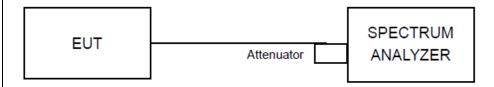


4.5 Conducted Band Edges Measurement

4.5.1 Limit

Below 20 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

4.5.2 Test Setup



4.5.3 Test Procedures

The EUT was tested according to DTS test procedure of "KDB558074 D01 DTS Meas Guidance" (clause 11.0) for compliance to FCC 47CFR 15.247 requirements.

MEASUREMENT PROCEDURE REF

- 1. Set the RBW = 100 kHz.
- 2. Set the VBW \geq 300 kHz.
- 3. Detector = peak.
- 4. Sweep time = auto couple.
- 5. Trace mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment

within the fundamental EBW.

MEASUREMENT PROCEDURE OOBE

- 1. Set RBW = 100 kHz.
- 2. Set VBW \geq 300 kHz.
- 3. Detector = peak.
- 4. Sweep = auto couple.
- 5. Trace Mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum amplitude level.

4.5.4 Deviation of Test Standard

No deviation.



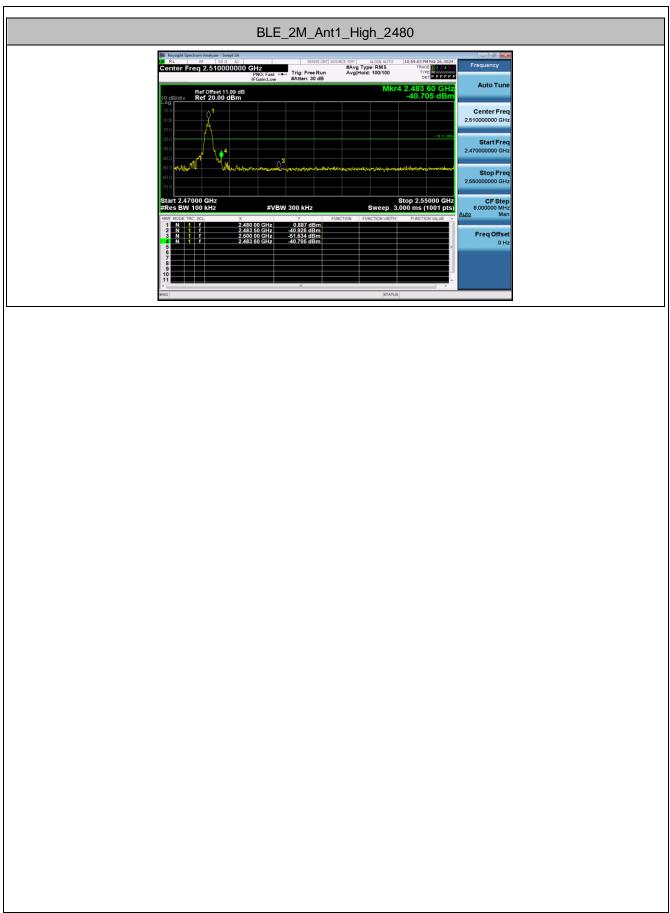
4.5.5 Test Results

Test Mode	Antenna	ChName	Channel [MHz]	RefLevel [dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
	A pt 1	Low	2402	-0.53	-38.08	≤-20.53	PASS
BLE_1M	Ant1	High	2480	-1.69	-42.7	≤-21.69	PASS
	A pt 1	Low	2402	0.63	-32.85	≤-19.37	PASS
BLE_2M	Ant1	High	2480	0.89	-40.71	≤-19.11	PASS









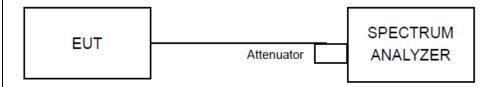


4.6 Conducted Spurious Emissions

4.6.1 Limit

Below 20 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

4.6.2 Test Setup



4.6.3 Test Procedures

The EUT was tested according to DTS test procedure of "KDB558074 D01 DTS Meas Guidance" (clause 11.0) for compliance to FCC 47CFR 15.247 requirements.

MEASUREMENT PROCEDURE REF

- 1. Set the RBW = 100 kHz.
- 2. Set the VBW \geq 300 kHz.
- 3. Detector = peak.
- 4. Sweep time = auto couple.
- 5. Trace mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment

within the fundamental EBW.

MEASUREMENT PROCEDURE OOBE

- 1. Set RBW = 100 kHz.
- 2. Set VBW \geq 300 kHz.
- 3. Detector = peak.
- 4. Sweep = auto couple.
- 5. Trace Mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum amplitude level.

