# Appendix A

# RF Test Data for BT V2.1 (BDR/EDR) (Conducted Measurement)

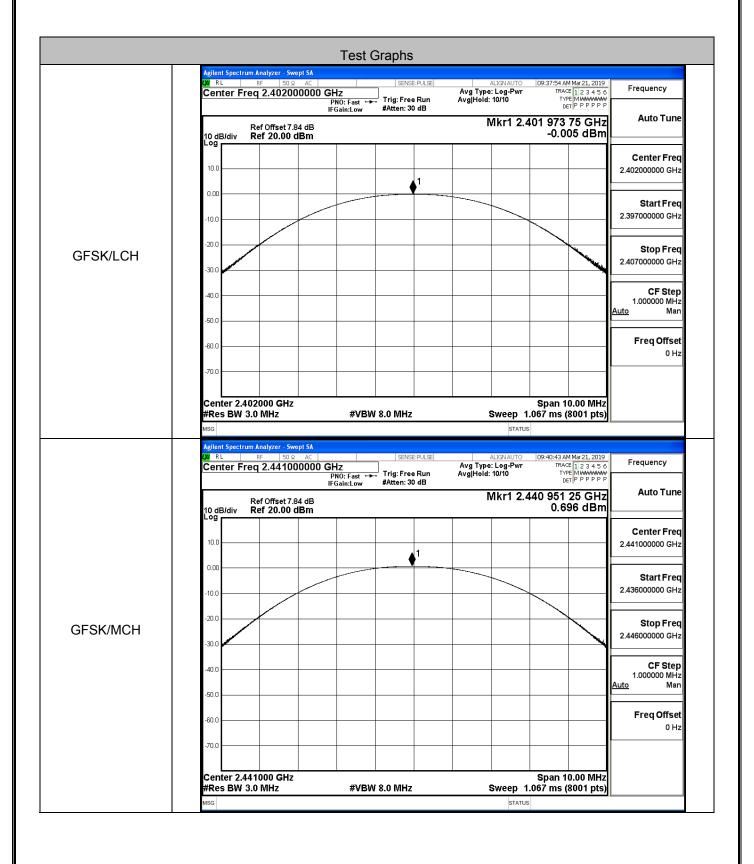
Product Name: 2G Mobilephone
Trade Mark: GOL
Test Model: X

### **Environmental Conditions**

Temperature:	23.8 °C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.Xu
Supervised by:	Tom.Liu

## A.1 Maximum Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	-0.005	21	PASS
GFSK	MCH	0.696	21	PASS
	HCH	0.371	21	PASS
	LCH	-0.549	21	PASS
π/4DQPSK	MCH	0.026	21	PASS
	НСН	-0.458	21	PASS
	LCH	-0.476	21	PASS
8DPSK	DPSK MCH 0.164		21	PASS
	HCH	-0.297	21	PASS



#VBW 8.0 MHz

-70.0

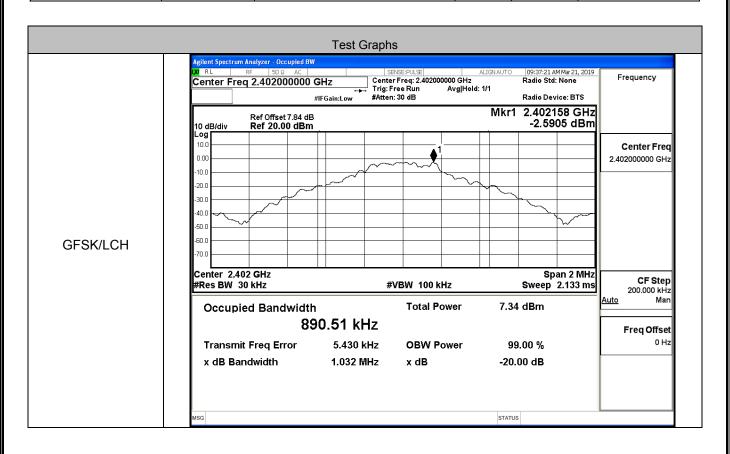
Center 2.480000 GHz #Res BW 3.0 MHz 0 Hz

Span 10.00 MHz Sweep 1.067 ms (8001 pts)

