

Prüfbericht-Nr.: Test Report No.:	50356283 001	Auftrags-Nr.: Order No.:	244198254	Seite 1 von 27 Page 1 of 27
Kunden-Referenz-Nr.: Client Reference No.:	244044963	Auftragsdatum: Order date.:	06.01.2020	
Auftraggeber: Client:	Fluke Corporation 6920 Seaway Blvd, EVERETT WA 98203, USA			
Prüfgegenstand: Test item:	Thermal Imager			
Bezeichnung / Typ-Nr.: Identification / Type No.:	TiS55+, TiS75+			
Auftrags-Inhalt: Order content:	Complete test			
Prüfgrundlage: Test specification:	EN 300 328 V2.1.1:2016			
Wareneingangsdatum: Date of receipt:	22.12.2019			
Prüfmuster-Nr.: Test sample No.:	A001046562-001, 002			
Prüfzeitraum: Testing period:	Refer to test report			
Ort der Prüfung: Place of testing:	MRT Technology (Suzhou) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
				
14.07.2020	Hongfei Wu / PE	14.07.2020	Elliot Zhang / Reviewer	
Datum Date	Name/Stellung Name/Position	Unterschrift Signature	Datum Date	Name/Stellung Name/Position
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet		Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested		
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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TEST SUMMARY

5.1.1 RF OUTPUT POWER

RESULT: PASS

5.1.2 POWER SPECTRAL DENSITY

RESULT: PASS

5.1.3 DUTY CYCLE, TX-SEQUENCE, TX-GAP

RESULT: N/A

5.1.4 MEDIUM UTILIZATION FACTOR

RESULT: N/A

5.1.5 ADAPTIVITY

RESULT: N/A

5.1.6 OCCUPIED CHANNEL BANDWIDTH

RESULT: PASS

5.1.7 TRANSMITTER UNWANTED EMISSIONS IN THE OOB DOMAIN

RESULT: PASS

5.1.8 TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

RESULT: PASS

5.2.1 RECEIVER SPURIOUS EMISSIONS

RESULT: PASS

5.2.2 RECEIVER BLOCKING

RESULT: PASS

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1. General Remarks

1.1 Complementary Materials

Null.

1.2 Test Specifications

The following standards were applied.

Table 1: Applied Standard and Test Levels

Radio
EN 300 328 V2.1.1:2016

2. Test Sites

2.1 Test Facilities

MRT Technology (Suzhou) Co., Ltd.

D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China

The used test equipment is in accordance with CISPR 16-1 series standards for measurement of radio interference.

2.2 List of Test and Measurement Instruments

Table 2: List of Test and Measurement Equipment

RF Output Power

Instrument	Manufacturer	Type No.	Asset No.	Cali. Due Date
Power Meter	Agilent	U2021XA	MRTSUE06030	15.11.2020
Programmable Temperature & Humidity Chamber	BAOYT	BYH-1500L	MRTSUE06051	15.11.2020
Thermohygrometer	Testo	608-H1	MRTSUE06401	08.08.2020

Power Spectral Density, Occupied Channel Bandwidth, Transmitter Unwanted Emissions in the OOB Domain

Instrument	Manufacturer	Type No.	Asset No.	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MRTSUE06106	15.04.2020
Thermohygrometer	Testo	608-H1	MRTSUE06401	08.08.2020

Receiver Blocking

Instrument	Manufacturer	Type No.	Asset No.	Cali. Due Date
Vector Signal Generator	Agilent	E4438C	MRTSUE06026	15.11.2020
Spectrum Analyzer	Agilent	N9020A	MRTSUE06106	15.04.2020
EXA Signal Analyzer	Keysight	N9010B	MRTSUE06457	18.07.2020
Directional Coupler	Narda	4216-20	MRTSUE06065	26.03.2020
Wideband Radio Communication Tester	R&S	CMW 500	MRTSUE06243	15.11.2020
Power Splitter	Mini-Circuits	ZFRSC-123-S+	MRTSUE06122	N/A
Thermohygrometer	Testo	608-H1	MRTSUE06402	08.08.2020

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Transmitter Unwanted Emissions in the Spurious Domain, Receiver Spurious Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Due Date
EMI Test Receiver	R&S	ESR7	MRTSUE06001	01.08.2020
PXA Signal Analyzer	Keysight	N9030B	MRTSUE06395	24.09.2020
Microwave System Amplifier	Agilent	83017A	MRTSUE06076	15.11.2020
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	11.06.2020
Bilog Period Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	30.03.2020
Broad Band Horn Antenna	Schwarzbeck	BBHA9120D	MRTSUE06023	18.10.2020
Thermohygrometer	Testo	608-H1	MRTSUE06403	08.08.2020
Anechoic Chamber	TDK	Chamber-AC1	MRTSUE06212	30.04.2020

2.3 Measurement Uncertainty

Table 3: Emission Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	± 5 %
RF output power, conducted	± 1.5 dB
Power Spectral Density, conducted	± 3 dB
Unwanted Emissions, conducted	± 3 dB
All emissions, radiated	± 6 dB
Temperature	± 5 °C
Supply voltages	± 3 %
Time	± 5 %

3. General Product Information

3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is a thermal imager which contains Wi-Fi and Bluetooth 4.2 module.

