

Appendix B

RF Test Data for BT V4.2(BDR/EDR) (Conducted Measurement)

Product Name: IPTV Set-Top Box

Trade Mark: N/A

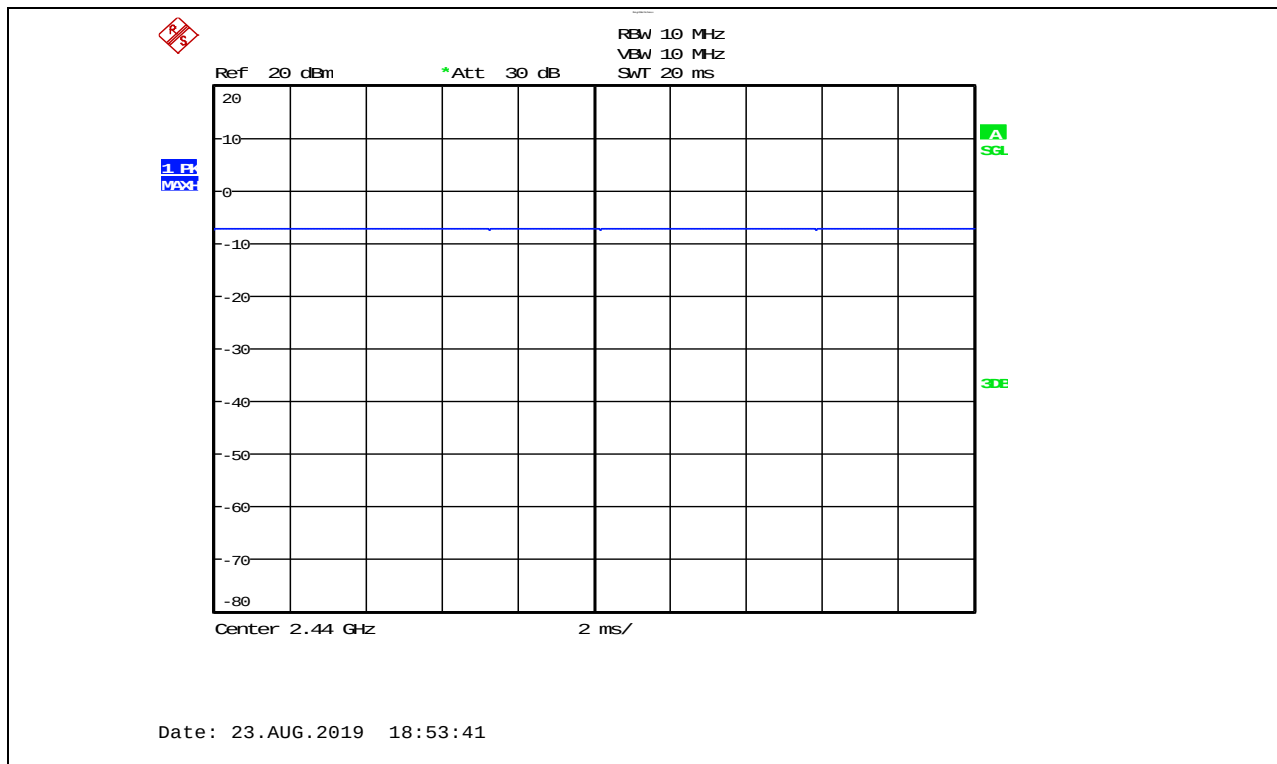
Test Model: SML-5051W

Environmental Conditions

Temperature:	23.4 ° C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	David Luo
Supervised by:	Wang.Chuang

B.1 Duty Cycle

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

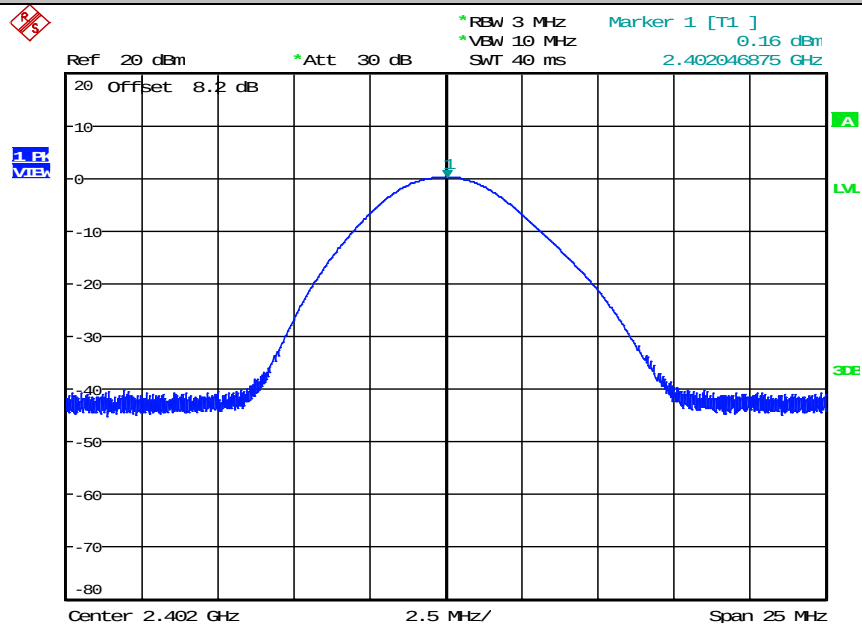


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.16	30	PASS
BT LE	MCH	1.26	30	PASS
BT LE	HCH	-0.23	30	PASS

