

TEST REPORT

Reference No..... : WTX20X09067984W-2
FCC ID : 2AKIT-HM2-G01
Applicant : Lumi United Technology Co., Ltd.
Address..... : 8th Floor, JinQi Wisdom Valley, No.1 Tangling Road, Liuxian Ave, Taoyuan Residential District, Nanshan District, Shenzhen.China
Product Name : Hub M2
Test Model. : HM2-G01
Standards : FCC Part 15.247
Date of Receipt sample : Sept.18, 2020
Date of Test..... : Sept.18, 2020 to Nov. 06, 2020
Date of Issue : Nov. 06, 2020
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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Report version

Version No.	Date of issue	Description
Rev.00	Nov. 06, 2020	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Lumi United Technology Co., Ltd.
 Address of applicant: 8th Floor, JinQi Wisdom Valley, No.1 Tangling Road, Liuxian Ave, Taoyuan Residential District, Nanshan District, Shenzhen.China

Manufacturer: Lumi United Technology Co., Ltd.
 Address of manufacturer: 8th Floor, JinQi Wisdom Valley, No.1 Tangling Road, Liuxian Ave, Taoyuan Residential District, Nanshan District, Shenzhen.China

General Description of EUT	
Product Name:	Hub M2
Trade Name	Aqara
Model No.:	HM2-G01
Adding Model(s):	/
Rated Voltage:	DC 5V 1A Or DC 5V 2A
Power Adapter:	/
Software Version:	V1.1.0
Hardware Version:	3.0.6_0005.0515
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Bluetooth Version:	V5.0 (BLE mode)
Frequency Range:	2402-2480MHz
RF Output Power:	7.29dBm (Conducted)
Modulation:	GFSK
Quantity of Channels:	40
Channel Separation:	2MHz
Type of Antenna:	PCB Antenna
Antenna Gain:	0dBi

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under section 15.247 of the Fcc rules.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

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

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, KDB 558074 D01 15.247 Meas Guidance v05r02.

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	Low	2402MHz
TM2	Middle	2440MHz
TM3	High	2480MHz

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	50~55 %.
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
USB Cable	1.54	Unshielded	Without Ferrite

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Wireless switch T1	Lumi	WXKG13LM	/
Mobile phone	HUAWEI	VOG-AL00	/
Notebook	Lenovo	E445	EB12648265
Adapter	HONOTO	ADS-5RE-06 05050EPCN	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Power Spectral Density	Conducted	$\pm 1.8\text{dB}$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Conducted Emissions	Conducted	9-150kHz $\pm 3.74\text{dB}$
		0.15-30MHz $\pm 3.34\text{dB}$
Transmitter Spurious Emissions	Radiated	30-200MHz $\pm 4.52\text{dB}$
		0.2-1GHz $\pm 5.56\text{dB}$
		1-6GHz $\pm 3.84\text{dB}$
		6-26GHz $\pm 3.92\text{dB}$

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2020-04-28	2021-04-27
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2020-04-28	2021-04-27
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2020-04-28	2021-04-27
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2020-04-28	2021-04-27
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2020-04-28	2021-04-27
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2019-05-05	2021-05-04
SEMT-1042	Horn Antenna	ETS	3117	00086197	2019-05-05	2021-05-04
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2019-05-05	2021-05-04
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2019-05-05	2021-05-04
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2020-04-28	2021-04-27
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2020-04-28	2021-04-27
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2020-04-28	2021-04-27
SEMT-1168	Pre-amplifier	Direction Systems Inc.	PAP-0126	14141-12838	2020-04-28	2021-04-27
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2020-04-28	2021-04-27
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2020-04-28	2021-04-27
SEMT-1170	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2019-05-05	2021-05-04
SEMT-1166	Power Limiter	Agilent	N9356B	MY45450376	2020-04-28	2021-04-27
SEMT-1048	RF Limiter	ATTEN	AT-BSF-2400~2500	/	2020-04-28	2021-04-27
SEMT-1076	RF Switcher	Top Precision	RCS03-A2	/	2020-04-28	2021-04-27
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	2020-03-17	2021-03-16
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	2020-03-17	2021-03-16
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	2020-03-17	2021-03-16
SEMT-C004	Cable	Zheng DI	2M0RFC	/	2020-03-17	2021-03-16
SEMT-C005	Cable	Zheng DI	1M0RFC	/	2020-03-17	2021-03-16
SEMT-C006	Cable	Zheng DI	1M0RFC	/	2020-03-17	2021-03-16

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission)*	Farad	EZ-EMC	RA-03A1

*Remark: indicates software version used in the compliance certification testing

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§15.203; §15.247(b)(4)(i)	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§15.207(a)	Conducted Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.247(a)(2)	DTS Bandwidth	Compliant
§15.247(b)(3)	RF Output Power	Compliant
§15.209(a)	Radiated Emission	Compliant
§15.247(d)	Band Edge (Out of Band Emissions)	Compliant

N/A: Not applicable

3. Antenna Requirement

3.1 Standard Applicable

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.2 Evaluation Information

This product has a PCB antenna, fulfill the requirement of this section.

4. Power Spectral Density

4.1 Standard Applicable

According to 15.247(a)(1)(iii), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

4.2 Test Setup Block Diagram



4.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.4 and ANSI C63.10-2013 Subclause 11.10.2, the test method of power spectral density as below:

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq 3 \times \text{RBW}$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.4 Summary of Test Results/Plots

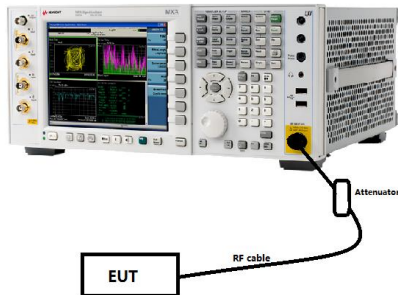
Please refer to Appendix A

5. DTS Bandwidth

5.1 Standard Applicable

According to 15.247(a)(2), systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.2 Test Setup Block Diagram



5.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.2 and ANSI C63.10-2013 Subclause 11.8.1, the test method of DTS Bandwidth as below:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.4 Summary of Test Results/Plots

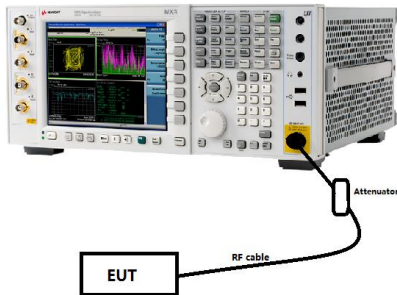
Please refer to Appendix B

6. RF Output Power

6.1 Standard Applicable

According to 15.247(b)(3), for systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.

6.2 Test Setup Block Diagram



6.3 Test Procedure

According to the KDB-558074 D01 v05r02 Subclause 8.3.1.1 and ANSI C63.10-2013 Subclause 11.9.1.1, this procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

- Set the RBW \geq DTS bandwidth.
- Set VBW $\geq 3 \times$ RBW.
- Set span $\geq 3 \times$ RBW
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

6.4 Summary of Test Results/Plots

Please refer to Appendix C

7. Field Strength of Spurious Emissions

7.1 Standard Applicable

According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

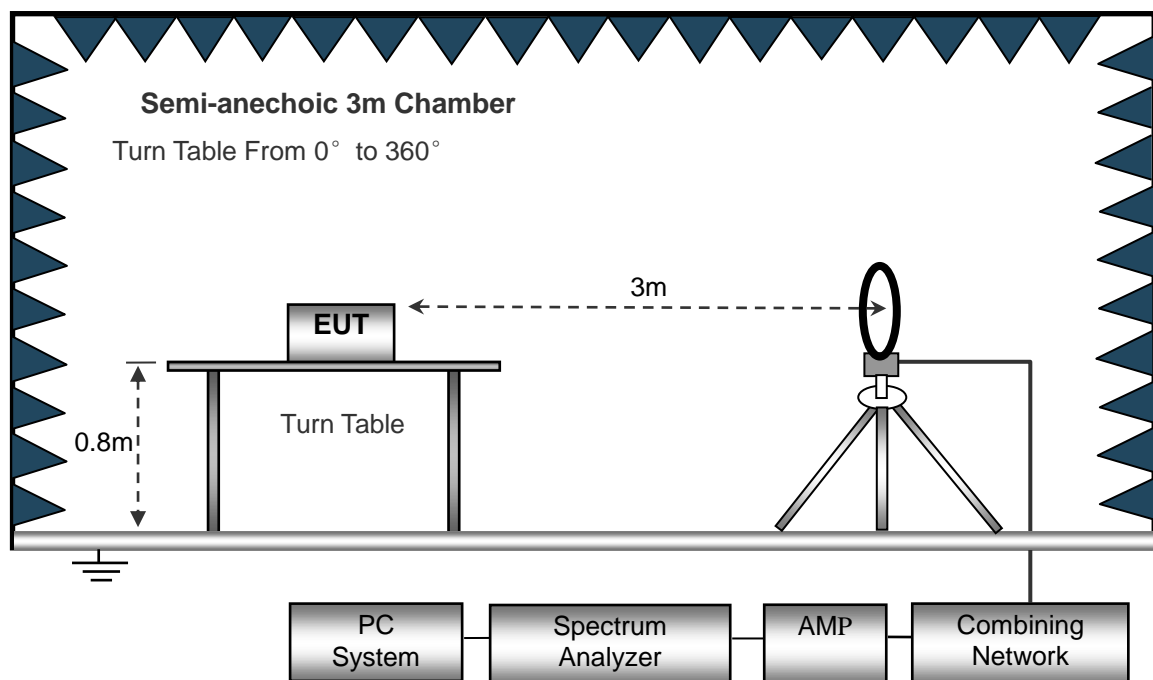
7.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

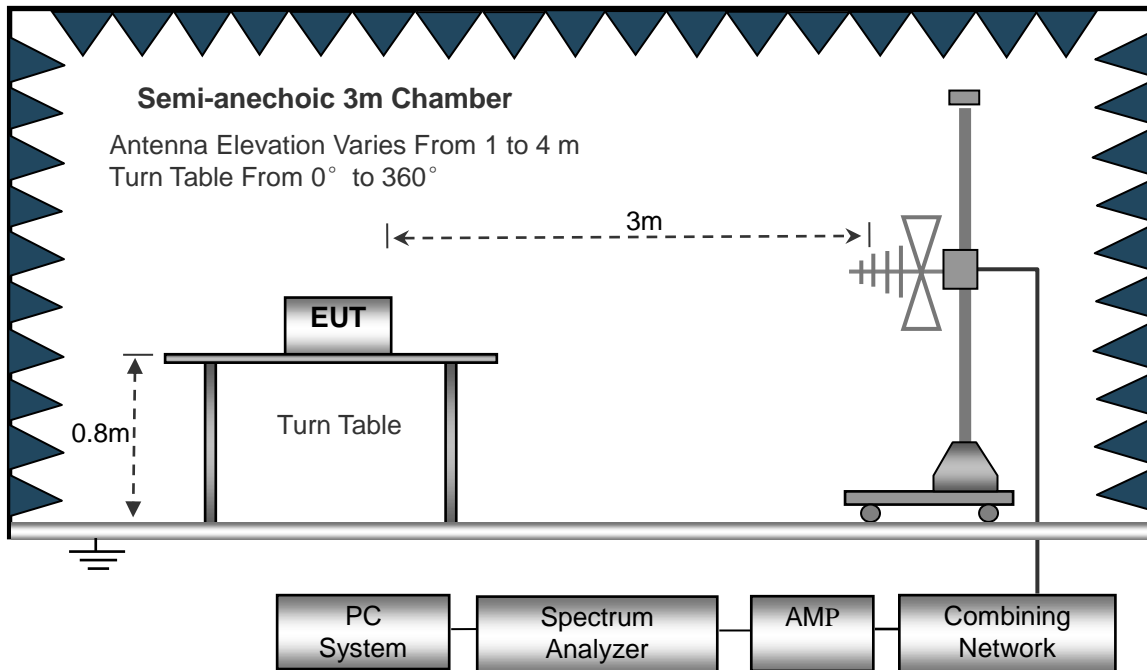
The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

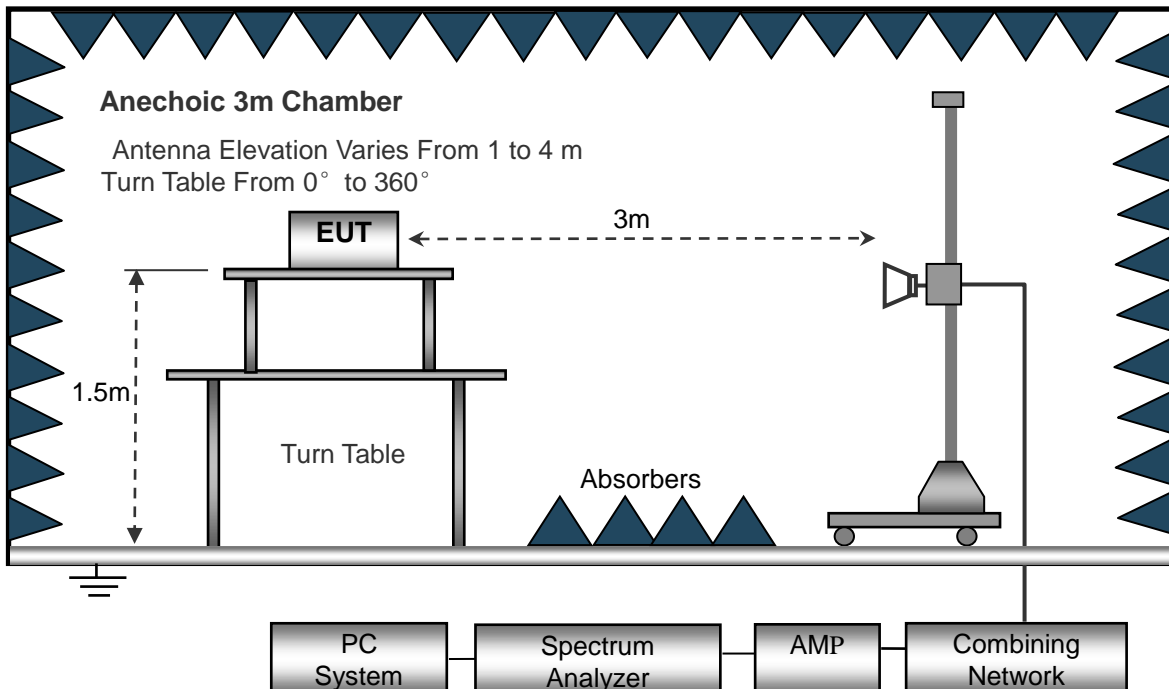
The test setup for emission measurement below 30MHz..



The test setup for emission measurement from 30 MHz to 1 GHz..



The test setup for emission measurement above 1 GHz..



