

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.660	2402.328	0.5	PASS
		2440	0.680	2439.656	2440.336	0.5	PASS
		2480	0.664	2479.664	2480.328	0.5	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



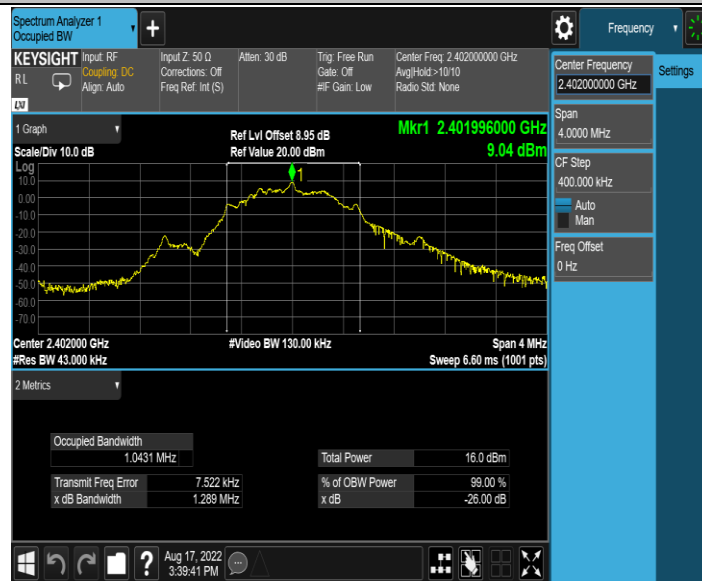
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0417	2401.486	2402.527	---	---
		2440	1.0486	2439.485	2440.534	---	---
		2480	1.0571	2479.485	2480.542	---	---

Test Graphs

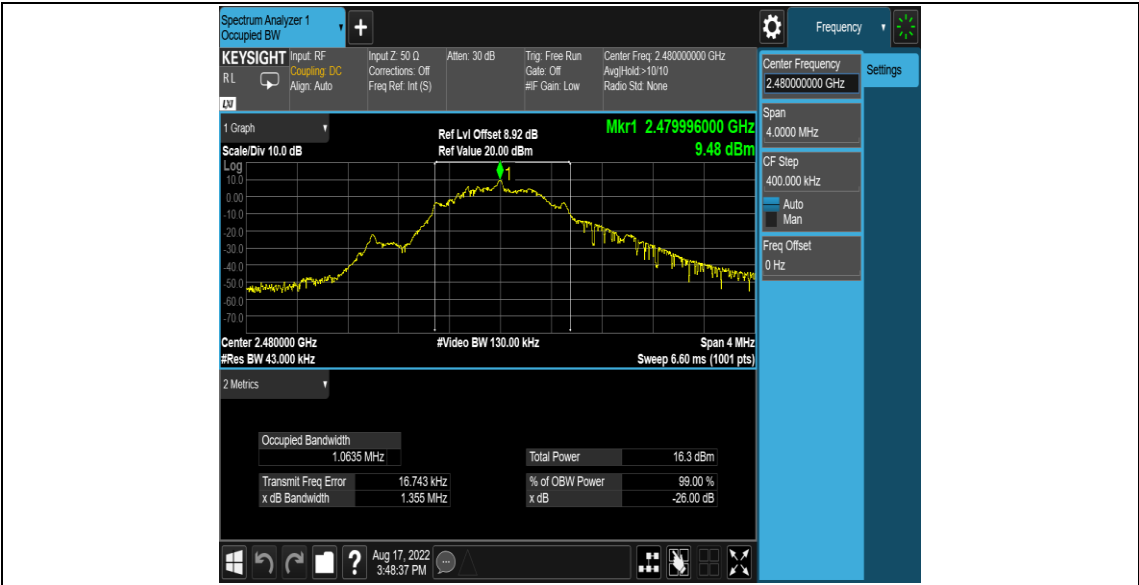
BLE_1M_Ant1_2402



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]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	9.62	≤30	10.70	≤36	PASS
		2440	9.83	≤30	10.91	≤36	PASS
		2480	10.04	≤30	11.12	≤36	PASS

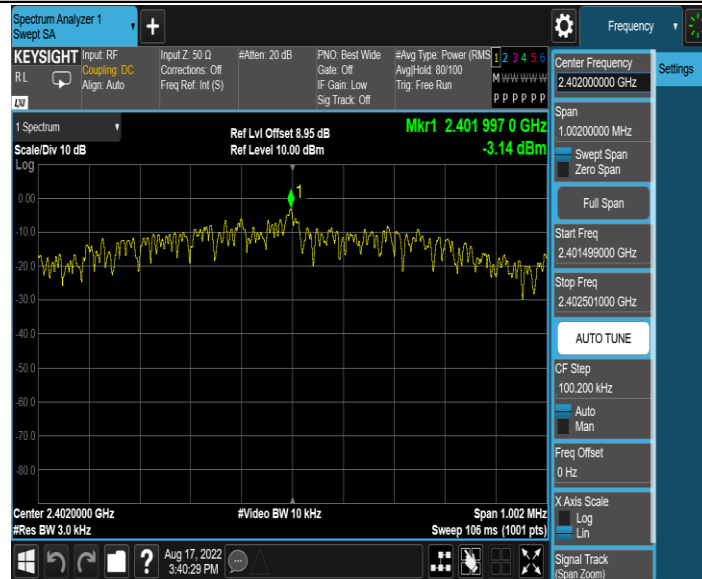
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-3.15	≤8.00	PASS
		2440	-3.07	≤8.00	PASS
		2480	-2.86	≤8.00	PASS

