# Appendix A

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

Product Name: VISION SB-900P Active Soundbar Trade Mark: VISION

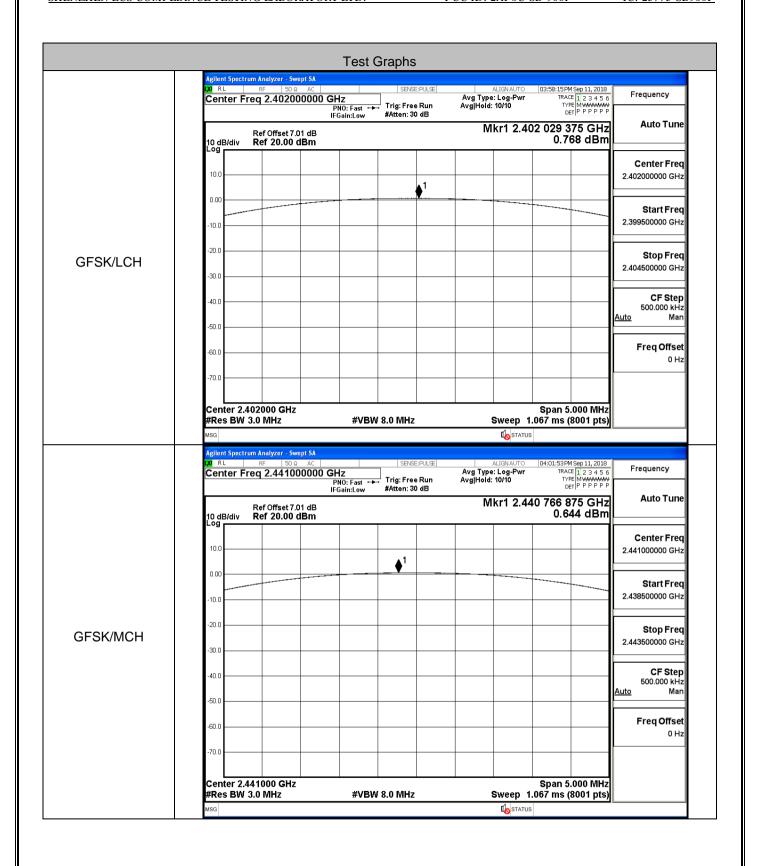
Test Model: SB-900P

### **Environmental Conditions**

Temperature:	24.5 ° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.Xu
Supervised by:	Jayden.Zhuo

### A.1 Maximum Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	0.768	30	PASS
GFSK	MCH	0.644	30	PASS
	HCH	0.488	30	PASS
	LCH	0.518	21	PASS
π/4DQPSK	MCH	0.486	21	PASS
	НСН	0.270	21	PASS



-50.0

-60.0

<u>Auto</u>

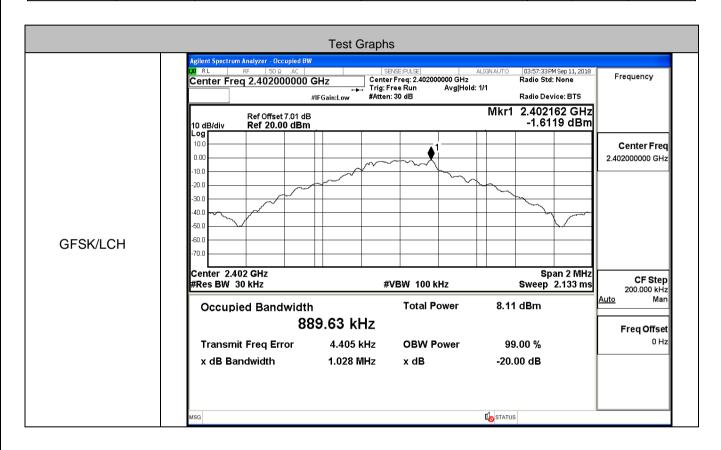
Man

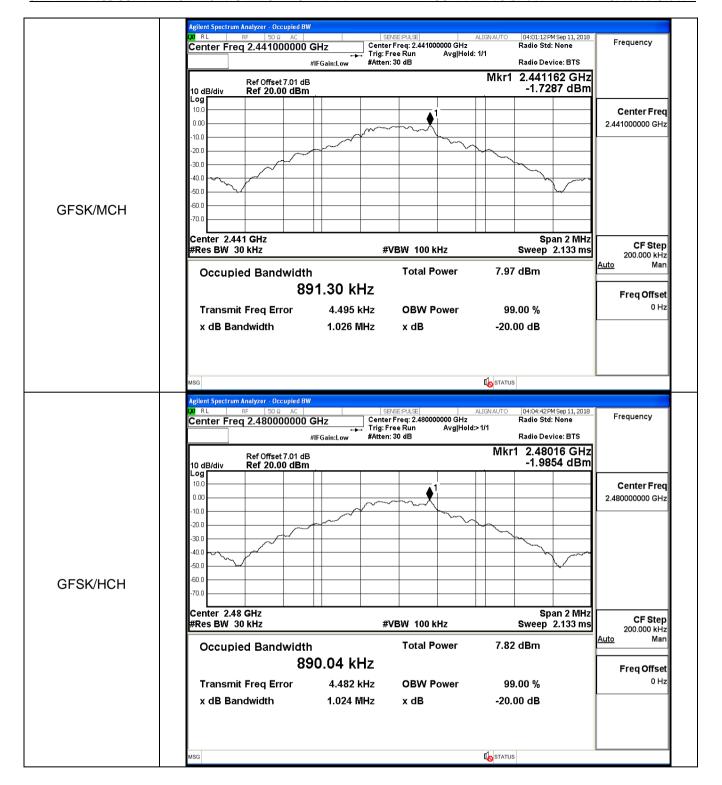
Freq Offset

CF Step 500.000 kHz -40.0 <u>Auto</u> Man -50.0 Freq Offset -60.0 0 Hz Center 2.480000 GHz #Res BW 3.0 MHz Span 5.000 MHz Sweep 1.067 ms (8001 pts) **#VBW 8.0 MHz** STATUS

