# Appendix A

# RF Test Data for BT V4.2 (Conducted Measurement)

Product Name: Versa Dosing Pump
Trade Mark: EcoTech Marine

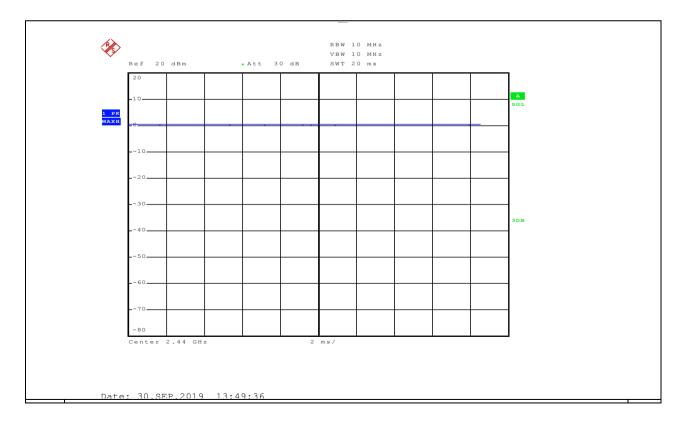
**Test Model: VX-1** 

#### **Environmental Conditions**

Temperature:	24.5 ° C
Relative Humidity:	54.4%
ATM Pressure:	100.0 kPa
Test Engineer:	JK Zhou
Supervised by:	Wang Chuang