Test Graphs

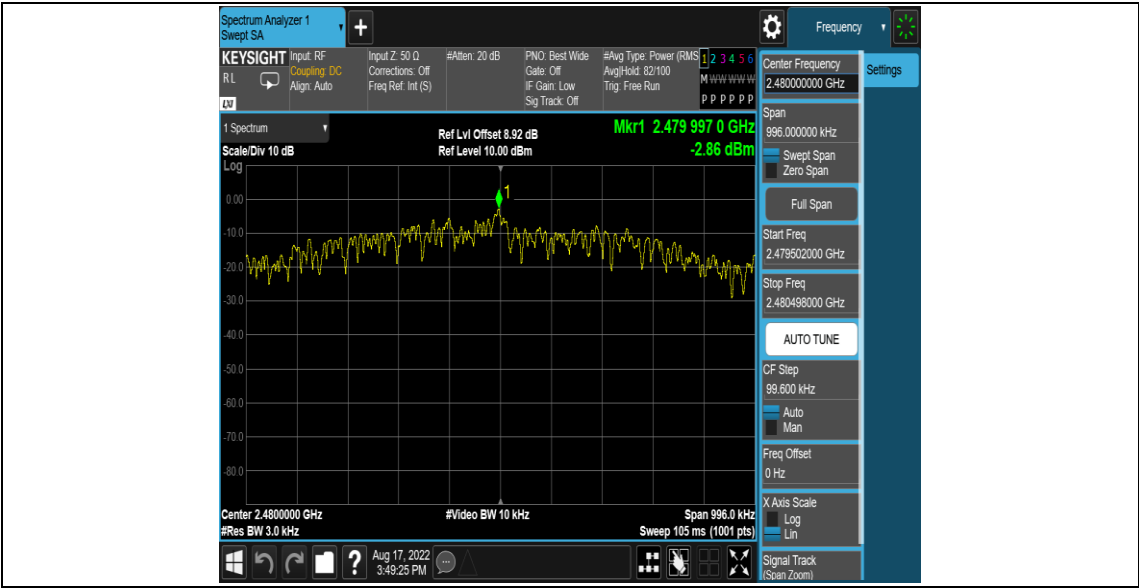
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2402.00	9.12
		2440	2440.00	9.34
		2480	2480.00	9.55

Test Graphs

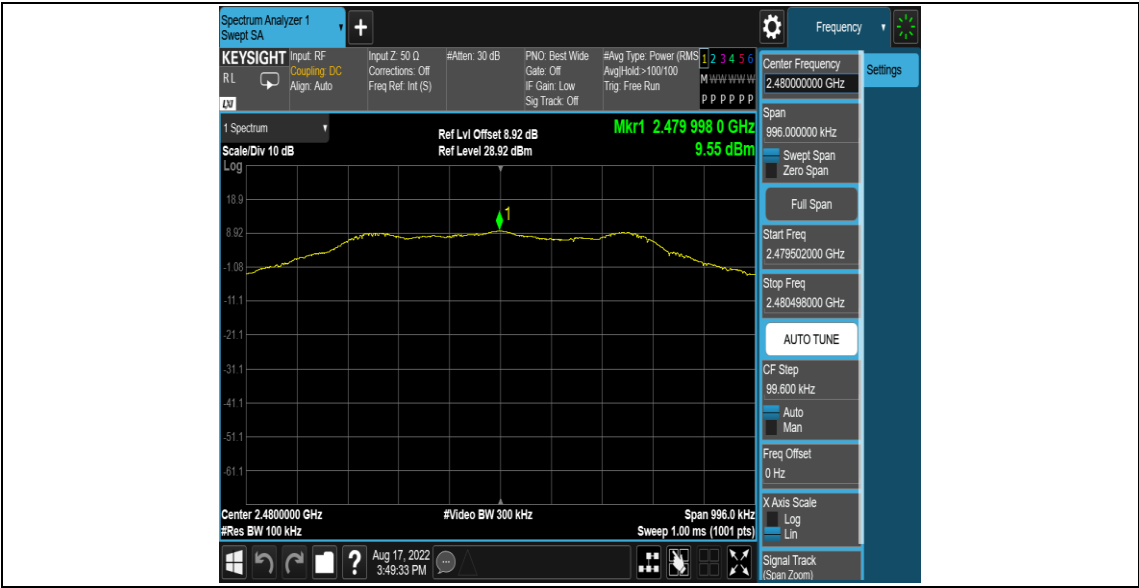
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