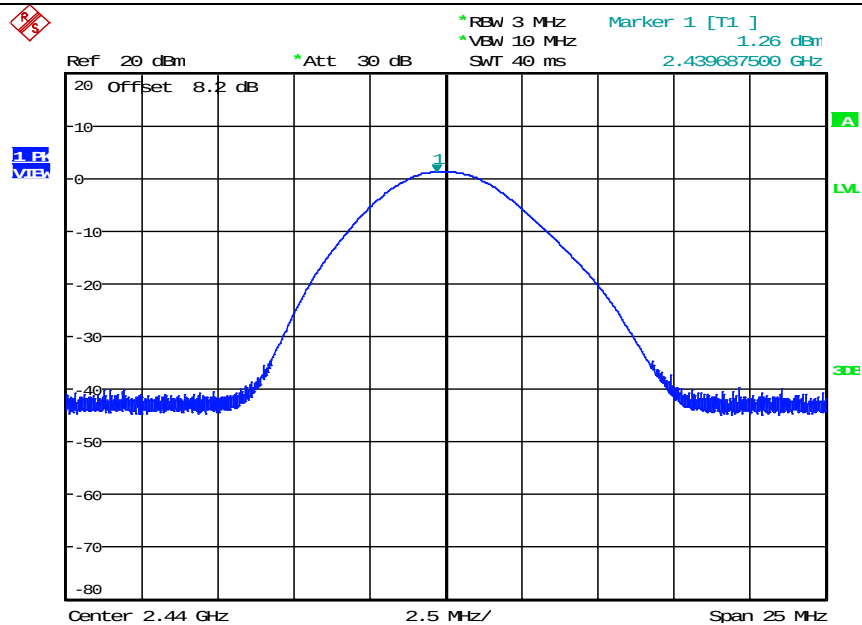
Test Graphs

LCH



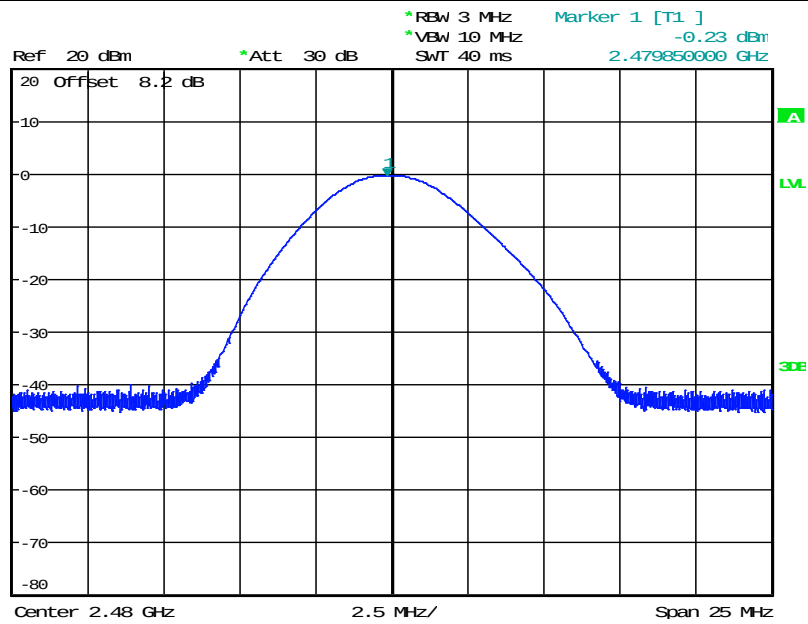
Date: 23.AUG.2019 18:47:19

MCH



Date: 23.AUG.2019 18:49:47

HCH



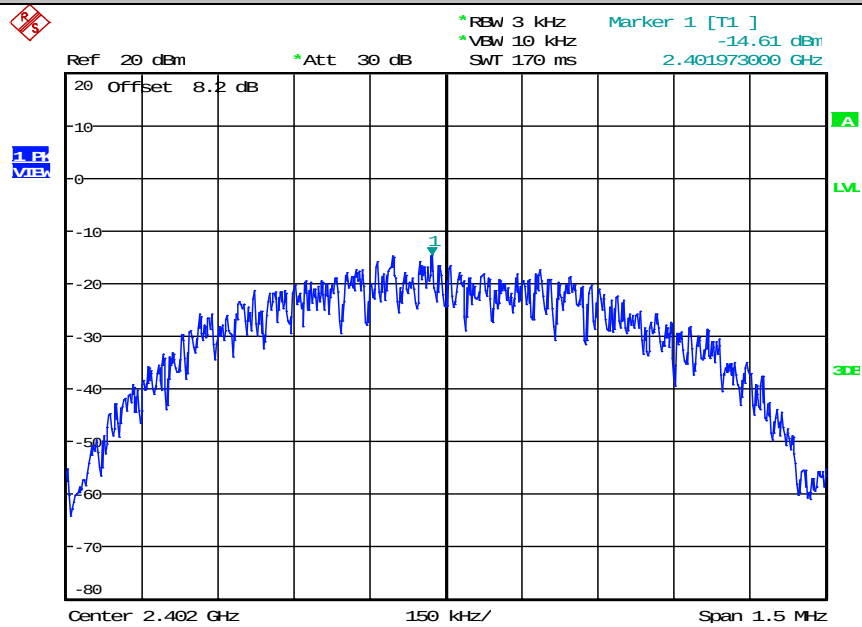
Date: 23.AUG.2019 18:51:33

B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.610	8	PASS
BT LE	MCH	-13.510	8	PASS
BT LE	HCH	-15.030	8	PASS

