

Appendix B

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

Product Name: HyperGear Active True Wireless Earbuds

Trade Mark: N/A

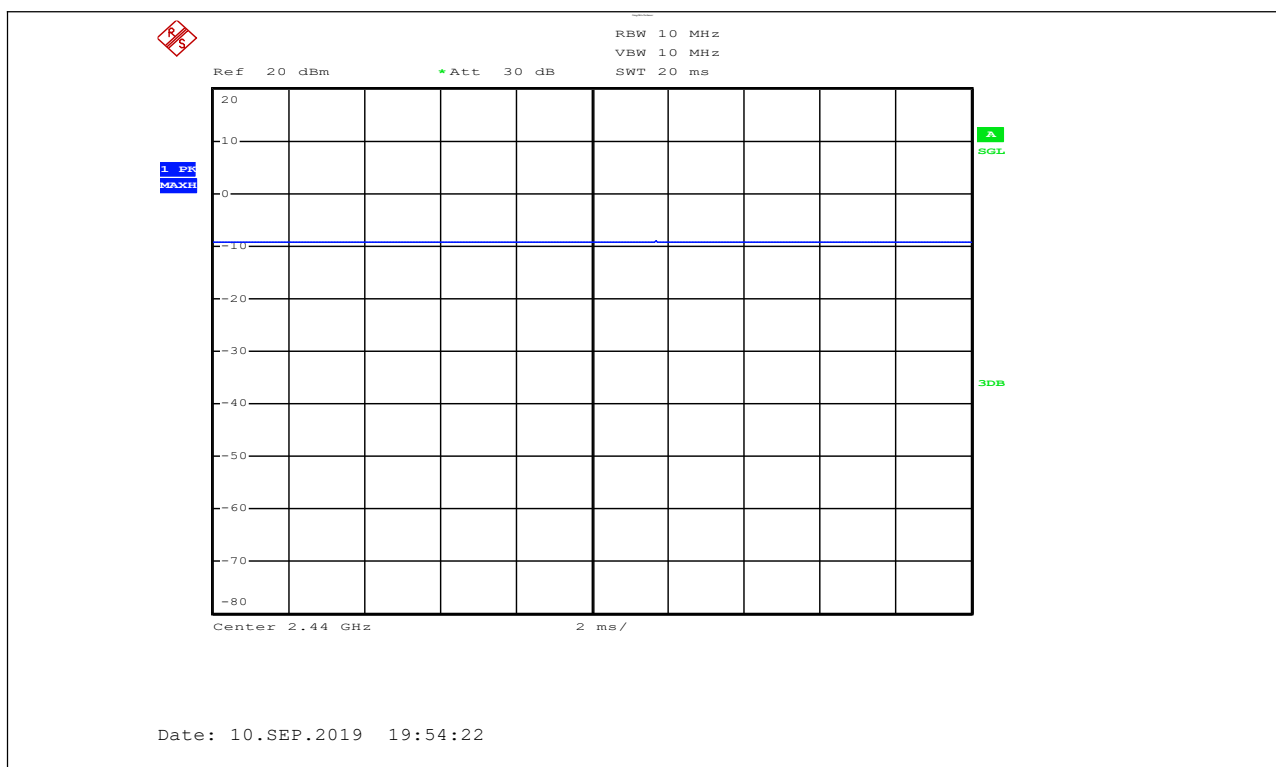
Test Model: 14316

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Scout Wu
Supervised by:	Wang.Chuang

B.1 Duty Cycle

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

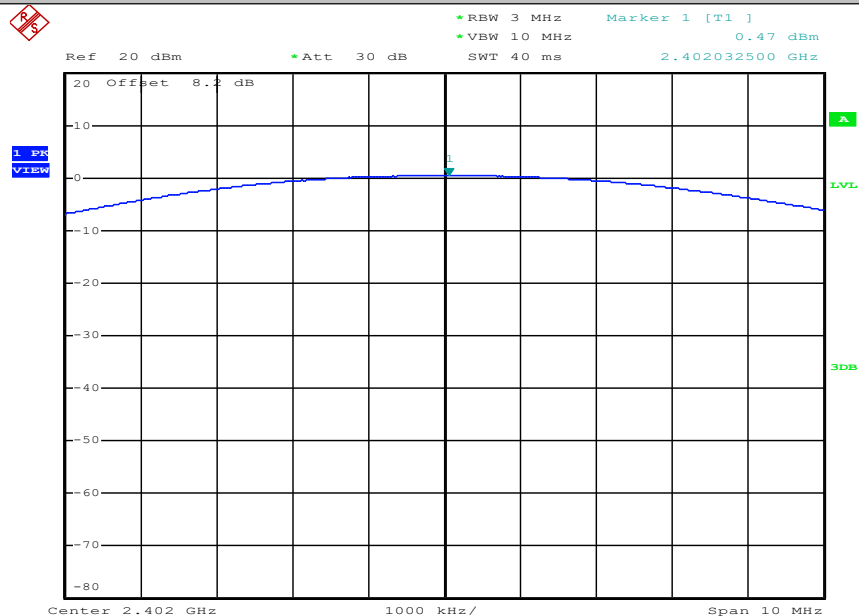


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.47	30	PASS
BT LE	MCH	-0.69	30	PASS
BT LE	HCH	-1.73	30	PASS

