

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.692	2401.652	2402.344	0.5	PASS
		2440	0.664	2439.664	2440.328	0.5	PASS
		2480	0.660	2479.668	2480.328	0.5	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



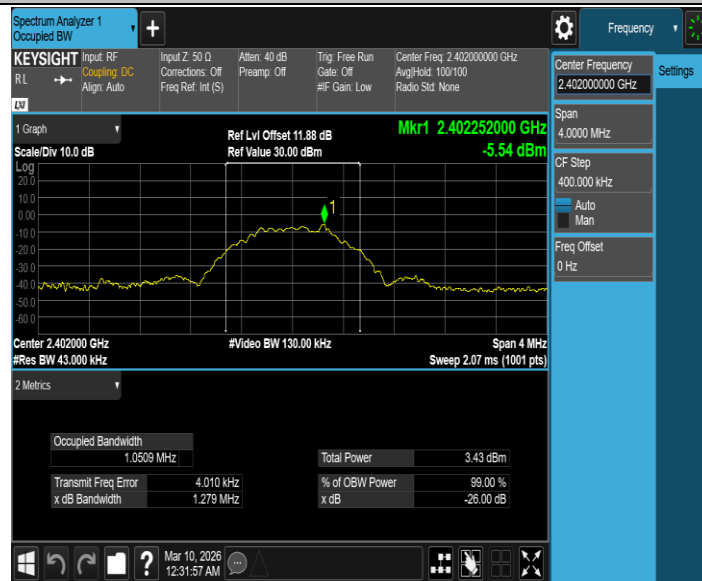
Appendix B: Occupied Channel Bandwidth

Test Result

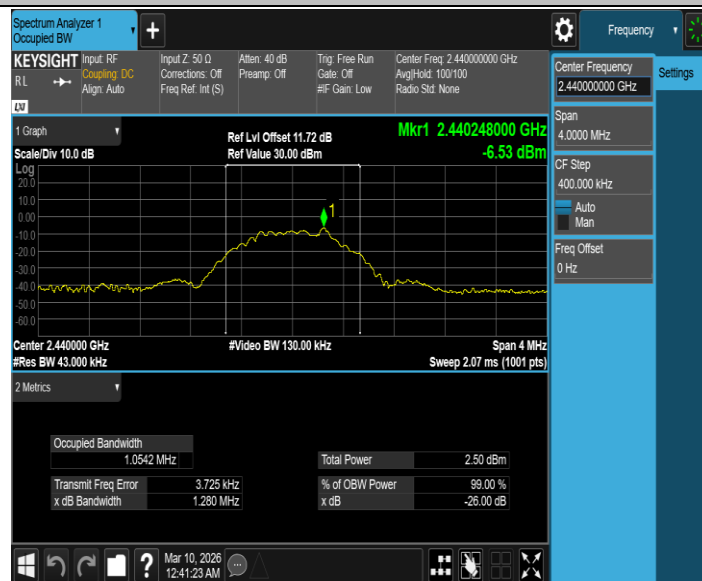
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0509	2401.4786	2402.5295	---	---
		2440	1.0542	2439.4766	2440.5308	---	---
		2480	1.0708	2479.4661	2480.5369	---	---

Test Graphs

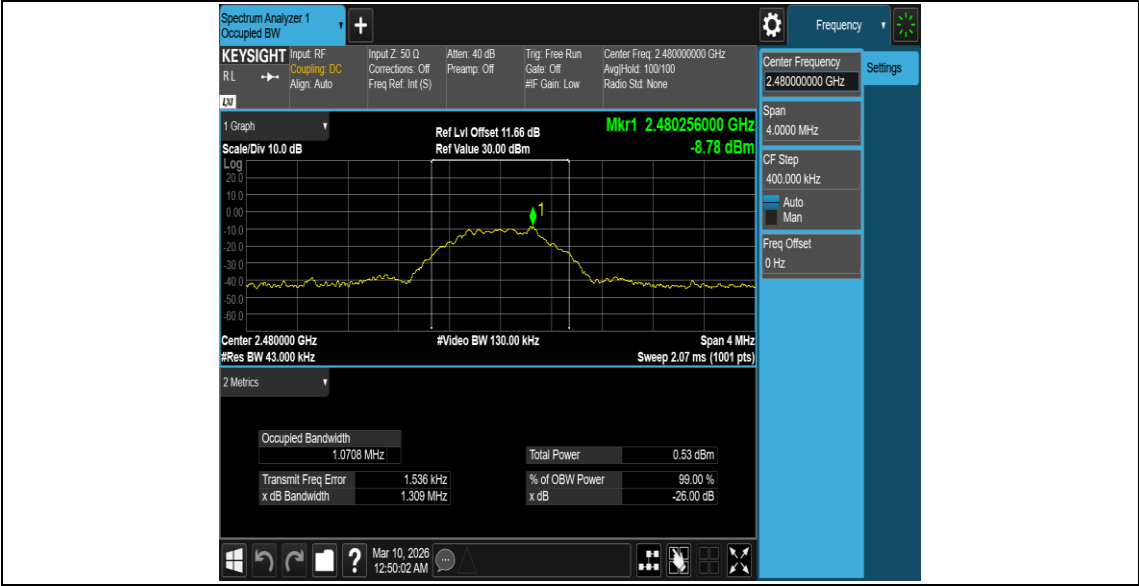
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