Frequency :9kHz-30MHz
 RBW=10KHz,
 VBW =30KHz

Frequency :30MHz-1GHz
 RBW=120KHz,
 VBW=300KHz

Frequency :Above 1GHz
 RBW=1MHz,
 VBW=3MHz(Peak), 10Hz(AV)

Sweep time= Auto

Sweep time= Auto

Sweep time= Auto

Trace = max hold

Trace = max hold

Trace = max hold

Detector function = peak

Detector function = peak, QP

Detector function = peak, AV

7.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit. The equation for margin calculation is as follows:

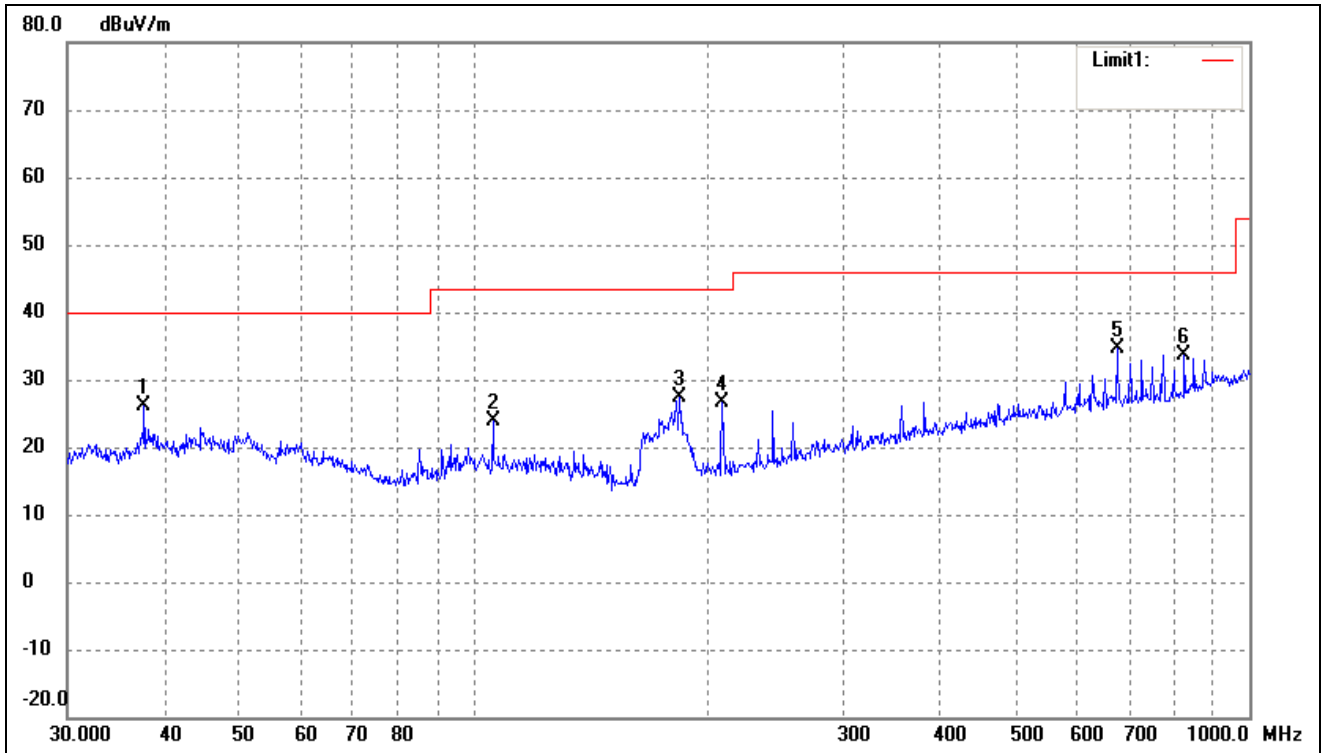
$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

7.4 Summary of Test Results/Plots

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

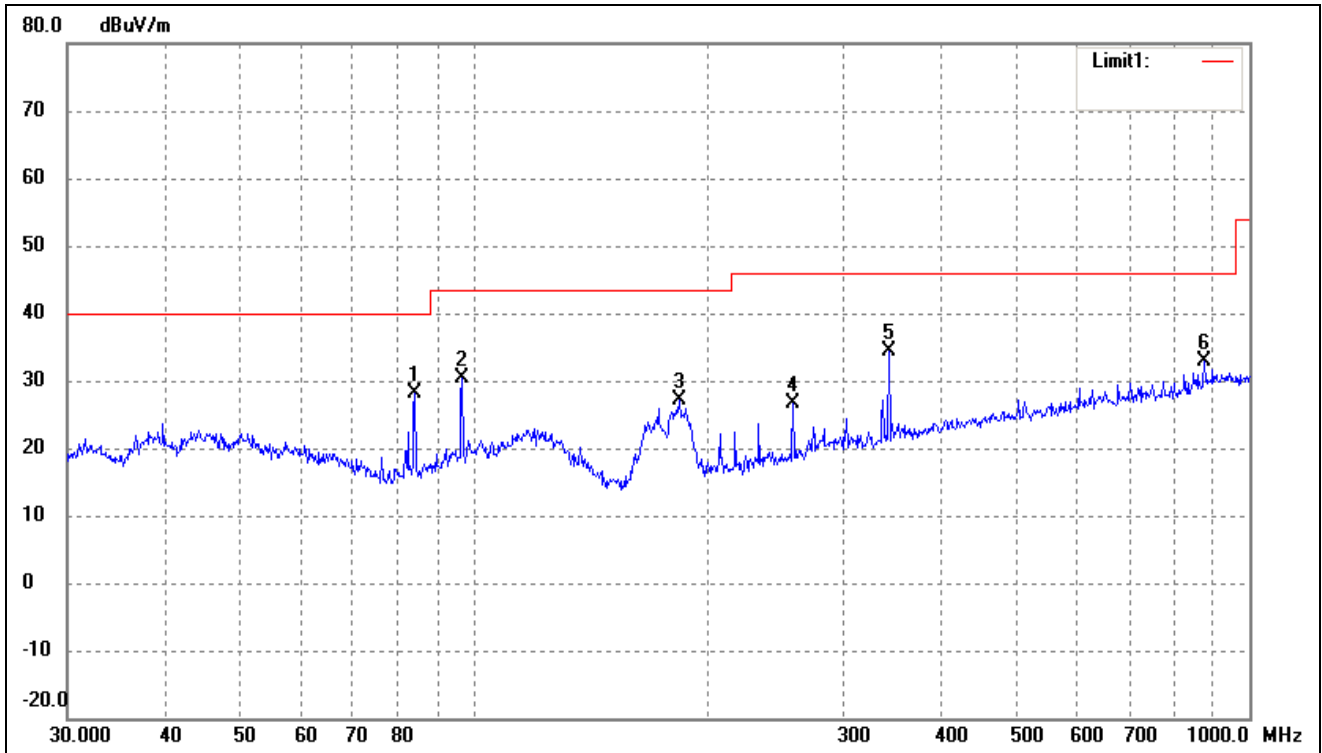
- Spurious Emissions Below 1GHz
- 1M

Test Channel	Low	Polarity:	Horizontal
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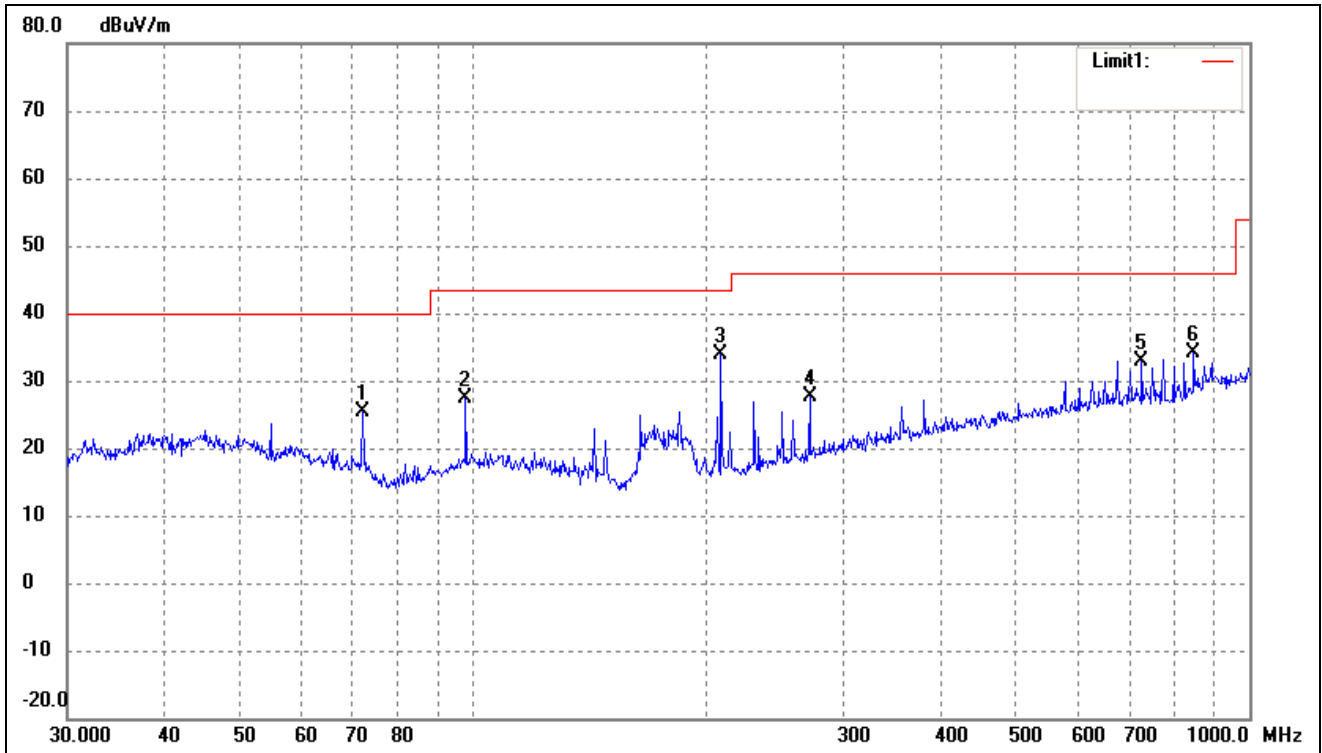
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	37.6798	38.98	-12.87	26.11	40.00	-13.89	-	-	peak
2	106.0126	37.15	-13.31	23.84	43.50	-19.66	-	-	peak
3	184.4898	41.08	-13.78	27.30	43.50	-16.20	-	-	peak
4	209.3129	38.90	-12.31	26.59	43.50	-16.91	-	-	peak
5	675.2080	36.51	-1.87	34.64	46.00	-11.36	-	-	peak
6	824.5968	33.56	0.00	33.56	46.00	-12.44	-	-	peak

Test Channel	Low	Polarity:	Vertical
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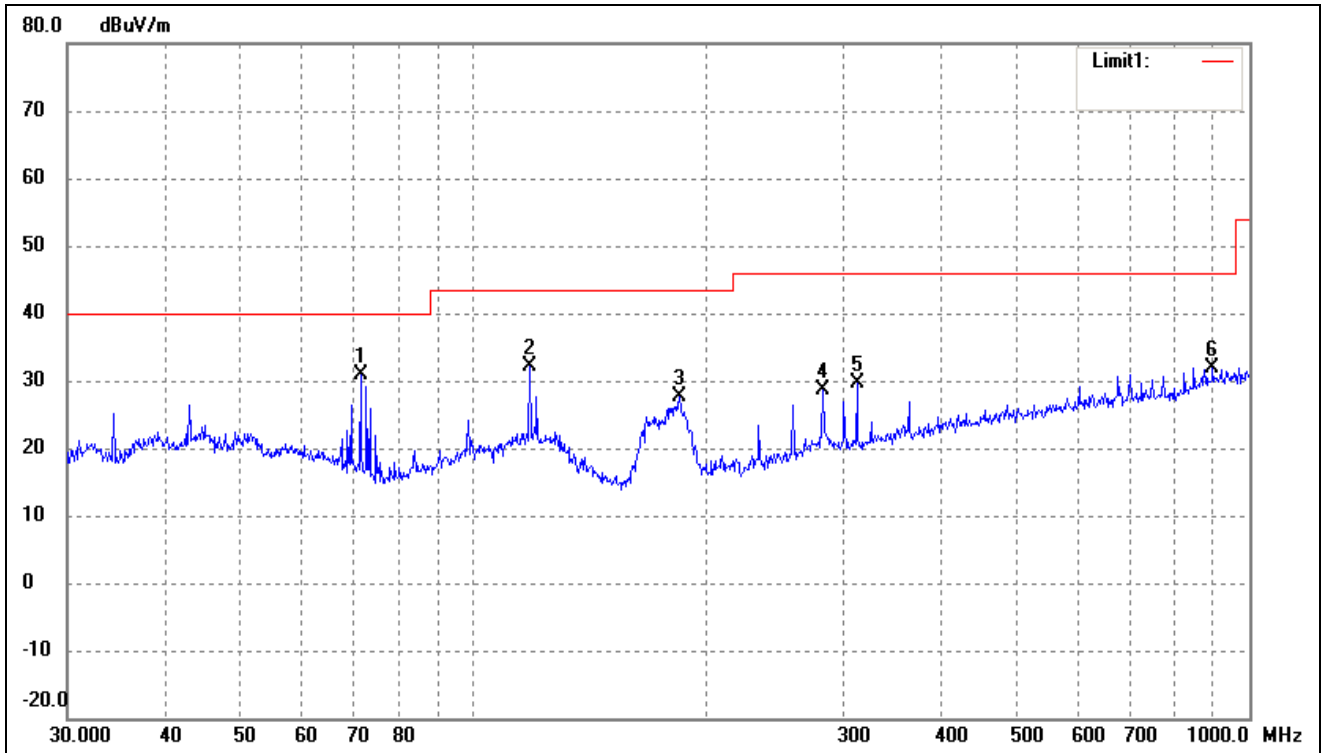
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	84.1100	44.18	-16.17	28.01	40.00	-11.99	-	-	peak
2	96.7749	44.32	-13.86	30.46	43.50	-13.04	-	-	peak
3	184.4898	40.82	-13.78	27.04	43.50	-16.46	-	-	peak
4	258.3264	37.37	-10.85	26.52	46.00	-19.48	-	-	peak
5	343.1800	42.25	-7.84	34.41	46.00	-11.59	-	-	peak
6	875.2470	32.30	0.55	32.85	46.00	-13.15	-	-	peak

