

## TEST REPORT

**Product** : Sonic Electric Toothbrush  
**Trade mark** : N/A  
**Model/Type reference** : P80S,K7S  
**Serial Number** : N/A  
**Report Number** : EED32O80006302  
**FCC ID** : 2A4CSBTEB  
**Date of Issue** : Mar. 02, 2022  
**Test Standards** : 47 CFR Part 15 Subpart C  
**Test result** : PASS

Prepared for:

**Clevo Innovation INC**  
**2060 N COLLINS BLVD STE 110 RICHARDSON TX 75080**

Prepared by:

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Date:

Mar. 02, 2022

David Wang

Check No.: 2940040122

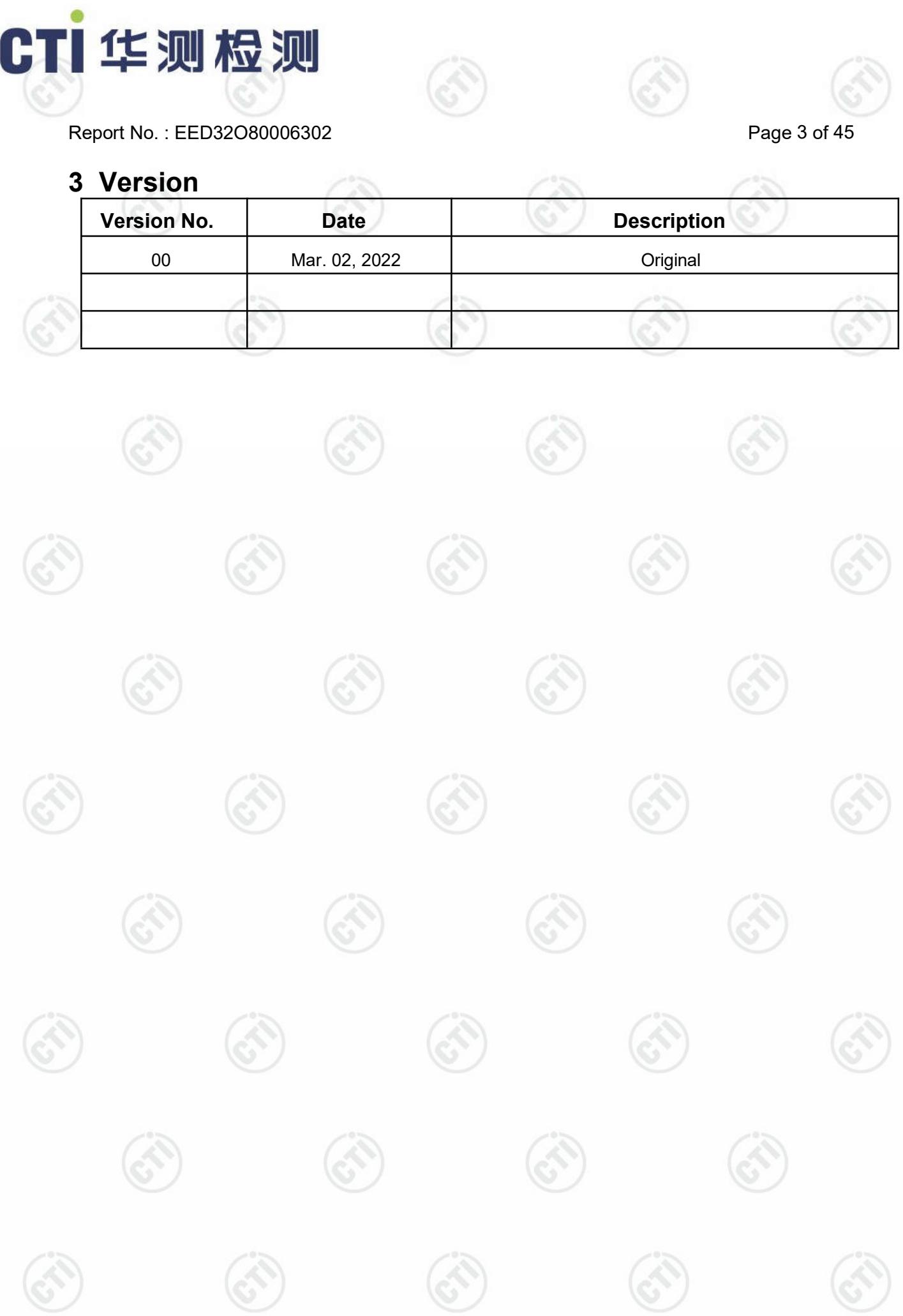


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**3 Version**

Version No.	Date	Description
00	Mar. 02, 2022	Original



## 4 Test Summary

Test Item	Test Requirement	Result
<b>Antenna Requirement</b>	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	PASS
<b>AC Power Line Conducted Emission</b>	47 CFR Part 15 Subpart C Section 15.207	PASS
<b>DTS Bandwidth</b>	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	PASS
<b>Maximum Conducted Output Power</b>	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	PASS
<b>Maximum Power Spectral Density</b>	47 CFR Part 15 Subpart C Section 15.247 (e)	PASS
<b>Band Edge Measurements</b>	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
<b>Conducted Spurious Emissions</b>	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
<b>Radiated Spurious Emission &amp; Restricted bands</b>	47 CFR Part 15 Subpart C Section 15.205/15.209	PASS

## Remark:

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

Model No.: P80S,K7S

Since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance and product model.

## 5 General Information

### 5.1 Client Information

Applicant:	Clevo Innovation INC
Address of Applicant:	2060 N COLLINS BLVD STE 110 RICHARDSON TX 75080
Manufacturer:	Clevo Innovation INC
Address of Manufacturer:	2060 N COLLINS BLVD STE 110 RICHARDSON TX 75080
Factory:	Shenzhen Risun Technology Co.,Ltd
Address of Factory:	Building A, No.6 of Xinmu Road, Xinmu community, Pinghu, Longgang District, Shenzhen, China

### 5.2 General Description of EUT

Product Name:	Sonic Electric Toothbrush	
Model No.:	P80S、K7S	
Trade mark:	N/A	
Product Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location	
Bluetooth Version:	V5.0	
Operation Frequency:	2402MHz~2480MHz	
Modulation Type:	GFSK	
Transfer Rate:	<input checked="" type="checkbox"/> 1Mbps <input checked="" type="checkbox"/> 2Mbps	
Number of Channel:	40	
Antenna Type:	Ceramic Antenna	
Antenna Gain:	2.64dBi	
Power Supply:	Battery:	DC3.7V, 5.18Wh, 1400mAh
Test Voltage:	DC3.7V	
Sample Received Date:	Jan, 27. 2022	
Sample tested Date:	Jan, 27. 2022 to Jan, 28. 2022	

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

**Note:**

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz

### 5.3 Test Configuration

EUT Test Software Settings:				
Software:	sscom5.12			
EUT Power Grade:	Default			
Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.				
Test Mode	Modulation	Rate	Channel	Frequency(MHz)
Mode a	GFSK	1Mbps	CH0	2402
Mode b	GFSK	1Mbps	CH19	2440
Mode c	GFSK	1Mbps	CH39	2480
Mode d	GFSK	2Mbps	CH0	2402
Mode e	GFSK	2Mbps	CH19	2440
Mode f	GFSK	2Mbps	CH39	2480

## 5.4 Test Environment

<b>Operating Environment:</b>	
<b>Radiated Spurious Emissions:</b>	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar
<b>Conducted Emissions:</b>	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar
<b>RF Conducted:</b>	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar

## 5.5 Description of Support Units

The EUT has been tested with associated equipment below.

### 1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Notebook	DELL	DELL 3490	FCC ID and DOC	CTI

## 5.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd  
Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China  
Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385  
No tests were sub-contracted.  
FCC Designation No.: CN1164

**5.7 Measurement Uncertainty (95% confidence levels, k=2)**

No.	Item	Measurement Uncertainty
1	Radio Frequency	$7.9 \times 10^{-8}$
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-18GHz)
3	Radiated Spurious emission test	3.3dB (9kHz-30MHz)
		4.3dB (30MHz-1GHz)
		4.5dB (1GHz-18GHz)
		3.4dB (18GHz-40GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%

## 6 Equipment List

Conducted disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Receiver	R&S	ESCI	100435	04-15-2021	04-14-2022
Temperature/Humidity Indicator	Defu	TH128	---	---	---
LISN	R&S	ENV216	100098	03-04-2021	03-03-2022
Barometer	changchun	DYM3	1188	---	---

RF test system					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-24-2021	12-23-2022
Signal Generator	Keysight	N5182B	MY53051549	12-24-2021	12-23-2022
Temperature/Humidity Indicator	biaozhi	HM10	1804186	06-23-2021	06-22-2022
High-pass filter	Sinoscite	FL3CX03WG18 NM12-0398-002	---	---	---
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	---	---	---
DC Power	Keysight	E3642A	MY56376072	12-24-2021	12-23-2022
PC-1	Lenovo	R4960d	---	---	---
Power unit	R&S	OSP120	101374	12-24-2021	12-23-2022
RF control unit	JS Tonscend	JS0806-2	158060006	12-24-2021	12-23-2022
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	---	---	---

3M Semi/full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	05-24-2019	05-23-2022
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9136-401	10-17-2021	10-16-2022
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-15-2021	04-14-2024
Receiver	R&S	ESCI7	100009	04-15-2021	04-14-2022
Multi device Controller	maturo	NCD/070/10711 112	---	---	---
Temperature/Humidity Indicator	Shanghai qixiang	HM10	1804298	06-24-2021	06-23-2022
Cable line	Fulai(7M)	SF106	5219/6A	---	---
Cable line	Fulai(6M)	SF106	5220/6A	---	---
Cable line	Fulai(3M)	SF106	5216/6A	---	---
Cable line	Fulai(3M)	SF106	5217/6A	---	---

