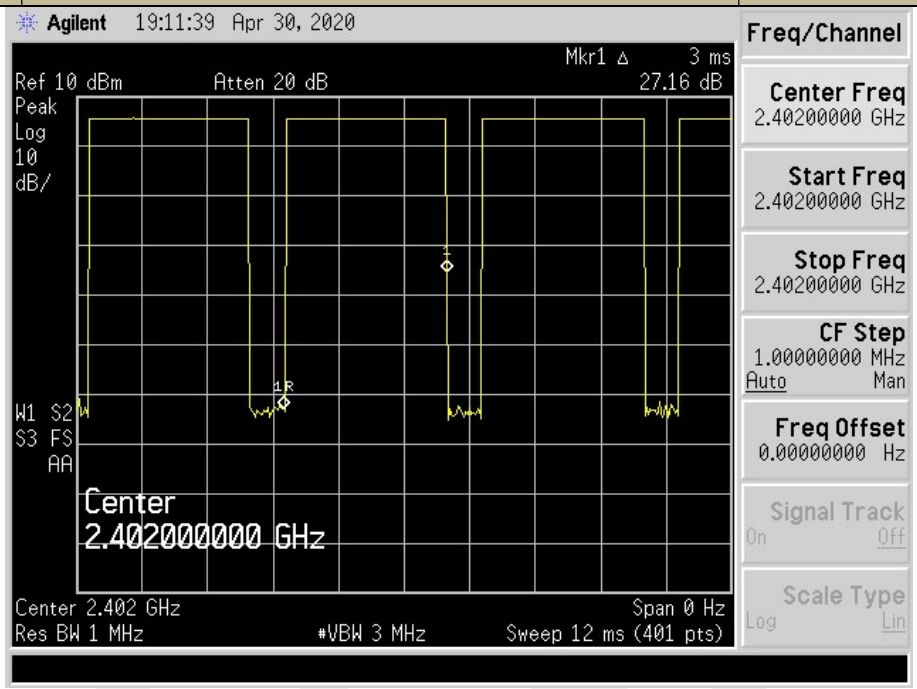
Test Model	Average Time Of Occupancy (Dwell Time)	
	CH 0: 2402MHz	GFSK DH5



9.5 MAXIMUM PEAK CONDUCTED OUTPUT POWER

9.5.1 Applicable Standard

According to FCC Part 15.247(b)(1) and 558074 D01 15.247 Meas Guidance V05r02

9.5.2 Conformance Limit

The max For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

9.5.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

9.5.4 Test Procedure

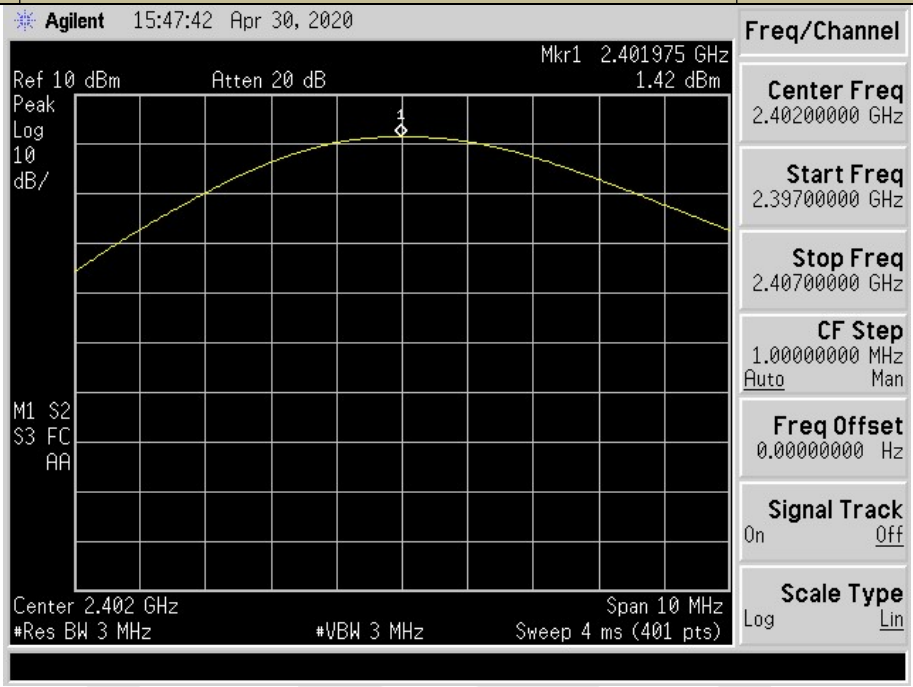
■ According to FCC Part15.247(b)(1)
As an alternative to a peak power measurement, compliance with the limit can be based on a measurement of the maximum conducted output power.
Use the following spectrum analyzer settings:
Set Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel(about 10MHz)
Set RBW > the 20 dB bandwidth of the emission being measured(about 3MHz)
Set VBW ≥ RBW
Set Sweep = auto
Set Detector function = peak
Set Trace = max hold
Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emissionto determine the peak amplitude level.

Test Results

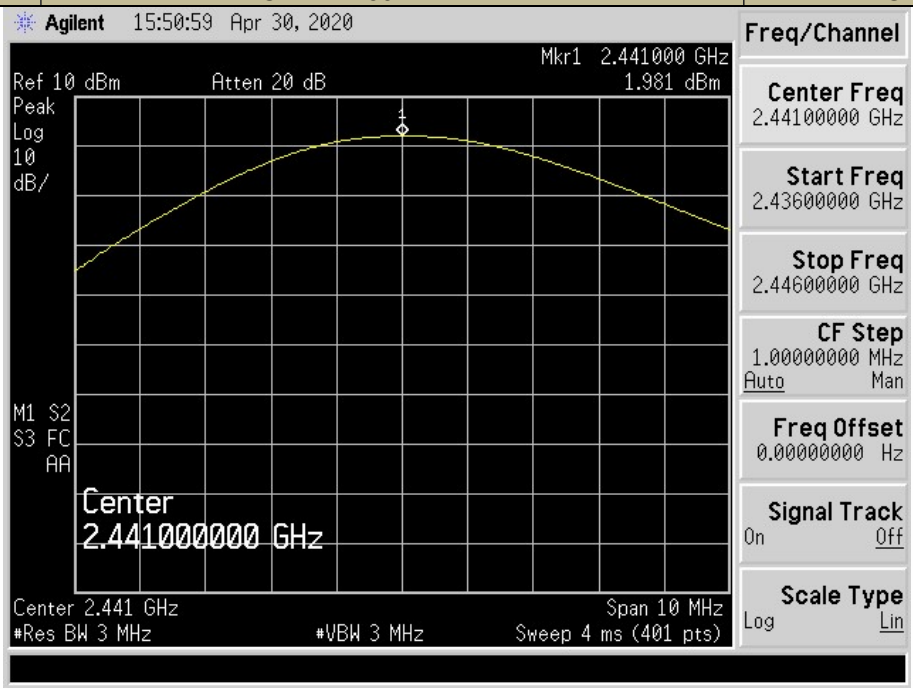
Temperature:	21℃	Test Date:	April 30, 2020
Humidity:	45 %	Test By:	XW

Operation Mode	Channel Number	Channel Frequency (MHz)	MeasurementLevel (dBm)	Limit (dBm)	Verdict
GFSK	0	2402	1.420	21	PASS
	39	2441	1.981	21	PASS
	78	2480	2.619	21	PASS
pi/4-DQPSK	0	2402	3.200	21	PASS
	39	2441	3.676	21	PASS
	78	2480	4.177	21	PASS
8DPSK	0	2402	3.364	21	PASS
	39	2441	3.823	21	PASS
	78	2480	4.382	21	PASS
Note:N/A					

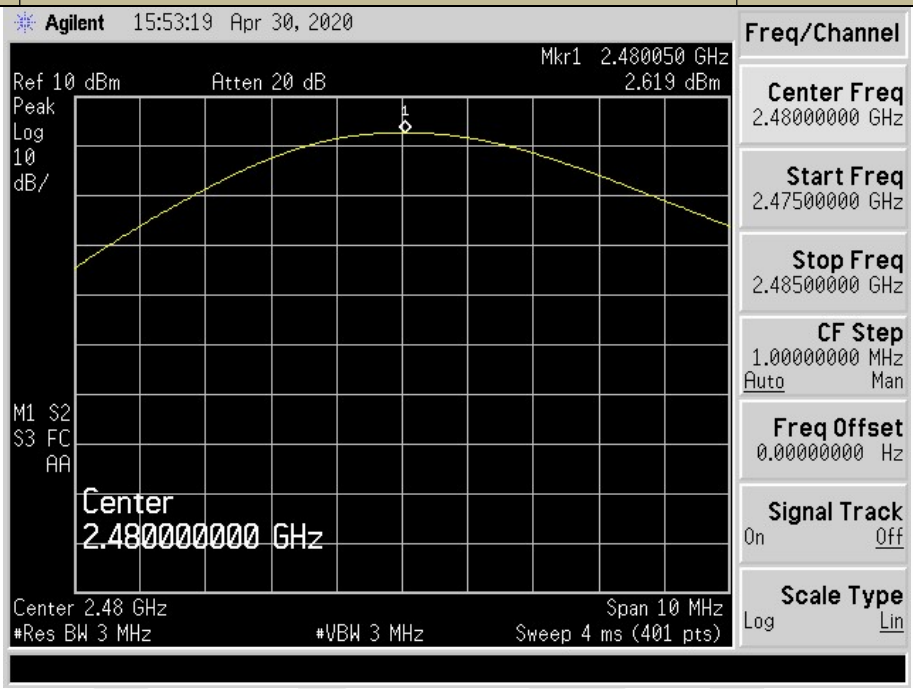
Test Model	Maximum PeakConducted Output Power	
	Channel 0: 2402MHz	GFSK