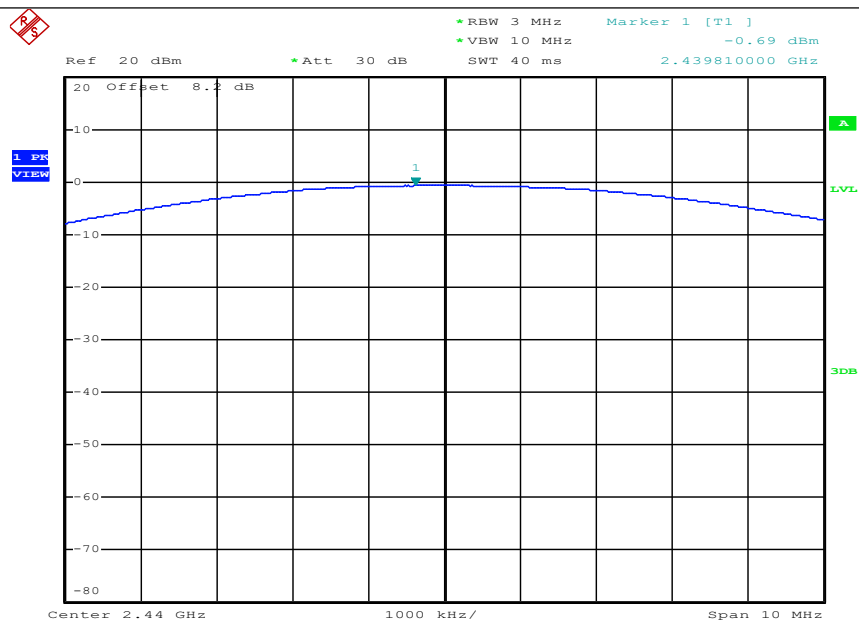
Test Graphs

LCH



Date: 10.SEP.2019 19:47:18

MCH

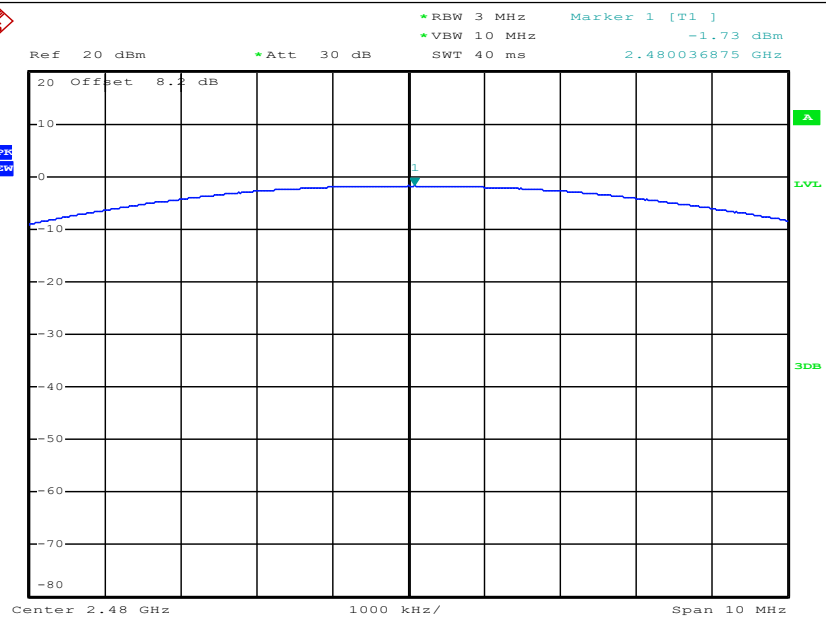


Date: 10.SEP.2019 19:50:20

HCH



1 PR
VIEW



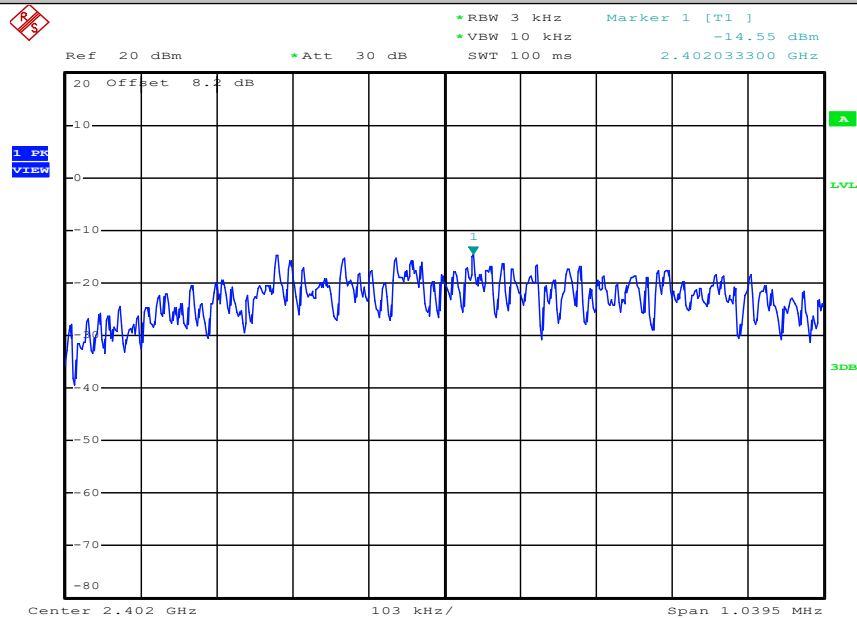
Date: 10.SEP.2019 19:52:05

B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.550	8	PASS
BT LE	MCH	-15.680	8	PASS
BT LE	HCH	-16.740	8	PASS

