TEST REPORT

Report No.:	8434EU121301W
Applicant:	Dongguan Modu Acoustics Technology Co., Ltd.
Address:	No.2, No.67 Liantang Road, Jinlong Industrial Zone, Sanzhong Village, Qingxi Town, Dongguan City, China
Product Name:	Bluetooth headphones
Model No.:	MD112
Trademark:	N/A
Test Standard(s):	ETSI EN 300 328 V2.2.2 (2019-07)
Test Result:	Pass
Date of Receipt:	Aug. 13, 2026
Test Date:	Aug. 14, 2026 - Aug. 25, 2026
Date of Issue:	Aug. 28, 2026

ISSUED BY:

SHENZHEN EU TESTING LABORATORY LIMITED

SHENZHEN EU TESTING LABORATORY LIMITED APPROVED

Prepared by:

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Revision Record

Report Version	Issued Date	Description	Status
V0	Aug. 28, 2026	Original	Valid

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2 General Information

2.1 Applicant Information

Applicant	Dongguan Modu Acoustics Technology Co., Ltd.
Address	No.2, No.67 Liantang Road, Jinlong Industrial Zone, Sanzhong Village, Qingxi Town, Dongguan City, China

2.2 Manufacturer Information

Manufacturer	Dongguan Modu Acoustics Technology Co., Ltd.
Address	No.2, No.67 Liantang Road, Jinlong Industrial Zone, Sanzhong Village, Qingxi Town, Dongguan City, China

2.3 Factory Information

Factory	Dongguan Modu Acoustics Technology Co., Ltd.
Address	No.2, No.67 Liantang Road, Jinlong Industrial Zone, Sanzhong Village, Qingxi Town, Dongguan City, China

2.4 General Description of E.U.T.

Product Name	Bluetooth headphones
Model No. Under Test	MD112
List Model No.	N/A
Description of Model differentiation	N/A
Rating(s)	Input: 5VDC, 400mA Battery Capacity (for charging base): 3.7VDC, 400mAh, 1.48Wh Battery Capacity (for earbud):3.7VDC, 40mAh, 0.148Wh
Test Sample No.	8434EU121301W-1/2(Normal),8434EU121301W-2/2(Engineering)
Hardware Version	V1
Software Version	V1
Remark	For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.5 Technical Information of E.U.T.

Network and Wireless Connectivity	Bluetooth (BDR+EDR)

The requirement for the following technical information of the EUT was tested in this report:

Operating Frequency	2402MHz to 2480MHz
Modulation Type	GFSK, π/4 DQPSK, 8DPSK
Number of Channels	79
Antenna Type	Ceramic Antenna
Antenna Gain(Peak)	2.50 dBi
RF Output Power (EIRP)	2.32 dBm Max.
Receiver Category	2
Remark	The above information are declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant.

All channels were listed on the following table:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	-	-

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3 Test Summary

3.1 Test Standard

The tests were performed according to following standards:

ETSI EN 300 328 V2.2.2 (2019-07): Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum

Remark:

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

3.2 Test Verdict

Test Items	Standard	Method	Requirement	Results
RF Power	ETSI EN 300 328 V2.2.2 (2019-07)	Clause 5.4.2.2.1	Clause 4.3.1.2.1	Pass
Accumulated Transmit Time, Frequency Occupation and Hopping Sequence	ETSI EN 300 328 V2.2.2 (2019-07)	Clause 5.4.4.2.1	Clause 4.3.1.4.1	Pass
Hopping Frequency Separation	ETSI EN 300 328 V2.2.2 (2019-07)	Clause 5.4.5.2.1	Clause 4.3.1.5.1	Pass
Occupied Channel Bandwidth	ETSI EN 300 328 V2.2.2 (2019-07)	Clause 5.4.7.2.1	Clause 4.3.1.8.1	Pass
Transmitter unwanted emissions in the out-of-band domain	ETSI EN 300 328 V2.2.2 (2019-07)	Clause 5.4.8.2.1	Clause 4.3.1.9.1	Pass
Transmitter unwanted emissions in the spurious domain, conducted	ETSI EN 300 328 V2.2.2 (2019-07)	Clause 5.4.9.2.1	Clause 4.3.1.10.1	Pass
Receiver spurious emissions, conducted	ETSI EN 300 328 V2.2.2 (2019-07)	Clause 5.4.10.2.1	Clause 4.3.1.11.1	Pass
Receiver Blocking	ETSI EN 300 328 V2.2.2 (2019-07)	Clause 5.4.11.2.1	Clause 4.3.1.12.1	Pass
Note: (1) “N/A” denotes test is not applicable in this Test Report.				

3.3 Test Laboratory

Test Laboratory	Shenzhen EU Testing Laboratory Limited
Address	3F, Building 4 and 101, Building B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China

4 Test Configuration

4.1 Test Environment

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	30% to 60%	
Atmospheric Pressure	86 kPa to 106 kPa	
Temperature	NT (Normal Temperature)	+15℃ to +35℃
Working Voltage of the EUT	NV (Normal Voltage)	3.7VDC battery inside

4.2 Test Equipment

RF Power
Accumulated Transmit Time, Frequency Occupation and Hopping Sequence
Hopping Frequency Separation
Occupied Channel Bandwidth
Transmitter unwanted emissions in the out-of-band domain
Transmitter unwanted emissions in the spurious domain, conducted
Receiver spurious emissions, conducted
Receiver Blocking

Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
MXA Signal Analyzer	Agilent	N9020A	EE-011	2026-04-07	2027-04-06
MXG RF Vector Signal Generator	Agilent	N5182A	EE-012	2026-04-07	2027-04-06
MIMO Power Measurement Module	TSTPASS	TSPS 2023R	EE-016	2026-04-11	2027-04-10
MXG RF Analog Signal Generator	Agilent	N5181A	EE-406	2026-02-13	2027-02-12
Power Meter	Anritsu	ML2495A	EE-416	2026-02-13	2027-02-12
Constant Temperature Humidity Chamber	Guangxin	GXP-401	ES-002	2026-07-14	2027-07-13
RF Test Software	TSTPASS	TS32893 V2.0	EE-017	/	/
Electric and Magnetic Field Probe - Analyzer	Narda	EHP-200A	EE-405	2026-02-13	2027-02-12
Band-Stop Filter	COM-MW	ZBSF8-L2400-2483.5-1016	EE-025	2026-04-07	2027-04-06
Band-Stop Filter	COM-MW	K6-5150-5850-250S5020-001	EE-026	2026-04-07	2027-04-06
Filter	COM-MW	ZHPF6-M3000-18000-174	EE-027	2026-04-07	2027-04-06

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Filter	COM-MW	ZHPF6-M1300-18000-5356	EE-028	2026-04-07	2027-04-06
Wideband Radio Communication Tester	ROHDE & SCHWARZ	CMW500	EE-030	2026-04-07	2027-04-06

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4.3 Description of Support Unit

No.	Title	Manufacturer	Model No.	Serial No.
1	Pink Notebook	ADOL	ADOL13F	EMC-PJ-030

4.4 Test Mode

No.	Test Modes	Description
TM1	TX-GFSK (Non-Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
TM2	TX-π/4DQPSK (Non-Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with π/4DQPSK modulation.
TM3	TX-8DPSK (Non-Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
TM4	TX-GFSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation.
TM5	TX-π/4DQPSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with π/4DQPSK modulation.
TM6	TX-8DPSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.
TM7	Receiving mode	Keep the EUT in receiving mode.
TM8	Normal mode	Keep the EUT in normal communication with pairing device mode.

4.5 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test Item	Measurement Uncertainty
RF output power, conducted	1.07 dB
Occupied Channel Bandwidth	69 kHz
Unwanted Emissions, conducted	2.73 dB

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5 Radio Spectrum Matter Test Results (RF)

5.1 RF Power

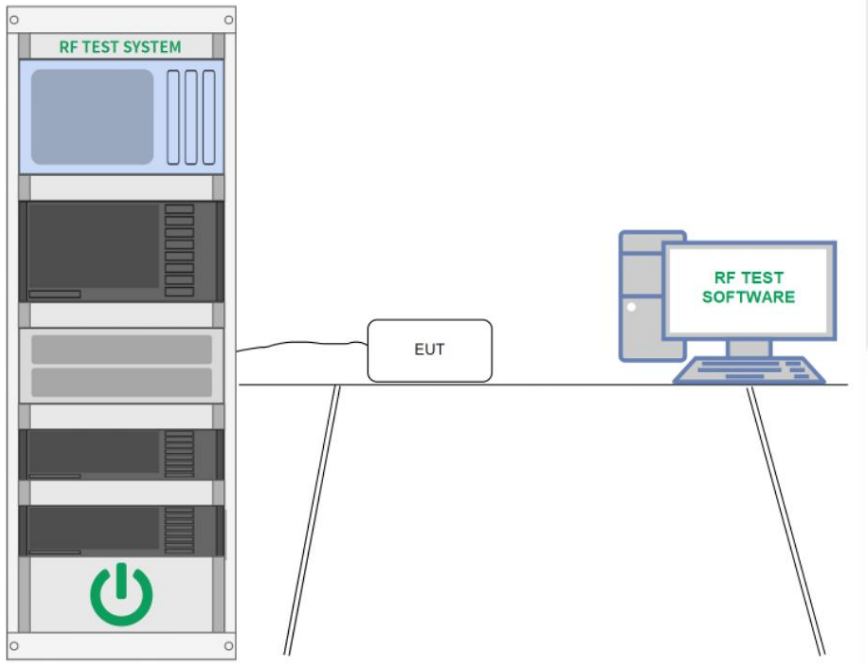
5.1.1 Test Specification

Test Requirement:	Clause 4.3.1.2.1
Test Limit:	<=20dBm
Test Method:	Clause 5.4.2.2.1
Procedure:	1. Run a test program to control EUT transmitting at specific channel. 2. Connect the power sensor to the transmit port 3. Power Meter was setting as below: Sample speed: 1 MS/s Number of bursts: at least 10bursts Detector: RMS 4. A power meter was used to read the response of the power sensor 5. Define Start time and Stop time of a burst by 30dB below the highest value of the stores samples. 6. Find the highest burst value 7. Record the power levelEIRP = antenna gain + power level of step 7.

5.1.2 E.U.T. Operation

Pre test mode:	TM4, TM5, TM6
Final test mode:	TM4, TM5, TM6

5.1.3 Test Setup Diagram



5.1.4 Test Data

PASS.

Please refer to Annex D for details.

5.2 Accumulated Transmit Time, Frequency Occupation and Hopping Sequence

5.2.1 Test Specification

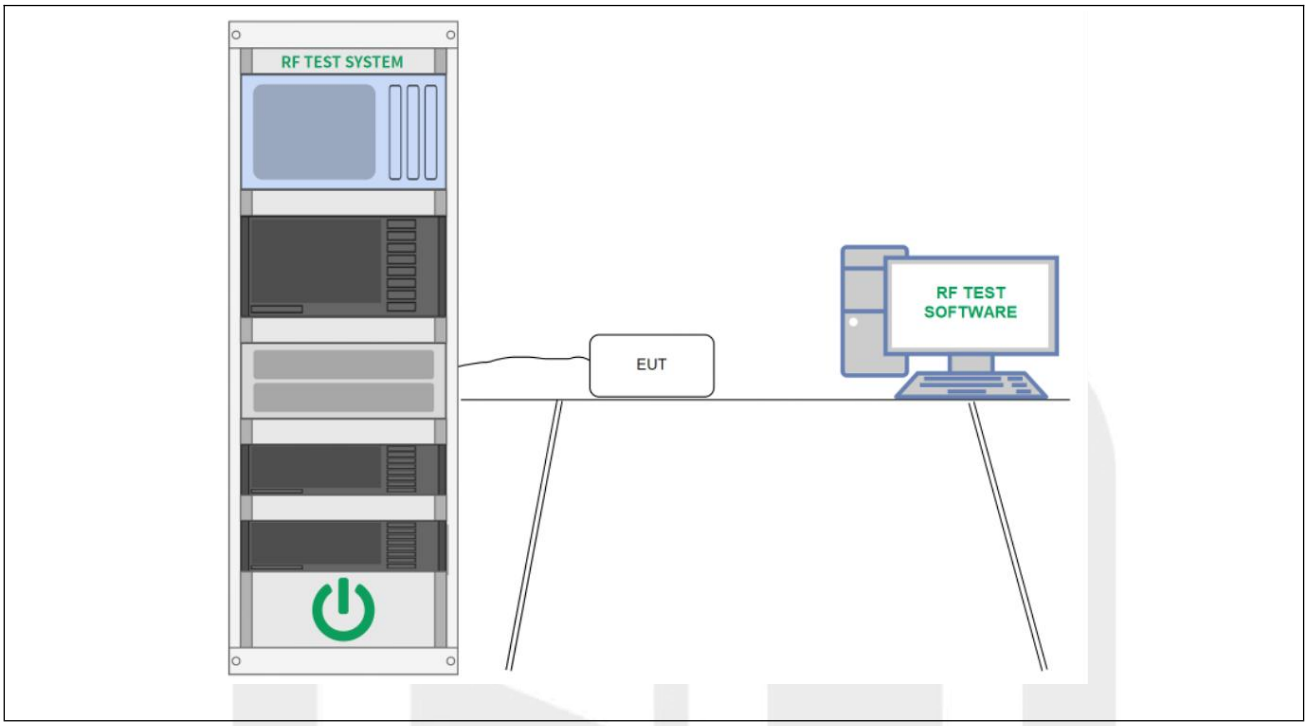
Test Requirement:	Clause 4.3.1.4.1
Test Limit:	The Accumulated Transmit Time on any hopping frequency shall not be greater than 15 ms within any observation period of 15 ms multiplied by the minimum number of hopping frequencies (N) that have to be used. In order for the FHSS equipment to comply with the Frequency Occupation requirement, it shall meet either of the following two options: Option 1: Each hopping frequency of the Hopping Sequence shall be occupied at least once within a period not exceeding four times the product of the dwell time and the number of hopping frequencies in use. Option 2: The probability that each hopping frequency is occupied shall be between ((1 / U) 25 %) and 77 % where U is the number of hopping frequencies in use. The Hopping Sequence(s) shall contain at least N hopping frequencies where N is either 5 or the result of 15 MHz divided by the minimum Hopping Frequency Separation in MHz, whichever is the greater. NOTE: See also clause 4.3.1.5.3.1 for the Hopping Frequency Separation applicable to non-adaptive FHSS equipment. Non-Adaptive FHSS equipment, may blacklist some but not all hopping frequencies. From the N hopping frequencies defined above, the equipment shall transmit on at least one hopping frequency. For the blacklisted frequencies, the equipment has to occupy these frequencies for the duration of the average dwell time (see also definition for blacklisted frequency in clause 3.1).
Test Method:	Clause 5.4.4.2.1
Procedure:	The output of the transmitter shall be connected to a spectrum analyser or equivalent. The analyser shall be set as follows: - Centre Frequency: Equal to the hopping frequency being investigated - Frequency Span: 0 Hz - RBW: ~ 50 % of the Occupied Channel Bandwidth - VBW: ≥ RBW - Detector Mode: RMS - Sweep time: Equal to the applicable observation period (see clause 4.3.1.4.3.1 or clause 4.3.1.4.3.2) - Number of sweep points: 30 000 - Trace mode: Clear/Write - Trigger: Free Run Make the following changes on the analyser: - Start Frequency: 2 400 MHz - Stop Frequency: 2 483,5 MHz - RBW: ~ 50 % of the Occupied Channel Bandwidth (single hopping frequency) - VBW: ≥ RBW - Detector Mode:Peak - Sweep time: 1 s; this setting may result in long measuring times. To avoid such long measuring times, an FFT analyser may be used Number of sweep points: ~ 400 / Occupied Channel Bandwidth (MHz); the number of sweep points may need to be further increased in case of overlapping channels - Trace mode: Max Hold - Trigger: Free Run

5.2.2 E.U.T. Operation

Pre test mode:	TM4, TM5, TM6
Final test mode:	TM4, TM5, TM6

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5.2.3 Test Setup Diagram



5.2.4 Test Data

PASS.

Please refer to Annex D for details.

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5.3 Hopping Frequency Separation

5.3.1 Test Specification

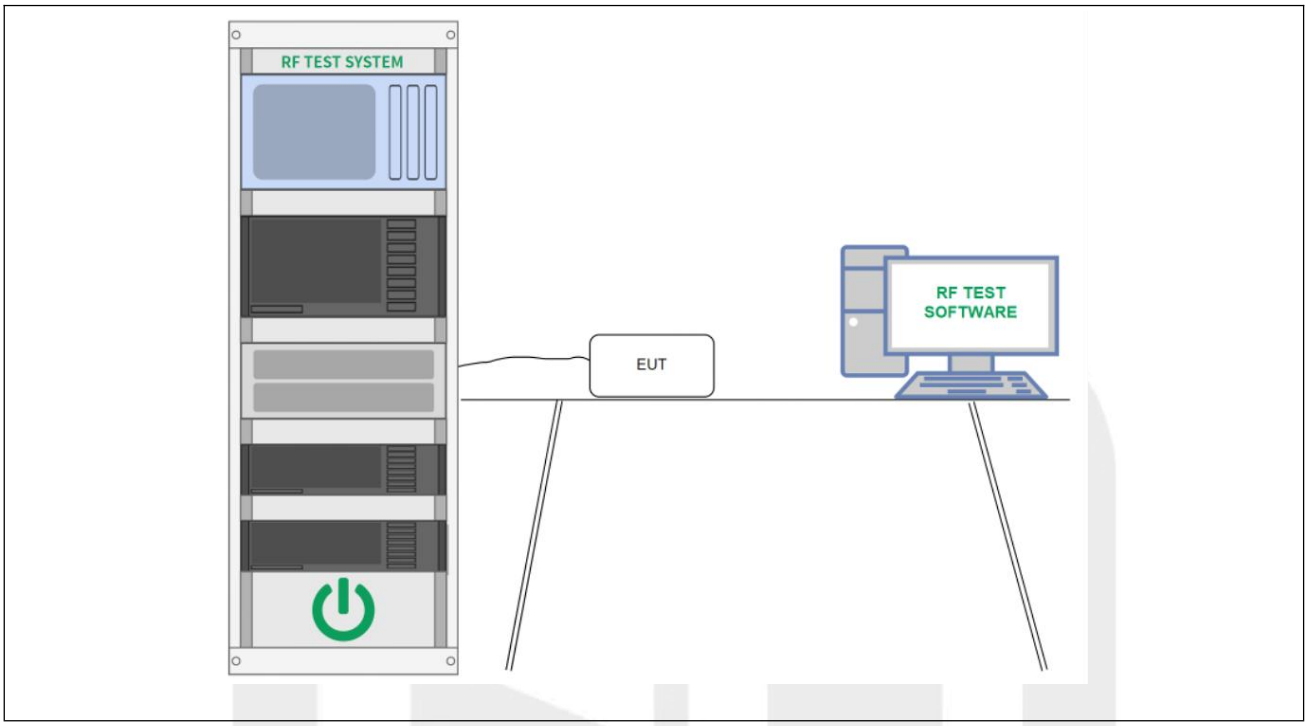
Test Requirement:	Clause 4.3.1.5.1
Test Limit:	For non-adaptive FHSS equipment, the Hopping Frequency Separation shall be equal to or greater than the Occupied Channel Bandwidth (see clause 4.3.1.8), with a minimum separation of 100 kHz. For FHSS equipment with a maximum declared RF Output power level of less than 10 dBm e.i.r.p. or for non-adaptive FHSS equipment operating in a mode where the RF Output power is less than 10 dBm e.i.r.p., the Hopping Frequency Separation shall be equal to or greater than 100 kHz.
Test Method:	Clause 5.4.5.2.1
Procedure:	The test procedure shall be as follows: Step 1: • The output of the transmitter shall be connected to a spectrum analyzer or equivalent. • The analyzer shall be set as follows: - Centre Frequency: Centre of the two adjacent hopping frequencies - Frequency Span: Sufficient to see the complete power envelope of both hopping frequencies - RBW: 1 % of the span(30KHz) - VBW: 3 × RBW(100KHz) - Detector Mode: Max Peak - Trace Mode: Max Hold - Sweep Time: Auto - Step 2: • Wait for the trace to stabilize.Use the marker-delta function to determine the Hopping Frequency Separation between the center of the two adjacent hopping frequencies (e.g. by identifying peaks or notches at the centre of the power envelope for the two adjacent signals). This value shall be compared with the limits defined in clause 4.3.1.5.3 and shall be recorded in the test report.

5.3.2 E.U.T. Operation

Pre test mode:	TM4, TM5, TM6
Final test mode:	TM4, TM5, TM6

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5.3.3 Test Setup Diagram



5.3.4 Test Data

PASS.

Please refer to Annex D for details.

5.4 Occupied Channel Bandwidth

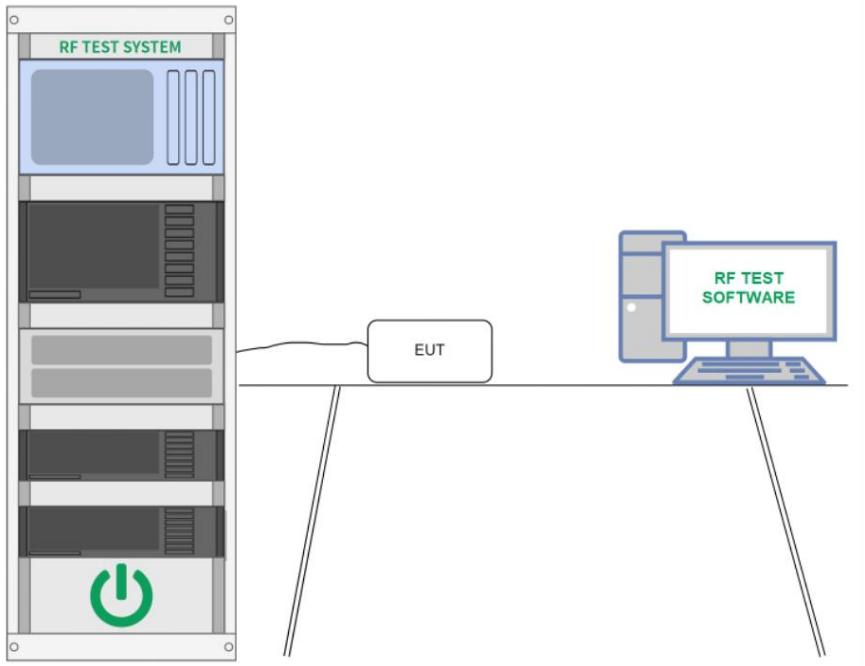
5.4.1 Test Specification

Test Requirement:	Clause 4.3.1.8.1
Test Limit:	Clause 4.3.1.8.3
Test Method:	Clause 5.4.7.2.1
Procedure:	The measurement procedure shall be as follows: Step 1: Connect the UUT to the spectrum analyser and use the following settings: Centre Frequency: The centre frequency of the channel under test Resolution BW: ~ 1 % of the span without going below 1 % Video BW: 3 × RBW Frequency Span: 2 × Nominal Channel Bandwidth Detector Mode: RMS Trace Mode: Max Hold Sweep time: 1 s Step 2: Wait for the trace to stabilize. Find the peak value of the trace and place the analyser marker on this peak. Step 3: Use the 99 % bandwidth function of the spectrum analyser to measure the Occupied Channel Bandwidth of the UUT. This value shall be recorded. Make sure that the power envelope is sufficiently above the noise floor of the analyser to avoid the noise signals left and right from the power envelope being taken into account by this measurement.

5.4.2 E.U.T. Operation

Pre test mode:	TM1, TM2, TM3
Final test mode:	TM1, TM2, TM3

5.4.3 Test Setup Diagram



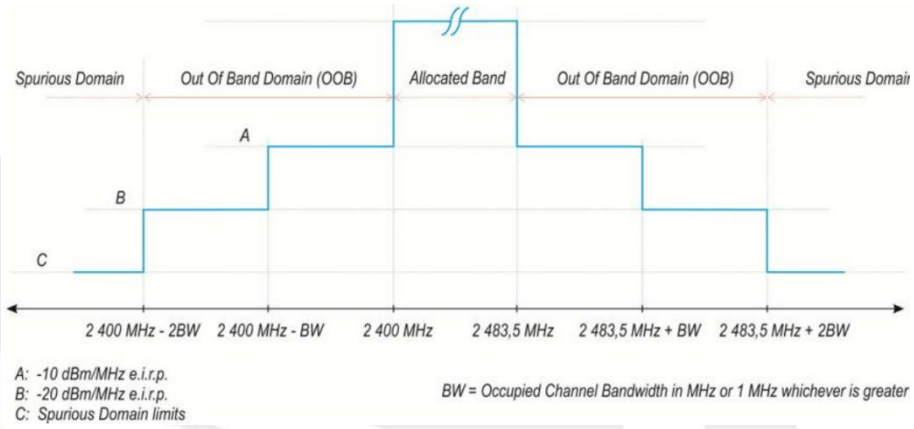
5.4.4 Test Data

PASS.

Please refer to Annex D for details.