Test Channel	Middle	Polarity:	Horizontal
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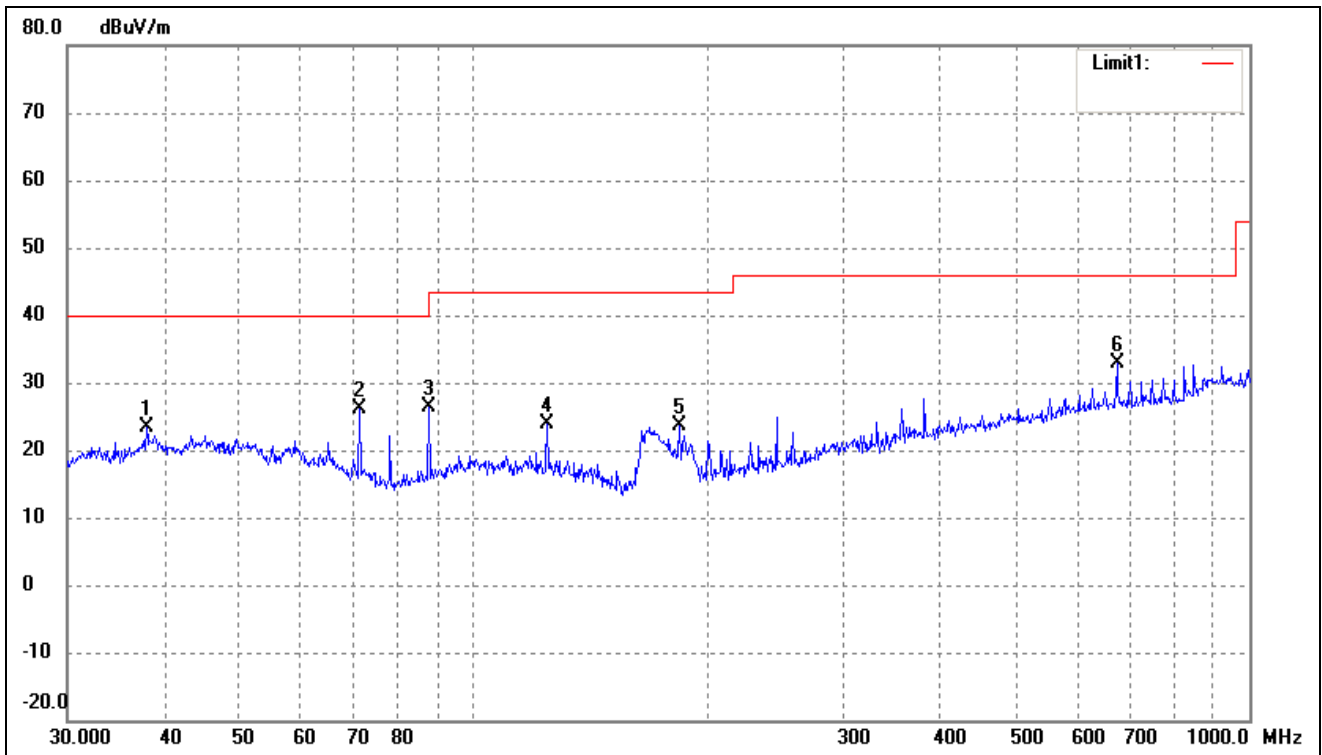
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	72.0843	40.50	-15.22	25.28	40.00	-14.72	-	-	peak
2	97.7983	41.08	-13.69	27.39	43.50	-16.11	-	-	peak
3	208.5803	46.17	-12.32	33.85	43.50	-9.65	-	-	peak
4	271.3246	38.44	-10.79	27.65	46.00	-18.35	-	-	peak
5	726.8052	33.99	-1.00	32.99	46.00	-13.01	-	-	peak
6	848.0563	33.90	0.30	34.20	46.00	-11.80	-	-	peak

Test Channel	Middle	Polarity:	Vertical
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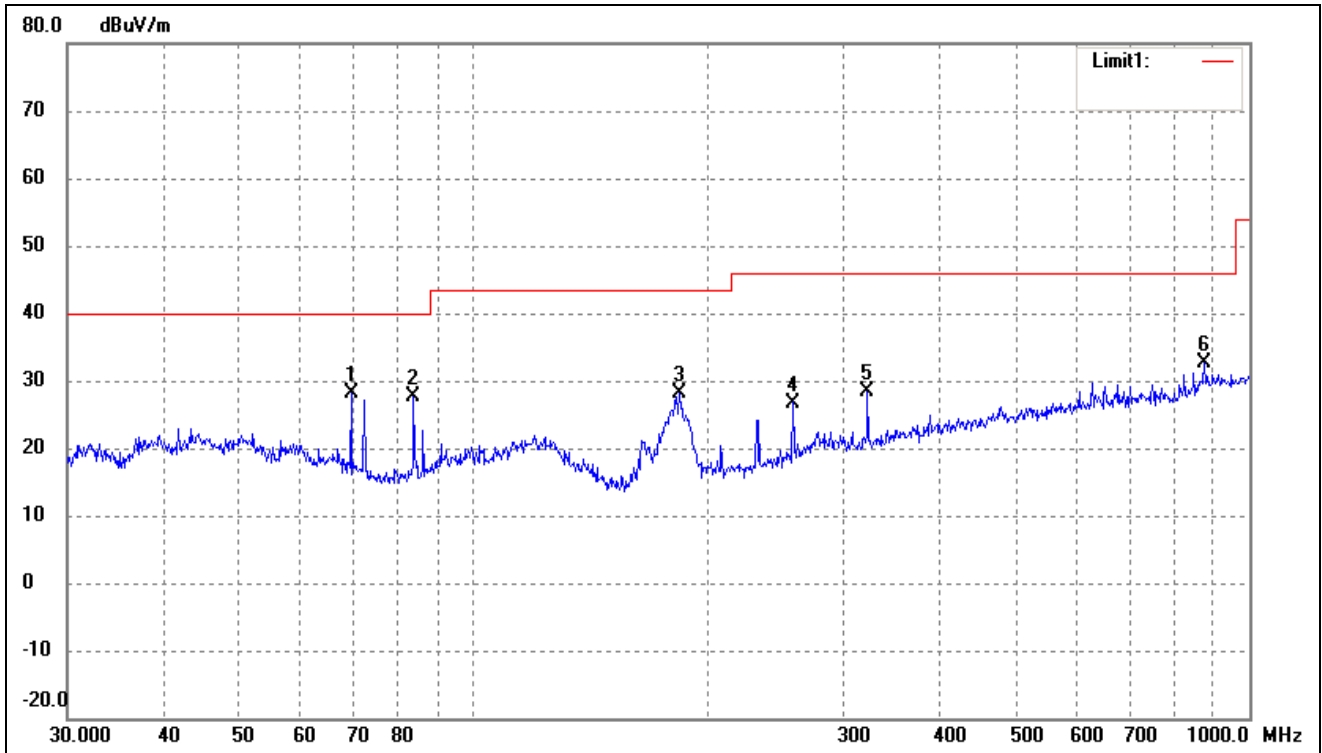
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	71.5806	45.99	-15.08	30.91	40.00	-9.09	-	-	peak
2	118.1862	46.17	-14.12	32.05	43.50	-11.45	-	-	peak
3	184.4898	41.41	-13.78	27.63	43.50	-15.87	-	-	peak
4	281.9946	38.75	-10.24	28.51	46.00	-17.49	-	-	peak
5	312.1794	38.56	-8.95	29.61	46.00	-16.39	-	-	peak
6	896.9965	30.55	1.42	31.97	46.00	-14.03	-	-	peak

Test Channel	High	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	37.9450	36.03	-12.76	23.27	40.00	-16.73	-	-	peak
2	71.3300	41.20	-15.01	26.19	40.00	-13.81	-	-	peak
3	87.7248	41.70	-15.44	26.26	40.00	-13.74	-	-	peak
4	124.5690	39.41	-15.52	23.89	43.50	-19.61	-	-	peak
5	184.4898	37.46	-13.78	23.68	43.50	-19.82	-	-	peak
6	675.2080	34.79	-1.87	32.92	46.00	-13.08	-	-	peak

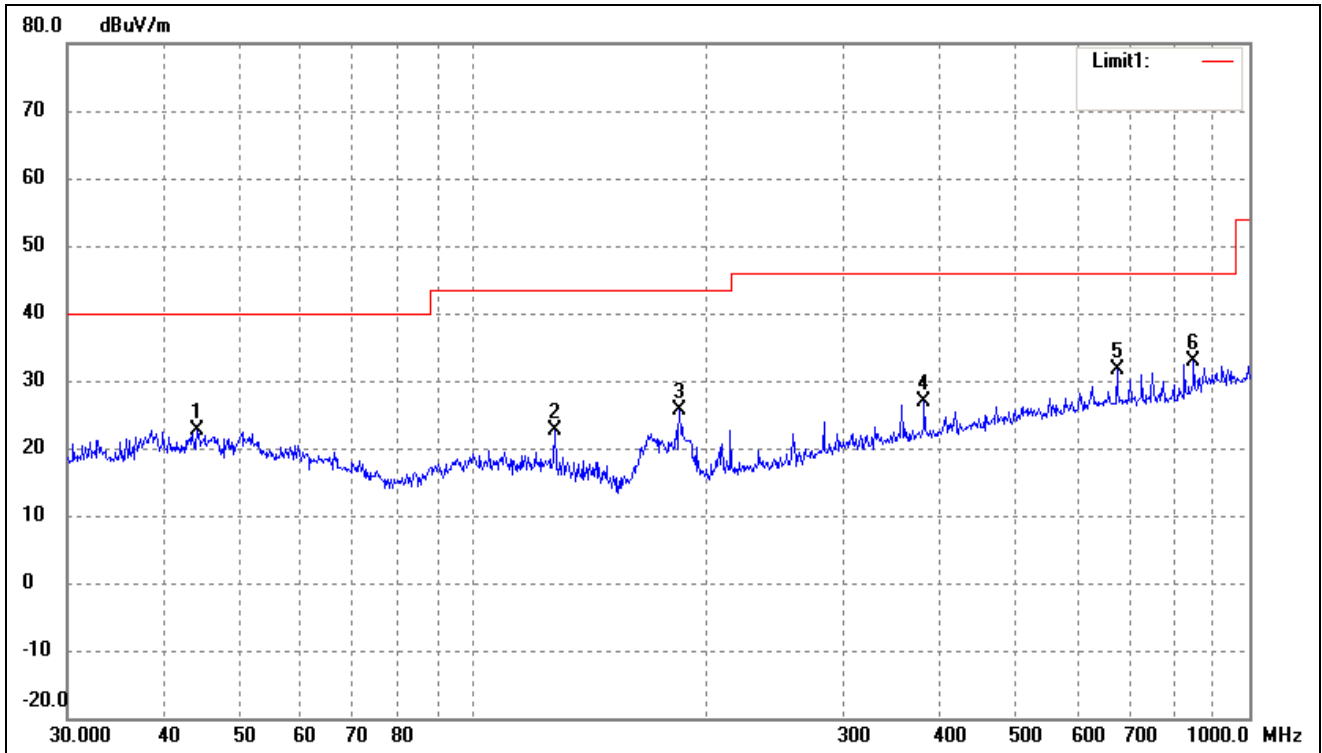
Test Channel	High	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	69.6005	42.77	-14.58	28.19	40.00	-11.81	-	-	peak
2	83.8156	43.95	-16.22	27.73	40.00	-12.27	-	-	peak
3	184.4898	41.79	-13.78	28.01	43.50	-15.49	-	-	peak
4	258.3264	37.60	-10.85	26.75	46.00	-19.25	-	-	peak
5	322.1886	37.39	-8.96	28.43	46.00	-17.57	-	-	peak
6	875.2470	32.10	0.55	32.65	46.00	-13.35	-	-	peak

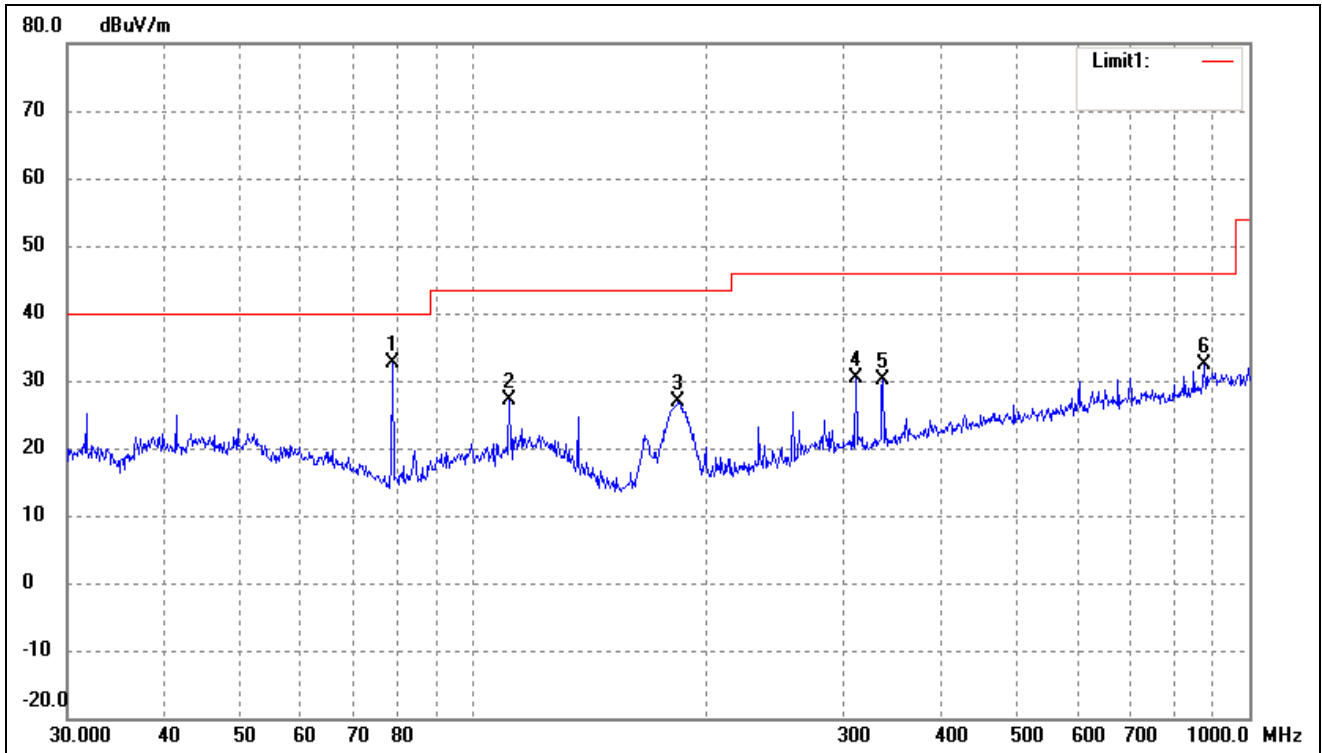
➤ 2M

Test Channel	Low	Polarity:	Horizontal
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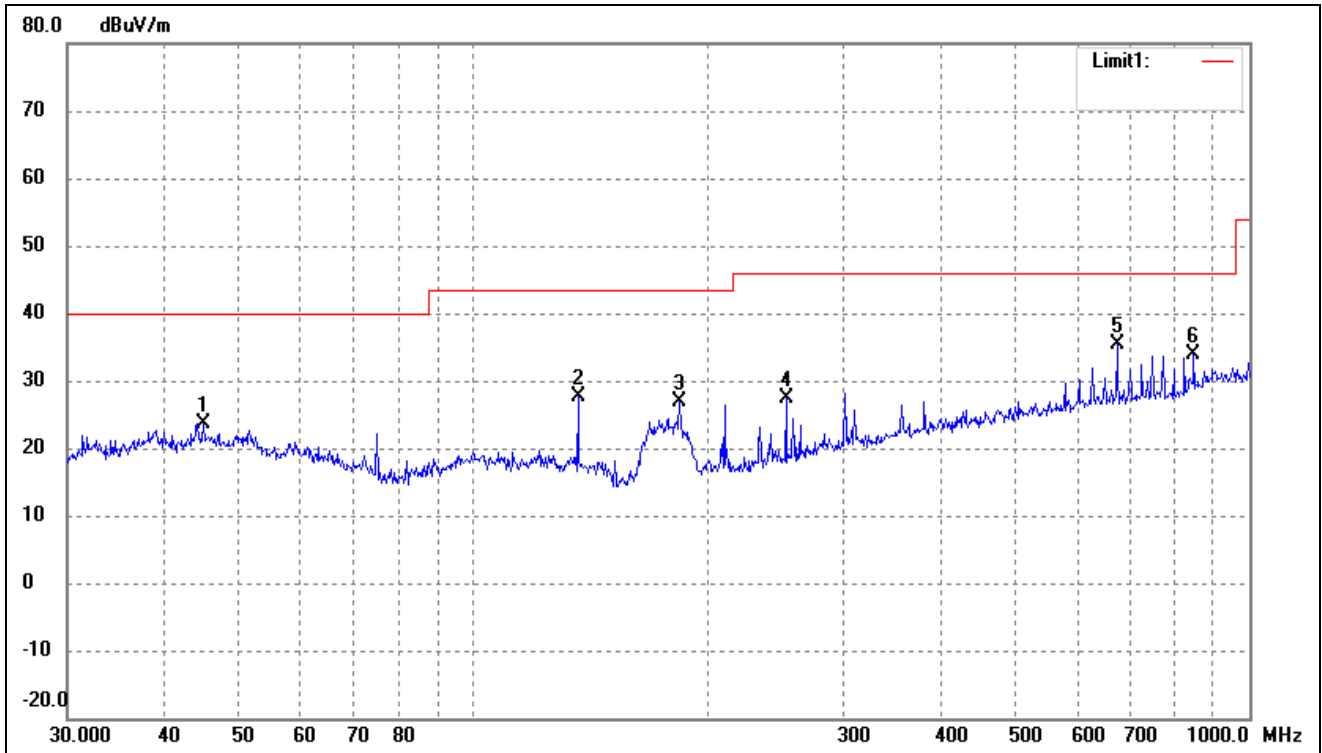
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	44.1202	34.55	-11.84	22.71	40.00	-17.29	-	-	peak
2	127.2176	38.97	-16.22	22.75	43.50	-20.75	-	-	peak
3	184.4898	39.34	-13.78	25.56	43.50	-17.94	-	-	peak
4	381.2487	33.82	-7.01	26.81	46.00	-19.19	-	-	peak
5	675.2080	33.39	-1.87	31.52	46.00	-14.48	-	-	peak
6	848.0563	32.47	0.30	32.77	46.00	-13.23	-	-	peak

