

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.680	2401.640	2402.320	0.5	PASS
		2440	0.676	2439.648	2440.324	0.5	PASS
		2480	0.668	2479.648	2480.316	0.5	PASS

Test Graphs



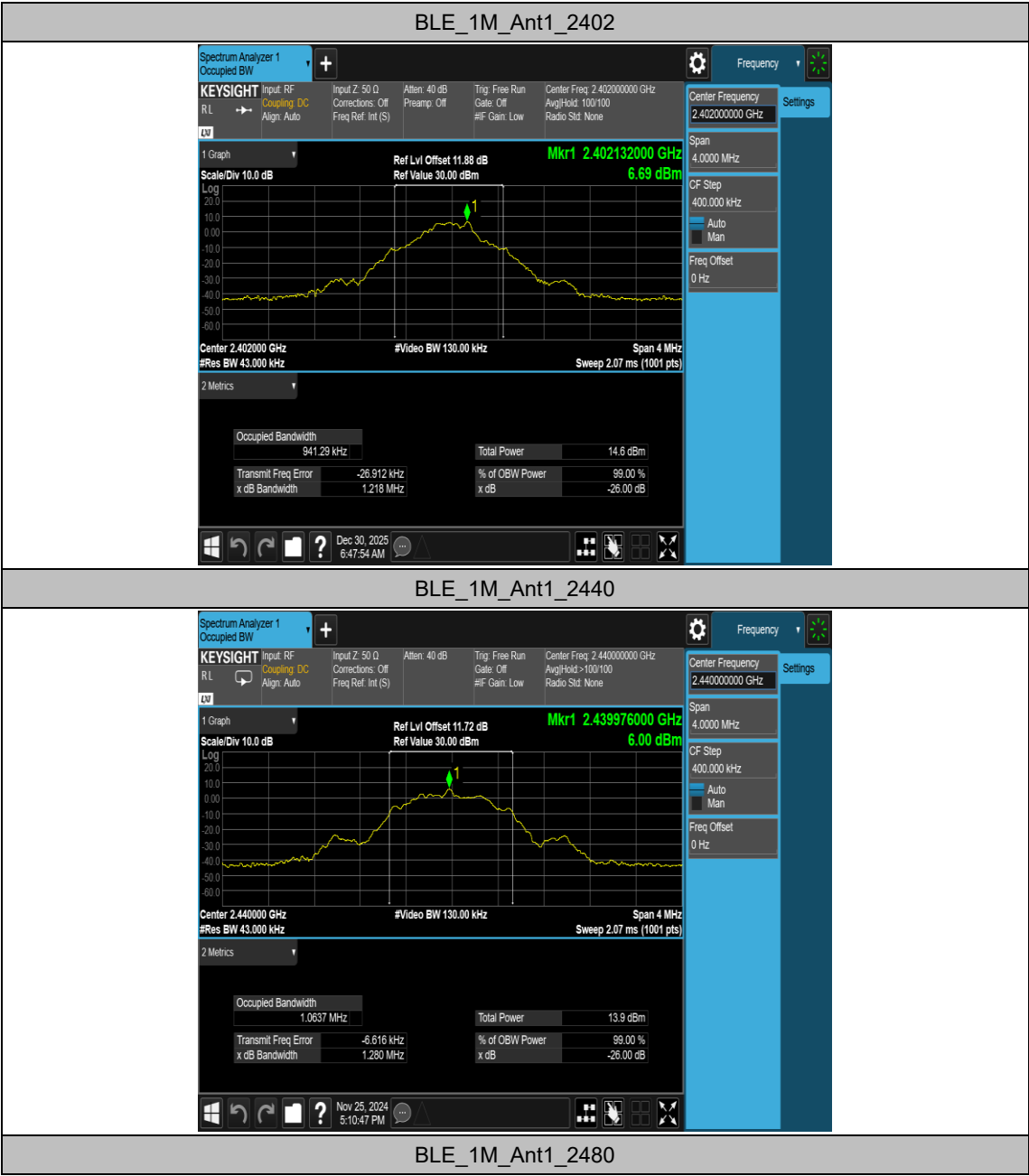


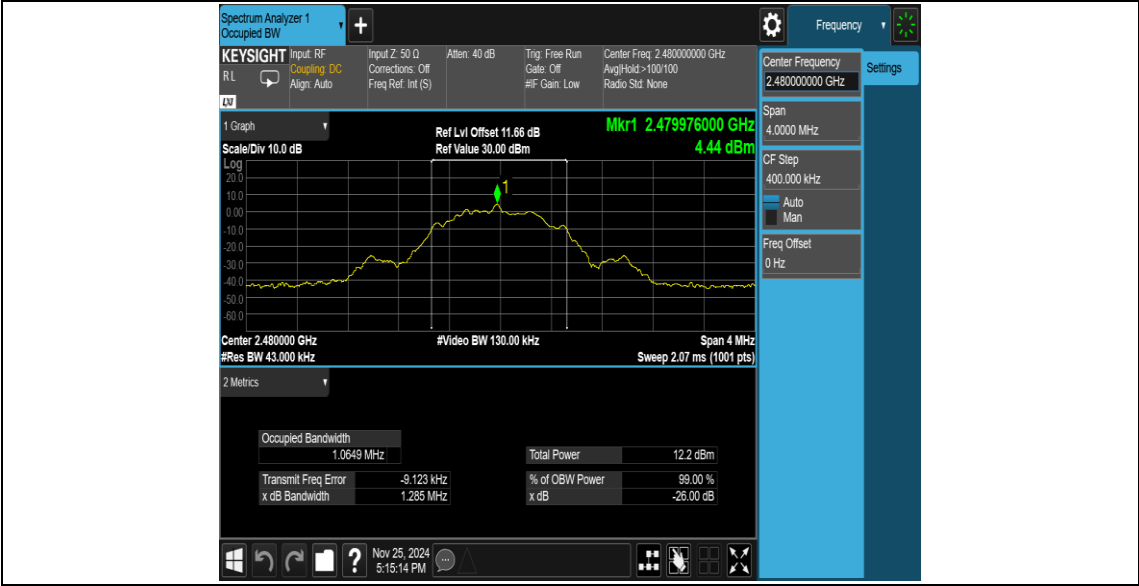
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.94129	2401.5024	2402.4437	---	---
		2440	1.0633	2439.4618	2440.5251	---	---
		2480	1.0630	2479.4599	2480.5229	---	---