STATUS

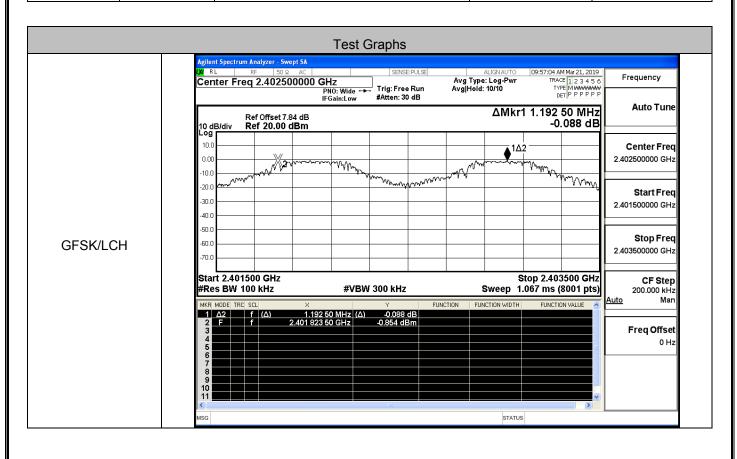
### A.2 20dB Bandwidth

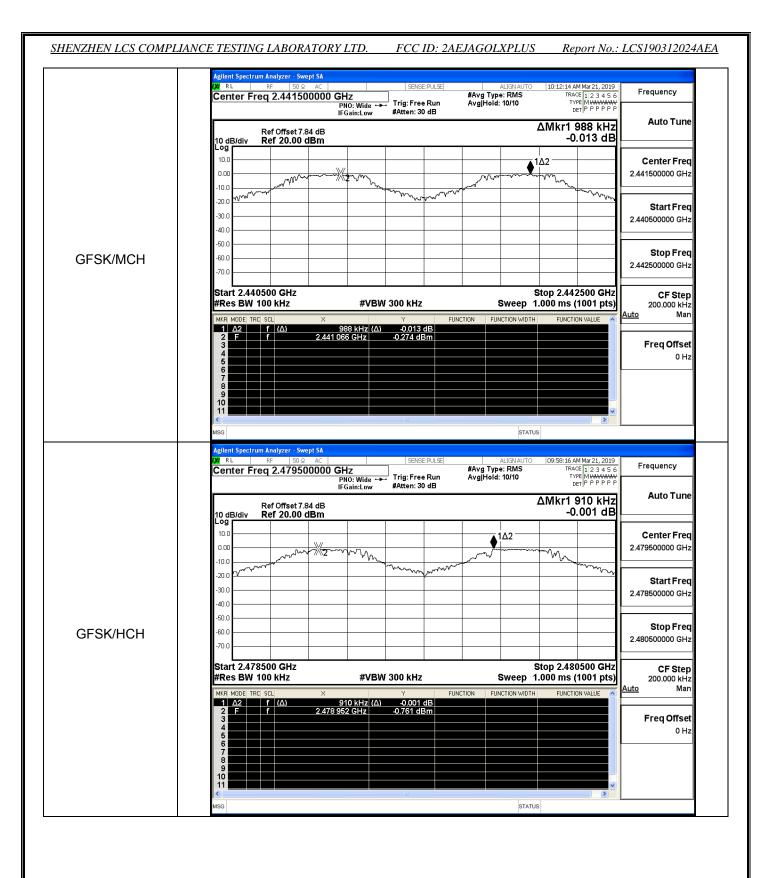
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	1.032	Not Specified	PASS
GFSK	MCH	0.9681	Not Specified	PASS
	НСН	1.035	Not Specified	PASS
	LCH	1.295	Not Specified	PASS
π/4DQPSK	MCH	1.309	Not Specified	PASS
	НСН	1.305	Not Specified	PASS
	LCH	1.297	Not Specified	PASS
8DPSK	MCH	1.305	Not Specified	PASS
	НСН	1.298	Not Specified	PASS