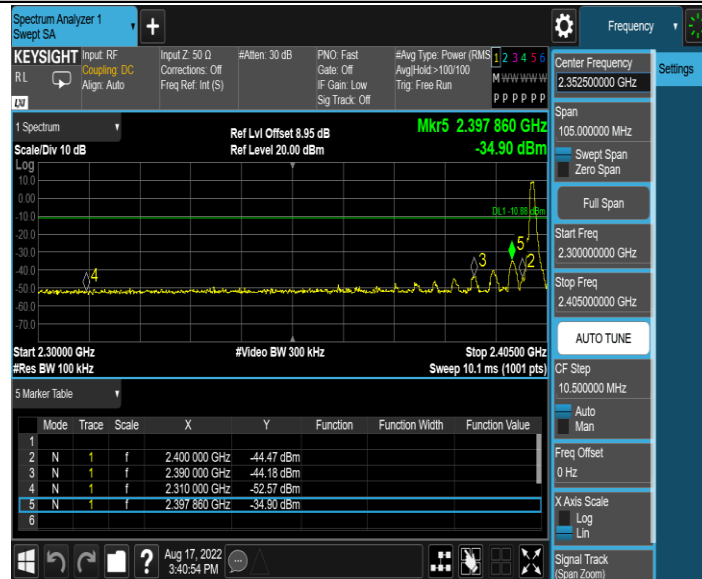
Appendix E: Band edge measurements

Test Result

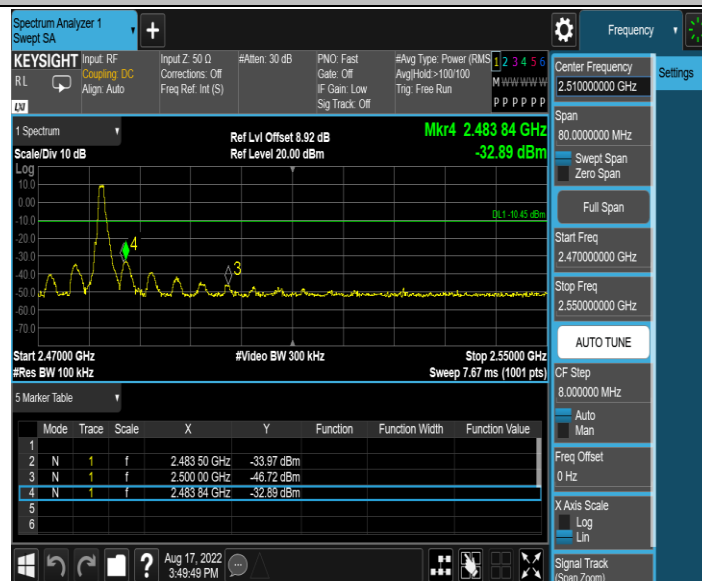
TestMod e	Antenn a	ChNam e	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	9.12	-34.9	≤-10.88	PASS
		High	2480	9.55	-32.89	≤-10.45	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



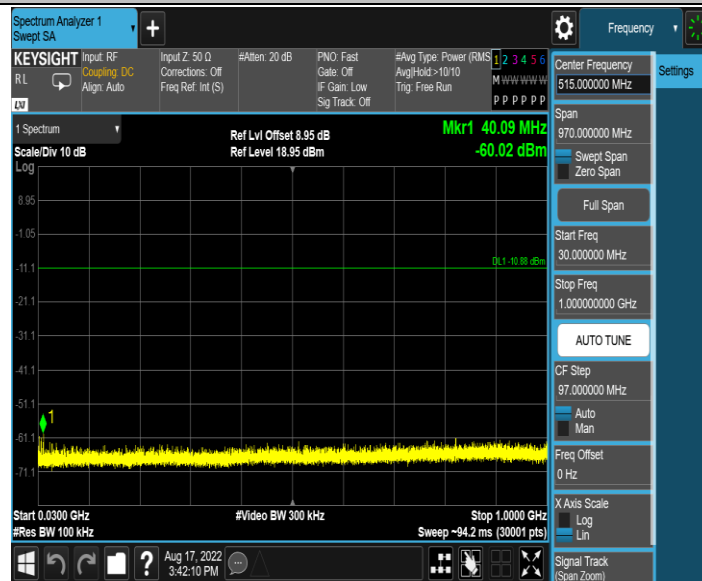
Appendix F: Conducted Spurious Emission

Test Result

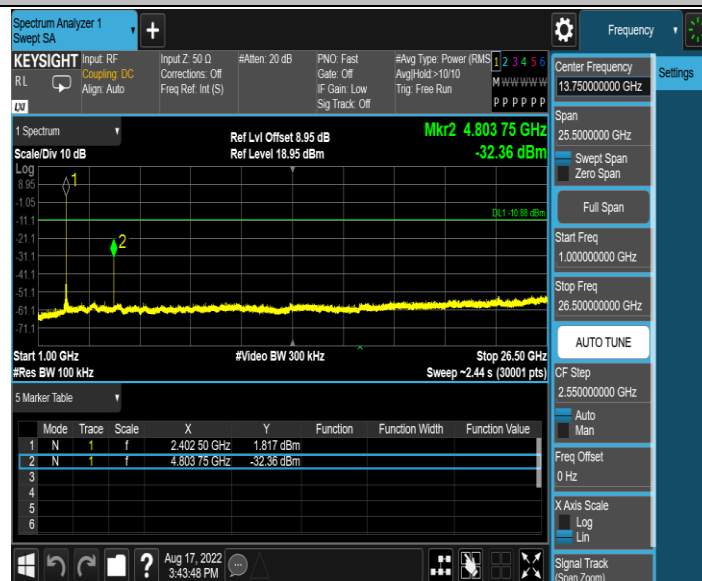
TestMod e	Antenn a	Frequency[MHz]	FreqRange [MHz]	RefLeve l [dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	2402	30~1000	9.12	-60.02	≤-10.88	PASS
			1000~2650 0	9.12	-32.36	≤-10.88	PASS
		2440	30~1000	9.34	-60.67	≤-10.66	PASS
			1000~2650 0	9.34	-31.18	≤-10.66	PASS
		2480	30~1000	9.55	-60.97	≤-10.45	PASS
			1000~2650 0	9.55	-30.48	≤-10.45	PASS