5.5 Transmitter unwanted emissions in the out-of-band domain

5.5.1 Test Specification

Test Requirement:	Clause 4.3.1.9.1
Test Limit:	Clause 4.3.1.9.3 
Test Method:	Clause 5.4.8.2.1
Procedure:	The Out-of-band emissions within the different horizontal segments of the mask provided in figure 1 and figure 3 shall be measured using the procedure in step 1 to step 6 below. This method assumes the spectrum analyser is equipped with the Time Domain Power option. Step 1: Connect the UUT to the spectrum analyser and use the following settings: - Measurement Mode: Time Domain Power - Centre Frequency: 2 484 MHz - Span: ZeroSpan - Resolution BW: 1 MHz - Filter mode: Channel filter - VideoBW: 3MHz - Detector Mode: RMS - TraceMode: MaxHold - Sweep Mode: Single Sweep - Sweep Points: Sweep time [µs] / (1 µs) with a maximum of 30 000 - Trigger Mode: Video - Sweep Time: > 120 % of the duration of the longest burst detected during the measurement of the RF Output Power Step 2 (segment 2 483,5 MHz to 2 483,5 MHz + BW): The measurement shall be performed and repeated while the trigger level is increased until no triggering takes place. For FHSS equipment operating in a normal hopping mode, the different hops will result in signal bursts with different power levels. In this case the burst with the highest power level shall be selected. Set a window (start and stop lines) to match with the start and end of the burst and in which the RMS power shall be measured using the Time Domain Power function. Select RMS power to be measured within the selected window and note the result which is the RMS power within this 1 MHz segment (2 483,5 MHz to 2 484,5 MHz). Compare this value with the applicable limit provided by the mask. Increase the centre frequency in steps of 1 MHz and repeat this measurement for every 1 MHz segment within the range 2 483,5 MHz to 2 483,5 MHz + BW. The centre frequency of the last 1 MHz segment shall be set to 2 483,5 MHz + BW - 0,5 MHz (which means this may partly overlap with the previous 1 MHz segment). Step 3 (segment 2 483,5 MHz + BW to 2 483,5 MHz + 2 BW):

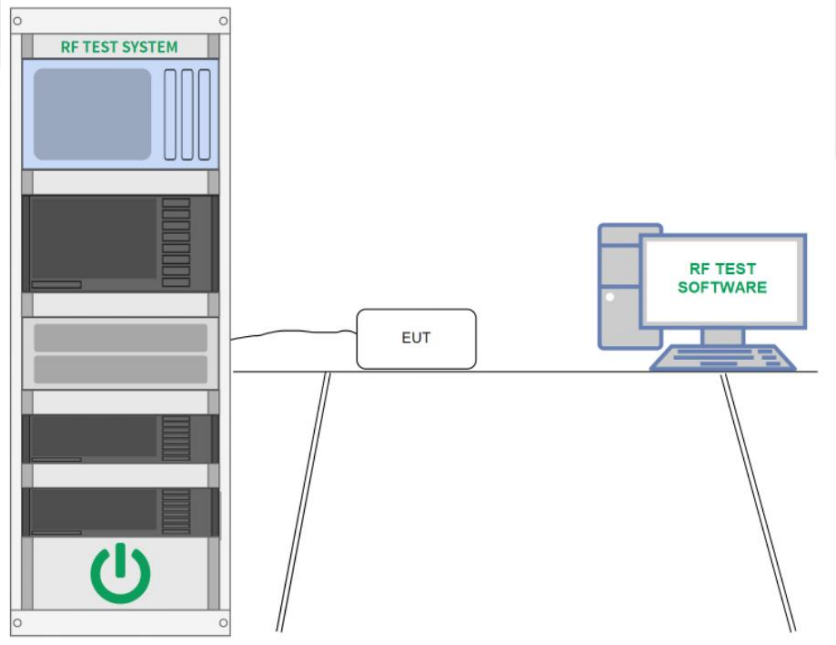
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	Change the centre frequency of the analyser to 2 484 MHz + BW and perform the measurement for the first 1 MHz segment within range 2 483,5 MHz + BW to 2 483,5 MHz + 2 BW. Increase the centre frequency in 1 MHz steps and repeat the measurements to cover this whole range. The centre frequency of the last 1 MHz segment shall be set to 2 483,5 MHz + 2 BW - 0,5 MHz (which means this may partly overlap with the previous 1 MHz segment). Step 4 (segment 2 400 MHz - BWto 2 400 MHz): Change the centre frequency of the analyser to 2 399,5 MHz and perform the measurement for the first 1 MHz segment within range 2 400 MHz - BW to 2 400 MHz Reduce the centre frequency in 1 MHz steps and repeat the measurements to cover this whole range. The centre frequency of the last 1 MHz segment shall be set to 2 400 MHz - BW + 0,5 MHz (which means this may partly overlap with the previous 1 MHz segment). Step 5 (segment 2 400MHz - 2 BWto 2 400 MHz - BW): Change the centre frequency of the analyser to 2 399,5 MHz - BW and perform the measurement for the first 1 MHz segment within range 2 400 MHz - 2 BW to 2 400 MHz - BW. Reduce the centre frequency in 1 MHz steps and repeat the measurements to cover this whole range. The centre frequency of the last 1 MHz segment shall be set to 2 400 MHz - 2 BW + 0,5 MHz (which means this may partly overlap with the previous 1 MHz segment). Step 6: In case of conducted measurements on equipment with a single transmit chain, the declared antenna assembly gain G in dBi shall be added to the results for each of the 1 MHz segments and compared with the limits provided by the mask given in figure 1 or figure 3. If more than one antenna assembly is intended for this power setting, the antenna with the highest gain shall be considered.

5.5.2 E.U.T. Operation

Pre test mode:	TM4, TM5, TM6
Final test mode:	TM4, TM5, TM6

5.5.3 Test Setup Diagram



5.5.4 Test Data

PASS.

Please refer to Annex D for details.

5.6 Transmitter unwanted emissions in the spurious domain, conducted

5.6.1 Test Specification

Test Requirement:	Clause 4.3.1.10.1
Test Limit:	Clause 4.3.1.10.3

Frequency range	Maximum power	Bandwidth
30 MHz to 47 MHz	-36 dBm	100 kHz
47 MHz to 74 MHz	-54 dBm	100 kHz
74 MHz to 87,5 MHz	-36 dBm	100 kHz
87,5 MHz to 118 MHz	-54 dBm	100 kHz
118 MHz to 174 MHz	-36 dBm	100 kHz
174 MHz to 230 MHz	-54 dBm	100 kHz
230 MHz to 470 MHz	-36 dBm	100 kHz
470 MHz to 862 MHz	-54 dBm	100 kHz
862 MHz to 1 GHz	-36 dBm	100 kHz
1 GHz to 12,75 GHz	-30 dBm	1 MHz

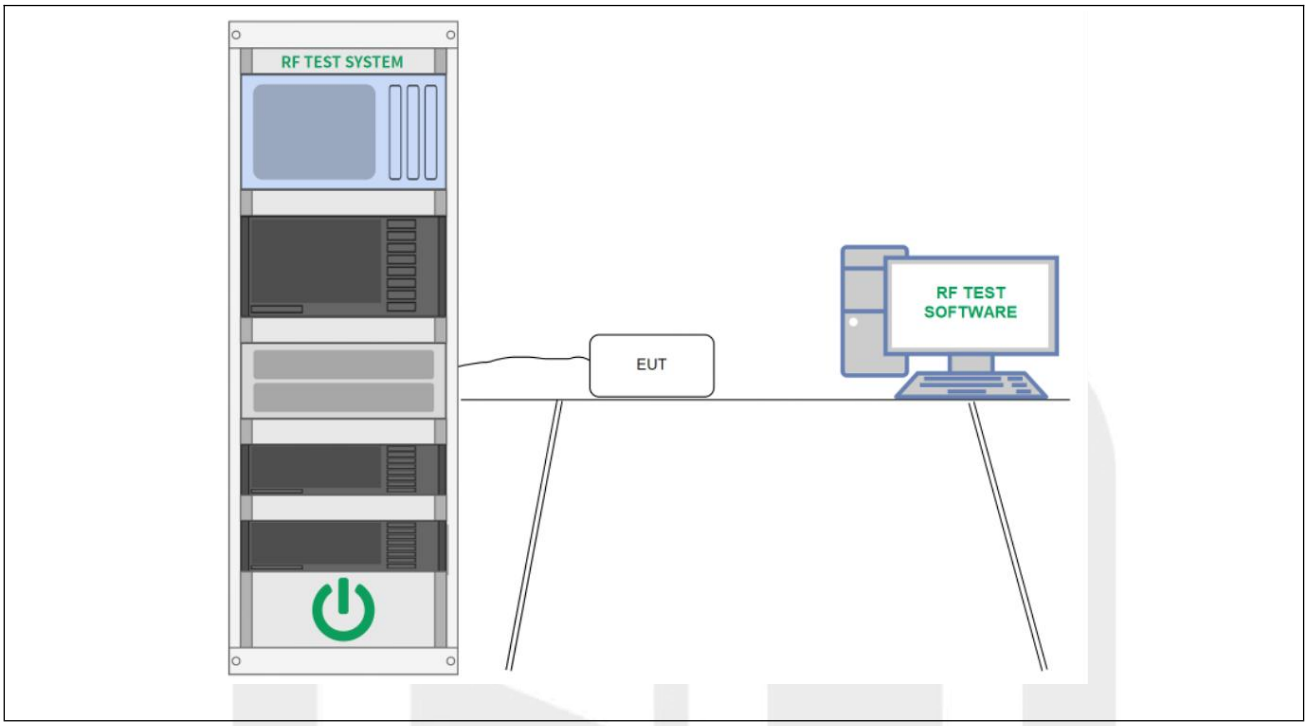
Test Method:	Clause 5.4.9.2.1
Procedure:	The procedure in step 1 to step 4 below shall be used to accurately measure the individual unwanted emissions identified during the pre-scan measurements above. This method assumes the spectrum analyser has a Time Domain Power function. Step 1: The level of the emissions shall be measured using the following spectrum analyser settings: Measurement Mode: Time Domain Power Centre Frequency: Frequency of the emission identified during the pre-scan Resolution Bandwidth: 100 kHz (< 1 GHz) / 1 MHz (> 1 GHz) Video Bandwidth: 300 kHz (< 1 GHz) / 3 MHz (> 1 GHz) Frequency Span: Zero Span Sweep Mode: Single Sweep Sweep Time: > 120 % of the duration of the longest burst detected during the measurement of the RF Output Power Sweep Points: Sweep time [µs] / (1 µs) with a maximum of 30 000 Trigger Mode: Video (burst signals) or Manual (continuous signals) Detector Mode: RMS Step 2: Set a window where the start and stop indicators match the start and end of the burst with the highest level and record the value of the power measured within this window. If the spurious emission to be measured is a continuous transmission, the measurement window shall be set to match the start and stop times of the sweep. Step 3: In case of conducted measurements on smart antenna systems (equipment with multiple transmit chains), step 2 needs to be repeated for each of the active transmit chains (Ach). Sum the measured power (within the observed window) for each of the active transmit chains. Step 4: The value defined in step 3 shall be compared to the limits defined in table 4 or table 12.

5.6.2 E.U.T. Operation

Pre test mode:	TM1, TM2, TM3
Final test mode:	TM1, TM2, TM3

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5.6.3 Test Setup Diagram



5.6.4 Test Data

PASS.

Please refer to Annex D for details.

5.7 Receiver spurious emissions, conducted

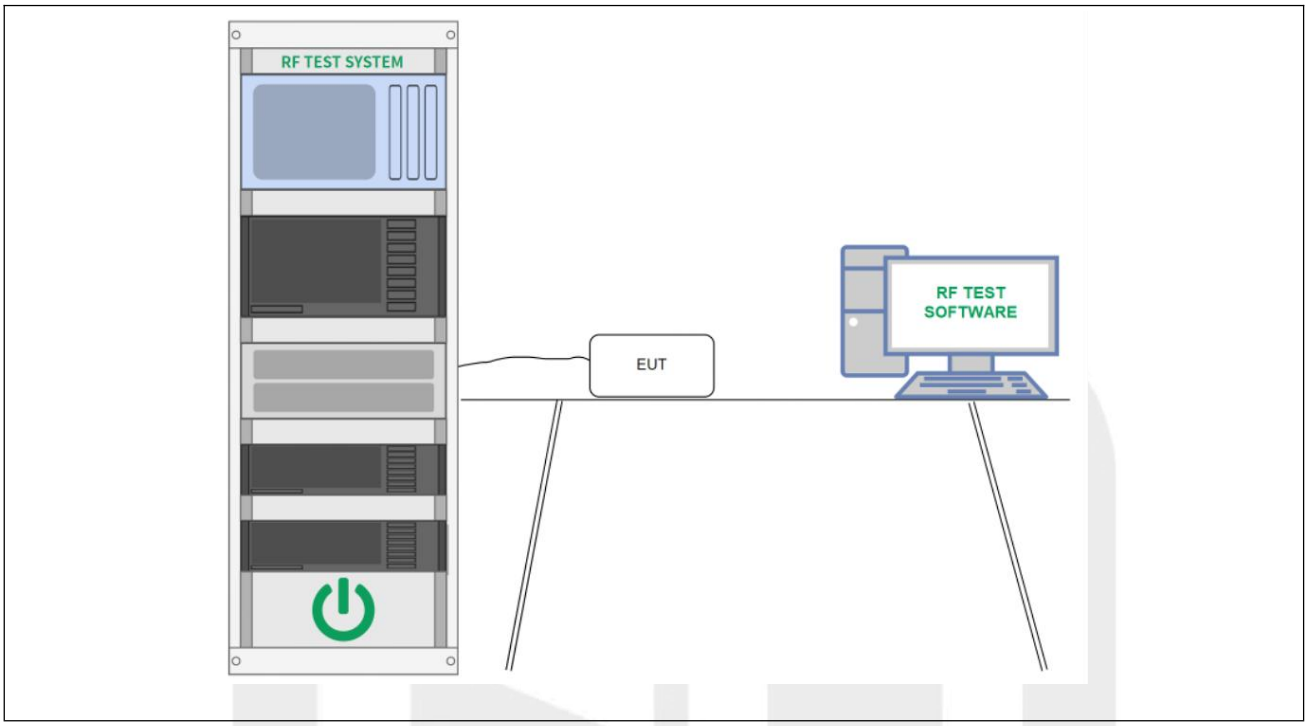
5.7.1 Test Specification

Test Requirement:	Clause 4.3.1.11.1
Test Limit:	Clause 4.3.1.11.3
Test Method:	Clause 5.4.10.2.1
Procedure:	The procedure in step 1 to step 4 below shall be used to accurately measure the individual unwanted emissions identified during the pre-scan measurements above. This method assumes the spectrum analyser has a Time Domain Power function. Step 1: The level of the emissions shall be measured using the following spectrum analyser settings: Measurement Mode: Time Domain Power Centre Frequency: Frequency of the emission identified during the pre-scan Resolution Bandwidth: 100 kHz (< 1 GHz) / 1 MHz (> 1 GHz) Video Bandwidth: 300 kHz (< 1 GHz) / 3 MHz (> 1 GHz) Frequency Span: Zero Span Sweep mode: Single Sweep Sweep time: 30 ms Sweep points: 30 000 Trigger: Video (for burst signals) or Manual (for continuous signals) Detector: RMS Step 2: Set a window where the start and stop indicators match the start and end of the burst with the highest level and record the value of the power measured within this window. If the spurious emission to be measured is a continuous transmission, the measurement window shall be set to the start and stop times of the sweep. Step 3: In case of conducted measurements on smart antenna systems (equipment with multiple receive chains), step 2 needs to be repeated for each of the active receive chains Ach. Sum the measured power (within the observed window) for each of the active receive chains. Step 4: The value defined in step 3 shall be compared to the limits defined in table 5 and table 13.

5.7.2 E.U.T. Operation

Pre test mode:	TM7
Final test mode:	TM7

5.7.3 Test Setup Diagram



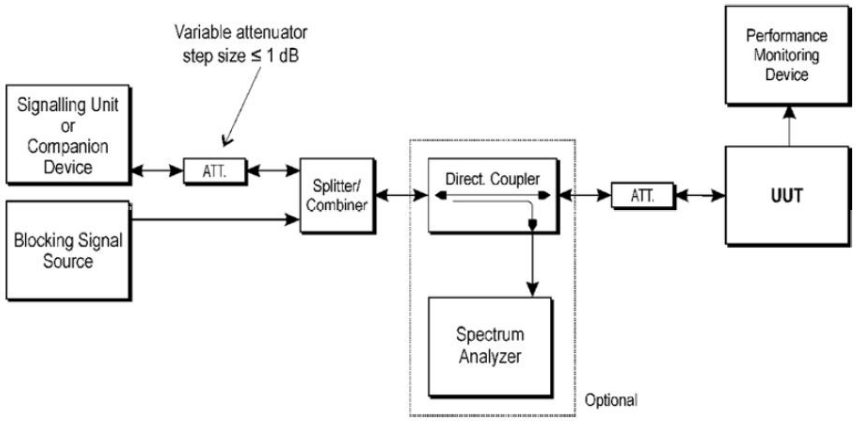
5.7.4 Test Data

PASS.

Please refer to Annex D for details.

5.8 Receiver Blocking

5.8.1 Test Specification

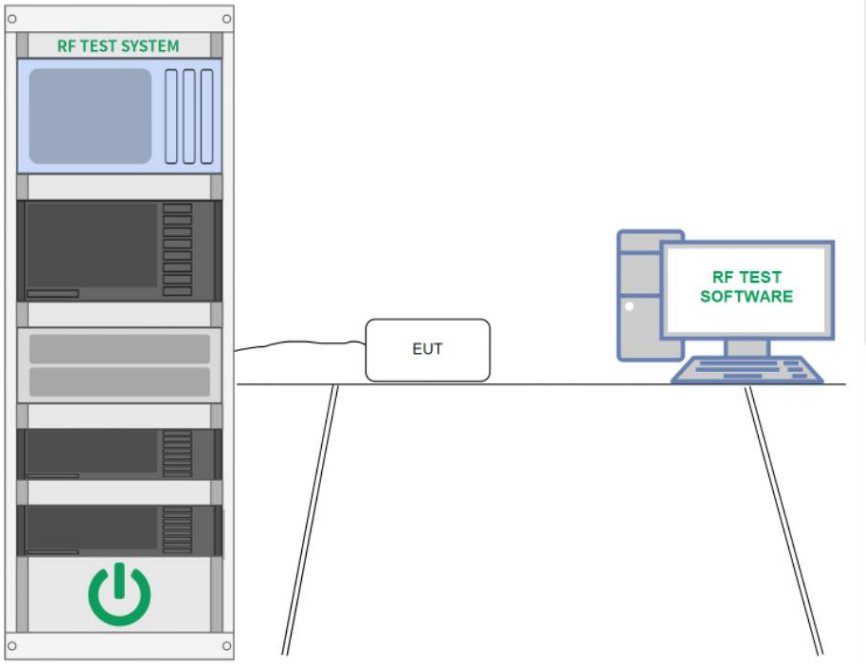
Test Requirement:	Clause 4.3.1.12.1
Test Limit:	Clause 4.3.1.12.4
Test Method:	Clause 5.4.11.2.1
Procedure:	For systems using multiple receive chains only one chain (antenna port) need to be tested. All other receiver inputs shall be terminated. Figure 6 shows the test set-up which can be used for performing the receiver blocking test.  **Figure 6: Test Set-up for receiver blocking** Step 1: For non-FHSS equipment, the UUT shall be set to the lowest operating channel on which the blocking test has to be performed (see clause 5.4.11.1). Step 2: The blocking signal generator is set to the first frequency as defined in the appropriate table corresponding to the receiver category and type of equipment. Step 3: With the blocking signal generator switched off, a communication link is established between the UUT and the associated companion device using the test setup shown in figure 6. Unless the option provided in note 2 of the applicable table referred to in clause 5.4.11.2.1 is used, the level of the wanted signal shall be set to the value provided in the table corresponding to the receiver category and type of equipment. The test procedure defined in clause 5.4.2, and more in particular clause 5.4.2.2.1.2, can be used to measure the (conducted) level of the wanted signal however no correction shall be made for antenna gain of the companion device (step 6 in clause 5.4.2.2.1.2 shall be ignored). This level may be measured directly at the output of the companion device and a correction is made for the coupling loss into the UUT. The actual level for the wanted signal shall be recorded in the test report. Step 4: The blocking signal at the UUT is set to the level provided in the table corresponding to the receiver category and type of equipment. If the performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 are met then proceed to step 6. Step 5: If the performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 is not met, step 3 and step 4 shall be repeated after that the frequency of the blocking signal set in step 2 has been increased with a value equal to the Occupied Channel Bandwidth except:

	- For the blocking frequency 2 380 MHz, where this frequency offset shall be less than or equal to 10 MHz. If this frequency offset is more than 7 MHz, the level of the wanted signal shall be increased by 3 dB. - For the blocking frequency 2 503,5 MHz, where this frequency offset shall be less than or equal to 10 MHz. If this frequency offset is more than 7 MHz, the level of the wanted signal shall be decreased by 3 dB. Step 6: Repeat step 4 and step 5 for each remaining combination of frequency and level for the blocking signal as provided in the table corresponding to the receiver category and type of equipment. Step 7: For non-FHSS equipment, repeat step 2 to step 6 with the UUT operating at the highest operating channel on which the blocking test has to be performed (see clause 5.4.11.1). Step 8: It shall be assessed and recorded in the test report whether the UUT complies with the Receiver Blocking requirement.

5.8.2 E.U.T. Operation

Pre test mode:	TM8
Final test mode:	TM8

5.8.3 Test Setup Diagram

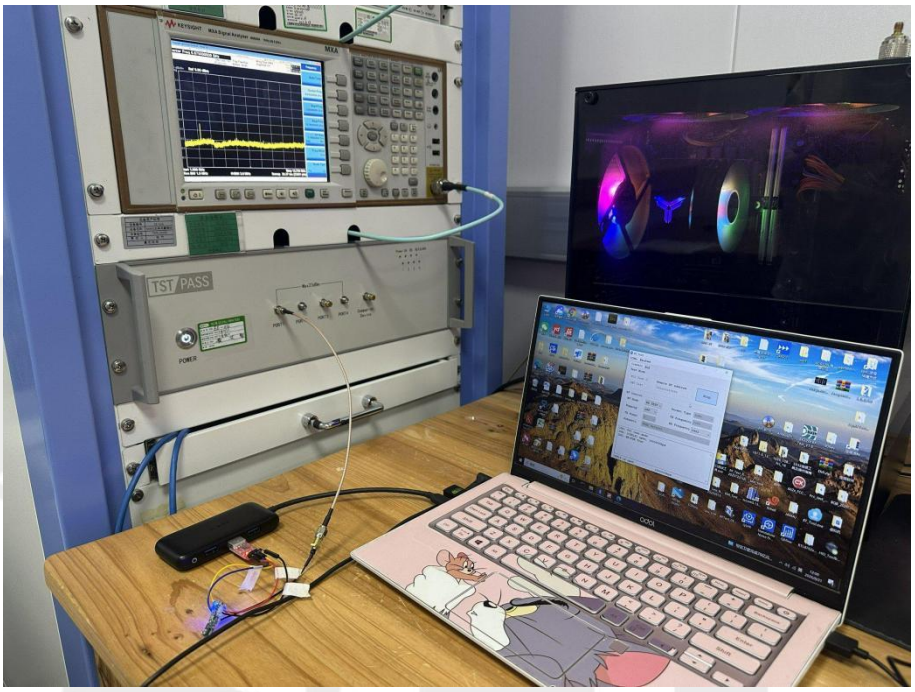


5.8.4 Test Data

PASS.

Please refer to Annex D for details.

ANNEX A TEST SETUP PHOTOS

PHOTO 1 RF Power Accumulated Transmit Time, Frequency Occupation and Hopping Sequence Hopping Frequency Separation Occupied Channel Bandwidth Transmitter unwanted emissions in the out-of-band domain Transmitter unwanted emissions in the spurious domain, conducted Receiver spurious emissions, conducted Receiver Blocking	

ANNEX B EXTERNAL PHOTOS

PHOTO 1	
PHOTO 2	

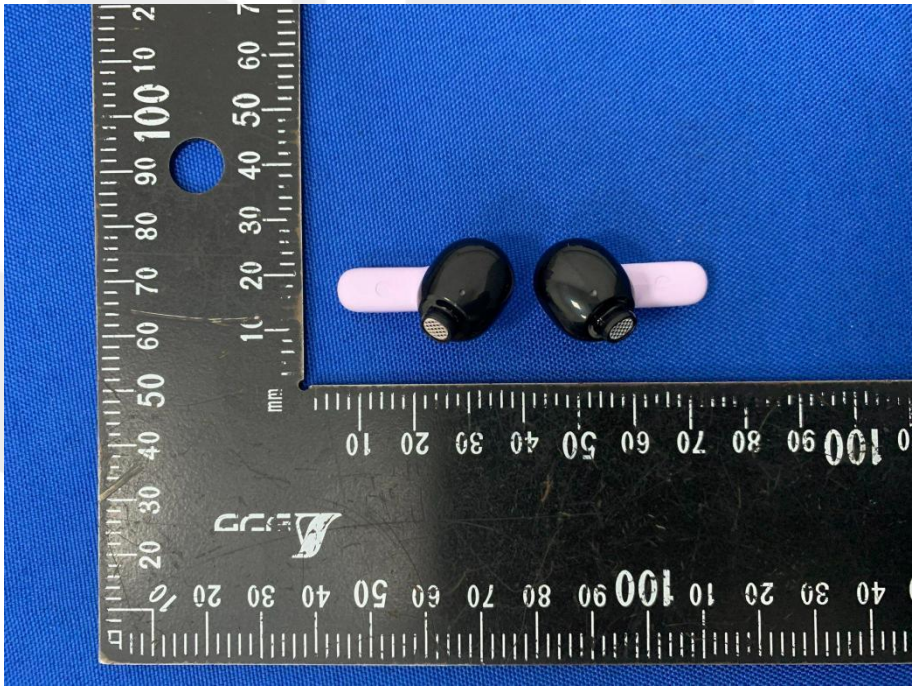
PHOTO 3	
PHOTO 4	

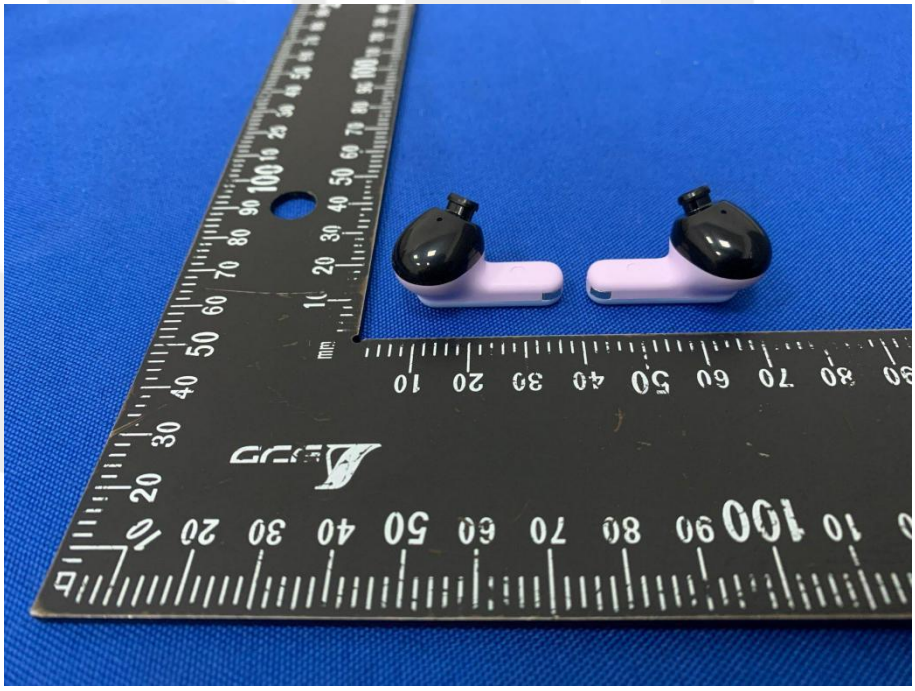
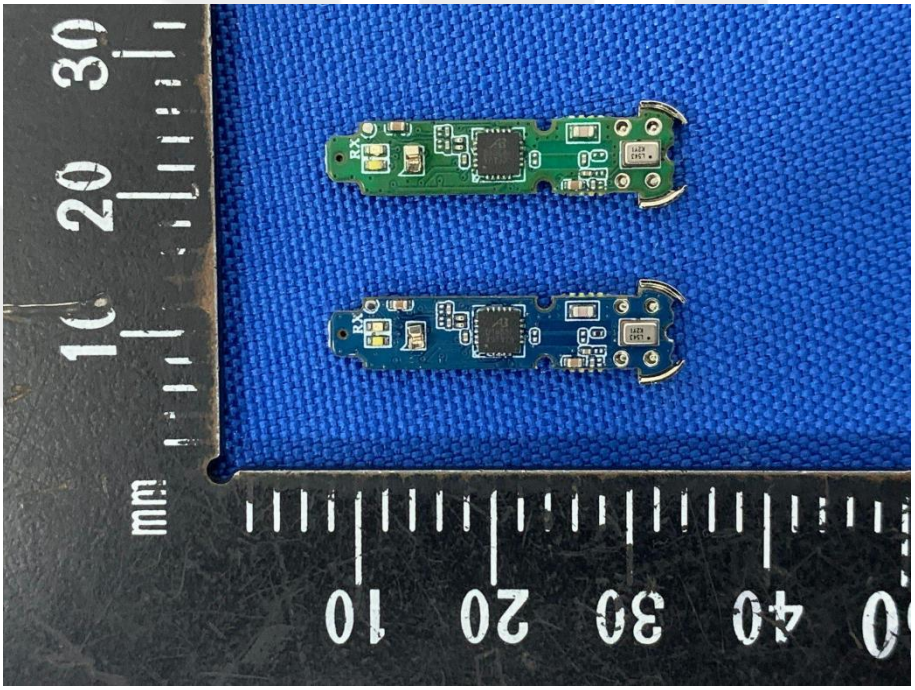
PHOTO 5	
PHOTO 6	

