

Appendix B

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

Product Name: Hand-held Barcode Scanner

Trade Mark: Newland

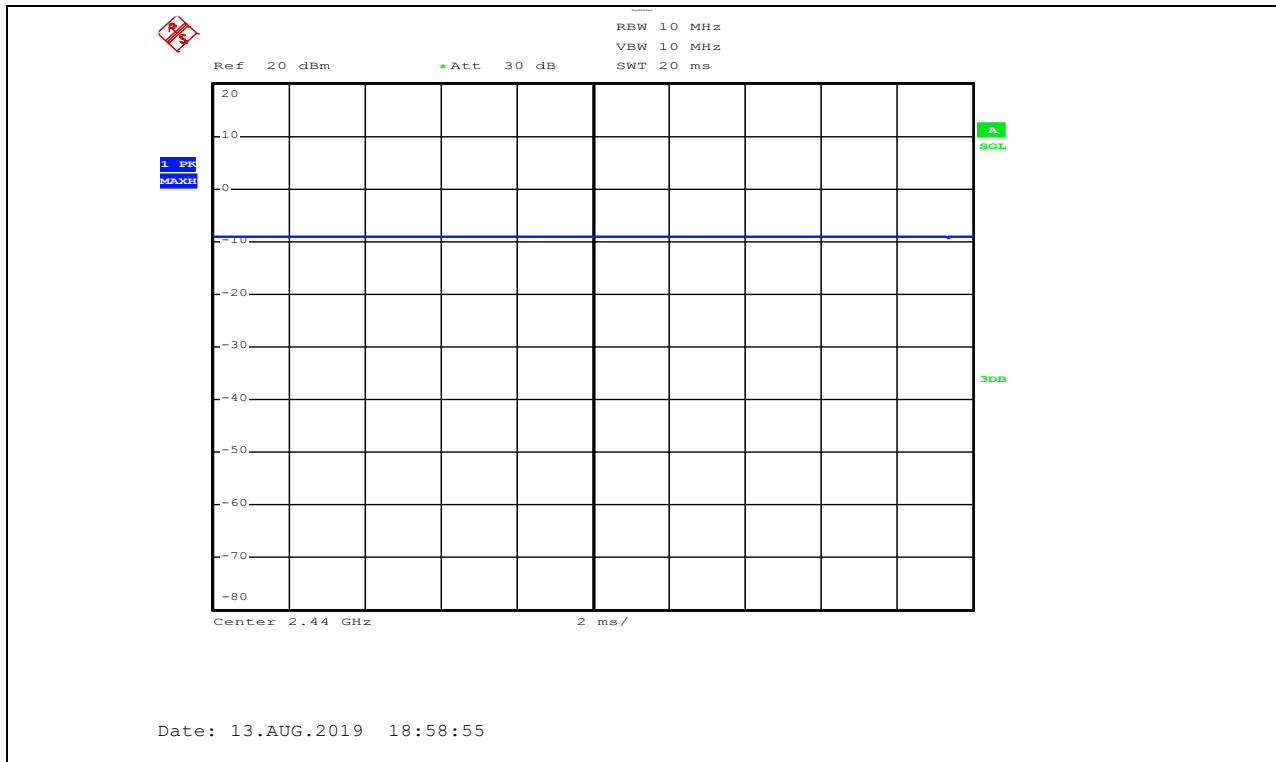
Test Model: NLS-HR32

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	SCENT HU
Supervised by:	Wang.Chuang