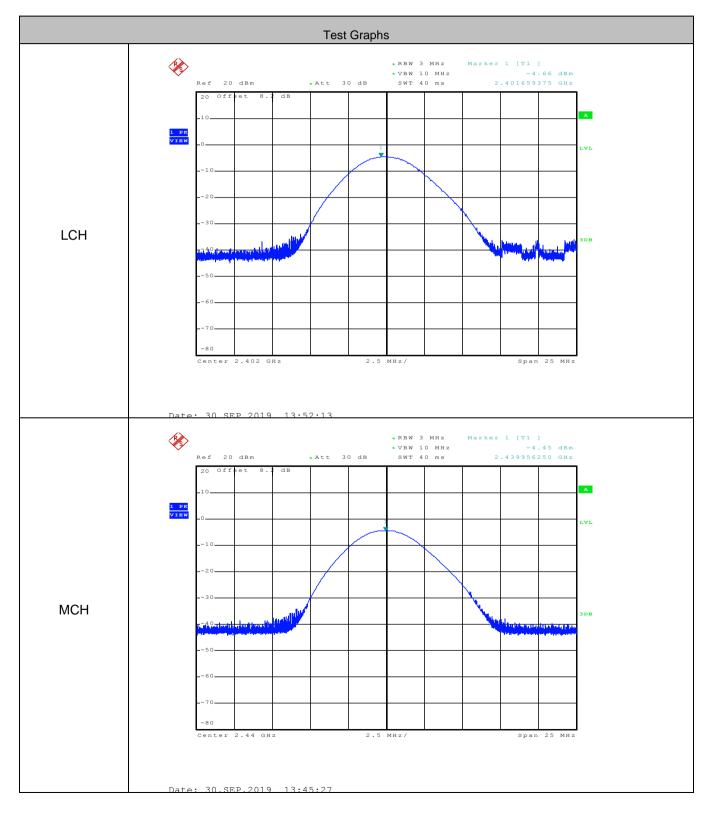
### A.1 Duty Cycle

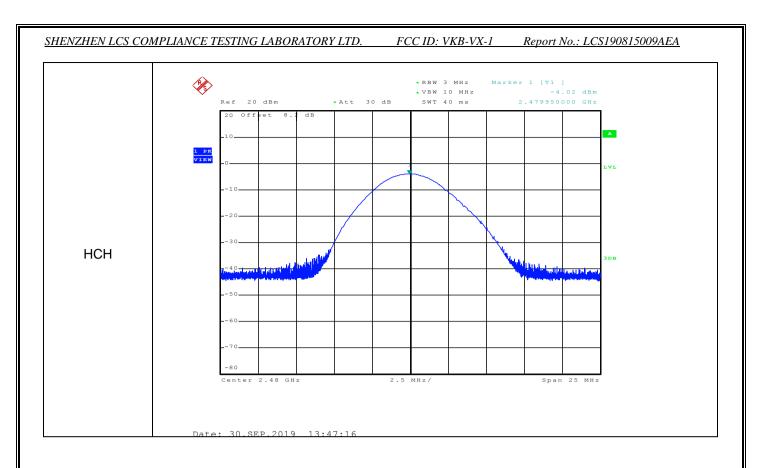
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS



## A.2 Maximum Conducted Peak Output Power

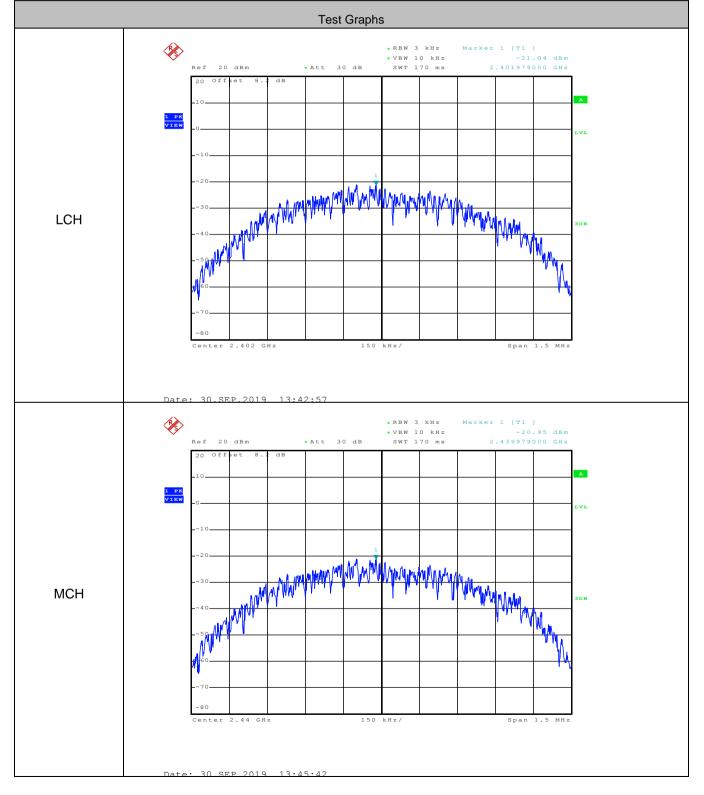
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.66	30	PASS
BT LE	MCH	-4.45	30	PASS
BT LE	HCH	-4.02	30	PASS



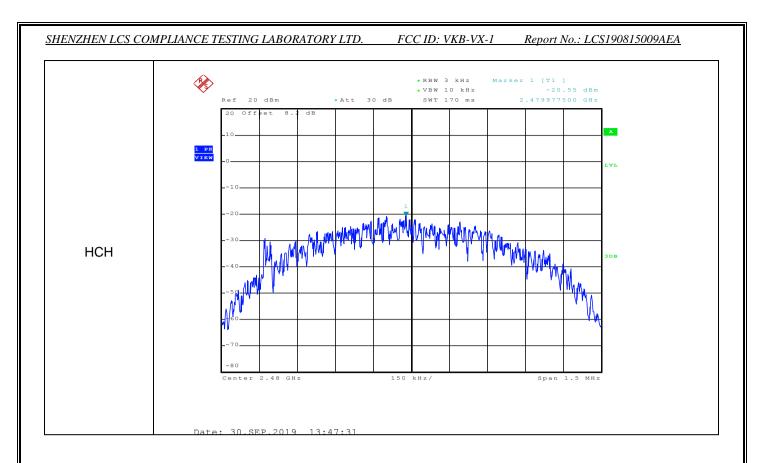


#### A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-21.040	8	PASS
BT LE	MCH	-20.950	8	PASS
BT LE	НСН	-20.550	8	PASS

