

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.628	2401.624	2402.252	0.5	PASS
		2440	0.640	2439.616	2440.256	0.5	PASS
		2480	0.708	2479.580	2480.288	0.5	PASS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2480



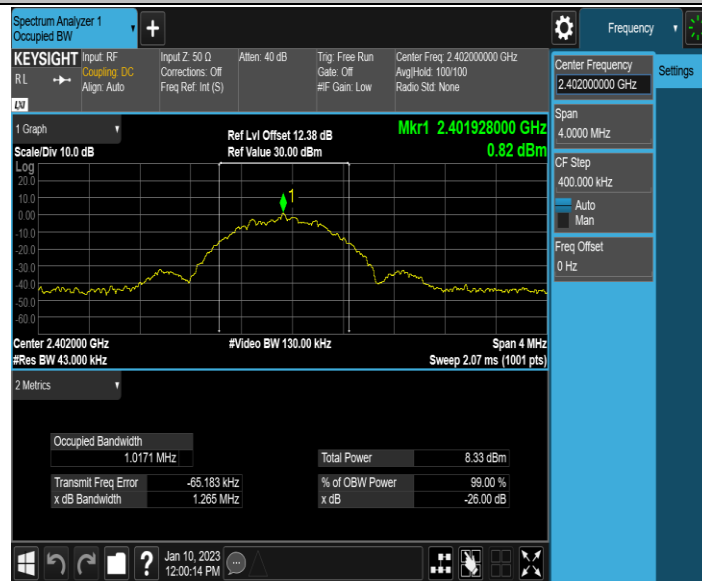
Appendix B: Occupied Channel Bandwidth

Test Result

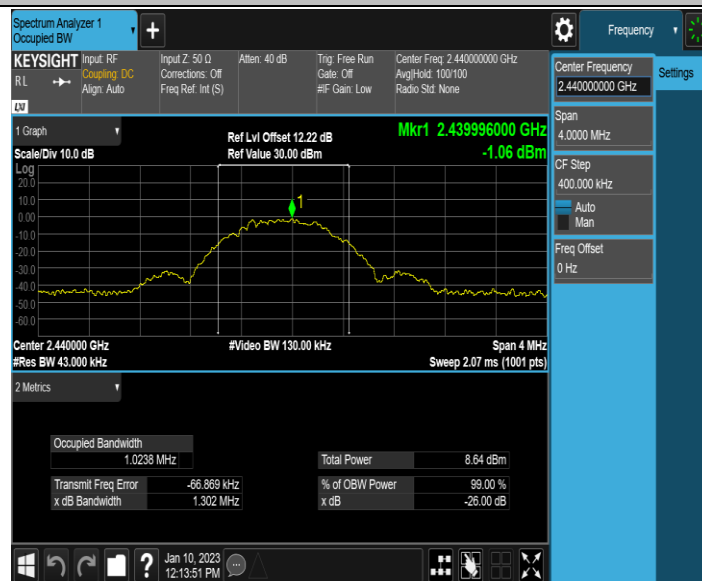
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0171	2401.4263	2402.4434	---	---
		2440	1.0238	2439.4212	2440.4450	---	---
		2480	1.0181	2479.4236	2480.4417	---	---

Test Graphs

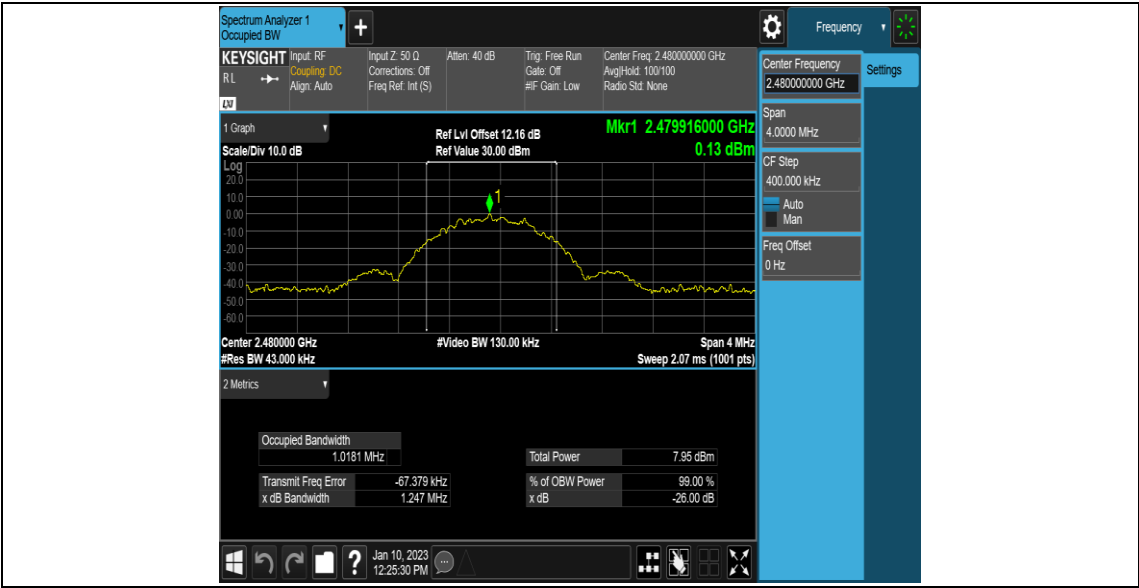
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Conducted Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.8	≤30	PASS
		2440	2.59	≤30	PASS
		2480	1.56	≤30	PASS