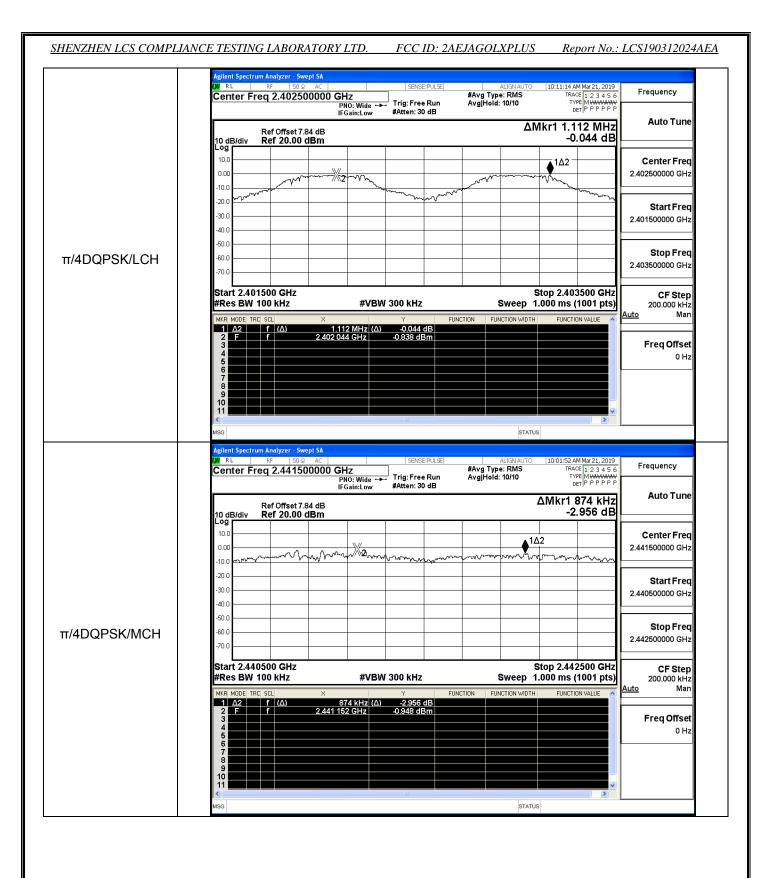


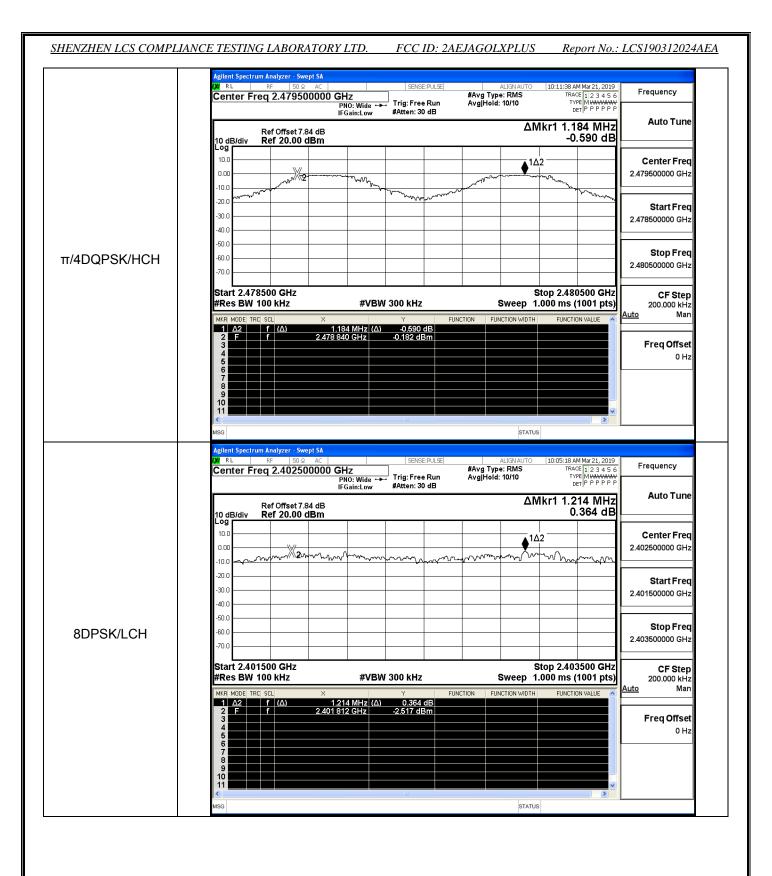
### A.3 Carrier Frequency Separation

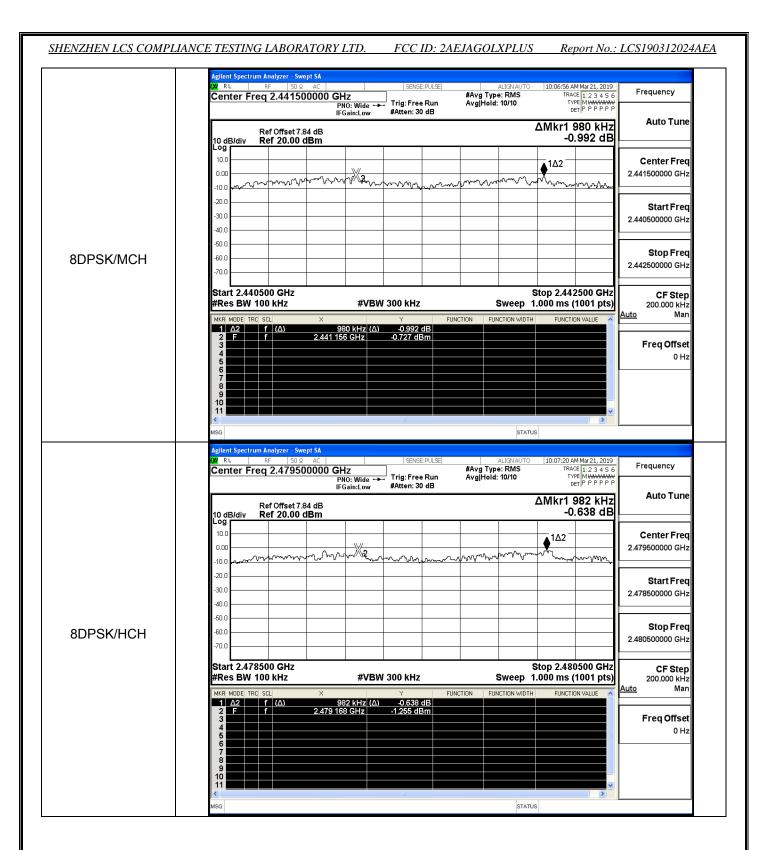
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	1.193	0.690	PASS
GFSK	MCH	0.988	0.690	PASS
	HCH	0.910	0.690	PASS
	LCH	1.112	0.873	PASS
π/4DQPSK	MCH	0.874	0.873	PASS
	HCH	1.184	0.873	PASS
	LCH	1.214	0.870	PASS
8DPSK	MCH	0.980	0.870	PASS
	HCH	0.982	0.870	PASS





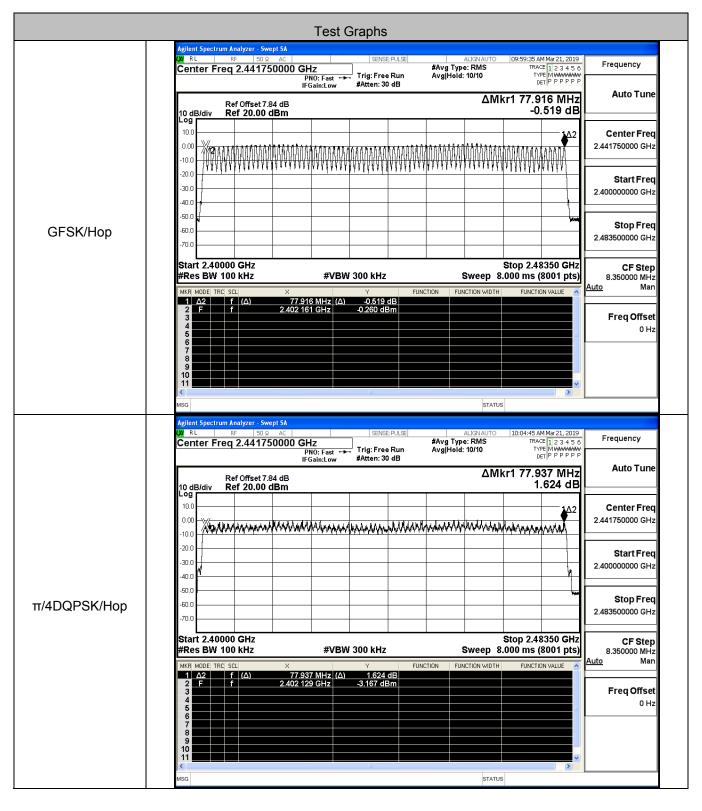






### A.4 Hopping Channel Number

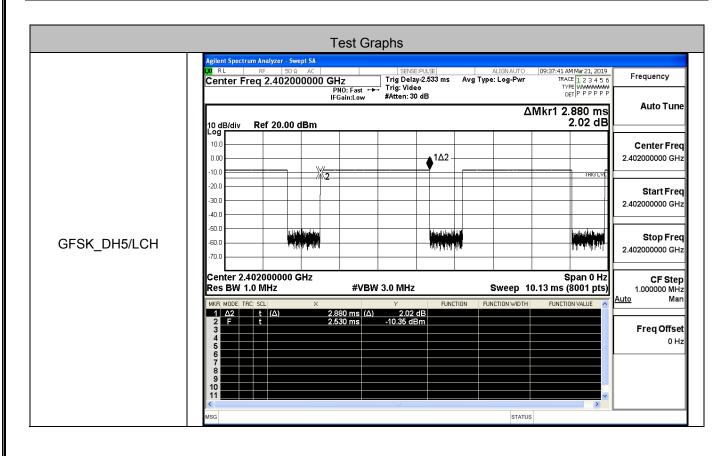
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS



#### SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AEJAGOLXPLUS Report No.: LCS190312024AEA Agilent Spectrum Analyzer - Swept SA 10:09:49 AM Mar 21, 2019 TRACE 1 2 3 4 5 6 TYPE M WWWWWW DET P P P P P P #Avg Type: RMS Avg|Hold: 10/10 Frequency Trig: Free Run #Atten: 30 dB Auto Tune ΔMkr1 77.979 MHz Ref Offset 7.84 dB Ref 20.00 dBm 0.941 dB 10 dB/div Log 10.0 Center Freq 2.441750000 GHz 0.00 -10.0 -20.0 Start Freq -30.0 2.400000000 GHz -40.0 -50.0 Stop Freq 8DPSK/Hop -60.0 2.483500000 GHz Start 2.40000 GHz Stop 2.48350 GHz CF Step 8.350000 MHz Sweep 8.000 ms (8001 pts) #Res BW 100 kHz **#VBW** 300 kHz <u>Auto</u> FUNCTION FUNCTION WIDTH 77.979 MHz (Δ) 0.941 dB 2.402 181 GHz -2.117 dBm Freq Offset 0 Hz STATUS

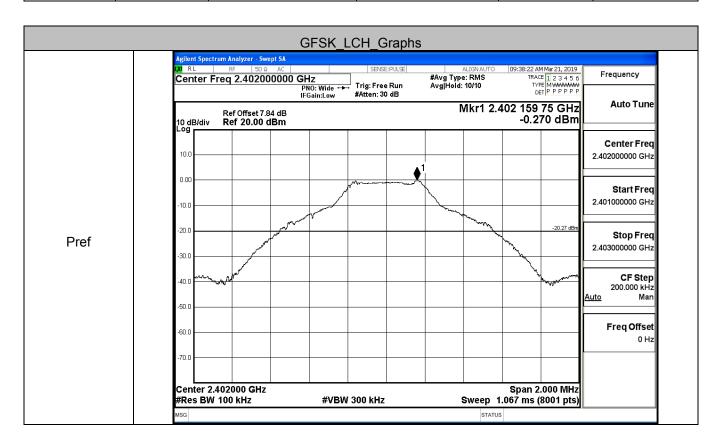
### A.5 Dwell Time

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	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88	106.7	0.307	0.4	PASS
	3DH5	LCH	2.88	106.7	0.308	0.4	PASS
8DPSK	3DH5	MCH	2.88	106.7	0.308	0.4	PASS
	3DH5	HCH	2.88	106.7	0.308	0.4	PASS



### A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	-0.27	-44.638	-20.270	PASS
GFSK	MCH	-0.011	-44.530	-20.011	PASS
	HCH	0.148	-44.436	-19.852	PASS
	LCH	-1.552	-44.754	-21.552	PASS
π/4DQPSK	MCH	-0.704	-45.234	-20.704	PASS
	HCH	-1.238	-44.907	-21.238	PASS
	LCH	-2.033	-44.756	-22.033	PASS
8DPSK	MCH	-0.706	-44.263	-20.706	PASS
	HCH	-1.215	-44.773	-21.215	PASS



