Appendix D

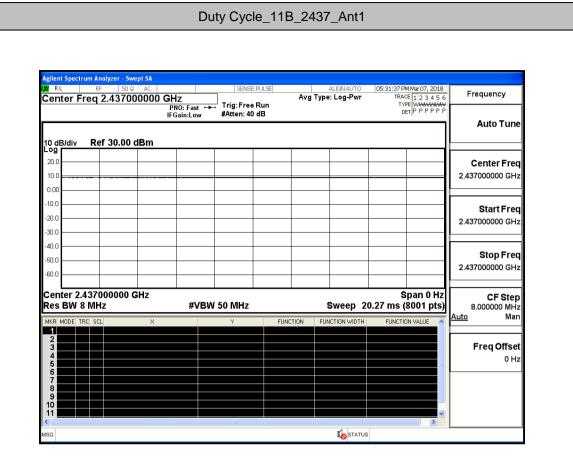
RF Test Data for 2.4G WIFI (Conducted Measurement)

Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	51.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.xu
Supervised by:	Tom.Liu

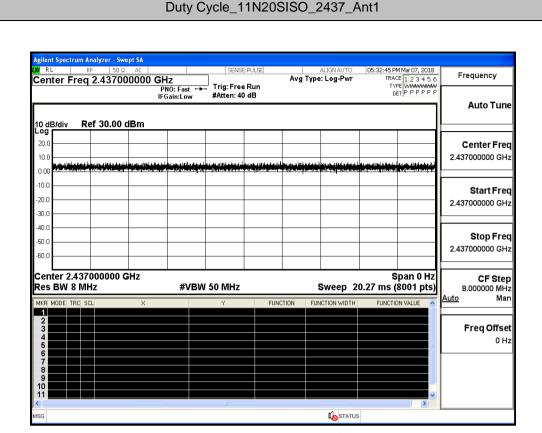
1 Duty Cycle

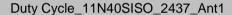
Test Mode Test Channel		Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS

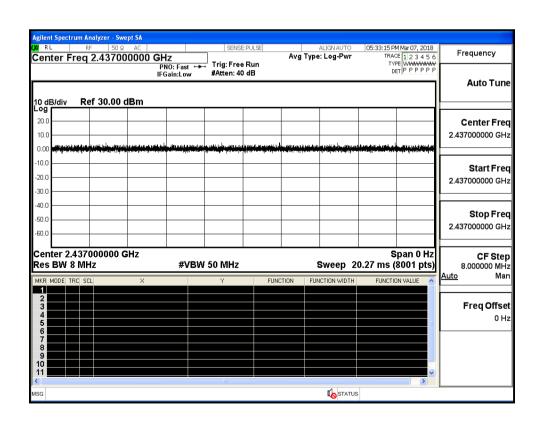










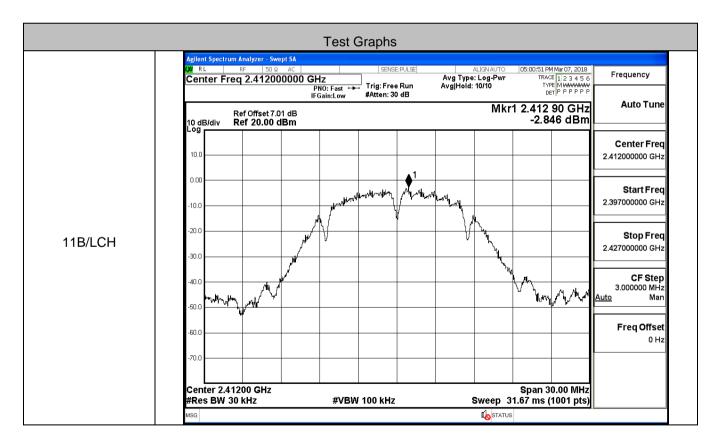


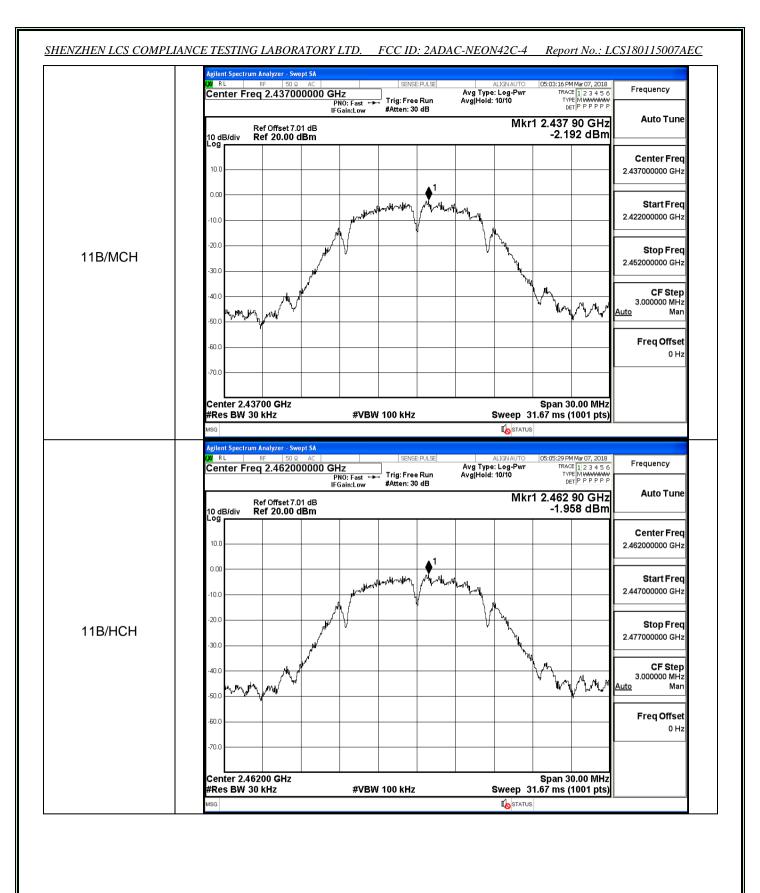
2 Maximum Conducted Output Power

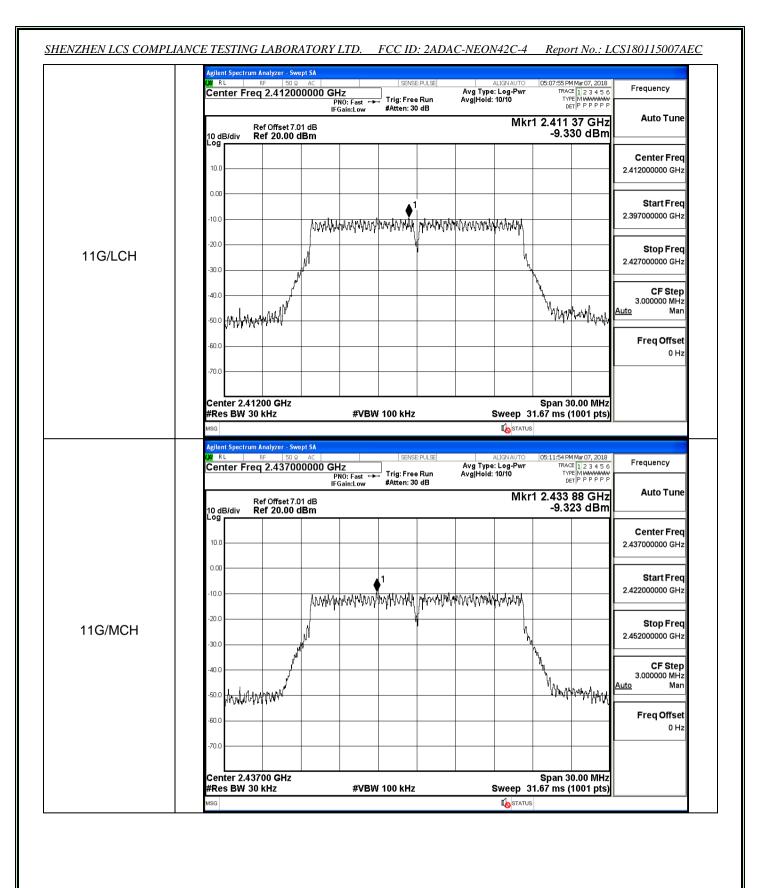
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
	LCH	15.11	30	PASS
11B	MCH	15.77	30	PASS
	HCH	16.17	30	PASS
	LCH	15.39	30	PASS
11G	MCH	15.40	30	PASS
	HCH	16.09	30	PASS
	LCH	15.07	30	PASS
11N20SISO	MCH	15.99	30	PASS
	HCH	15.73	30	PASS
	LCH	15.69	30	PASS
11N40SISO	MCH	15.69	30	PASS
	HCH	16.11	30	PASS