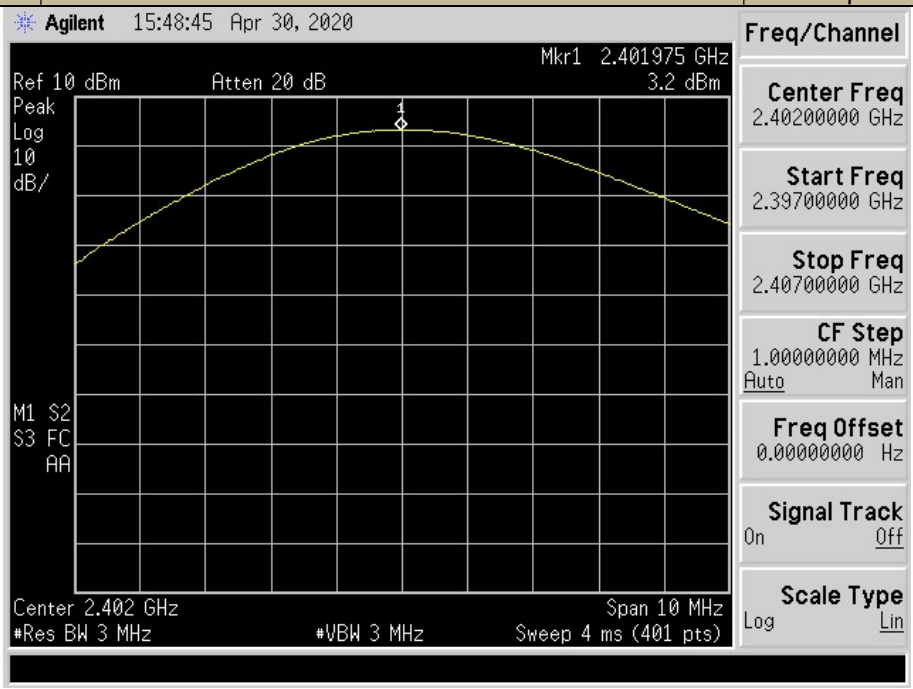
Test Model	Maximum PeakConducted Output Power	
	Channel 39: 2441MHz	GFSK



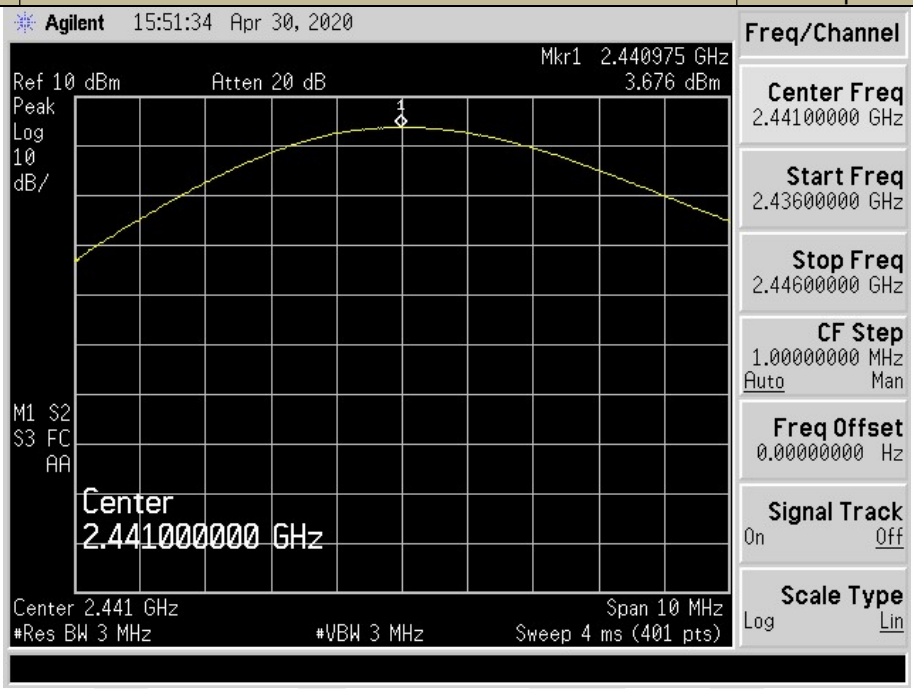
Test Model	Maximum PeakConducted Output Power	
	Channel 78: 2480MHz	GFSK



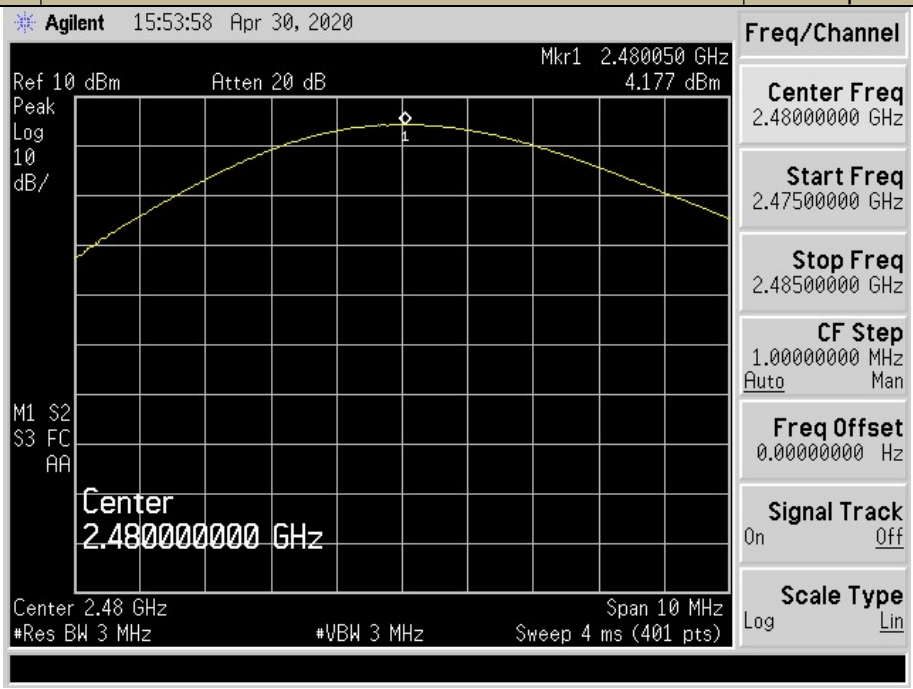
Test Model	Maximum PeakConducted Output Power	
	Channel 0: 2402MHz	pi/4-DQPSK



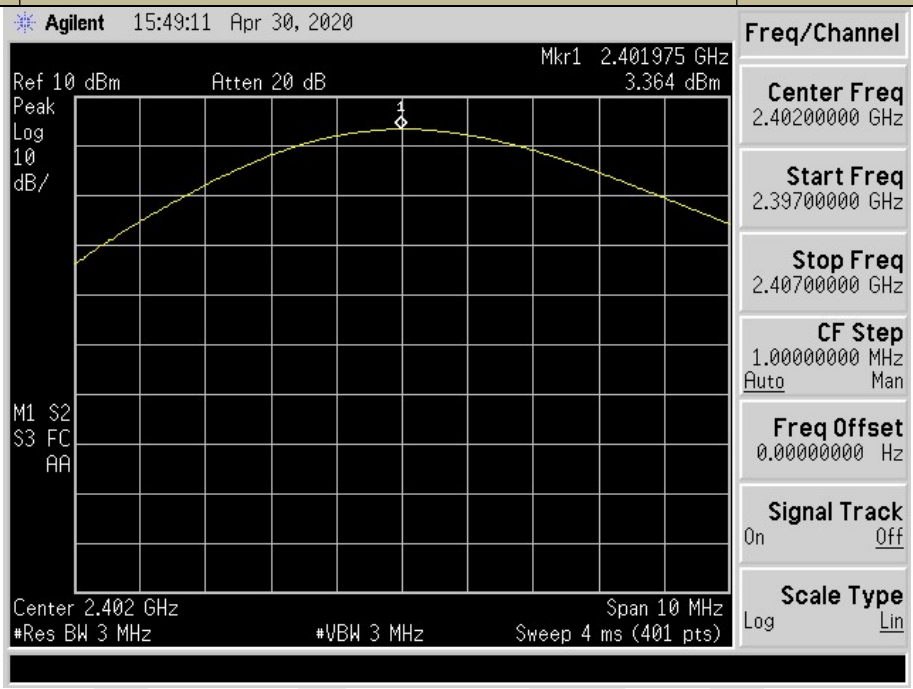
Test Model	Maximum PeakConducted Output Power	
	Channel 39: 2441MHz	pi/4-DQPSK



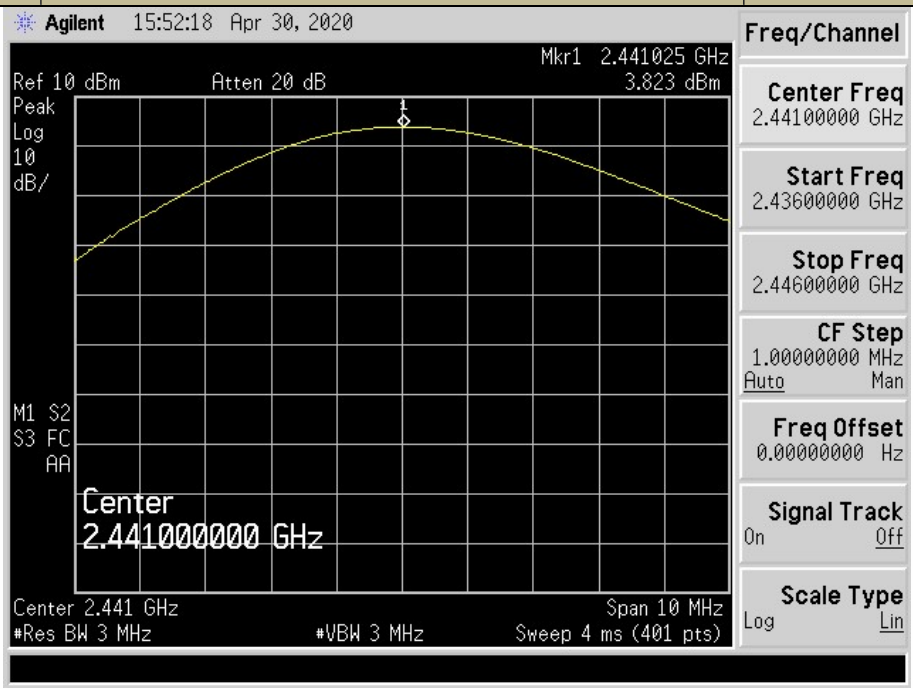
Test Model	Maximum PeakConducted Output Power	
	Channel 78: 2480MHz	pi/4-DQPSK



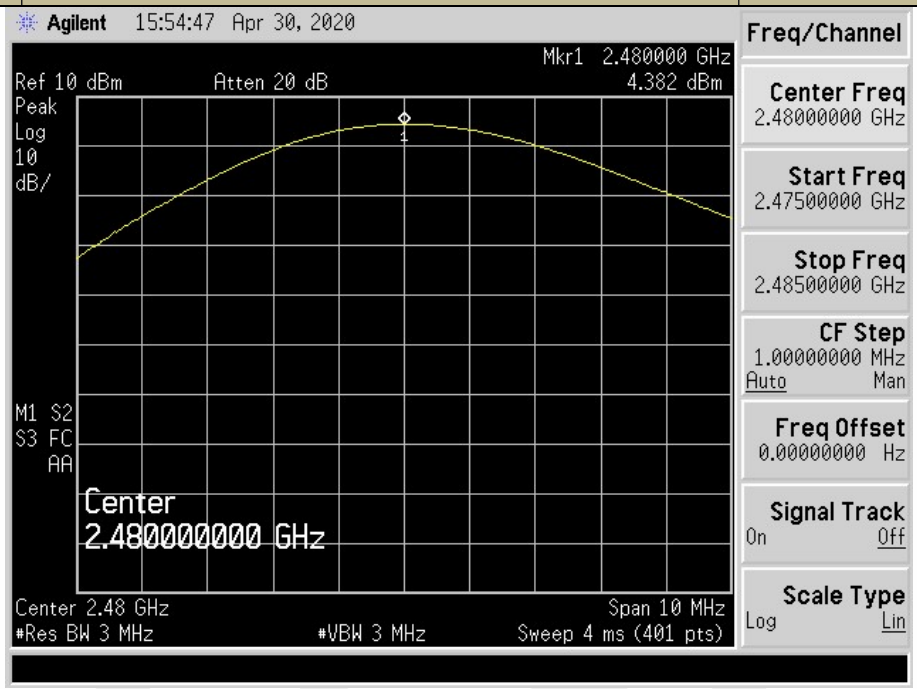
Test Model	Maximum PeakConducted Output Power	
	Channel 0: 2402MHz	8DPSK



Test Model	Maximum PeakConducted Output Power	
	Channel 39: 2441MHz	8DPSK



Test Model	Maximum PeakConducted Output Power	
	Channel 78: 2480MHz	8DPSK



9.6 CONDUCTED SUPRIOUS EMISSION

9.6.1 Applicable Standard

According to FCC Part 15.247(d) and 558074 D01 15.247 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 Maximumconducetedlevel.
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=100kHzSet VBW ≥ RBW
Set Sweep = autoSetDetector function = peakSetTrace = 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.

