

Appendix B

RF Test Data for BT V4.0(BT LE) (Conducted Measurement)

Product Name: Personal Mobile Alarm System

Trade Mark: N/A

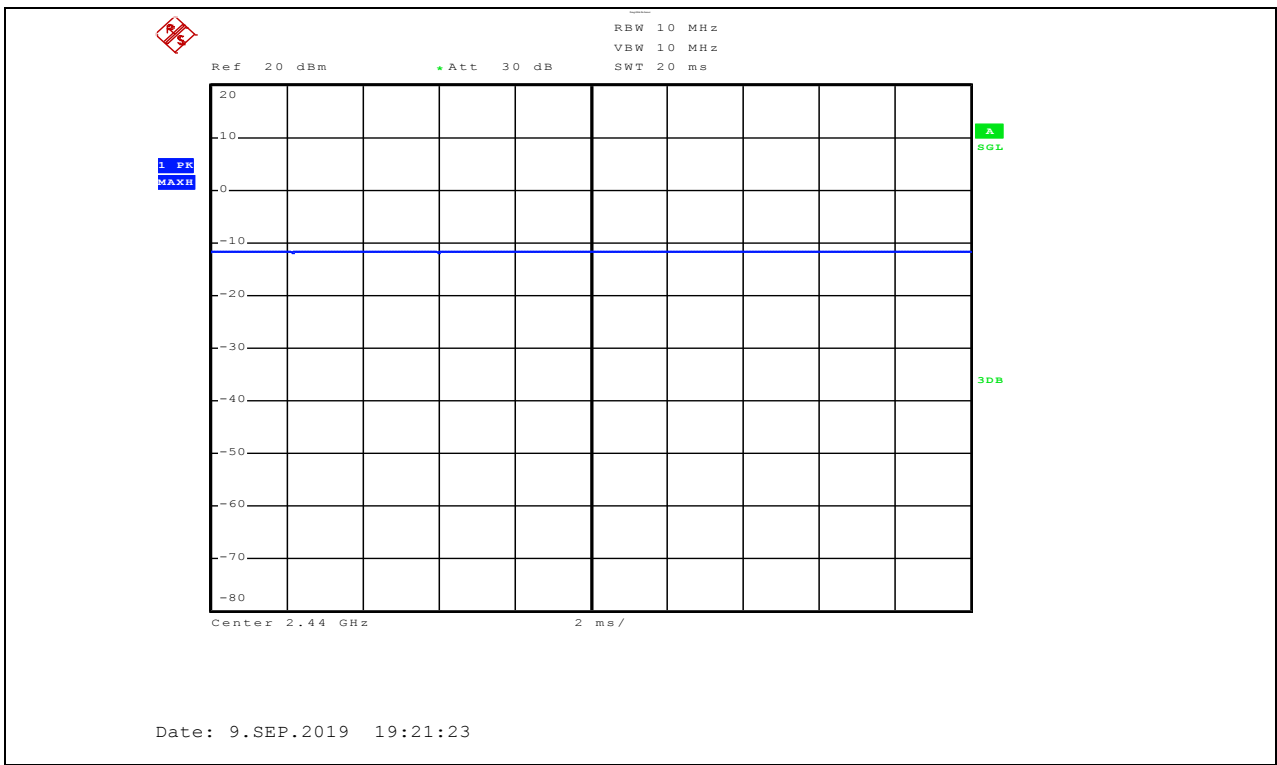
Test Model: EV-07B-LTE

Environmental Conditions

Temperature:	22.8 °C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond.Lu
Supervised by:	Wang.Chuang

