

Appendix B

RF Test Data for BT V5.0(BDR/EDR) (Conducted Measurement)

Product Name: Microphone Speaker

Trade Mark: SUPERSONIC

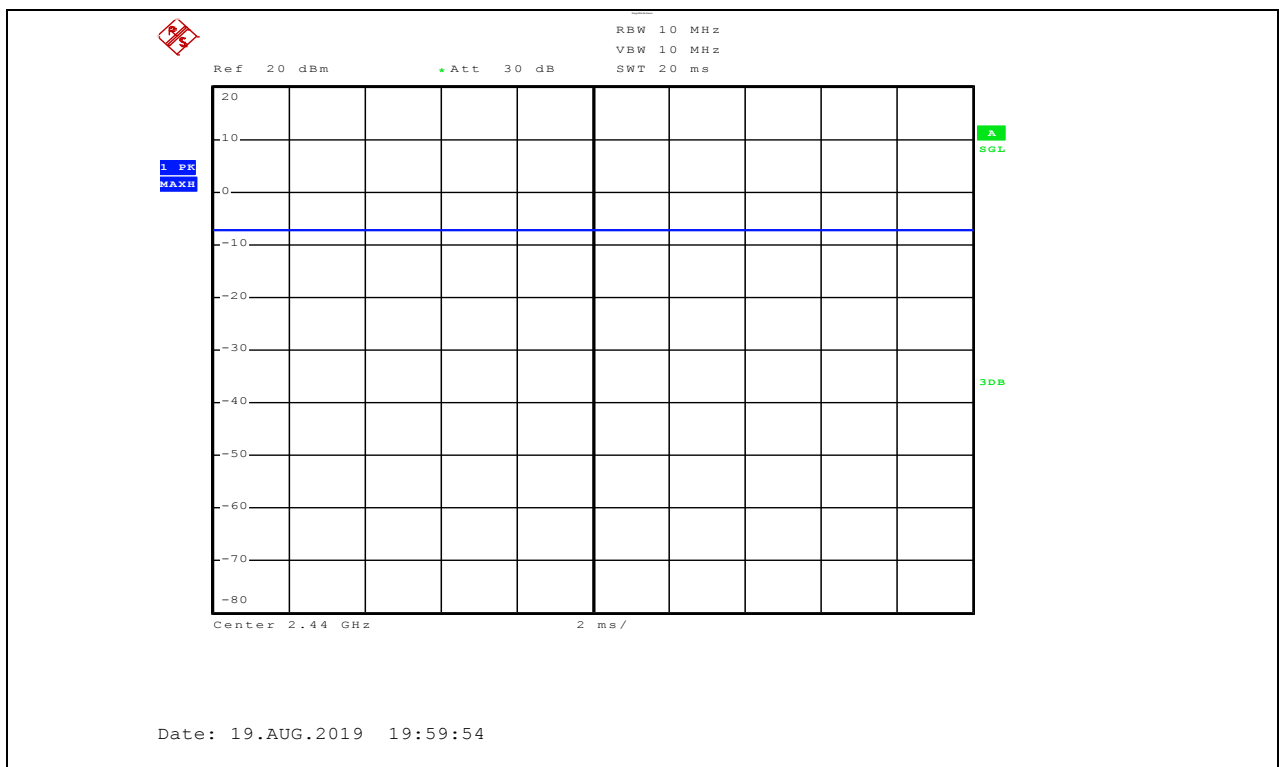
Test Model: SC-904BTK

Environmental Conditions

Temperature:	24.1°C
Relative Humidity:	52.8%
ATM Pressure:	100.0 kPa
Test Engineer:	JERRY.ZENG
Supervised by:	Wang.Chuang