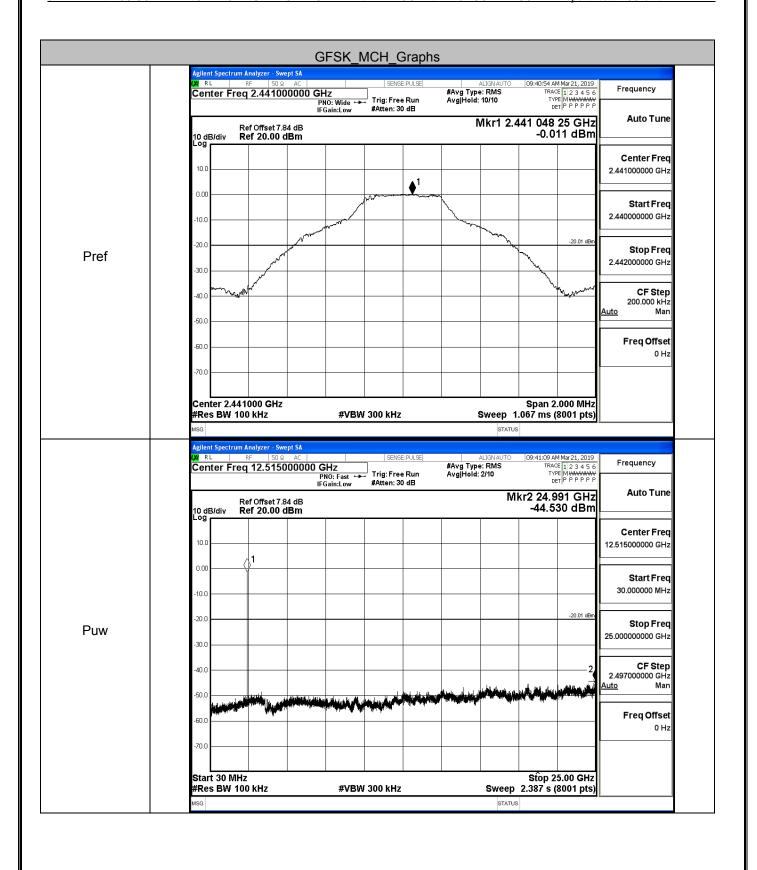
**#VBW** 300 kHz

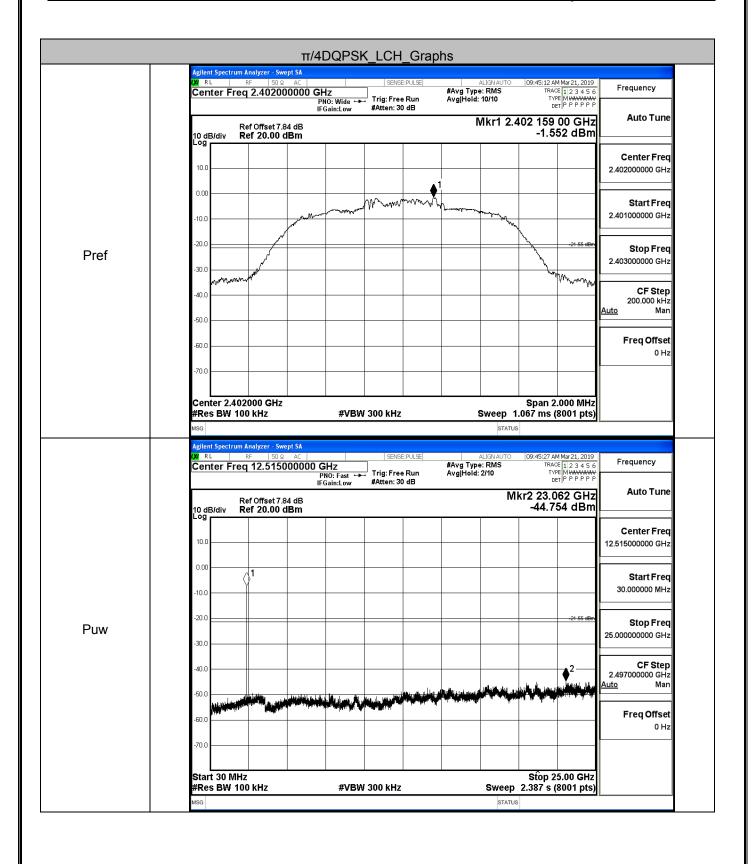
-70.0

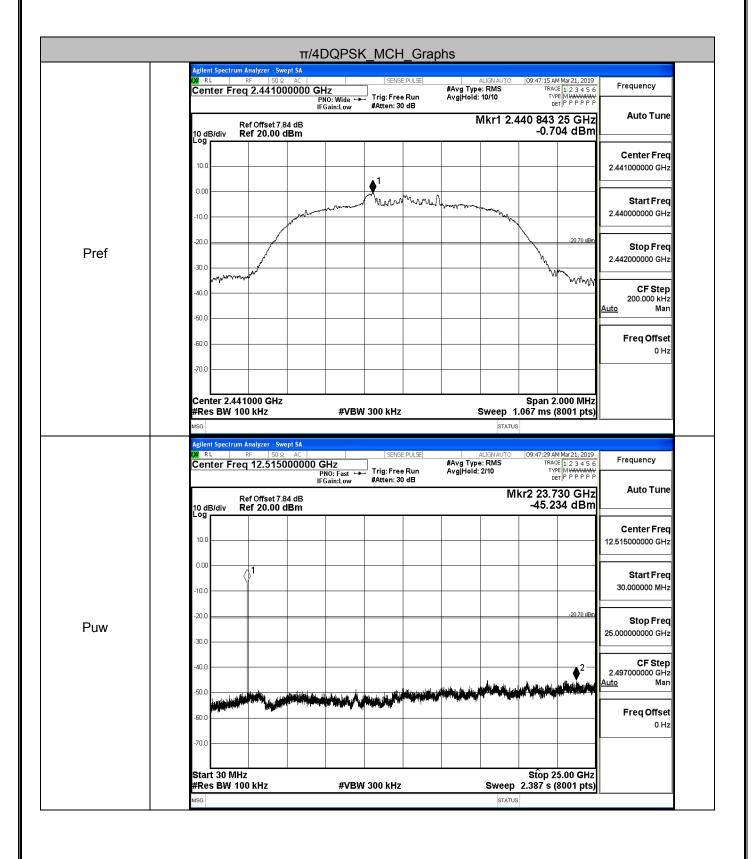
Start 30 MHz #Res BW 100 kHz 0 Hz

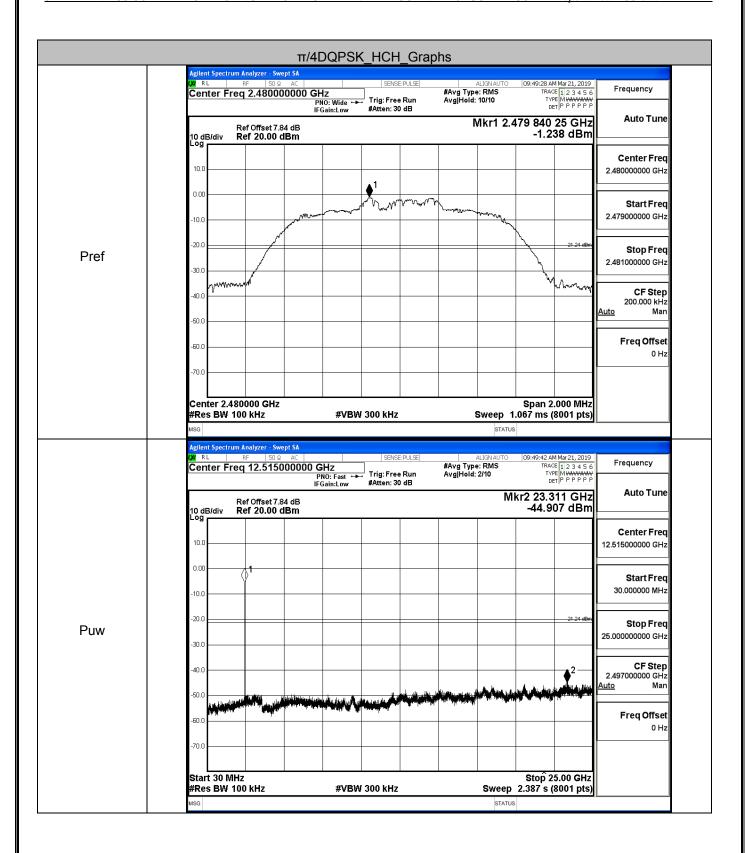
Stop 25.00 GHz Sweep 2.387 s (8001 pts)

