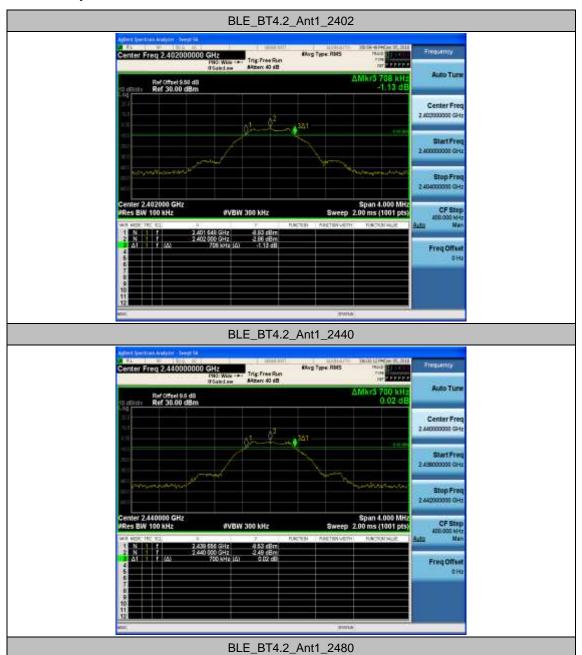
Appendix for Test report

Appendix A: DTS Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_BT4.2	Ant1	2402	0.708	2401.648	2402.356		PASS
		2440	0.700	2439.656	2440.356		PASS
		2480	0.700	2479.656	2480.356		PASS







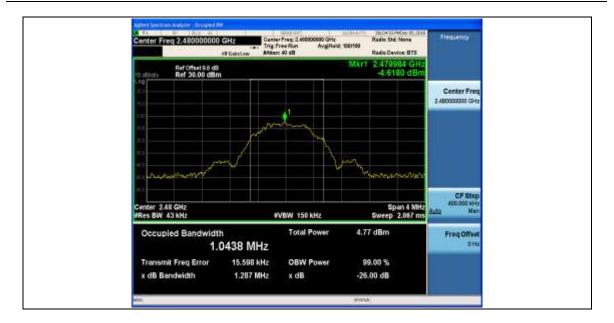
Appendix B: Occupied Channel Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_BT4.2	Ant1	2402	1.0359	2401.494	2402.530		PASS
		2440	1.0466	2439.493	2440.540		PASS
		2480	1.0438	2479.494	2480.538		PASS





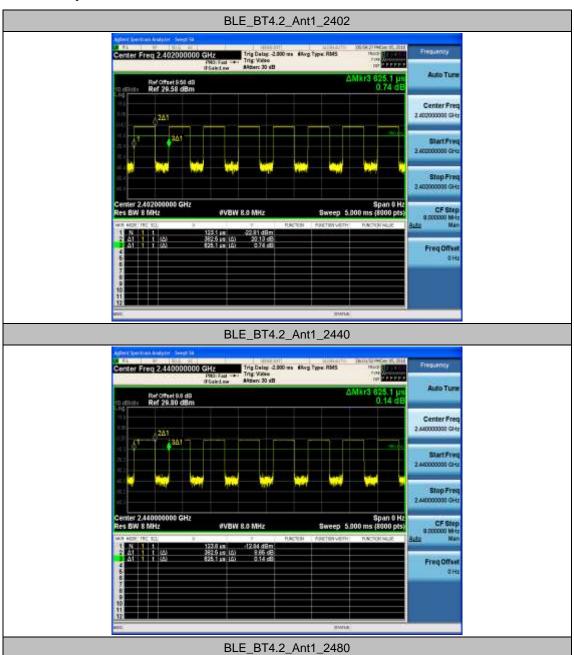




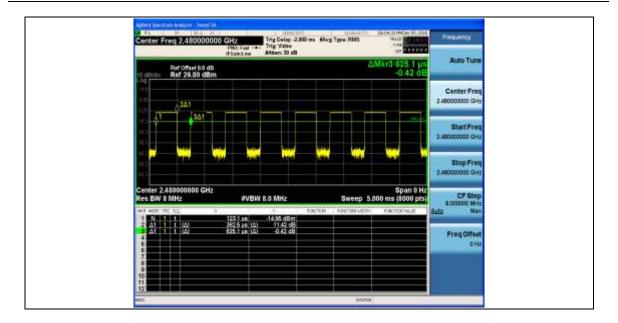
Appendix C: Duty Cycle

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
	Ant1	2402	0.38	0.63	61.20
BLE_BT4.2		2440	0.38	0.63	61.20
		2480	0.38	0.63	61.20