B.1 Duty Cycle

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

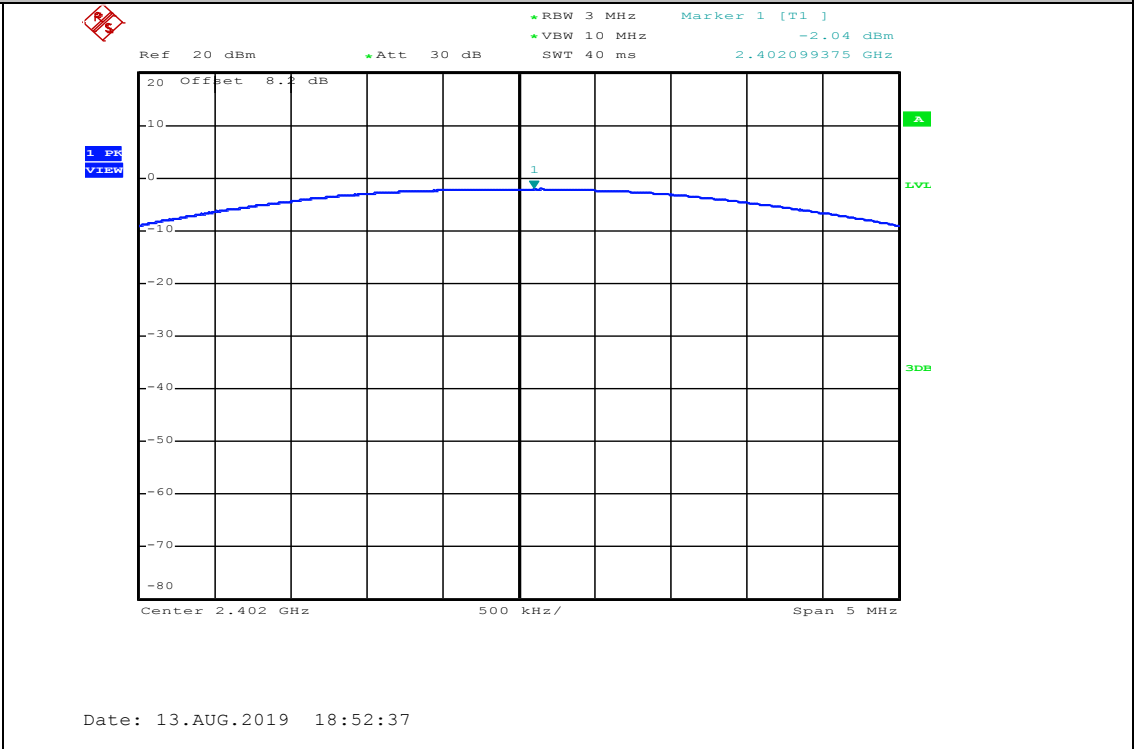


B.2 Maximum Conducted Peak Output Power

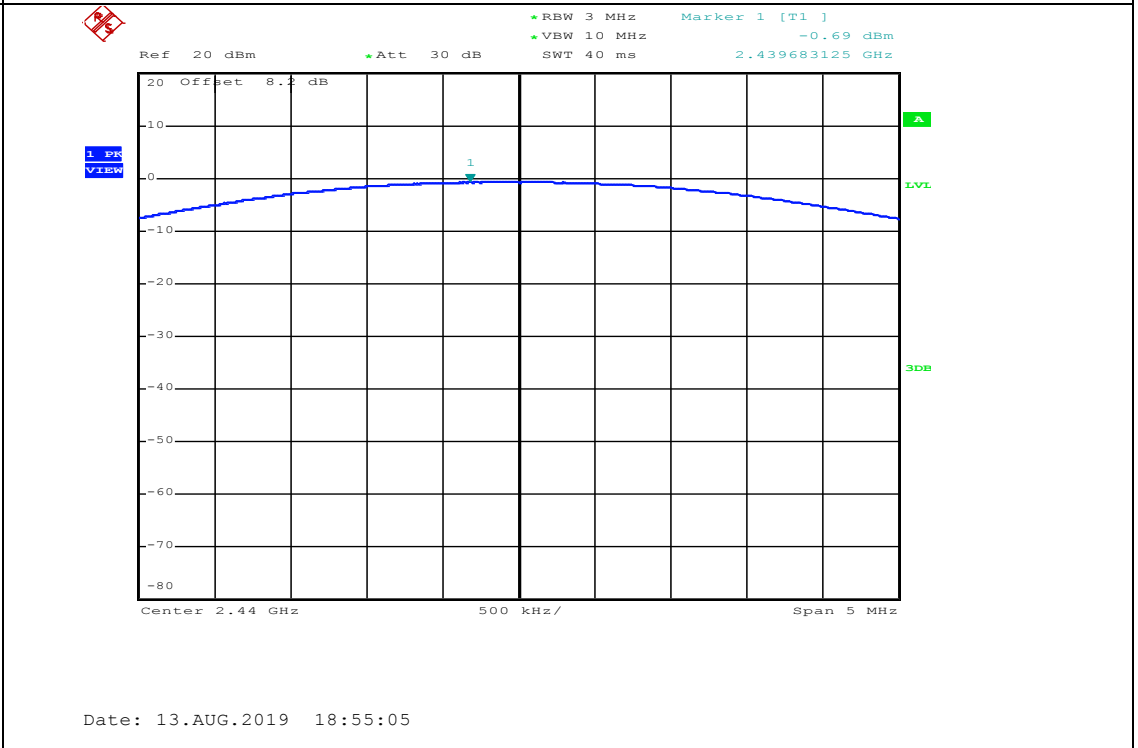
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.04	30	PASS
BT LE	MCH	-0.69	30	PASS
BT LE	HCH	-1.61	30	PASS

Test Graphs