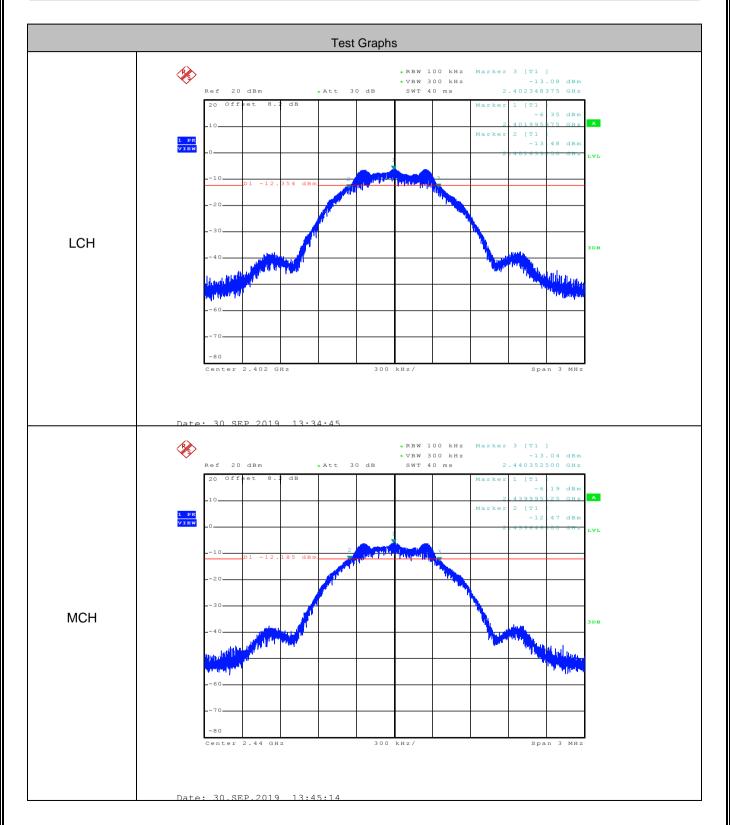


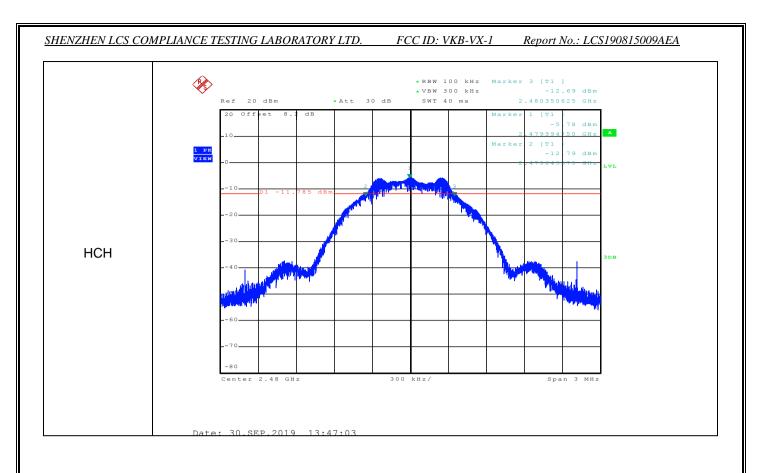
Page 4 of 16



#### A.4 6dB Bandwidth

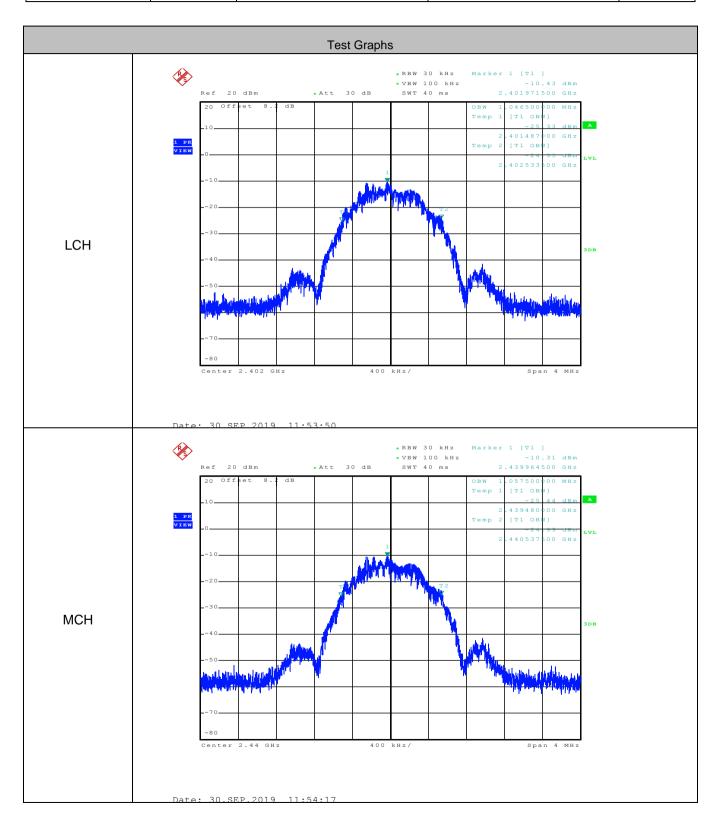
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.709	≥0.5	PASS
BT LE	MCH	0.706	≥0.5	PASS
BT LE	HCH	0.707	≥0.5	PASS

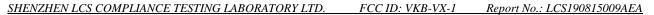


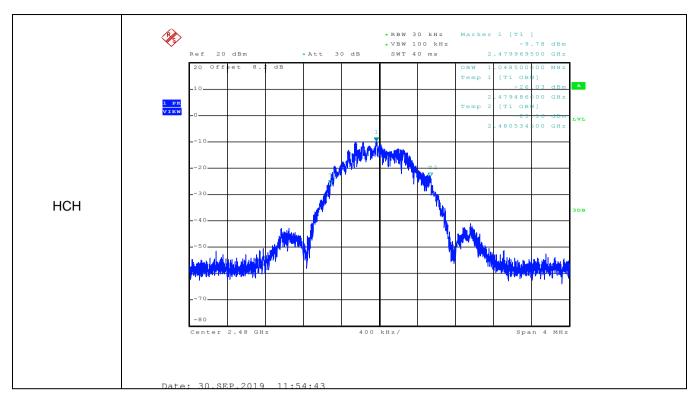


## A.5 Occupied Bandwidth

Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.047	≥0.5	PASS
BT LE	MCH	1.058	≥0.5	PASS
BT LE	НСН	1.049	≥0.5	PASS

