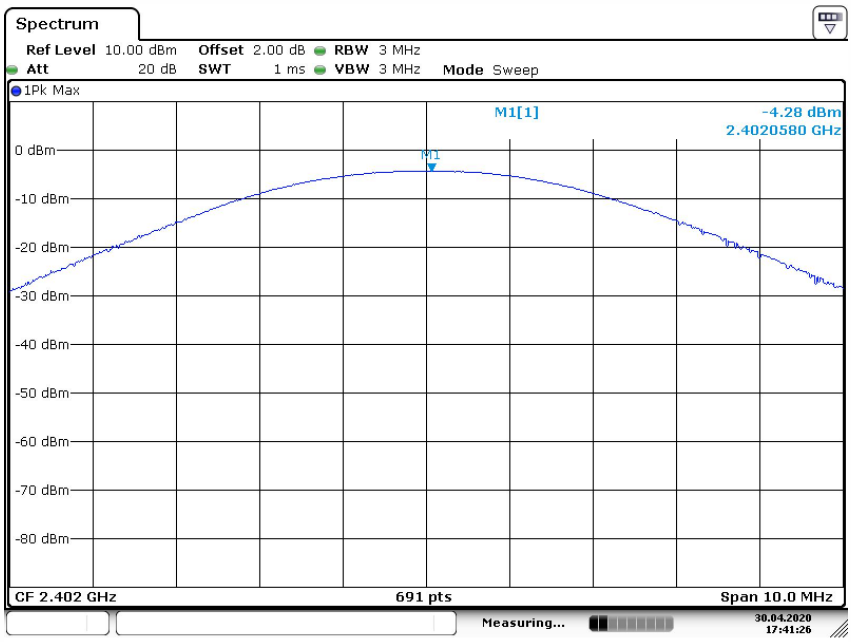
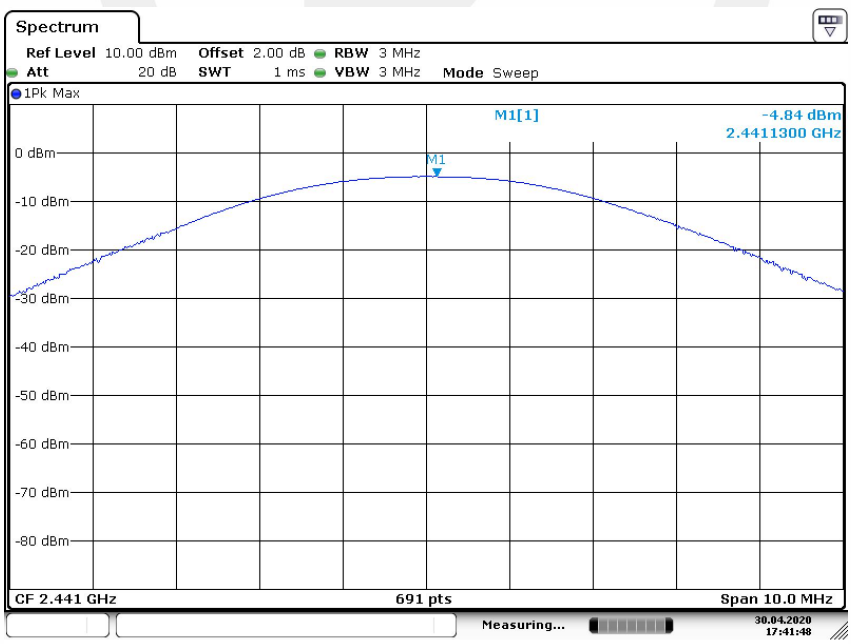
Test Model	Maximum Peak Conducted Output Power Bluetooth with classic mode Channel 0: 2402MHz GFSK



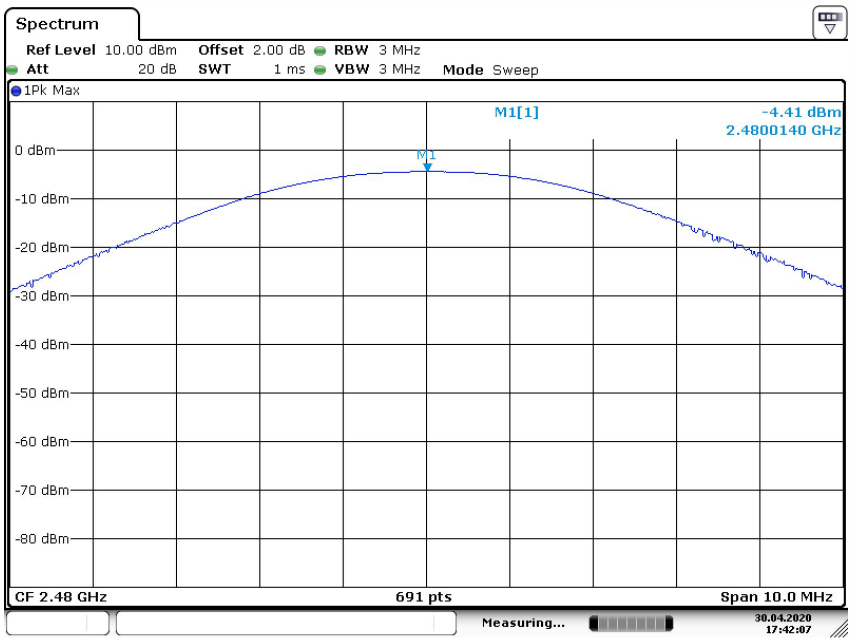
Date: 30.APR.2020 17:41:26

Test Model	Maximum Peak Conducted Output Power Bluetooth with classic mode Channel 39: 2441MHz GFSK



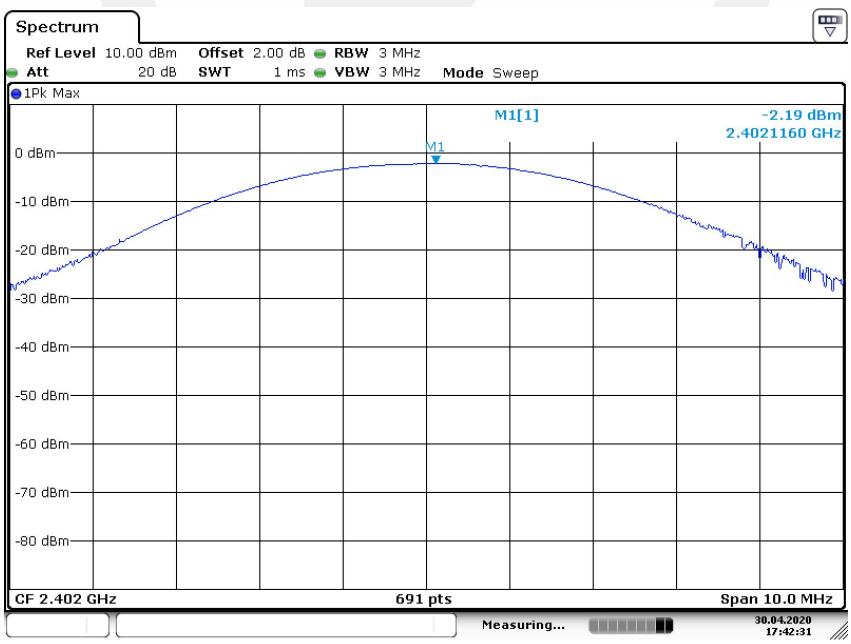
Date: 30.APR.2020 17:41:48

Test Model	Maximum Peak Conducted Output Power Bluetooth with classic mode Channel 78: 2480MHz GFSK



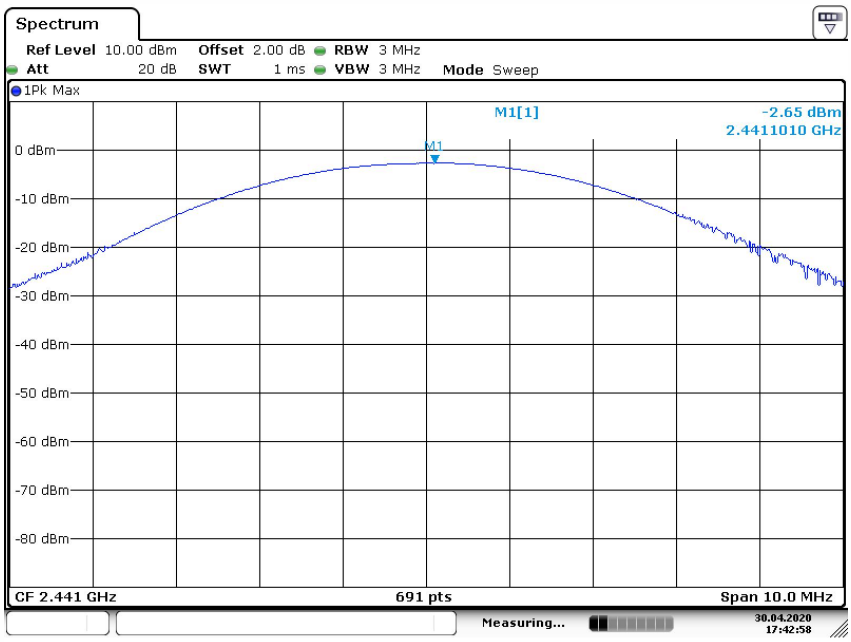
Date: 30.APR.2020 17:42:07

Test Model	Maximum Peak Conducted Output Power Bluetooth with classic mode Channel 0: 2402MHz pi/4-DQPSK



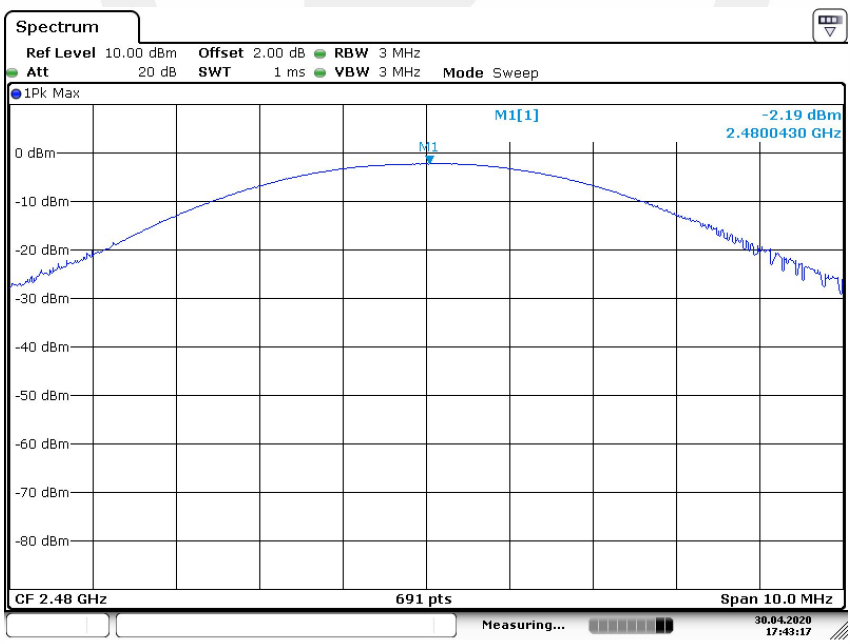
Date: 30.APR.2020 17:42:32

Test Model	Maximum Peak Conducted Output Power Bluetooth with classic mode Channel 39: 2441MHz pi/4-DQPSK



