

Appendix A: Duty cycle Test Result

Item	Duty Cycle																								
Mode	BLE																								
Rate	1Mbps																								
Channel	2402MHz, 2440MHz, 2480MHz																								
Result	Duty Cycle:40.21%; Burst:1.56ms; Period:3.88ms																								
Graph:	 Spectrum Analyzer 1 Sweep SA KEYSIGHT Input RF Input Z: 50 Ω Att: 10 dB PNO: Fast Data: Off IF Gain: Low Sig Track: Off Avg Type: Log Power Trg: Free Run Scale/Div 10 dB Log Ref Level 0.00 dBm Center 2.40200000 GHz Res BW 1.0 MHz #Video BW 3.0 MHz Span 0 Hz Sweep 20.0 ms (1001 pts) Marker 1: 3.880 ms, -17.77 dB Marker Mode: Delta (Δ) Marker Table: <table><tr><th>Mode</th><th>Trace</th><th>Scale</th><th>X</th><th>Y</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr><tr><td>Δ</td><td>1</td><td>1</td><td>3.880 ms (Δ)</td><td>-17.77 dB</td><td></td><td></td><td></td></tr><tr><td>F</td><td>1</td><td>1</td><td>10.24 ms</td><td>-57.94 dBm</td><td></td><td></td><td></td></tr></table> Mar 16, 2020 10:35:52 AM	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	Δ	1	1	3.880 ms (Δ)	-17.77 dB				F	1	1	10.24 ms	-57.94 dBm			
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Test Report No.: EFGX19090040-IE-01-E01

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Appendix B: 6dB bandwidth Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.744	2401.608	2402.352	≥ 0.5	PASS
		2440	0.756	2439.604	2440.360	≥ 0.5	PASS
		2480	0.736	2479.636	2480.372	≥ 0.5	PASS

Test Graphs



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BLE_2440



BLE_2480



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Appendix C: Conducted output power and E.I.R.P for DTS Test Result

Test Mode	Antenna	Channel	Conducted Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	4.12	<=30	PASS
		2440	4.07	<=30	PASS
		2480	3.7	<=30	PASS

Test Graphs



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BLE_2440



BLE_2480



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Appendix D: Power spectral density Test Result

Test Mode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-6.21	<=8	PASS
		2440	-5.9	<=8	PASS
		2480	-6.66	<=8	PASS

Test Graphs



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BLE_2440



BLE_2480



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Appendix E: Band edge Test Result

Test Mode	Antenna	Ch Name	Channel	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	3.10	-38.13	<=-16.9	PASS
		High	2480	2.68	-49.82	<=-17.32	PASS

Test Graphs

BLE_2402



BLE_2480



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Appendix F: Emissions in Restricted Bands Test Result

Test Mode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE	Ant1	Low	2402	AV	2310.000	-45.82	<=-41.20	PASS
				AV	2390.000	-44.75	<=-41.20	PASS
				Peak	2310.000	-42.54	<=-21.20	PASS
				Peak	2390.000	-40.34	<=-21.20	PASS
		High	2480	AV	2483.500	-43.76	<=-41.20	PASS
				AV	2500.000	-45.49	<=-41.20	PASS
				Peak	2483.500	-42.09	<=-21.20	PASS
				Peak	2500.000	-43.56	<=-21.20	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.

Test Graphs

BLE_2402_AV



BLE_2402_Peak



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BLE_2480_AV



BLE_2480_Peak



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Appendix G: Spurious RF conducted emissions Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	2.90	2.90	---	PASS
			30~1000	30~1000	-62.54	<=-17.104	PASS
			1000~26500	1000~26500	-30.837	<=-17.104	PASS
		2440	Reference	2.42	2.42	---	PASS
			30~1000	30~1000	-62.169	<=-17.58	PASS
			1000~26500	1000~26500	-33.335	<=-17.58	PASS
		2480	Reference	2.48	2.48	---	PASS
			30~1000	30~1000	-62.79	<=-17.523	PASS
			1000~26500	1000~26500	-34.932	<=-17.523	PASS

Test Graphs



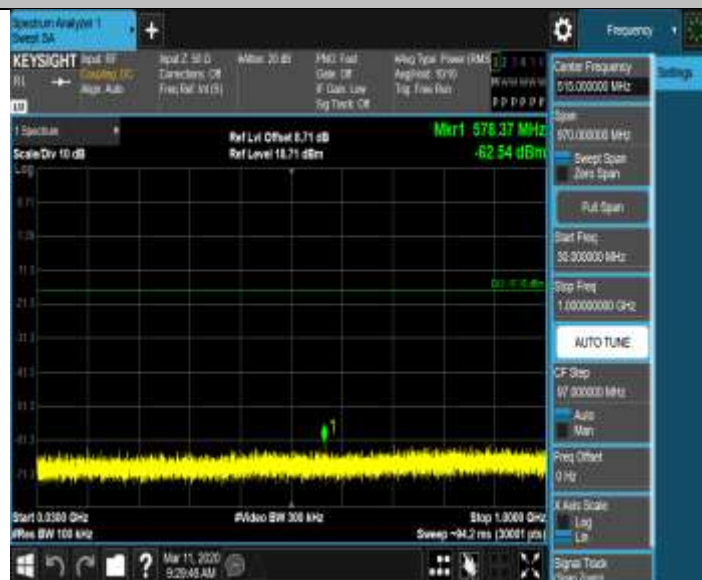
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BLE_2402_30~1000