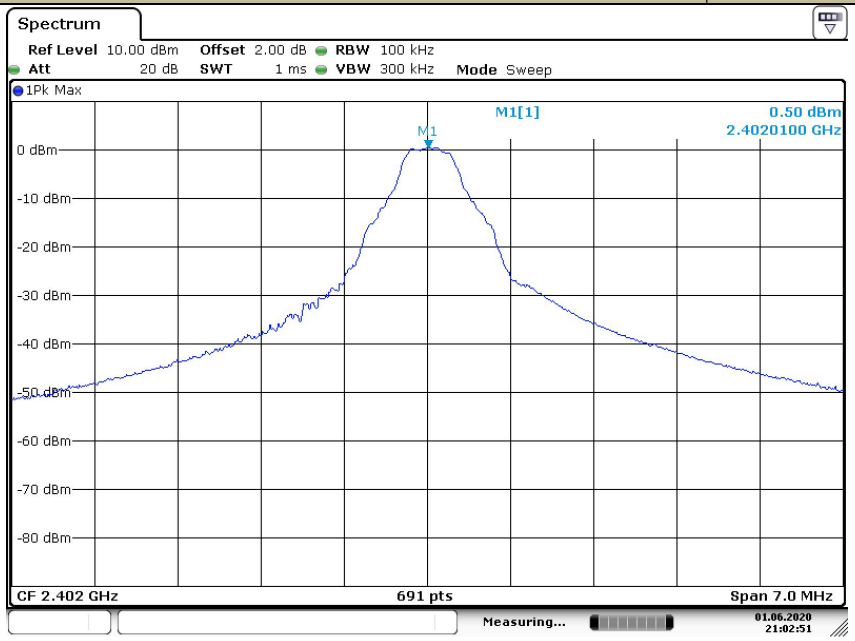
- **ConducetedSpurious RF Conducted Emission**

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 kHzSetVBW≥ RBW
Set Sweep = autoSetDetector function = peakSetTrace = 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.

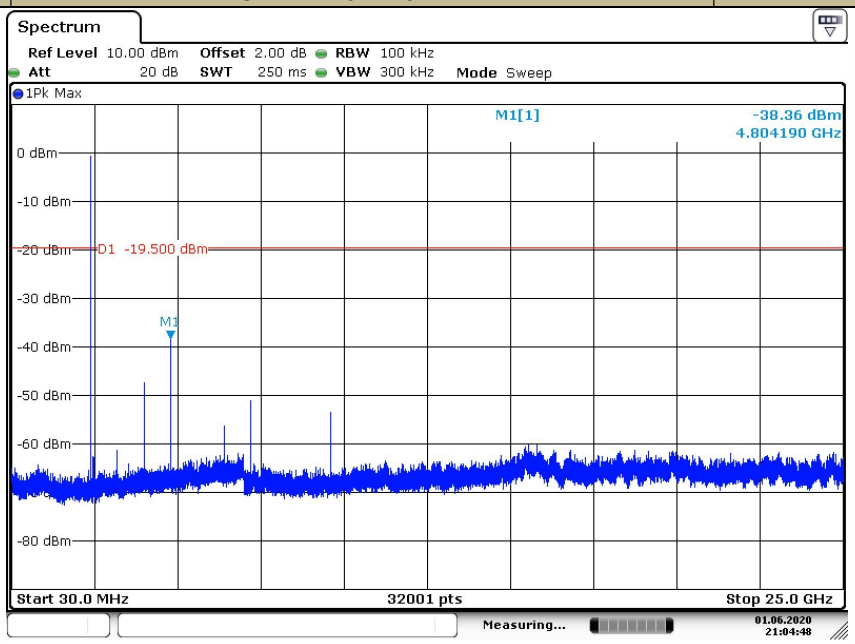
9.6.5 Test Results

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

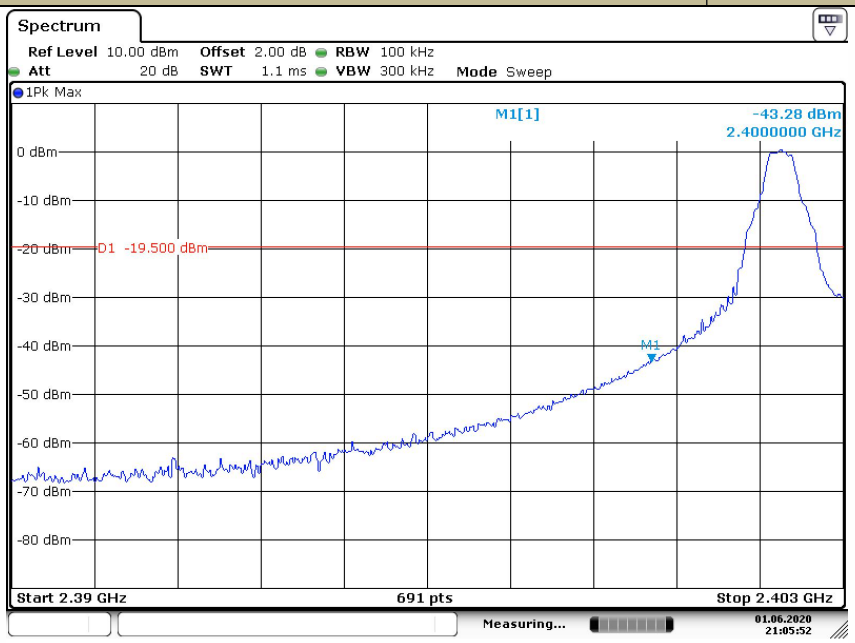
Test Model	Maximum Conduceted Level RBW=100kHz	
	Channel 0: 2402MHz	GFSK



