FCC Part 15C
Measurement and Test Report

For

Shenzhen Sabbat Technology Development Co.,Ltd.

FCC ID:

2AN5W-VOOPLAY-100

FCC Rule(s):	FCC Part 15.249
Product Description:	Bluetooth Earphone
Tested Model:	VOOPLAY-100
Report No.:	BSL200714701801RF
Tested Date:	Jul. 27-30, 2020
Issued Date:	Jul. 30, 2020
Tested By:	Cindy Zheng / Engineer
Reviewed By:	Haley Wen / EMC Manager
Approved & Authorized By:	Mike Mo / PSQ Manager
Prepared By:	

BSL Testing Co.,LTD.
No. 24, ZH Park, Nantou Nanshan District,
Shenzhen, Guangdong, China
Tel: 400-882-9628 Fax: 86- 755-26508703

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant:	Shenzhen Sabbat Technology Development Co.,Ltd.
Address of applicant:	Floor two, building second, 201 Industrial Zone South Village community, Bantian street, Longgang District, Shenzhen,China
Manufacturer:	Shenzhen Sabbat Technology Development Co.,Ltd.
Address of manufacturer:	Floor two, building second, 201 Industrial Zone South Village community, Bantian street, Longgang District, Shenzhen,China

General Description of EUT	
Product Name:	Bluetooth Earphone
Trade Name:	SABBAT
Model No.:	VOOPLAY-100
Adding Model(s):	N/A
Rated Voltage:	DC 5V
Battery Capacity:	370mAh
Power Adapter Model:	N/A
Sample ID	BSL2007147018-1#
Test software	EZ-EMC(Ver.EMC-3A1)
Note: The test data is gathered from a production sample, provided by the manufacturer.	

Technical Characteristics of EUT	
Frequency Range:	2402-2480MHz
Max. Field Strength:	87.74dBuV/m@3m
Data Rate:	1Mbps, 2Mbps, 3Mbps
Modulation:	GFSK, Pi/4 QDPSK, 8DPSK
Quantity of Channels:	79
Channel Dec.aration:	1MHz
Antenna Type:	Ceramic antenna
Antenna Gain:	0dBi
Lowest Internal Frequency of EUT:	32MHz

1.2 Test Standards

The following report is prepared on behalf of the Shenzhen Sabbat Technology Development Co.,Ltd. in accordance with FCC Part 15, Subpart B, Subpart C, and section 15.107, 15.203, 15.205, 15.207, 15.209 and 15.249 of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.107,15.203, 15.205, 15.207, 15.209 and 15.249 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which results 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, American National Standard for Testing Unlicensed Wireless Devices, and ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

1.4 Test Facility

BSL Testing Co.,LTD.
NO. 24, ZH Park, Nantou, Shenzhen, 518000 China
Designation Number : CN1217
Test Firm Registration Number: 866035
Tel: 86- 755-26508703
Fax: 86- 755-26508703

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, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	Low Channel	2402MHz
TM2	Middle Channel	2442MHz
TM3	High Channel	2480MHz

Modulation Configure			
Modulation	Packet	Packet Type	Packet Size
GFSK	DH1	4	27
	DH3	11	183
	DH5	15	339
Pi/4 DQPSK	2DH1	20	54
	2DH3	26	367
	2DH5	30	679
8DPSK	3DH1	24	83
	3DH3	27	552
	3DH5	31	1021
Normal mode: the Bluetooth has been tested on the modulation of GFSK, (Pi/4)DQPSK and 8DPSK, compliance test and record the worst case.			

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

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Notebook	TOSHIBA	L700-C53B	/
USB	ESR	S01	19682904994

EUT Exercise Software

The test software: ‘InstallBlueSuiteCda_3_2_0_898’ was used in test. The worst condition (maximum power) was configured by default setting.

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	±0.42dB
Occupied Bandwidth	Conducted	±1.5%
Conducted Spurious Emission	Conducted	±2.17dB
Conducted Emissions	Conducted	±2.88dB
Transmitter Spurious Emissions	Radiated	±5.1dB

1.7 Test Equipment List and Details

Dscription	Manufacturer	Model	Serial No.	Cal Date	Due. Date
Communication Tester	Rohde & Schwarz	CMW500	100358	2019-11-08	2020-11-07
Spectrum Analyzer	R&S	FSP40	100550	2019-10-08	2020-10-07
Test Receiver	R&S	ESCI7	US47140102	2019-10-08	2020-10-07
Signal Generator	HP	83630B	3844A01028	2019-10-08	2020-10-07
Test Receiver	R&S	ESPI-3	100180	2019-10-08	2020-10-07
Amplifier	Agilent	8449B	4035A00116	2019-10-08	2020-10-07
Amplifier	HP	8447E	2945A02770	2019-10-08	2020-10-07
Signal Generator	IFR	2023A	202307/242	2019-10-08	2020-10-07
Broadband Antenna	SCHAFFNER	2774	2774	2019-10-21	2020-10-20
Biconical and log periodic antennas	ELECTRO-METRICS	EM-6917B-1	171	2019-10-21	2020-10-20
Horn Antenna	R&S	HF906	100253	2019-10-21	2020-10-20
Horn Antenna	EM	EM-6961	6462	2019-10-21	2020-10-20
LISN	R&S	ESH3-Z5	100196	2019-10-08	2020-10-07
LISN	COM-POWER	LI-115	02027	2019-10-08	2020-10-07
3m Semi-Anechoic Chamber	Chengyu Electron	9 (L)*6 (W)* 6 (H)	BSL086	2019-10-08	2020-10-07
Horn Antenna	Schwarzbeck	BBHA9170	00814	2019-10-21	2020-10-20
EZ	EMC test software	/	/	/	/

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§ 15.203	Antenna Requirement	PASS
§15.205	Restricted Band of Operation	PASS
§ 15.207(a)	Conducted Emission	PASS
§ 15.209(a)(f)	Radiated Spurious Emissions	PASS
§15.249(a)	Field Strength of Emissions	PASS
§15.249(d)	Out of Band Emission	PASS
§15.215 (c)	Emission Bandwidth	PASS

Note: PASS: applicable, N/A: not applicable.

3. Antenna Requirements

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 Test Result

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

4. Radiated Emissions

4.1 Standard Applicable

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

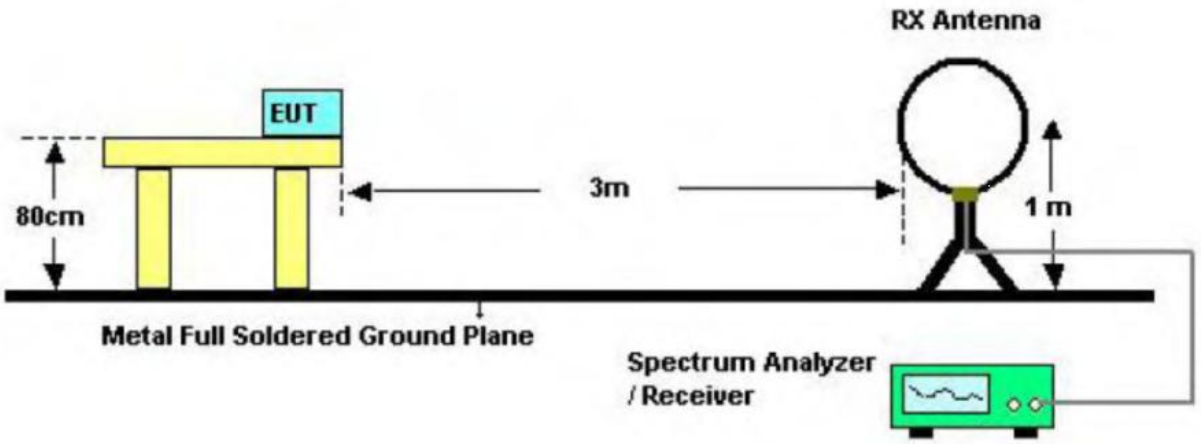
Fundamental Frequency	Field strength of fundamental (milli-volts/meter)	Field strength of Harmonics (micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