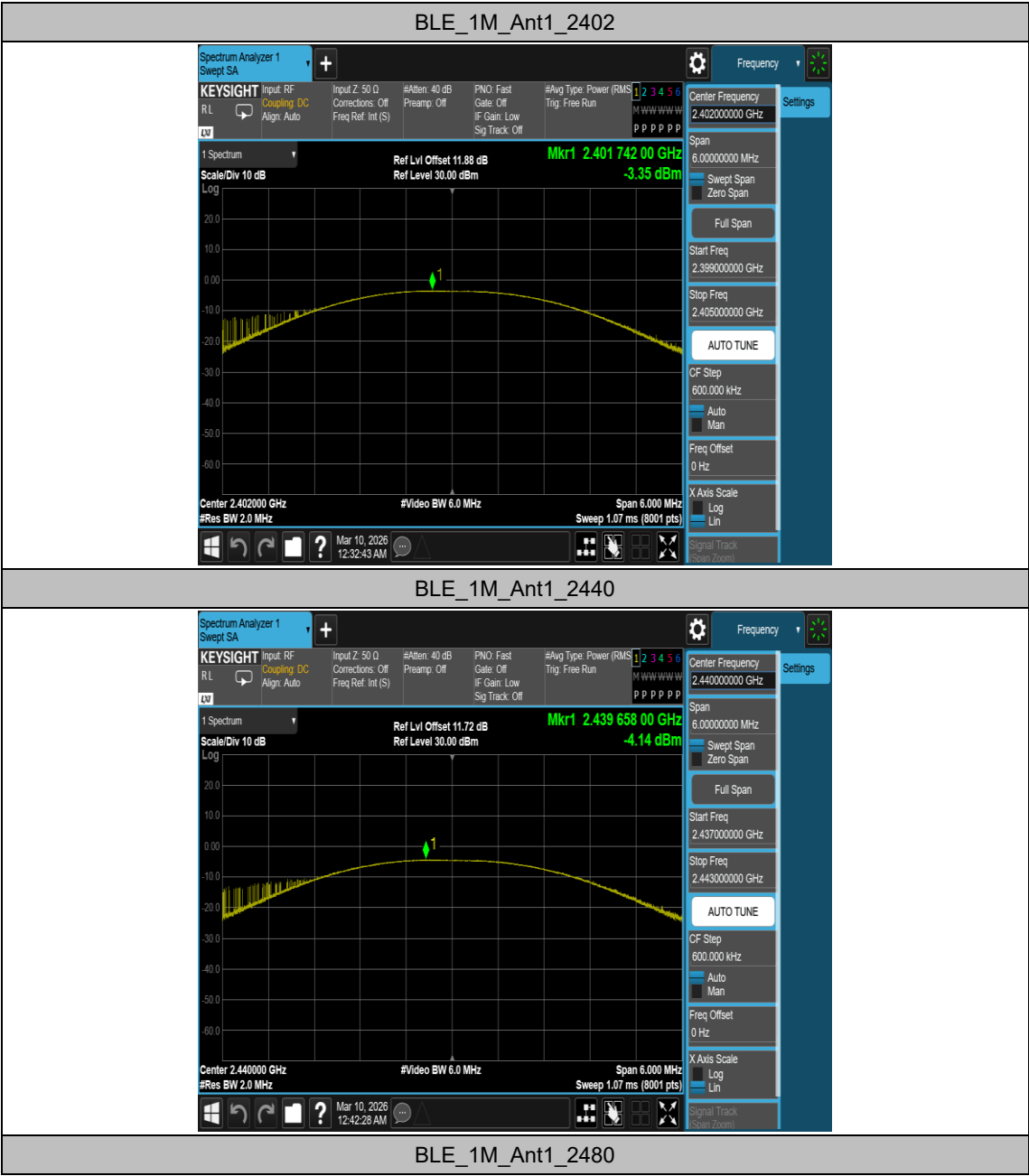


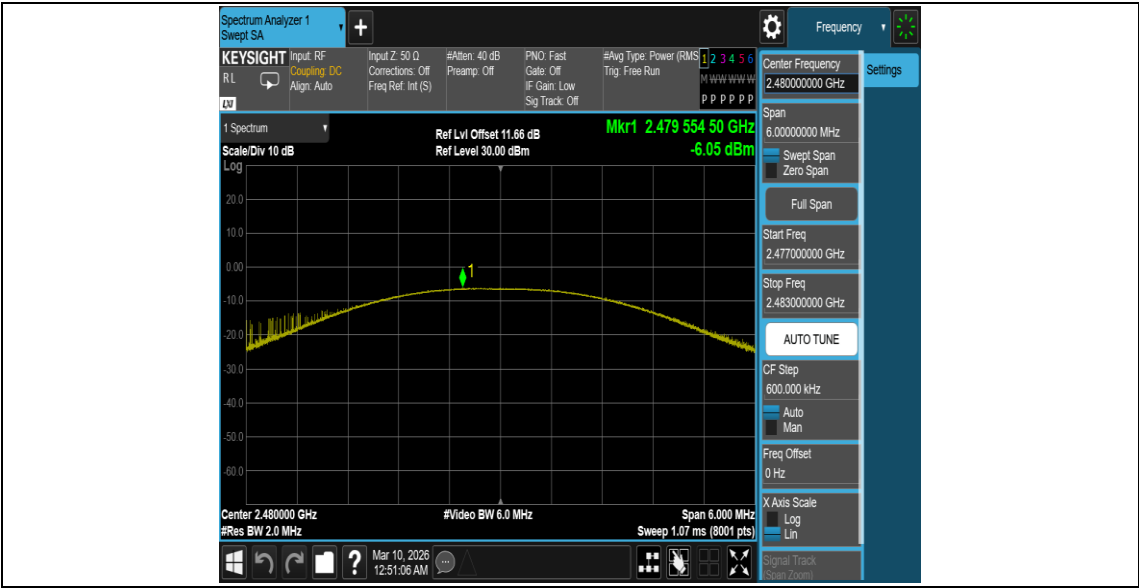
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.35	≤30	PASS
		2440	-4.14	≤30	PASS
		2480	-6.05	≤30	PASS

Test Graphs Peak





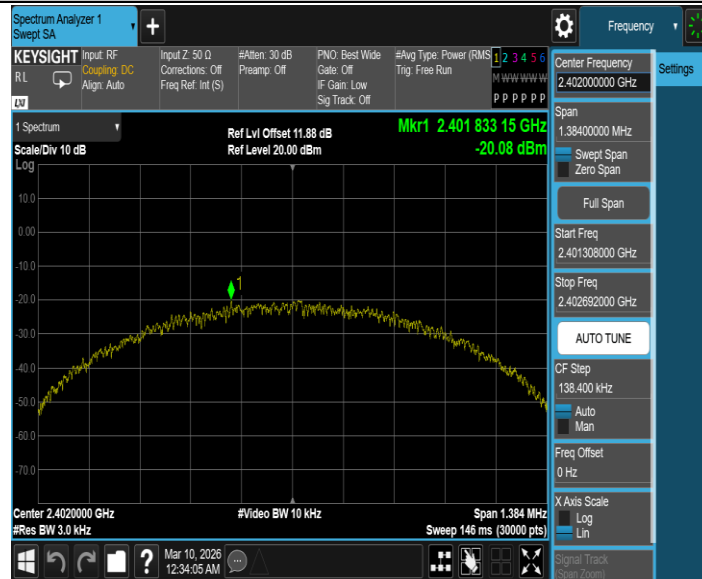
Appendix D: Maximum power spectral density

Test Result

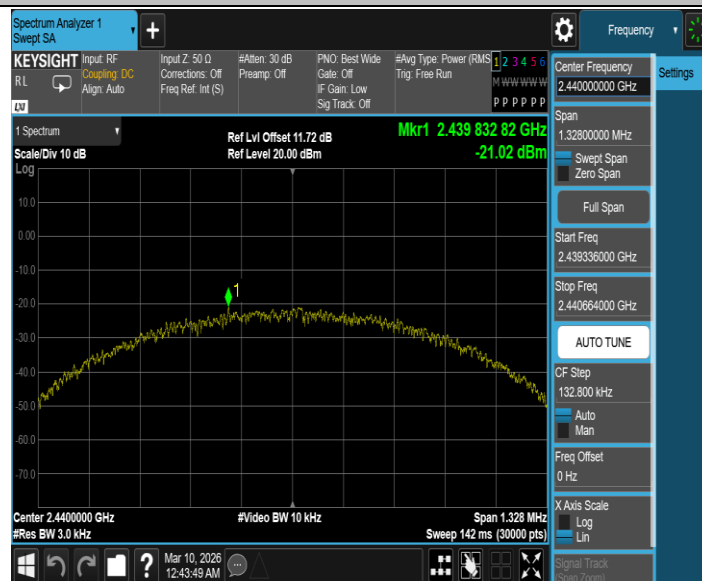
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-20.08	≤8.00	PASS
		2440	-21.02	≤8.00	PASS
		2480	-22.96	≤8.00	PASS

Test Graphs

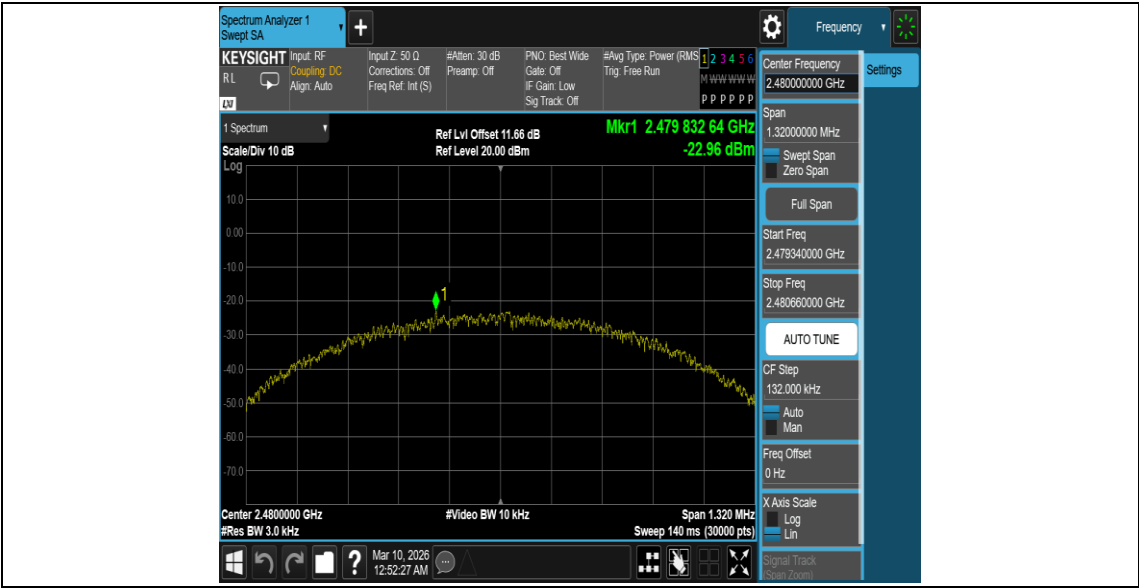
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



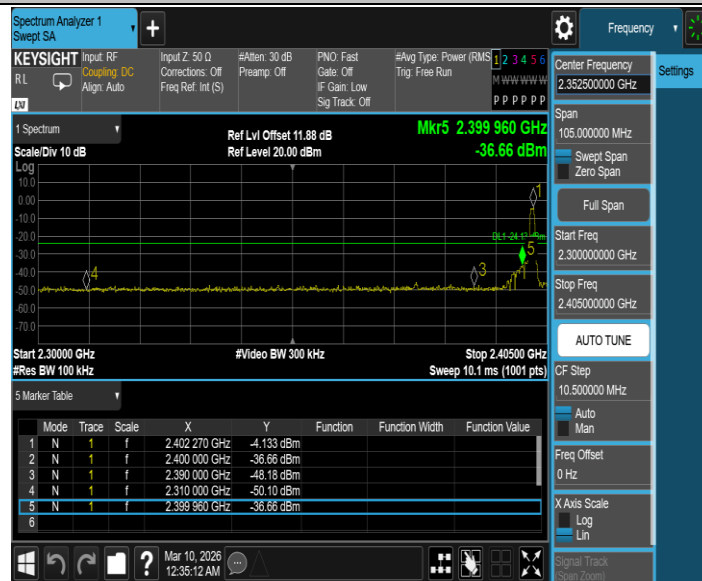
Appendix E: Band edge measurements

Test Result

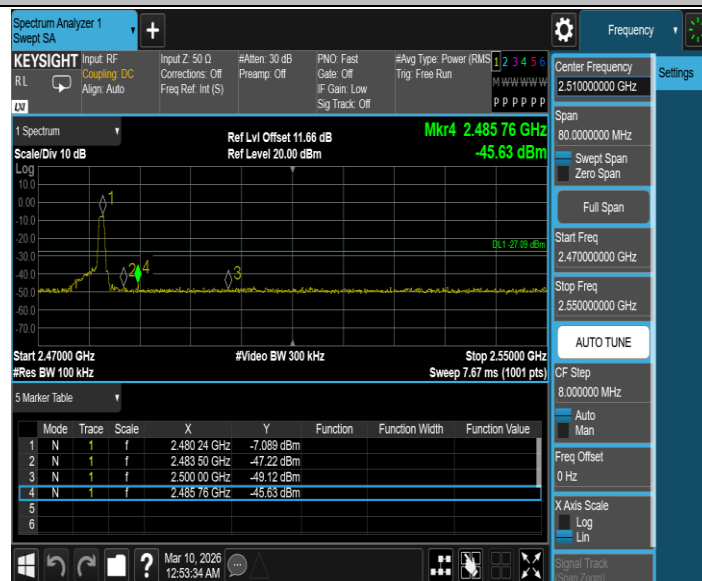
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.13	-36.66	≤-24.13	PASS
		High	2480	-7.09	-45.63	≤-27.09	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