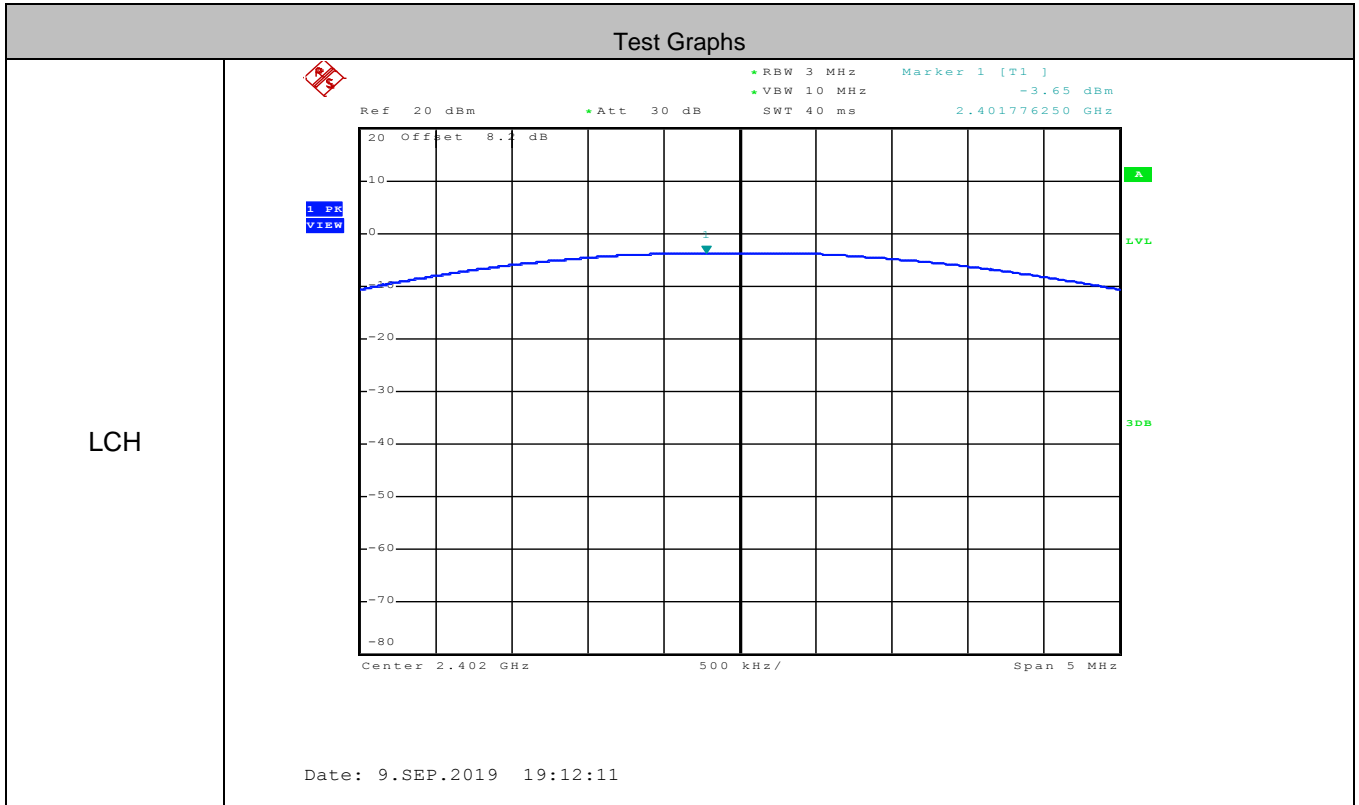
B.1 Duty Cycle

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

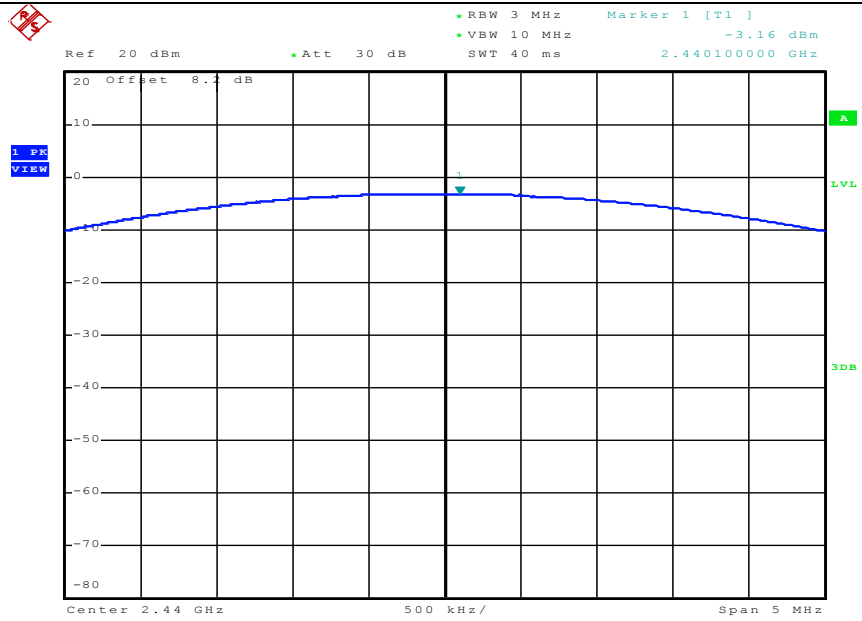


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Conducted AVG Output Power (dBm)	Limit [dBm]	Verdict
BT LE	LCH	-3.65	-3.861	30	PASS
BT LE	MCH	-3.16	-3.492	30	PASS
BT LE	HCH	-2.68	-2.810	30	PASS