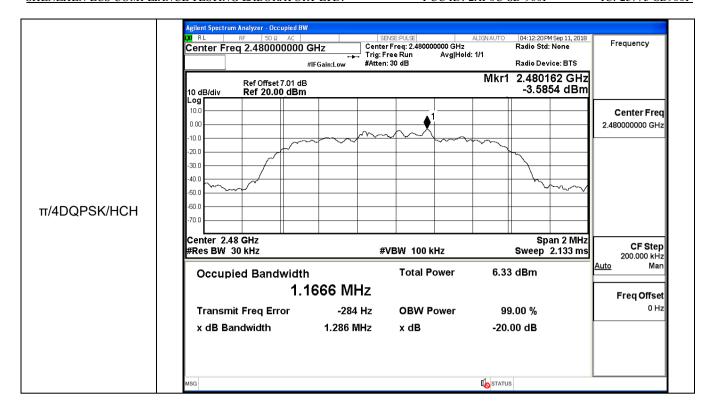
### A.2 99% and 20dB Bandwidth

Mode	Channel.	99% Bandwidth [MHz]	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.88963	1.028	Not Specified	PASS
GFSK	MCH	0.89130	1.026	Not Specified	PASS
	НСН	0.89004	1.024	Not Specified	PASS
	LCH	1.1678	1.288	Not Specified	PASS
π/4DQPSK	MCH	1.1679	1.287	Not Specified	PASS
	НСН	1.1666	1.286	Not Specified	PASS



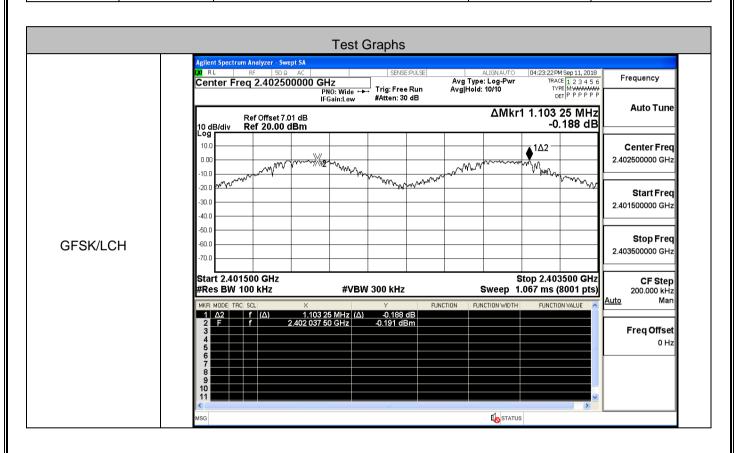


CF Step 200.000 kHz Auto 6.49 dBm Occupied Bandwidth **Total Power** 1.1679 MHz Freq Offset 0 Hz Transmit Freq Error 0 Hz **OBW Power** 99.00 % -20.00 dB x dB Bandwidth 1.287 MHz x dB STATUS



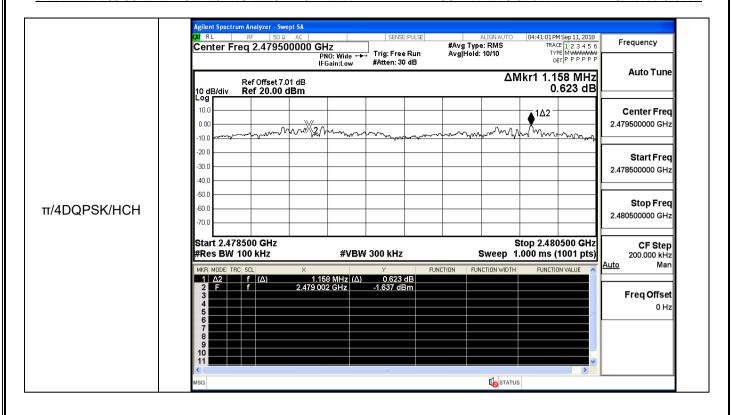
## **A.3 Carrier Frequency Separation**

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	1.103	0.685	PASS
GFSK	MCH	1.144	0.685	PASS
	HCH	1.076	0.685	PASS
	LCH	1.156	0.859	PASS
π/4DQPSK	MCH	0.994	0.859	PASS
	НСН	1.158	0.859	PASS