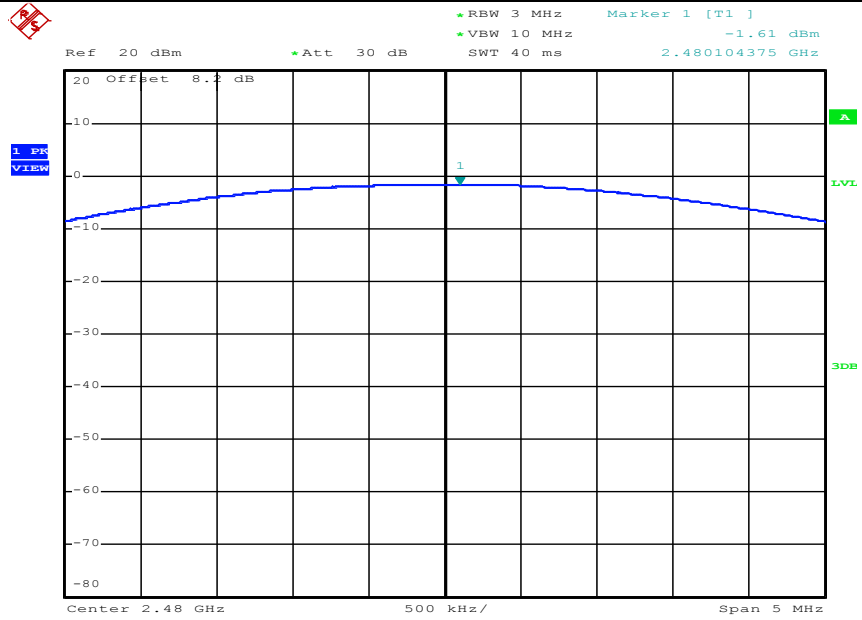
LCH



MCH



HCH



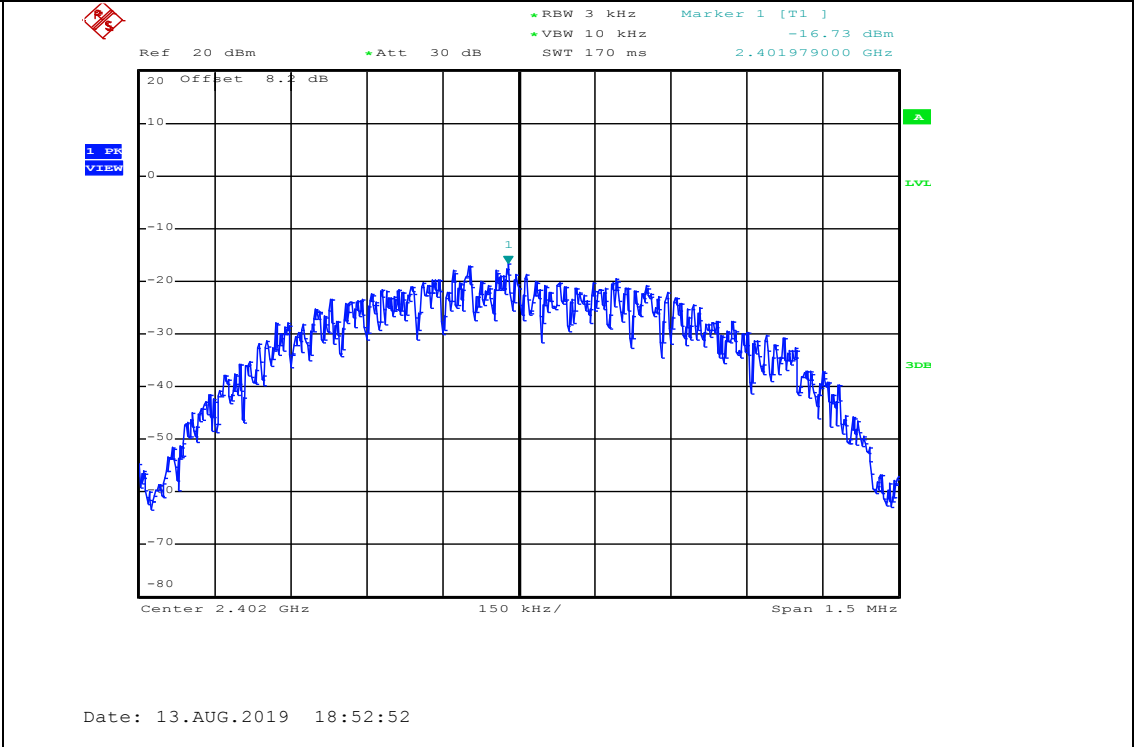
Date: 13.AUG.2019 18:56:49

B.3 Maximum Power Spectral Density

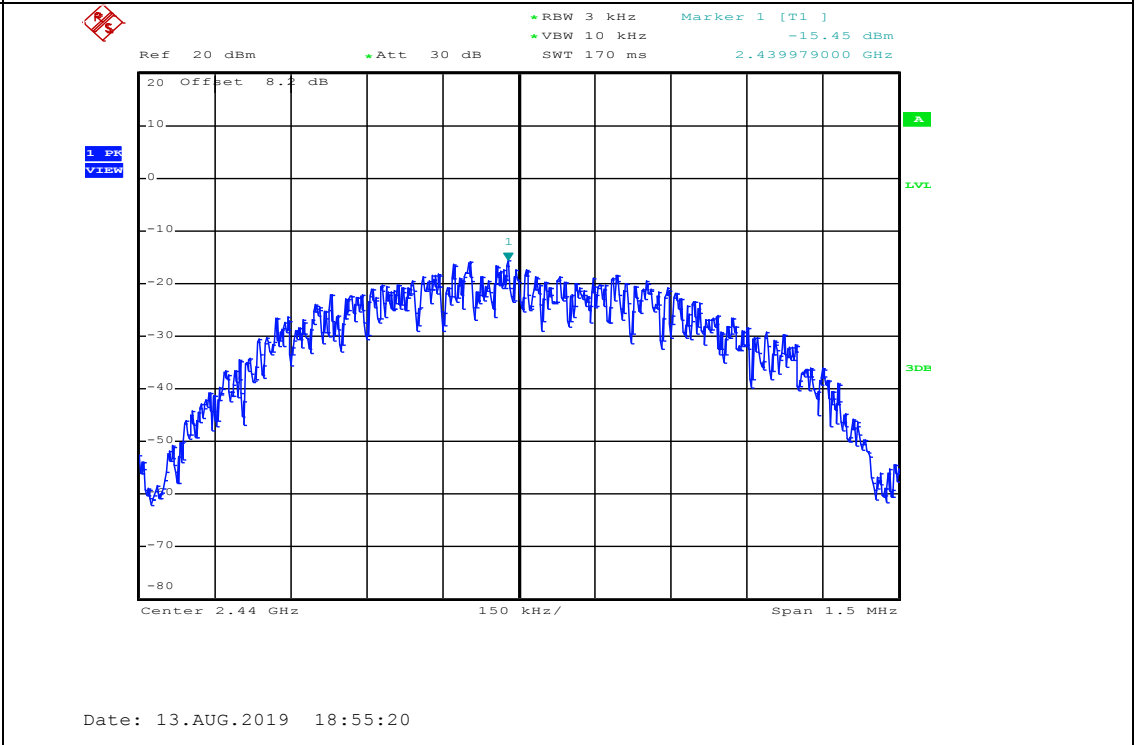
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-16.730	8	PASS
BT LE	MCH	-15.450	8	PASS
BT LE	HCH	-16.330	8	PASS