Appendix F: Conducted Spurious Emission

Test Result

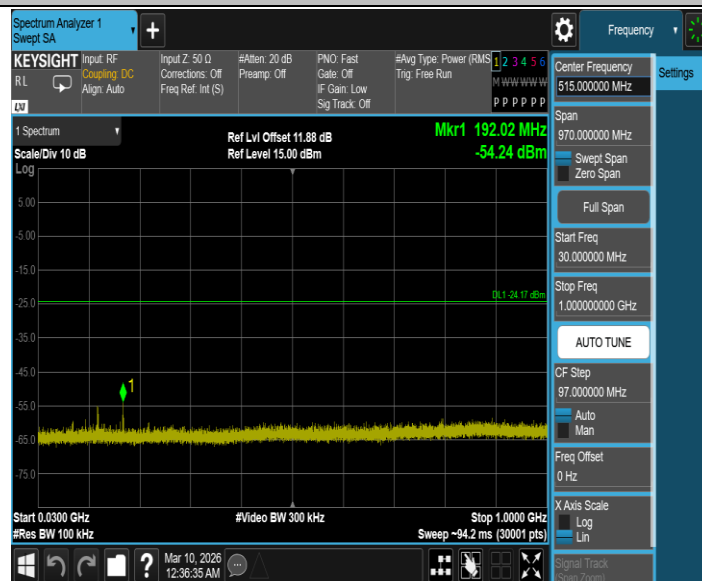
TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.17	-4.17	---	PASS
			30~1000	-4.17	-54.24	≤-24.17	PASS
			1000~26500	-4.17	-50.54	≤-24.17	PASS
		2440	Reference	-5.20	-5.20	---	PASS
			30~1000	-5.20	-55.76	≤-25.2	PASS
			1000~26500	-5.20	-40.68	≤-25.2	PASS
		2480	Reference	-7.17	-7.17	---	PASS
			30~1000	-7.17	-55.25	≤-27.17	PASS
			1000~26500	-7.17	-36.62	≤-27.17	PASS

Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



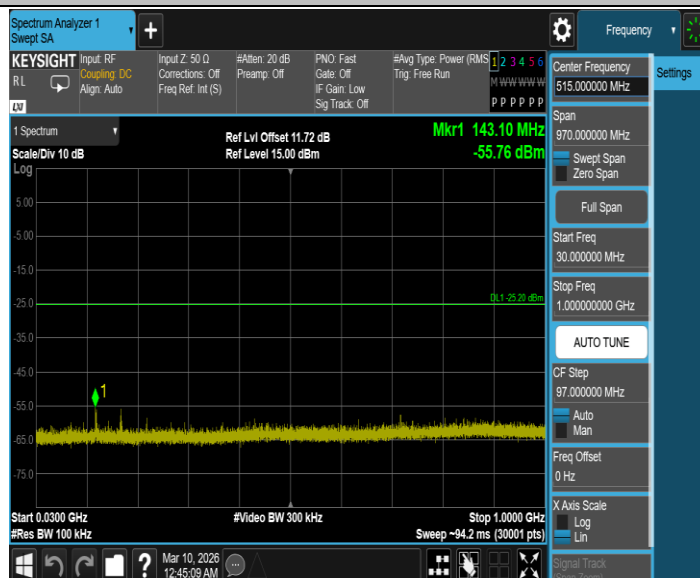
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



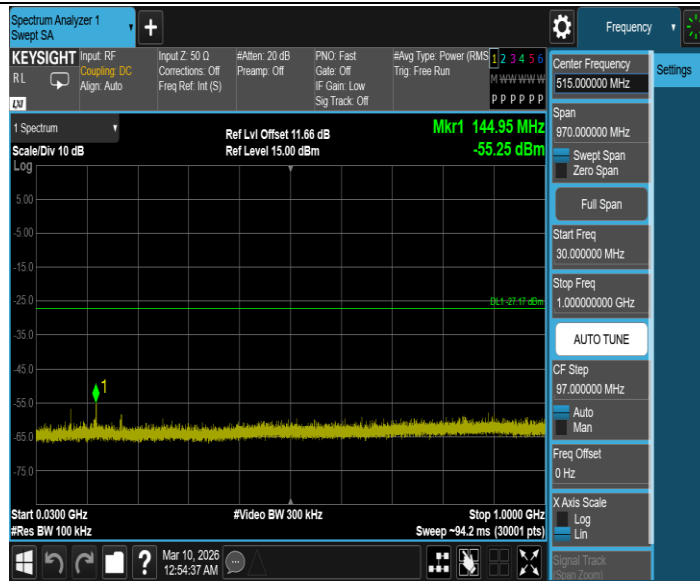
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



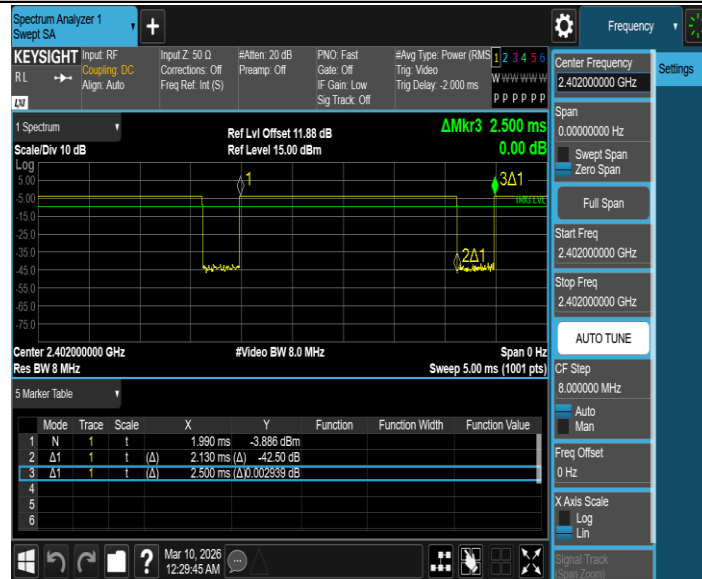
Appendix G: Duty Cycle

Test Result

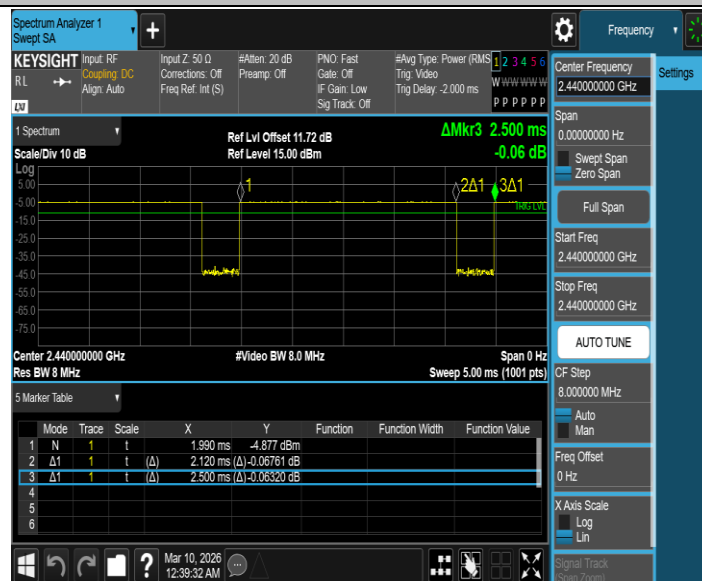
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]
BLE_1M	Ant1	2402	2.13	2.50	85.20
		2440	2.12	2.50	84.80
		2480	2.12	2.50	84.80