PHOTO 7	
PHOTO 8	

ANNEX C INTERNAL PHOTOS

PHOTO 1	
PHOTO 2	

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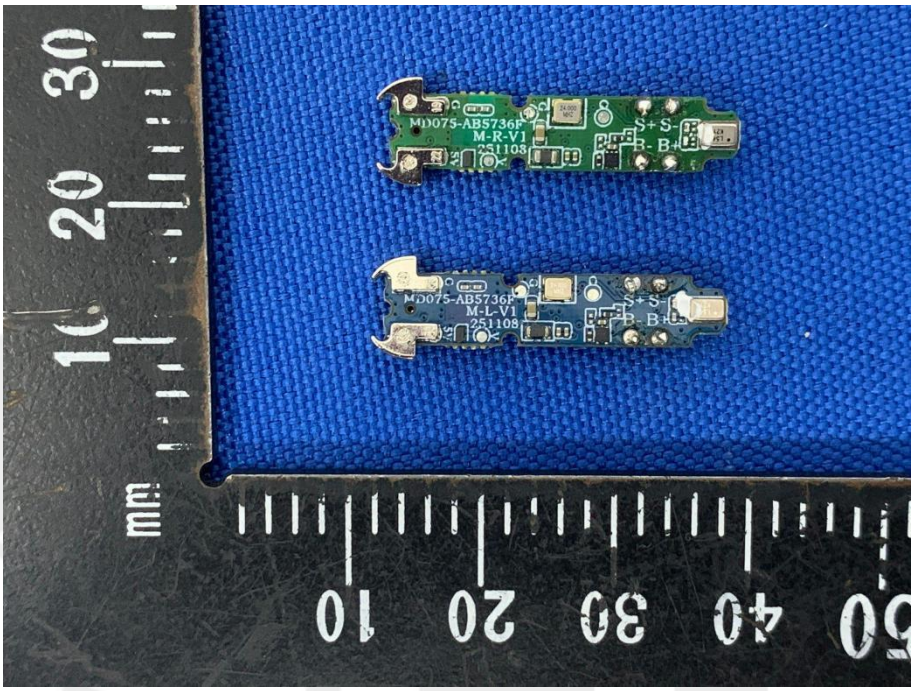
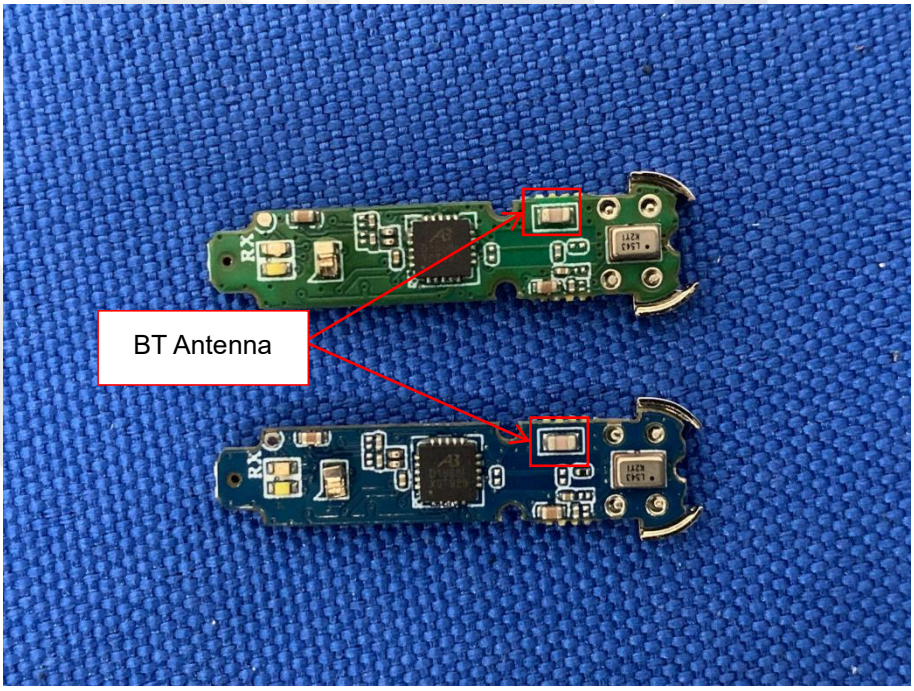
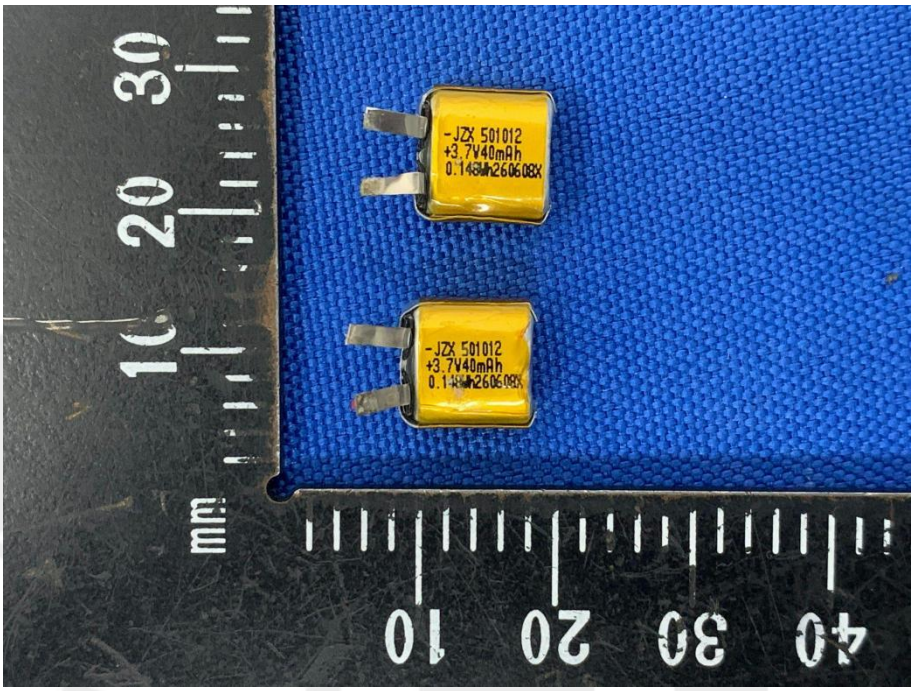
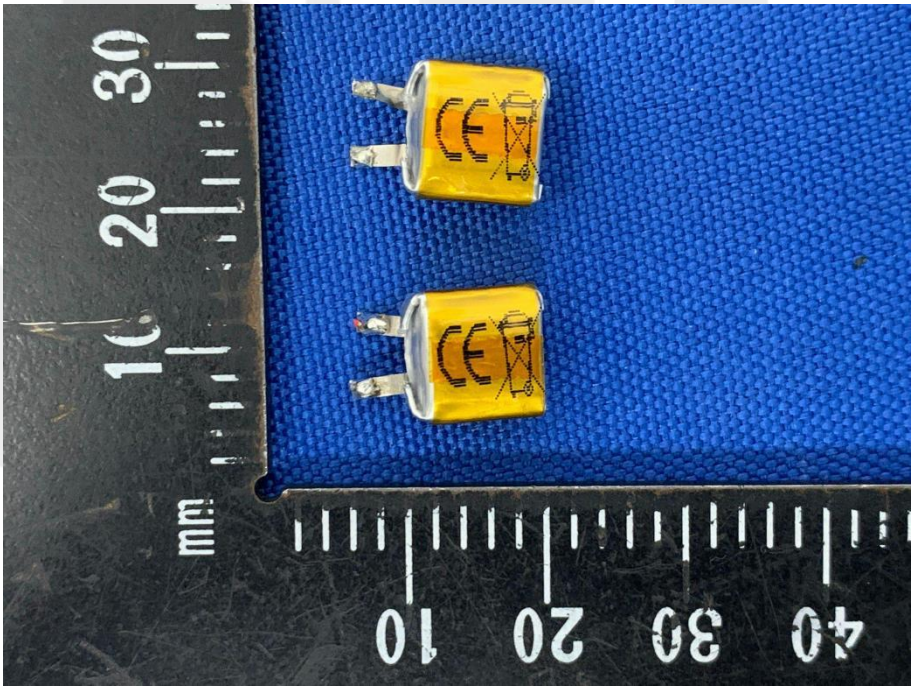
PHOTO 3	
PHOTO 4	

PHOTO 5	
PHOTO 6	

ANNEX D TEST DATA

1. RF Output Power, Duty Cycle, Tx-sequence, Tx-gap, Medium Utilization

1.1 Test Result

1.1.1 Power

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Gain (dBi)	Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
NTNV	GFSK	SISO	HOPP	DH1	1	2.50	-0.18	2.32	<=20	Pass
				DH3	1	2.50	-0.18	2.32	<=20	Pass
				DH5	1	2.50	-0.23	2.27	<=20	Pass
	π/4DQPSK	SISO	HOPP	2DH1	1	2.50	-1.43	1.07	<=20	Pass
				2DH3	1	2.50	-2.10	0.40	<=20	Pass
				2DH5	1	2.50	-2.12	0.38	<=20	Pass
	8DPSK	SISO	HOPP	3DH1	1	2.50	-1.43	1.07	<=20	Pass
				3DH3	1	2.50	-2.15	0.35	<=20	Pass
				3DH5	1	2.50	-0.63	1.87	<=20	Pass
HTNV	GFSK	SISO	HOPP	DH1	1	2.50	-0.18	2.32	<=20	Pass
				DH3	1	2.50	-0.20	2.30	<=20	Pass
				DH5	1	2.50	-0.22	2.28	<=20	Pass
	π/4DQPSK	SISO	HOPP	2DH1	1	2.50	-1.42	1.08	<=20	Pass
				2DH3	1	2.50	-2.11	0.39	<=20	Pass
				2DH5	1	2.50	-2.22	0.28	<=20	Pass
	8DPSK	SISO	HOPP	3DH1	1	2.50	-1.45	1.05	<=20	Pass
				3DH3	1	2.50	-2.16	0.34	<=20	Pass
				3DH5	1	2.50	-0.62	1.88	<=20	Pass
LTNV	GFSK	SISO	HOPP	DH1	1	2.50	-0.19	2.31	<=20	Pass
				DH3	1	2.50	-0.21	2.29	<=20	Pass
				DH5	1	2.50	-0.21	2.29	<=20	Pass
	π/4DQPSK	SISO	HOPP	2DH1	1	2.50	-1.43	1.07	<=20	Pass
				2DH3	1	2.50	-2.11	0.39	<=20	Pass
				2DH5	1	2.50	-2.36	0.14	<=20	Pass
	8DPSK	SISO	HOPP	3DH1	1	2.50	-1.45	1.05	<=20	Pass
				3DH3	1	2.50	-2.16	0.34	<=20	Pass
				3DH5	1	2.50	-0.58	1.92	<=20	Pass
Note1: E.I.R.P = Measured Power + Antenna Gain										

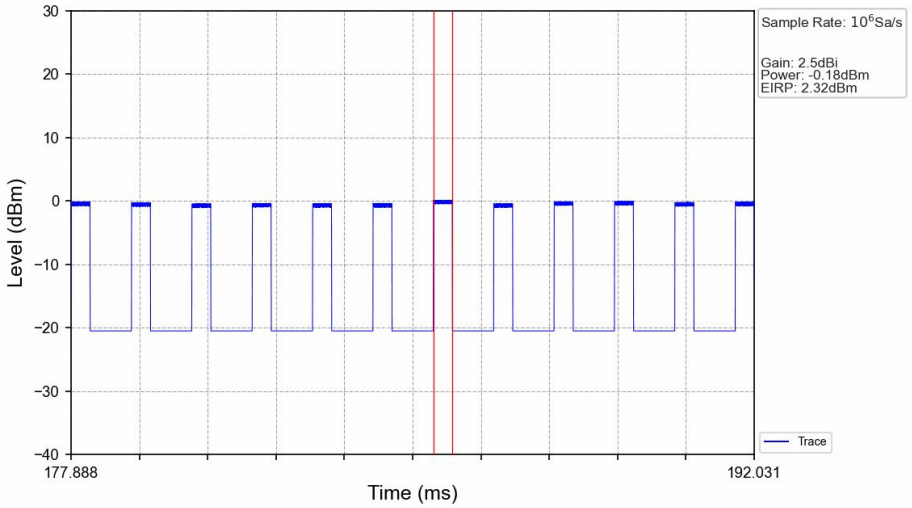
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1.2 Test Graph

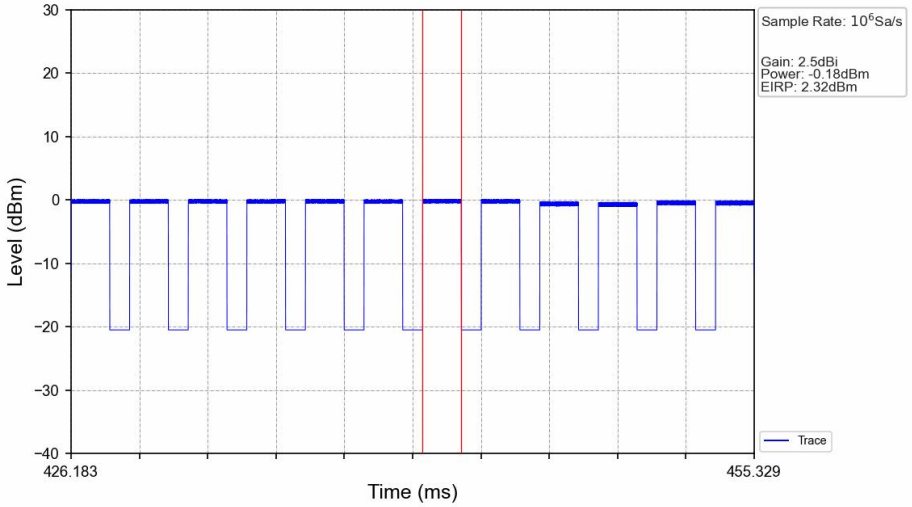
1.2.1 Power

GFSK_DH1_HOPP_Ant1_NTNV



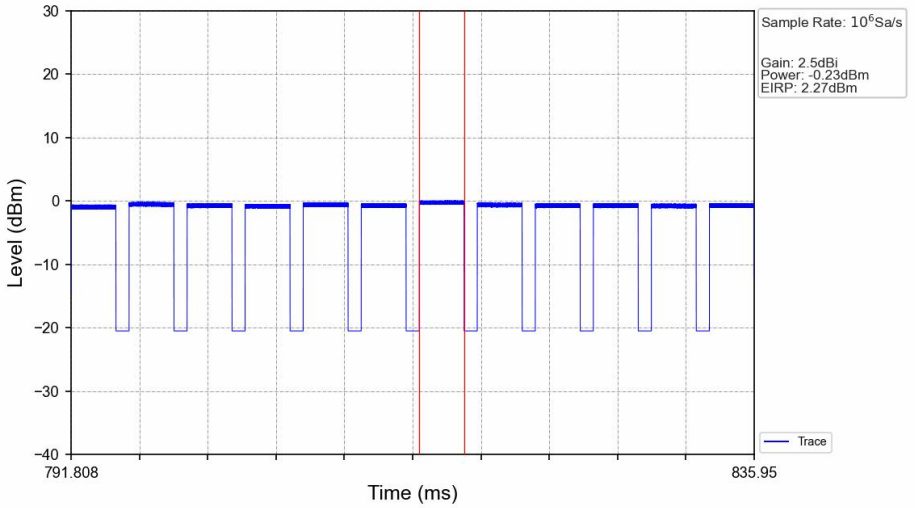
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.395	0.395	0.395	0.395	0.394	0.394	**0.394**	0.395	0.395	0.394	0.394	0.394
Power (dBm)	-0.46	-0.58	-0.75	-0.71	-0.71	-0.69	**-0.18**	-0.74	-0.42	-0.37	-0.52	-0.48
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

GFSK_DH3_HOPP_Ant1_NTNV



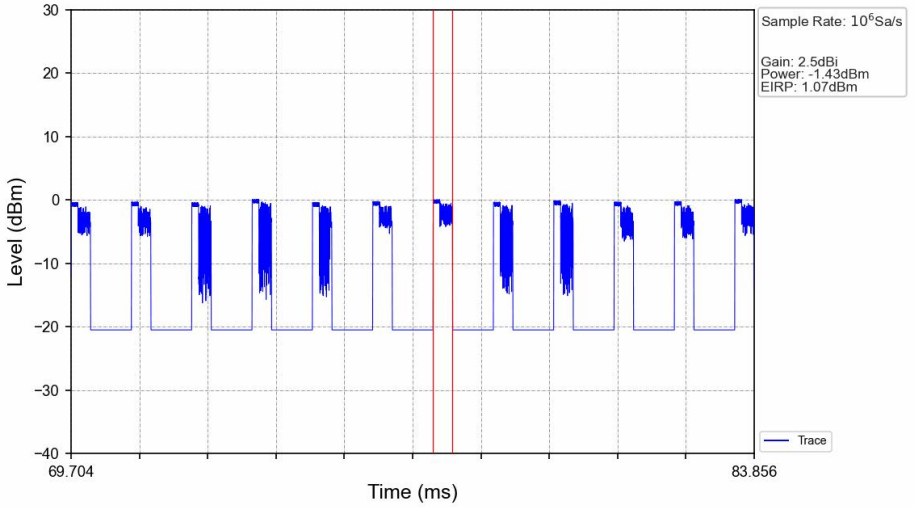
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	1.650	1.650	1.651	1.650	1.651	1.650	**1.650**	1.649	1.650	1.650	1.651	1.650
Power (dBm)	-0.22	-0.21	-0.21	-0.22	-0.20	-0.23	**-0.18**	-0.21	-0.62	-0.68	-0.43	-0.48
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

GFSK_DH5_HOPP_Ant1_NTNV



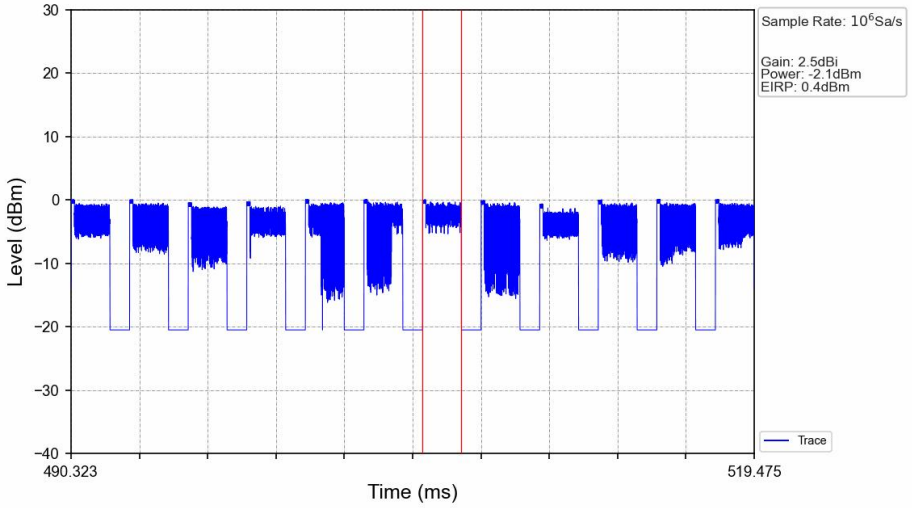
Burst No.	1	2	3	4	5	6	**7**	8	9	10	11	12
Length (ms)	2.898	2.898	2.898	2.898	2.898	2.898	**2.898**	2.898	2.898	2.898	2.897	2.898
Power (dBm)	-0.92	-0.51	-0.72	-0.81	-0.57	-0.70	**-0.23**	-0.62	-0.72	-0.71	-0.76	-0.67
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

π/4DQPSK_2DH1_HOPP_Ant1_NTNV



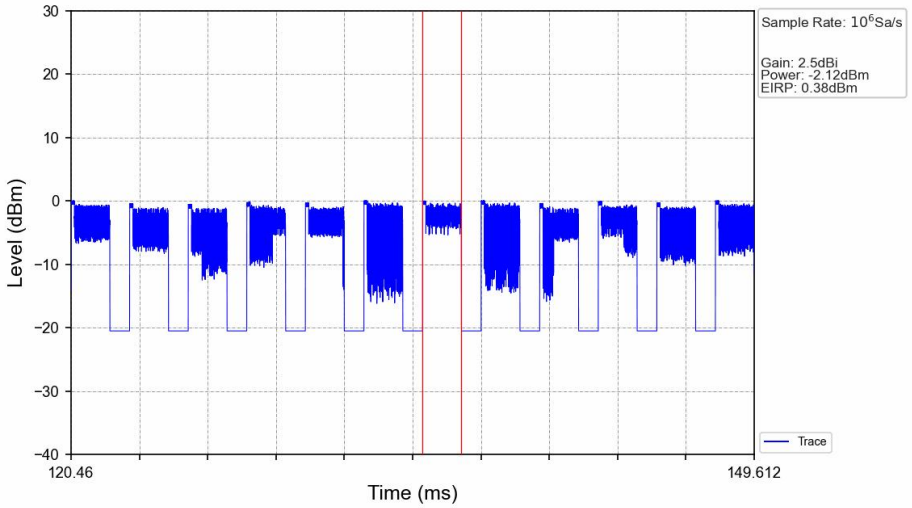
Burst No.	1	2	3	4	5	6	**7**	8	9	10	11	12
Length (ms)	0.404	0.404	0.404	0.404	0.404	0.404	**0.404**	0.404	0.405	0.404	0.404	0.404
Power (dBm)	-2.04	-2.02	-3.08	-2.51	-2.88	-1.80	**-1.43**	-2.93	-2.74	-2.13	-1.98	-1.59
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

π/4DQPSK_2DH3_HOPP_Ant1_NTNV



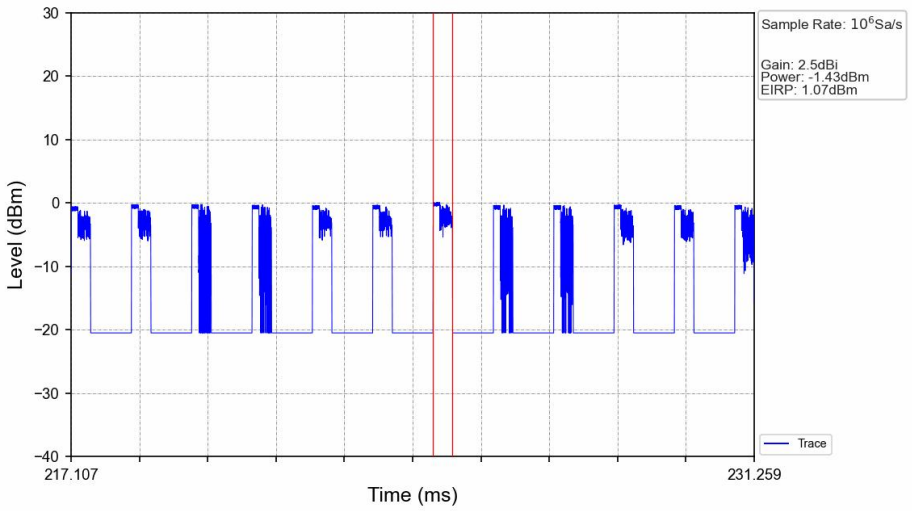
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	1.656	1.656	1.656	1.656	1.655	1.656	**1.656**	1.657	1.656	1.656	1.655	1.656
Power (dBm)	-2.47	-3.00	-3.80	-2.76	-3.29	-3.21	**-2.10**	-4.06	-3.09	-3.27	-3.10	-2.74
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

π/4DQPSK_2DH5_HOPP_Ant1_NTNV



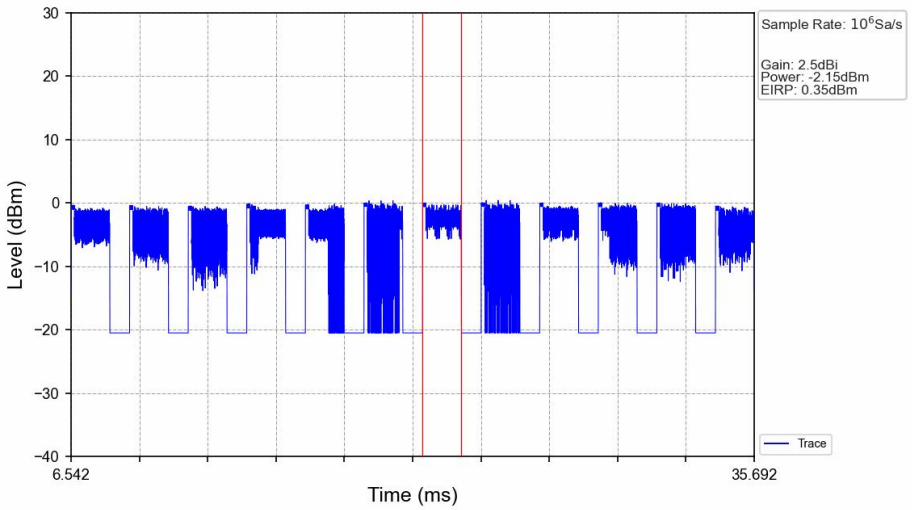
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	1.656	1.656	1.655	1.656	1.655	1.657	**1.656**	1.656	1.656	1.656	1.655	1.656
Power (dBm)	-2.60	-3.40	-3.91	-3.18	-2.73	-3.90	**-2.12**	-3.79	-3.41	-2.75	-3.64	-3.03
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