Test Graphs

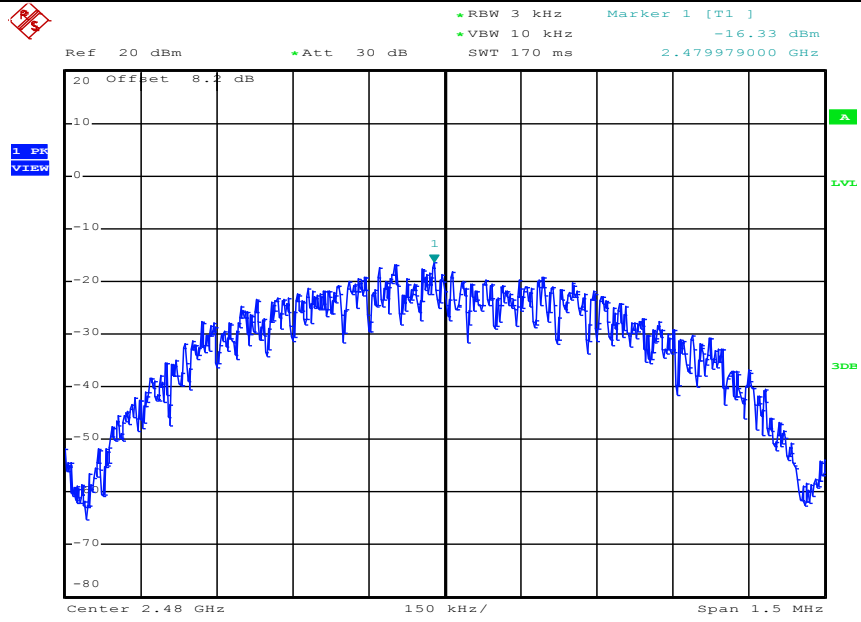
LCH



MCH



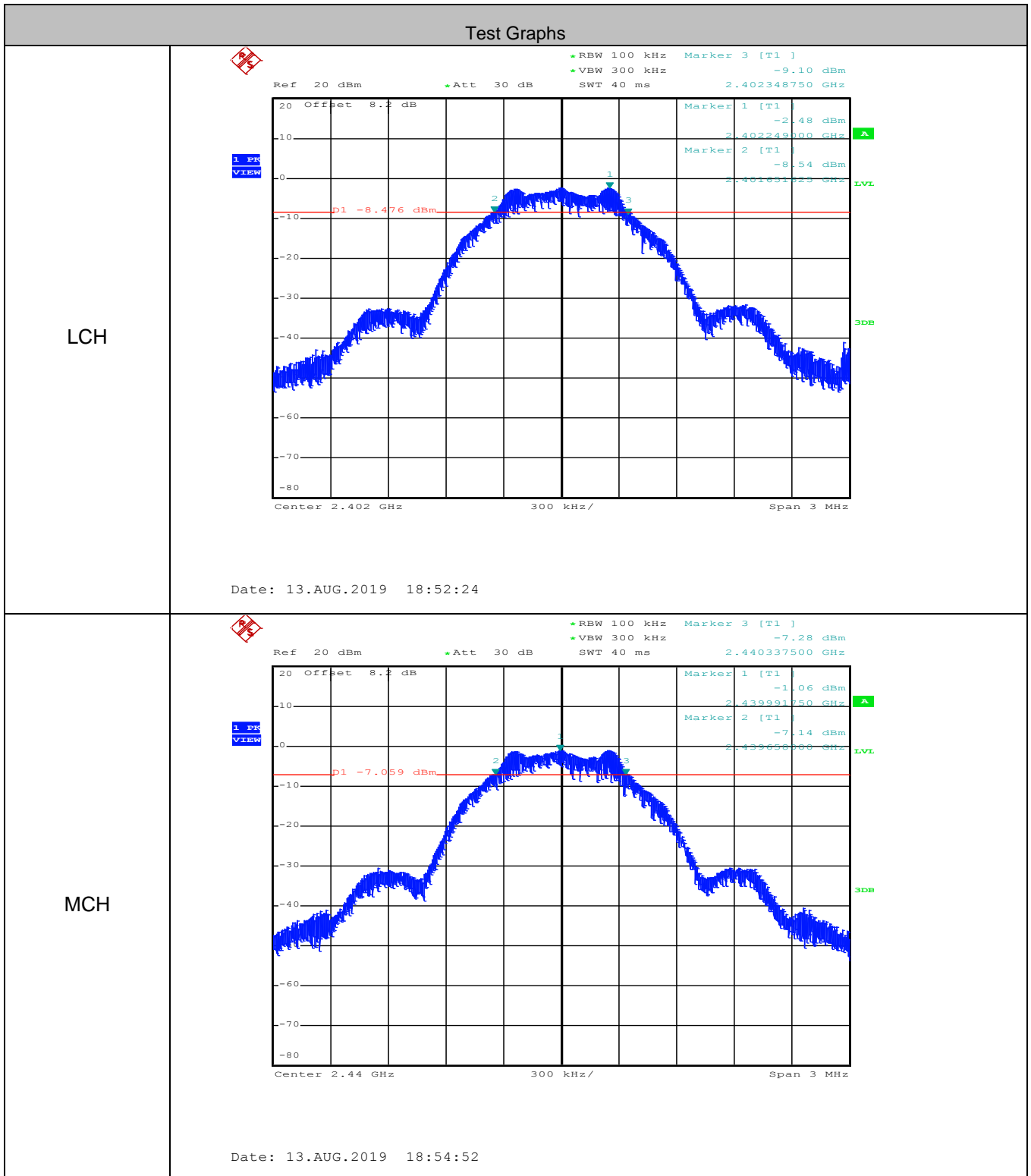
HCH



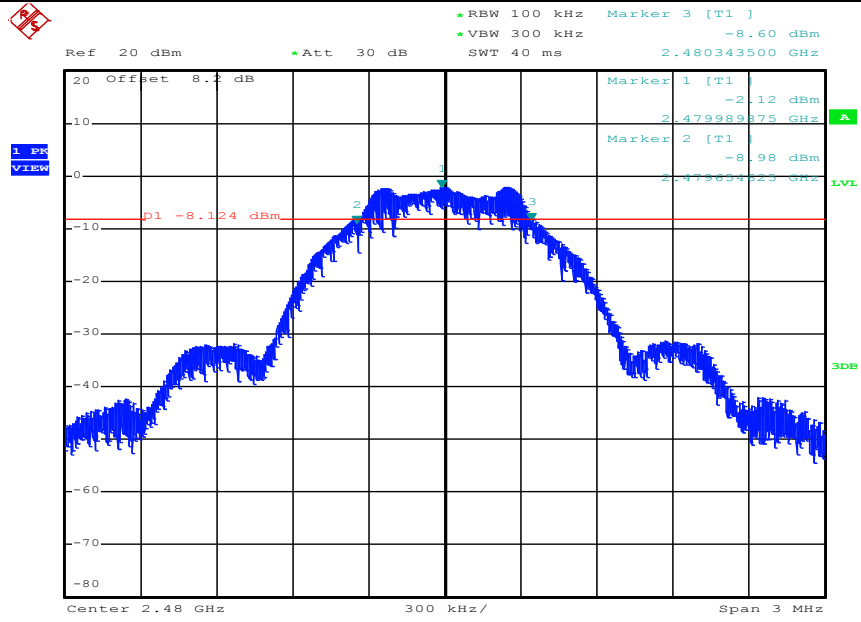
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B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.697	≥0.5	PASS
BT LE	MCH	0.680	≥0.5	PASS
BT LE	HCH	0.689	≥0.5	PASS



HCH



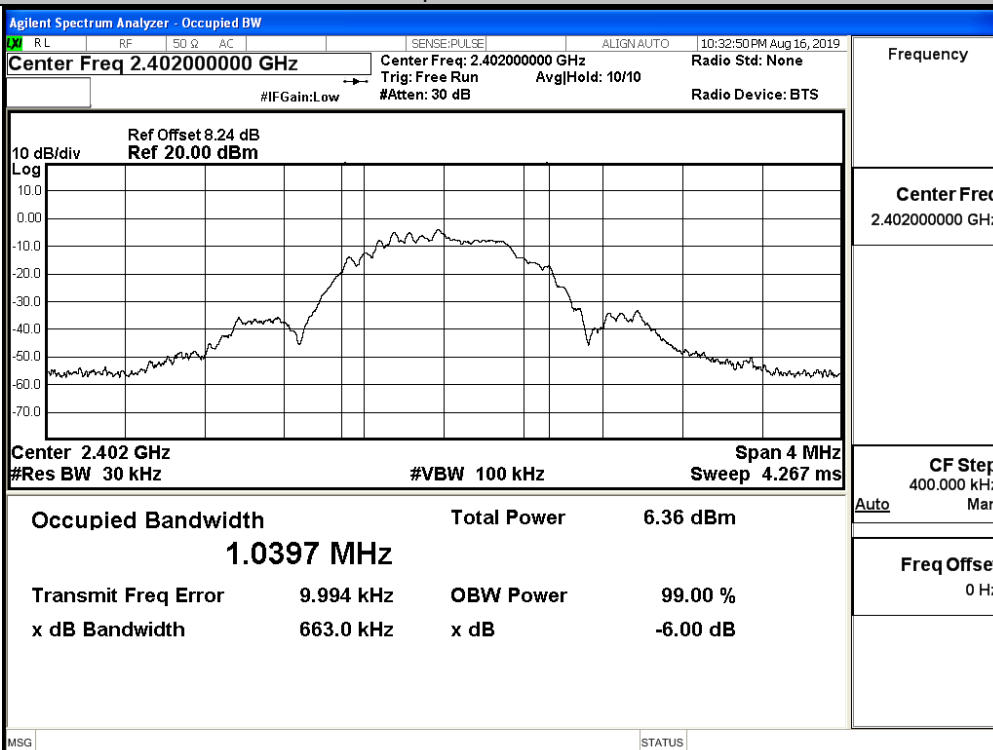
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B.5 Occupied Bandwidth

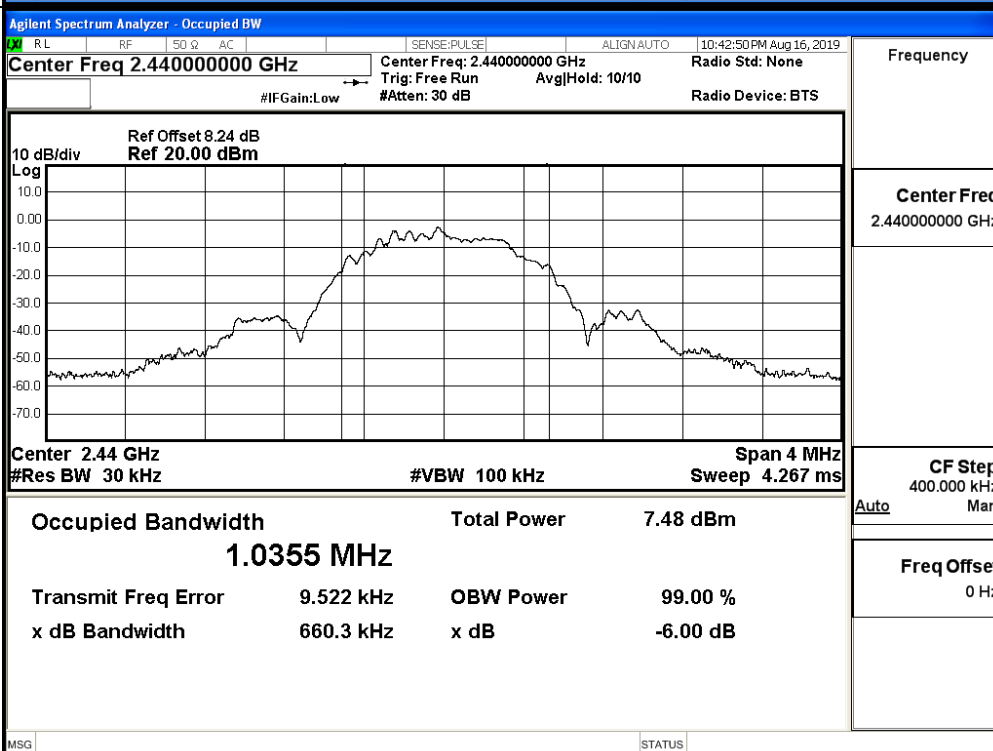
Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0397	≥0.5	PASS
BT LE	MCH	1.0355	≥0.5	PASS
BT LE	HCH	1.0337	≥0.5	PASS