The aim of this report is to evaluate RF character of Bluetooth LE of the EUT..
For details refer to the User Manual and Circuit Diagram.

3.2 System Details

Table 4: Technical Specification of EUT

General Description of EUT	
Product Name:	Thermal Imager
Model No.:	TiS55+, TiS75+
Operation Voltage:	DC 7.2V (Li-ion)
operating temperature:	-10~50 °C
Technical Specification of 2.4GHz Wi-Fi	
Frequency Range:	2412 - 2472MHz
Modulation Type:	802.11b: DSSS 802.11g/n-HT20: OFDM
Antenna Type:	Internal Antenna
Antenna Gain:	3.2 dBi
Receiver Category:	1
Technical Specification of Bluetooth LE	
Frequency Range:	2402 - 2480MHz
Modulation Type:	GFSK
Antenna Type:	Internal Antenna
Antenna Gain:	3.2 dBi
Receiver Category:	2
Technical Specification of Bluetooth BR/EDR	
Frequency Range:	2402 - 2480MHz
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Antenna Type:	Internal Antenna
Antenna Gain:	3.2 dBi
Receiver Category:	2

Note:

The above two models are same in hardware, the difference of them is only software that will not influence on RF performance. So, TiS75+ was chosen for RF test.

3.3 Independent Operation Modes

Table 5: Independent Operation Modes

Test Mode			Channel Number	Channel Frequency [MHz]
Tx	Rx	Normal		
TM1	TM4	TM7	0	2402
TM2	TM5	TM8	19	2440
TM3	TM6	TM9	39	2480

Note: The EUT was set into continuous transmitting or receiving mode in Tx or Rx testing.

3.4 Noise Suppressing Parts

Refer to schematics.

4. Test Set-up and Operation Modes

4.1 Test Methodology

Radio: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Physical Configuration for Testing

The EUT was designed to get into related working mode with the control of computer.
Notes:

For antenna conducted measurements, the antenna was replaced by a 50Ω antenna connector.

For antenna radiated measurements, the associated cables and computer were removed.

For more details, refer to section: Photographs of the Test Set-Up.

4.3 Test Operation and Test Software

Test software: DutApiWiFi8801BrdigeEth

Table 6: Power parameter value

Channel Frequency [MHz]	Power Parameter Value
2402	default
2440	default
2480	default

4.4 Special Accessories and Auxiliary Equipment

Null.

4.5 Countermeasures to achieve EMC Compliance

Null.

5. Test Results RADIO

5.1 Transmitter Parameters

5.1.1 RF output power

RESULT:
PASS

Date of testing : 08.01.2020
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa
 Test requirement : EN 300 328 V2.1.1:2016, clause 4.3.2.2
 Test procedure : EN 300 328 V2.1.1:2016, clause 5.4.2.2
 Normal test voltage : DC 7.2V
 Low test temperature : -10°C
 Normal test temperature : 25°C
 High test temperature : 50°C
 Test modes applied : TM1, TM2, TM3

Table 7: RF output power

Temp. [°C]	Test Mode	Antenna Gain [dBi]	Ch. No.	Freq. [MHz]	RF Output Power [dBm]	E.I.R.P [dBm]	Limit [dBm]
25	TM1	3.2	0	2402	6.76	9.96	20.00
	TM2		19	2440	6.65	9.85	20.00
	TM3		39	2480	6.53	9.73	20.00
-10	TM1		0	2402	6.59	9.79	20.00
	TM2		19	2440	6.57	9.77	20.00
	TM3		39	2480	6.39	9.59	20.00
50	TM1		0	2402	6.70	9.90	20.00
	TM2		19	2440	6.59	9.79	20.00
	TM3		39	2480	6.31	9.51	20.00

Note:

 $E.I.R.P = P_{burst} + \text{Antenna Gain.}$
 P_{burst} : The highest burst power value measured in observant duration.