Test Channel	Low	Polarity:	Vertical
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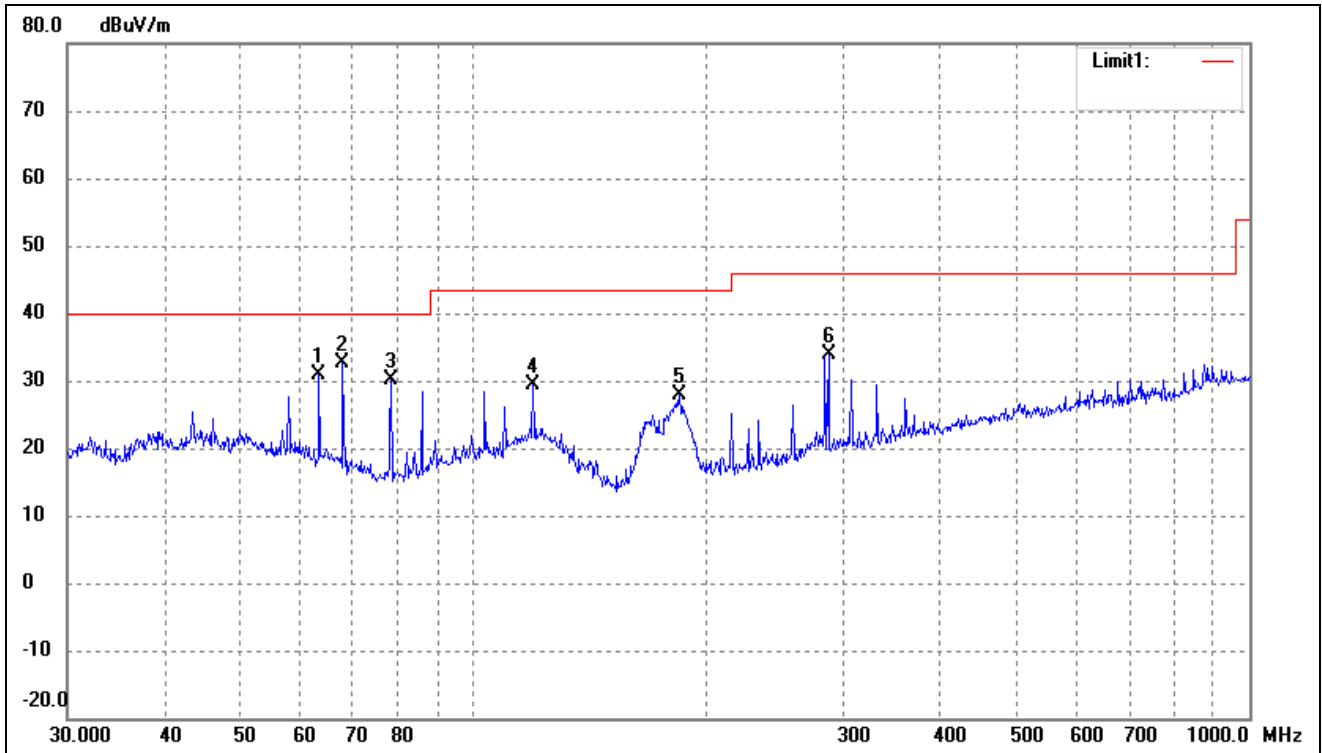
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	78.6888	49.20	-16.60	32.60	40.00	-7.40	-	-	peak
2	111.3468	40.59	-13.45	27.14	43.50	-16.36	-	-	peak
3	183.8440	40.72	-13.86	26.86	43.50	-16.64	-	-	peak
4	311.0867	39.43	-8.93	30.50	46.00	-15.50	-	-	peak
5	337.2155	38.23	-8.21	30.02	46.00	-15.98	-	-	peak
6	875.2470	31.71	0.55	32.26	46.00	-13.74	-	-	peak

Test Channel	Middle	Polarity:	Horizontal
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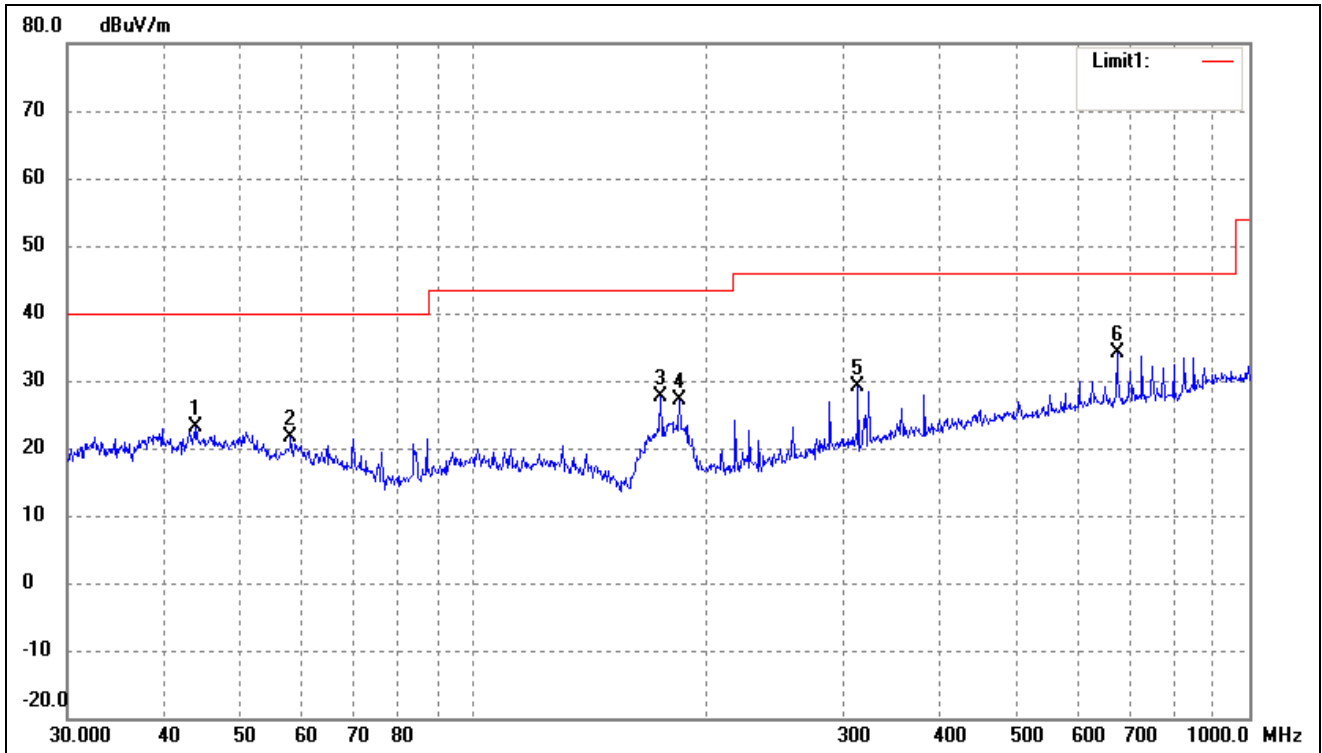
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	44.9006	35.45	-11.80	23.65	40.00	-16.35	-	-	peak
2	136.4598	44.12	-16.49	27.63	43.50	-15.87	-	-	peak
3	184.4898	40.77	-13.78	26.99	43.50	-16.51	-	-	peak
4	252.9482	38.20	-10.91	27.29	46.00	-18.71	-	-	peak
5	675.2080	37.29	-1.87	35.42	46.00	-10.58	-	-	peak
6	848.0563	33.55	0.30	33.85	46.00	-12.15	-	-	peak

Test Channel	Middle	Polarity:	Vertical
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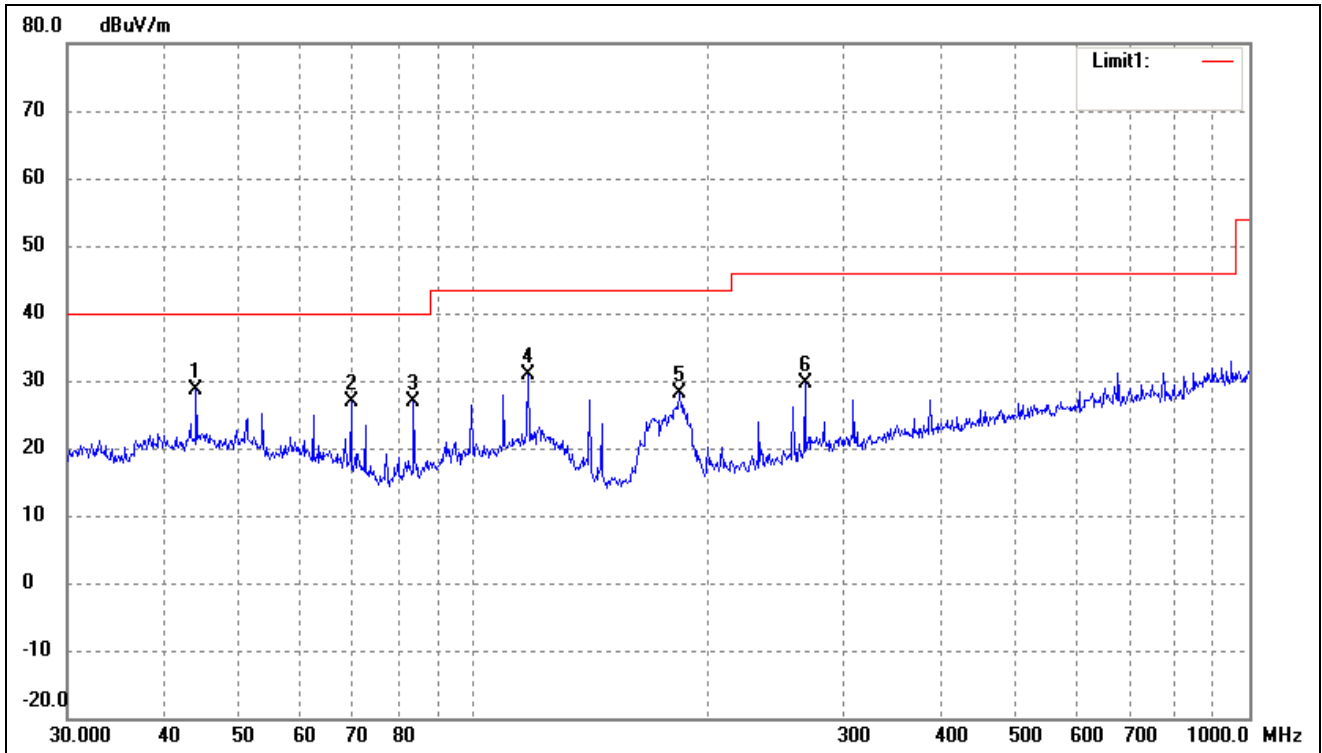
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	63.3132	44.57	-13.62	30.95	40.00	-9.05	-	-	peak
2	67.9129	46.92	-14.34	32.58	40.00	-7.42	-	-	peak
3	78.4133	46.62	-16.57	30.05	40.00	-9.95	-	-	peak
4	119.4361	43.54	-14.24	29.30	43.50	-14.20	-	-	peak
5	184.4898	41.58	-13.78	27.80	43.50	-15.70	-	-	peak
6	286.9823	43.65	-9.87	33.78	46.00	-12.22	-	-	peak

Test Channel	High	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	43.9658	34.91	-11.83	23.08	40.00	-16.92	-	-	peak
2	58.2030	34.65	-12.97	21.68	40.00	-18.32	-	-	peak
3	174.4241	42.44	-14.71	27.73	43.50	-15.77	-	-	peak
4	184.4898	40.93	-13.78	27.15	43.50	-16.35	-	-	peak
5	313.2760	38.15	-8.94	29.21	46.00	-16.79	-	-	peak
6	675.2080	36.01	-1.87	34.14	46.00	-11.86	-	-	peak

Test Channel	High	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	43.9658	40.47	-11.83	28.64	40.00	-11.36	-	-	peak
2	69.6005	41.50	-14.58	26.92	40.00	-13.08	-	-	peak
3	83.8156	43.05	-16.22	26.83	40.00	-13.17	-	-	peak
4	117.7725	44.97	-14.07	30.90	43.50	-12.60	-	-	peak
5	184.4898	41.83	-13.78	28.05	43.50	-15.45	-	-	peak
6	267.5455	40.54	-10.80	29.74	46.00	-16.26	-	-	peak

Remark: '- 'Means' the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

➤ Spurious Emissions Above 1GHz

1M

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2402MHz							
4804.000	49.98	-4.52	45.46	74.00	-28.54	H	PK
7206.000	49.99	-2.20	47.79	74.00	-26.21	H	PK
9608.000	48.88	1.73	50.61	74.00	-23.39	H	PK
4804.000	50.49	-4.52	45.97	74.00	-28.03	V	PK
7206.000	50.24	-2.20	48.04	74.00	-25.96	V	PK
9608.000	49.31	1.73	51.04	74.00	-22.96	V	PK
Middle Channel-2440MHz							
4880.000	50.70	-4.47	46.23	74.00	-27.77	H	PK
7320.000	48.05	-2.17	45.88	74.00	-28.12	H	PK
9760.000	49.43	1.95	51.38	74.00	-22.62	H	PK
4880.000	51.44	-4.47	46.97	74.00	-27.03	V	PK
7320.000	48.35	-2.17	46.18	74.00	-27.82	V	PK
9760.000	49.79	1.95	51.74	74.00	-22.26	V	PK
High Channel-2480MHz							
4960.000	49.99	-4.41	45.58	74.00	-28.42	H	PK
7440.000	49.45	-2.14	47.31	74.00	-26.69	H	PK
9920.000	49.59	2.19	51.78	74.00	-22.22	H	PK
4960.000	50.60	-4.41	46.19	74.00	-27.81	V	PK
7440.000	49.22	-2.14	47.08	74.00	-26.92	V	PK
9920.000	50.60	2.19	52.79	74.00	-21.21	V	PK

2M

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2402MHz							
4804.000	50.19	-4.52	45.67	74.00	-28.33	H	PK
7206.000	50.25	-2.20	48.05	74.00	-25.95	H	PK
9608.000	48.93	1.73	50.66	74.00	-23.34	H	PK
4804.000	51.08	-4.52	46.56	74.00	-27.44	V	PK
7206.000	50.75	-2.20	48.55	74.00	-25.45	V	PK
9608.000	48.87	1.73	50.60	74.00	-23.40	V	PK
Middle Channel-2440MHz							
4880.000	50.43	-4.47	45.96	74.00	-28.04	H	PK
7320.000	48.99	-2.17	46.82	74.00	-27.18	H	PK
9760.000	49.05	1.95	51.00	74.00	-23.00	H	PK
4880.000	50.37	-4.47	45.90	74.00	-28.10	V	PK
7320.000	48.78	-2.17	46.61	74.00	-27.39	V	PK
9760.000	51.04	1.95	52.99	74.00	-21.01	V	PK
High Channel-2480MHz							
4960.000	50.28	-4.41	45.87	74.00	-28.13	H	PK
7440.000	50.25	-2.14	48.11	74.00	-25.89	H	PK
9920.000	50.12	2.19	52.31	74.00	-21.69	H	PK
4960.000	50.75	-4.41	46.34	74.00	-27.66	V	PK
7440.000	49.57	-2.14	47.43	74.00	-26.57	V	PK
9920.000	50.78	2.19	52.97	74.00	-21.03	V	PK

Note: 1. Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

2. Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

8. Out of Band Emissions

8.1 Standard Applicable

According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

8.2 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.4 and ANSI C63.10-2013 Subclause 11.11, the Emissions in nonrestricted frequency bands test method as follows:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

According to the KDB 558074 D01 v05r02 Subclause 8.5 and ANSI C63.10-2013 Subclause 11.12, the Emissions in restricted frequency bands test method as follows:

A. Radiated emission measurements:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement

KDB publication number: 913591 may be used for the radiated bandedge measurements.