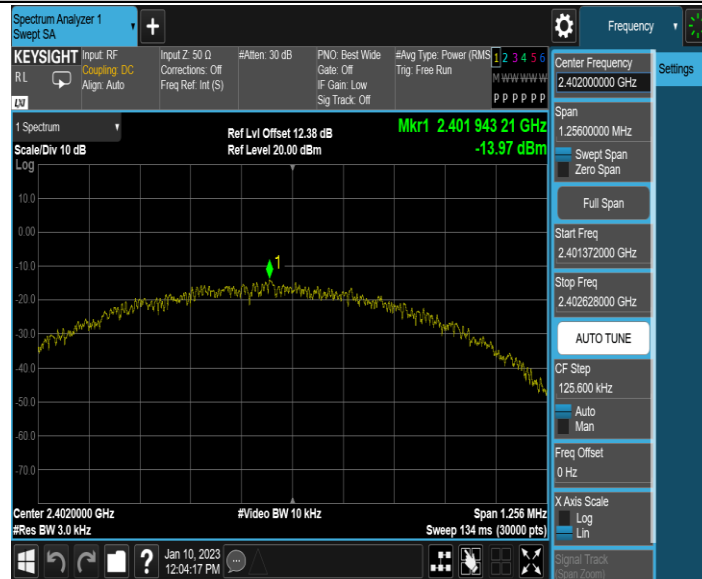
Appendix D: Maximum power spectral density

Test Result

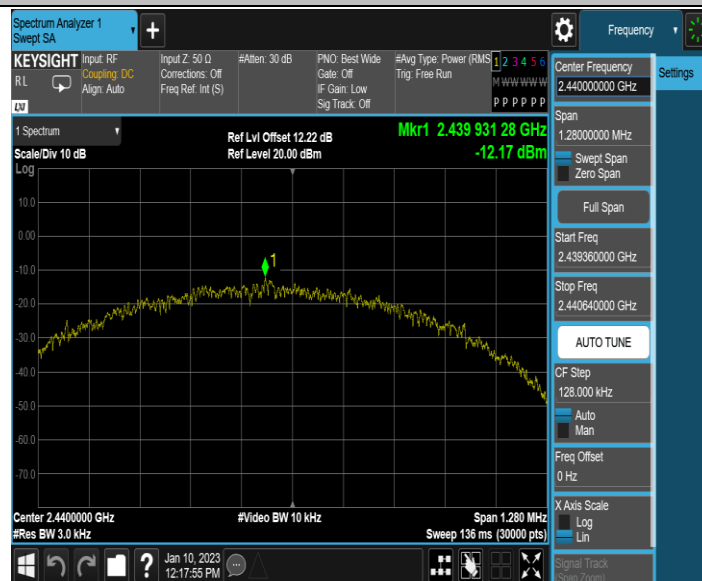
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.97	≤8.00	PASS
		2440	-12.17	≤8.00	PASS
		2480	-13.66	≤8.00	PASS

Test Graphs

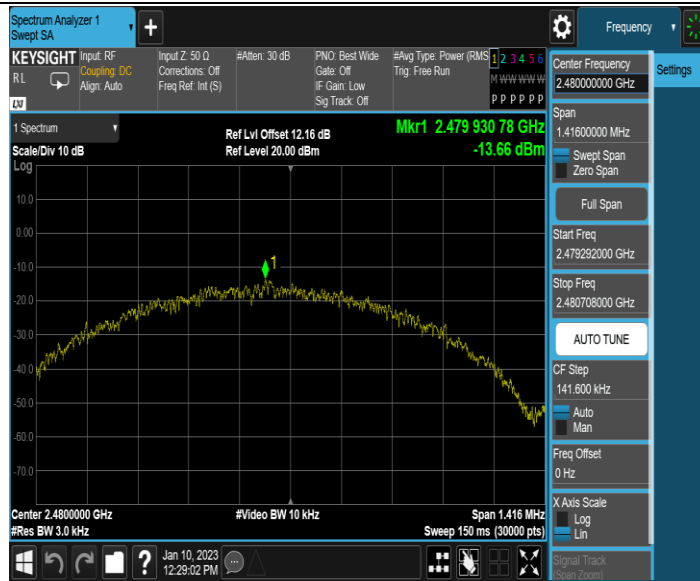
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	1.14	-46.43	≤-18.86	PASS
		High	2480	0.89	-45.36	≤-19.11	PASS