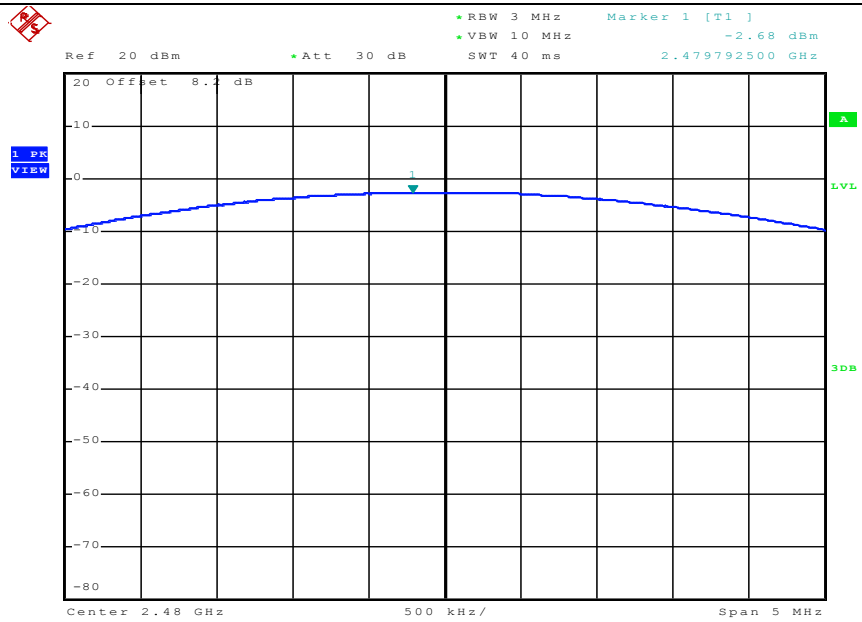


MCH



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HCH

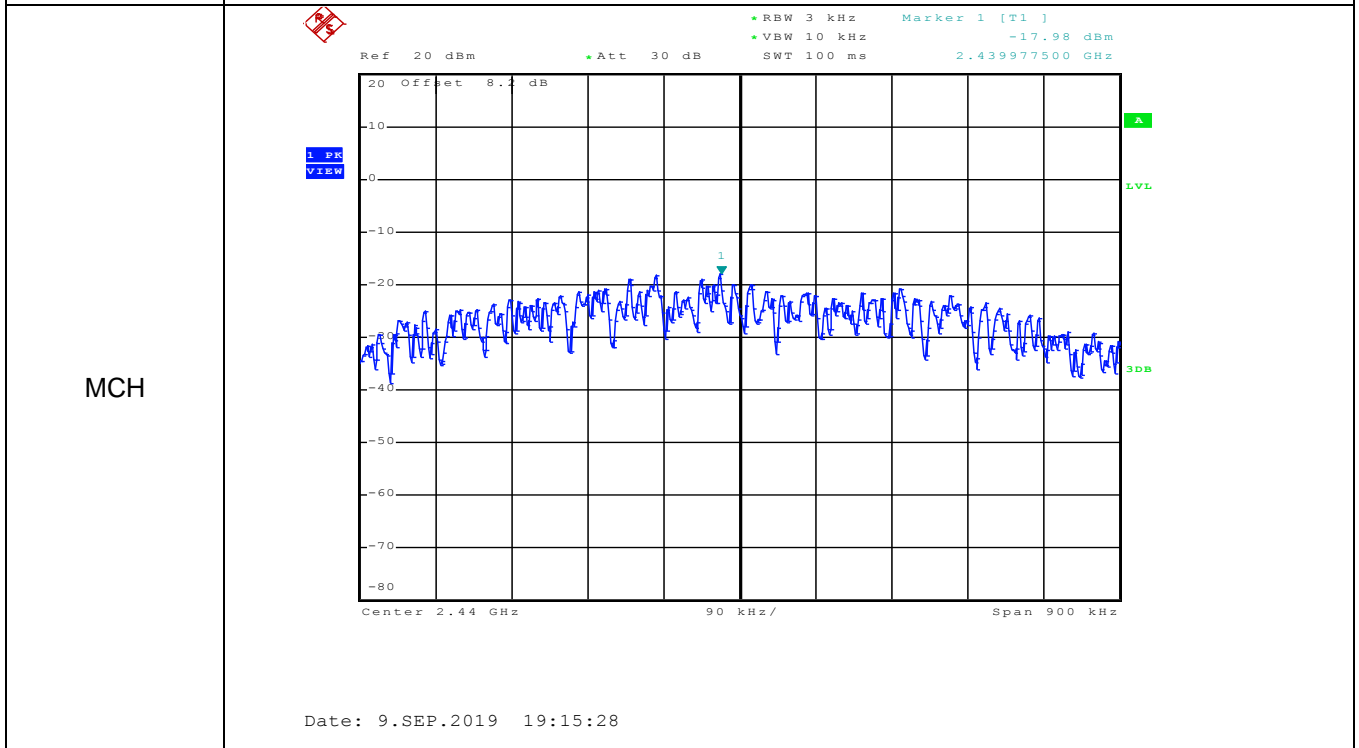
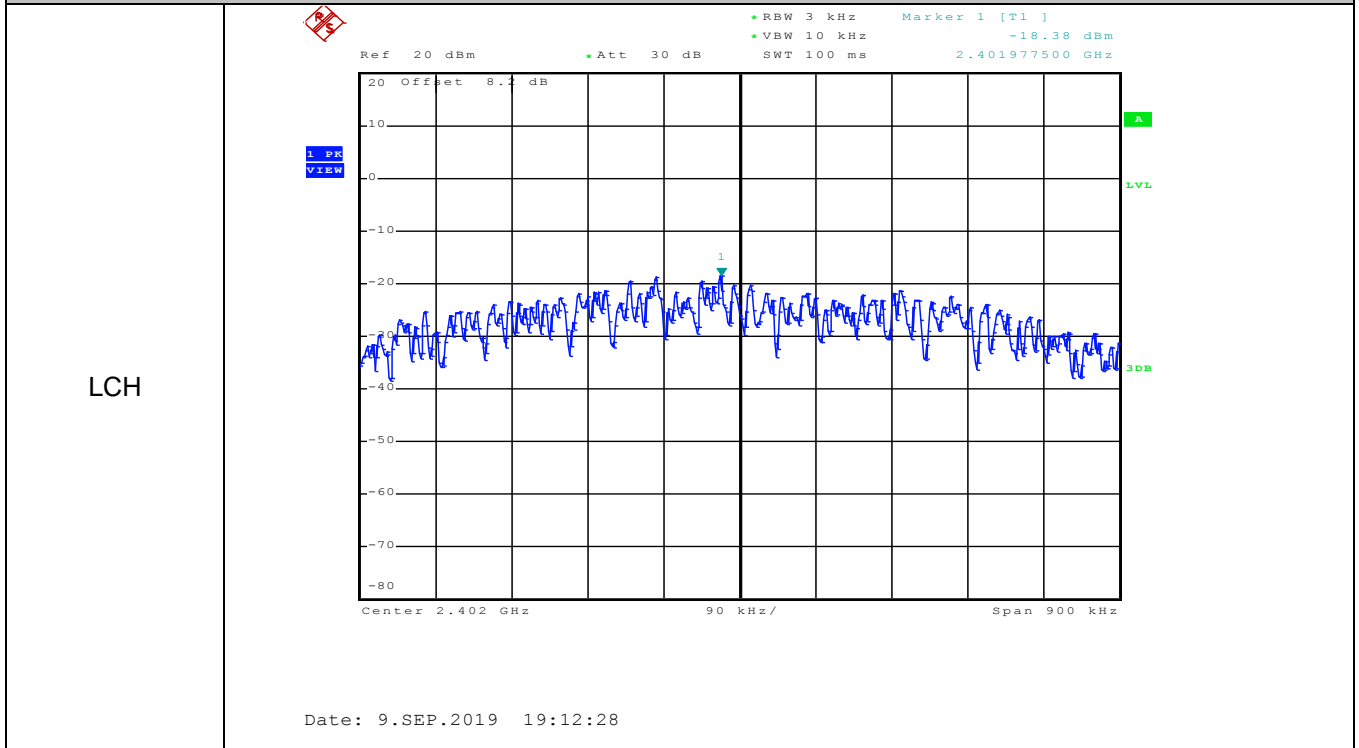


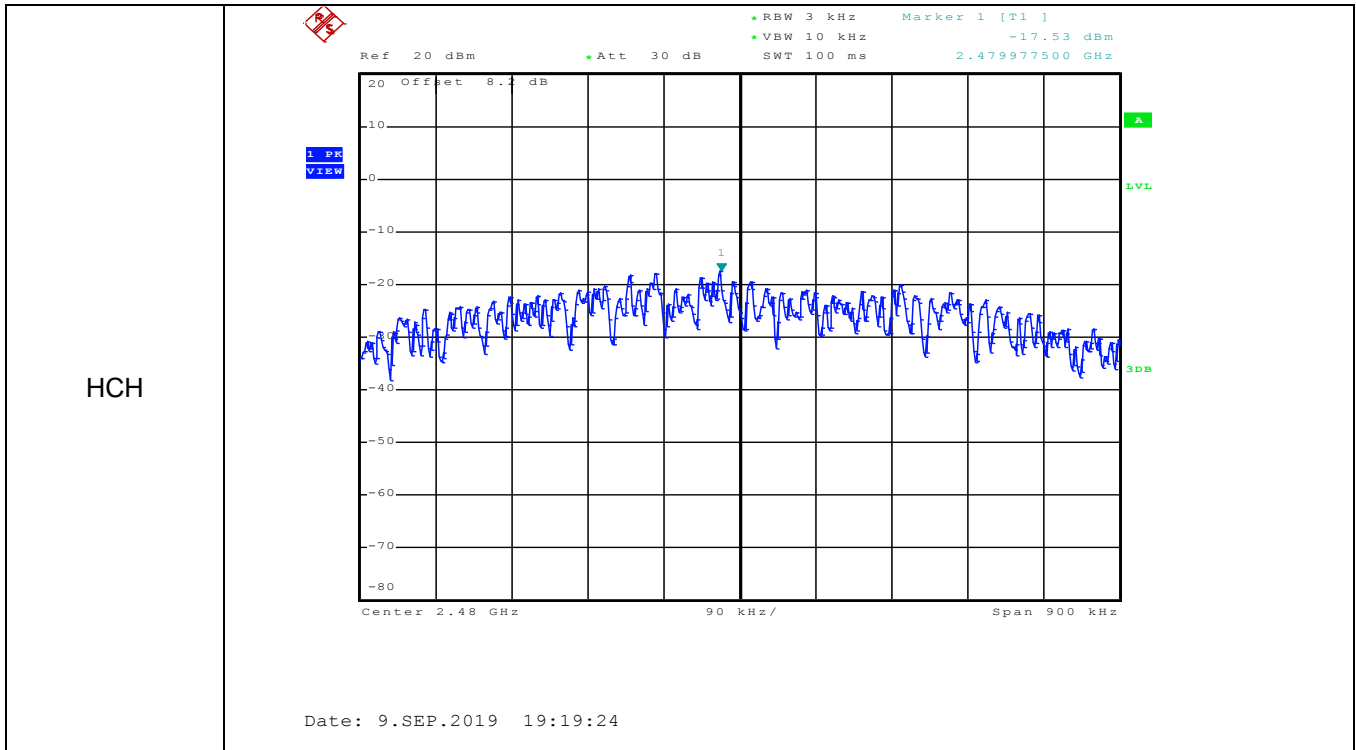
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B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-18.380	8	PASS
BT LE	MCH	-17.980	8	PASS
BT LE	HCH	-17.530	8	PASS