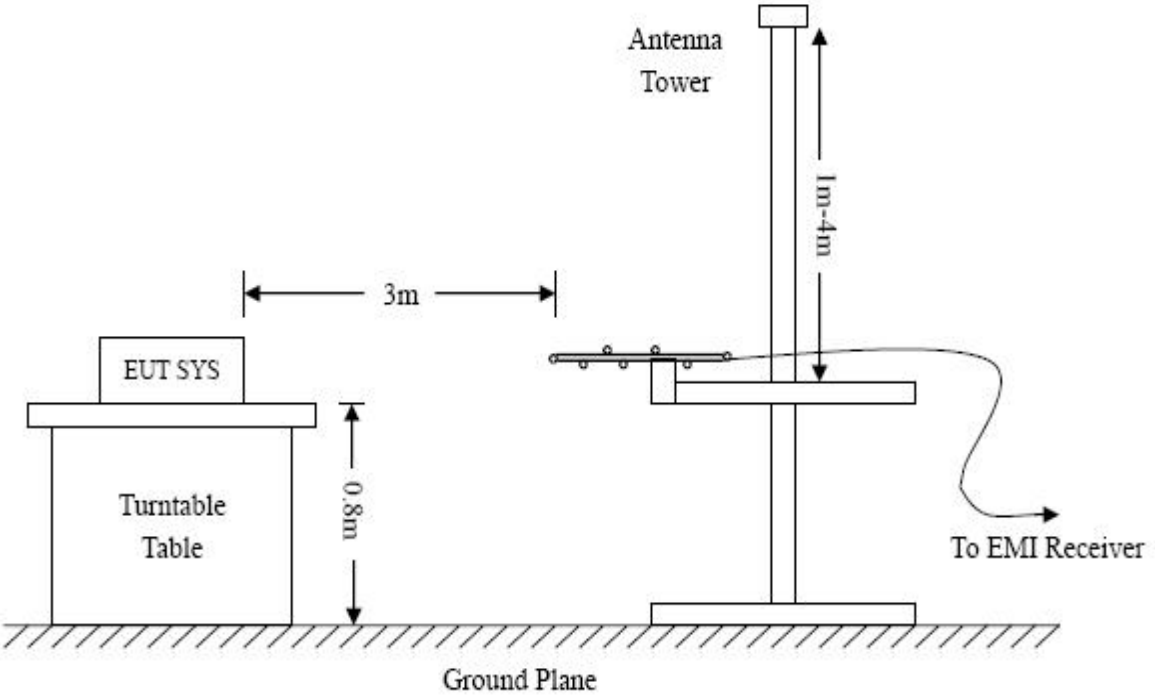
(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

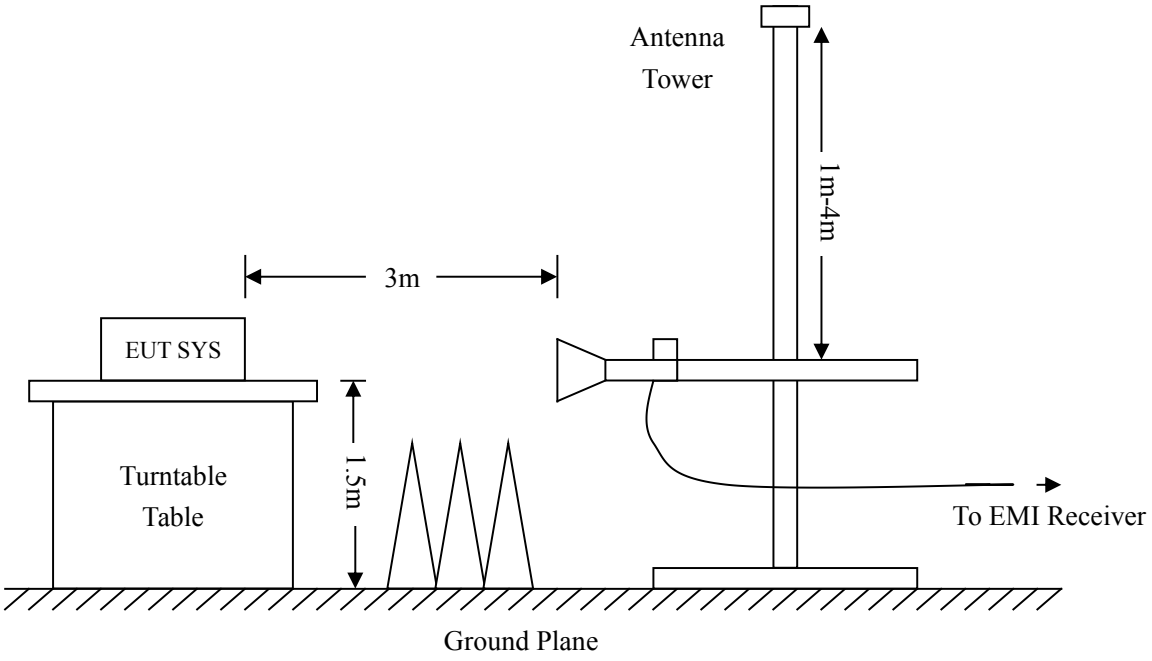
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

4.2 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 15.249(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.







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, QP	Detector function = peak, AV

4.3 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:

Corr. Ampl. = Indicated Reading + Ant. Factor + Cable Loss – Ampl. Gain

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

Margin = Corr. Ampl. – FCC Part 15C Limit

4.4 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	60 %
ATM Pressure:	1012 mbar