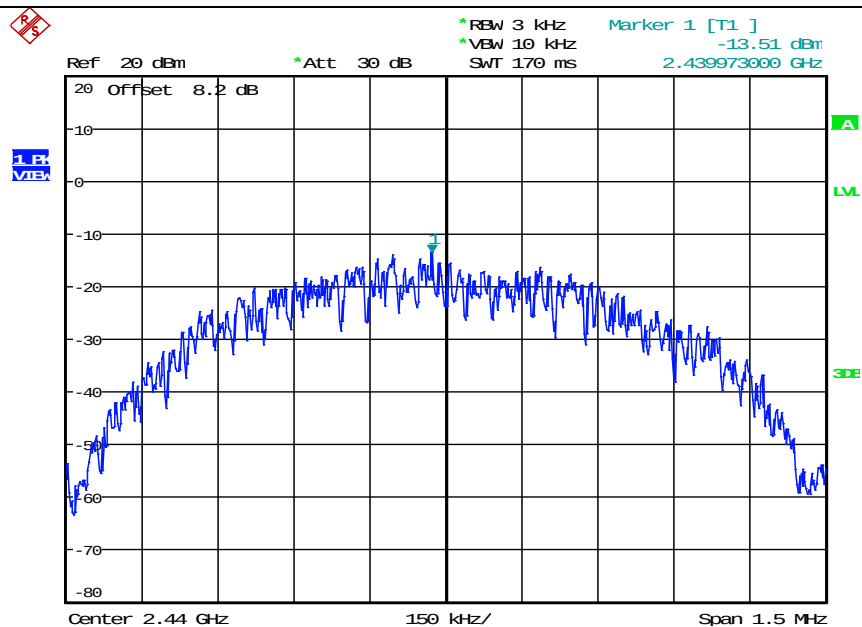
Test Graphs

LCH



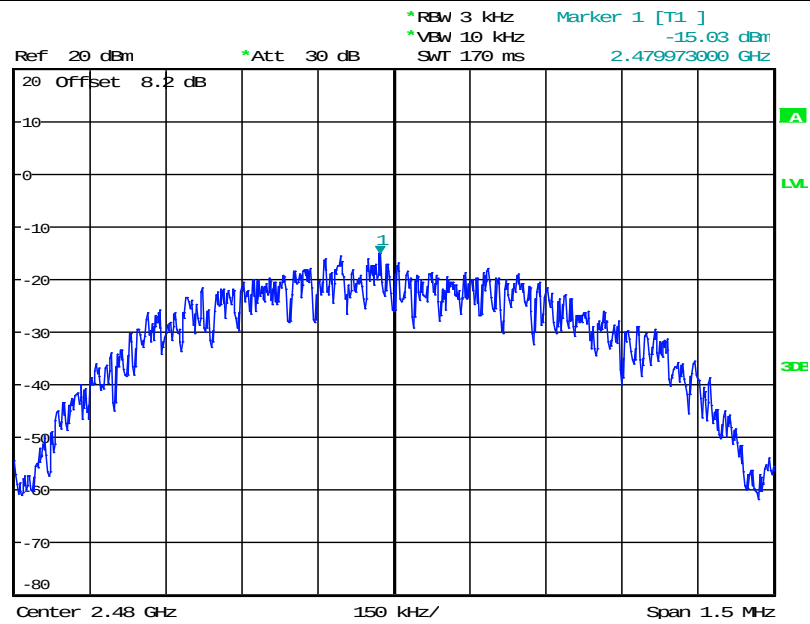
Date: 23.AUG.2019 18:47:34

MCH



Date: 23.AUG.2019 18:50:02

HCH



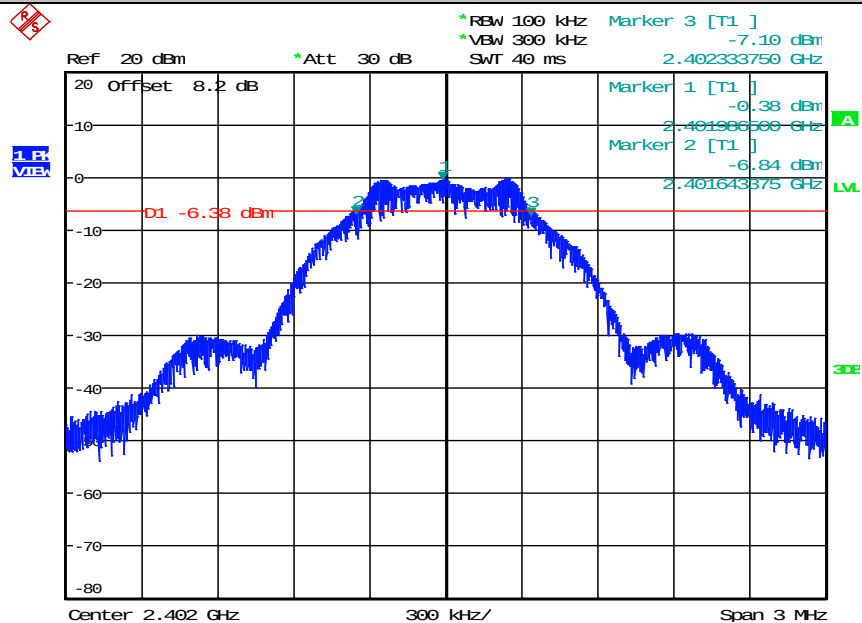
Date: 23.AUG.2019 18:51:47

B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.690	≥ 0.5	PASS
BT LE	MCH	0.690	≥ 0.5	PASS
BT LE	HCH	0.700	≥ 0.5	PASS