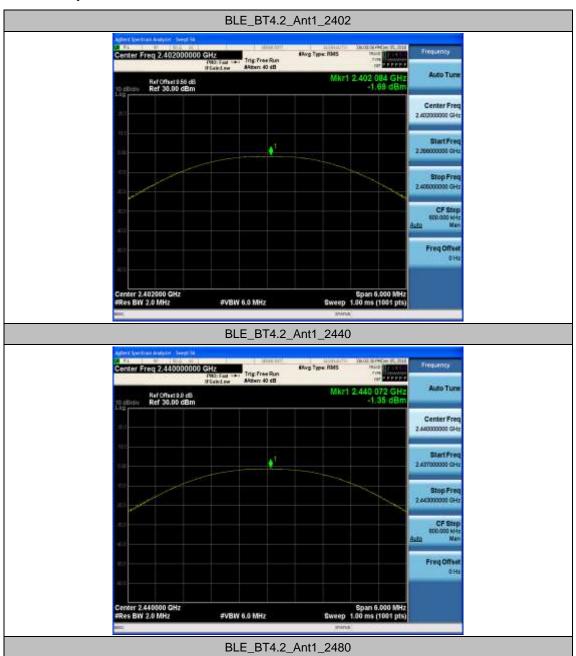




Appendix D: Maximum Peak conducted output power

TestMode	Antenna	Channel Result[dBm]		Limit[dBm]	Verdict
BLE_BT4.2	Ant1	2402 -1.69		30	PASS
		2440	-1.35	30	PASS
		2480	-1.54	30	PASS



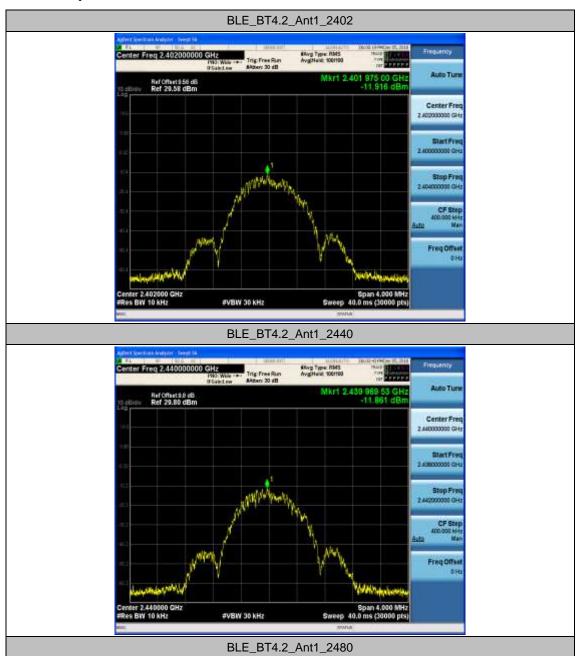




Appendix E: Maximum power spectral density

TestMode	Antenna	Channel	Result[dBm/10kHz]	Limit[dBm/3kHz]	Verdict
BLE_BT4.2		2402	-11.92	8	PASS
	Ant1	2440	-11.86	8	PASS
		2480	-11.7	8	PASS