Test Graphs

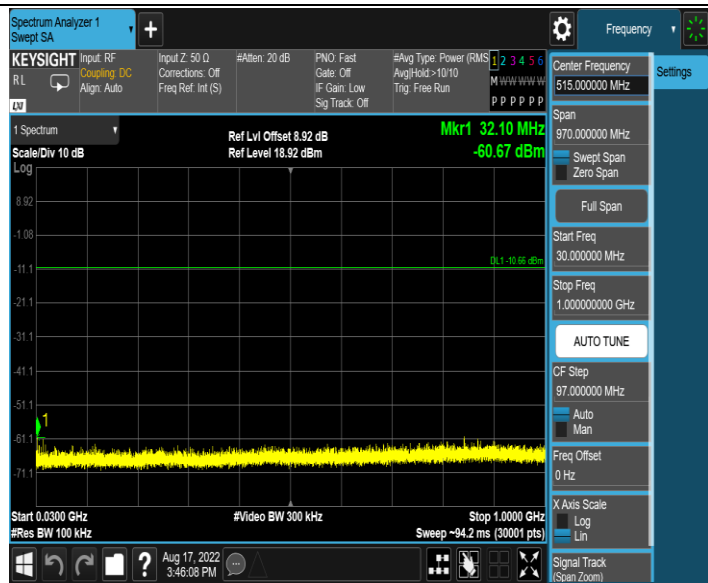
BLE_1M_Ant1_2402_30~1000



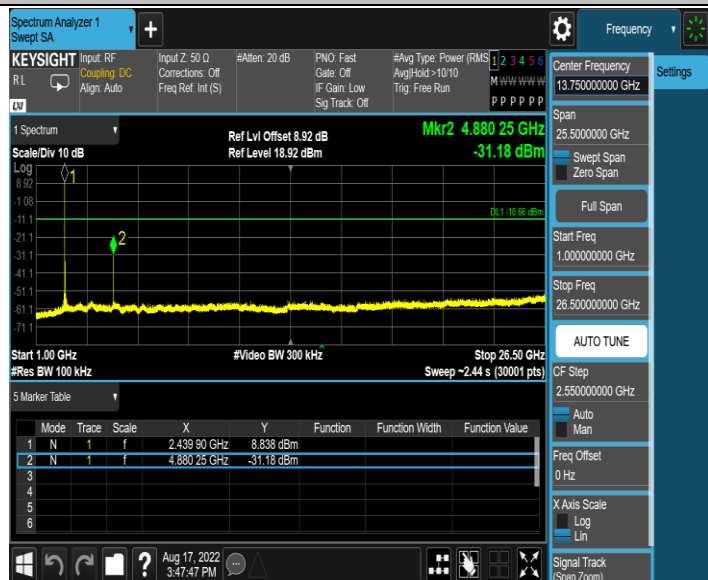
BLE_1M_Ant1_2402_1000~26500



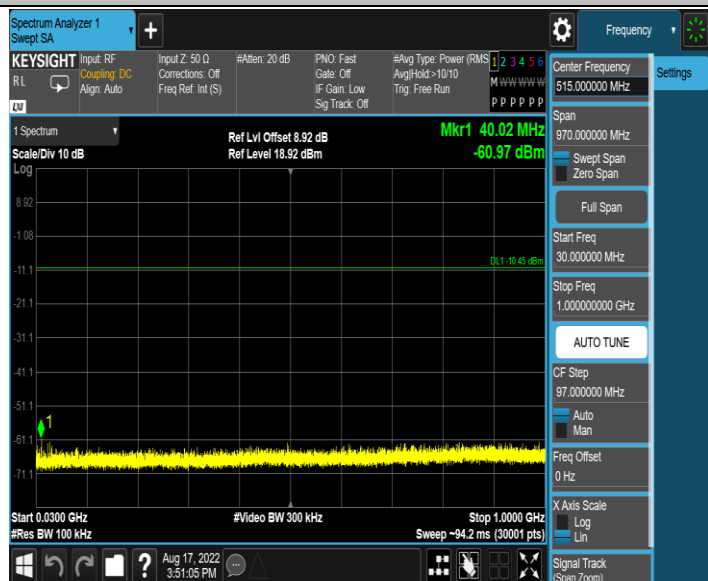
BLE_1M_Ant1_2440_30~1000



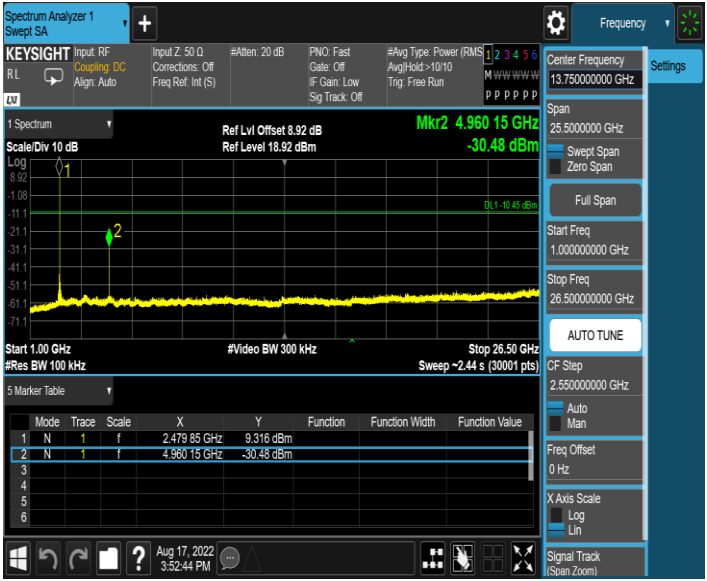
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