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

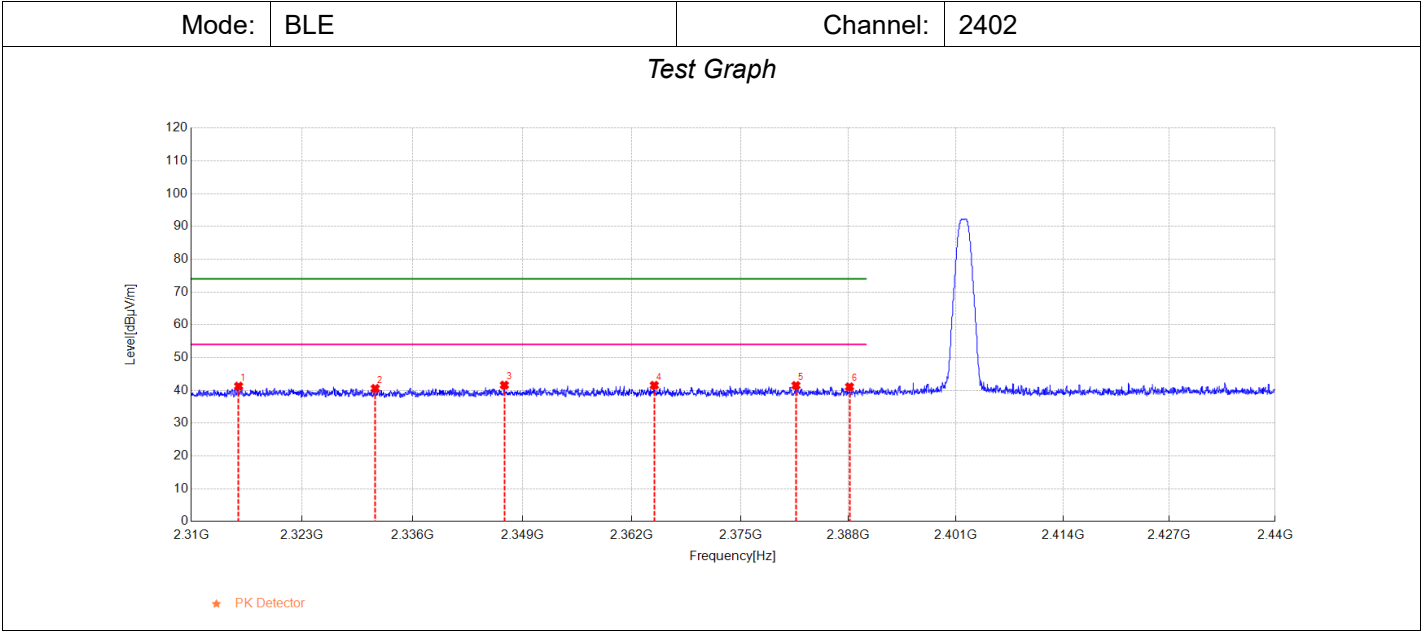


BLE_1M_Ant1_2480



Appendix H: Emissions in Restricted Bands

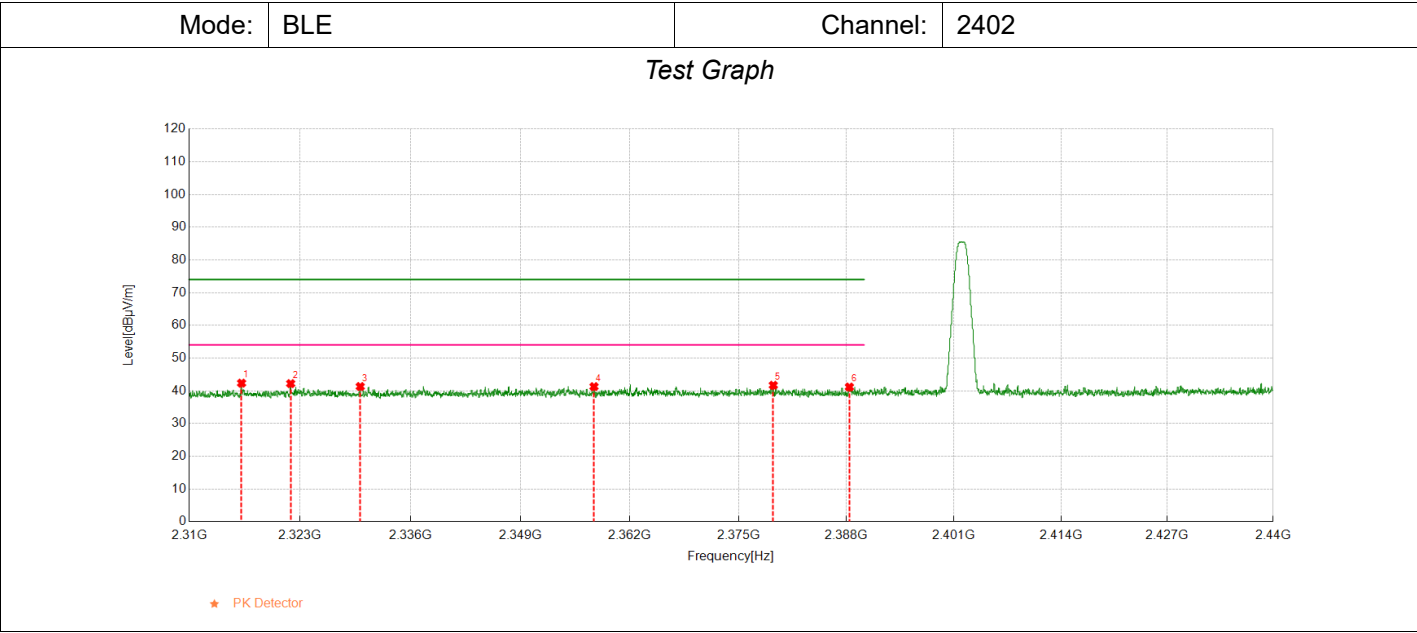
Test Result



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2315.5413	38.42	41.28	2.86	74.00	32.72	150	55	PK	Horizontal	PASS
2	2331.5800	37.80	40.57	2.77	74.00	33.43	150	194	PK	Horizontal	PASS
3	2346.8388	38.64	41.59	2.95	74.00	32.41	150	37	PK	Horizontal	PASS
4	2364.6813	38.55	41.53	2.98	74.00	32.47	150	5	PK	Horizontal	PASS
5	2381.6625	38.45	41.48	3.03	74.00	32.52	150	153	PK	Horizontal	PASS
6	2388.1138	38.14	41.08	2.94	74.00	32.92	150	145	PK	Horizontal	PASS

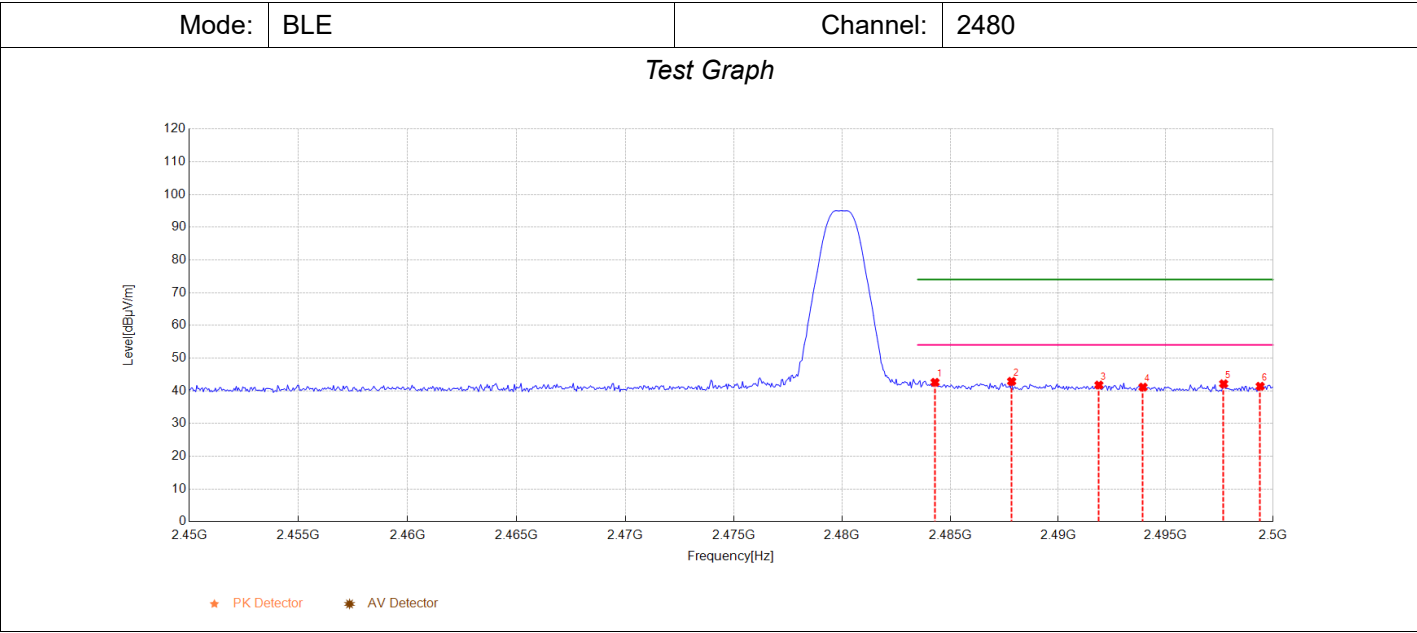
Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



