

## Appendix C

### RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: LTE GSM/WCDMA Smartphone

Trade Mark: DOOGEE

Test Model: X60L

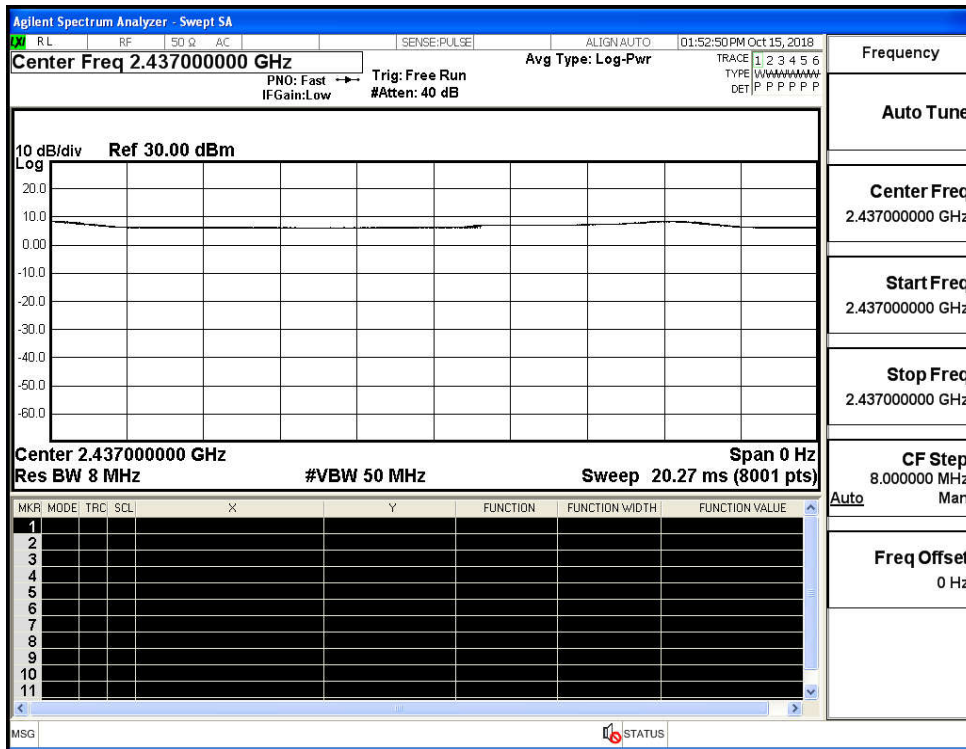
#### Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom.Liu
Supervised by:	Jayden.Zhuo

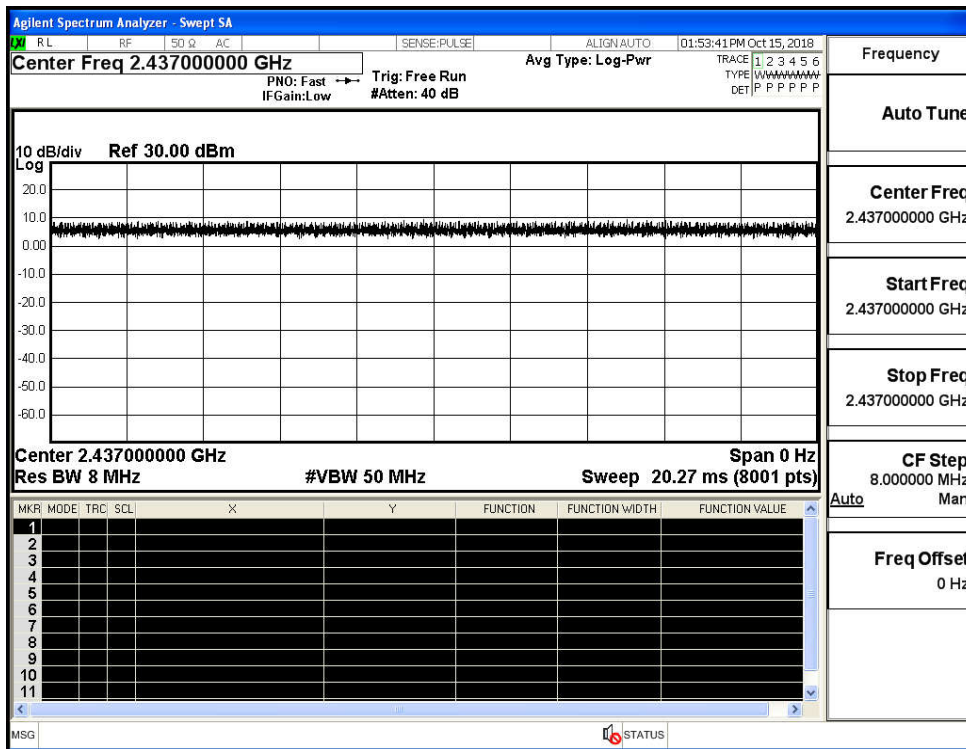
#### C.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS

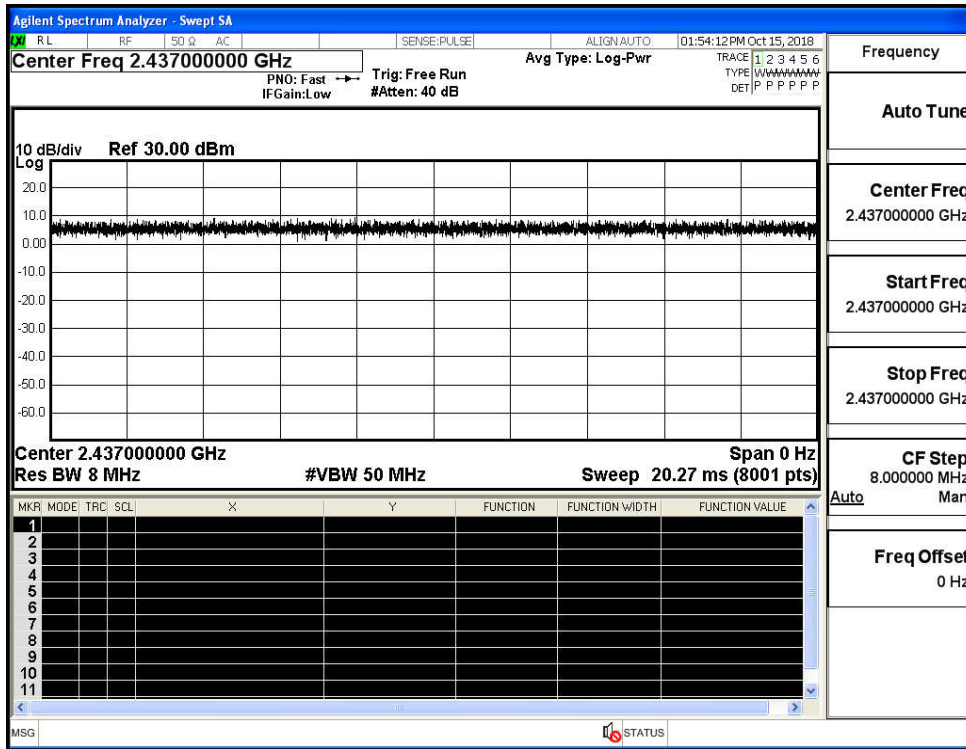
Duty Cycle\_11B\_2437\_Ant1



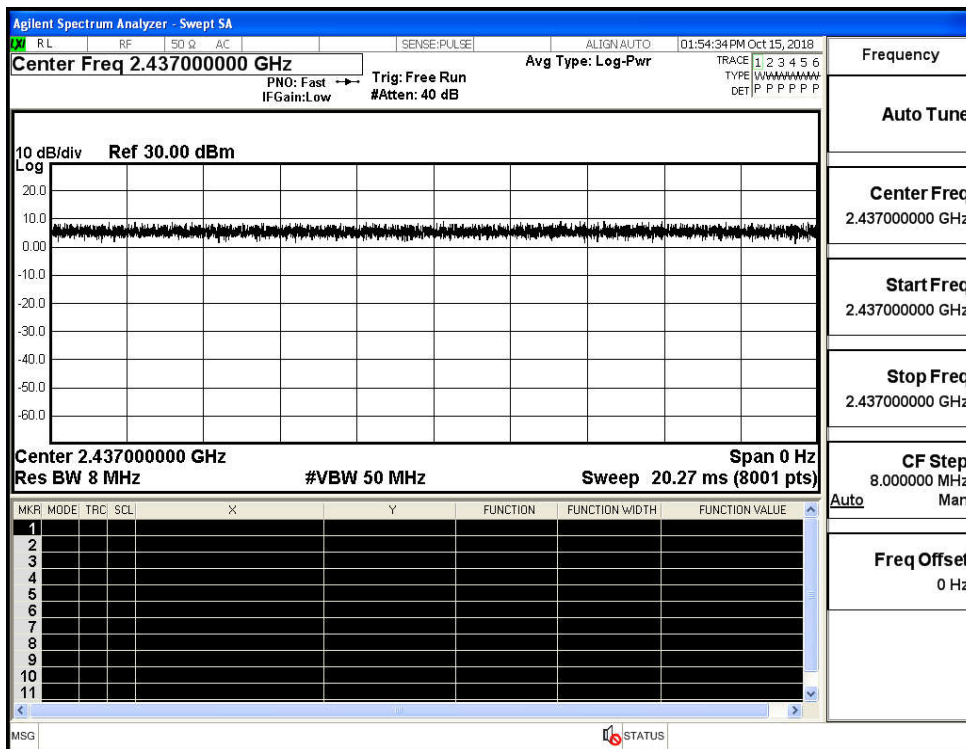
Duty Cycle\_11G\_2437\_Ant1



Duty Cycle\_11N20SISO\_2437\_Ant1



Duty Cycle\_11N40SISO\_2437\_Ant1



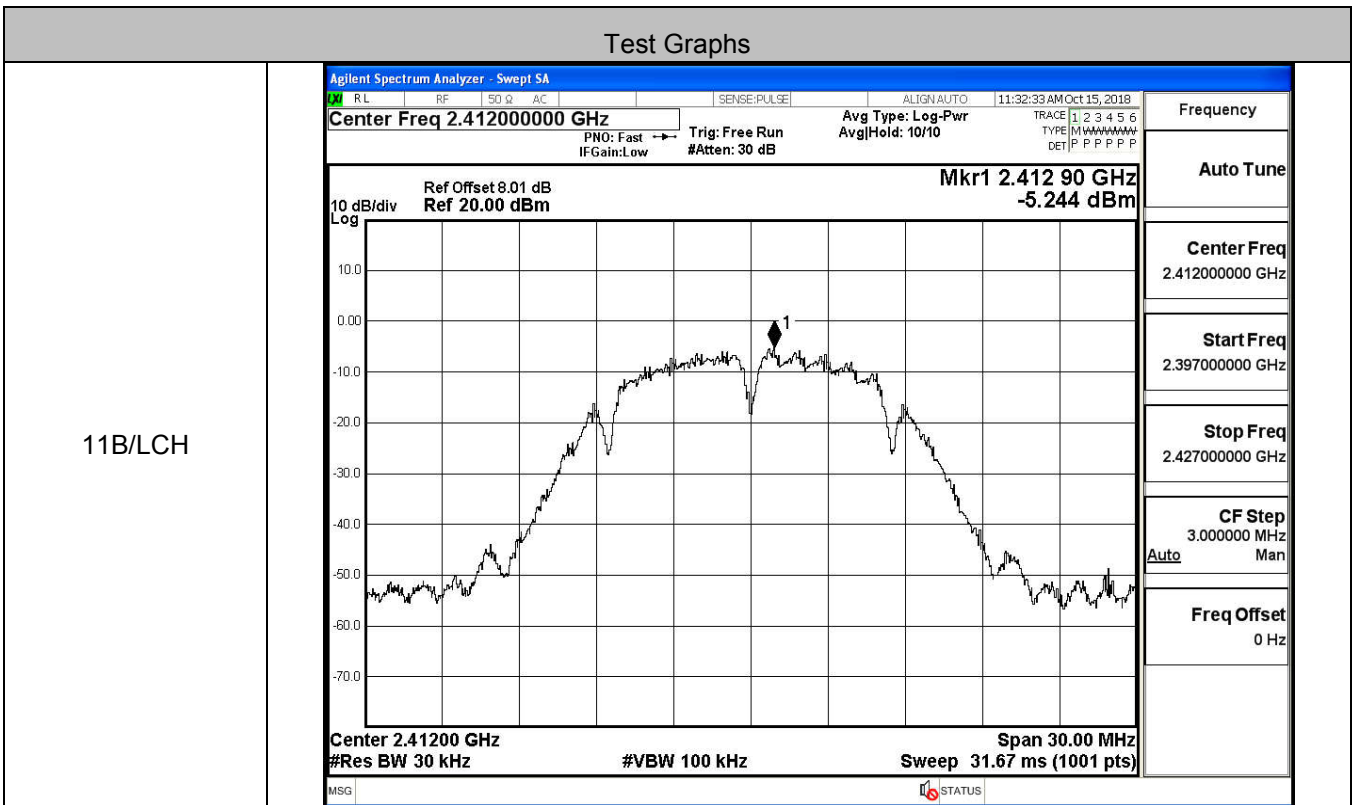
**C.2 Maximum Conducted Output Power**

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	15.11	30	PASS
	MCH	15.59	30	PASS
	HCH	16.05	30	PASS
11G	LCH	15.96	30	PASS
	MCH	16.88	30	PASS
	HCH	16.98	30	PASS
11N20SISO	LCH	15.81	30	PASS
	MCH	16.81	30	PASS
	HCH	16.93	30	PASS
11N40SISO	LCH	15.85	30	PASS
	MCH	16.94	30	PASS
	HCH	16.88	30	PASS