4.6.4 Deviation of Test Standard

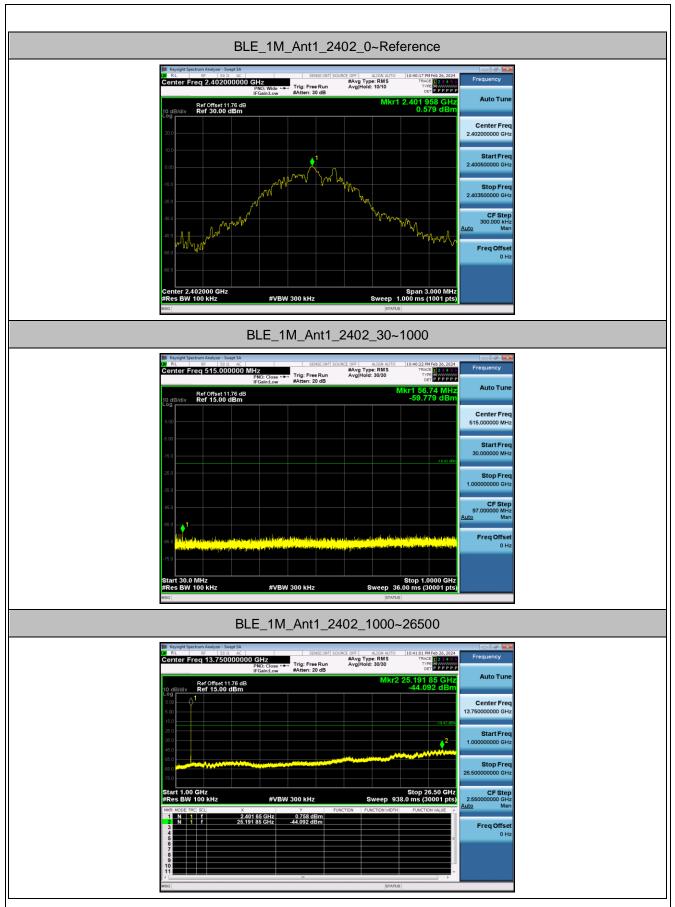
No deviation.



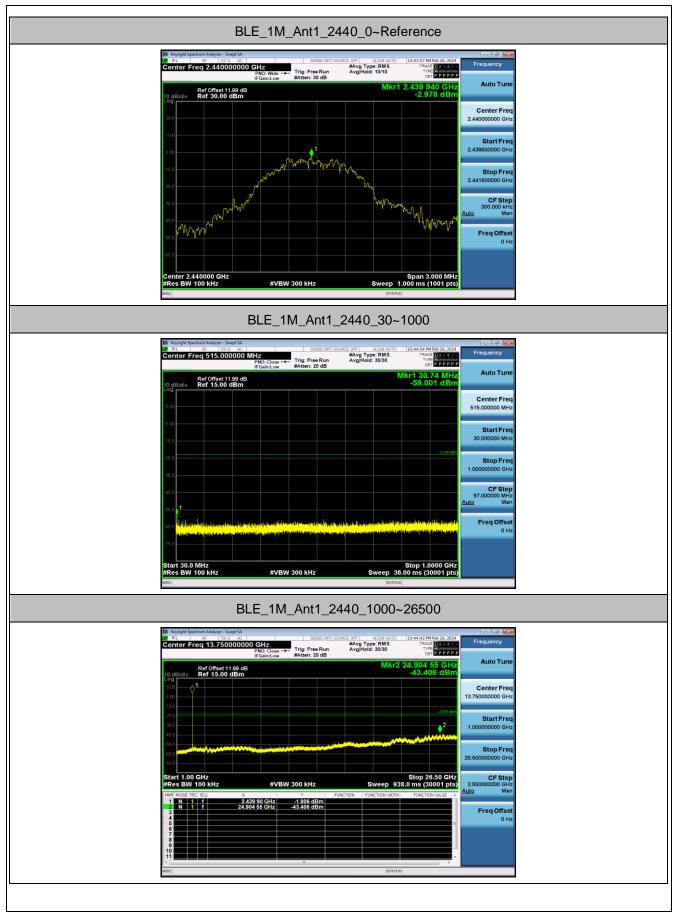
4.6.5 Test Results

Test Mode	Antenna	Channel [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
			Reference	0.58	0.58		PASS
		2402	30~1000	0.58	-59.78	≤-19.42	PASS
			1000~26500	0.58	-44.09	≤-19.42	PASS
			Reference	-2.98	-2.98		PASS
BLE_1M	Ant1	2440	30~1000	-2.98	-59	≤-22.98	PASS
			1000~26500	-2.98	-43.41	≤-22.98	PASS
			Reference	-0.10	-0.10		PASS
		2480	30~1000	-0.10	-58.34	≤-20.10	PASS
			1000~26500	-0.10	-44.57	≤-20.10	PASS
			Reference	0.62	0.62		PASS
		2402	30~1000	0.62	-58.72	≤-19.38	PASS
			1000~26500	0.62	-44.33	≤-19.38	PASS
			Reference	-1.24	-1.24		PASS
BLE_2M	Ant1	2440	30~1000	-1.24	-58.42	≤-21.24	PASS
			1000~26500	-1.24	-44.12	≤-21.24	PASS
			Reference	-5.41	-5.41		PASS
		2480	30~1000	-5.41	-58.51	≤-25.41	PASS
			1000~26500	-5.41	-43.4	≤-25.41	PASS