B.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS

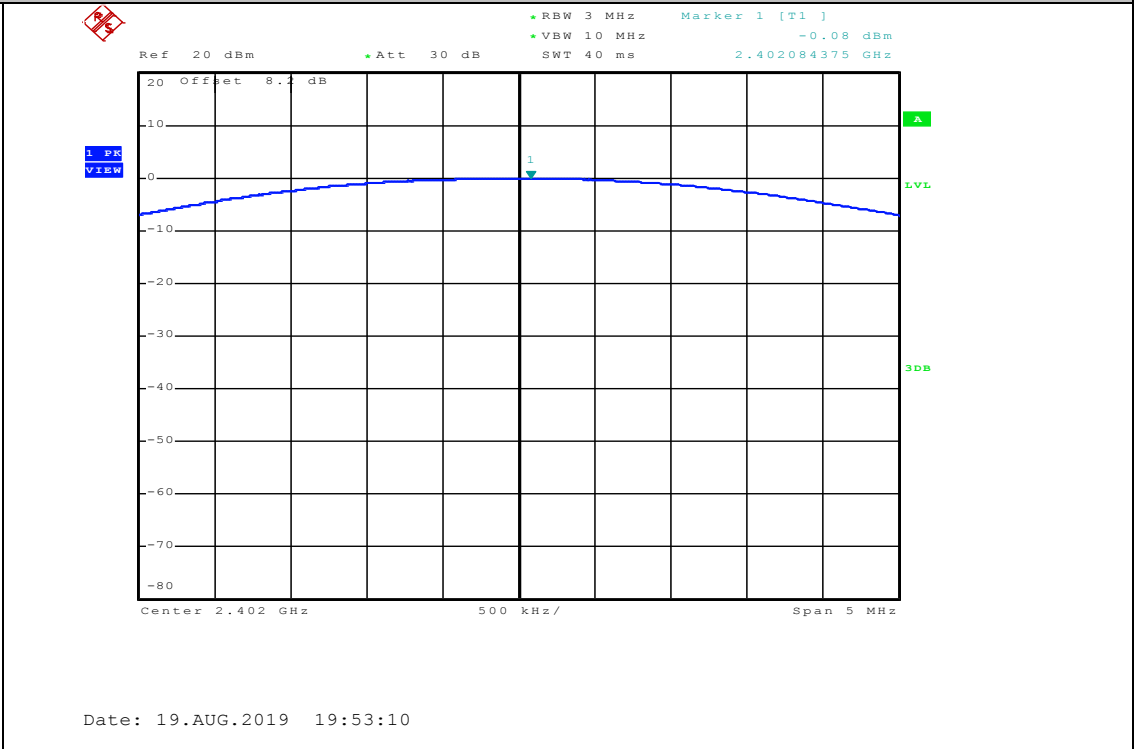


B.2 Maximum Conducted Peak Output Power

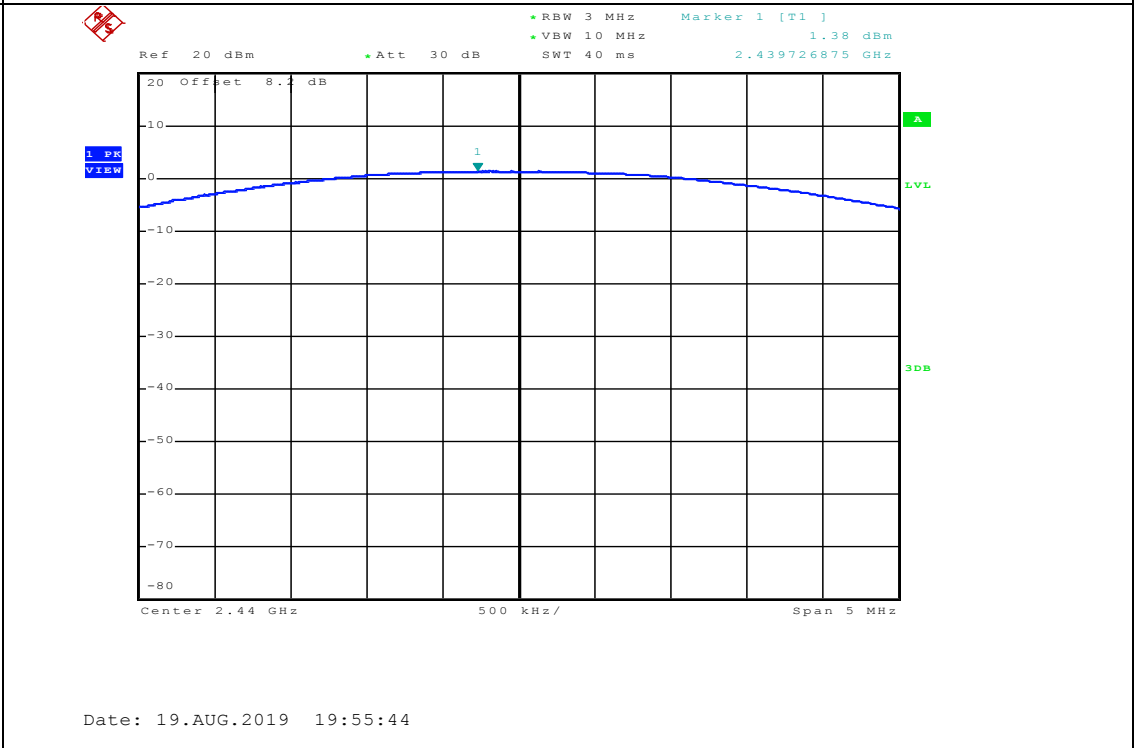
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.08	30	PASS
BT LE	MCH	1.38	30	PASS
BT LE	HCH	0.07	30 </td <td>PASS</td>	PASS

Test Graphs

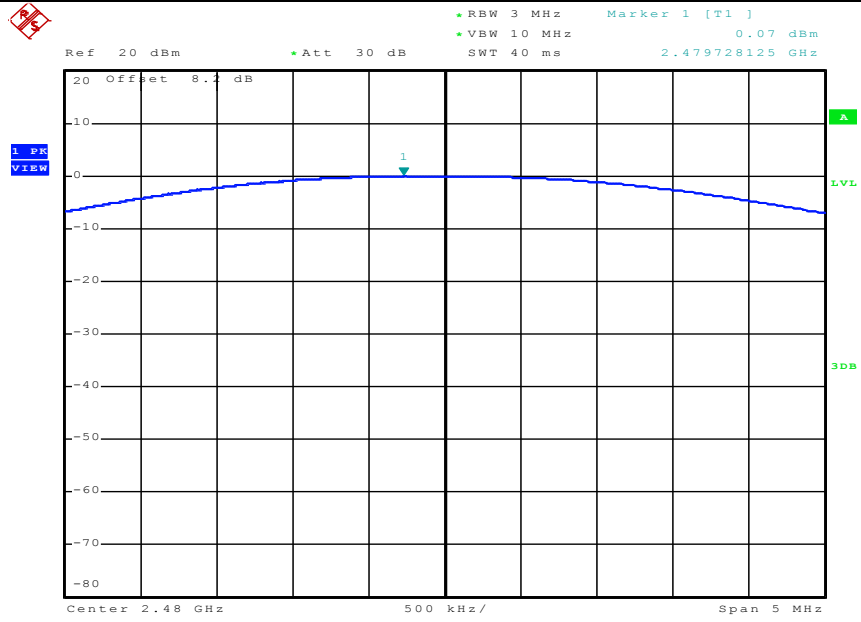
LCH



MCH



HCH



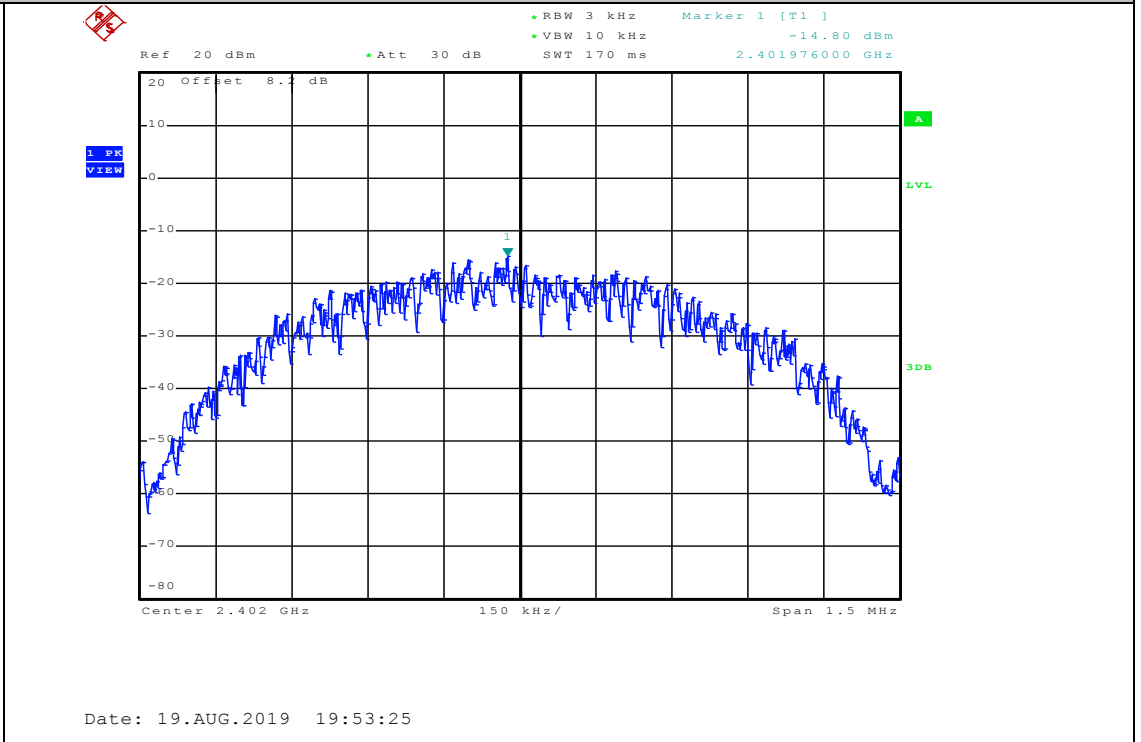
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B.3 Maximum Power Spectral Density