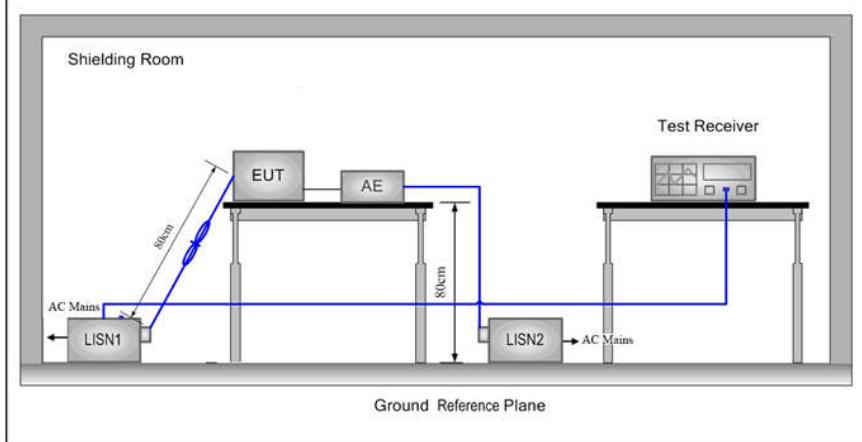
3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	---	---
Receiver	Keysight	N9038A	MY57290136	03-04-2021	03-03-2022
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-04-2021	03-03-2022
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-04-2021	03-03-2022
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024
Horn Antenna	ETS-LINDGREN	3117	00057407	07-04-2021	07-03-2024
Preamplifier	EMCI	EMC184055SE	980597	05-20-2021	05-19-2022
Preamplifier	EMCI	EMC001330	980563	04-15-2021	04-14-2022
Preamplifier	JS Tonscend	980380	EMC051845 SE	12-24-2021	12-23-2022
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-16-2021	04-15-2022
Fully Anechoic Chamber	TDK	FAC-3	---	01-09-2021	01-08-2024
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	---	---
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	---	---
Cable line	Times	EMC104-NMNM-1000	SN160710	---	---
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	---	---
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	---	---
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	---	---
Cable line	Times	HF160-KMKM-3.00M	393493-0001	---	---

## 7 Test results and Measurement Data

### 7.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15C Section 15.203 /247(c)
15.203 requirement: 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
<b>EUT Antenna:</b>	Please see Internal photos
The antenna is Ceramic Antenna. The best case gain of the antenna is 2.64dBi.	

## 7.2 Conducted Emissions

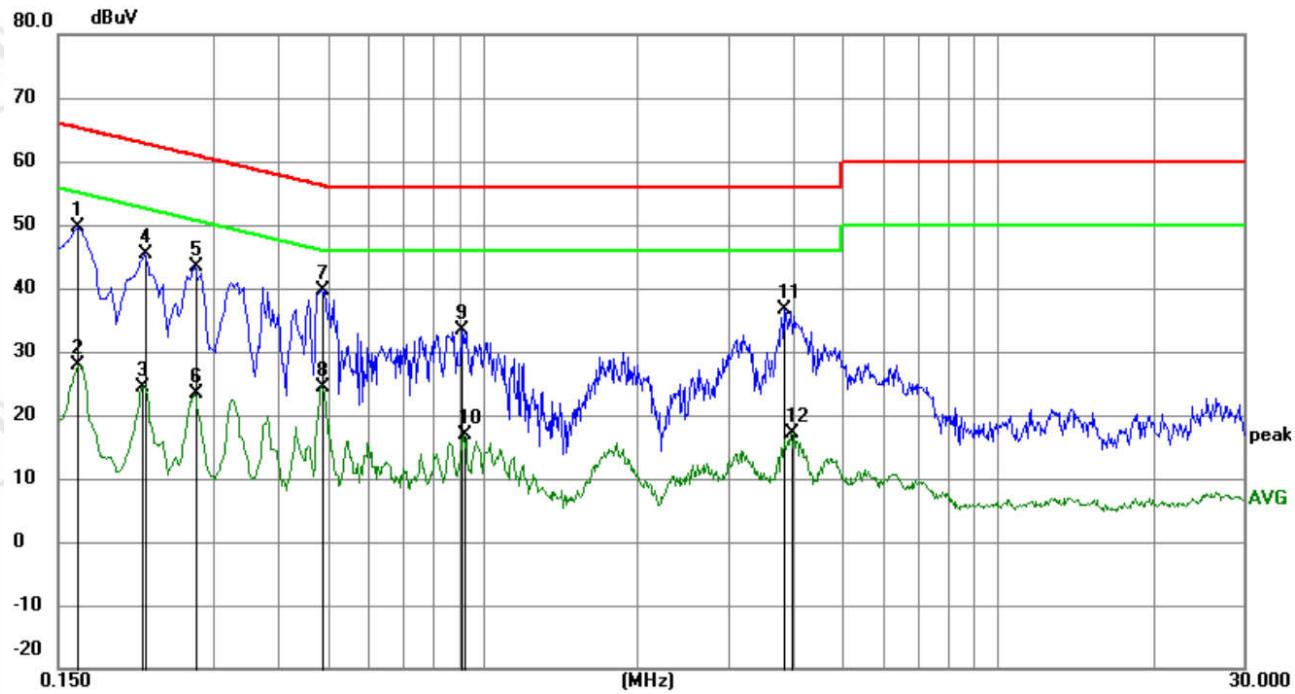
Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto		
Limit:	Frequency range (MHz)		Limit (dBuV)
			Quasi-peak      Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Setup:			
Test Procedure:	<ol style="list-style-type: none"> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a <math>50\Omega/50\mu\text{H} + 5\Omega</math> linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.</li> <li>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> <li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</li> </ol>		
Test Mode:	All modes were tested, only the worst case mode c was recorded in the report.		

Test Results:	Pass
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**Measurement Data**

**Test Mode No.:P80S**

Live line:

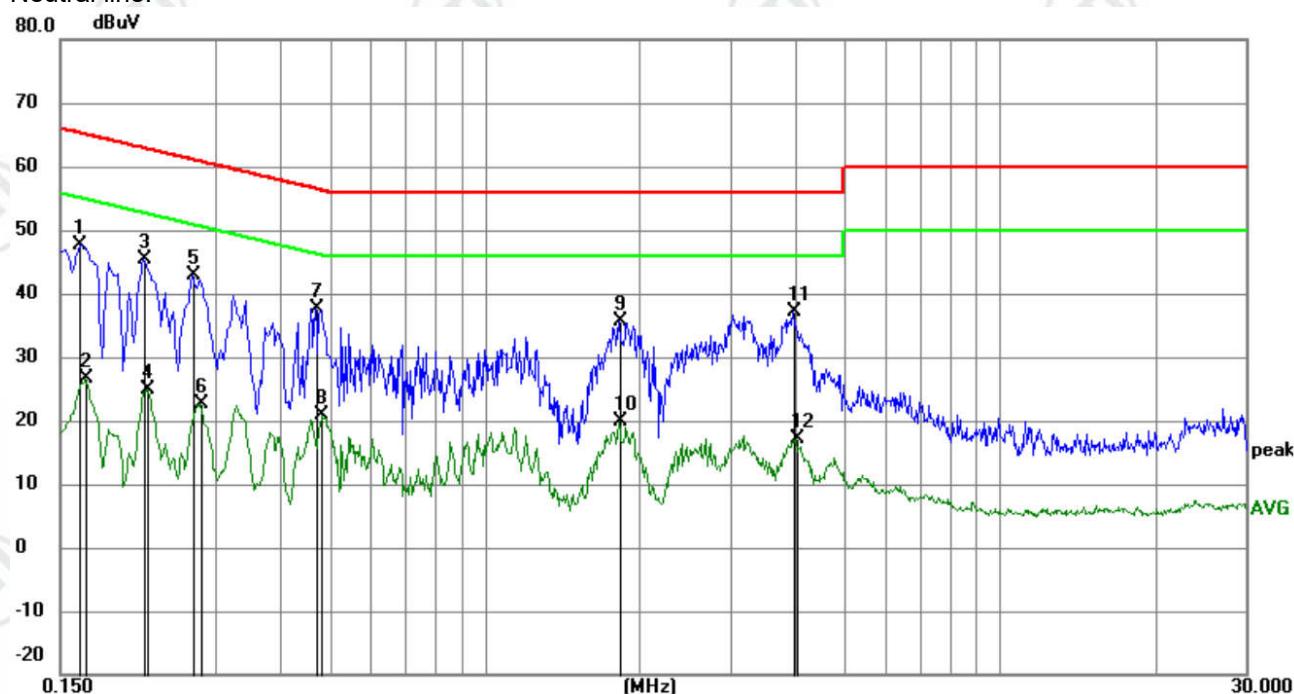


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1635	39.81	9.87	49.68	65.28	-15.60	QP	
2		0.1635	18.05	9.87	27.92	55.28	-27.36	AVG	
3		0.2175	14.55	9.90	24.45	52.91	-28.46	AVG	
4		0.2220	35.57	9.91	45.48	62.74	-17.26	QP	
5		0.2760	33.39	10.02	43.41	60.94	-17.53	QP	
6		0.2760	13.39	10.02	23.41	50.94	-27.53	AVG	
7		0.4875	29.78	9.95	39.73	56.21	-16.48	QP	
8		0.4875	14.55	9.95	24.50	46.21	-21.71	AVG	
9		0.9105	23.45	9.85	33.30	56.00	-22.70	QP	
10		0.9195	7.10	9.85	16.95	46.00	-29.05	AVG	
11		3.8580	26.84	9.78	36.62	56.00	-19.38	QP	
12		3.9840	7.34	9.78	17.12	46.00	-28.88	AVG	

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1635	37.77	9.87	47.64	65.28	-17.64	QP	
2		0.1680	16.73	9.87	26.60	55.06	-28.46	AVG	
3	*	0.2175	35.50	9.90	45.40	62.91	-17.51	QP	
4		0.2220	14.91	9.91	24.82	52.74	-27.92	AVG	
5		0.2714	32.82	10.01	42.83	61.07	-18.24	QP	
6		0.2805	12.59	10.03	22.62	50.80	-28.18	AVG	
7		0.4695	27.75	9.96	37.71	56.52	-18.81	QP	
8		0.4830	11.00	9.95	20.95	46.29	-25.34	AVG	
9		1.8285	25.91	9.80	35.71	56.00	-20.29	QP	
10		1.8285	10.04	9.80	19.84	46.00	-26.16	AVG	
11		3.9750	27.32	9.78	37.10	56.00	-18.90	QP	
12		4.0335	7.30	9.78	17.08	46.00	-28.92	AVG	