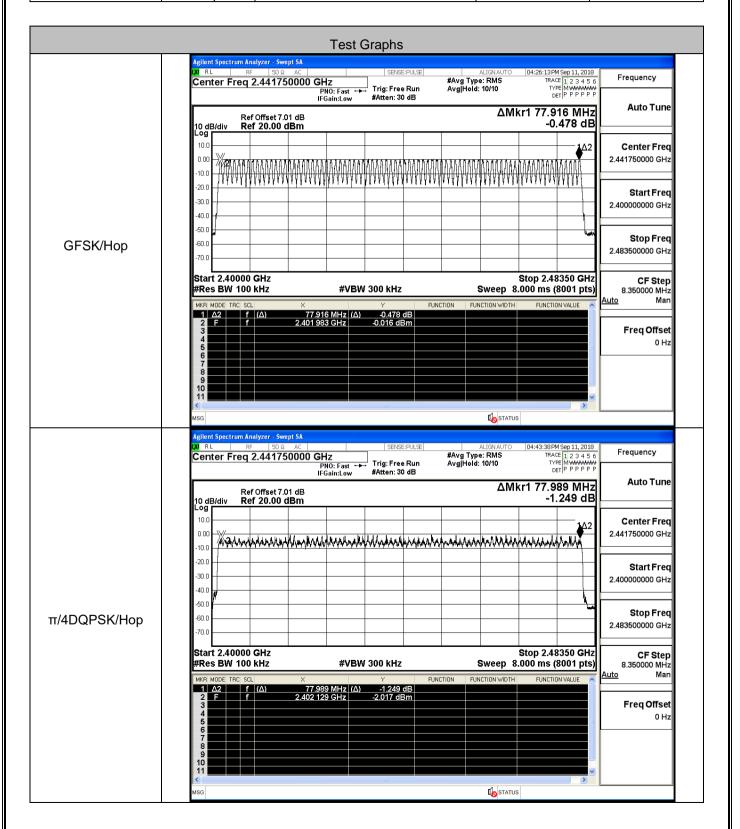
STATUS

STATUS



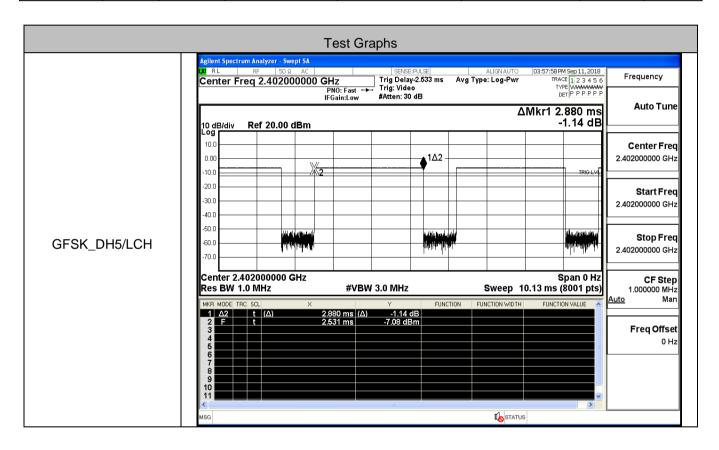
### A.4 Hopping Channel Number

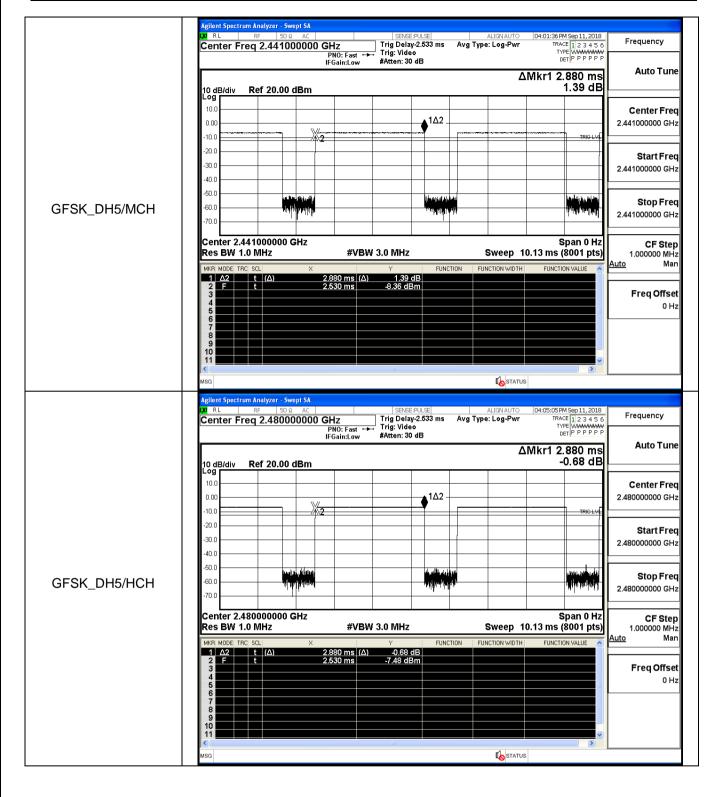
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS



## A.5 Dwell Time

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.88	106.7	0.307	0.4	PASS
GFSK	DH5	МСН	2.88	106.7	0.307	0.4	PASS
	DH5	НСН	2.88	106.7	0.307	0.4	PASS
	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	МСН	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88	106.7	0.307	0.4	PASS