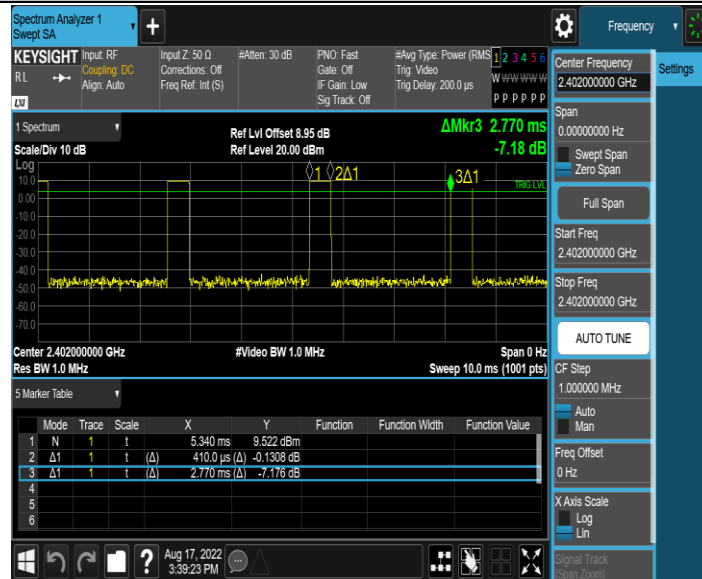
Appendix G: Duty Cycle

Test Result

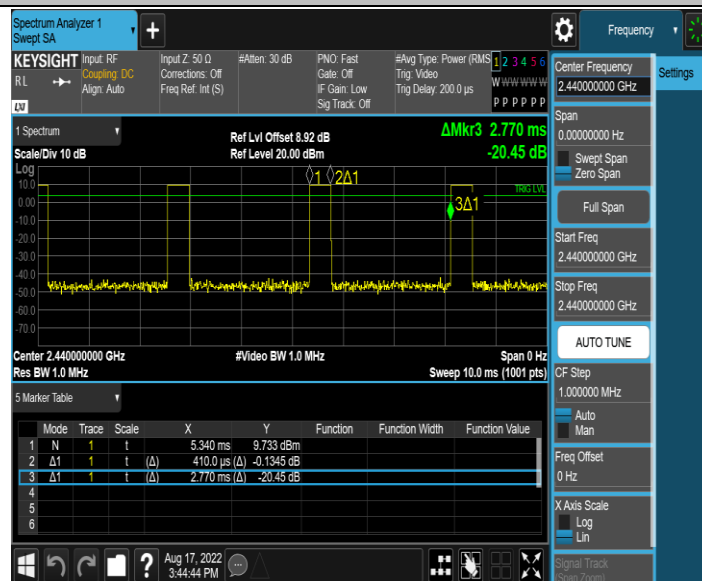
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.41	2.77	14.80	8.30
		2440	0.41	2.77	14.80	8.30
		2480	0.42	2.78	15.11	8.21

Test Graphs

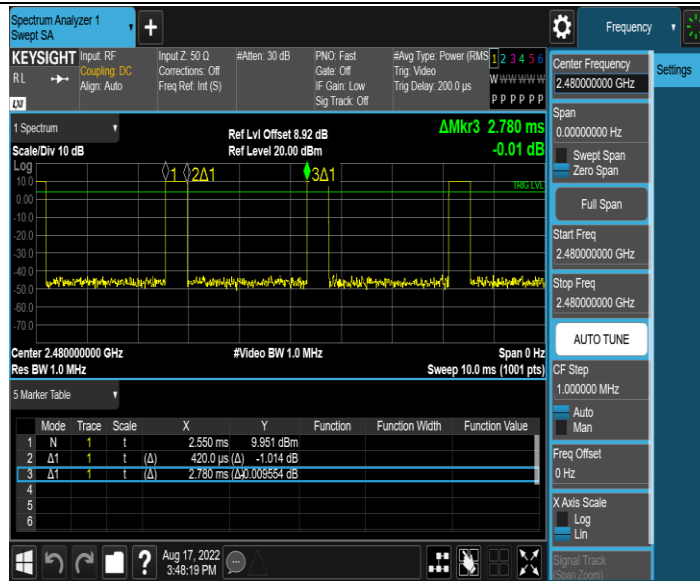
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

