

FCC Part 15C Measurement and Test Report

For

Shenzhen AngSi Technology Co., Ltd

901B, Ling Yun Building, Hong Lang North No.2 Road, Bao An

District, ShenZhen PRC

FCC ID: 2AGA6-OONTZA3SH

FCC Rule(s): FCC Part 15.247

Product Description: Bluetooth speaker

Tested Model: OontZ Angle 3 Shower

Report No.: <u>STR18088270I-2</u>

Sample Receipt Date: 2018-08-24

Tested Date: <u>2018-08-24 to 2018-09-03</u>

Issued Date: <u>2018-09-03</u>

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM Test Technology Co., Ltd.



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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Shenzhen AngSi Technology Co., Ltd

Address of applicant: 901B, Ling Yun Building, Hong Lang North No.2 Road,

Bao An District, ShenZhen PRC

Manufacturer: Shenzhen AngSi Technology Co., Ltd

Address of manufacturer: 901B, Ling Yun Building, Hong Lang North No.2 Road,

Bao An District, ShenZhen PRC

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Note: The test data is gathered from a production sample, provided by the manufacturer.

Technical Characteristics of EUT				
Bluetooth Version:	V4.2 (BLE mode)			
Frequency Range:	2402-2480MHz			
RF Output Power:	1.526dBm (Conducted)			
Data Rate:	1Mbps			
Modulation:	GFSK			
Quantity of Channels:	40			
Channel Separation:	2MHz			
Type of Antenna:	Integral			
Antenna Gain:	4.1dBm			
Lowest Internal Frequency of EUT:	26MHz			



1.2 Test Standards

The tests were performed according to following standards:

<u>FCC Rules Part 15.247:</u> 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.

<u>558074 D01 DTS Meas Guidance v04</u>: GUIDANCE FOR PERFORMING COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEMS (DTS) OPERATING UNDER SECTION 15.247

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 DTS Meas Guidance v04

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

FCC – Registration No.: 125990

Shenzhen SEM Test Technology Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

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

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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					
/	/	/	/		

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

Auxiliary Equipment List and Details				
Description	Manufacturer	Model	Serial Number	
iPhone6 Plus	Apple	MGAJ2ZP/A	FK1PQ4JBG5QW	
Adapter	Dell lnc.	PSAI10R-050Q	/	
USB CABLE	UGREEN	10836	/	
AUX Line	PHILIPS	SWA5511/93A	/	

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1.6 Measurement Uncertainty

Measurement uncertainty				
Parameter	Conditions	Uncertainty		
RF Output Power	Conducted	±0.42dB		
Occupied Bandwidth	Conducted	±1.5%		
Power Spectral Density	Conducted	±1.8dB		
Conducted Spurious Emission	Conducted	±2.17dB		
	Conducted	9-150kHz ±3.74dB		
Conducted Emissions		$0.15-30 \text{MHz} \pm 3.34 \text{dB}$		
		30-200MHz ±4.52dB		
Transmitter Spurious Emissions	Radiated	0.2-1GHz ±5.56dB		
		1-6GHz ±3.84dB		
		6-18GHz ±3.92dB		



1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
CEMT 1072	Spectrum	A - 11 4	E4407D	N/X/41/4/04/00	2010 05 22	2010 05 21
SEMT-1072	Analyzer	Agilent	E4407B	MY41440400	2018-05-22	2019-05-21
SEMT-1031	Spectrum	Rohde &	FSP30	836079/035	2018-05-22	2019-05-21
SEM11-1031	Analyzer	Schwarz	rarau	830079/033	2016-03-22	2019-03-21
SEMT-1007	EMI Test	Rohde &	ESVB	825471/005	2018-05-22	2019-05-21
SEN11-1007	Receiver	Schwarz	ESVD	8234717003	2010-03-22	2019-03-21
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2018-05-22	2019-05-21
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2018-05-22	2019-05-21
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2017-06-08	2020-06-07
SEMT-1042	Horn Antenna	ETS	3117	00086197	2017-06-08	2020-06-07
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2017-06-08	2020-06-07
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2017-06-08	2020-06-07
SEMT-1001	EMI Test	Rohde &	ESPI	101611	2018-05-22	2019-05-21
SEM1-1001	Receiver	Schwarz	ESPI	101011	2018-03-22	2019-03-21
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2018-05-22	2019-05-21
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2018-05-22	2019-05-21
SEMT-1168	Pre-amplifier	Direction Systems Inc.	PAP-0126	14141-12838	2018-05-22	2019-05-21
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2018-05-22	2019-05-21
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2018-05-22	2019-05-21
SEMT-1170	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2018-03-19	2021-03-18
SEMT-1166	Power Limiter	Agilent	N9356B	MY45450376	2018-05-22	2019-05-21
SEMT-1048	RF Limiter	ATTEN	AT-BSF-2400~2500	/	2018-05-22	2019-05-21
SEMT-1076	RF Switcher	Top Precision	RCS03-A2	/	2018-05-22	2019-05-21
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	2018-03-19	2019-03-18
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	2018-03-19	2019-03-18
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	2018-03-19	2019-03-18
SEMT-C004	Cable	Zheng DI	2M0RFC	/	2018-03-19	2019-03-18
SEMT-C005	Cable	Zheng DI	1M0RFC	/	2018-03-19	2019-03-18
SEMT-C006	Cable	Zheng DI	1M0RFC	/	2018-03-19	2019-03-18



2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§ 2.1093	RF Exposure	Compliant
§ 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)	6 dB 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. RF Exposure

3.1 Standard Applicable

According to § 1.1307 and § 2.1093, the portable transmitter must comply the RF exposure requirements.