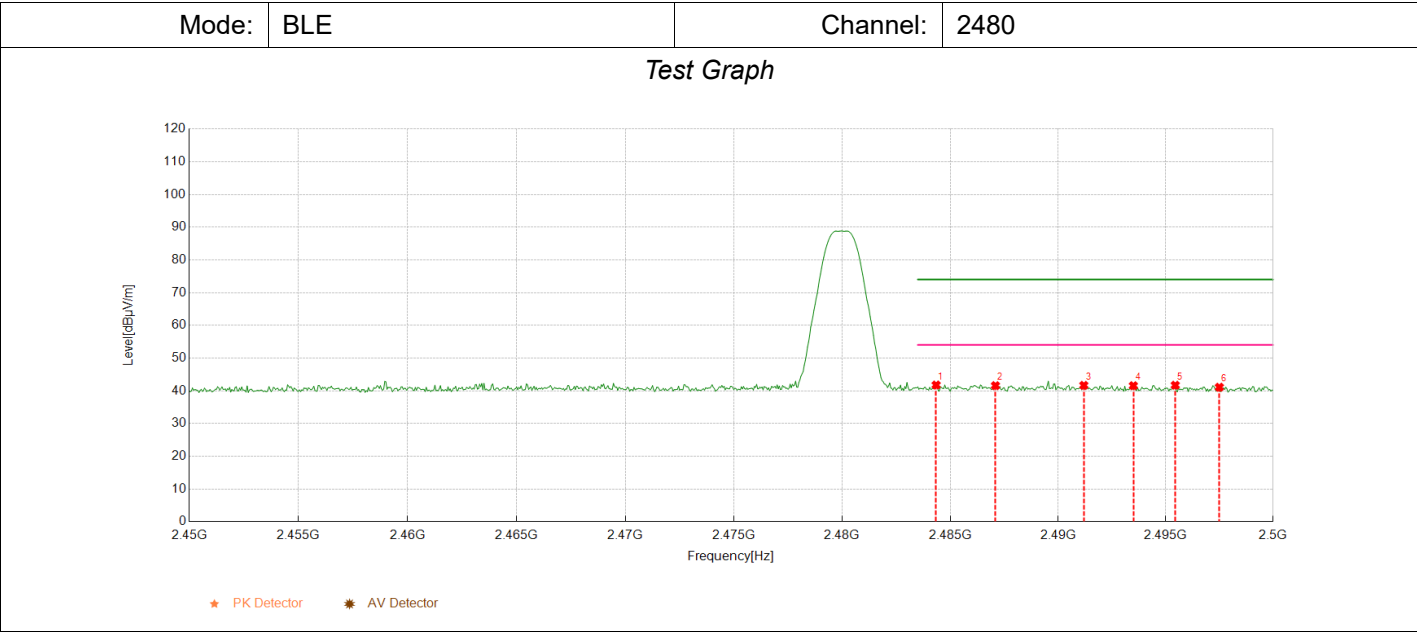
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2316.1263	39.46	42.34	2.88	74.00	31.66	150	318	PK	Vertical	PASS
2	2321.8788	39.32	42.20	2.88	74.00	31.80	150	177	PK	Vertical	PASS
3	2330.0525	38.49	41.30	2.81	74.00	32.70	150	265	PK	Vertical	PASS
4	2357.7263	38.32	41.27	2.95	74.00	32.73	150	323	PK	Vertical	PASS
5	2379.1763	38.64	41.69	3.05	74.00	32.31	150	218	PK	Vertical	PASS
6	2388.3413	38.21	41.15	2.94	74.00	32.85	150	218	PK	Vertical	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2484.3000	39.10	42.58	3.48	74.00	31.42	150	111	PK	Horizontal	PASS
2	2487.8500	39.41	42.88	3.47	74.00	31.12	150	125	PK	Horizontal	PASS
3	2491.9000	38.19	41.75	3.56	74.00	32.25	150	186	PK	Horizontal	PASS
4	2493.9500	37.52	41.11	3.59	74.00	32.89	150	54	PK	Horizontal	PASS
5	2497.7000	38.56	42.14	3.58	74.00	31.86	150	360	PK	Horizontal	PASS
6	2499.4000	37.87	41.37	3.50	74.00	32.63	150	307	PK	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2484.3500	38.27	41.76	3.49	74.00	32.24	150	92	PK	Vertical	PASS
2	2487.1000	38.04	41.57	3.53	74.00	32.43	150	114	PK	Vertical	PASS
3	2491.2000	38.11	41.66	3.55	74.00	32.34	150	114	PK	Vertical	PASS
4	2493.5000	37.98	41.56	3.58	74.00	32.44	150	0	PK	Vertical	PASS
5	2495.4500	38.14	41.70	3.56	74.00	32.30	150	53	PK	Vertical	PASS
6	2497.5000	37.51	41.09	3.58	74.00	32.91	150	108	PK	Vertical	PASS

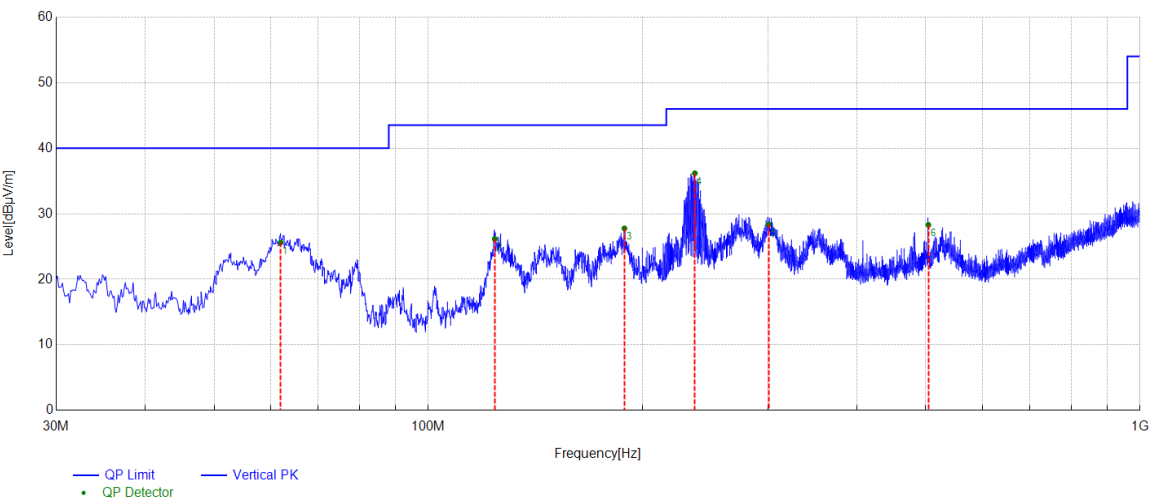
Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Appendix I: Spurious emissions

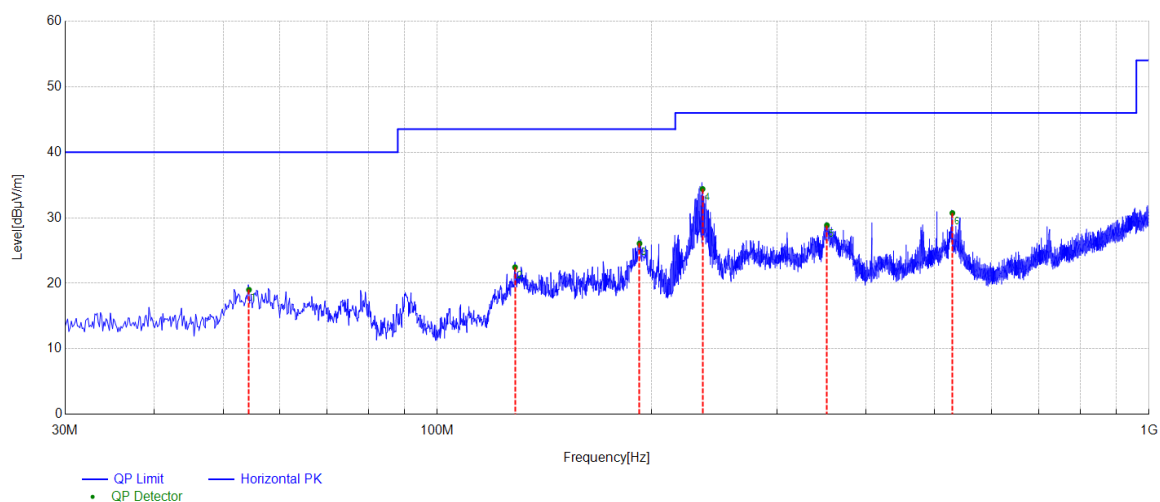
Test Result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the Emissions in the frequency band 18GHz-26.5GHz are more than 20dB below the limit are not reported.