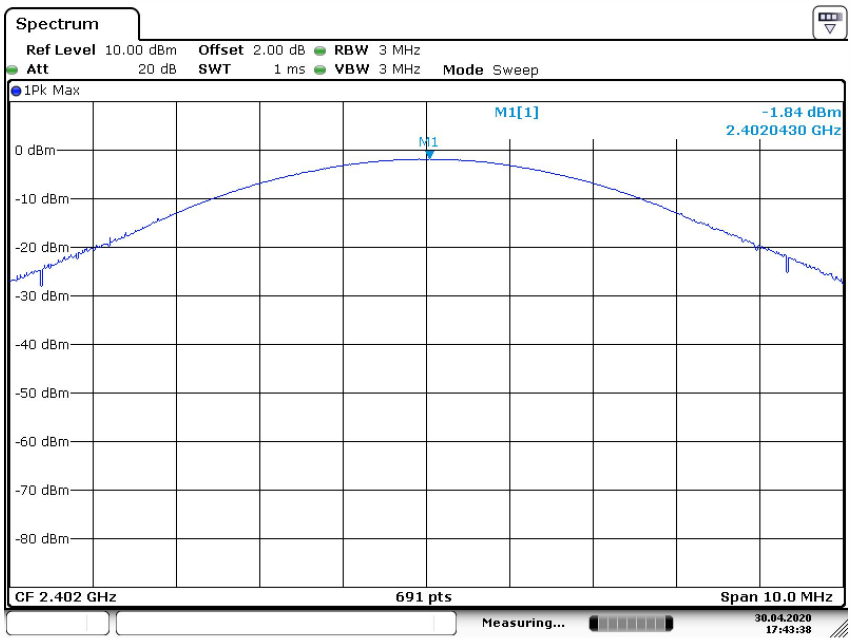
Date: 30.APR.2020 17:42:57

Test Model	Maximum Peak Conducted Output Power Bluetooth with classic mode Channel 78: 2480MHz pi/4-DQPSK



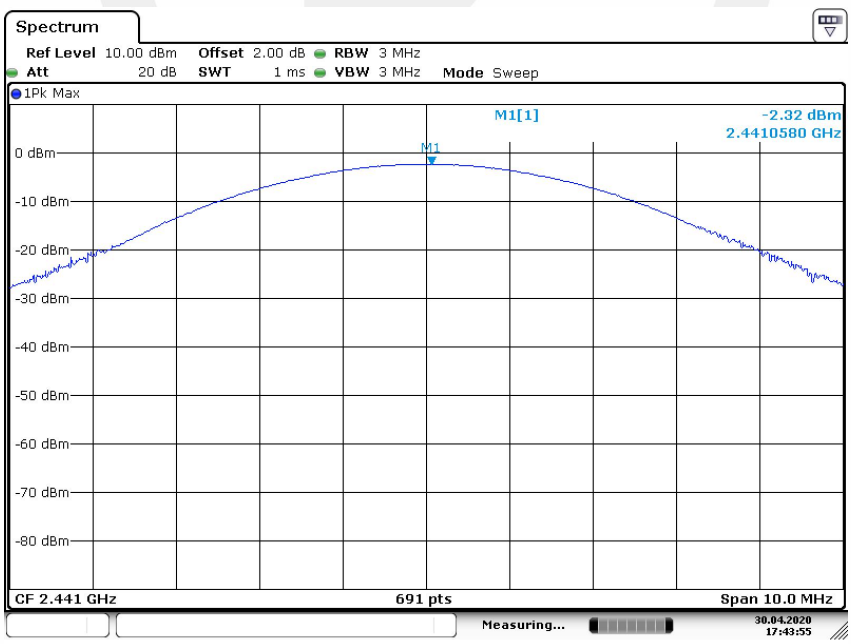
Date: 30.APR.2020 17:43:17

Test Model	Maximum Peak Conducted Output Power Bluetooth with classic mode Channel 0: 2402MHz 8DPSK



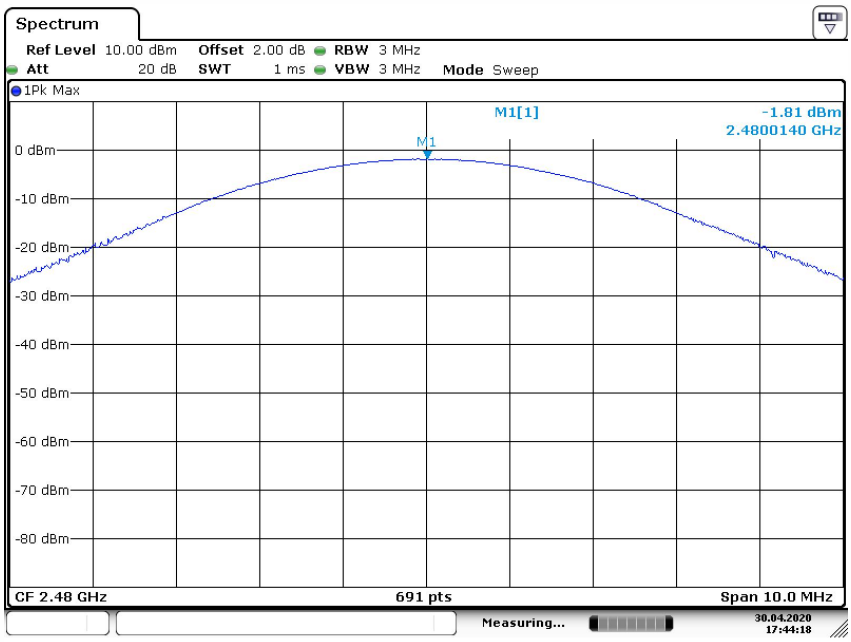
Date: 30.APR.2020 17:43:39

Test Model	Maximum Peak Conducted Output Power Bluetooth with classic mode Channel 39: 2441MHz 8DPSK



Date: 30.APR.2020 17:43:55

Test Model	Maximum Peak Conducted Output Power Bluetooth with classic mode Channel 78: 2480MHz 8DPSK



Date: 30.APR.2020 17:44:18

9.6 CONDUCTED SPURIOUS EMISSION

9.6.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 MEAS GUIDANCE V05r02

9.6.2 Conformance Limit

According to FCC Part 15.247(d):
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, provided the transmitter demonstrates compliance with the peak conducted power limits.

9.6.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

9.6.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

- **Reference level measurement**

Establish a reference level by using the following procedure:
Set instrument center frequency to DSS channel center frequency.
Set Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel.
Set the RBW = 100 kHz. Set the VBW ≥ 3 x RBW.
Set Detector = peak. Set Sweep time = auto couple.
Set Trace mode = max hold. Allow trace to fully stabilize.
Use the peak marker function to determine the maximum Maximum conduceted level.
Note that the channel found to contain the maximum conduceted level can be used to establish the reference level.

- **Band-edge Compliance of RF Conducted Emissions**

Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the emission operating on the channel closest to the band-edge, as well as any modulation products which fall outside of the authorized band of operation
Set RBW ≥ 1% of the span=100kHz Set VBW ≥ RBW
Set Sweep = auto Set Detector function = peak Set Trace = max hold
Allow 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. The marker-delta value now displayed must comply with the limit specified in this Section.
Now, using the same instrument settings, enable the hopping function of the EUT. Allow the trace to stabilize. Follow the same procedure listed above to determine if any spurious emissions caused by the hopping function also comply with the specified limit.

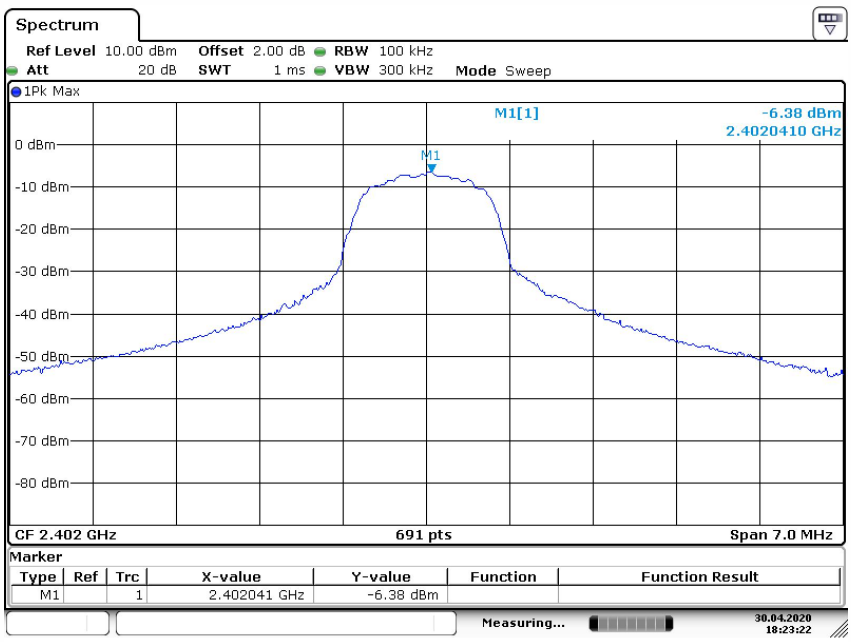
- **Conduceted Spurious RF Conducted Emission**

Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic.(30MHz to 25GHz). Set RBW = 100 kHz Set VBW ≥ RBW
Set Sweep = auto Set Detector function = peak Set Trace = max hold
Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this Section.

9.6.5 Test Results

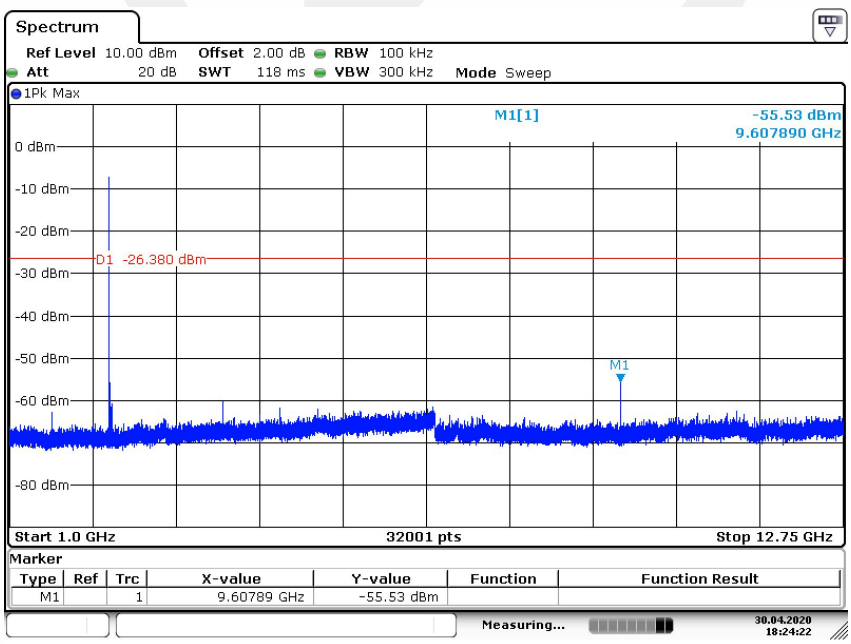
Bluetooth (GFSK, pi/4-DQPSK, 8DPSK) mode have been tested, and the worst result(GFSK) was report as below:

Test Model	Maximum Conduceted Level RBW=100kHz Bluetooth with classic mode Channel 0: 2402MHz GFSK



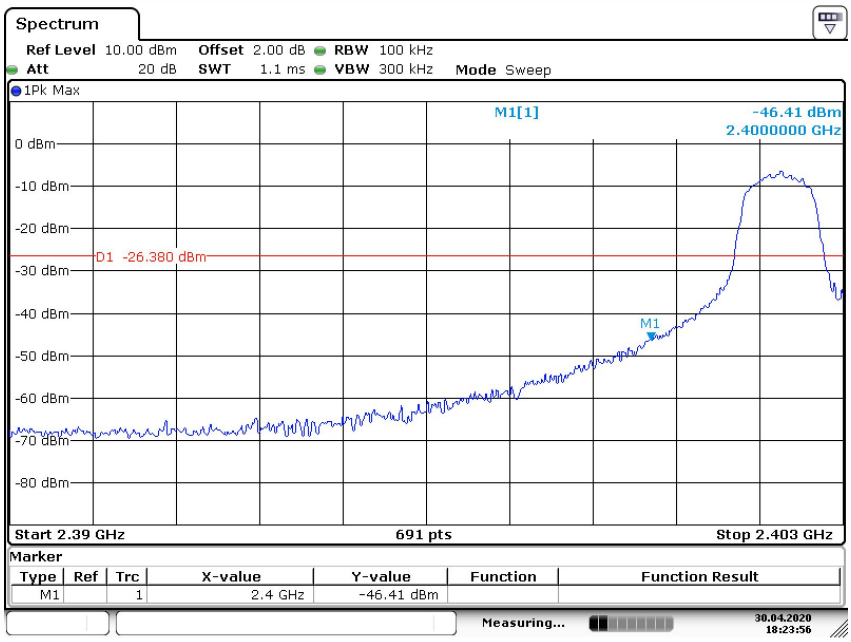
Date: 30.APR.2020 18:23:22

Test Model	Conduceted Spurious RF Conducted Emission Bluetooth with classic mode Channel 0: 2402MHz GFSK



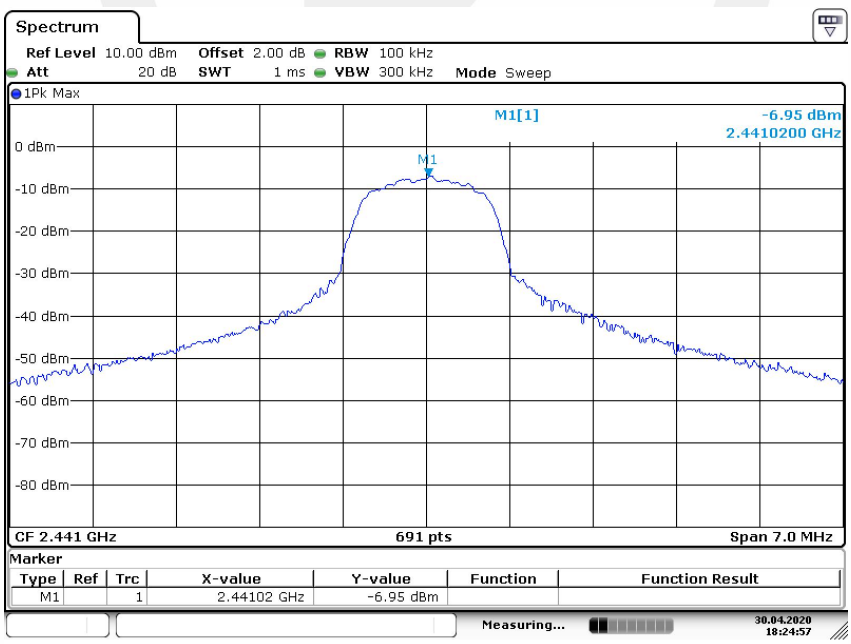
Date: 30.APR.2020 18:24:22

Test Model	Band-edge Conducted Emissions Bluetooth with classic mode Channel 0: 2402MHz GFSK



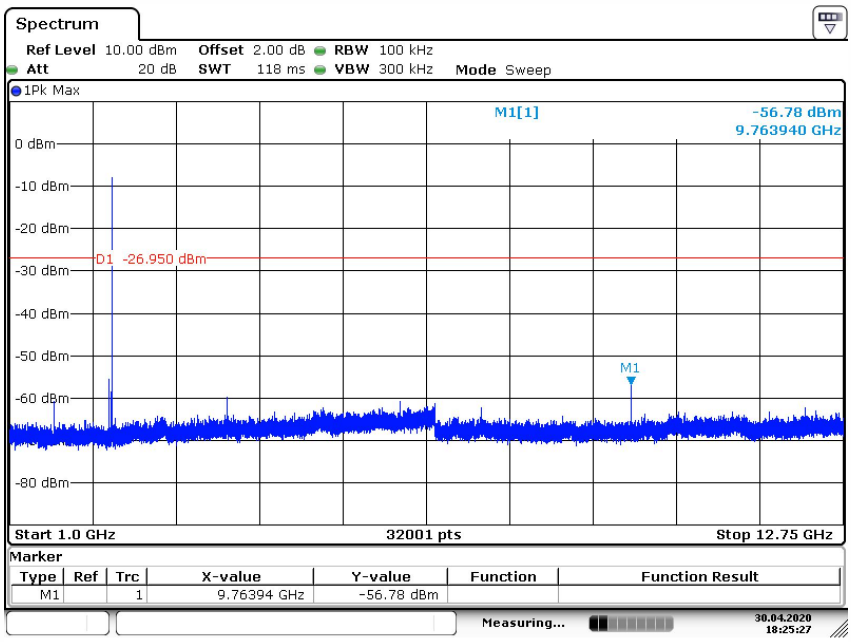
Date: 30.APR.2020 18:23:56

Test Model	Maximum Conduceted Level RBW=100kHz Bluetooth with classic mode Channel 39: 2441MHz GFSK



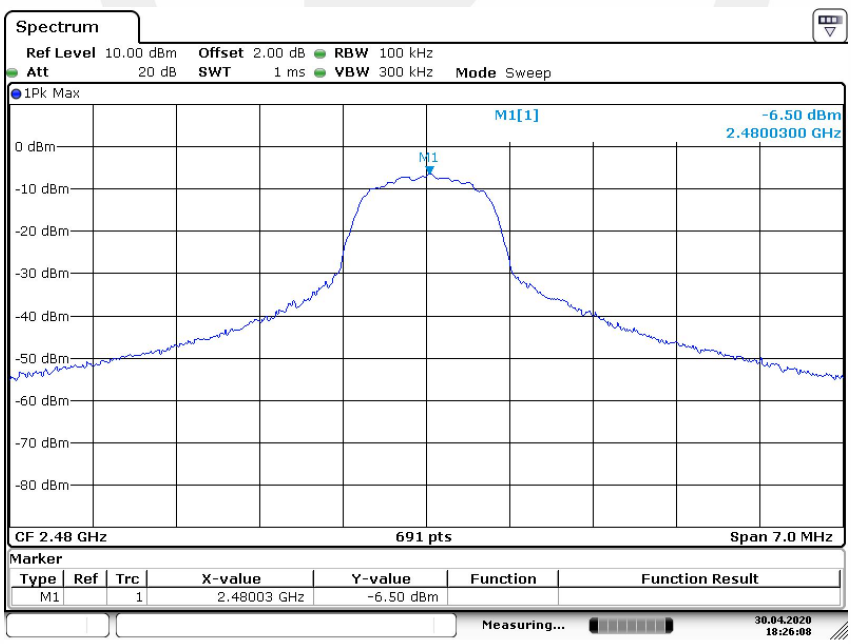
Date: 30.APR.2020 18:24:57

Test Model	Conduceted Spurious RF Conducted Emission Bluetooth with classic mode Channel 39: 2441MHz GFSK



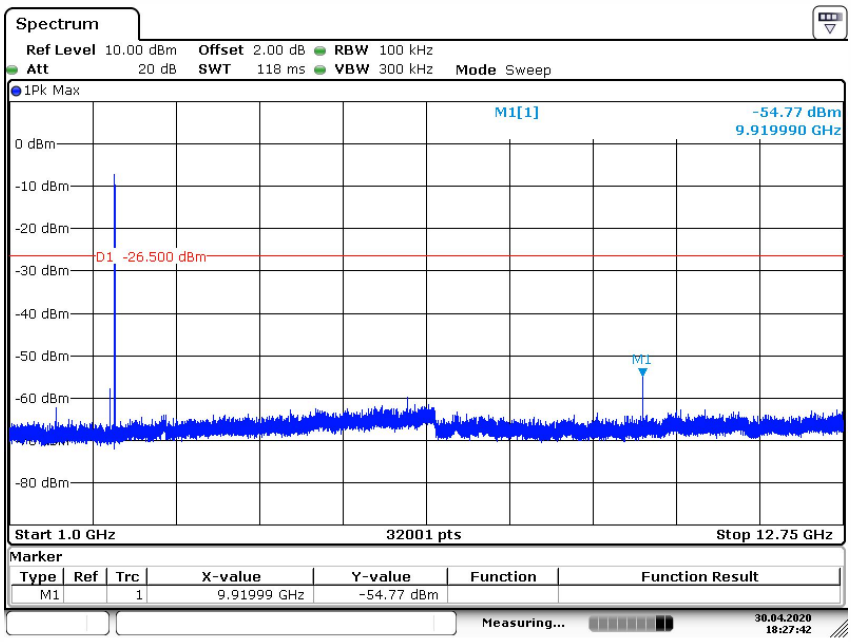
Date: 30.APR.2020 18:25:27

Test Model	Maximum Conduceted Level RBW=100kHz Bluetooth with classic mode Channel 78: 2480MHz GFSK



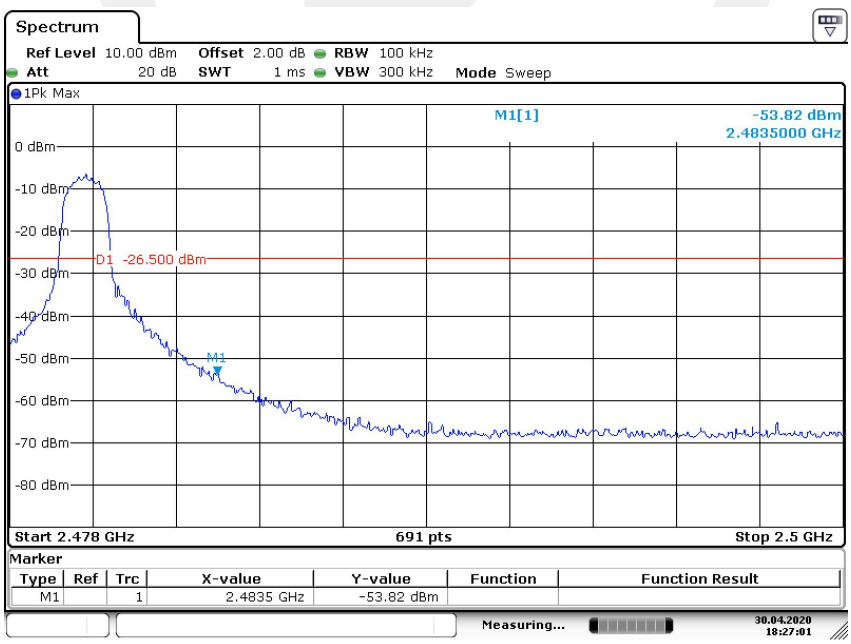
Date: 30.APR.2020 18:26:08

Test Model	Conduceted Spurious RF Conducted Emission Bluetooth with classic mode Channel 78: 2480MHz GFSK