Test Graphs



Appendix F: Conducted Spurious Emission

Test Result

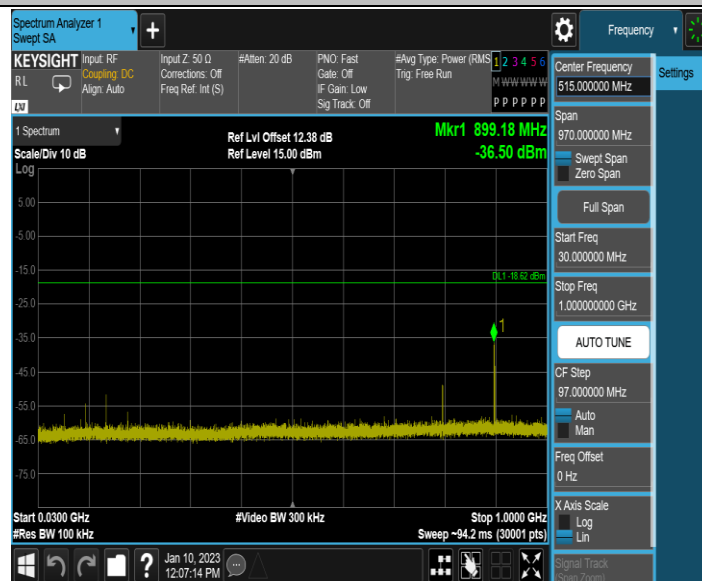
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	1.38	1.38	---	PASS
			30~1000	1.38	-36.5	≤-18.62	PASS
			1000~26500	1.38	-49.44	≤-18.62	PASS
		2440	Reference	2.22	2.22	---	PASS
			30~1000	2.22	-48.67	≤-17.78	PASS
			1000~26500	2.22	-49.59	≤-17.78	PASS
		2480	Reference	0.91	0.91	---	PASS
			30~1000	0.91	-47.45	≤-19.09	PASS
			1000~26500	0.91	-49.47	≤-19.09	PASS

Test Graphs

BLE_1M_Ant1_2402_0~Reference



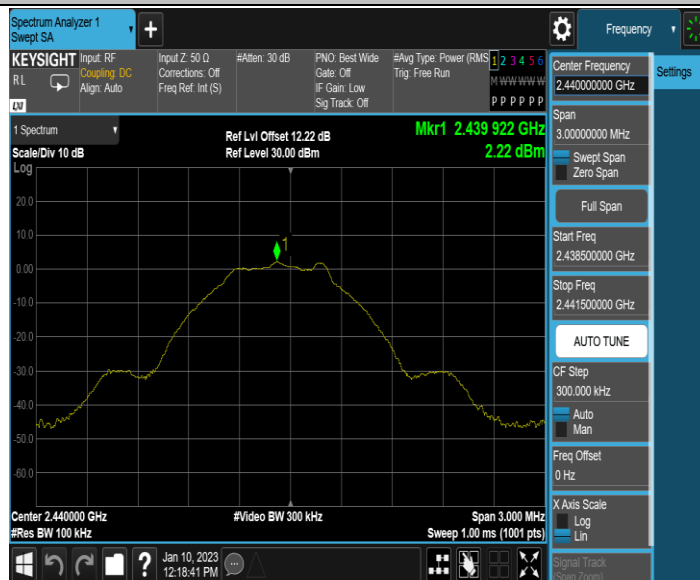
BLE_1M_Ant1_2402_30~1000



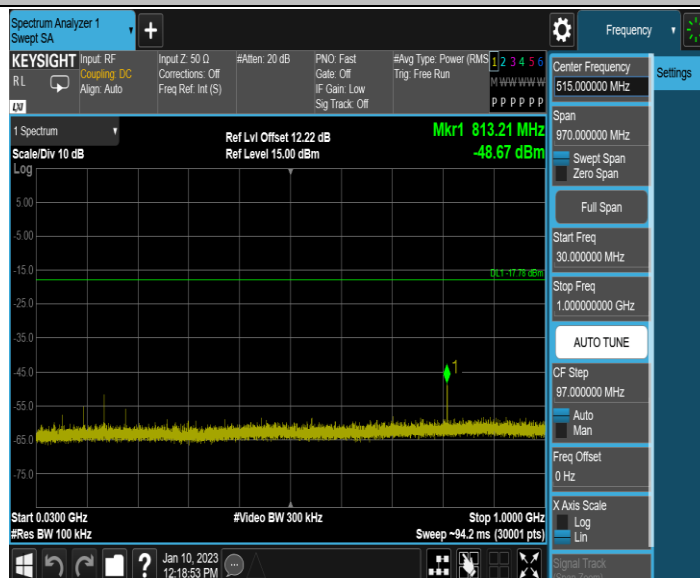
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