8DPSK_3DH1_HOPP_Ant1_NTNV



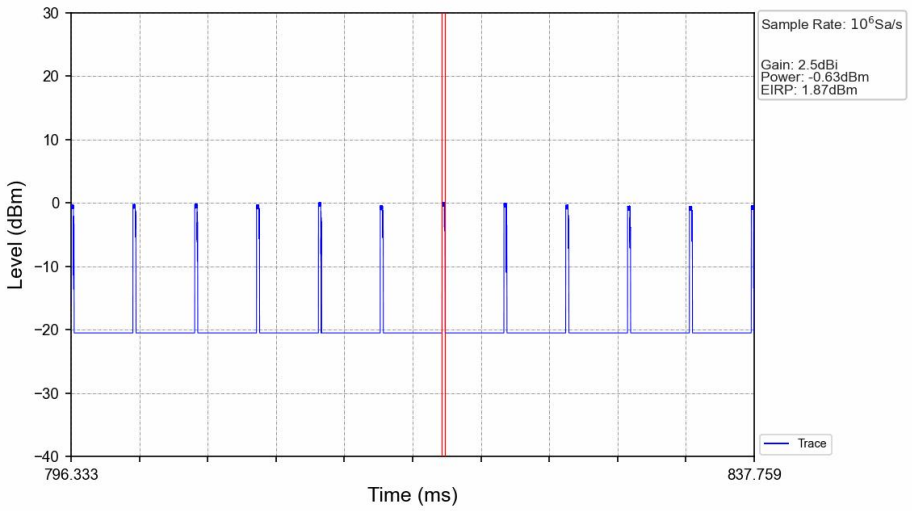
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.404	0.404	0.405	0.404	0.404	0.404	**0.404**	0.403	0.405	0.404	0.404	0.404
Power (dBm)	-2.27	-1.97	-2.84	-2.95	-1.94	-1.91	**-1.43**	-2.93	-2.95	-2.09	-2.13	-2.44
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

8DPSK_3DH3_HOPP_Ant1_NTNV



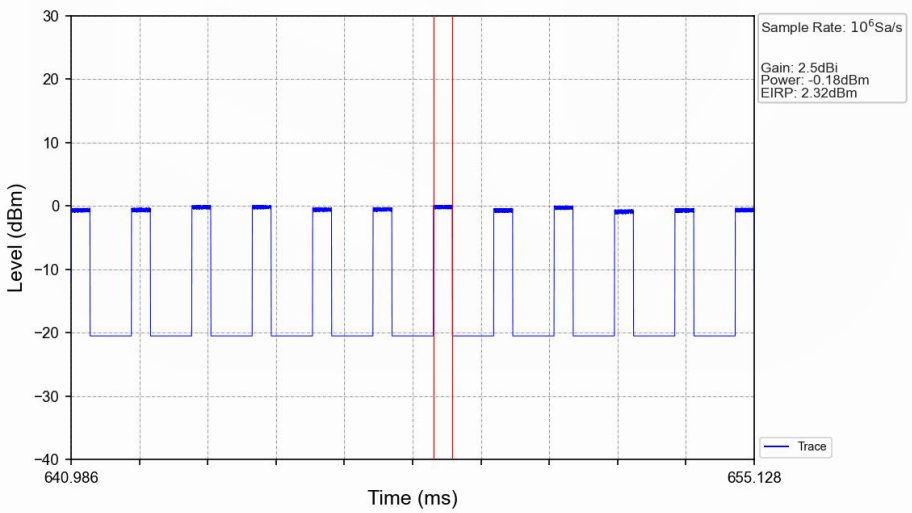
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	1.654	1.654	1.654	1.654	1.654	1.654	**1.654**	1.654	1.654	1.654	1.653	1.654
Power (dBm)	-2.93	-3.51	-3.89	-2.80	-3.33	-3.72	**-2.15**	-3.88	-2.40	-2.98	-3.25	-3.51
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

8DPSK_3DH5_HOPP_Ant1_NTNV



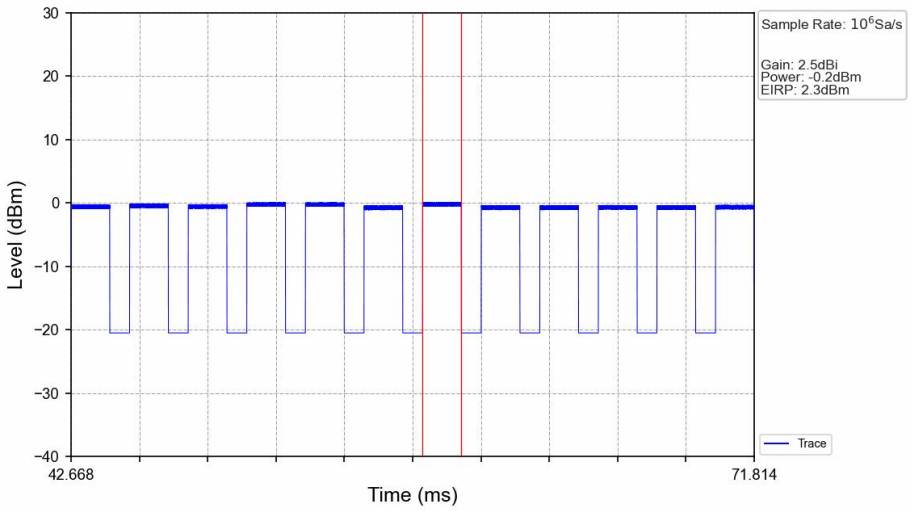
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.183	0.182	0.182	0.182	0.183	0.182	**0.182**	0.182	0.182	0.182	0.182	0.182
Power (dBm)	-1.27	-0.95	-1.02	-1.10	-0.86	-1.16	**-0.63**	-0.96	-1.10	-1.34	-1.23	-1.41
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

GFSK_DH1_HOPP_Ant1_HTNV



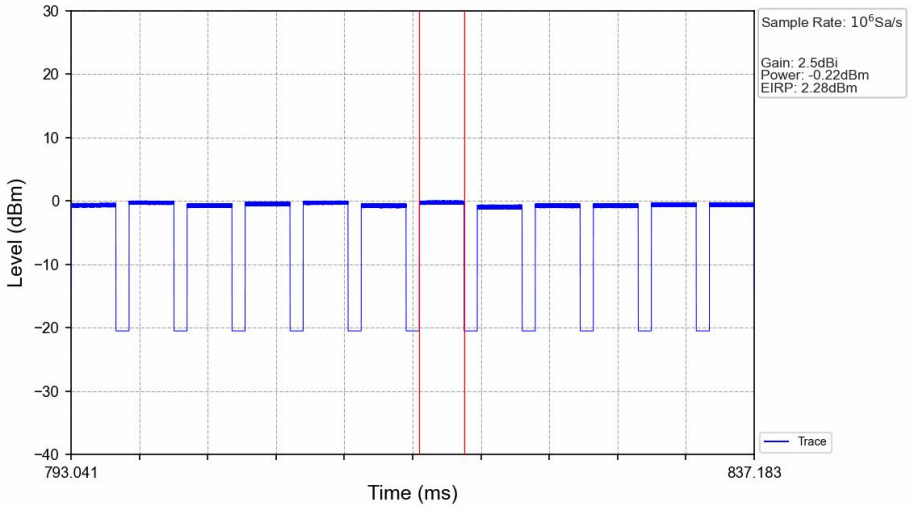
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.394	0.395	0.395	0.395	0.395	0.395	**0.394**	0.394	0.395	0.395	0.395	0.394
Power (dBm)	-0.68	-0.66	-0.21	-0.23	-0.60	-0.59	**-0.18**	-0.70	-0.29	-0.94	-0.72	-0.66
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

GFSK_DH3_HOPP_Ant1_HTNV



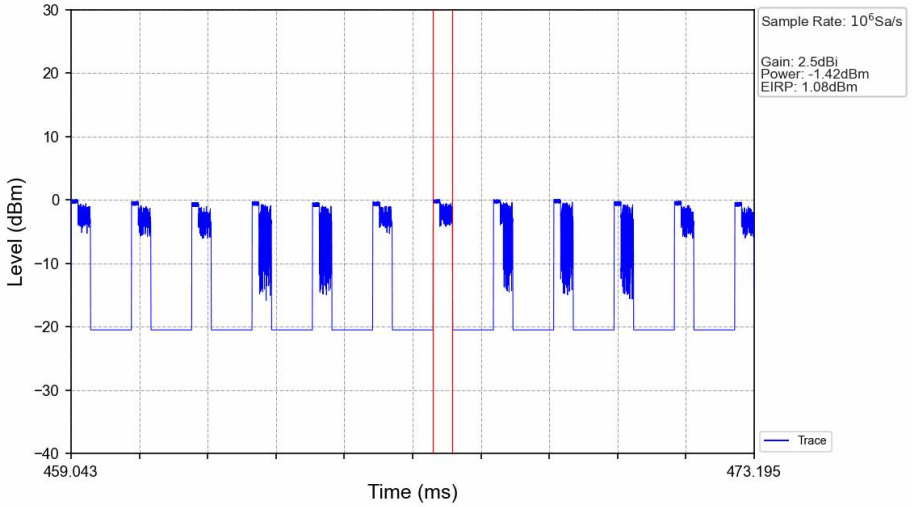
Burst No.	1	2	3	4	5	6	**7**	8	9	10	11	12
Length (ms)	1.650	1.651	1.650	1.650	1.650	1.650	**1.651**	1.651	1.650	1.651	1.650	1.650
Power (dBm)	-0.57	-0.45	-0.54	-0.22	-0.23	-0.74	**-0.20**	-0.73	-0.71	-0.68	-0.71	-0.64
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

GFSK_DH5_HOPP_Ant1_HTNV



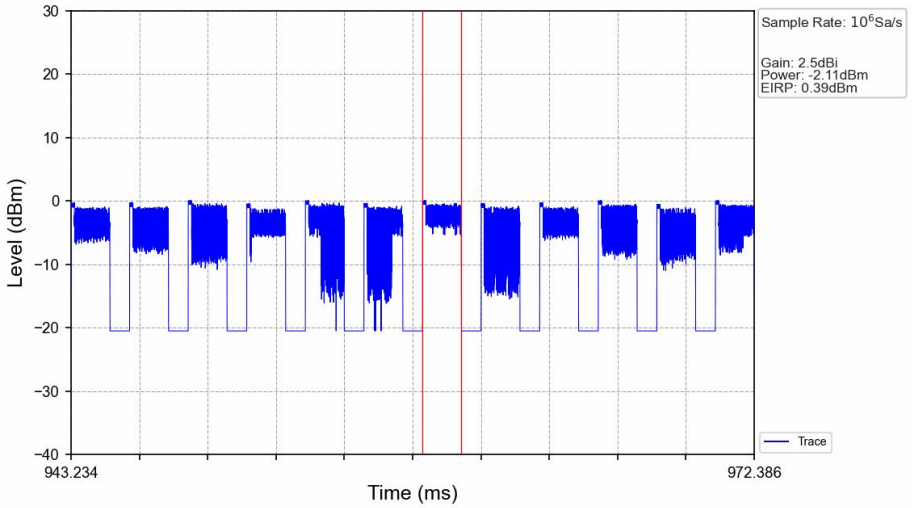
Burst No.	1	2	3	4	5	6	**7**	8	9	10	11	12
Length (ms)	2.898	2.897	2.898	2.898	2.898	2.898	**2.898**	2.898	2.897	2.898	2.898	2.898
Power (dBm)	-0.64	-0.25	-0.70	-0.45	-0.25	-0.73	**-0.22**	-0.92	-0.73	-0.73	-0.55	-0.57
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

π/4DQPSK_2DH1_HOPP_Ant1_HTNV



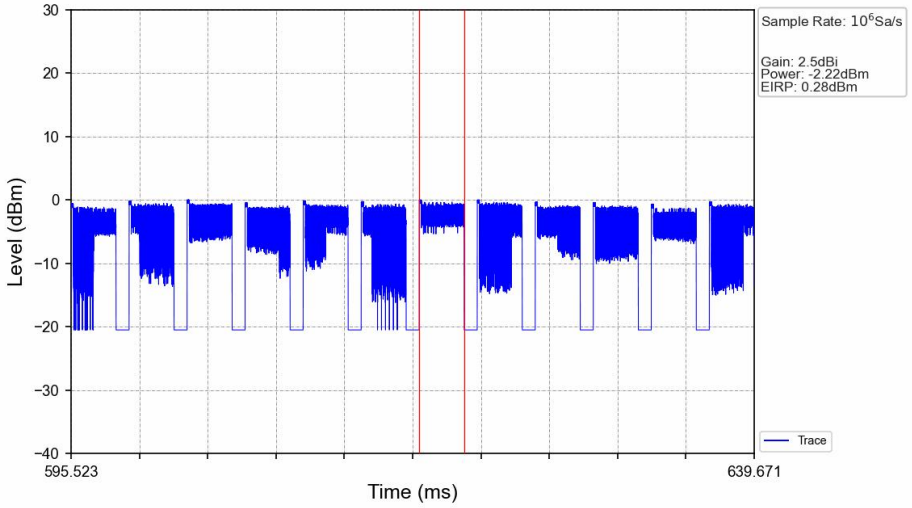
Burst No.	1	2	3	4	5	6	**7**	8	9	10	11	12
Length (ms)	0.404	0.404	0.404	0.404	0.404	0.404	**0.404**	0.403	0.405	0.404	0.404	0.404
Power (dBm)	-1.55	-1.93	-2.16	-2.87	-3.05	-1.84	**-1.42**	-2.14	-2.49	-2.87	-1.92	-2.06
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

π/4DQPSK_2DH3_HOPP_Ant1_HTNV



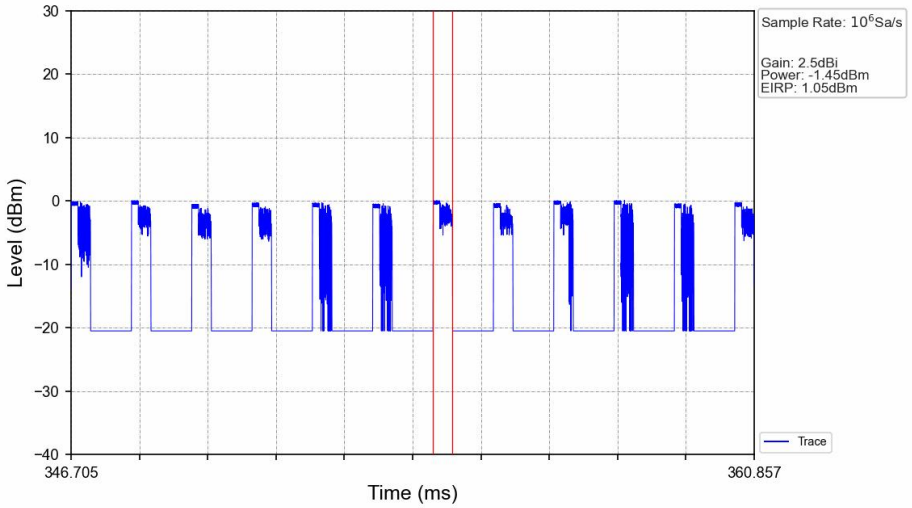
Burst No.	1	2	3	4	5	6	**7**	8	9	10	11	12
Length (ms)	1.656	1.656	1.656	1.656	1.656	1.656	**1.656**	1.656	1.656	1.656	1.655	1.656
Power (dBm)	-3.00	-3.32	-3.33	-2.89	-3.27	-3.72	**-2.11**	-4.36	-2.76	-3.08	-3.90	-2.77
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

π/4DQPSK_2DH5_HOPP_Ant1_HTNV



Burst No.	1	2	3	4	5	6	**7**	8	9	10	11	12
Length (ms)	2.904	2.904	2.904	2.903	2.904	2.904	**2.904**	2.903	2.904	2.903	2.904	2.904
Power (dBm)	-3.79	-3.68	-2.73	-3.80	-3.07	-4.14	**-2.22**	-3.66	-3.29	-3.86	-3.33	-3.84
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

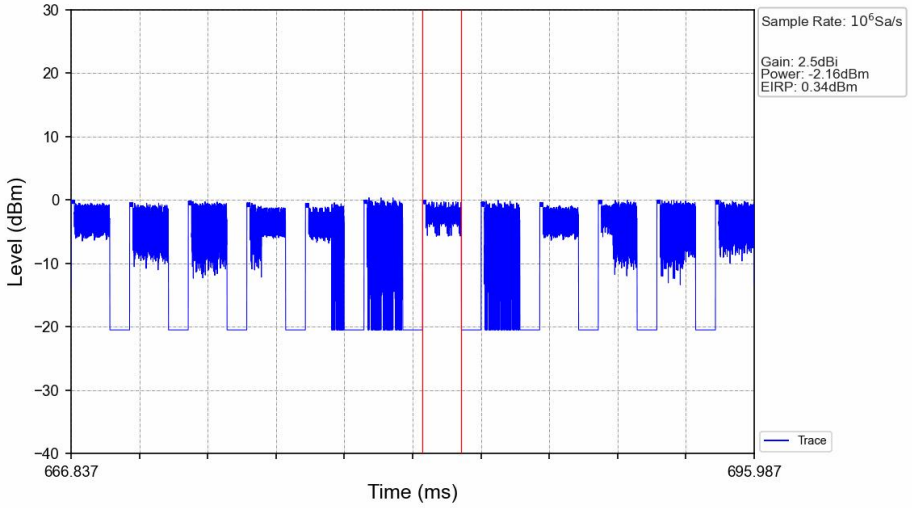
8DPSK_3DH1_HOPP_Ant1_HTNV



Burst No.	1	2	3	4	5	6	**7**	8	9	10	11	12
Length (ms)	0.405	0.404	0.404	0.404	0.405	0.404	**0.404**	0.404	0.404	0.404	0.405	0.404
Power (dBm)	-2.30	-1.61	-2.25	-2.07	-2.90	-3.05	**-1.45**	-1.99	-1.68	-2.51	-3.05	-1.97
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

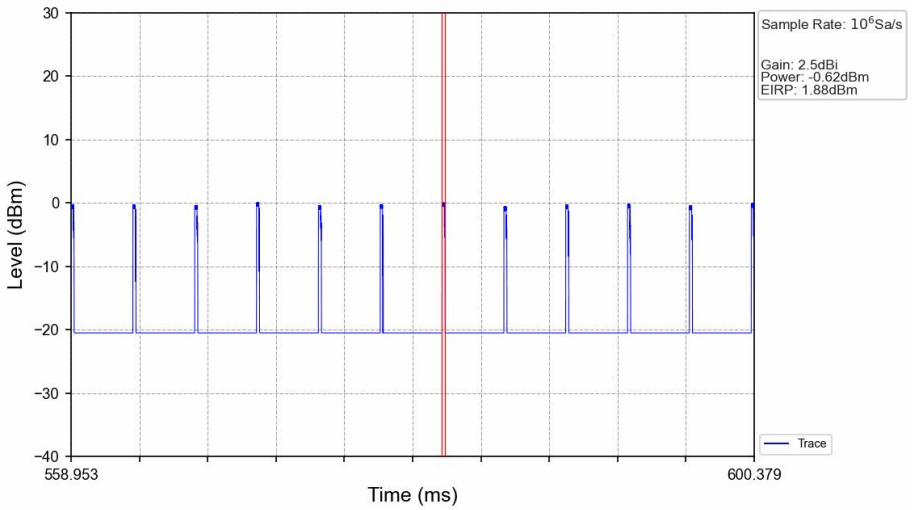
Address: 3F, Building 4 and 101, Building B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China
Website: www.eu-test.com
Tel: (86)-755-2357-9714 Email: Service@eu-test.com

8DPSK_3DH3_HOPP_Ant1_HTNV



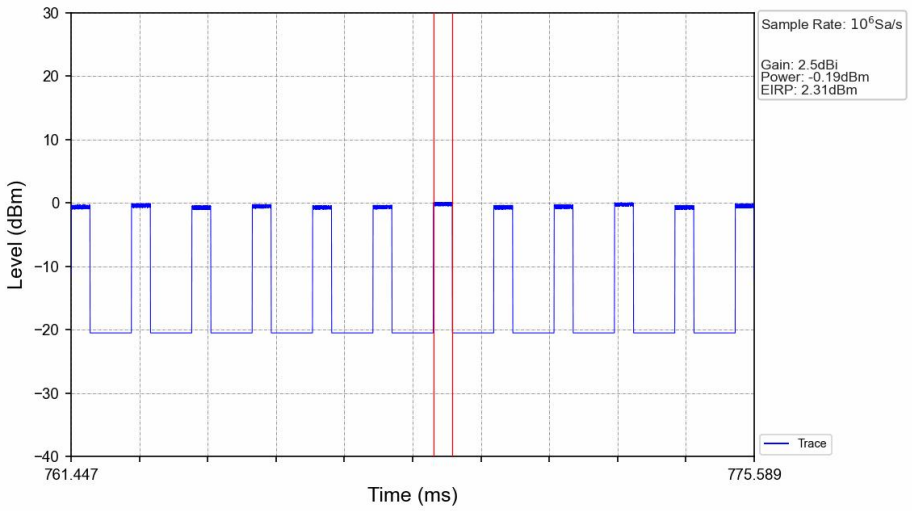
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	1.654	1.654	1.653	1.654	1.653	1.654	**1.654**	1.655	1.654	1.654	1.653	1.654
Power (dBm)	-2.49	-3.56	-3.48	-3.15	-3.47	-3.86	**-2.16**	-4.31	-2.82	-2.95	-3.28	-3.00
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

8DPSK_3DH5_HOPP_Ant1_HTNV



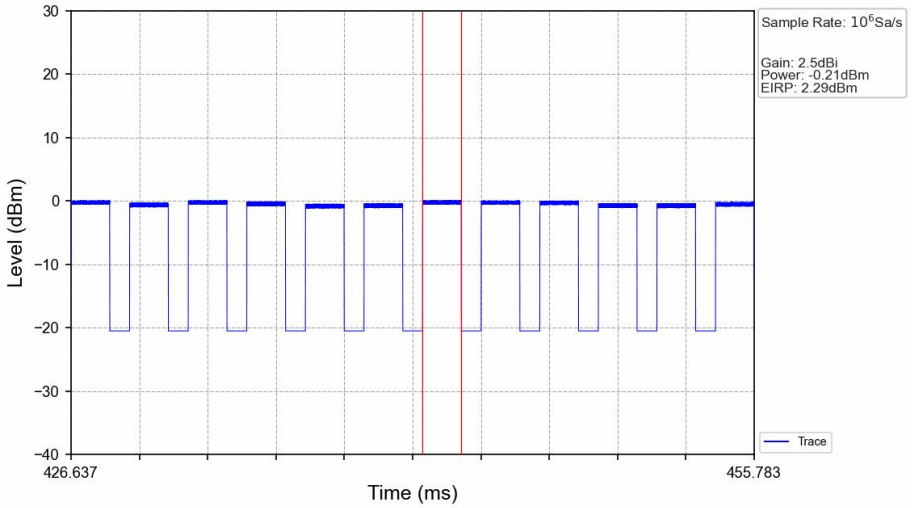
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.182	0.182	0.182	0.182	0.182	0.182	**0.182**	0.182	0.182	0.182	0.182	0.182
Power (dBm)	-0.98	-1.22	-1.15	-0.84	-1.11	-1.21	**-0.62**	-1.36	-1.13	-1.04	-1.19	-0.79
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

GFSK_DH1_HOPP_Ant1_LTNV



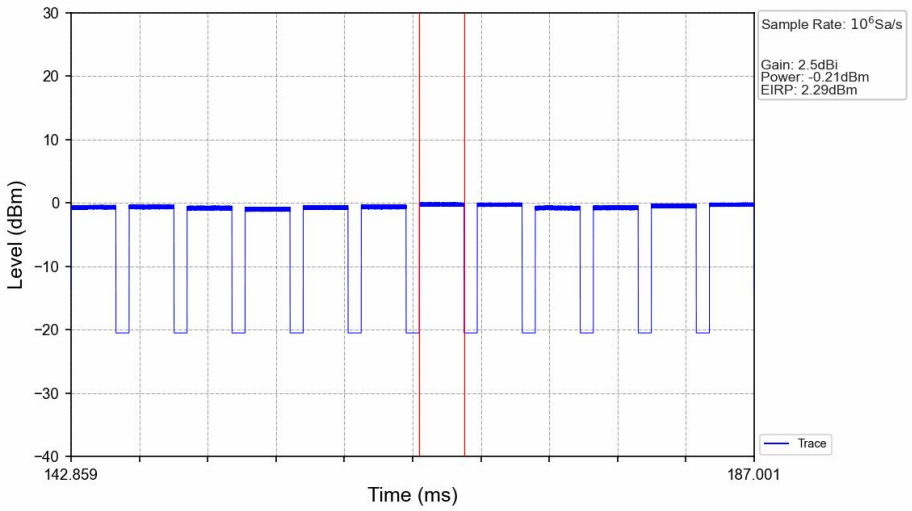
Burst No.	1	2	3	4	5	6	**7**	8	9	10	11	12
Length (ms)	0.394	0.395	0.395	0.395	0.395	0.394	**0.394**	0.394	0.395	0.395	0.394	0.394
Power (dBm)	-0.65	-0.44	-0.75	-0.56	-0.73	-0.68	**-0.19**	-0.68	-0.60	-0.26	-0.70	-0.49
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

GFSK_DH3_HOPP_Ant1_LTNV



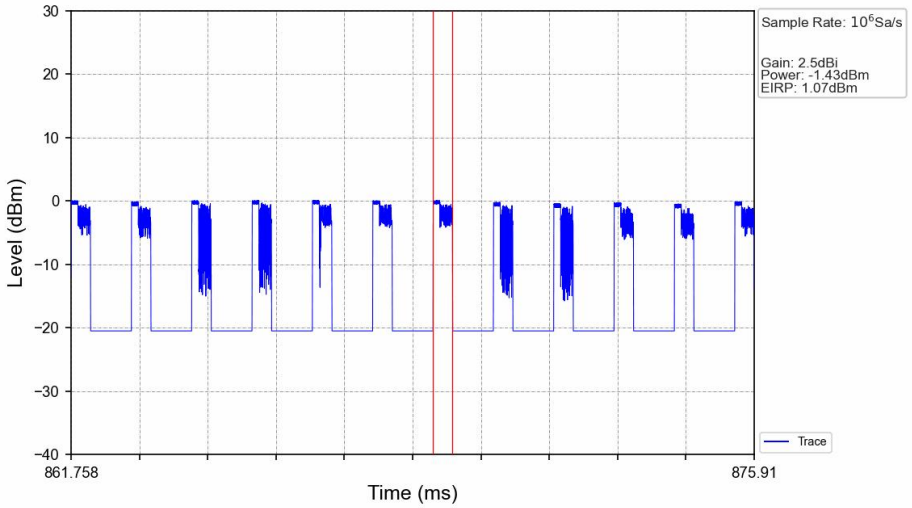
Burst No.	1	2	3	4	5	6	**7**	8	9	10	11	12
Length (ms)	1.650	1.650	1.650	1.650	1.651	1.650	**1.651**	1.650	1.650	1.649	1.650	1.650
Power (dBm)	-0.22	-0.62	-0.23	-0.42	-0.79	-0.73	**-0.21**	-0.24	-0.28	-0.71	-0.74	-0.51
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