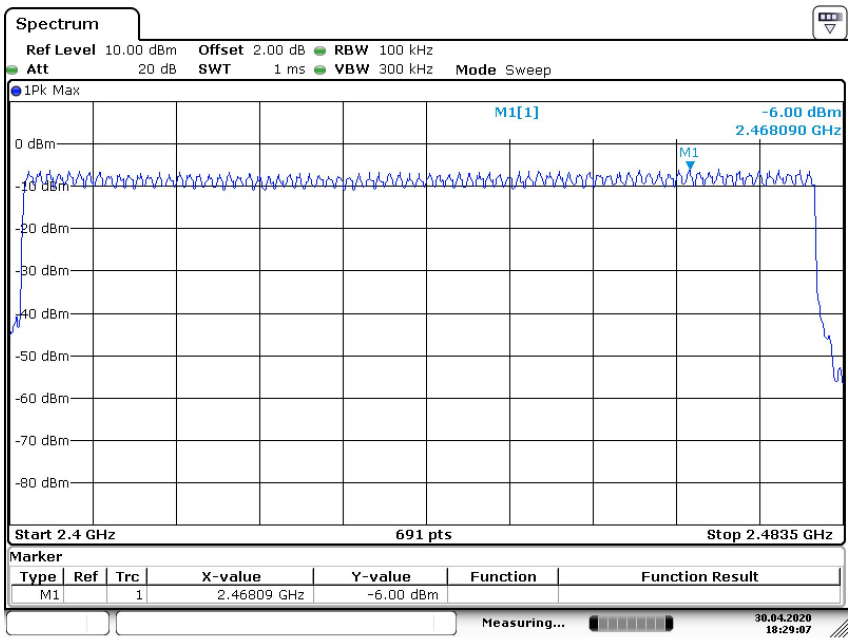
Date: 30.APR.2020 18:27:42

Test Model	Band-edge Conducted Emissions Bluetooth with classic mode Channel 78: 2480MHz GFSK



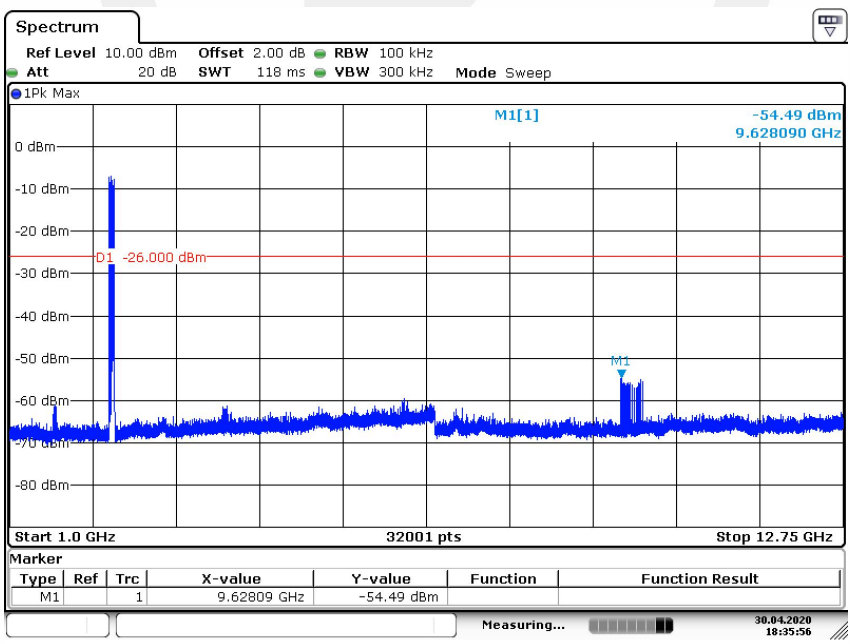
Date: 30.APR.2020 18:27:01

Test Model	Maximum Conduceted Level RBW=100kHz Bluetooth with classic mode Hopping GFSK



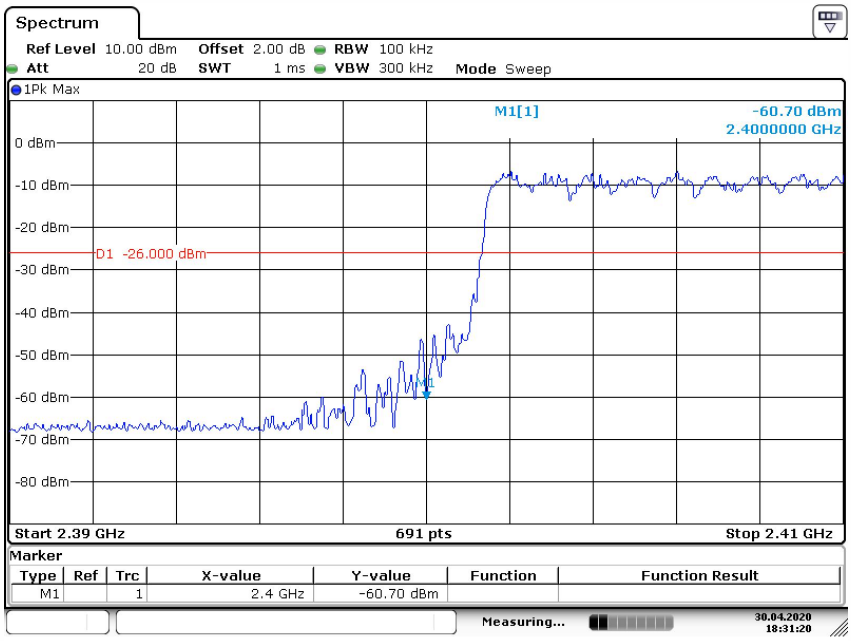
Date: 30.APR.2020 18:29:07

Test Model	Conduceted Spurious RF Conducted Emission Bluetooth with classic mode Hopping GFSK

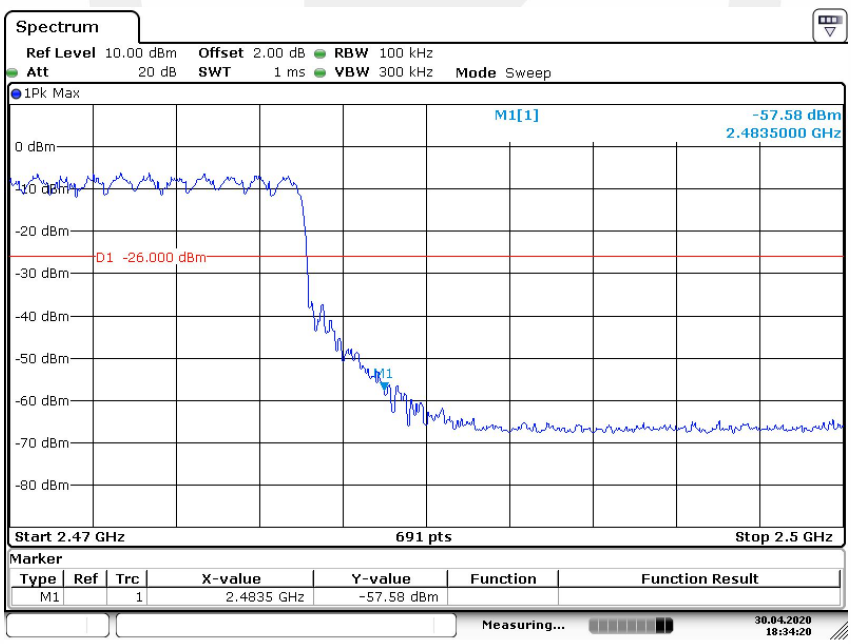


Date: 30.APR.2020 18:35:56

Test Model	Band-edge Conducted Emissions Bluetooth with classic mode Hopping	GFSK



Date: 30.APR.2020 18:31:19



Date: 30.APR.2020 18:34:20

9.7 RADIATED SPURIOUS EMISSION

9.7.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and KDB 558074 D01 MEAS GUIDANCE V05r02

9.7.2 Conformance Limit

According to FCC Part 15.247(d): 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) (see §15.205(c)).
According to FCC Part15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

According to FCC Part15.205, the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

9.7.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

9.7.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:
For Above 1GHz:
The EUT was placed on a turn table which is 1.5m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Span = wide enough to fully capture the emission being measured
RBW = 1 MHz
VBW ≥ RBW
Sweep = auto

Detector function = peak
Trace = max hold
For Below 1GHz:
The EUT was placed on a turn table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Span = wide enough to fully capture the emission being measured
RBW = 100 kHz for
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold
For Below 30MHz:
The EUT was placed on a turn table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Span = wide enough to fully capture the emission being measured
RBW = 9kHz
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold
For Below 150KHz:
The EUT was placed on a turn table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Span = wide enough to fully capture the emission being measured
RBW = 200Hz
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold
Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.
Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a “duty cycle correction factor”, derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the 15.209 limit. Submit this data.
Repeat above procedures until all frequency measured was complete.

9.7.5 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor

■ Spurious Emission Above 1GHz (1GHz to 25GHz)

Bluetooth (GFSK, pi/4-DQPSK, 8DPSK) mode have been tested, and the worst result(GFSK) was report as below:

Test mode: GFSK Frequency: Channel 0: 2402MHz

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m) PK	AV	Limit 3m(dBuV/m) PK	AV	Over(dB) PK	AV
4803.75	V	53.90	48.65	74	54	-20.10	-5.35
12180.05	V	57.49	41.67	74	54	-16.51	-12.33
17626.85	V	61.73	44.08	74	54	-12.27	-9.92
4881.70	H	54.33	47.37	74	54	-19.67	-6.63
11896.15	H	57.87	41.16	74	54	-16.13	-12.84
17764.55	H	60.98	43.52	74	54	-13.02	-10.48

Test mode: GFSK Frequency: Channel 39: 2441MHz

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m) PK	AV	Limit 3m(dBuV/m) PK	AV	Over(dB) PK	AV
4881.70	V	52.52	46.37	74	54	-21.48	-7.63
11996.45	V	57.61	41.11	74	54	-16.39	-12.89
17881.00	V	60.99	43.86	74	54	-13.01	-10.14
4881.70	H	54.33	47.37	74	54	-19.67	-6.63
11896.15	H	57.87	41.16	74	54	-16.13	-12.84
17764.55	H	60.98	43.52	74	54	-13.02	-10.48

Test mode: GFSK Frequency: Channel 78: 2480MHz

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m) PK	AV	Limit 3m(dBuV/m) PK	AV	Over(dB) PK	AV
4955.90	V	46.17	49.31	74	54	-27.83	-4.69
12019.40	V	57.54	41.47	74	54	-16.46	-12.53
17678.70	V	61.55	44.02	74	54	-12.45	-9.98
4959.90	H	52.64	47.82	74	54	-21.36	-6.18
11801.80	H	56.65	41.34	74	54	-17.35	-12.66
17682.95	H	61.01	43.56	74	54	-12.99	-10.44

Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
(2) Emission Level= Reading Level+Correct Factor +Cable Loss.
(3) Correct Factor= Ant_F + Cab_L - Preamp
(4)The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

Bluetooth (GFSK, pi/4-DQPSK, 8DPSK, Hopping) mode have been tested, and the worst result(GFSK, Hopping) was report as below:

Test mode:	GFSK	Frequency:	Channel 0: 2402MHz

Frequency (MHz)	Polarity H/V	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	Over(dB)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)	Over(dB)
2386.384	H	50.16	74	-23.84	35.67	54	-18.33
2388.696	V	50.21	74	-23.79	36.84	54	-17.16

Test mode:	GFSK	Frequency:	Channel 78: 2480MHz

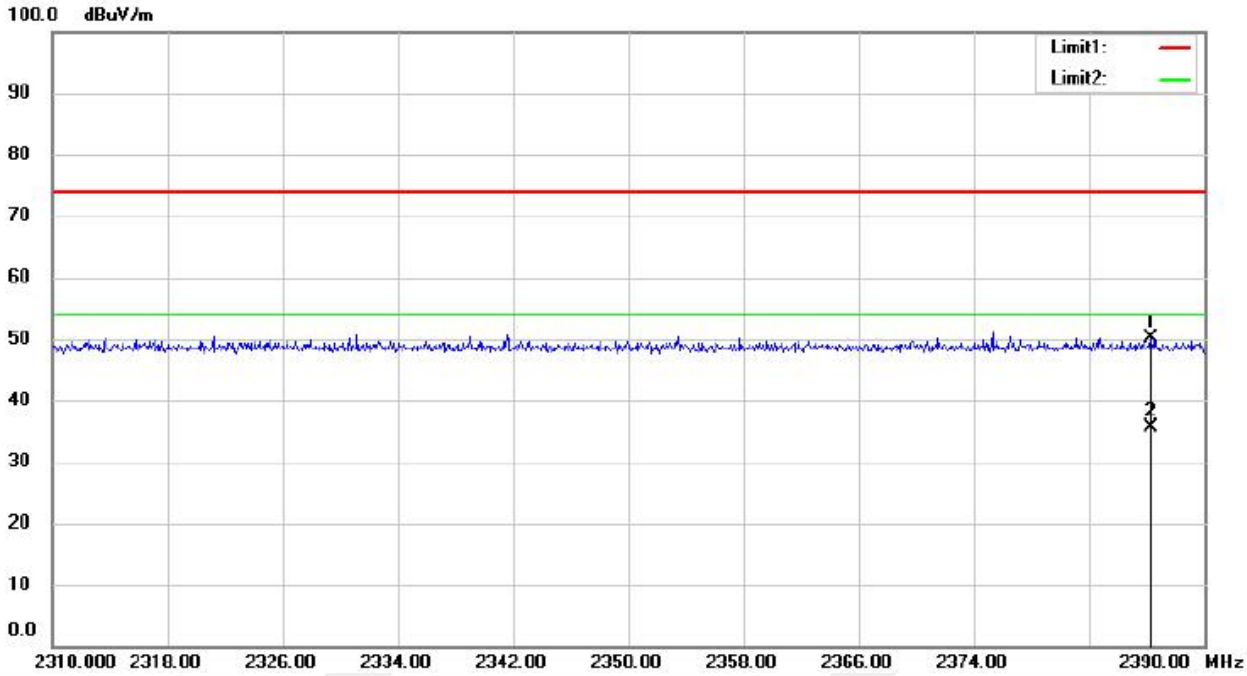
Frequency (MHz)	Polarity H/V	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	Over(dB)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)	Over(dB)
2483.579	H	59.88	74	-14.12	39.13	54	-14.87
2483.606	V	59.89	74	-14.11	38.76	54	-15.24

Test mode:	GFSK	Frequency:	Hopping

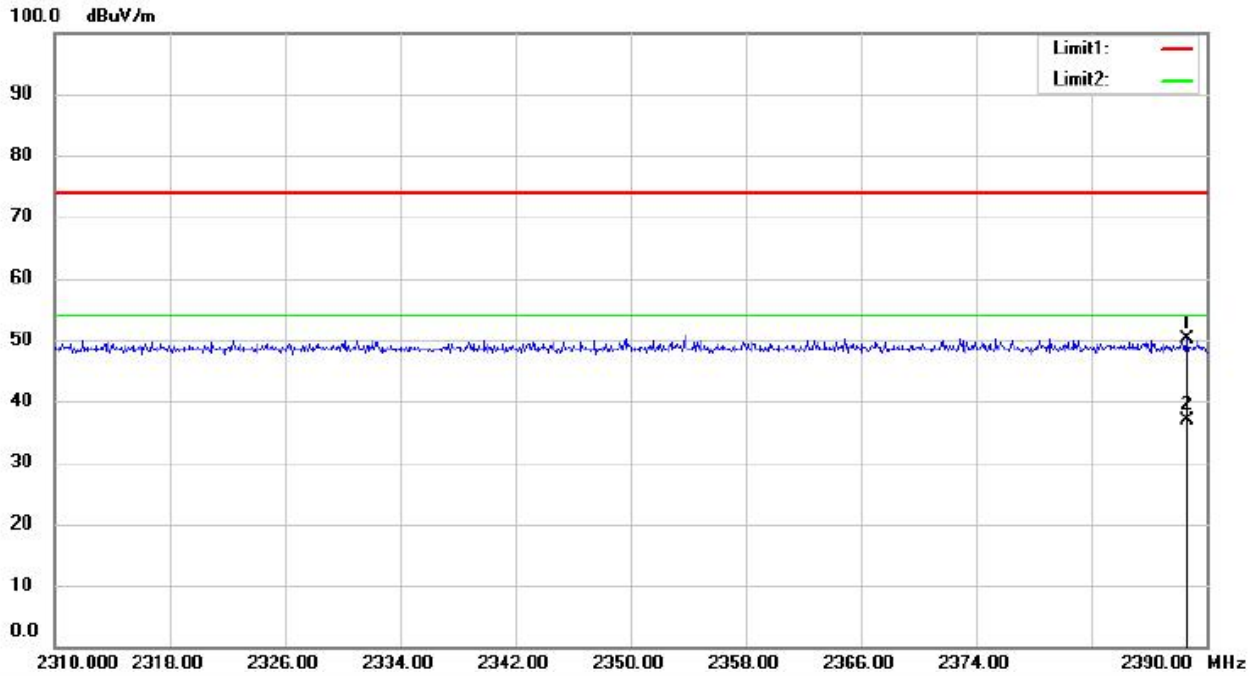
Frequency (MHz)	Polarity H/V	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	Over(dB)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)	Over(dB)
2390.00	H	48.06	74	-25.94	35.68	54	-18.32
2483.50	H	58.26	74	-15.74	38.65	54	-15.35
2390.00	V	48.62	74	-25.38	35.02	54	-18.98
2483.50	V	57.05	74	-16.95	37.64	54	-16.36

Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

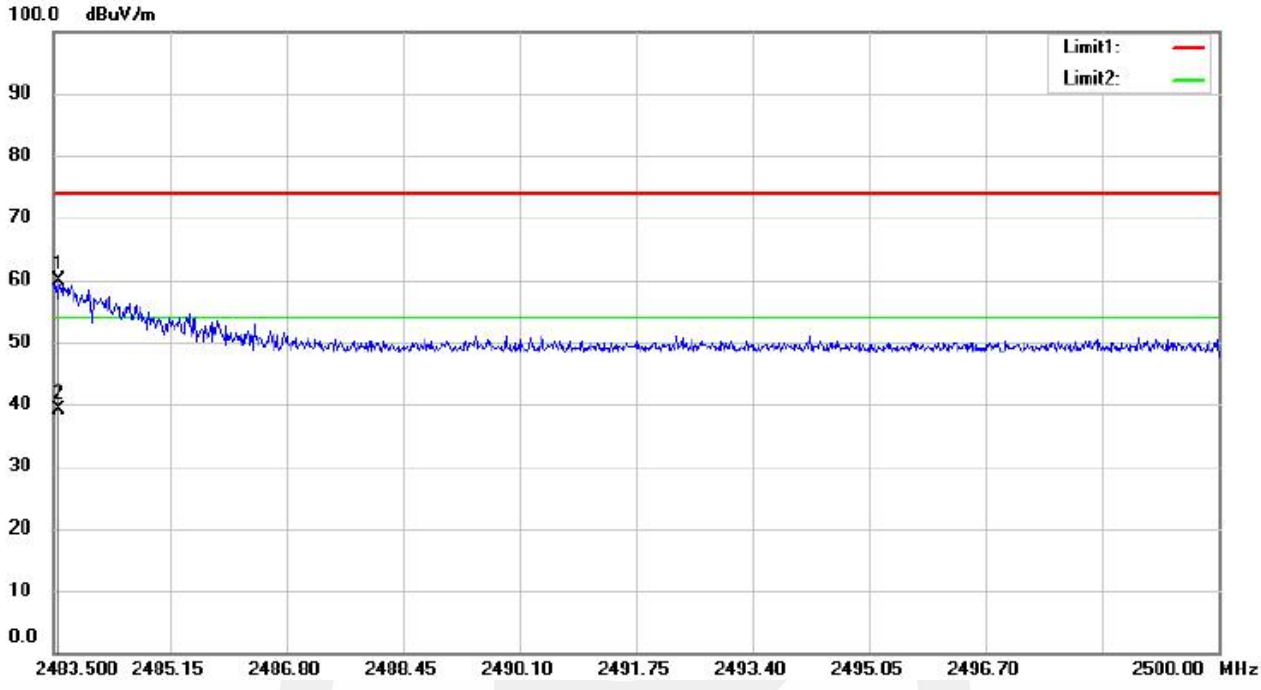
Test Model	Spurious Emission in Restricted Band 2310-2390MHz Bluetooth with classic mode Channel 0: 2402MHz	GFSK	H
		Test By: XW	