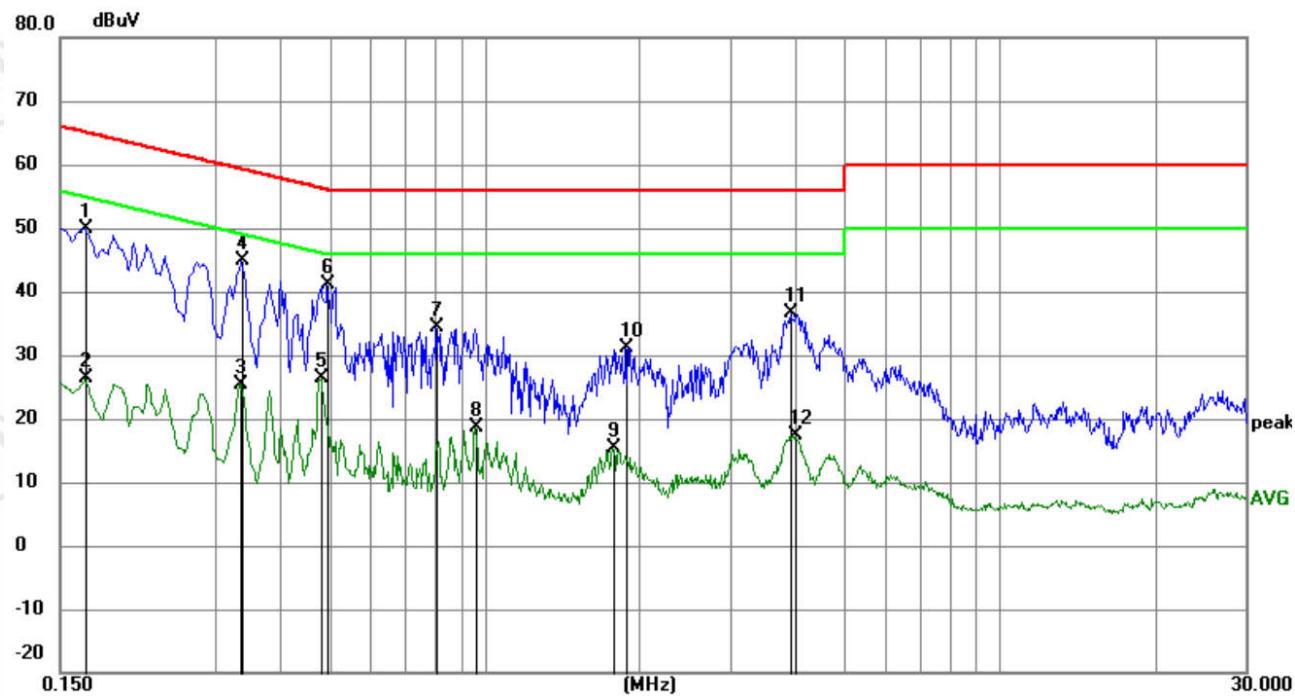
Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

**Measurement Data**

**Test Mode No.:K7S**

Live line:



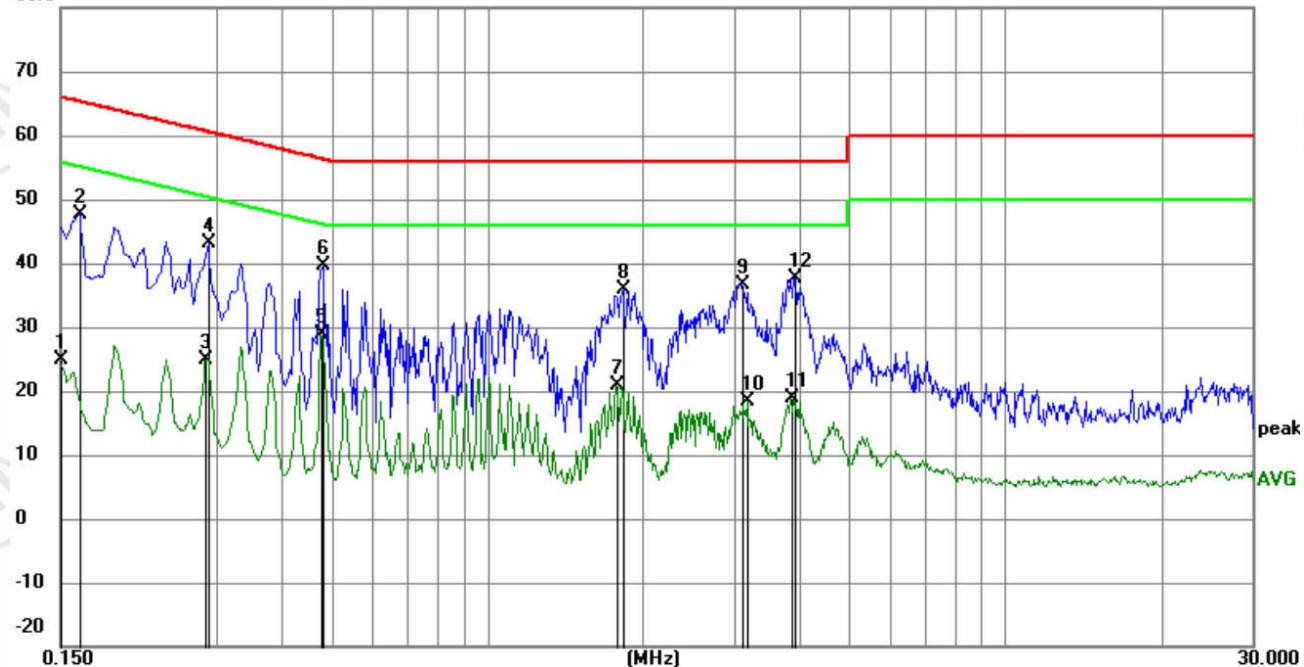
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1680	40.06	9.87	49.93	65.06	-15.13	QP	
2		0.1680	16.47	9.87	26.34	55.06	-28.72	AVG	
3		0.3345	15.46	10.04	25.50	49.34	-23.84	AVG	
4	*	0.3390	34.84	10.03	44.87	59.23	-14.36	QP	
5		0.4830	16.38	9.95	26.33	46.29	-19.96	AVG	
6		0.4965	31.13	9.95	41.08	56.06	-14.98	QP	
7		0.8070	24.42	9.85	34.27	56.00	-21.73	QP	
8		0.9600	8.70	9.84	18.54	46.00	-27.46	AVG	
9		1.7745	5.48	9.80	15.28	46.00	-30.72	AVG	
10		1.8780	21.30	9.79	31.09	56.00	-24.91	QP	
11		3.9390	26.75	9.78	36.53	56.00	-19.47	QP	
12		4.0109	7.71	9.78	17.49	46.00	-28.51	AVG	

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral line:

80.0 dBuV

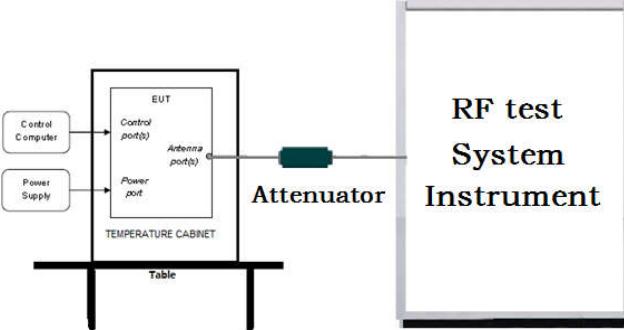


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	14.93	9.87	24.80	56.00	-31.20	AVG	
2		0.1635	37.84	9.87	47.71	65.28	-17.57	QP	
3		0.2850	14.82	10.04	24.86	50.67	-25.81	AVG	
4		0.2895	33.00	10.05	43.05	60.54	-17.49	QP	
5		0.4785	18.82	9.95	28.77	46.37	-17.60	AVG	
6	*	0.4830	29.76	9.95	39.71	56.29	-16.58	QP	
7		1.7790	11.02	9.80	20.82	46.00	-25.18	AVG	
8		1.8330	26.08	9.80	35.88	56.00	-20.12	QP	
9		3.0930	26.96	9.79	36.75	56.00	-19.25	QP	
10		3.1829	8.48	9.79	18.27	46.00	-27.73	AVG	
11		3.8625	8.98	9.78	18.76	46.00	-27.24	AVG	
12		3.9120	27.96	9.78	37.74	56.00	-18.26	QP	

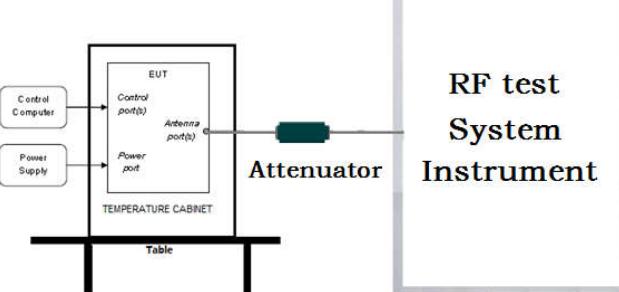
Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

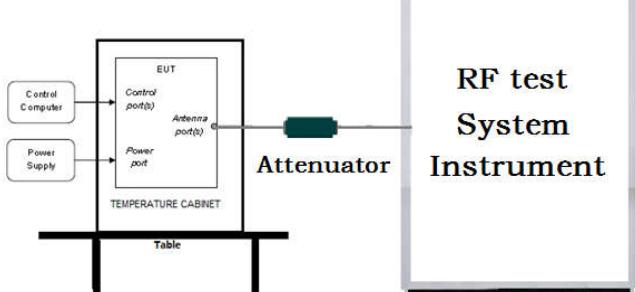
### 7.3 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 2013
Test Setup:	 <p>Remark: Offset=Cable loss+ attenuation factor.</p>
Test Procedure:	<ol style="list-style-type: none"> <li>Set the RBW <math>\geq</math> DTS bandwidth.</li> <li>Set VBW <math>\geq 3 \times</math> RBW.</li> <li>Set span <math>\geq 3 \times</math> RBW</li> <li>Sweep time = auto couple.</li> <li>Detector = peak.</li> <li>Trace mode = max hold.</li> <li>Allow trace to fully stabilize.</li> <li>Use peak marker function to determine the peak amplitude level.</li> </ol>
Limit:	30dBm
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix A

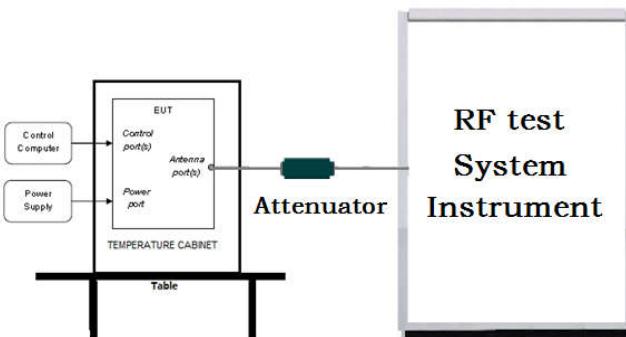
## 7.4 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10 2013
Test Setup:	 <p>Remark: Offset=Cable loss+ attenuation factor.</p>
Test Procedure:	<ol style="list-style-type: none"> <li>Set RBW = 100 kHz.</li> <li>Set the VBW <math>\geq [3 \times \text{RBW}]</math>.</li> <li>Detector = peak.</li> <li>Trace mode = max hold.</li> <li>Sweep = auto couple.</li> <li>Allow the trace to stabilize.</li> <li>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.</li> </ol>
Limit:	$\geq 500$ kHz
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix A