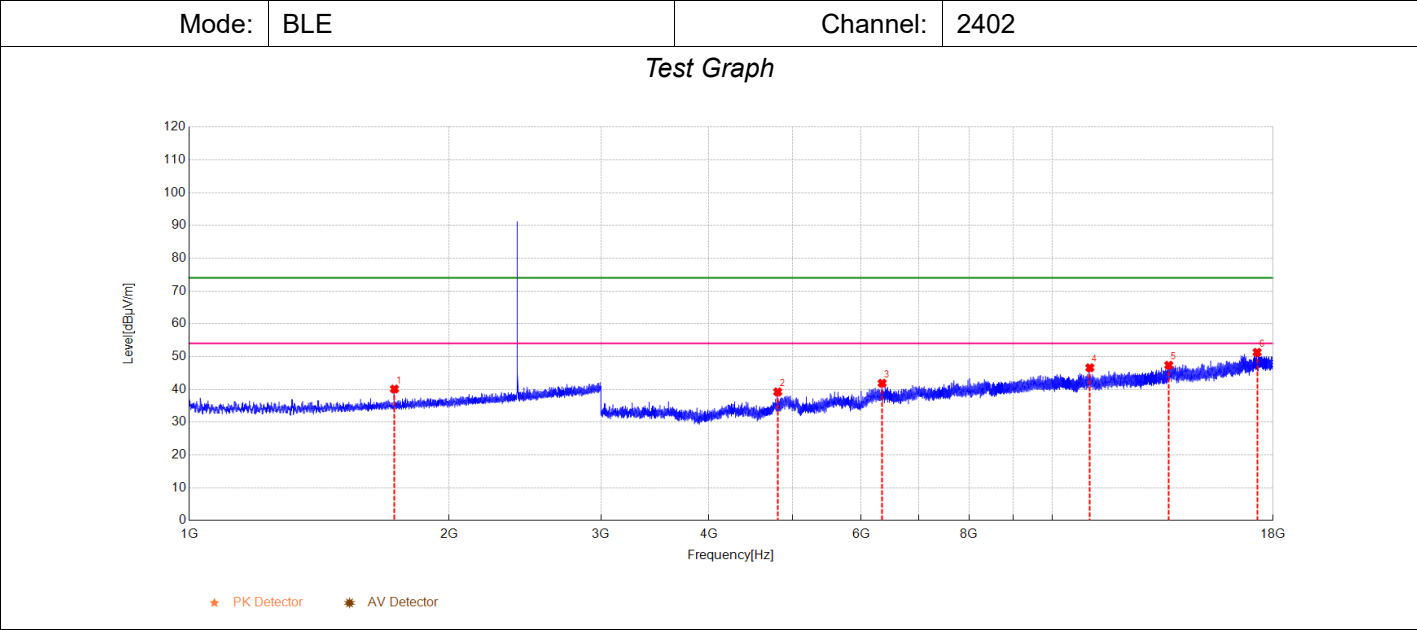
During the test, the Radiates Emission from 9kHz to 1GHz was performed in all modes with all channels, the test data of the worst-case condition was recorded in this report.



QP Final Data List									
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	62.0100	-15.61	25.60	40.00	14.40	100	197	Vertical	PASS
2	123.9688	-15.61	26.16	43.50	17.34	100	259	Vertical	PASS
3	188.5950	-16.63	27.77	43.50	15.73	100	185	Vertical	PASS
4	236.8525	-16.73	36.18	46.00	9.82	100	278	Vertical	PASS
5	300.6300	-13.94	28.37	46.00	17.63	100	40	Vertical	PASS
6	504.0875	-9.74	28.32	46.00	17.68	200	236	Vertical	PASS

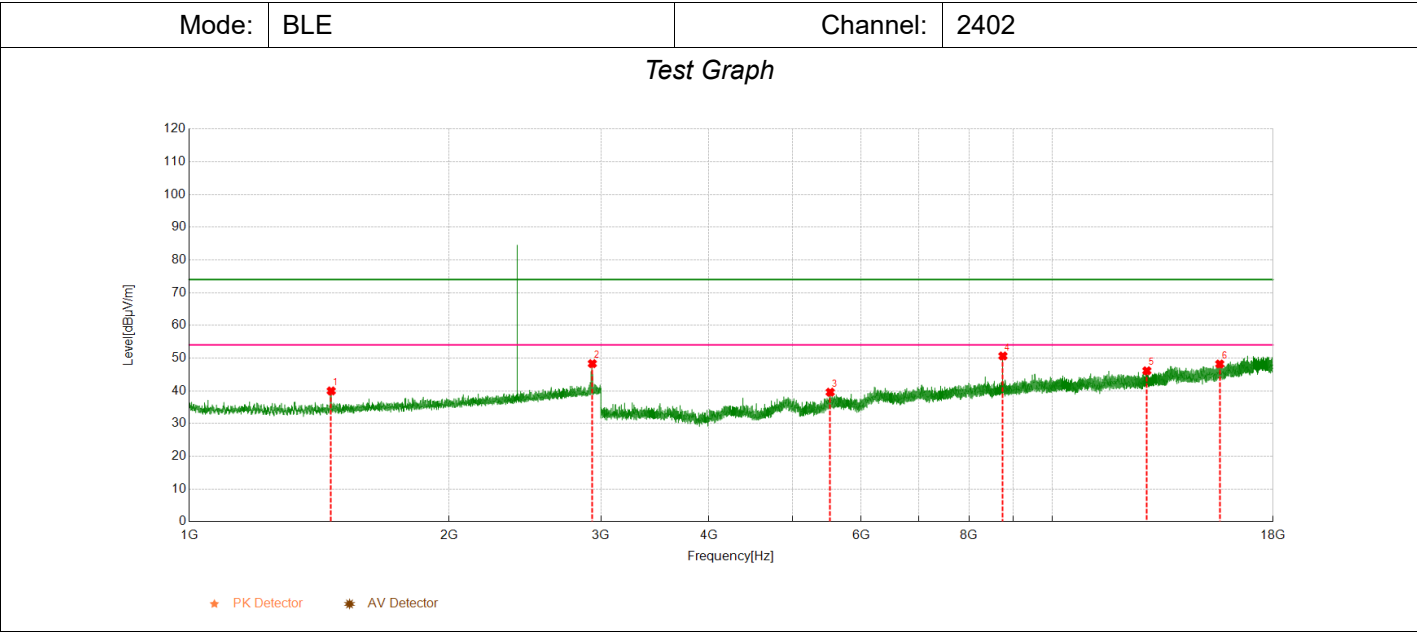


QP Final Data List									
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	54.3712	-14.73	19.02	40.00	20.98	200	163	Horizontal	PASS
2	128.5762	-15.19	22.46	43.50	21.04	200	28	Horizontal	PASS
3	192.3538	-16.91	26.08	43.50	17.42	200	230	Horizontal	PASS
4	235.8825	-16.79	34.39	46.00	11.61	200	62	Horizontal	PASS
5	352.6462	-13.18	28.86	46.00	17.14	200	178	Horizontal	PASS
6	529.1862	-8.99	30.72	46.00	15.28	100	288	Horizontal	PASS



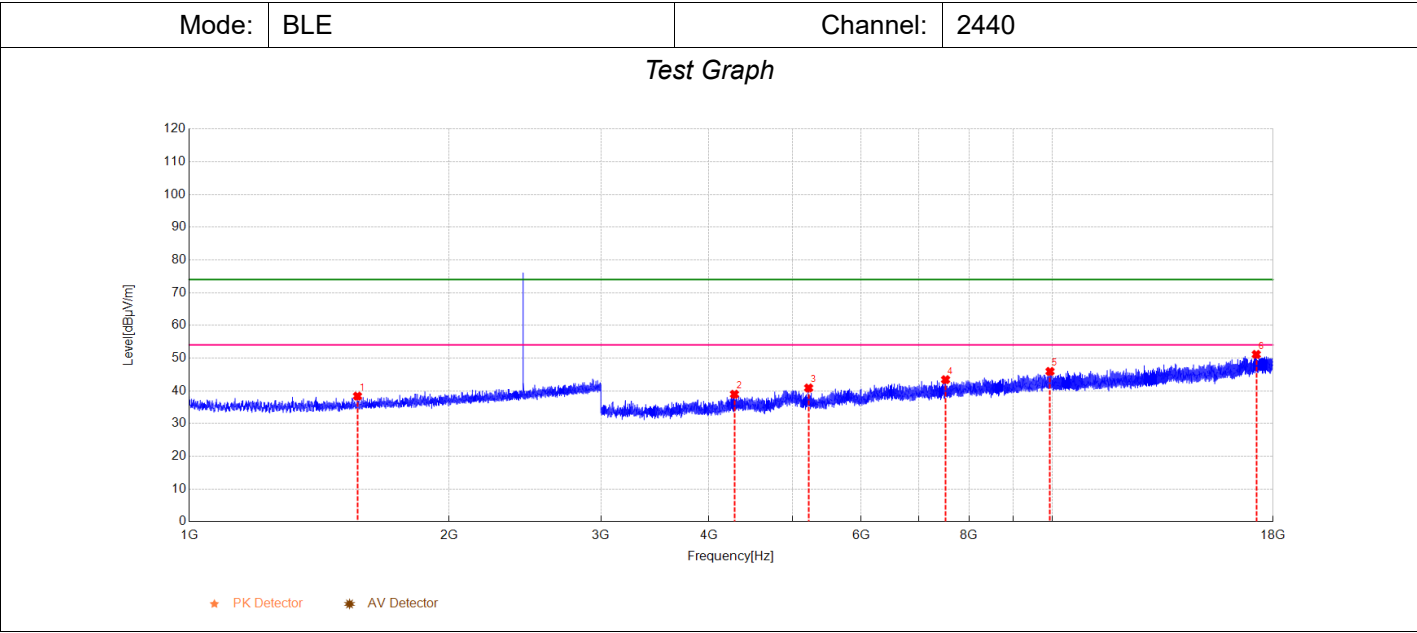
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1728.8000	39.46	40.11	0.65	74.00	33.89	150	4	PK	Horizontal	PASS
2	4804.0000	53.76	39.23	-14.53	74.00	34.77	150	165	PK	Horizontal	PASS
3	6347.0000	52.10	41.87	-10.23	74.00	32.13	150	110	PK	Horizontal	PASS
4	11043.5000	49.29	46.59	-2.70	74.00	27.41	150	241	PK	Horizontal	PASS
5	13630.0000	46.72	47.37	0.65	74.00	26.63	150	234	PK	Horizontal	PASS
6	17251.0000	47.49	51.29	3.80	74.00	22.71	150	325	PK	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level