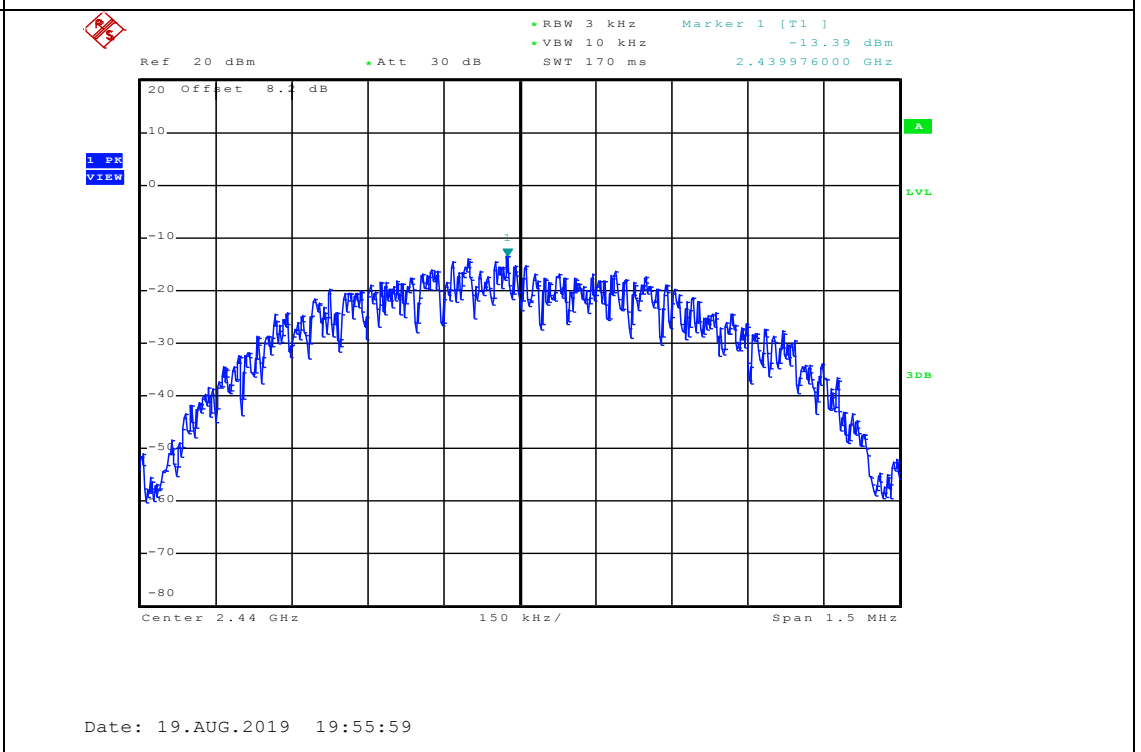
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.800	8	PASS
BT LE	MCH	-13.390	8	PASS
BT LE	HCH	-14.720	8	PASS