Test Graphs



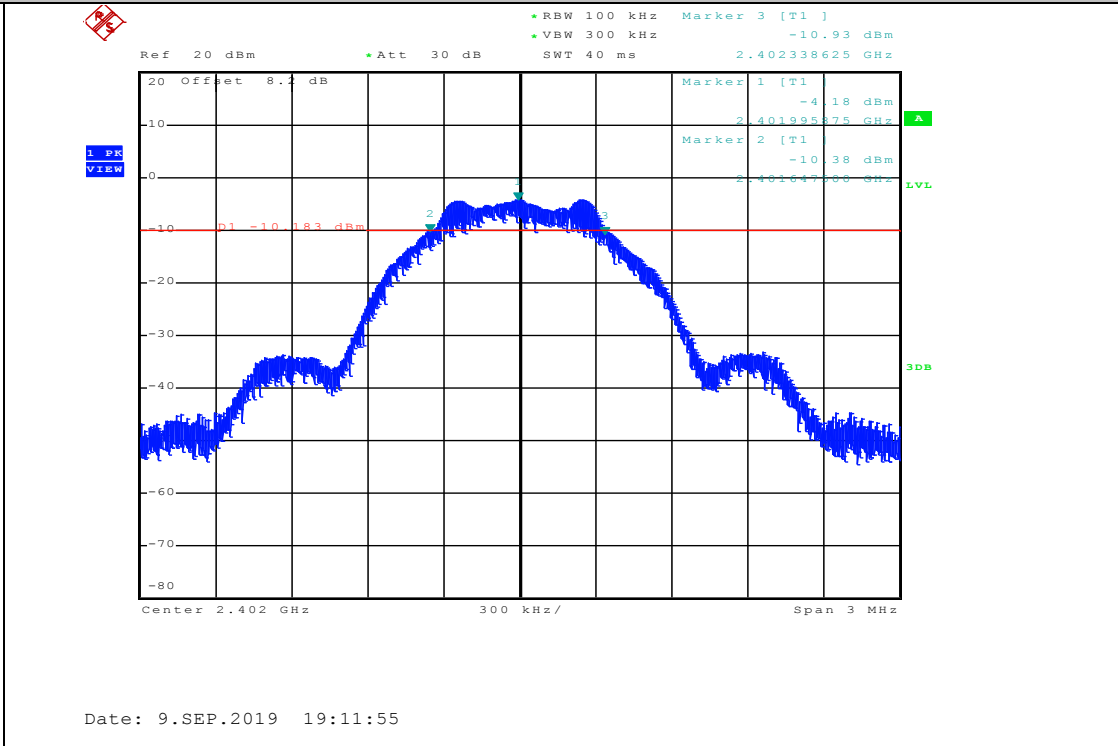


B.4 6dB Bandwidth

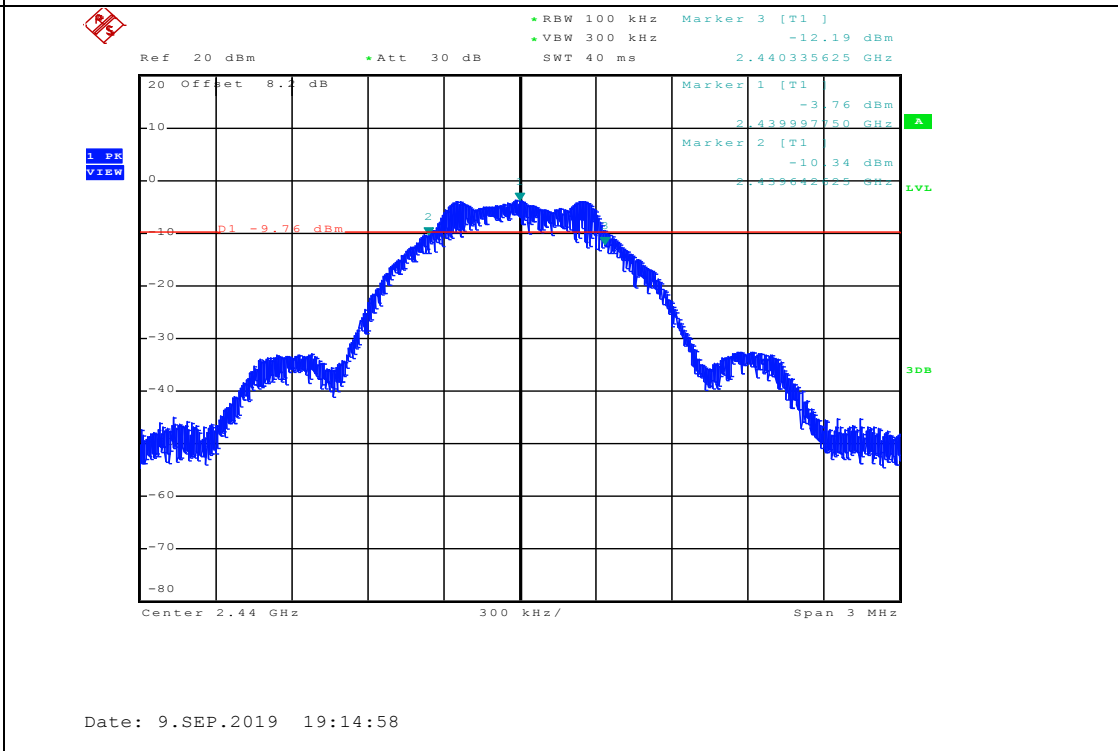
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.691	≥0.5	PASS
BT LE	MCH	0.693	≥0.5	PASS
BT LE	HCH	0.685	≥0.5	PASS