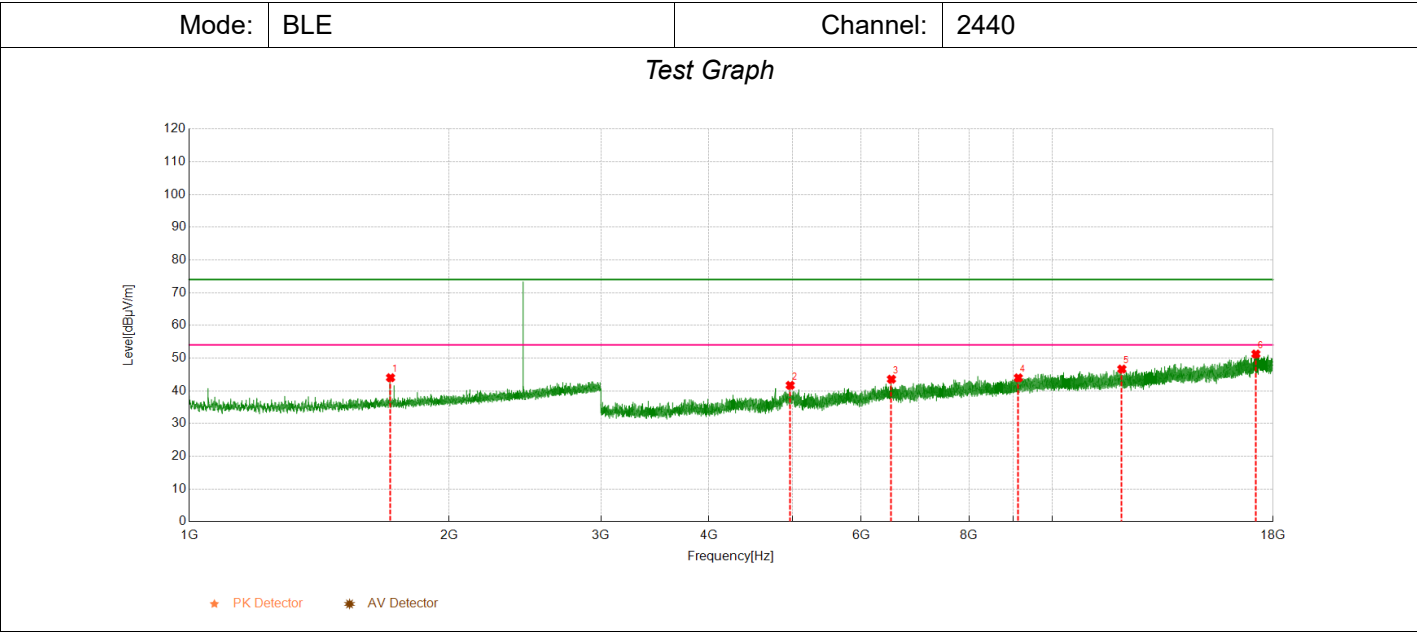
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1460.6000	40.03	39.96	-0.07	74.00	34.04	150	77	PK	Vertical	PASS
2	2930.6000	42.52	48.30	5.78	74.00	25.70	150	265	PK	Vertical	PASS
3	5526.0000	52.81	39.58	-13.23	74.00	34.42	150	209	PK	Vertical	PASS
4	8758.5000	57.34	50.64	-6.70	74.00	23.36	150	37	PK	Vertical	PASS
5	12857.0000	46.62	46.12	-0.50	74.00	27.88	150	278	PK	Vertical	PASS
6	15616.5000	45.23	48.19	2.96	74.00	25.81	150	163	PK	Vertical	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level



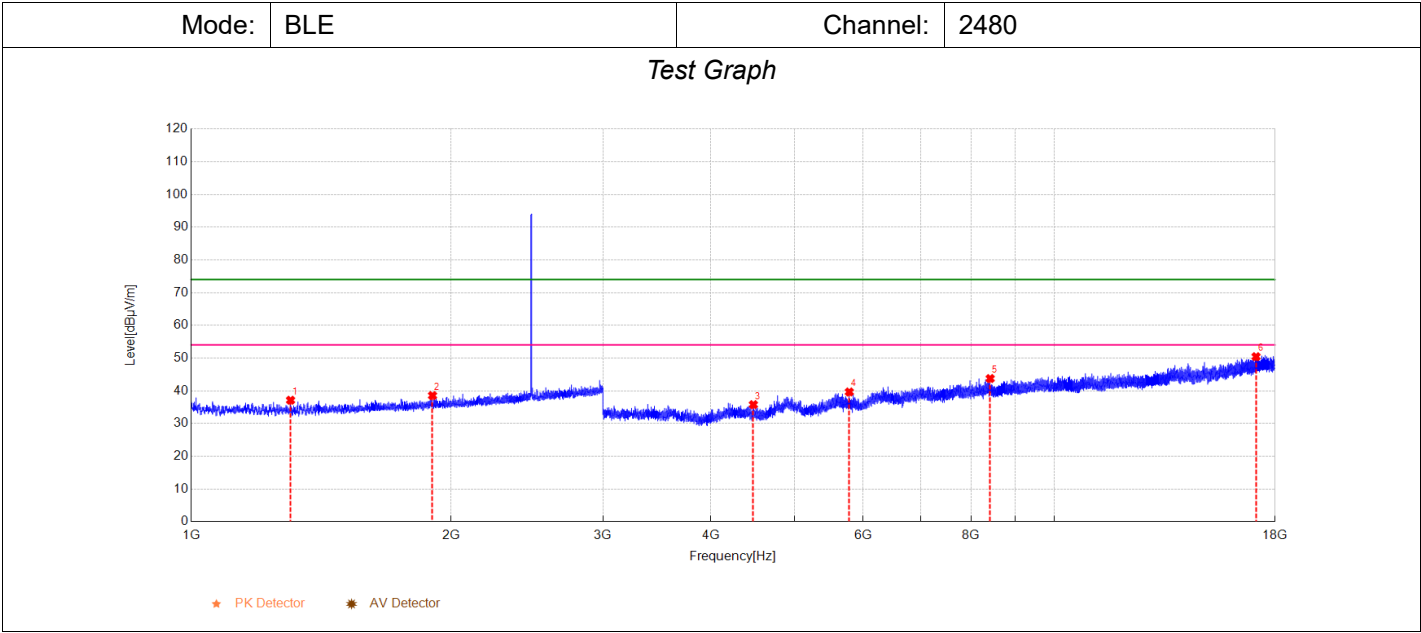
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1566.6000	38.14	38.37	0.23	74.00	35.63	150	180	PK	Horizontal	PASS
2	4280.5000	55.27	38.95	-16.32	74.00	35.05	150	160	PK	Horizontal	PASS
3	5217.0000	54.27	40.87	-13.40	74.00	33.13	150	100	PK	Horizontal	PASS
4	7516.5000	52.42	43.40	-9.02	74.00	30.60	150	50	PK	Horizontal	PASS
5	9931.0000	50.21	45.92	-4.29	74.00	28.08	150	170	PK	Horizontal	PASS
6	17214.0000	47.48	51.12	3.64	74.00	22.88	150	170	PK	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level