FUNCTION

-1.43 dB -7.94 dBm

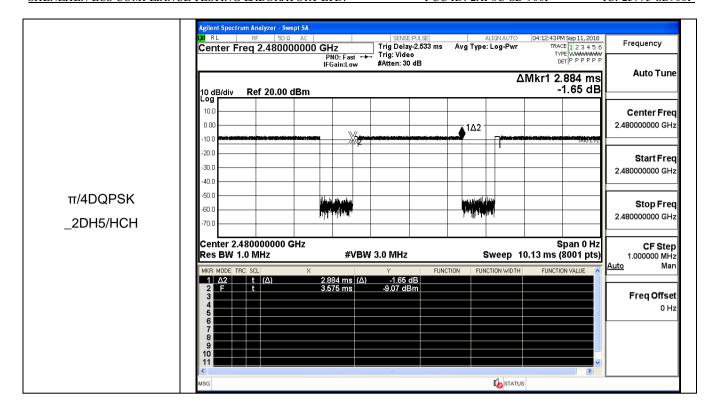
1 Δ2

FUNCTION WIDTH

STATUS

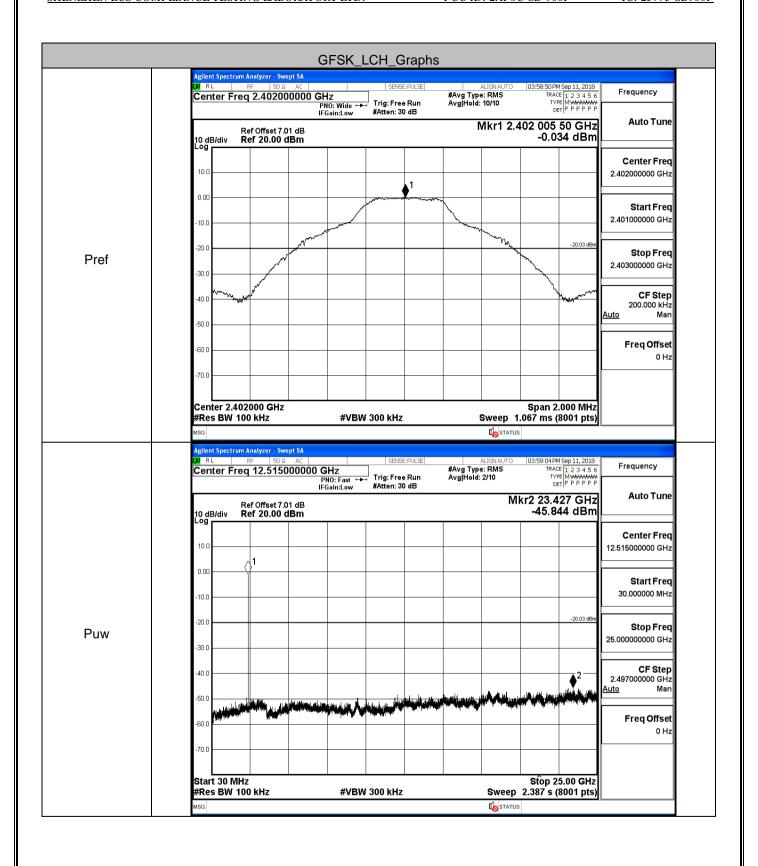
FUNCTION VALUE

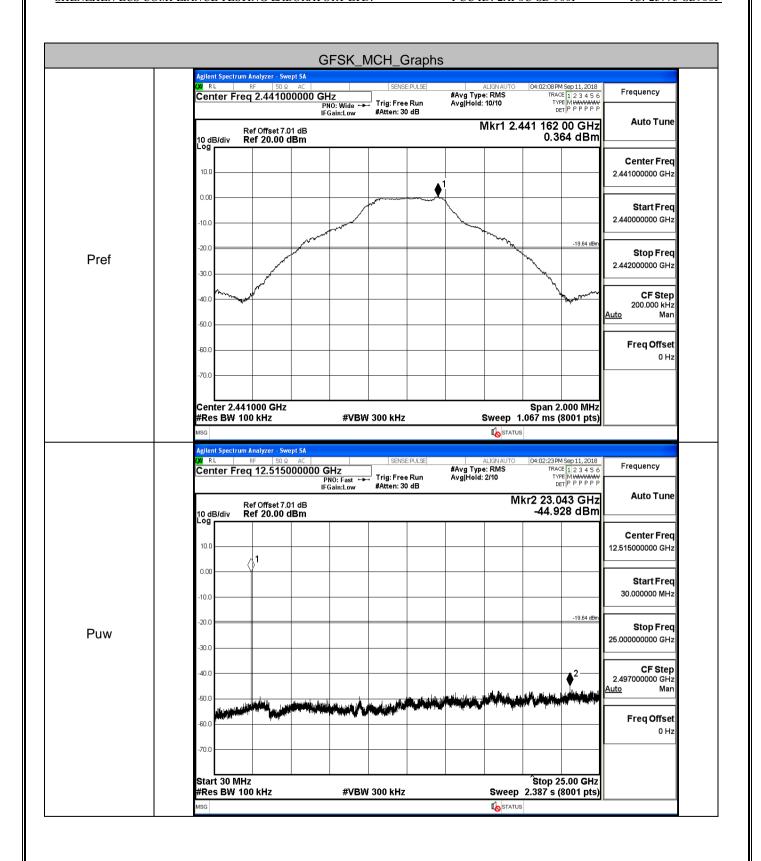
Freq Offset

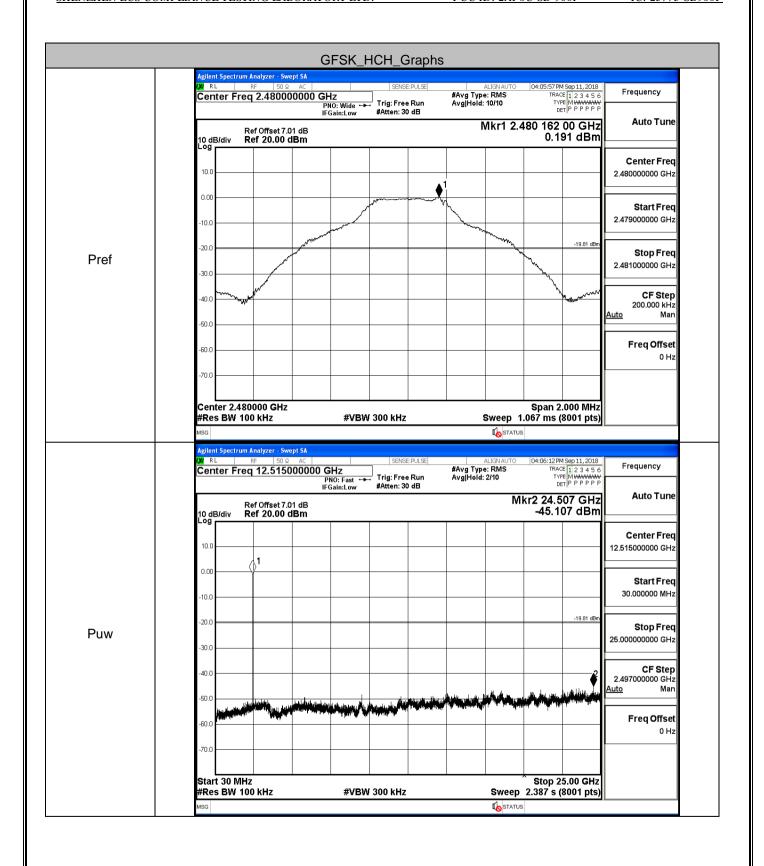


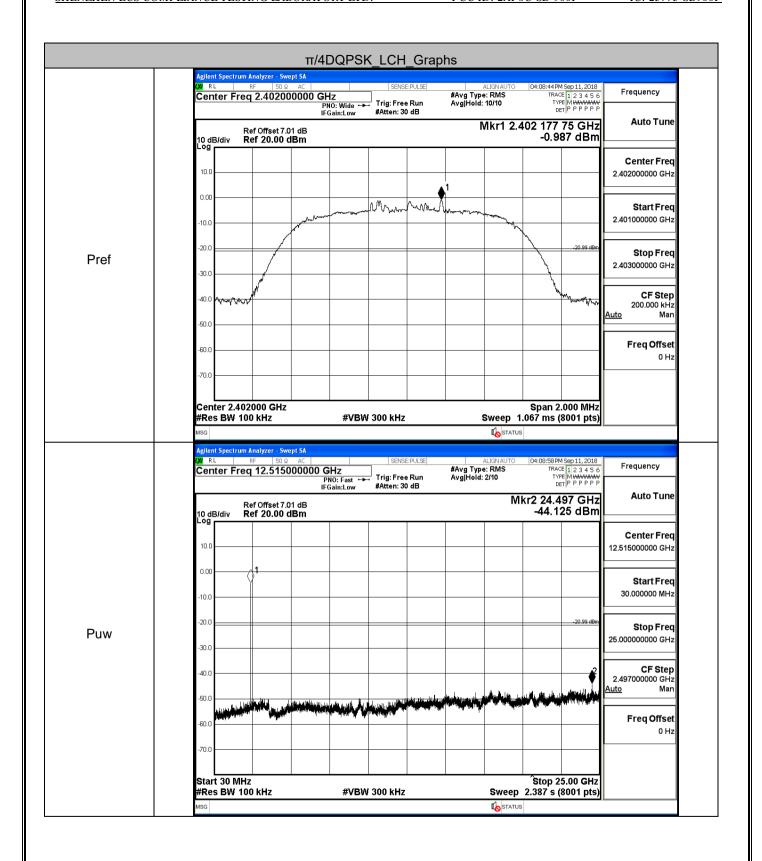