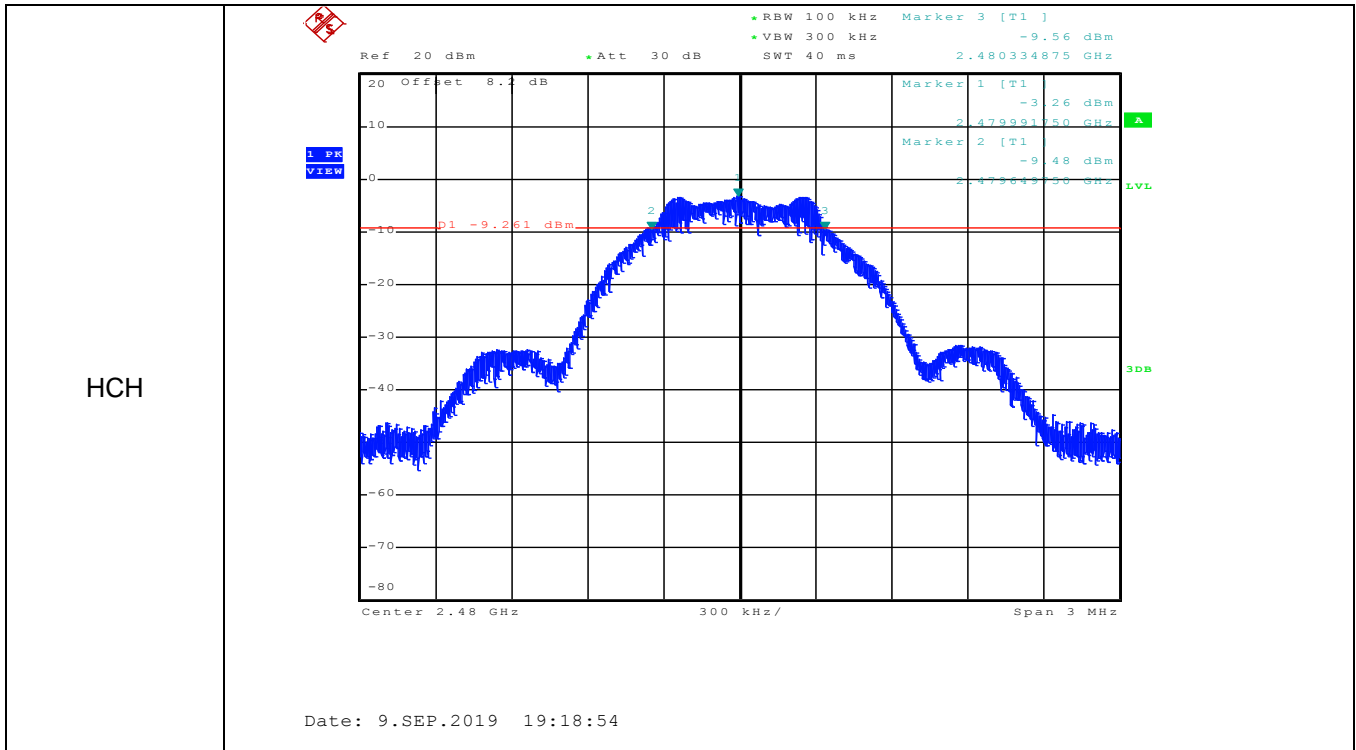
Test Graphs

LCH



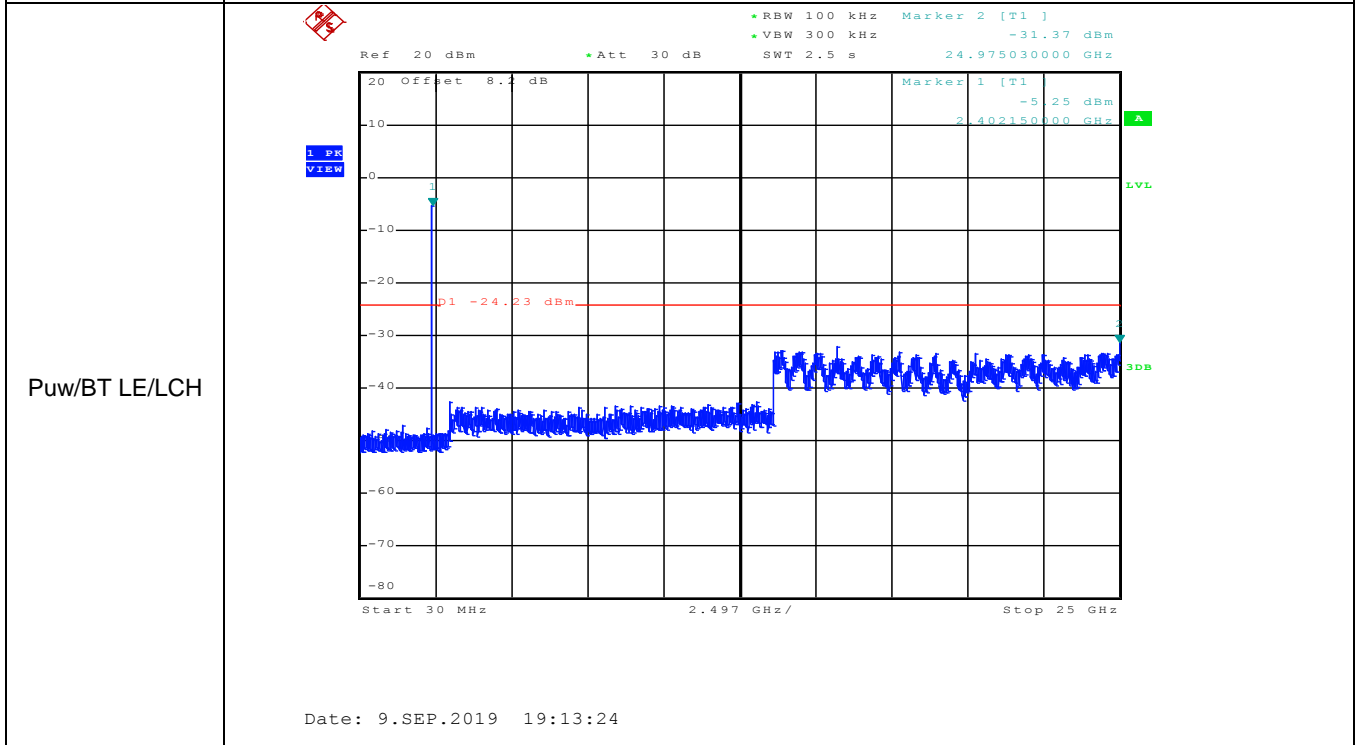
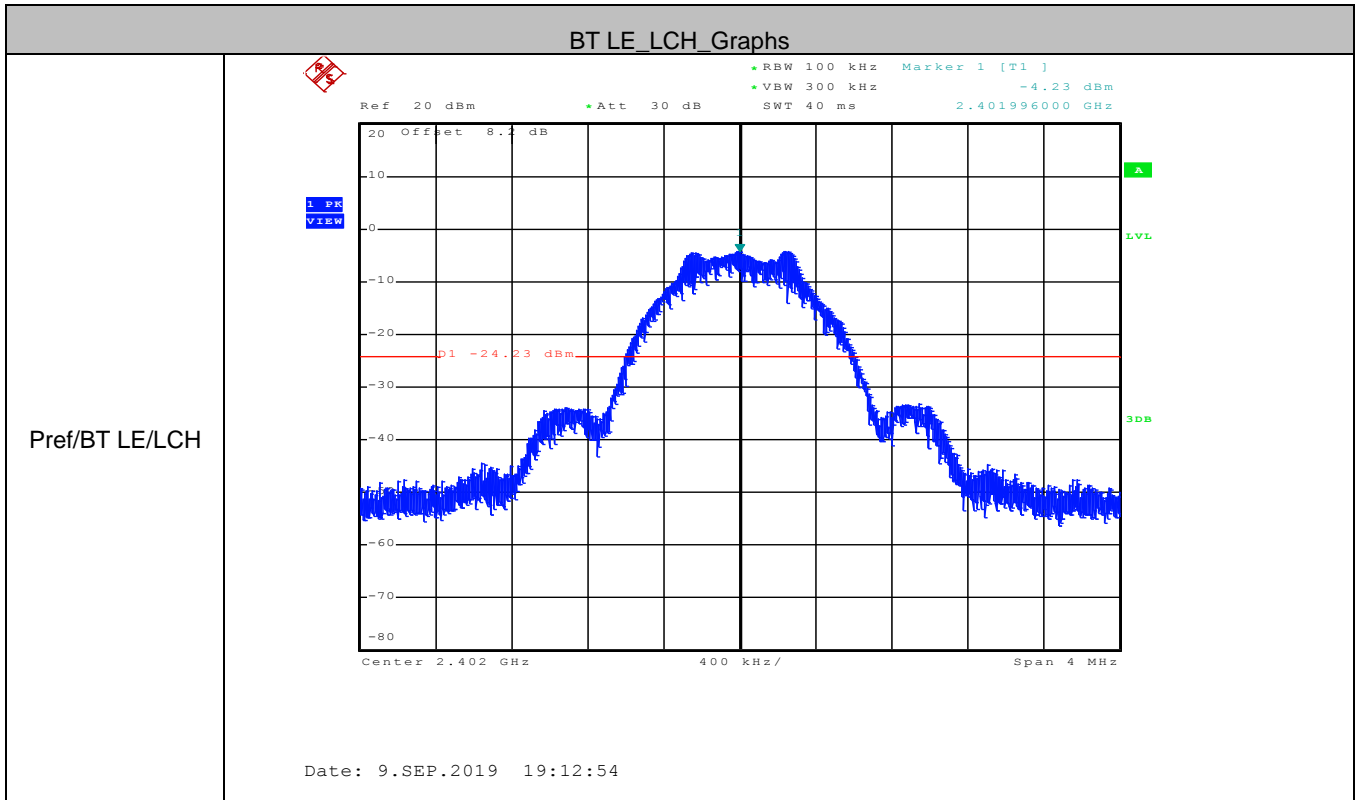
MCH