B. Antenna-port conducted measurements

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 9.
- b) VBW \geq $[3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be lengthened for low-duty-cycle applications.)

RBW as a function of frequency

Frequency	RBW
9kHz to 150kHz	200Hz to 300Hz
0.15MHz to 30MHz	9kHz to 10kHz
30MHz to 1000MHz	100kHz to 120kHz
>1000MHz	1MHz

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

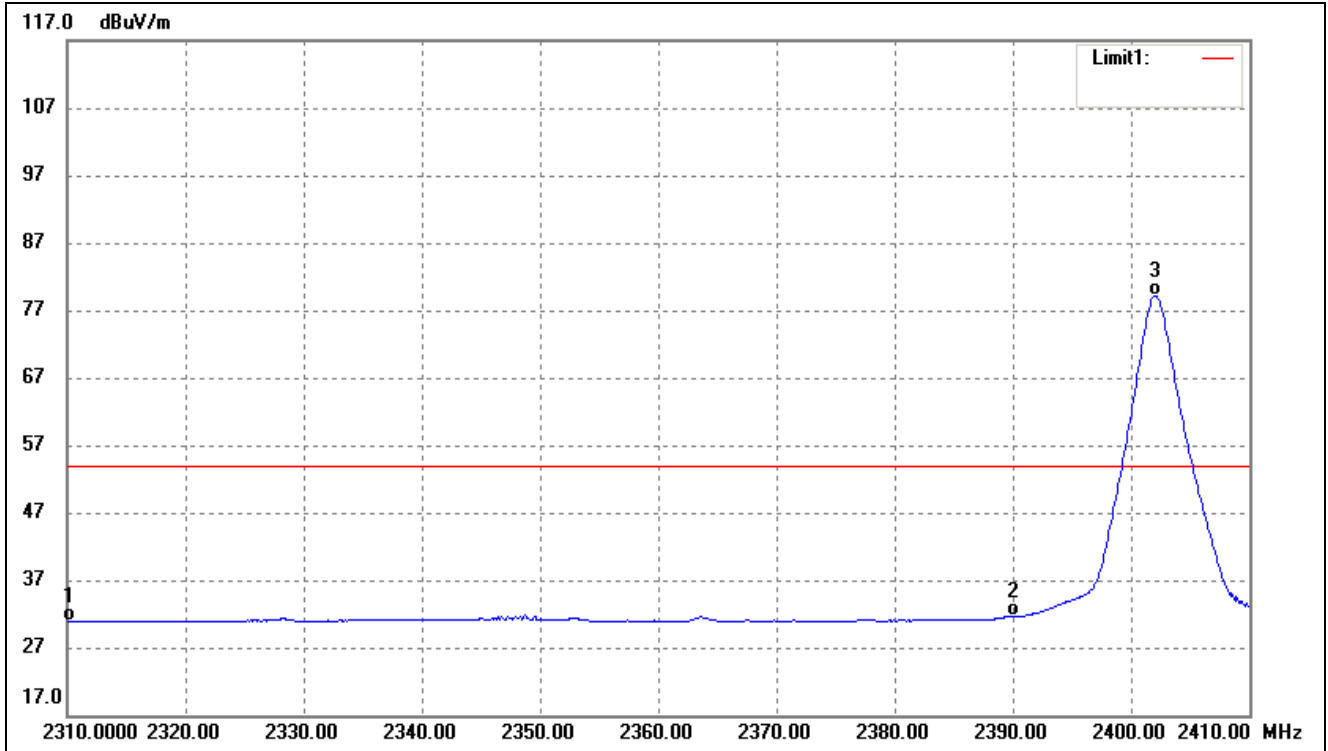
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

8.3 Summary of Test Results/Plots

➤ Radiated test

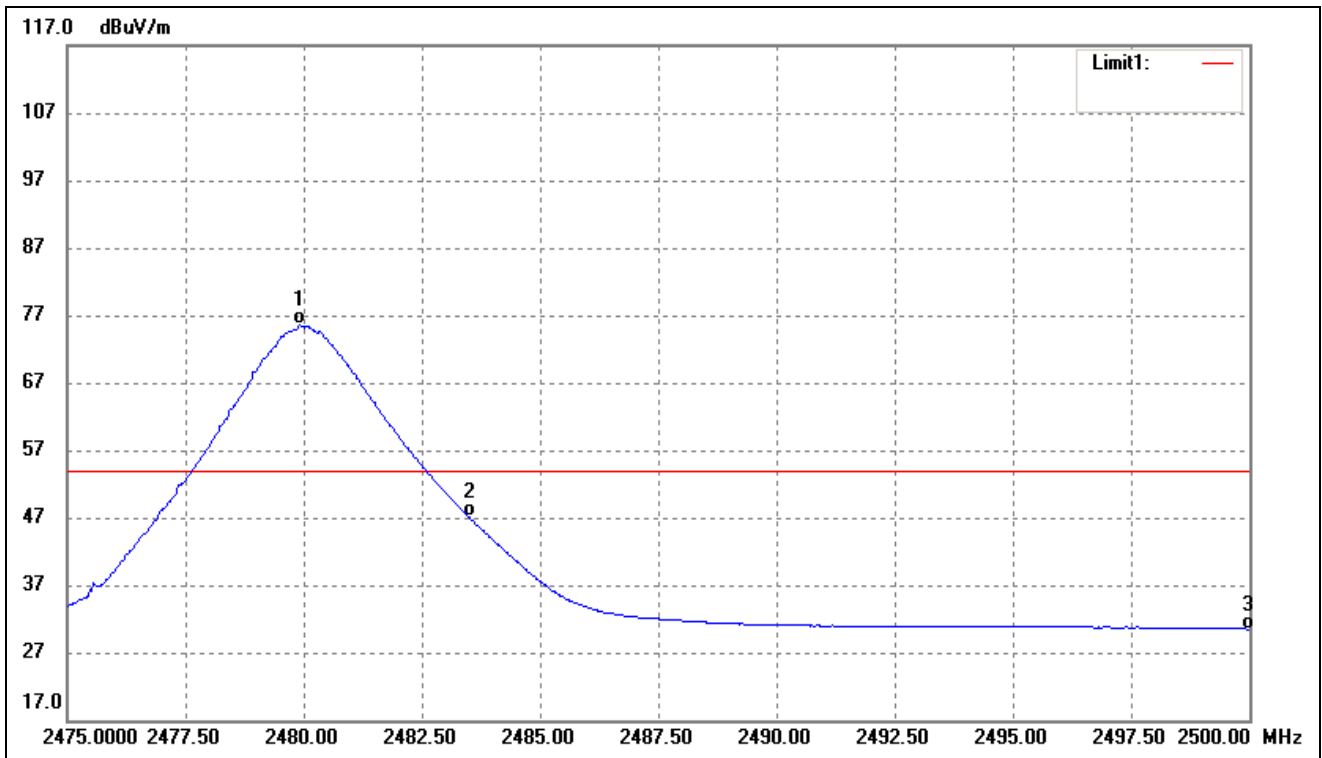
1M

Test Channel	Low	Polarity:	Horizontal (worst case)
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	40.45	-9.66	30.79	54.00	-23.21	Average Detector
	2310.000	52.13	-9.66	42.47	74.00	-31.53	Peak Detector
2	2390.000	41.14	-9.50	31.64	54.00	-22.36	Average Detector
	2390.000	53.53	-9.50	44.03	74.00	-29.97	Peak Detector
3	2402.000	88.62	-9.47	79.15	/	/	Average Detector
	2402.000	111.95	-9.47	102.48	/	/	Peak Detector

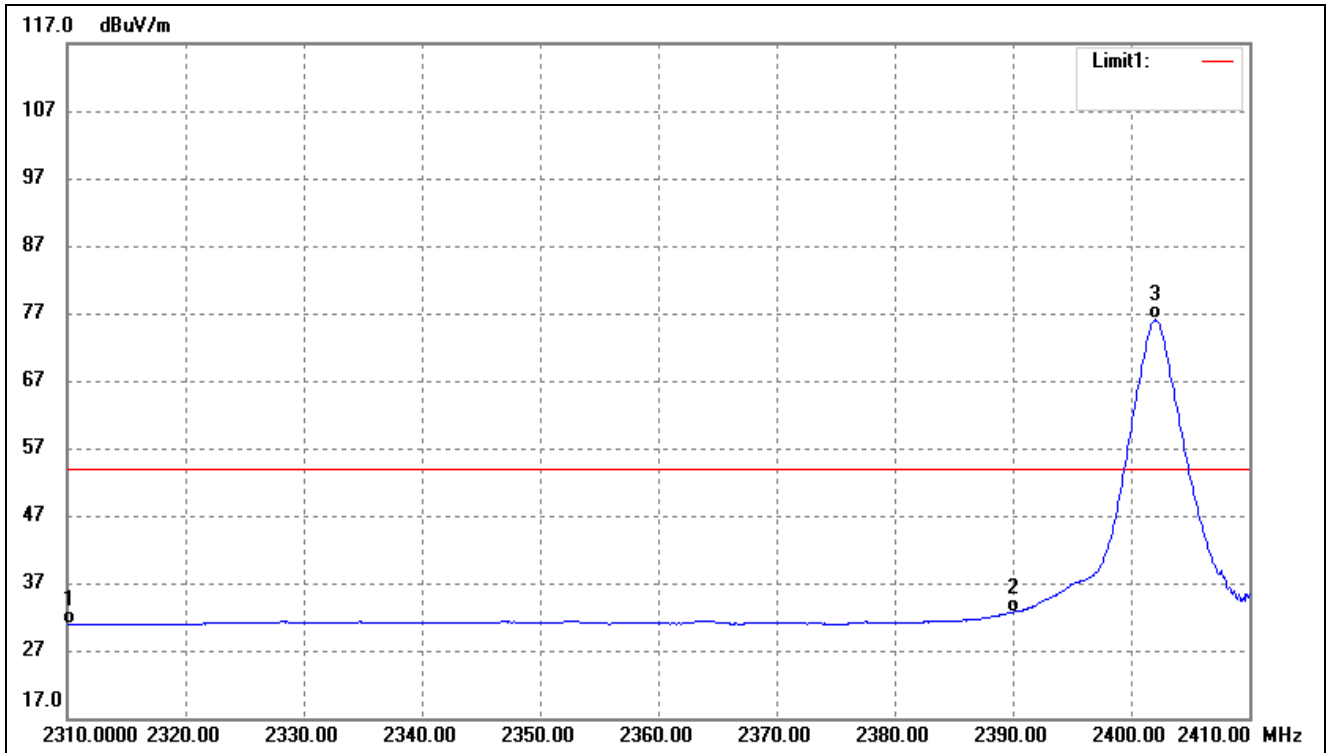
Test Channel	High	Polarity:	Horizontal (worst case)
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2479.925	85.03	-9.32	75.71	/	/	Average Detector
	2480.150	106.01	-9.32	96.69	/	/	Peak Detector
2	2483.500	56.42	-9.31	47.11	54.00	-6.89	Average Detector
	2483.500	68.78	-9.31	59.47	74.00	-14.53	Peak Detector
3	2500.000	39.76	-9.28	30.48	54.00	-23.52	Average Detector
	2500.000	52.36	-9.28	43.08	74.00	-30.92	Peak Detector

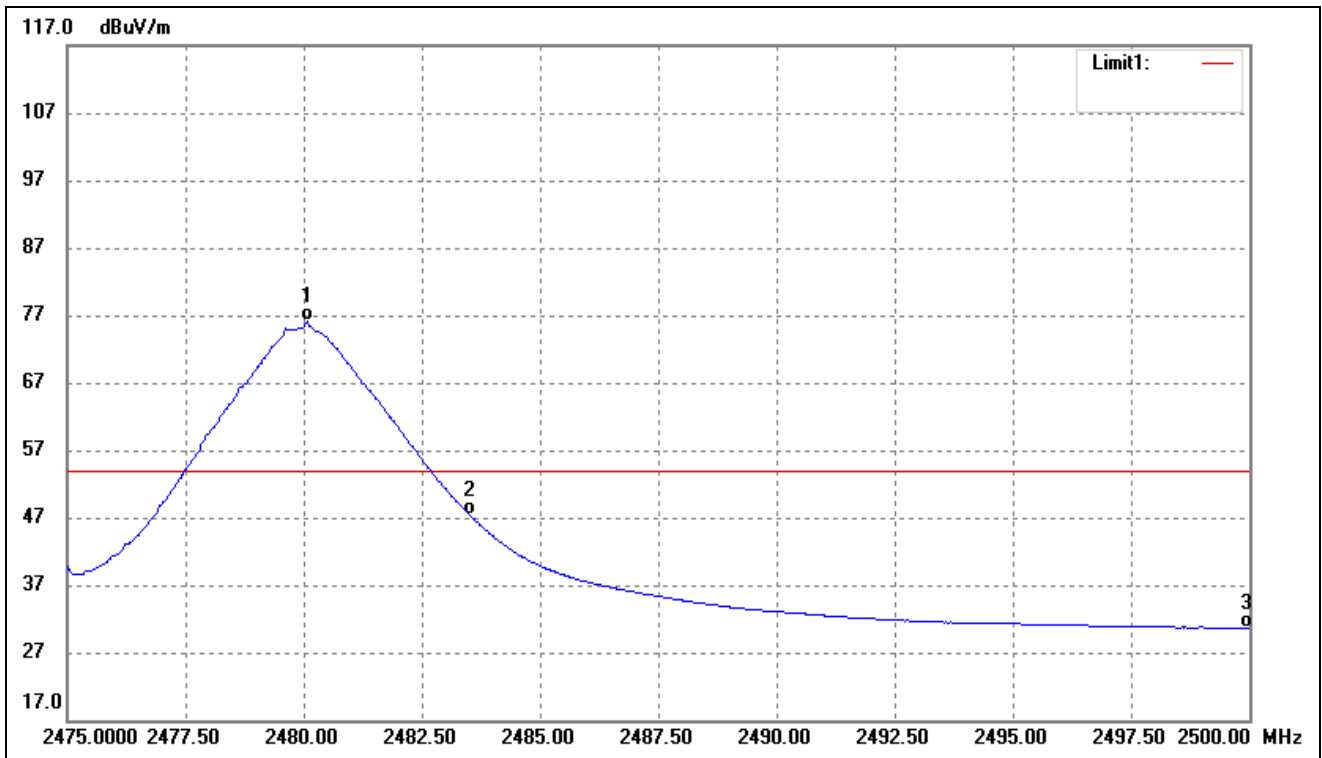
2M

Test Channel	Low	Polarity:	Horizontal (worst case)
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	40.60	-9.66	30.94	54.00	-23.06	Average Detector
	2310.000	52.75	-9.66	43.09	74.00	-30.91	Peak Detector
2	2390.000	42.23	-9.50	32.73	54.00	-21.27	Average Detector
	2390.000	55.96	-9.50	46.46	74.00	-27.54	Peak Detector
3	2402.100	85.49	-9.47	76.02	/	/	Average Detector
	2401.500	107.21	-9.48	97.73	/	/	Peak Detector