### C.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-5.244	8	PASS
	MCH	-4.253	8	PASS
	HCH	-3.844	8	PASS
11G	LCH	-8.564	8	PASS
	MCH	-5.893	8	PASS
	HCH	-4.684	8	PASS
11N20SISO	LCH	-8.624	8	PASS
	MCH	-5.221	8	PASS
	HCH	-5.350	8	PASS
11N40SISO	LCH	-9.807	8	PASS
	MCH	-10.145	8	PASS
	HCH	-9.245	8	PASS

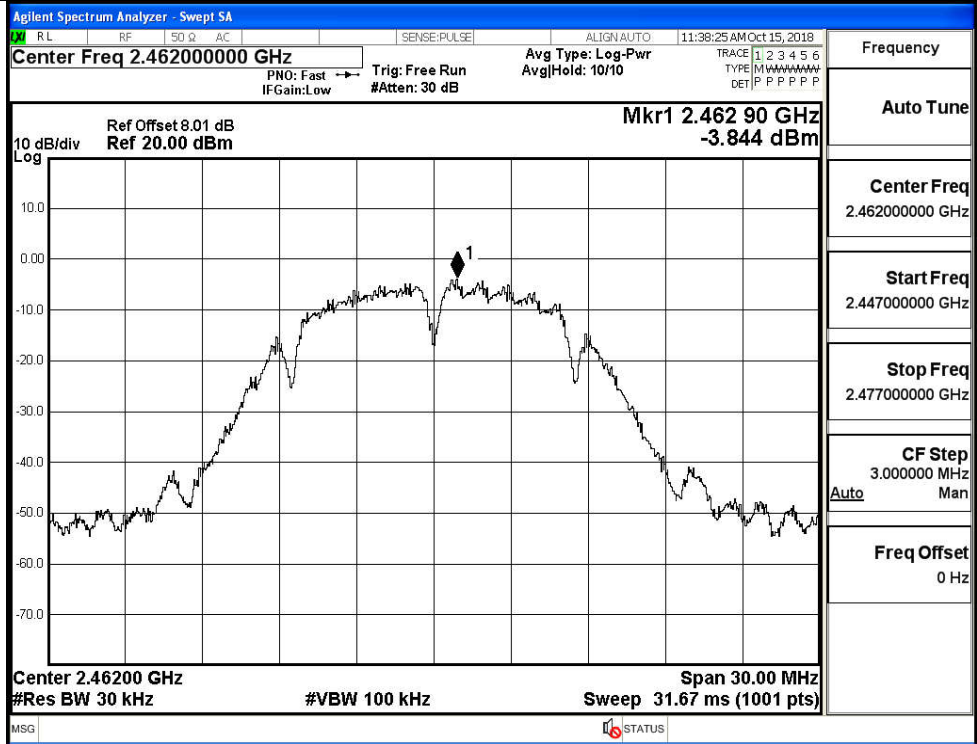
#### Test Graphs



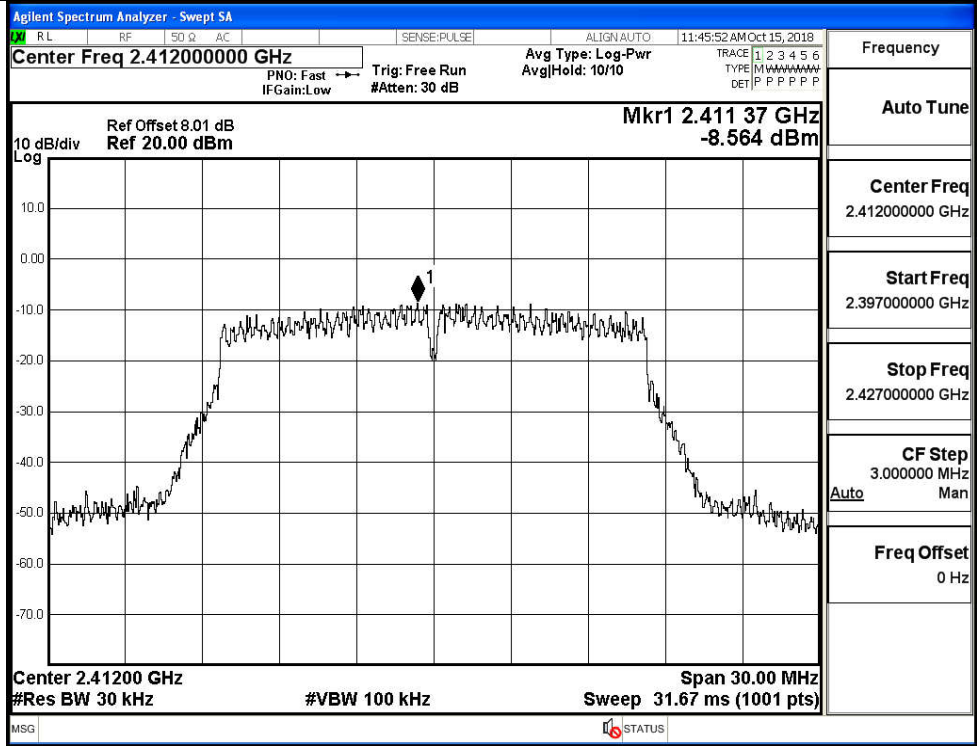
11B/MCH



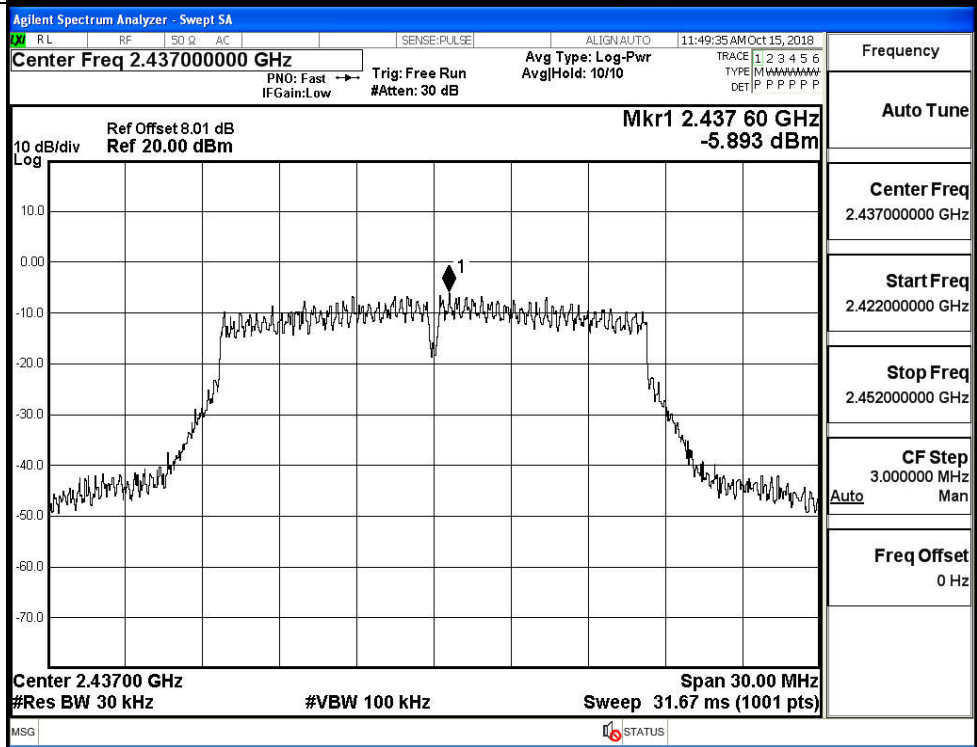
11B/HCH



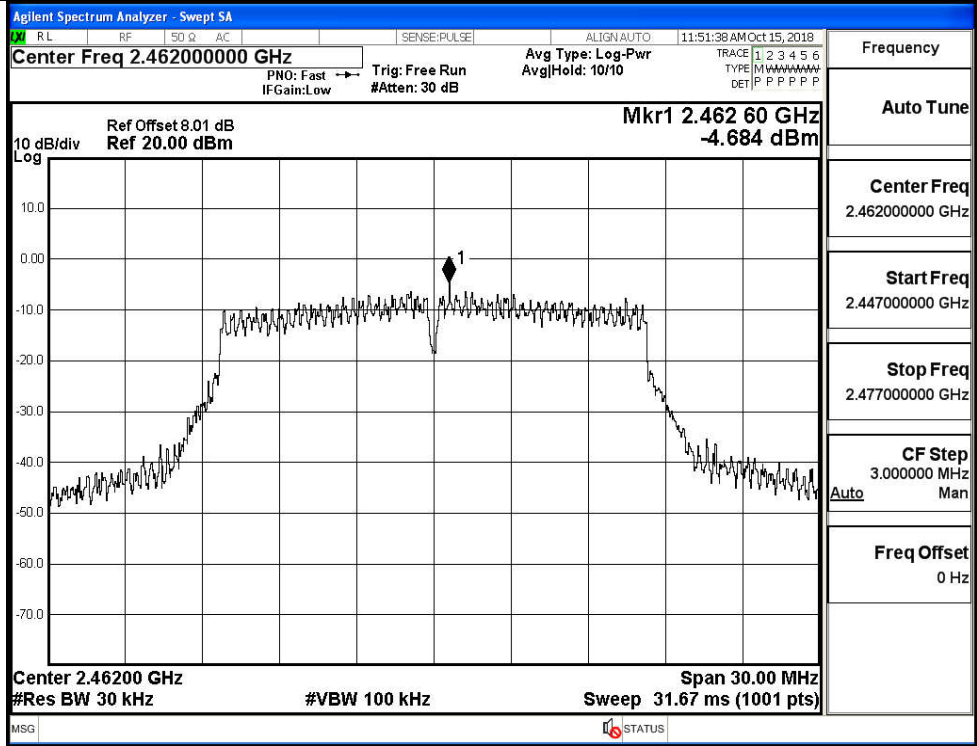
11G/LCH