# A.6 RF Conducted Spurious Emissions

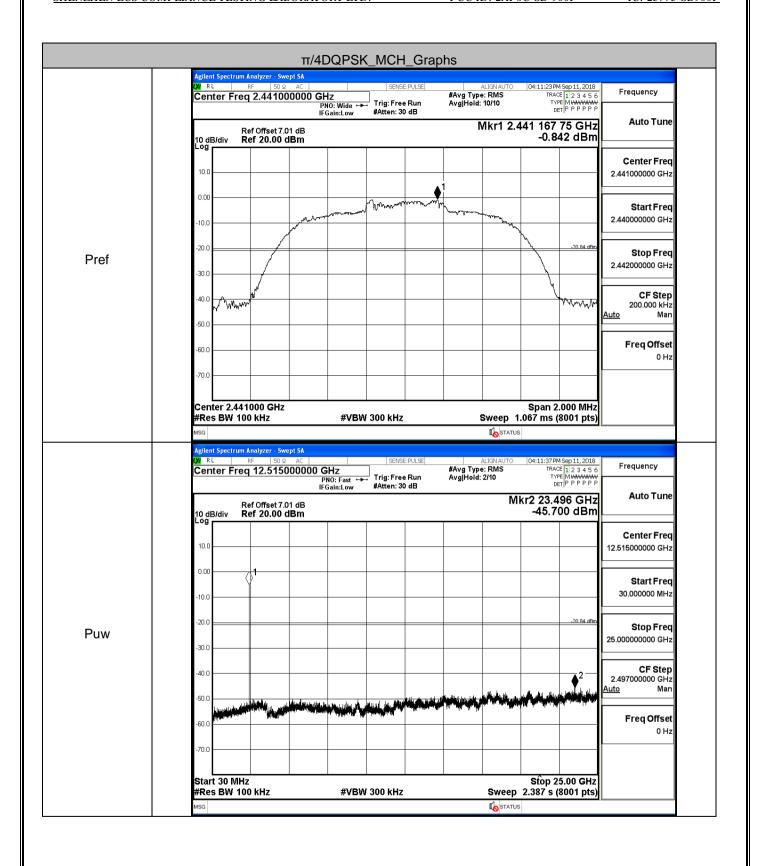
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	-0.034	-45.844	-20.034	PASS
GFSK	MCH	0.364	-44.928	-19.636	PASS
	HCH	0.191	-45.107	-19.809	PASS
π/4DQPSK	LCH	-0.987	-44.125	-20.987	PASS
	MCH	-0.842	-45.700	-20.842	PASS
	HCH	-0.935	-45.800	-20.935	PASS