GFSK_DH5_HOPP_Ant1_LTNV



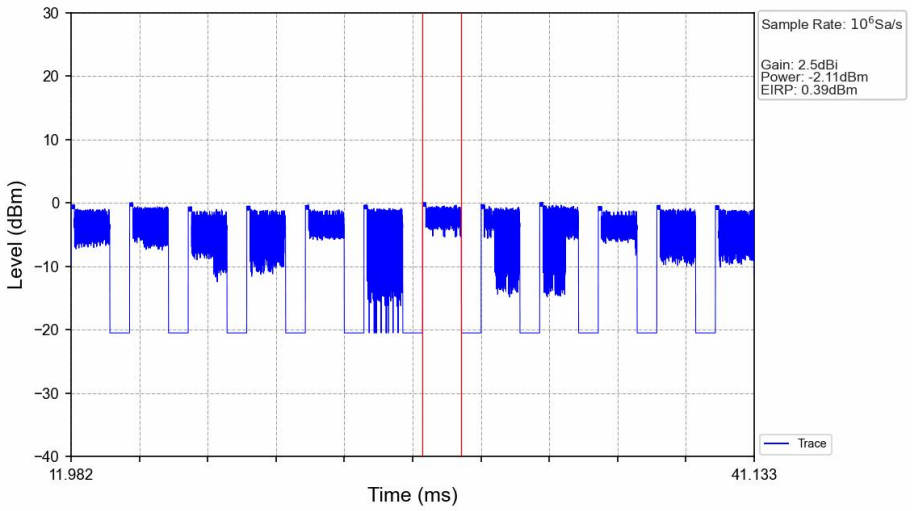
Burst No.	1	2	3	4	5	6	**7**	8	9	10	11	12
Length (ms)	2.898	2.898	2.897	2.898	2.898	2.898	**2.898**	2.898	2.897	2.898	2.898	2.898
Power (dBm)	-0.65	-0.61	-0.77	-0.96	-0.67	-0.61	**-0.21**	-0.24	-0.76	-0.74	-0.45	-0.24
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

π/4DQPSK_2DH1_HOPP_Ant1_LTNV



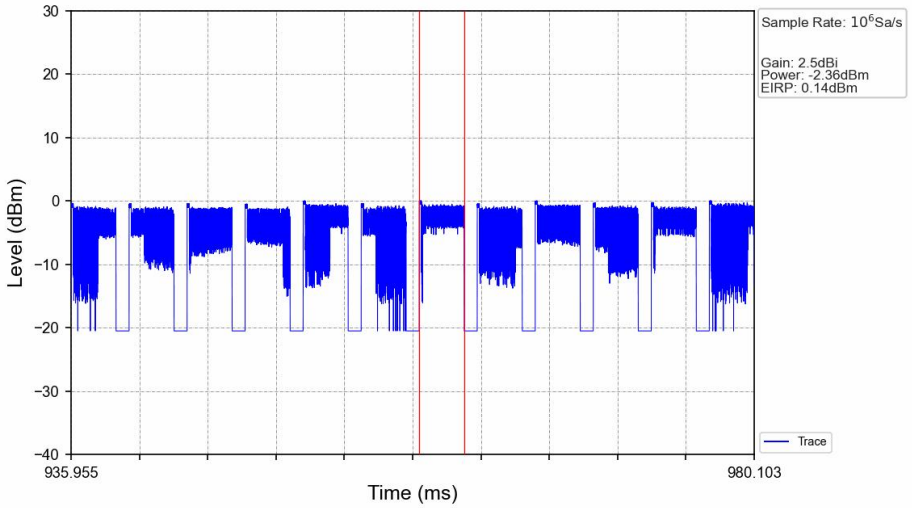
Burst No.	1	2	3	4	5	6	**7**	8	9	10	11	12
Length (ms)	0.404	0.404	0.404	0.404	0.404	0.404	**0.404**	0.404	0.404	0.404	0.404	0.404
Power (dBm)	-1.61	-1.90	-2.52	-2.49	-1.58	-1.45	**-1.43**	-2.83	-3.04	-2.01	-2.17	-1.76
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

π/4DQPSK_2DH3_HOPP_Ant1_LTNV



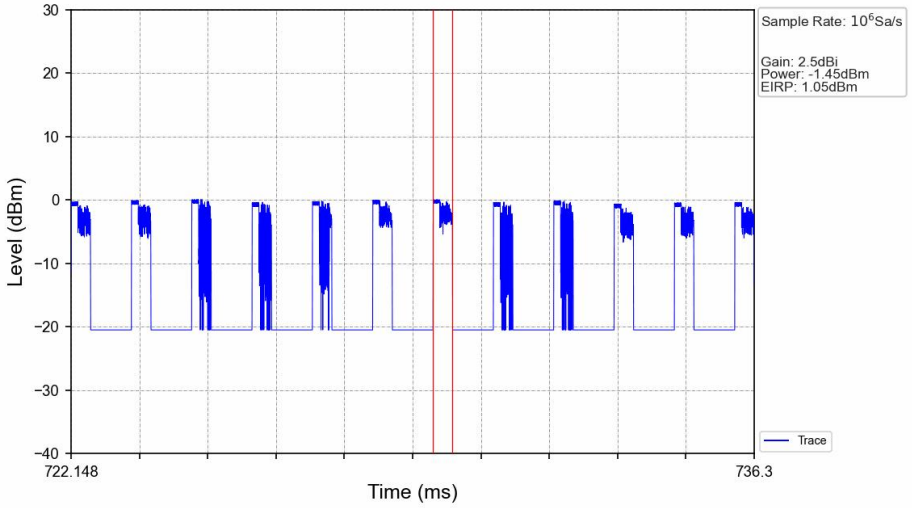
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	1.655	1.656	1.655	1.656	1.656	1.656	**1.656**	1.656	1.655	1.656	1.656	1.656
Power (dBm)	-3.08	-2.74	-3.88	-3.88	-2.78	-4.33	**-2.11**	-3.49	-3.29	-3.05	-3.70	-3.64
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

π/4DQPSK_2DH5_HOPP_Ant1_LTNV



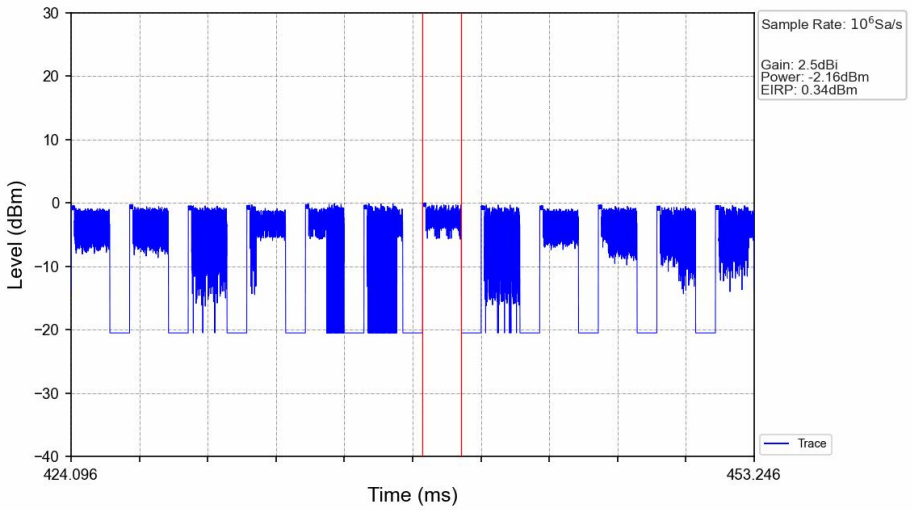
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	2.904	2.904	2.903	2.903	2.904	2.904	**2.904**	2.903	2.904	2.903	2.904	2.904
Power (dBm)	-3.84	-3.69	-3.58	-3.52	-3.11	-4.00	**-2.36**	-4.23	-2.84	-3.91	-2.71	-3.85
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

8DPSK_3DH1_HOPP_Ant1_LTNV



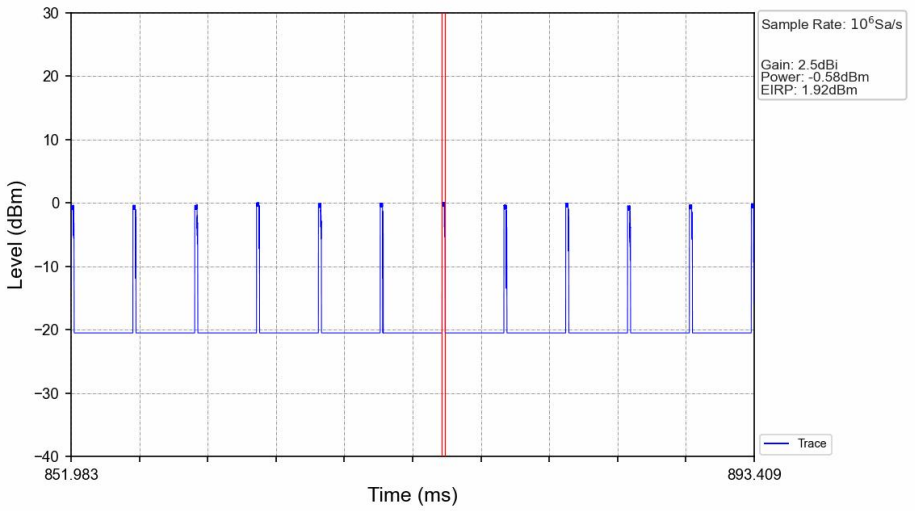
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.404	0.404	0.405	0.404	0.404	0.404	**0.404**	0.404	0.405	0.404	0.404	0.404
Power (dBm)	-1.99	-1.82	-2.49	-2.99	-2.65	-1.57	**-1.45**	-2.98	-2.75	-2.39	-2.12	-2.07
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

8DPSK_3DH3_HOPP_Ant1_LTNV



Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	1.654	1.654	1.654	1.654	1.654	1.654	**1.654**	1.654	1.654	1.654	1.653	1.654
Power (dBm)	-3.23	-3.16	-4.08	-2.88	-3.25	-4.07	**-2.16**	-4.28	-3.10	-3.27	-3.78	-3.60
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

8DPSK_3DH5_HOPP_Ant1_LTNV



Burst No.	1	2	3	4	5	6	**7**	8	9	10	11	12
Length (ms)	0.182	0.181	0.182	0.182	0.182	0.182	**0.182**	0.182	0.182	0.182	0.182	0.182
Power (dBm)	-1.09	-1.28	-1.11	-0.78	-0.79	-1.00	**-0.58**	-1.32	-0.84	-1.35	-1.05	-1.13
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

2. Accumulated Transmit Time, Frequency Occupation And Hopping Sequence

2.1 Test Result

2.1.1 ATT-Ant1

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	HOPP Num_Mini	Data Points Of T_on	Duration Of One Point (ms)	Accumulated Transmit Time (ms)		Verdict
								Result	Limit	
NTNV	GFSK	SISO	HOPP	DH1	79	317	1.053	333.801	<=400	Pass
				DH3	79	247	1.053	260.091	<=400	Pass
				DH5	79	326	1.053	343.278	<=400	Pass
	π /4DQPSK	SISO	HOPP	2DH1	79	319	1.053	335.907	<=400	Pass
				2DH3	79	257	1.053	270.621	<=400	Pass
				2DH5	79	278	1.053	292.734	<=400	Pass
	8DPSK	SISO	HOPP	3DH1	79	319	1.053	335.907	<=400	Pass
				3DH3	79	247	1.053	260.091	<=400	Pass
				3DH5	79	97	1.053	102.141	<=400	Pass

2.1.2 FO-Ant1

Ant1									
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	HOPP Num_Mini	Dwell Time (ms)	Frequency Occupation (N)		Verdict
							Result	Limit	
NTNV	GFSK	SISO	HOPP	DH1	79	1.250	3	>=1	Pass
				DH3	79	2.500	5	>=1	Pass
				DH5	79	3.749	4	>=1	Pass
	π/4DQPSK	SISO	HOPP	2DH1	79	1.250	4	>=1	Pass
				2DH3	79	2.500	7	>=1	Pass
				2DH5	79	2.500	2	>=1	Pass
	8DPSK	SISO	HOPP	3DH1	79	1.250	5	>=1	Pass
				3DH3	79	2.500	14	>=1	Pass
				3DH5	79	3.749	4	>=1	Pass

2.1.3 HS-Ant1

Ant1									
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	HOPP Num (N)		-20 dB Bandwidth (MHz)		Verdict
					Result	Limit	Result	Limit	
NTNV	GFSK	SISO	HOPP	DH5	79	>=15	79.314	>=58.45	Pass
	π/4DQPSK	SISO	HOPP	2DH5	79	>=15	79.542	>=58.45	Pass
	8DPSK	SISO	HOPP	3DH5	79	>=15	79.261	>=58.45	Pass

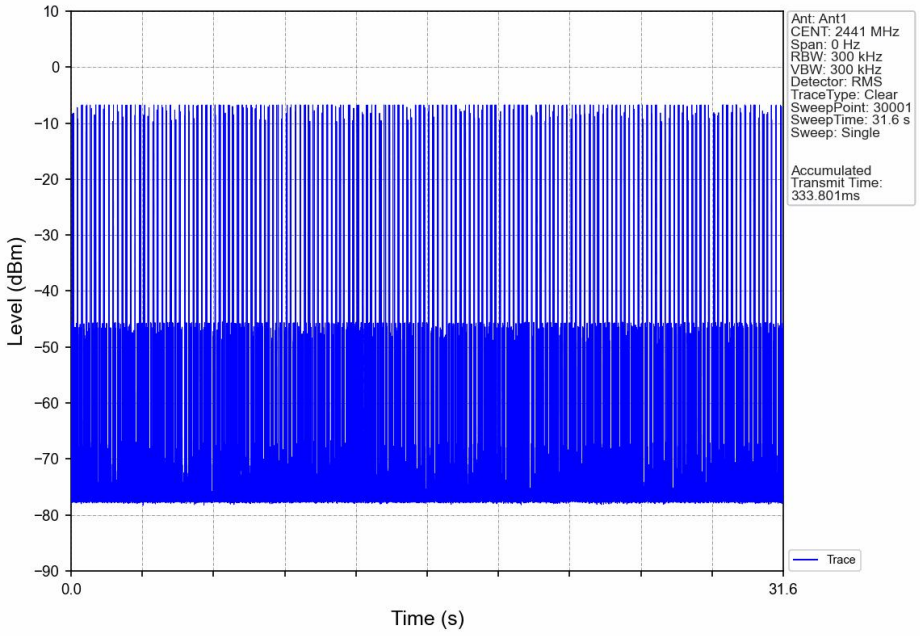
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Website: www.eu-test.com
Tel: (86)-755-2357-9714 Email: Service@eu-test.com