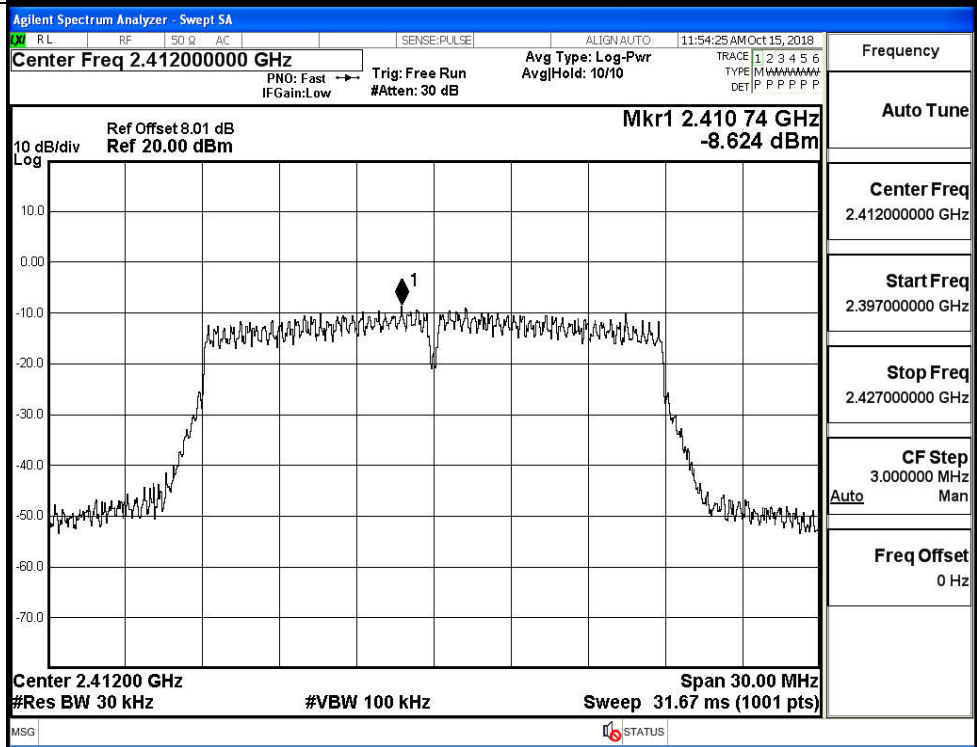
11G/MCH



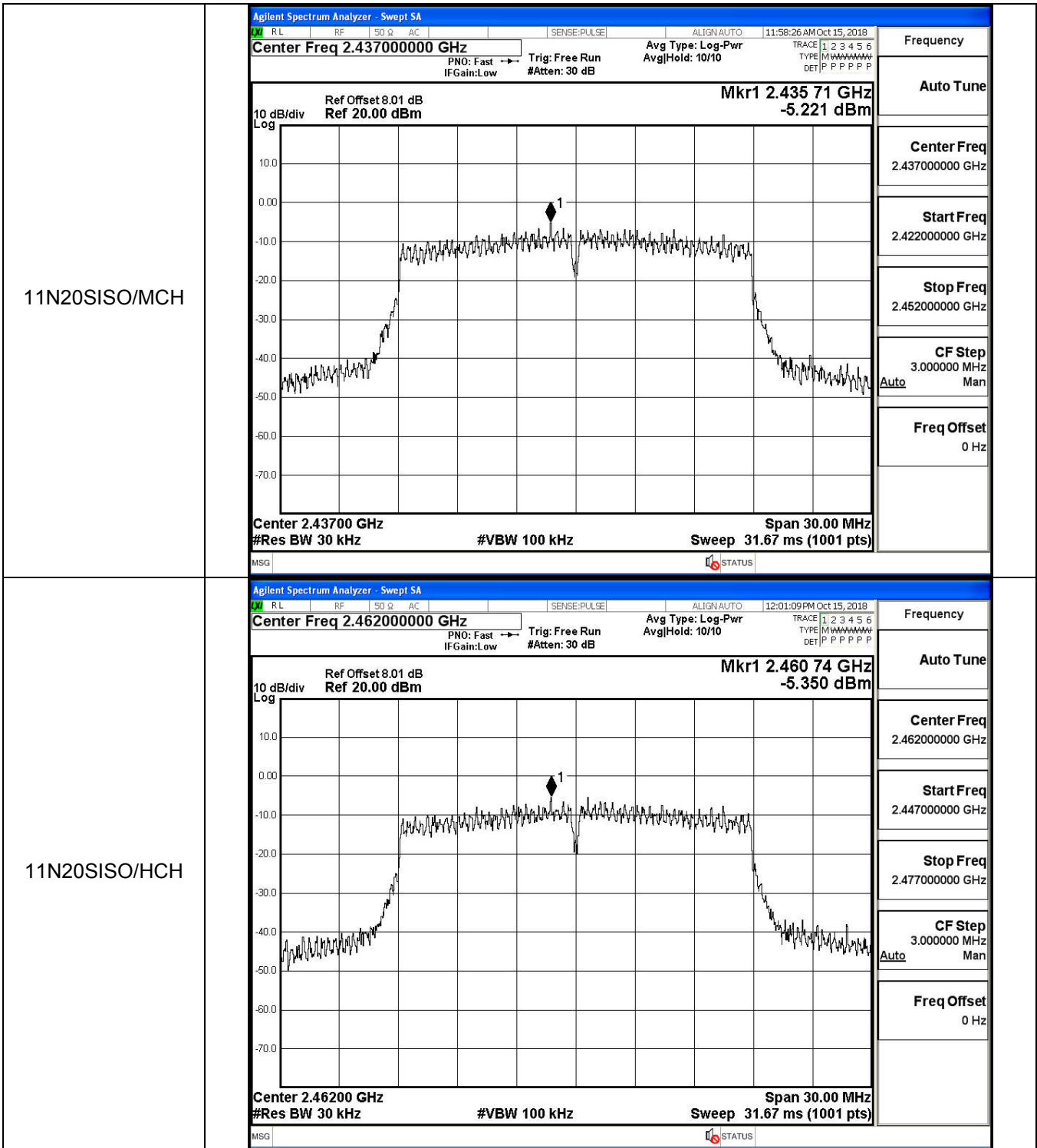
11G/HCH

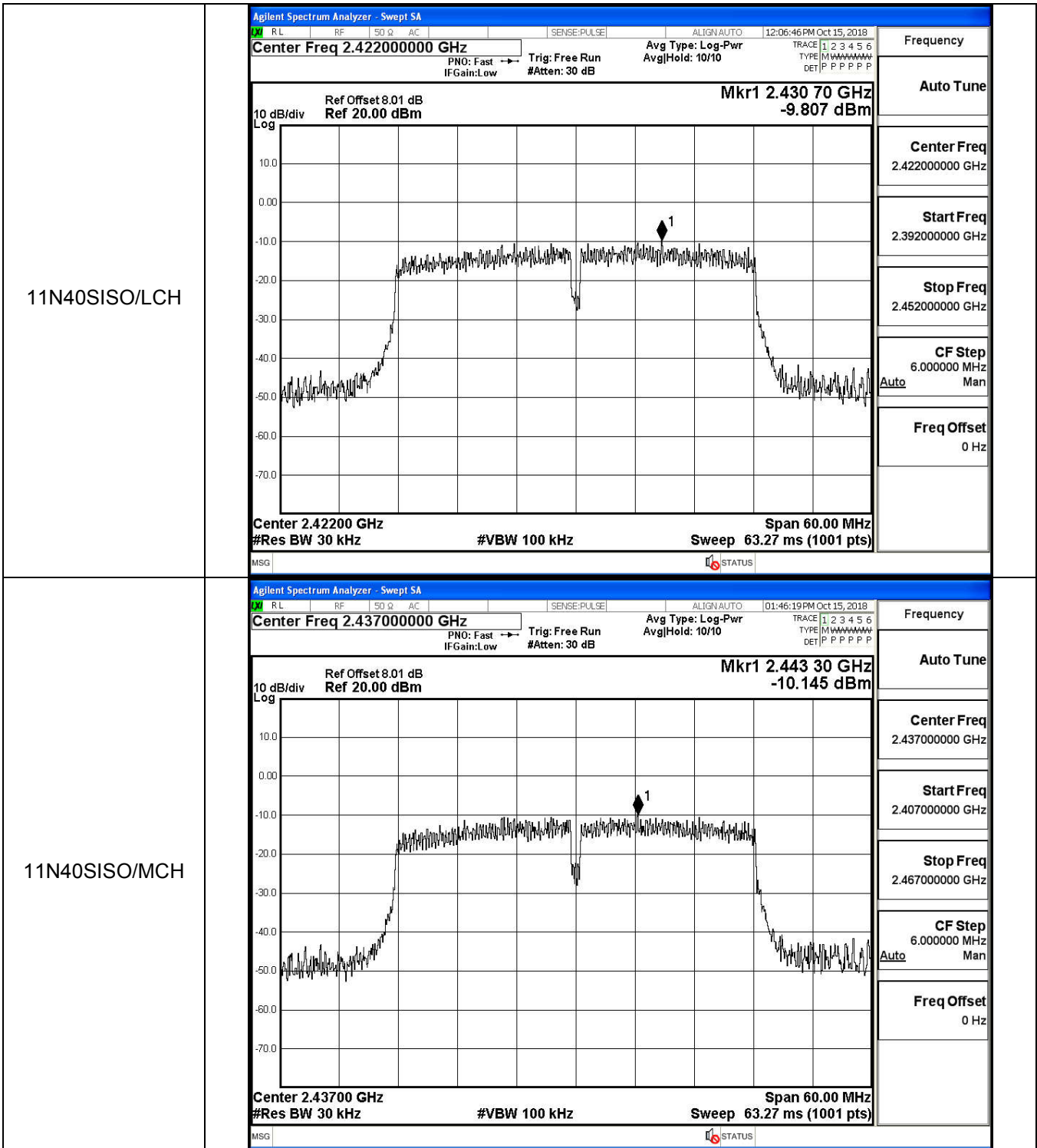


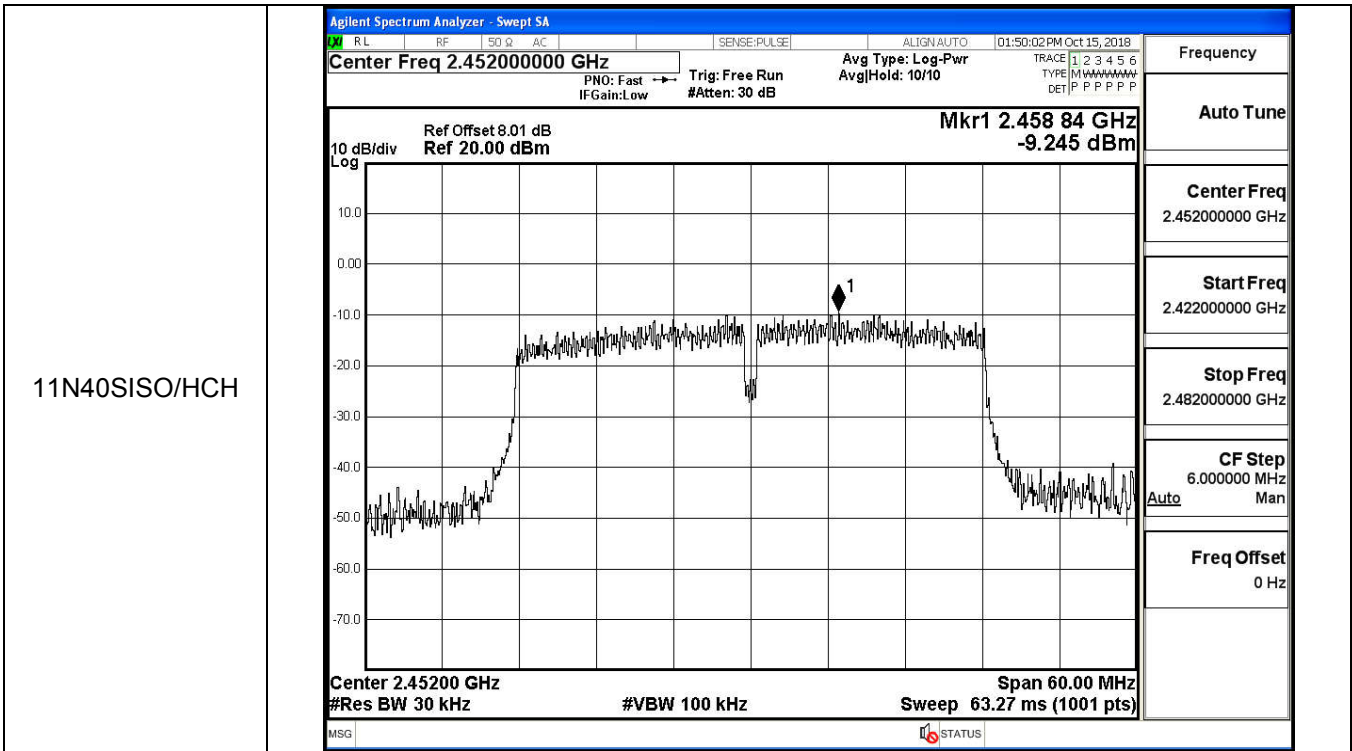
11N20SISO/LCH





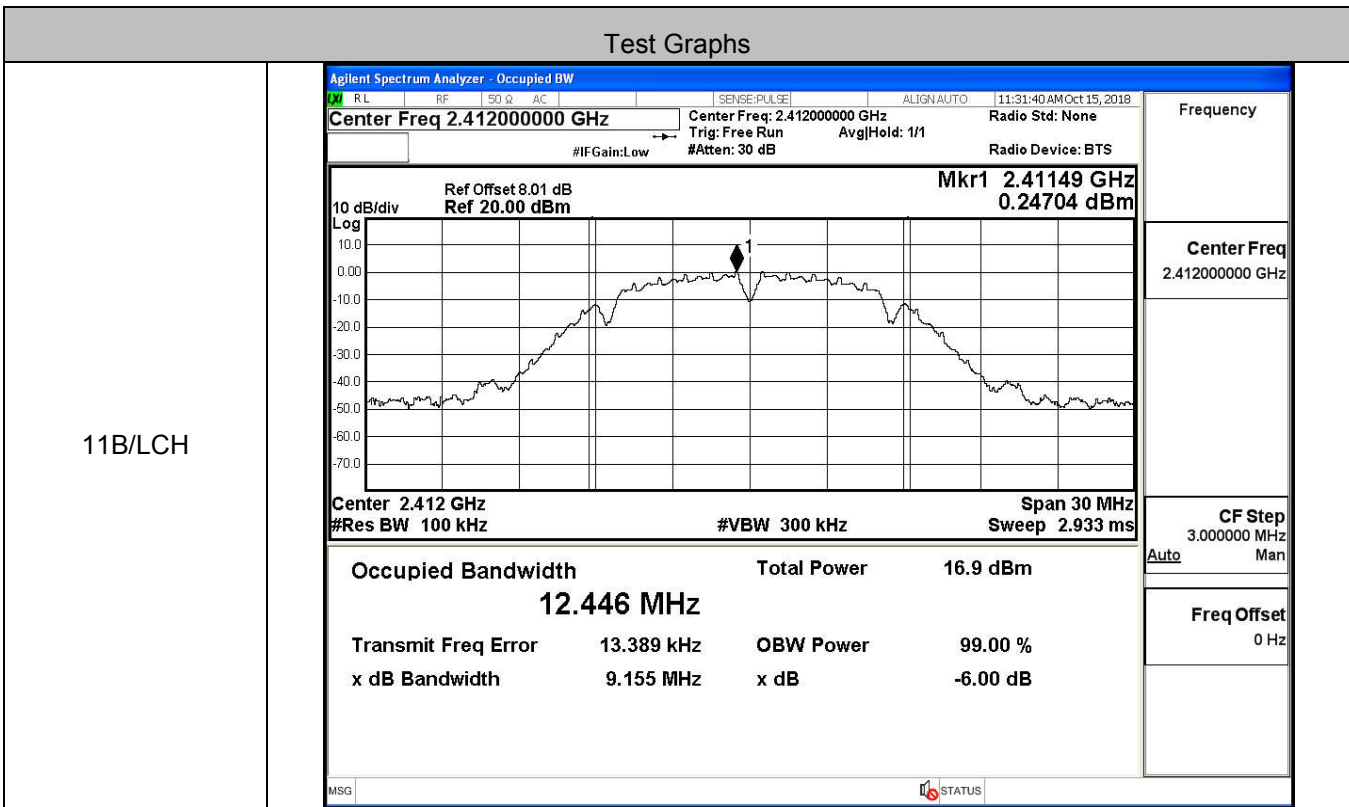




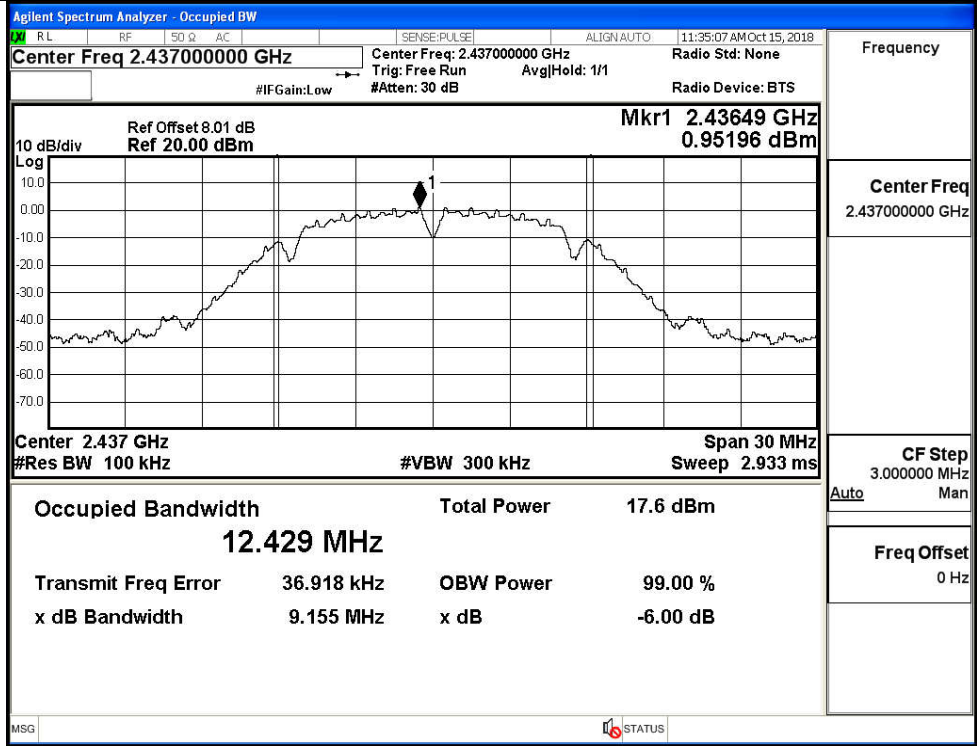


**C.4 6dB Bandwidth**

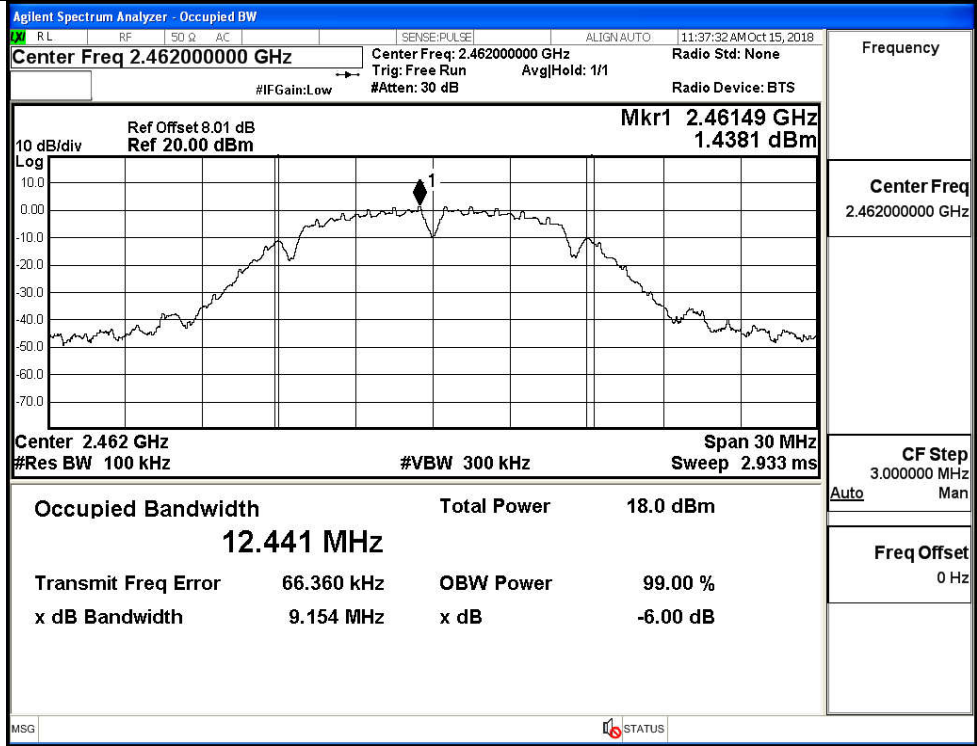
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.155	≥0.5	PASS
	MCH	9.155	≥0.5	PASS
	HCH	9.154	≥0.5	PASS
11G	LCH	15.10	≥0.5	PASS
	MCH	15.15	≥0.5	PASS
	HCH	15.15	≥0.5	PASS
11N20SISO	LCH	15.16	≥0.5	PASS