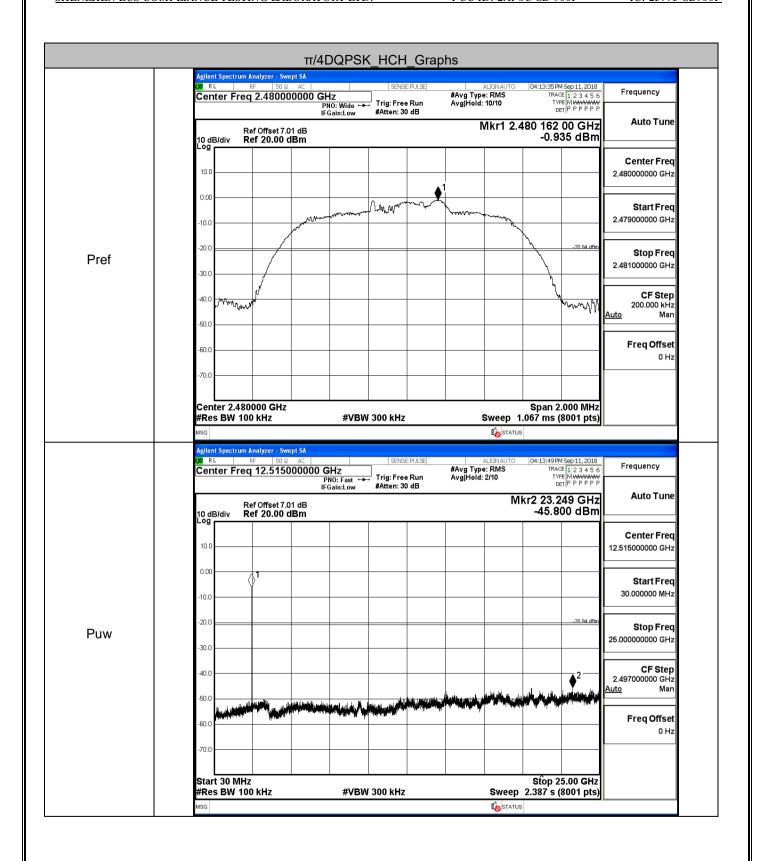






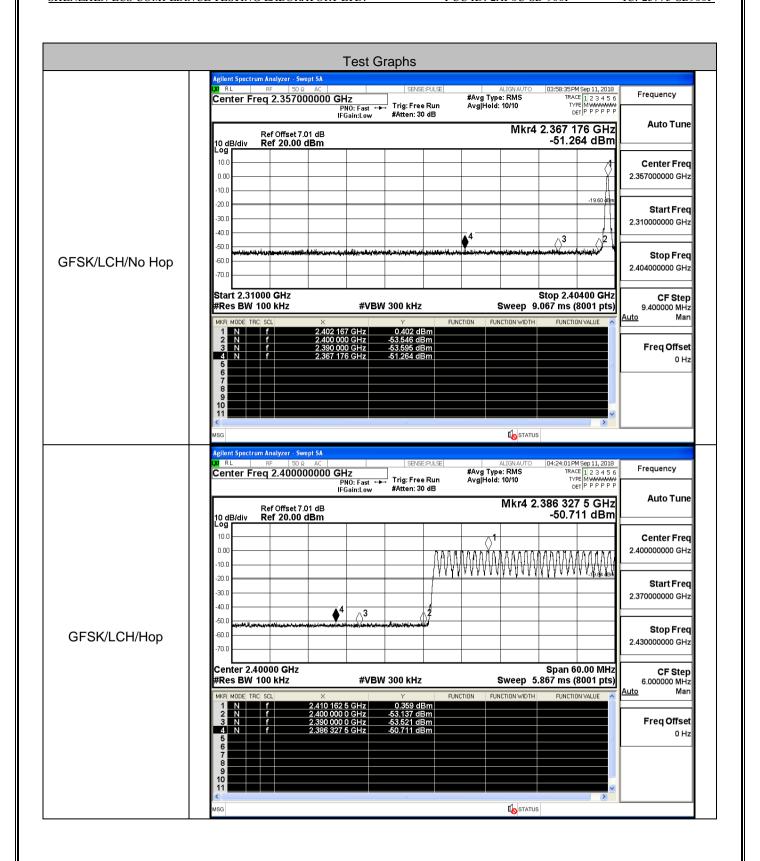


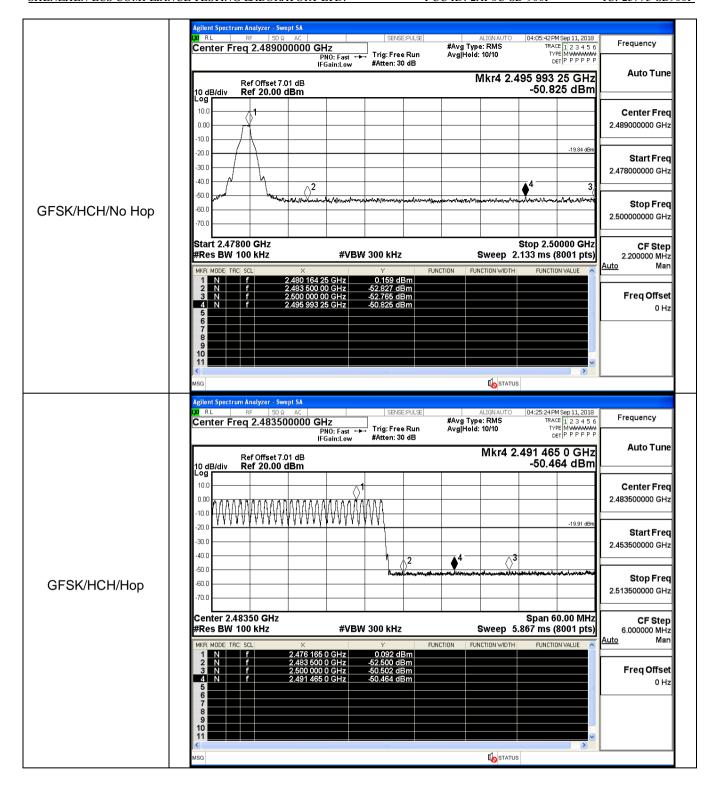


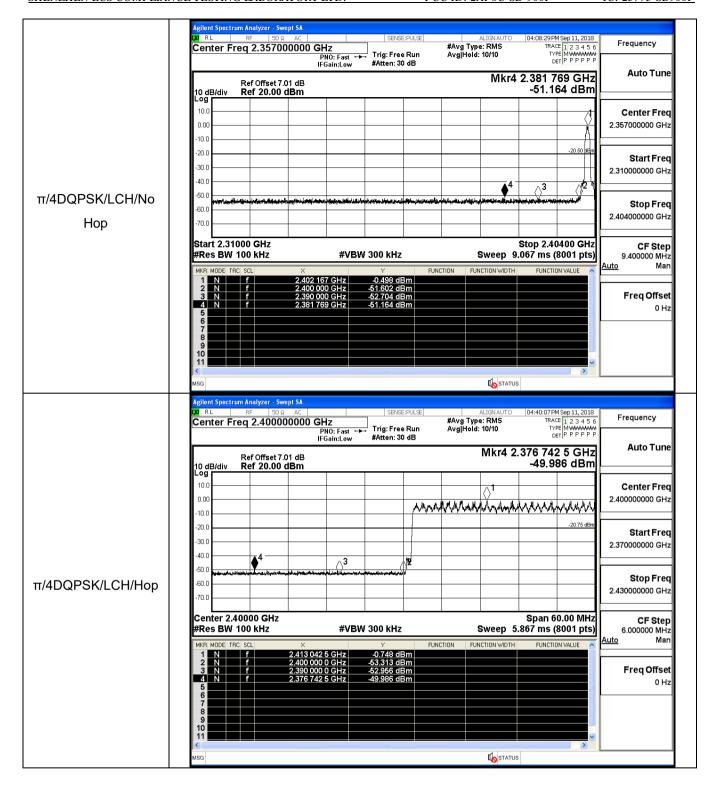


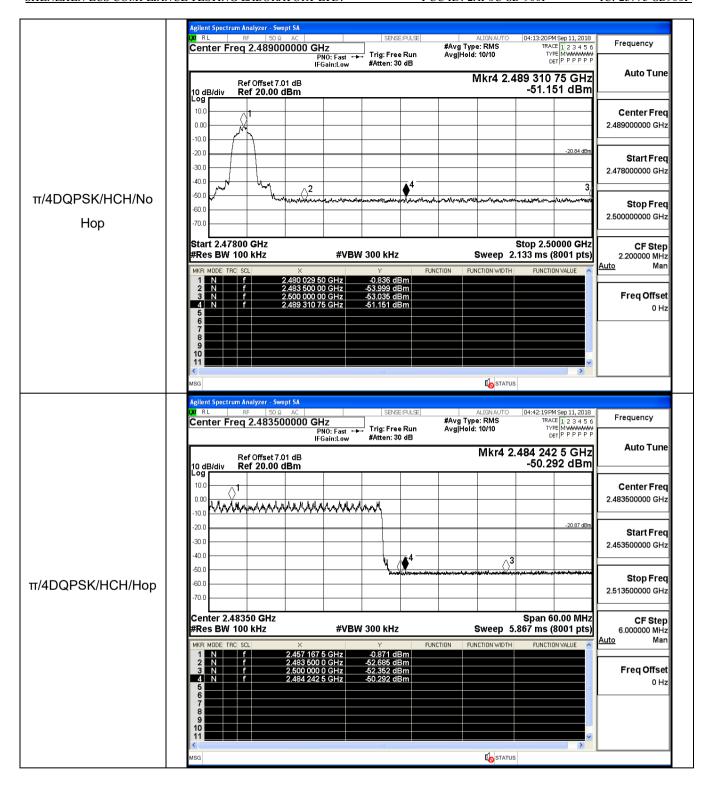
## A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
		CH 2402	0.402	Off	-51.264	-19.6	PASS
0=014	LCH		0.359	On	-50.711	-19.64	PASS
GFSK			0.159	Off	-50.825	-19.84	PASS
	HCH	2480	0.092	On	-50.464	-19.91	PASS
		LCH 2402	-0.498	Off	-51.164	-20.5	PASS
π/4DQPSK	LCH		-0.748	On	-49.986	-20.75	PASS
			-0.836	Off	-51.151	-20.84	PASS
	HCH	2480	-0.871	On	-50.292	-20.87	PASS