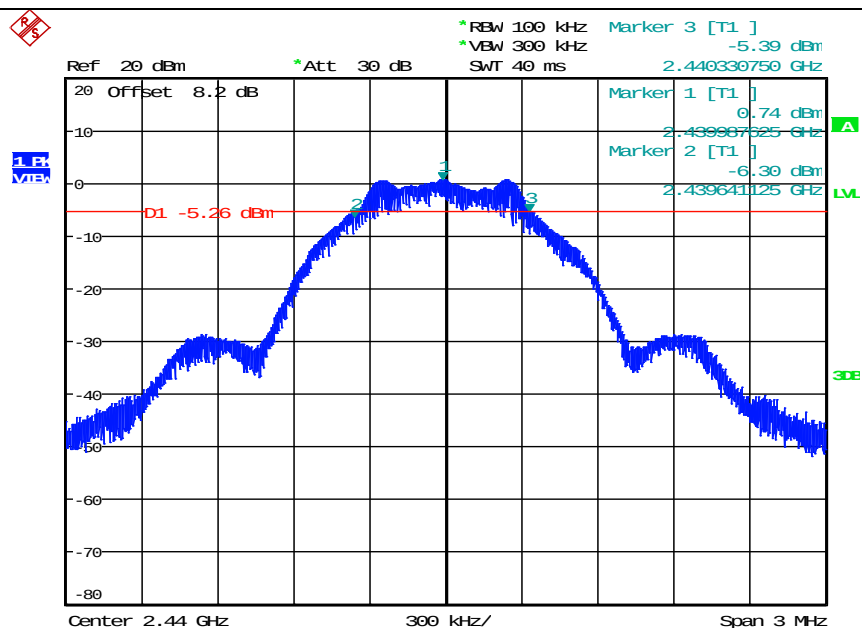
Test Graphs

LCH



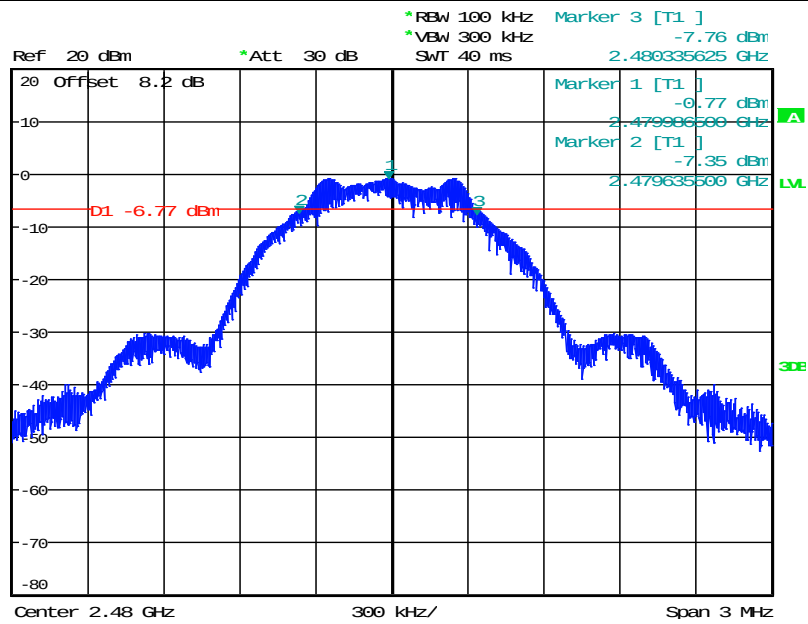
Date: 23.AUG.2019 18:47:06

MCH



Date: 23.AUG.2019 18:49:34

HCH



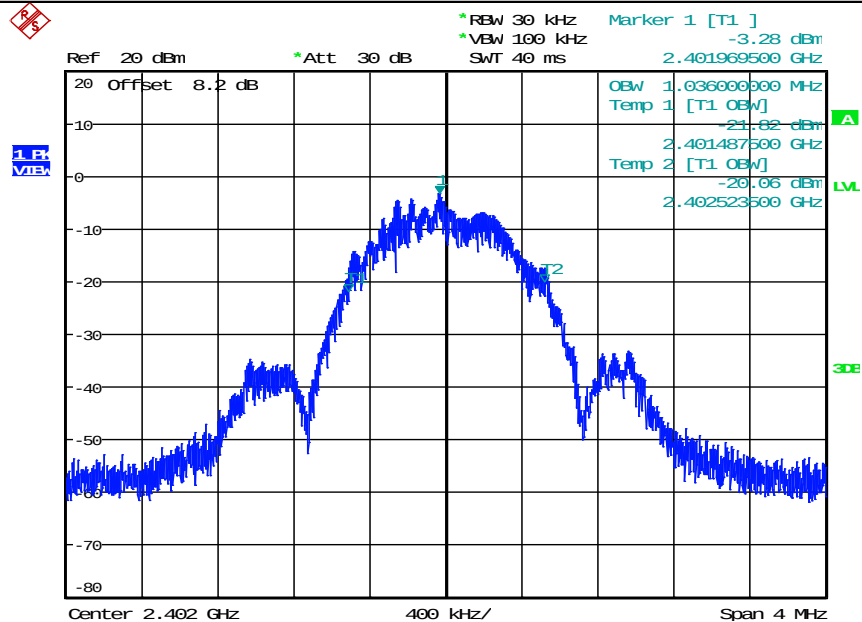
Date: 23.AUG.2019 18:51:20

B.5 Occupied Bandwidth

Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.036	≥ 0.5	PASS
BT LE	MCH	1.035	≥ 0.5	PASS
BT LE	HCH	1.031	≥ 0.5	PASS