	MCH	15.46	≥0.5	PASS
	HCH	15.15	≥0.5	PASS
11N40SISO	LCH	35.25	≥0.5	PASS
	MCH	35.49	≥0.5	PASS
	HCH	35.51	≥0.5	PASS



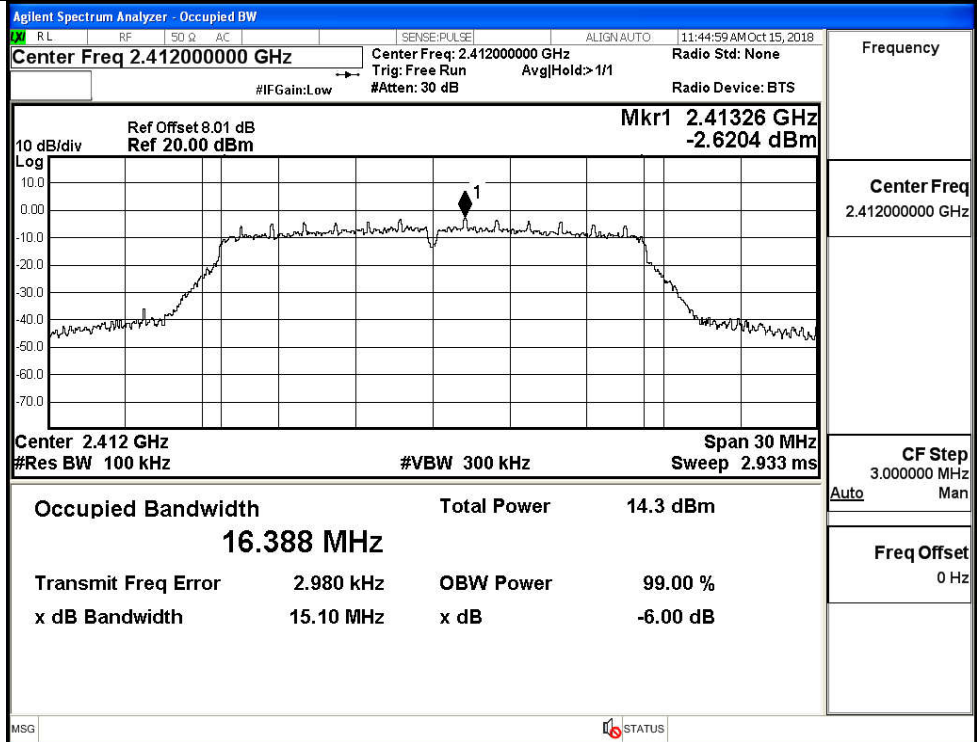
11B/MCH



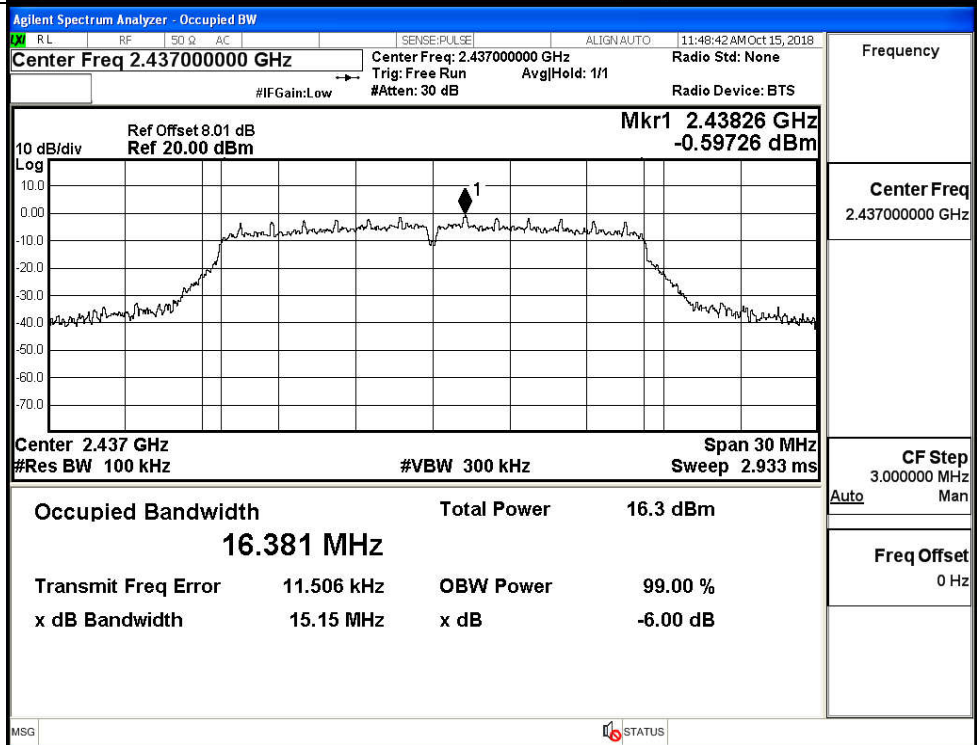
11B/HCH



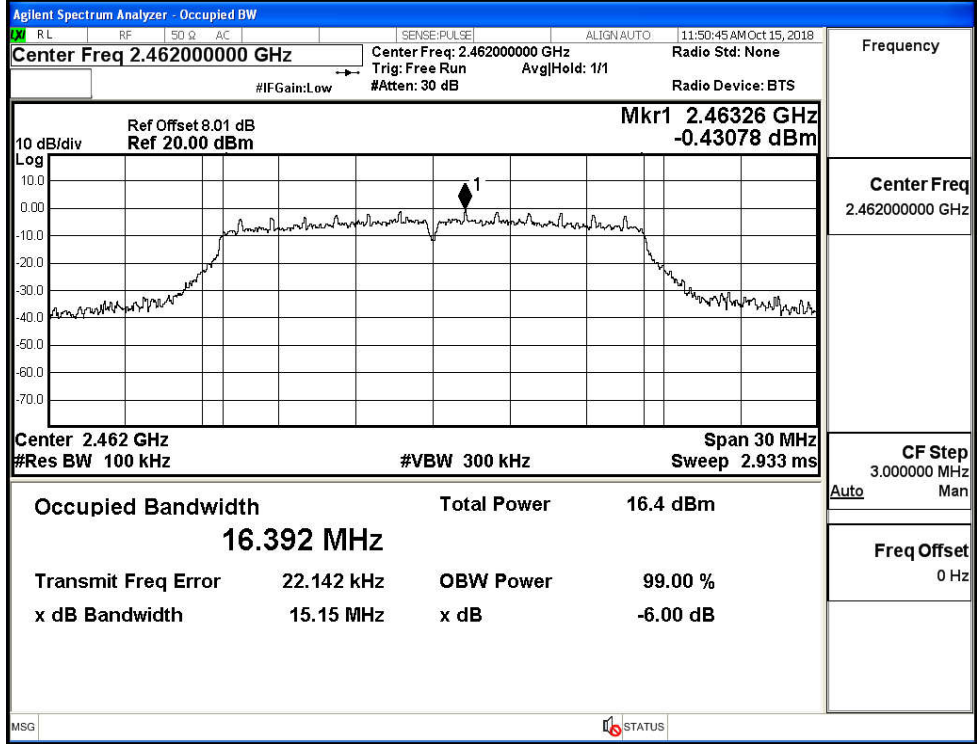
11G/LCH



11G/MCH



11G/HCH



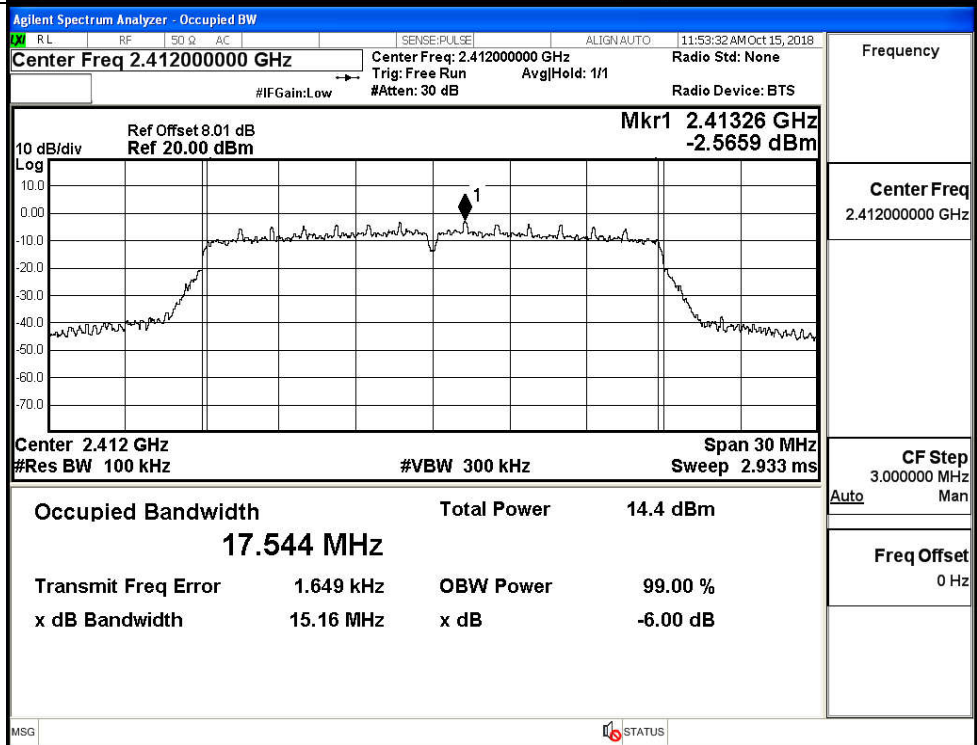
Frequency

Center Freq  
2.46200000 GHz

CF Step  
3.000000 MHz  
Auto Man

Freq Offset  
0 Hz

11N20SISO/LCH

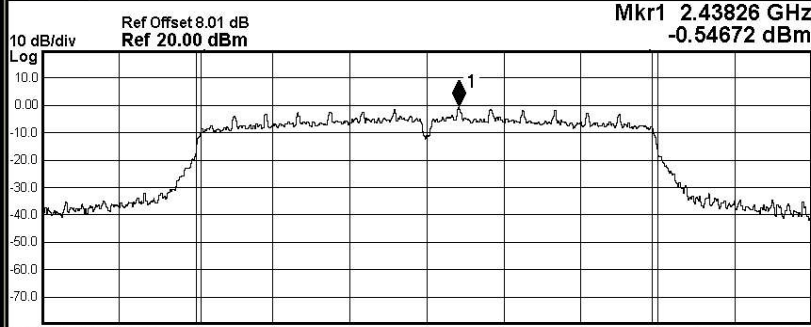
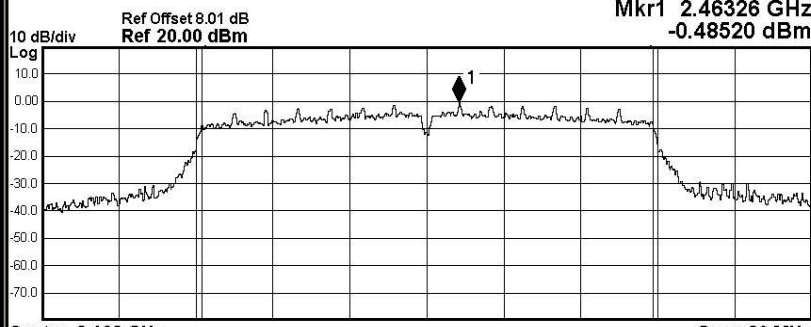