5.1.2 Power Spectral Density

RESULT:**PASS**

Date of testing : 08.01.2020
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa
Test requirement : EN 300 328 V2.1.1:2016, clause 4.3.2.3
Test procedure : EN 300 328 V2.1.1:2016, clause 5.4.3.2
Normal test voltage : DC 7.2V
Test modes applied : TM1, TM2, TM3

Table 8: Power spectral density

Test Mode	Ch. No.	Freq. [MHz]	Total PSD [dBm/MHz]	Limit [dBm/MHz]
TM1	0	2402	9.77	10.00
TM2	19	2440	9.66	10.00
TM3	39	2480	9.54	10.00

5.1.3 Duty Cycle, Tx-sequence, Tx-gap**RESULT:****N/A**

Test requirement : EN 300 328 V2.1.1:2016, clause 4.3.2.4

Note:

These requirements apply to non-adaptive equipment or to adaptive equipment when operating in a non-adaptive mode.

These requirements do not apply for equipment with a maximum declared RF Output power level of less than 10 dBm e.i.r.p. or for equipment when operating in a mode where the RF Output power is less than 10 dBm e.i.r.p.

Therefore, these measurements are not required.

5.1.4 Medium Utilization Factor

RESULT:**N/A**

Test requirement : EN 300 328 V2.1.1:2016, clause 4.3.2.5

Note:

This requirement does not apply to adaptive equipment unless operating in a non-adaptive mode.

This requirement does not apply for equipment with a maximum declared RF Output power level of less than 10 dBm e.i.r.p. or for equipment when operating in a mode where the RF Output power is less than 10 dBm e.i.r.p.

Therefore, assessment of the Medium Utilisation Factor is not required.

5.1.5 Adaptivity

RESULT:**N/A**

Test requirement : EN 300 328 V2.1.1:2016, clause 4.3.2.6

Note:

This requirement does not apply to adaptive equipment unless operating in a non-adaptive mode.

This requirement does not apply for equipment with a maximum declared RF Output power level of less than 10 dBm e.i.r.p. or for equipment when operating in a mode where the RF Output power is less than 10 dBm e.i.r.p.

Therefore, assessment of Adaptivity is not required.

5.1.6 Occupied Channel Bandwidth

RESULT:**PASS**

Date of testing : 08.01.2020
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa
Test requirement : EN 300 328 V2.1.1:2016, clause 4.3.2.7
Test procedure : EN 300 328 V2.1.1:2016, clause 5.4.7.2
Normal test voltage : DC 7.2V
Test modes applied : TM1, TM3

Table 9: Occupied channel bandwidth

Test Mode	Frequency [MHz]	99% Bandwidth [MHz]	Verdict
TM1	2402	1.0379	PASS
TM3	2480	1.0367	PASS

Note:

The Occupied Channel Bandwidth for each frequency shall fall completely within the band given in clause 1 '2,4 GHz to 2,4835 GHz'.

Figure 1: Occupied Channel Bandwidth, TM1

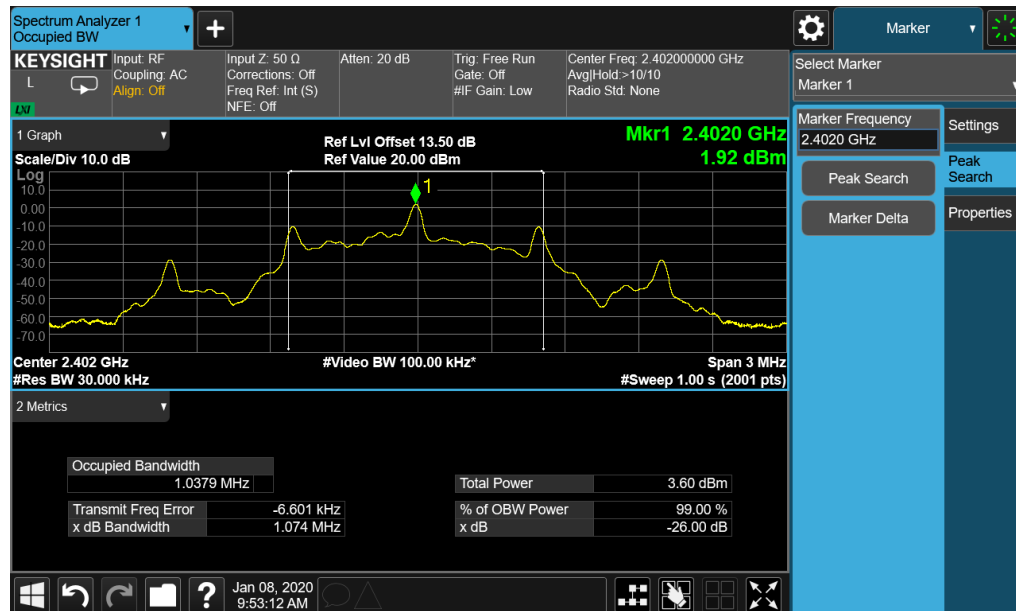
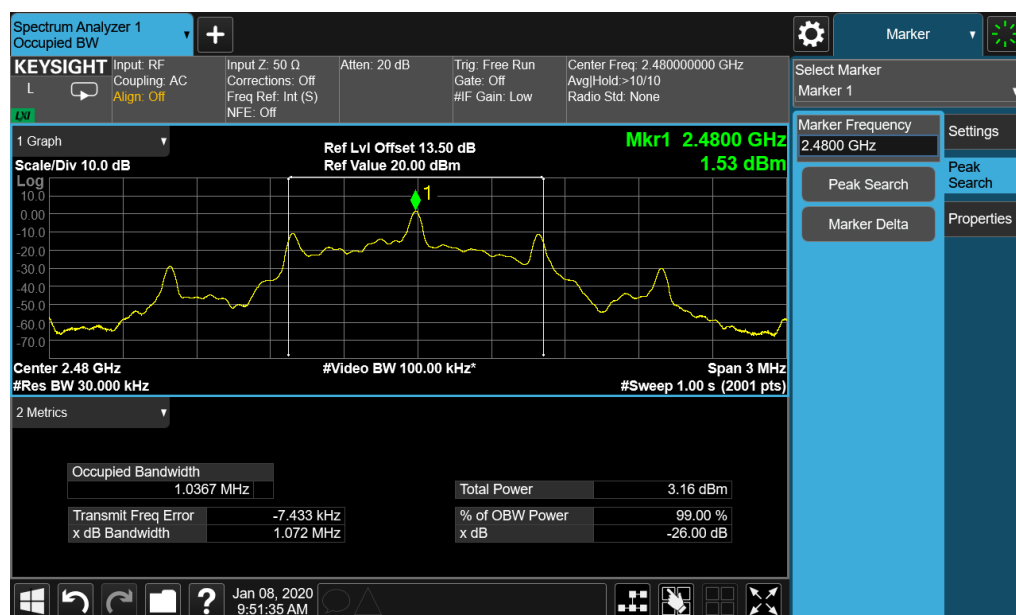