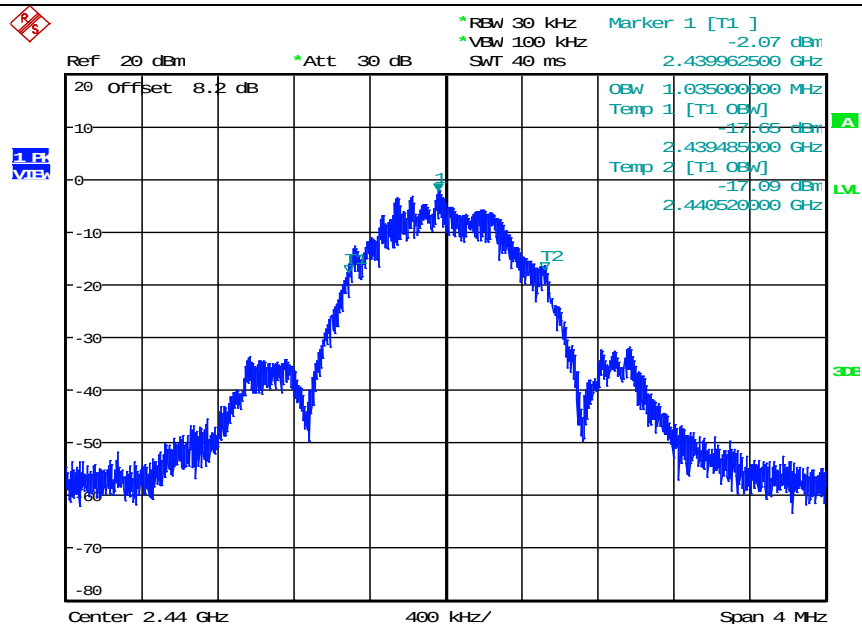
Test Graphs

LCH



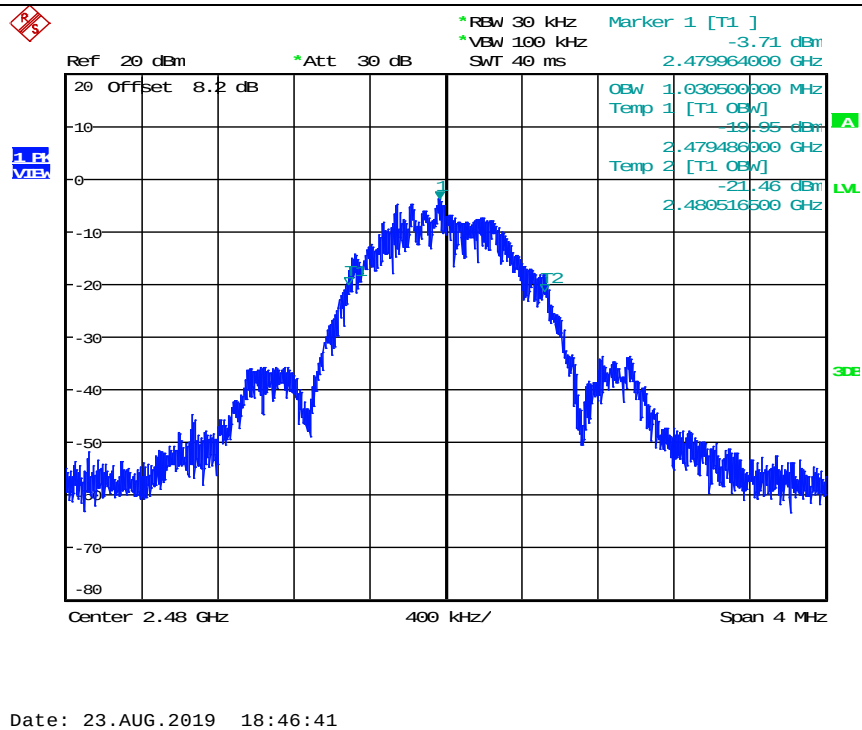
Date: 23.AUG.2019 18:45:54

MCH



Date: 23.AUG.2019 18:46:17

HCH

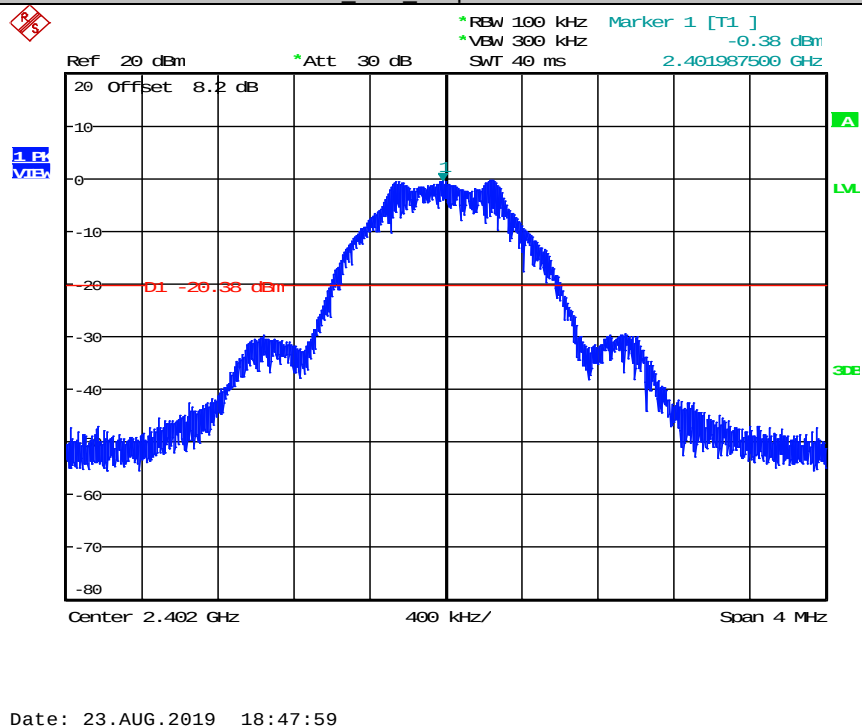


B.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.38	-31.350	-20.380	PASS
BT LE	MCH	0.7	-31.070	-19.300	PASS
BT LE	HCH	-0.81	-31.680	-20.810	PASS