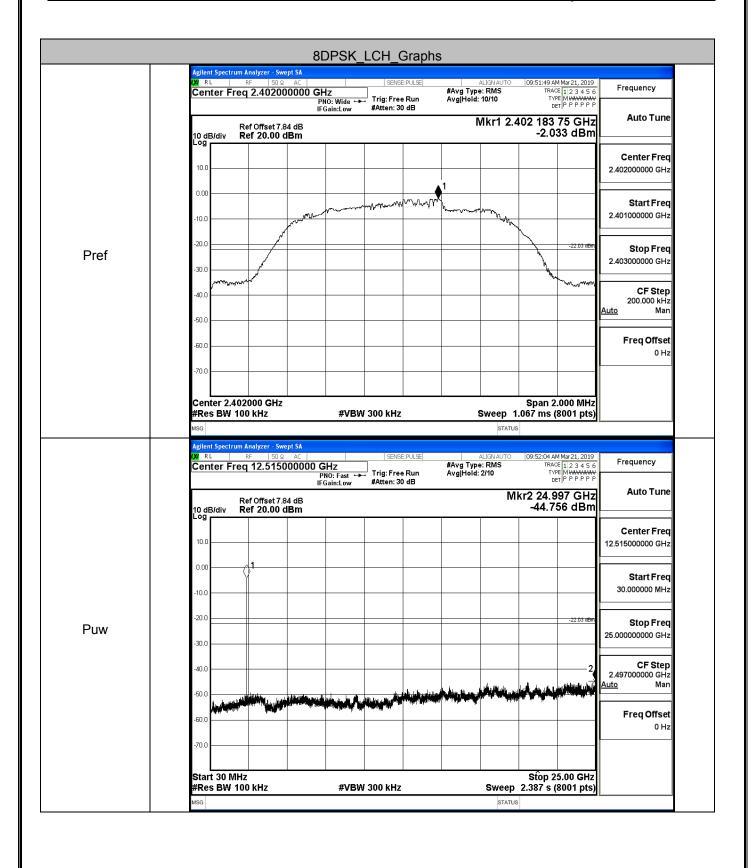
STATUS

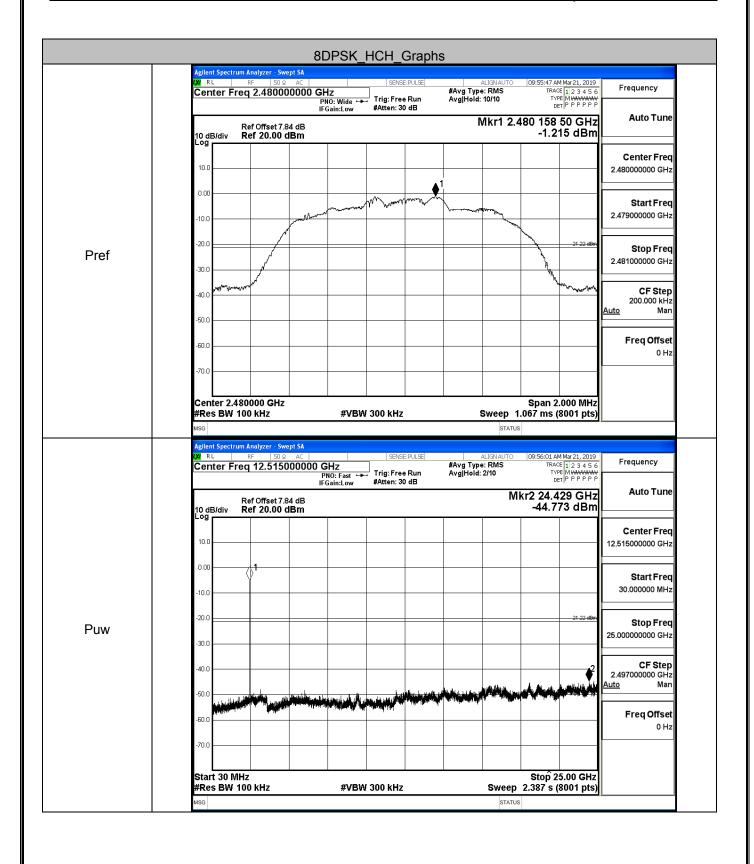






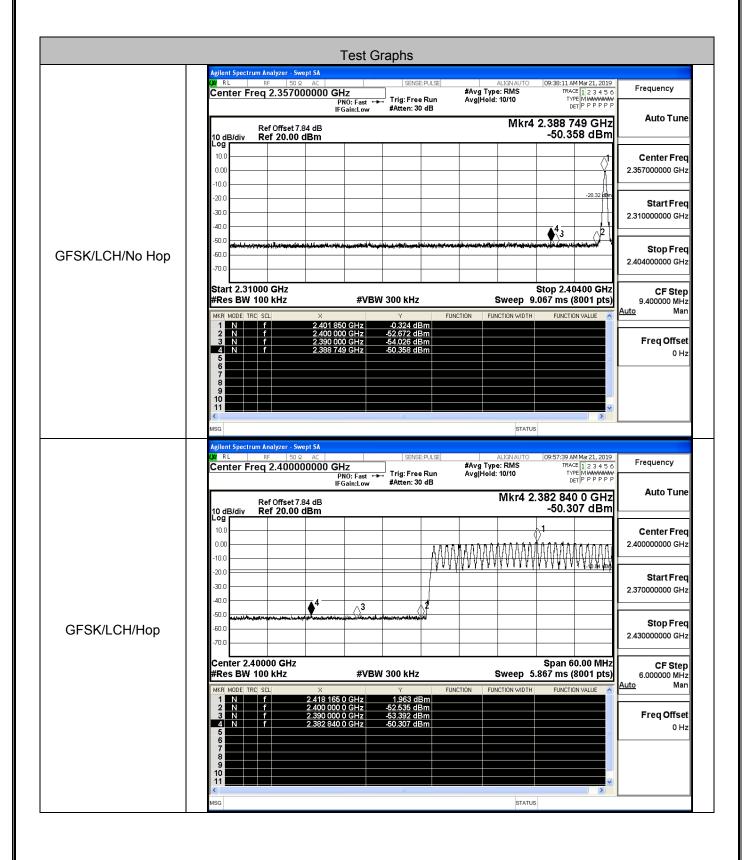






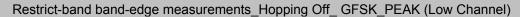
## A.7 Band-edge for RF Conducted Emissions