Test Graphs



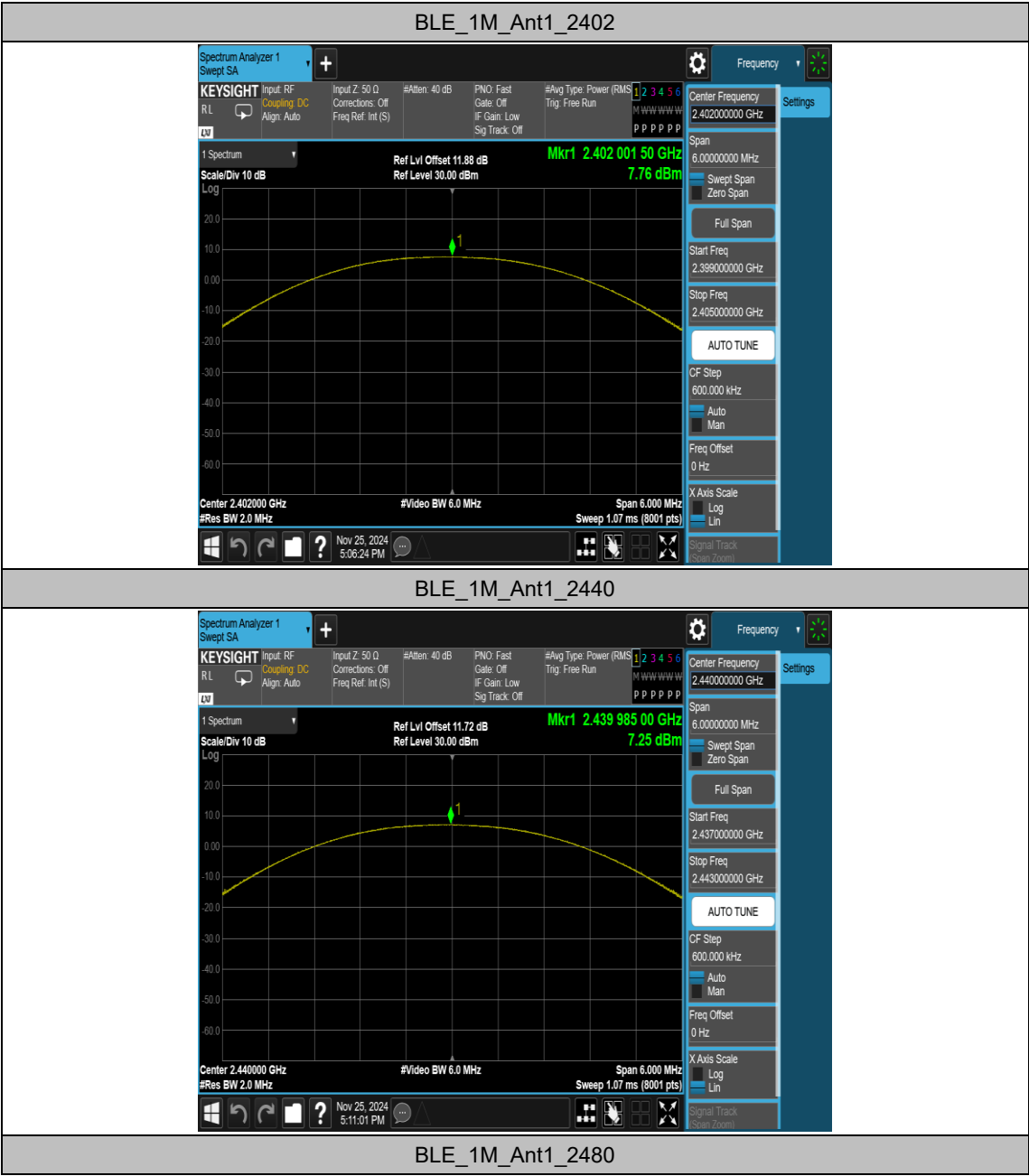


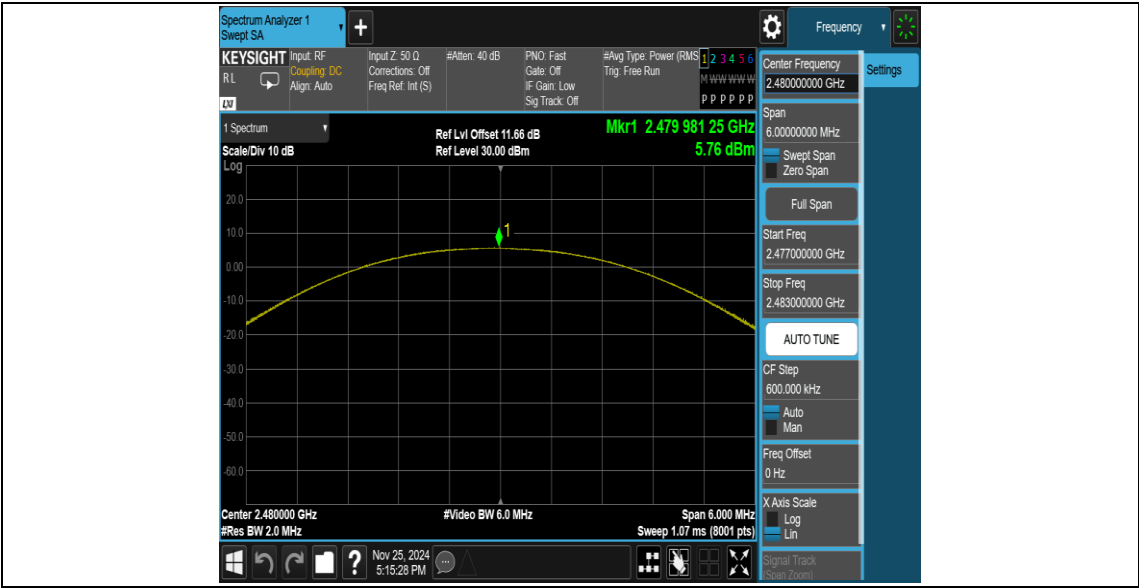
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	7.76	≤30	10.63	≤36	PASS
		2440	7.25	≤30	10.12	≤36	PASS
		2480	5.76	≤30	8.63	≤36	PASS