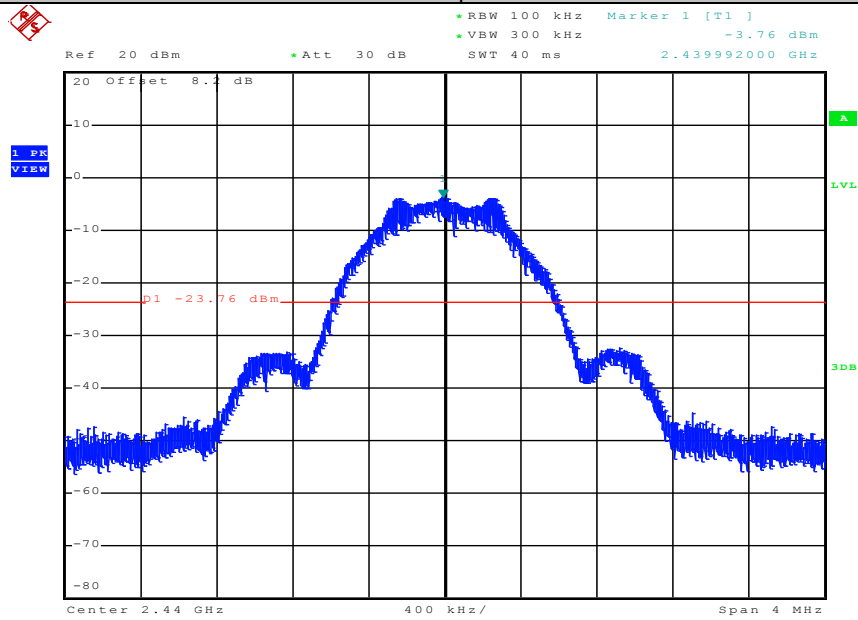
B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.23	-31.370	-24.230	PASS
BT LE	MCH	-3.76	-31.580	-23.760	PASS
BT LE	HCH	-3.27	-31.020	-23.270	PASS



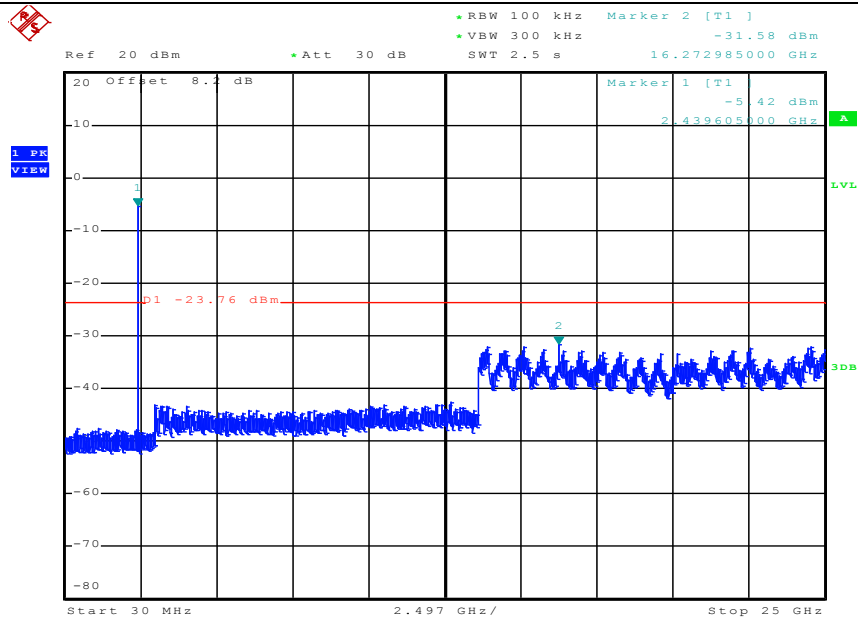
BT LE_MCH_Graphs

Pref/BT LE/MCH



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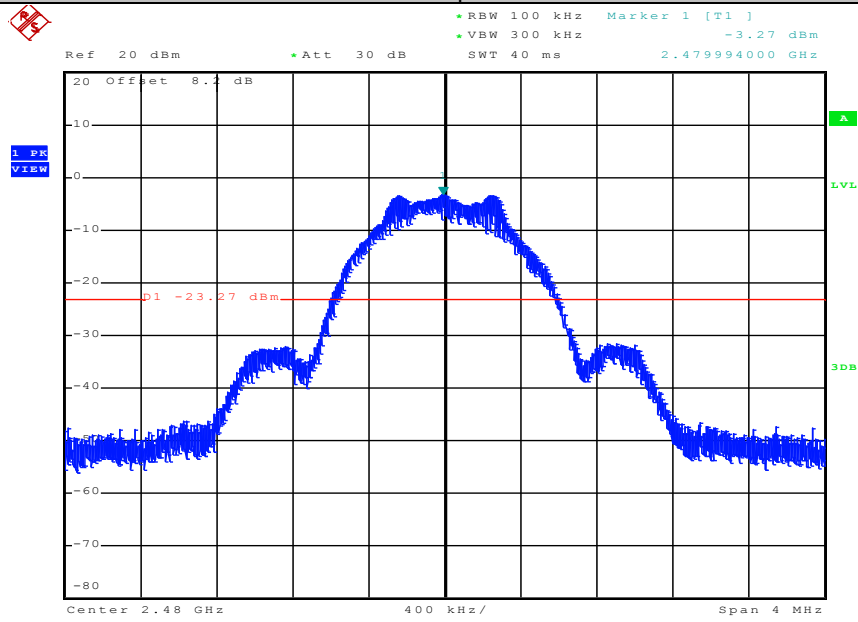
Puw/BT LE/MCH