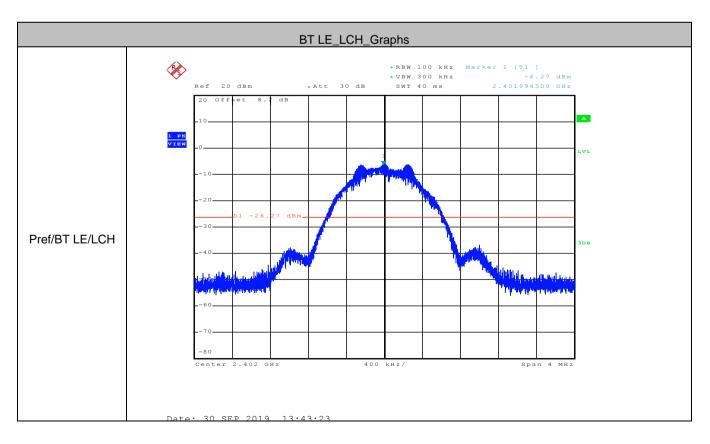


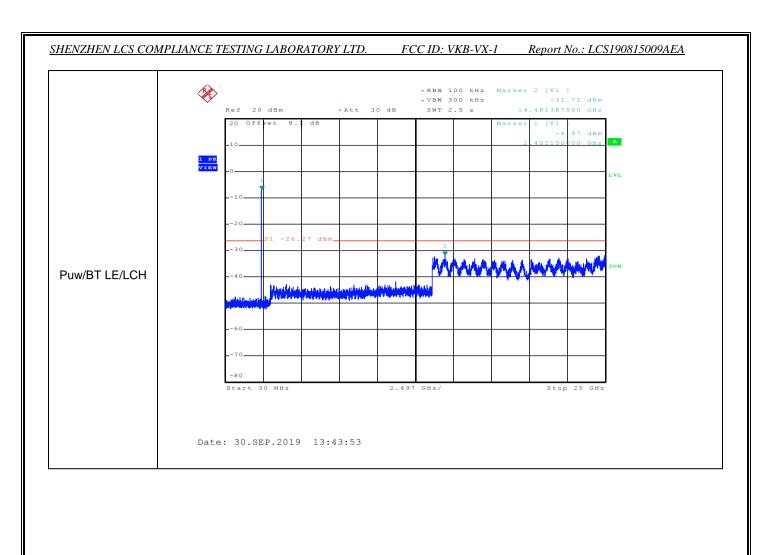


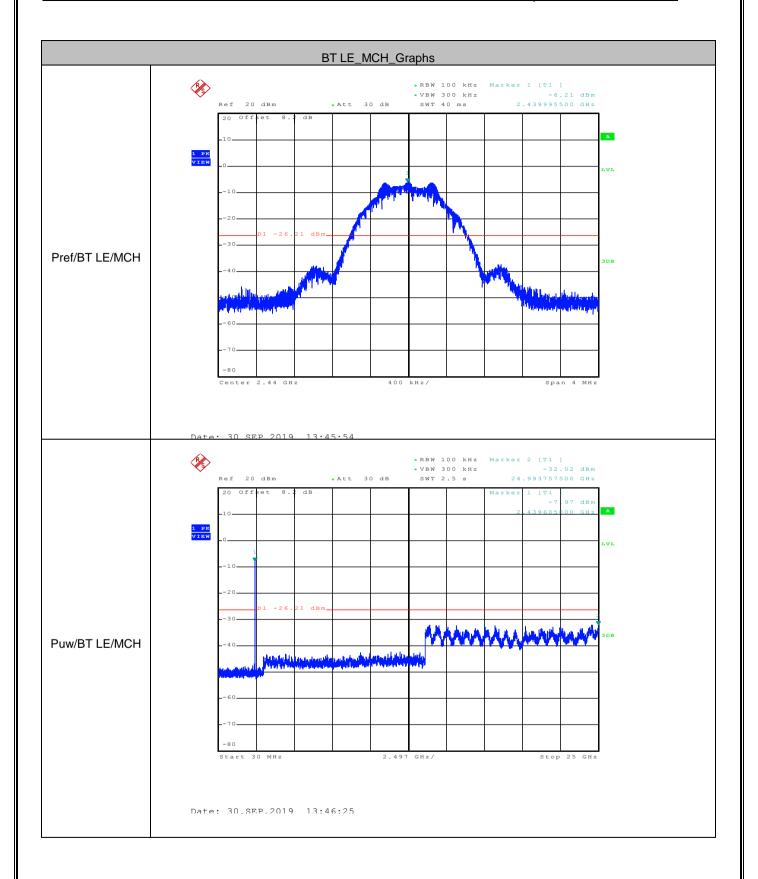


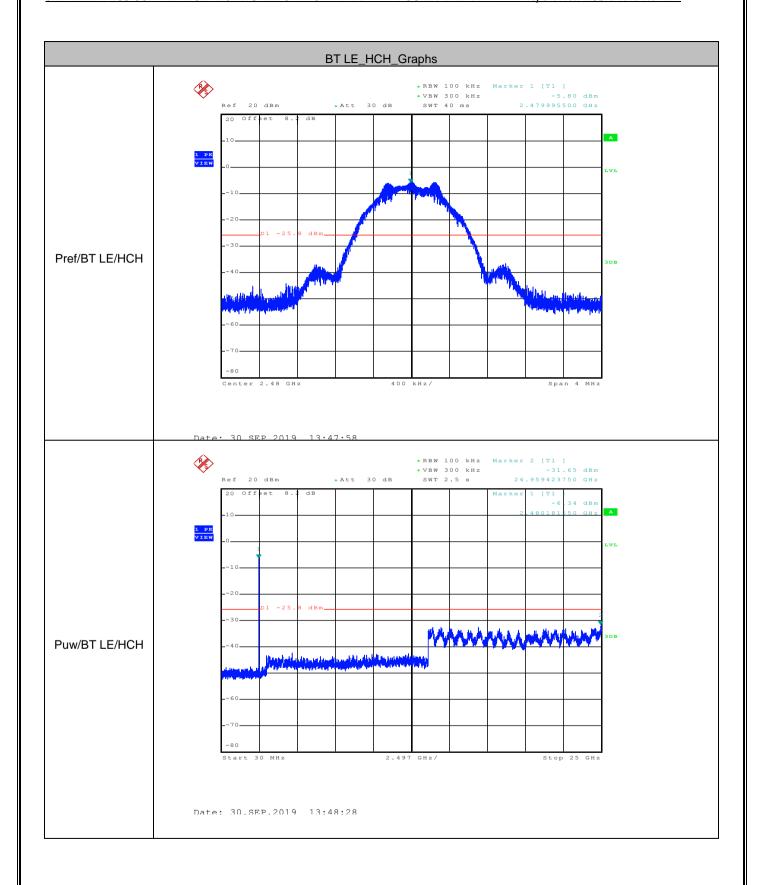
## A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-6.27	