3.2 Test Result

This product complied with the requirement of the RF exposure, please see the RF Exposure Report.



4. Antenna Requirement

4.1 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.

4.2 Evaluation Information

This product has an integral antenna, fulfill the requirement of this section.

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5. Power Spectral Density

5.1 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.

5.2 Test Procedure

According to the KDB 558074, 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 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.

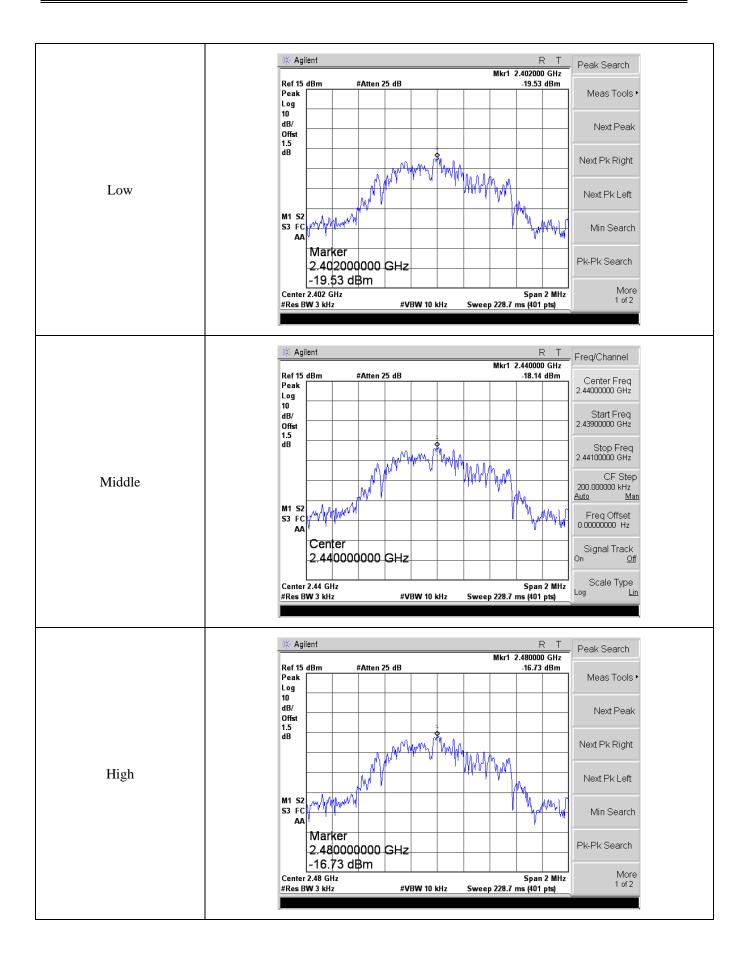
5.3 Summary of Test Results/Plots

Test Mode	Test Channel	Power Spectral Density dBm/3kHz	Limit dBm/3kHz
	2402	-19.53	8
GFSK(BLE)	2440	-18.14	8
	2480	-16.73	8

Please refer to the following test plots:

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6. 6dB Bandwidth

6.1 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.

6.2 Test Procedure

- 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.