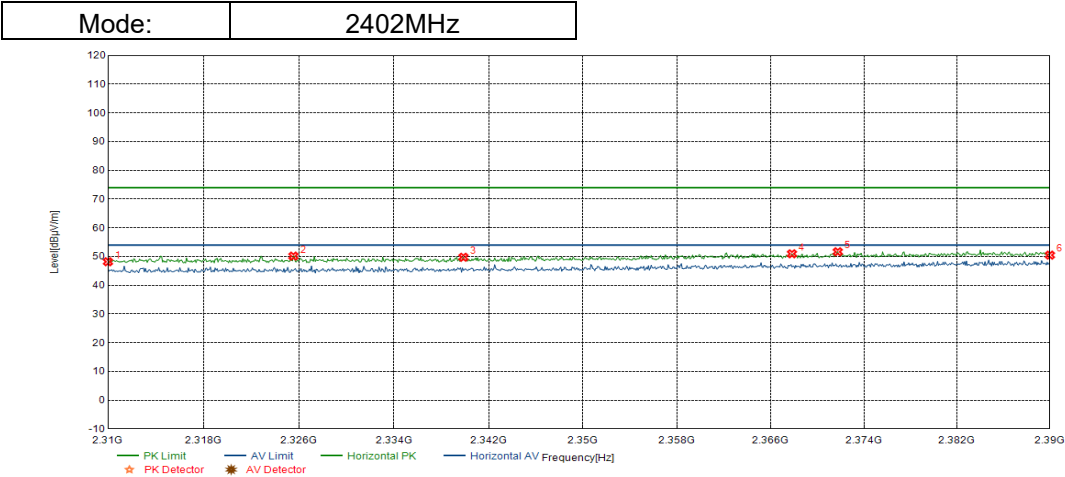


BLE_1M_Ant1_2480



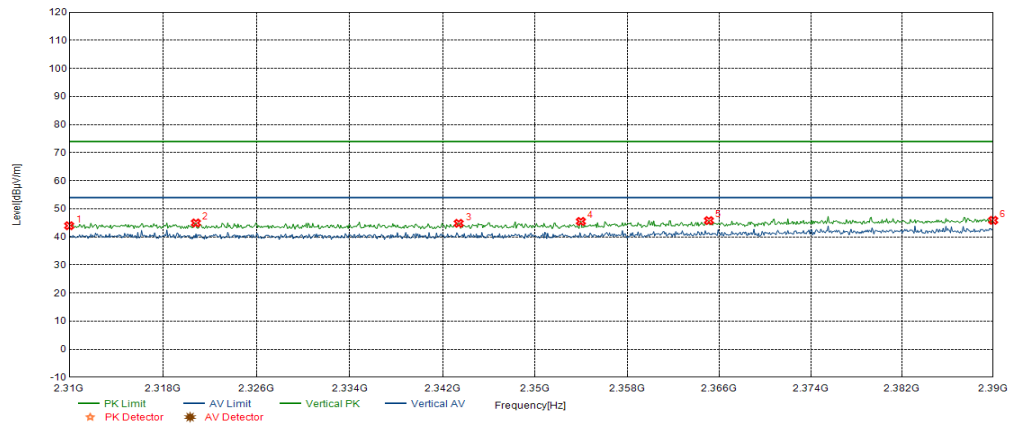
Appendix H: Emissions in Restricted Bands

Test Result



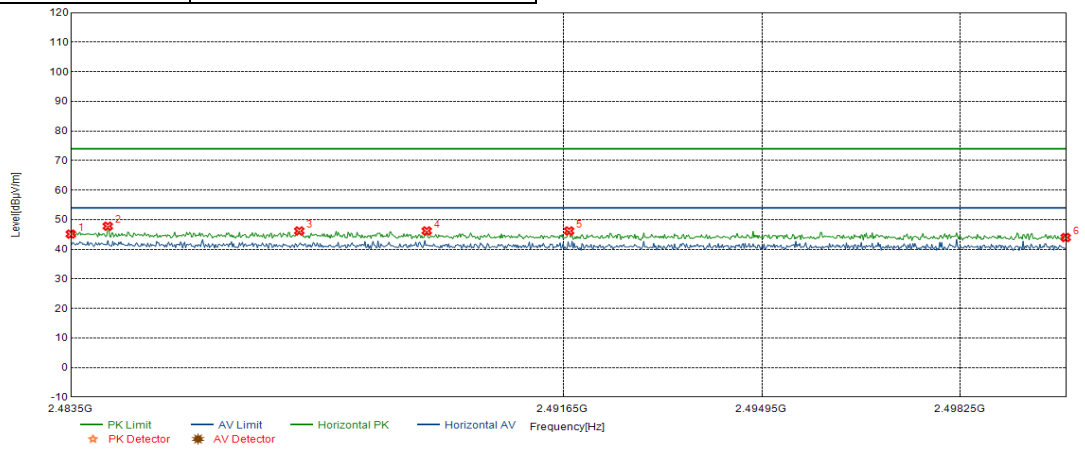
PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBµV/m]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Verdict
1	2310.00	67.98	48.19	-19.79	74.00	25.81	Horizontal	PASS
2	2325.53	69.92	50.16	-19.76	74.00	23.84	Horizontal	PASS
3	2339.86	69.50	49.76	-19.74	74.00	24.24	Horizontal	PASS
4	2367.81	69.72	50.96	-18.76	74.00	23.04	Horizontal	PASS
5	2371.74	70.22	51.67	-18.55	74.00	22.33	Horizontal	PASS
6	2390.00	68.07	50.50	-17.57	74.00	23.50	Horizontal	PASS