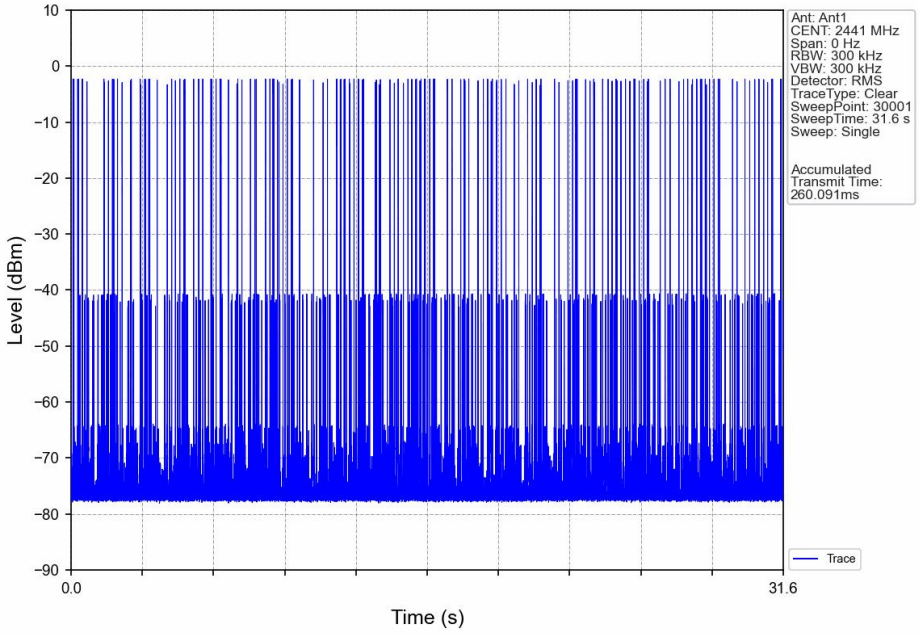
2.2 Test Graph

2.2.1 ATT-Ant1

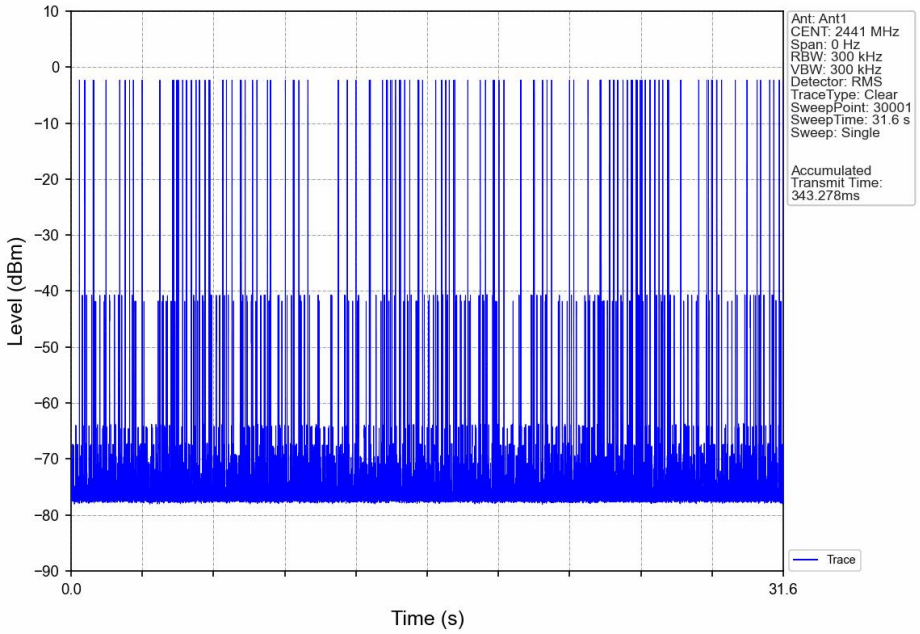
GFSK_DH1_HOPP_Ant1_NTNV



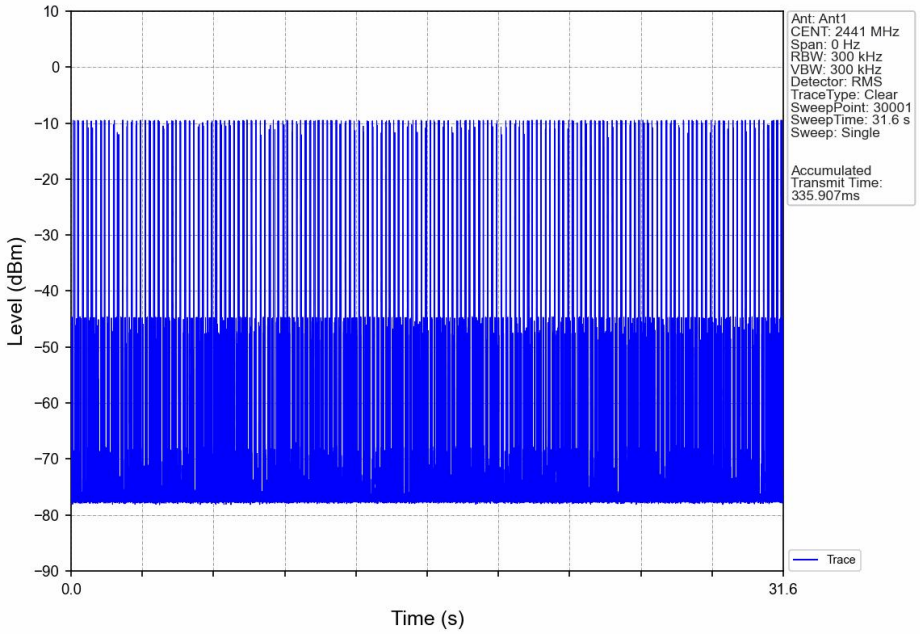
GFSK_DH3_HOPP_Ant1_NTNV



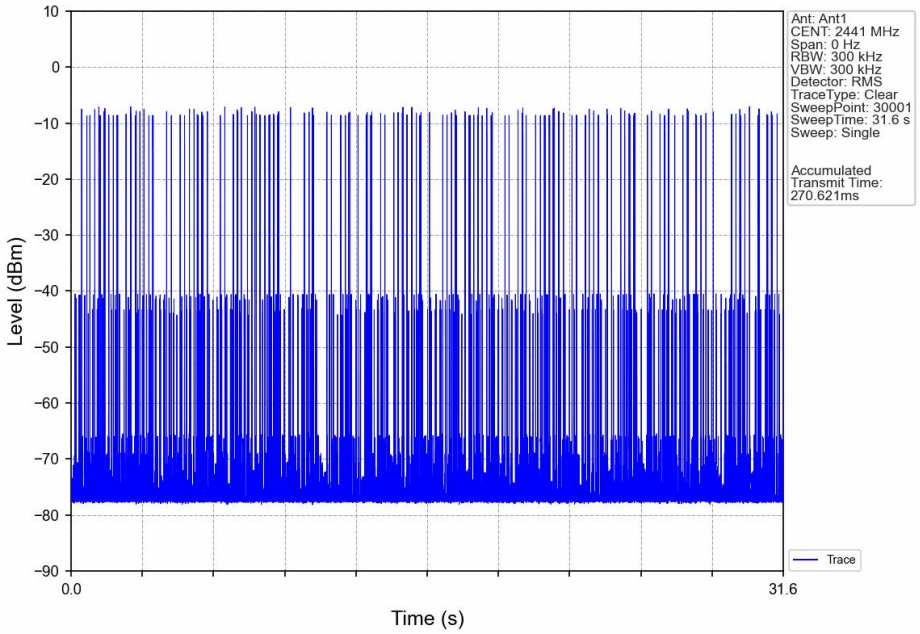
GFSK_DH5_HOPP_Ant1_NTNV



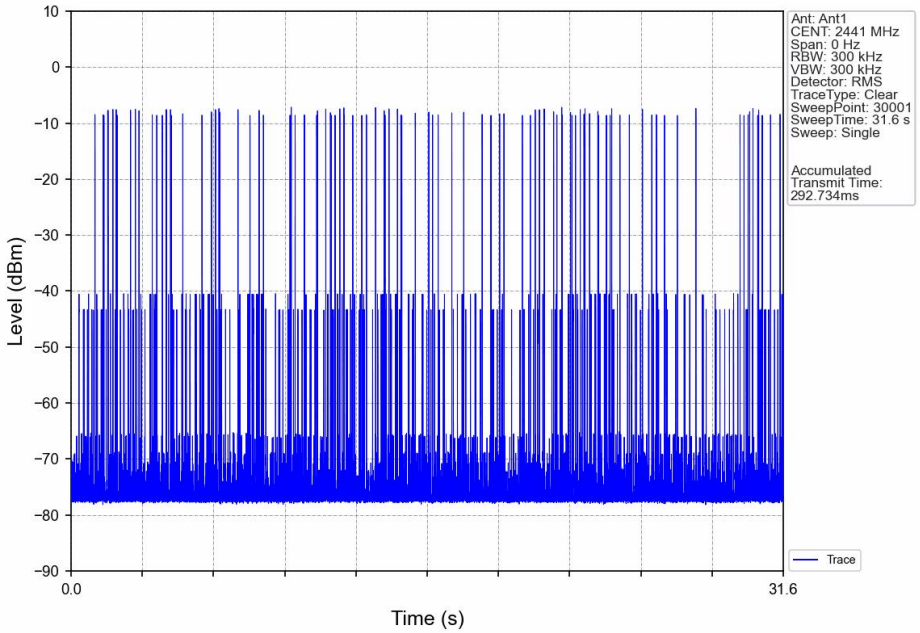
π/4DQPSK_2DH1_HOPP_Ant1_NTNV



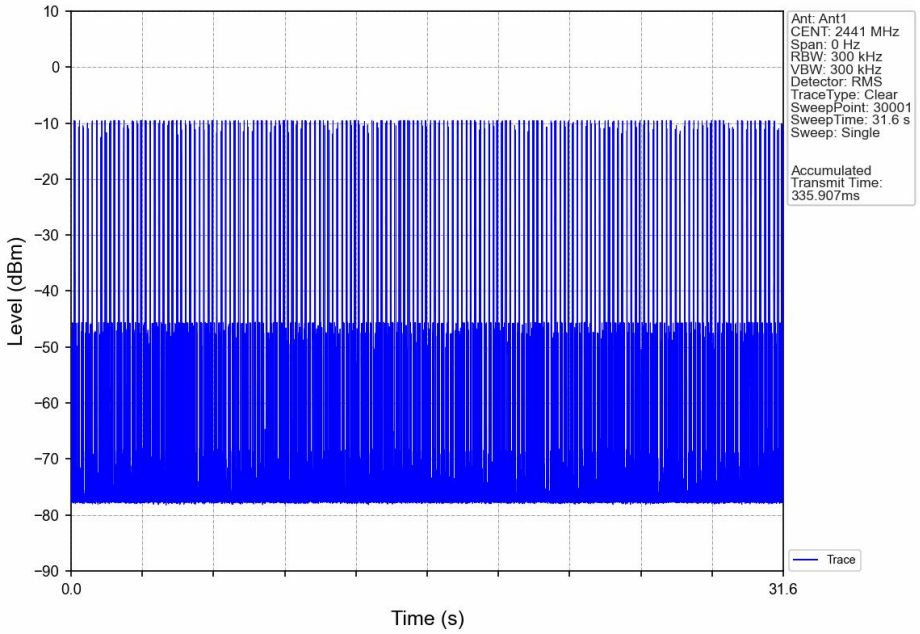
π/4DQPSK_2DH3_HOPP_Ant1_NTNV



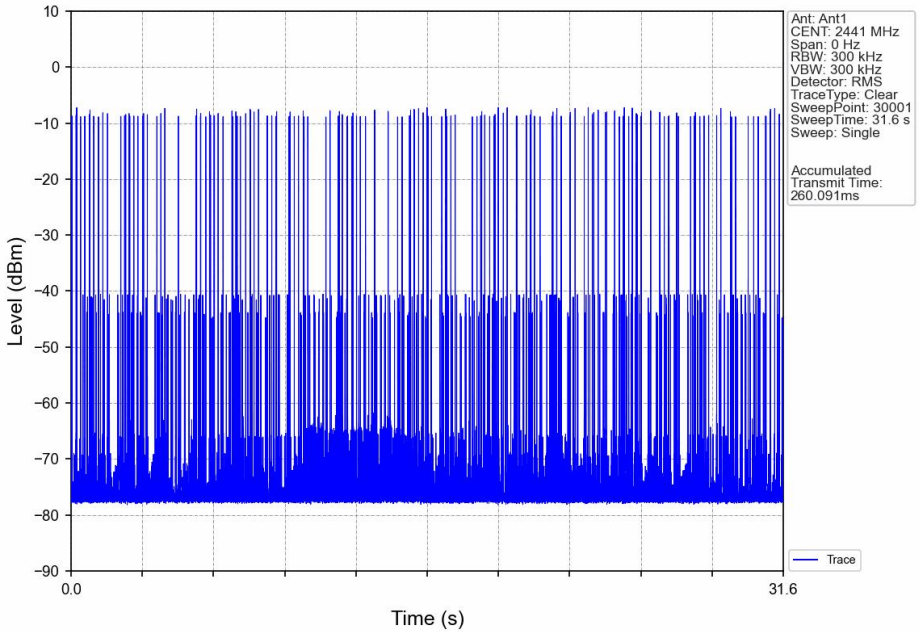
π/4DQPSK_2DH5_HOPP_Ant1_NTNV



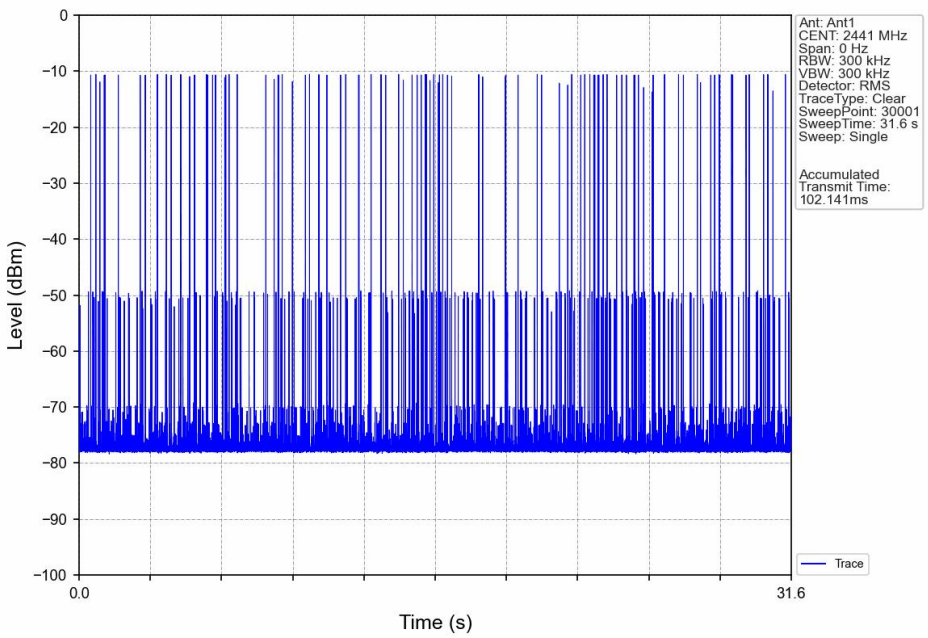
8DPSK_3DH1_HOPP_Ant1_NTNV



8DPSK_3DH3_HOPP_Ant1_NTNV

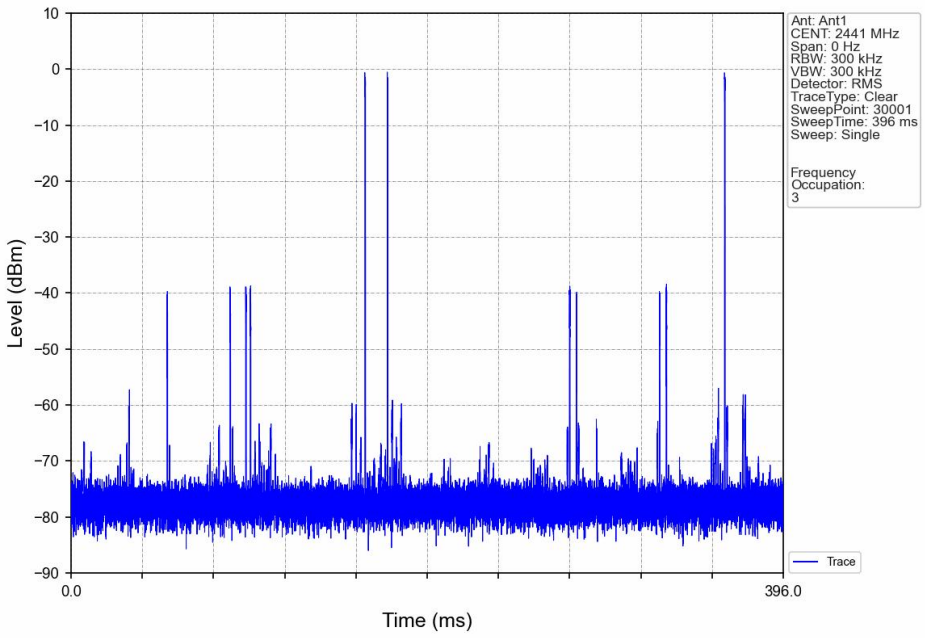


8DPSK_3DH5_HOPP_Ant1_NTNV

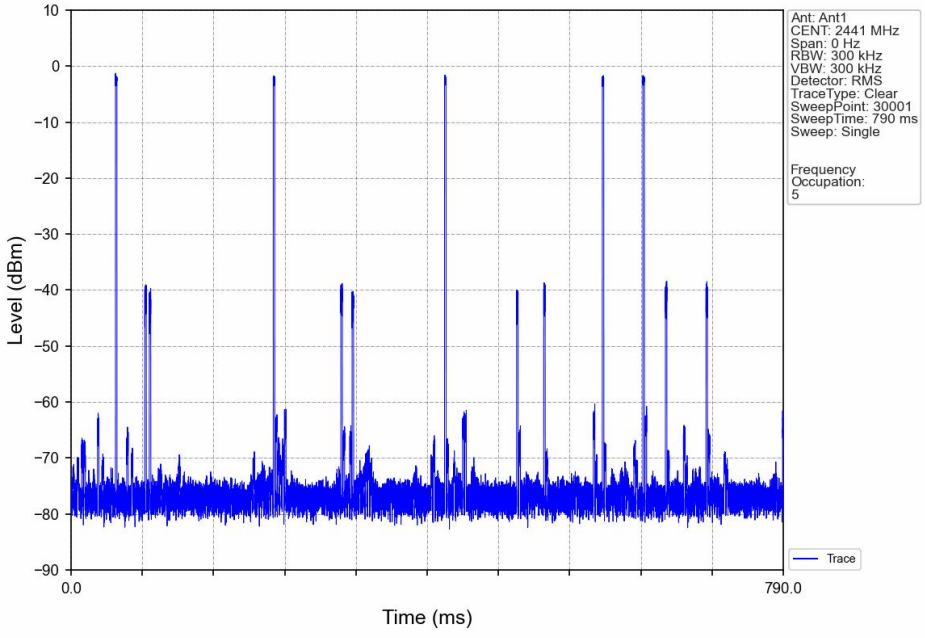


2.2.2 FO-Ant1

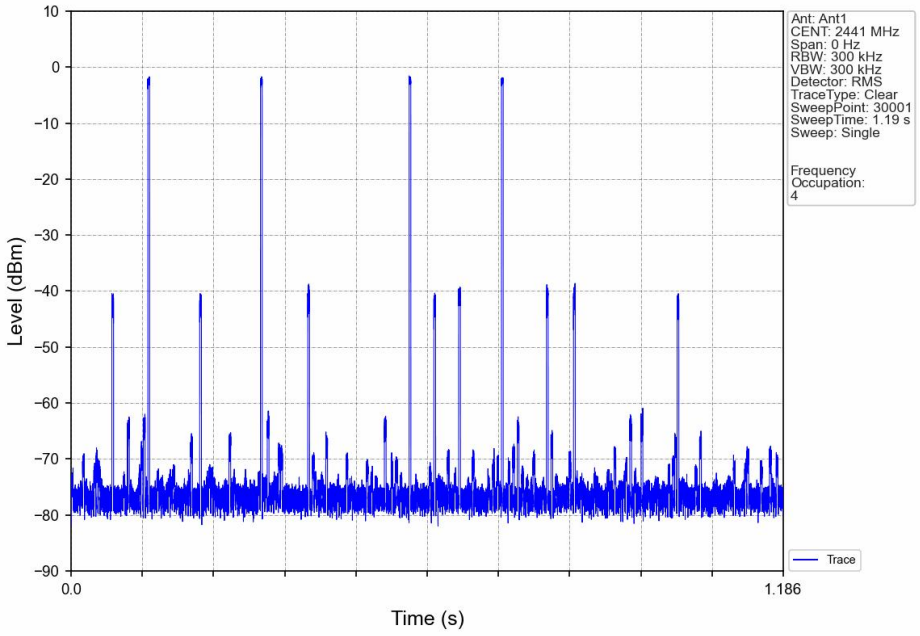
GFSK_DH1_HOPP_Ant1_NTNV



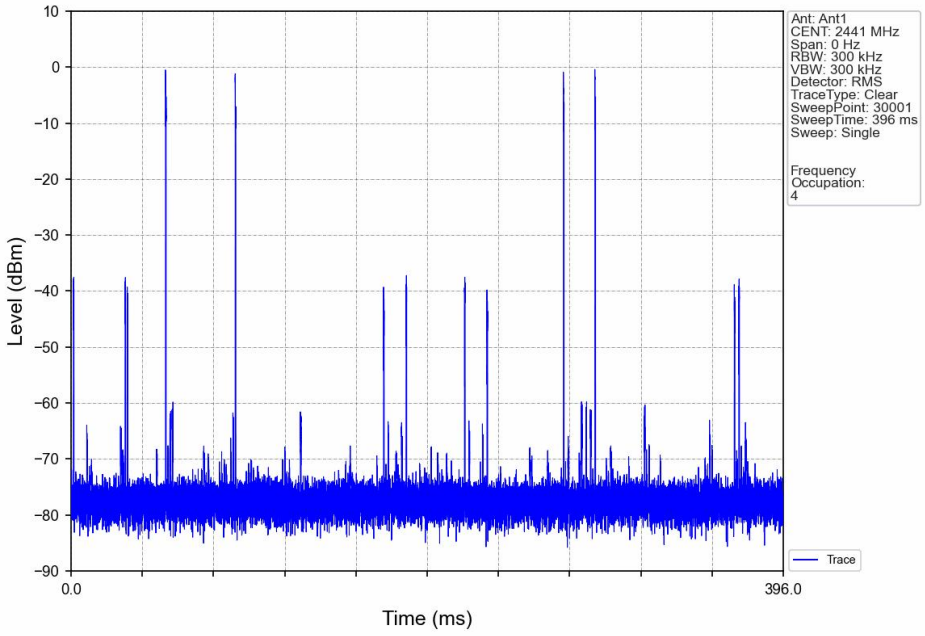
GFSK_DH3_HOPP_Ant1_NTNV



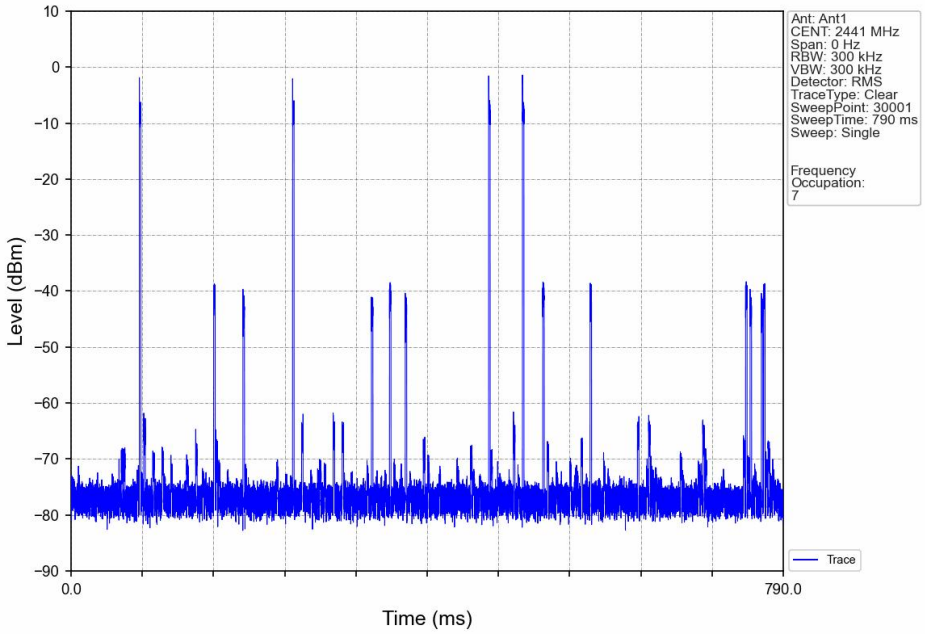
GFSK_DH5_HOPP_Ant1_NTNV



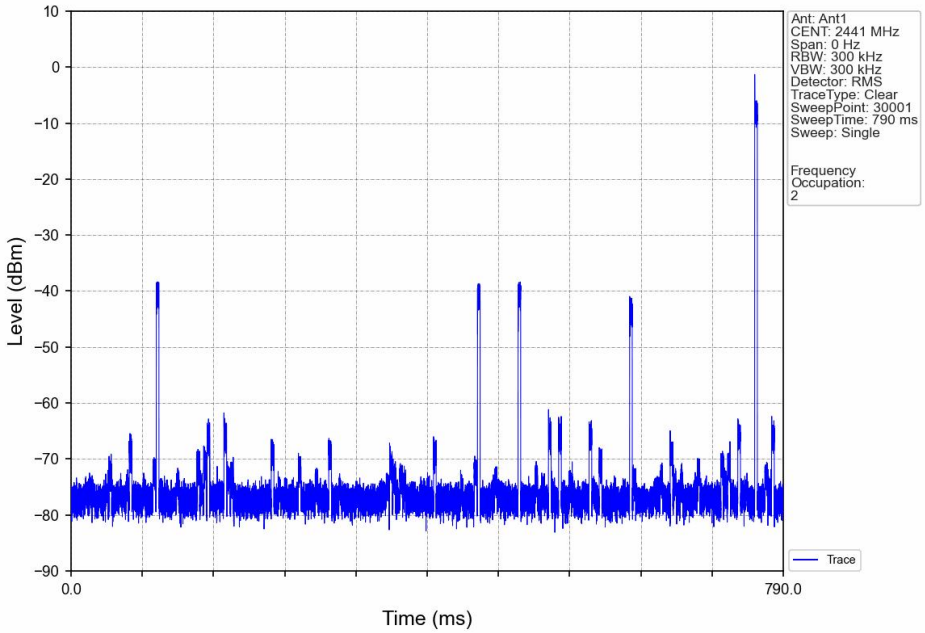
π/4DQPSK_2DH1_HOPP_Ant1_NTNV



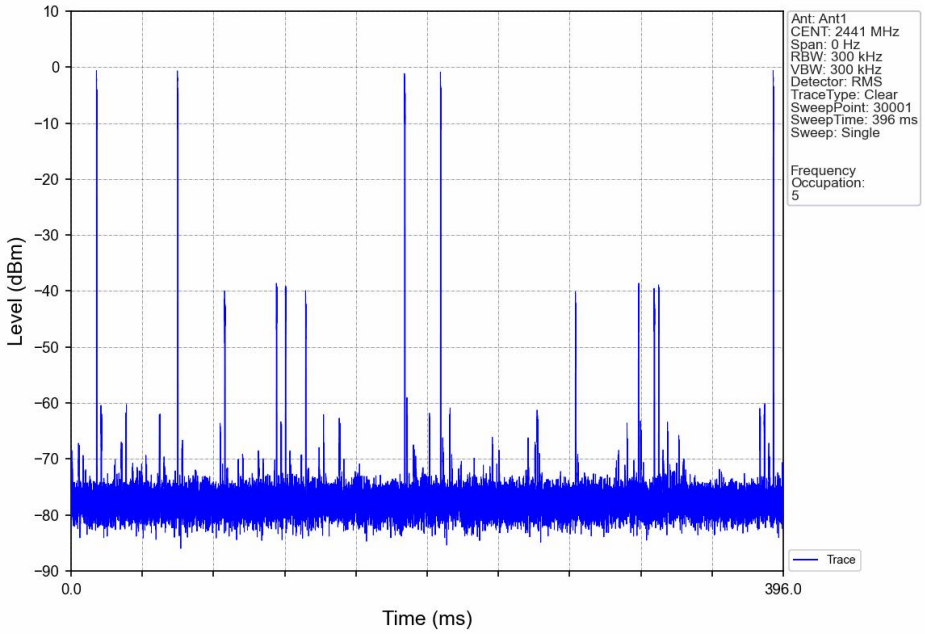
π/4DQPSK_2DH3_HOPP_Ant1_NTNV



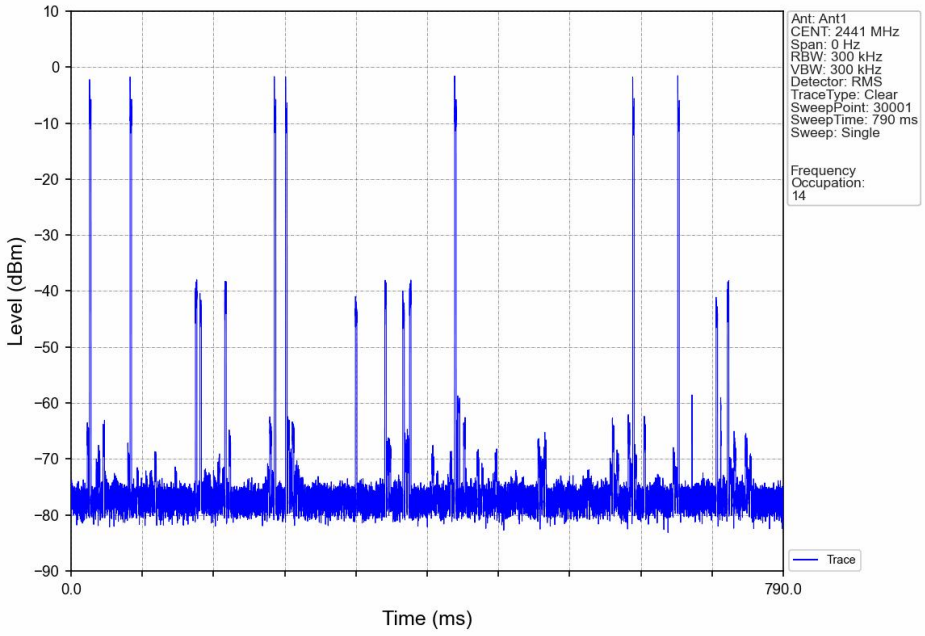
π/4DQPSK_2DH5_HOPP_Ant1_NTNV



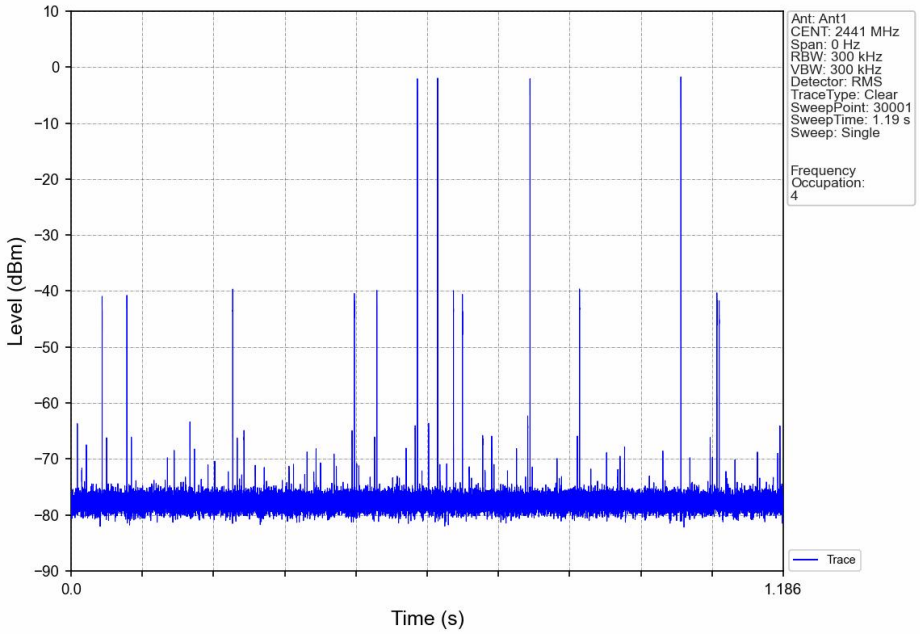
8DPSK_3DH1_HOPP_Ant1_NTNV



8DPSK_3DH3_HOPP_Ant1_NTNV

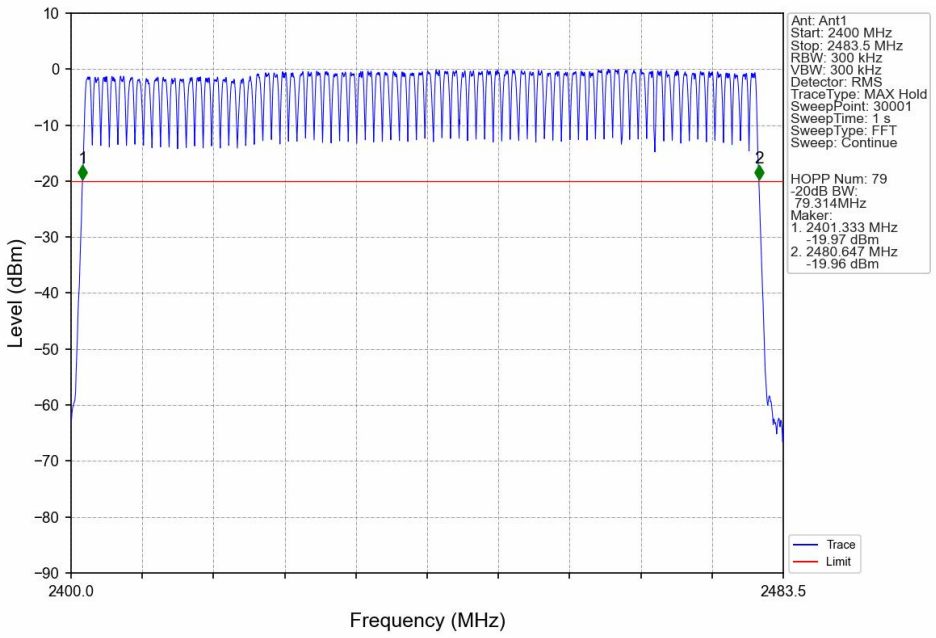


8DPSK_3DH5_HOPP_Ant1_NTNV

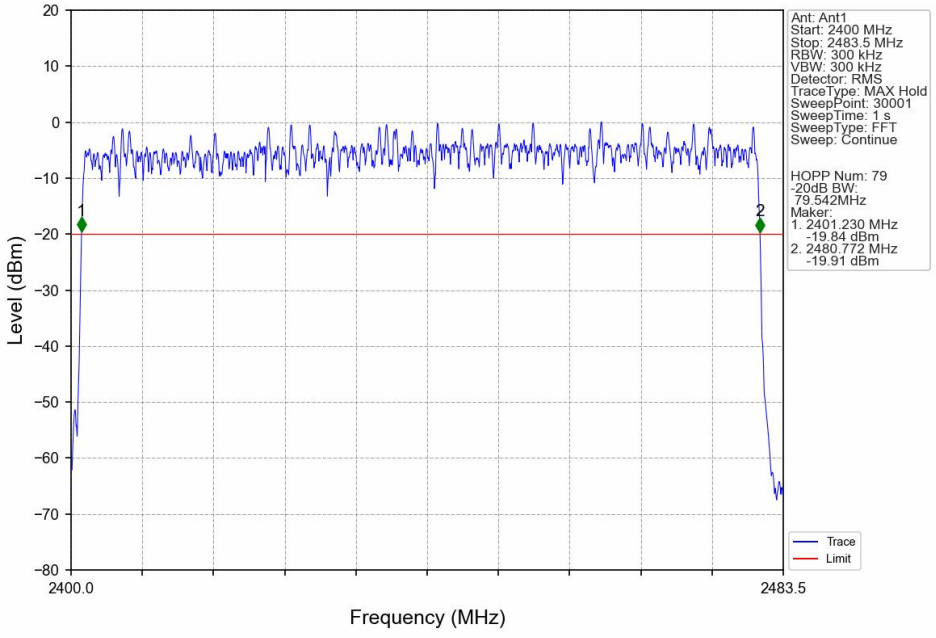


2.2.3 HS-Ant1

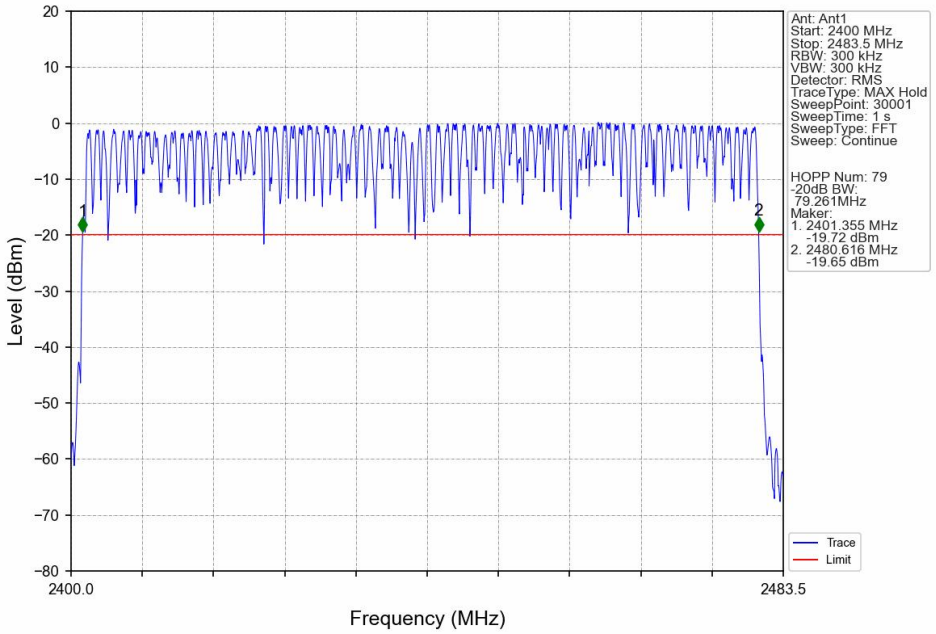
GFSK_DH5_HOPP_Ant1_NTNV



π/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



3. Hopping Frequency Separation

3.1 Test Result

3.1.1 Ant1

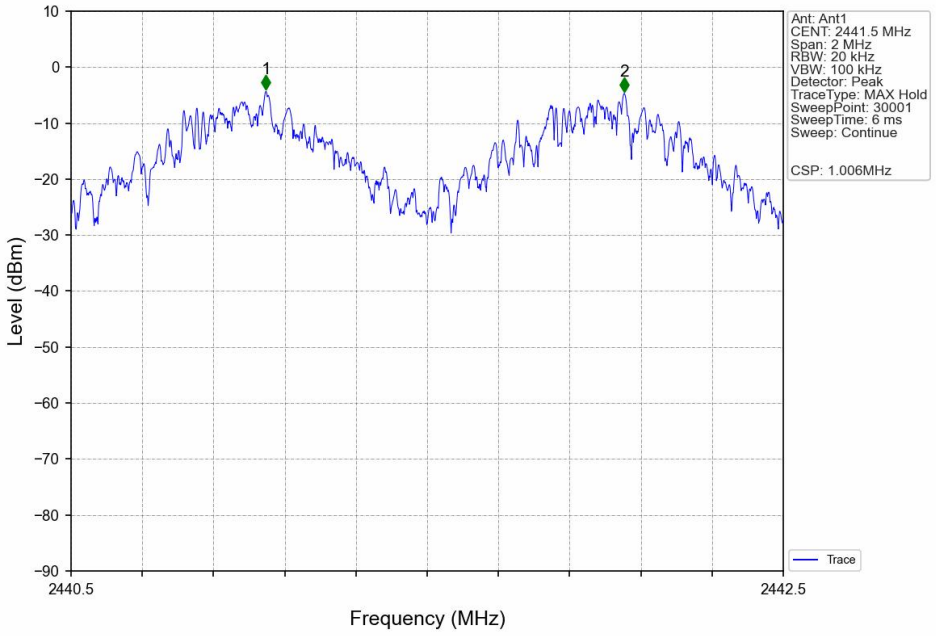
Ant1							
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	Limit (MHz)	Verdict
NTNV	GFSK	SISO	HOPP	DH5	1.006	>=0.1	Pass
	π/4DQPSK	SISO	HOPP	2DH5	0.761	>=0.1	Pass
	8DPSK	SISO	HOPP	3DH5	1.000	>=0.1	Pass