Test Graphs

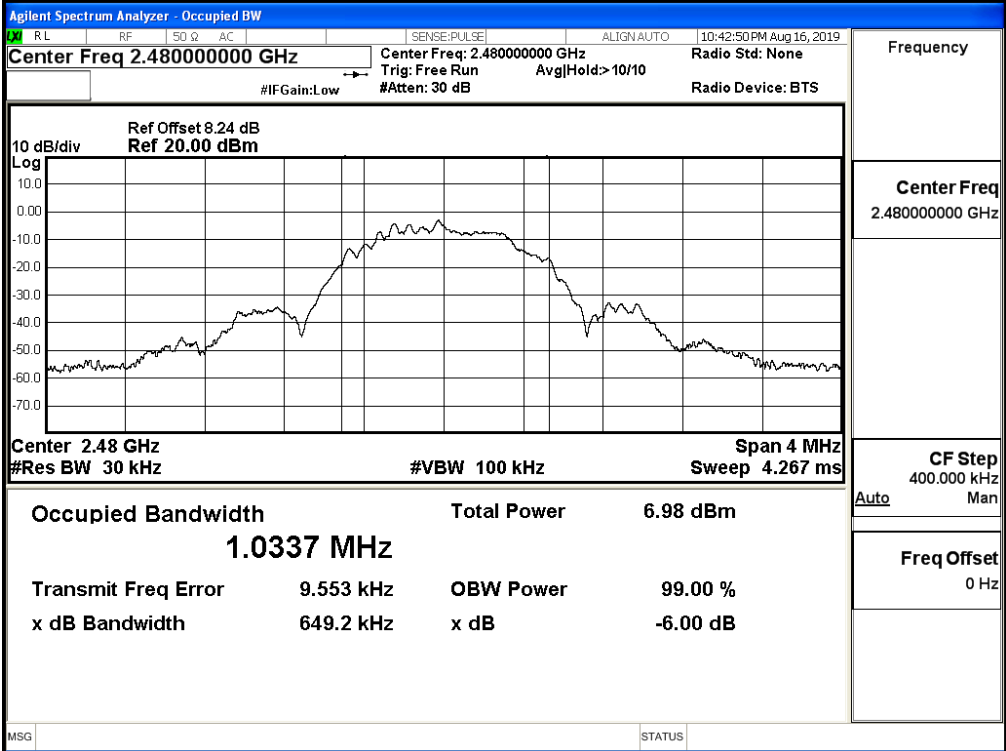
LCH



MCH

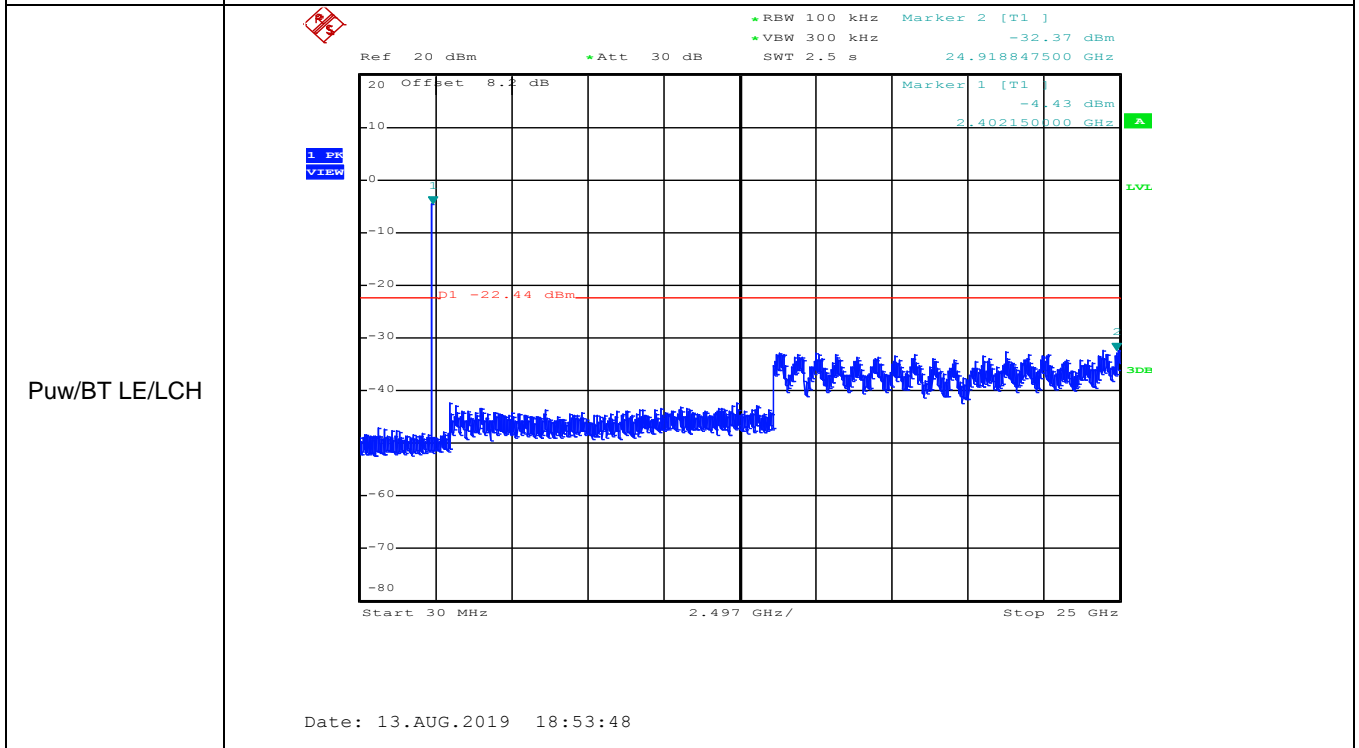
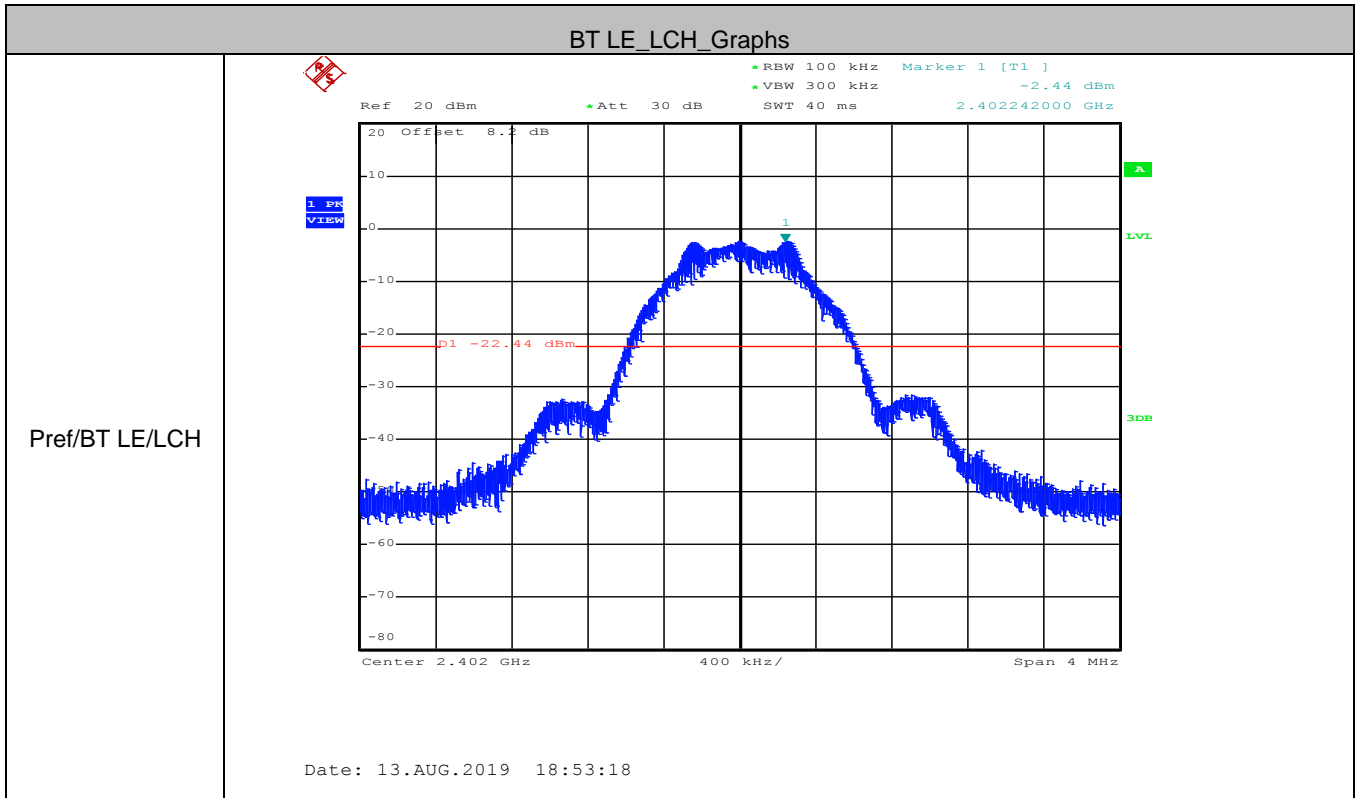