BT LE LCH Graphs

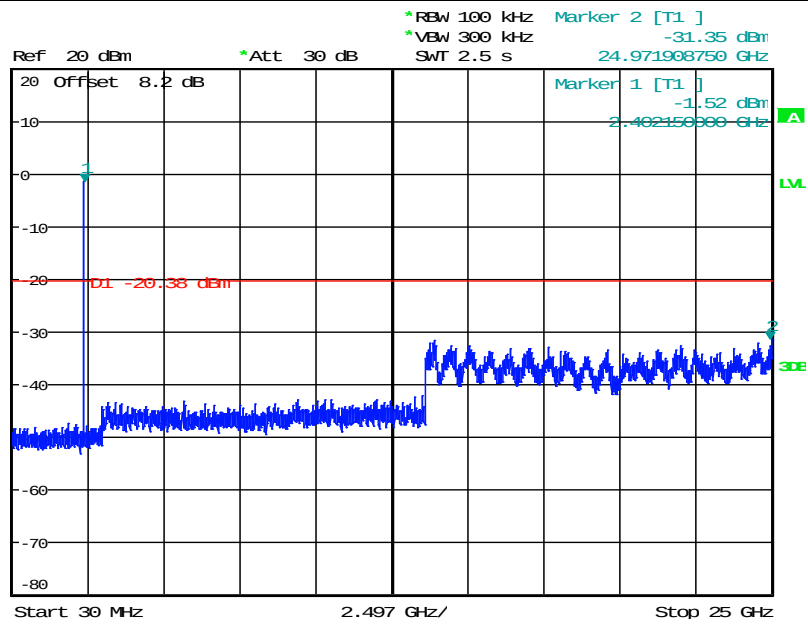
Pref/BT LE/LCH



Puw/BT LE/LCH



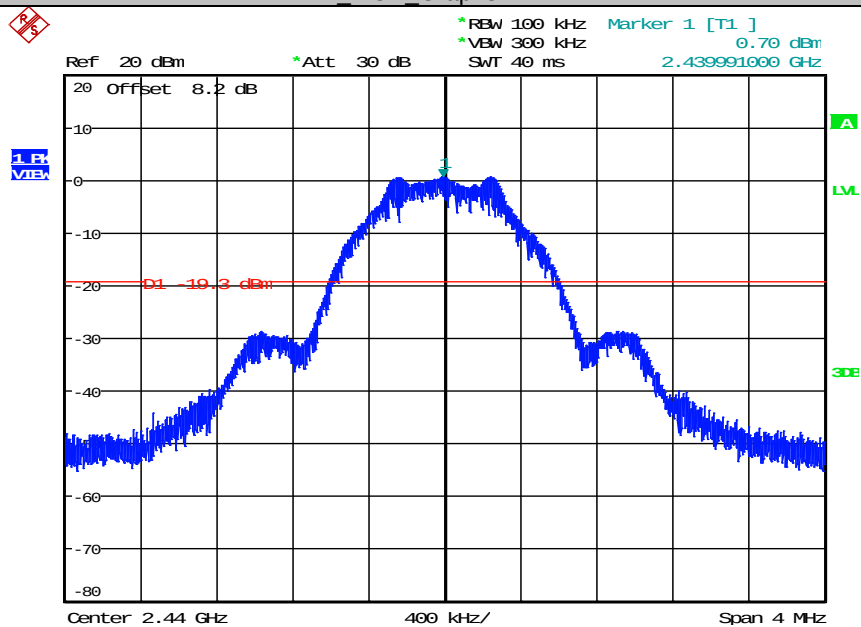
Full View



Date: 23.AUG.2019 18:48:30

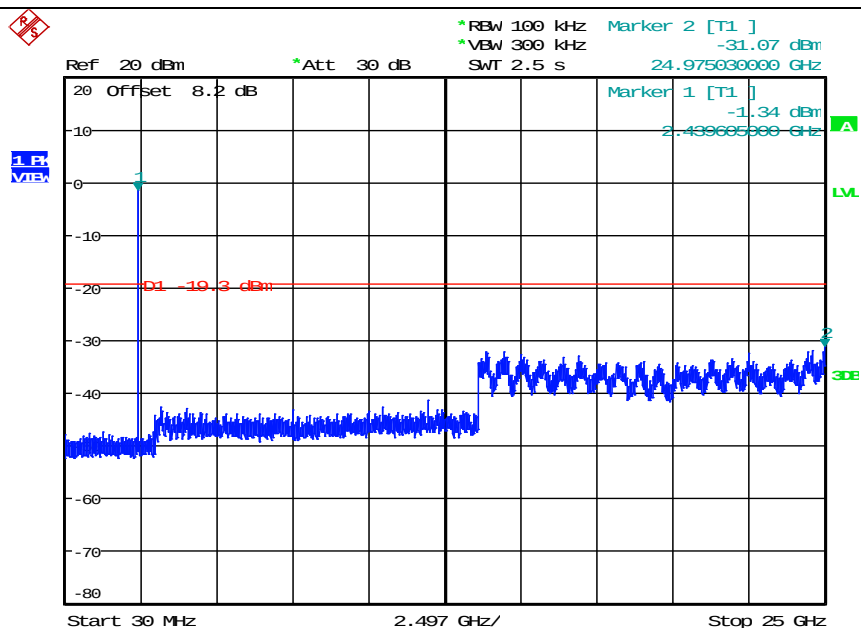
BT LE MCH Graphs

Pref/BT LE/MCH



Date: 23.AUG.2019 18:50:13

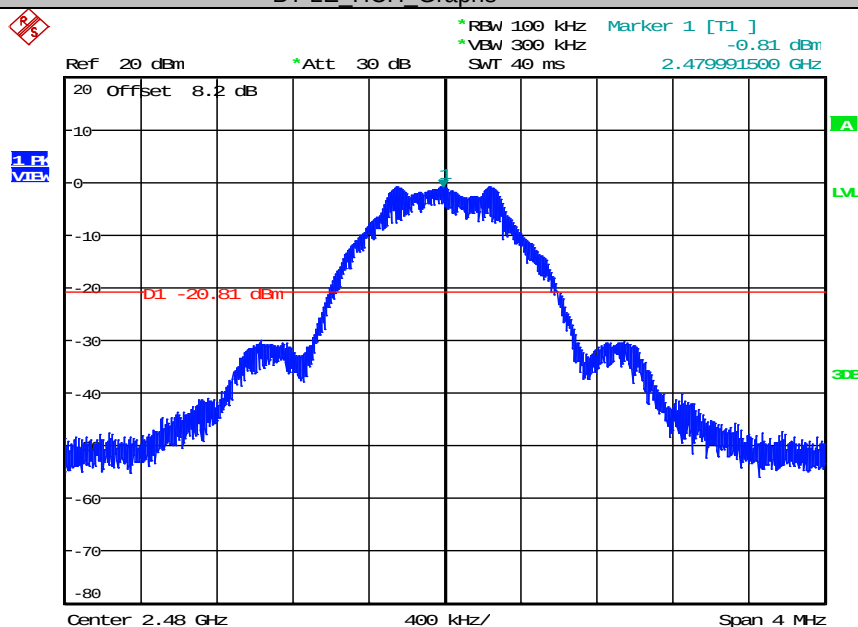
Puw/BT LE/MCH