Test Graphs Peak



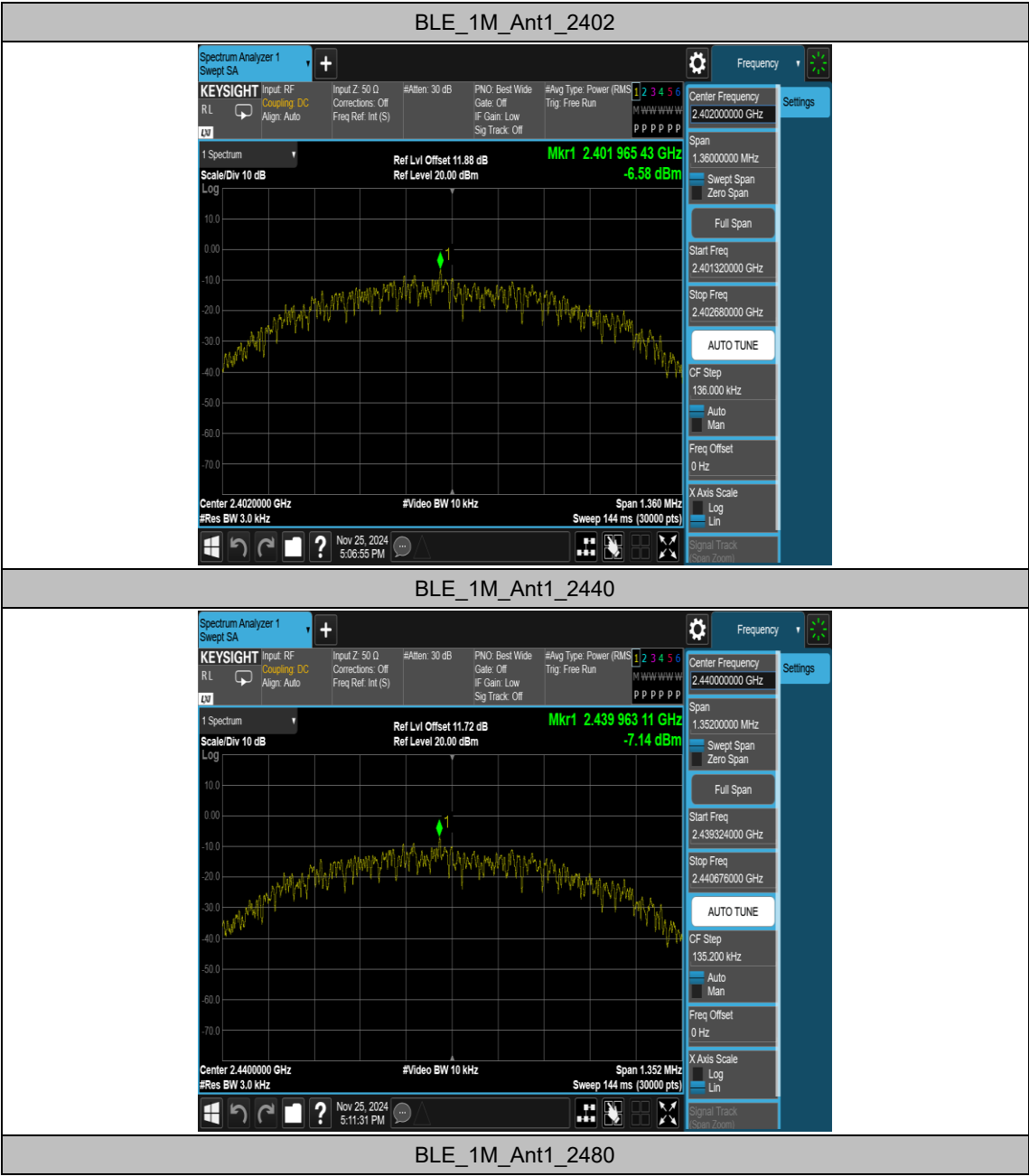


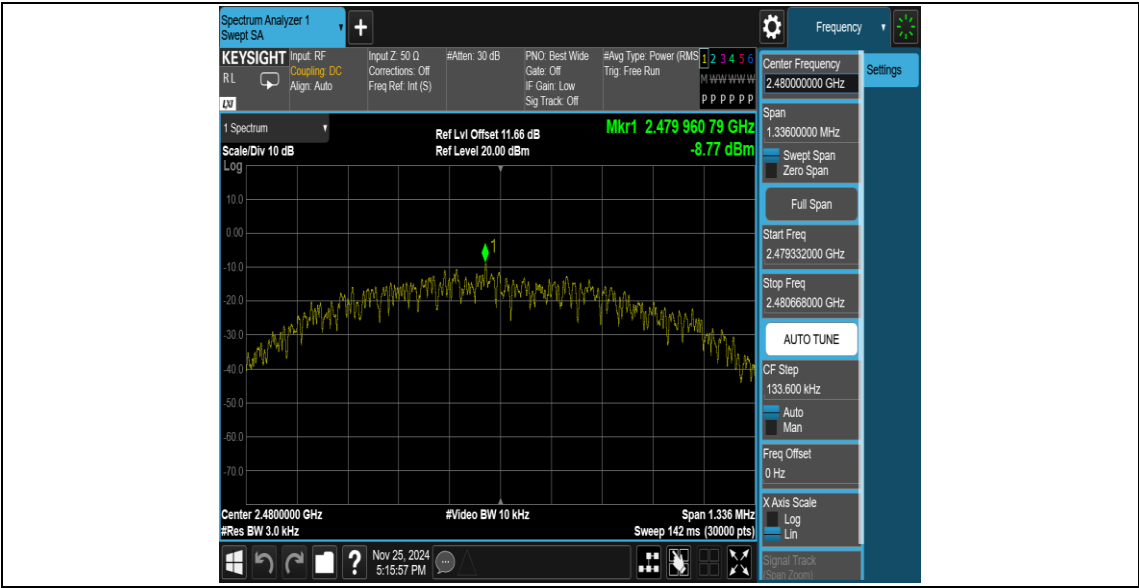
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-6.58	≤8.00	PASS
		2440	-7.14	≤8.00	PASS
		2480	-8.77	≤8.00	PASS