BLE_2402_1000~26500



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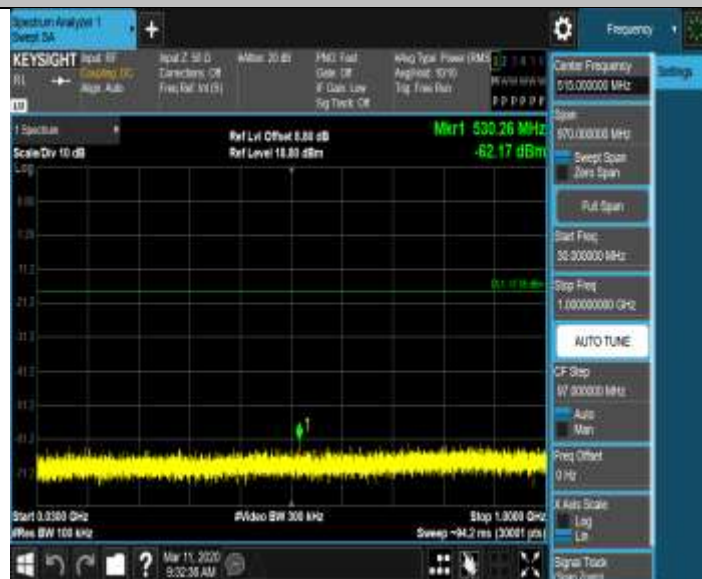
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BLE_2440_0-Reference



BLE_2440_30~1000



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BLE_2440_1000~26500



BLE_2480_0~Reference



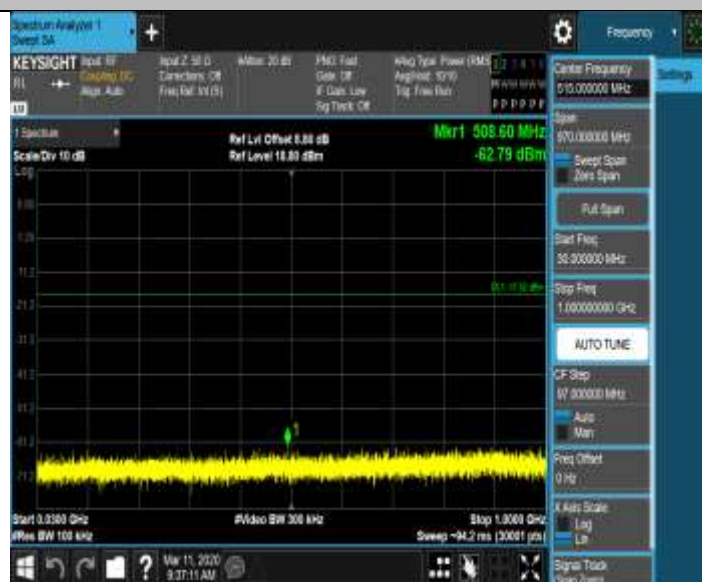
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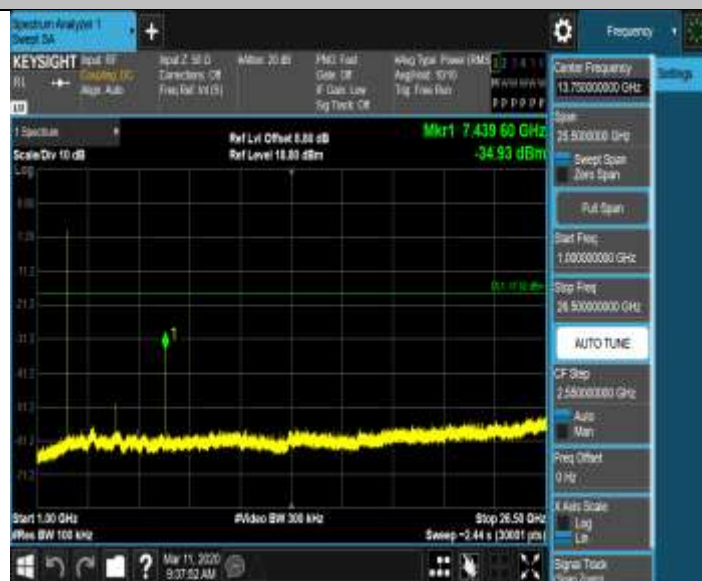
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BLE_2480_30~1000



BLE_2480_1000~26500



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