Date: 23.AUG.2019 18:50:44

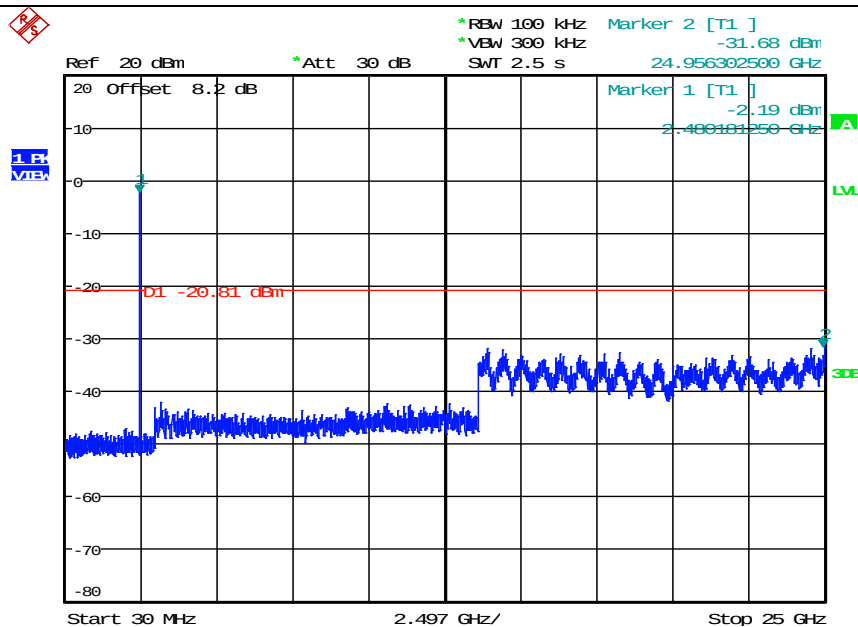
BT LE HCH Graphs

Pref/BT LE/HCH



Date: 23.AUG.2019 18:52:13

Puw/BT LE/HCH



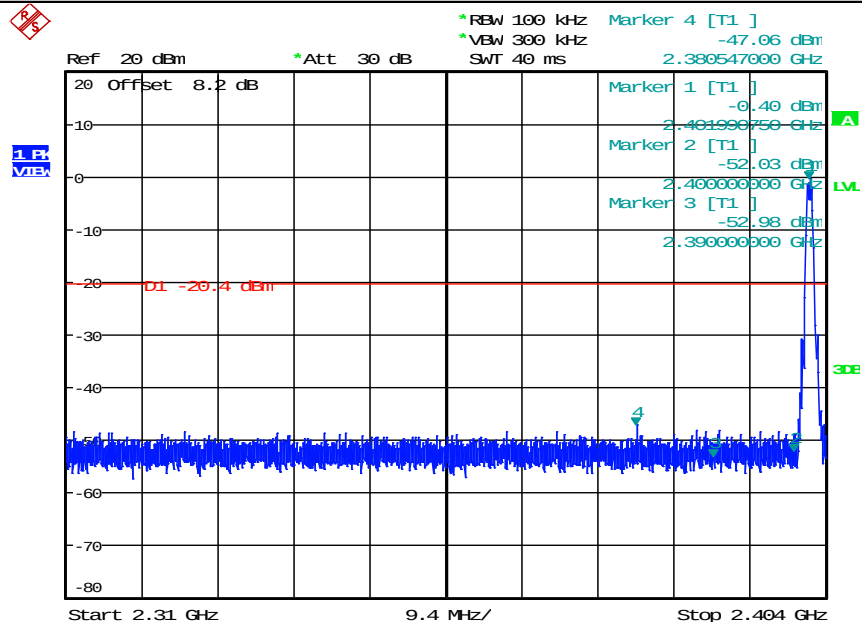
Date: 23.AUG.2019 18:52:44

B.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.400	-47.059	-20.4	PASS
BT LE	HCH	-0.800	-47.117	-20.8	PASS