Test Graphs





Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	7.03	-45.75	≤-12.97	PASS
		High	2480	5.00	-46.22	≤-15	PASS

Test Graphs



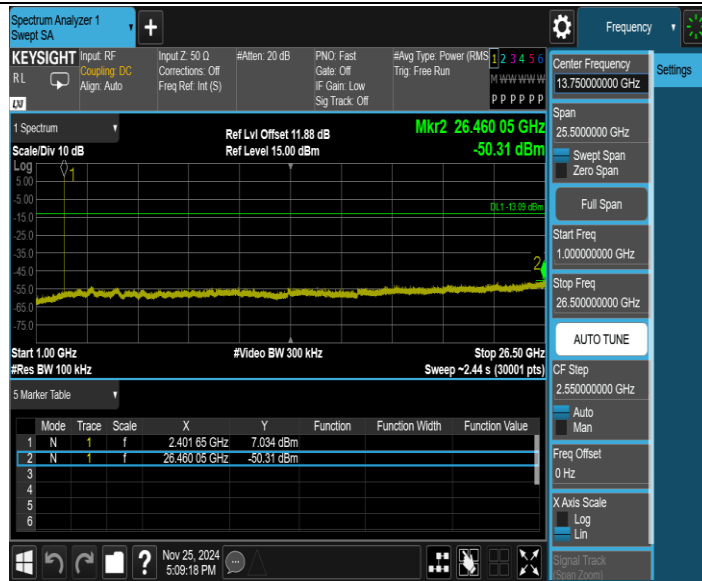
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	6.91	6.91	---	PASS
			30~1000	6.91	-57.85	≤-13.09	PASS
			1000~26500	6.91	-50.31	≤-13.09	PASS
		2440	Reference	6.42	6.42	---	PASS
			30~1000	6.42	-57.53	≤-13.58	PASS
			1000~26500	6.42	-50.08	≤-13.58	PASS
		2480	Reference	4.87	4.87	---	PASS
			30~1000	4.87	-58.2	≤-15.13	PASS
			1000~26500	4.87	-50.64	≤-15.13	PASS

Test Graphs

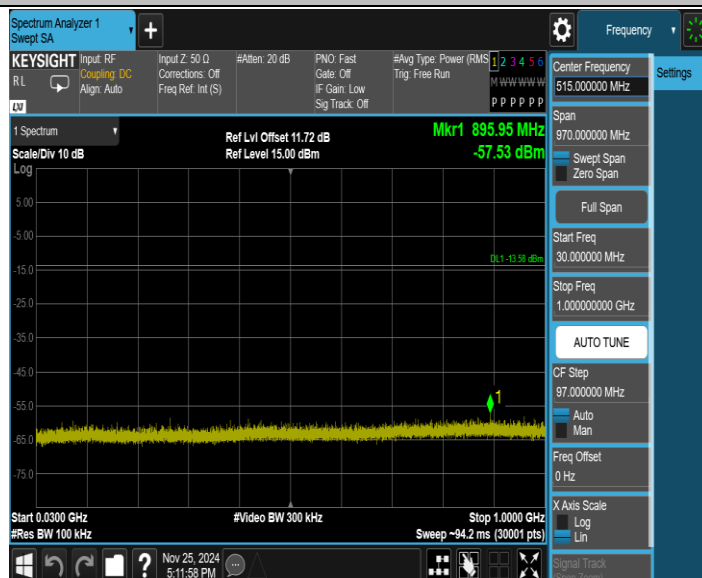




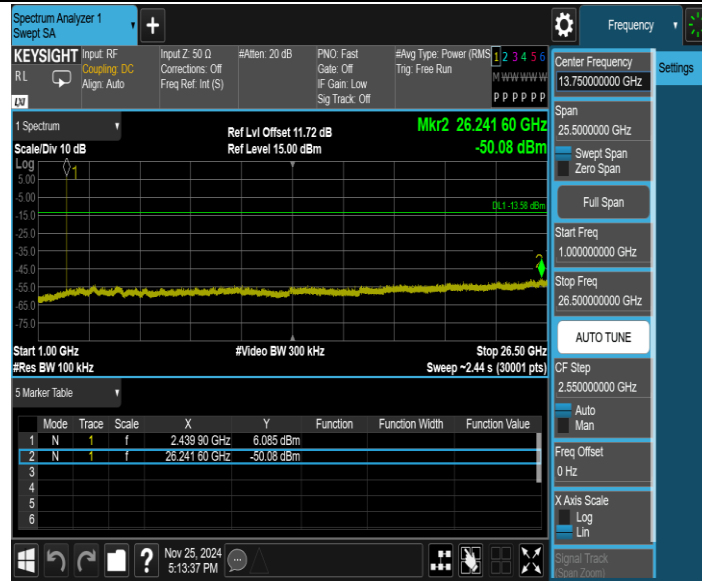
BLE_1M_Ant1_2440_0~Reference



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



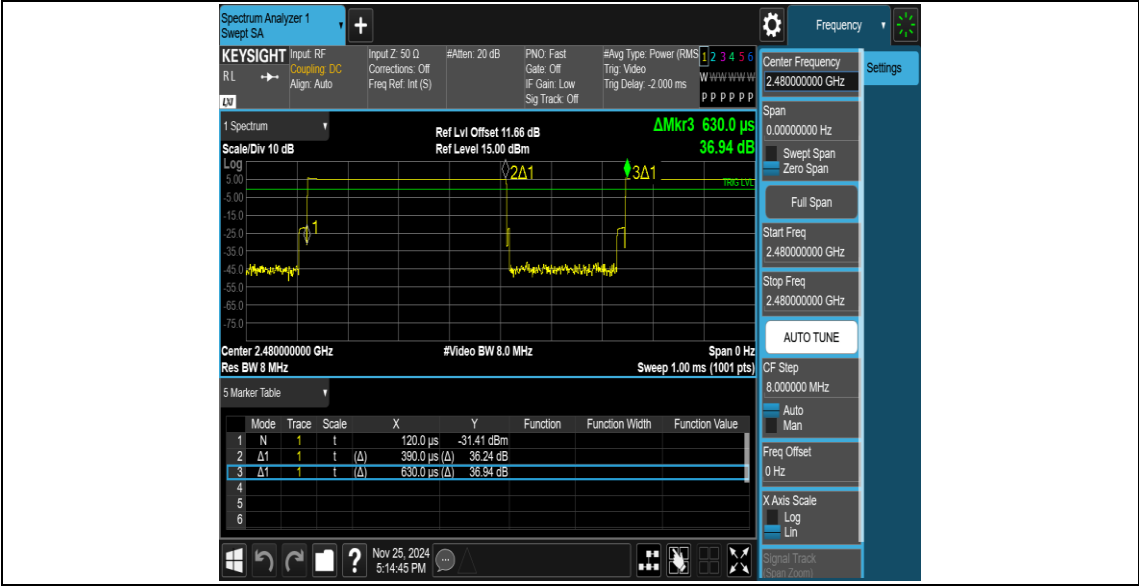
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]
BLE_1M	Ant1	2402	0.39	0.63	61.90
		2440	0.39	0.63	61.90
		2480	0.39	0.63	61.90