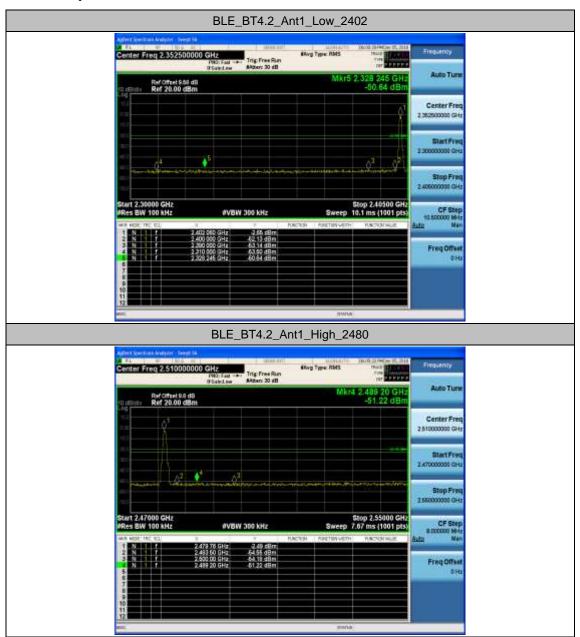




Appendix F: Band edge measurements

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT4.2	Ant1	Low	2402	-2.65	-50.64	-22.65	PASS
	Anti	High	2480	-2.49	-51.22	-22.49	PASS





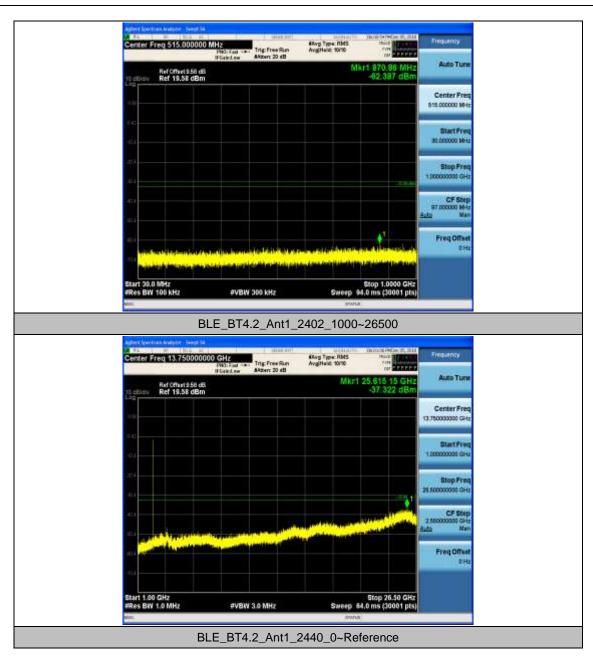
Appendix G: Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
			Reference	-2.99	-2.99		PASS
		2402	0.009~30	0.009~30	-74.18	-42.99	PASS
		2402	30~1000	30~1000	-62.39	-32.99	PASS
			1000~26500	1000~26500	-37.32	-32.99	PASS
		2440	Reference	-2.50	-2.50		PASS
BLE BT4.2	Ant1		0.009~30	0.009~30	-74	-42.5	PASS
DLE_D14.2	Anti		30~1000	30~1000	-63.03	-32.5	PASS
			1000~26500	1000~26500	-37.27	-32.99 PASS -32.99 PASS PASS -42.5 PASS	
			Reference	-2.87	-2.87		PASS
		2480	0.009~30	0.009~30	-73.98	-42.87	PASS
			30~1000	30~1000	-62.9	-32.87	PASS
			1000~26500	1000~26500	-37.69	-32.87	PASS