-31.720	-26.270	PASS
BT LE	мсн	-6.21	-32.020	-26.210	PASS
BT LE	нсн	-5.8	-31.650	-25.800	PASS



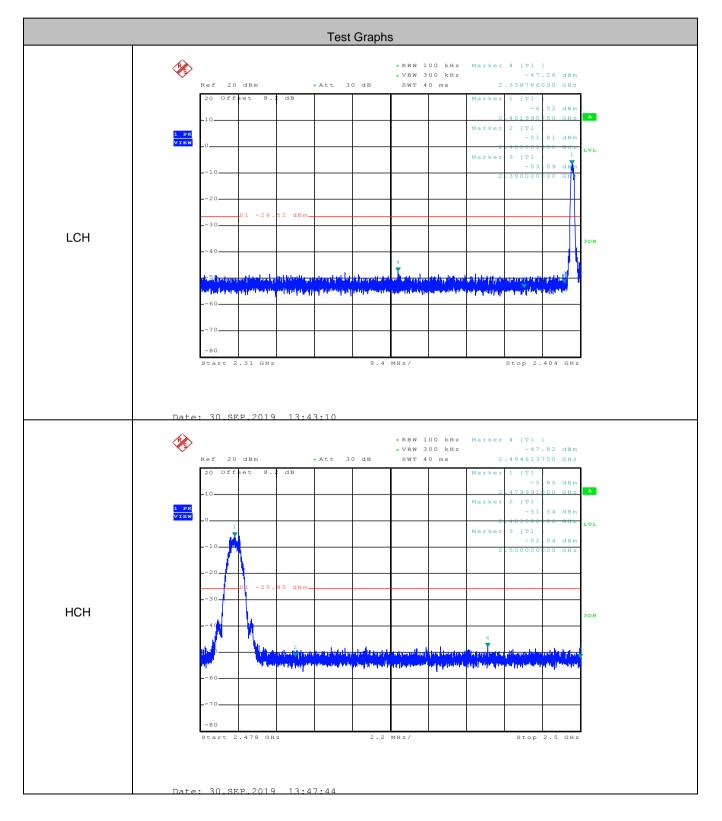






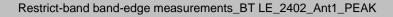
## A.7 Band-edge for RF Conducted Emissions

