

Appendix A): Maximum Conducted Output Power

Result Table

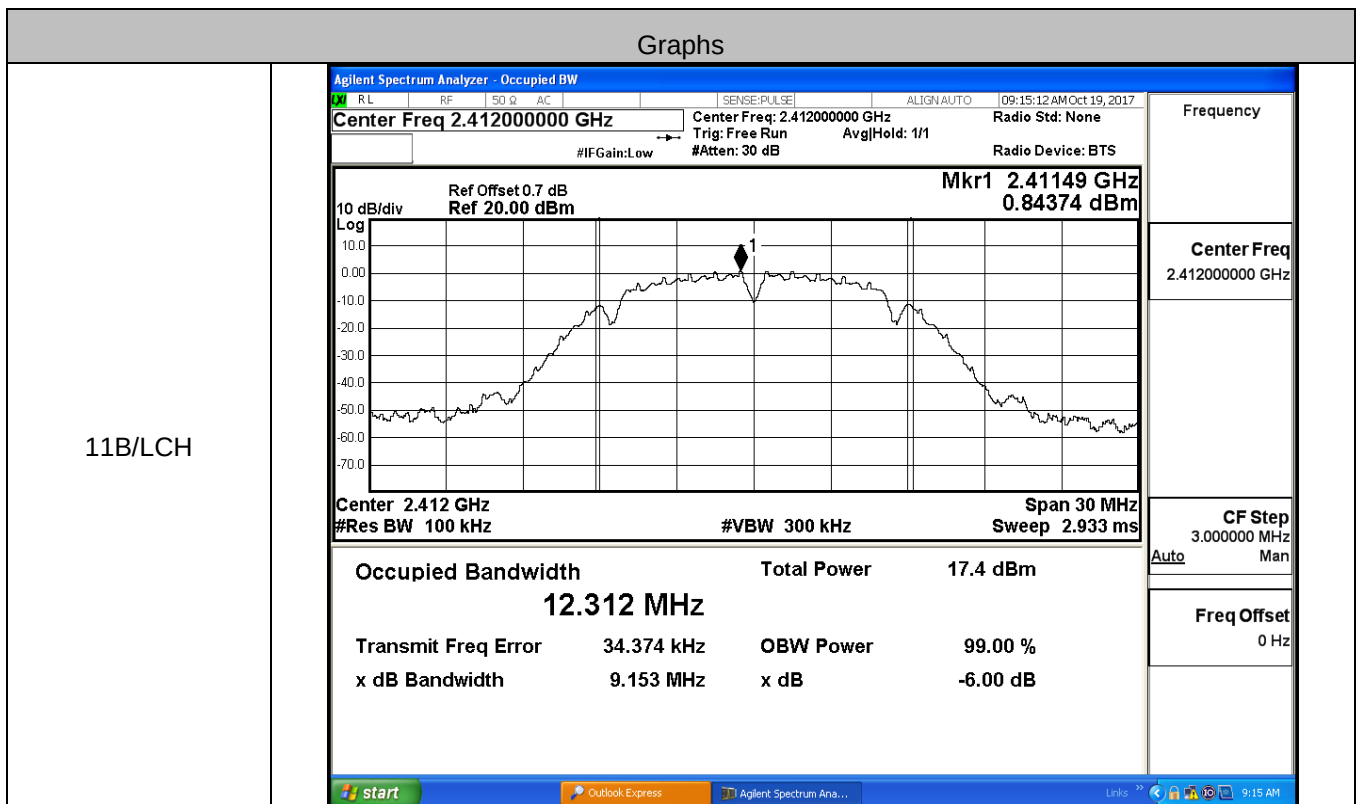
Mode	Channel	Meas.Level [dBm]	Verdict
11B	LCH	13.41	PASS
11B	MCH	13.64	PASS
11B	HCH	13.62	PASS
11G	LCH	14.62	PASS
11G	MCH	14.78	PASS
11G	HCH	14.24	PASS
11N20SISO	LCH	11.91	PASS
11N20SISO	MCH	12.27	PASS
11N20SISO	HCH	12.20	PASS

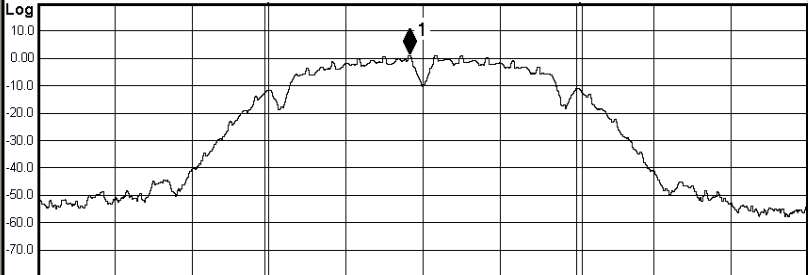
Appendix B): 6dB Bandwidth

Result Table

Mode	Channel	6dB Bandwidth [MHz]	Verdict
11B	LCH	9.153	PASS
11B	MCH	9.150	PASS
11B	HCH	9.151	PASS
11G	LCH	16.42	PASS
11G	MCH	16.40	PASS
11G	HCH	16.62	PASS
11N20SISO	LCH	17.84	PASS
11N20SISO	MCH	17.82	PASS
11N20SISO	HCH	17.84	PASS

Test Graph



11B/MCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 09:17:43 AM Oct 19, 2017 Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Trig: Free Run Avg Hold> 1/1 Radio Std: None Radio Device: BTS #IFGain:Low #Atten: 30 dB 10 dB/div Ref Offset 0.7 dB Ref 20.00 dBm Mkr1 2.43649 GHz 1.0684 dBm  Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth Total Power 17.6 dBm 12.282 MHz Transmit Freq Error 42.618 kHz OBW Power 99.00 % x dB Bandwidth 9.150 MHz x dB -6.00 dB start Outlook Express Agilent Spectrum Ana... Links 9:17 AM
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Frequency

Center Freq

2.437000000 GHz

CF Step

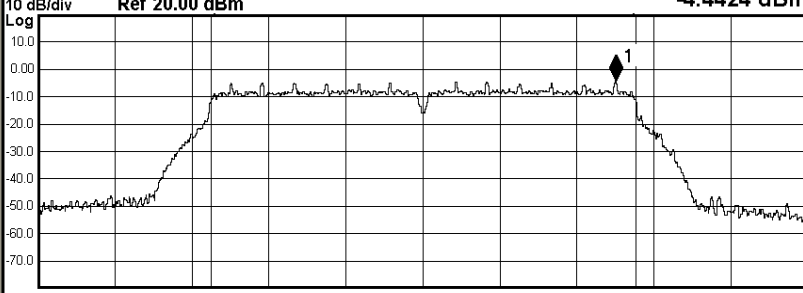
3.000000 MHz

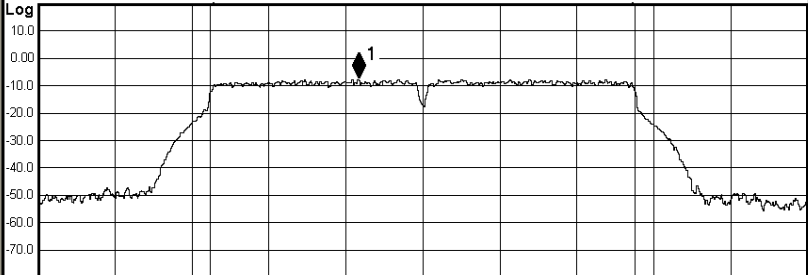
Auto

Man

Freq Offset

0 Hz

11G/LCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 09:23:59 AM Oct 19, 2017 Center Freq 2.412000000 GHz Center Freq: 2.412000000 GHz Trig: Free Run Avg Hold: 1/1 Radio Std: None Radio Device: BTS #IFGain:Low #Atten: 30 dB 10 dB/div Ref Offset 0.7 dB Ref 20.00 dBm Mkr1 2.4195 GHz -4.4424 dBm  Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth Total Power 13.7 dBm 16.501 MHz Transmit Freq Error 25.233 kHz OBW Power 99.00 % x dB Bandwidth 16.42 MHz x dB -6.00 dB start Outlook Express Agilent Spectrum Ana... Links 9:23 AM Frequency Center Freq 2.412000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
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11G/HCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 09:28:15 AM Oct 19, 2017 Center Freq 2.462000000 GHz Center Freq: 2.462000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS #IFGain:Low #Atten: 30 dB 10 dB/div Ref Offset 0.7 dB Ref 20.00 dBm Mkr1 2.45951 GHz -7.7544 dBm  Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth Total Power 12.9 dBm 16.538 MHz Transmit Freq Error -6.183 kHz OBW Power 99.00 % x dB Bandwidth 16.62 MHz x dB -6.00 dB start Outlook Express Agilent Spectrum Ana... Links 9:28 AM
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Frequency

Center Freq

2.462000000 GHz

CF Step

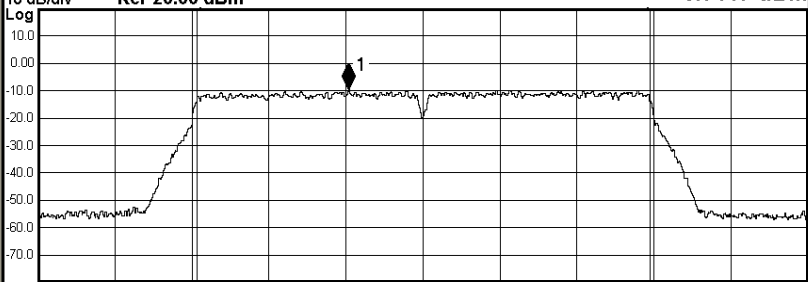
3.000000 MHz

Auto

Man

Freq Offset

0 Hz

11N20SISO/MCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 09:32:52 AM Oct 19, 2017 Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Trig: Free Run Avg Hold: 1/1 Radio Std: None Radio Device: BTS #IFGain:Low #Atten: 30 dB 10 dB/div Ref Offset 0.7 dB Ref 20.00 dBm Mkr1 2.43412 GHz -9.7117 dBm  Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth Total Power 10.7 dBm 17.662 MHz Transmit Freq Error 25.770 kHz OBW Power 99.00 % x dB Bandwidth 17.82 MHz x dB -6.00 dB start Outlook Express Agilent Spectrum Ana... Links 9:32 AM
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Frequency

Center Freq

2.437000000 GHz

CF Step

3.000000 MHz

Auto

Man

Freq Offset

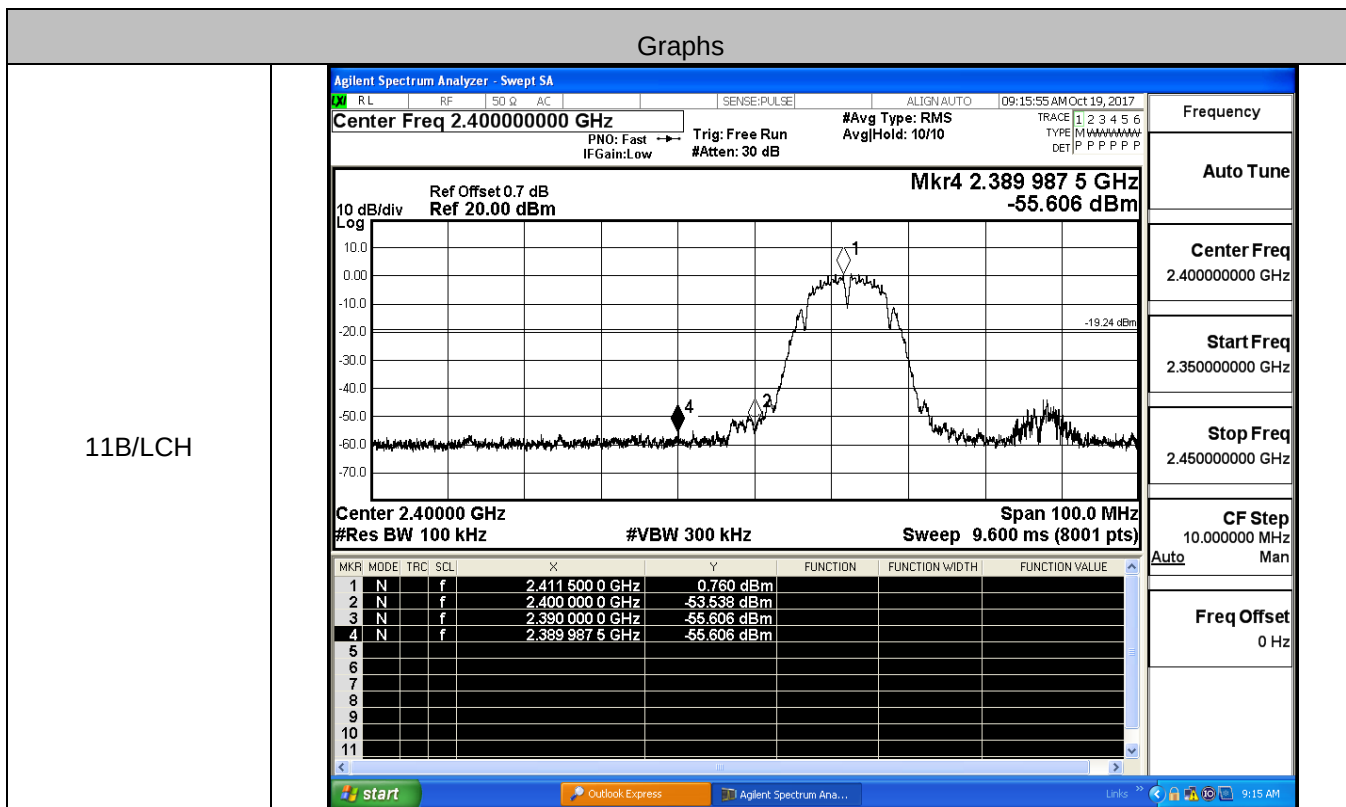
0 Hz

Appendix D): Band-edge for RF Conducted Emissions

Result Table

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	0.760	-55.606	-19.24	PASS
11B	HCH	1.055	-55.381	-18.95	PASS
11G	LCH	-4.997	-54.368	-25	PASS
11G	HCH	-7.877	-55.437	-27.88	PASS
11N20SISO	LCH	-9.915	-56.283	-29.92	PASS
11N20SISO	HCH	-9.890	-55.020	-29.89	PASS
11N40SISO	LCH	-14.847	-56.423	-34.85	PASS
11N40SISO	HCH	-14.570	-56.183	-34.57	PASS