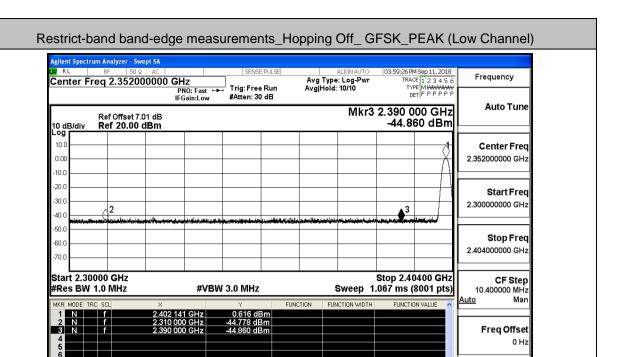






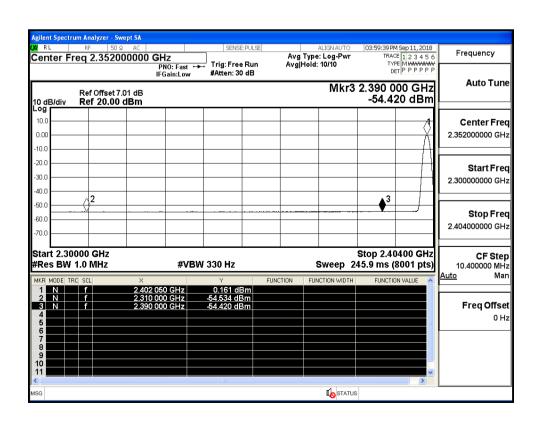
# A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-44.78	2.0	0	52.48	PEAK	74	PASS
	Off	2310.0	-54.53	2.0	0	42.72	AV	54	PASS
	Off	2390.0	-44.86	2.0	0	52.40	PEAK	74	PASS
	Off	2390.0	-54.42	2.0	0	42.84	AV	54	PASS
GFSK	Off	2483.5	-44.48	2.0	0	52.78	PEAK	74	PASS
	Off	2483.5	-54.07	2.0	0	43.19	AV	54	PASS
	Off	2500.0	-44.31	2.0	0	52.95	PEAK	74	PASS
	Off	2500.0	-53.96	2.0	0	43.29	AV	54	PASS
	Off	2310.0	-45.71	2.0	0	51.55	PEAK	74	PASS
	Off	2310.0	-54.57	2.0	0	42.69	AV	54	PASS
	Off	2390.0	-44.94	2.0	0	52.32	PEAK	74	PASS
	Off	2390.0	-54.30	2.0	0	42.96	AV	54	PASS
π/4DQPSK	Off	2483.5	-43.47	2.0	0	53.79	PEAK	74	PASS
	Off	2483.5	-53.99	2.0	0	43.27	AV	54	PASS
	Off	2500.0	-44.08	2.0	0	53.18	PEAK	74	PASS
	Off	2500.0	-54.05	2.0	0	43.21	AV	54	PASS

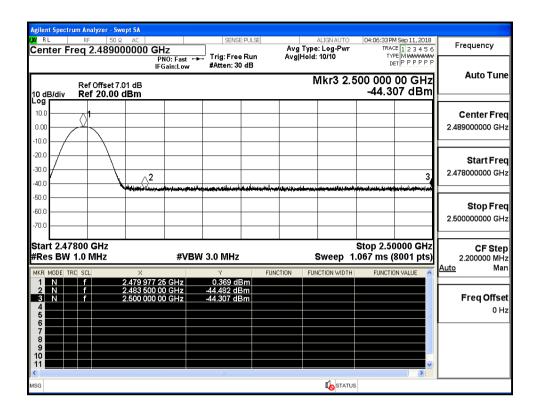


### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (Low Channel)

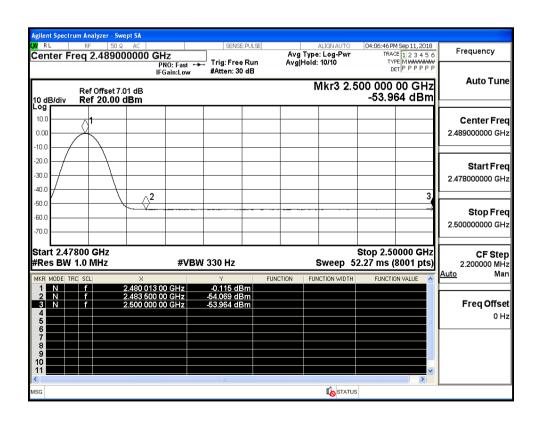
STATUS



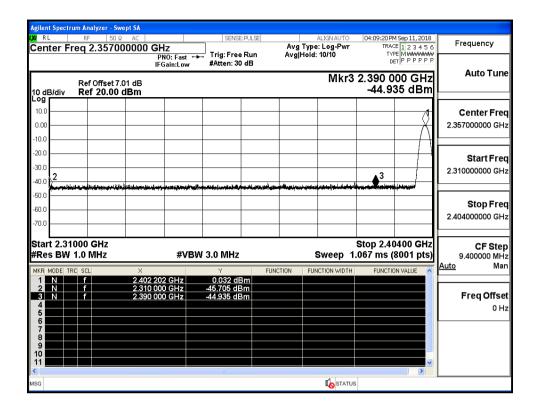
### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_PEAK (High Channel)



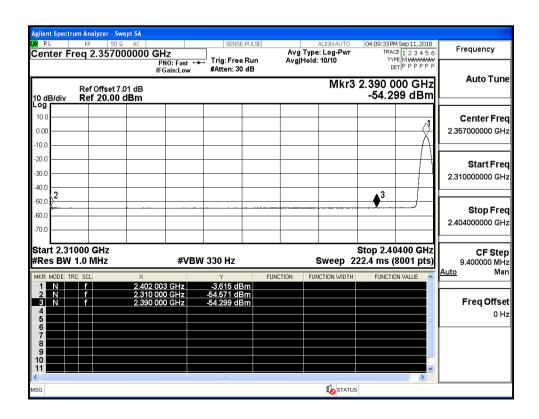
### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (High Channel)



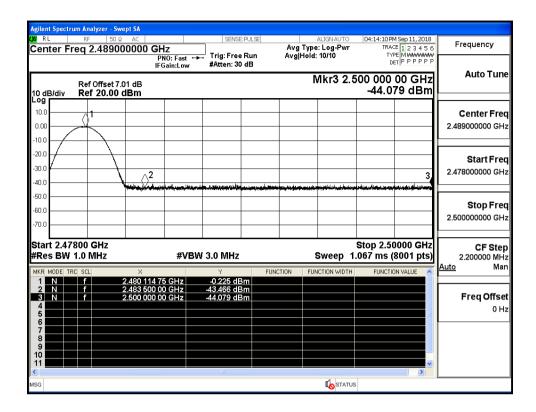
### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (Low Channel)



### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (Low Channel)



### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (High Channel)



### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (High Channel)