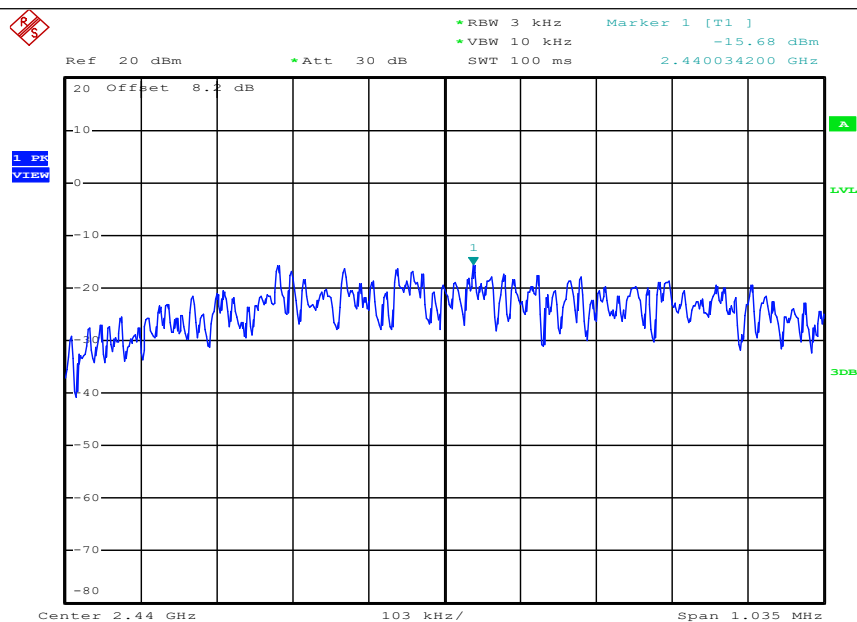
Test Graphs

LCH



Date: 10.SEP.2019 19:47:34

MCH

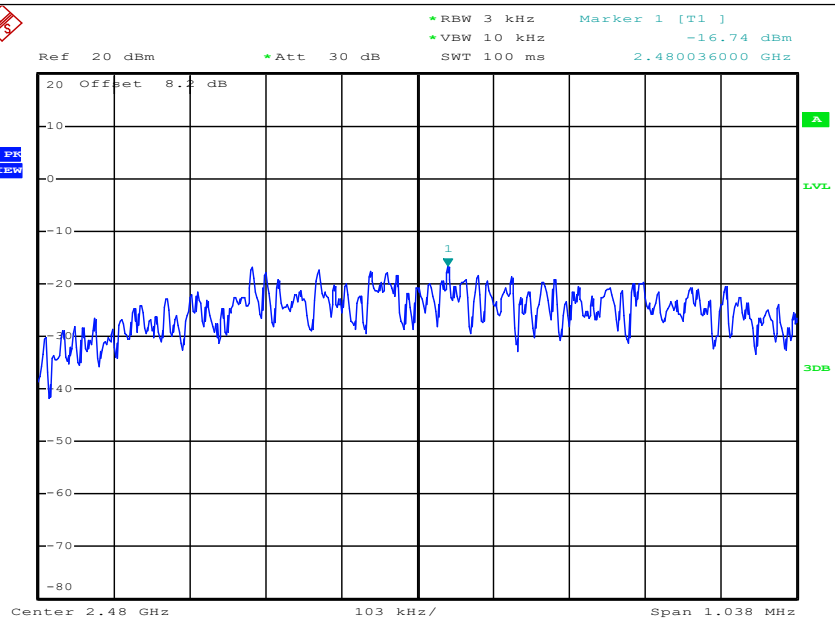


Date: 10.SEP.2019 19:50:37

HCH



1 PR
VIEW



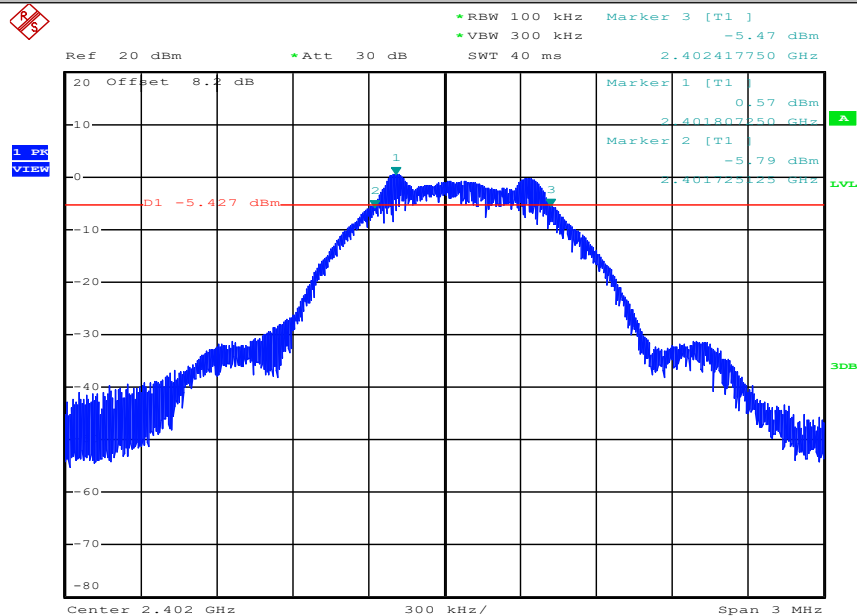
Date: 10.SEP.2019 19:52:21

B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.693	≥ 0.5	PASS
BT LE	MCH	0.690	≥ 0.5	PASS
BT LE	HCH	0.692	≥ 0.5	PASS