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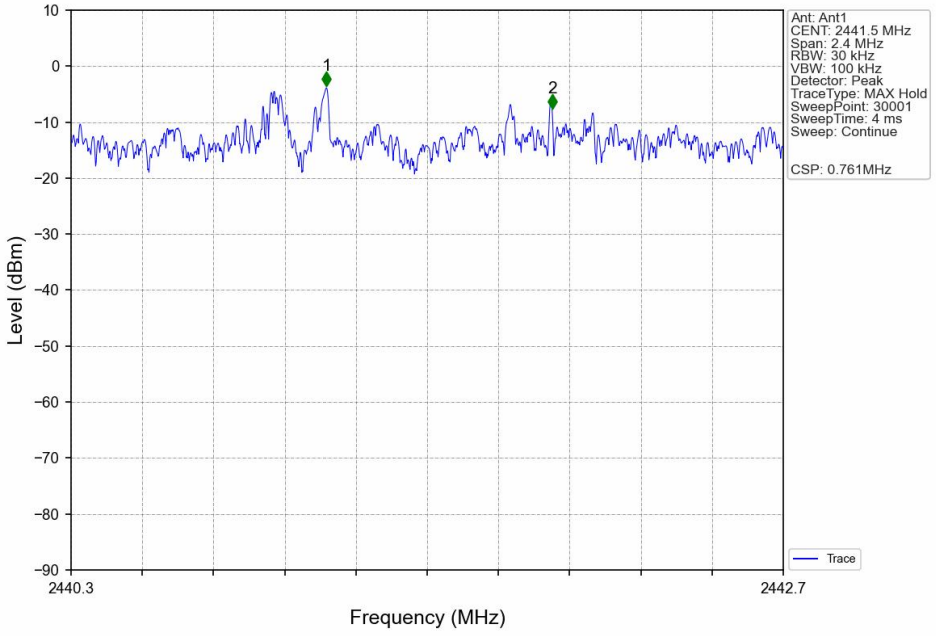
3.2 Test Graph

3.2.1 Ant1

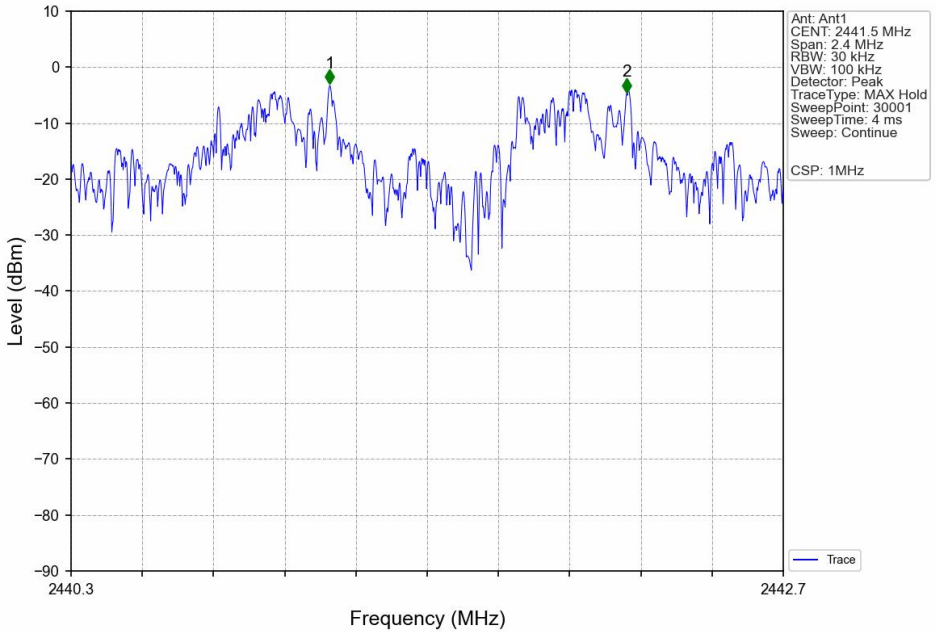
GFSK_DH5_HOPP_Ant1_NTNV



π/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



4. Occupied Channel Bandwidth

4.1 Test Result

4.1.1 OBW_Ant1

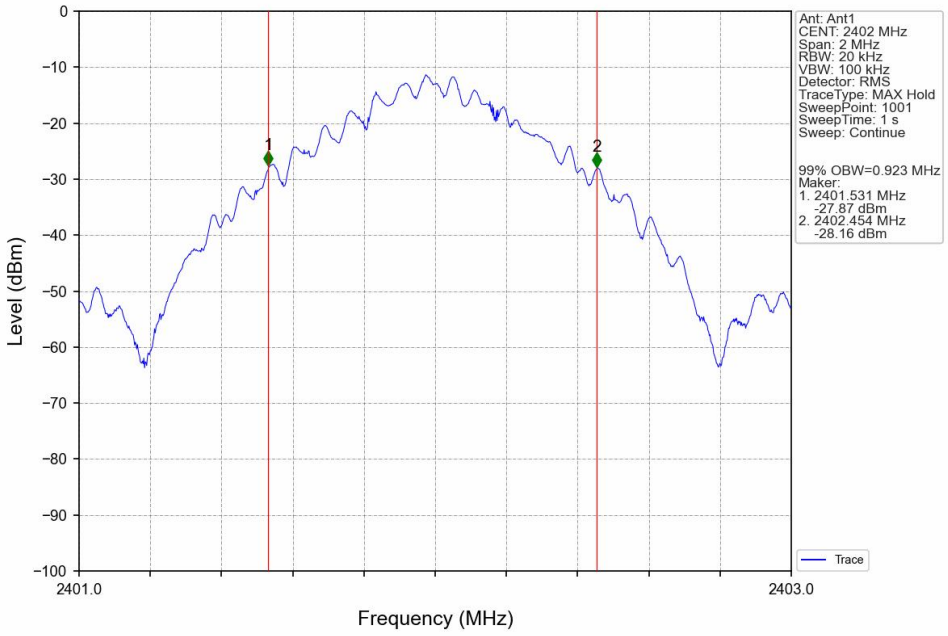
Ant1									
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	OBW (MHz)	Frequency Range (MHz)			Verdict
					Result	FL	FH	Limit	
NTNV	GFSK	SISO	2402	DH5	0.923	2401.531	/	>=2400	Pass
			2480	DH5	0.922	/	2480.453	<=2483.5	Pass
	π/4DQPSK	SISO	2402	2DH5	1.191	2401.393	/	>=2400	Pass
			2480	2DH5	1.191	/	2480.583	<=2483.5	Pass
	8DPSK	SISO	2402	3DH5	1.039	2401.473	/	>=2400	Pass
			2480	3DH5	1.039	/	2480.512	<=2483.5	Pass

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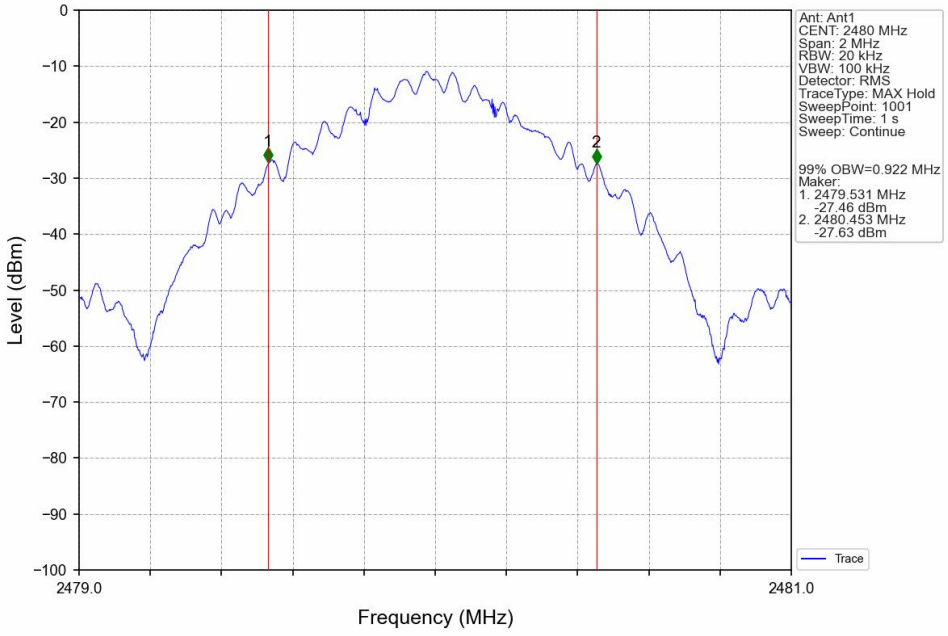
4.2 Test Graph

4.2.1 OBW_Ant1

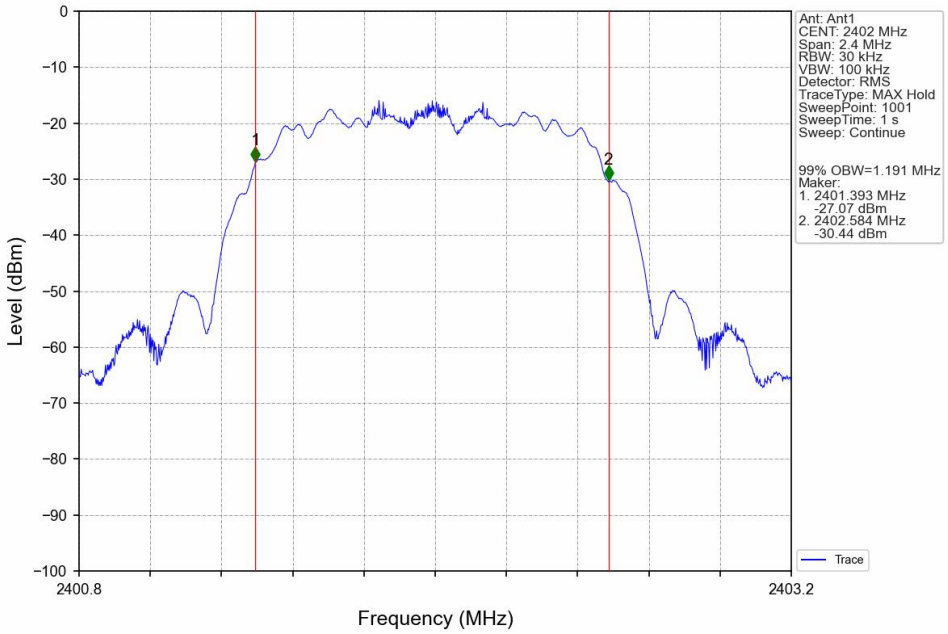
GFSK_DH5_2402MHz_Ant1_NTNV



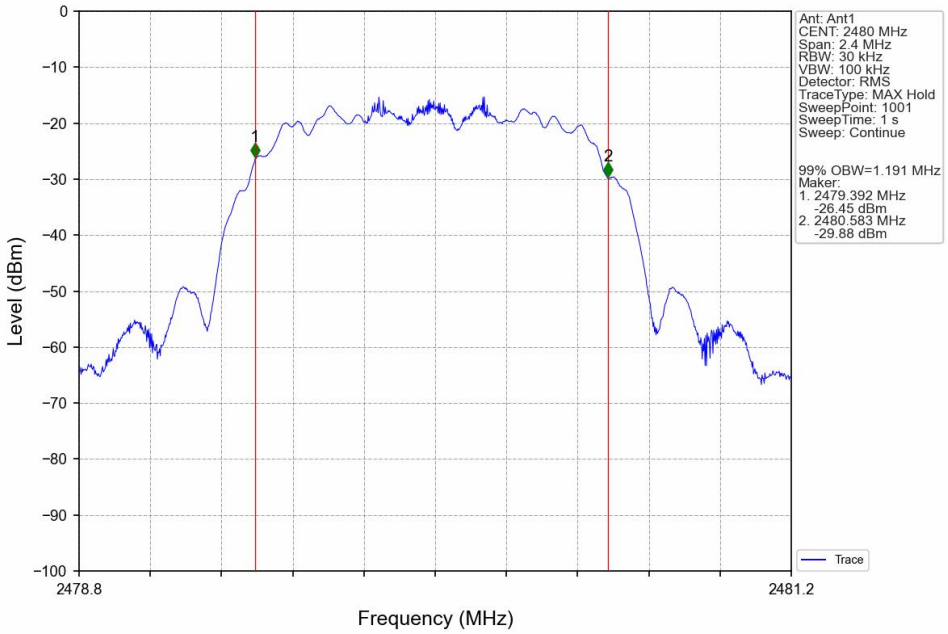
GFSK_DH5_2480MHz_Ant1_NTNV



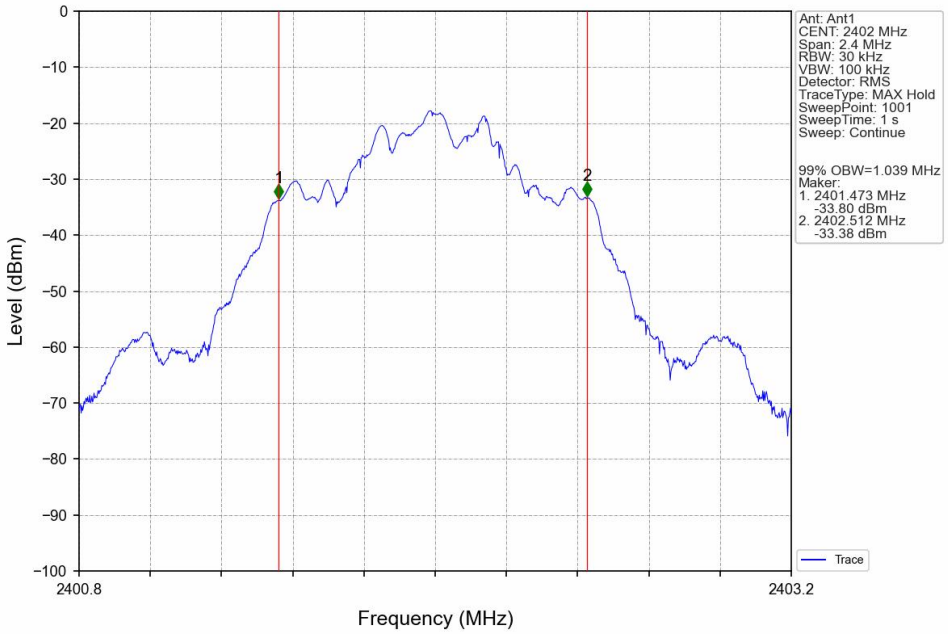
π/4DQPSK_2DH5_2402MHz_Ant1_NTNV



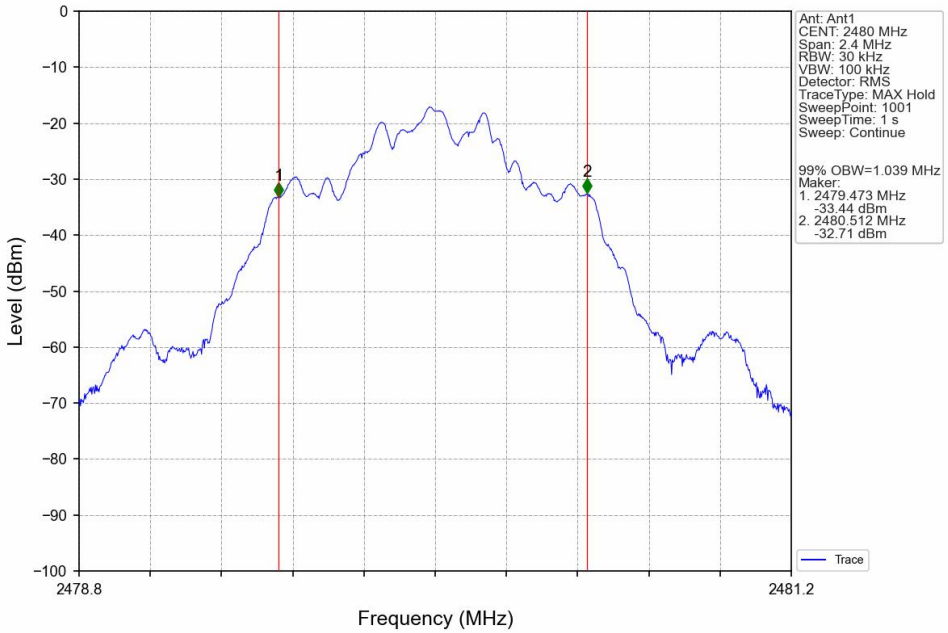
π/4DQPSK_2DH5_2480MHz_Ant1_NTNV



8DPSK_3DH5_2402MHz_Ant1_NTNV



8DPSK_3DH5_2480MHz_Ant1_NTNV



5. Transmitter Unwanted Emissions In The Out-Of-Band Domain

5.1 Test Result

5.1.1 GFSK-Ant1

GFSK Ant1 NTNV								
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Test Freq. (MHz)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
GFSK	SISO	HOPP	DH5	1	2398.500	-69.20	<=-20	Pass
					2399.500	-69.18	<=-10	Pass
		HOPP	DH5	1	2484.000	-68.10	<=-10	Pass
					2485.000	-69.14	<=-20	Pass

5.1.2 π/4DQPSK-Ant1

π/4DQPSK Ant1 NTNV								
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Test Freq. (MHz)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
π/4DQPSK	SISO	HOPP	2DH5	1	2398.118	-68.15	<=-20	Pass
					2398.309	-69.16	<=-20	Pass
					2399.309	-69.22	<=-10	Pass
					2399.500	-69.45	<=-10	Pass
		HOPP	2DH5	1	2484.000	-69.32	<=-10	Pass
					2484.191	-69.21	<=-10	Pass
					2485.191	-69.32	<=-20	Pass
					2485.382	-68.84	<=-20	Pass

5.1.3 8DPSK-Ant1

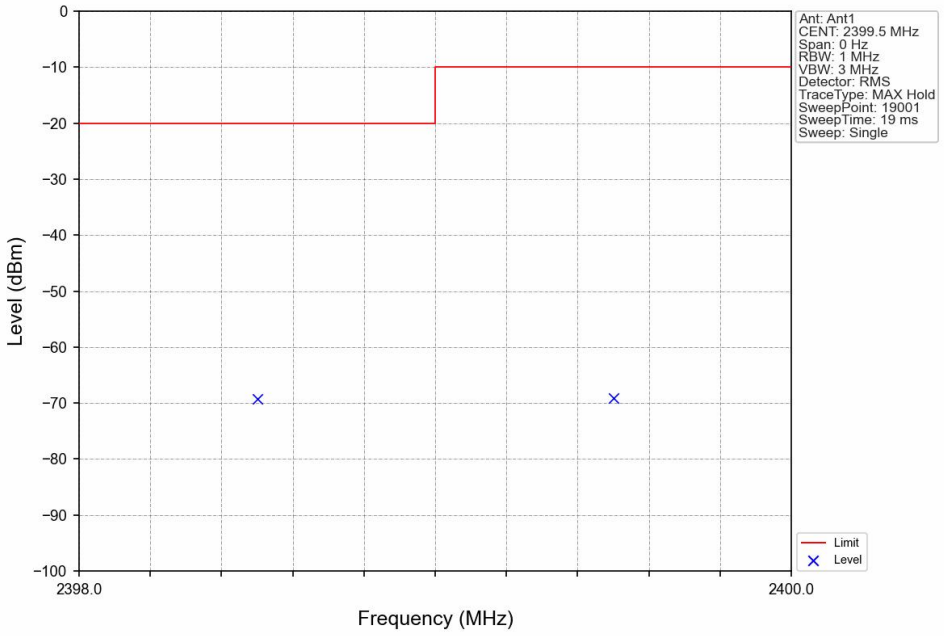
8DPSK Ant1 NTNV								
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Test Freq. (MHz)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
8DPSK	SISO	HOPP	3DH5	1	2398.422	-69.80	<=-20	Pass
					2398.461	-69.77	<=-20	Pass
					2399.461	-69.80	<=-10	Pass
					2399.500	-69.71	<=-10	Pass
		HOPP	3DH5	1	2484.000	-69.47	<=-10	Pass
					2484.039	-69.47	<=-10	Pass
					2485.039	-69.51	<=-20	Pass
					2485.078	-69.47	<=-20	Pass

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Tel: (86)-755-2357-9714 Email: Service@eu-test.com