Test Graphs

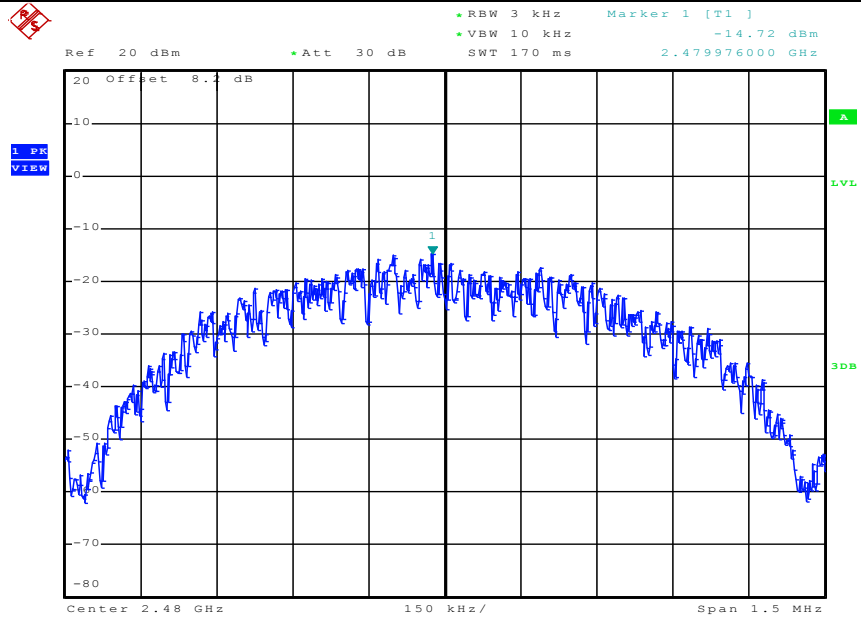
LCH



MCH



HCH



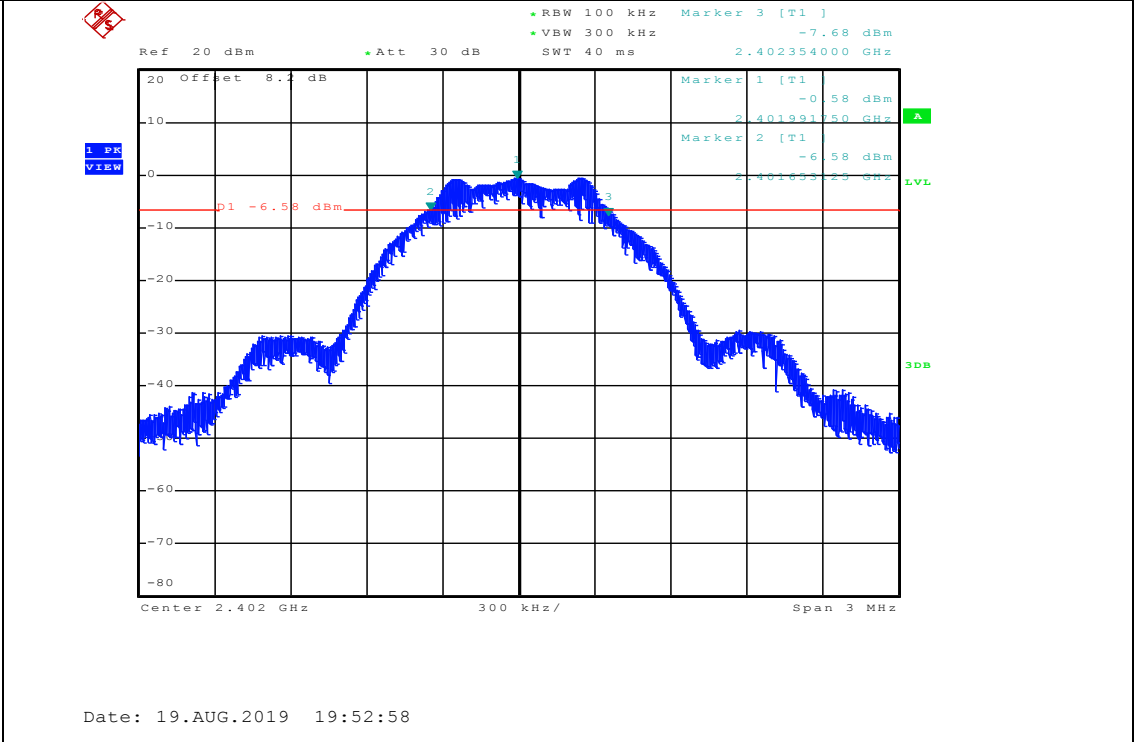
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B.4 6dB Bandwidth

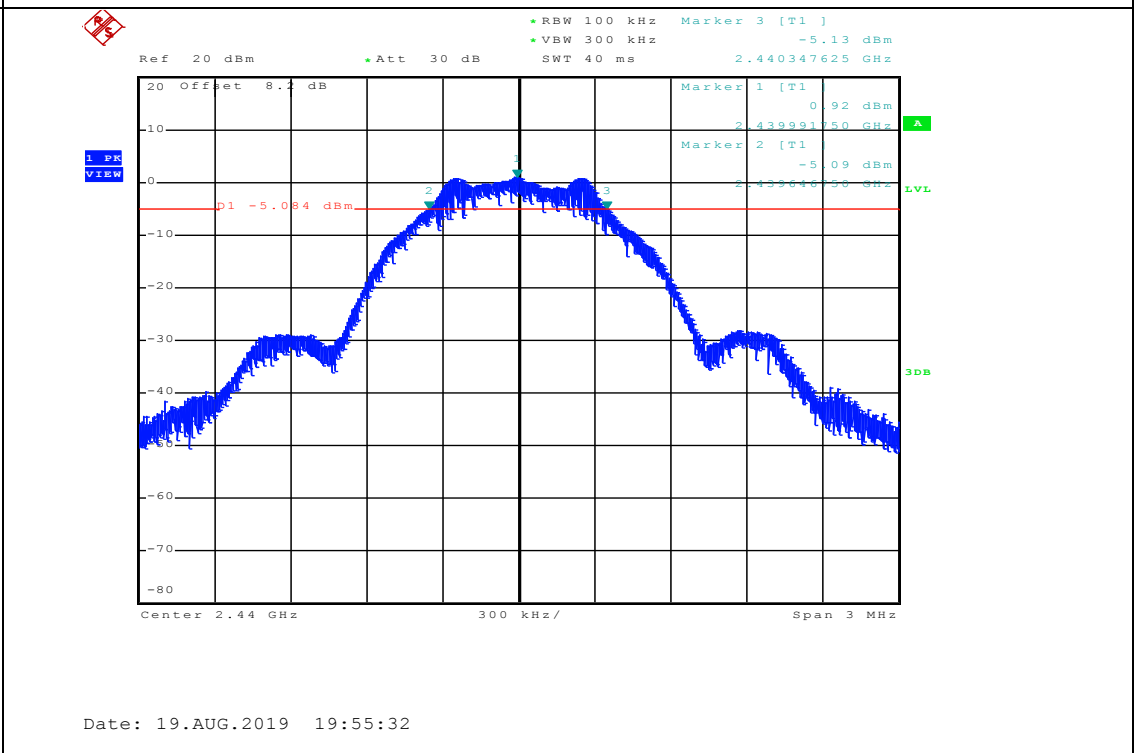
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.701	≥0.5	PASS
BT LE	MCH	0.701	≥0.5	PASS
BT LE	HCH	0.694	≥0.5	PASS