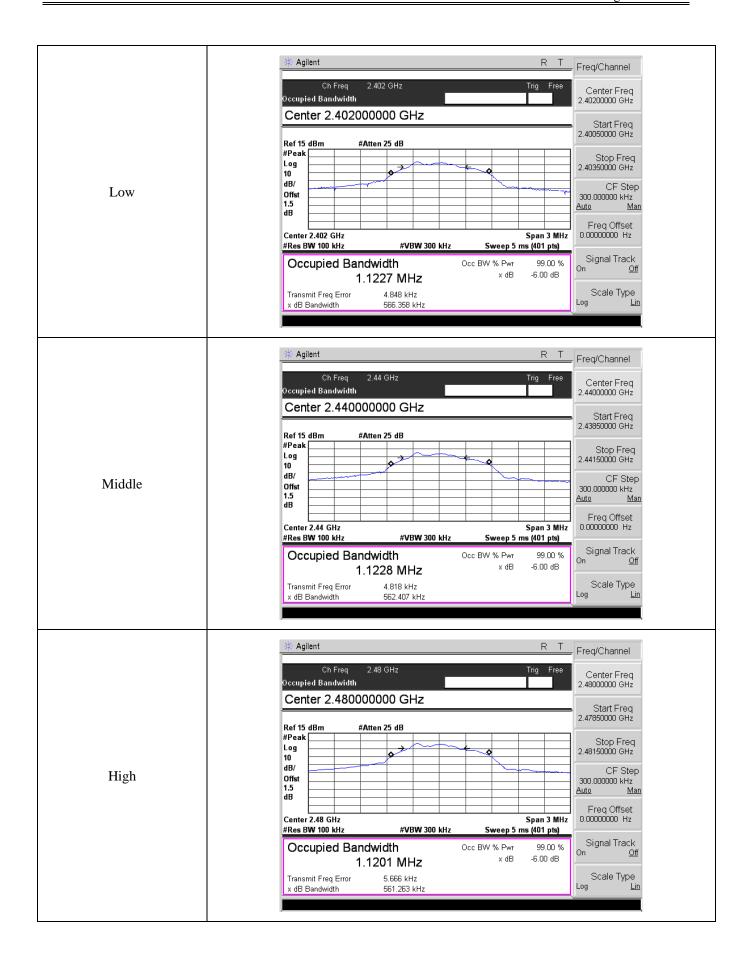
6.3 Summary of Test Results/Plots

Test Made	Toot Channal	Test Channel 6 dB Bandwidth	
Test Mode	Test Channel	kHz	kHz
	Low	566.358	≥500
GFSK(BLE)	Middle	562.407	≥500
	High	561.263	≥500

Please refer to the following test plots:

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7. RF Output Power

7.1 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.

7.2 Test Procedure

According to section KDB-558074 D01 v04 section 9.1.1, this procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

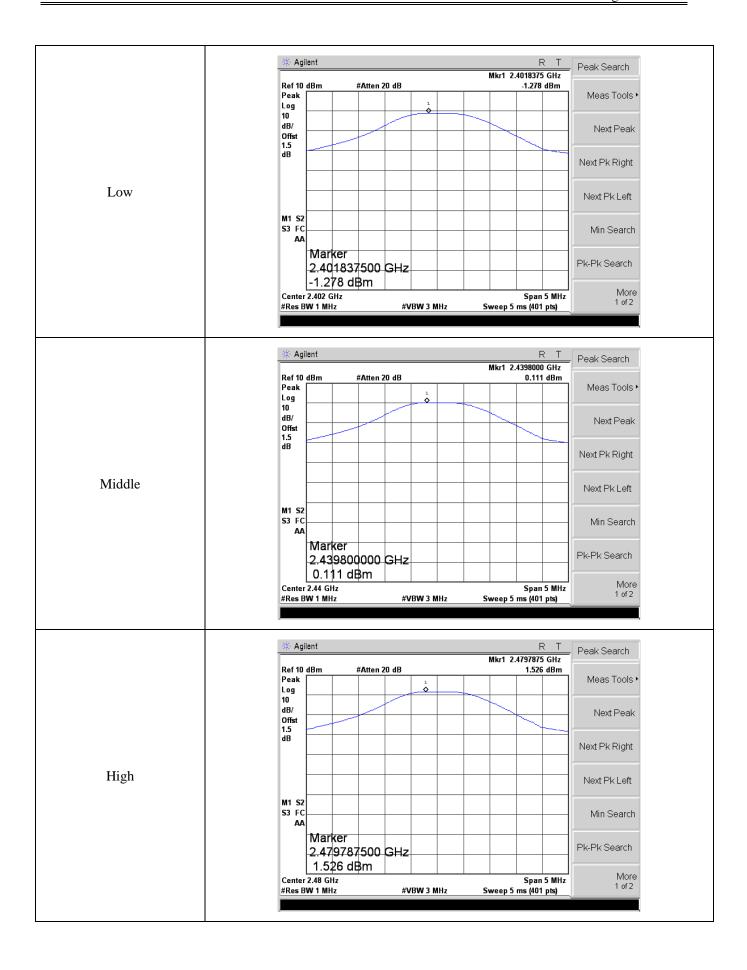
- a) Set the RBW \geq DTS bandwidth.
- b) Set VBW $\geq 3 \times RBW$.
- c) Set span $\geq 3 \times RBW$
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

7.3 Summary of Test Results/Plots

Test Mode	Test Channel	Reading	Output Power	Limit
Test Mode	Test Chamier	dBm	mW	mW
	Low	-1.278	0.745	1000
GFSK(BLE)	Middle	0.111	1.026	1000
	High	1.526	1.421	1000

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8. Field Strength of Spurious Emissions

8.1 Standard Applicable

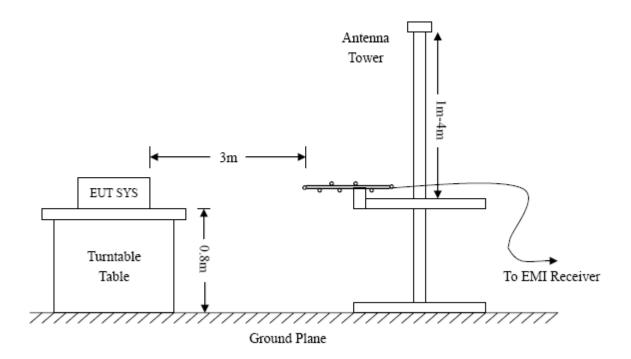
According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within 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).