Frequency

Center Freq  
2.41200000 GHz

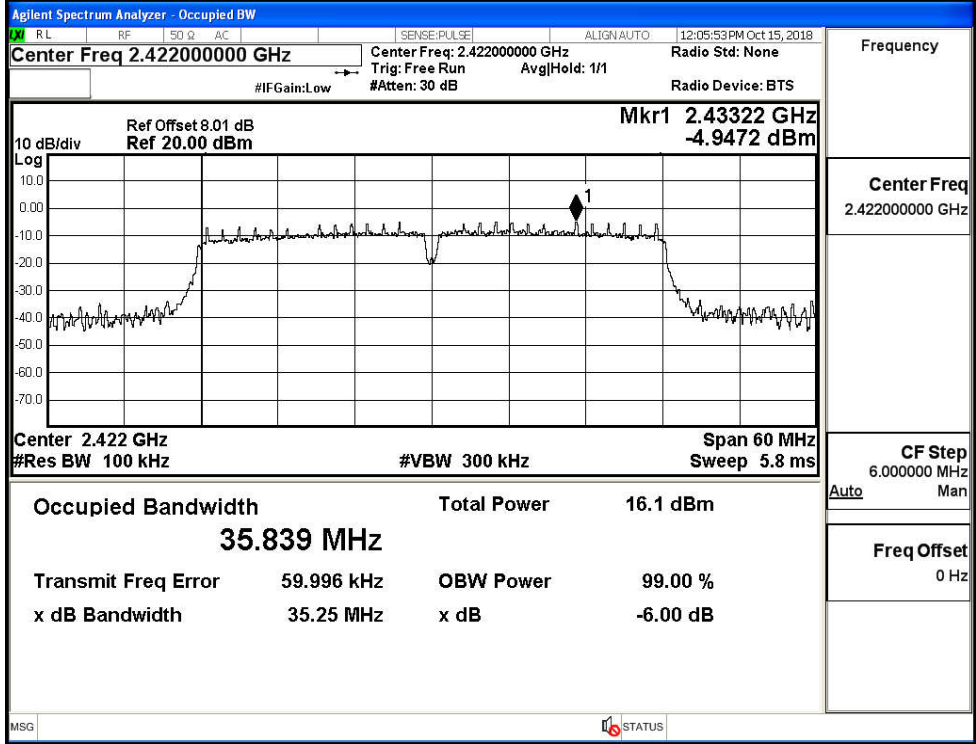
CF Step  
3.000000 MHz  
Auto Man

Freq Offset  
0 Hz

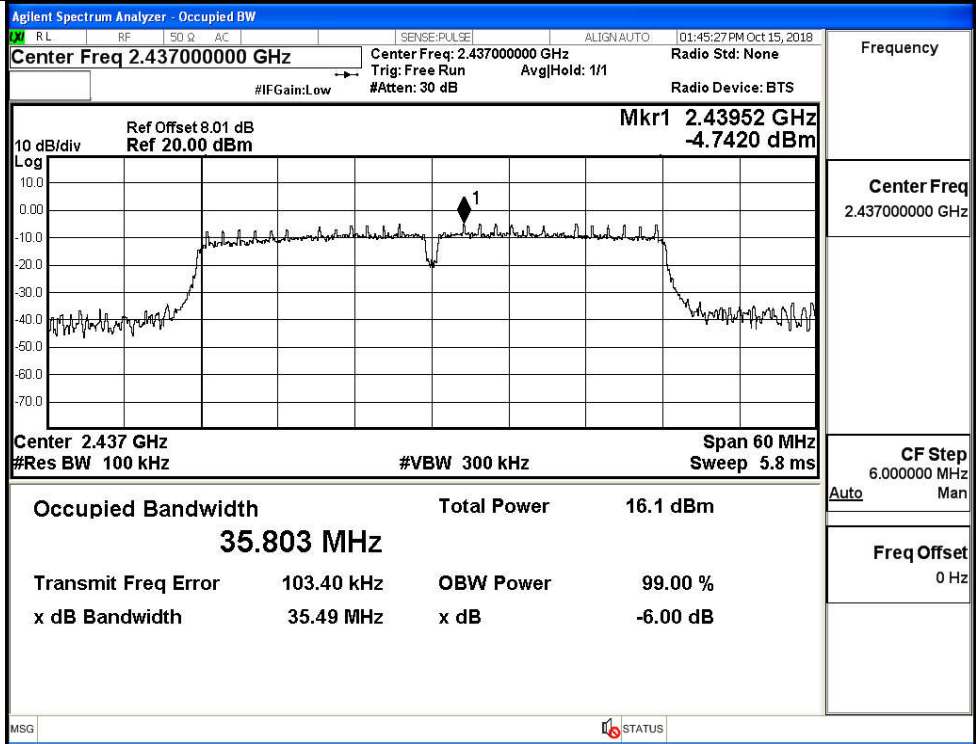
<p>11N20SISO/MCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq <b>2.437000000 GHz</b></p> <p>Center Freq: 2.437000000 GHz Trig: Free Run #IFGain: Low #Atten: 30 dB</p> <p>Align: AUTO Radio Std: None Avg/Hold: 1/1 Radio Device: BTS</p> <p>11:57:33 AM Oct 15, 2018</p> <p>Frequency</p>  <p>Center Freq 2.437000000 GHz</p> <p>Center 2.437 GHz #Res BW 100 kHz</p> <p>Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth <b>17.534 MHz</b></p> <p>Total Power <b>16.3 dBm</b></p> <p>Transmit Freq Error 10.171 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 15.46 MHz</p> <p>x dB -6.00 dB</p> <p>MSG STATUS</p>	<p>Frequency</p> <p>Center Freq 2.437000000 GHz</p> <p>CF Step 3.000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0 Hz</p>
<p>11N20SISO/HCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq <b>2.462000000 GHz</b></p> <p>Center Freq: 2.462000000 GHz Trig: Free Run #IFGain: Low #Atten: 30 dB</p> <p>Align: AUTO Radio Std: None Avg/Hold: 1/1 Radio Device: BTS</p> <p>12:00:16 PM Oct 15, 2018</p> <p>Frequency</p>  <p>Center Freq 2.462000000 GHz</p> <p>Center 2.462 GHz #Res BW 100 kHz</p> <p>Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth <b>17.546 MHz</b></p> <p>Total Power <b>16.5 dBm</b></p> <p>Transmit Freq Error 25.080 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 15.15 MHz</p> <p>x dB -6.00 dB</p> <p>MSG STATUS</p>	<p>Frequency</p> <p>Center Freq 2.462000000 GHz</p> <p>CF Step 3.000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0 Hz</p>



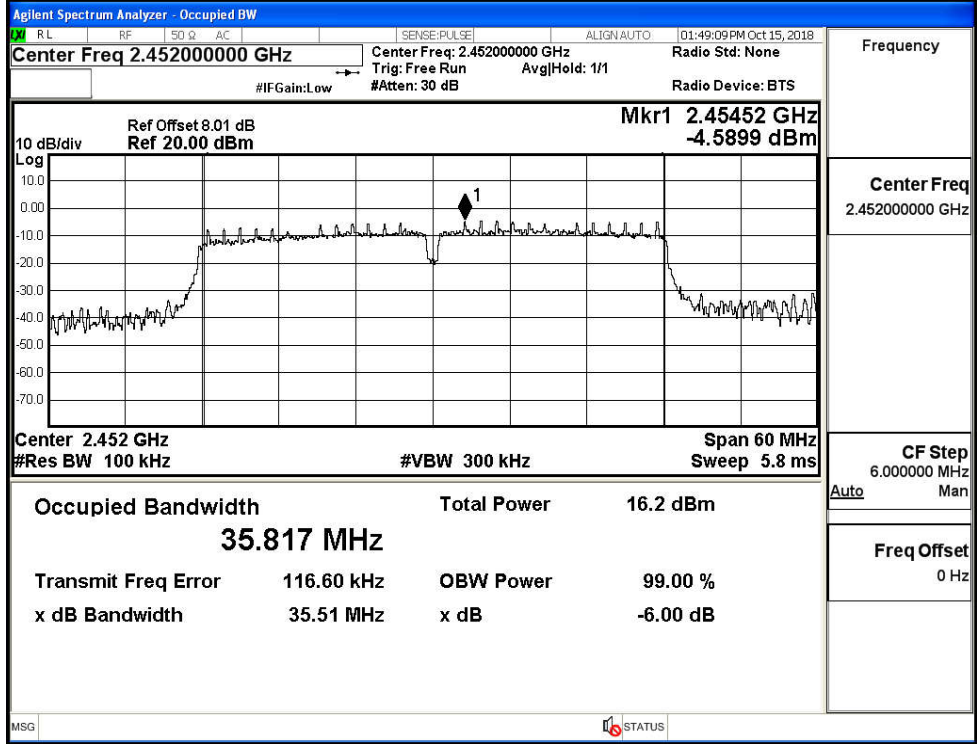
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH

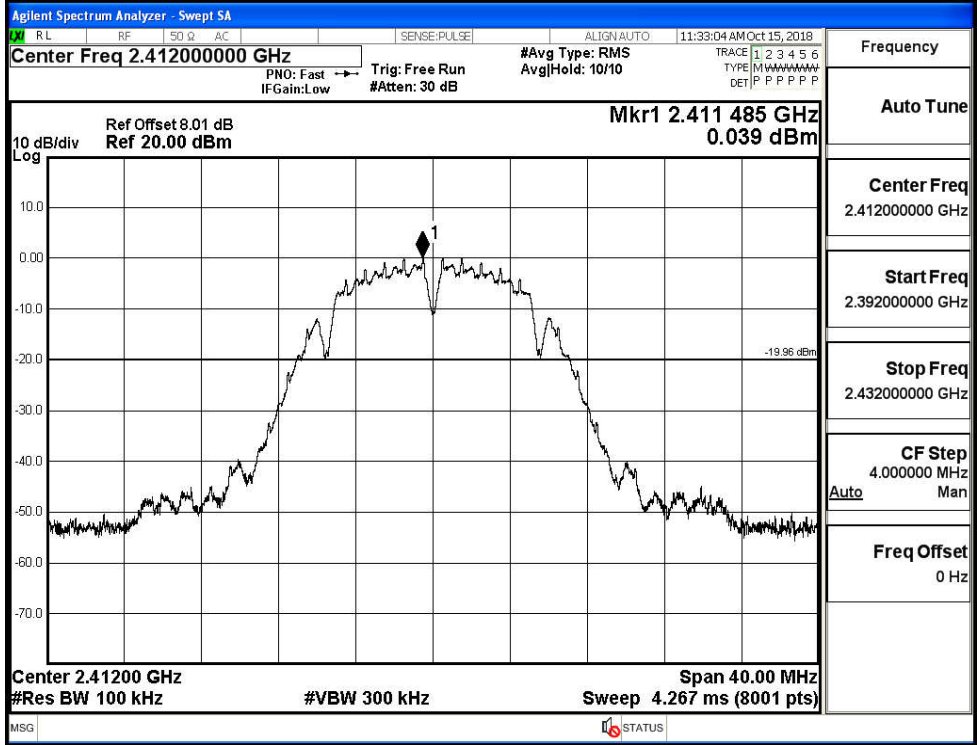


**C.5 RF Conducted Spurious Emissions**

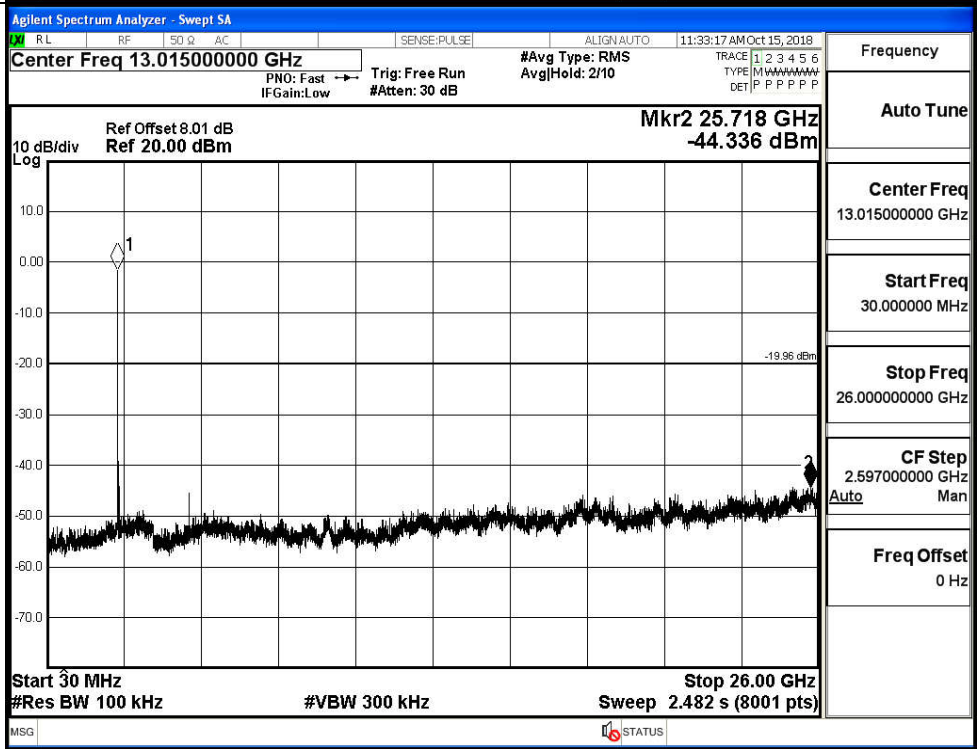
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	0.039	-44.336	-19.961	PASS
	MCH	0.892	-43.001	-19.108	PASS
	HCH	1.344	-42.351	-18.656	PASS
11G	LCH	-3.108	-43.782	-23.108	PASS
	MCH	-0.703	-43.307	-20.703	PASS
	HCH	-0.506	-43.050	-20.506	PASS
11N20 SISO	LCH	-2.735	-44.086	-22.735	PASS
	MCH	-1.355	-43.943	-21.355	PASS
	HCH	-0.49	-43.358	-20.490	PASS
11N40 SISO	LCH	-4.779	-43.939	-24.779	PASS
	MCH	-4.668	-43.275	-24.668	PASS
	HCH	-4.657	-44.135	-24.657	PASS