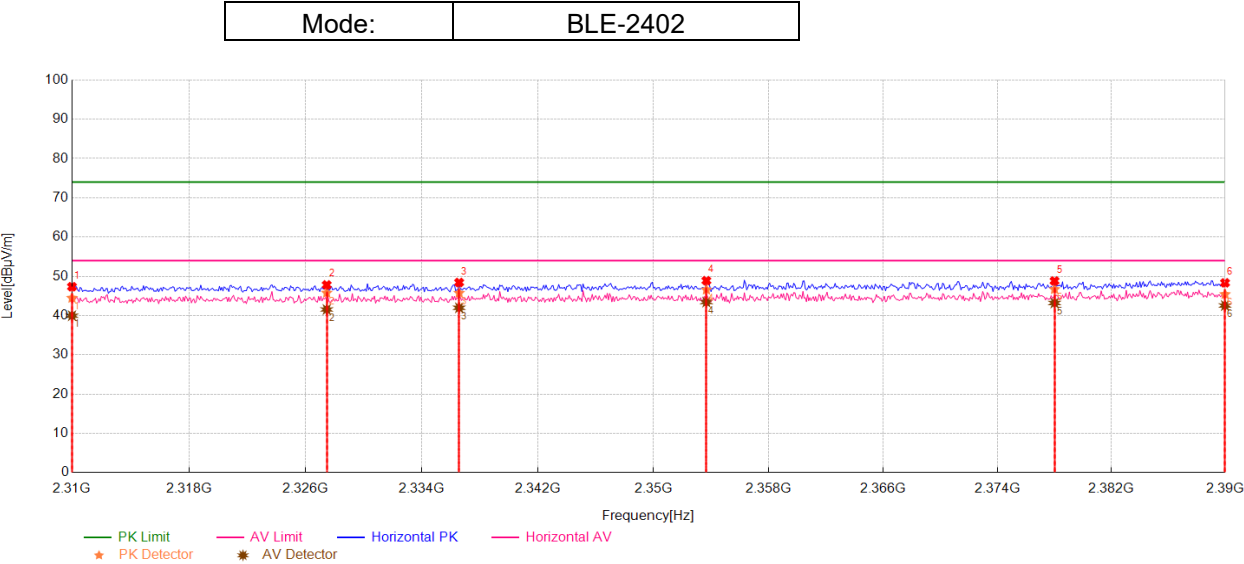
Test Graphs





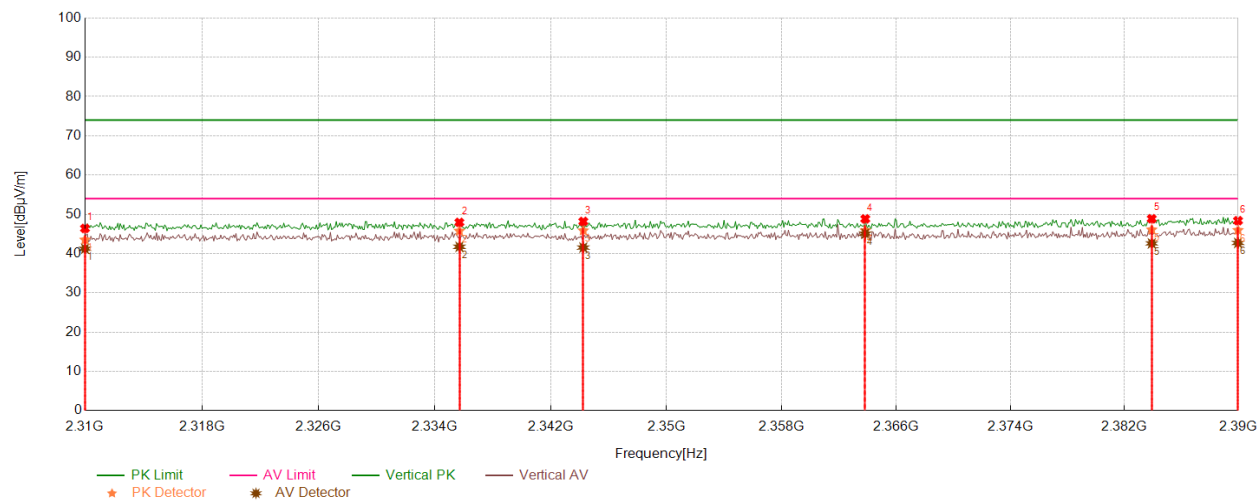
Appendix H: Emissions in Restricted Bands

Test Result



PK Final Data List								
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2310	6.68	44.48	74.00	29.52	150	179	Horizontal
2	2327.44	6.76	45.78	74.00	28.22	150	84	Horizontal
3	2336.56	6.80	45.76	74.00	28.24	150	329	Horizontal
4	2353.68	6.91	46.58	74.00	27.42	150	122	Horizontal
5	2378	7.59	46.70	74.00	27.30	150	360	Horizontal
6	2390	8.15	45.42	74.00	28.58	150	360	Horizontal