Test Model	ConducetedSpurious RF Conducted Emission	
	Channel 0: 2402MHz	GFSK

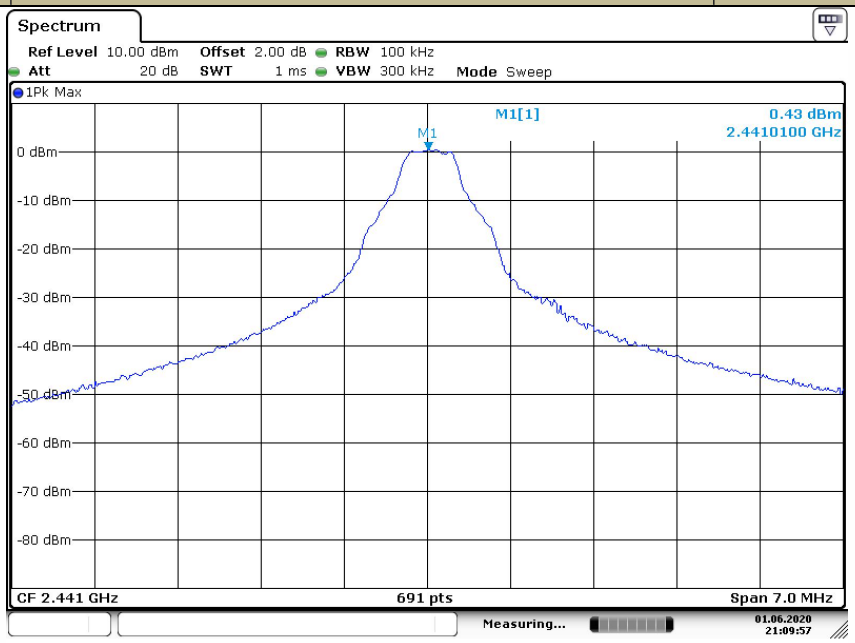


Test Model	Band-edge Conducted Emissions	
	Channel 0: 2402MHz	GFSK



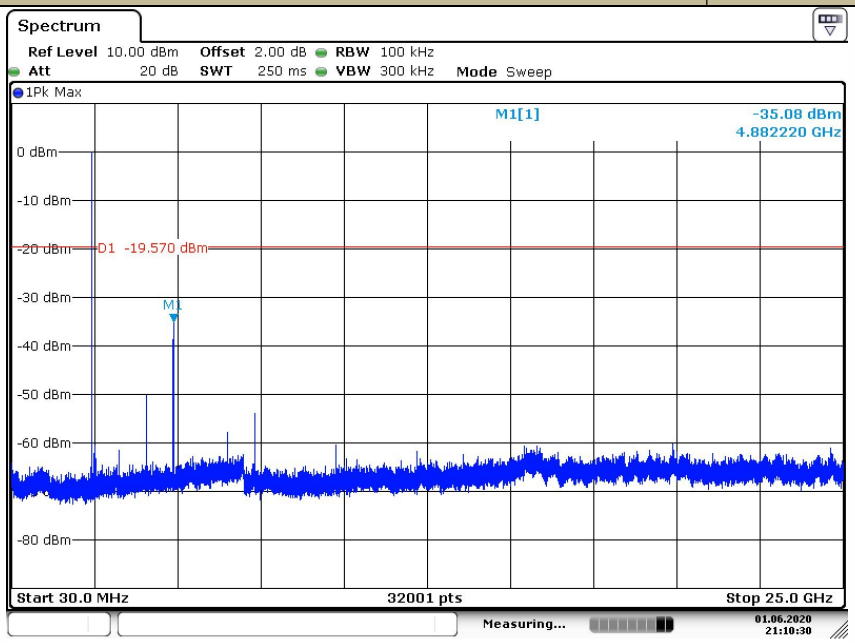
Date: 1.JUN.2020 21:05:52

Test Model	Maximum Conduceted Level RBW=100kHz	
	Channel 39: 2441MHz	GFSK



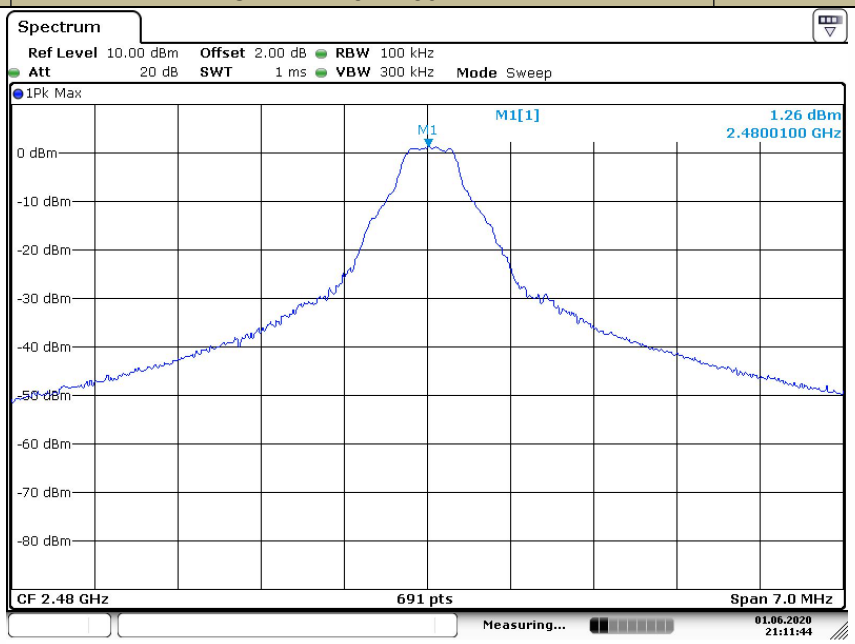
Date: 1.JUN.2020 21:09:57

Test Model	ConducetedSpurious RF Conducted Emission	
	Channel 39: 2441MHz	GFSK



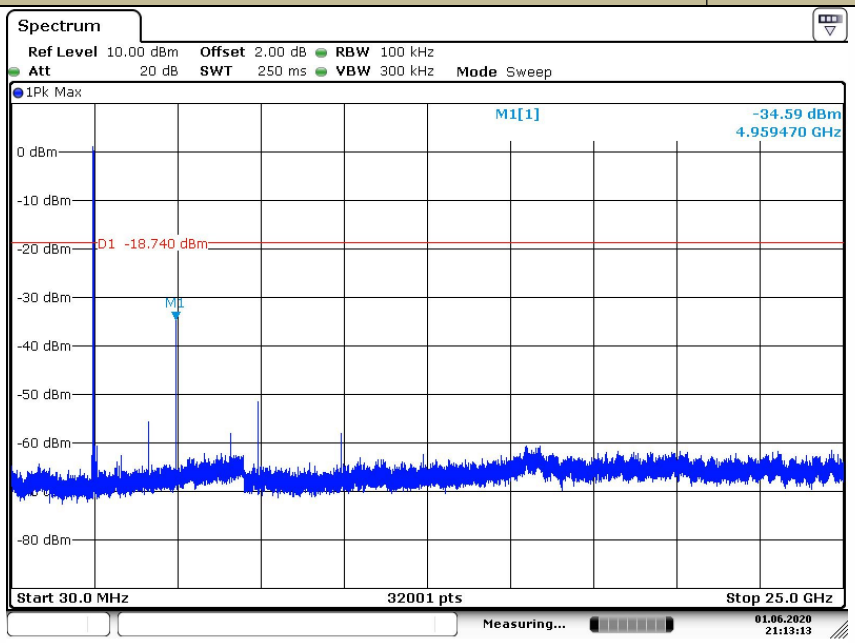
Date: 1.JUN.2020 21:10:30

Test Model	Maximum Conducted Level RBW=100kHz	
	Channel 78: 2480MHz	GFSK



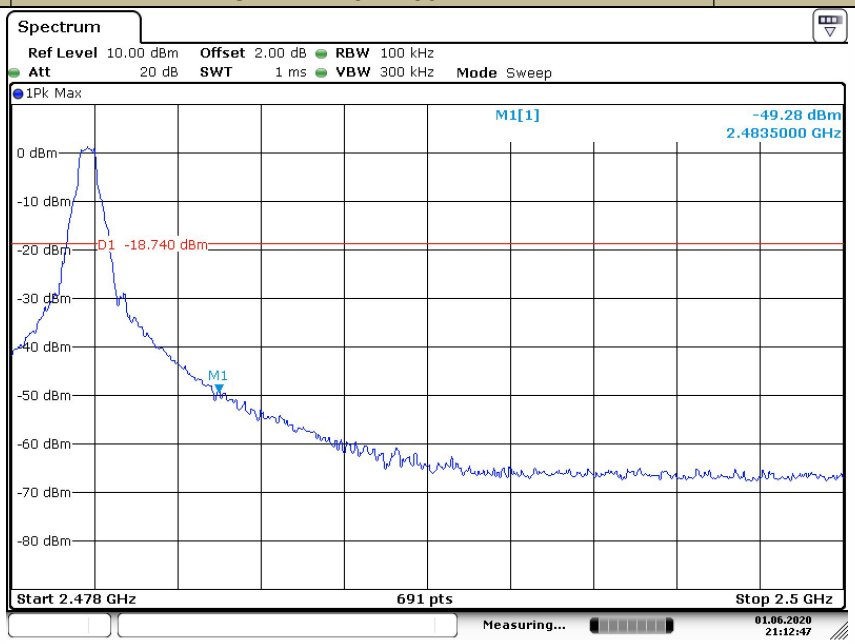
Date: 1.JUN.2020 21:11:44

Test Model	ConducetedSpurious RF Conducted Emission	
	Channel 78: 2480MHz	GFSK



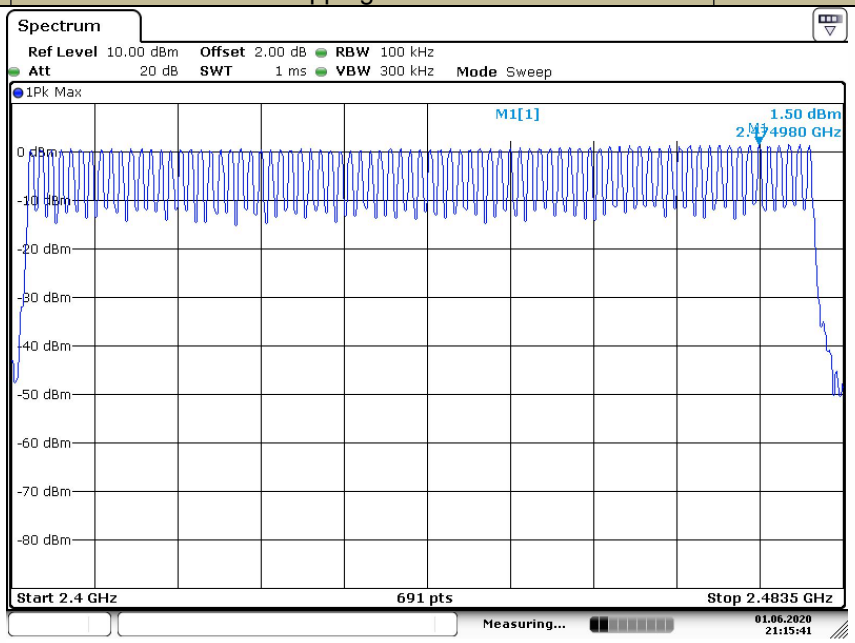
Date: 1.JUN.2020 21:13:13

Test Model	Band-edge Conducted Emissions	
	Channel 78: 2480MHz	GFSK



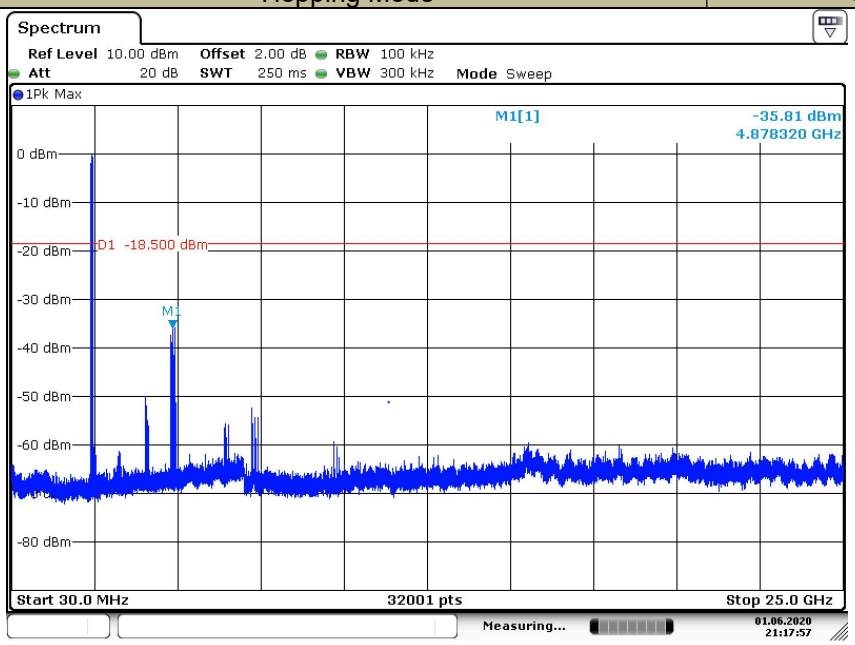
Date: 1.JUN.2020 21:12:47

Test Model	Maximum Conduceted Level RBW=100kHz	
	Hopping Mode	GFSK



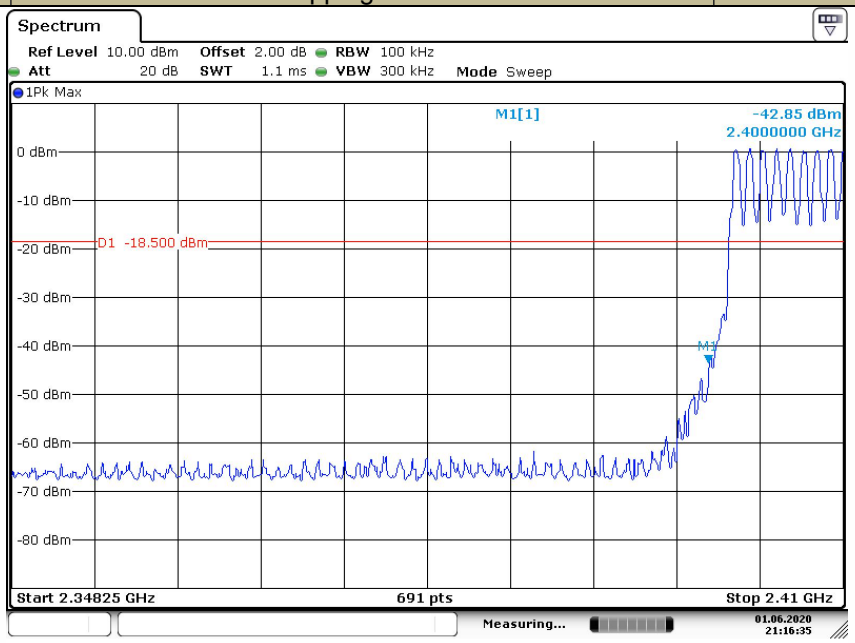
Date: 1.JUN.2020 21:15:41

Test Model	ConducetedSpurious RF Conducted Emission	
	Hopping Mode	GFSK

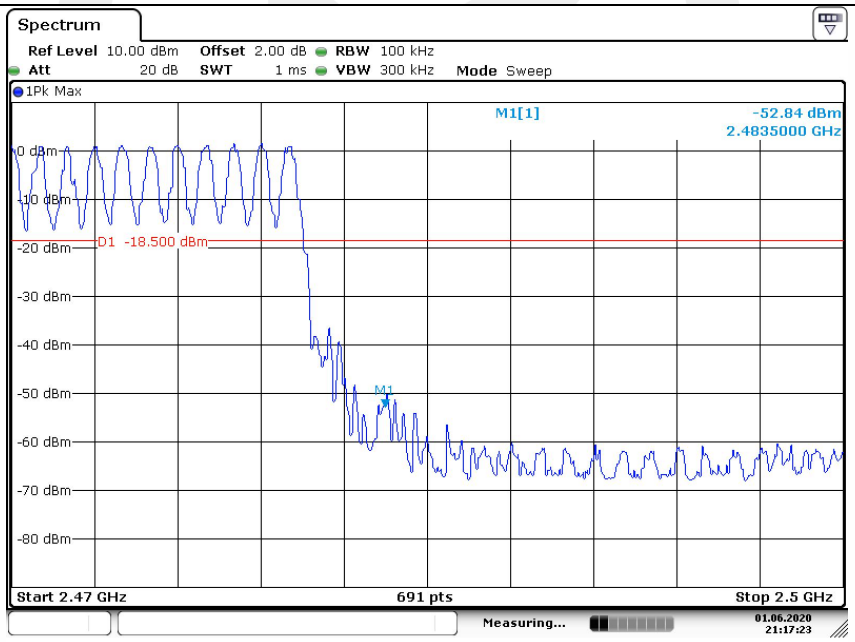


Date: 1.JUN.2020 21:17:57

Test Model	Band-edge Conducted Emissions	
	Hopping Mode	GFSK



Date: 1.JUN.2020 21:16:34



Date: 1.JUN.2020 21:17:23

9.7 RADIATED SPURIOUS EMISSION

9.7.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and 558074 D01 15.247 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 Part15.209,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:
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 = 1 MHz for f ≥ 1 GHz(1GHz to 25GHz), 100 kHz for f < 1 GHz(30MHz to 1GHz)
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold

Follow the guidelines in ANSI C63.10-2013 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:	18℃	Test Date:	April 12, 2020
Humidity:	42 %	Test By:	KK
Test mode:	TX Mode		

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	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, non hopping) mode have been tested, and the worst result(GFSK)was report as below:

Temperature:	18℃	Test Date:	April 12, 2020
Humidity:	42 %	Test By:	KK
Test mode:	GFSK	Frequency:	Channel 0: 2402MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4803.75	V	51.15	37.90	74.00	54.00	-22.85	-16.10
7195.65	V	51.73	36.70	74.00	54.00	-22.27	-17.30
7907.95	V	53.81	38.80	74.00	54.00	-20.19	-15.20
9803.45	V	56.31	38.30	74.00	54.00	-17.69	-15.70
10504.70	V	57.73	39.70	74.00	54.00	-16.27	-14.30
17716.95	V	62.88	39.90	74.00	54.00	-11.12	-14.10
4803.75	H	53.38	38.92	74.00	54.00	-20.62	-15.08