11B LCH Graphs

Pref/11B/LCH

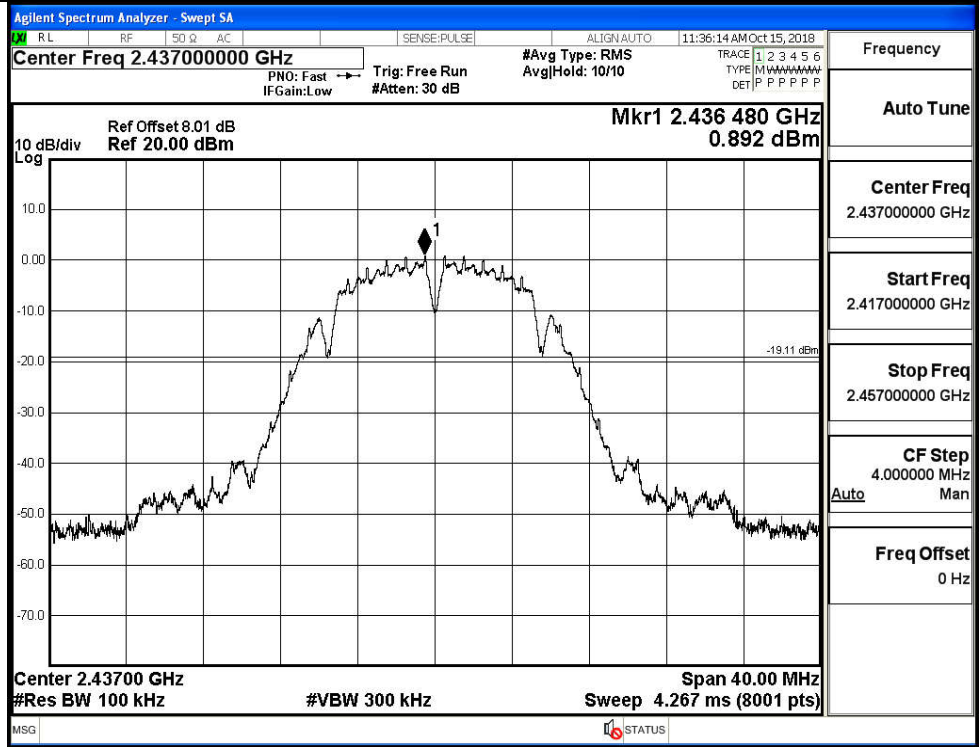


Puw/11B/LCH

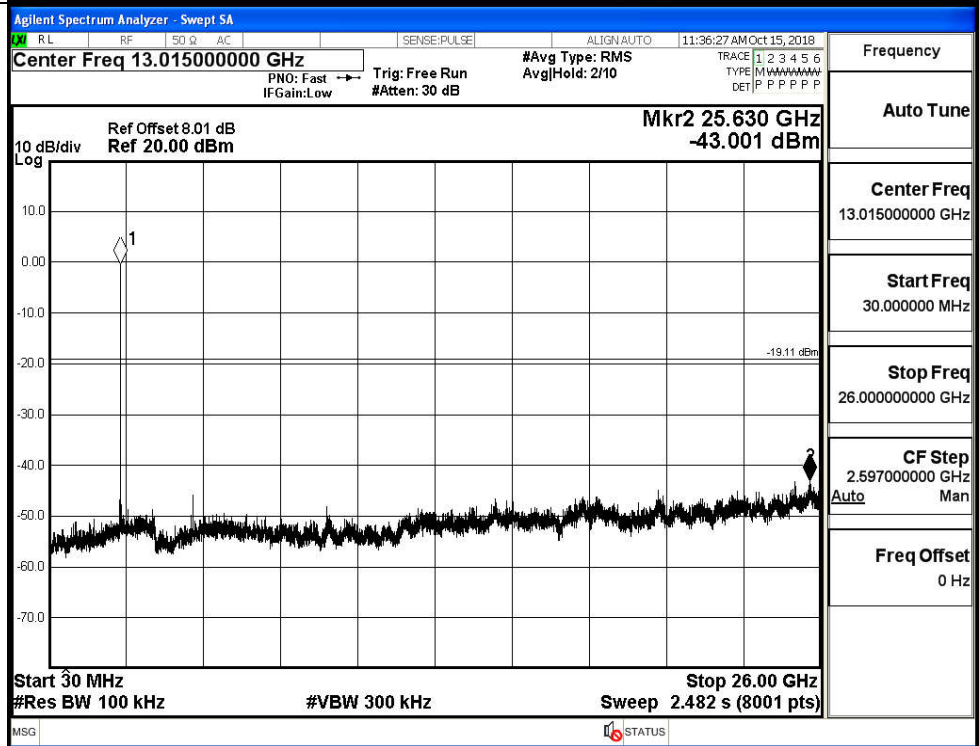


11B\_MCH\_Graphs

Pref/11B/MCH

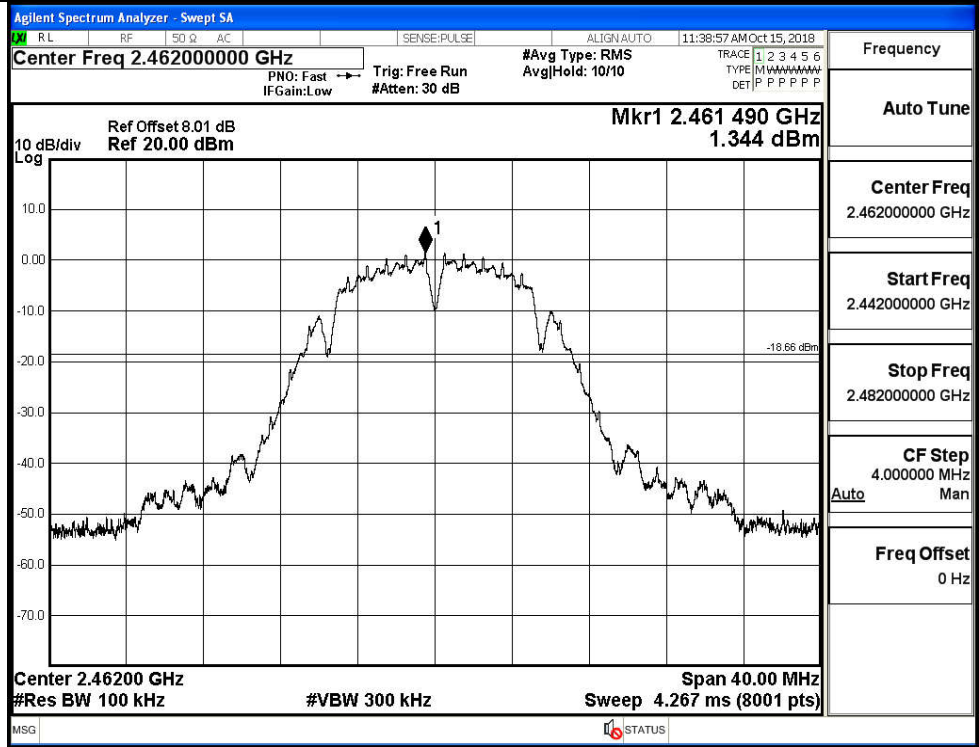


Puw/11B/MCH

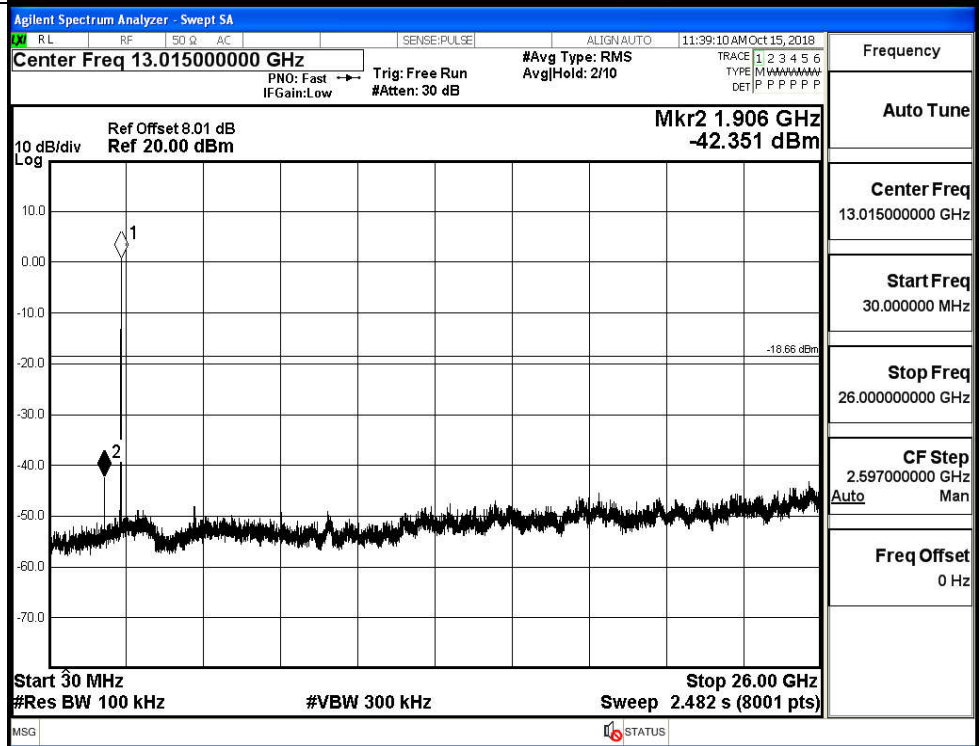


11B HCH Graphs

Pref/11B/HCH

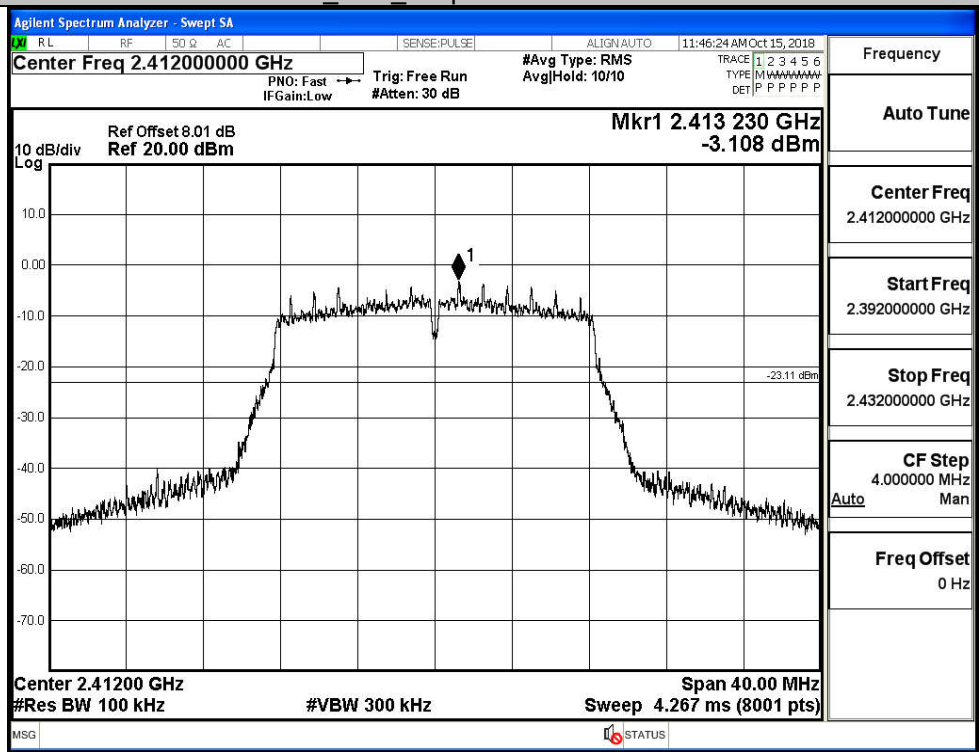


Puw/11B/HCH

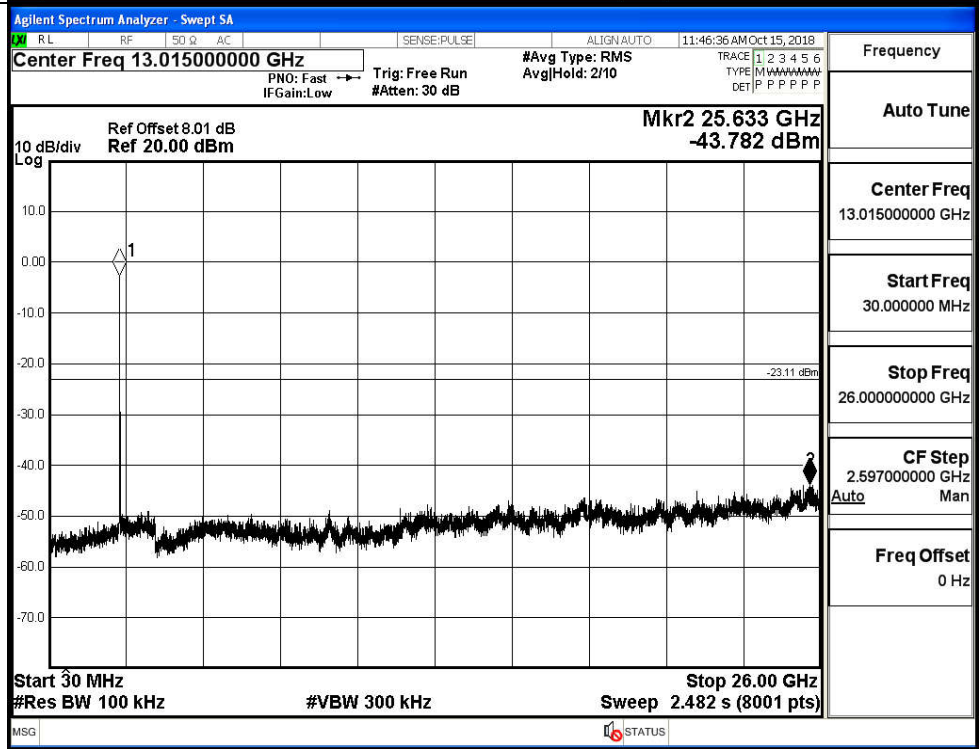


11G\_LCH\_Graphs

Pref/11G/LCH