## 7.5 Maximum Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 2013
Test Setup:	 <p>Remark: Offset=Cable loss+ attenuation factor.</p>
Test Procedure:	<ol style="list-style-type: none"> <li>Set analyzer center frequency to DTS channel center frequency.</li> <li>Set the span to 1.5 times the DTS bandwidth.</li> <li>Set the RBW to <math>3 \text{ kHz} &lt; \text{RBW} &lt; 100 \text{ kHz}</math>.</li> <li>Set the VBW <math>&gt; [3 \times \text{RBW}]</math>.</li> <li>Detector = peak.</li> <li>Sweep time = auto couple.</li> <li>Trace mode = max hold.</li> <li>Allow trace to fully stabilize.</li> <li>Use the peak marker function to determine the maximum amplitude level within the RBW.</li> <li>If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.</li> </ol>
Limit:	$\leq 8.00 \text{ dBm}/3\text{kHz}$
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix A

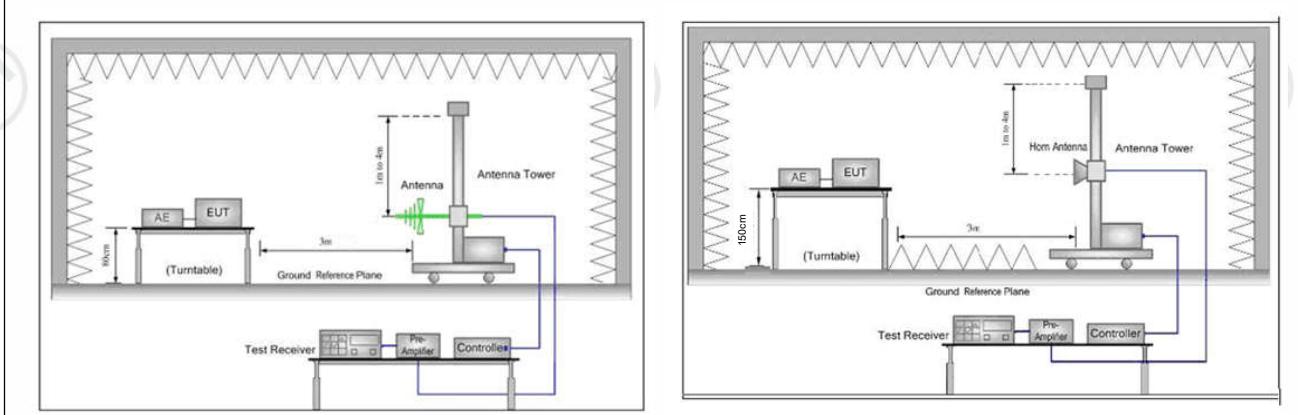
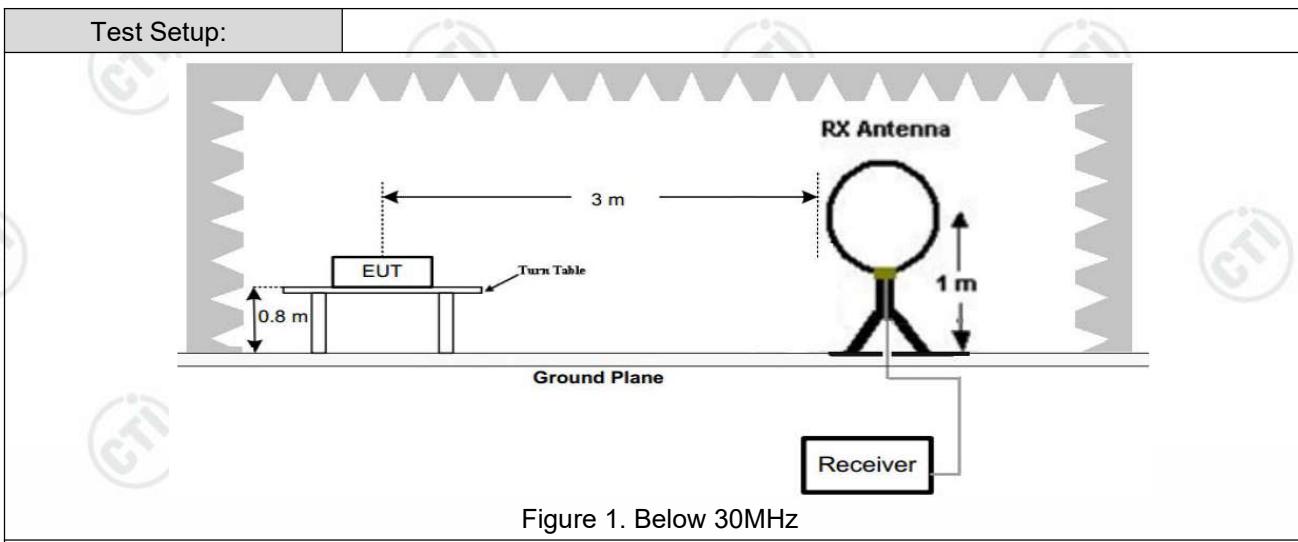
## 7.6 Band Edge measurements and Conducted Spurious Emission

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	 <p>Remark: Offset=Cable loss+ attenuation factor.</p>
Test Procedure:	<ul style="list-style-type: none"> <li>a) Set RBW =100KHz.</li> <li>b) Set VBW = 300KHz.</li> <li>c) Sweep time = auto couple.</li> <li>d) Detector = peak.</li> <li>e) Trace mode = max hold.</li> <li>f) Allow trace to fully stabilize.</li> <li>g) Use peak marker function to determine the peak amplitude level.</li> </ul>
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix A

## 7.7 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 2013				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10kHz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.



<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.                      2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.                      Note: For the radiated emission test above 1GHz:                      Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.</li> <li>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both</li> </ol>
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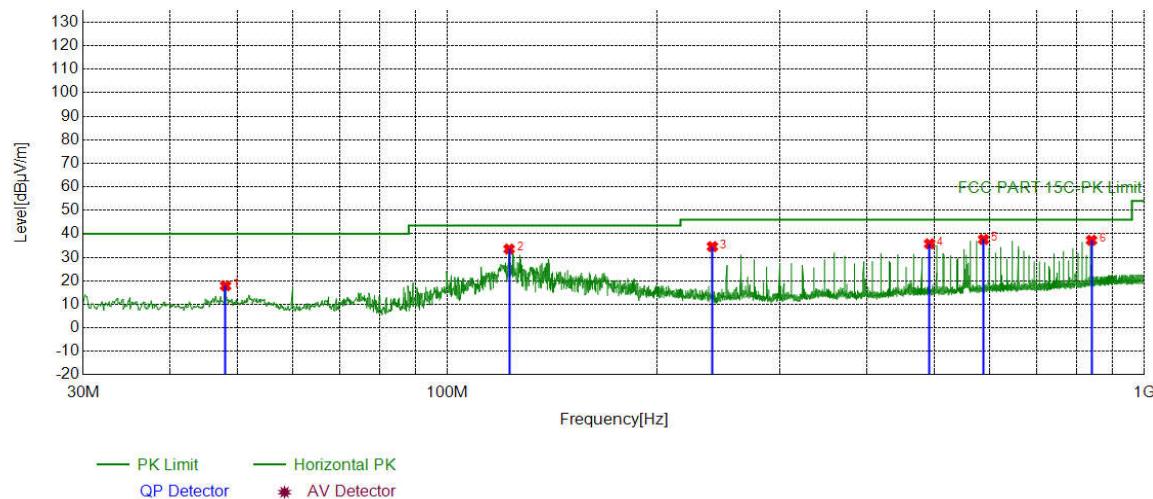
	<p>horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p>
Test Mode:	Refer to clause 5.3
Test Results:	Pass

### Radiated Spurious Emission below 1GHz:

During the test, the Radiated Emission from 30MHz to 1GHz was performed in all modes, only the worst case mode c was recorded in the report.