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.

8.2 Test Procedure

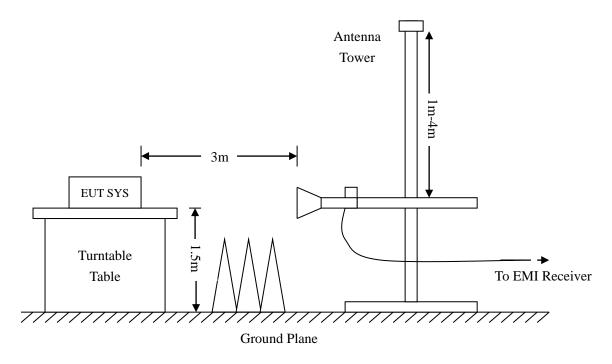
The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

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.



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Frequency:9kHz-30MHz	Frequency:30MHz-1GHz	Frequency : Above 1GHz
RBW=10KHz,	RBW=120KHz,	RBW=1MHz,
VBW =30KHz	VBW=300KHz	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, OP	Detector function = peak, AV

8.3 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:

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

8.4 Summary of Test Results/Plots

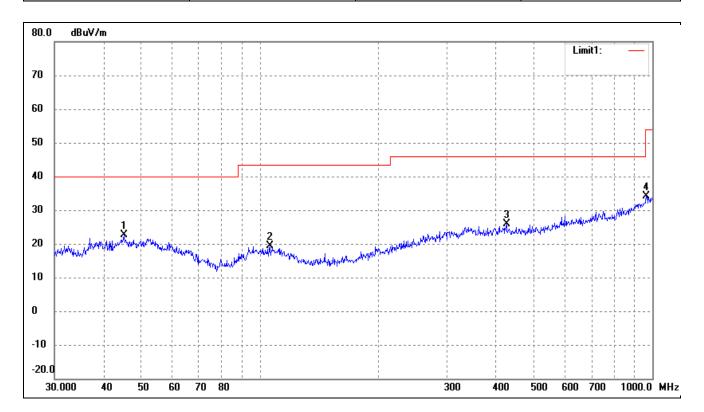
Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

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> Spurious Emissions Below 1GHz

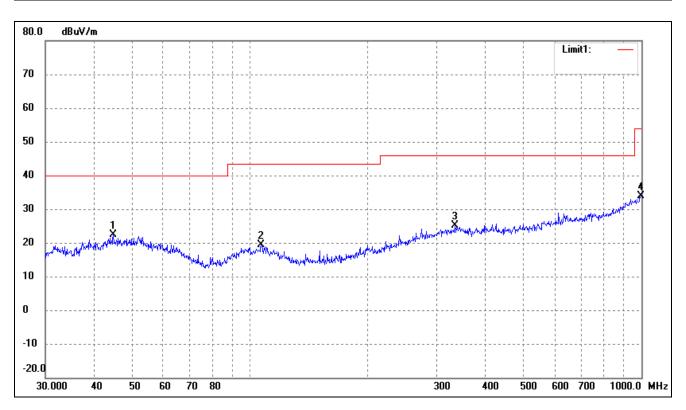
Test Channel	Low	Polarity:	Horizontal
Test Chainlei	LOW	i blanty.	Homzomai



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	45.0583	35.70	-12.97	22.73	40.00	-17.27	217	100	peak
2	106.0126	33.38	-14.01	19.37	43.50	-24.13	193	100	peak
3	425.0280	32.13	-6.22	25.91	46.00	-20.09	89	100	peak
4	965.5421	30.84	3.20	34.04	54.00	-19.96	121	100	peak



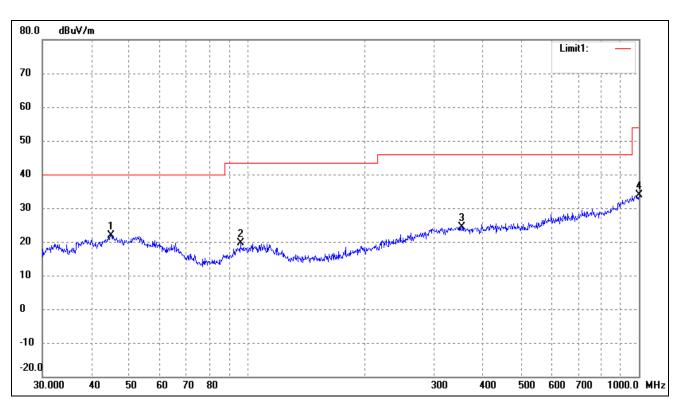




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	44.7433	35.32	-12.99	22.33	40.00	-17.67	95	100	peak
2	106.7587	33.32	-14.00	19.32	43.50	-24.18	178	100	peak
3	333.6867	31.73	-6.68	25.05	46.00	-20.95	67	100	peak
4	996.4996	29.86	3.98	33.84	54.00	-20.16	97	100	peak