Test Graphs

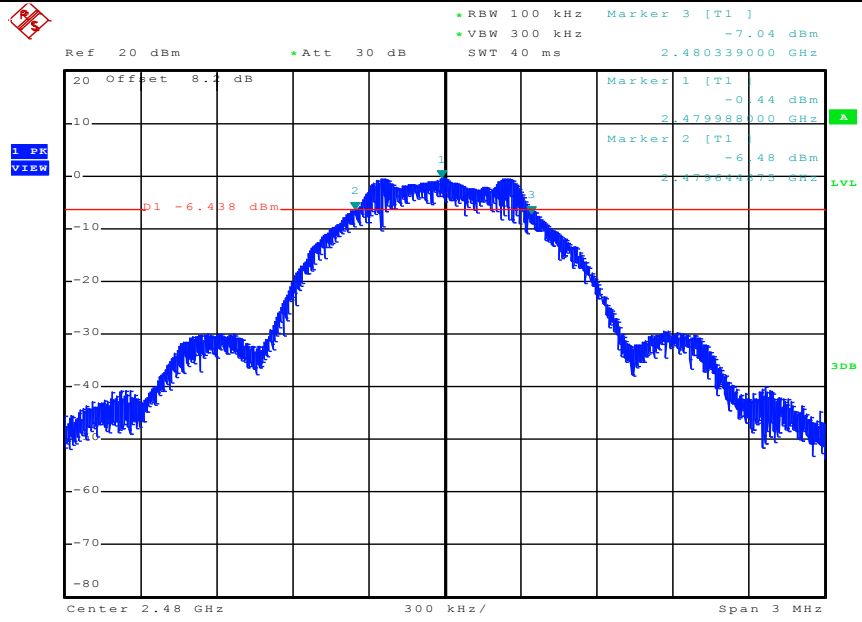
LCH



MCH



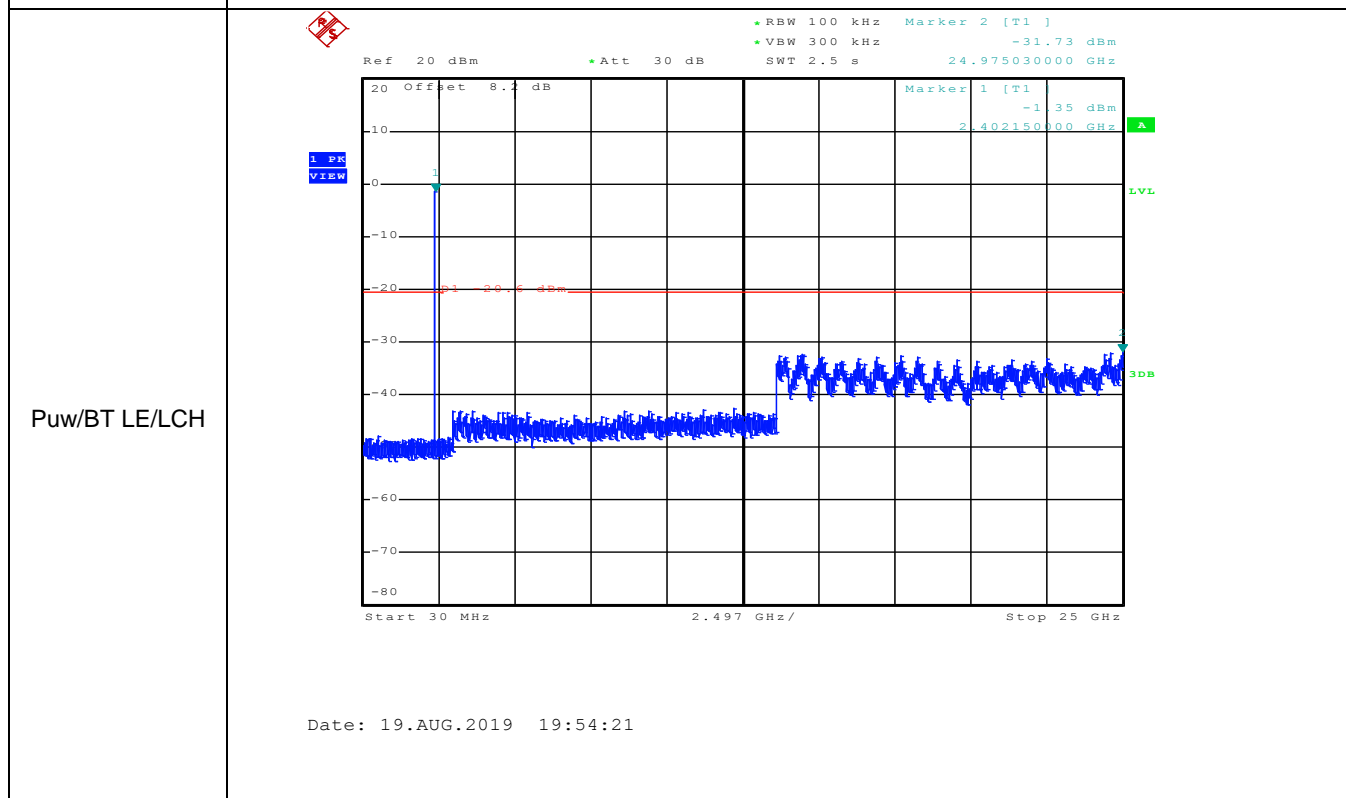
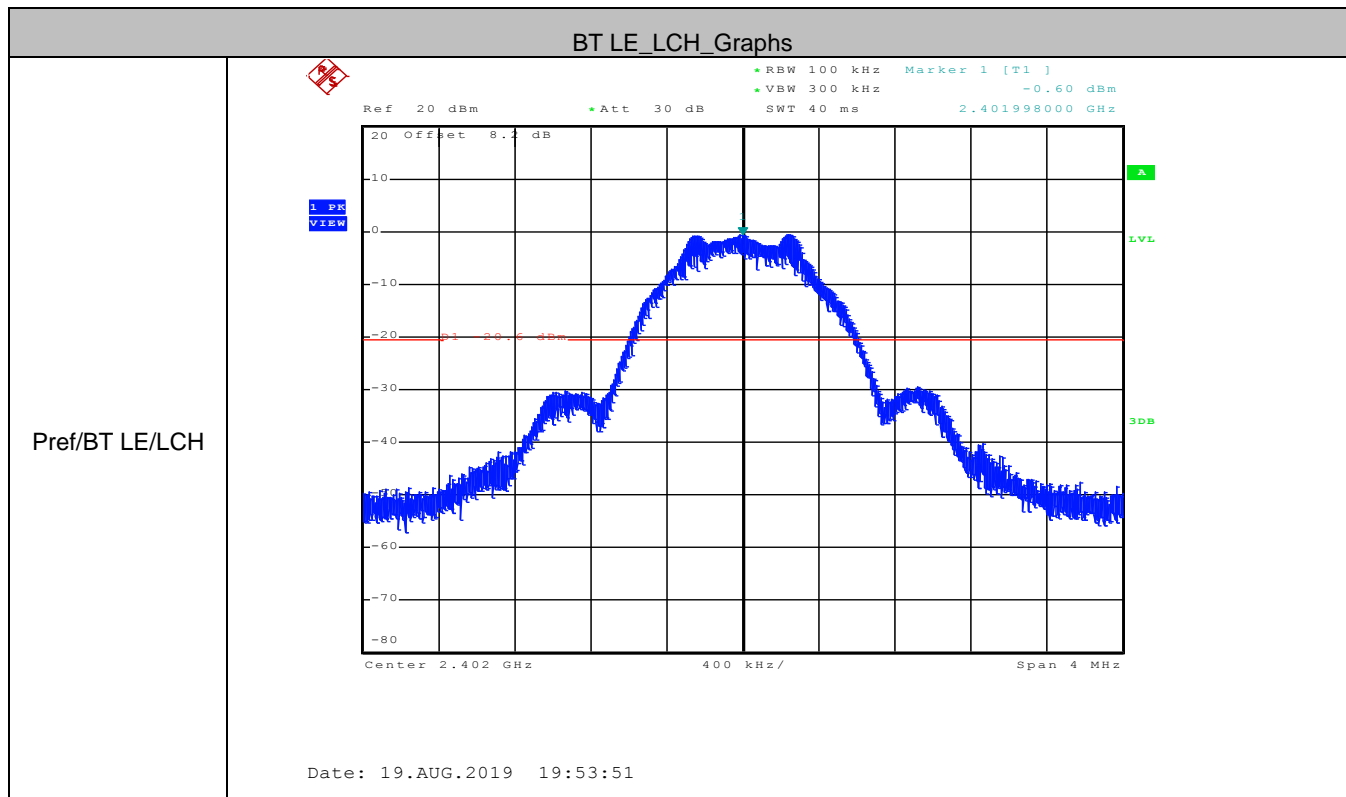
HCH