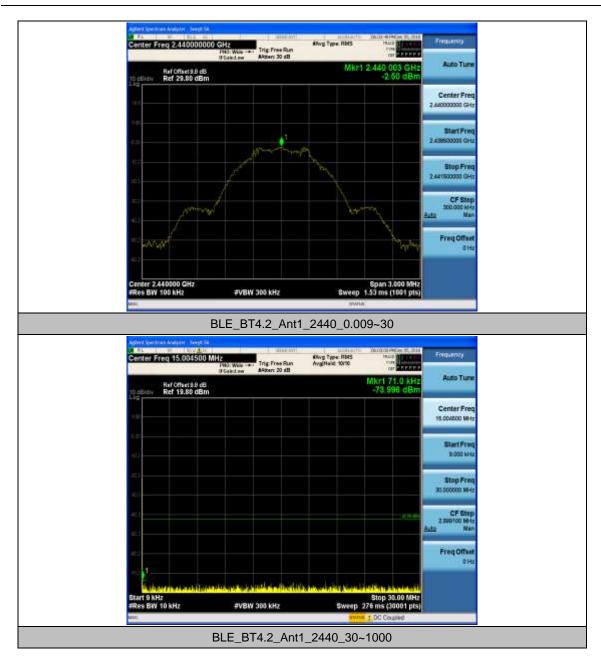




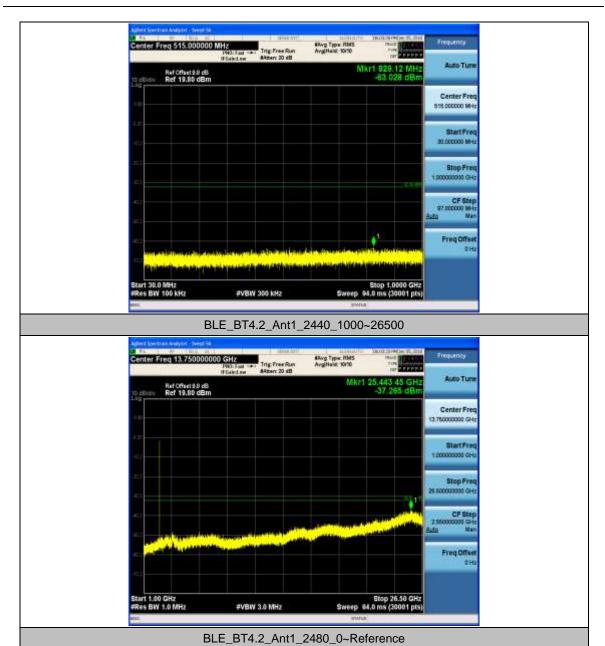




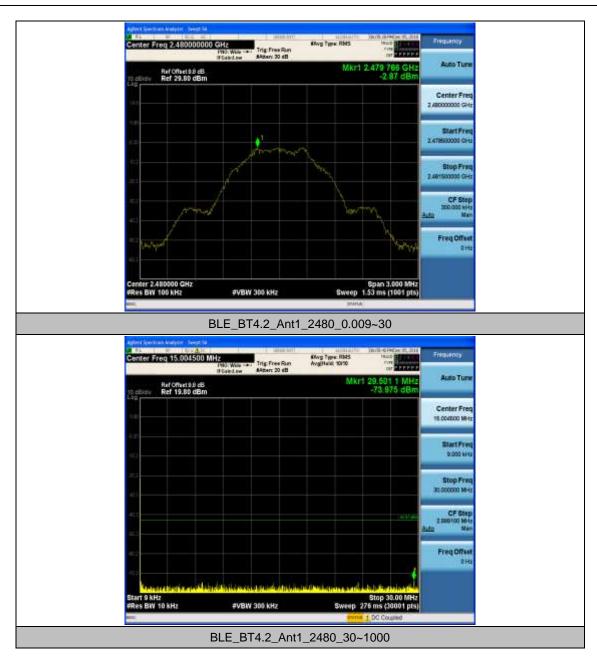




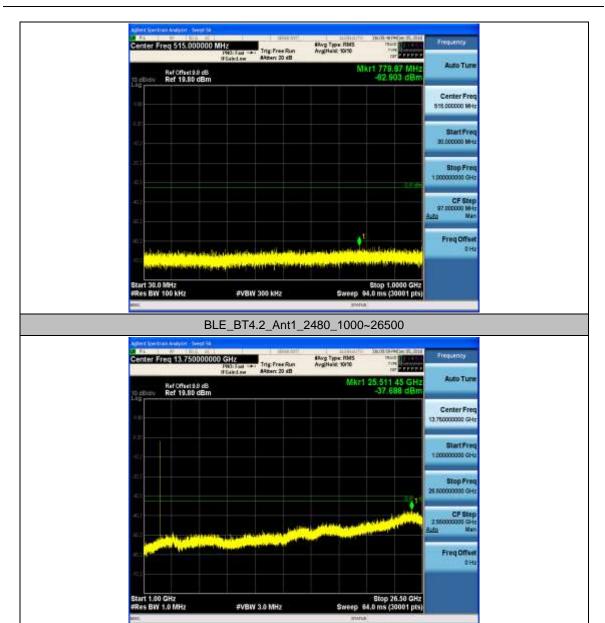












Appendix H: Radiated Spurious Emission & Spurious in Restricted Band

Note: We tested all modes, but the data presented below is the worst case.