HCH



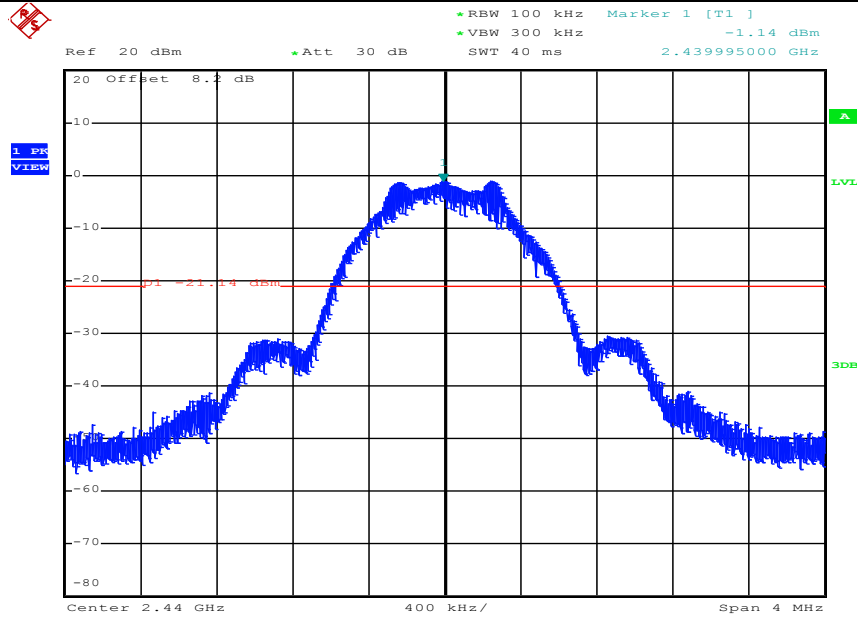
B.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.44	-32.370	-22.440	PASS
BT LE	MCH	-1.14	-32.190	-21.140	PASS
BT LE	HCH	-2.11	-31.550	-22.110	PASS



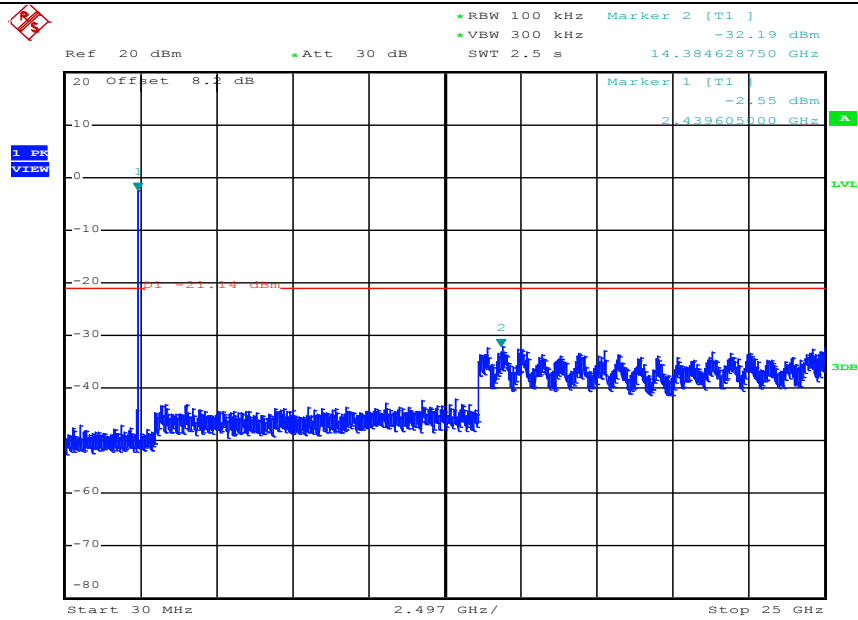
BT LE_MCH_Graphs

Pref/BT LE/MCH



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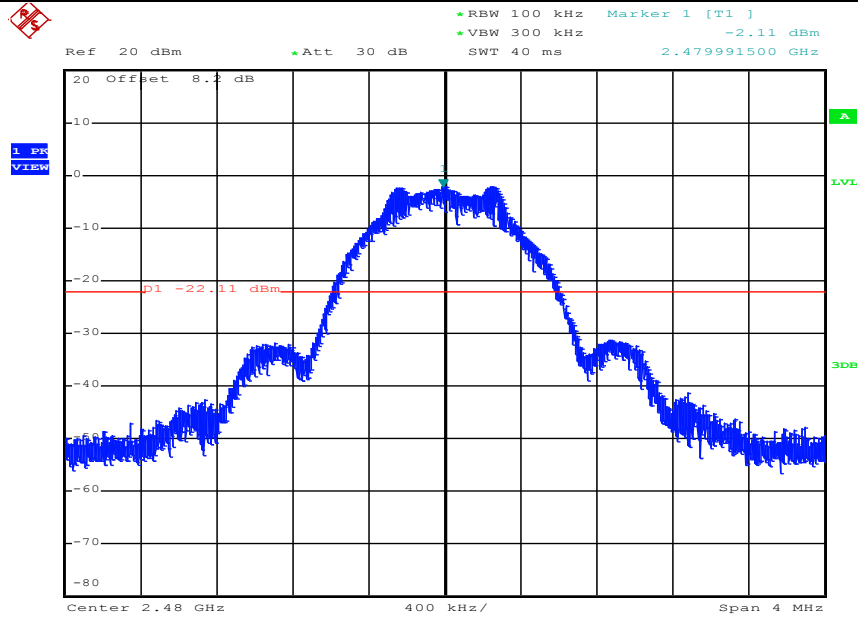
Puw/BT LE/MCH



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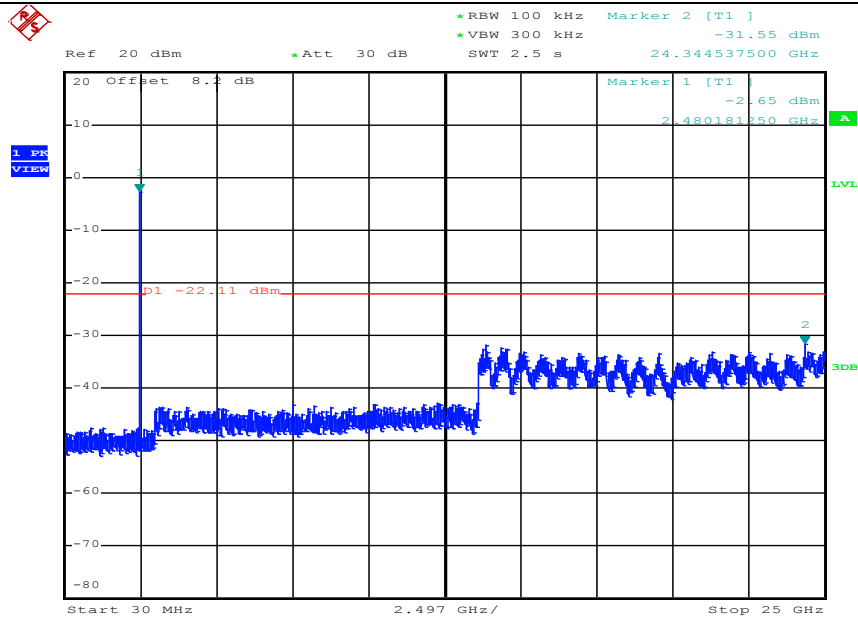
BT LE_HCH_Graphs