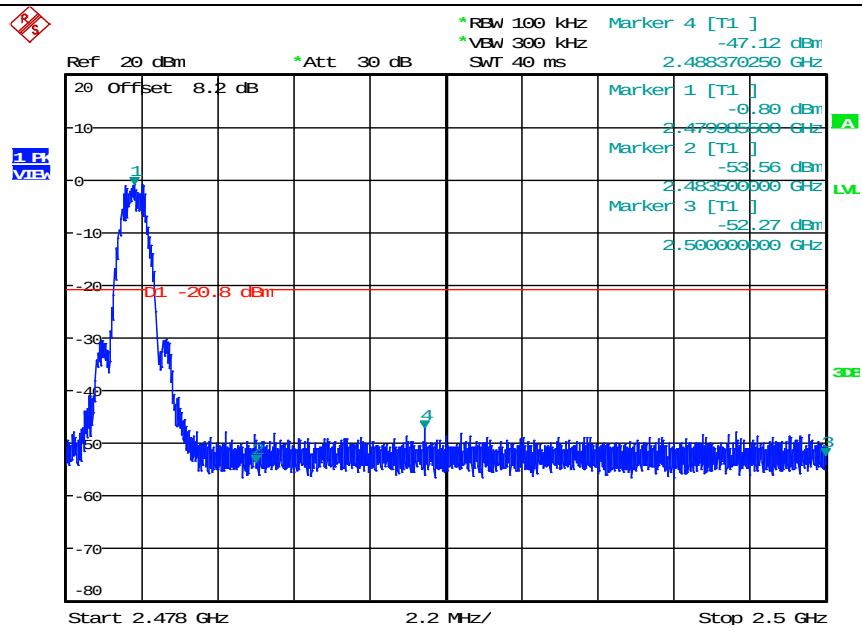
Test Graphs

LCH



Date: 23.AUG.2019 18:47:47

HCH

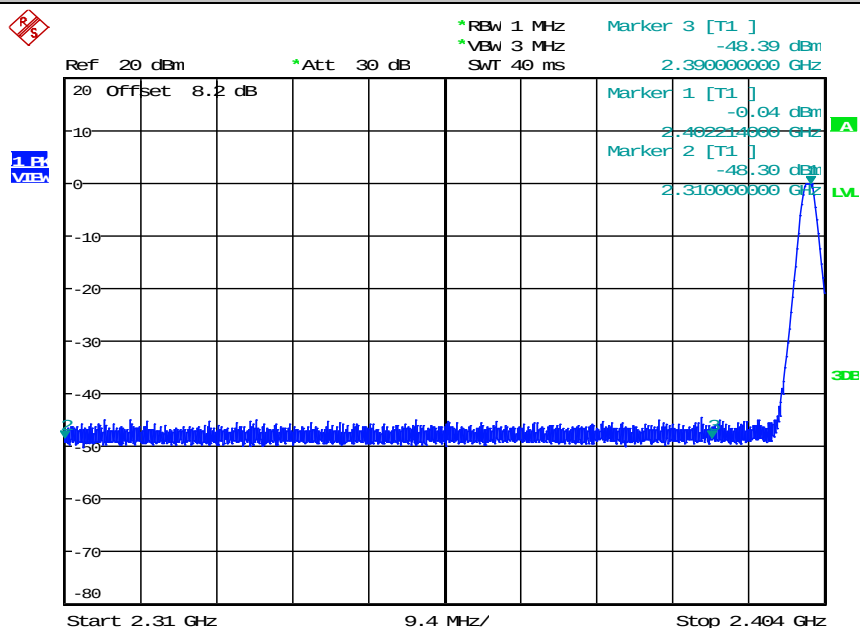


Date: 23.AUG.2019 18:52:00

B.8 Restrict-band band-edge measurements

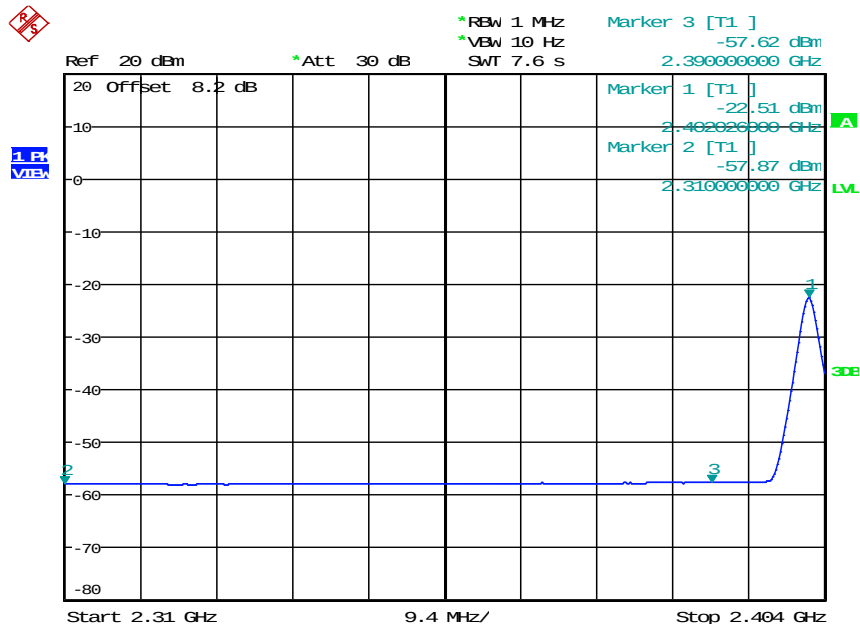
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-48.30	2.0	0	48.96	PEAK	74	PASS
		Ant1	2310.0	-57.87	2.0	0	39.39	AV	54	PASS
		Ant1	2390.0	-48.39	2.0	0	48.87	PEAK	74	PASS
		Ant1	2390.0	-57.62	2.0	0	39.64	AV	54	PASS
	2480	Ant1	2483.5	-39.04	2.0	0	58.22	PEAK	74	PASS
		Ant1	2483.5	-49.12	2.0	0	48.14	AV	54	PASS
		Ant1	2500.0	-47.00	2.0	0	50.26	PEAK	74	PASS
		Ant1	2500.0	-58.23	2.0	0	39.03	AV	54	PASS

Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



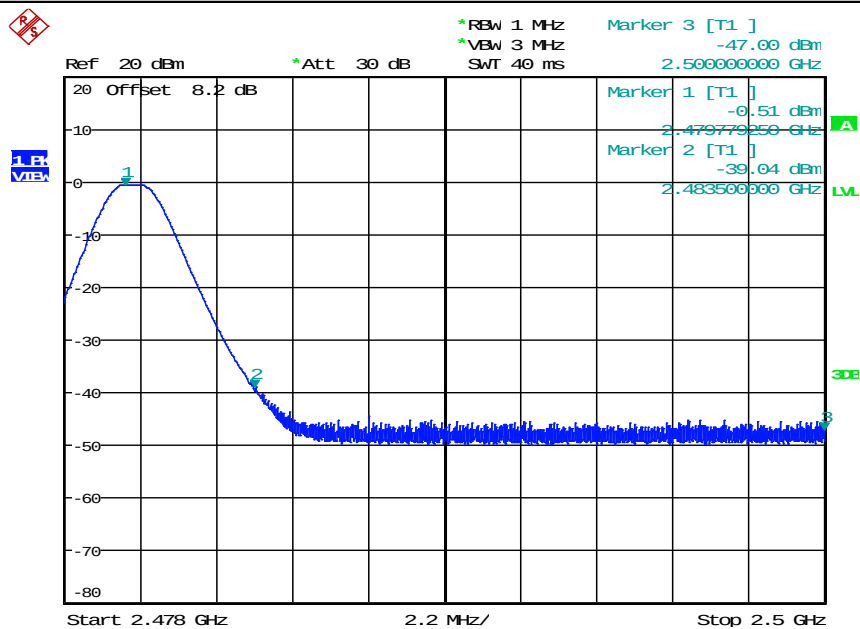
Date: 23.AUG.2019 18:48:48

Restrict-band band-edge measurements_BT LE_2402_Ant1_AV



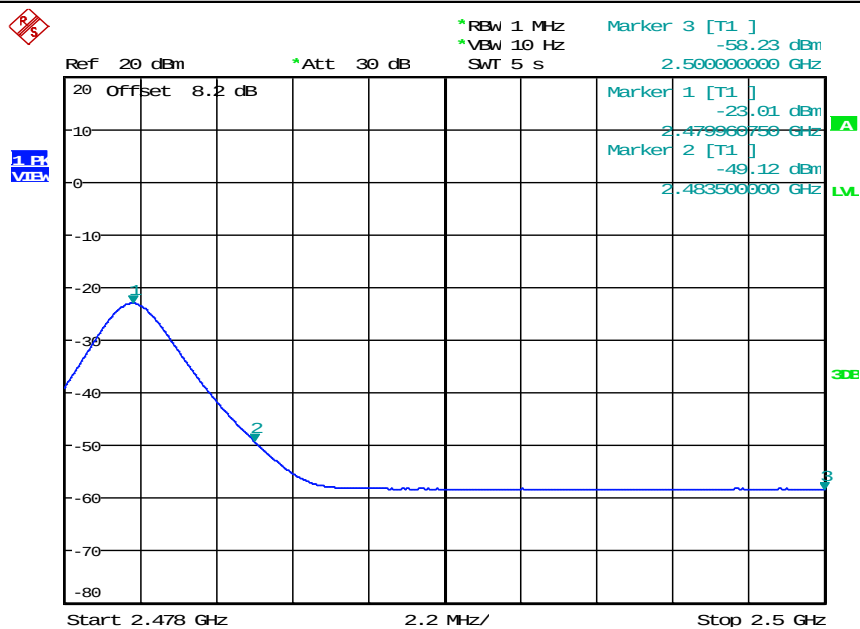
Date: 23.AUG.2019 18:49:03

Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



Date: 23.AUG.2019 18:53:02

Restrict-band band-edge measurements_BT LE_2480_Ant1_AV



Date: 23.AUG.2019 18:53:17