Test Graph



11B/HCH

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.483500000 GHz

Ref Offset 0.7 dB
Ref 20.00 dBm

Mkr4 2.484 050 0 GHz
-55.381 dBm

10 dB/div

Log

Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 9.600 ms (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.461 500 0 GHz	1.055 dBm			
2	N	f		2.483 500 0 GHz	-58.612 dBm			
3	N	f		2.500 000 0 GHz	-60.028 dBm			
4	N	f		2.484 050 0 GHz	-55.381 dBm			
5								
6								
7								
8								
9								
10								
11								

start Outlook Express Agilent Spectrum Ana... 9:20 AM

Frequency

Auto Tune

Center Freq
2.483500000 GHz

Start Freq
2.433500000 GHz

Stop Freq
2.533500000 GHz

CF Step
10.000000 MHz
Man

Freq Offset
0 Hz

11G/LCH

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.400000000 GHz

Ref Offset 0.7 dB
Ref 20.00 dBm

Mkr4 2.385 712 5 GHz
-54.368 dBm

10 dB/div

Log

Center 2.40000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 9.600 ms (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.410 737 5 GHz	-4.997 dBm			
2	N	f		2.400 000 0 GHz	-51.999 dBm			
3	N	f		2.390 000 0 GHz	-58.060 dBm			
4	N	f		2.385 712 5 GHz	-54.368 dBm			
5								
6								
7								
8								
9								
10								
11								

start Outlook Express Agilent Spectrum Ana... 9:24 AM

Frequency

Auto Tune

Center Freq
2.400000000 GHz

Start Freq
2.350000000 GHz

Stop Freq
2.450000000 GHz

CF Step
10.000000 MHz
Man

Freq Offset
0 Hz

11G/HCH

11N20SISO/LCH

11G/HCH Screenshot Data:

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.459 500 0 GHz	-7.877 dBm			
2	N	f		2.483 500 0 GHz	-57.515 dBm			
3	N	f		2.500 000 0 GHz	-58.064 dBm			
4	N	f		2.485 912 5 GHz	-55.437 dBm			

11N20SISO/LCH Screenshot Data:

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.409 137 5 GHz	-9.915 dBm			
2	N	f		2.400 000 0 GHz	-57.147 dBm			
3	N	f		2.390 000 0 GHz	-58.959 dBm			
4	N	f		2.382 062 5 GHz	-56.283 dBm			

11N20SISO/HCH

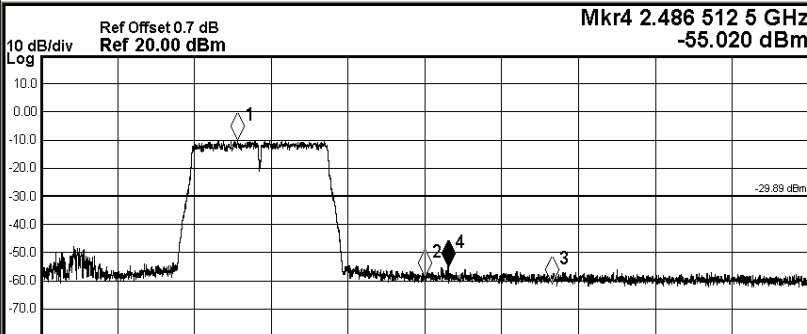
Agilent Spectrum Analyzer - Swept SA

Center Freq 2.483500000 GHz

Ref Offset 0.7 dB
Ref 20.00 dBm

Mkr4 2.486 512 5 GHz
-55.020 dBm

10 dB/div
Log



Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 9.600 ms (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.459 137 5 GHz	-9.890 dBm			
2	N	f		2.483 500 0 GHz	-58.489 dBm			
3	N	f		2.500 000 0 GHz	-61.066 dBm			
4	N	f		2.486 512 5 GHz	-55.020 dBm			
5								
6								
7								
8								
9								
10								
11								

start Outlook Express Agilent Spectrum Ana... 9:35 AM

11N40SISO/LCH

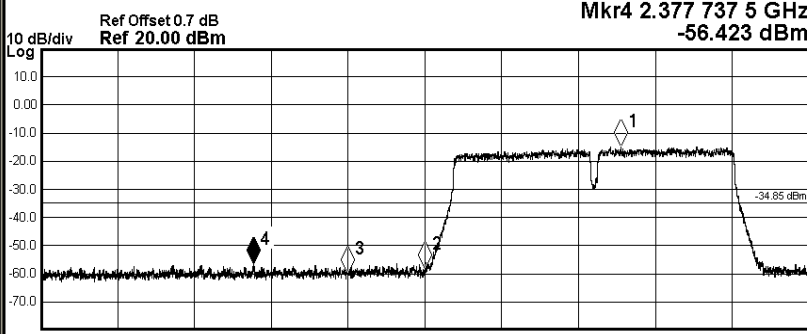
Agilent Spectrum Analyzer - Swept SA

Center Freq 2.400000000 GHz

Ref Offset 0.7 dB
Ref 20.00 dBm

Mkr4 2.377 737 5 GHz
-56.423 dBm

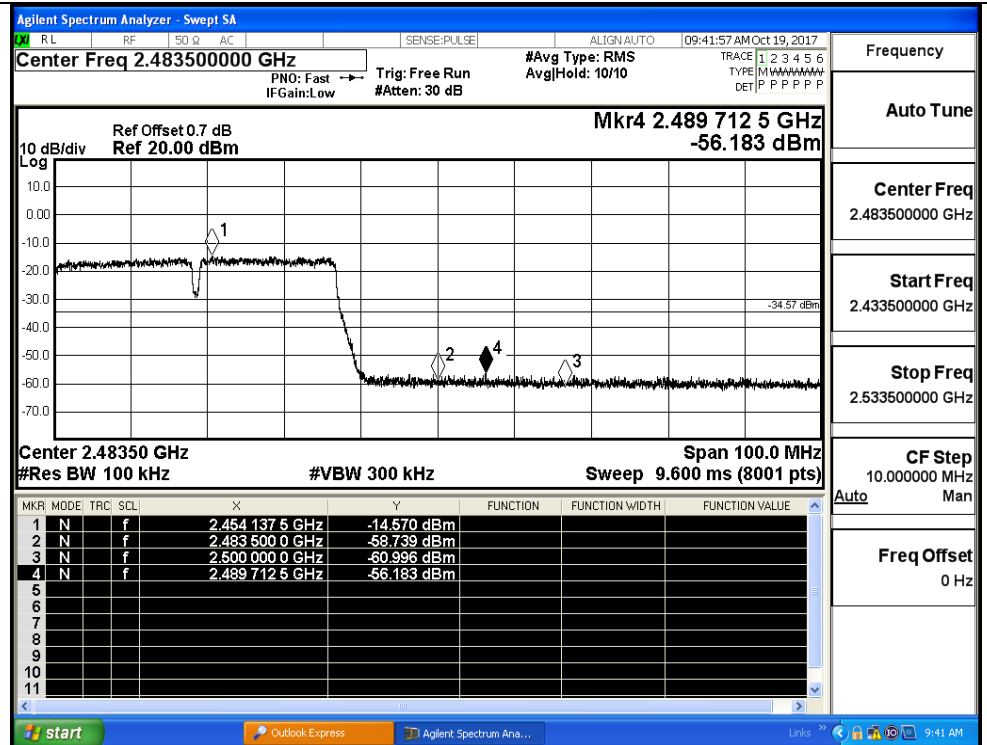
10 dB/div
Log



Center 2.40000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 9.600 ms (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.425 512 5 GHz	-14.847 dBm			
2	N	f		2.400 000 0 GHz	-58.196 dBm			
3	N	f		2.390 000 0 GHz	-59.889 dBm			
4	N	f		2.377 737 5 GHz	-56.423 dBm			
5								
6								
7								
8								
9								
10								
11								

start Outlook Express Agilent Spectrum Ana... 9:37 AM

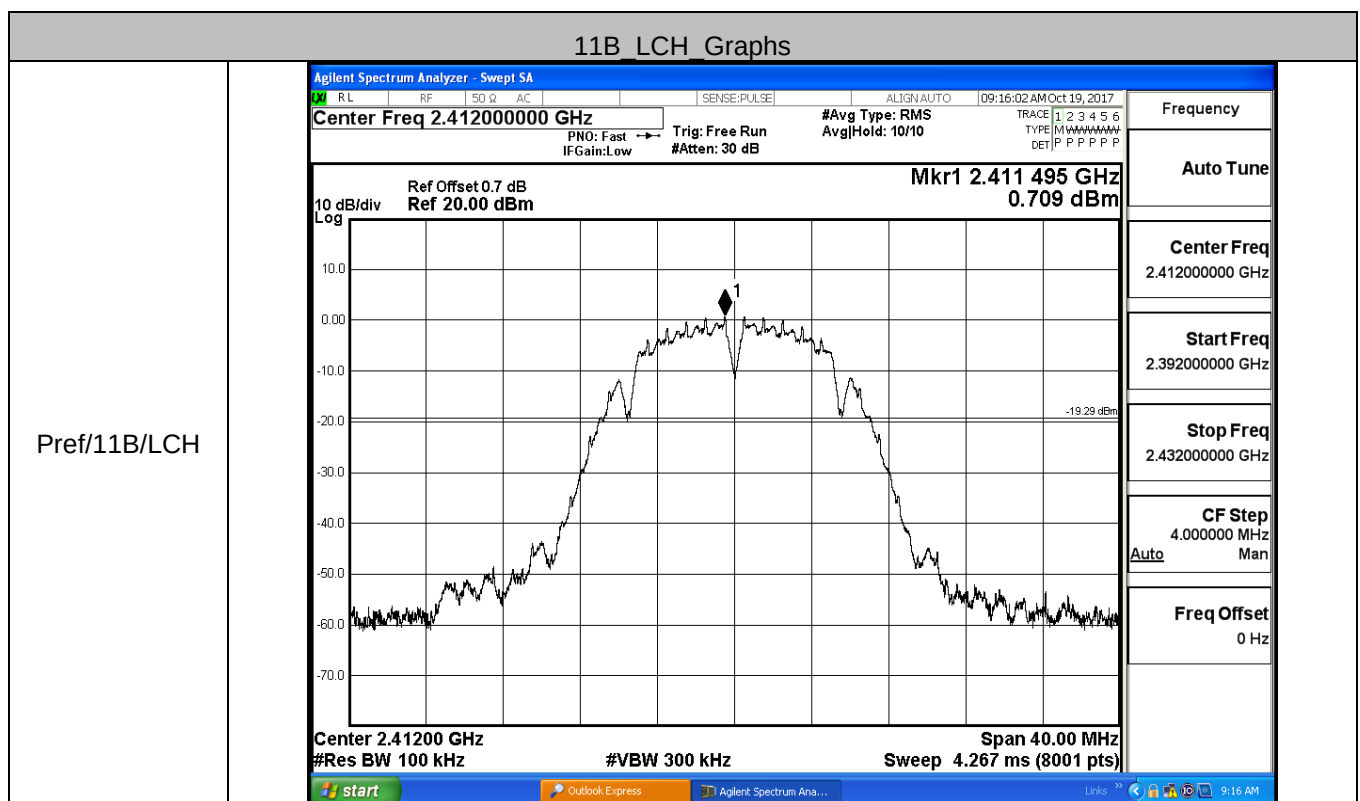


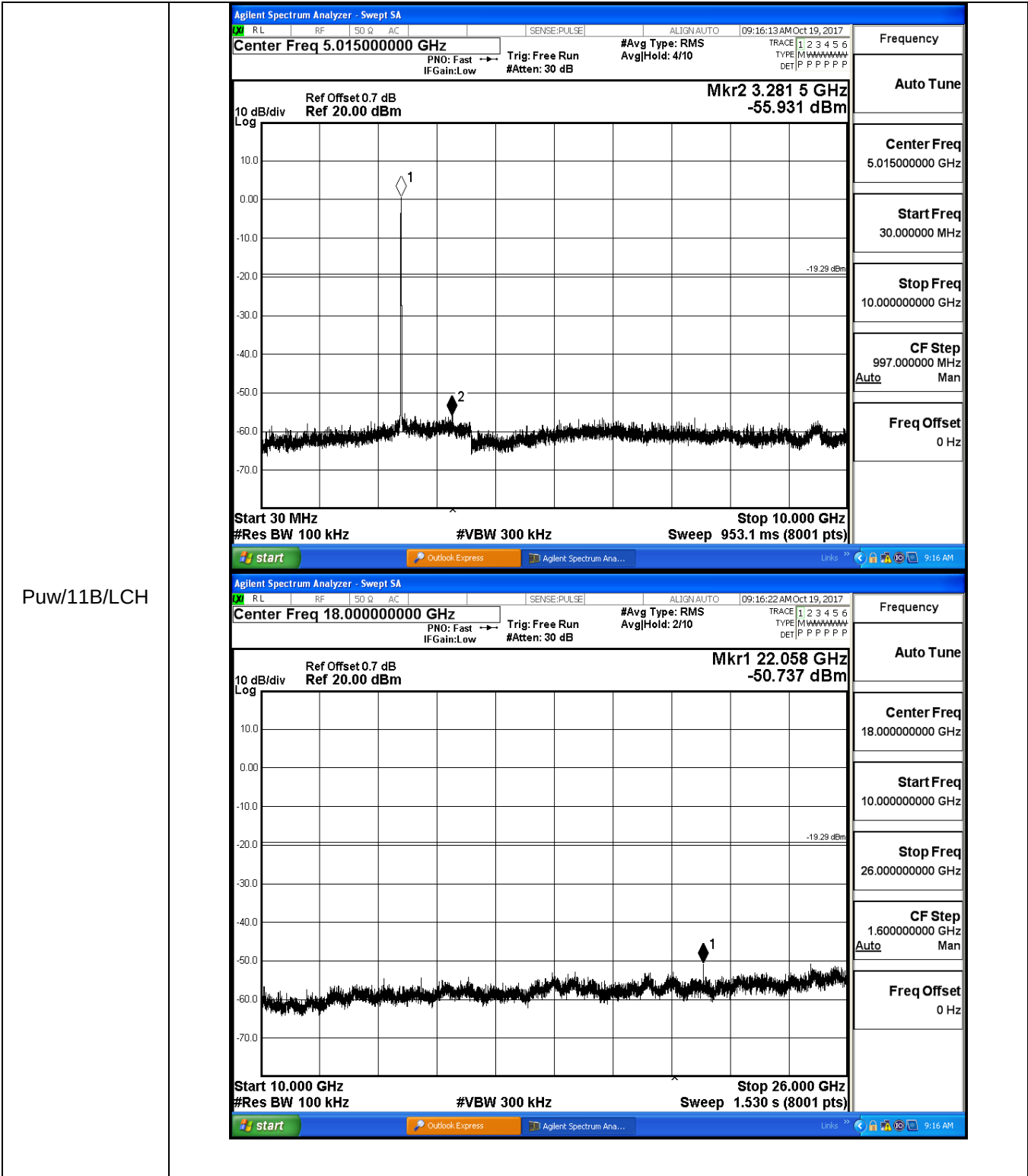
Appendix E): RF Conducted Spurious Emissions