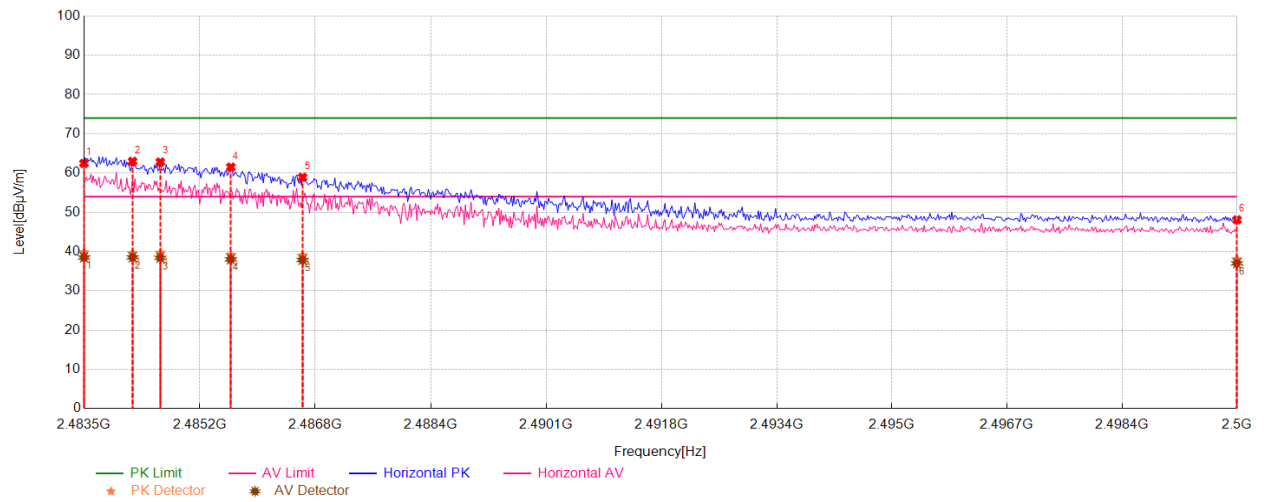
Mode:	BLE-2402
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PK Final Data List								
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2310	6.68	43.52	74.00	30.48	150	82	Vertical
2	2335.68	6.84	45.77	74.00	28.23	150	219	Vertical
3	2344.24	6.96	45.86	74.00	28.14	150	284	Vertical
4	2363.84	7.11	45.87	74.00	28.13	150	97	Vertical
5	2383.92	7.88	46.09	74.00	27.91	150	147	Vertical
6	2390	8.15	45.96	74.00	28.04	150	189	Vertical

Mode:

BLE-2480



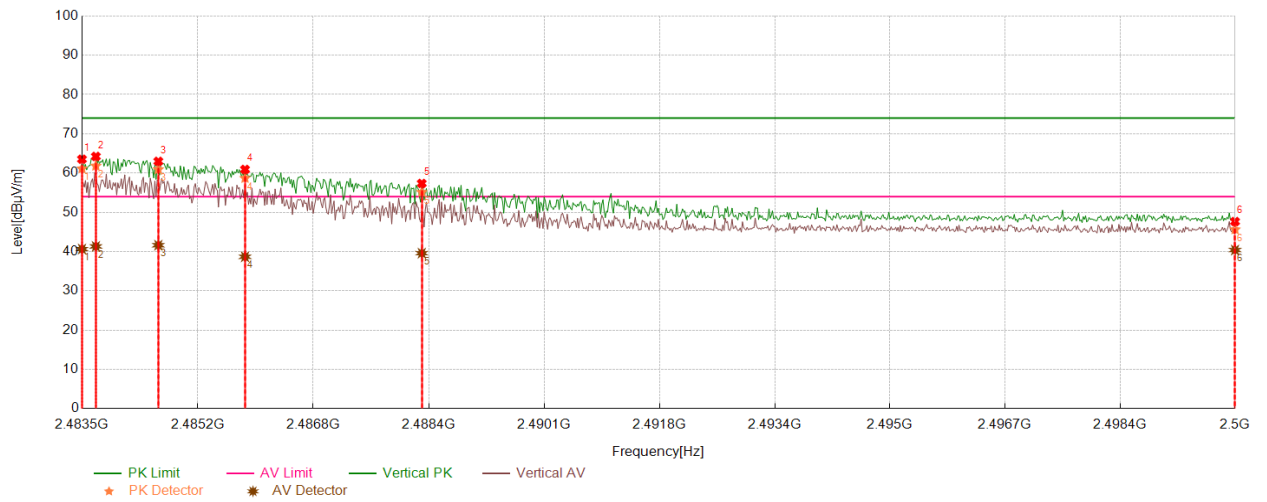
PK Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.5	62.46	8.67	74.00	11.54	150	234	Horizontal
2	2484.19	62.99	8.60	74.00	11.01	150	319	Horizontal
3	2484.58	62.81	8.58	74.00	11.19	150	319	Horizontal
4	2485.59	61.53	8.48	74.00	12.47	150	319	Horizontal
5	2486.61	58.94	8.42	74.00	15.06	150	324	Horizontal
6	2500	48.09	8.20	74.00	25.91	150	116	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.50	8.67	38.50	54.00	15.50	114.7	237.6	Horizontal
2	2484.19	8.60	38.53	54.00	15.47	126.4	220	Horizontal
3	2484.58	8.58	38.43	54.00	15.57	100	82.5	Horizontal
4	2485.59	8.48	38.03	54.00	15.97	100	317.3	Horizontal
5	2486.61	8.42	37.88	54.00	16.12	152.7	220.4	Horizontal
6	2499.99	8.20	37.00	54.00	17.00	152.2	78.5	Horizontal