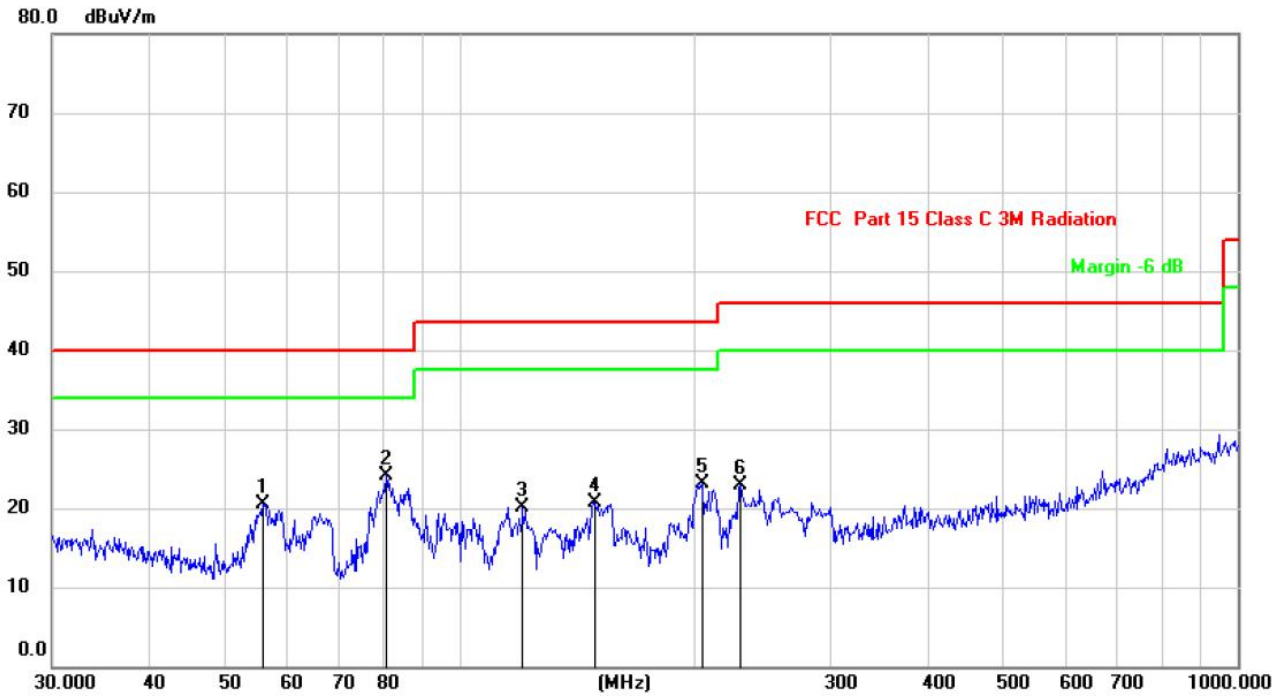
4.5 Summary of Test Results/Plots

According to the data below, the FCC Part 15.205, 15.209 and 15.249 standards, and had the worst cases.

Note:
1. Worst-case radiated emission below 1GHz is GFSK (CH High) mode.
2. Worst-case radiated emission above 1GHz is (Pi/4)DQPSK (CH Low, Middle, High) mode.

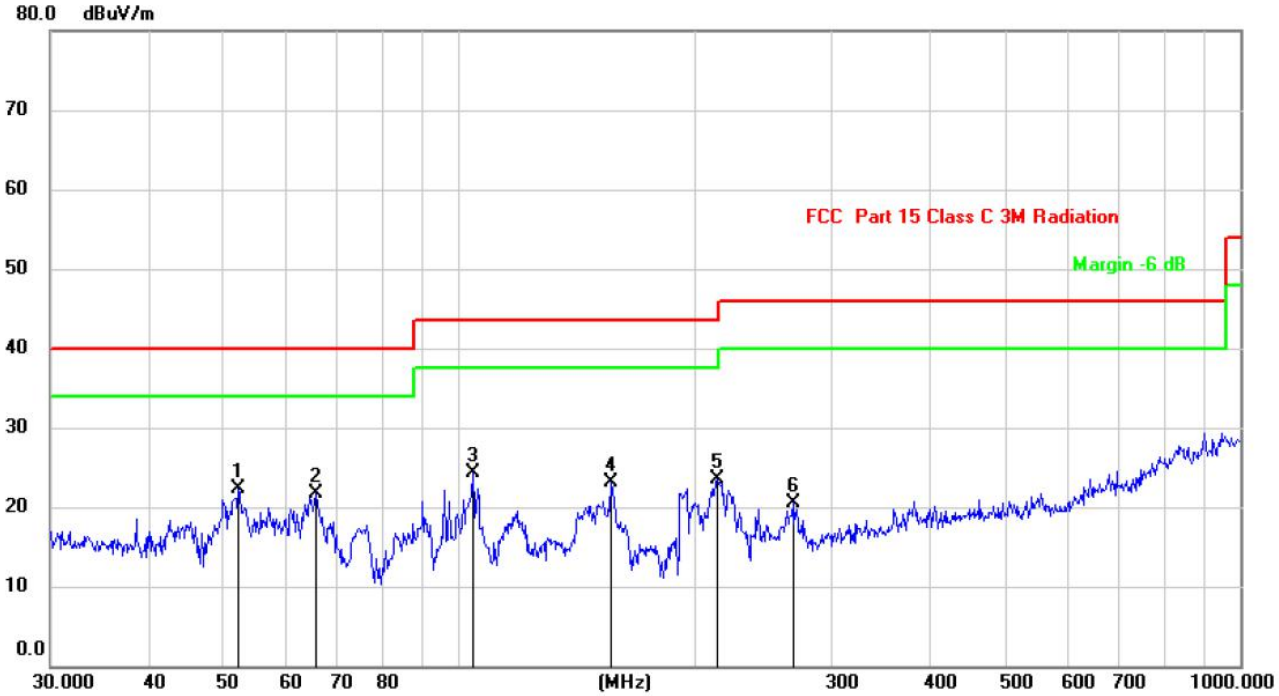
Plot of Radiated Emissions Test Data (30MHz to 1GHz): GFSK (CH High) mode:

Test Specification: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		56.0007	19.65	0.82	20.47	40.00	-19.53	QP	
2	*	80.6440	24.23	-0.03	24.20	40.00	-15.80	QP	
3		120.6991	17.65	2.55	20.20	43.50	-23.30	QP	
4		149.4857	19.46	1.22	20.68	43.50	-22.82	QP	
5		204.9550	21.55	1.50	23.05	43.50	-20.45	QP	
6		230.0985	21.32	1.66	22.98	46.00	-23.02	QP	

Test Specification: *Vertical*



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	52.2079	21.09	1.12	22.21	40.00	-17.79	QP	
2		65.5725	21.61	0.11	21.72	40.00	-18.28	QP	
3		104.1701	23.54	0.76	24.30	43.50	-19.20	QP	
4		156.4576	22.35	0.81	23.16	43.50	-20.34	QP	
5		213.7632	22.02	1.50	23.52	43.50	-19.98	QP	
6		267.5455	17.60	2.93	20.53	46.00	-25.47	QP	

Spurious Emissions Above 1GHz :(Pi/4)DQPSK (CH Low, Middle, High) mode.

Frequency	Rearding Level	Factor	Result	Limit	Margin	Polar	Detector
(MHz)	(dB μ V)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2402MHz							
2402	82.12	5.62	87.74	114	-26.26	H	PK
2402	67.56	5.62	73.18	94	-20.82	H	AV
4804	51.05	4.62	55.67	74	-18.33	H	PK
4804	42.62	4.62	47.24	54	-6.76	H	AV
7206	43.57	3.51	47.08	74	-26.92	H	PK
7206	37.44	3.51	40.95	54	-13.05	H	AV
2402	80.13	5.62	85.75	114	-28.25	V	PK
2402	71.59	5.62	77.21	94	-16.79	V	AV
4804	52.34	4.62	56.96	74	-17.04	V	PK
4804	38.06	4.62	42.68	54	-11.32	V	AV
7206	57.18	3.51	60.69	74	-13.31	V	PK
7206	35.55	3.51	39.06	54	-14.94	V	AV
Middle Channel-2442MHz							
2442	81.31	4.52	85.83	114	-28.17	H	PK
2442	71.25	4.52	75.77	94	-18.23	H	AV
4884	52.36	3.65	56.01	74	-17.99	H	PK
4884	43.78	3.65	47.43	54	-6.57	H	AV
7326	46.08	3.48	49.56	74	-24.44	H	PK
7326	42.57	3.48	46.05	54	-7.95	H	AV
2442	81.06	4.52	85.58	114	-28.42	V	PK
2442	72.57	4.52	77.09	94	-16.91	V	AV
4884	51.28	3.65	54.93	74	-19.07	V	PK
4884	37.46	3.65	41.11	54	-12.89	V	AV
7326	53.17	3.48	56.65	74	-17.35	V	PK
7326	37.53	3.48	41.01	54	-12.99	V	AV