Figure 2: Occupied Channel Bandwidth, TM3



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5.1.7 Transmitter unwanted emissions in the OOB domain
RESULT:
PASS

Date of testing : 08.01.2020
 Ambient temperature : 25°C
 Relative humidity : 54%
 Atmospheric pressure : 101kPa
 Test requirement : EN 300 328 V2.1.1:2016, clause 4.3.2.8
 Test procedure : EN 300 328 V2.1.1:2016, clause 5.4.8.2
 Normal test voltage : DC 7.2V
 Test modes applied : TM1, TM3

Table 10: Transmitter unwanted emissions in the OOB domain

Mode	Domain	Frequency [MHz]	Reading Values [dBm/MHz]	Gain [dBi]	Max measured Values [dBm/MHz]	Limit [dBm/MHz]
TM1	2400-2BW ~ 2400-BW	2398.46	-54.08	3.2	-50.88	-20
	2400-BW ~ 2400	2399.50	-50.98		-47.78	-10
TM3	2483.5 ~ 2483.5+BW	2484.00	-54.87		-51.67	-10
	2483.5+BW ~ 2483.5+2BW	2485.04	-55.45		-52.25	-20

Note:
Max measured Values = Reading Values + Antenna gain

5.1.8 Transmitter unwanted emissions in the spurious domain

RESULT:
PASS

Date of testing : 22.01.2020
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa
 Test requirement : EN 300 328 V2.1.1:2016, clause 4.3.2.9
 Test procedure : EN 300 328 V2.1.1:2016, clause 5.4.9.2
 Test frequency range : 30MHz to 12.75GHz
 Normal test voltage : DC 7.2V
 Test modes applied : TM1, TM3

Table 11: Transmitter unwanted emissions in the spurious domain

Mode	Freq. [MHz]	Measure Level [dBm]	Reading Level [dBm]	Over Limit [dB]	Limit [dBm]	Correct Factor [dB]	Detector Type	Pol.
TM1	629.945	-60.421	-90.905	-6.421	-54.000	30.484	PK	H
	728.885	-61.435	-94.492	-7.435	-54.000	33.057	PK	
	4807.000	-52.127	-69.178	-22.127	-30.000	17.051	PK	
	8167.500	-46.383	-72.401	-16.383	-30.000	26.018	PK	
	89.260	-64.236	-95.640	-10.236	-54.000	31.404	RMS	V
	792.560	-64.188	-97.450	-10.188	-54.000	33.262	RMS	
	4801.125	-53.262	-70.144	-23.262	-30.000	16.882	PK	
	5993.750	-50.466	-70.193	-20.466	-30.000	19.727	PK	
TM3	528.095	-61.937	-92.430	-7.937	-54.000	30.493	PK	H
	620.890	-64.470	-94.560	-10.470	-54.000	30.090	RMS	
	4959.750	-51.972	-68.969	-21.972	-30.000	16.997	PK	
	7685.750	-46.582	-72.125	-16.582	-30.000	25.543	PK	
	88.630	-63.744	-94.850	-9.744	-54.000	31.106	RMS	V
	792.680	-64.401	-97.660	-10.401	-54.000	33.259	RMS	
	4959.750	-52.233	-69.228	-22.233	-30.000	16.995	PK	
	7503.625	-47.516	-73.279	-17.516	-30.000	25.763	PK	