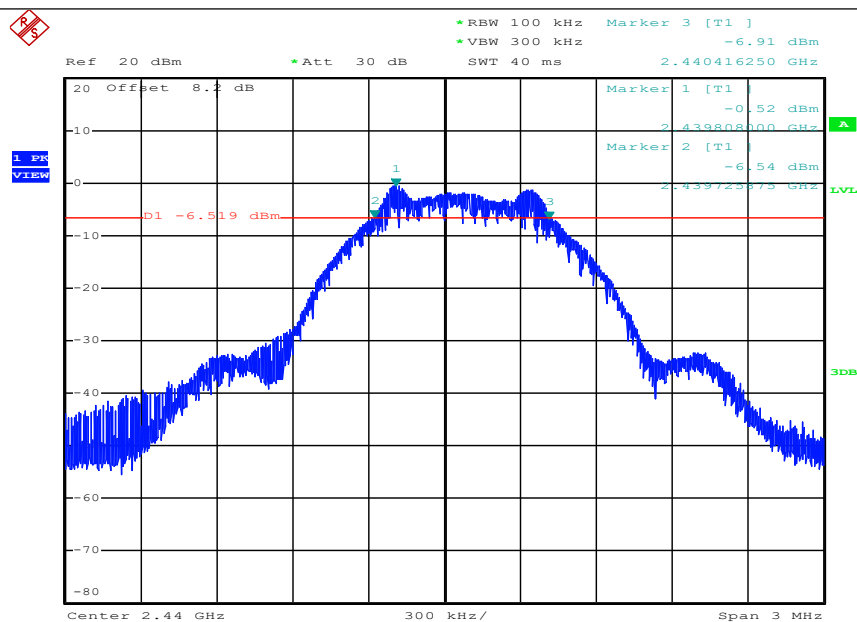
Test Graphs

LCH



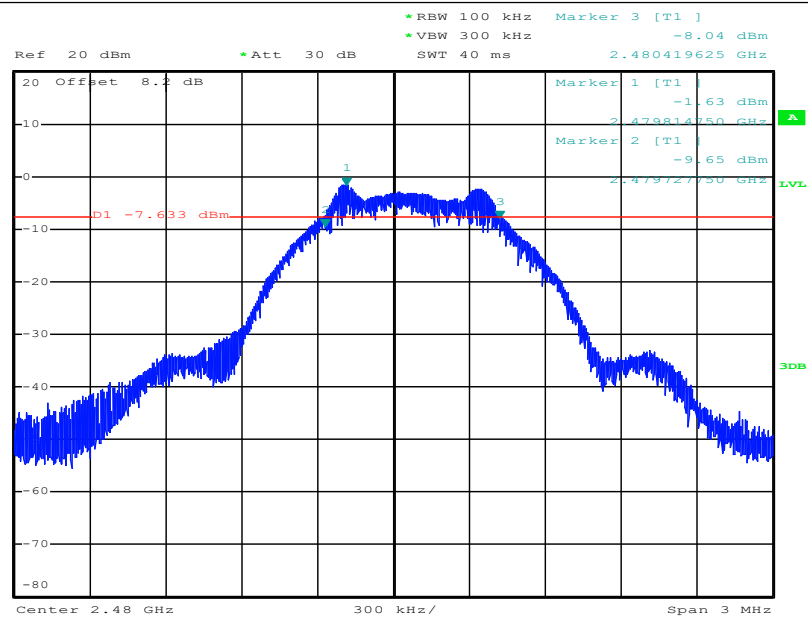
Date: 10.SEP.2019 19:47:05

MCH



Date: 10.SEP.2019 19:50:07

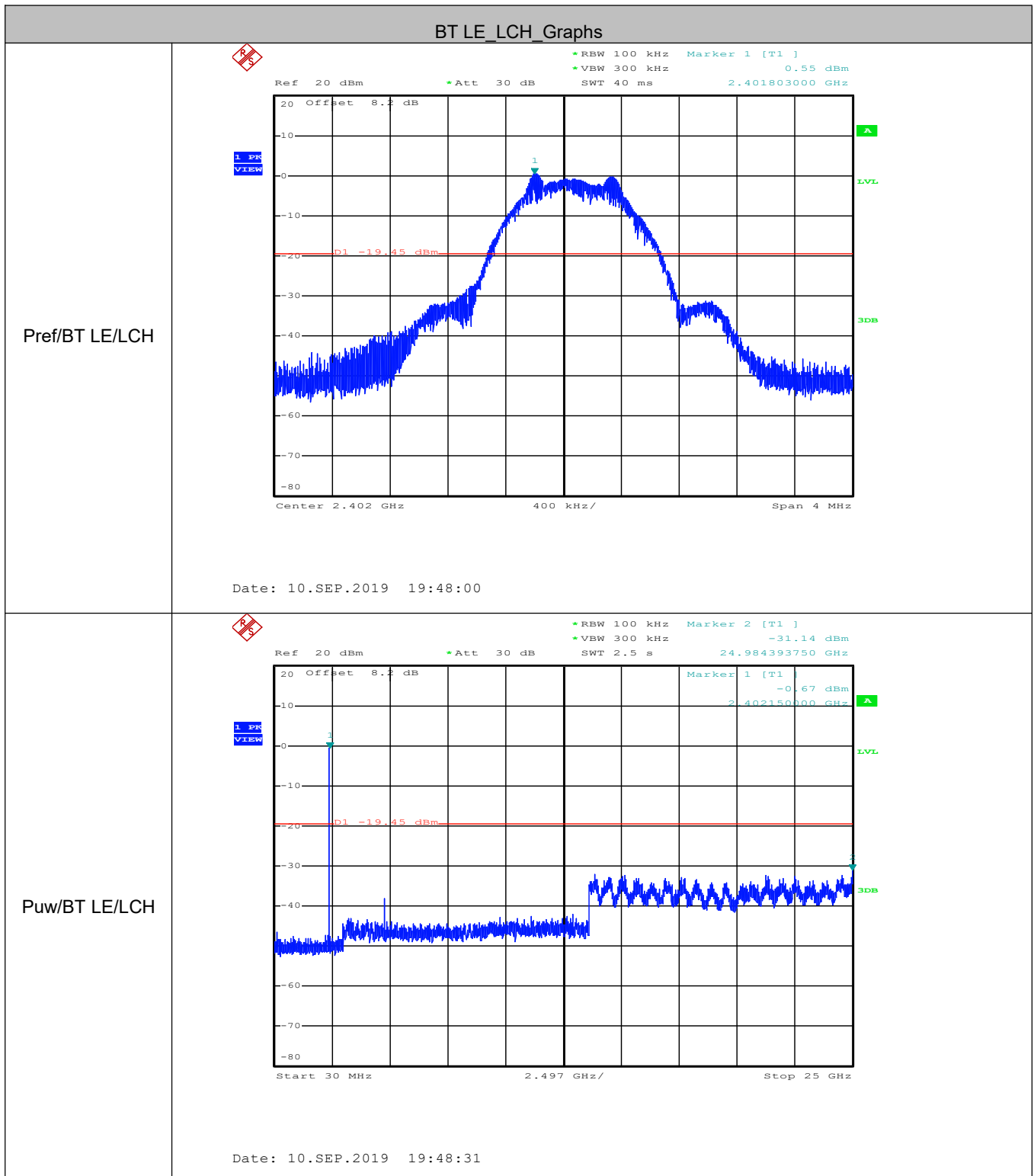
HCH

1 PR
VIEW

Date: 10.SEP.2019 19:51:52

B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.55	-31.140	-19.450	PASS
BT LE	MCH	-0.5	-31.930	-20.500	PASS
BT LE	HCH	-1.67	-31.120	-21.670	PASS