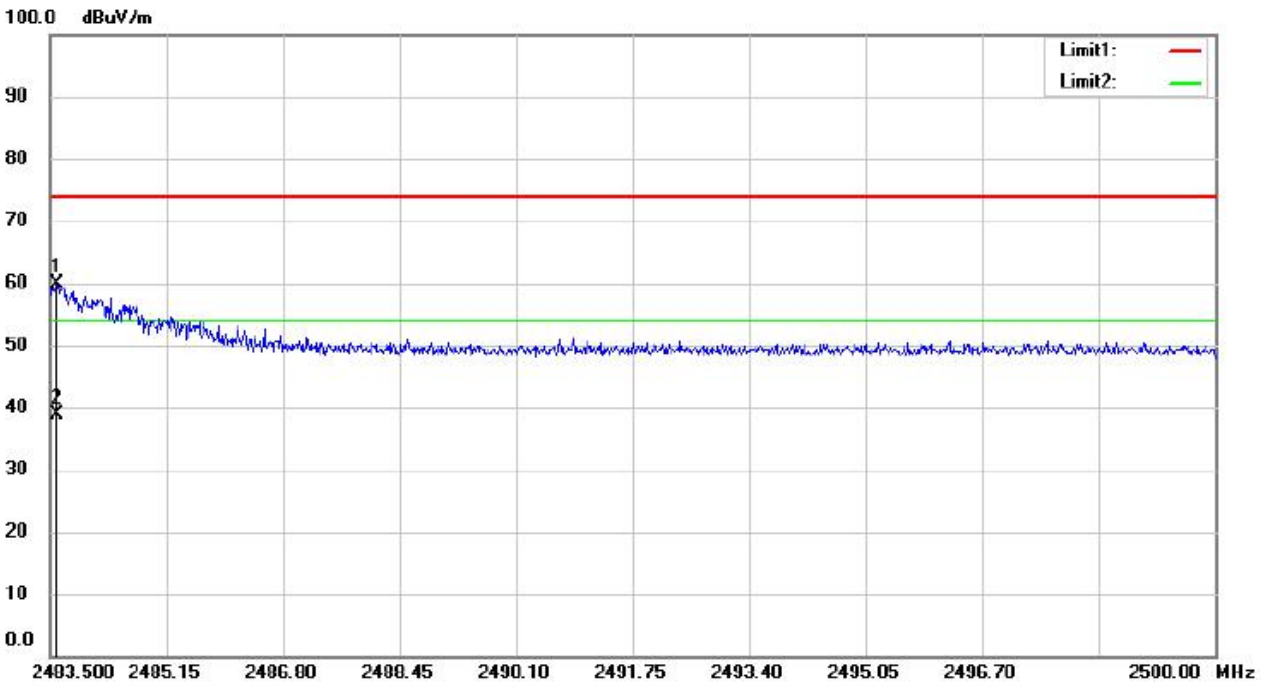
Test Model	Spurious Emission in Restricted Band 2310-2390MHz Bluetooth with classic mode Channel 0: 2402MHz	GFSK Test By: XW	V



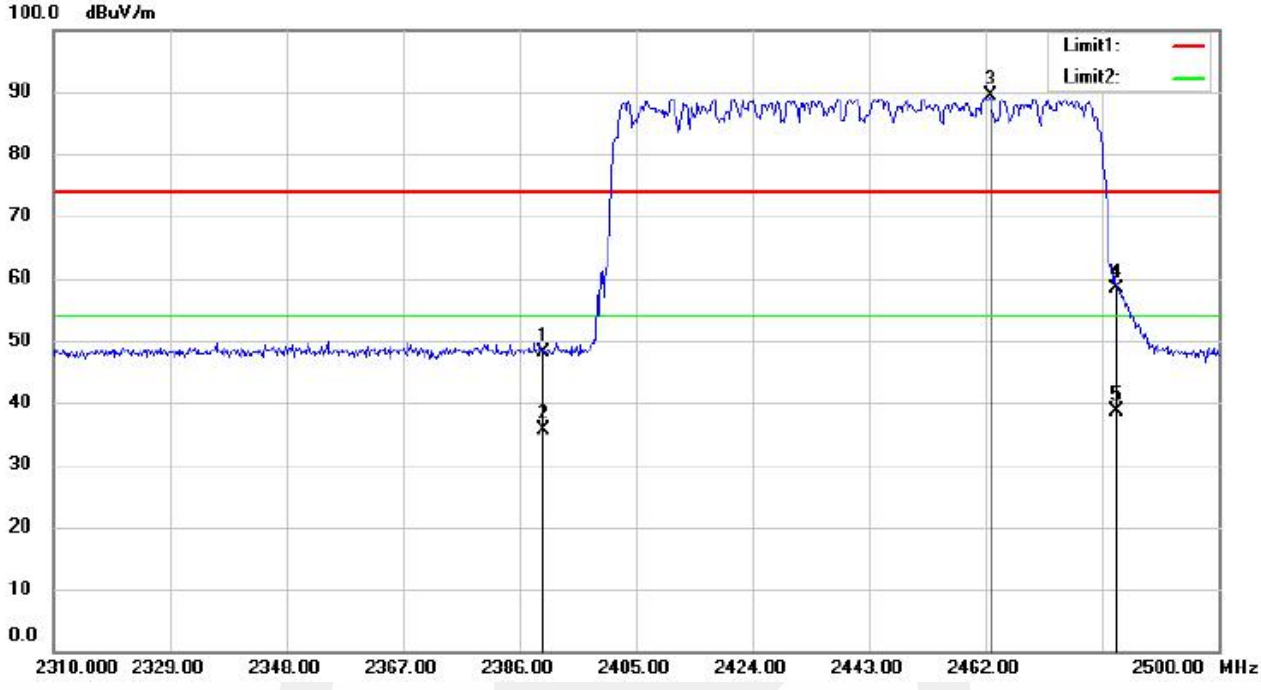
Test Model	Spurious Emission in Restricted Band 2483.5-2500MHz Bluetooth with classic mode Channel 78: 2480MHz	GFSK Test By: XW	H



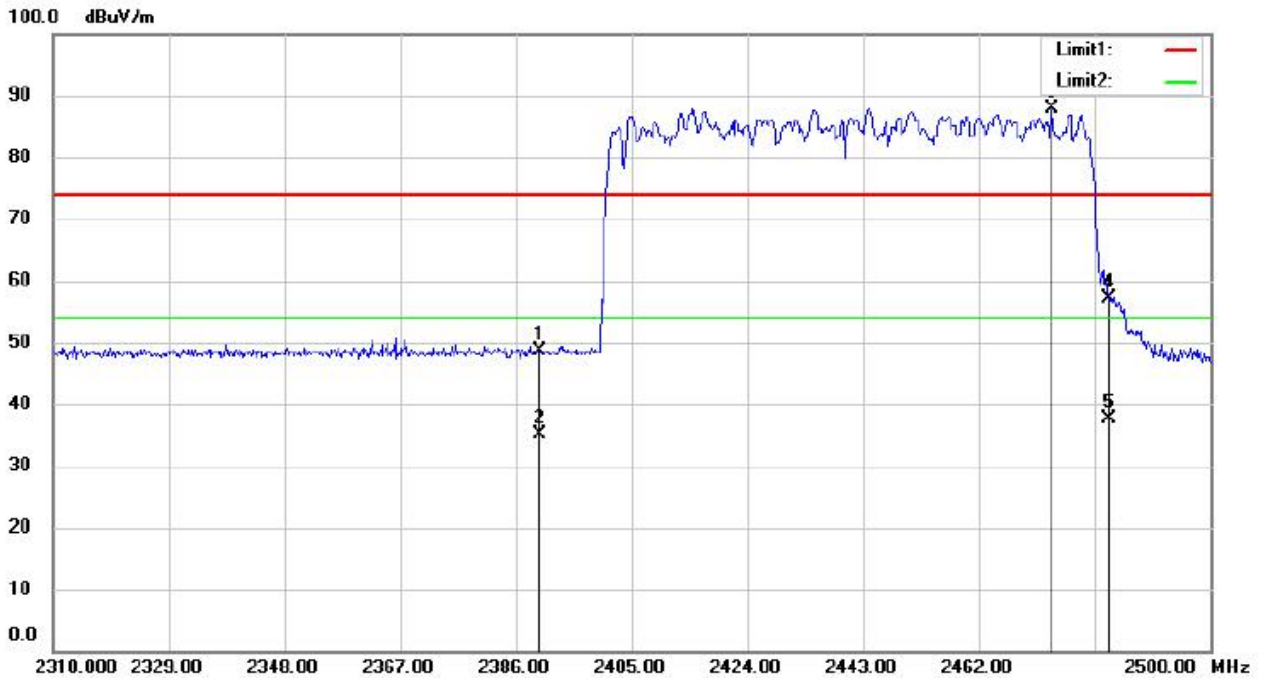
Test Model	Spurious Emission in Restricted Band 2483.5-2500MHz Bluetooth with classic mode Channel 78: 2480MHz	GFSK Test By: XW	V



Test Model	Spurious Emission in Restricted Band 2310-2390MHz and 2400-2483.5MHz Bluetooth with classic mode Hopping GFSK H Test By: XW

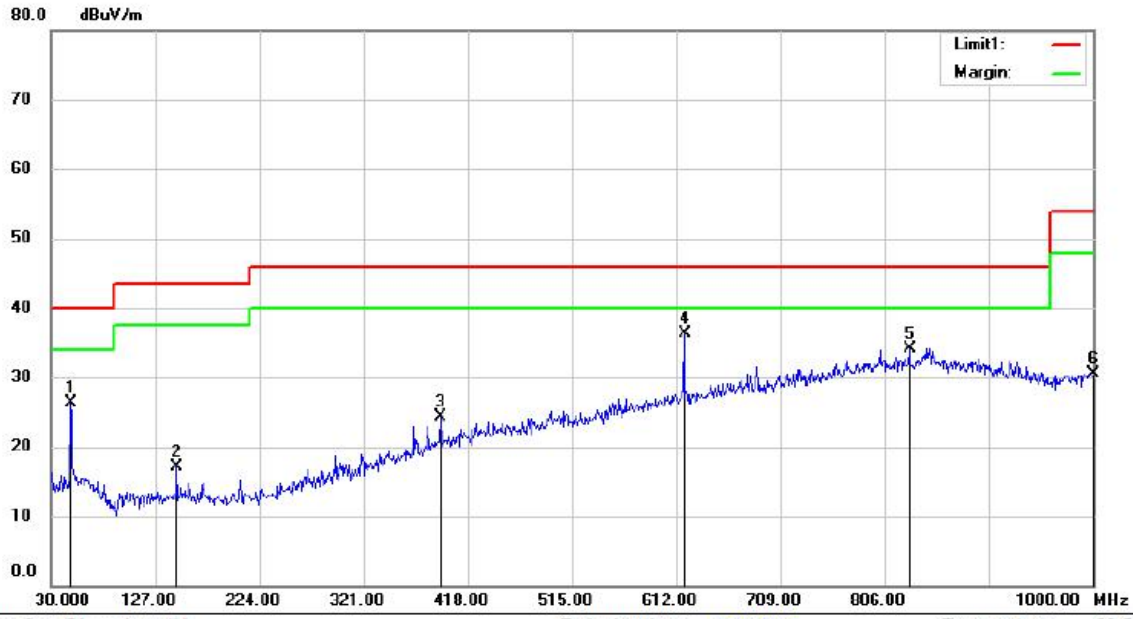


Test Model	Spurious Emission in Restricted Band 2310-2390MHz and 2400-2483.5MHz Bluetooth with classic mode Hopping GFSK V Test By: XW



■ Spurious Emission below 1GHz(30MHz to 1GHz)

All Bluetooth (GFSK, pi/4-DQPSK, 8DPSK) modes have been tested, and the worst results has been recorded on the follow page.