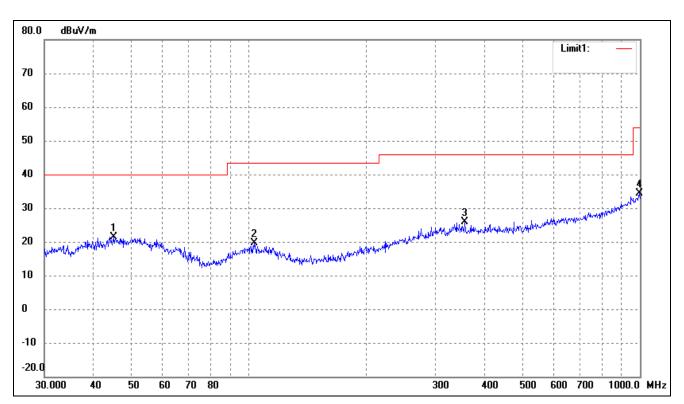




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	44.9006	34.93	-12.99	21.94	40.00	-18.06	147	100	peak
2	96.0986	34.58	-15.04	19.54	43.50	-23.96	97	100	peak
3	352.9433	31.00	-6.57	24.43	46.00	-21.57	111	100	peak
4	1000.0000	29.74	4.04	33.78	54.00	-20.22	121	100	peak



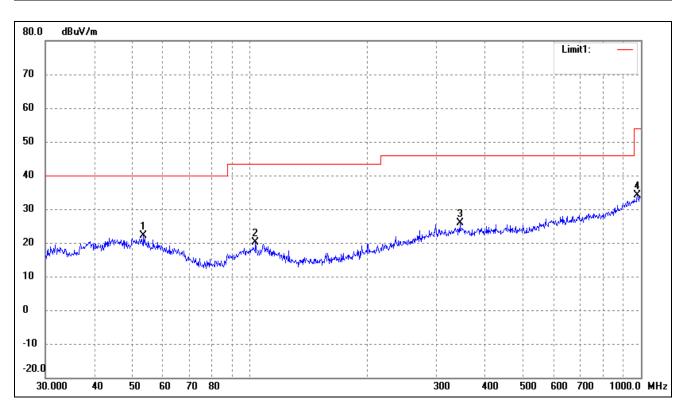




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	45.0583	34.45	-12.97	21.48	40.00	-18.52	53	100	peak
2	103.0800	33.84	-14.21	19.63	43.50	-23.87	100	100	peak
3	356.6758	32.59	-6.69	25.90	46.00	-20.10	102	100	peak
4	996.4996	30.51	3.98	34.49	54.00	-19.51	101	100	peak



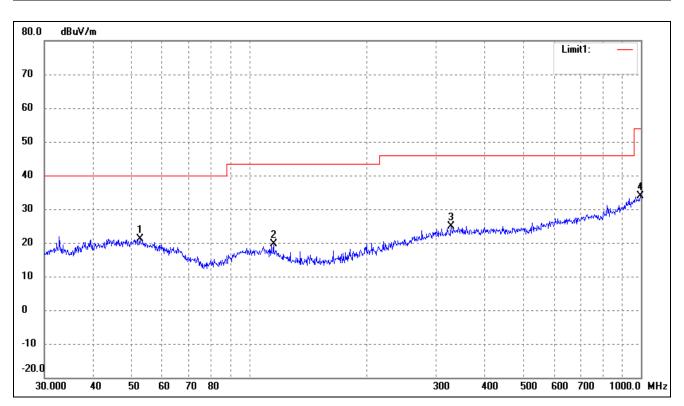




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	53.5052	35.10	-12.94	22.16	40.00	-17.84	351	100	peak
2	103.4421	34.23	-14.16	20.07	43.50	-23.43	99	100	peak
3	344.3855	32.29	-6.49	25.80	46.00	-20.20	73	100	peak
4	979.1804	30.41	3.69	34.10	54.00	-19.90	99	100	peak







No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	52.5753	34.04	-12.85	21.19	40.00	-18.81	309	100	peak
2	115.3205	34.37	-14.83	19.54	43.50	-23.96	92	100	peak
3	327.8873	31.64	-6.85	24.79	46.00	-21.21	70	100	peak
4	996.4996	29.79	3.98	33.77	54.00	-20.23	92	100	peak