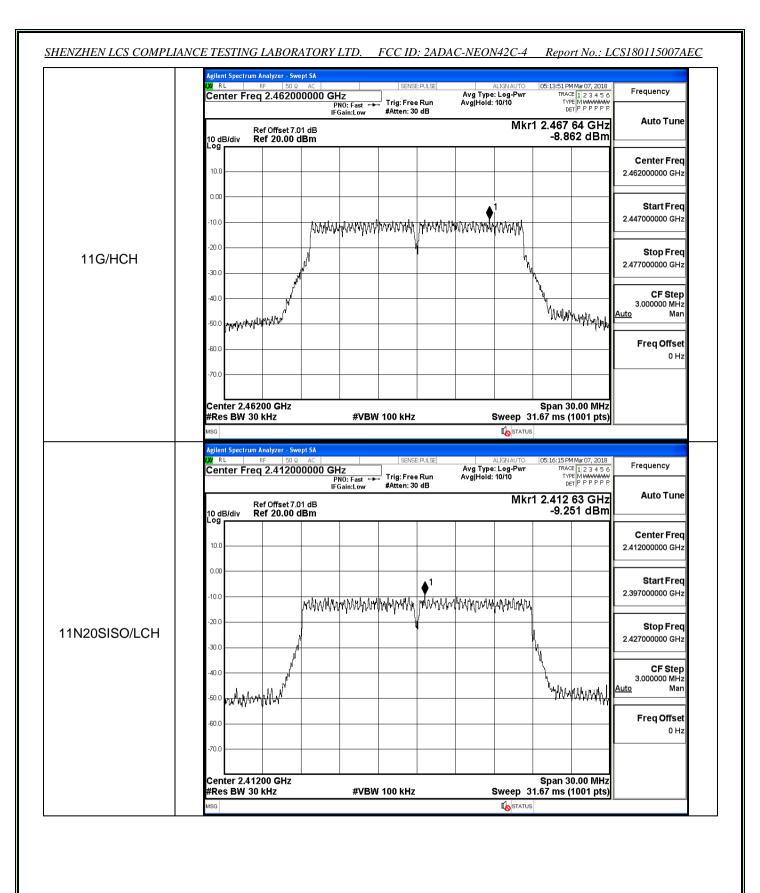
3 Maximum Power Spectral Density

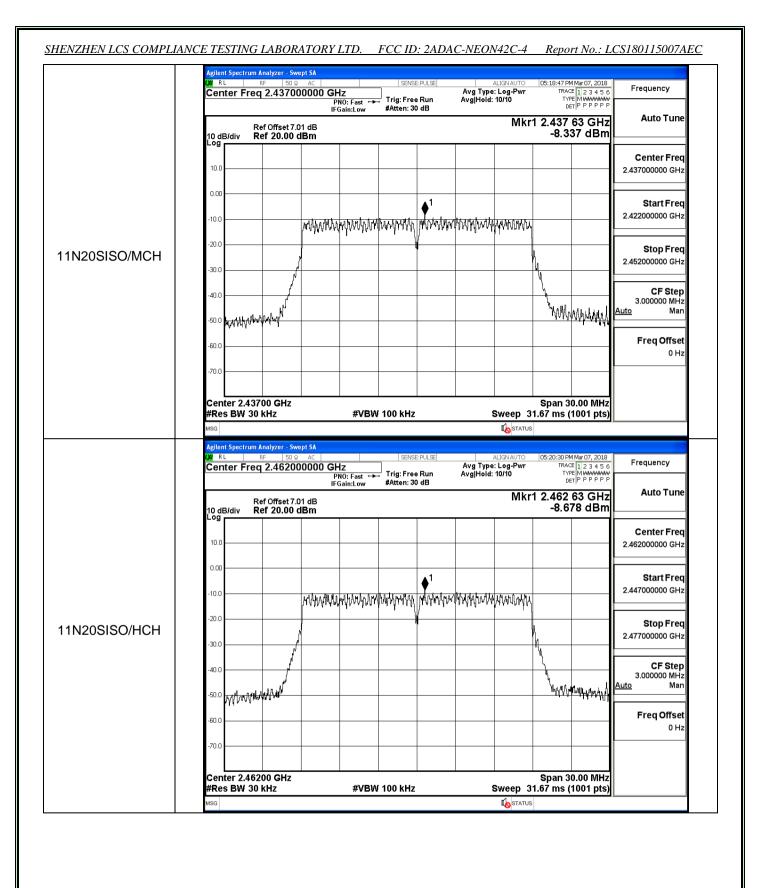
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
	LCH	-2.846	8	PASS
11B	MCH	-2.192	8	PASS
	HCH	-1.958	8	PASS
	LCH	-9.330	8	PASS
11G	MCH	-9.323	8	PASS
	HCH	-8.862	8	PASS
	LCH	-9.251	8	PASS
11N20SISO	MCH	-8.337	8	PASS
	HCH	-8.678	8	PASS
	LCH	-12.018	8	PASS
11N40SISO	MCH	-11.933	8	PASS
	HCH	-11.818	8	PASS

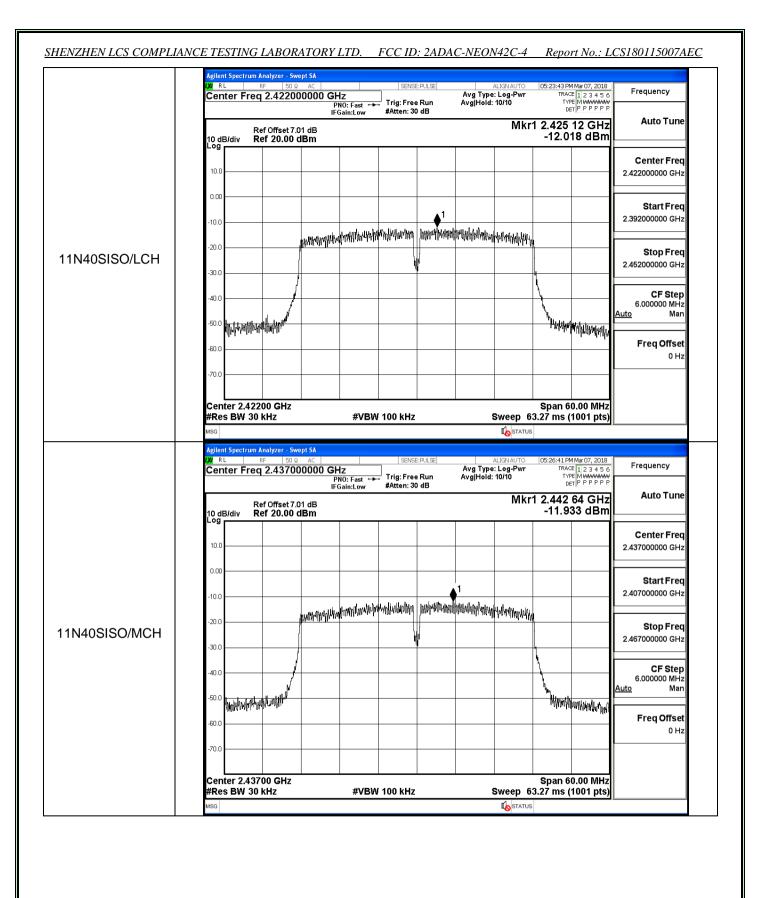




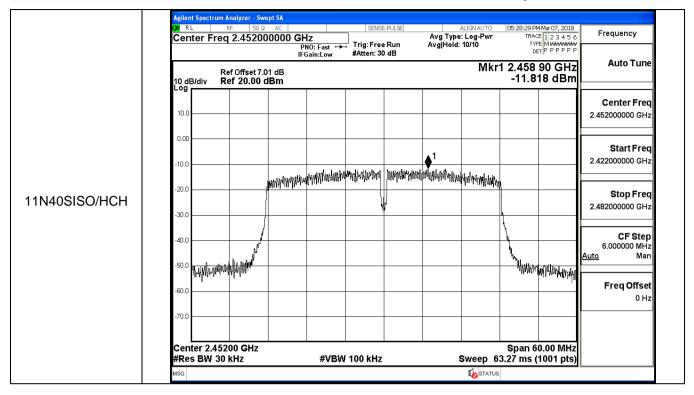






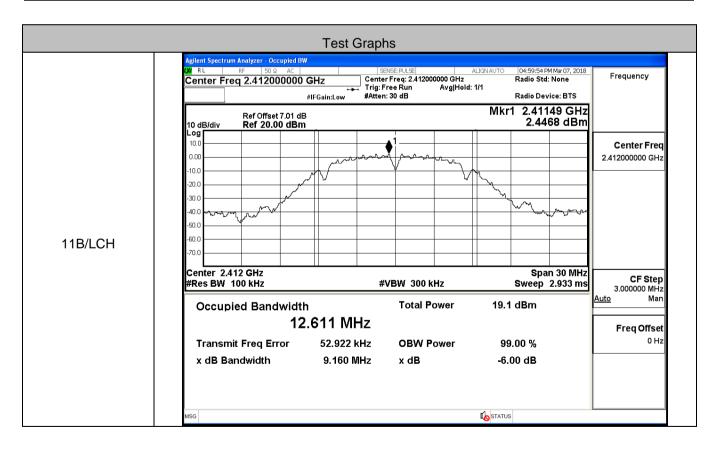


SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADAC-NEON42C-4 Report No.: LCS180115007AEC



4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	9.160	≥0.5	PASS
11B	MCH	9.160	≥0.5	PASS
	HCH	9.159	≥0.5	PASS
	LCH	16.60	≥0.5	PASS
11G	MCH	16.62	≥0.5	PASS
	HCH	16.62	≥0.5	PASS
	LCH	17.82	≥0.5	PASS
11N20SISO	MCH	17.83	≥0.5	PASS
	HCH	17.85	≥0.5	PASS
	LCH	36.21	≥0.5	PASS
11N40SISO	MCH	36.14	≥0.5	PASS
	HCH	36.34	≥0.5	PASS



SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADAC-NEON42C-4 Report No.: LCS180115007AEC |05:02:32 PM Mar 07, 2018 Radio Std: None Frequency Center Freq: 2.437000000 GHz Trig: Free Run Avg|Hold: 1/1 Center Freq 2.437000000 GHz Trig: Free Run #Atten: 30 dB #IFGain:Low Radio Device: BTS Mkr1 2.43649 GHz 3.0763 dBm Ref Offset 7.01 dB Ref 20.00 dBm 10.0 Center Freq n no 2.437000000 GHz 10 O 11B/MCH Center 2.437 GHz #Res BW 100 kHz Span 30 MHz **CF Step** #VBW 300 kHz Sweep 2.933 ms 3.000000 MHz Man **Total Power** 19.7 dBm Occupied Bandwidth 12.636 MHz Freq Offset 70.635 kHz **Transmit Freq Error OBW Power** 99.00 % 9.160 MHz -6.00 dB x dB Bandwidth x dB STATUS gilent Spectrum Analyzer - Occupied BW | 05:04:44 PM Mar 07, 2018 Radio Std: None Center Freq: 2.462000000 GHz Trig: Free Run Avg|Hold: 1/1 #Atten: 30 dB Frequency Center Freq 2.462000000 GHz #IFGain:Low Radio Device: BTS 2.46149 GHz 3.4893 dBm Mkr1 Ref Offset 7.01 dB Ref 20.00 dBm 10 dB/div Center Freq n no 2.462000000 GHz 10.0 11B/HCH Center 2.462 GHz #Res BW 100 kHz Span 30 MHz **CF Step** 3.000000 MHz **#VBW** 300 kHz Sweep 2.933 ms Man **Total Power** 20.1 dBm Occupied Bandwidth 12.619 MHz Freq Offset 51.434 kHz **OBW Power** 99.00 % **Transmit Freq Error** 9.159 MHz -6.00 dB x dB Bandwidth x dB STATUS

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADAC-NEON42C-4 Report No.: LCS180115007AEC 05:07:10 PM Mar 07, 2018 Radio Std: None Frequency Center Freq: 2.412000000 GHz Trig: Free Run Avg|Hold: 1/1 Center Freq 2.412000000 GHz Trig: Free Run #Atten: 30 dB #IFGain:Low Radio Device: BTS Mkr1 2.40951 GHz -6.5127 dBm Ref Offset 7.01 dB Ref 20.00 dBm 10.0 Center Freq n no 2.412000000 GHz 10 O WWW. www.hww ~~~ 11G/LCH Center 2.412 GHz #Res BW 100 kHz Span 30 MHz **CF Step** #VBW 300 kHz Sweep 2.933 ms 3.000000 MHz Man **Total Power** Occupied Bandwidth 14.1 dBm 16.498 MHz Freq Offset -3.381 kHz **Transmit Freq Error OBW Power** 99.00 % 16.60 MHz -6.00 dB x dB Bandwidth x dB STATUS gilent Spectrum Analyzer - Occupied BW 05:11:10 PM Mar 07, 2018 Radio Std: None Center Freq: 2.437000000 GHz Trig: Free Run Avg|Hold: 1/1 #Atten: 30 dB Frequency Center Freq 2.437000000 GHz #IFGain:Low Radio Device: BTS 2.44117 GHz -6.5420 dBm Mkr1 Ref Offset 7.01 dB Ref 20.00 dBm 10 dB/div Center Freq n no 2.437000000 GHz 10.0 Juny Mary Whowandalow 11G/MCH Center 2.437 GHz #Res BW 100 kHz Span 30 MHz **CF Step #VBW** 300 kHz Sweep 2.933 ms 3.000000 MHz **Total Power** 14.1 dBm Occupied Bandwidth 16.537 MHz Freq Offset -1.752 kHz **OBW Power** 99.00 % **Transmit Freq Error** 16.62 MHz -6.00 dB x dB Bandwidth x dB STATUS

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADAC-NEON42C-4 Report No.: LCS180115007AEC 05:13:07 PM Mar 07, 2018 Radio Std: None Frequency Center Freq: 2.462000000 GHz Trig: Free Run Avg|Hold: 1/1 Center Freq 2.462000000 GHz Trig: Free Run #Atten: 30 dB #IFGain:Low Radio Device: BTS Mkr1 2.4629 GHz -5.8998 dBm Ref Offset 7.01 dB Ref 20.00 dBm 10.0 Center Freq n no 2.462000000 GHz 10 O proving of the 11G/HCH Center 2.462 GHz #Res BW 100 kHz Span 30 MHz **CF Step** #VBW 300 kHz Sweep 2.933 ms 3.000000 MHz Man **Total Power** 14.8 dBm Occupied Bandwidth 16.537 MHz Freq Offset -9.032 kHz **Transmit Freq Error OBW Power** 99.00 % 16.62 MHz -6.00 dB x dB Bandwidth x dB STATUS gilent Spectrum Analyzer - Occupied BW | 05:15:29 PM Mar 07, 2018 Radio Std: None Center Freq: 2.412000000 GHz Trig: Free Run Avg|Hold: 1/1 #Atten: 30 dB Frequency Center Freq 2.412000000 GHz #IFGain:Low Radio Device: BTS 2.40912 GHz -6.5728 dBm Mkr1 Ref Offset 7.01 dB Ref 20.00 dBm 10 dB/div Center Freq n no 2.412000000 GHz 10.0 mana Mary Mary Mary 11N20SISO/LCH Center 2.412 GHz #Res BW 100 kHz Span 30 MHz **CF Step #VBW** 300 kHz Sweep 2.933 ms 3.000000 MHz Man **Total Power** 13.6 dBm Occupied Bandwidth 17.681 MHz Freq Offset 15.416 kHz **OBW Power** 99.00 % **Transmit Freq Error** 17.82 MHz -6.00 dB x dB Bandwidth x dB STATUS

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADAC-NEON42C-4 Report No.: LCS180115007AEC 05:18:02 PM Mar 07, 2018 Radio Std: None Frequency Center Freq: 2.437000000 GHz Trig: Free Run Avg|Hold: 1/1 Center Freq 2.437000000 GHz Trig: Free Run #Atten: 30 dB #IFGain:Low Radio Device: BTS 2.43415 GHz -5.8842 dBm Mkr1 Ref Offset 7.01 dB Ref 20.00 dBm 10.0 Center Freq n no 2.437000000 GHz 10 O ᠰᡙᠵᢦᡧᡙ 11N20SISO/MCH Center 2.437 GHz #Res BW 100 kHz Span 30 MHz **CF Step** #VBW 300 kHz Sweep 2.933 ms 3.000000 MHz <u>Auto</u> Man **Total Power** 14.5 dBm Occupied Bandwidth 17.674 MHz Freq Offset 22.759 kHz **Transmit Freq Error OBW Power** 99.00 % 17.83 MHz -6.00 dB x dB Bandwidth x dB STATUS gilent Spectrum Analyzer - Occupied BW | 05:19:45 PM Mar 07, 2018 Radio Std: None Center Freq: 2.462000000 GHz Trig: Free Run Avg|Hold: 1/1 #Atten: 30 dB Frequency Center Freq 2.462000000 GHz #IFGain:Low Radio Device: BTS 2.45663 GHz -6.3777 dBm Mkr1 Ref Offset 7.01 dB Ref 20.00 dBm 10 dB/div Center Freq n no 2.462000000 GHz 10.0 WWW. WWW. MANNAMANAM 11N20SISO/HCH Center 2.462 GHz #Res BW 100 kHz Span 30 MHz **CF Step** #VBW 300 kHz Sweep 2.933 ms 3.000000 MHz Man **Total Power** 14.2 dBm Occupied Bandwidth 17.681 MHz Freq Offset 20.575 kHz **OBW Power** 99.00 % **Transmit Freq Error** 17.85 MHz -6.00 dB x dB Bandwidth x dB STATUS

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADAC-NEON42C-4 Report No.: LCS180115007AEC |05:22:57 PM Mar 07, 2018 Radio Std: None Frequency Center Freq: 2.422000000 GHz Trig: Free Run Avg|Hold: 1/1 Center Freq 2.422000000 GHz Trig: Free Run #Atten: 30 dB #IFGain:Low Radio Device: BTS 2.42548 GHz -8.7728 dBm Mkr1 Ref Offset 7.01 dB Ref 20.00 dBm 10.0 Center Freq n no 2.422000000 GHz 10 O huguether harmonder المراديك المجمعة بالمعادرة 11N40SISO/LCH Center 2.422 GHz #Res BW 100 kHz Span 60 MHz **CF Step** #VBW 300 kHz Sweep 5.8 ms 6.000000 MHz Man **Total Power** 14.3 dBm Occupied Bandwidth 35.858 MHz Freq Offset 44.500 kHz **Transmit Freq Error OBW Power** 99.00 % 36.21 MHz -6.00 dB x dB Bandwidth x dB STATUS gilent Spectrum Analyzer - Occupied BW JUS:25:56 PM Mar 07, 2018 Radio Std: None Center Freq: 2.437000000 GHz Trig: Free Run Avg|Hold: 1/1 #Atten: 30 dB Frequency Center Freq 2.437000000 GHz #IFGain:Low Radio Device: BTS 2.44048 GHz -8.7813 dBm Mkr1 Ref Offset 7.01 dB Ref 20.00 dBm 10 dB/div Center Freq n no 2.437000000 GHz 10.0 juhnyyun milinya 11N40SISO/MCH Center 2.437 GHz #Res BW 100 kHz Span 60 MHz **CF Step** #VBW 300 kHz Sweep 5.8 ms 6.000000 MHz Man **Total Power** 14.3 dBm Occupied Bandwidth 35.836 MHz Freq Offset 60.023 kHz **OBW Power** 99.00 % **Transmit Freq Error** 36.14 MHz -6.00 dB x dB Bandwidth x dB STATUS