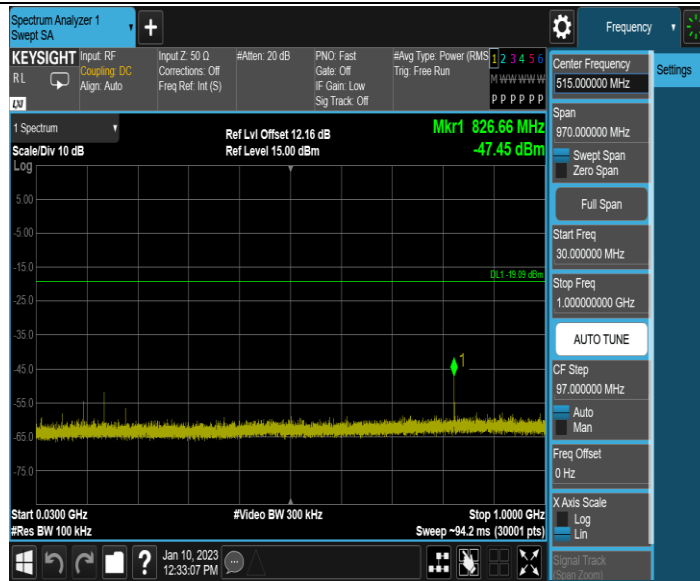
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



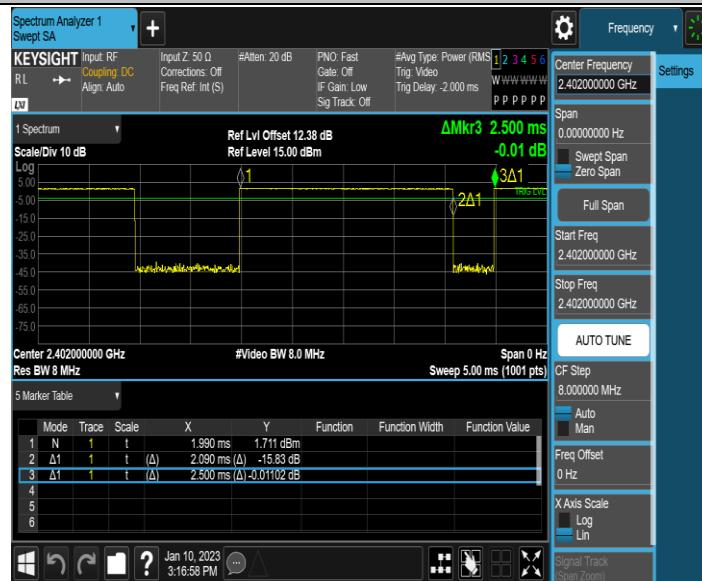
Appendix G: Duty Cycle

Test Result

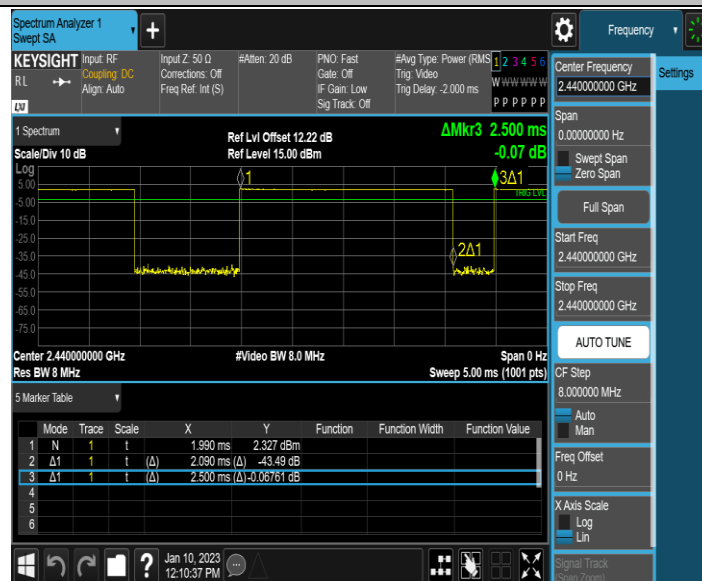
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.09	2.50	83.60	0.78
		2440	2.09	2.50	83.60	0.78
		2480	2.09	2.50	83.60	0.78