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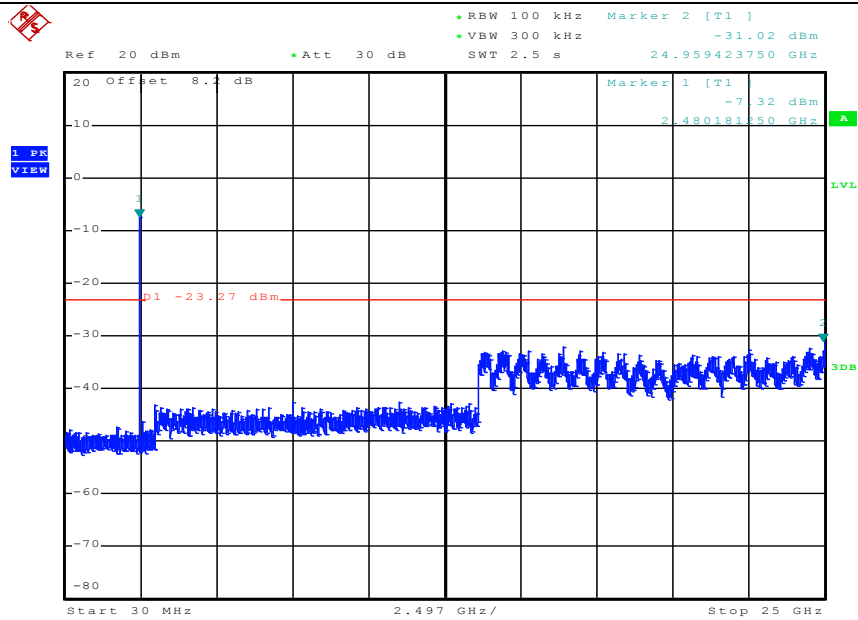
BT LE_HCH_Graphs

Pref/BT LE/HCH



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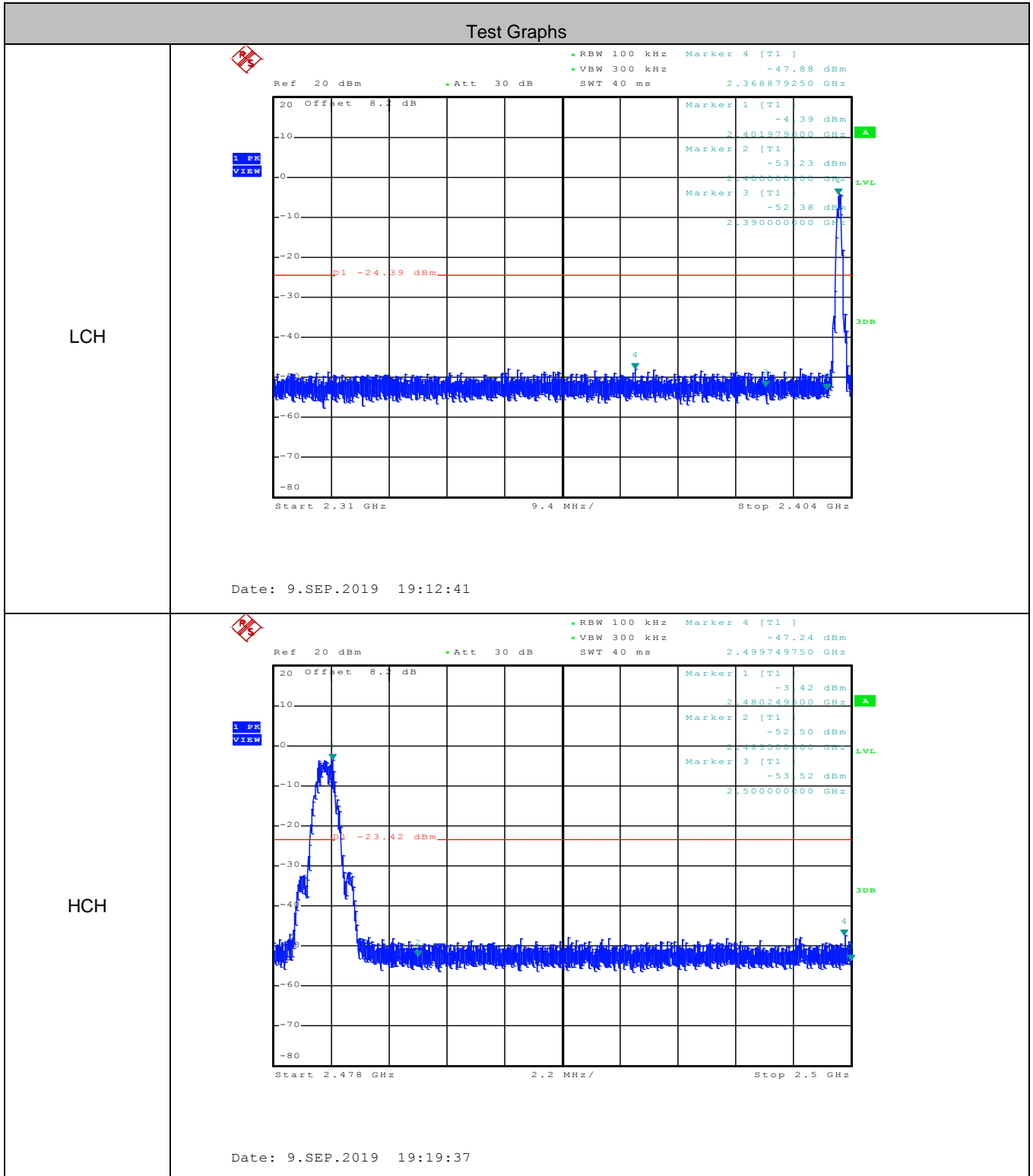
Puw/BT LE/HCH



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B.6 Band-edge for RF Conducted Emissions

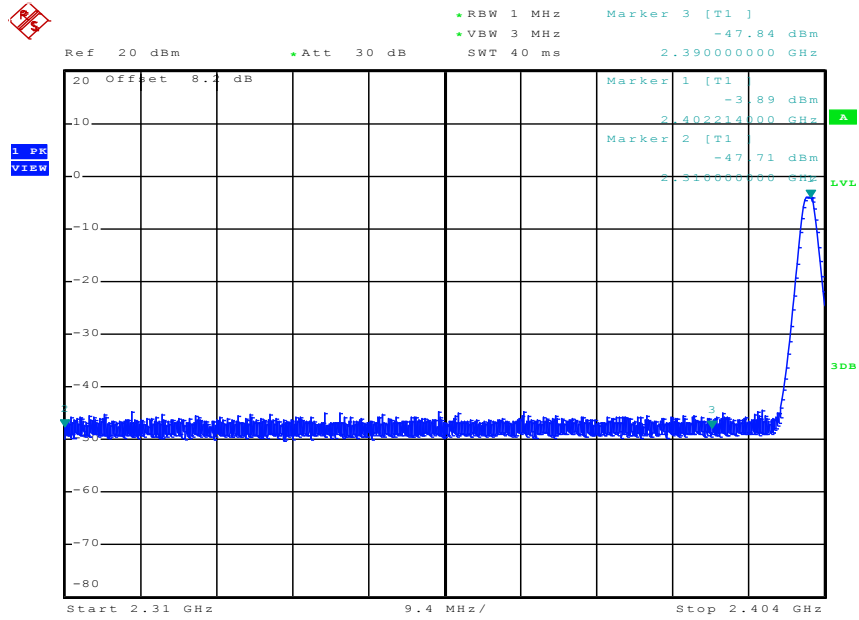
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.390	-47.883	-24.39	PASS
BT LE	HCH	-3.420	-47.244	-23.42	PASS