7583.25	H	52.23	38.20	74.00	54.00	-21.77	-15.80
7896.90	H	51.59	37.30	74.00	54.00	-22.41	-16.70
9481.30	H	56.01	36.20	74.00	54.00	-17.99	-17.80
12730.85	H	58.30	36.10	74.00	54.00	-15.70	-17.90
17261.35	H	62.26	39.60	74.00	54.00	-11.74	-14.40

Temperature:	18℃	Test Date:	April 12, 2020
Humidity:	42 %	Test By:	KK
Test mode:	GFSK	Frequency:	Channel 39: 2441MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4881.10	V	52.78	37.70	74.00	54.00	-21.22	-16.30
7964.90	V	53.55	39.60	74.00	54.00	-20.45	-14.40
9666.60	V	56.58	38.90	74.00	54.00	-17.42	-15.10
11139.65	V	58.00	39.60	74.00	54.00	-16.00	-14.40
13298.65	V	58.11	40.00	74.00	54.00	-15.89	-14.00
16890.75	V	62.17	39.20	74.00	54.00	-11.83	-14.80
4881.95	H	54.19	46.00	74.00	54.00	-19.81	-8.00
8401.80	H	53.91	43.90	74.00	54.00	-20.09	-10.10
9421.80	H	55.99	45.60	74.00	54.00	-18.01	-8.40
10522.55	H	56.91	43.60	74.00	54.00	-17.09	-10.40
11570.60	H	57.19	45.30	74.00	54.00	-16.81	-8.70
12400.20	H	58.30	43.20	74.00	54.00	-15.70	-10.80

Temperature:	18℃	Test Date:	April 12, 2020
Humidity:	42 %	Test By:	KK
Test mode:	GFSK	Frequency:	Channel 78: 2480MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4959.30	V	50.24	36.90	74.00	54.00	-23.76	-17.10
7607.90	V	53.54	37.80	74.00	54.00	-20.46	-16.20
9614.75	V	56.34	38.20	74.00	54.00	-17.66	-15.80
11075.90	V	57.77	37.70	74.00	54.00	-16.23	-16.30
13955.70	V	59.12	38.20	74.00	54.00	-14.88	-15.80
17690.60	V	62.73	38.30	74.00	54.00	-11.27	-15.70
4959.30	H	48.73	38.70	74.00	54.00	-25.27	-15.30
7125.10	H	52.16	42.10	74.00	54.00	-21.84	-11.90
8192.70	H	53.91	43.50	74.00	54.00	-20.09	-10.50
9653.00	H	56.52	41.20	74.00	54.00	-17.48	-12.80
11959.90	H	58.50	43.20	74.00	54.00	-15.50	-10.80
16954.50	H	62.13	41.90	74.00	54.00	-11.87	-12.10

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average 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.

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

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

Temperature:	24℃	Test Date:	April 12, 2020
Humidity:	55%	Test By:	XW
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)
2360.128	H	51.78	74	-22.22	37.90	54	-16.10
2329.320	V	52.12	74	-21.88	38.40	54	-15.60

Temperature:	24℃	Test Date:	April 12, 2020
Humidity:	55%	Test By:	XW
Test mode:	GFSK	Frequency:	Channel 78: 2480MHz

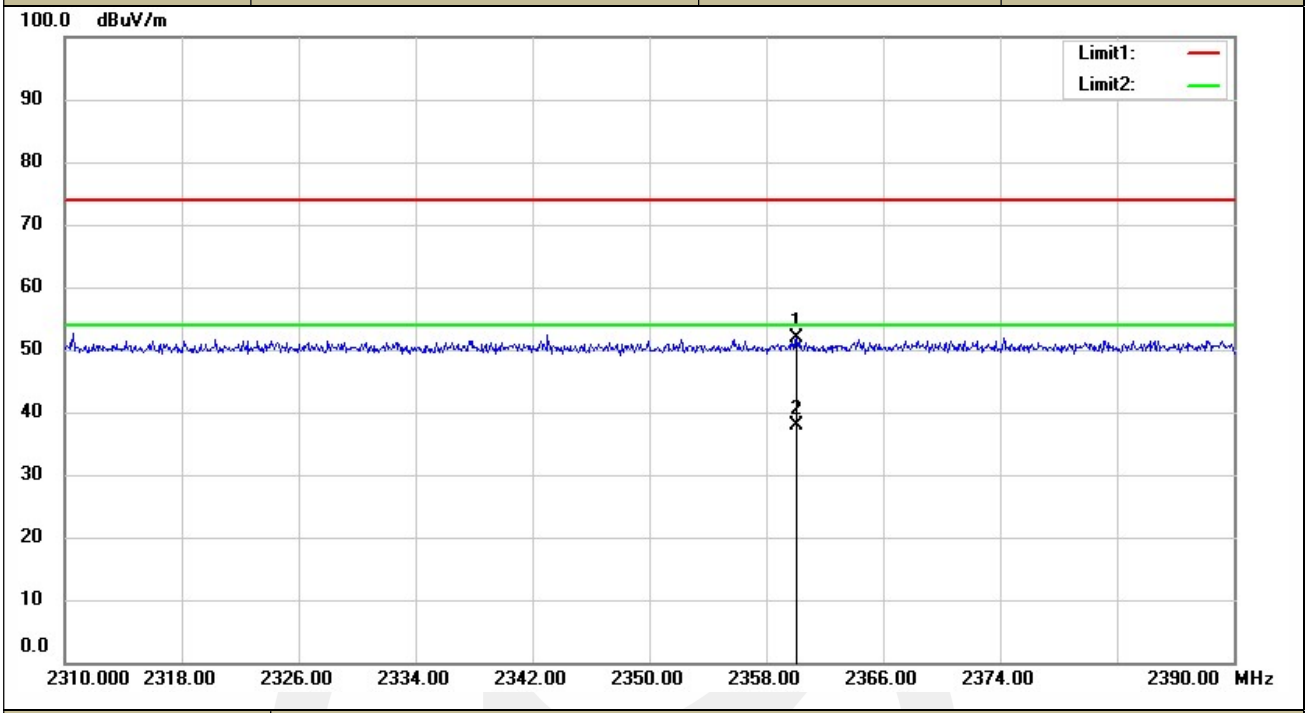
Frequency (MHz)	Polarity H/V	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	Over(dB)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)	Over (dB)
2496.690	H	52.09	74	-21.91	38.90	54	-15.10
2494.144	V	52.65	74	-21.35	39.10	54	-14.90

Temperature:	24℃	Test Date:	April 12, 2020
Humidity:	55%	Test By:	XW
Test mode:	GFSK	Frequency:	Hopping