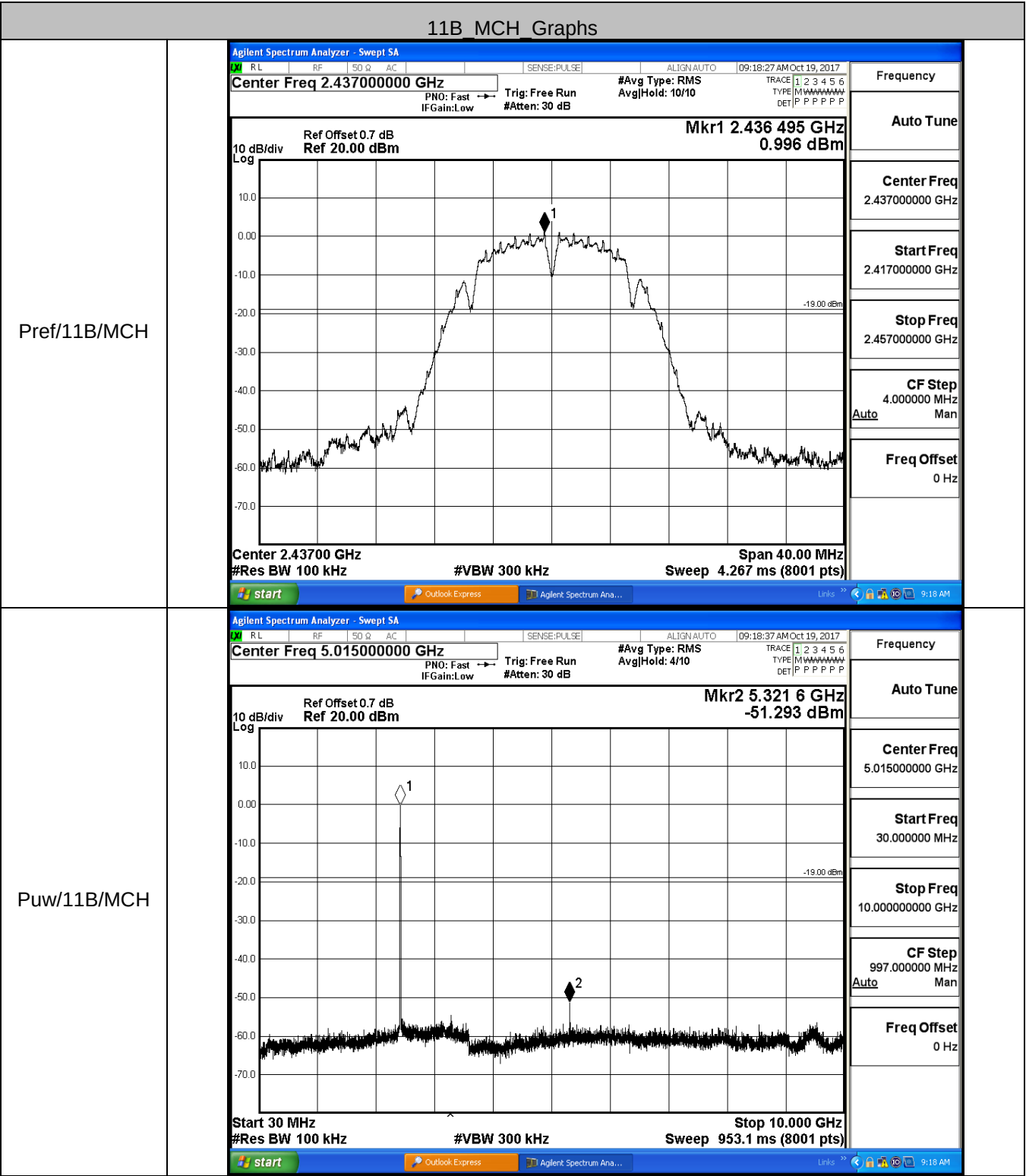
Result Table

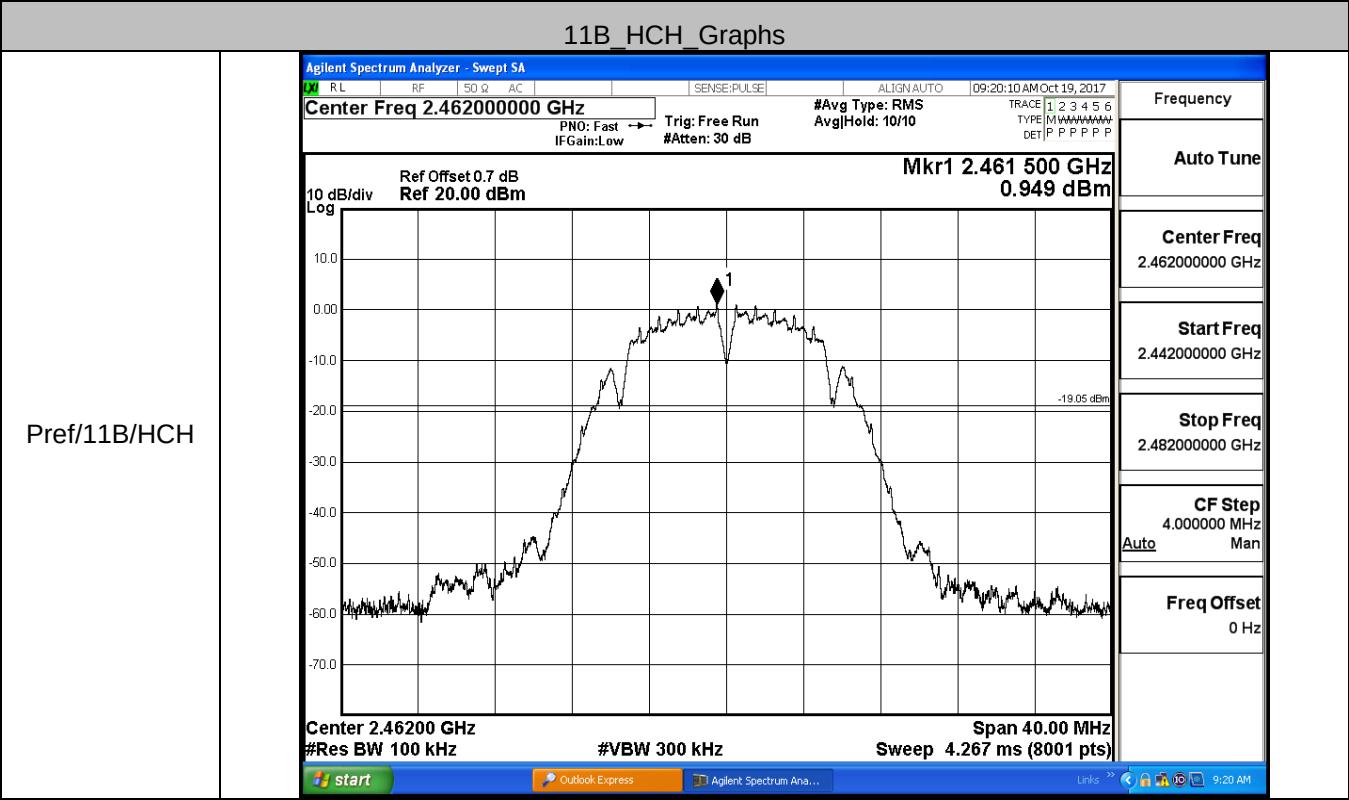
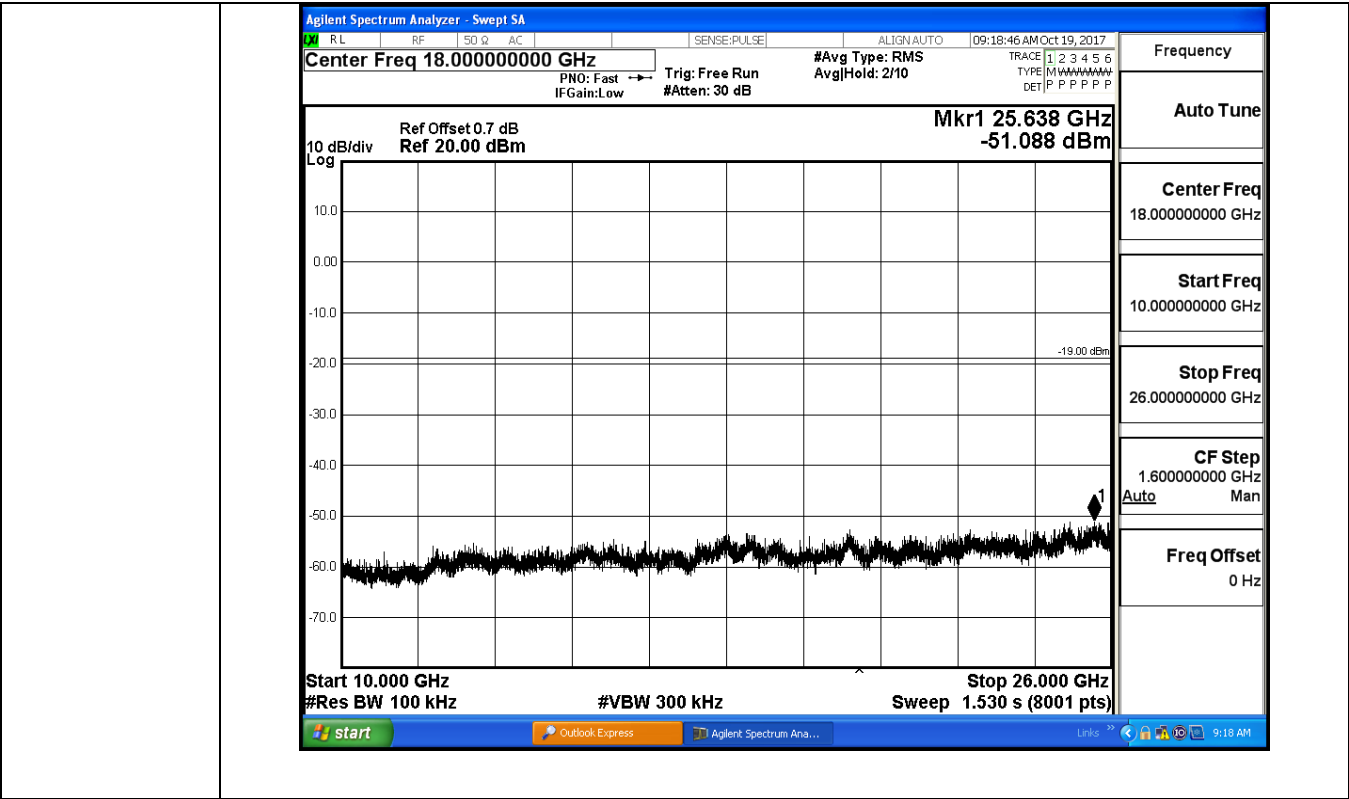
Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
11B	LCH	0.709	<Limit	PASS
11B	MCH	0.996	<Limit	PASS
11B	HCH	0.949	<Limit	PASS
11G	LCH	-4.240	<Limit	PASS
11G	MCH	-4.318	<Limit	PASS
11G	HCH	-7.926	<Limit	PASS
11N20SISO	LCH	-10.09	<Limit	PASS
11N20SISO	MCH	-9.872	<Limit	PASS
11N20SISO	HCH	-9.940	<Limit	PASS