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADAC-NEON42C-4 Report No.: LCS180115007AEC SENSE:PULSE ALIGNAUTO Center Freq: 2.452000000 GHz Trig: Free Run Avg|Hold: 1/1 #Atten: 30 dB 05:27:44 PM Mar 07, 2018 Radio Std: None Frequency Center Freq 2.452000000 GHz Radio Device: BTS #IFGain:Low Mkr1 2.45416 GHz -8.5669 dBm Ref Offset 7.01 dB Ref 20.00 dBm 10.0 Center Freq n no 2.452000000 GHz 10 O enformation in the state of the feet of the 11N40SISO/HCH Center 2.452 GHz #Res BW 100 kHz Span 60 MHz **CF Step** 6.000000 MHz #VBW 300 kHz Sweep 5.8 ms Man **Total Power** 14.7 dBm Occupied Bandwidth 35.832 MHz Freq Offset

46.505 kHz

36.34 MHz

Transmit Freq Error x dB Bandwidth

OBW Power

x dB

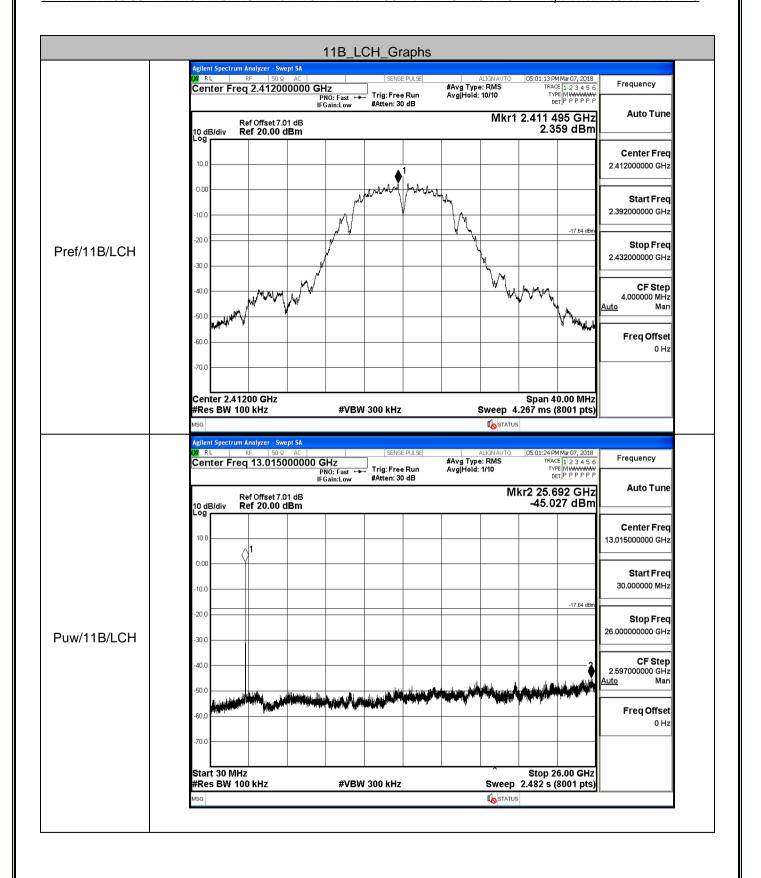
99.00 %

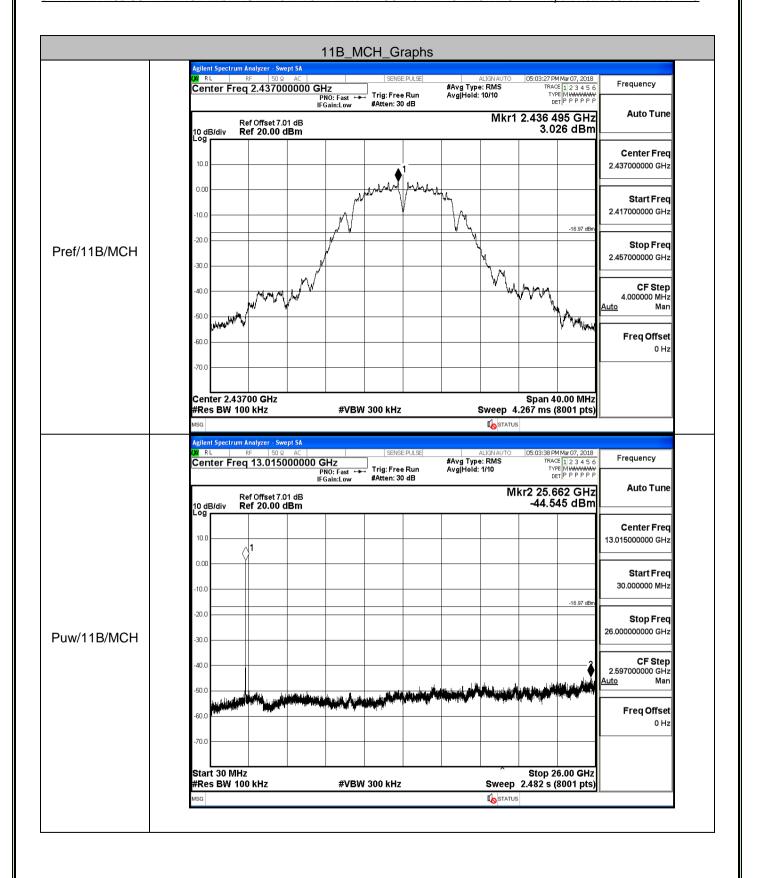
-6.00 dB

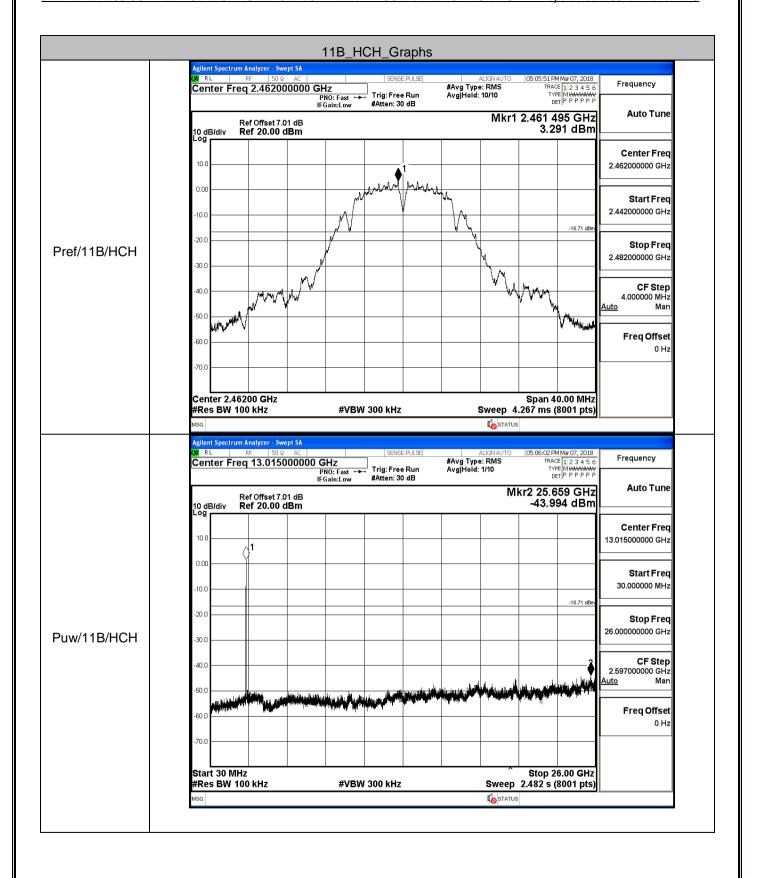
STATUS

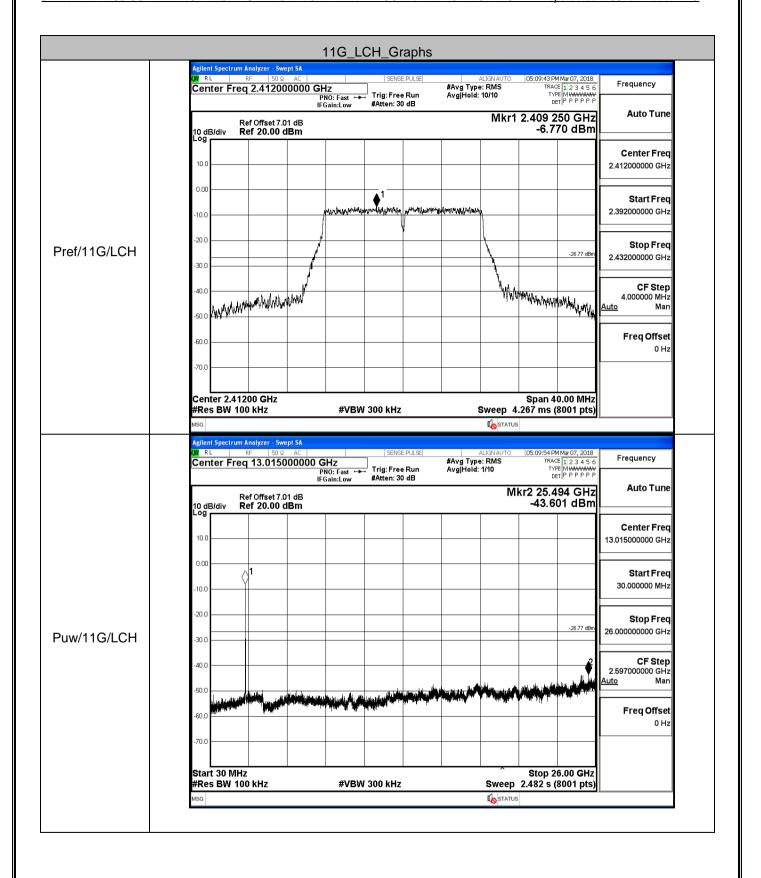
5 RF Conducted Spurious Emissions

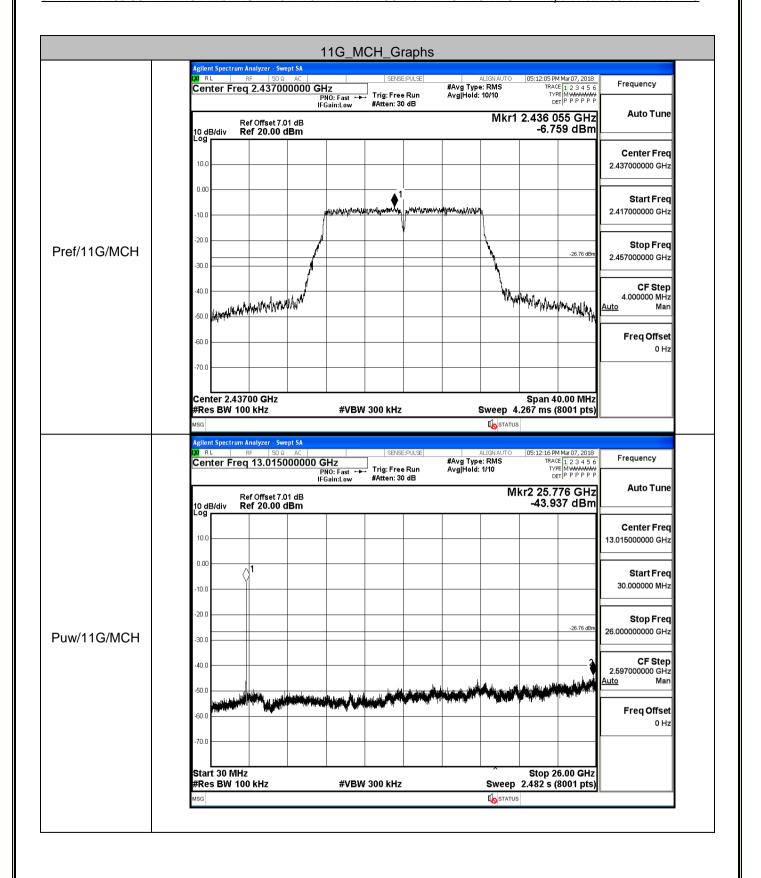
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdic t
	LCH	2.359	-45.027	-17.641	PASS
11B	MCH	3.026	-44.545	-16.974	PASS
	HCH	3.291	-43.994	-16.709	PASS
	LCH	-6.77	-43.601	-26.770	PASS
11G	MCH	-6.759	-43.937	-26.759	PASS
	НСН	-5.95	-44.346	-25.950	PASS
	LCH	-7.167	-45.381	-27.167	PASS
11N20	MCH	-5.881	-44.057	-25.881	PASS
SISO	НСН	-6.358	-44.791	-26.358	PASS
	LCH -9.0	-9.024	-44.932	-29.024	PASS
11N40	MCH	-8.797	-45.126	-28.797	PASS
SISO	НСН	-8.277	-44.019	-28.277	PASS