5.2 Receiver Parameters

5.2.1 Receiver Spurious Emissions

RESULT:
PASS

Date of testing : 22.01.2020
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa
 Test requirement : EN 300 328 V2.1.1:2016, clause 4.3.2.10
 Test procedure : EN 300 328 V2.1.1:2016, clause 5.4.10.2
 Normal test voltage : DC 7.2V
 Test modes applied : TM4, TM6

Table 12: Receiver Spurious Emissions

Mode	Freq. [MHz]	Measure Level [dBm]	Reading Level [dBm]	Over Limit [dB]	Limit [dBm]	Correct Factor [dB]	Detector Type	Pol.
TM4	288.400	-63.432	-87.290	-6.432	-57.000	23.858	RMS	H
	864.510	-61.776	-96.140	-4.776	-57.000	34.364	RMS	
	1082.250	-55.098	-61.604	-8.098	-47.000	6.506	PK	
	1581.625	-55.785	-64.657	-8.785	-47.000	8.872	PK	
	792.310	-65.184	-98.450	-8.184	-57.000	33.266	RMS	V
	864.580	-64.901	-98.850	-7.901	-57.000	33.949	RMS	
	1082.250	-53.499	-59.422	-6.499	-47.000	5.923	PK	
	1440.625	-53.655	-62.738	-6.655	-47.000	9.083	PK	
TM6	324.610	-62.427	-87.530	-5.427	-57.000	25.103	RMS	H
	865.240	-63.158	-97.510	-6.158	-57.000	34.352	RMS	
	1287.875	-57.129	-65.745	-10.129	-47.000	8.616	PK	
	2233.750	-56.213	-68.590	-9.213	-47.000	12.377	PK	
	792.450	-65.616	-98.880	-8.616	-57.000	33.264	RMS	V
	864.360	-64.658	-98.630	-7.658	-57.000	33.972	RMS	
	1082.250	-54.151	-60.074	-7.151	-47.000	5.923	PK	
	1440.625	-55.541	-64.624	-8.541	-47.000	9.083	PK	

5.2.2 Receiver Blocking

RESULT:
PASS

Date of testing : 09.01.2020
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa
 Test requirement : EN 300 328 V2.1.1:2016, clause 4.3.2.11
 Test procedure : EN 300 328 V2.1.1:2016, clause 5.4.11.2
 Normal test voltage : DC 7.2V
 Test modes applied : TM7, TM9