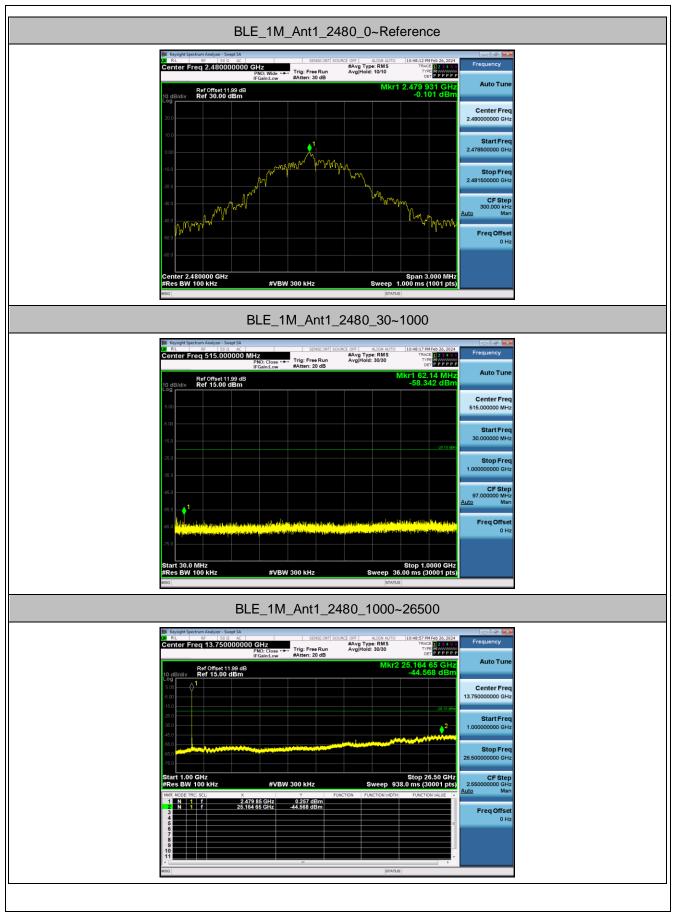




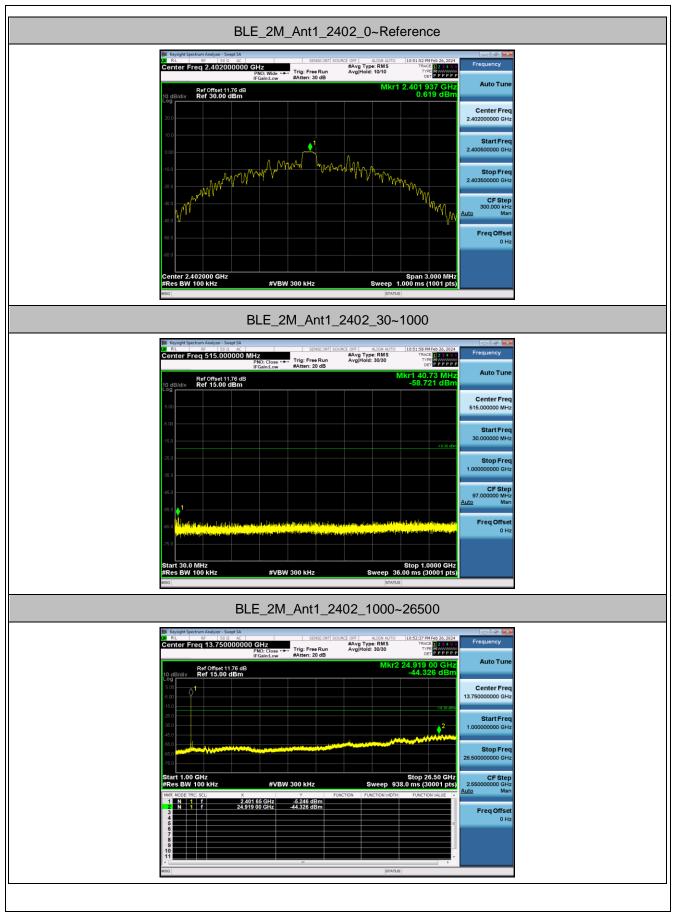




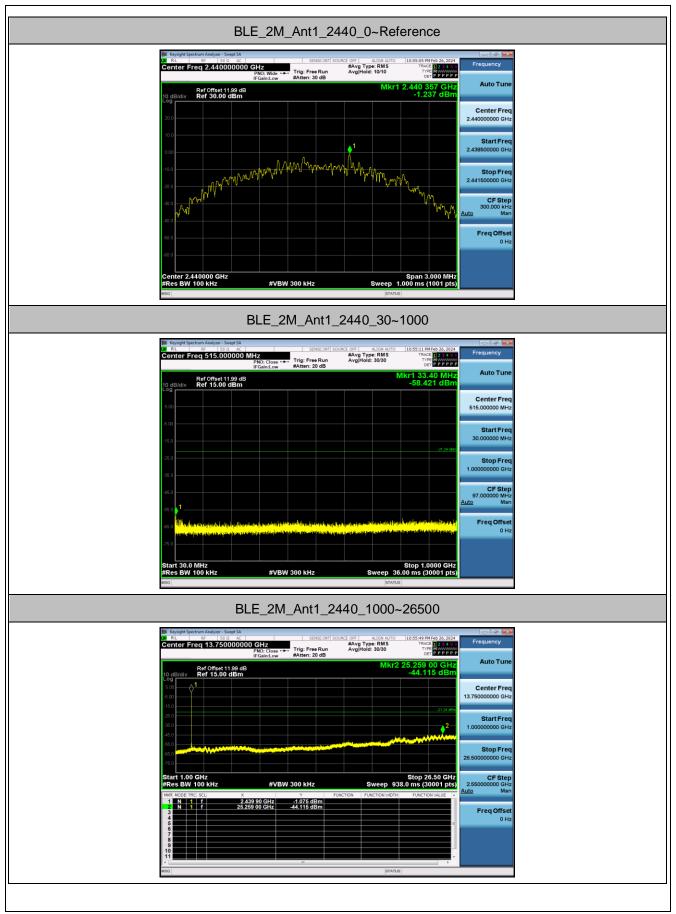




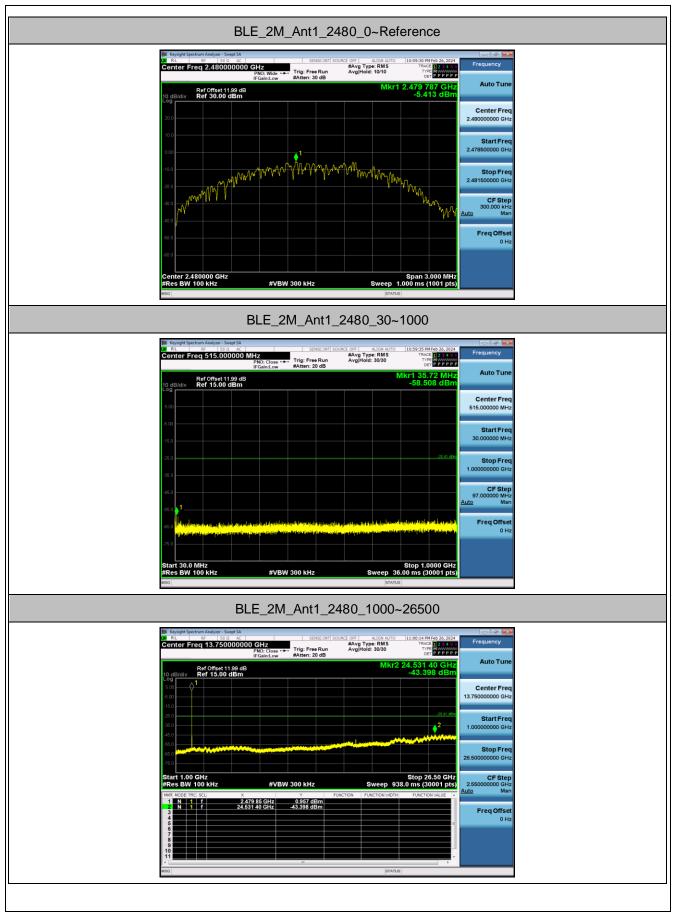














4.7 Emissions in restricted frequency bands

4.7.1 Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part15, must also comply with the radiated emission limits specified in Section 15.209(a).

		•	
Frequency	Frequency	Frequency	Frequency
(MHz)	(MHz)	(MHz)	(GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
1 0.495 - 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	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	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 - 156.525	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			



All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC	FCC Part 15 Subpart C Paragraph 15.209							
Frequency	Field Strength	Measured Distance						
[MHz]	[uV/m]	[Meters]						
0.009 - 0.490	2400/F (kHz)	300						
0.490 - 1.705	24000/F (kHz)	30						
1.705 - 30	30	30						
30 - 88	100	3						
88 - 216	150	3						
216 - 960	200	3						
Above 960	500	3						

4.7.2 Test Procedure Reference

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

4.7.3 Test Procedures

Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize



Average Measurements above 1GHz (Method VB)(Duty Cycle is constant)

- 1. The EUT shall be configured to operate at the maximum achievable duty cycle.
- 2. RBW = 1MHz
- 3. VBW ≥ 3MHz
- 4. Detector = RMS (power averaging), Averaging Type= power (RMS)
- 5. Sweep time = auto
- 6. Trace mode = max hold
- 7. Perform a trace average of at least 100 traces.
- 8. A correction factor [10 log (1 / D)] shall be added to the measurement results, where D is the duty cycle.