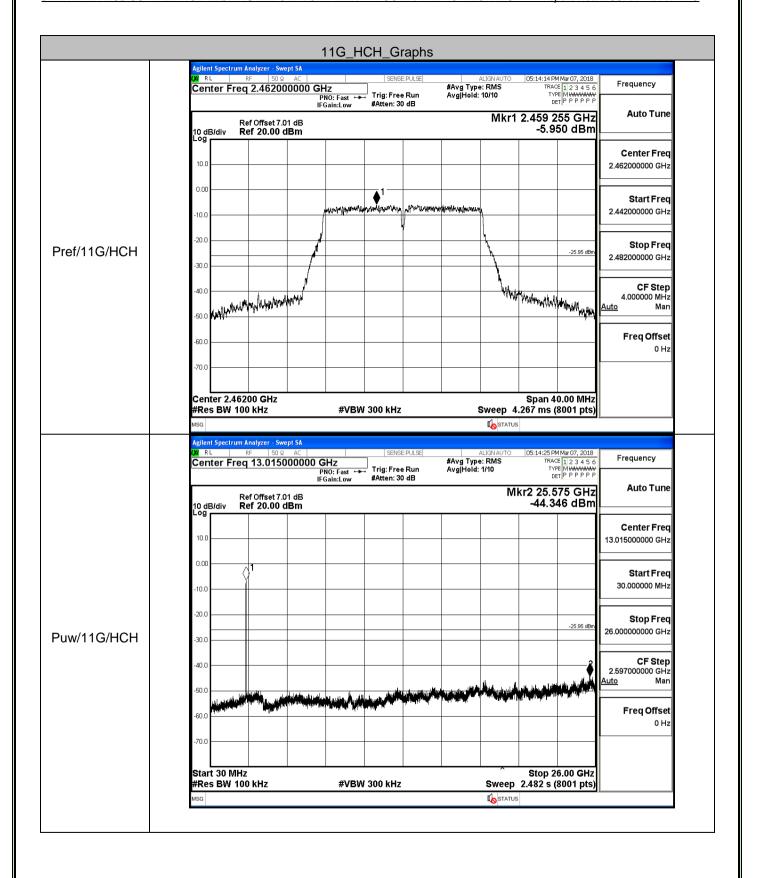


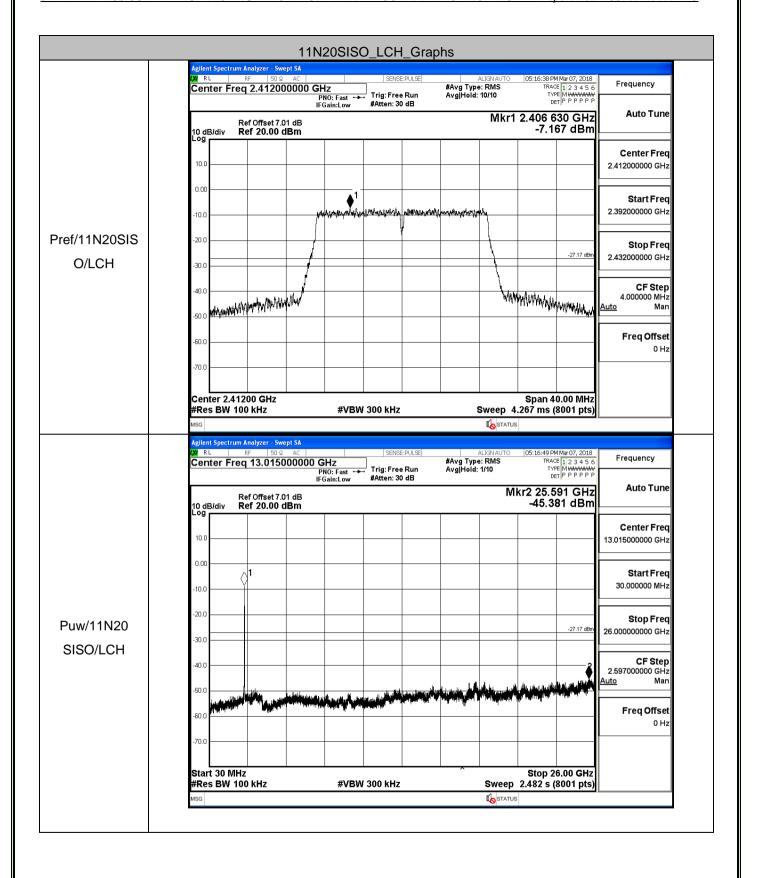


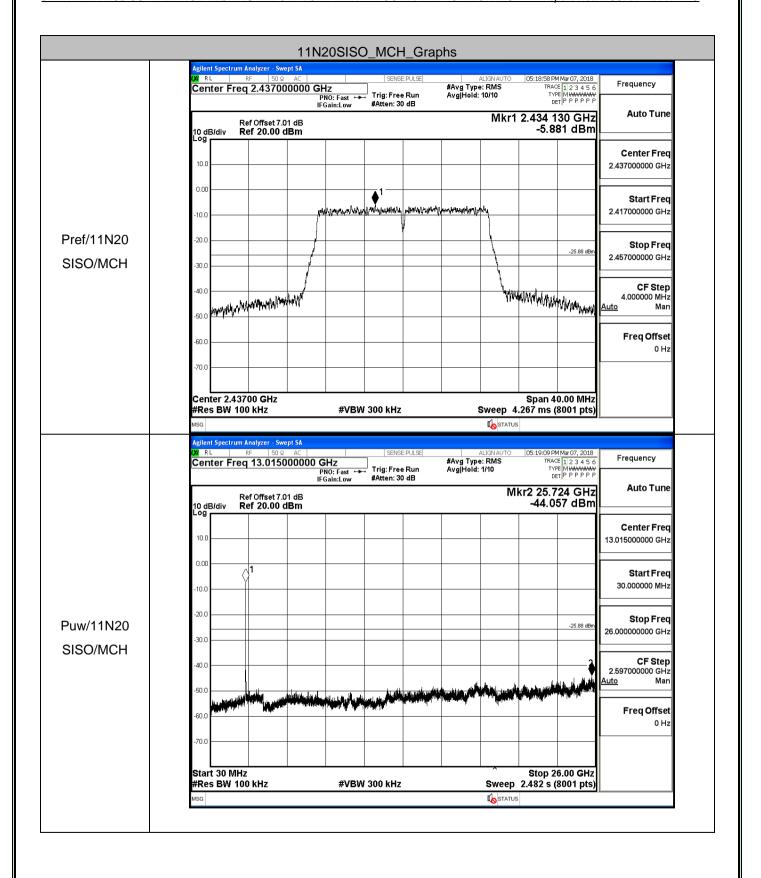


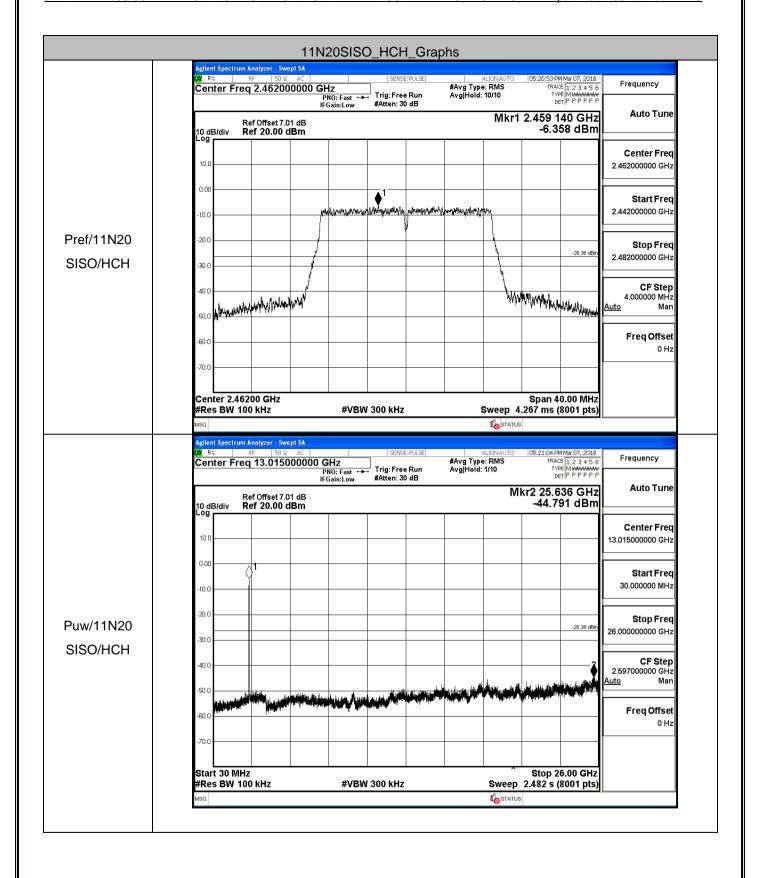


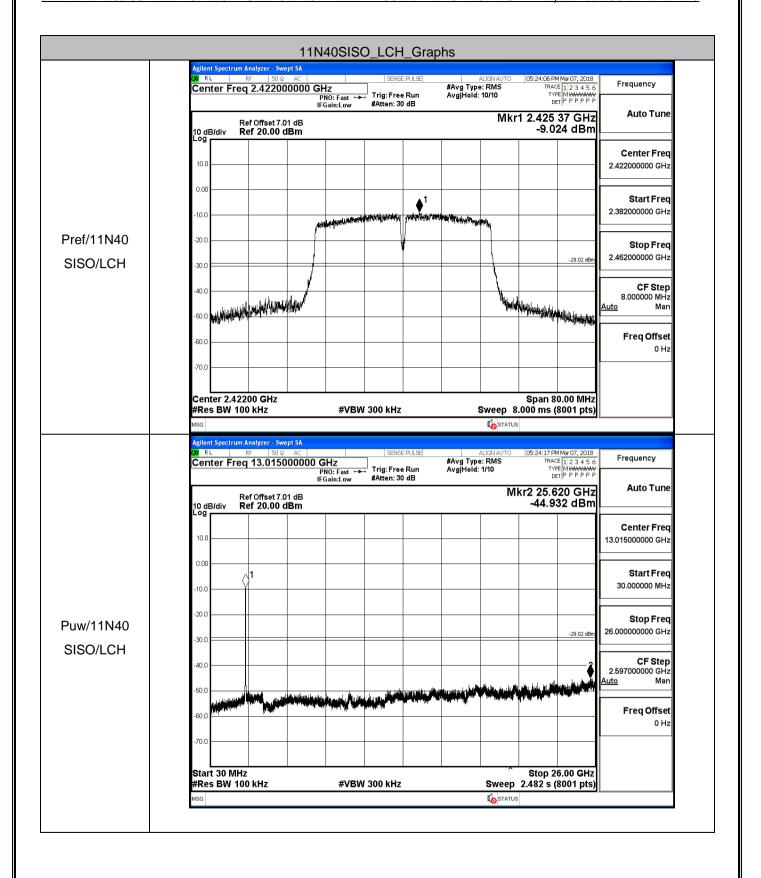


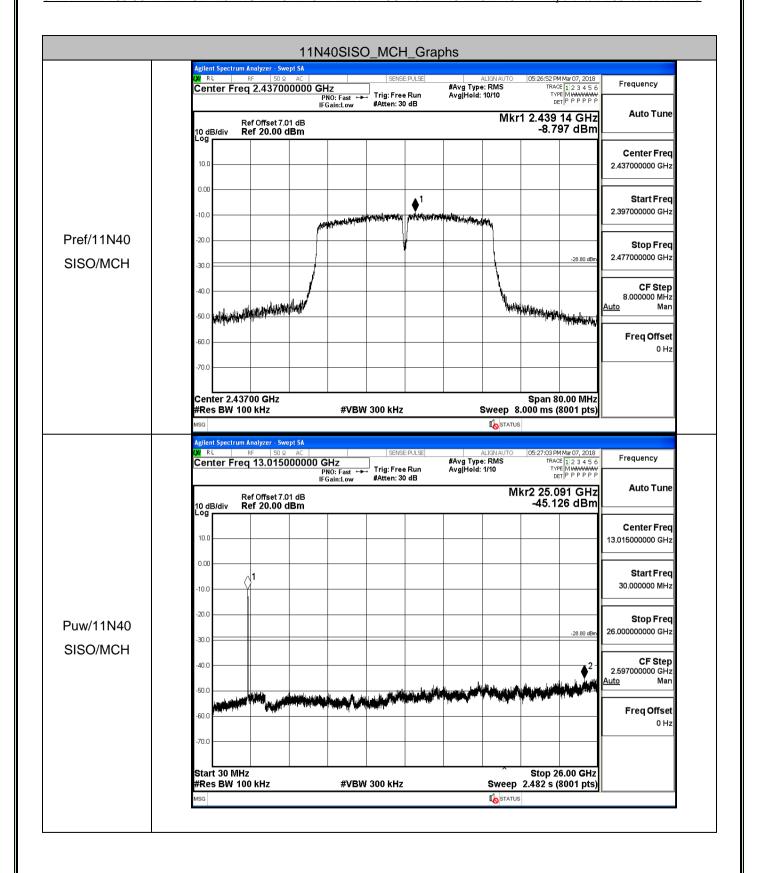


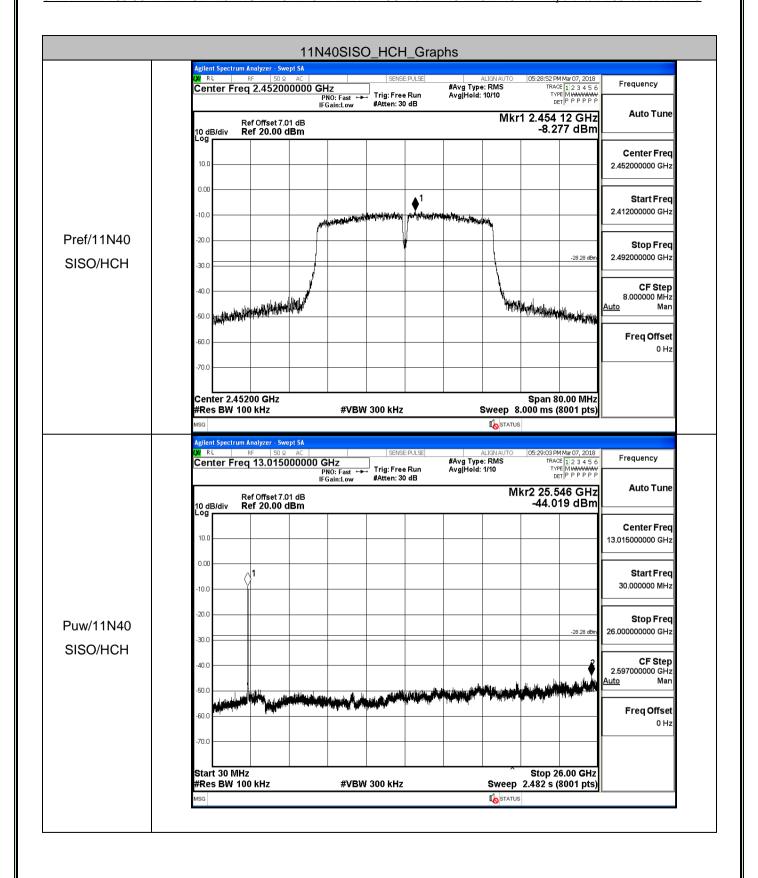