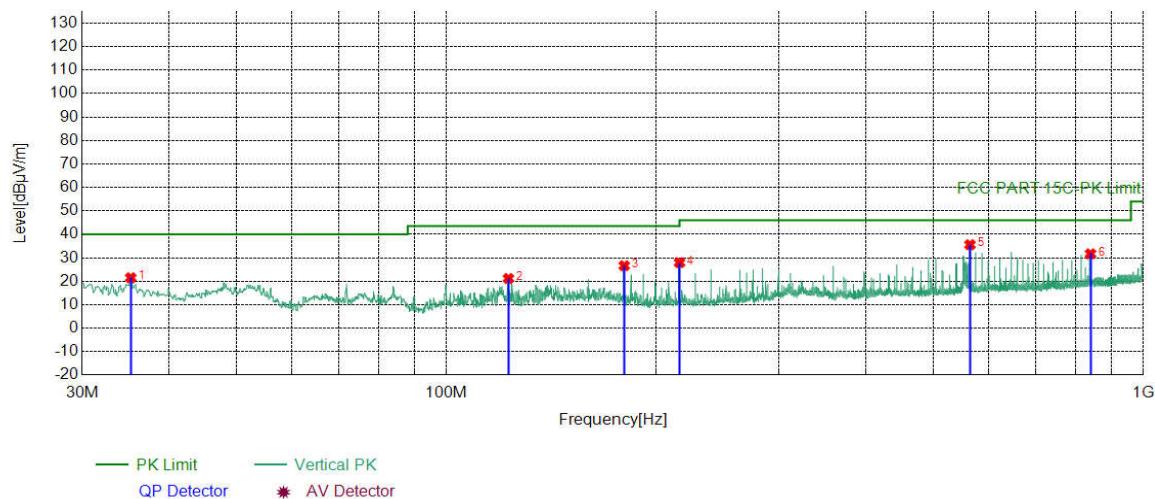
**Test Mode No.:P80S**

**Test Graph**



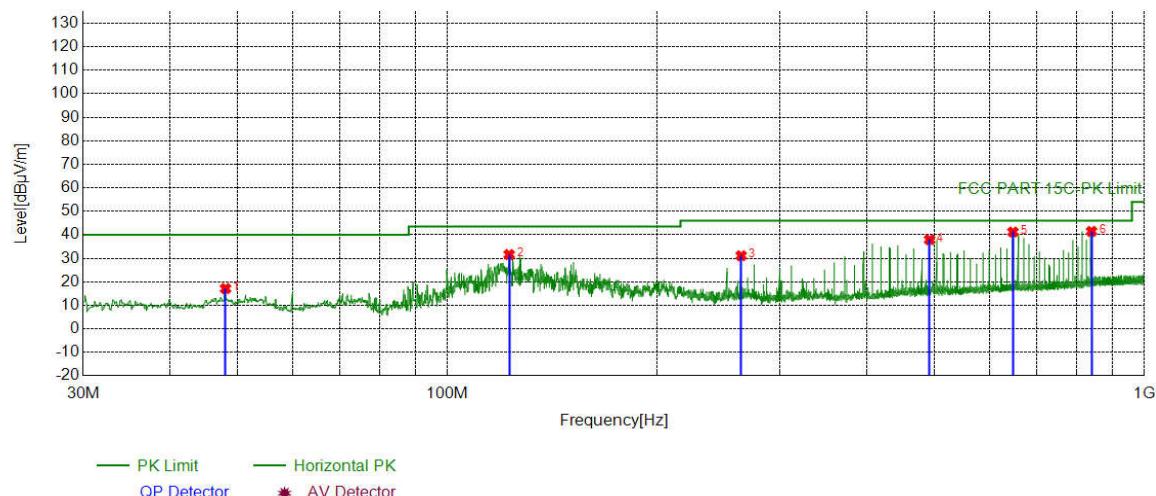
Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	48.0438	-17.21	35.07	17.86	40.00	22.14	PASS	Horizontal	PK
2	122.6443	-20.50	54.01	33.51	43.50	9.99	PASS	Horizontal	PK
3	240.0260	-16.79	51.35	34.56	46.00	11.44	PASS	Horizontal	PK
4	492.0572	-11.02	46.76	35.74	46.00	10.26	PASS	Horizontal	PK
5	588.0968	-8.92	46.50	37.58	46.00	8.42	PASS	Horizontal	PK
6	840.1280	-5.83	43.09	37.26	46.00	8.74	PASS	Horizontal	PK

## Test Graph



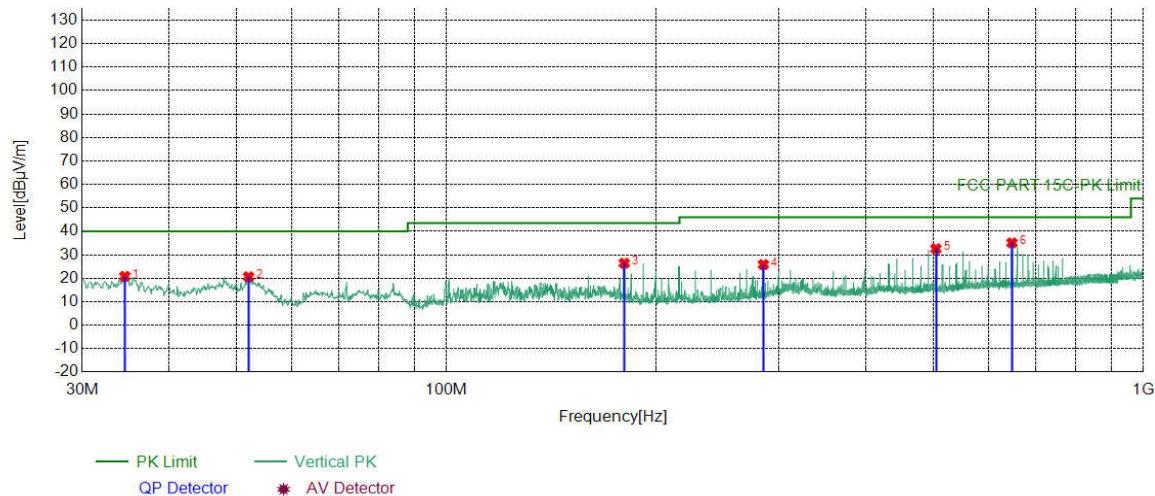
## Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Result	Polarity	Remark
1	35.2385	-19.57	41.06	21.49	40.00	18.51	PASS	Vertical	PK
2	122.7413	-20.51	41.69	21.18	43.50	22.32	PASS	Vertical	PK
3	179.9770	-19.83	46.45	26.62	43.50	16.88	PASS	Vertical	PK
4	216.0646	-17.44	45.39	27.95	46.00	18.05	PASS	Vertical	PK
5	564.0384	-9.44	45.01	35.57	46.00	10.43	PASS	Vertical	PK
6	840.1280	-5.83	37.52	31.69	46.00	14.31	PASS	Vertical	PK

**Test Mode No.:K7S**
**Test Graph**


Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Result	Polarity	Remark
1	48.0438	-17.21	34.35	17.14	40.00	22.86	PASS	Horizontal	PK
2	122.6443	-20.50	52.10	31.60	43.50	11.90	PASS	Horizontal	PK
3	263.9874	-16.28	47.38	31.10	46.00	14.90	PASS	Horizontal	PK
4	492.0572	-11.02	48.95	37.93	46.00	8.07	PASS	Horizontal	PK
5	648.0488	-8.25	49.46	41.21	46.00	4.79	PASS	Horizontal	PK
6	840.1280	-5.83	47.28	41.45	46.00	4.55	PASS	Horizontal	PK

## Test Graph



## Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Result	Polarity	Remark
1	34.5595	-19.66	40.48	20.82	40.00	19.18	PASS	Vertical	PK
2	52.0212	-17.48	38.11	20.63	40.00	19.37	PASS	Vertical	PK
3	179.9770	-19.83	46.25	26.42	43.50	17.08	PASS	Vertical	PK
4	285.0385	-15.82	41.65	25.83	46.00	20.17	PASS	Vertical	PK
5	504.0864	-10.77	43.35	32.58	46.00	13.42	PASS	Vertical	PK
6	648.0488	-8.25	43.35	35.10	46.00	10.90	PASS	Vertical	PK

**Radiated Spurious Emission above 1GHz:**
**Test Mode No.:P80S**

Mode:			GFSK			Channel:		2402 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Result	Polarity	Remark
1	1176.6177	0.81	42.50	43.31	74.00	30.69	PASS	H	PK
2	1883.4883	3.91	41.33	45.24	74.00	28.76	PASS	H	PK
3	4804.1203	-16.23	64.18	47.95	74.00	26.05	PASS	H	PK
4	7206.2804	-11.83	59.24	47.41	74.00	26.59	PASS	H	PK
5	9608.4406	-7.37	51.16	43.79	74.00	30.21	PASS	H	PK
6	14327.7552	0.02	49.38	49.40	74.00	24.60	PASS	H	PK
7	1103.4103	0.85	42.53	43.38	74.00	30.62	PASS	V	PK
8	1957.6958	4.33	40.45	44.78	74.00	29.22	PASS	V	PK
9	4804.1203	-16.23	61.76	45.53	74.00	28.47	PASS	V	PK
10	7206.2804	-11.83	59.55	47.72	74.00	26.28	PASS	V	PK
11	9200.4134	-7.88	51.53	43.65	74.00	30.35	PASS	V	PK
12	12293.6196	-5.68	51.94	46.26	74.00	27.74	PASS	V	PK

Mode:			GFSK			Channel:		2440 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Result	Polarity	Remark
1	1311.6312	1.10	41.40	42.50	74.00	31.50	PASS	H	PK
2	1834.4834	3.54	40.77	44.31	74.00	29.69	PASS	H	PK
3	4880.1253	-16.21	67.16	50.95	74.00	23.05	PASS	H	PK
4	7320.2880	-11.65	62.23	50.58	74.00	23.42	PASS	H	PK
5	9759.4506	-7.51	56.84	49.33	74.00	24.67	PASS	H	PK
6	16273.8849	1.51	49.36	50.87	74.00	23.13	PASS	H	PK
7	1395.6396	1.38	41.78	43.16	74.00	30.84	PASS	V	PK
8	1840.8841	3.59	40.68	44.27	74.00	29.73	PASS	V	PK
9	4879.1253	-16.21	64.82	48.61	74.00	25.39	PASS	V	PK
10	7319.2880	-11.66	61.20	49.54	74.00	24.46	PASS	V	PK
11	9758.4506	-7.52	56.66	49.14	74.00	24.86	PASS	V	PK
12	14245.7497	-0.74	50.26	49.52	74.00	24.48	PASS	V	PK

Mode:			GFSK Transmitting			Channel:		2480 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Result	Polarity	Remark
1	1396.6397	1.38	41.48	42.86	74.00	31.14	PASS	H	PK
2	2101.7102	4.86	40.31	45.17	74.00	28.83	PASS	H	PK
3	4959.1306	-15.98	68.37	52.39	74.00	21.61	PASS	H	PK
4	7440.2960	-11.34	64.01	52.67	74.00	21.33	PASS	H	PK
5	9920.4614	-7.10	59.42	52.32	74.00	21.68	PASS	H	PK
6	16271.8848	1.49	49.81	51.30	74.00	22.70	PASS	H	PK
7	1396.8397	1.38	41.55	42.93	74.00	31.07	PASS	V	PK
8	1995.0995	4.52	42.28	46.80	74.00	27.20	PASS	V	PK
9	4960.1307	-15.97	65.30	49.33	74.00	24.67	PASS	V	PK
10	7439.2960	-11.34	63.16	51.82	74.00	22.18	PASS	V	PK
11	9920.4614	-7.10	59.60	52.50	74.00	21.50	PASS	V	PK
12	14302.7535	-0.39	50.15	49.76	74.00	24.24	PASS	V	PK

**Test Mode No.:K7S**

Mode:			GFSK			Channel:		2402 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Result	Polarity	Remark
1	1283.8284	1.02	41.65	42.67	74.00	31.33	PASS	H	PK
2	1955.8956	4.32	40.83	45.15	74.00	28.85	PASS	H	PK
3	4803.1202	-16.23	66.91	50.68	74.00	23.32	PASS	H	PK
4	7206.2804	-11.83	58.93	47.10	74.00	26.90	PASS	H	PK
5	9579.4386	-7.53	51.78	44.25	74.00	29.75	PASS	H	PK
6	13714.7143	-1.75	50.67	48.92	74.00	25.08	PASS	H	PK
7	1253.4253	0.94	41.83	42.77	74.00	31.23	PASS	V	PK
8	2032.3032	4.66	41.03	45.69	74.00	28.31	PASS	V	PK
9	4804.1203	-16.23	67.79	51.56	74.00	22.44	PASS	V	PK
10	5760.1840	-13.71	58.02	44.31	74.00	29.69	PASS	V	PK
11	7205.2804	-11.83	60.74	48.91	74.00	25.09	PASS	V	PK
12	10779.5186	-6.28	51.21	44.93	74.00	29.07	PASS	V	PK