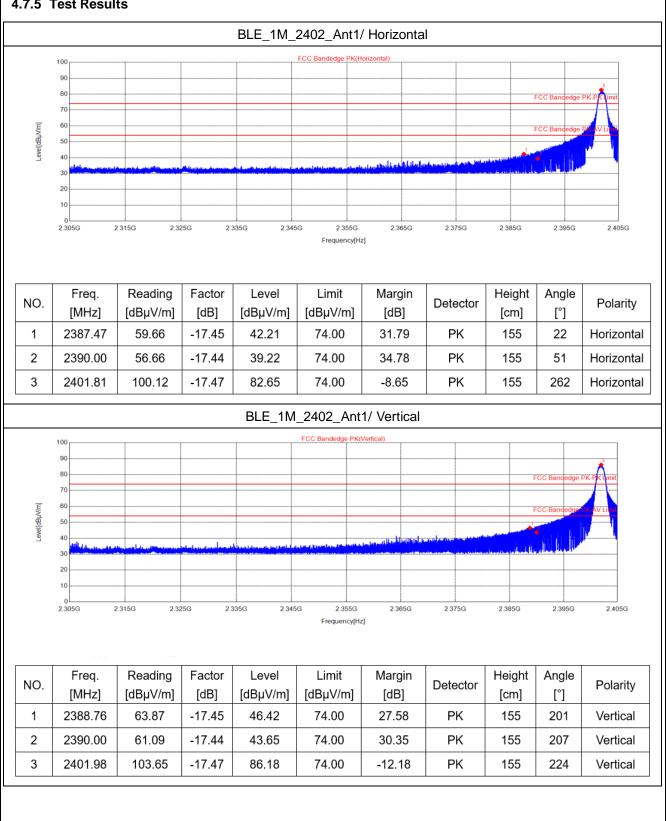
4.7.4 Test Setup

For Radiated emission above 1GHz

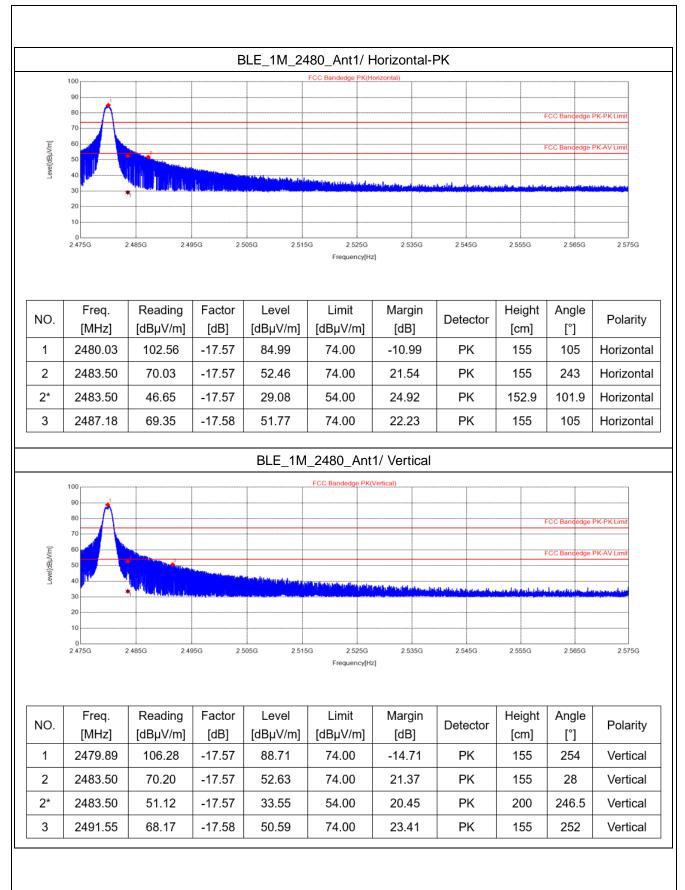
	Ant. Tower 1-4m Variable
EUT& Support Units	3m
	Turn Table Absorber
150cm	
-	4
	Ground Plane
	Test Receiver



4.7.5 Test Results



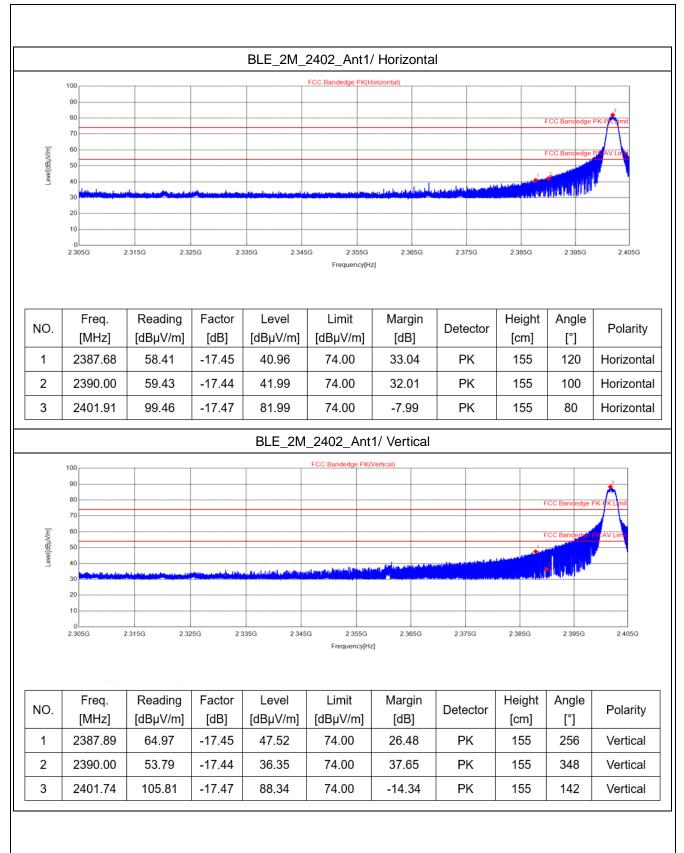




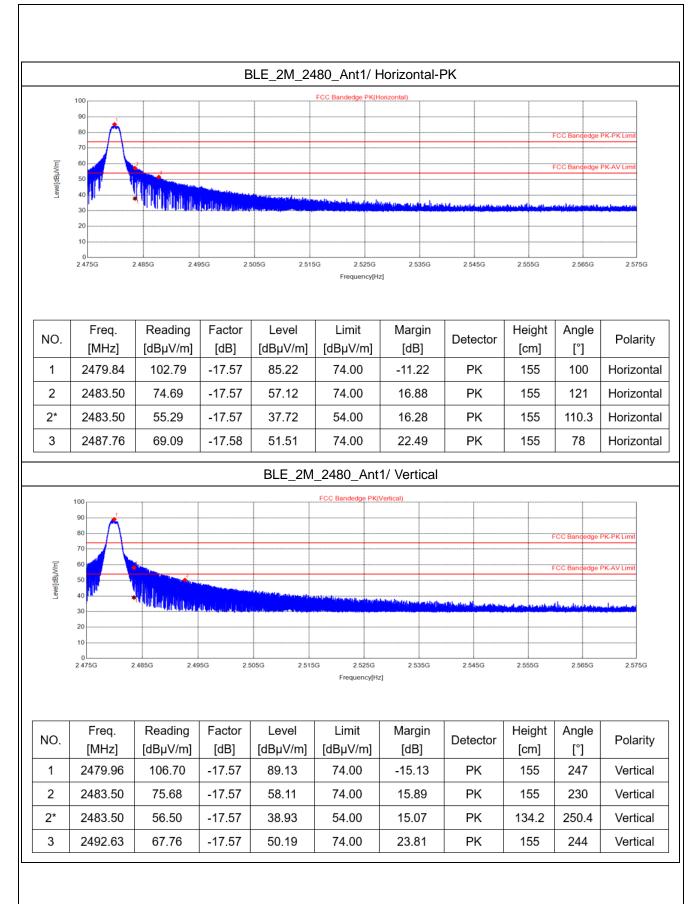
Report No.: OKA-ESH-P24020029B-2

Report Format Version: 6.1.1









Report No.: OKA-ESH-P24020029B-2

Report Format Version: 6.1.1



4.8 Radiated Emission Measurement

4.8.1 Limits

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.