Pref/BT LE/HCH



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Puw/BT LE/HCH

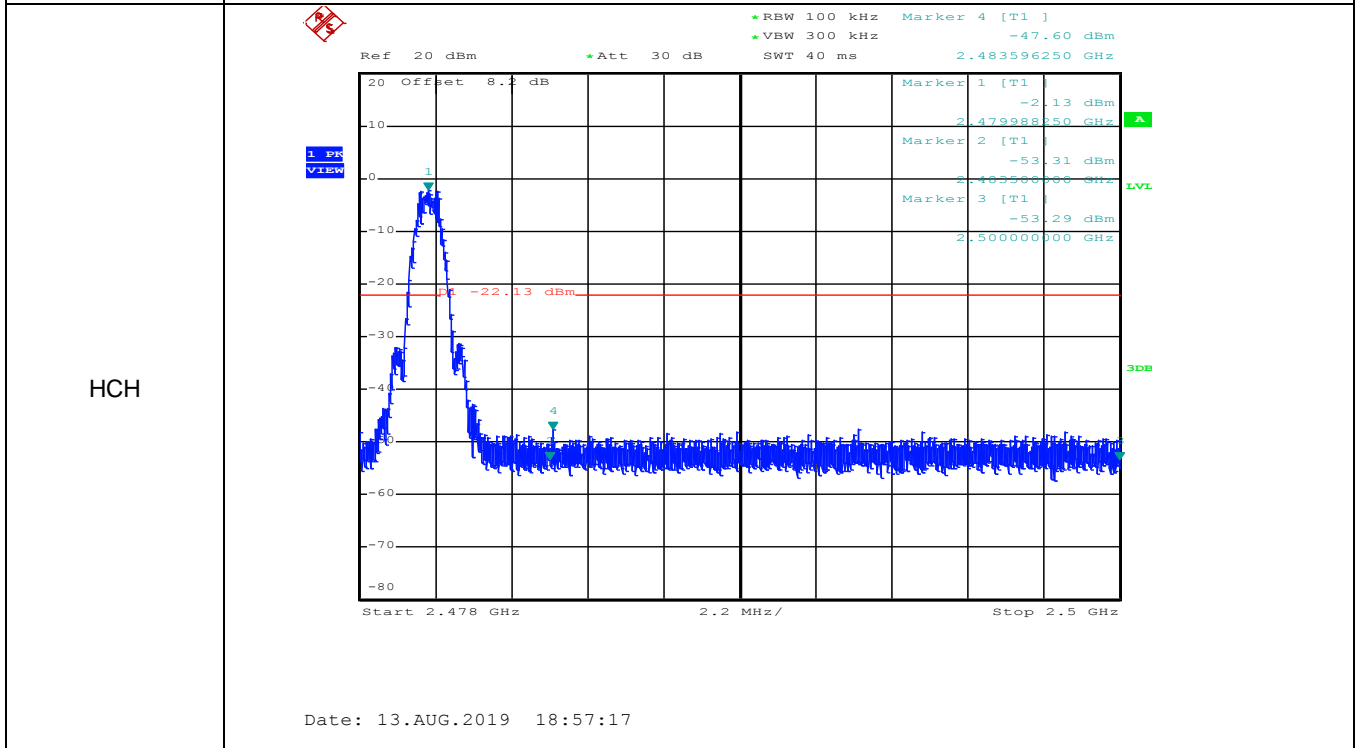
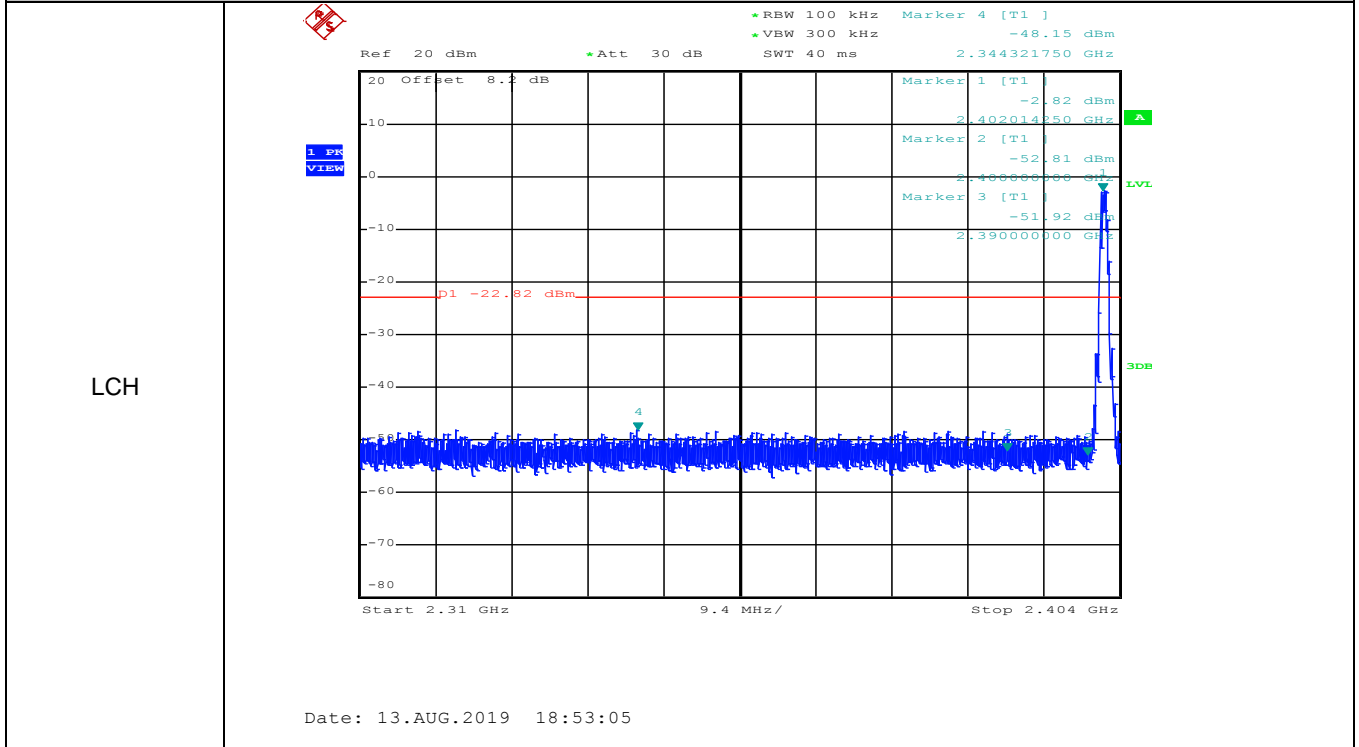


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B.7 Band-edge for RF Conducted Emissions