Test Graphs

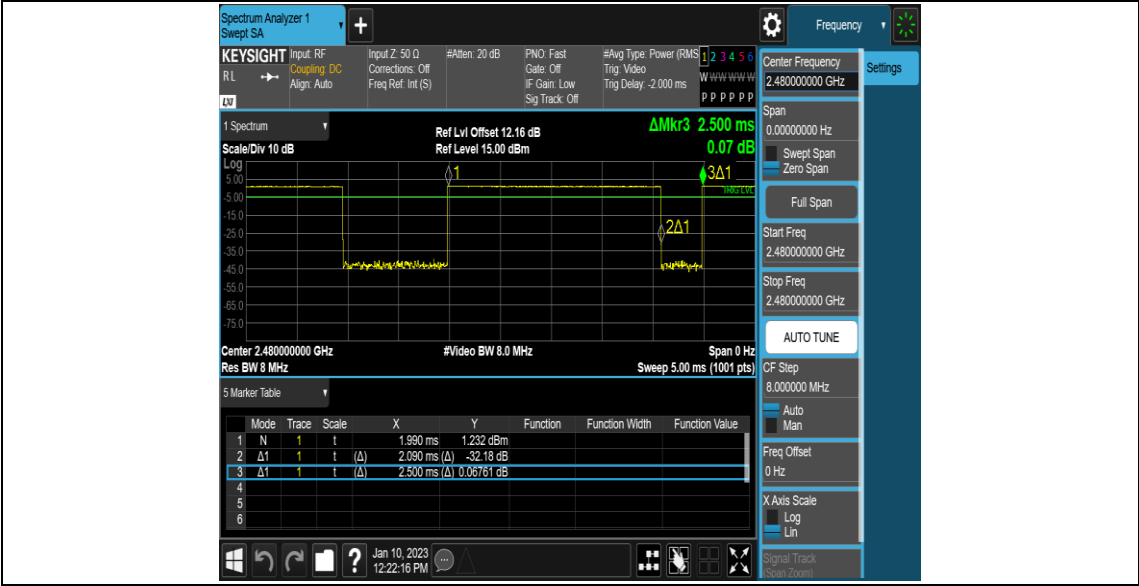
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix H: Emissions in Restricted Bands

Test Result

Mode:	2402
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PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2310	39.41	46.87	7.46	74.00	27.13	Horizontal	PASS
2	2325.77	41.11	48.57	7.46	74.00	25.43	Horizontal	PASS
3	2341.79	41.06	48.51	7.45	74.00	25.49	Horizontal	PASS
4	2361.01	40.85	48.30	7.45	74.00	25.70	Horizontal	PASS
5	2372.86	40.92	48.37	7.45	74.00	25.63	Horizontal	PASS
6	2390	39.65	47.10	7.45	74.00	26.90	Horizontal	PASS

PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2310	40.06	47.52	7.46	74.00	26.48	Vertical	PASS
2	2333.14	41.90	49.35	7.45	74.00	24.65	Vertical	PASS
3	2349.47	41.94	49.40	7.46	74.00	24.60	Vertical	PASS
4	2364.21	40.98	48.43	7.45	74.00	25.57	Vertical	PASS
5	2369.41	42.17	49.62	7.45	74.00	24.38	Vertical	PASS
6	2390	39.48	46.93	7.45	74.00	27.07	Vertical	PASS

Mode:	2480
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PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Polarity	Verdict
1	2483.5	39.98	47.94	7.96	74.00	26.06	Horizontal	PASS
2	2486.93	41.49	49.47	7.98	74.00	24.53	Horizontal	PASS
3	2490.06	41.62	49.62	8.00	74.00	24.38	Horizontal	PASS
4	2494.90	40.67	48.69	8.02	74.00	25.31	Horizontal	PASS
5	2496.07	41.16	49.20	8.04	74.00	24.80	Horizontal	PASS
6	2500	39.24	47.30	8.06	74.00	26.70	Horizontal	PASS