Mode:	2402 MHz
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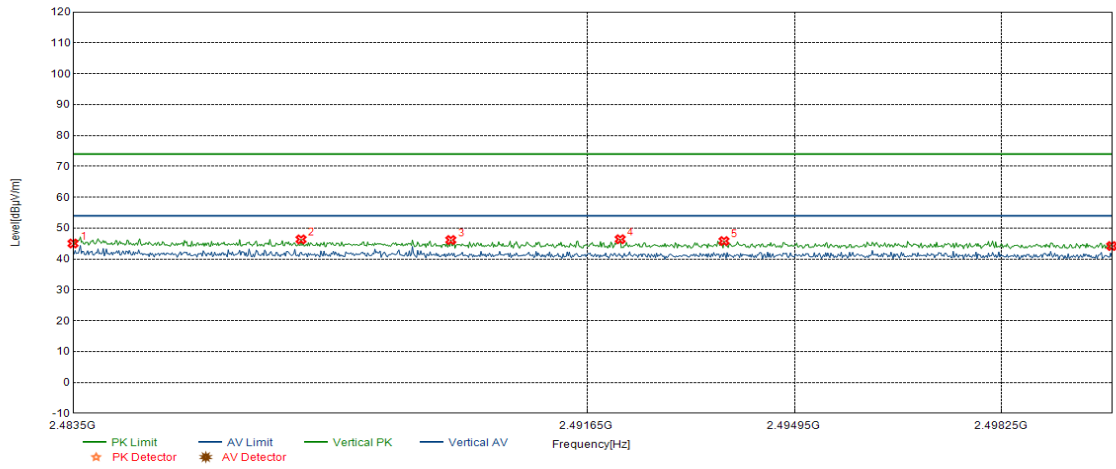
PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2310.00	63.77	43.98	-19.79	74.00	30.02	Vertical	PASS
2	2320.81	64.74	44.97	-19.77	74.00	29.03	Vertical	PASS
3	2343.39	64.57	44.84	-19.73	74.00	29.16	Vertical	PASS
4	2353.96	65.03	45.52	-19.51	74.00	28.48	Vertical	PASS
5	2365.09	64.73	45.82	-18.91	74.00	28.18	Vertical	PASS
6	2390.00	63.47	45.90	-17.57	74.00	28.10	Vertical	PASS

Mode:	2480 MHz
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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	2483.50	63.15	45.13	-18.02	74.00	28.87	Horizontal	PASS
2	2484.11	65.98	47.80	-18.18	74.00	26.20	Horizontal	PASS
3	2487.27	64.85	46.19	-18.66	74.00	27.81	Horizontal	PASS
4	2489.39	65.10	46.20	-18.90	74.00	27.80	Horizontal	PASS
5	2491.75	65.16	46.20	-18.96	74.00	27.80	Horizontal	PASS
6	2500.00	62.82	43.97	-18.85	74.00	30.03	Horizontal	PASS

Mode:	2480 MHz
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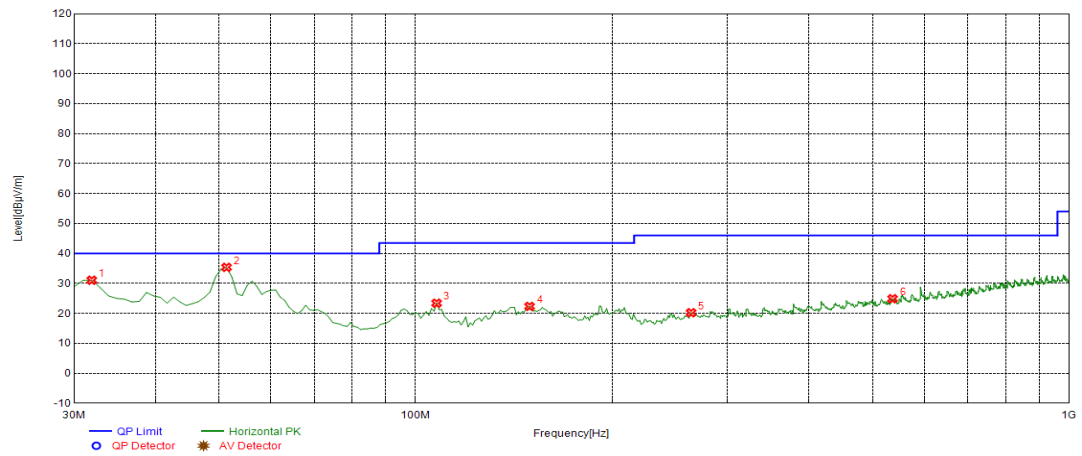


PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBµV/m]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Verdict
1	2483.50	63.04	45.02	-18.02	74.00	28.98	Vertical	PASS
2	2487.11	65.00	46.35	-18.65	74.00	27.65	Vertical	PASS
3	2489.48	65.08	46.16	-18.92	74.00	27.84	Vertical	PASS
4	2492.17	65.35	46.40	-18.95	74.00	27.60	Vertical	PASS
5	2493.82	64.75	45.82	-18.93	74.00	28.18	Vertical	PASS
6	2500.00	63.05	44.20	-18.85	74.00	29.80	Vertical	PASS

Appendix I: Spurious emissions

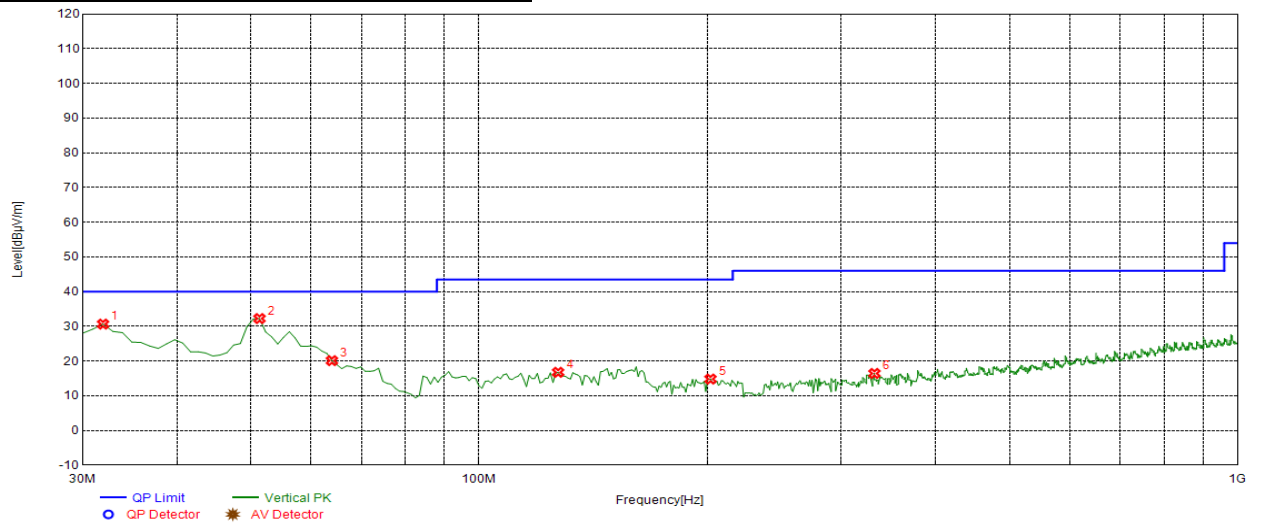
The worst case was recorded.