Test Channel	High	Polarity:	Horizontal (worst case)
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.075	85.37	-9.32	76.05	/	/	Average Detector
	2479.975	106.04	-9.32	96.72	/	/	Peak Detector
2	2483.500	56.81	-9.31	47.50	54.00	-6.50	Average Detector
	2483.500	72.72	-9.31	63.41	74.00	-10.59	Peak Detector
3	2500.000	39.88	-9.28	30.60	54.00	-23.40	Average Detector
	2500.000	51.94	-9.28	42.66	74.00	-31.34	Peak Detector

➤ Conducted test

Please refer to Appendix D

9. Conducted Emissions

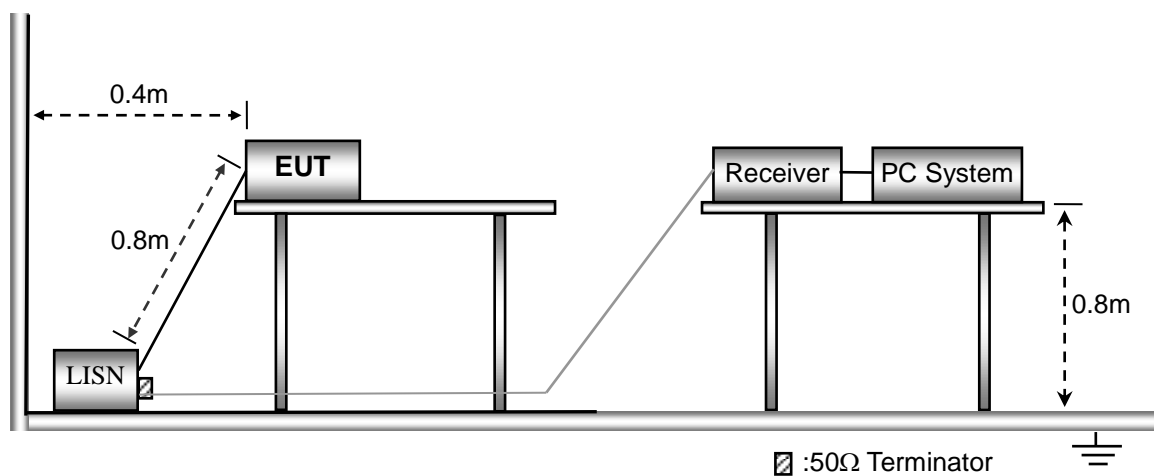
9.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

9.2 Basic Test Setup Block Diagram



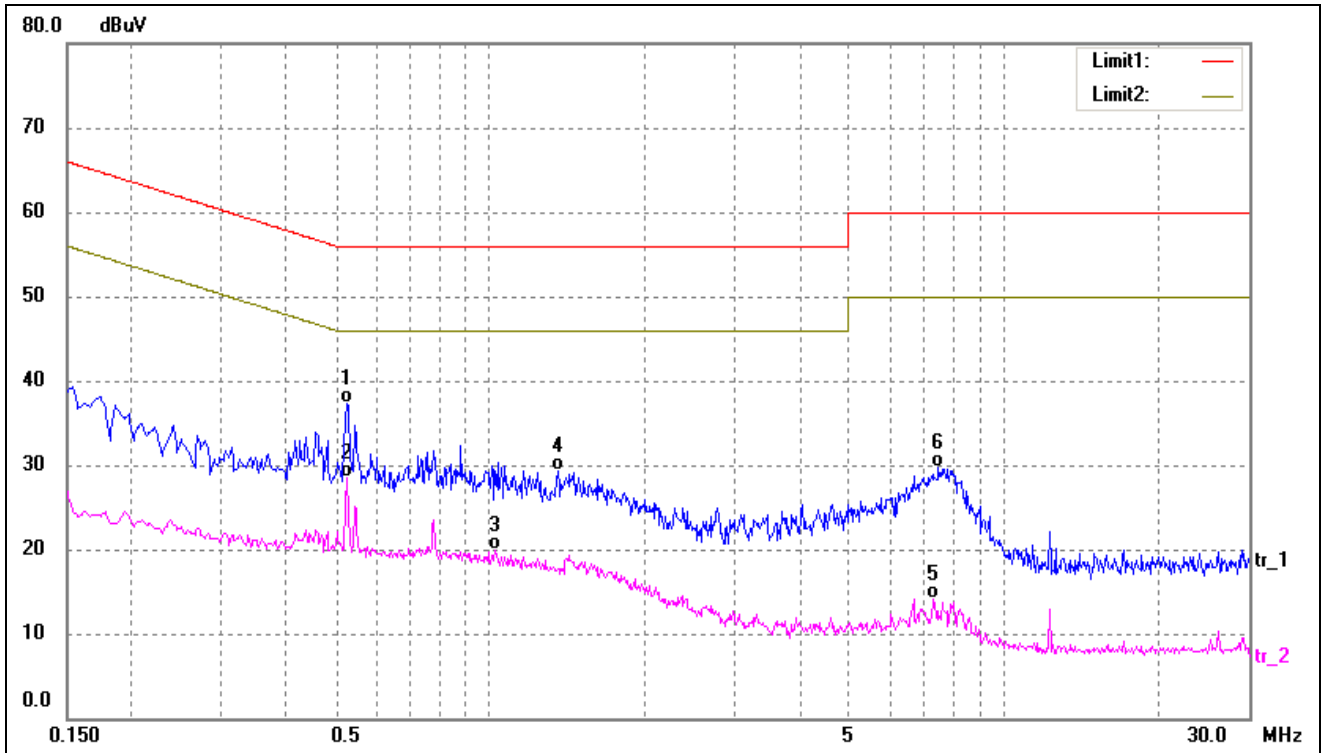
9.3 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency	150 kHz
Stop Frequency	30 MHz
Sweep Speed	Auto
IF Bandwidth.....	10 kHz
Quasi-Peak Adapter Bandwidth	9 kHz
Quasi-Peak Adapter Mode	Normal

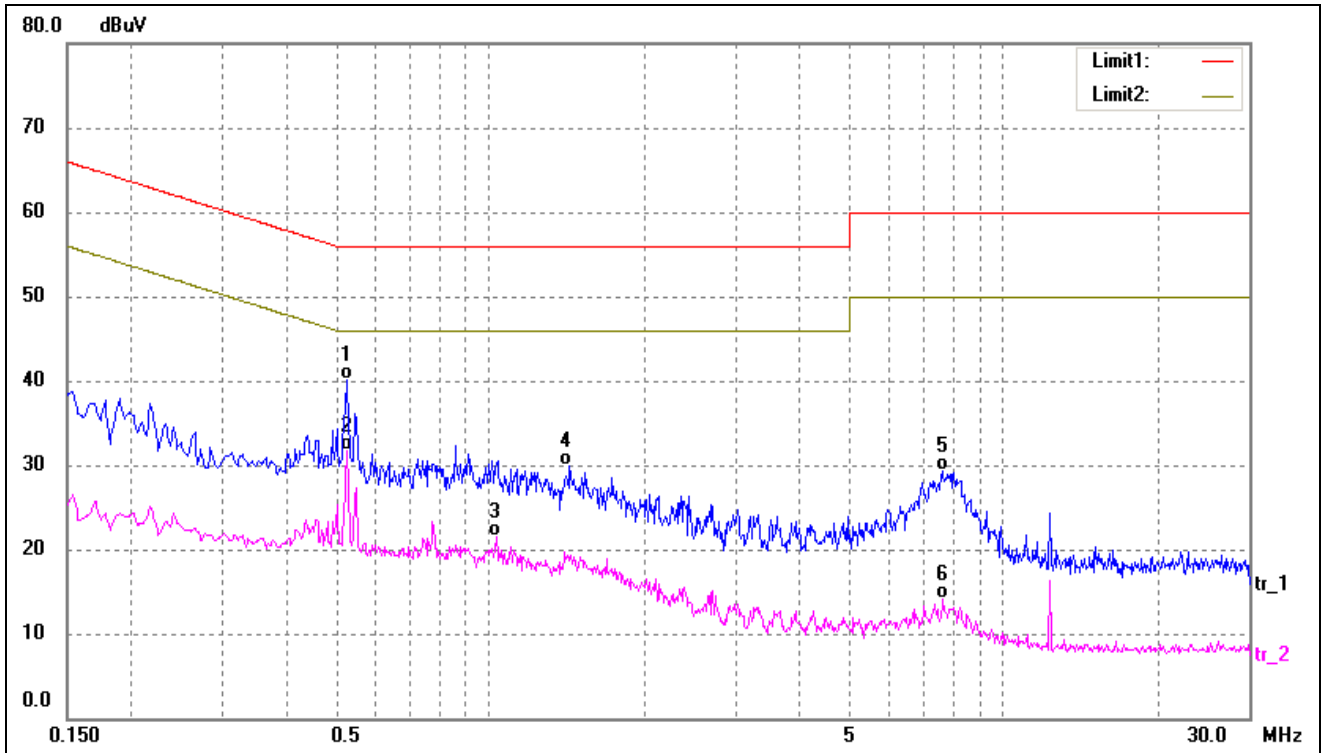
9.4 Summary of Test Results/Plots

Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.5260	27.12	10.22	37.34	56.00	-18.66	QP
2*	0.5260	18.19	10.22	28.41	46.00	-17.59	AVG
3	1.0260	9.77	10.20	19.97	46.00	-26.03	AVG
4	1.3580	19.01	10.22	29.23	56.00	-26.77	QP
5	7.3060	3.93	10.25	14.18	50.00	-35.82	AVG
6	7.4780	19.42	10.25	29.67	60.00	-30.33	QP

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.5260	29.89	10.22	40.11	56.00	-15.89	QP
2*	0.5260	21.57	10.22	31.79	46.00	-14.21	AVG
3	1.0300	11.21	10.20	21.41	46.00	-24.59	AVG
4	1.4260	19.72	10.23	29.95	56.00	-26.05	QP
5	7.5980	19.04	10.26	29.30	60.00	-30.70	QP
6	7.6300	3.85	10.26	14.11	50.00	-35.89	AVG

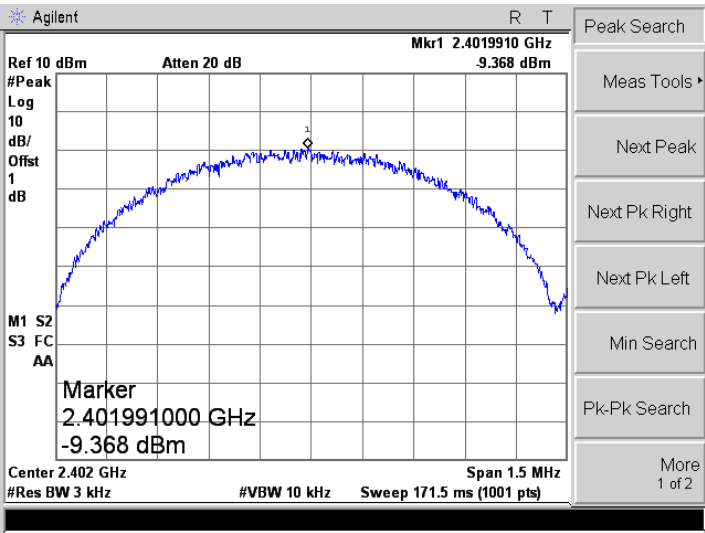
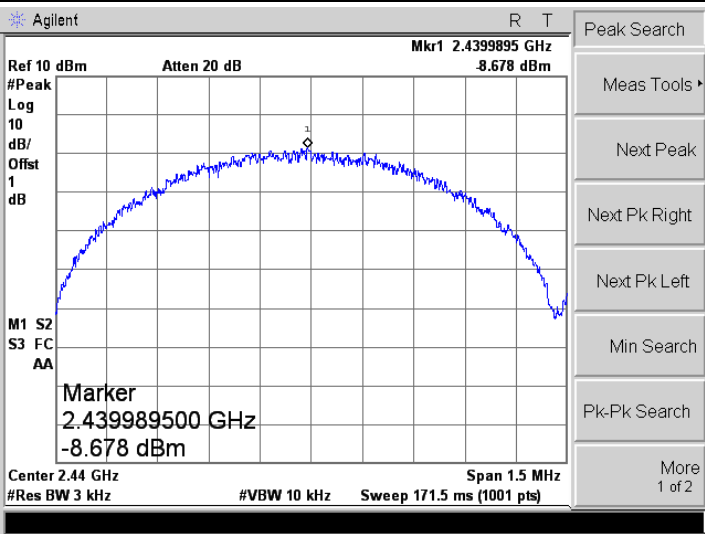
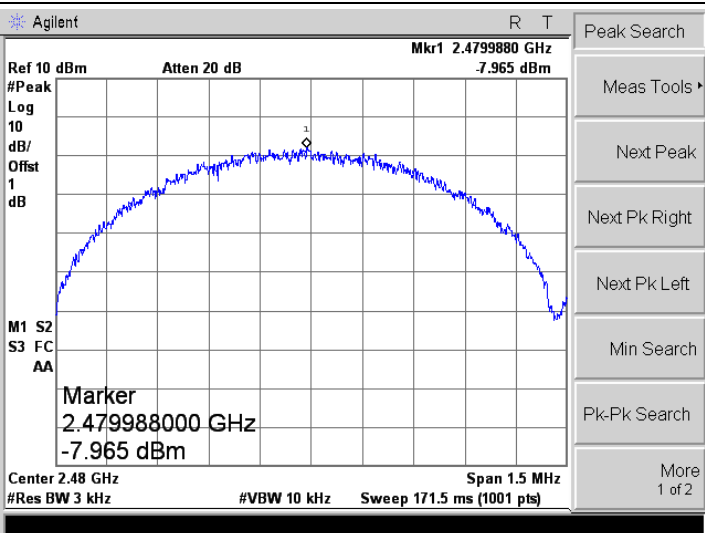
APPENDIX SUMMARY