1 PK
VIEW

LVL

3DB

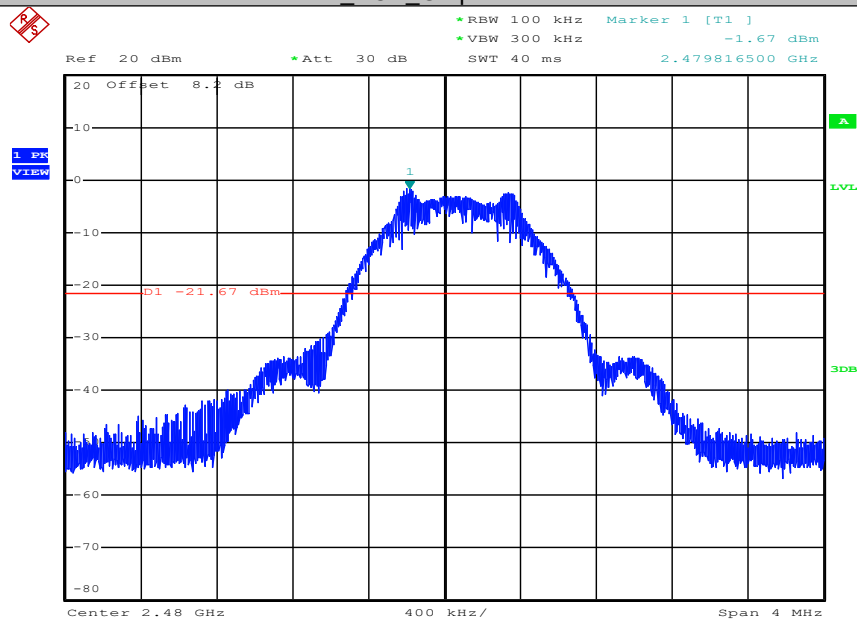
1 PK
VIEW

LVL

3DB

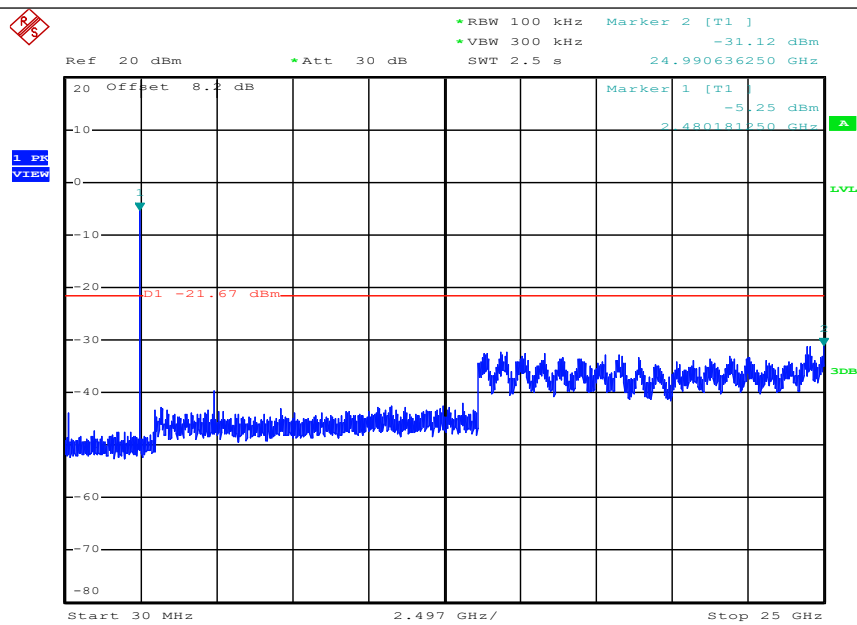
BT LE_HCH_Graphs

Pref/BT LE/HCH



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Puw/BT LE/HCH



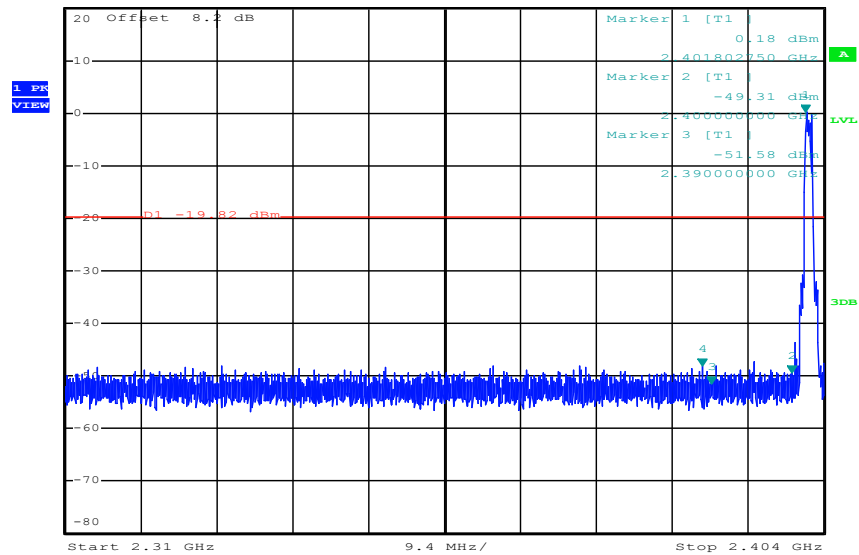
Date: 10.SEP.2019 19:53:18

B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.180	-48.050	-19.82	PASS
BT LE	HCH	-1.800	-48.421	-21.8	PASS