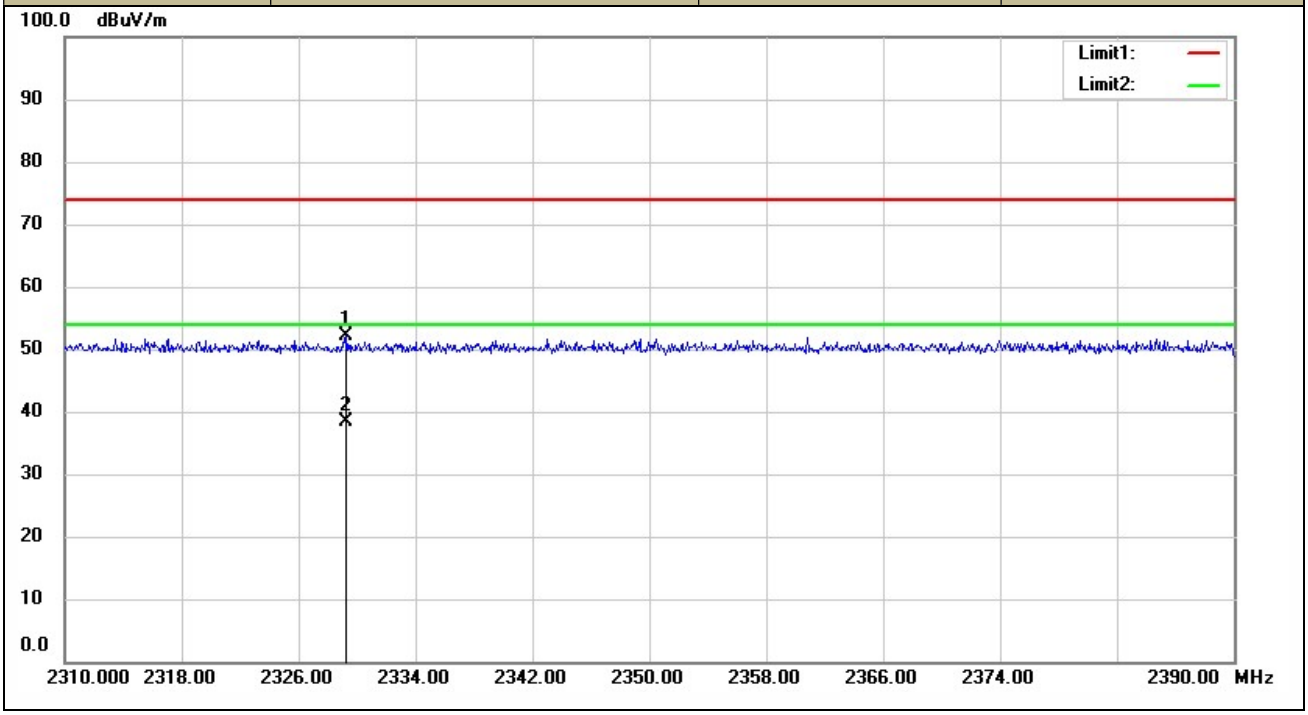
Frequency (MHz)	Polarity H/V	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	Over(dB)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)	Over (dB)
2390.00	H	50.20	74.00	-23.80	36.20	54.00	-17.80
2483.50	H	50.53	74.00	-23.47	35.60	54.00	-18.40
2390.00	V	49.92	74.00	-24.08	34.90	54.00	-19.10
2483.50	V	50.73	74.00	-23.27	35.70	54.00	-18.30

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average 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.

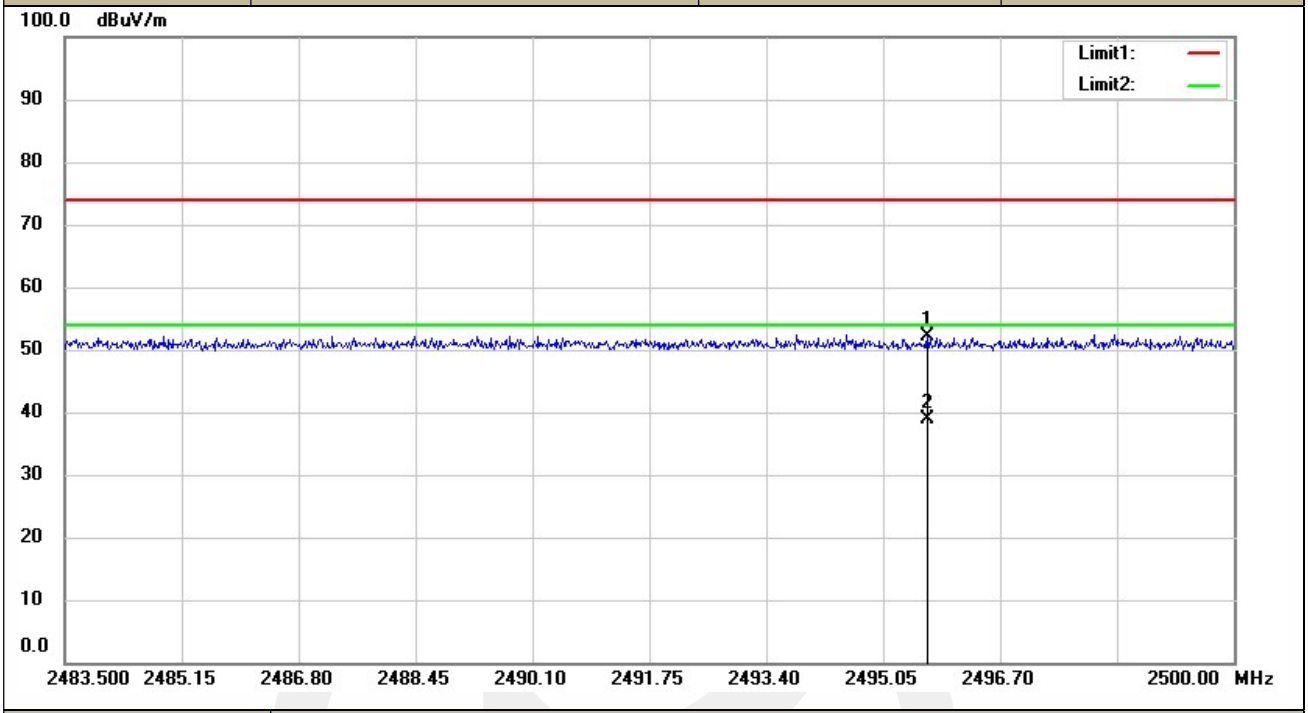
Test Model	Spurious Emission in Restricted Band 2310-2390MHz		
	Channel 0: 2402MHz	GFSK	H



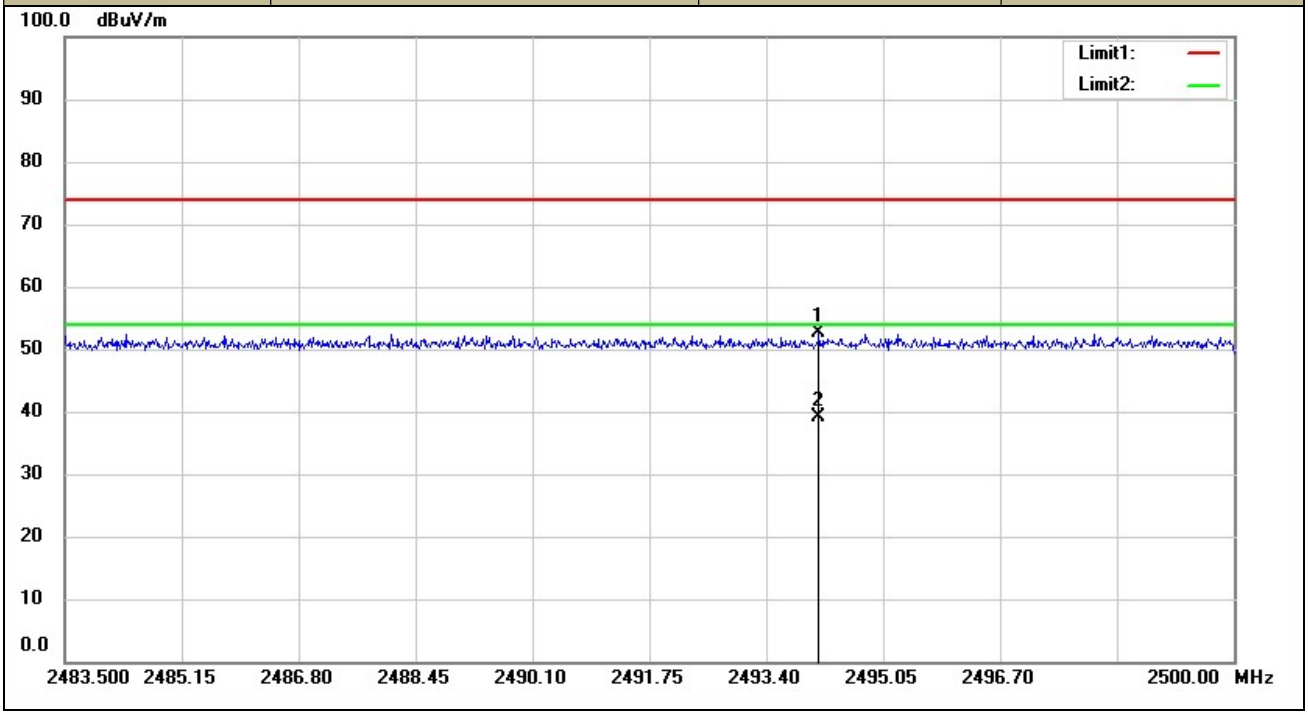
Test Model	Spurious Emission in Restricted Band 2310-2390MHz		
	Channel 0: 2402MHz	GFSK	V