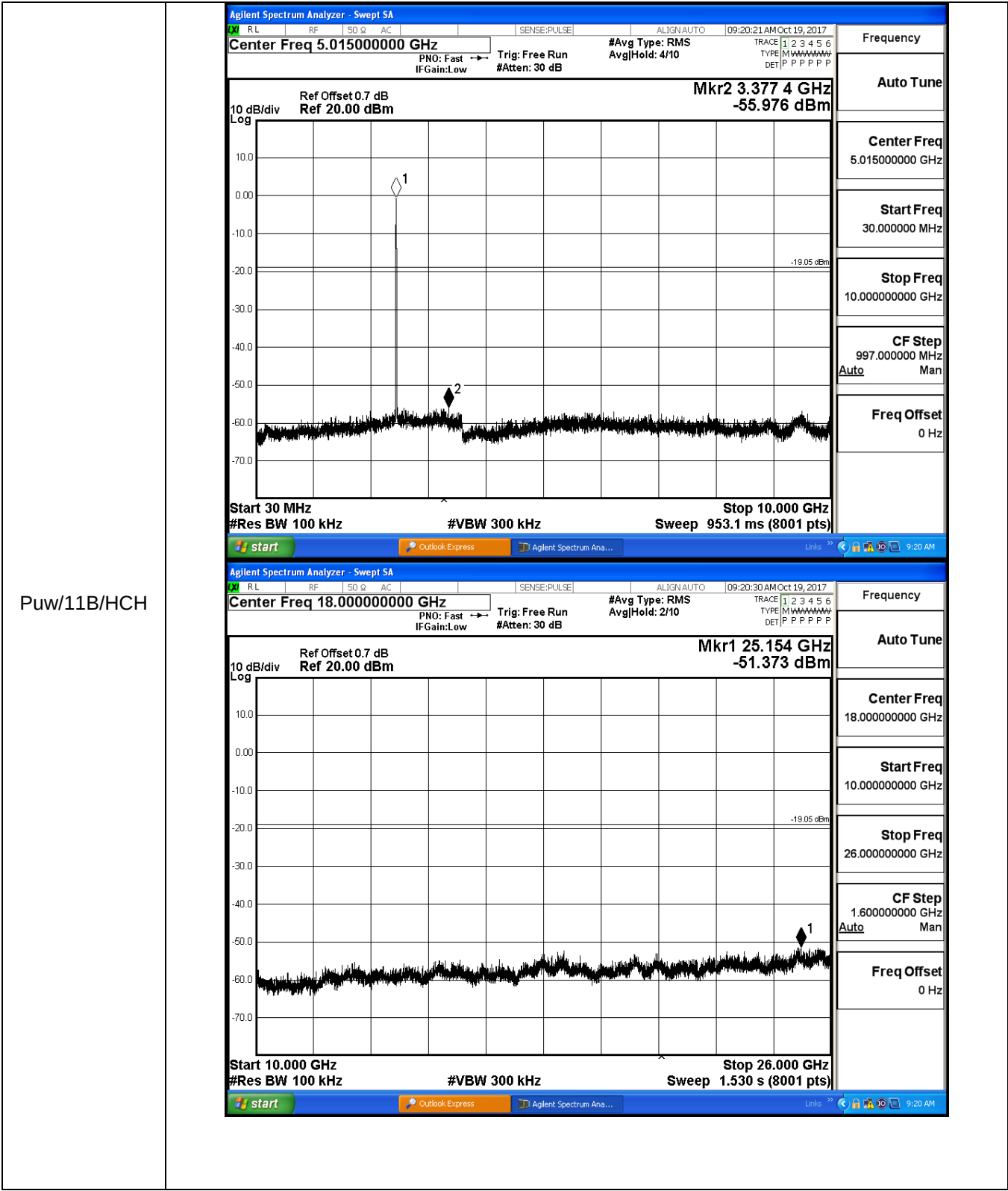
Test Graph

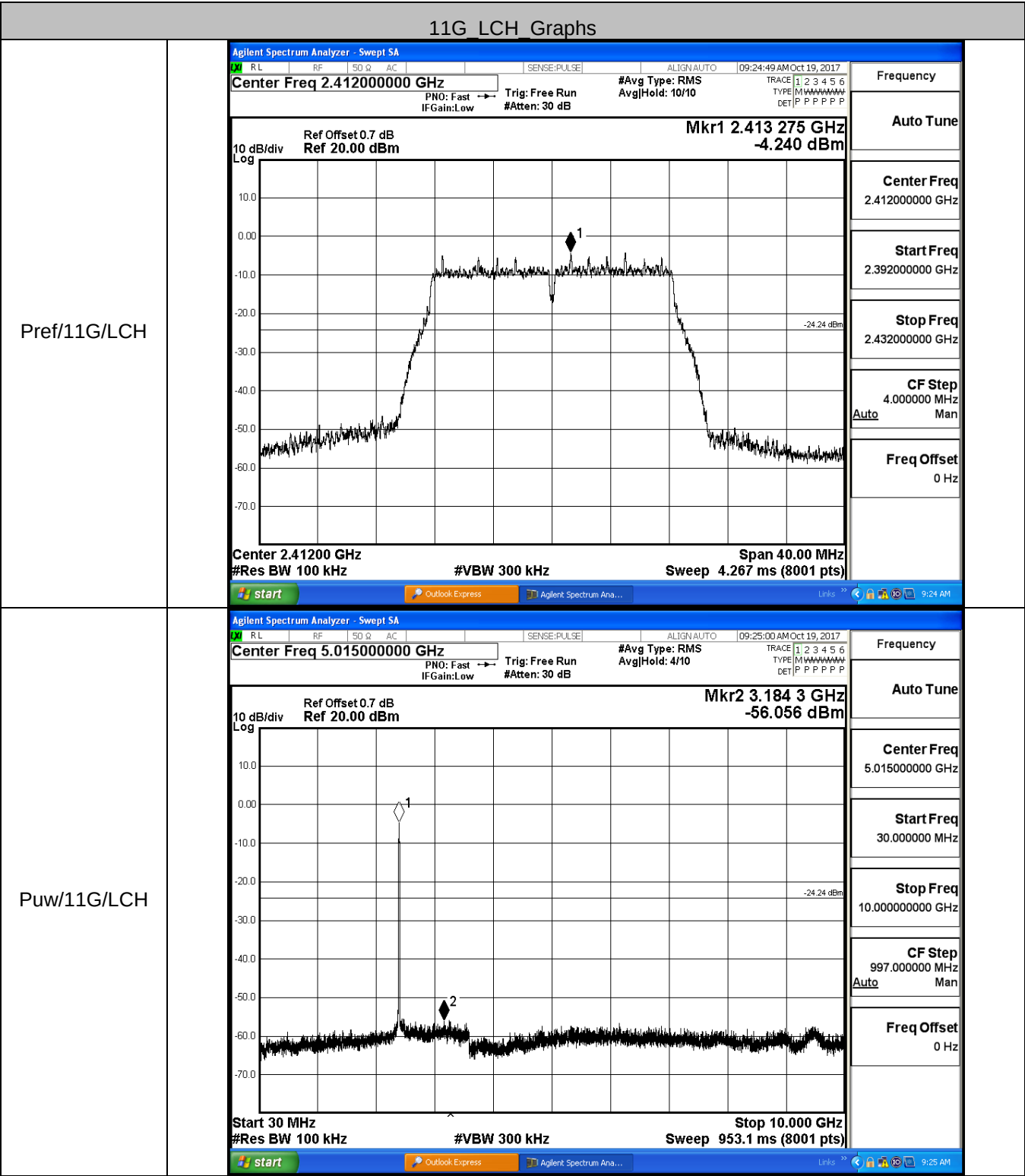


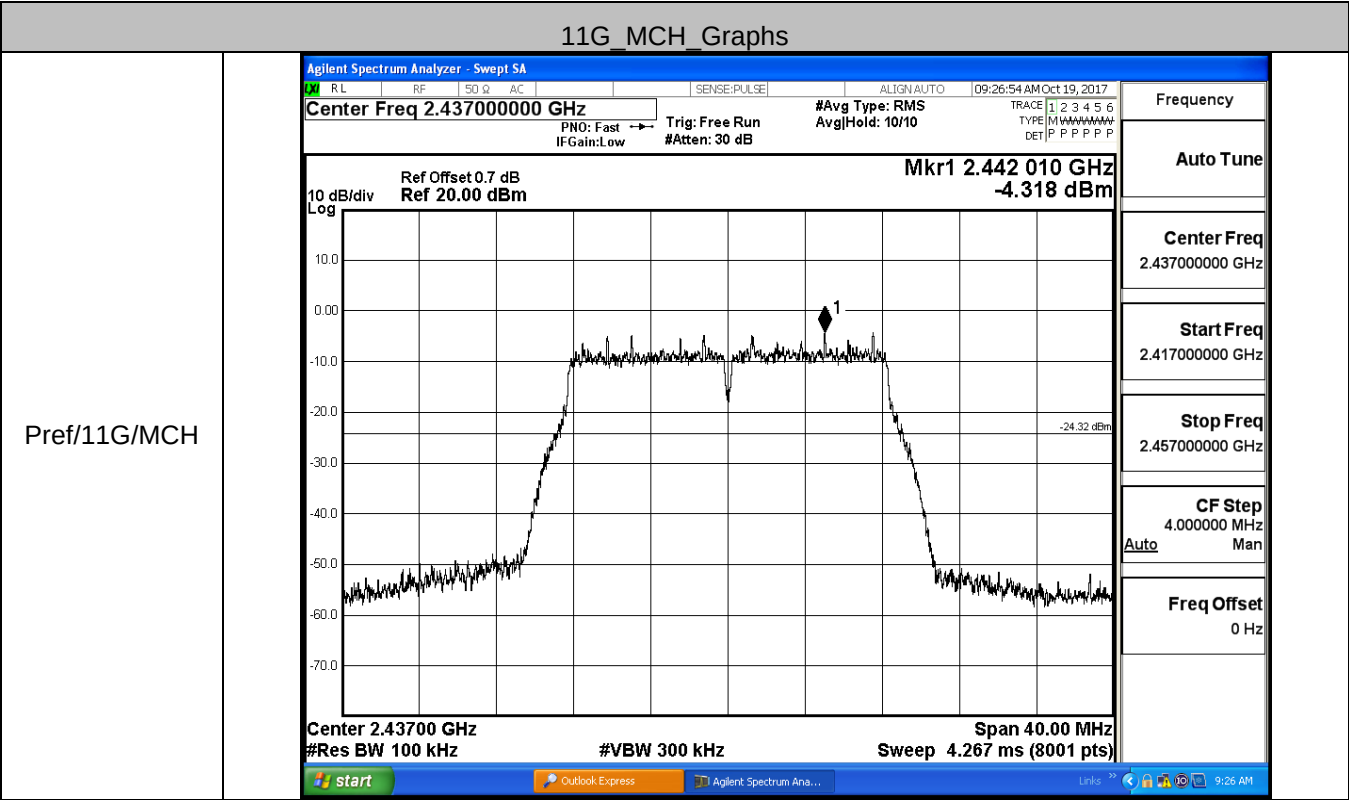
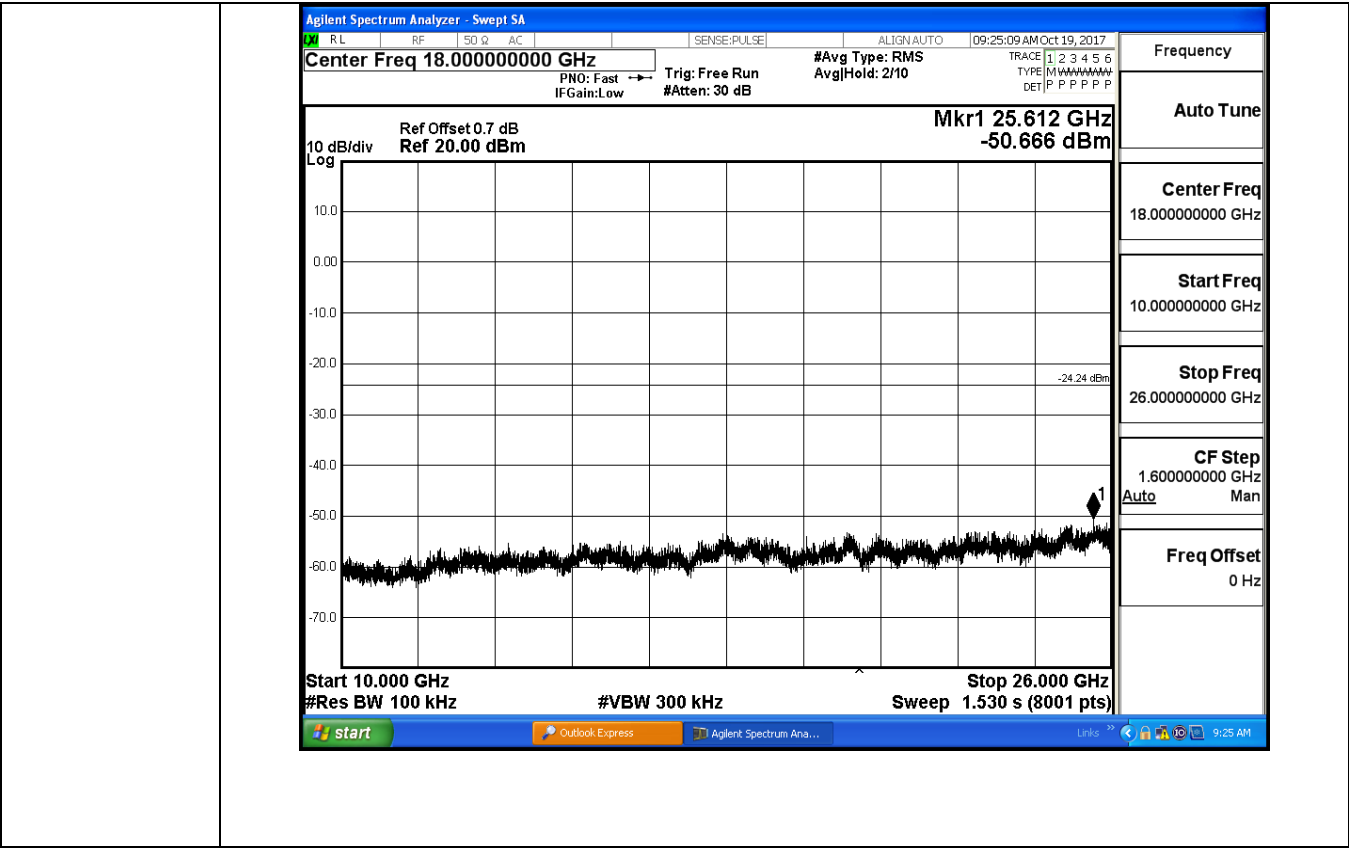