2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

3. For frequencies above 1000 MHz, the field strength limits are based on average detector, 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.

4.8.2 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.1 meters above the ground at a 3 meter chamber room. The table was rotated 360 degree to determine the position of the highest radiation.
- 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.
- c. Both X and Y axes of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotate table was turned from 0 degree to 360 degree to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.



For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.1 meters (for below 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz & 360 kHz

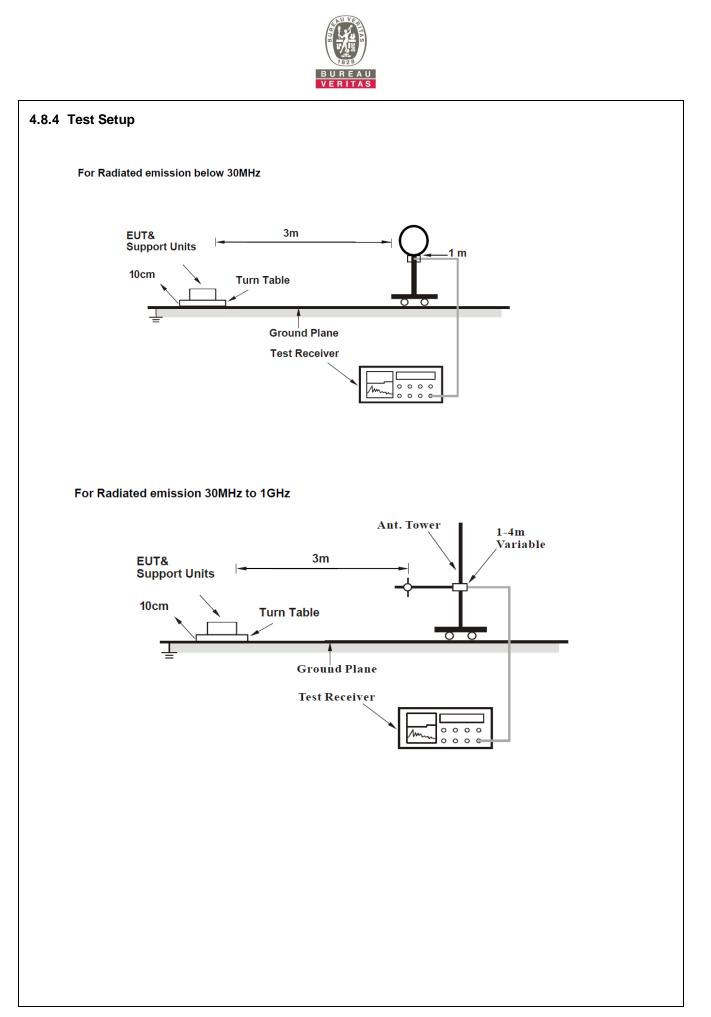
for Quasi-peak detection (QP) at frequency below 1 GHz.

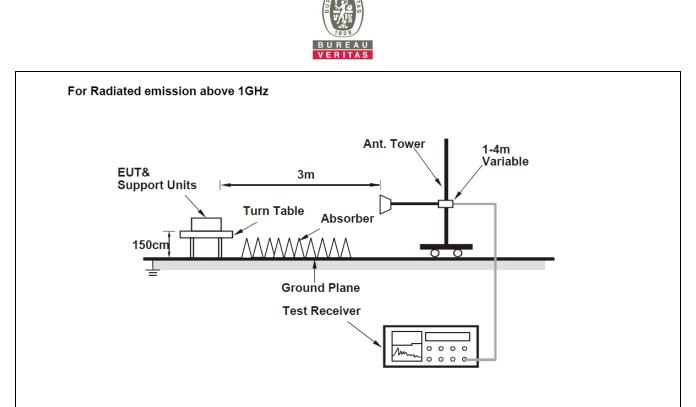
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1/T for RMS Average (Duty cycle < 98 %) for Peak detection at frequency above 1 GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz (Duty cycle \geq 98 %) for Average detection (AV) at frequency above 1 GHz.

5. All modes of operation were investigated and the worst-case emissions are reported.

4.8.3 Deviation from Test Standard

No deviation.





For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.8.5 EUT Operating Conditions

- a. Placed the EUT on a testing table.
- b. Use the software to control the EUT under transmission condition continuously at specific channel frequency.

4.8.6 Test Results

Radiated Emissions Range 9kHz~30MHz

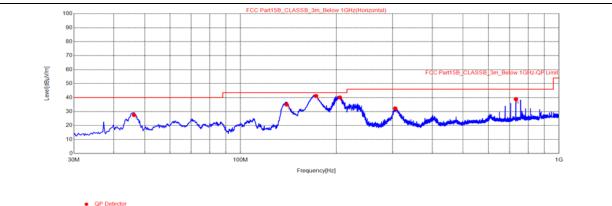
The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.