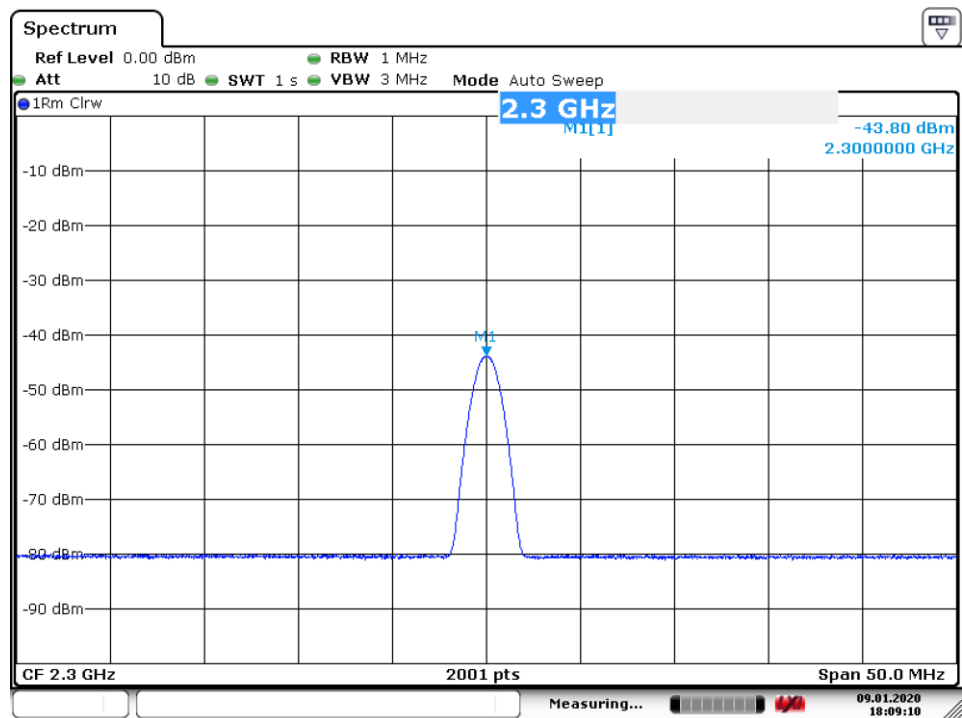
Table 13: Receiver Blocking, TM7

P _{min} [dBm]	Wanted signal mean power from companion device [dBm]	Blocking signal frequency [MHz]	Blocking signal power [dBm]	PER [%]	Limit [%]	Verdict
-94	-88	2300	-43.8	1.3	10	Pass
		2380	-53.8	4.7	10	Pass
		2503.5	-53.8	2.6	10	Pass
		2583.5	-43.8	0.7	10	Pass

Table 14: Receiver Blocking, TM9

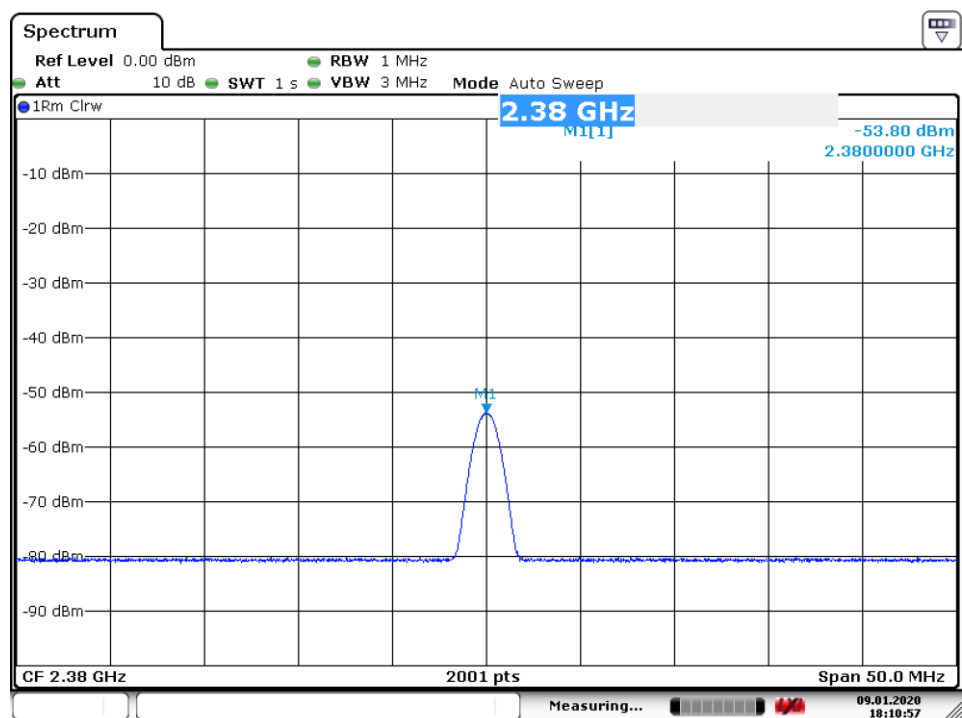
P _{min} [dBm]	Wanted signal mean power from companion device [dBm]	Blocking signal frequency [MHz]	Blocking signal power [dBm]	PER [%]	Limit [%]	Verdict
-89	-83	2300	-43.8	0.1	10	Pass
		2380	-53.8	0.1	10	Pass
		2503.5	-53.8	0	10	Pass
		2583.5	-43.8	0	10	Pass