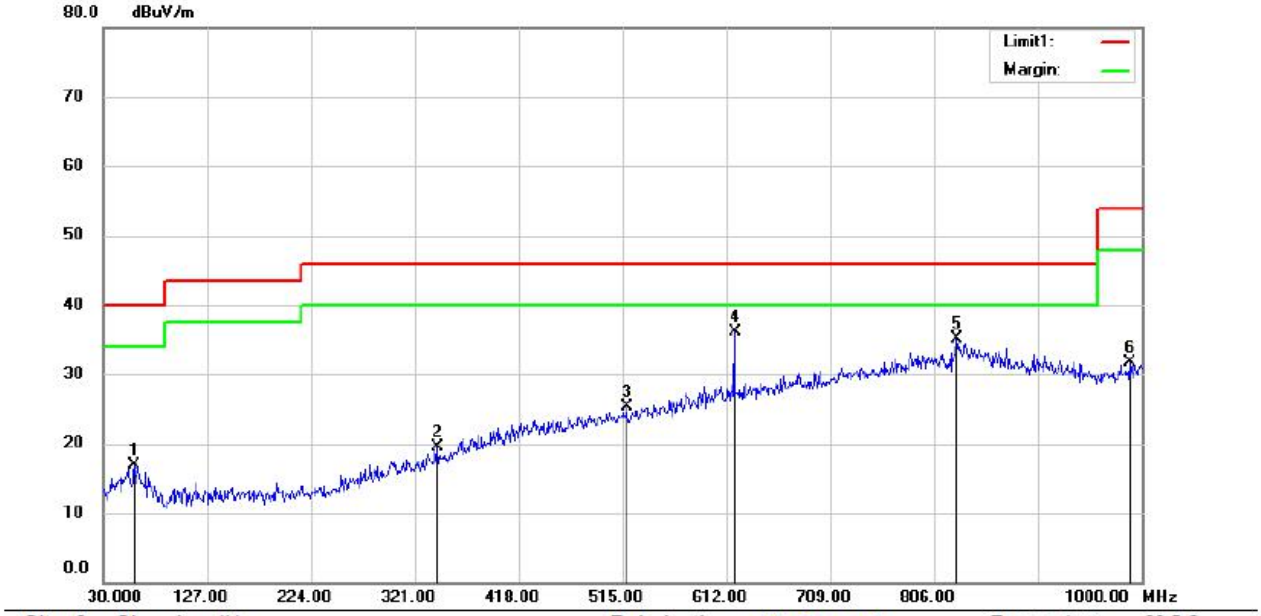
Site 3m Chamber #1 Polarization: *Vertical* Temperature: 29.5 C

Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 48 %

Mode:BT 2402MHz

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		48.4300	38.49	-12.12	26.37	40.00	-13.63	QP			
2		147.3700	30.85	-13.83	17.02	43.50	-26.48	QP			
3		392.7800	30.60	-6.35	24.25	46.00	-21.75	QP			
4	*	619.7600	36.86	-0.46	36.40	46.00	-9.60	QP			
5		829.2800	29.69	4.48	34.17	46.00	-11.83	QP			
6		1000.000	27.90	2.63	30.53	54.00	-23.47	QP			



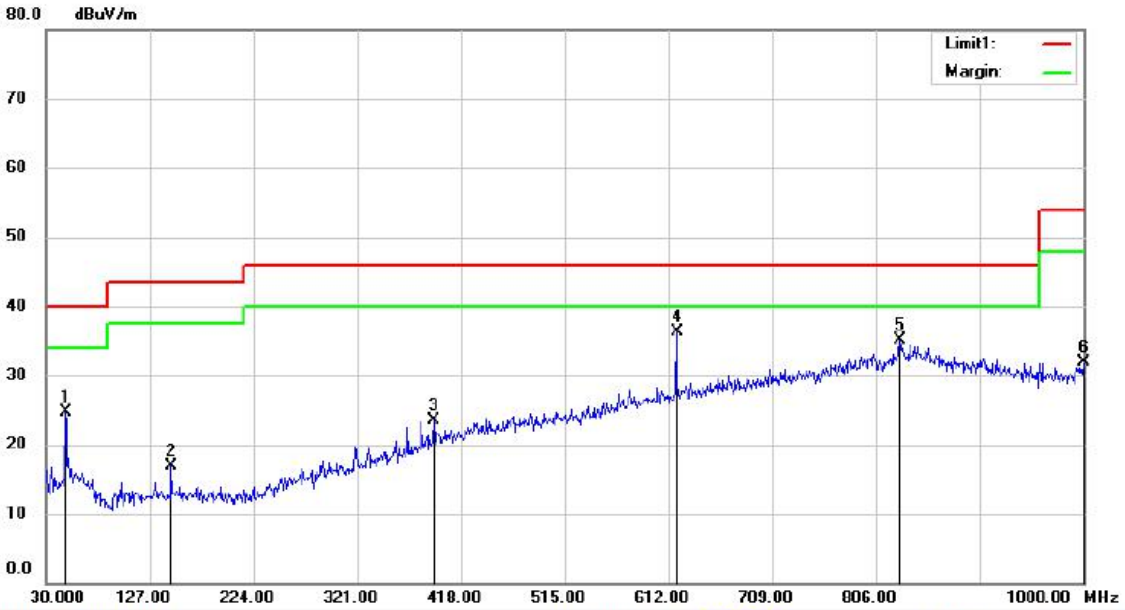
Site 3m Chamber #1 Polarization: *Horizontal* Temperature: 29.5 C

Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 48 %

Mode:BT 2402MHz

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		59.1000	28.71	-11.78	16.93	40.00	-23.07	QP			
2		342.3400	27.86	-8.41	19.45	46.00	-26.55	QP			
3		518.8800	28.81	-3.45	25.36	46.00	-20.64	QP			
4	*	619.7600	36.50	-0.46	36.04	46.00	-9.96	QP			
5		827.3400	30.74	4.40	35.14	46.00	-10.86	QP			
6		988.3600	29.57	2.13	31.70	54.00	-22.30	QP			



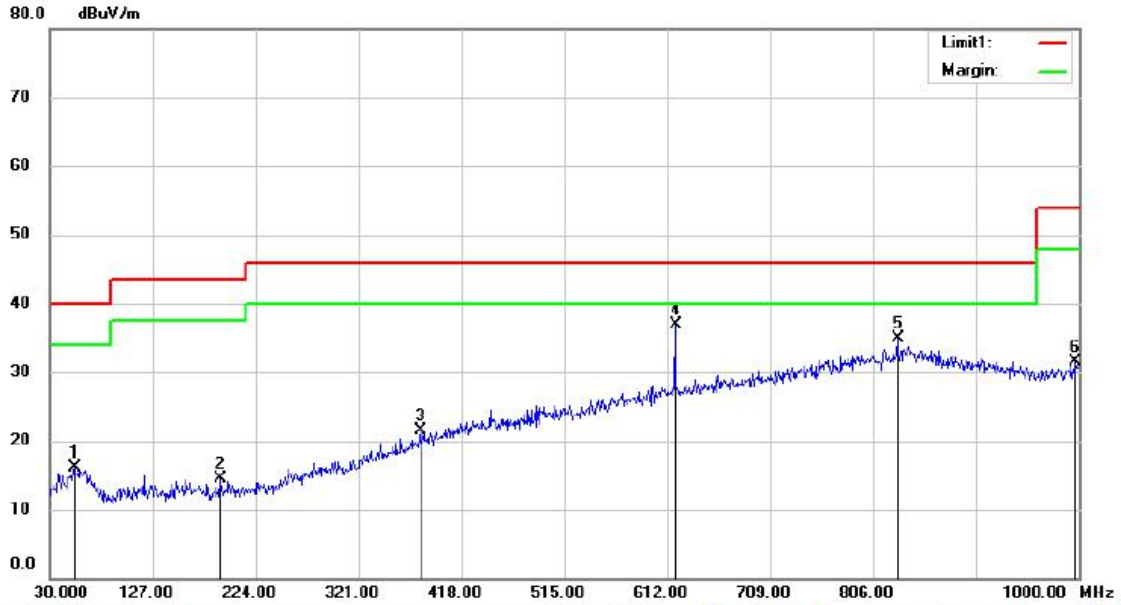
Site 3m Chamber #1 Polarization: *Vertical* Temperature: 29.5 C

Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 48 %

Mode:BT 2441MHz

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		48.4300	36.87	-12.12	24.75	40.00	-15.25	QP			
2		147.3700	30.78	-13.83	16.95	43.50	-26.55	QP			
3		392.7800	29.77	-6.35	23.42	46.00	-22.58	QP			
4	*	619.7600	36.78	-0.46	36.32	46.00	-9.68	QP			
5		828.3100	30.67	4.44	35.11	46.00	-10.89	QP			
6		1000.000	29.25	2.63	31.88	54.00	-22.12	QP			



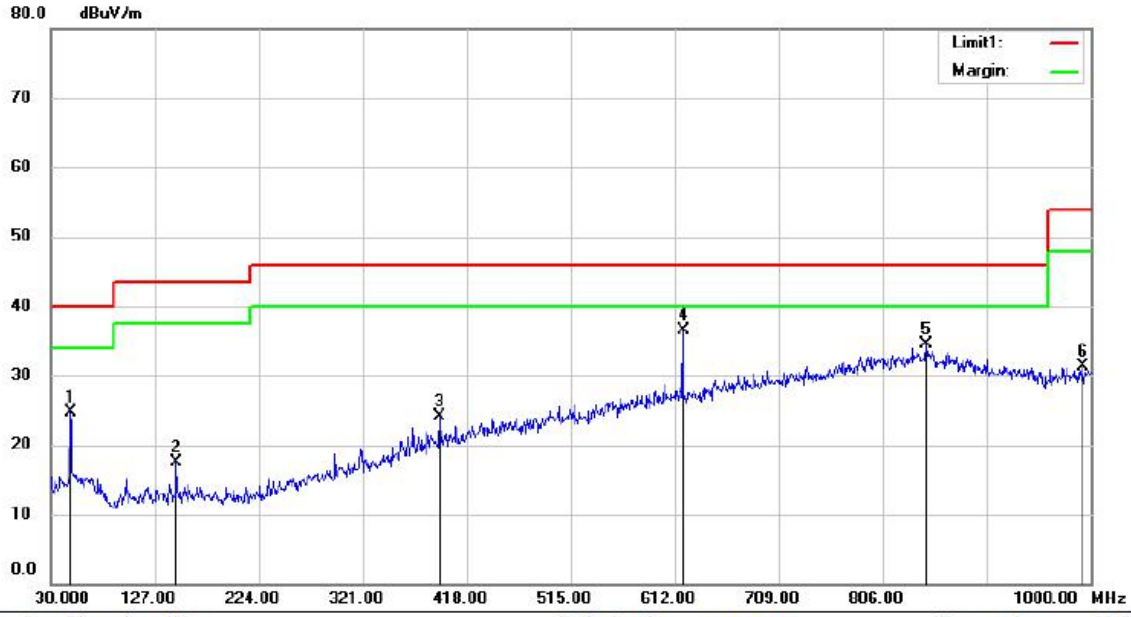
Site 3m Chamber #1 Polarization: *Horizontal* Temperature: 29.5 C

Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 48 %

Mode:BT 2441MHz

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		53.2800	27.66	-11.62	16.04	40.00	-23.96	QP			
2		191.0200	28.34	-13.91	14.43	43.50	-29.07	QP			
3		379.2000	28.65	-7.05	21.60	46.00	-24.40	QP			
4	*	619.7600	37.37	-0.46	36.91	46.00	-9.09	QP			
5		829.2800	30.41	4.48	34.89	46.00	-11.11	QP			
6		997.0900	28.93	2.50	31.43	54.00	-22.57	QP			