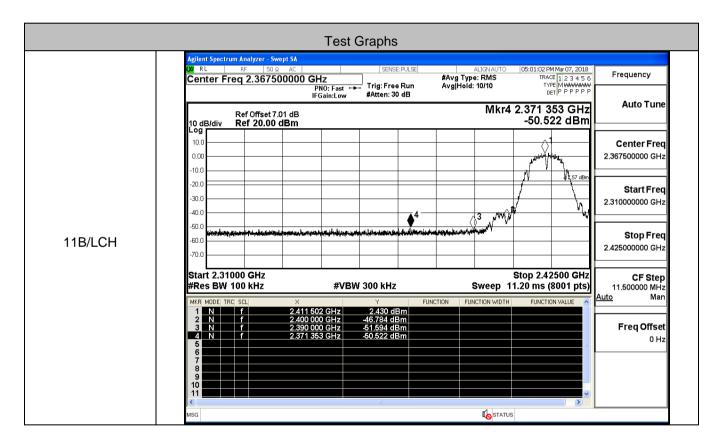


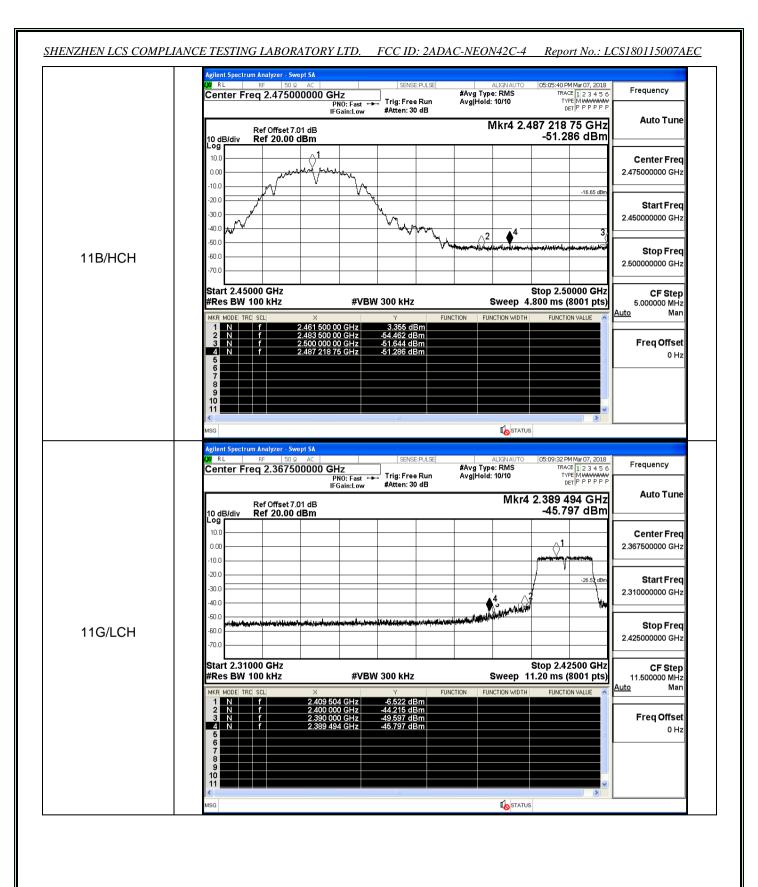


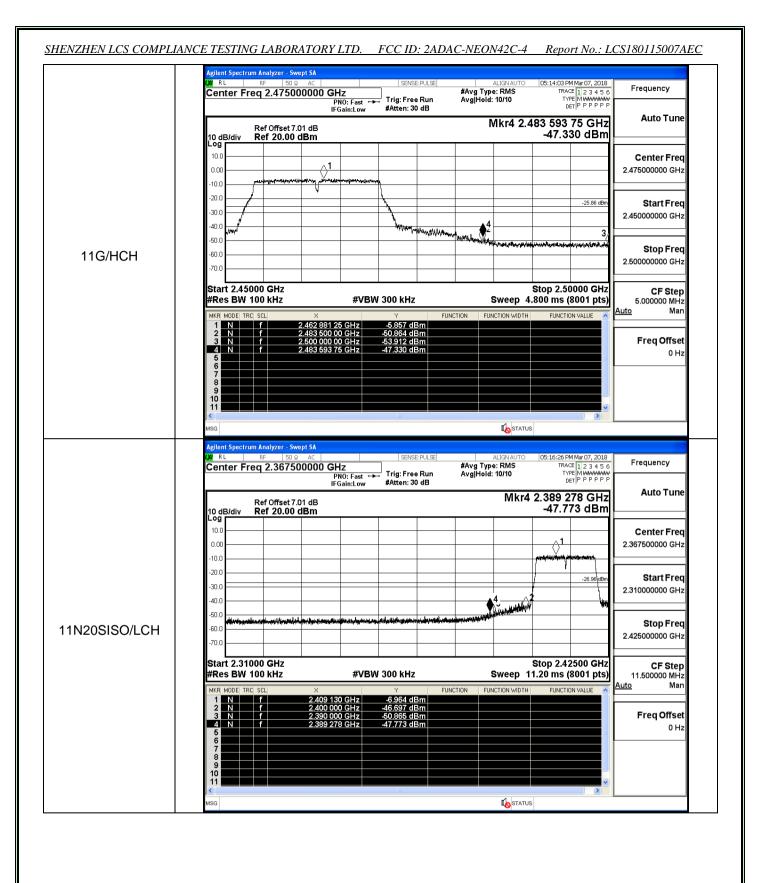


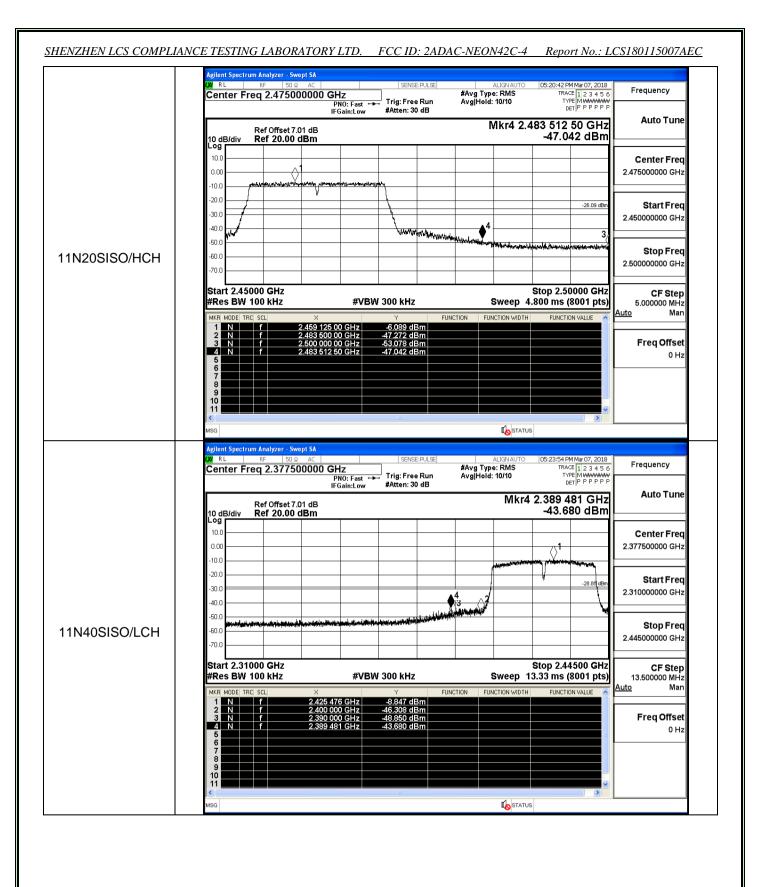
6 Band-edge for RF Conducted Emissions

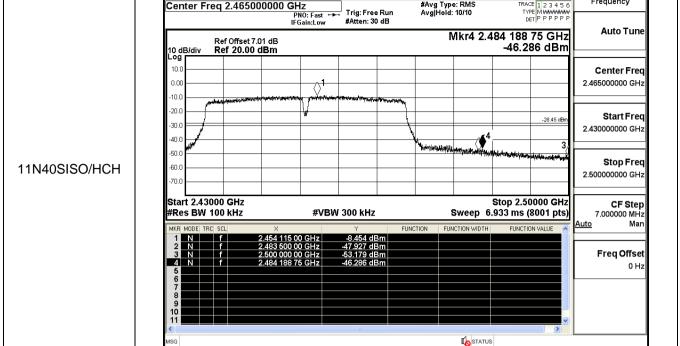
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
	LCH	2.430	-50.522	-17.57	PASS
11B	НСН	3.355	-51.286	-16.65	PASS
	LCH	-6.522	-45.797	-26.52	PASS
11G	НСН	-5.857	-47.330	-25.86	PASS
	LCH	-6.964	-47.773	-26.96	PASS
11N20SISO	НСН	-6.089	-47.042	-26.09	PASS
	LCH	-8.847	-43.680	-28.85	PASS
11N40SISO	HCH	-8.454	-46.286	-28.45	PASS