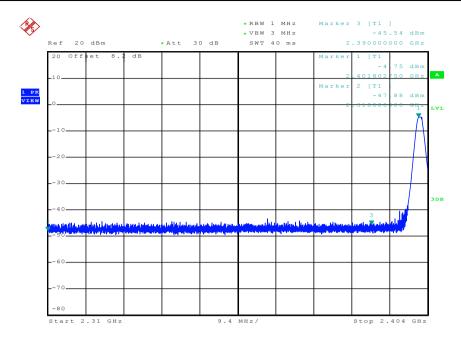
Mode	Channel	Channel Carrier Power[dBm] Max.Spurious Lev		Limit [dBm]	Verdict
BT LE	LCH	-6.520	-47.263	-26.52	PASS
BT LE	HCH	-5.850	-47.819	-25.85	PASS



# A.8 Restrict-band band-edge measurements

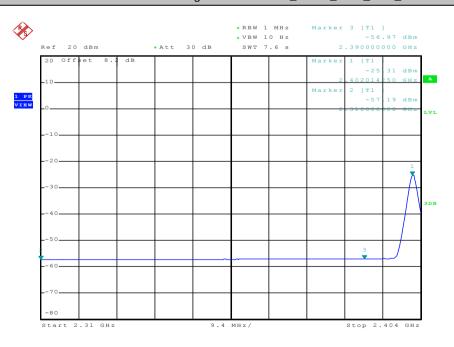
Test Mode	Test Chann el	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/ m]	Verdi
		Ant1	2310.0	-47.88	2.0	0	47.38	PEAK	74	PASS
	2402	Ant1	2310.0	-57.19	2.0	0	38.07	AV	54	PASS
		Ant1	2390.0	-45.54	2.0	0	49.72	PEAK	74	PASS
		Ant1	2390.0	-56.97	2.0	0	38.29	AV	54	PASS
BT LE	2480	Ant1	2483.5	-40.96	2.0	0	54.30	PEAK	74	PASS
		Ant1	2483.5	-50.90	2.0	0	44.36	AV	54	PASS
		Ant1	2500.0	-47.66	2.0	0	47.60	PEAK	74	PASS
		Ant1	2500.0	-57.54	2.0	0	37.72	AV	54	PASS





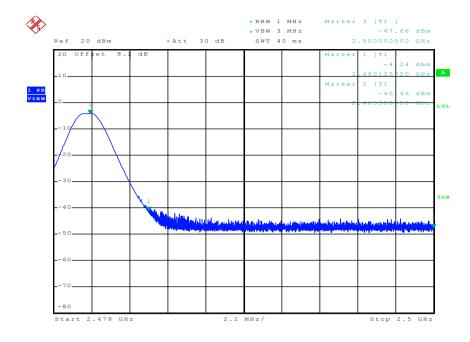
Date: 30.SEP.2019 13:44:12

#### Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_AV



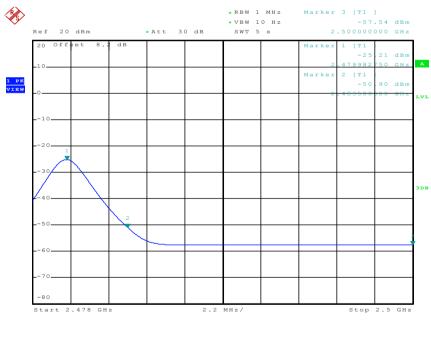
Date: 30.SEP.2019 13:44:29

#### Restrict-band band-edge measurements\_BT LE\_2480\_Ant1\_PEAK



Date: 30.SEP.2019 13:48:47

#### Restrict-band band-edge measurements\_BT LE\_2480\_Ant1\_AV



Date: 30.SEP.2019 13:49:03