Frequency	Rearding Level	Factor	Result	Limit	Margin	Polar	Detector
(MHz)	(dB μ V)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	H/V	
High Channel-2480MHz							
2480	80.58	3.52	84.10	114	-29.90	H	PK
2480	72.64	3.52	76.16	94	-17.84	H	AV
4960	55.23	2.51	57.74	74	-16.26	H	PK
4960	37.14	2.51	39.65	54	-14.35	H	AV
7440	46.57	3.10	49.67	74	-24.33	H	PK
7440	42.09	3.10	45.19	54	-8.81	H	AV
2480	80.75	3.52	84.27	114	-29.73	V	PK
2480	72.54	3.52	76.06	94	-17.94	V	AV
4960	47.12	2.51	49.63	74	-24.37	V	PK
4960	41.67	2.51	44.18	54	-9.82	V	AV
7440	45.08	3.10	48.18	74	-25.82	V	PK
7440	35.55	3.10	38.65	54	-15.35	V	AV

Note:

1. *Result = Reading + Correct Factor.*
2. *Correct Factor =Ant. Factor + Cable Loss – Ampl. Gain.*

Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 5th Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

The measurements greater than 20dB below the limit from 9kHz to 30MHz..

5. Out of Band Emissions

5.1 Standard Applicable

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

5.2 Test Procedure

As the radiation test, set the Lowest and Highest Transmitting Channel, observed the outside band of 2400MHz to 2483.5MHz, than mark the higher-level emission for comparing with the FCC rules.

5.3 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	60 %
ATM Pressure:	1012 mbar

5.4 Summary of Test Results/Plots

Note: We pre-scan all mode, the worst data is DH1, 2DH1, 3DH1.

Modulation	Frequency	Reading (dBuV)	Factor （dB/m）	Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Result
GFSK	2390.00	43.15	2.36	45.51	74	-28.49	Peak	PASS
	2390.00	32.74	2.36	35.10	54	-18.90	AV	PASS
	2400.00	45.68	3.45	49.13	74	-24.87	Peak	PASS
	2400.00	37.12	3.45	40.57	54	-13.43	AV	PASS
	2483.50	48.05	2.51	50.56	74	-23.44	Peak	PASS
	2483.50	38.60	2.51	41.11	54	-12.89	AV	PASS
	2488.25	48.37	2.76	51.13	74	-22.87	Peak	PASS
	2488.25	37.61	2.76	40.37	54	-13.63	AV	PASS
Pi/4 DQPSK	2390.00	47.24	2.36	49.60	74	-24.40	Peak	PASS
	2390.00	34.19	2.36	36.55	54	-17.45	AV	PASS
	2400.00	48.38	3.45	51.83	74	-22.17	Peak	PASS
	2400.00	35.44	3.45	38.89	54	-15.11	AV	PASS
	2483.50	47.53	2.51	50.04	74	-23.96	Peak	PASS
	2483.50	37.62	2.51	40.13	54	-13.87	AV	PASS
	2486.36	49.17	2.73	51.90	74	-22.10	Peak	PASS
	2486.36	37.05	2.73	39.78	54	-14.22	AV	PASS
8DPSK	2390.00	47.76	2.36	50.12	74	-23.88	Peak	PASS
	2390.00	38.11	2.36	40.47	54	-13.53	AV	PASS
	2400.00	45.51	3.45	48.96	74	-25.04	Peak	PASS
	2400.00	35.62	3.45	39.07	54	-14.93	AV	PASS
	2483.50	48.75	2.51	51.26	74	-22.74	Peak	PASS
	2483.50	38.95	2.51	41.46	54	-12.54	AV	PASS
	2496.42	51.33	2.94	54.27	74	-19.73	Peak	PASS
	2496.42	35.07	2.94	38.01	54	-15.99	AV	PASS

6. Emission Bandwidth

6.1 Standard Applicable

According to 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

6.2 Test Procedure

According to the ANSI 63.10-2013, the emission bandwidth test method as follows.

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
Set span = 3MHz, centered on a transmitting channel
RBW ≥1% 20dB Bandwidth, VBW ≥RBW
Sweep = auto
Detector function = peak
Trace = max hold
All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down and 99% bandwidth of the emission.

6.3 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

6.4 Summary of Test Results/Plots

Worst mode: GFSK (DH1)

Channel	Frequency MHz	20dB Bandwidth kHz
Low Channel	2402	900
Middle Channel	2442	900
High Channel	2480	900

Worst mode: Pi/4 QDPSK (2DH1)

Channel	Frequency MHz	20dB Bandwidth kHz
Low Channel	2402	1128
Middle Channel	2442	1128
High Channel	2480	1128

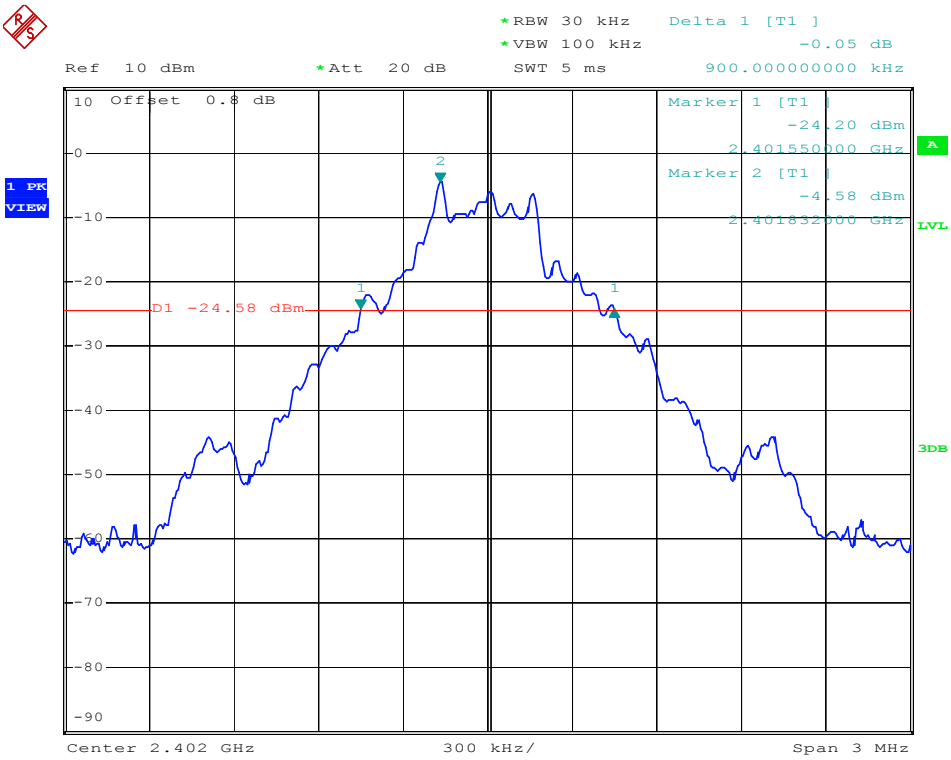
Worst mode: 8DPSK (3DH1)

Channel	Frequency MHz	20dB Bandwidth kHz
Low Channel	2402	1164
Middle Channel	2442	1158
High Channel	2480	1164