Mode: BLE-2480



PK Data List

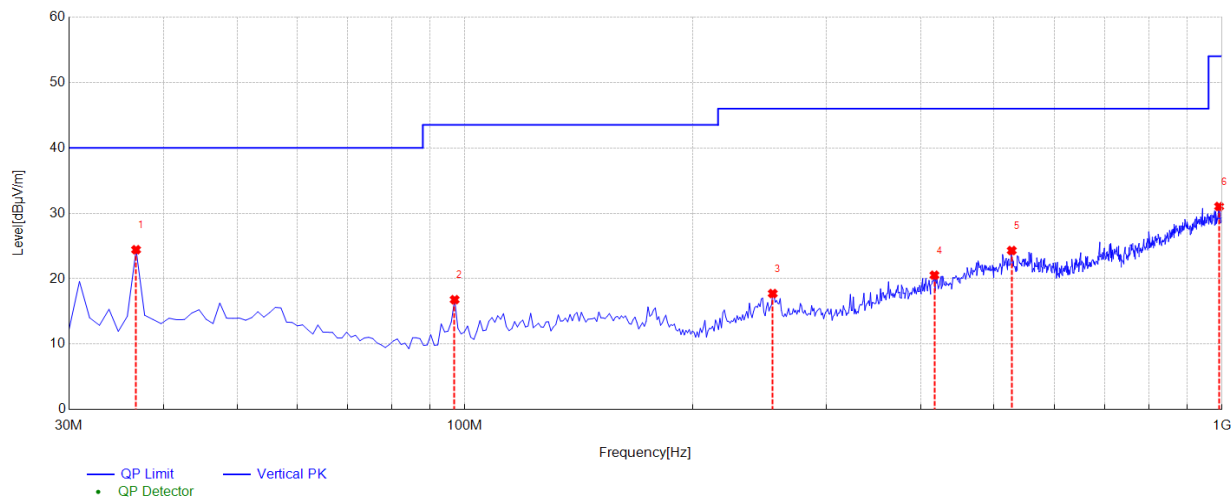
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.5	63.53	8.67	74.00	10.47	150	137	Vertical
2	2483.69	64.24	8.65	74.00	9.76	150	134	Vertical
3	2484.58	62.99	8.58	74.00	11.01	150	134	Vertical
4	2485.82	60.93	8.45	74.00	13.07	150	137	Vertical
5	2488.35	57.36	8.28	74.00	16.64	150	137	Vertical
6	2500	47.65	8.20	74.00	26.35	150	208	Vertical

AV Final Data List

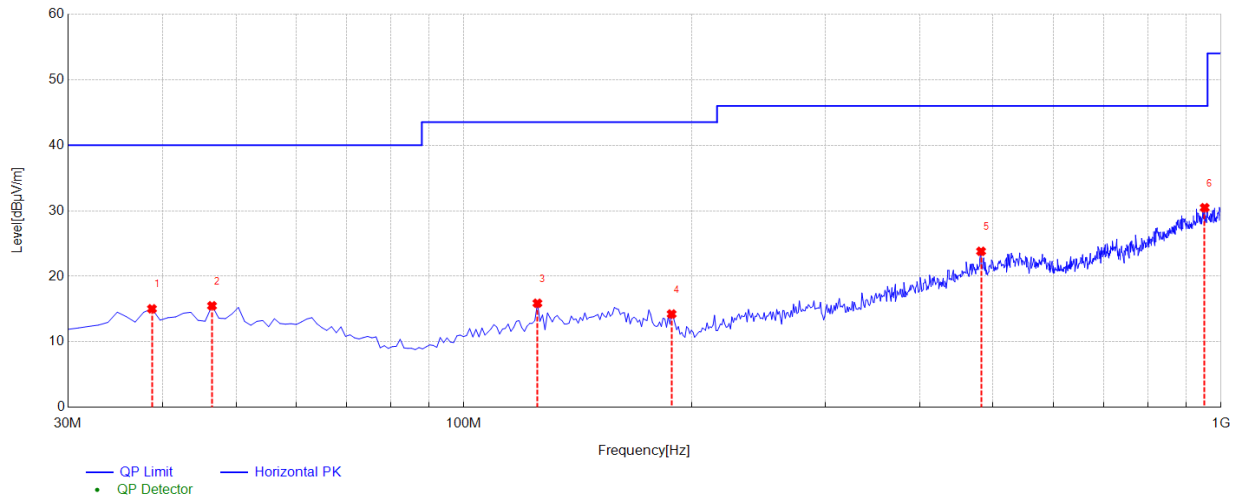
NO.	Freq. [MHz]	Factor [dB/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.5	8.67	40.65	54.00	13.35	150	137	Vertical
2	2483.69	8.65	41.32	54.00	12.68	150	134	Vertical
3	2484.58	8.58	41.63	54.00	12.37	150	134	Vertical
4	2485.82	8.45	38.68	54.00	15.32	150	137	Vertical
5	2488.35	8.28	39.60	54.00	14.40	150	137	Vertical
6	2500	8.20	40.40	54.00	13.60	150	208	Vertical

Appendix I: Spurious emissions

Test Result



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	36.7900	24.44	-16.27	40.00	15.56	100	320	Vertical	PASS
2	96.9300	16.81	-19.71	43.50	26.69	100	117	Vertical	PASS
3	255.040	17.75	-17.28	46.00	28.25	100	98	Vertical	PASS
4	417.030	20.55	-12.54	46.00	25.45	100	217	Vertical	PASS
5	527.610	24.32	-10.27	46.00	21.68	100	309	Vertical	PASS
6	991.270	31.05	-1.28	54.00	22.95	100	54	Vertical	PASS



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	38.7300	15.05	-15.92	40.00	24.95	100	360	Horizontal	PASS
2	46.4900	15.51	-15.81	40.00	24.49	100	26	Horizontal	PASS
3	125.060	15.90	-17.40	43.50	27.60	100	315	Horizontal	PASS
4	188.110	14.26	-18.81	43.50	29.24	100	70	Horizontal	PASS
5	482.020	23.82	-11.25	46.00	22.18	100	240	Horizontal	PASS
6	951.500	30.47	-1.41	46.00	15.53	100	70	Horizontal	PASS

Mode:	BLE-2402
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NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1314	43.08	2.28	74.00	30.92	150	232	Horizontal
2	2012	45.63	5.95	74.00	28.37	150	50	Horizontal
3	4128	42.22	-16.46	74.00	31.78	150	99	Horizontal
4	6003	44.83	-12.33	74.00	29.17	150	28	Horizontal
5	9747	45.52	-7.69	74.00	28.48	150	12	Horizontal
6	13128	48.32	-2.86	74.00	25.68	150	318	Horizontal

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1468	42.11	1.86	74.00	31.89	150	124	Vertical
2	1998	49.06	5.92	74.00	24.94	150	208	Vertical
3	5256	45.58	-14.07	74.00	28.42	150	112	Vertical
4	6561	45.55	-12.15	74.00	28.45	150	159	Vertical
5	10044	45.89	-7.62	74.00	28.11	150	341	Vertical
6	12243	47.59	-4.88	74.00	26.41	150	54	Vertical