> Spurious Emissions Below 1GHz

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
			Low Chann	el-2402MHz			
4804.00	58.02	-3.87	54.15	74.00	-19.85	Н	PK
4804.00	46.44	-3.87	42.57	54.00	-11.43	Н	AV
7206.00	55.93	1.14	57.07	74.00	-16.93	Н	PK
7206.00	42.56	1.19	43.75	54.00	-10.25	Н	AV
4804.00	58.51	-3.86	54.65	74.00	-19.35	V	PK
4804.00	46.23	-3.86	42.37	54.00	-11.63	V	AV
7206.00	54.49	1.10	55.59	74.00	-18.41	V	PK
7206.00	41.48	1.10	42.58	54.00	-11.42	V	AV
			Middle Chan	nel-2440MHz			
4880.00	58.00	-3.74	54.26	74.00	-19.74	Н	PK
4880.00	45.73	-3.74	41.99	54.00	-12.01	Н	AV
7320.00	53.97	1.47	55.44	74.00	-18.56	Н	PK
7320.00	41.31	1.47	42.78	54.00	-11.22	Н	AV
4880.00	59.00	-3.74	55.26	74.00	-18.74	V	PK
4880.00	45.54	-3.74	41.80	54.00	-12.20	V	AV
7320.00	53.96	1.47	55.43	74.00	-18.57	V	PK
7320.00	41.22	1.47	42.69	54.00	-11.31	V	AV
			High Chann	el-2480MHz			
4960.00	58.16	-3.59	54.57	74.00	-19.43	Н	PK
4960.00	46.75	-3.59	43.16	54.00	-10.84	Н	AV
7440.00	52.67	1.79	54.46	74.00	-19.54	Н	PK
7440.00	39.84	1.79	41.63	54.00	-12.37	Н	AV
4960.00	58.71	-3.59	55.12	74.00	-18.88	V	PK
4960.00	46.16	-3.59	42.57	54.00	-11.43	V	AV
7440.00	54.25	1.79	56.04	74.00	-17.96	V	PK
7440.00	41.38	1.79	43.17	54.00	-10.83	V	AV

Note: 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.



9. Out of Band Emissions

9.1 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).

9.2 Test Procedure

According to the KDB 558074 D01 v04, the band-edge radiated test method as follows:

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.

According to the KDB 558074 D01 v04, the conducted spurious emissions test method as follows:

- 1. Set start frequency to DTS channel edge frequency.
- 2. Set stop frequency so as to encompass the spectrum to be examined.
- 3. Set RBW = 100 kHz.
- 4. Set VBW \geq 300 kHz.
- 5. Detector = peak.
- 6. Trace Mode = max hold.
- 7. Sweep = auto couple.
- 8. Allow the trace to stabilize (this may take some time, depending on the extent of the span).
- 9. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

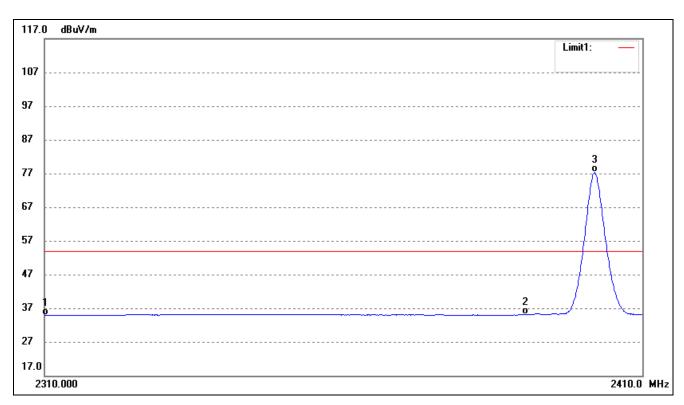
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.



9.3 Summary of Test Results/Plots

Radiated test

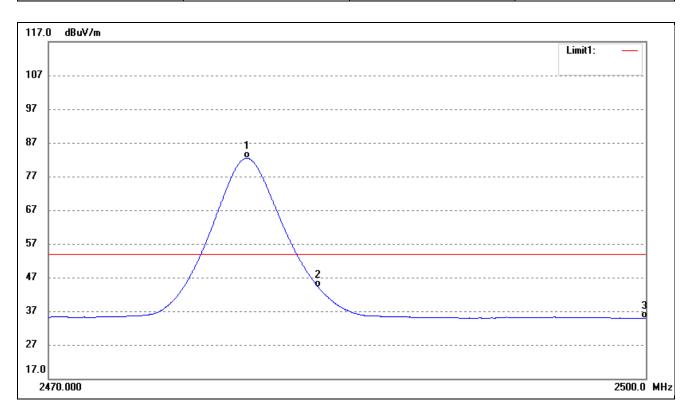




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	42.62	-7.78	34.84	54.00	-19.16	Average Detector
	2310.000	54.66	-7.78	46.88	74.00	-27.12	Peak Detector
2	2390.000	42.44	-7.32	35.12	54.00	-18.88	Average Detector
	2390.000	68.16	-7.32	60.84	74.00	-13.16	Peak Detector
3	2401.843	84.54	-7.25	77.29	/	/	Average Detector
	2401.741	101.71	-7.25	94.46	/	/	Peak Detector