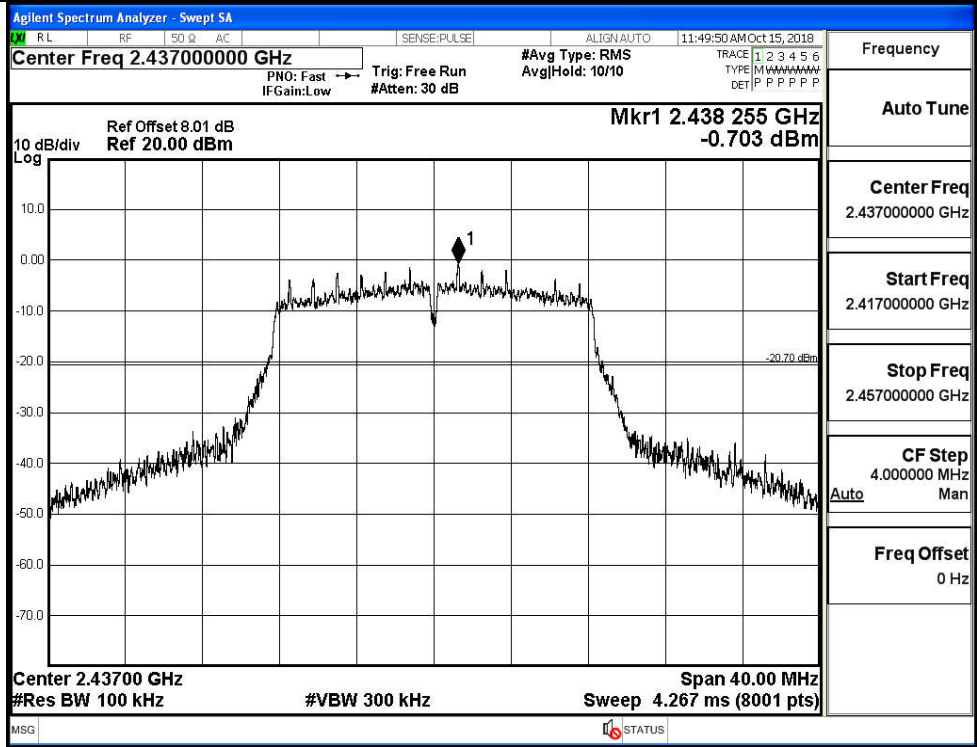


Puw/11G/LCH

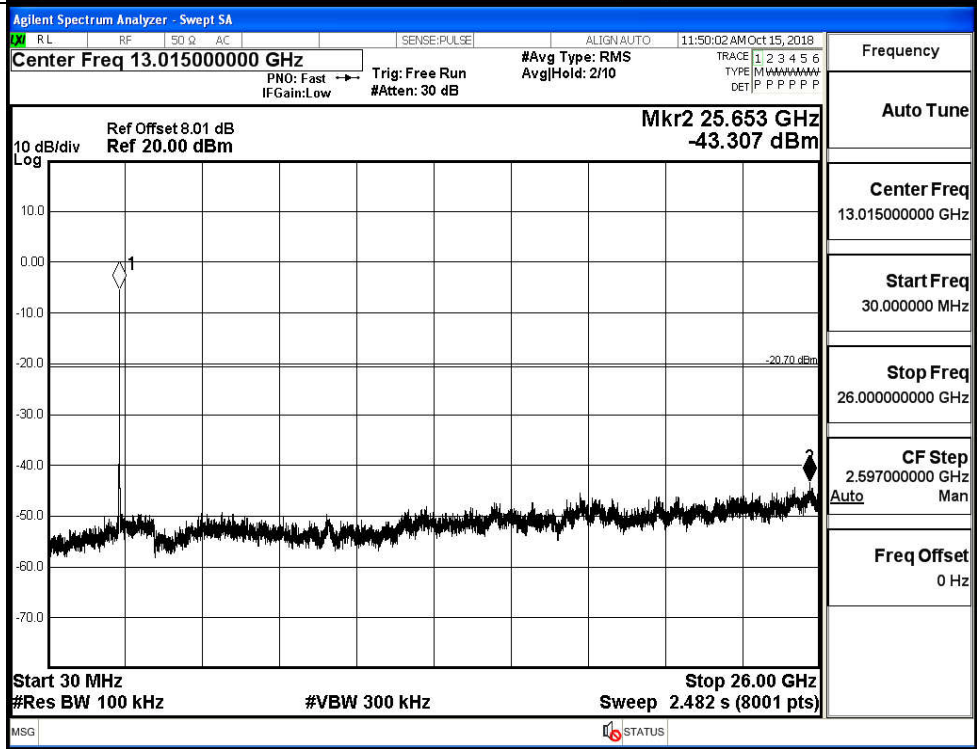


11G\_MCH\_Graphs

Pref/11G/MCH



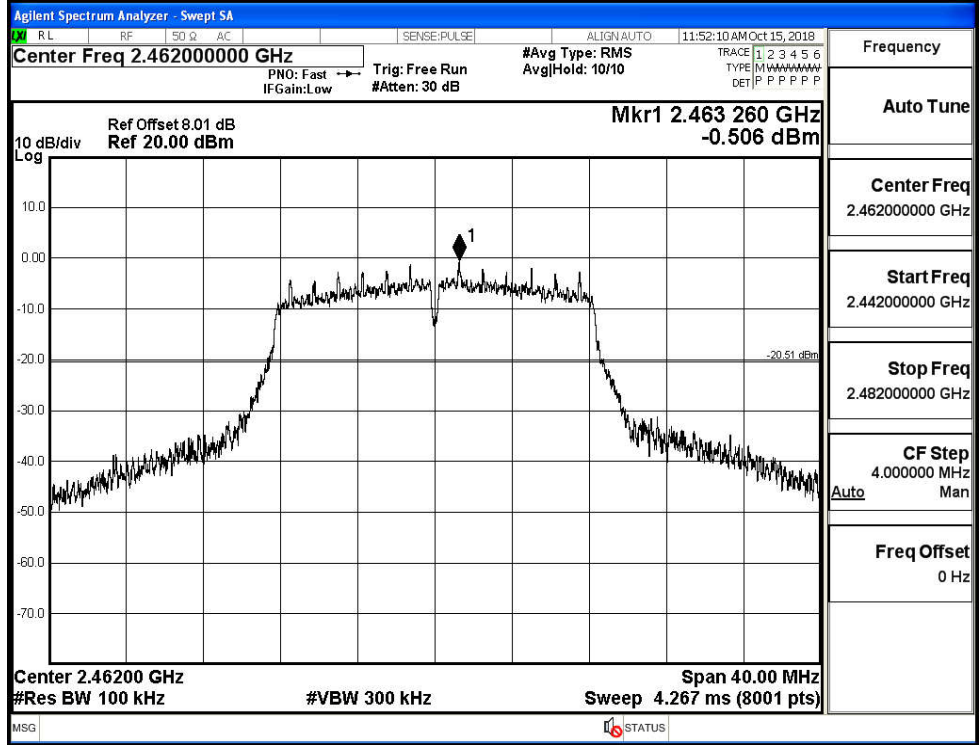
Puw/11G/MCH



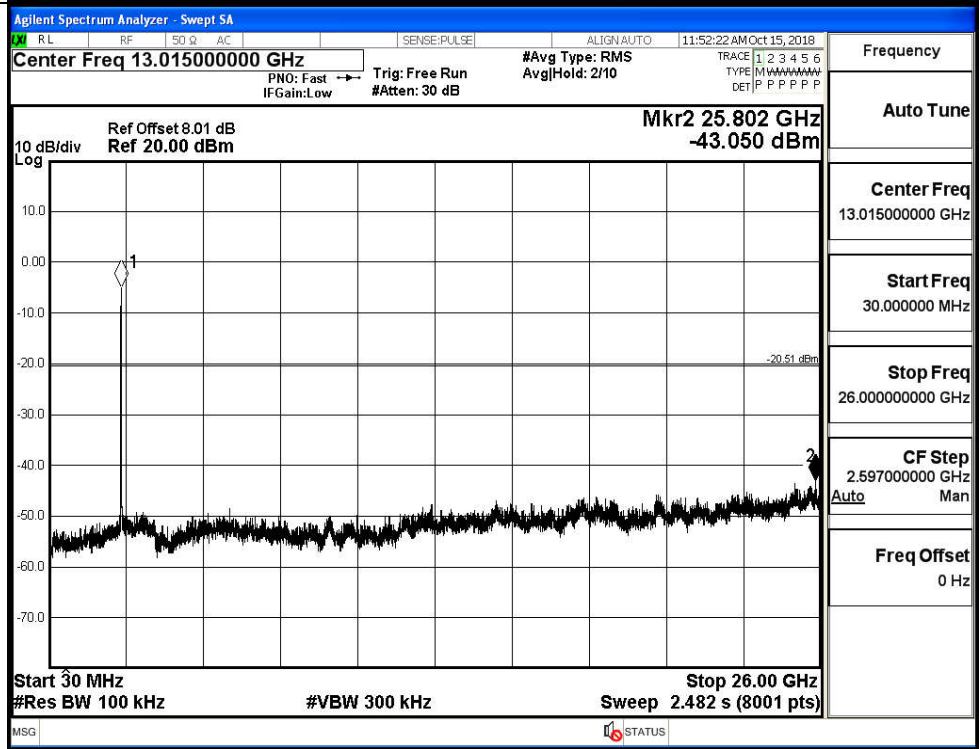


11G HCH Graphs

Pref/11G/HCH

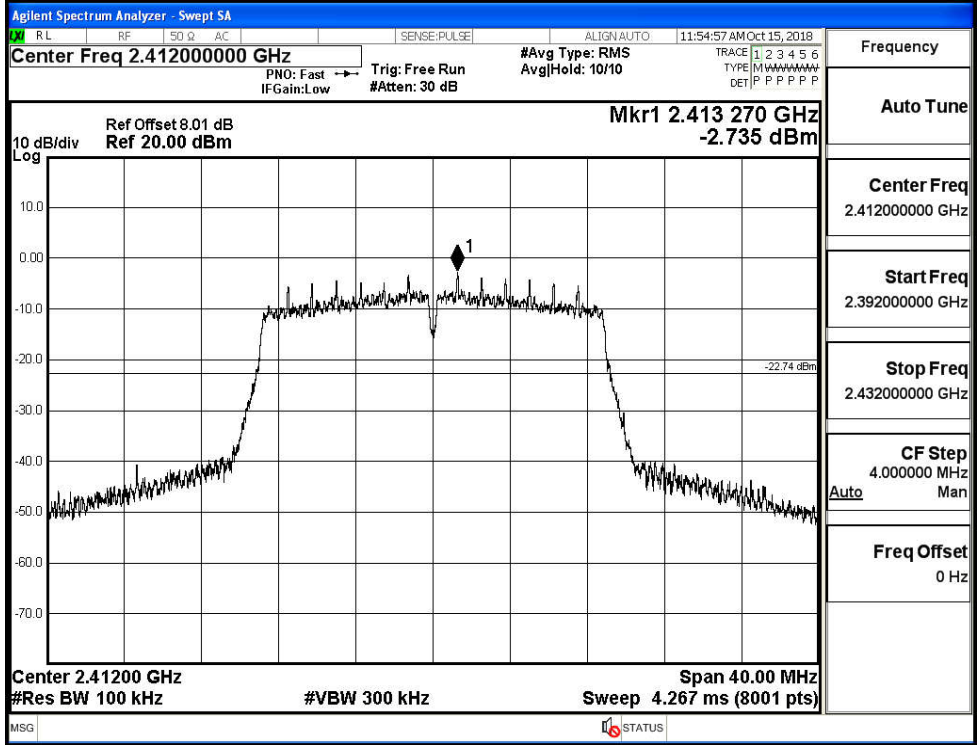


Puw/11G/HCH

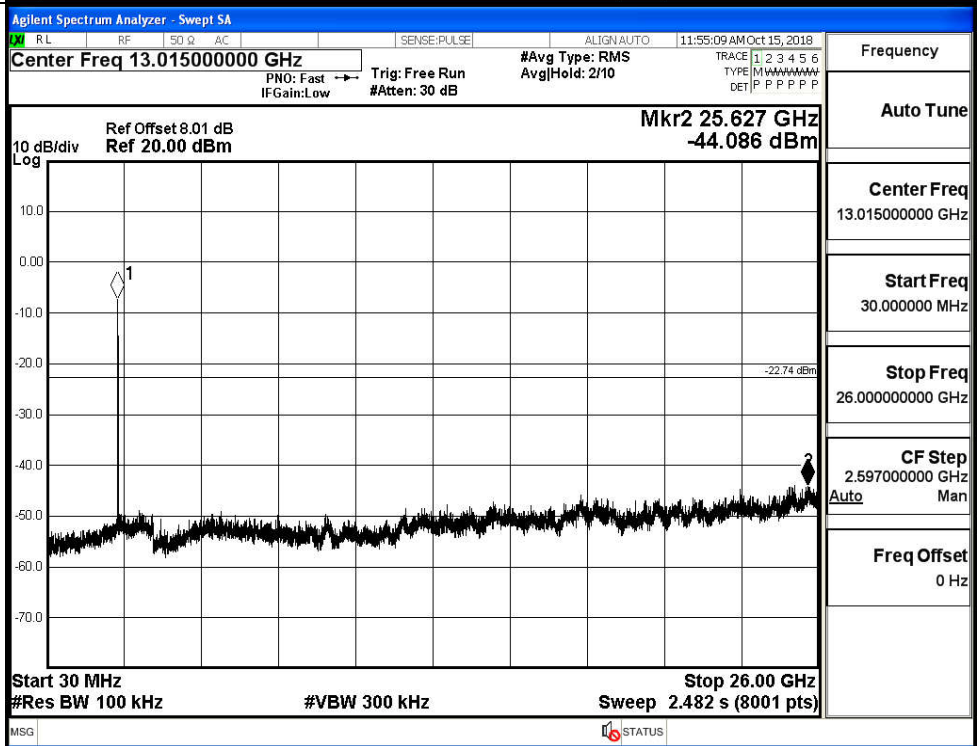


11N20SISO LCH\_Graphs

Pref/11N20SIS  
O/LCH