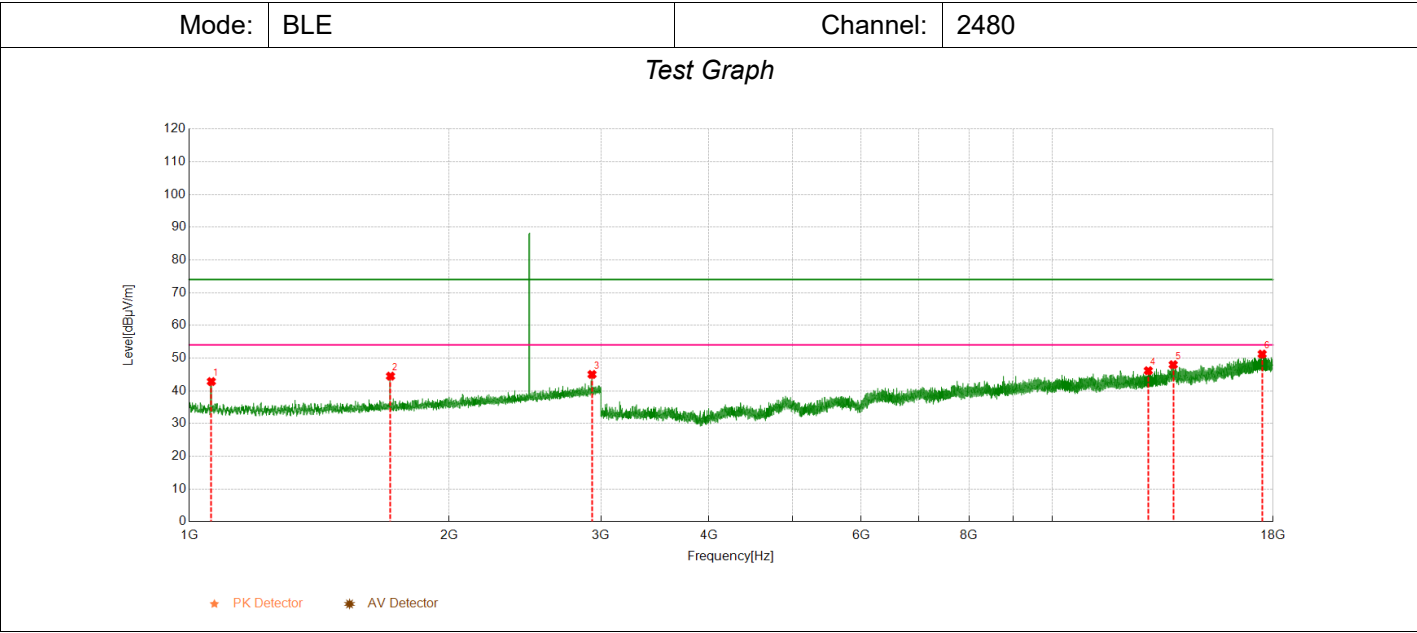
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1711.0000	43.29	44.00	0.71	74.00	30.00	150	70	PK	Vertical	PASS
2	4967.0000	55.54	41.68	-13.86	74.00	32.32	150	300	PK	Vertical	PASS
3	6506.5000	53.88	43.54	-10.34	74.00	30.46	150	140	PK	Vertical	PASS
4	9126.5000	49.90	43.96	-5.94	74.00	30.04	150	60	PK	Vertical	PASS
5	12029.0000	48.43	46.63	-1.80	74.00	27.37	150	320	PK	Vertical	PASS
6	17195.5000	47.34	51.24	3.90	74.00	22.76	150	330	PK	Vertical	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1303.6000	37.53	37.12	-0.41	74.00	36.88	150	50	PK	Horizontal	PASS
2	1903.4000	37.02	38.55	1.53	74.00	35.45	150	4	PK	Horizontal	PASS
3	4478.5000	51.82	35.77	-16.05	74.00	38.23	150	159	PK	Horizontal	PASS
4	5784.0000	52.00	39.65	-12.35	74.00	34.35	150	324	PK	Horizontal	PASS
5	8421.0000	50.96	43.75	-7.21	74.00	30.25	150	159	PK	Horizontal	PASS
6	17113.0000	46.48	50.43	3.95	74.00	23.57	150	0	PK	Horizontal	PASS

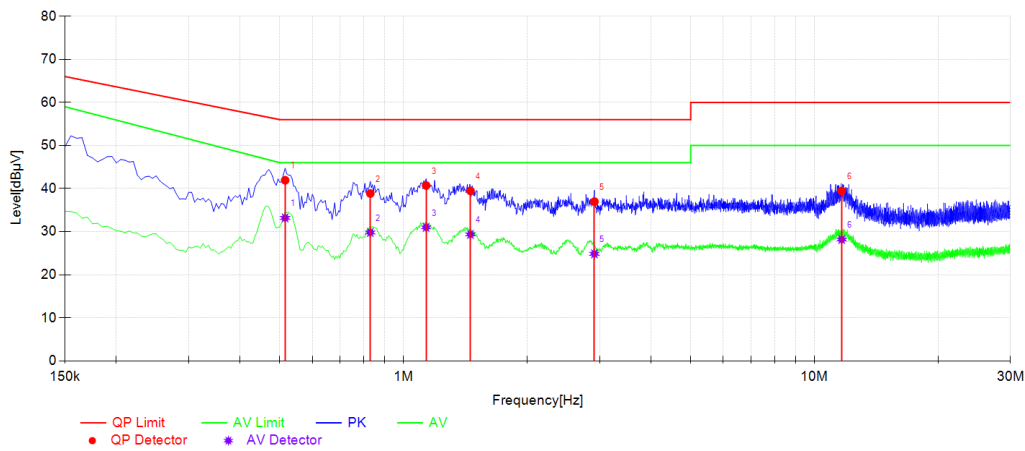
Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level



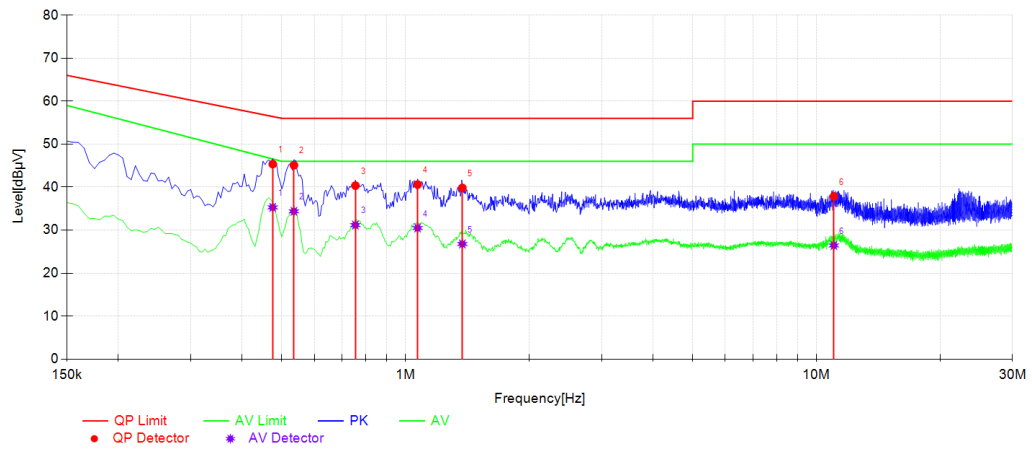
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1061.0000	43.21	42.83	-0.38	74.00	31.17	150	36	PK	Vertical	PASS
2	1710.8000	43.76	44.47	0.71	74.00	29.53	150	137	PK	Vertical	PASS
3	2928.2000	39.26	45.00	5.74	74.00	29.00	150	251	PK	Vertical	PASS
4	12907.0000	46.20	46.14	-0.06	74.00	27.86	150	24	PK	Vertical	PASS
5	13792.5000	46.88	47.97	1.09	74.00	26.03	150	248	PK	Vertical	PASS
6	17486.5000	46.64	51.22	4.58	74.00	22.78	150	325	PK	Vertical	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Appendix J: Conducted emission AC power port



Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type	Verdict
1	0.515	10.25	41.94	56.00	14.06	33.20	46.00	12.80	N	PASS
2	0.83	10.26	38.87	56.00	17.13	29.82	46.00	16.18	N	PASS
3	1.135	10.28	40.72	56.00	15.28	31.00	46.00	15.00	N	PASS
4	1.455	10.31	39.47	56.00	16.53	29.37	46.00	16.63	N	PASS
5	2.915	10.39	36.99	56.00	19.01	24.86	46.00	21.14	N	PASS
6	11.655	10.51	39.45	60.00	20.55	28.18	50.00	21.82	N	PASS



Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type	Verdict
1	0.475	10.26	45.36	56.43	11.07	35.30	46.55	11.25	L1	PASS
2	0.535	10.25	45.11	56.00	10.89	34.38	46.00	11.62	L1	PASS
3	0.755	10.28	40.36	56.00	15.64	31.19	46.00	14.81	L1	PASS
4	1.07	10.35	40.61	56.00	15.39	30.50	46.00	15.50	L1	PASS
5	1.375	10.33	39.83	56.00	16.17	26.79	46.00	19.21	L1	PASS
6	11.03	10.46	37.87	60.00	22.13	26.44	50.00	23.56	L1	PASS