Mode:	BLE-2440
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NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1260	43.26	2.22	74.00	30.74	150	89	Horizontal
2	1852	45.43	5.37	74.00	28.57	150	166	Horizontal
3	4947	43.29	-15.24	74.00	30.71	150	170	Horizontal
4	9660	45.03	-8.26	74.00	28.97	150	37	Horizontal
5	10086	46.67	-7.34	74.00	27.33	150	182	Horizontal
6	14367	49.25	-0.94	74.00	24.75	150	353	Horizontal

NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1384	43.63	2.02	74.00	30.37	150	160	Vertical
2	1916	46.76	5.66	74.00	27.24	150	226	Vertical
3	3954	45.09	-17.22	74.00	28.91	150	66	Vertical
4	6561	45.45	-12.15	74.00	28.55	150	141	Vertical
5	8826	45.18	-9.88	74.00	28.82	150	190	Vertical
6	11832	48.17	-4.51	74.00	25.83	150	350	Vertical

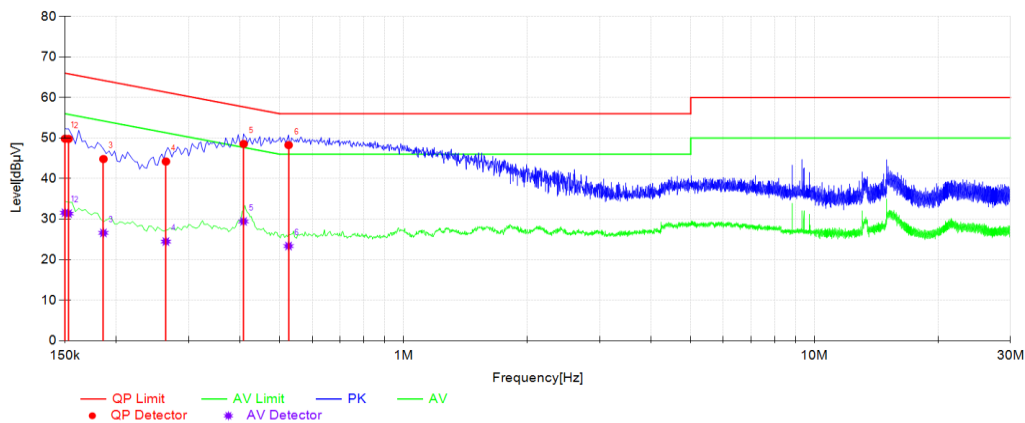
Mode:	BLE-2480
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NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1280	42.69	2.29	74.00	31.31	150	62	Horizontal
2	1942	45.75	5.62	74.00	28.25	150	277	Horizontal
3	4932	43.14	-14.91	74.00	30.86	150	356	Horizontal
4	8250	44.94	-10.17	74.00	29.06	150	140	Horizontal
5	11886	47.56	-4.38	74.00	26.44	150	225	Horizontal
6	15315	49.38	-0.41	74.00	24.62	150	4	Horizontal

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1296	43.84	2.35	74.00	30.16	150	74	Vertical
2	1916	47.22	5.66	74.00	26.78	150	217	Vertical
3	4662	43.66	-15.28	74.00	30.34	150	45	Vertical
4	5907	43.86	-12.78	74.00	30.14	150	116	Vertical
5	7635	45.01	-11.27	74.00	28.99	150	5	Vertical
6	11814	48.66	-4.47	74.00	25.34	150	187	Vertical

Appendix J: Conducted emission AC power port

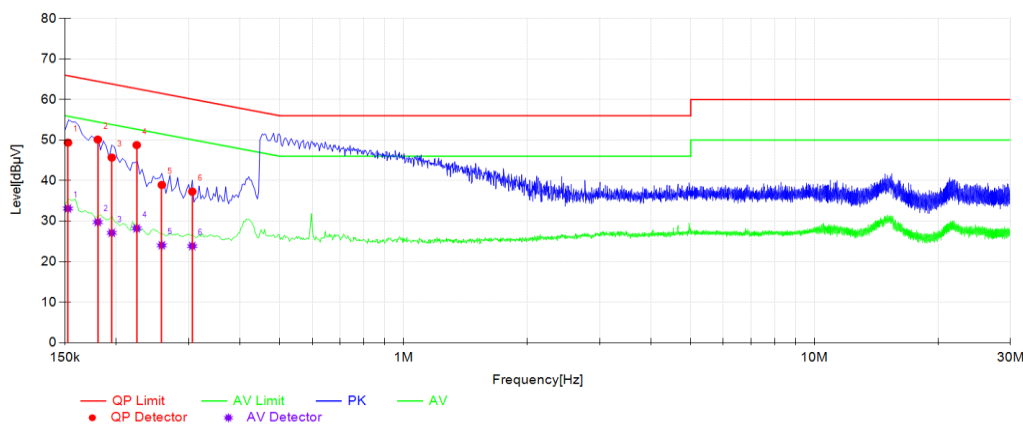
Test Result



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	0.15	11.65	49.84	66.00	16.16	31.57	56.00	24.43	L1	PASS
2	0.153	11.65	49.80	65.84	16.04	31.37	55.84	24.47	L1	PASS
3	0.186	11.65	44.83	64.21	19.38	26.60	54.21	27.61	L1	PASS
4	0.264	11.65	44.22	61.30	17.08	24.47	51.30	26.83	L1	PASS
5	0.408	11.66	48.55	57.69	9.14	29.44	47.69	18.25	L1	PASS
6	0.525	11.66	48.27	56.00	7.73	23.37	46.00	22.63	L1	PASS

Neutral line test data



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	0.1525	11.65	49.36	65.86	16.50	33.11	55.86	22.75	N	PASS
2	0.1802	11.65	50.12	64.48	14.36	29.77	54.48	24.71	N	PASS
3	0.1949	11.65	45.69	63.83	18.14	27.10	53.83	26.73	N	PASS
4	0.2241	11.65	48.77	62.67	13.90	28.21	52.67	24.46	N	PASS
5	0.258	11.65	38.93	61.50	22.57	24.04	51.50	27.46	N	PASS
6	0.306	11.65	37.29	60.08	22.79	23.85	50.08	26.23	N	PASS