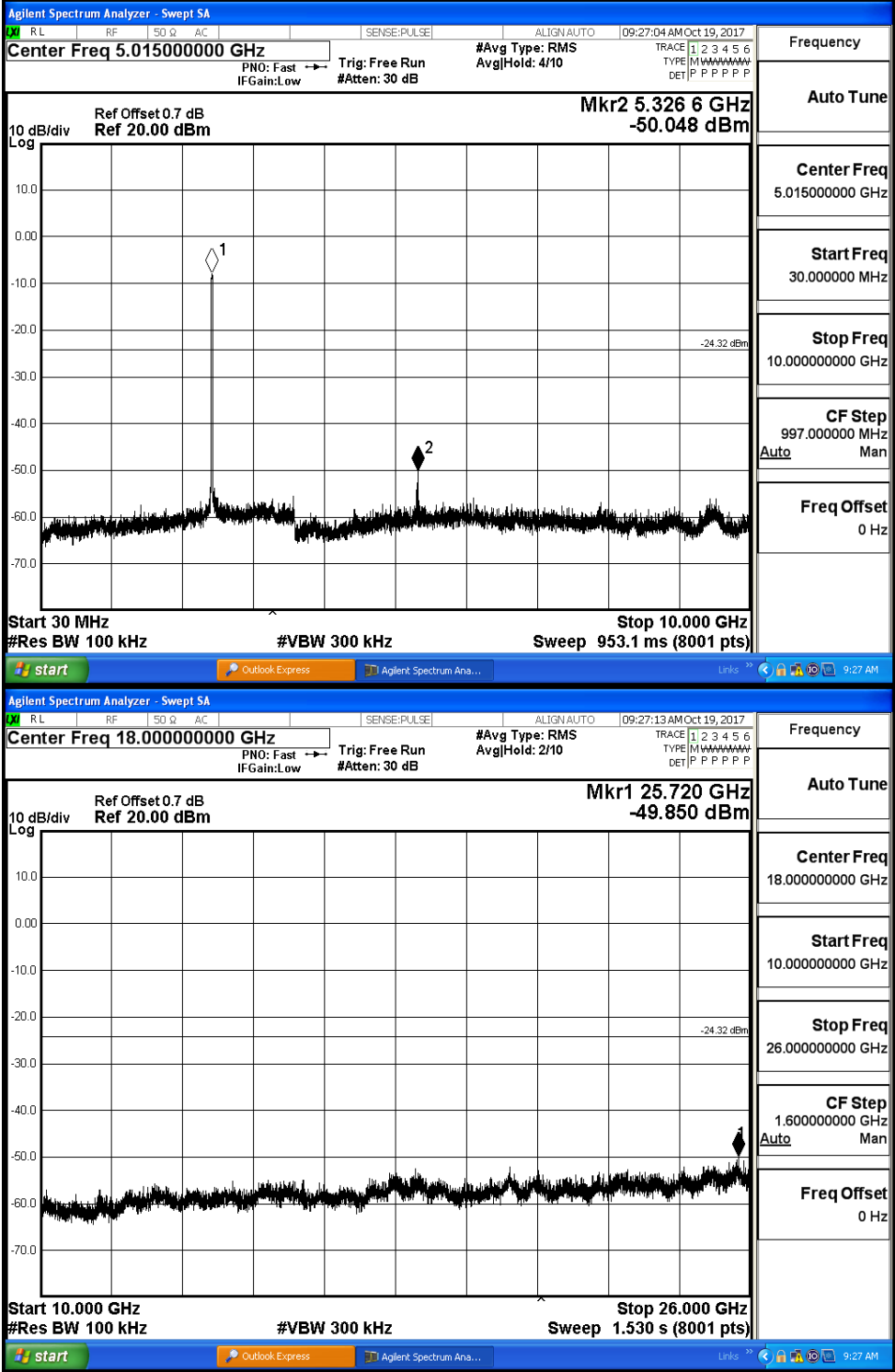


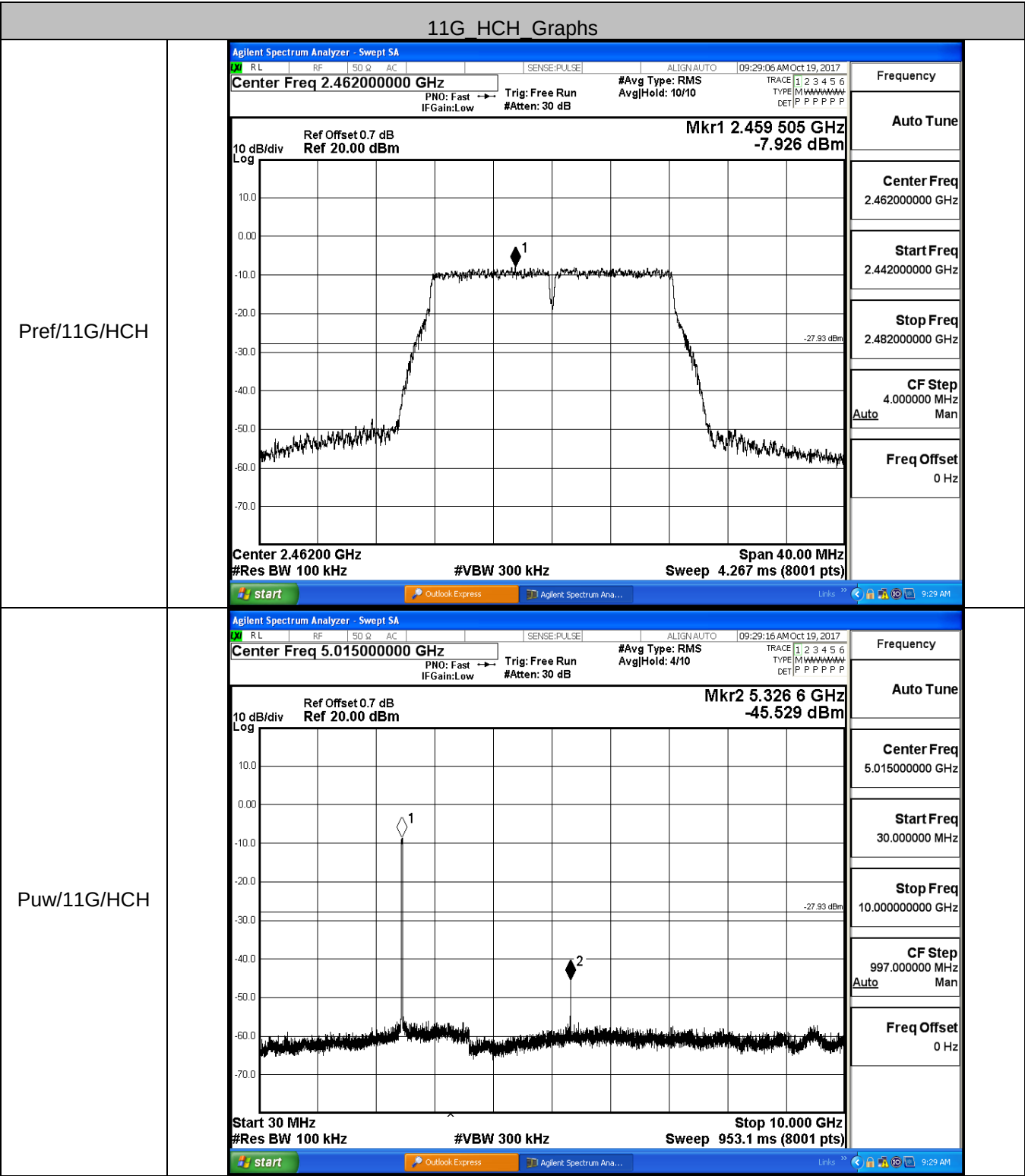


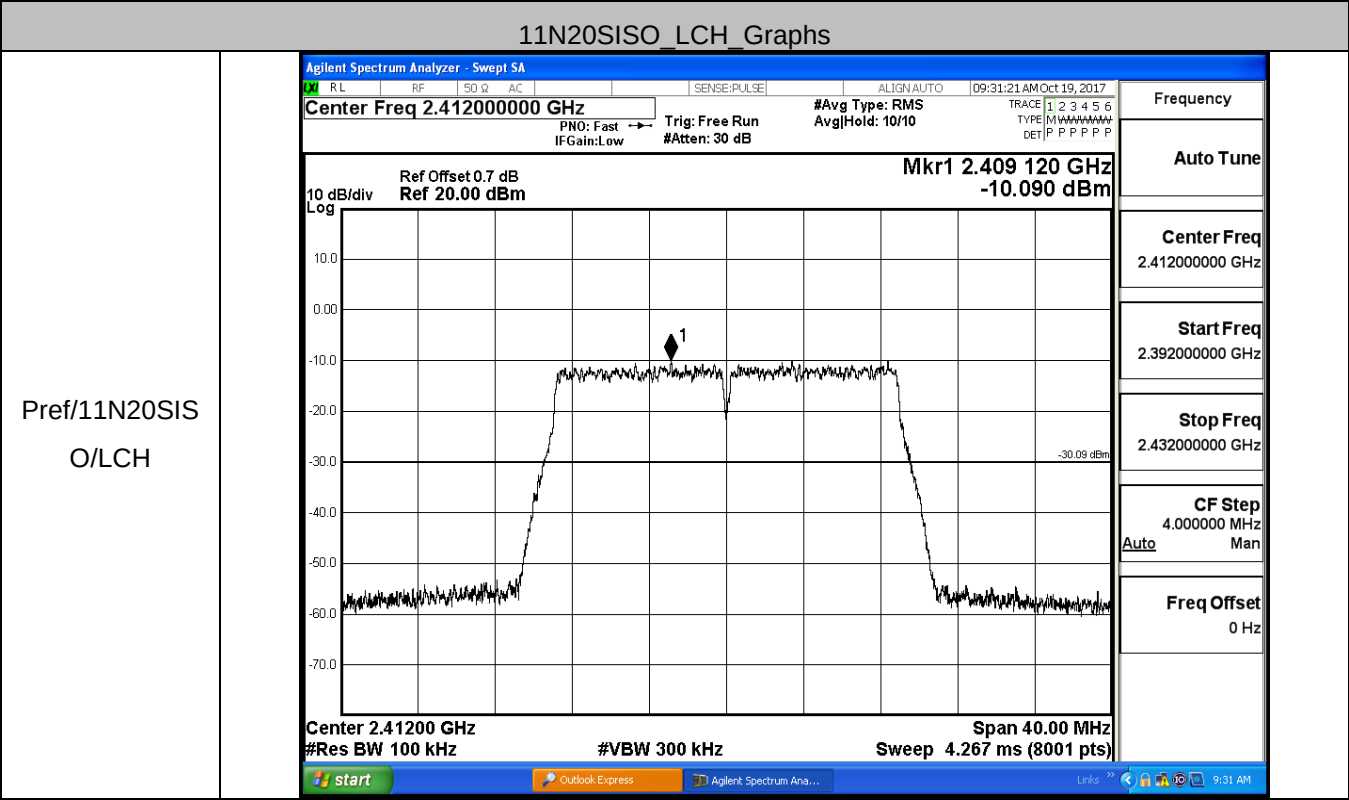
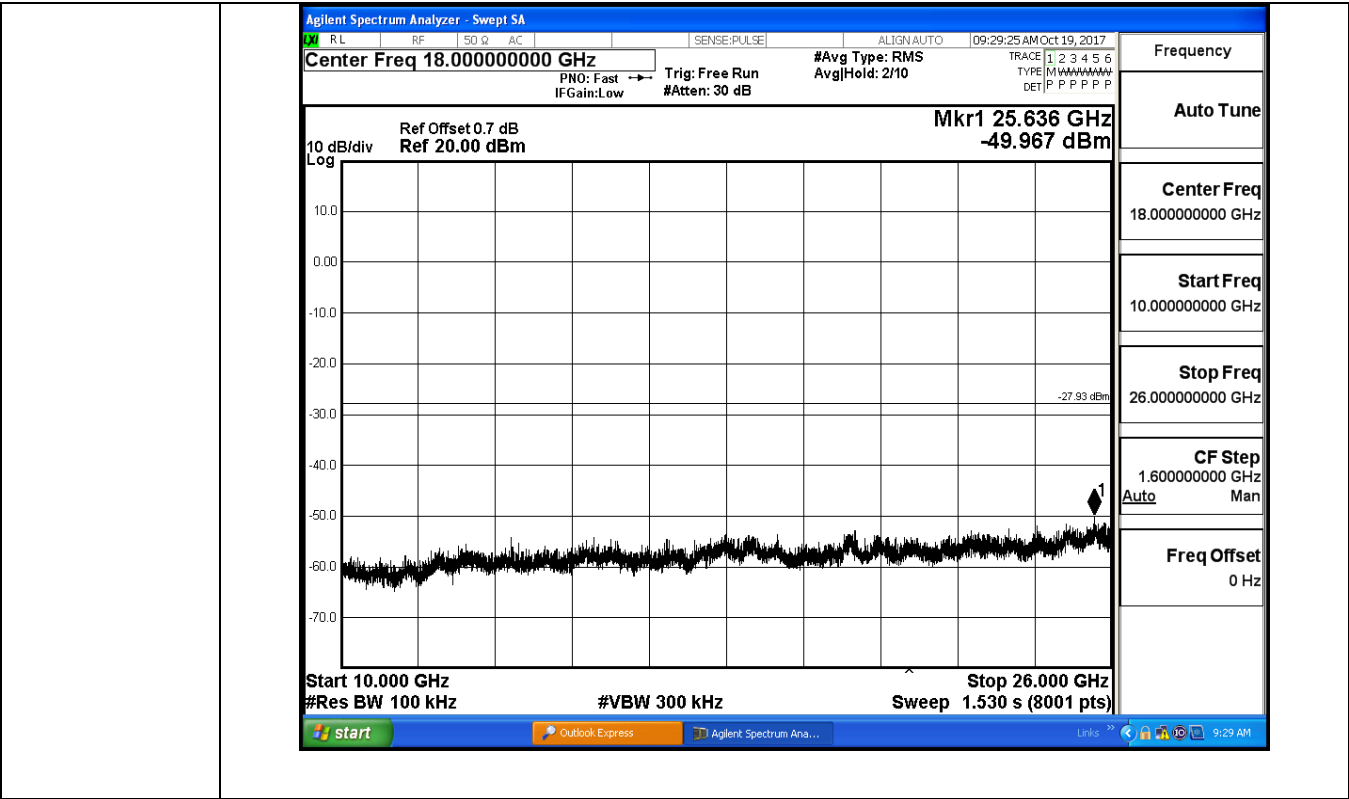