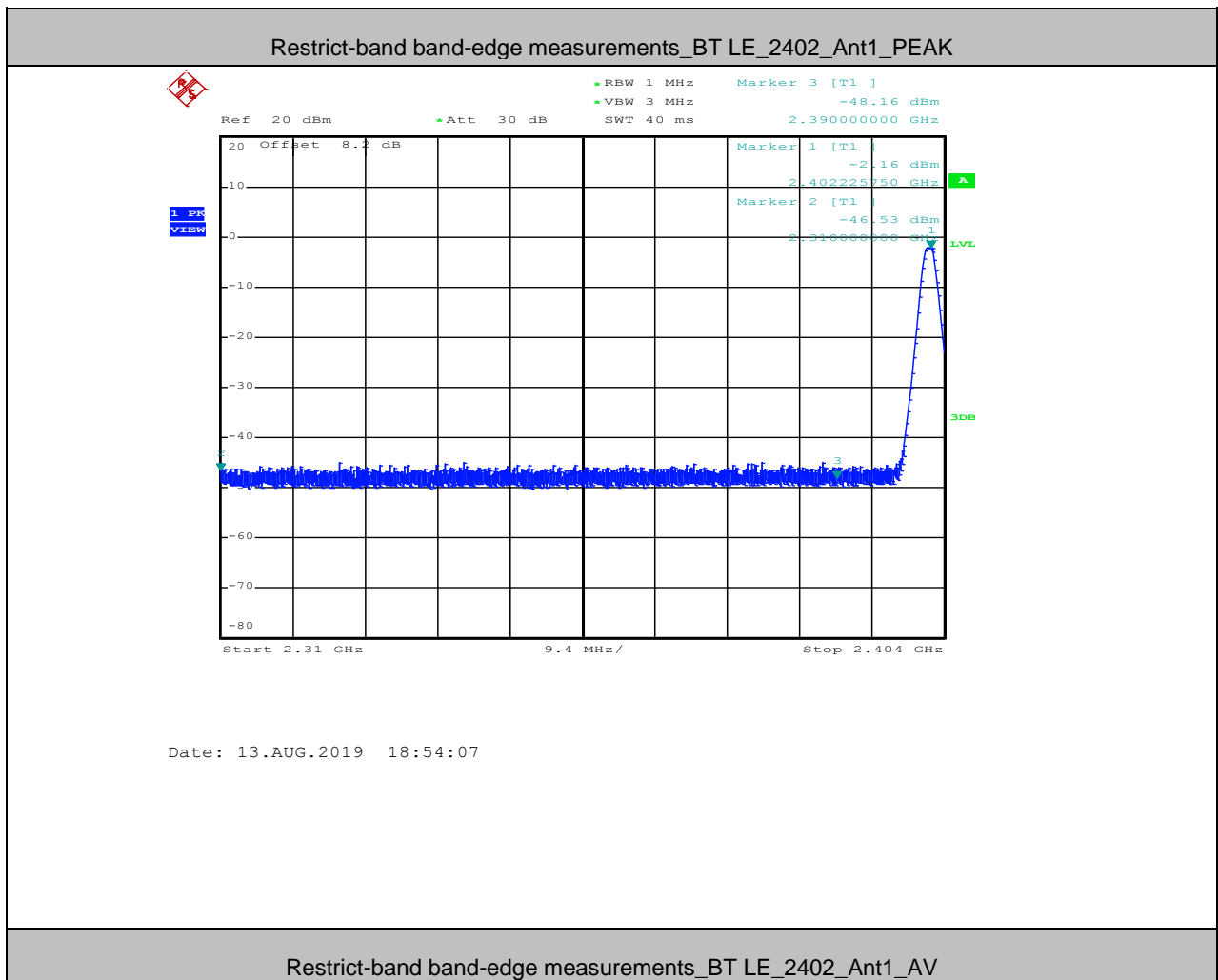
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.820	-48.153	-22.82	PASS
BT LE	HCH	-2.130	-47.604	-22.13	PASS

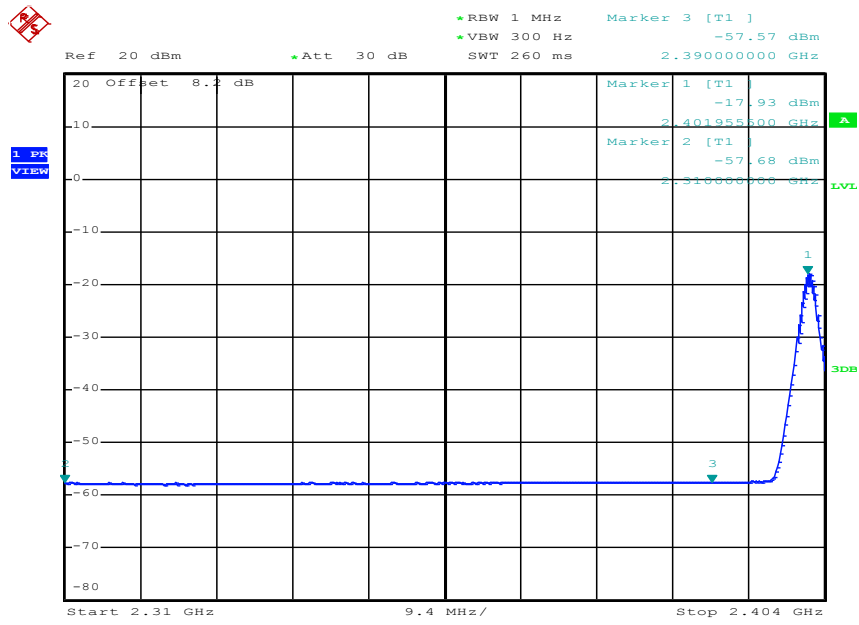
Test Graphs



B.8 Restrict-band band-edge measurements

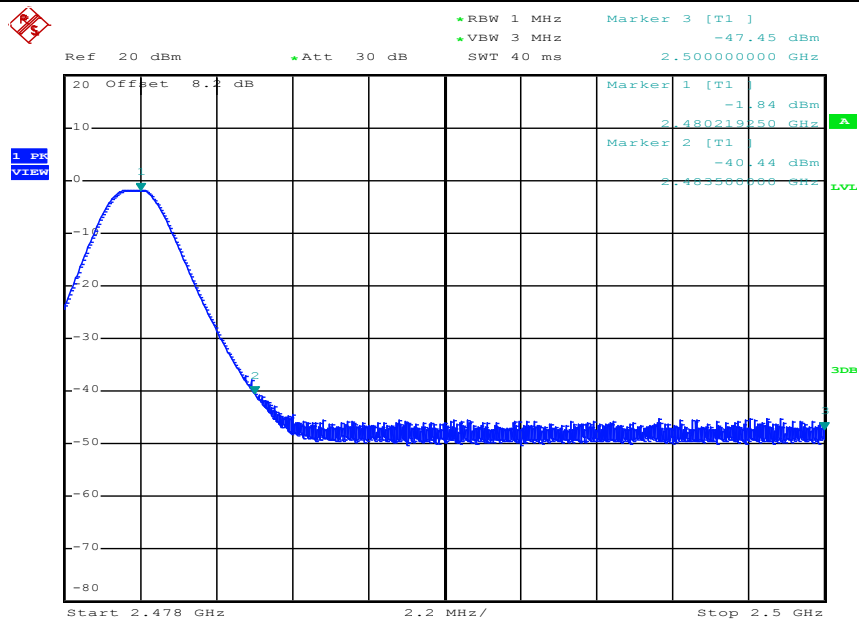
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-46.53	2.0	0	48.73	PEAK	74	PASS
		Ant1	2310.0	-57.68	2.0	0	37.58	AV	54	PASS
		Ant1	2390.0	-48.16	2.0	0	47.10	PEAK	74	PASS
		Ant1	2390.0	-57.57	2.0	0	37.69	AV	54	PASS
	2480	Ant1	2483.5	-40.44	2.0	0	54.82	PEAK	74	PASS
		Ant1	2483.5	-47.52	2.0	0	47.74	AV	54	PASS
		Ant1	2500.0	-47.45	2.0	0	47.81	PEAK	74	PASS
		Ant1	2500.0	-58.11	2.0	0	37.15	AV	54	PASS





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Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



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Restrict-band band-edge measurements_BT LE_2480_Ant1_AV