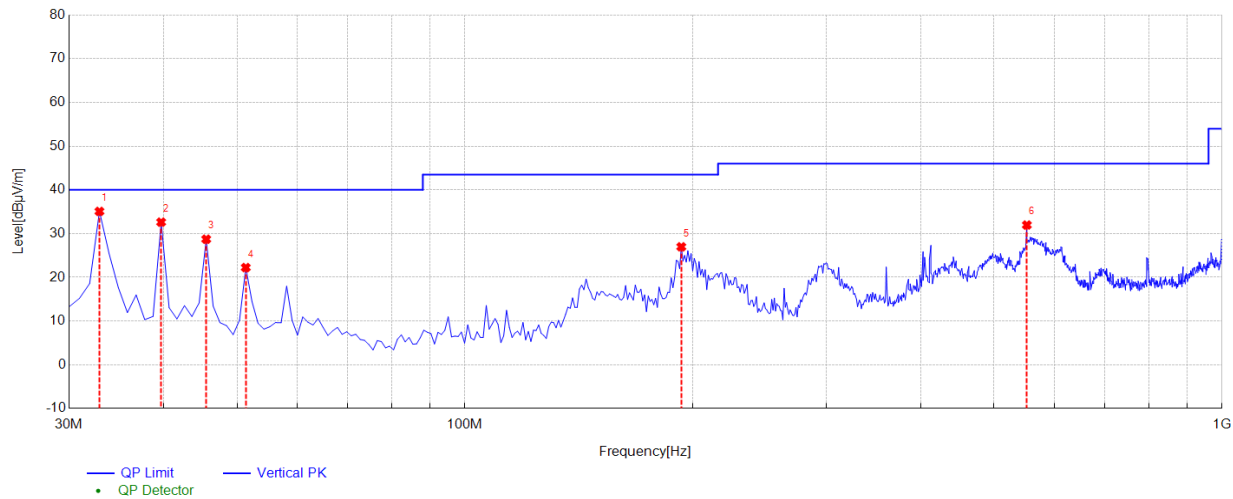
PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Polarity	Verdict
1	2483.5	40.31	48.27	7.96	74.00	25.73	Vertical	PASS
2	2487.54	41.53	49.52	7.99	74.00	24.48	Vertical	PASS
3	2489.25	40.75	48.75	8.00	74.00	25.25	Vertical	PASS
4	2492.24	41.21	49.22	8.01	74.00	24.78	Vertical	PASS
5	2494.58	41.55	49.57	8.02	74.00	24.43	Vertical	PASS
6	2500	40.27	48.33	8.06	74.00	25.67	Vertical	PASS

Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Appendix I: Radiated emissions

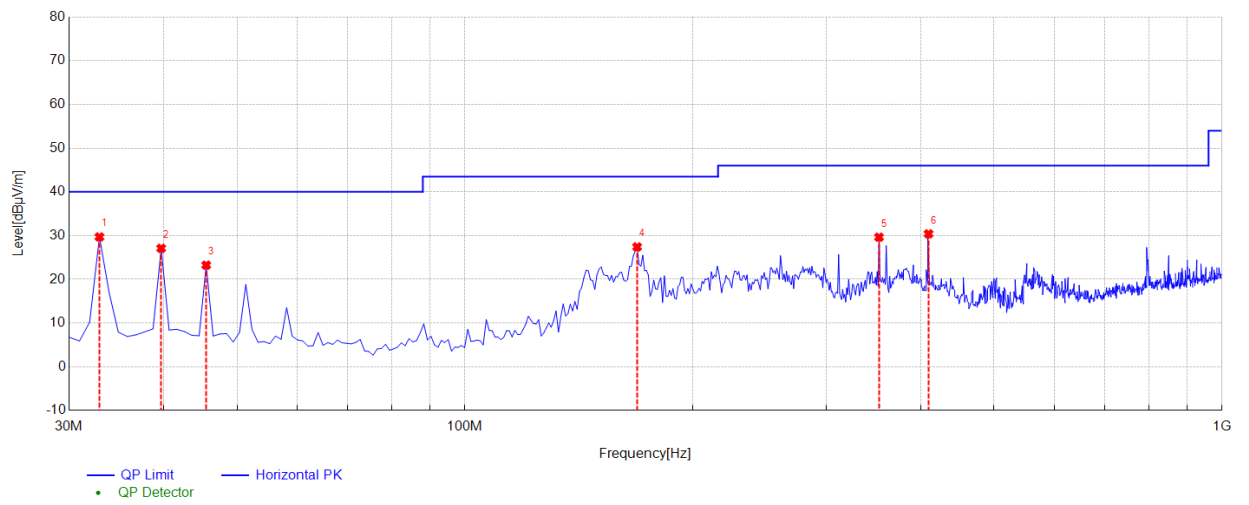
Mode:	2402
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NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	32.9129	35.09	-16.86	40.00	4.91	100	240	Vertical	PASS
2	39.7097	32.63	-15.67	40.00	7.37	100	240	Vertical	PASS
3	45.5355	28.73	-16.14	40.00	11.27	100	310	Vertical	PASS
4	51.3614	22.24	-16.68	40.00	17.76	100	240	Vertical	PASS
5	193.123	26.99	-19.13	43.50	16.51	100	210	Vertical	PASS
6	552.382	31.97	-10.96	46.00	14.03	100	150	Vertical	PASS

Mode:

2402



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	32.9129	29.71	-16.86	40.00	10.29	100	350	Horizontal	PASS
2	39.7097	27.10	-15.67	40.00	12.90	100	350	Horizontal	PASS
3	45.5355	23.25	-16.14	40.00	16.75	100	350	Horizontal	PASS
4	168.848	27.42	-16.61	43.50	16.08	100	180	Horizontal	PASS
5	352.362	29.64	-15.46	46.00	16.36	100	340	Horizontal	PASS
6	409.649	30.41	-13.73	46.00	15.59	100	190	Horizontal	PASS

Mode:	2402
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PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Factor [dB]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Polarity	Verdict
1	3205.0684	62.1	-16.07	46.03	74.00	27.97	Horizontal	PASS
2	4805.6019	66.17	-12.26	53.91	74.00	20.09	Horizontal	PASS
3	5730.9103	54.19	-10.73	43.46	74.00	30.54	Horizontal	PASS
4	6906.3021	53.02	-9.14	43.88	74.00	30.12	Horizontal	PASS
5	11532.8443	47.28	-2.25	45.03	74.00	28.97	Horizontal	PASS
6	17779.9266	45.13	5.74	50.87	74.00	23.13	Horizontal	PASS

PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Factor [dB]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Polarity	Verdict
1	3205.0684	64.69	-16.07	48.62	74.00	25.38	Vertical	PASS
2	4805.6019	66.07	-12.26	53.81	74.00	20.19	Vertical	PASS
3	6416.1387	53.27	-9.80	43.47	74.00	30.53	Vertical	PASS
4	7896.6322	51.33	-8.26	43.07	74.00	30.93	Vertical	PASS
5	12798.2661	47.81	-1.23	46.58	74.00	27.42	Vertical	PASS

Mode:	2480
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PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Factor [dB]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Polarity	Verdict
1	3305.1017	63.4	-16.89	46.51	74.00	27.49	Horizontal	PASS
2	4960.6536	60.76	-12.91	47.85	74.00	26.15	Horizontal	PASS
3	6486.1621	52.28	-9.67	42.61	74.00	31.39	Horizontal	PASS
4	11067.6892	49.29	-3.63	45.66	74.00	28.34	Horizontal	PASS
5	11777.926	47.58	-1.90	45.68	74.00	28.32	Horizontal	PASS
6	16954.6516	45.62	4.92	50.54	74.00	23.46	Horizontal	PASS

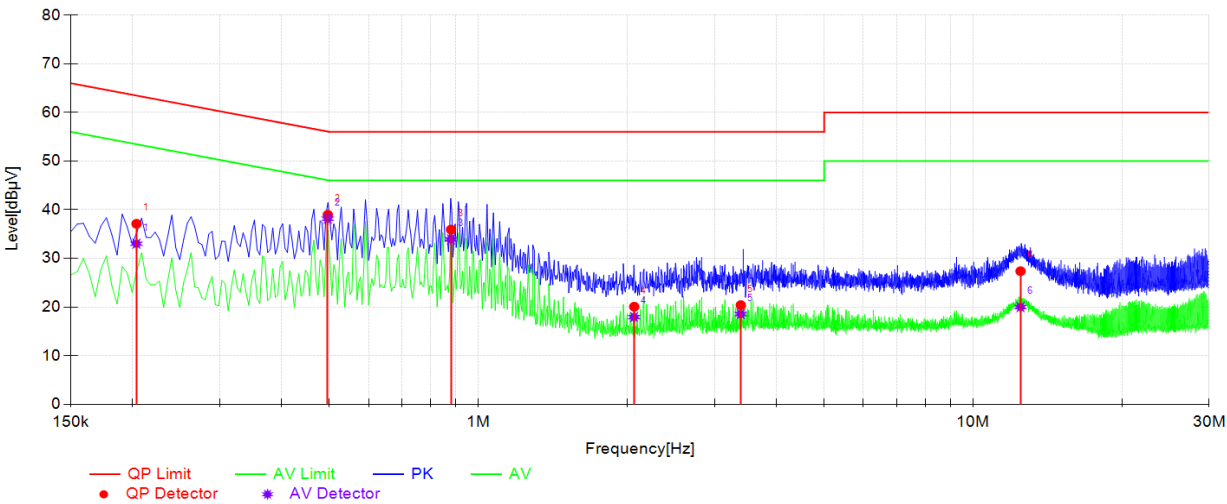
PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Factor [dB]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Polarity	Verdict
1	3305.1017	66.1	-16.89	49.21	74.00	24.79	Vertical	PASS
2	4960.6536	64.14	-12.91	51.23	74.00	22.77	Vertical	PASS
3	6581.1937	52.86	-9.80	43.06	74.00	30.94	Vertical	PASS
4	10307.4358	50.01	-4.87	45.14	74.00	28.86	Vertical	PASS
5	11507.8359	48.37	-2.26	46.11	74.00	27.89	Vertical	PASS
6	17169.7232	45.73	4.83	50.56	74.00	23.44	Vertical	PASS