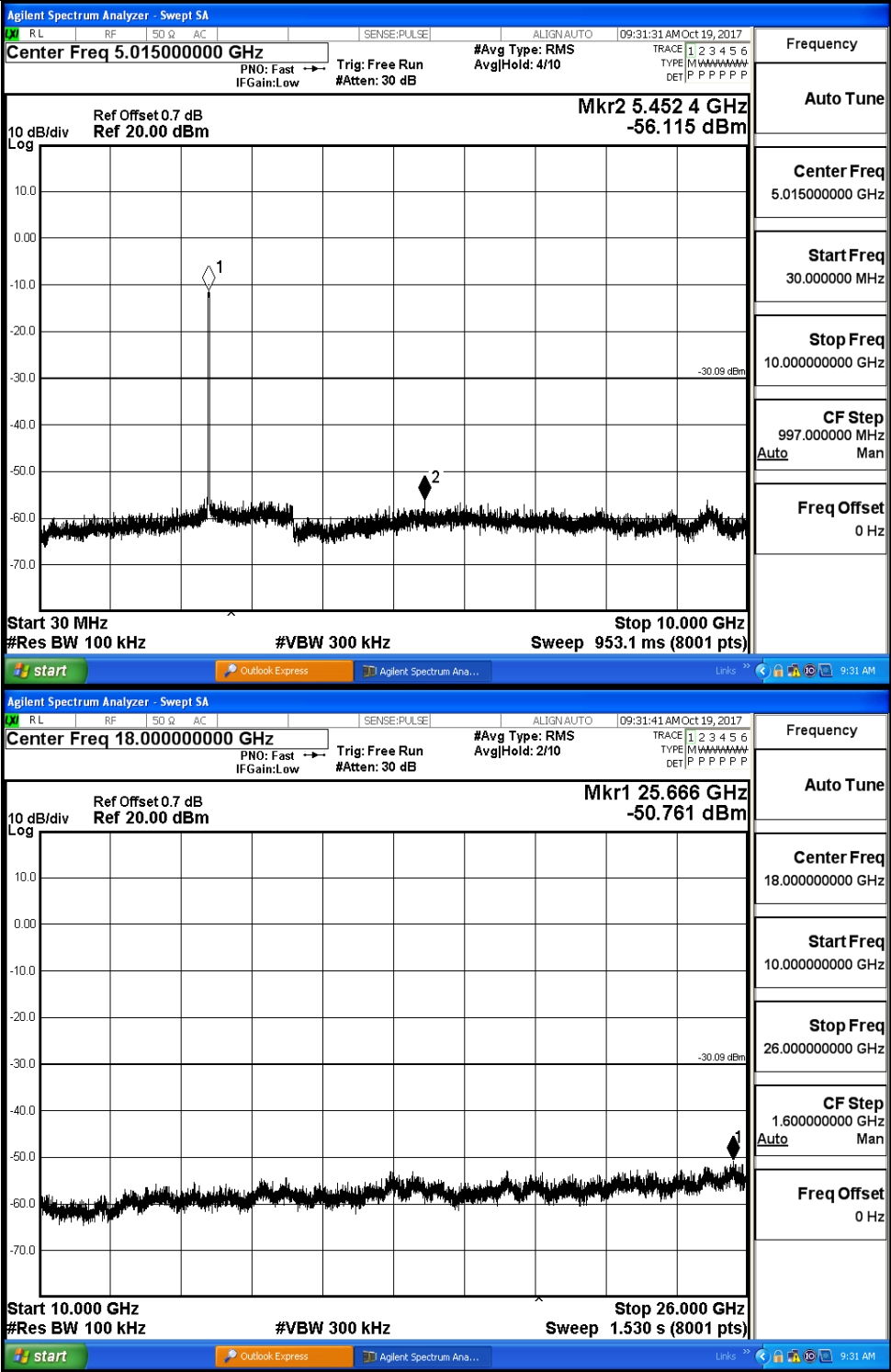
Puw/11G/MCH

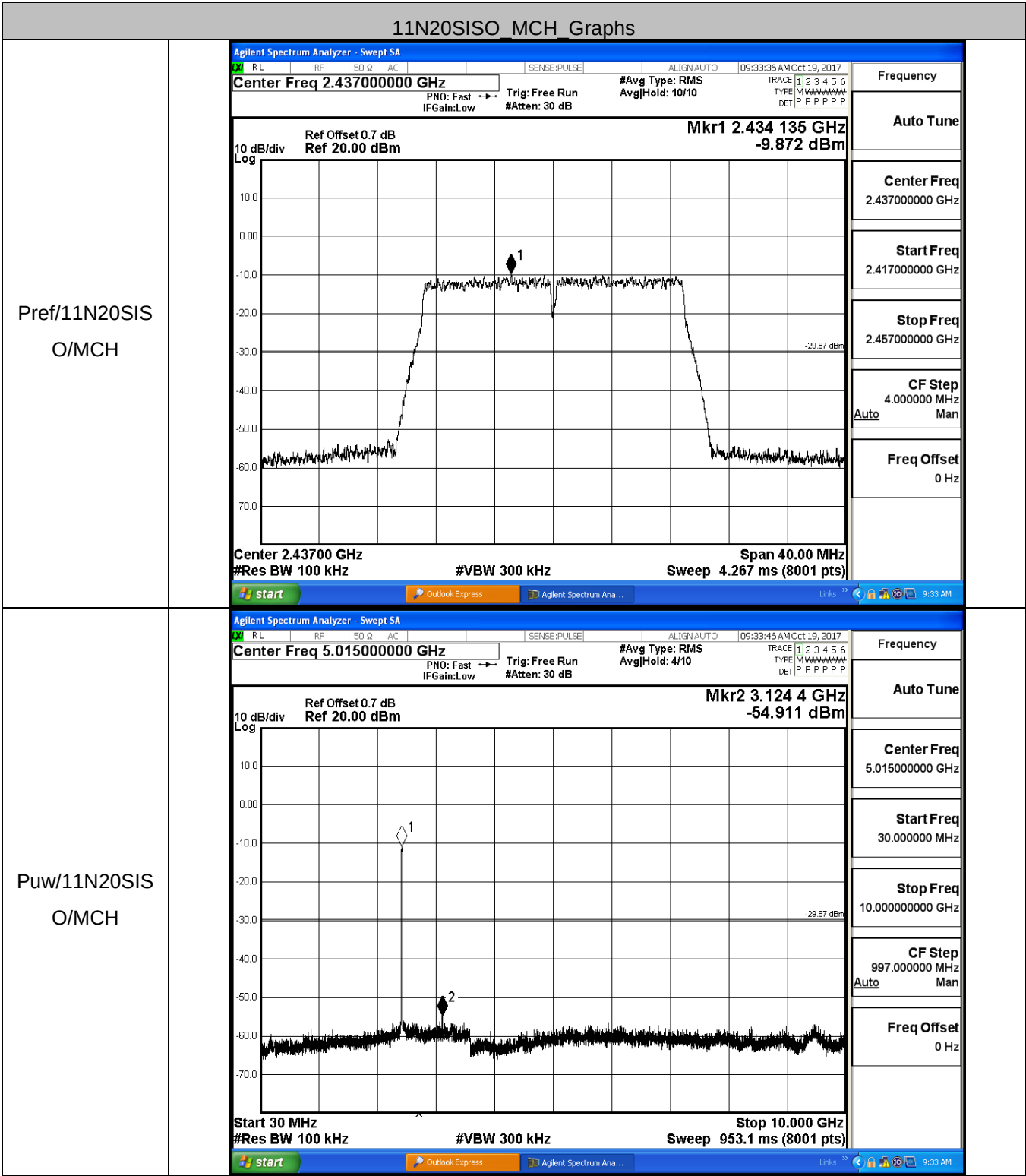


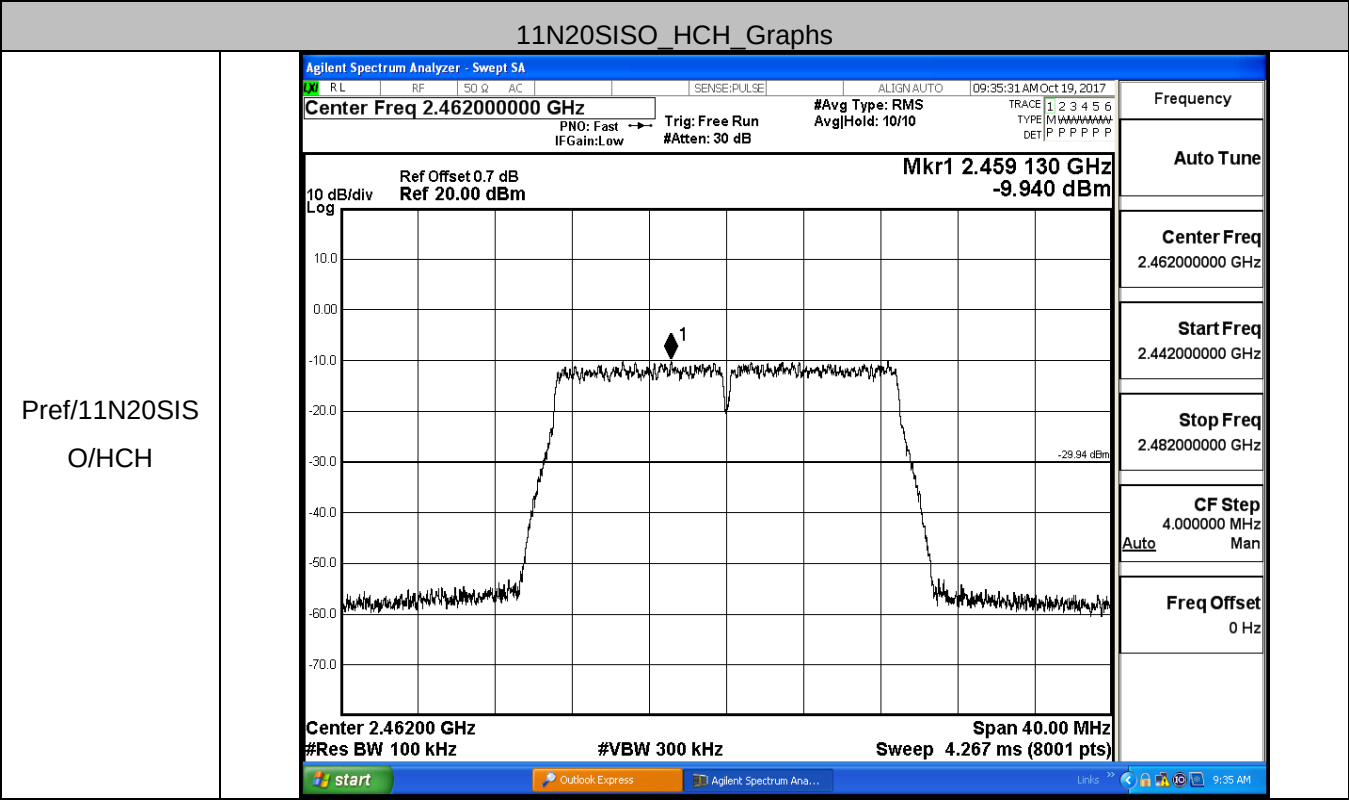
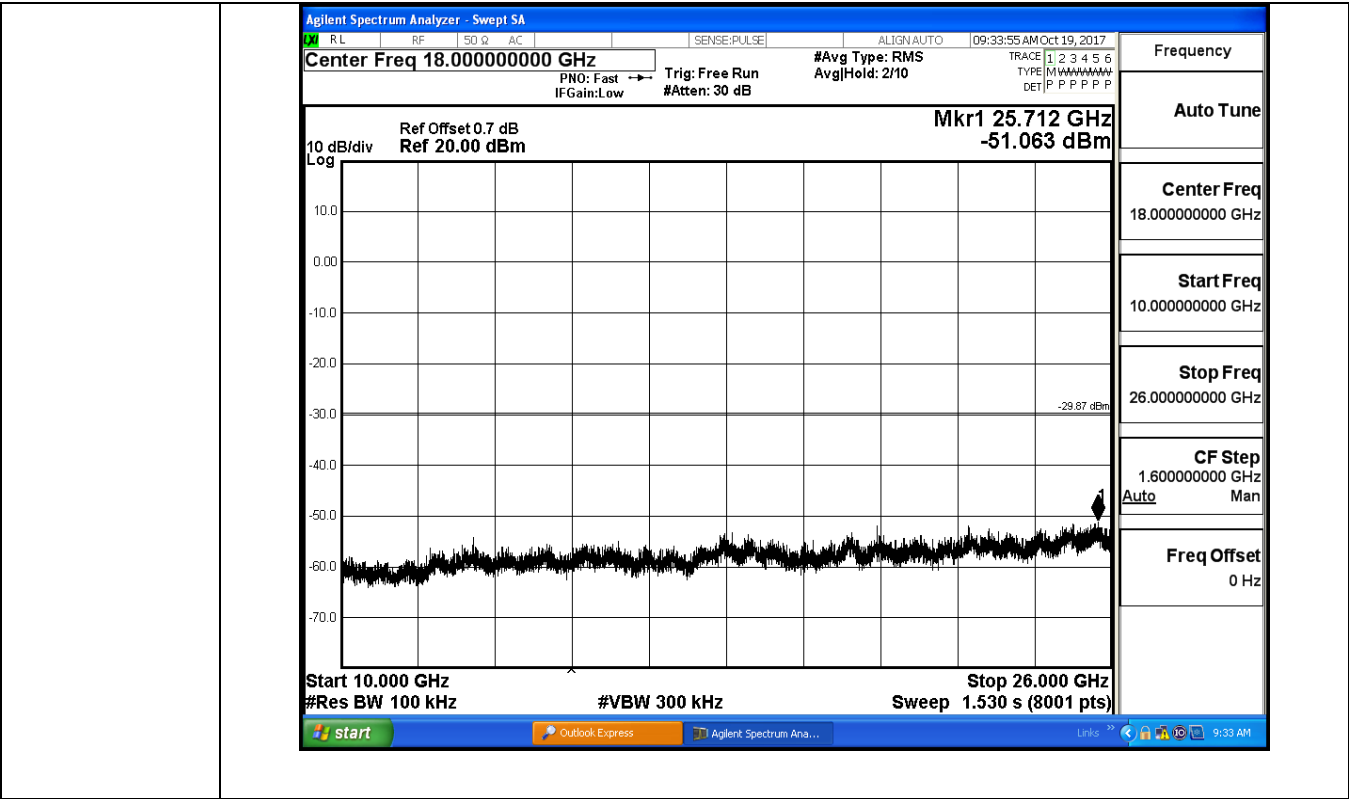