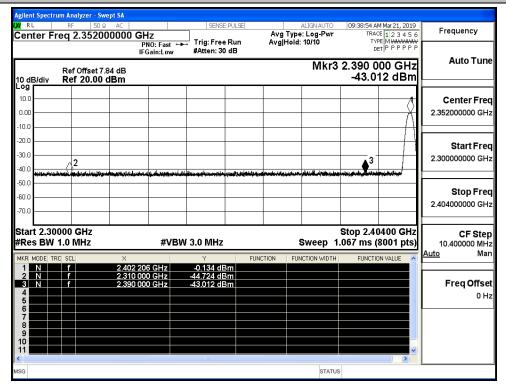
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict				
			-0.324	Off	-50.358	-20.32	PASS				
2=21/	LCH	2402	1.963	On	-50.307	-18.04	PASS				
GFSK	НСН	2480	0.181	Off	-50.001	-19.82	PASS				
			2.209	On	-49.638	-17.79	PASS				
	LCH						-1.430	Off	-50.636	-21.43	PASS
		2402	0.601	On	-49.370	-19.4	PASS				
π/4DQPSK	нсн	ICH 2480	-1.221	Off	-49.399	-21.22	PASS				
			0.836	On	-49.435	-19.16	PASS				
			-1.376	Off	-50.058	-21.38	PASS				
8DPSK	LCH	2402	0.408	On	-49.289	-19.59	PASS				
			-1.112	Off	-49.419	-21.11	PASS				
	HCH	CH 2480	0.953	On	-49.200	-19.05	PASS				



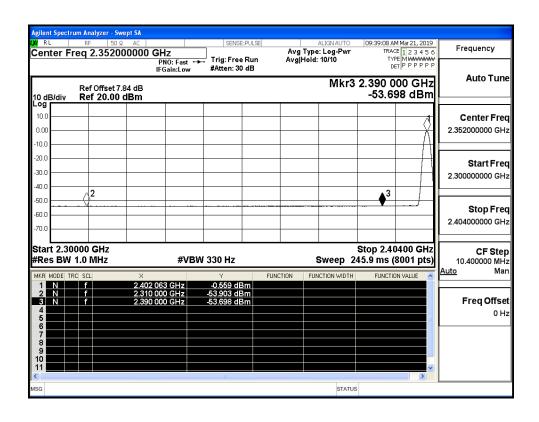
## A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-44.72	2.0	0	52.53	PEAK	74	PASS
	Off	2310.0	-53.90	2.0	0	43.35	AV	54	PASS
	Off	2390.0	-43.01	2.0	0	54.25	PEAK	74	PASS
	Off	2390.0	-53.70	2.0	0	43.56	AV	54	PASS
GFSK	Off	2483.5	-43.71	2.0	0	53.55	PEAK	74	PASS
	Off	2483.5	-53.41	2.0	0	43.85	AV	54	PASS
	Off	2500.0	-42.93	2.0	0	54.33	PEAK	74	PASS
	Off	2500.0	-53.15	2.0	0	44.10	AV	54	PASS
	Off	2310.0	-43.48	2.0	0	53.78	PEAK	74	PASS
	Off	2310.0	-53.85	2.0	0	43.41	AV	54	PASS
	Off	2390.0	-43.74	2.0	0	53.52	PEAK	74	PASS
	Off	2390.0	-53.70	2.0	0	43.56	AV	54	PASS
π/4DQPSK	Off	2483.5	-43.04	2.0	0	54.22	PEAK	74	PASS
	Off	2483.5	-53.26	2.0	0	44.00	AV	54	PASS
	Off	2500.0	-43.82	2.0	0	53.44	PEAK	74	PASS
	Off	2500.0	-53.28	2.0	0	43.98	AV	54	PASS
	Off	2310.0	-44.16	2.0	0	53.10	PEAK	74	PASS
	Off	2310.0	-53.94	2.0	0	43.32	AV	54	PASS
	Off	2390.0	-44.52	2.0	0	52.74	PEAK	74	PASS
	Off	2390.0	-53.64	2.0	0	43.62	AV	54	PASS
8DPSK	Off	2483.5	-43.78	2.0	0	53.48	PEAK	74	PASS
	Off	2483.5	-53.27	2.0	0	43.99	AV	54	PASS
	Off	2500.0	-42.93	2.0	0	54.33	PEAK	74	PASS
	Off	2500.0	-53.28	2.0	0	43.98	AV	54	PASS

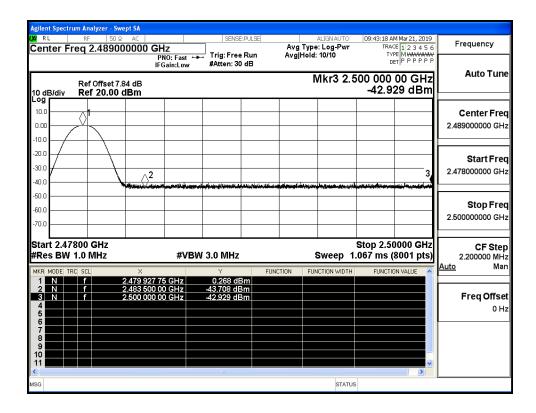




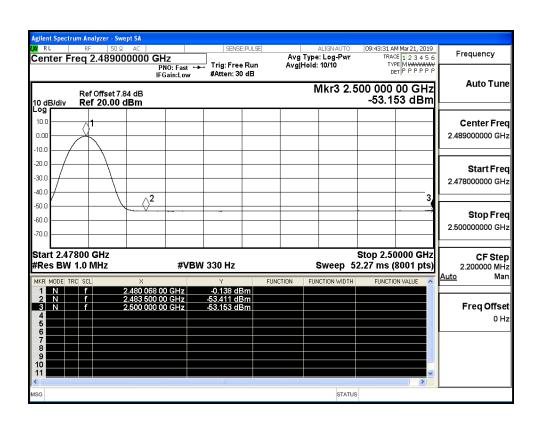
### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (Low Channel)