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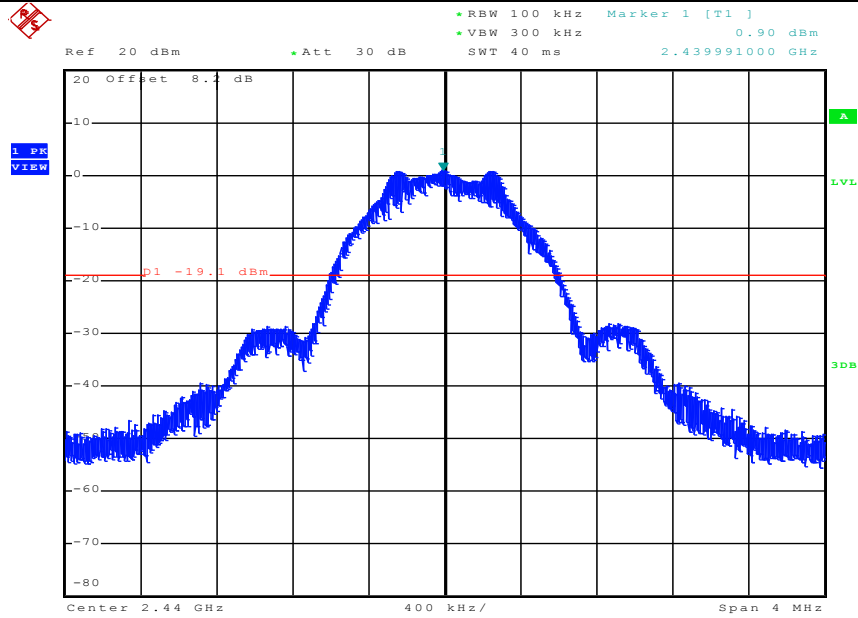
B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.6	-31.730	-20.600	PASS
BT LE	MCH	0.9	-31.800	-19.100	PASS
BT LE	HCH	-0.44	-31.950	-20.440	PASS



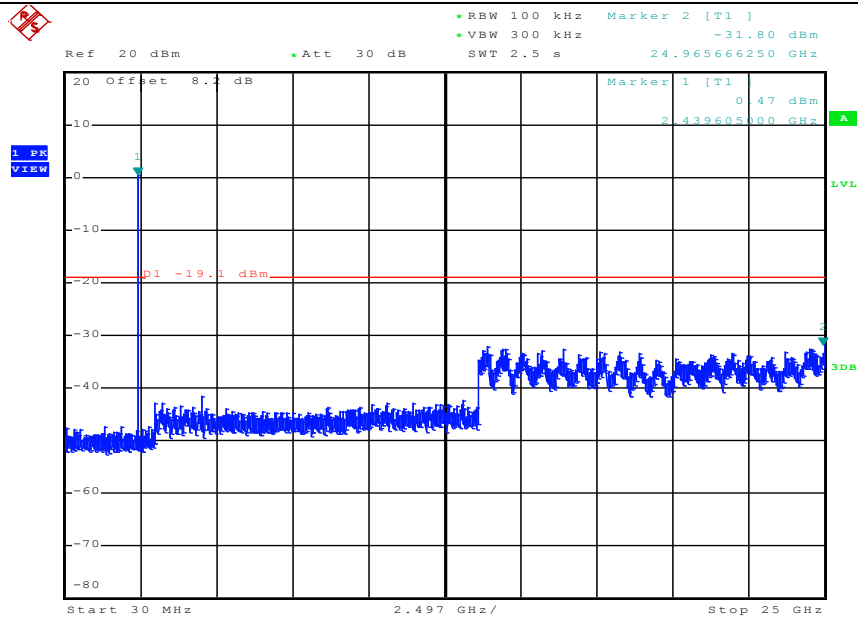
BT LE_MCH_Graphs

Pref/BT LE/MCH



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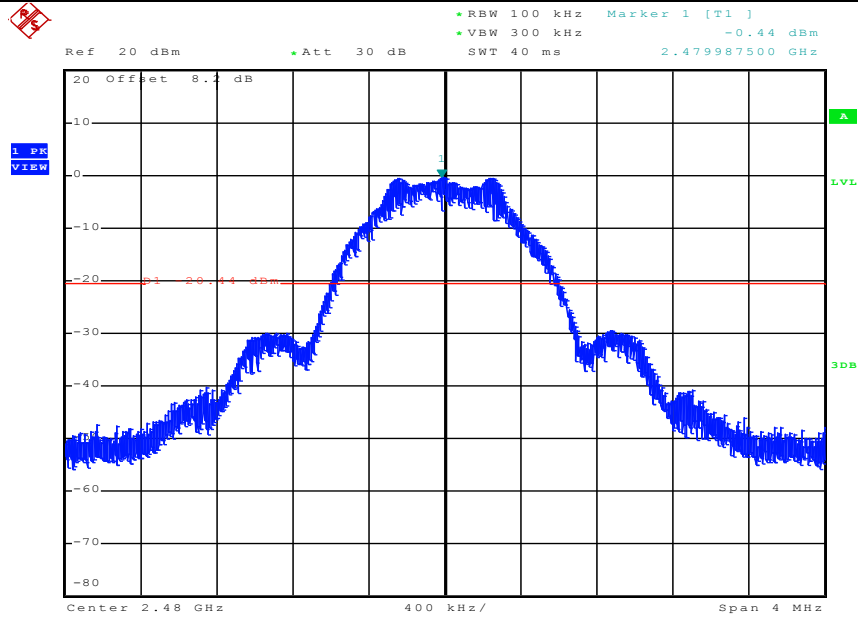
Puw/BT LE/MCH