B.7 Restrict-band band-edge measurements

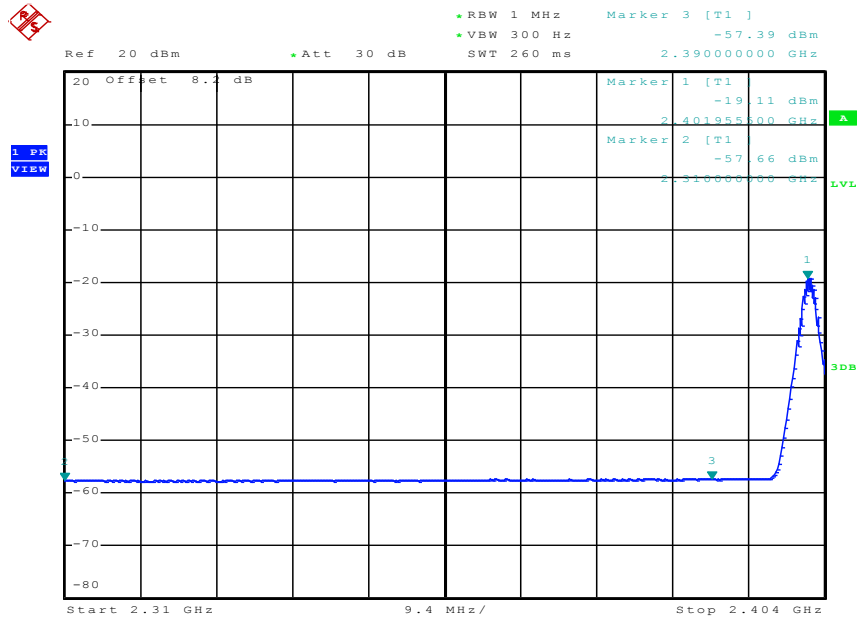
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-47.71	2.0	0	47.55	PEAK	74	PASS
		Ant1	2310.0	-57.66	2.0	0	37.60	AV	54	PASS
		Ant1	2390.0	-47.84	2.0	0	47.42	PEAK	74	PASS
		Ant1	2390.0	-57.39	2.0	0	37.87	AV	54	PASS
	2480	Ant1	2483.5	-41.22	2.0	0	54.04	PEAK	74	PASS
		Ant1	2483.5	-49.47	2.0	0	45.79	AV	54	PASS
		Ant1	2500.0	-48.61	2.0	0	46.65	PEAK	74	PASS
		Ant1	2500.0	-58.02	2.0	0	37.24	AV	54	PASS

Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



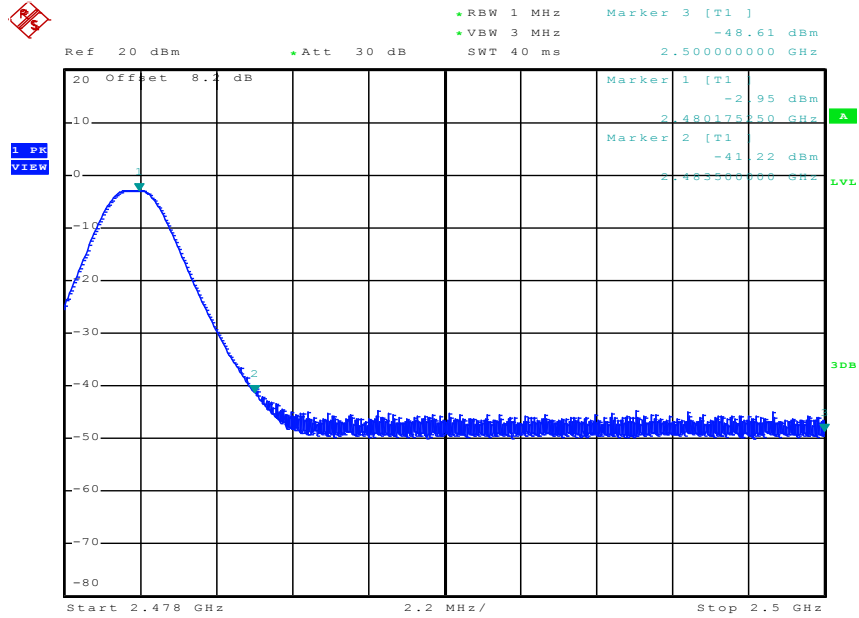
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Restrict-band band-edge measurements_BT LE_2402_Ant1_AV



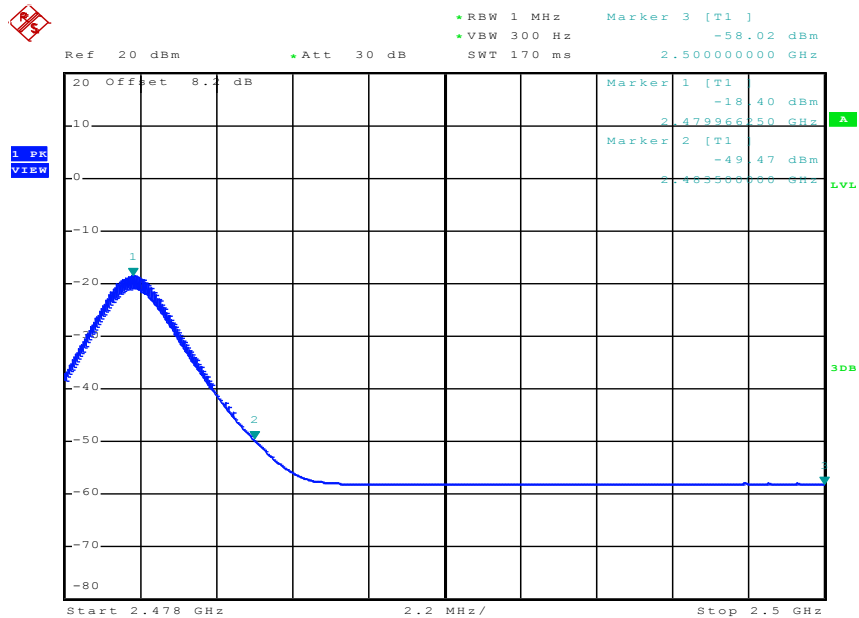
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Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



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Restrict-band band-edge measurements_BT LE_2480_Ant1_AV



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