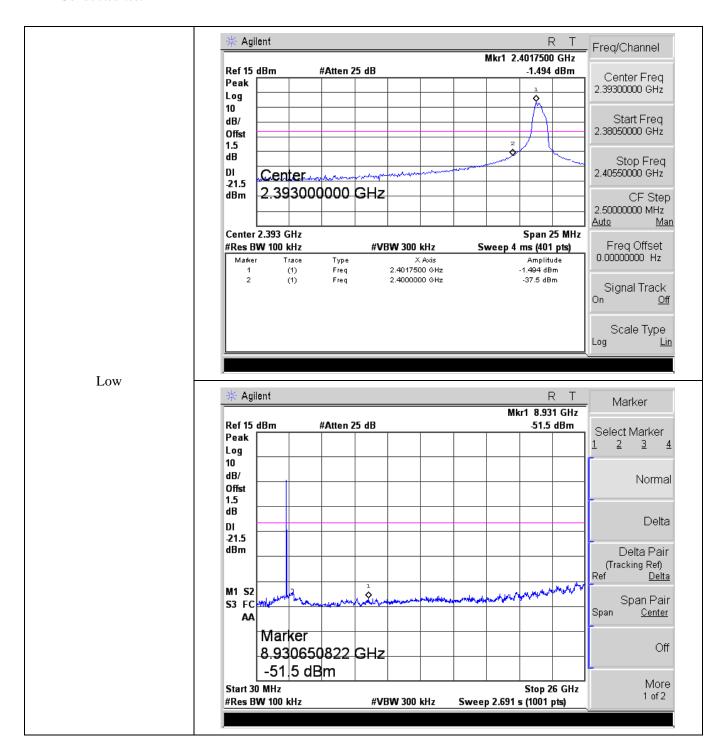




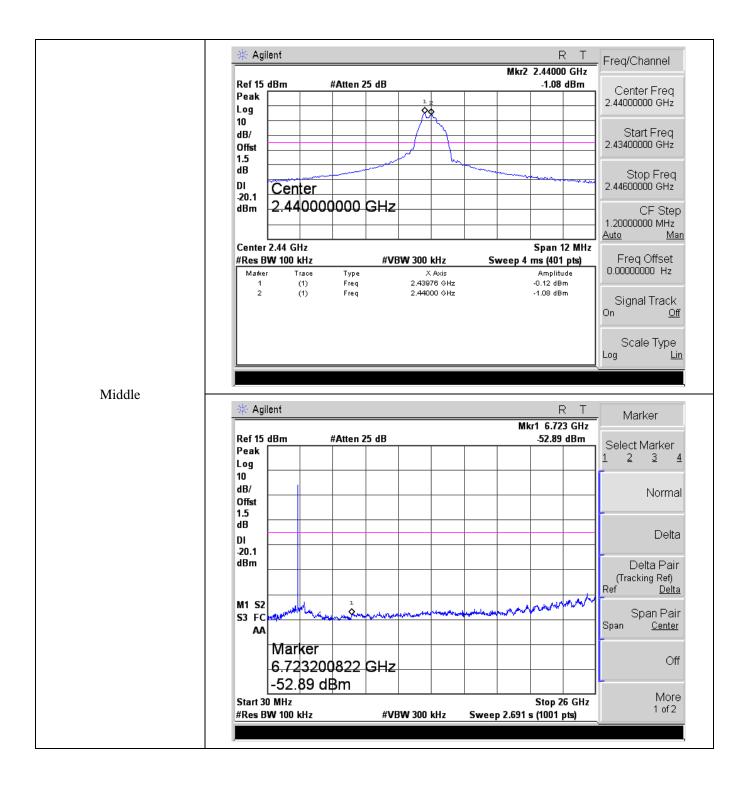
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark	
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)		
1	2479.920	89.23	-6.79	82.44	/	/	Average Detector	
	2479.740	105.72	-6.79	98.93	/	/	Peak Detector	
2	2483.500	50.82	-6.77	44.05	54.00	-9.95	Average Detector	
	2483.500	78.87	-6.77	72.10	74.00	-1.90	Peak Detector	
3	2500.000	41.56	-6.67	34.89	54.00	-19.11	Average Detector	
	2500.000	66.31	-6.67	59.64	74.00	-14.36	Peak Detector	