Mode:			GFSK			Channel:		2440 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Result	Polarity	Remark
1	1299.0299	1.06	41.88	42.94	74.00	31.06	PASS	H	PK
2	1689.8690	2.87	40.79	43.66	74.00	30.34	PASS	H	PK
3	4880.1253	-16.21	67.36	51.15	74.00	22.85	PASS	H	PK
4	7320.2880	-11.65	58.79	47.14	74.00	26.86	PASS	H	PK
5	9759.4506	-7.51	54.06	46.55	74.00	27.45	PASS	H	PK
6	1191.0191	0.80	42.25	43.05	74.00	30.95	PASS	H	PK
7	1777.2777	3.20	40.77	43.97	74.00	30.03	PASS	V	PK
8	4879.1253	-16.21	71.16	54.95	74.00	19.05	PASS	V	PK
9	4881.1254	-16.21	65.08	48.87	54.00	5.13	PASS	V	PK
10	7320.2880	-11.65	60.58	48.93	74.00	25.07	PASS	V	PK
11	9760.4507	-7.51	53.29	45.78	74.00	28.22	PASS	V	PK
12	12391.6261	-4.78	51.95	47.17	74.00	26.83	PASS	V	PK

Mode:			GFSK Transmitting			Channel:		2480 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Result	Polarity	Remark
1	1192.6193	0.80	41.90	42.70	74.00	31.30	PASS	H	PK
2	1748.4748	3.10	41.19	44.29	74.00	29.71	PASS	H	PK
3	4960.1307	-15.97	67.52	51.55	74.00	22.45	PASS	H	PK
4	7439.2960	-11.34	62.40	51.06	74.00	22.94	PASS	H	PK
5	9920.4614	-7.10	54.64	47.54	74.00	26.46	PASS	H	PK
6	13682.7122	-1.75	50.80	49.05	74.00	24.95	PASS	H	PK
7	1367.6368	1.28	42.11	43.39	74.00	30.61	PASS	V	PK
8	1823.6824	3.46	40.43	43.89	74.00	30.11	PASS	V	PK
9	4960.1307	-15.97	71.97	56.00	74.00	18.00	PASS	V	PK
10	4961.1307	-15.97	63.86	47.89	54.00	6.11	PASS	V	PK
11	7439.2960	-11.34	63.51	52.17	74.00	21.83	PASS	V	PK
12	9919.4613	-7.10	55.39	48.29	74.00	25.71	PASS	V	PK

**Remark:**

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
 Final Test Level = Receiver Reading + Factor  
 Factor = Antenna Factor + Cable Factor - Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.
- 3) During the test, the Radiates Emission above 1GHz was performed in all modes, only the worst case Transfer Rate of 1Mbps was recorded in the report.

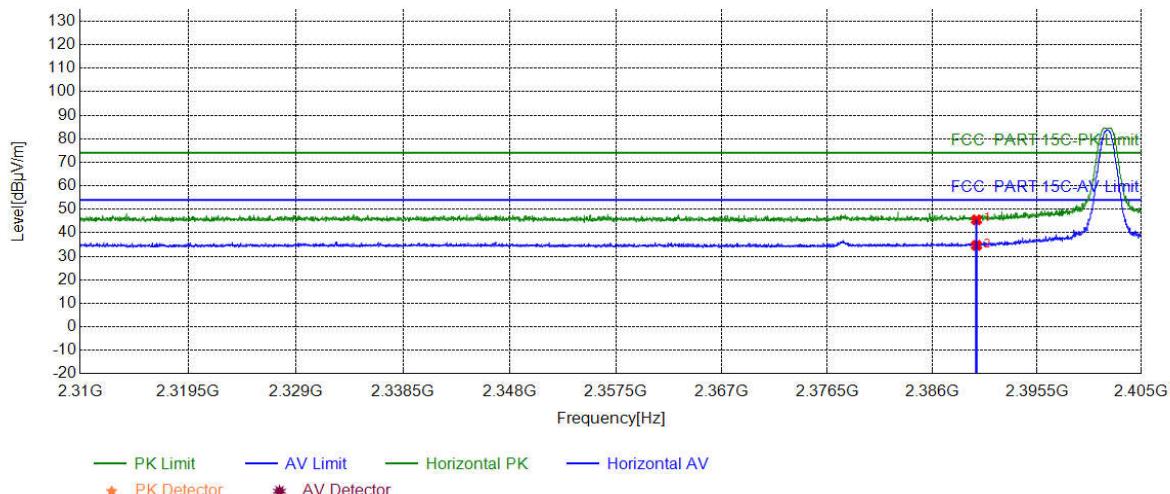
## Restricted bands:

## Test Mode No.:P80S

Test plot as follows:

Mode:	BLE GFSK Transmitting	Channel:	2402 MHz
Remark:			

## Test Graph

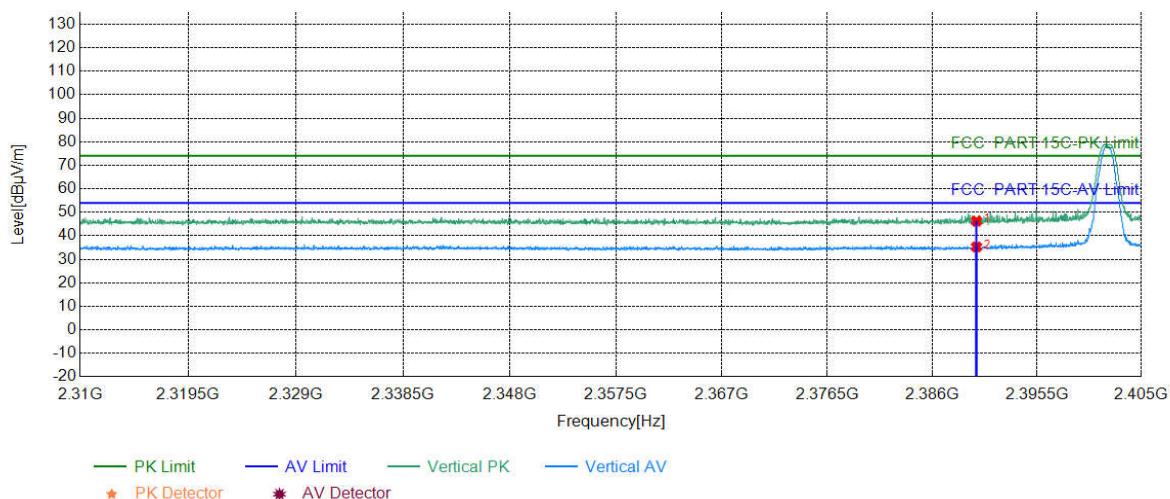


## Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	39.74	45.51	74.00	28.49	PASS	Horizontal	PK
2	2390.0000	5.77	28.86	34.63	54.00	19.37	PASS	Horizontal	AV

Mode:	BLE GFSK Transmitting	Channel:	2402 MHz
Remark:			

### Test Graph

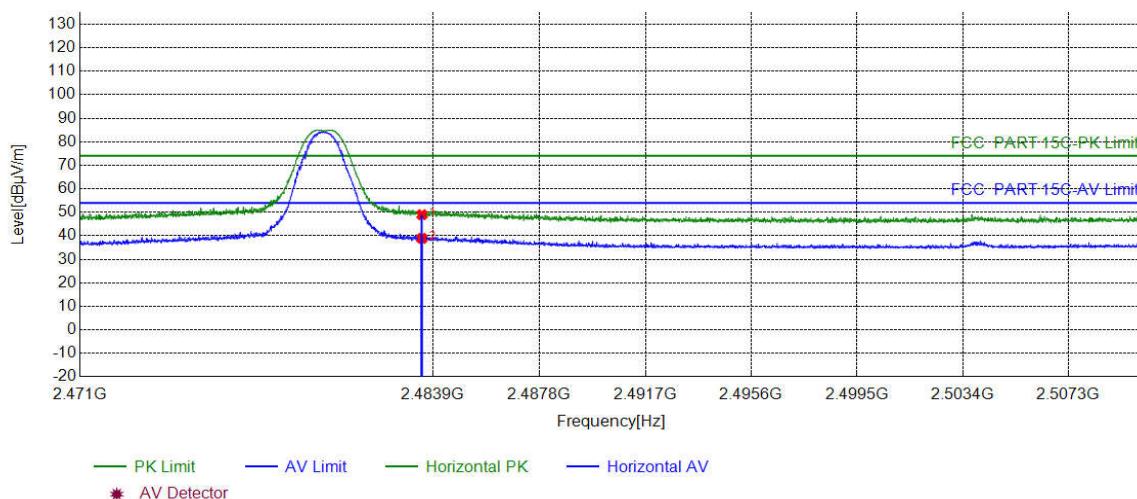


### Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	40.47	46.24	74.00	27.76	PASS	Vertical	PK
2	2390.0000	5.77	29.50	35.27	54.00	18.73	PASS	Vertical	AV

Mode:	BLE GFSK Transmitting	Channel:	2480 MHz
Remark:			

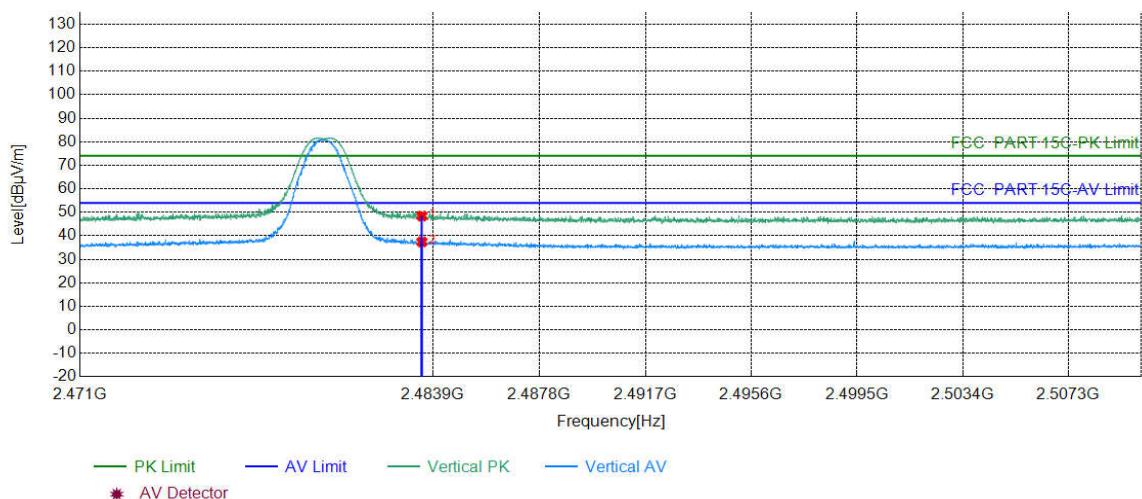
### Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	42.42	48.99	74.00	25.01	PASS	Horizontal	PK
2	2483.5000	6.57	32.35	38.92	54.00	15.08	PASS	Horizontal	AV