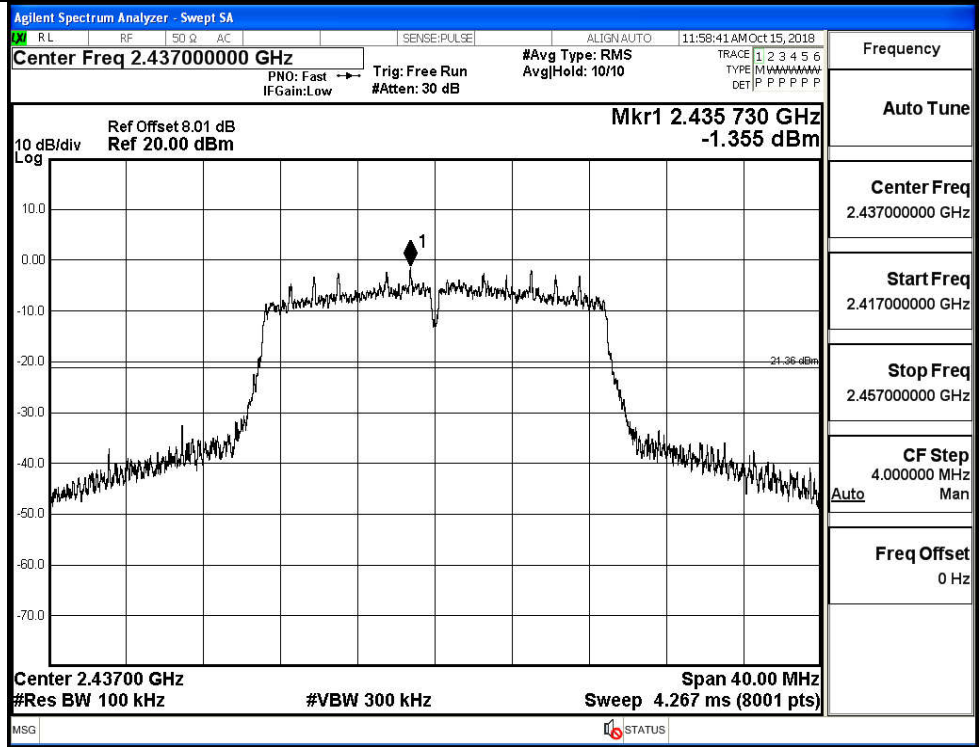


Puw/11N20  
SISO/LCH

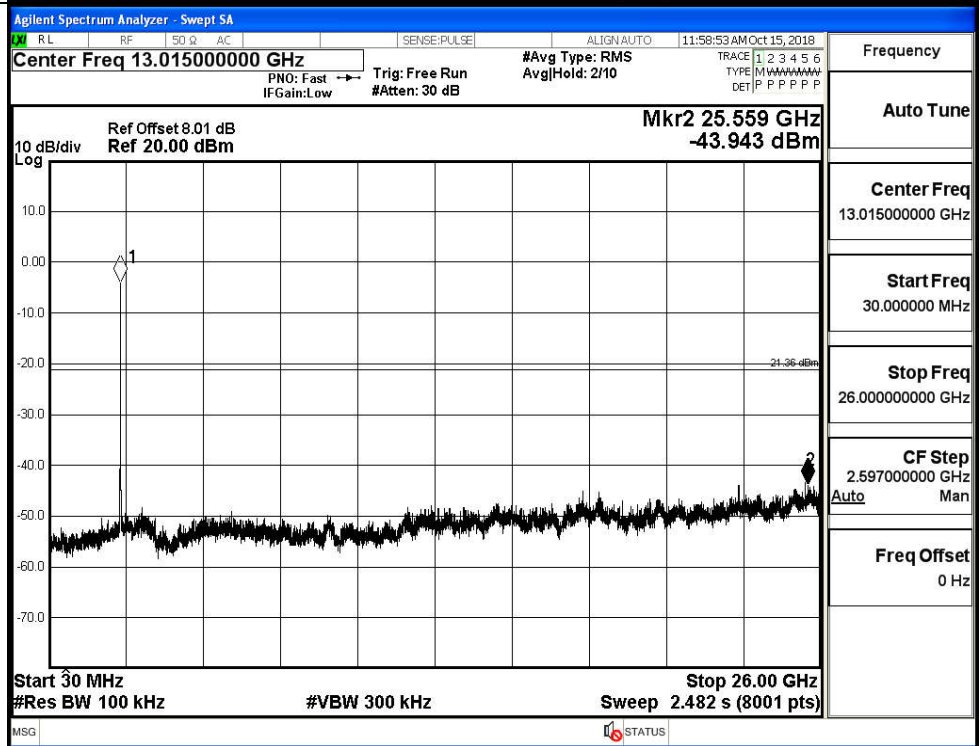


11N20SISO\_MCH\_Graphs

Pref/11N20  
SISO/MCH

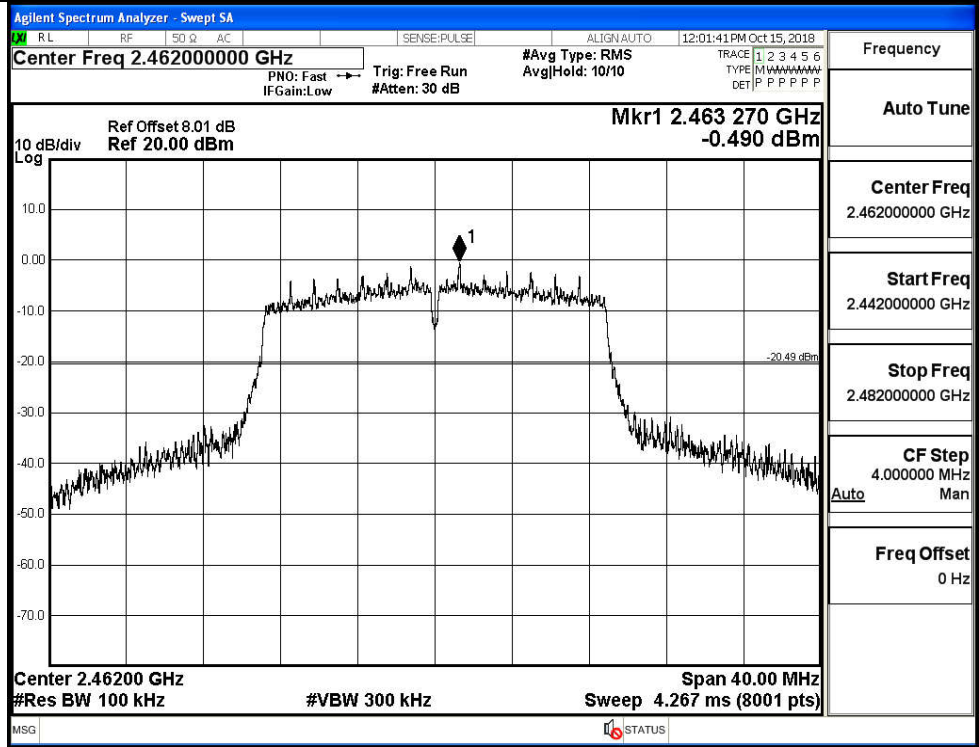


Puw/11N20  
SISO/MCH

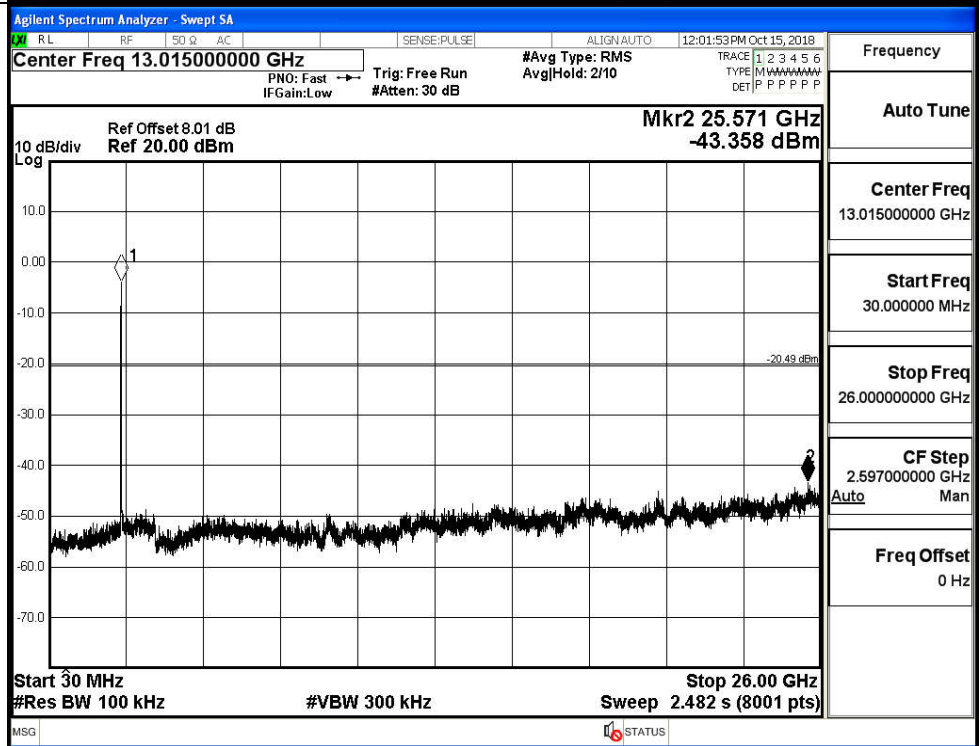


11N20SISO HCH Graphs

Pref/11N20  
SISO/HCH

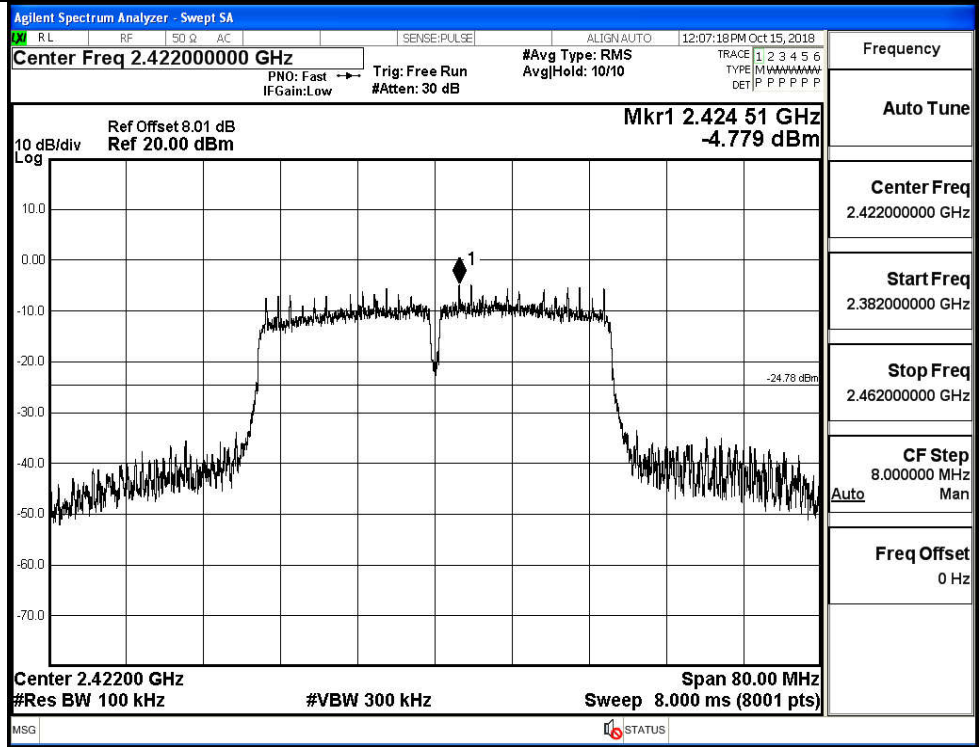


Puw/11N20  
SISO/HCH



11N40SISO\_LCH\_Graphs

Pref/11N40  
SISO/LCH



Puw/11N40  
SISO/LCH