Mode:	2402MHz
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NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	31.9419	48.24	31.08	-17.16	40.00	8.92	Horizonta	PASS
2	51.3614	51.14	35.38	-15.76	40.00	4.62	Horizonta	PASS
3	107.677	42.83	23.41	-19.42	43.50	20.09	Horizonta	PASS
4	149.429	38.17	22.34	-15.83	43.50	21.16	Horizonta	PASS
5	264.004	36.86	20.23	-16.63	46.00	25.77	Horizonta	PASS
6	536.846	35.26	24.90	-10.36	46.00	21.10	Horizonta	PASS

Mode:	2402 MHz
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NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	31.9419	47.83	30.67	-17.16	40.00	9.33	Vertical	PASS
2	51.3614	48.02	32.26	-15.76	40.00	7.74	Vertical	PASS
3	63.9840	36.95	20.13	-16.82	40.00	19.87	Vertical	PASS
4	127.097	34.23	16.77	-17.46	43.50	26.73	Vertical	PASS
5	201.861	33.81	14.83	-18.98	43.50	28.67	Vertical	PASS
6	331.972	31.32	16.45	-14.87	46.00	29.55	Vertical	PASS

Mode:	2402 MHz
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PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Polarity	Verdict
1	7217.7852	63.31	-12.74	50.57	74.00	23.43	Horizontal	PASS
2	4803.7975	63.14	-16.47	46.67	74.00	27.33	Horizontal	PASS

AV Final Data List								
NO.	Freq. [MHz]	AV Reading [dBμV/m]	Factor [dB/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity	Verdict
1	7217.7852	48.72	-12.74	35.98	54.00	18.02	Horizontal	PASS
2	4803.7975	52.56	-16.47	36.09	54.00	17.91	Horizontal	PASS

PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Polarity	Verdict
1	7205.2752	72.60	-12.75	59.85	74.00	14.15	Vertical	PASS
2	4803.7975	63.71	-16.47	47.24	74.00	26.76	Vertical	PASS

AV Final Data List								
NO.	Freq. [MHz]	AV Reading [dBμV/m]	Factor [dB/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity	Verdict
1	7205.2752	65.50	-12.75	52.75	54.00	1.25	Vertical	PASS
2	4803.7975	53.17	-16.47	36.70	54.00	17.30	Vertical	PASS

Mode:	2440 MHz
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PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Polarity	Verdict
1	4878.7475	64.69	-16.32	48.37	74.00	25.63	Horizontal	PASS
2	7322.1186	63.3	-12.88	50.42	74.00	23.58	Horizontal	PASS

AV Final Data List								
NO.	Freq. [MHz]	AV Reading [dBμV/m]	Factor [dB/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity	Verdict
1	4878.7475	48.56	-16.32	32.24	54.00	21.76	Horizontal	PASS
2	7322.1186	50.64	-12.88	37.76	54.00	16.24	Horizontal	PASS

PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Polarity	Verdict
1	7319.2686	72.06	-12.90	59.16	74.00	14.84	Vertical	PASS
2	4878.7475	64.21	-16.32	47.89	74.00	26.11	Vertical	PASS

AV Final Data List								
NO.	Freq. [MHz]	AV Reading [dBμV/m]	Factor [dB/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity	Verdict
1	7319.2686	64.47	-12.90	51.57	54.00	2.43	Vertical	PASS
2	4878.7475	50.56	-16.32	34.24	54.00	19.76	Vertical	PASS

Mode:	2480 MHz
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PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Polarity	Verdict
1	4958.6942	65.39	-16.36	49.03	74.00	24.97	Horizontal	PASS
2	7442.0386	61.96	-12.73	49.23	74.00	24.77	Horizontal	PASS

AV Final Data List								
NO.	Freq. [MHz]	AV Reading [dBμV/m]	Factor [dB/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity	Verdict
1	4958.6942	50.04	-16.36	33.68	54.00	20.32	Horizontal	PASS
2	7442.0386	51.77	-12.73	39.04	54.00	14.96	Horizontal	PASS

PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Polarity	Verdict
1	7440.3886	71.33	-12.72	58.61	74.00	15.39	Vertical	PASS
2	4958.6942	64.72	-16.36	48.36	74.00	25.64	Vertical	PASS

AV Final Data List								
NO.	Freq. [MHz]	AV Reading [dBμV/m]	Factor [dB/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity	Verdict
1	7440.3886	64.44	-12.72	51.72	54.00	2.28	Vertical	PASS
2	4958.6942	50.94	-16.36	34.58	54.00	19.42	Vertical	PASS