Radiated Emissions Range 30MHz~1GHz

Below is the worst test data

Channel	BLE_2402	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz	Antenna Polarity	Horizontal
Power supply	AC120V 60Hz		
	<u> </u>		



Final Data List

Finali	Data List									
NO.	Freq.[MHz]	Reading [dBµV]	Factor [dB]	Value [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle[°]	Polarity
1	46.30	37.96	-10.44	27.52	40.00	12.48	QP	200	272	Horizontal
2	139.61	45.73	-10.80	34.93	43.50	8.57	QP	100	73	Horizontal
3	172.63	51.49	-10.32	41.17	43.50	2.33	QP	106.5	88.2	Horizontal
4	204.99	53.15	-13.02	40.13	43.50	3.37	QP	100	86	Horizontal
5	305.87	41.04	-8.75	32.29	46.00	13.71	QP	100	313	Horizontal
6	732.28	39.89	-0.96	38.93	46.00	7.07	QP	100	264	Horizontal

- 1. Emission Level(dBuV/m) = Spectrum reading (dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Limit value Emission Level



Channe	el		BLE_240)2	Detec	tor Fund	tion	Quasi-F	Peak (QP)	
Freque	ncy Ran	ge	30MHz ~	- 1GHz	Anter	na Pola	rity	Vertical		
Power	supply		AC120V	60Hz						
	100 90 80 70 (WV(B)) 999 50 50 30 20 10 0 0 0 0 0	much			FCC Part158_CLASS8_	Jm_Below 1GHz(Ve		CC Part158_CLAS	SB_3m_Below 1GHz-C	
Final	Data List	QP Detector			Freque	ncy[Hz]				
			Factor	Value	Limit	Margin	Detector	Height	Angle[°]	
NO.	Freq.[MHz]	Reading [dBµV]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	Delector	[cm]	5-11	Polarity
			[dB]			[dB]	QP	[cm] 195.8	190.4	Polarity Vertical
NO.	MHz]	[dBµV]	[dB]	[dBµV/m]	[dBµV/m]	[dB]				-
NO. 1	MHz] 45.63	[dBµV] 45.29	[dB] -10.50	[dBµV/m] 34.79	[dBµV/m] 40.00	[dB] 5.21	QP	195.8	190.4	Vertical
NO. 1 2	MHz] 45.63 70.93	[dBµV] 45.29 41.45	[dB] -10.50 -12.64	[dBµV/m] 34.79 28.81	[dBµV/m] 40.00 40.00	[dB] 5.21 11.19	QP QP	195.8 100	190.4 121	Vertical Vertical
NO. 1 2 3	MHz] 45.63 70.93 139.22	[dBµV] 45.29 41.45 44.29	[dB] -10.50 -12.64 -10.84	[dBµV/m] 34.79 28.81 33.45	[dBµV/m] 40.00 40.00 43.50	[dB] 5.21 11.19 10.05	QP QP QP	195.8 100 100	190.4 121 42	Vertical Vertical Vertical

- 1. Emission Level(dBuV/m) = Original Spectrum reading (dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Limit value Emission Level



Chanr	nel		BLE_240	02	Detec	tor Fund	ction	Quasi-P	eak (QP)	
requ	ency Rai	nge	30MHz -	~ 1GHz	Anter	nna Pola	rity	Horizon	tal	
Power	supply		Powered	d by battery						
	100 99 88 77 60 69 99 99 9 9 9 9 9 9 9 9 9 9 9 9 9 9) 			CC PartisB_CLASSB_3r			CC Part158 CLAS	SB_3m_Beow 1GHz-0	3P Limit
	20	- A down	Manual							
		• QP Detector		100M	Freque	ncy[Hz]				16
Final	Data List	QP Detector								16
Final NO.	(QP Detector	Factor [dB]	Value [dBµV/m]	Freque Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle[°]	Polarity
	Data List	• QP Detector		Value	Limit	Margin	Detector		Angle[°]	Polarity
NO.	Data List Freq.[MHz]	• QP Detector Reading [dBµV]	[dB]	Value [dBµV/m]	Limit [dBµV/m]	Margin [dB]		[cm]		
NO. 1	Data List Freq.[MHz] 70.93	• QP Detector Reading [dBµV] 41.95	[dB] -12.64	Value [dBµV/m] 29.31	Limit [dBµV/m] 40.00	Margin [dB] 10.69	QP	[cm] 200	16	Polarity Horizontal
NO. 1 2	Data List Freq.[MHz] 70.93 109.93	• QP Detector Reading [dBµV] 41.95 40.78	[dB] -12.64 -13.42	Value [dBµV/m] 29.31 27.36	Limit [dBµV/m] 40.00 43.50	Margin [dB] 10.69 16.14	QP QP	[cm] 200 200	16 257	Polarity Horizontal Horizontal
NO. 1 2 3	Data List Freq.[MHz] 70.93 109.93 138.95	• QP Detector Reading [dBµV] 41.95 40.78 51.98	[dB] -12.64 -13.42 -10.82	Value [dBµV/m] 29.31 27.36 41.16	Limit [dBµV/m] 40.00 43.50 43.50	Margin [dB] 10.69 16.14 2.34	QP QP QP	[cm] 200 200 122	16 257 85.5	Polarity Horizontal Horizontal Horizontal

- 1. Emission Level(dBuV/m) = Spectrum reading (dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Limit value Emission Level