Figure 3: Blocking Signal, 2300MHz



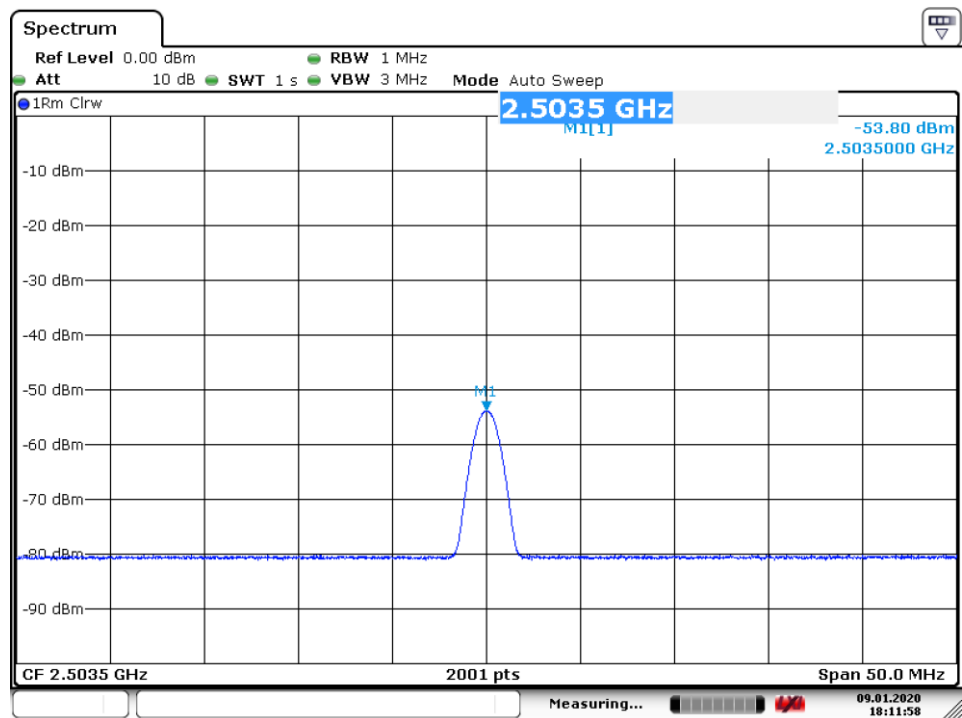
Date: 9.JAN.2020 18:09:10

Figure 4: Blocking Signal, 2380MHz



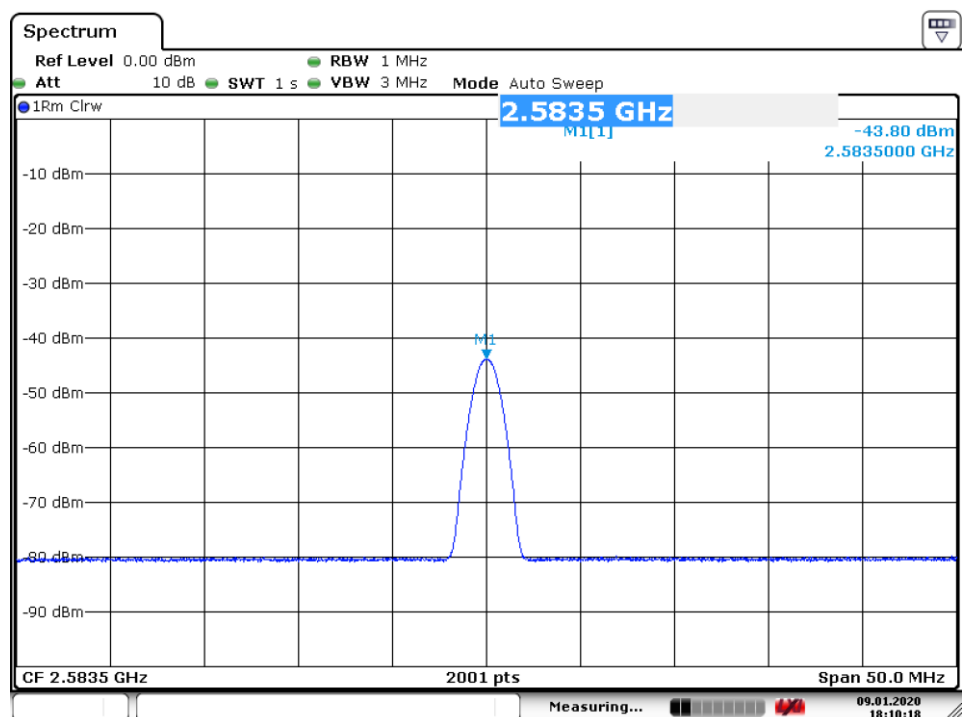
Date: 9.JAN.2020 18:10:57

Figure 5: Blocking Signal, 2503.5MHz



Date: 9.JAN.2020 18:11:58

Figure 6: Blocking Signal, 2583.5MHz



Date: 9.JAN.2020 18:10:18

6. Photographs of the Sample and Test Setup

Photograph 1: EUT Photo