Mode:	BLE GFSK Transmitting	Channel:	2480 MHz
Remark:			

### Test Graph



### Suspected List

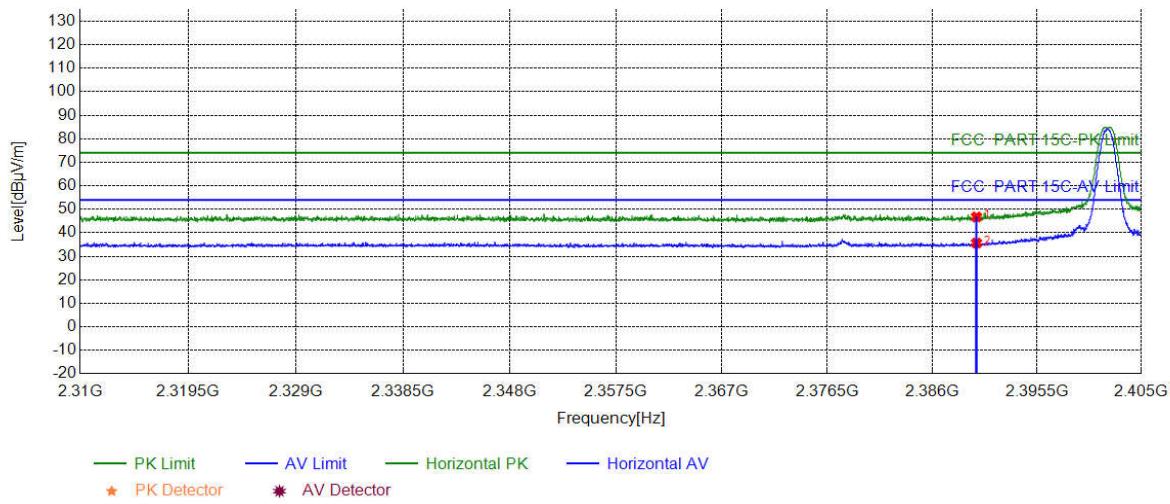
NO	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	41.83	48.40	74.00	25.60	PASS	Vertical	PK
2	2483.5000	6.57	30.83	37.40	54.00	16.60	PASS	Vertical	AV

## Test Mode No.:K7S

Test plot as follows:

Mode:	BLE GFSK Transmitting	Channel:	2402 MHz
Remark:			

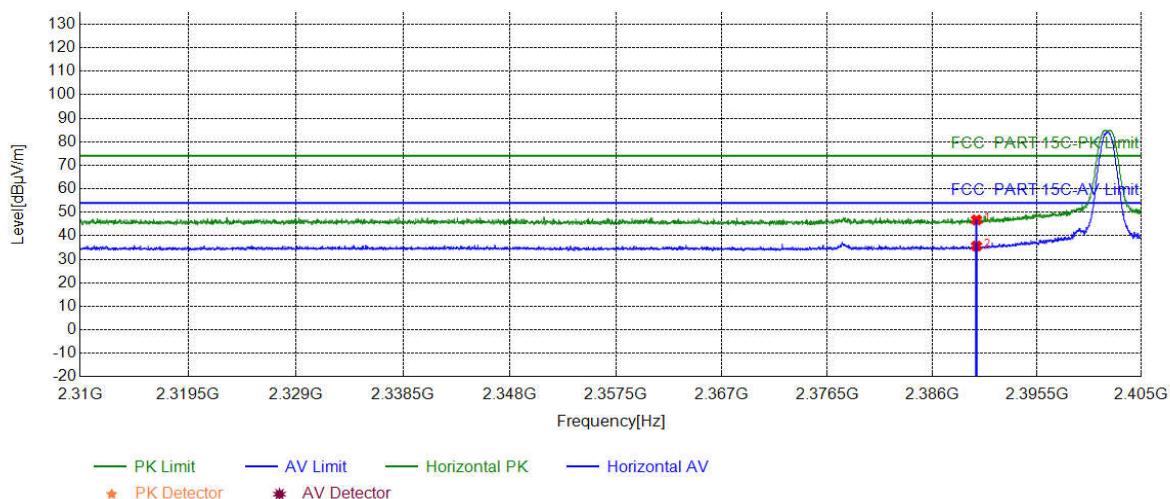
### Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	40.97	46.74	74.00	27.26	PASS	Horizontal	PK
2	2390.0000	5.77	29.86	35.63	54.00	18.37	PASS	Horizontal	AV

Mode:	BLE GFSK Transmitting	Channel:	2402 MHz
Remark:			

### Test Graph

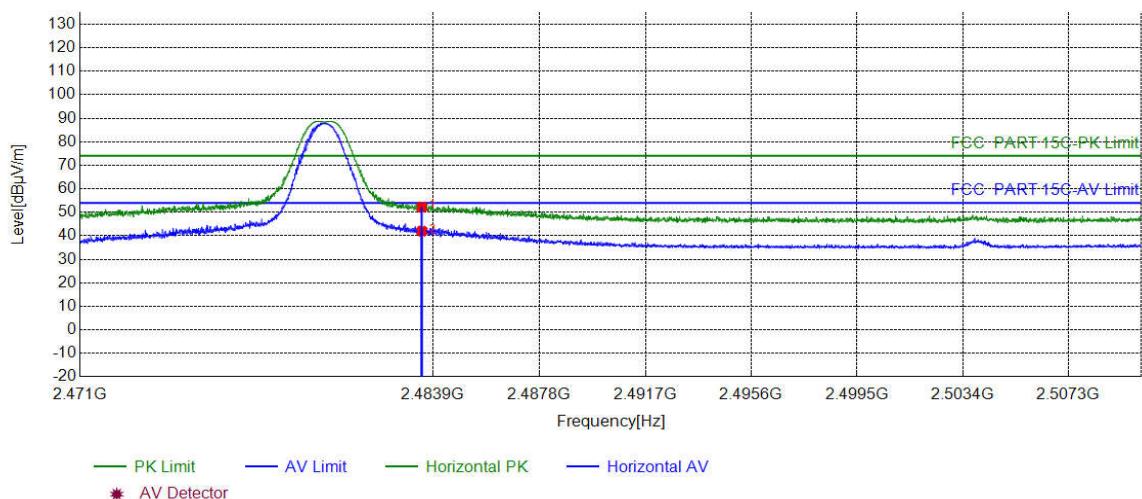


### Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	42.85	48.62	74.00	25.38	PASS	Vertical	PK
2	2390.0000	5.77	29.48	35.25	54.00	18.75	PASS	Vertical	AV

Mode:	BLE GFSK Transmitting	Channel:	2480 MHz
Remark:			

### Test Graph

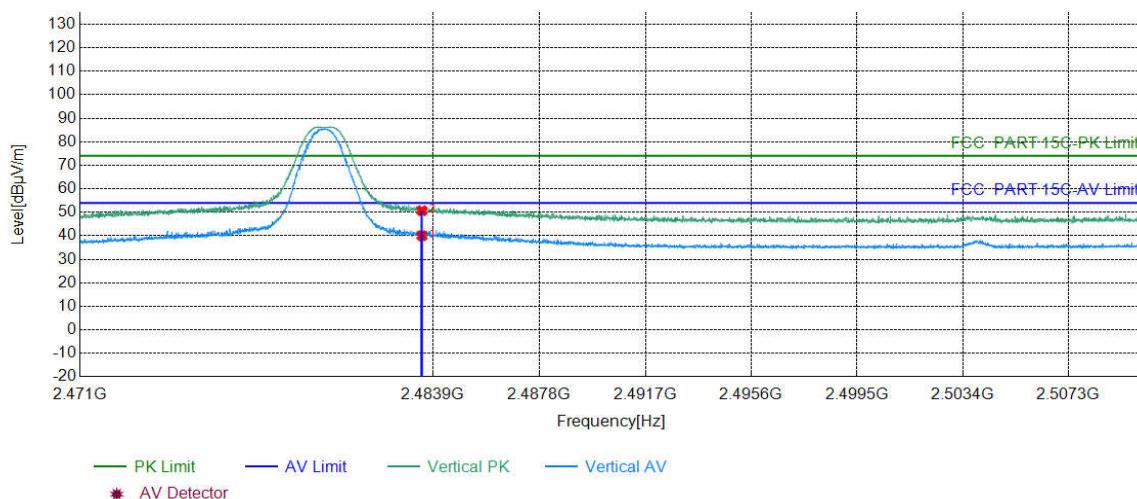


### Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	45.64	52.21	74.00	21.79	PASS	Horizontal	PK
2	2483.5000	6.57	35.41	41.98	54.00	12.02	PASS	Horizontal	AV

Mode:	BLE GFSK Transmitting	Channel:	2480 MHz
Remark:			

### Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	33.45	40.02	54.00	13.98	PASS	Vertical	PK
2	2483.5000	6.57	44.13	50.70	74.00	23.30	PASS	Vertical	AV