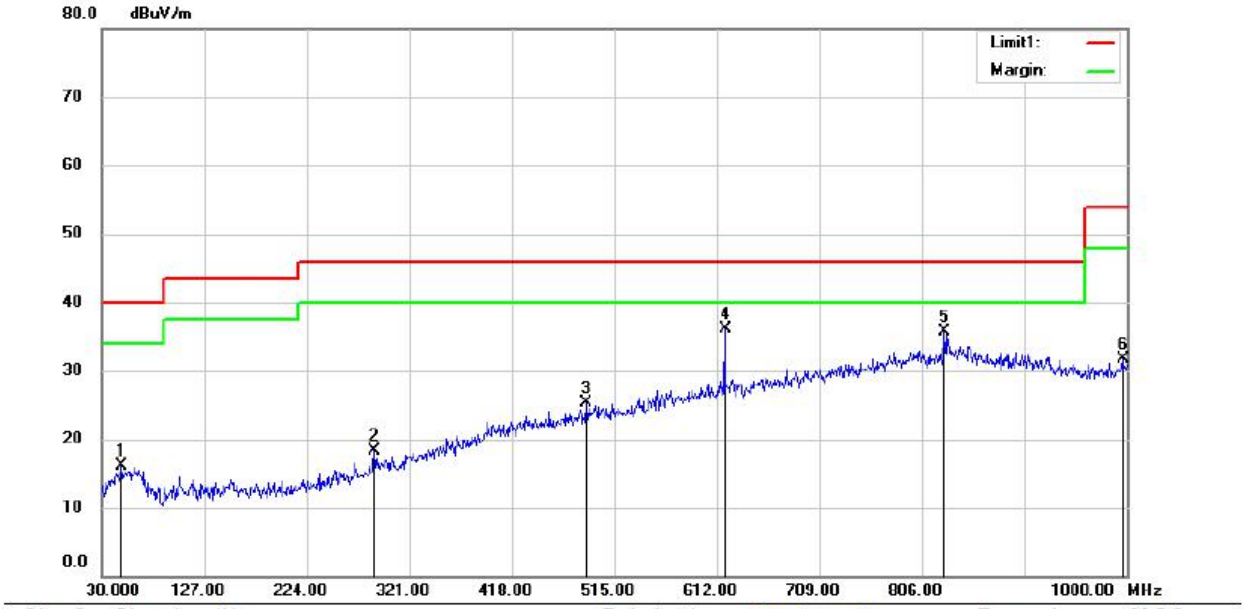
Site 3m Chamber #1 Polarization: *Vertical* Temperature: 29.5 C

Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 48 %

Mode:BT 2480MHz

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		48.4300	36.83	-12.12	24.71	40.00	-15.29	QP			
2		147.3700	31.27	-13.83	17.44	43.50	-26.06	QP			
3		392.7800	30.52	-6.35	24.17	46.00	-21.83	QP			
4	*	619.7600	36.95	-0.46	36.49	46.00	-9.51	QP			
5		846.7400	29.51	4.93	34.44	46.00	-11.56	QP			
6		992.2400	28.93	2.30	31.23	54.00	-22.77	QP			



Site 3m Chamber #1 Polarization: *Horizontal* Temperature: 29.5 C

Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 48 %

Mode:BT 2480MHz

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		48.4300	28.14	-12.12	16.02	40.00	-23.98	QP			
2		288.0200	28.97	-10.68	18.29	46.00	-27.71	QP			
3		487.8400	29.41	-4.11	25.30	46.00	-20.70	QP			
4	*	619.7600	36.48	-0.46	36.02	46.00	-9.98	QP			
5		827.3400	31.30	4.40	35.70	46.00	-10.30	QP			
6		996.1200	29.26	2.46	31.72	54.00	-22.28	QP			

9.8 CONDUCTED EMISSION TEST

9.8.1 Applicable Standard

According to FCC Part 15.207(a)

9.8.2 Conformance Limit

Conducted Emission Limit		
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50
Note: 1. The lower limit shall apply at the transition frequencies 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.		

9.8.3 Test Configuration

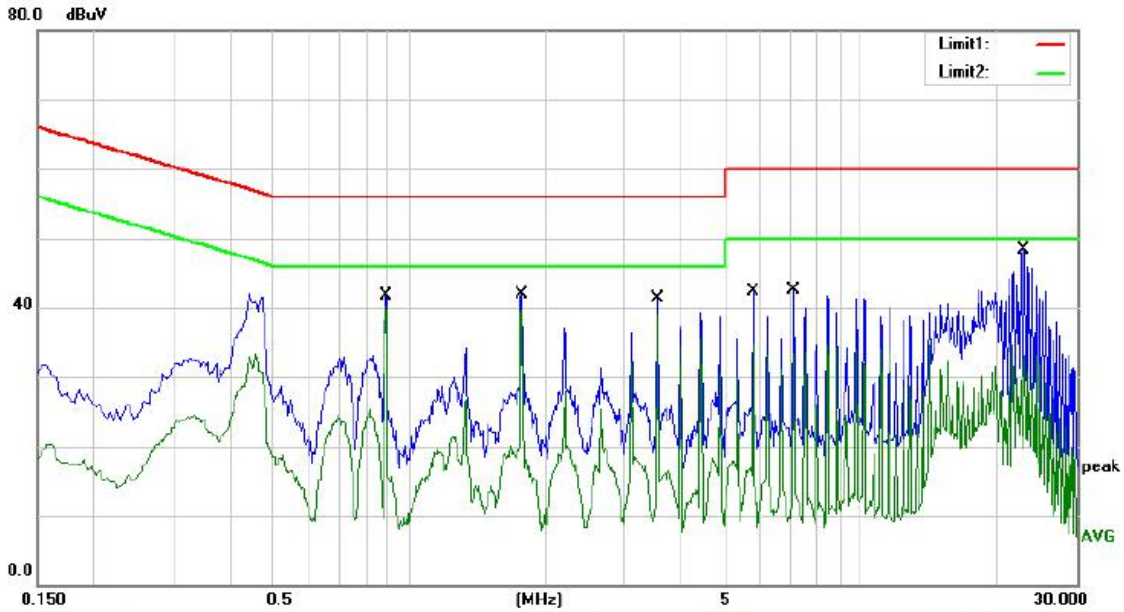
Test according to clause 7.3 conducted emission test setup

9.8.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Repeat above procedures until all frequency measured were complete.

9.8.5 Test Results

Pass



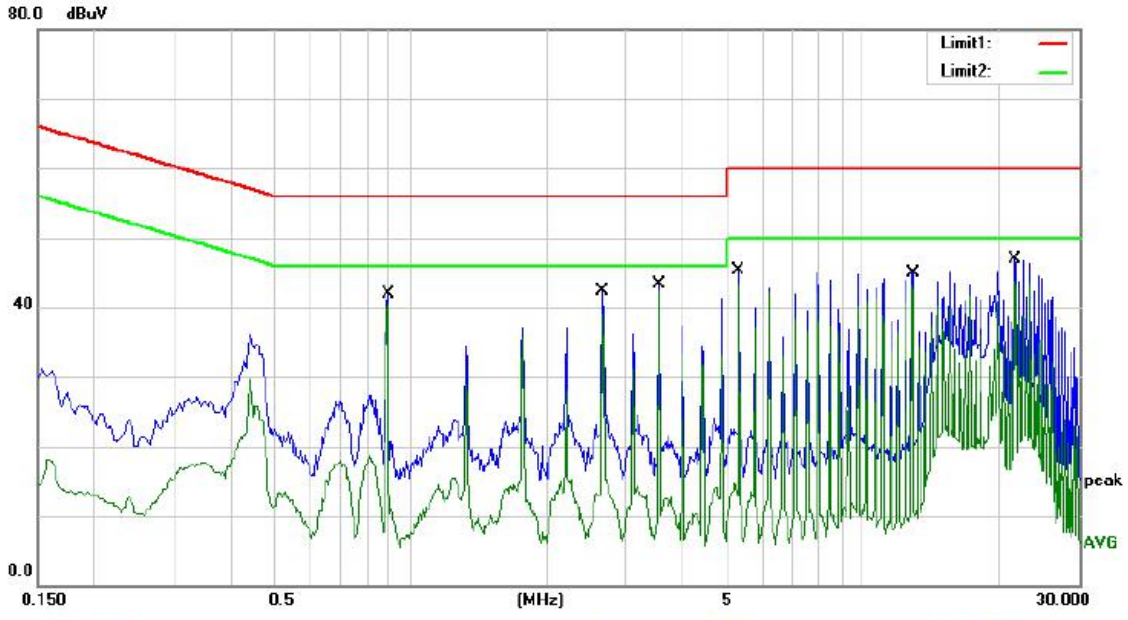
Site Conduction #1 Phase: N Temperature: 25.4

Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 54 %

Mode: BT mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.8860	32.07	9.59	41.66	56.00	-14.34	QP	
2	*	0.8860	30.49	9.59	40.08	46.00	-5.92	AVG	
3		1.7740	32.25	9.60	41.85	56.00	-14.15	QP	
4		1.7740	30.11	9.60	39.71	46.00	-6.29	AVG	
5		3.5460	31.74	9.63	41.37	56.00	-14.63	QP	
6		3.5460	29.38	9.63	39.01	46.00	-6.99	AVG	
7		5.7580	32.60	9.68	42.28	60.00	-17.72	QP	
8		5.7580	24.96	9.68	34.64	50.00	-15.36	AVG	
9		7.0860	32.78	9.71	42.49	60.00	-17.51	QP	
10		7.0860	23.68	9.71	33.39	50.00	-16.61	AVG	
11		23.0180	32.28	16.07	48.35	60.00	-11.65	QP	
12		23.0180	18.66	16.07	34.73	50.00	-15.27	AVG	



Site Conduction #1 Phase: L1 Temperature: 25.4

Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 54 %

Mode: BT mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.8900	32.36	9.59	41.95	56.00	-14.05	QP	
2		0.8900	30.79	9.59	40.38	46.00	-5.62	AVG	
3		2.6620	32.67	9.62	42.29	56.00	-13.71	QP	
4		2.6620	29.40	9.62	39.02	46.00	-6.98	AVG	
5		3.5460	33.77	9.63	43.40	56.00	-12.60	QP	
6	*	3.5460	32.60	9.63	42.23	46.00	-3.77	AVG	
7		5.3180	35.64	9.67	45.31	60.00	-14.69	QP	
8		5.3180	33.38	9.67	43.05	50.00	-6.95	AVG	
9		12.8540	29.19	15.71	44.90	60.00	-15.10	QP	
10		12.8540	27.44	15.71	43.15	50.00	-6.85	AVG	
11		21.7140	30.79	16.06	46.85	60.00	-13.15	QP	
12		21.7140	27.71	16.06	43.77	50.00	-6.23	AVG	

9.9 ANTENNA APPLICATION

9.9.1 Antenna Requirement

Standard	Requirement
FCC CRF 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. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

9.9.2 Result

PASS.

The EUT is PCB Antenna for BT, the gain is 0 dBi.

Note: ☒ Antenna use a permanently attached antenna which is not replaceable.
☐ Not using a standard antenna jack or electrical connector for antenna replacement
☐ The antenna has to be professionally installed (please provide method of installation)

which in accordance to section 15.203, please refer to the internal photos.

--------- END OF REPORT --------