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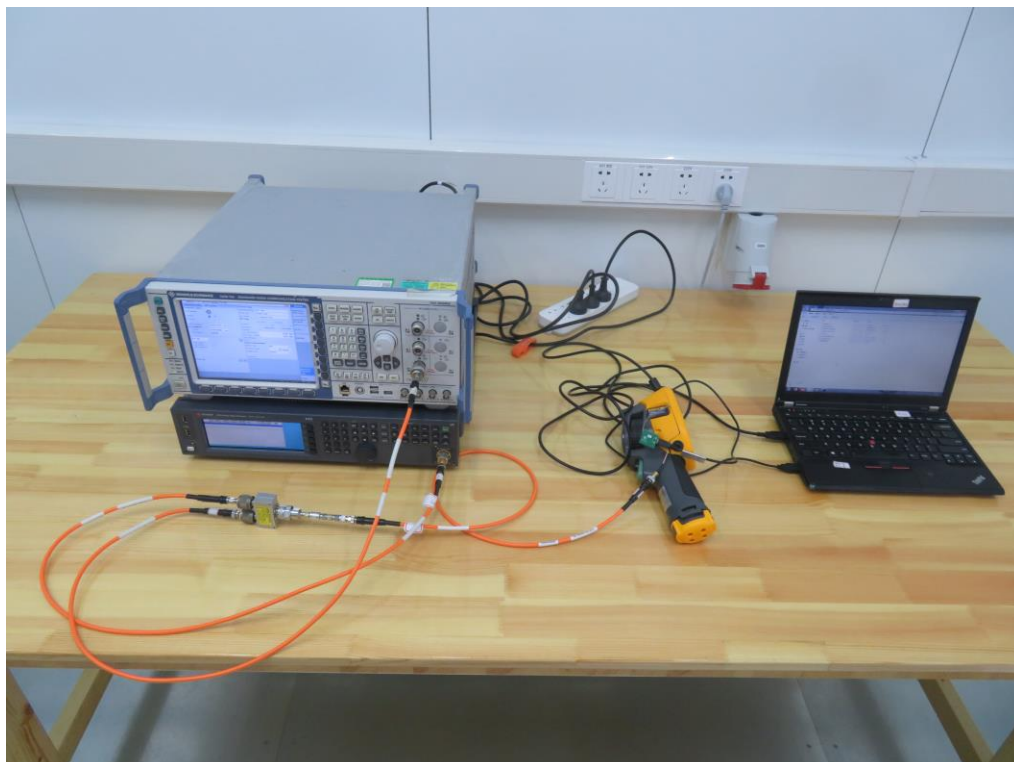
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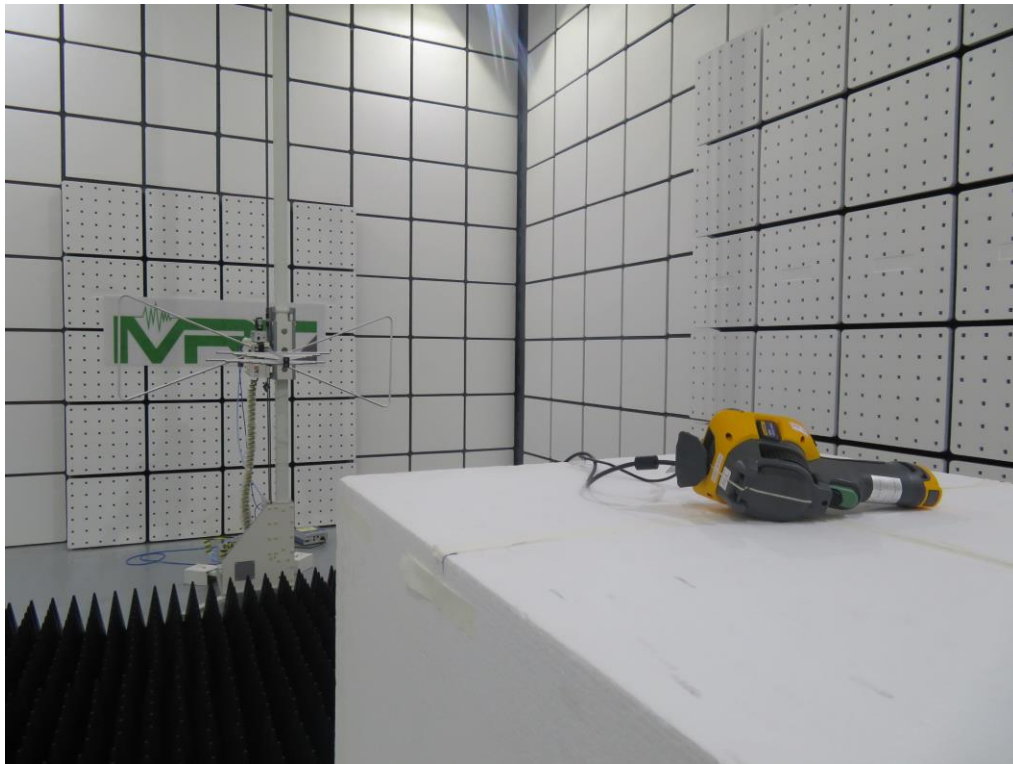
Photograph 2: Set-up for Conducted Test at Antenna Port



Photograph 3: Set-up for Blocking Test



Photograph 4: Set-up for Radiated Spurious Emission, below 1GHz



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