#### Note:

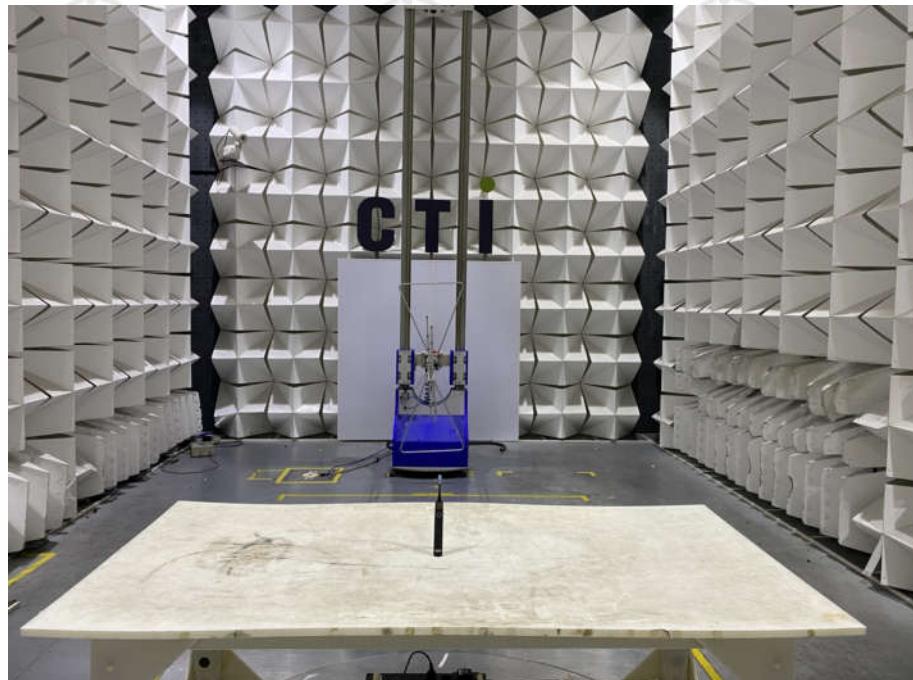
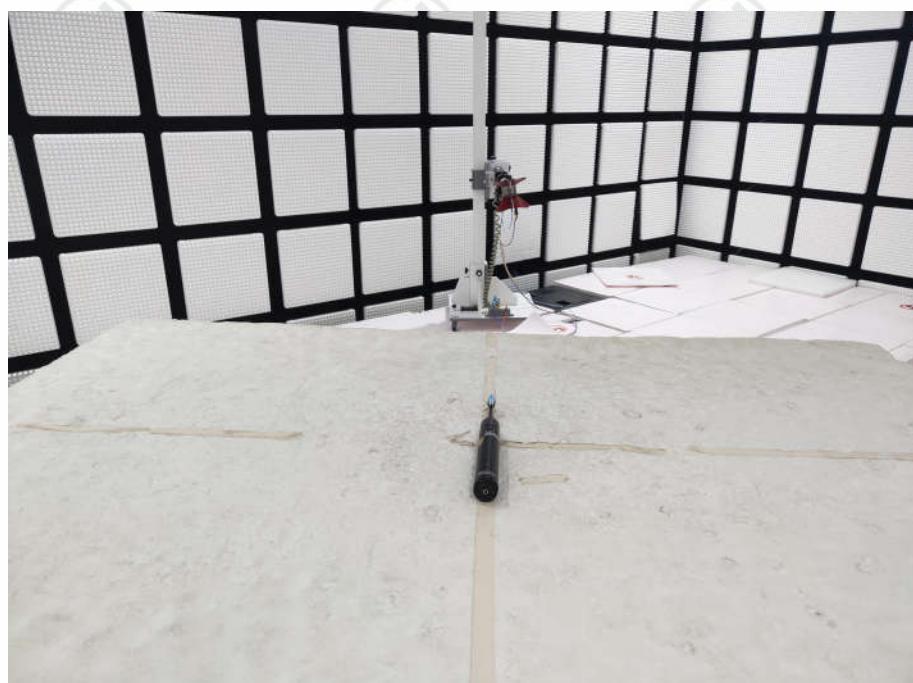
1. The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
2. Final Test Level = Receiver Reading + Factor
3. Factor = Antenna Factor + Cable Factor – Preamplifier Factor
4. During the test, the Radiates Emission above 1GHz was performed in all modes, only the worst case Transfer Rate of 1Mbps was recorded in the report.

## 8 Appendix A

Refer to Appendix: Bluetooth LE of EED32O80006302.

## 9 PHOTOGRAPHS OF TEST SETUP

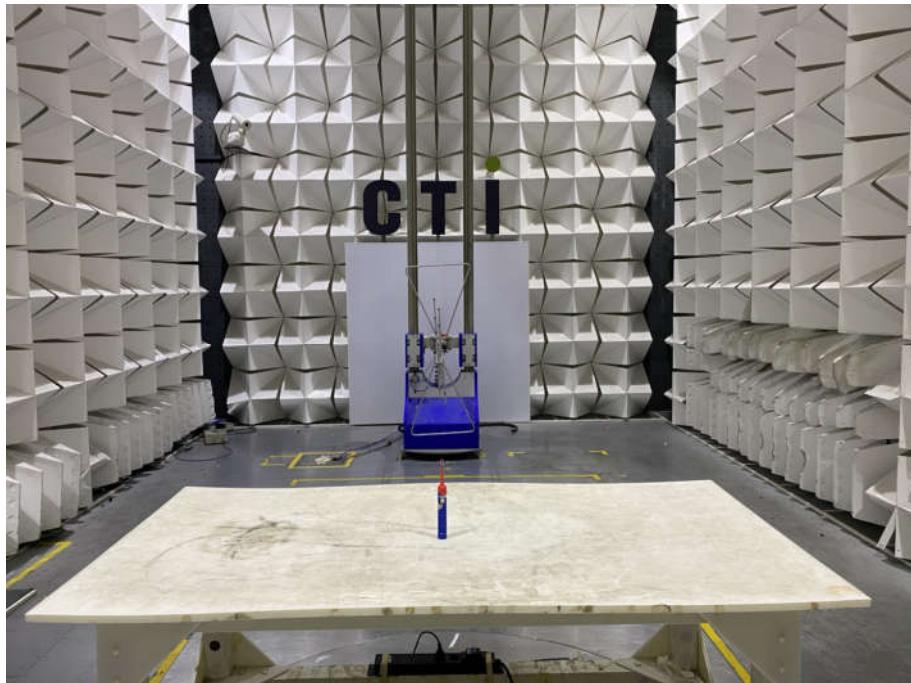
Test model No.:P80S

**Radiated spurious emission Test Setup-1(Below 1GHz)****Radiated spurious emission Test Setup-2(Above 1GHz)**

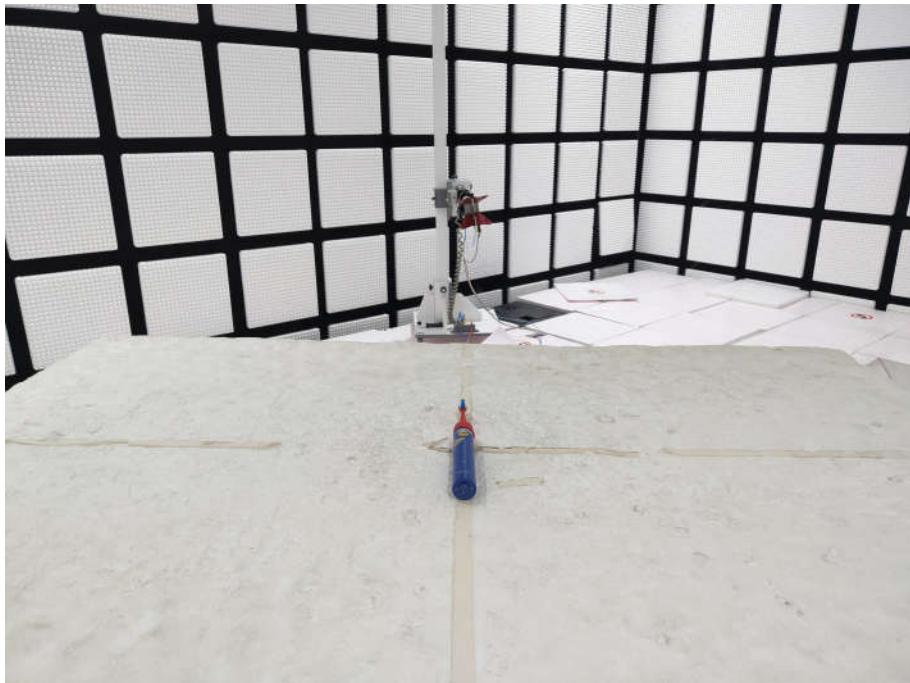


**Conducted Emissions Test Setup**

Test model No.:K7S



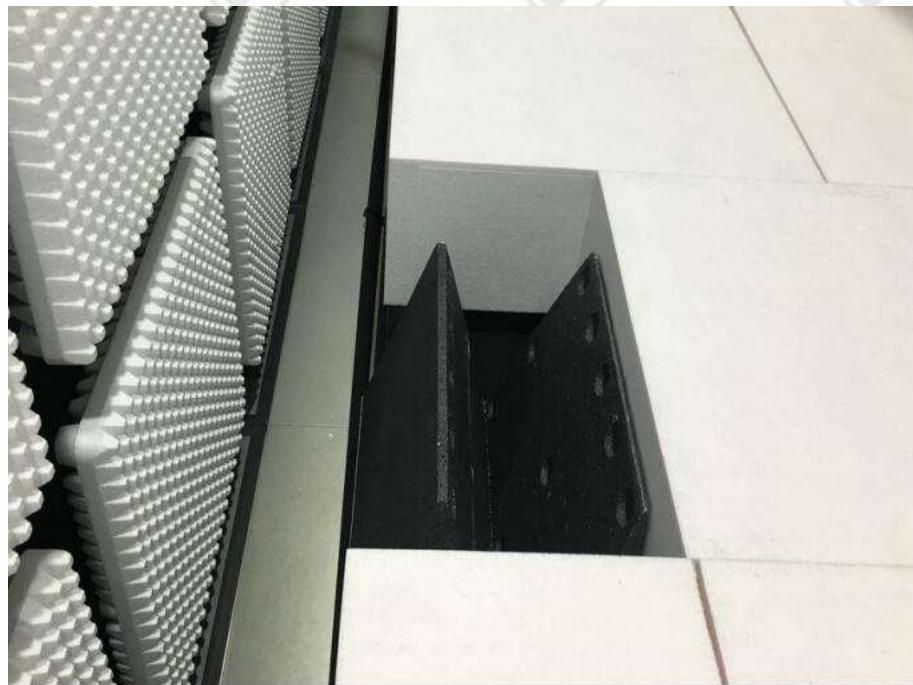
**Radiated spurious emission Test Setup-1(Below 1GHz)**



**Radiated spurious emission Test Setup-2(Above 1GHz)**



**Conducted Emissions Test Setup**



**Radiated spurious emission Test Setup-3(Above 1GHz)**  
**There are absorbing materials under the ground.**

## 10 PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32O80006301 for EUT external and internal photos.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

\*\*\* End of Report \*\*\*