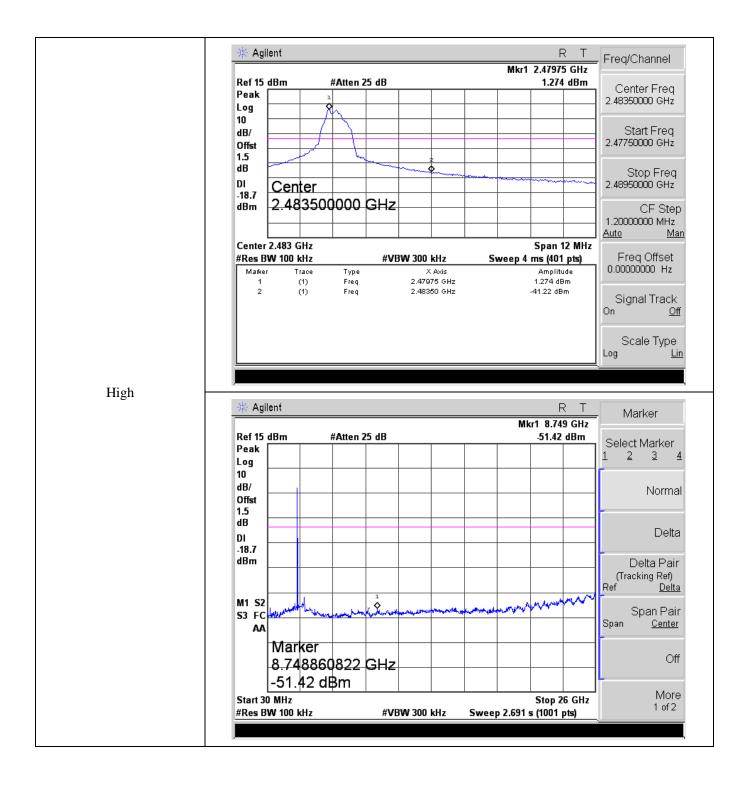
Conducted test













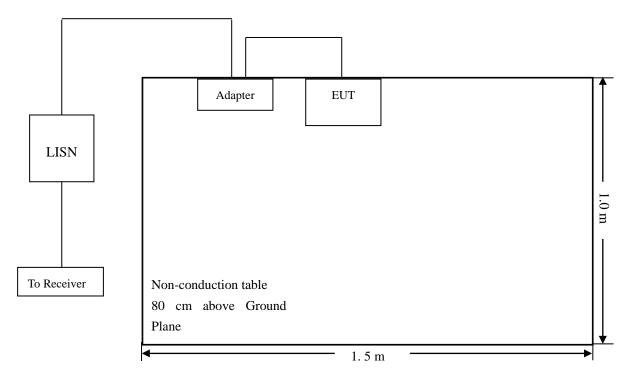
10. Conducted Emissions

10.1 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 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.

10.2 Basic Test Setup Block Diagram



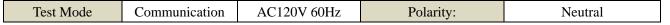
10.3 Test Receiver Setup

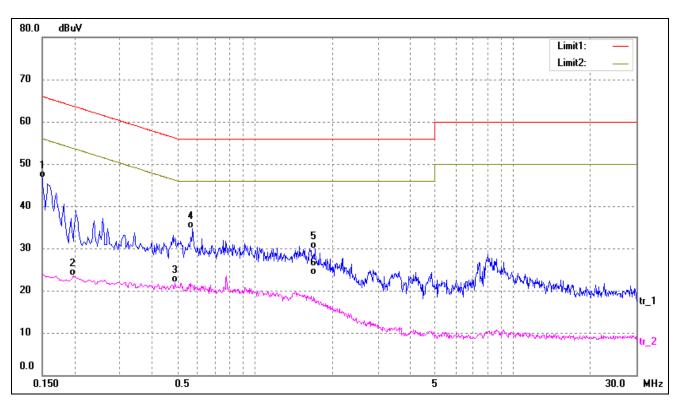
During the conducted emission test, the test receiver was set with the following configurations:

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

10.4 Summary of Test Results/Plots

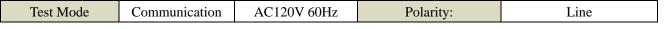


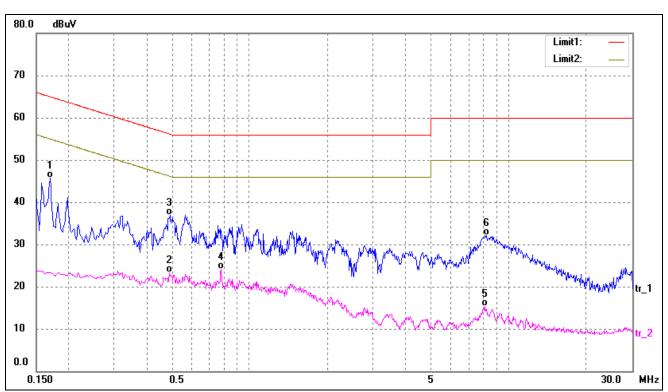




No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1*	0.1500	36.63	10.10	46.73	66.00	-19.27	QP
2	0.1980	13.30	10.12	23.42	53.69	-30.27	AVG
3	0.4900	11.57	10.29	21.86	46.17	-24.31	AVG
4	0.5740	24.44	10.33	34.77	56.00	-21.23	QP
5	1.7100	19.40	10.58	29.98	56.00	-26.02	QP
6	1.7100	13.03	10.58	23.61	46.00	-22.39	AVG







No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1	0.1700	35.57	10.11	45.68	64.96	-19.28	QP
2	0.4900	13.04	10.29	23.33	46.17	-22.84	AVG
3*	0.4940	26.58	10.29	36.87	56.10	-19.23	QP
4	0.7780	13.64	10.42	24.06	46.00	-21.94	AVG
5	8.0780	4.34	10.89	15.23	50.00	-34.77	AVG
6	8.2180	21.30	10.89	32.19	60.00	-27.81	QP

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