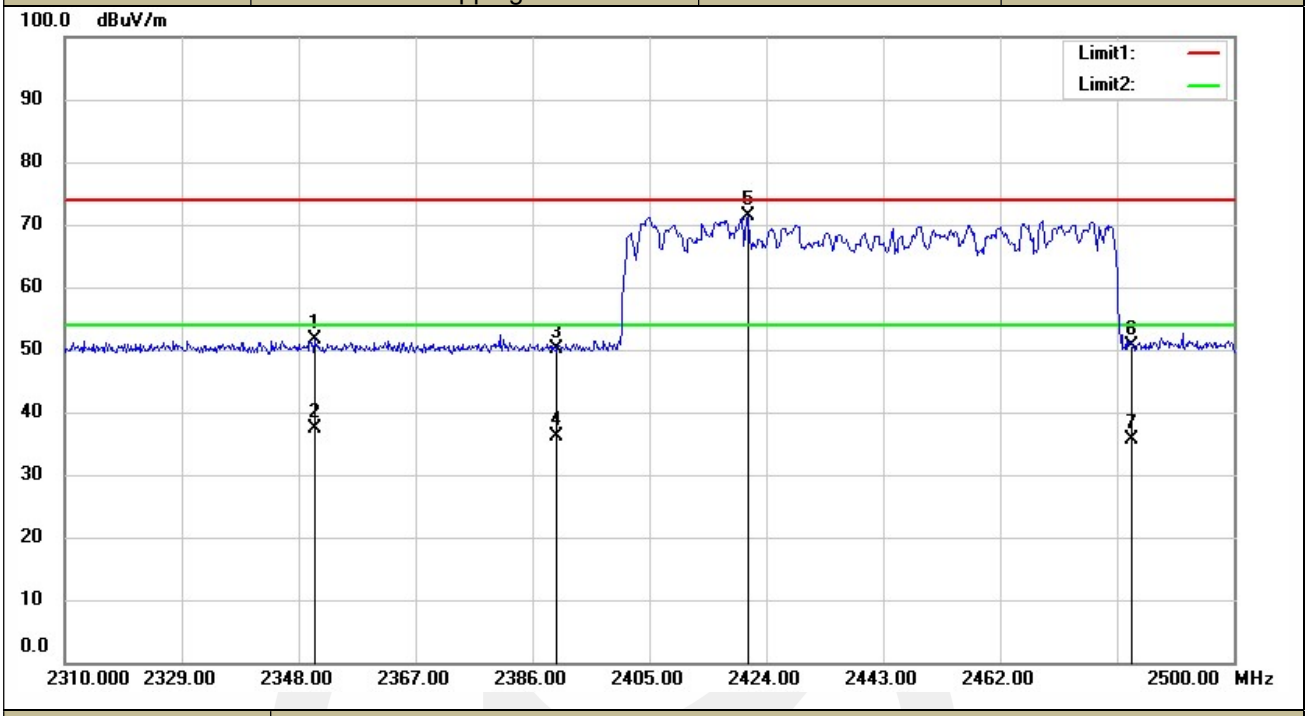
Test Model	Spurious Emission in Restricted Band 2483.5-2500MHz		
	Channel 78: 2480MHz	GFSK	H



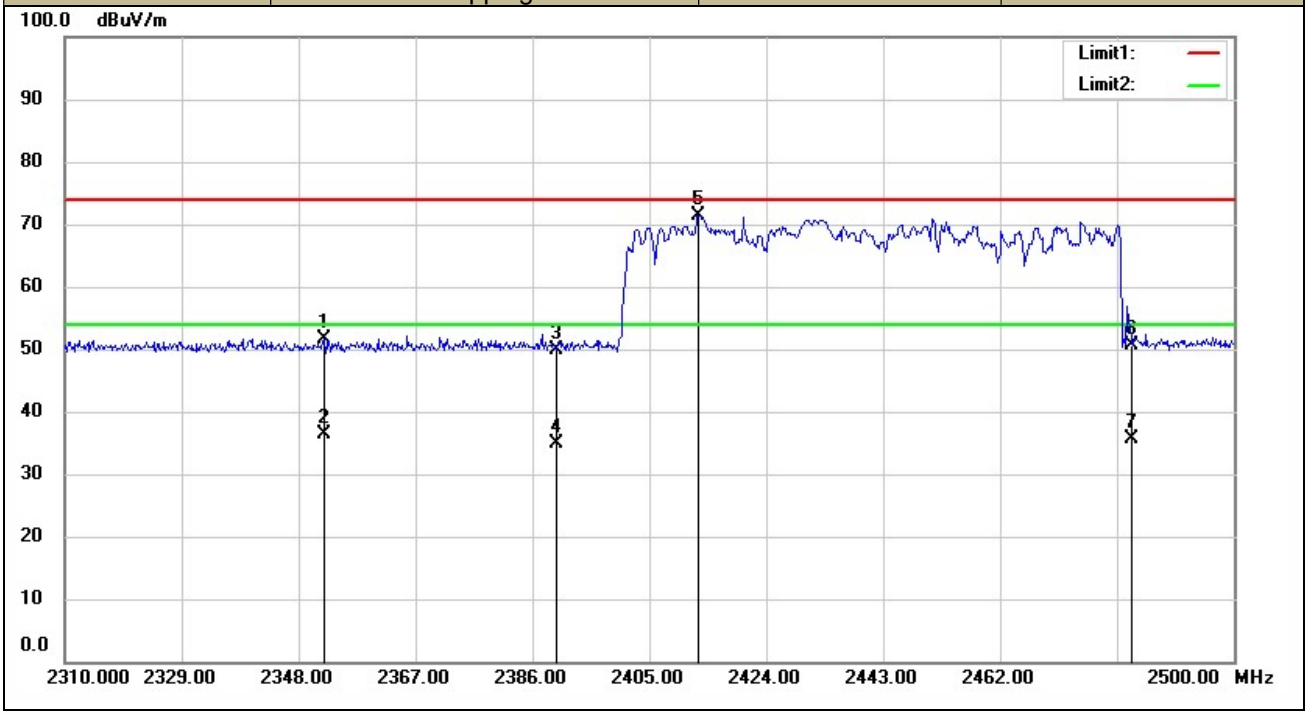
Test Model	Spurious Emission in Restricted Band 2483.5-2500MHz		
	Channel 78: 2480MHz	GFSK	V



Test Model	Spurious Emission in Restricted Band 2310-2390&2483.5-2500MHz		
	Hopping	GFSK	H

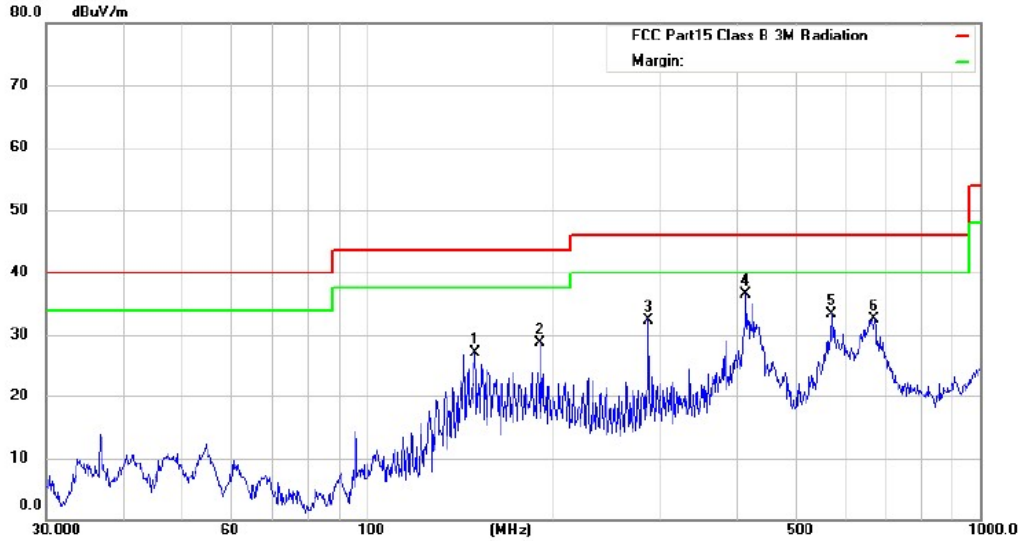


Test Model	Spurious Emission in Restricted Band2310-2390&2483.5-2500MHz		
	Hopping	GFSK	V



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

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



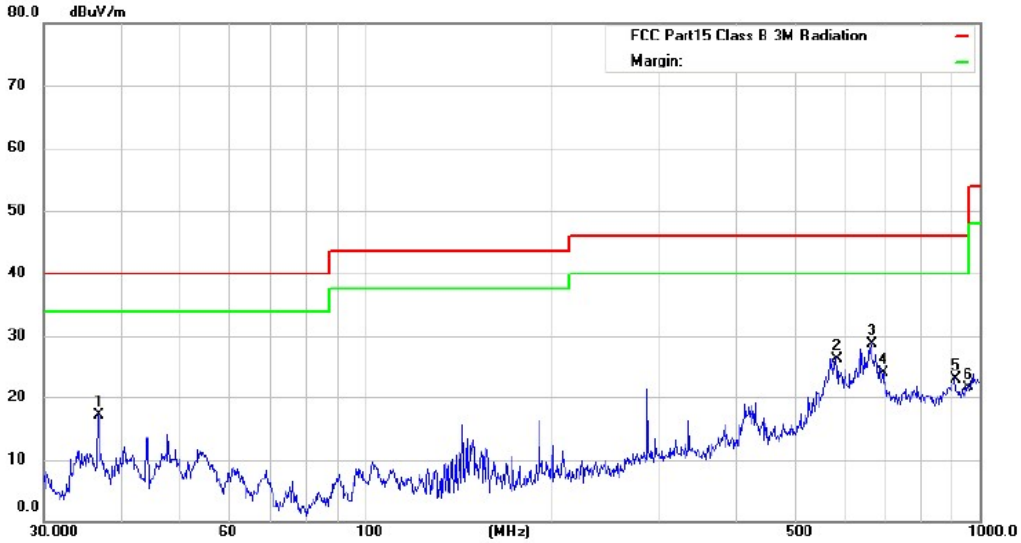
Site Radiated Emission 3m #1 Polarization: *Horizontal* Temperature: 24

Limit: FCC Part15.209 Power: DC 3.7V Humidity: 55 %

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		150.0108	53.33	-26.23	27.10	43.50	-16.40	QP			
2		191.7450	52.08	-23.38	28.70	43.50	-14.80	QP			
3		287.9904	52.97	-20.57	32.40	46.00	-13.60	QP			
4	*	414.7223	54.50	-18.00	36.50	46.00	-9.50	QP			
5		570.6100	46.74	-13.44	33.30	46.00	-12.70	QP			
6		668.1423	45.98	-13.48	32.50	46.00	-13.50	QP			



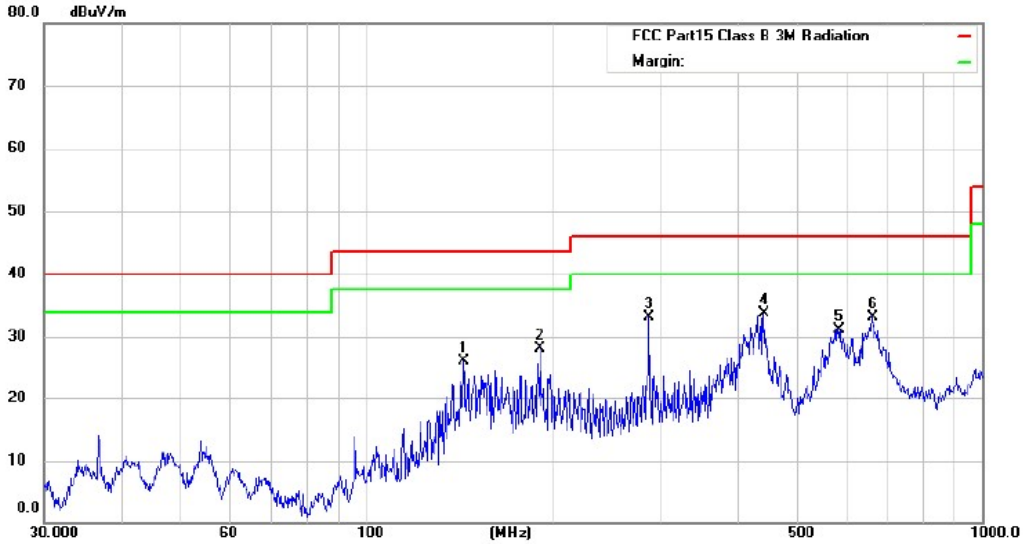
Site Radiated Emission 3m #1 Polarization: *Vertical* Temperature: 24