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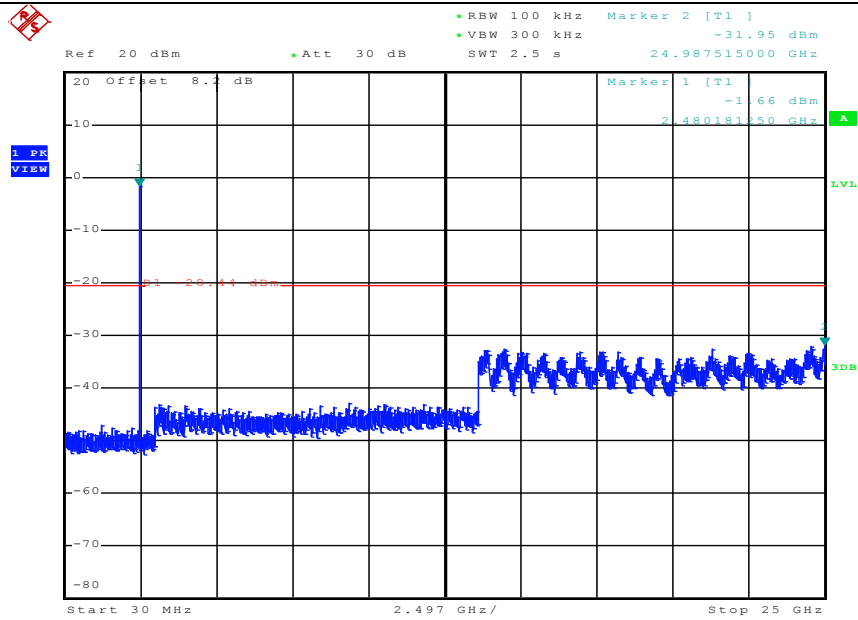
BT LE_HCH_Graphs

Pref/BT LE/HCH



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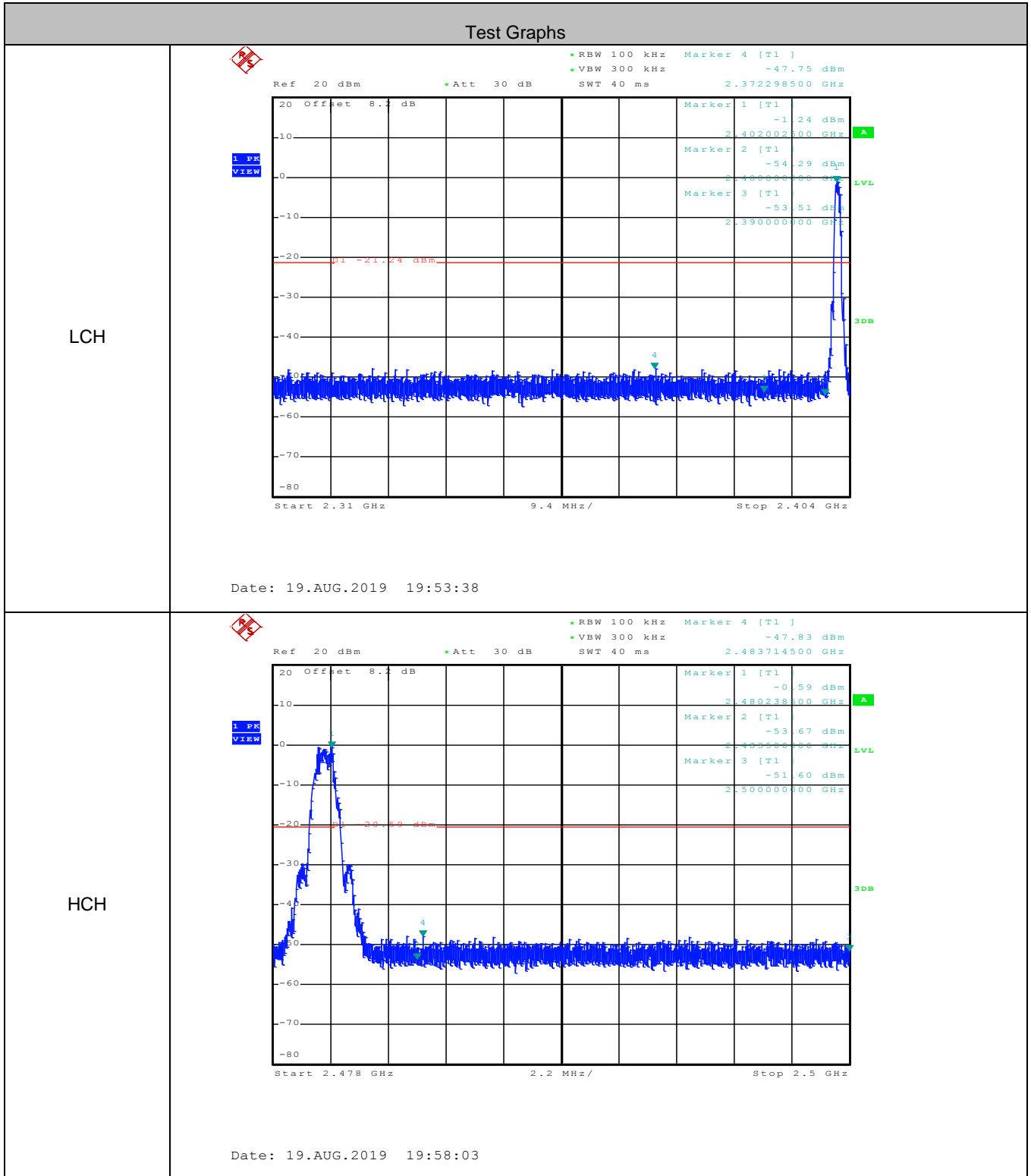
Puw/BT LE/HCH



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B.6 Band-edge for RF Conducted Emissions

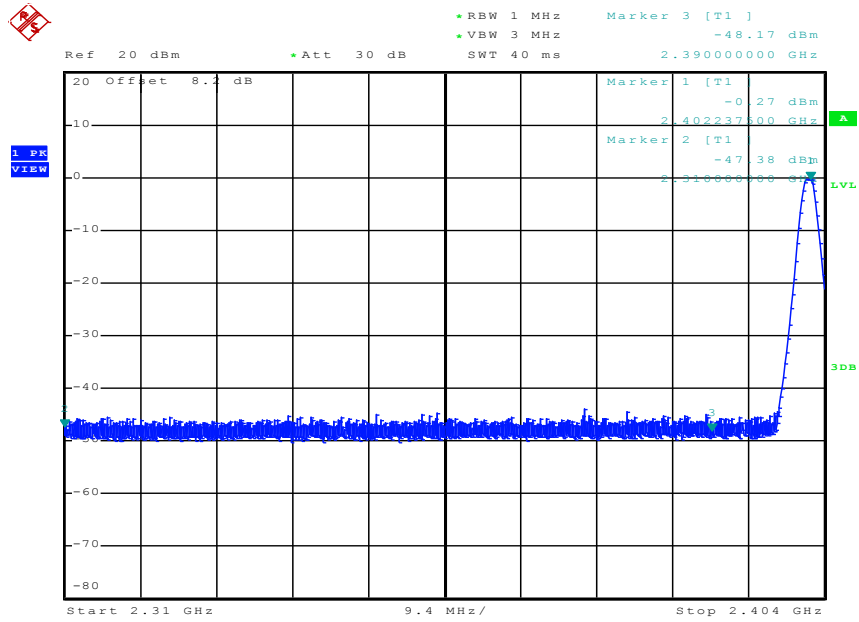
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.240	-47.747	-21.24	PASS
BT LE	HCH	-0.590	-47.829	-20.59	PASS