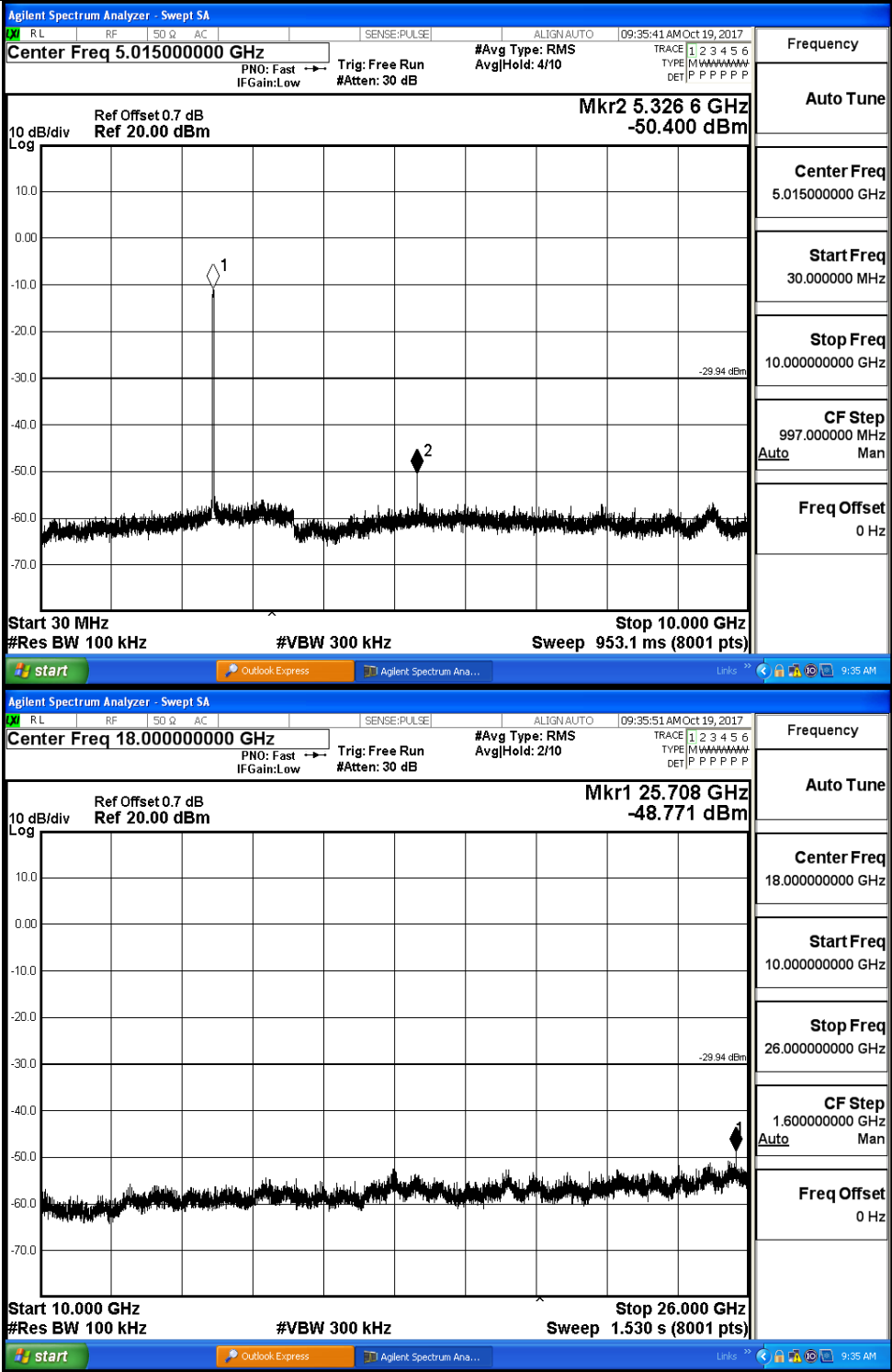
/11N20SISO/L
CH







Puw/11N20SIS
O/HCH

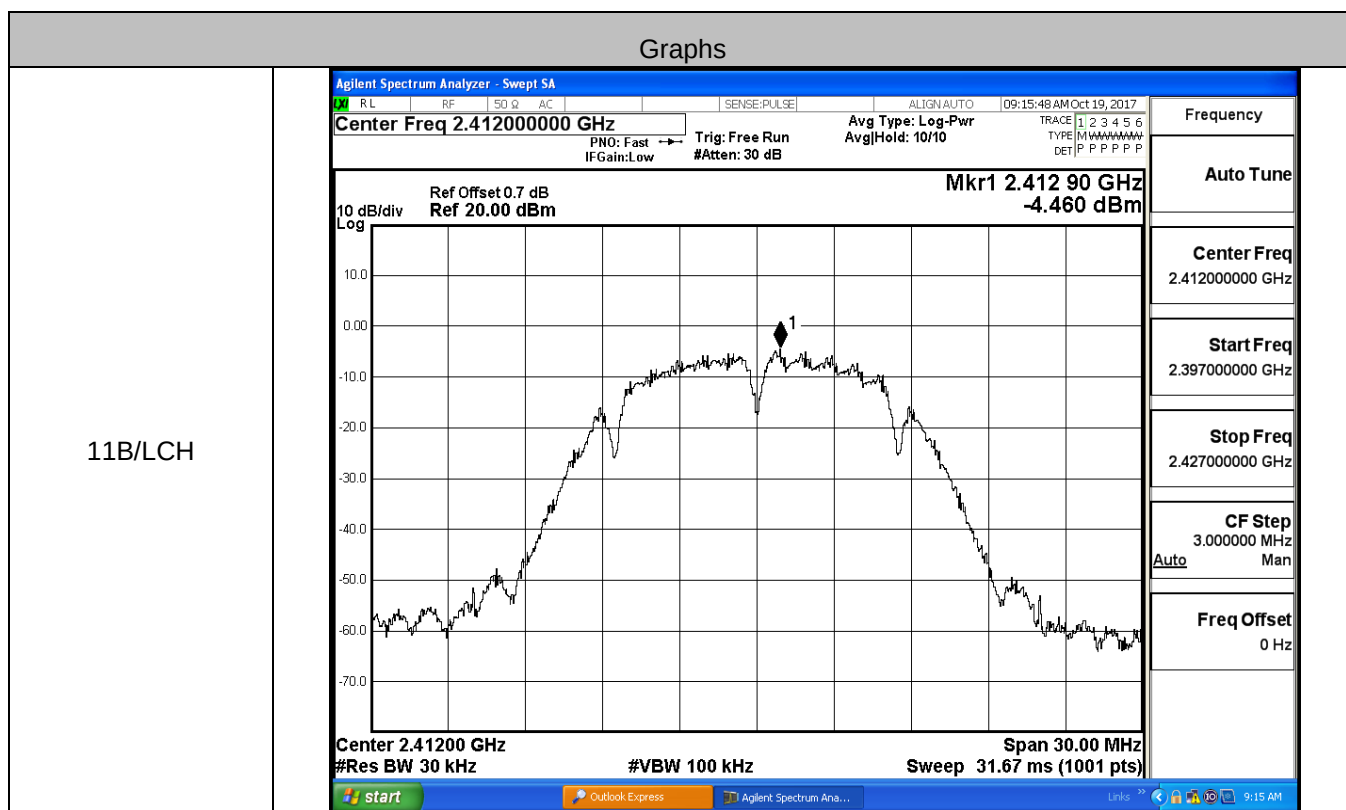


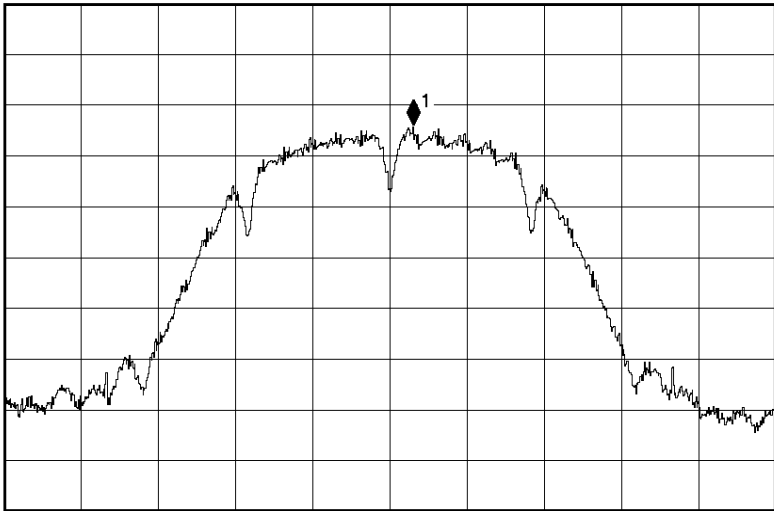
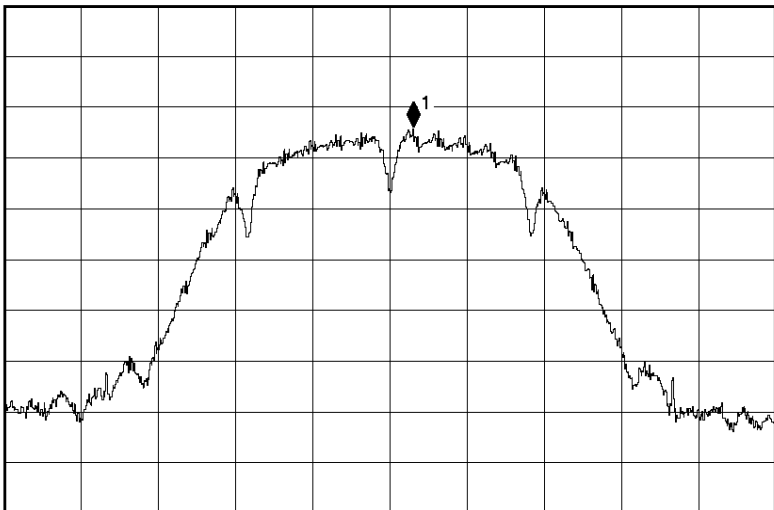
Appendix F): Maximum Power Spectral Density