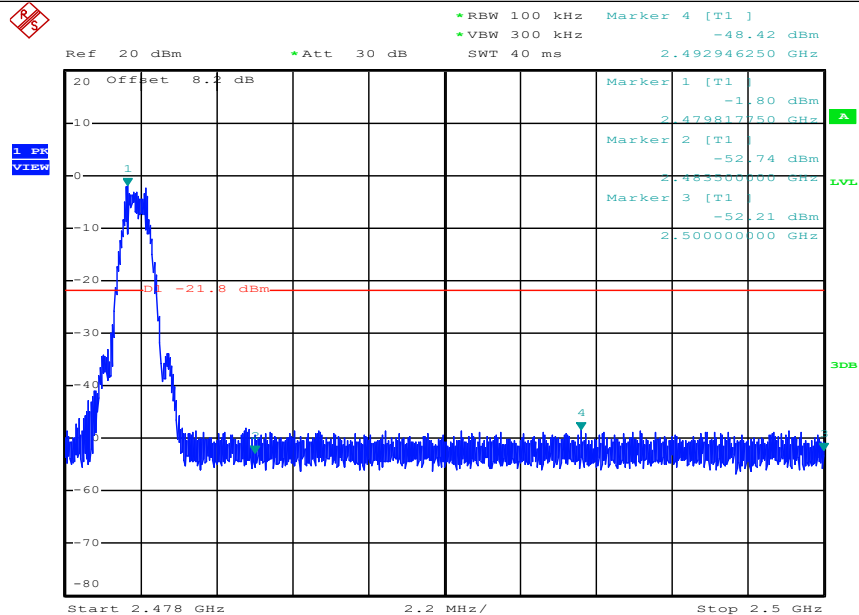
Test Graphs

LCH



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HCH

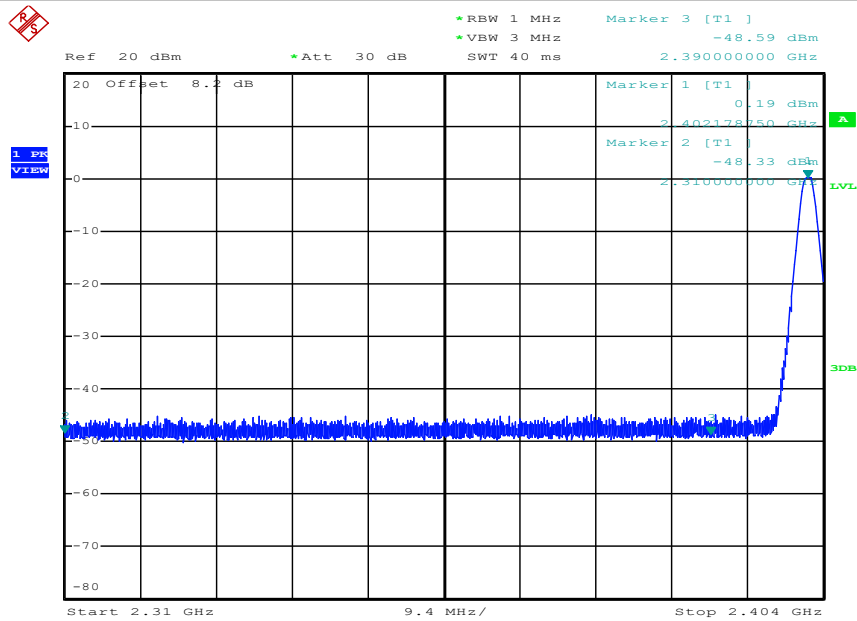


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B.7 Restrict-band band-edge measurements

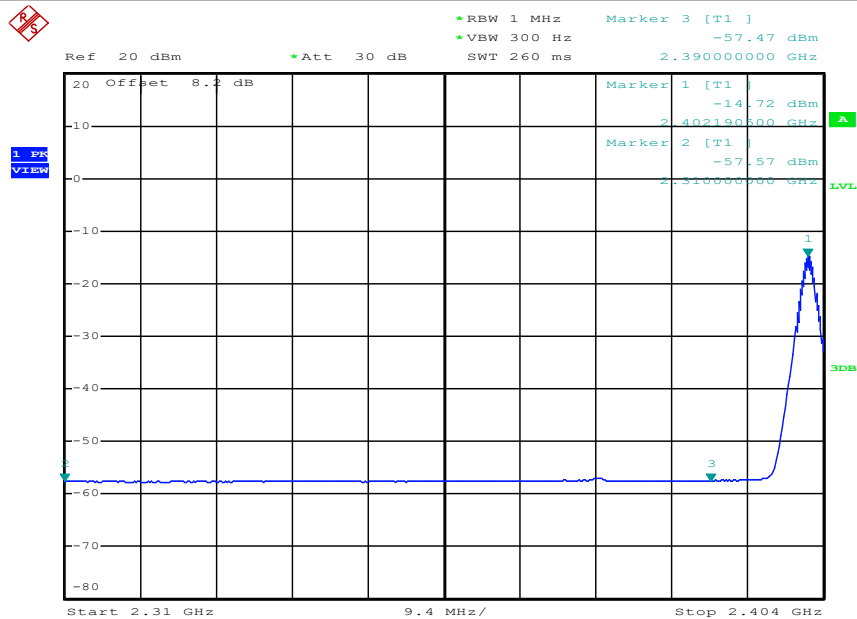
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-48.33	2.0	0	46.93	PEAK	74	PASS
		Ant1	2310.0	-57.57	2.0	0	37.69	AV	54	PASS
		Ant1	2390.0	-48.59	2.0	0	46.67	PEAK	74	PASS
		Ant1	2390.0	-57.47	2.0	0	37.79	AV	54	PASS
	2480	Ant1	2483.5	-39.55	2.0	0	55.71	PEAK	74	PASS
		Ant1	2483.5	-48.13	2.0	0	47.13	AV	54	PASS
		Ant1	2500.0	-49.26	2.0	0	46.00	PEAK	74	PASS
		Ant1	2500.0	-57.98	2.0	0	37.28	AV	54	PASS

Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



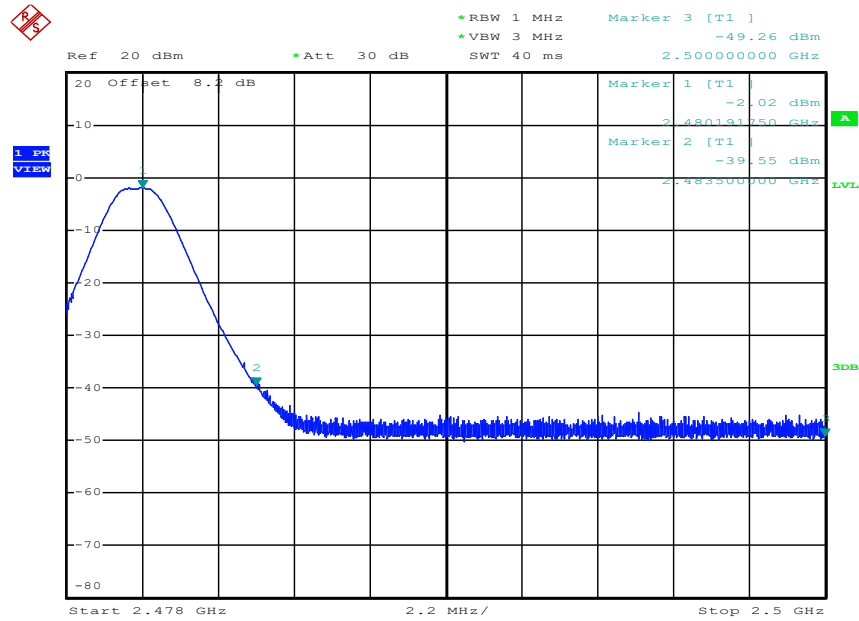
Date: 10.SEP.2019 19:48:49

Restrict-band band-edge measurements_BT LE_2402_Ant1_AV



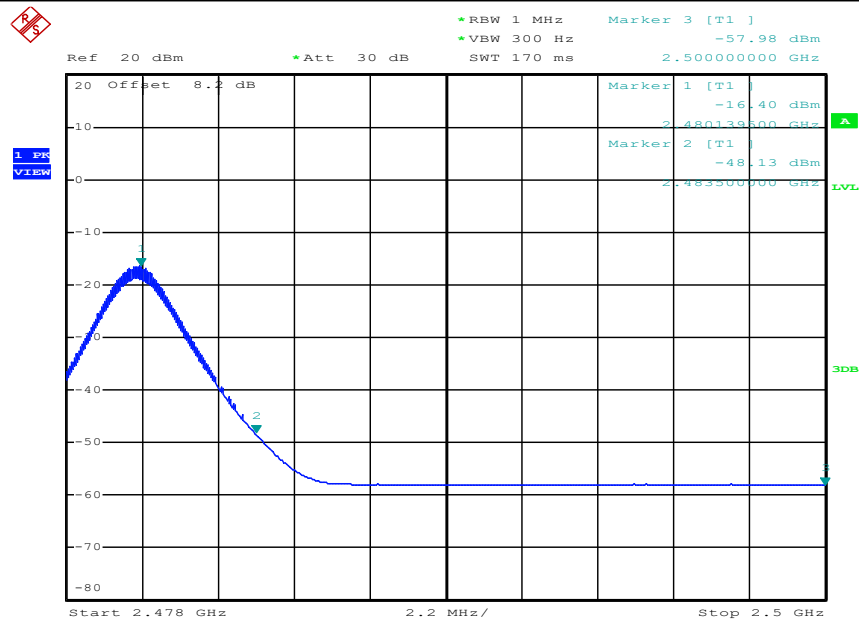
Date: 10.SEP.2019 19:49:04

Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



Date: 10.SEP.2019 19:53:37

Restrict-band band-edge measurements_BT LE_2480_Ant1_AV



Date: 10.SEP.2019 19:53:52