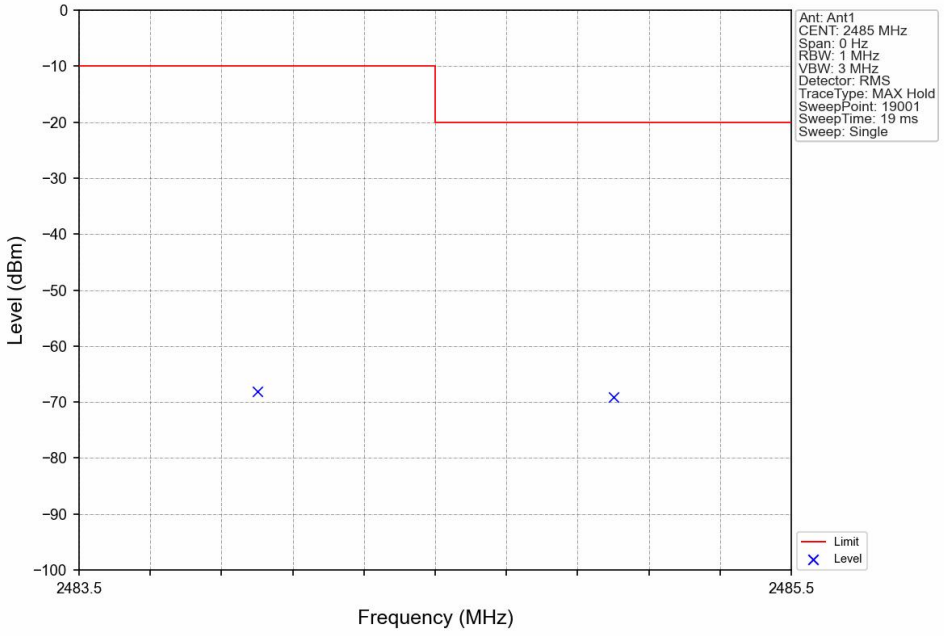
5.2 Test Graph

5.2.1 GFSK-Ant1

GFSK_DH5_HOPP_Ant1_NTNV

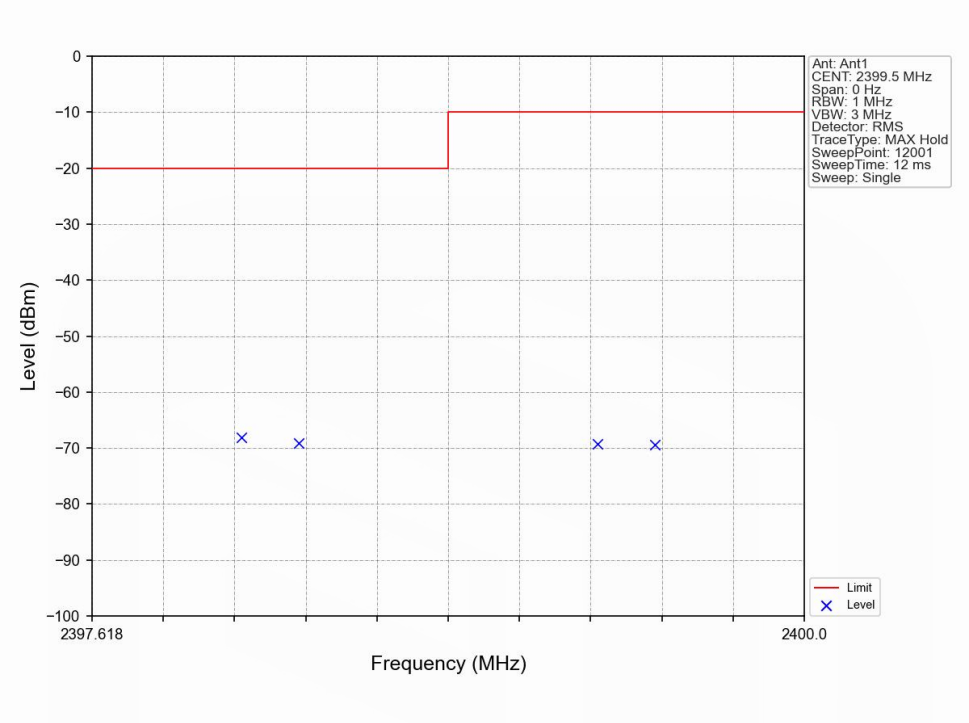


GFSK_DH5_HOPP_Ant1_NTNV

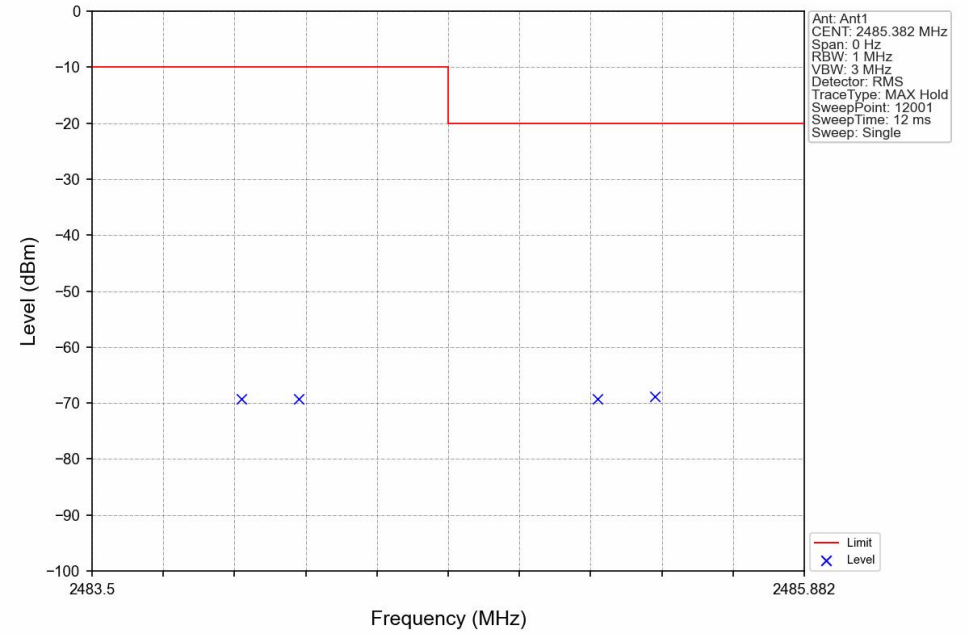


5.2.2 π/4DQPSK-Ant1

π/4DQPSK_2DH5_HOPP_Ant1_NTNV

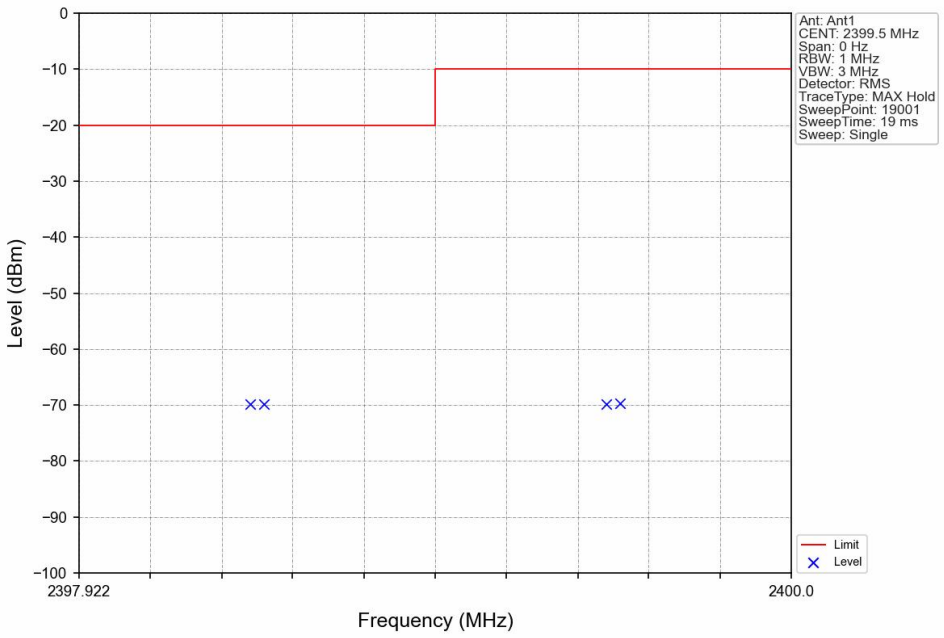


π/4DQPSK_2DH5_HOPP_Ant1_NTNV

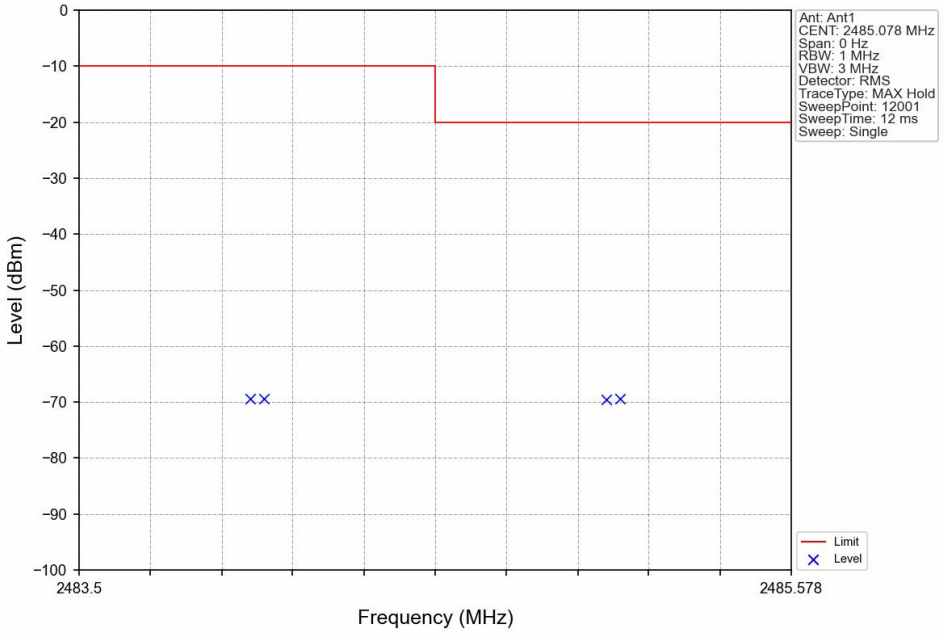


5.2.3 8DPSK-Ant1

8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



6. Transmitter Unwanted Emissions In The Spurious Domain

6.1 Test Result

6.1.1 TxSe

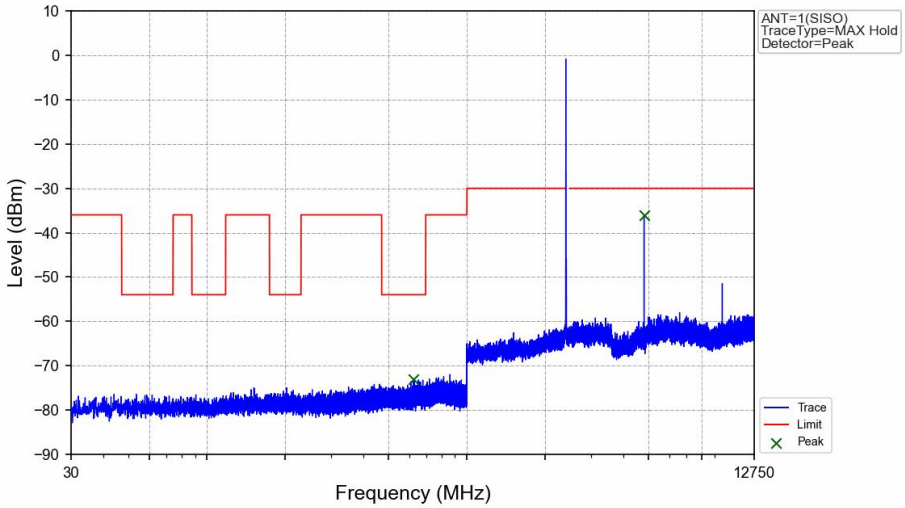
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Test Result	Limit	Verdict
NTNV	GFSK	SISO	2402	DH5	1	Refer To Test Graph		Pass
			2480	DH5	1	Refer To Test Graph		Pass
	π/4DQPSK	SISO	2402	2DH5	1	Refer To Test Graph		Pass
			2480	2DH5	1	Refer To Test Graph		Pass
	8DPSK	SISO	2402	3DH5	1	Refer To Test Graph		Pass
			2480	3DH5	1	Refer To Test Graph		Pass

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6.2 Test Graph

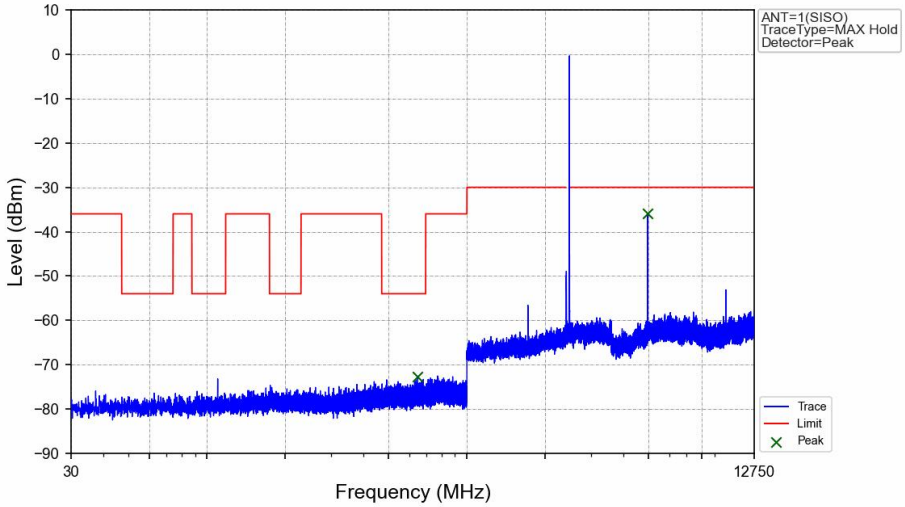
6.2.1 TxSe

GFSK_DH5_2402MHz_Ant1_NTNV



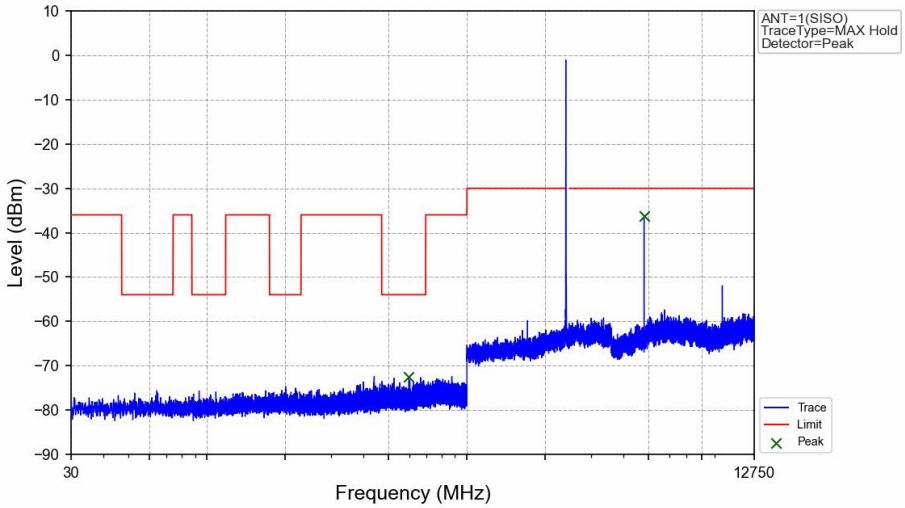
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.3	623.650	-73.03	/	-54	Pass
1000	12750	1	3	4805.000	-36.08	/	-30	Pass

GFSK_DH5_2480MHz_Ant1_NTNV



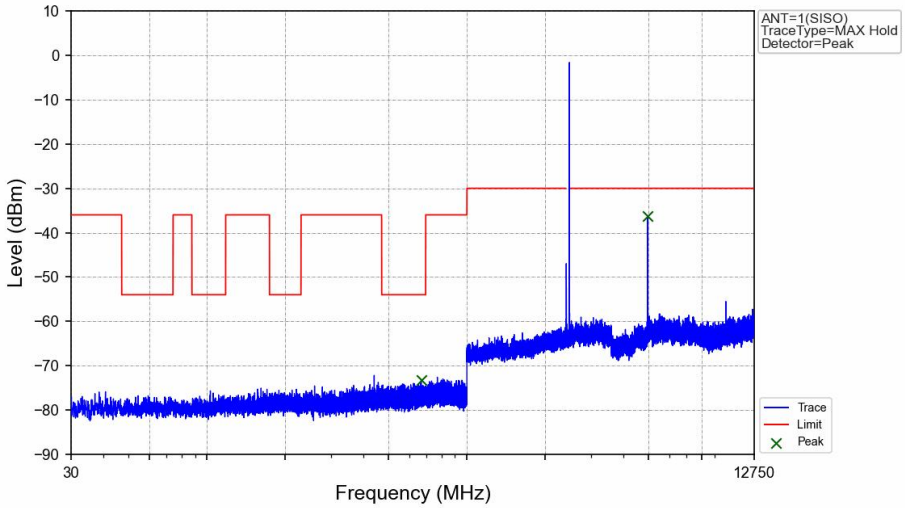
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.3	647.250	-72.76	/	-54	Pass
1000	12750	1	3	4960.500	-35.89	/	-30	Pass

π/4DQPSK_2DH5_2402MHz_Ant1_NTNV



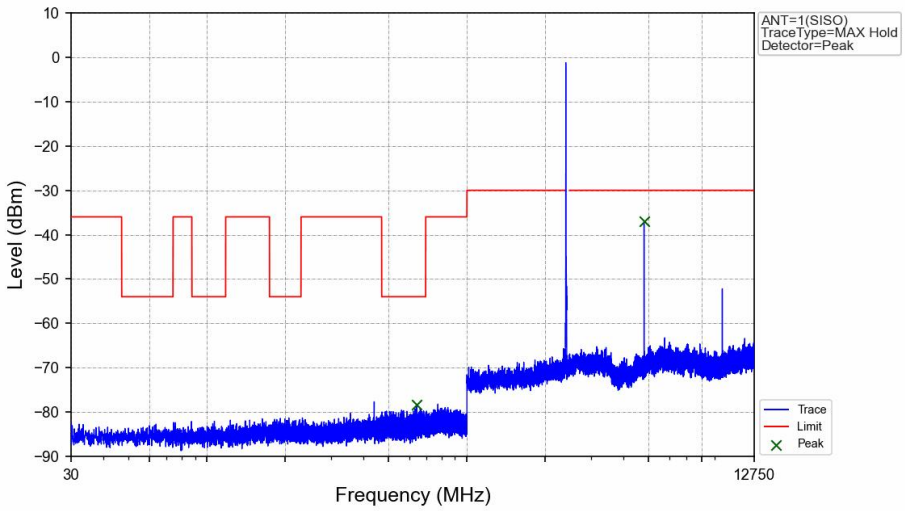
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.3	598.550	-72.55	/	-54	Pass
1000	12750	1	3	4804.500	-36.31	/	-30	Pass

π/4DQPSK_2DH5_2480MHz_Ant1_NTNV



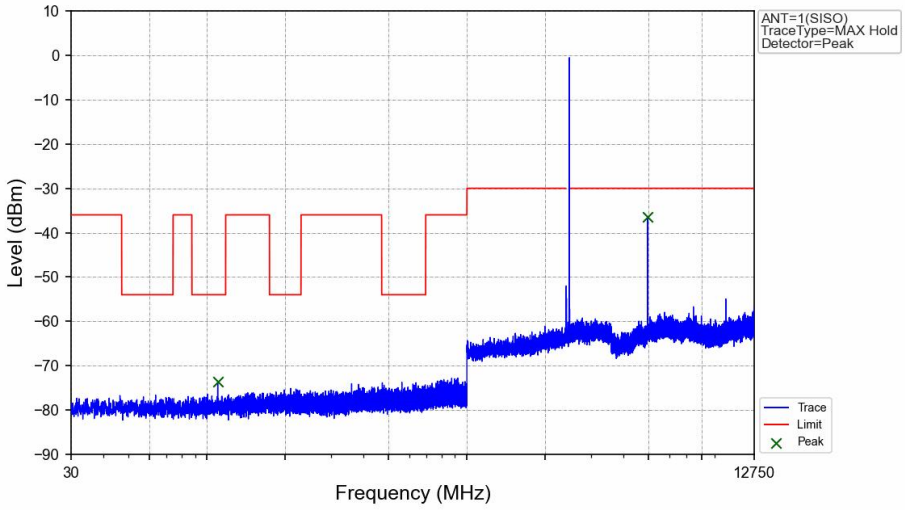
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.3	667.150	-73.32	/	-54	Pass
1000	12750	1	3	4960.500	-36.33	/	-30	Pass

8DPSK_3DH5_2402MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.3	641.650	-78.32	/	-54	Pass
1000	12750	1	3	4804.500	-36.94	/	-30	Pass

8DPSK_3DH5_2480MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.3	110.000	-73.69	/	-54	Pass
1000	12750	1	3	4961.000	-36.37	/	-30	Pass

7. Receiver Spurious Emissions

7.1 Test Result

7.1.1 RxSe

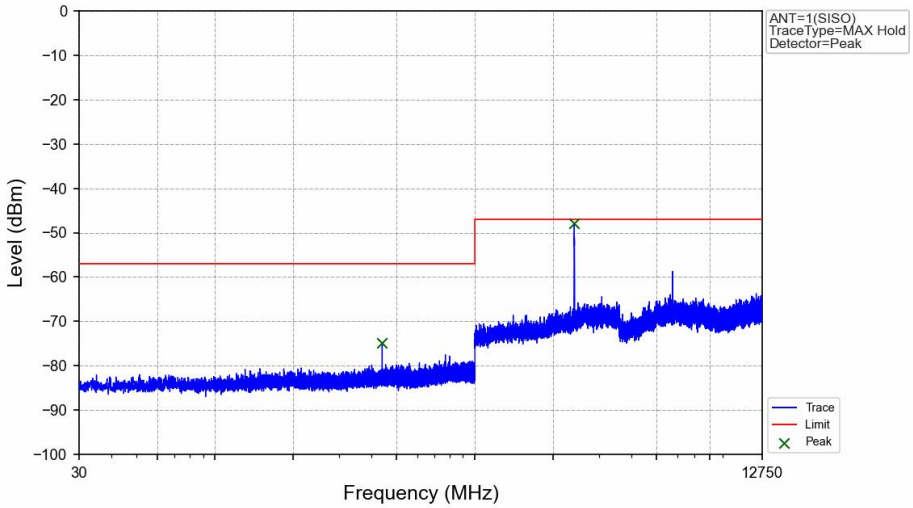
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Test Result	Limit	Verdict
NTNV	GFSK	SISO	2402	DH5	1	Refer To Test Graph		Pass
			2480	DH5	1	Refer To Test Graph		Pass
	π/4DQPSK	SISO	2402	2DH5	1	Refer To Test Graph		Pass
			2480	2DH5	1	Refer To Test Graph		Pass
	8DPSK	SISO	2402	3DH5	1	Refer To Test Graph		Pass
			2480	3DH5	1	Refer To Test Graph		Pass

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7.2 Test Graph

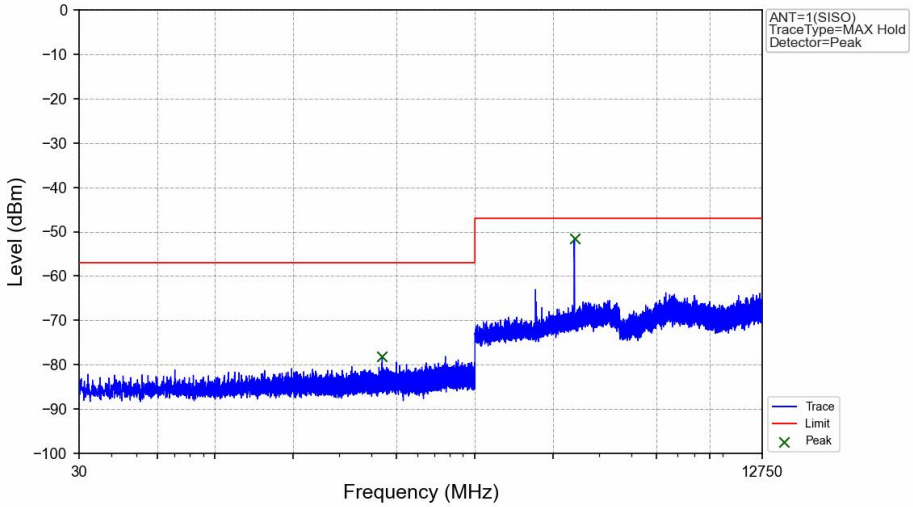
7.2.1 RxSe

GFSK_DH5_2402MHz_Ant1_NTNV



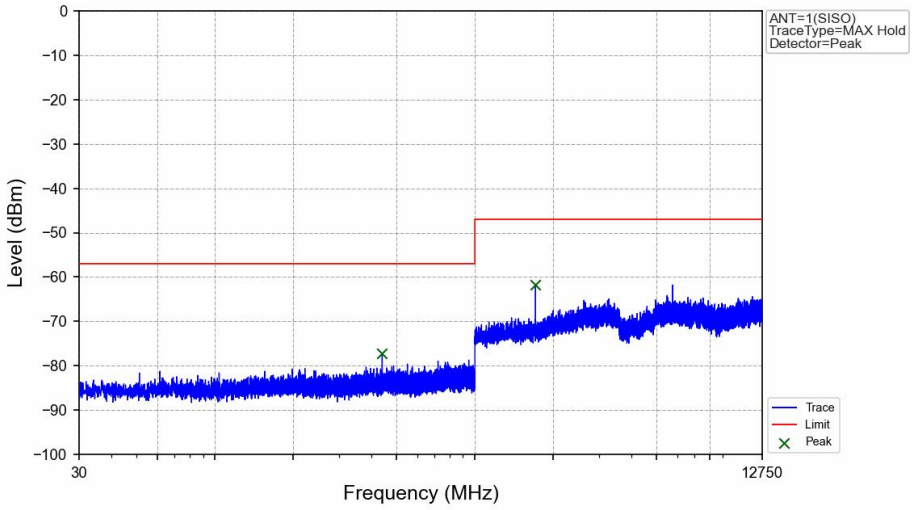
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.3	440.000	-74.78	/	-57	Pass
1000	12750	1	3	2413.000	-47.90	/	-47	Pass

GFSK_DH5_2480MHz_Ant1_NTNV



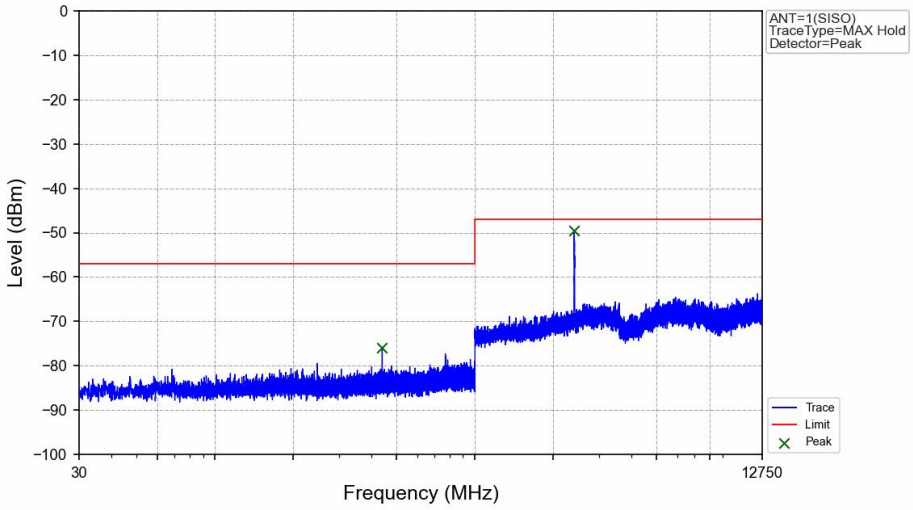
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.3	440.000	-78.06	/	-57	Pass
1000	12750	1	3	2417.000	-51.52	/	-47	Pass

π/4DQPSK_2DH5_2402MHz_Ant1_NTNV



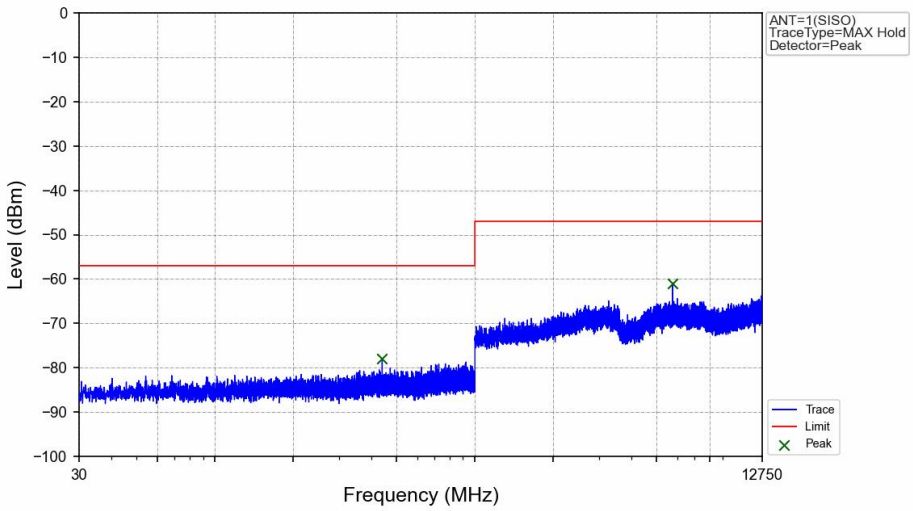
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.3	440.000	-77.30	/	-57	Pass
1000	12750	1	3	1711.500	-61.67	/	-47	Pass

π/4DQPSK_2DH5_2480MHz_Ant1_NTNV



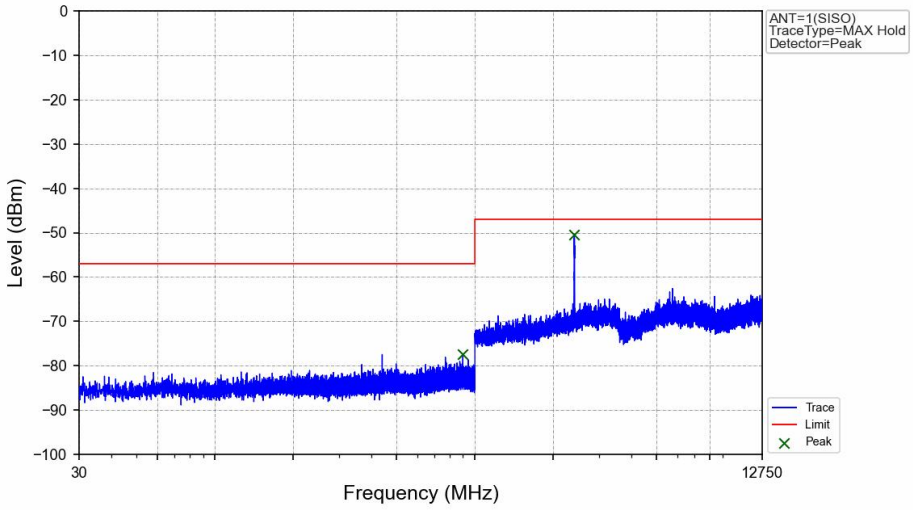
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.3	440.000	-75.94	/	-57	Pass
1000	12750	1	3	2411.000	-49.57	/	-47	Pass

8DPSK_3DH5_2402MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.3	440.000	-77.90	/	-57	Pass
1000	12750	1	3	5758.500	-61.04	/	-47	Pass

8DPSK_3DH5_2480MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.3	899.200	-77.43	/	-57	Pass
1000	12750	1	3	2412.500	-50.38	/	-47	Pass

8. Receiver Blocking

Ant1									
ENV	Mode	TX Type	Frequency (MHz)	Wanted signal level (dBm)	Blocking Signal		PER (%)	Limit (%)	Verdict
					Frequency (MHz)	Power (dBm)			
NTNV	GFSK	SISO	2402	-66.85	2380	-31.50	0.09	<=10	Pass
					2504		0.10	<=10	Pass
					2300		0.08	<=10	Pass
					2584		0.10	<=10	Pass
			2480	-66.85	2380	-31.50	0.10	<=10	Pass
					2504		0.11	<=10	Pass
					2300		0.08	<=10	Pass
					2584		0.09	<=10	Pass
Note1: Receiver Category =2.									

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