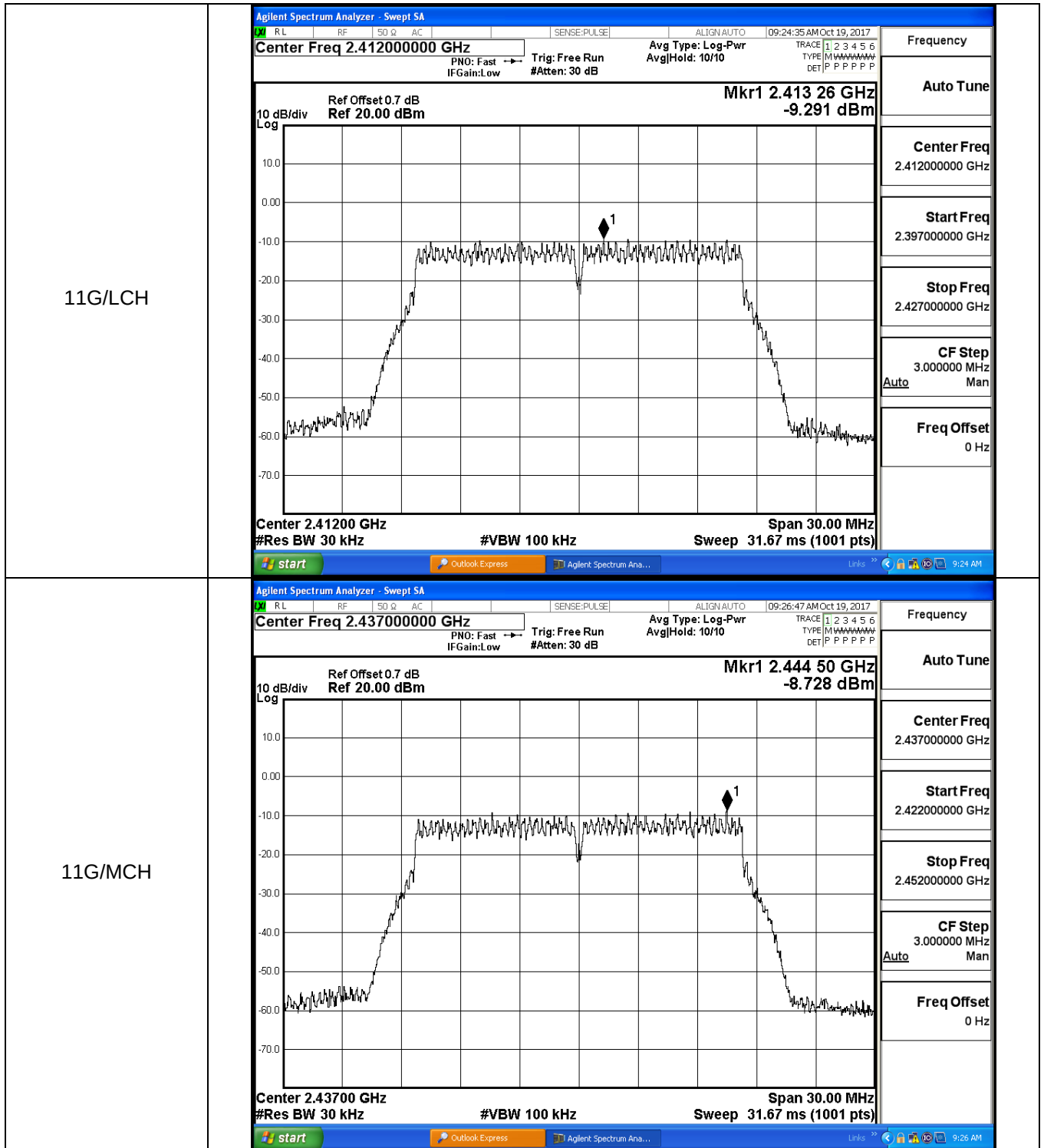
Result Table

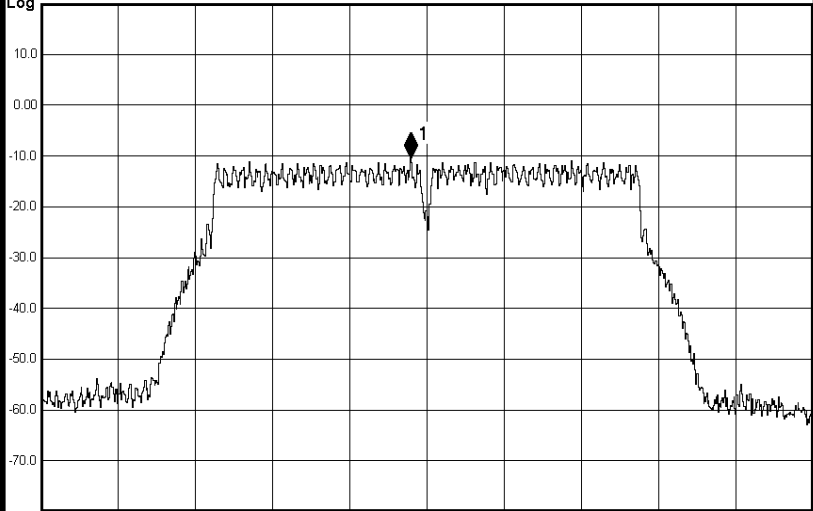
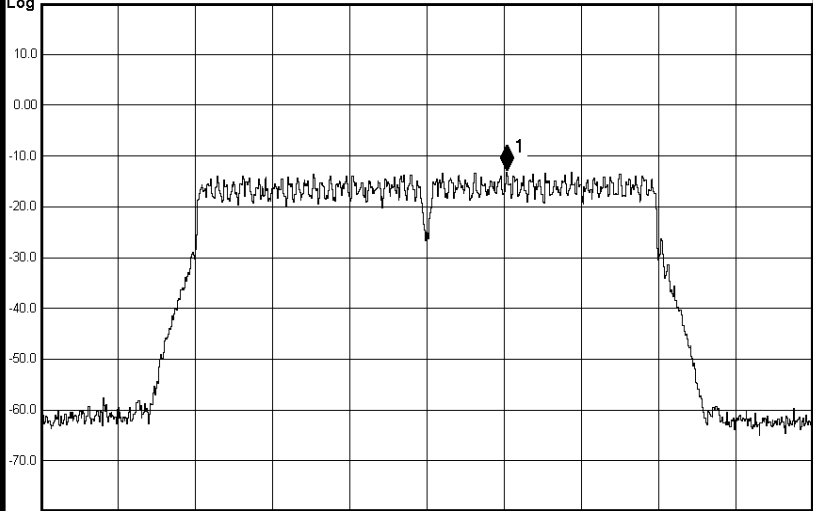
Mode	Channel	Meas.Level [dBm]	Verdict
11B	LCH	-4.460	PASS
11B	MCH	-4.239	PASS
11B	HCH	-4.253	PASS
11G	LCH	-9.291	PASS
11G	MCH	-8.728	PASS
11G	HCH	-10.556	PASS
11N20SISO	LCH	-13.156	PASS
11N20SISO	MCH	-12.253	PASS
11N20SISO	HCH	-12.210	PASS

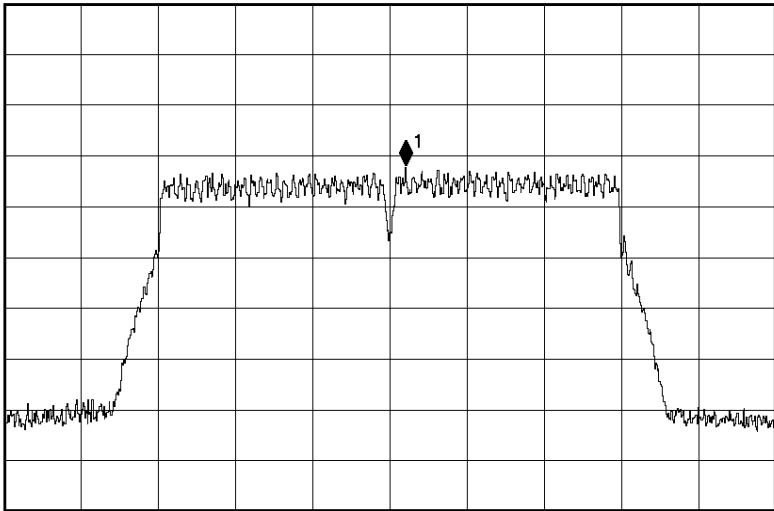
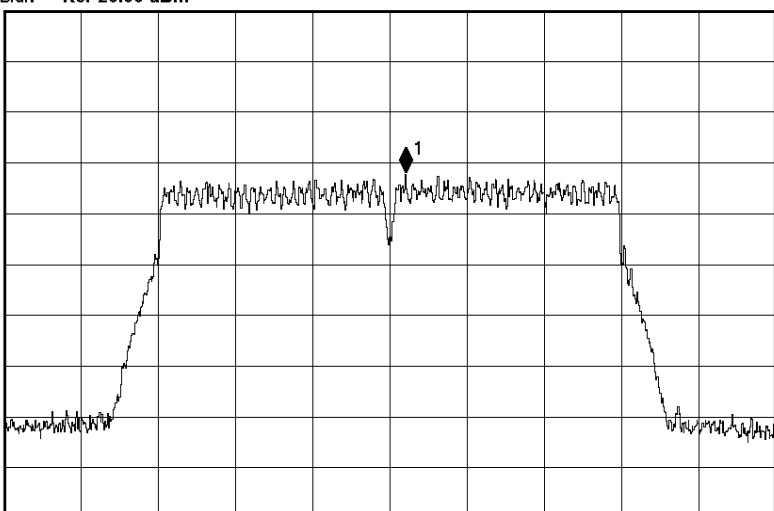
Test Graph



11B/MCH	Agilent Spectrum Analyzer - Swept SA RLRF50 QACSENSE:PULSEALIGN: AUTO09:18:20 AM Oct 19, 2017 Center Freq 2.437000000 GHz PNO: FastIFGain: Low Trig: Free Run#Atten: 30 dB Avg Type: Log-PwrAveHld: 10/10 TRACE 1 2 3 4 5 6TYPE M W A W A W A W A WDET P P P P P P P Ref Offset 0.7 dB Ref 20.00 dBm Mkr1 2.437 90 GHz-4.239 dBm 10 dB/div Log  Center 2.43700 GHz #Res BW 30 kHz #VBW 100 kHz Span 30.00 MHz Sweep 31.67 ms (1001 pts) start Outlook Express Agilent Spectrum Ana... Links 79 9:18 AM Frequency Auto Tune Center Freq2.437000000 GHz Start Freq2.422000000 GHz Stop Freq2.452000000 GHz CF Step3.000000 MHzAutoMan Freq Offset0 Hz
11B/HCH	Agilent Spectrum Analyzer - Swept SA RLRF50 QACSENSE:PULSEALIGN: AUTO09:19:56 AM Oct 19, 2017 Center Freq 2.462000000 GHz PNO: FastIFGain: Low Trig: Free Run#Atten: 30 dB Avg Type: Log-PwrAveHld: 10/10 TRACE 1 2 3 4 5 6TYPE M W A W A W A W A WDET P P P P P P P Ref Offset 0.7 dB Ref 20.00 dBm Mkr1 2.462 90 GHz-4.253 dBm 10 dB/div Log  Center 2.46200 GHz #Res BW 30 kHz #VBW 100 kHz Span 30.00 MHz Sweep 31.67 ms (1001 pts) start Outlook Express Agilent Spectrum Ana... Links 39 9:19 AM Frequency Auto Tune Center Freq2.462000000 GHz Start Freq2.447000000 GHz Stop Freq2.477000000 GHz CF Step3.000000 MHzAutoMan Freq Offset0 Hz



11G/HCH	Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 09:28:52 AM Oct 19, 2017 Center Freq 2.462000000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr AvgHold: 10/10 TRACE 1 2 3 4 5 6 TYPE M W W W W W W W W DET P P P P P P P Ref Offset 0.7 dB Ref 20.00 dBm Mkr1 2.461 37 GHz -10.556 dBm 10 dB/div Log  Center 2.46200 GHz #Res BW 30 kHz #VBW 100 kHz Span 30.00 MHz Sweep 31.67 ms (1001 pts) start Outlook Express Agilent Spectrum Ana... Links 9:28 AM Frequency Auto Tune Center Freq2.462000000 GHz Start Freq2.447000000 GHz Stop Freq2.477000000 GHz CF Step3.000000 MHz AutoMan Freq Offset0 Hz
11N20SISO/LCH	Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 09:31:07 AM Oct 19, 2017 Center Freq 2.412000000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr AvgHold: 10/10 TRACE 1 2 3 4 5 6 TYPE M W W W W W W W W DET P P P P P P P Ref Offset 0.7 dB Ref 20.00 dBm Mkr1 2.415 12 GHz -13.156 dBm 10 dB/div Log  Center 2.41200 GHz #Res BW 30 kHz #VBW 100 kHz Span 30.00 MHz Sweep 31.67 ms (1001 pts) start Outlook Express Agilent Spectrum Ana... Links 9:31 AM Frequency Auto Tune Center Freq2.412000000 GHz Start Freq2.397000000 GHz Stop Freq2.427000000 GHz CF Step3.000000 MHz AutoMan Freq Offset0 Hz

11N20SISO/MCH	Agilent Spectrum Analyzer - Swept SA RLRF50 QACSENSE:PULSEALIGN: AUTO09:33:29 AM Oct 19, 2017 Center Freq 2.437000000 GHz PNO: FastIFGain: Low Trig: Free Run#Atten: 30 dB Avg Type: Log-PwrAvg Hold: 10/10 TRACE 1 2 3 4 5 6TYPE M W A W A W A W A WDET P P P P P P Ref Offset 0.7 dBRef 20.00 dBm Mkr1 2.437 63 GHz-12.253 dBm 10 dB/divLog  Center 2.43700 GHz#Res BW 30 kHz #VBW 100 kHz Span 30.00 MHzSweep 31.67 ms (1001 pts) start Outlook Express Agilent Spectrum Ana... Links 79 9:33 AM Frequency Auto Tune Center Freq2.437000000 GHz Start Freq2.422000000 GHz Stop Freq2.452000000 GHz CF Step3.000000 MHzAutoMan Freq Offset0 Hz
11N20SISO/HCH	Agilent Spectrum Analyzer - Swept SA RLRF50 QACSENSE:PULSEALIGN: AUTO09:35:17 AM Oct 19, 2017 Center Freq 2.462000000 GHz PNO: FastIFGain: Low Trig: Free Run#Atten: 30 dB Avg Type: Log-PwrAvg Hold: 10/10 TRACE 1 2 3 4 5 6TYPE M W A W A W A WDET P P P P P P Ref Offset 0.7 dBRef 20.00 dBm Mkr1 2.462 63 GHz-12.210 dBm 10 dB/divLog  Center 2.46200 GHz#Res BW 30 kHz #VBW 100 kHz Span 30.00 MHzSweep 31.67 ms (1001 pts) start Outlook Express Agilent Spectrum Ana... Links 39 9:35 AM Frequency Auto Tune Center Freq2.462000000 GHz Start Freq2.447000000 GHz Stop Freq2.477000000 GHz CF Step3.000000 MHzAutoMan Freq Offset0 Hz