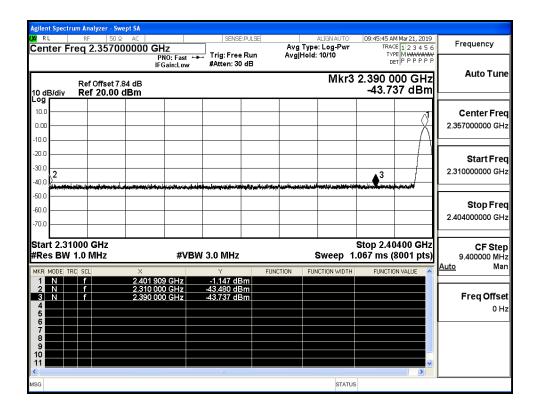
### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_PEAK (High Channel)



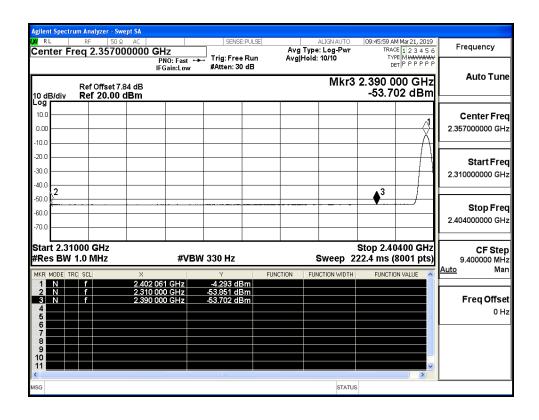
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (High Channel)



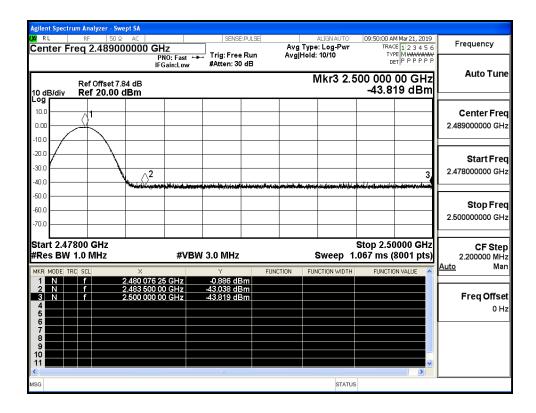
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (Low Channel)



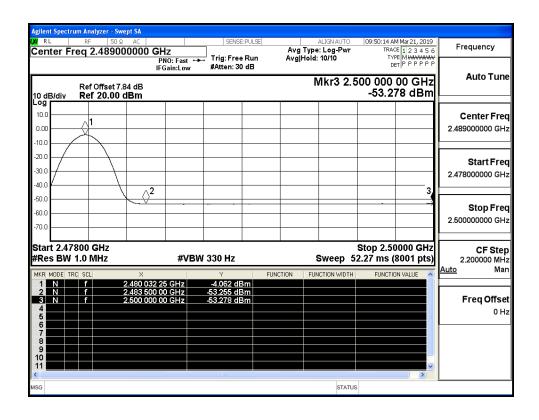
### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (Low Channel)

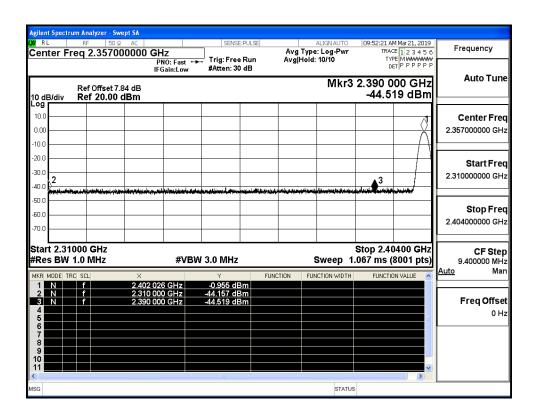


### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (High Channel)

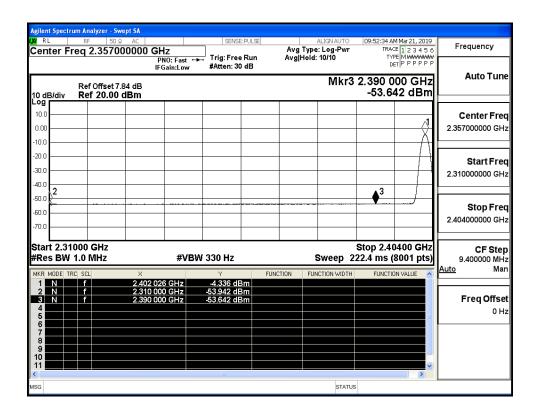


### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (High Channel)

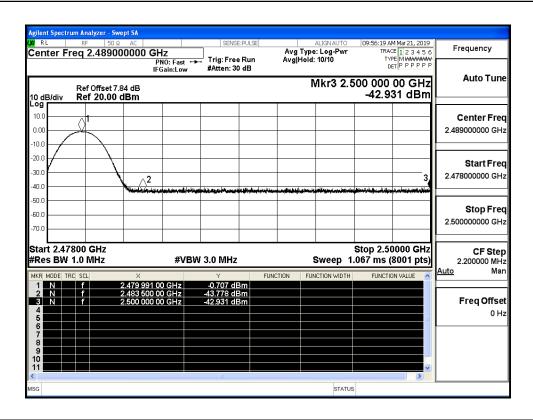




Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_Average (Low Channel)



#### Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_PEAK (High Channel)



### Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_Average (High Channel)