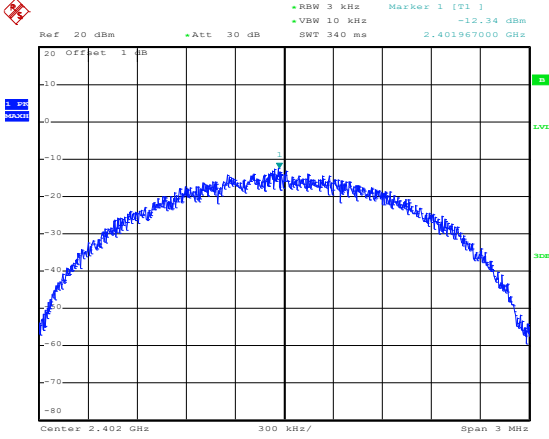
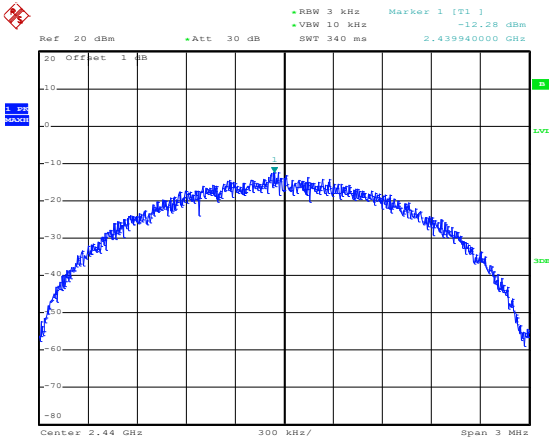
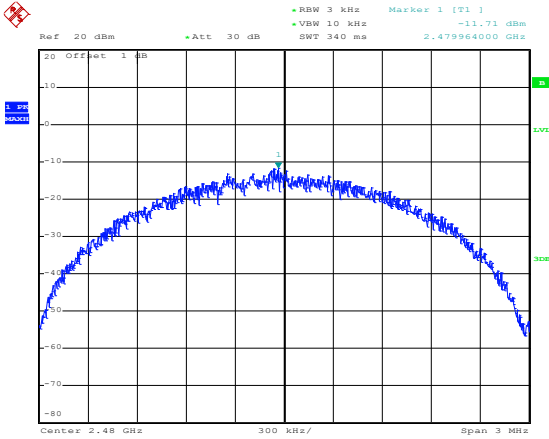
Project No.	WTX20X09067984W	Test Engineer	shaw
Start date	2020/9/28	Finish date	2020/9/28
Temperature	24.7°C	Humidity	53%

APPENDIX	Description of Test Item	Result
A	Power Spectral Density	Compliant
B	DTS Bandwidth	Compliant
C	RF Output Power	Compliant
D	Conducted Out of Band Emissions	Compliant

APPENDIX A

Power Spectral Density			
Test Mode	Test Channel	Power Spectral Density dBm/3kHz	Limit dBm/3kHz
GFSK(BLE) 1M	Low	-9.368	8
	Middle	-8.678	8
	High	-7.965	8
GFSK(BLE) 2M	Low	-12.34	8
	Middle	-12.28	8
	High	-11.71	8

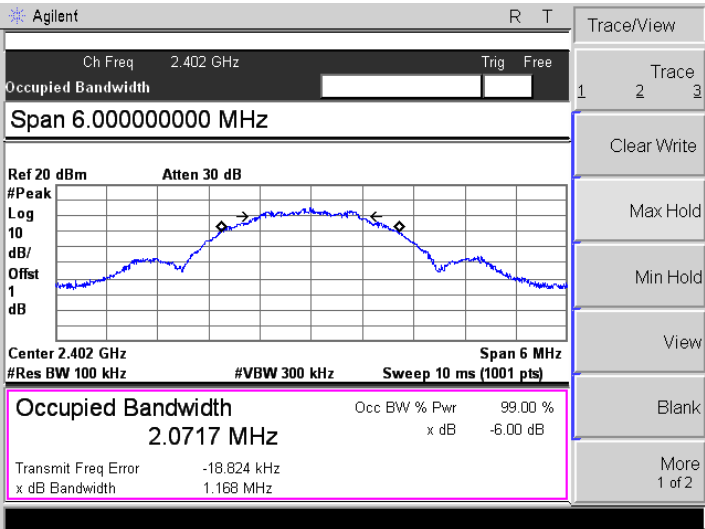
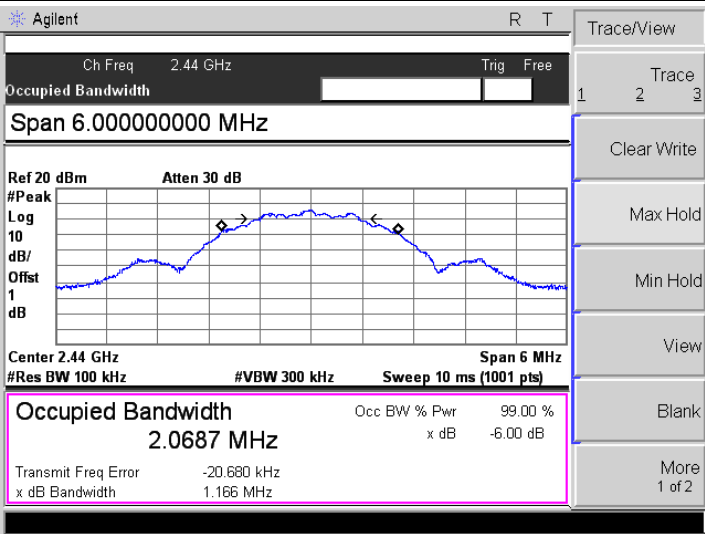
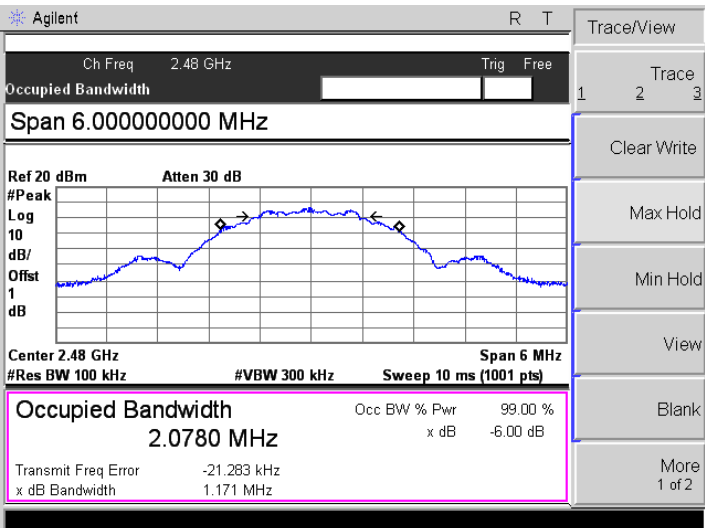
<p>1M-Low</p>	
<p>1M-Middle</p>	
<p>1M-High</p>	

<p>2M-Low</p>	 <p>Ref 20 dBm +Att 30 dB -12.34 dBm RBW 3 kHz VSW 10 kHz SWT 340 ms 2.401967000 GHz 20 Offset 1 dB Center 2.402 GHz 300 kHz/ Span 3 MHz</p> <p>Date: 28.OCT.2020 15:33:47</p>
<p>2M-Middle</p>	 <p>Ref 20 dBm +Att 30 dB -12.28 dBm RBW 3 kHz VSW 10 kHz SWT 340 ms 2.439940000 GHz 20 Offset 1 dB Center 2.44 GHz 300 kHz/ Span 3 MHz</p> <p>Date: 28.OCT.2020 15:33:25</p>
<p>2M-High</p>	 <p>Ref 20 dBm +Att 30 dB -11.71 dBm RBW 3 kHz VSW 10 kHz SWT 340 ms 2.479964000 GHz 20 Offset 1 dB Center 2.48 GHz 300 kHz/ Span 3 MHz</p> <p>Date: 28.OCT.2020 15:32:59</p>

APPENDIX B

Test Mode	Test Channel	6 dB Bandwidth kHz	Limit kHz
GFSK(BLE) 1M	Low	717.865	≥ 500
	Middle	706.253	≥ 500
	High	705.817	≥ 500
GFSK(BLE) 2M	Low	1168	≥ 500
	Middle	1166	≥ 500
	High	1171	≥ 500

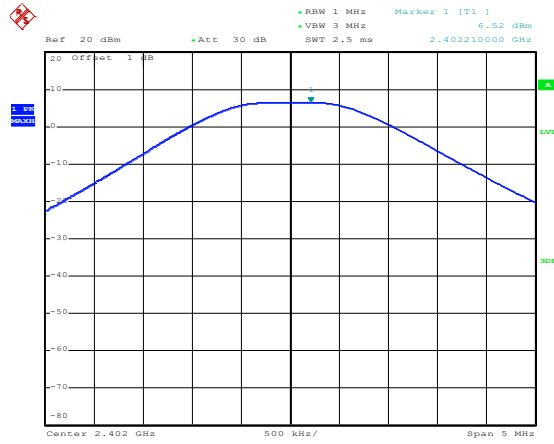
<p>1M-Low</p>	
<p>1M-Middle</p>	
<p>1M-High</p>	

<p>2M-Low</p>	 <p>Agilent R T</p> <p>Ch Freq 2.402 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Span 6.00000000 MHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log</p> <p>10 dB/</p> <p>Offst</p> <p>1 dB</p> <p>Center 2.402 GHz Span 6 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 2.0717 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -18.824 kHz</p> <p>x dB Bandwidth 1.168 MHz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
<p>2M-Middle</p>	 <p>Agilent R T</p> <p>Ch Freq 2.44 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Span 6.00000000 MHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log</p> <p>10 dB/</p> <p>Offst</p> <p>1 dB</p> <p>Center 2.44 GHz Span 6 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 2.0687 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -20.680 kHz</p> <p>x dB Bandwidth 1.166 MHz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
<p>2M-High</p>	 <p>Agilent R T</p> <p>Ch Freq 2.48 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Span 6.00000000 MHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log</p> <p>10 dB/</p> <p>Offst</p> <p>1 dB</p> <p>Center 2.48 GHz Span 6 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 2.0780 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -21.283 kHz</p> <p>x dB Bandwidth 1.171 MHz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>

APPENDIX C

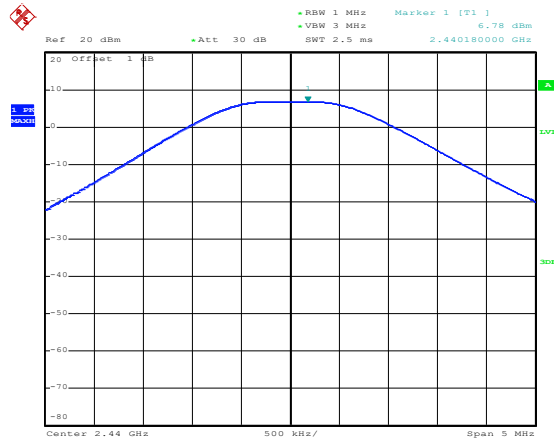
RF Output Power			
Test Mode	Test Channel	Reading dBm	Limit dBm
GFSK(BLE) 1M	Low	6.52	30.00
	Middle	6.78	30.00
	High	7.29	30.00
GFSK(BLE) 2M	Low	6.42	30.00
	Middle	6.45	30.00
	High	7.03	30.00

1M-Low



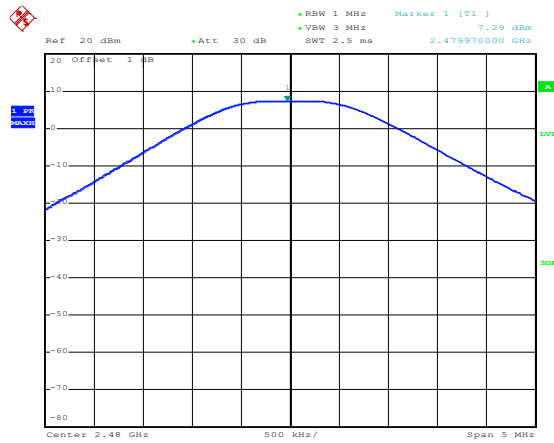
Date: 28.SEP.2020 16:41:48

1M-Middle

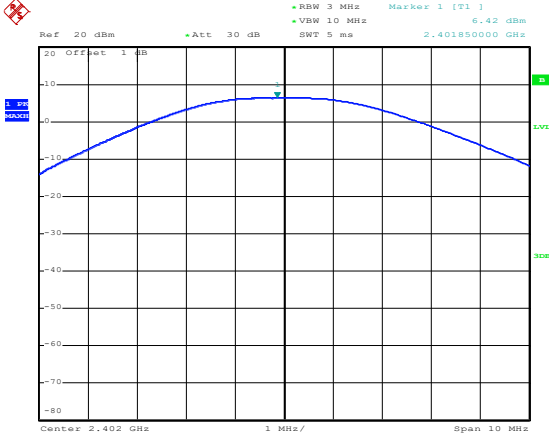
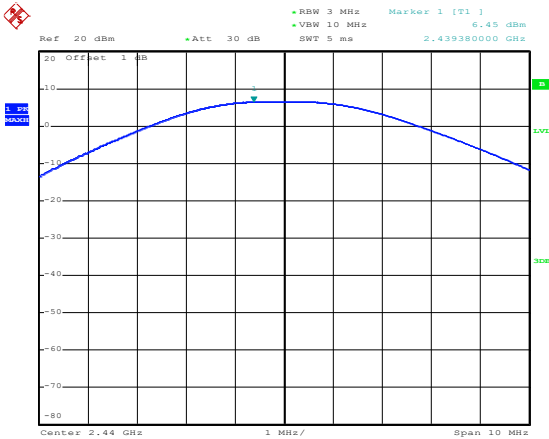
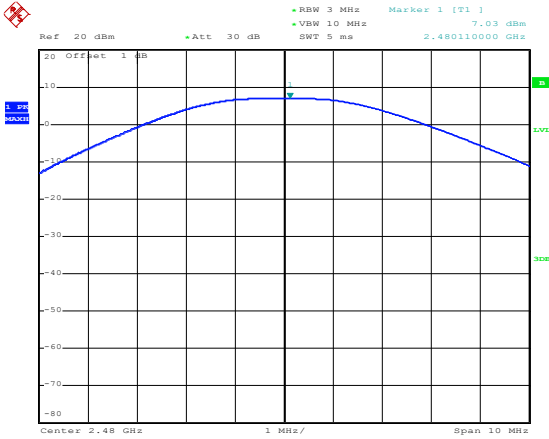