Report No.: OKA-ESH-P24020029B-2



Chanr	nel		BLE_240	02	Detec	tor Fund	tion	Quasi-F	eak (QP)	
Frequ	ency Rai	nge	30MHz ~	- 1GHz	Anter	na Pola	rity	Vertical		
Power	supply		Powered by battery							
	100 99 77 100 100 100 100 100 100 100 100 100) 			FCC Part158_CLASS8_	3m_Below 1GHz(Ve		CC Part158_CLAS	S8_3m_Below 1GHz-C	3P Limit
	30		mh. y		₩.	\bigvee \vee	when a	And a start	and the second	
	20 10 3	Amalin	-	100M	Freque	ncy[Hz]				16
Final	10	• QP Detector		100M	Freque	ncy[Hz]				16
Final NO.	10 (3	• QP Detector	Factor [dB]	Value [dBµV/m]	Freque Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle[°]	Polarity
	Data List	• QP Detector		Value	Limit	Margin	Detector		Angle[°]	
NO.	Data List Freq.[MHz]	• OP Detector Reading [dBµV]	[dB]	Value [dBµV/m]	Limit [dBµV/m]	Margin [dB]		[cm]		Polarity
NO. 1	Data List Freq.[MHz] 71.88	• QP Detector Reading [dBµV] 51.14	[dB] -12.76	Value [dBµV/m] 38.38	Limit [dBµV/m] 40.00	Margin [dB] 1.62	QP	[cm] 119.1	110.9	Polarity Vertical
NO. 1 2	Data List Freq.[MHz] 71.88 113.81	• QP Detector Reading [dBµV] 51.14 47.31	[dB] -12.76 -12.98	Value [dBµV/m] 38.38 34.33	Limit [dBµV/m] 40.00 43.50	Margin [dB] 1.62 9.17	QP QP	[cm] 119.1 100	110.9 183	Polarity Vertical Vertical
NO. 1 2 3	Data List Freq.[MHz] 71.88 113.81 139.80	• QP Detector Reading [dBµV] 51.14 47.31 48.02	[dB] -12.76 -12.98 -10.79	Value [dBµV/m] 38.38 34.33 37.23	Limit [dBµV/m] 40.00 43.50 43.50	Margin [dB] 1.62 9.17 6.27	QP QP QP	[cm] 119.1 100 100	110.9 183 47	Polarity Vertical Vertical Vertical

- 1. Emission Level(dBuV/m) = Original Spectrum reading (dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Limit value Emission Level



Radiated Emission Range 1GHz~10th Harmonic

Below is the worst test data

Channel	BLE_1M_2402_Ant1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz	Delector Function	Average (AV)

	Spurious Emission Level								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Correction Factor (dB/m)	Antenna Polarity	Detector		
1	12010.90	54.88	74.00	19.12	-3.83	Н	PK		
2	12010.90	50.59	54.00	3.41	-3.83	Н	AV		
3	7206.70	56.91	74.00	17.09	-8.34	V	PK		
4	7206.70	51.57	54.00	2.43	-8.34	V	AV		

REMARKS:

1. Emission Level(dBuV/m) = Original Spectrum reading (dBuV) + Correction Factor(dB/m)

2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)

- 3. The other emission levels were very low against the limit.
- 4. Margin value = Limit value Emission Level

Channel	BLE_1M_2440_Ant1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

	Spurious Emission Level								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Correction Factor (dB/m)	Antenna Polarity	Detector		
1	12201.30	52.77	74.00	21.23	-3.74	Н	PK		
2	12201.30	47.97	54.00	6.03	-3.74	Н	AV		
3	7320.60	55.66	74.00	18.34	-8.35	V	PK		
4	7320.60	51.14	54.00	2.86	-8.35	V	AV		

- 1. Emission Level(dBuV/m) = Original Spectrum reading (dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Limit value Emission Level



Channel	BLE_1M_2480_Ant1		Peak (PK)
Frequency Range	1GHz ~ 25GHz	Detector Function	Average (AV)

	Spurious Emission Level								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Correction Factor (dB/m)	Antenna Polarity	Detector		
1	7441.30	53.20	74.00	20.80	-8.30	Н	PK		
2	7441.30	50.15	54.00	3.85	-8.30	Н	AV		
3	7441.30	55.86	74.00	18.14	-8.30	V	PK		
4	7441.30	52.56	54.00	1.44	-8.30	V	AV		

1. Emission Level(dBuV/m) = Original Spectrum reading (dBuV) + Correction Factor(dB/m)

2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)

- 3. The other emission levels were very low against the limit.
- 4. Margin value = Limit value Emission Level

Channel	BLE_2M_2402_Ant1		Peak (PK)
Frequency Range	1GHz ~ 25GHz	Detector Function	Average (AV)

	Spurious Emission Level								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Correction Factor (dB/m)	Antenna Polarity	Detector		
1	12010.90	53.66	74.00	20.34	-3.83	Н	PK		
2	12010.90	47.96	54.00	6.04	-3.83	Н	AV		
3	7206.70	53.65	74.00	20.35	-8.34	V	PK		
4	7206.70	48.84	54.00	5.16	-8.34	V	AV		

- 1. Emission Level(dBuV/m) = Original Spectrum reading (dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Limit value Emission Level



Channel	BLE_2M_2440_Ant1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz	Detector Function	Average (AV)

	Spurious Emission Level								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Correction Factor (dB/m)	Antenna Polarity	Detector		
1	12201.30	53.80	74.00	20.20	-3.74	Н	PK		
2	12201.30	49.20	54.00	4.80	-3.74	Н	AV		
3	7320.60	55.16	74.00	18.84	-8.81	V	PK		
4	7320.60	49.66	54.00	4.34	-8.81	V	AV		

1. Emission Level(dBuV/m) = Original Spectrum reading (dBuV) + Correction Factor(dB/m)

2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)

3. The other emission levels were very low against the limit.

4. Margin value = Limit value – Emission Level

Channel	BLE_2M_2480_Ant1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz	Delector Function	Average (AV)

	Spurious Emission Level								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Correction Factor (dB/m)	Antenna Polarity	Detector		
1	7441.30	54.18	74.00	19.82	-8.30	Н	PK		
2	7441.30	49.25	54.00	4.75	-8.30	Н	AV		
3	7441.30	56.06	74.00	17.94	-8.30	V	PK		
4	7441.30	52.08	54.00	1.92	-8.30	V	AV		

REMARKS:

1. Emission Level(dBuV/m) = Original Spectrum reading (dBuV) + Correction Factor(dB/m)

- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Limit value Emission Level



5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

--- END ---