Below 1GHz, RBW = 100 kHz, VBW = 300 kHz.

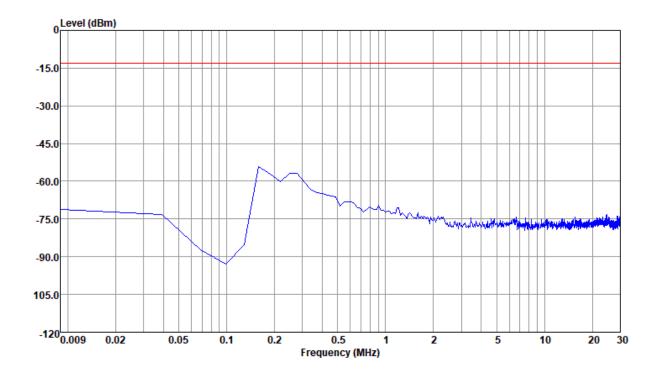
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz.

The simultaneous transmission has been considered



1.1 Part 1: Testing Range of "9 kHz to 30MHz"

Note 1: The test results and plot for testing range of "9 kHz to 30 MHz" showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.

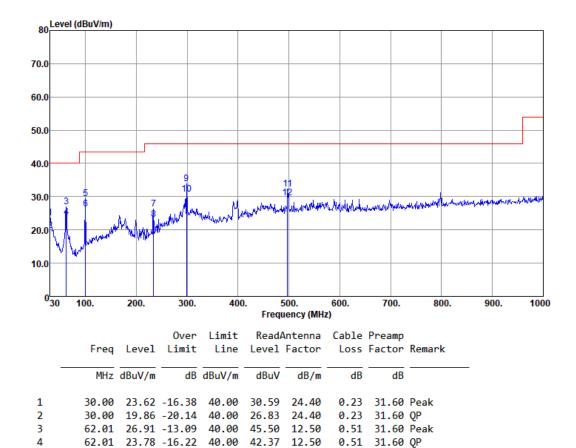




1.2 Part 2: Testing Range of "30 MHz to 1 GHz"

Note 1: The test results and plot for testing range of "30 MHz to 1 GHz" showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.

Note 2: The emissions in this range are mainly from the Platform Device (Notepad PC and its ancillary components).



Note:

5

6

7

8

11

12

9 pp

10 qp

29.48 -14.02

23.16 -22.84

33.96 -12.04

30.81 -15.19

497.54 29.69 -16.31 46.00

99.84 26.31 -17.19

233.70 26.26 -19.74

497.54 32.22 -13.78

43.50

43.50

46.00

46.00

46.00

46.00

46.00

99.84

233.70

298.69

298.69

1, Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain) The reading level is calculated by software which is not shown in the sheet.

43.43

40.26

38.84

35.74

43.82

40.67

37.27

34.74 23.35

16.70

16.70

16.70

16.70

19.19

19.19

23.35

0.85

0.85

1.78

1.78

2.04

2.04

2.70

2.70

31.50 Peak

31.06 Peak

31.09 Peak

31.10 Peak

31.50 QP

31.06 QP

31.09 OP

31.10 QP

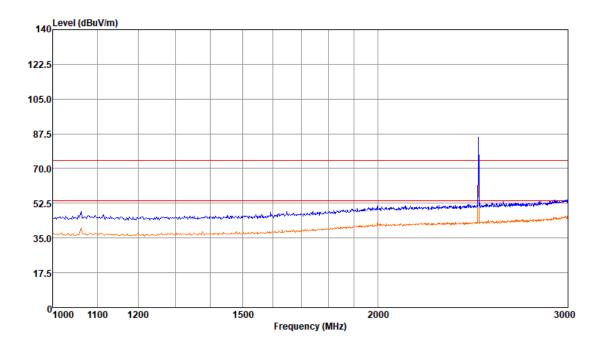
2, Margin=Limit - Level



1.3 Part 3: Testing Range of "1GHz to 3GHz"

- Note 1: The testing range of "1GHz to 3 GHz" is for checking radiated emissions located in restricted bands near the EUT operating bands.
- Note 2: Two limits are required in the testing range above 1 GHz, that is Peak limit $(74 \text{ dB}\mu\text{V/m})$ and Average Limit $(54 \text{ dB}\mu\text{V/m})$.
- Note 3: The peak spike exceeds the limit line is EUT's operating frequency. Test Mode:

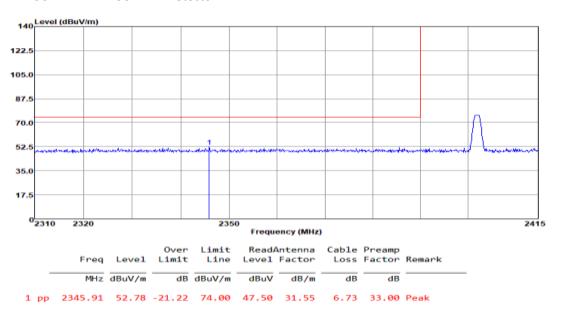
1.3.1Test Mode: TM1



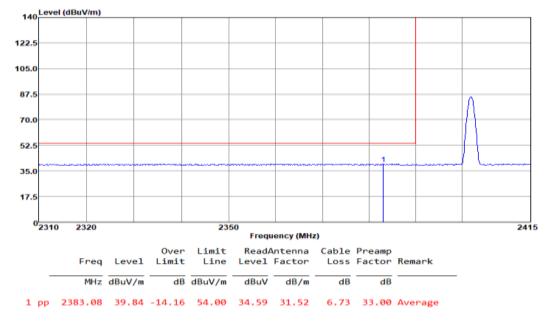


1.3.1.1 Channel 0

MEASUREMENT RESULT: PK Detector



MEASUREMENT RESULT: AV Detector



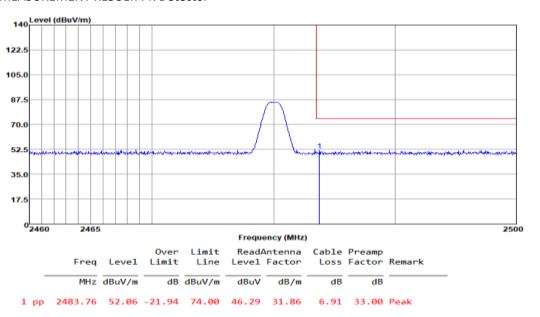
Note2:

- 1, Level =Reading level by receiver + Transd (Antenna factor + cable loss preamplifier gain) The reading level is calculated by software which is not shown in the sheet.
- 2, Margin=Limit Level

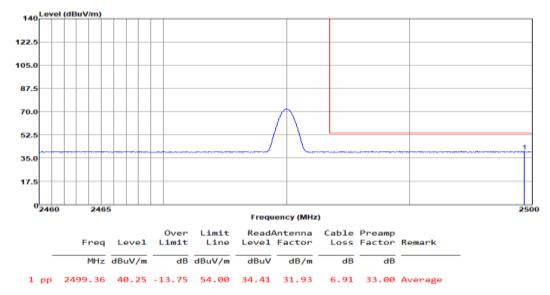


1.3.1.2 Channel 39

MEASUREMENT RESULT: PK Detector



MEASUREMENT RESULT: AV Detector

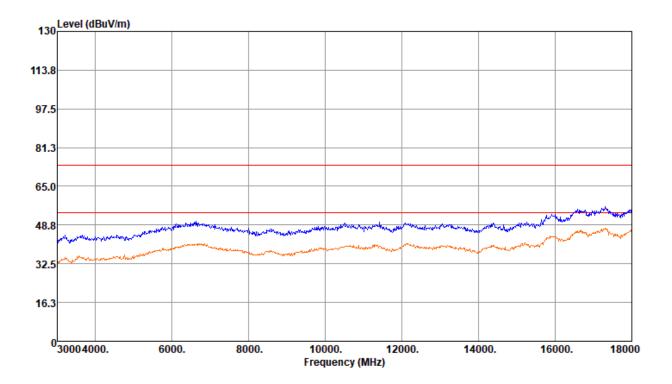


Note2:

- 1, Level =Reading level by receiver + Transd (Antenna factor + cable loss preamplifier gain) The reading level is calculated by software which is not shown in the sheet.
- 2, Margin=Limit Level

1.4 Part 4: Testing Range of "3 GHz to 18 GHz"

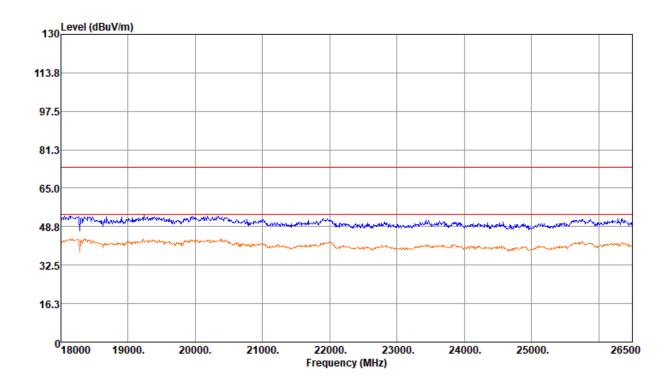
- Note 1: The test results and plot for testing range of "3 GHz to 18 GHz" showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.
- Note 2: The testing range of "3 GHz to 18 GHz" is for checking radiated emissions located in restricted bands faraway from the EUT operating bands.
- Note 3: Two limits are required in the testing range above 1 GHz, that is Peak limit $(74 \text{ dB}\mu\text{V/m})$ and Average Limit $(54 \text{ dB}\mu\text{V/m})$.





1.5 Part 5: Testing Range of "18 GHz to 26.5 GHz"

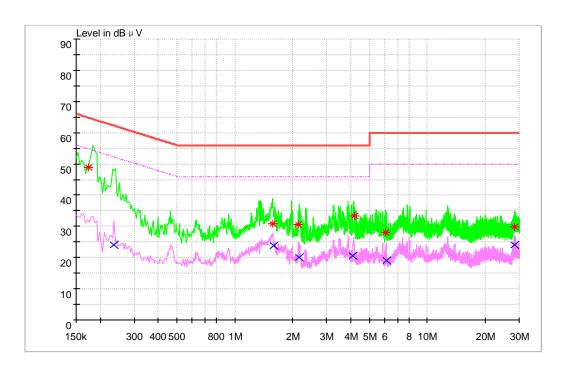
- Note 1: The test results and plot for testing range of "18 GHz to 26.5 GHz" showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.
- Note 2: The testing range of "18 GHz to 26.5 GHz" is for checking radiated emissions located in restricted bands faraway from the EUT operating bands.
- Note 3: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 dB μ V/m) and Average Limit (54 dB μ V/m).



Appendix I: Conducted Emission at Power Port

Note: RBW =9 kHz, VBW = 30 kHz

Channel 0



MEASUREMENT RESULT: PK Detector

Frequency (MHz)	Level (dB μ V)	Limit (dB μ V)	Transd. (dB)	Margin (dB)	Line	PE
0.173658	49.00	64.78	9.7	15.78	L1	FLO
1.579123	30.88	56.00	9.9	25.12	L1	FLO
2.130844	30.63	56.00	9.8	25.37	L1	FLO
4.176604	33.33	56.00	10.0	22.67	L1	FLO
6.100681	28.15	60.00	10.2	31.85	L1	FLO
28.272166	29.81	60.00	12.6	30.19	N	FLO

MEASUREMENT RESULT: AV Detector

Frequency	Level	Limit	Transd.	Margin	Line	PE
(MHz)	(dB μ V)	(dB µ V)	(dB)	(dB)		r L
0.236325	23.99	52.23	9.7	28.24	L1	FLO
1.584798	23.87	46.00	9.9	22.13	L1	FLO
2.147238	19.94	46.00	9.8	26.06	L1	FLO
4.118919	20.49	46.00	10.1	25.51	L1	FLO
6.144067	19.04	50.00	10.1	30.96	L1	FLO
28.319203	23.95	50.00	12.5	26.05	L1	FLO

Note:

1, Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain) The reading level is calculated by software which is not shown in the sheet.

2, Margin=Limit - Level

END