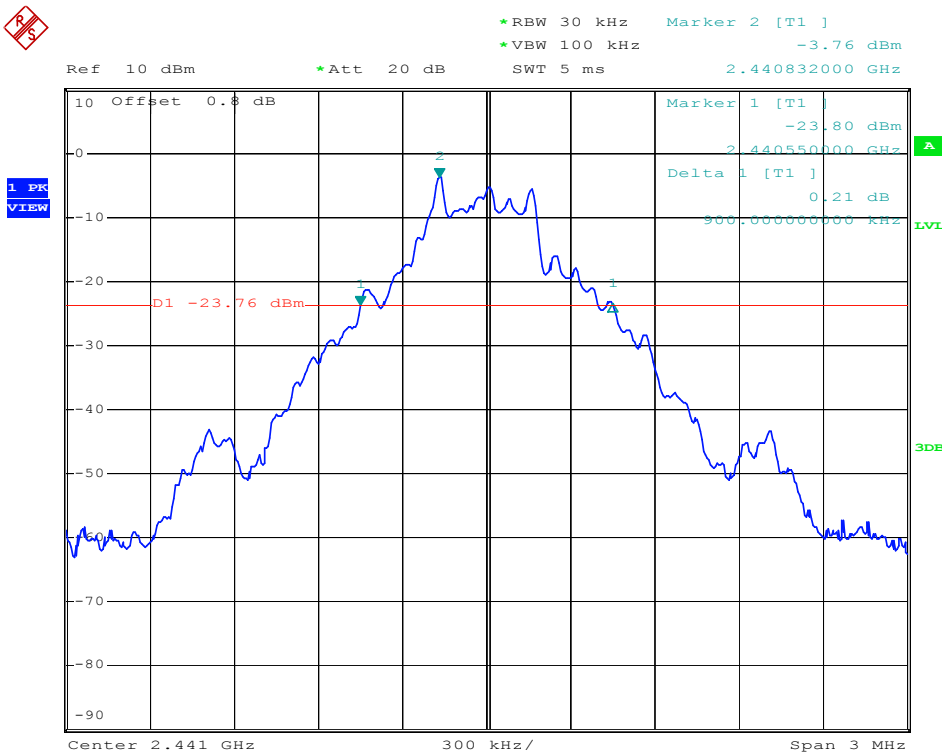
Please refer to the following test plots

Worst mode: GFSK (DH1)

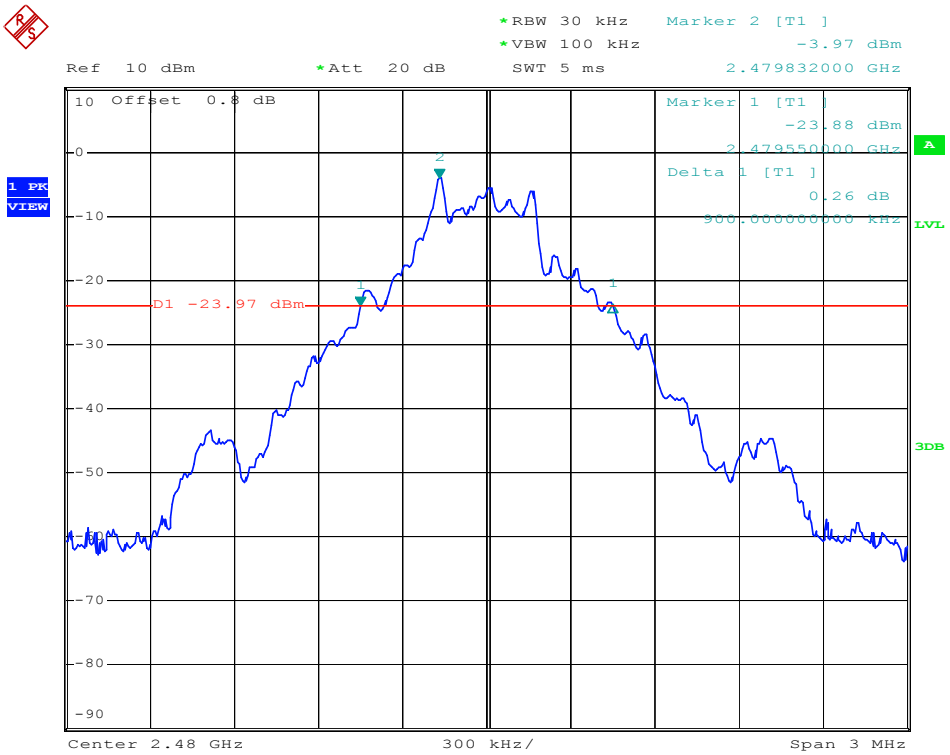
Low Channel:



Middle Channel:

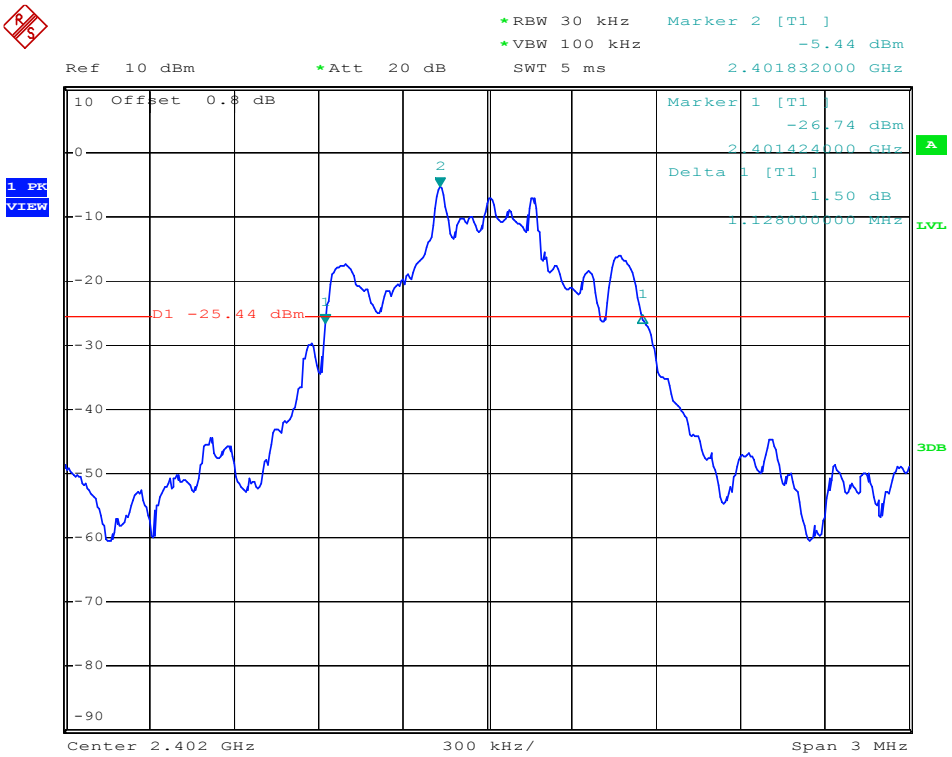


High Channel:

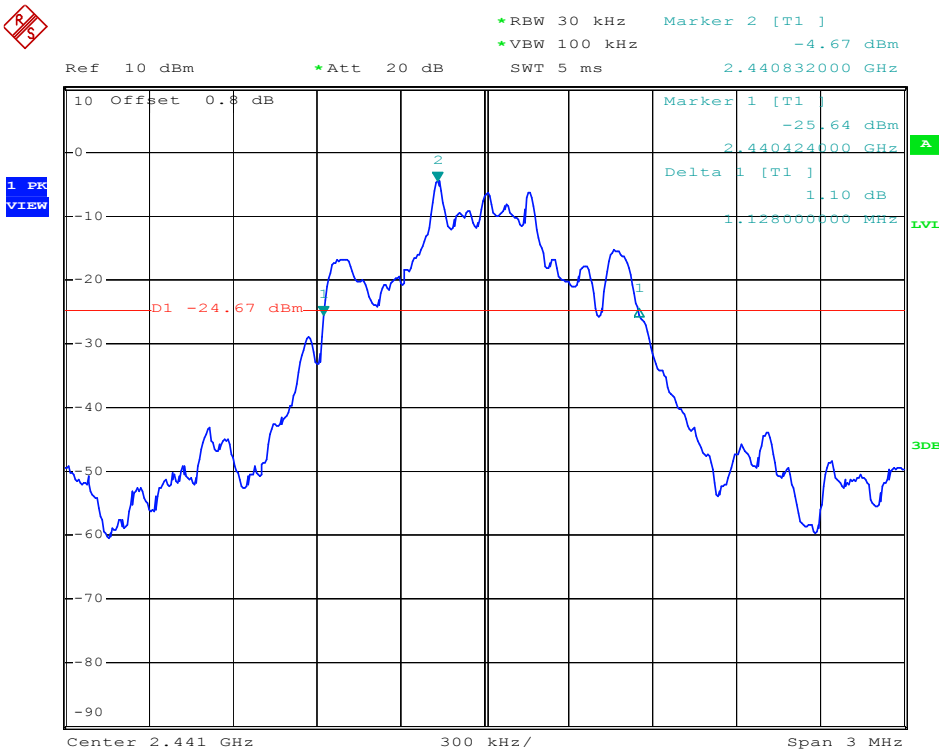


Worst mode: Pi/4 QDPSK (2DH1)

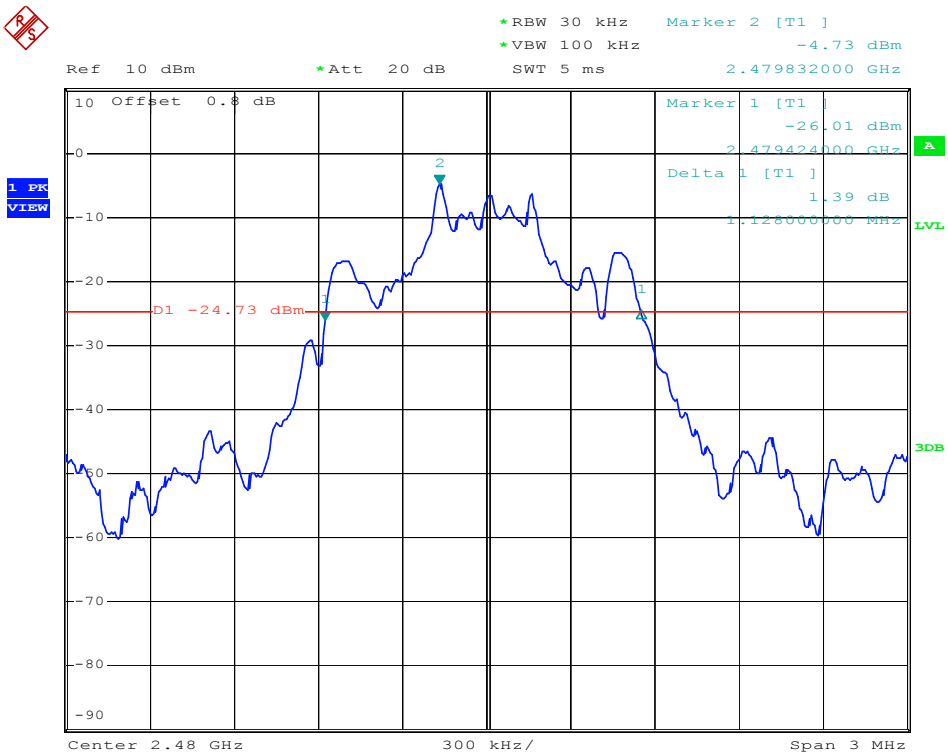
Low Channel:



Middle Channel:

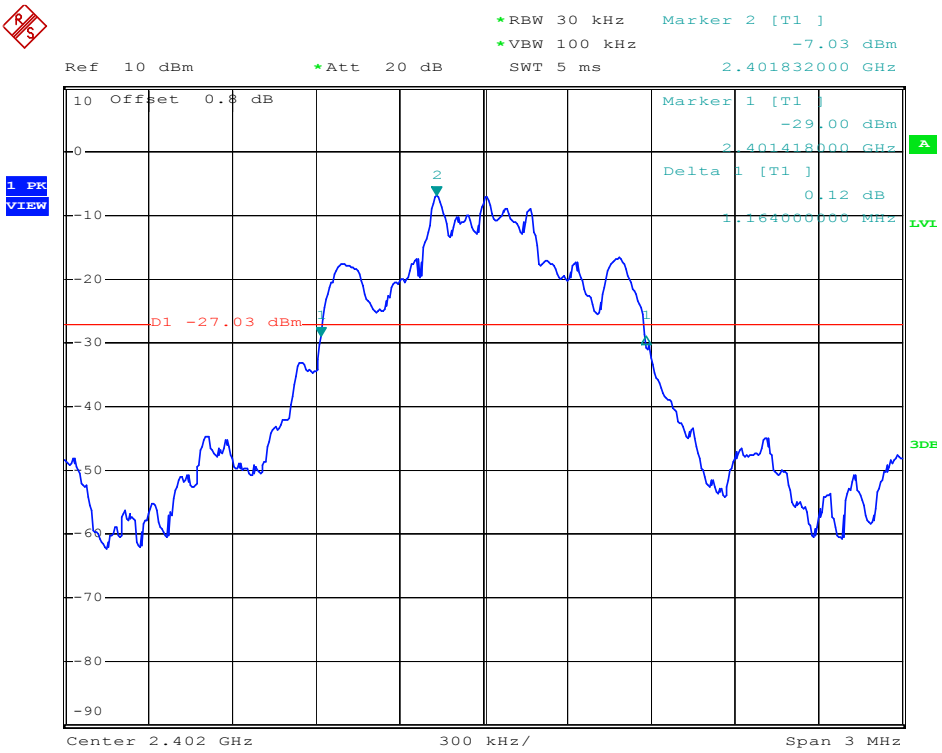


High Channel:

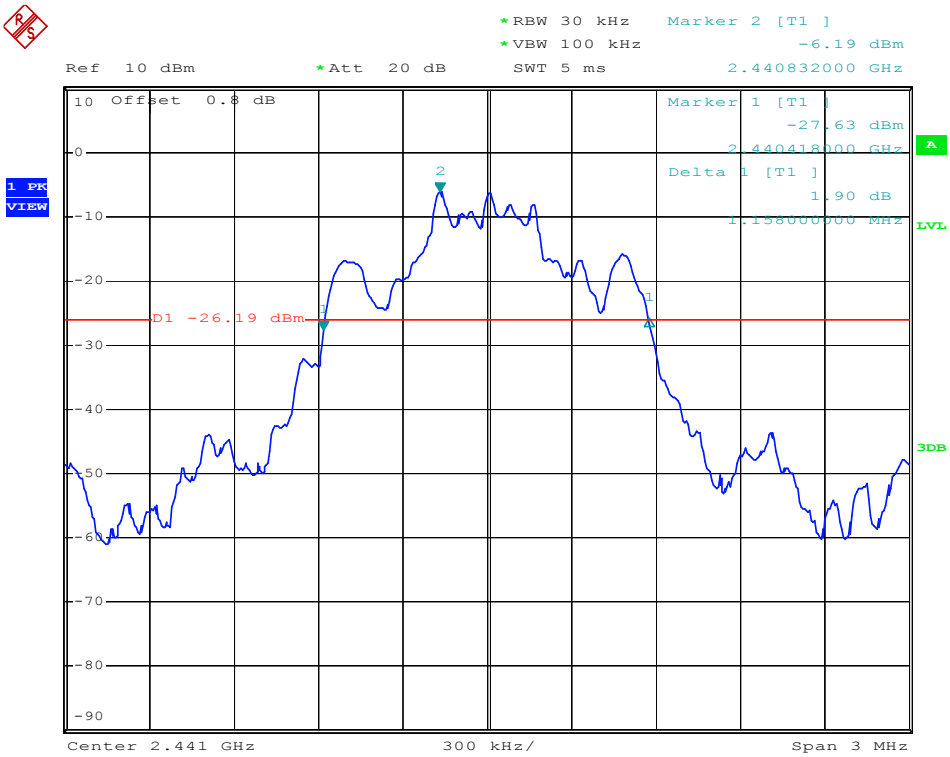


Worst mode: 8DPSK (3DH1)

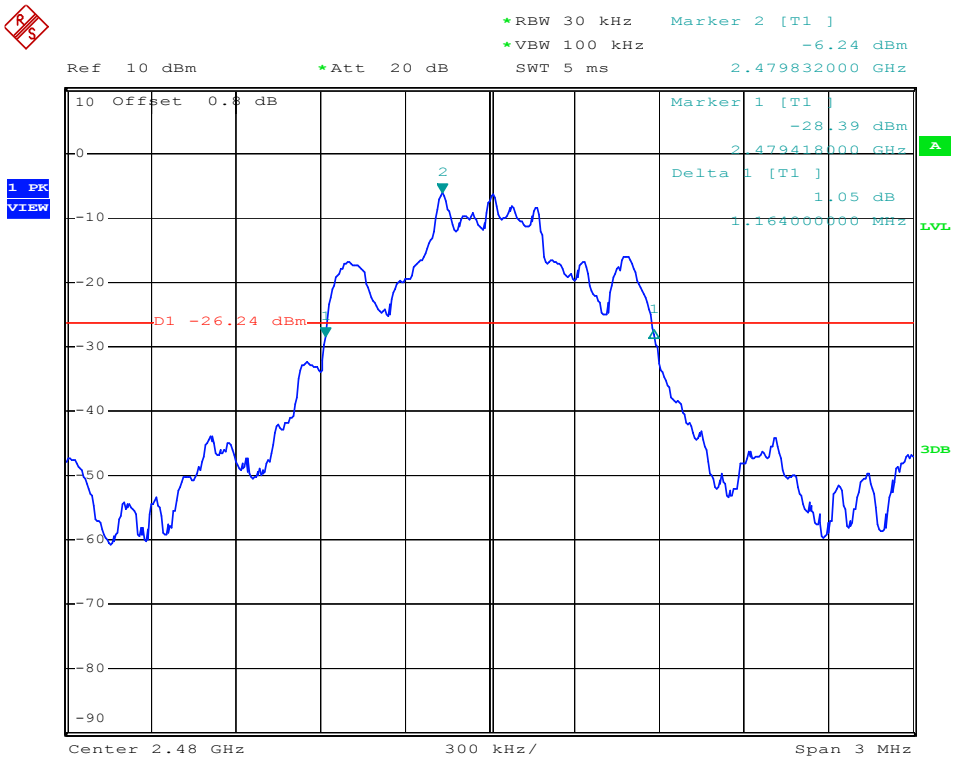
Low Channel:



Middle Channel:



High Channel:

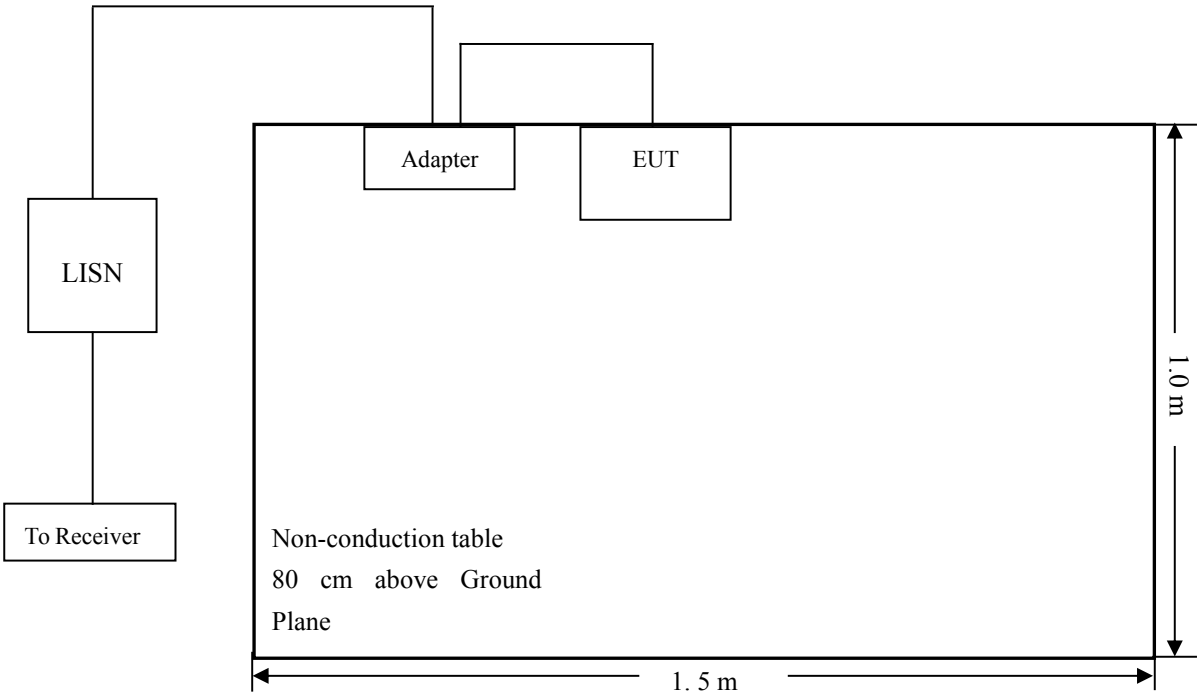


7. Conducted Emissions

7.1 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.