B.7 Restrict-band band-edge measurements

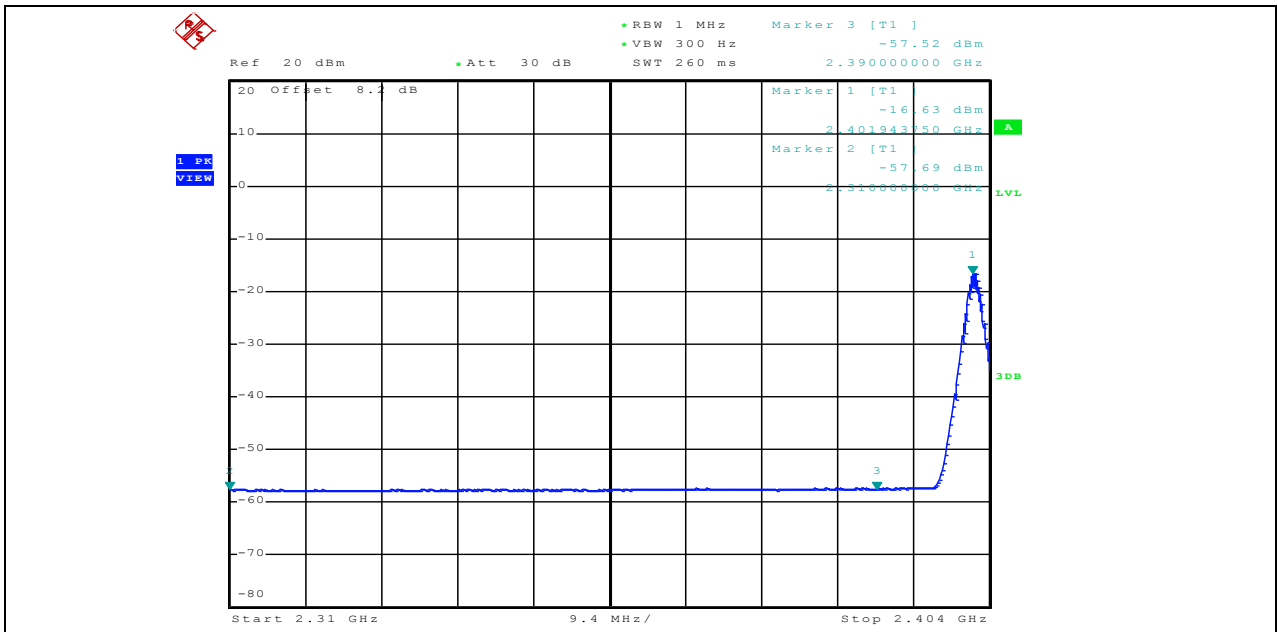
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-47.38	2.0	0	47.88	PEAK	74	PASS
		Ant1	2310.0	-57.69	2.0	0	37.57	AV	54	PASS
		Ant1	2390.0	-48.17	2.0	0	47.09	PEAK	74	PASS
		Ant1	2390.0	-57.52	2.0	0	37.74	AV	54	PASS
	2480	Ant1	2483.5	-38.79	2.0	0	56.47	PEAK	74	PASS
		Ant1	2483.5	-47.60	2.0	0	47.66	AV	54	PASS
		Ant1	2500.0	-48.66	2.0	0	46.60	PEAK	74	PASS
		Ant1	2500.0	-58.00	2.0	0	37.26	AV	54	PASS

Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



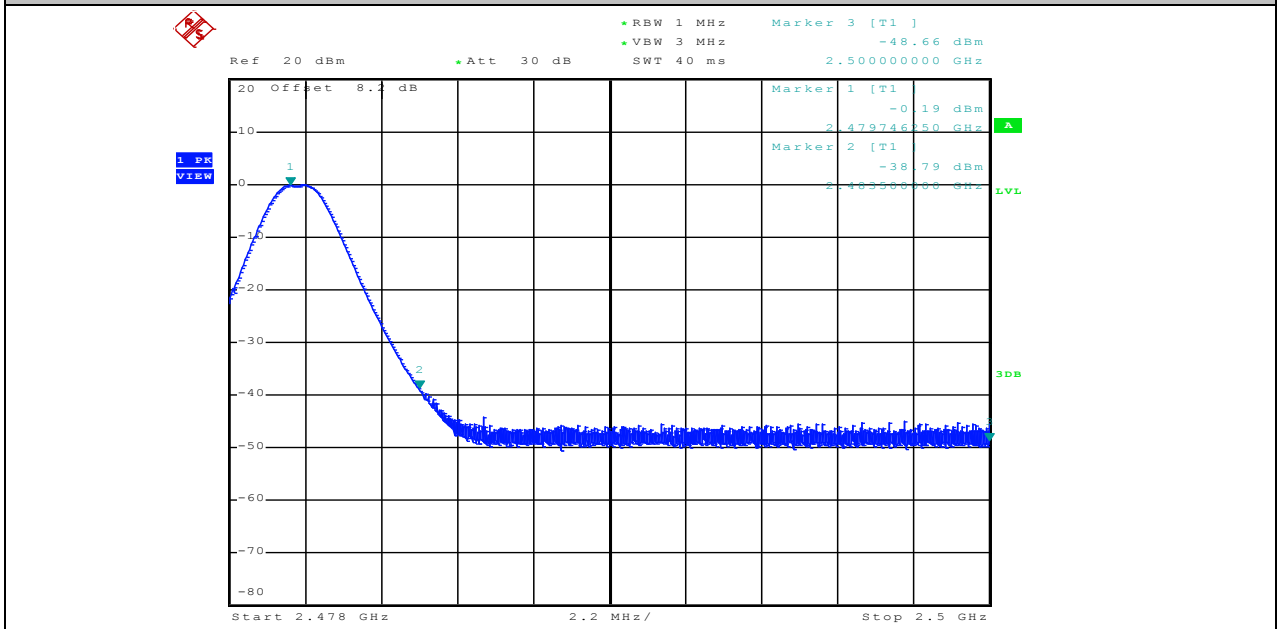
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Restrict-band band-edge measurements_BT LE_2402_Ant1_AV



Date: 19.AUG.2019 19:54:55

Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



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Restrict-band band-edge measurements_BT LE_2480_Ant1_AV