Limit: FCC Part15.209 Power: DC 3.7V Humidity: 55 %

Mode:BT 2402MHz

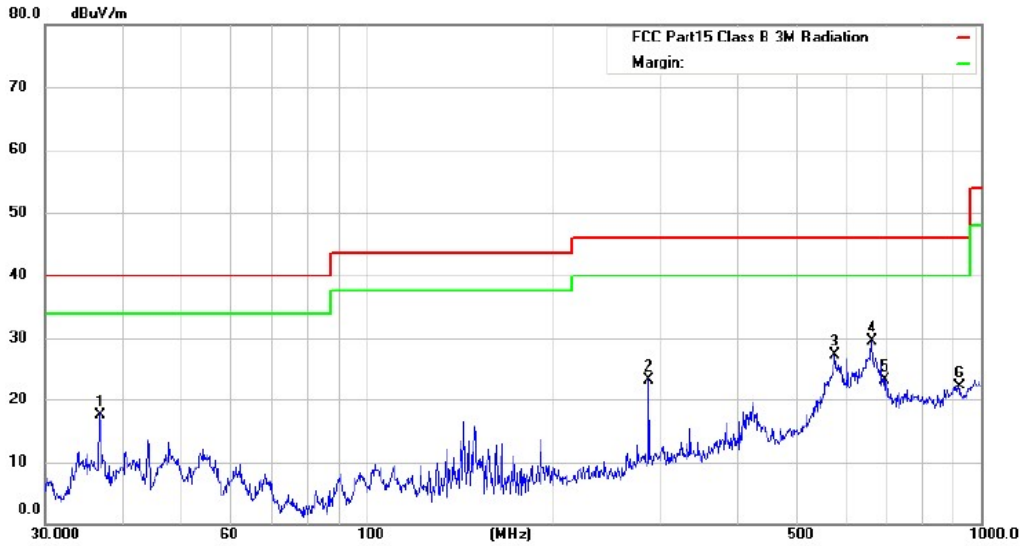
Note:

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		36.7662	40.70	-23.50	17.20	40.00	-22.80	QP			
2		582.7425	39.38	-12.98	26.40	46.00	-19.60	QP			
3	*	663.4729	41.98	-13.18	28.80	46.00	-17.20	QP			
4		694.4174	36.37	-12.27	24.10	46.00	-21.90	QP			
5		909.6667	30.85	-7.65	23.20	46.00	-22.80	QP			
6		955.4381	29.94	-8.14	21.80	46.00	-24.20	QP			



Site Radiated Emission 3m #1 Polarization: *Horizontal* Temperature: 24
Limit: FCC Part15.209 Power: DC 3.7V Humidity: 55 %
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		143.8295	53.68	-27.58	26.10	43.50	-17.40	QP			
2		191.7450	51.58	-23.38	28.20	43.50	-15.30	QP			
3		287.9904	53.67	-20.57	33.10	46.00	-12.90	QP			
4	*	440.1963	51.80	-18.00	33.80	46.00	-12.20	QP			
5		582.7425	44.18	-12.98	31.20	46.00	-14.80	QP			
6		661.1505	46.22	-13.02	33.20	46.00	-12.80	QP			



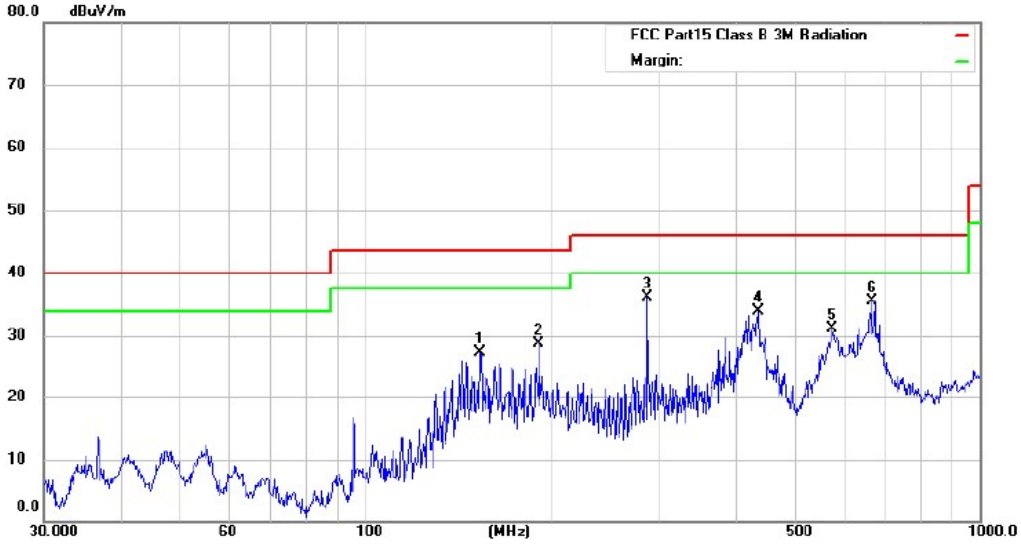
Site Radiated Emission 3m #1 Polarization: *Vertical* Temperature: 24

Limit: FCC Part15.209 Power: DC 3.7V Humidity: 55 %

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		36.7662	41.10	-23.50	17.60	40.00	-22.40	QP			
2		287.9904	43.87	-20.57	23.30	46.00	-22.70	QP			
3		576.6443	40.35	-13.05	27.30	46.00	-18.70	QP			
4	*	661.1505	42.52	-13.02	29.50	46.00	-16.50	QP			
5		696.8567	35.50	-12.20	23.30	46.00	-22.70	QP			
6		916.0687	30.63	-8.33	22.30	46.00	-23.70	QP			



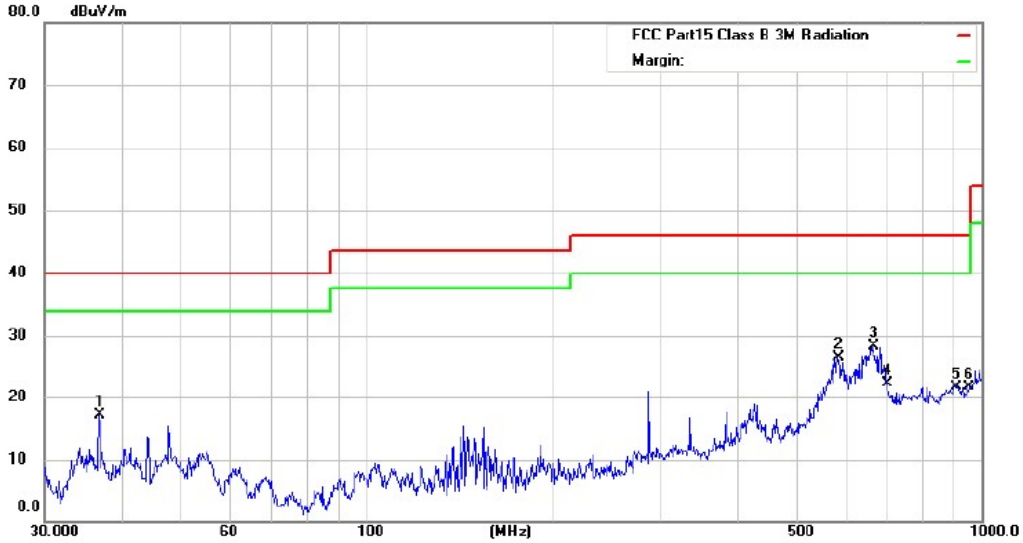
Site Radiated Emission 3m #1 Polarization: ***Horizontal*** Temperature: 24

Limit: FCC Part15.209 Power: DC 3.7V Humidity: 55 %

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		153.7385	54.11	-26.81	27.30	43.50	-16.20	QP			
2		191.7450	52.08	-23.38	28.70	43.50	-14.80	QP			
3	*	287.9904	56.67	-20.57	36.10	46.00	-9.90	QP			
4		435.5898	52.00	-18.10	33.90	46.00	-12.10	QP			
5		574.6258	44.28	-13.18	31.10	46.00	-14.90	QP			
6		665.8035	48.83	-13.33	35.50	46.00	-10.50	QP			



Site Radiated Emission 3m #1 Polarization: *Vertical* Temperature: 24

Limit: FCC Part15.209 Power: DC 3.7V Humidity: 55 %

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		36.7662	40.60	-23.50	17.10	40.00	-22.90	QP			
2		582.7425	39.48	-12.98	26.50	46.00	-19.50	QP			
3	*	663.4729	41.48	-13.18	28.30	46.00	-17.70	QP			
4		699.3046	34.53	-12.13	22.40	46.00	-23.60	QP			
5		906.4824	29.59	-7.79	21.80	46.00	-24.20	QP			
6		948.7610	29.91	-8.21	21.70	46.00	-24.30	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

N/A

9.9 ANTENNA APPLICATION

9.9.1 Antenna Requirement

Standard	Requirement
FCC CRF Part15.203	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 intentionalradiators 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

The EUT'S antenna is PCB antenna. The antenna's gain is 2 dBi. and the antenna can't be replaced by the userwhich in accordance to section 15.203, please refer to the photos.

*** End of Report ***

声 明
Statement

1. 本报告无授权批准人签字及“检验报告专用章”无效；
   This report will be void without authorized signature or special seal for testing report.

2. 未经许可本报告不得部分复制；
   This report shall not be copied partly without authorization.

3. 本报告的检测结果仅对送测样品有效，委托方对样品的代表性和资料的真实性负责；
   The test results or observations are applicable only to tested sample. Client shall be responsible for representativeness of the sample and authenticity of the material.

4. 本检测报告中检测项目标注有特殊符号则该项目不在资质认定范围内，仅作为客户委托、科研、教学或内部质量控制等目的使用；
   The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.

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   The test results or observations are provided in accordance with measured value, without taking risks caused by uncertainty into account. Without explicit stipulation in special agreements, standards or regulations, EMTEK shall not assume any responsibility.

6. 对本检测报告若有异议，请于收到报告之日起 20 日内提出；
   Objections shall be raised within 20 days from the date receiving the report.