Mode:	2440
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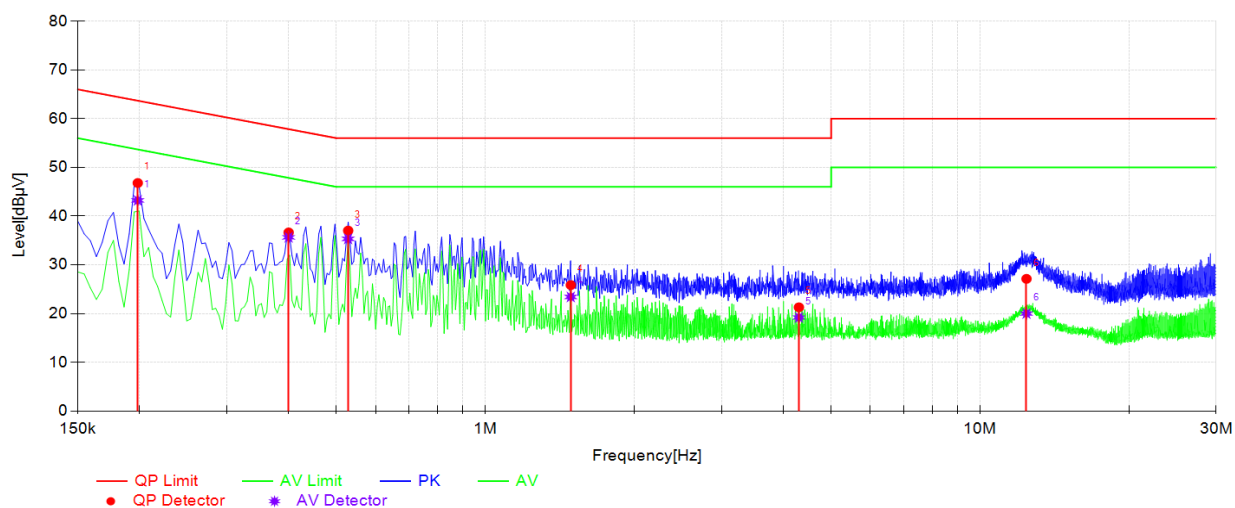
PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Factor [dB]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Polarity	Verdict
1	3255.085	63.3	-16.52	46.78	74.00	27.22	Horizontal	PASS
2	4880.6269	64.26	-12.95	51.31	74.00	22.69	Horizontal	PASS
3	6166.0554	52.53	-10.02	42.51	74.00	31.49	Horizontal	PASS
4	7761.5872	51.75	-8.38	43.37	74.00	30.63	Horizontal	PASS
5	13558.5195	47.57	0.41	47.98	74.00	26.02	Horizontal	PASS
6	16429.4765	45.4	3.76	49.16	74.00	24.84	Horizontal	PASS

PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Factor [dB]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Polarity	Verdict
1	3255.085	65.11	-16.52	48.59	74.00	25.41	Vertical	PASS
2	4880.6269	65.52	-12.95	52.57	74.00	21.43	Vertical	PASS
3	6991.3304	52.01	-8.93	43.08	74.00	30.92	Vertical	PASS
4	11007.6692	48.92	-3.87	45.05	74.00	28.95	Vertical	PASS
5	13188.3961	47.33	-0.24	47.09	74.00	26.91	Vertical	PASS
6	17094.6982	45.54	4.98	50.52	74.00	23.48	Vertical	PASS

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	0.2036	10.26	37.11	63.46	26.35	33.01	53.46	20.45	N	PASS
2	0.4960	10.28	38.96	56.07	17.11	38.15	46.07	7.92	N	PASS
3	0.8801	10.28	35.92	56.00	20.08	33.92	46.00	12.08	N	PASS
4	2.0649	10.29	20.07	56.00	35.93	17.93	46.00	28.07	N	PASS
5	3.3914	10.37	20.39	56.00	35.61	18.56	46.00	27.44	N	PASS
6	12.4722	10.49	27.37	60.00	32.63	19.99	50.00	30.01	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	0.1982	10.26	46.81	63.68	16.87	43.23	53.68	10.45	L1	PASS
2	0.4001	10.26	36.66	57.85	21.19	35.65	47.85	12.20	L1	PASS
3	0.5278	10.28	37.04	56.00	18.96	35.34	46.00	10.66	L1	PASS
4	1.4879	10.28	25.86	56.00	30.14	23.42	46.00	22.58	L1	PASS
5	4.3029	10.32	21.30	56.00	34.70	19.21	46.00	26.79	L1	PASS
6	12.4118	10.49	27.14	60.00	32.86	20.01	50.00	29.99	L1	PASS