7.2 Basic Test Setup Block Diagram



7.3 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

7.4 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

7.5 Summary of Test Results/Plots

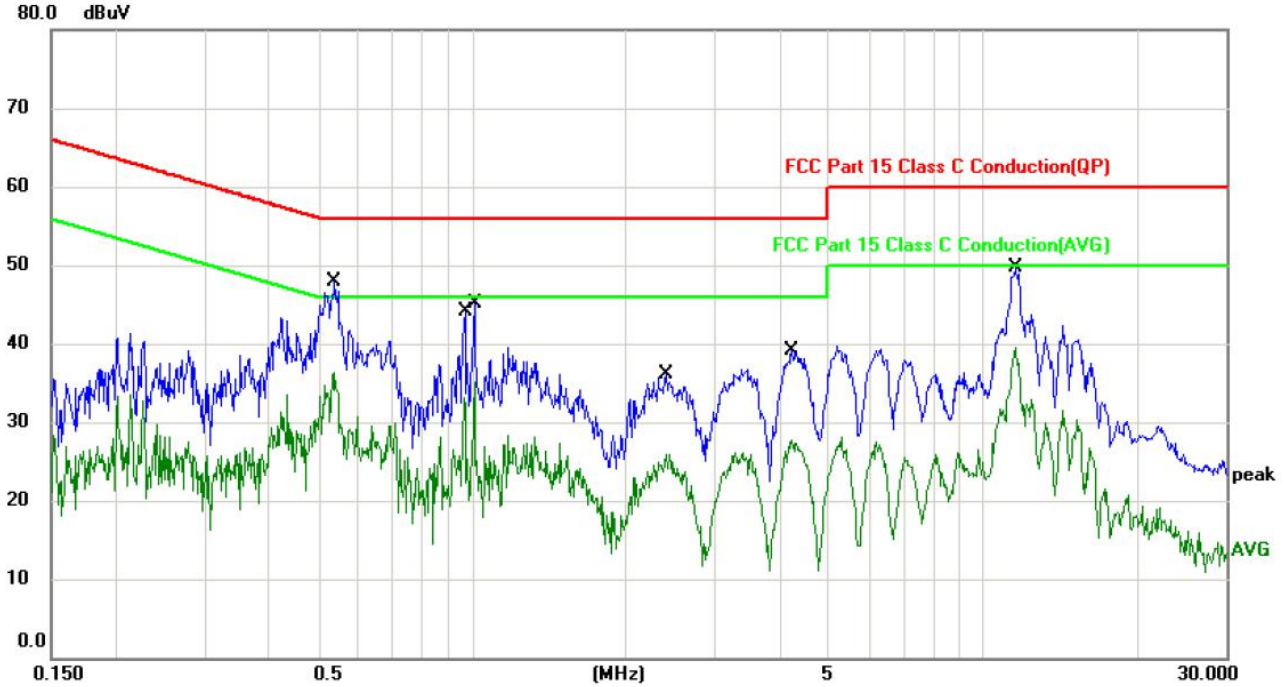
According to the data in section 7.7, the EUT complied with the FCC Part 15.207 Conducted margin for this device.

7.6 Conducted Emissions Test Data

Note: We pre-scan all mode, the worst data is GFSK (Low channel).

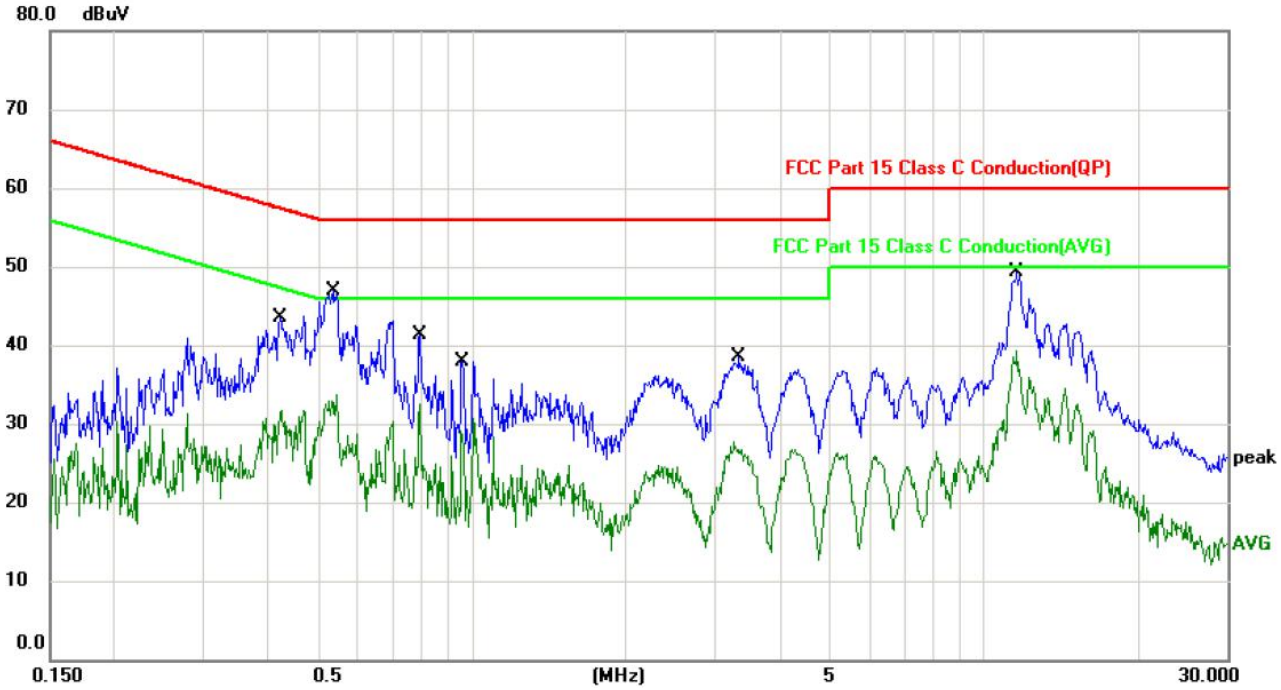
Plot of Conducted Emissions The Worst Test Data GFSK (Low channel):

Test Specification: Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.5376	47.82	0.00	47.82	56.00	-8.18	QP	
2		0.5376	34.19	0.00	34.19	46.00	-11.81	AVG	
3		0.9684	44.03	0.00	44.03	56.00	-11.97	QP	
4		0.9684	33.62	0.00	33.62	46.00	-12.38	AVG	
5		1.0101	45.09	0.00	45.09	56.00	-10.91	QP	
6		1.0101	35.14	0.00	35.14	46.00	-10.86	AVG	
7		2.3961	36.14	0.00	36.14	56.00	-19.86	QP	
8		2.3961	25.91	0.00	25.91	46.00	-20.09	AVG	
9		4.2240	39.16	0.00	39.16	56.00	-16.84	QP	
10		4.2240	27.71	0.00	27.71	46.00	-18.29	AVG	
11		11.5594	49.61	0.00	49.61	60.00	-10.39	QP	
12		11.5594	39.56	0.00	39.56	50.00	-10.44	AVG	

Test Specification: *Line*



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4213	43.45	0.00	43.45	57.42	-13.97	QP	
2		0.4213	31.60	0.00	31.60	47.42	-15.82	AVG	
3	*	0.5350	46.82	0.00	46.82	56.00	-9.18	QP	
4		0.5350	33.76	0.00	33.76	46.00	-12.24	AVG	
5		0.7916	41.20	0.00	41.20	56.00	-14.80	QP	
6		0.7916	32.48	0.00	32.48	46.00	-13.52	AVG	
7		0.9582	37.93	0.00	37.93	56.00	-18.07	QP	
8		0.9582	31.02	0.00	31.02	46.00	-14.98	AVG	
9		3.3281	38.58	0.00	38.58	56.00	-17.42	QP	
10		3.3281	26.85	0.00	26.85	46.00	-19.15	AVG	
11		11.6206	49.40	0.00	49.40	60.00	-10.60	QP	
12		11.6206	39.37	0.00	39.37	50.00	-10.63	AVG	

NOTE:

Corret Factor=LISN Factor+Cable loss.

Measurementt=Reading level+Corret Factor.

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