Date: 28.SEP.2020 16:42:17

1M-High

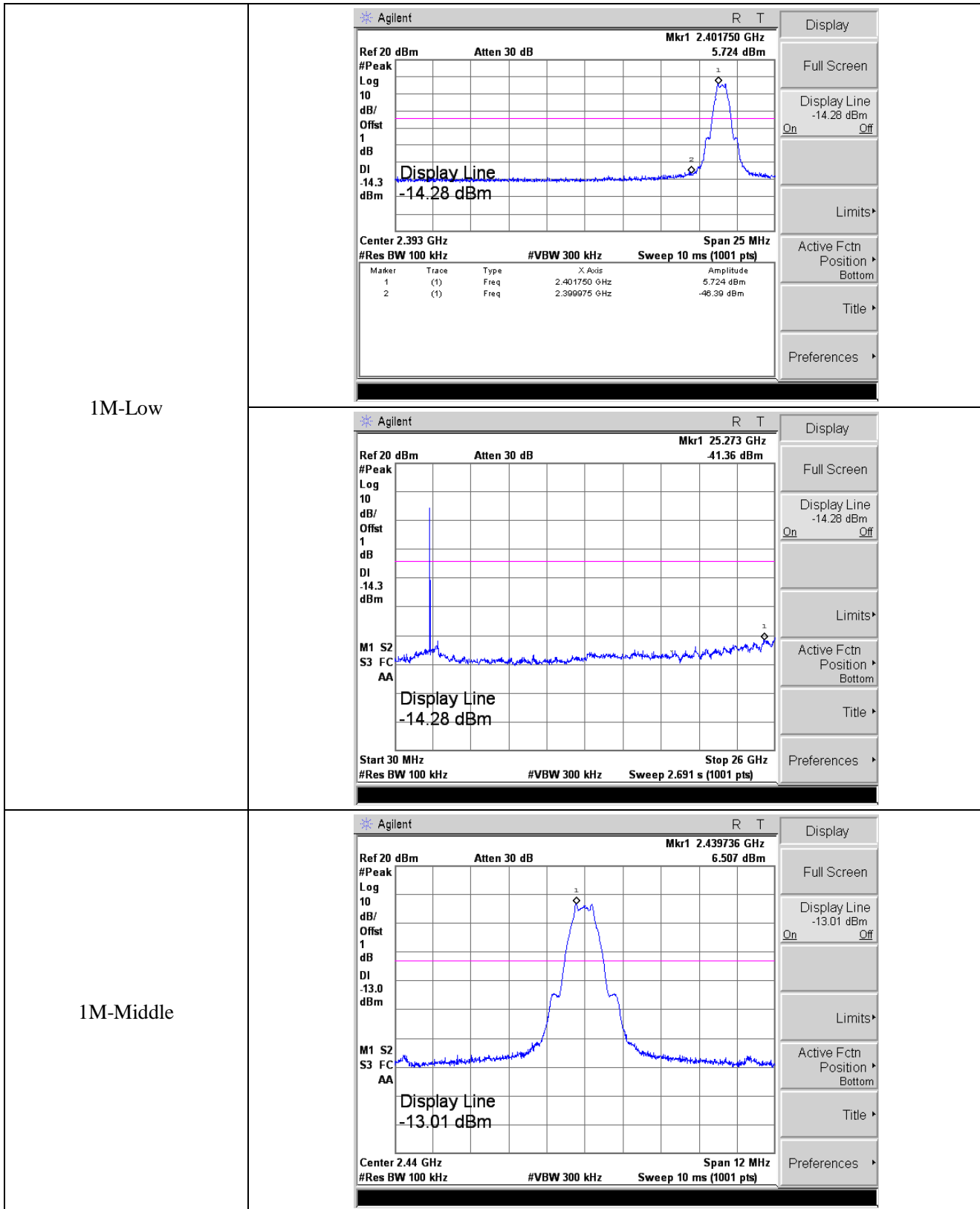


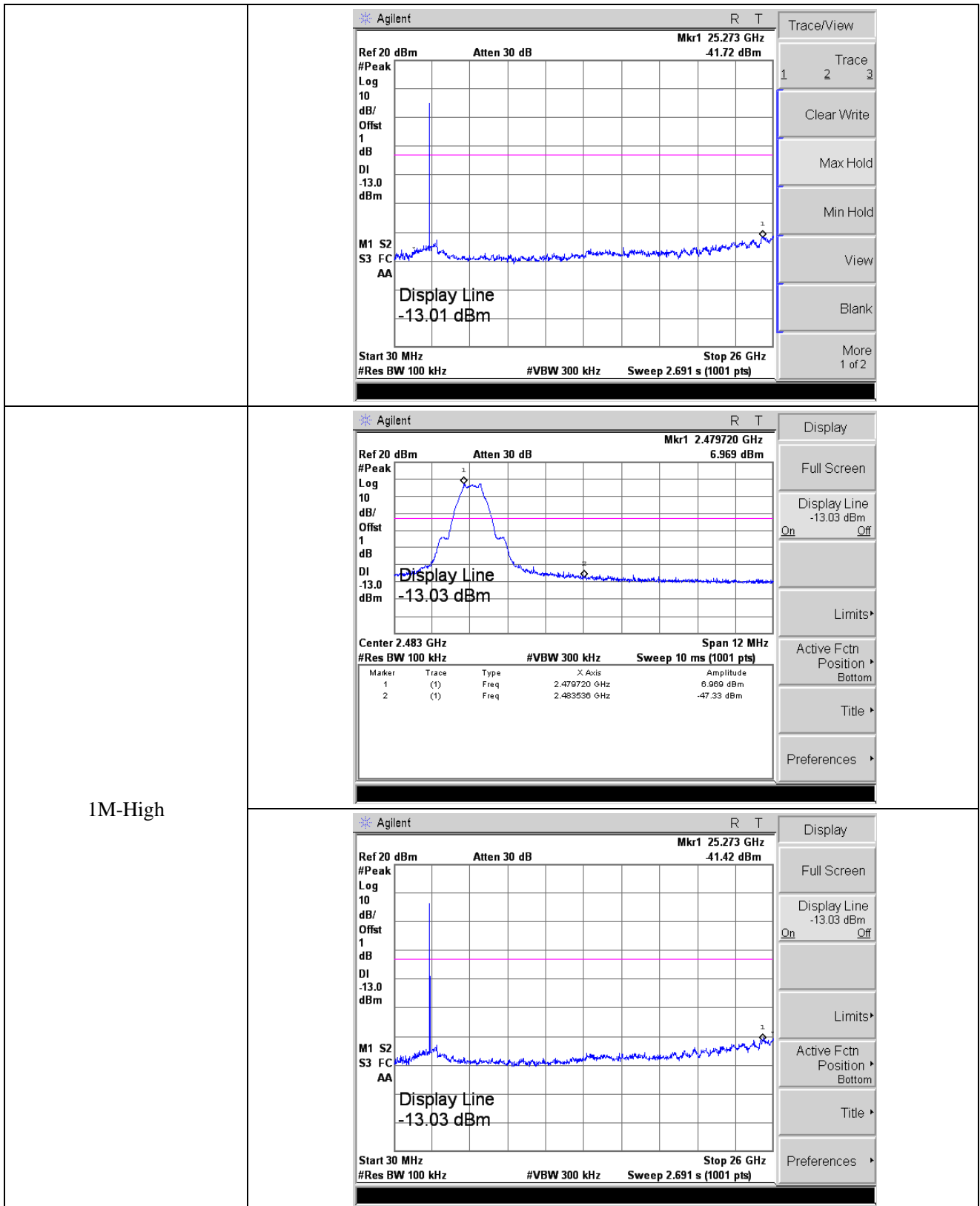
Date: 28.SEP.2020 16:42:47

<p>2M-Low</p>	 <p>Ref 20 dBm +Att 30 dB RBW 3 MHz Marker 1 [T1] 6.42 dBm VBW 10 MHz SWT 5 ms 2.401850000 GHz</p> <p>20 Offset 1 dB</p> <p>Center 2.402 GHz 1 MHz/ Span 10 MHz</p> <p>Date: 28.OCT.2020 15:28:57</p>
<p>2M-Middle</p>	 <p>Ref 20 dBm +Att 30 dB RBW 3 MHz Marker 1 [T1] 6.45 dBm VBW 10 MHz SWT 5 ms 2.439380000 GHz</p> <p>20 Offset 1 dB</p> <p>Center 2.44 GHz 1 MHz/ Span 10 MHz</p> <p>Date: 28.OCT.2020 15:29:44</p>
<p>2M-High</p>	 <p>Ref 20 dBm +Att 30 dB RBW 3 MHz Marker 1 [T1] 7.03 dBm VBW 10 MHz SWT 5 ms 2.480110000 GHz</p> <p>20 Offset 1 dB</p> <p>Center 2.48 GHz 1 MHz/ Span 10 MHz</p> <p>Date: 28.OCT.2020 15:31:50</p>

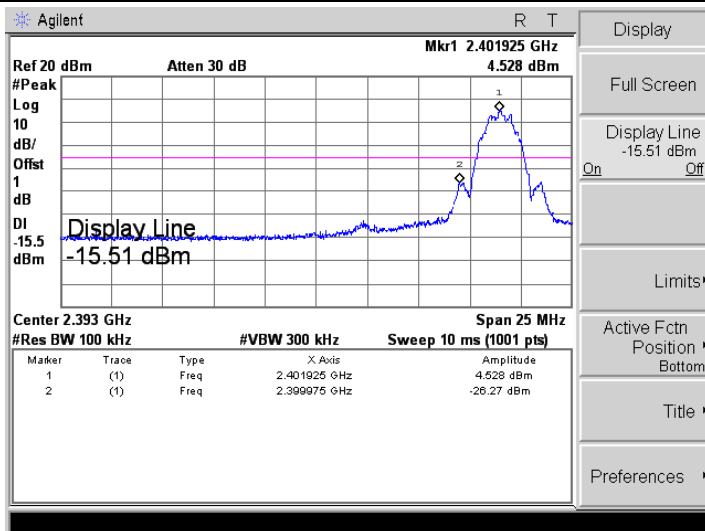
APPENDIX D

Conducted Out of Band Emissions

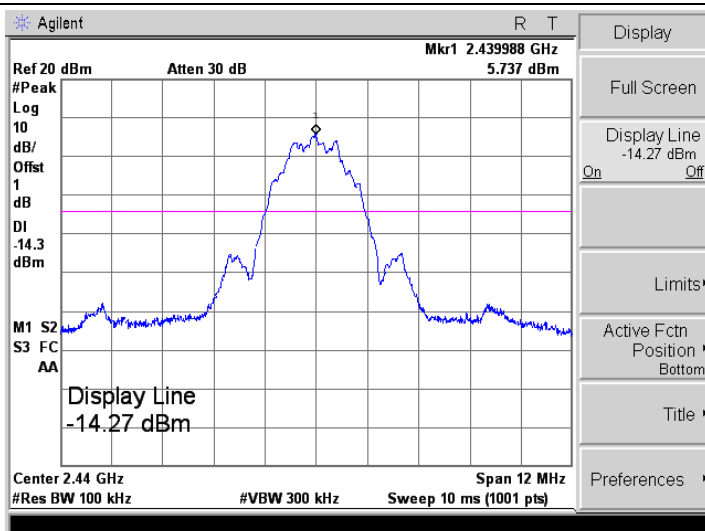
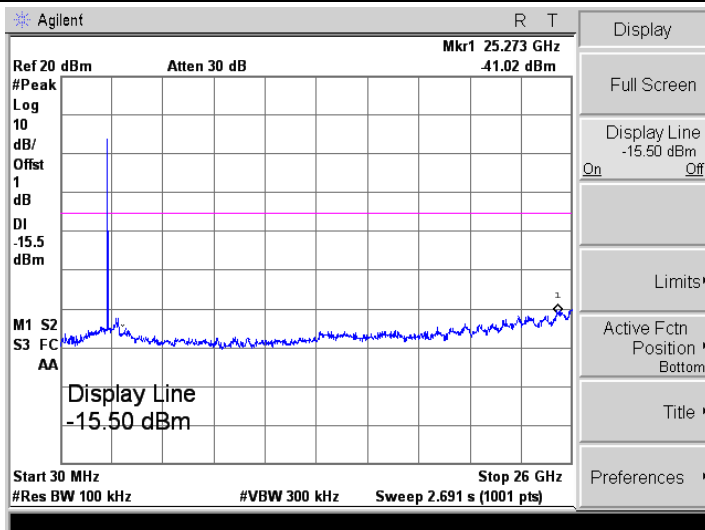


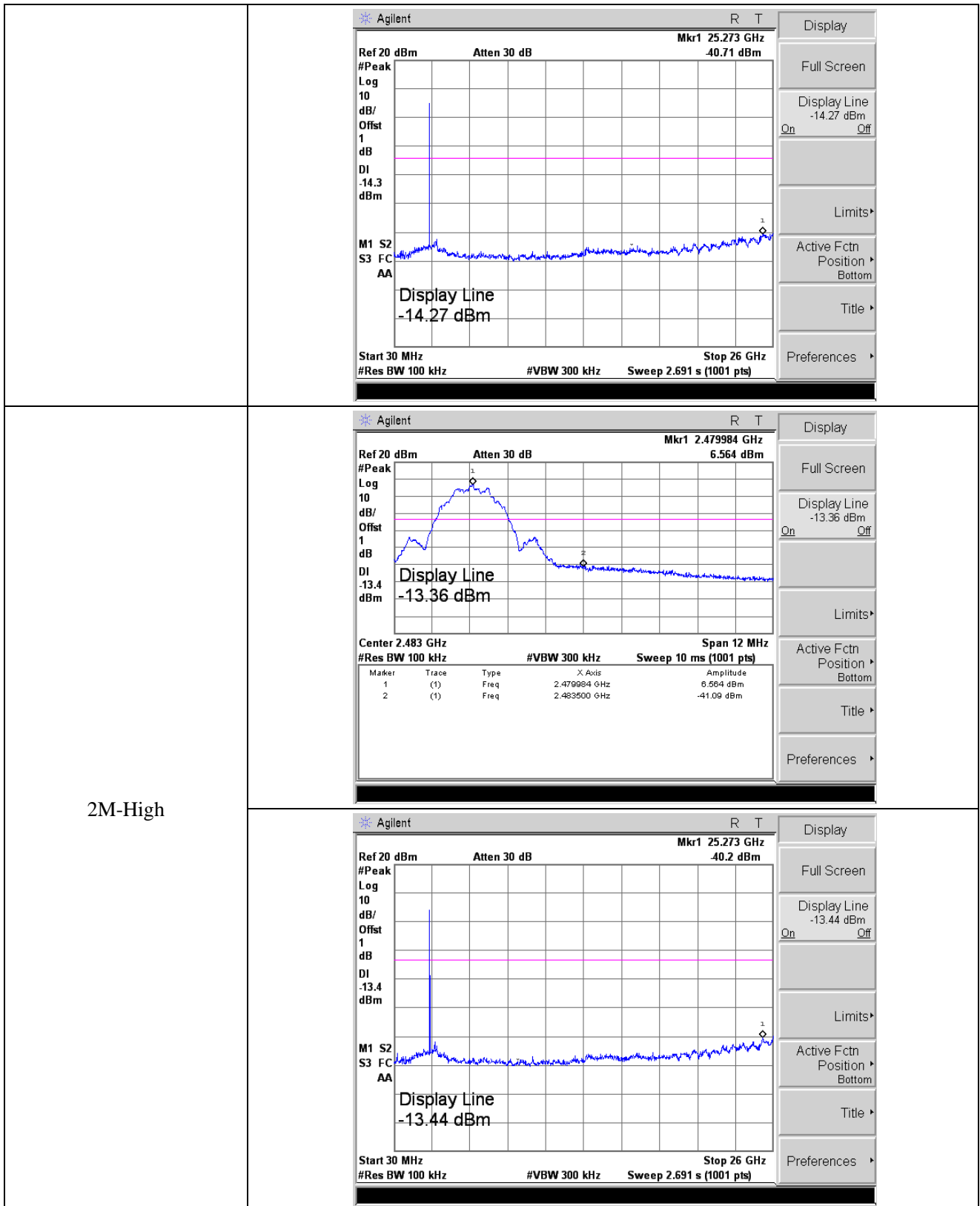


2M-Low



2M-Middle





2M-High

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

******* END OF REPORT *******