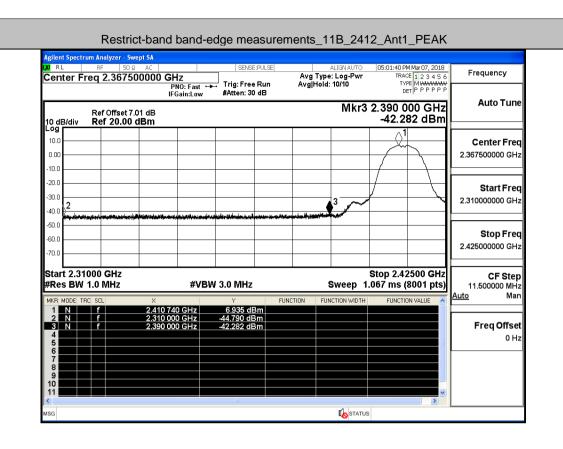


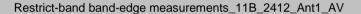


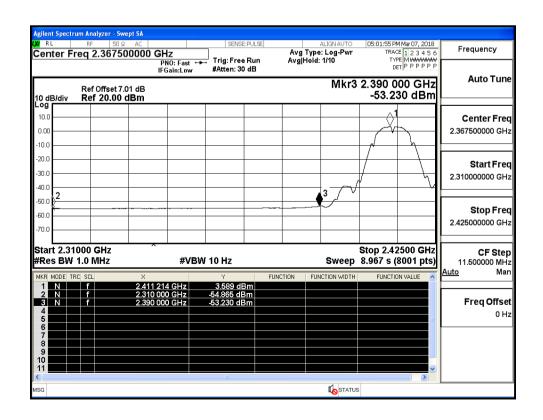
7 Restrict-band band-edge measurements

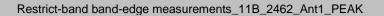
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
	2412	Ant1	2310.0	-44.79	2.0	0	52.44	PEAK	74	PASS
	2412	Ant1	2310.0	-54.87	2.0	0	42.36	AV	54	PASS
	2412	Ant1	2390.0	-42.28	2.0	0	54.95	PEAK	74	PASS
440	2412	Ant1	2390.0	-53.23	2.0	0	44.00	AV	54	PASS
11B	2462	Ant1	2483.5	-44.02	2.0	0	53.21	PEAK	74	PASS
	2462	Ant1	2483.5	-54.19	2.0	0	43.04	AV	54	PASS
	2462	Ant1	2500.0	-44.46	2.0	0	52.77	PEAK	74	PASS
	2462	Ant1	2500.0	-53.99	2.0	0	43.24	AV	54	PASS
	2412	Ant1	2310.0	-44.95	2.0	0	52.28	PEAK	74	PASS
	2412	Ant1	2310.0	-55.00	2.0	0	42.23	AV	54	PASS
	2412	Ant1	2390.0	-37.57	2.0	0	59.66	PEAK	74	PASS
440	2412	Ant1	2390.0	-51.81	2.0	0	45.42	AV	54	PASS
11G	2462	Ant1	2483.5	-39.65	2.0	0	57.58	PEAK	74	PASS
	2462	Ant1	2483.5	-51.08	2.0	0	46.15	AV	54	PASS
	2462	Ant1	2500.0	-42.77	2.0	0	54.46	PEAK	74	PASS
	2462	Ant1	2500.0	-53.46	2.0	0	43.77	AV	54	PASS
	2412	Ant1	2310.0	-44.83	2.0	0	52.40	PEAK	74	PASS
	2412	Ant1	2310.0	-54.99	2.0	0	42.24	AV	54	PASS
	2412	Ant1	2390.0	-37.18	2.0	0	60.05	PEAK	74	PASS
11N20	2412	Ant1	2390.0	-51.02	2.0	0	46.21	AV	54	PASS
SISO	2462	Ant1	2483.5	-35.70	2.0	0	61.53	PEAK	74	PASS
	2462	Ant1	2483.5	-50.75	2.0	0	46.48	AV	54	PASS
	2462	Ant1	2500.0	-42.73	2.0	0	54.50	PEAK	74	PASS
	2462	Ant1	2500.0	-53.46	2.0	0	43.77	AV	54	PASS
11N40	2422	Ant1	2310.0	-44.20	2.0	0	52.28	PEAK	74	PASS
SISO	2422	Ant1	2310.0	-55.06	2.0	0	42.23	AV	54	PASS

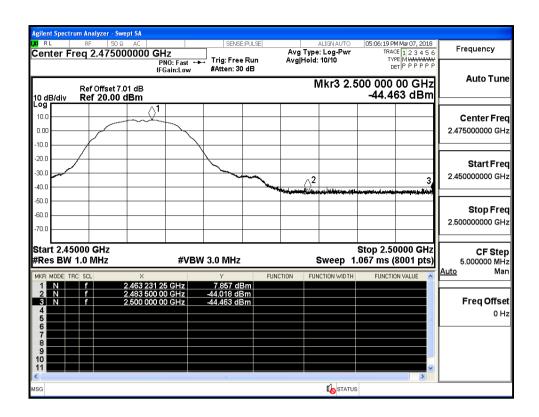
<u>S</u>	<u>HENZHEN I</u>	CS COMP	<u>LIANCE</u>	TESTING LA	ABORATORY L	TD. FC	<u>C ID: 2ADAC-NE</u>	ON42C-4 R	eport No.: L	<u>CS1801</u>	<u>15007AEC</u>
		2422	Ant1	2390.0	-37.79	2.0	0	59.66	PEAK	74	PASS
		2422	Ant1	2390.0	-48.45	2.0	0	45.42	AV	54	PASS
		2452	Ant1	2483.5	-38.72	2.0	0	57.58	PEAK	74	PASS
		2452	Ant1	2483.5	-48.88	2.0	0	46.15	AV	54	PASS
		2452	Ant1	2500.0	-42.41	2.0	0	54.46	PEAK	74	PASS
		2452	Ant1	2500.0	-53.21	2.0	0	43.77	AV	54	PASS



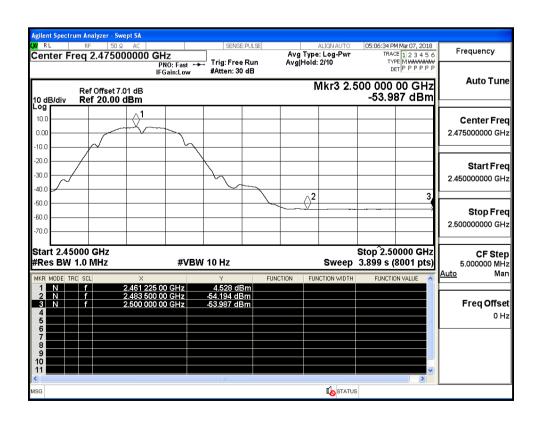


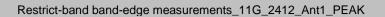


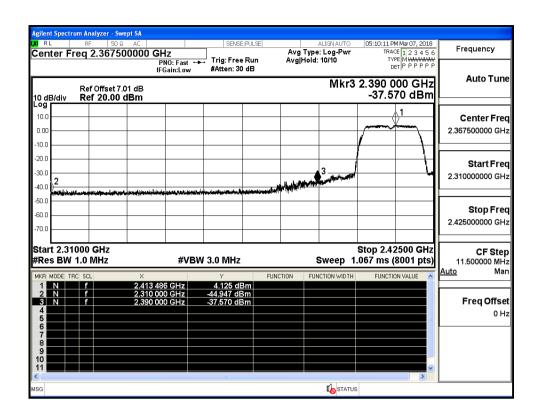




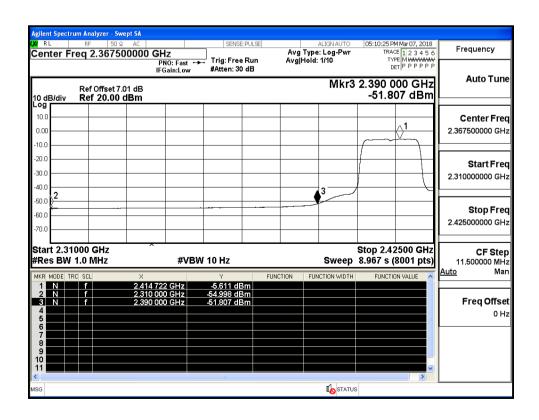
Restrict-band band-edge measurements_11B_2462_Ant1_AV



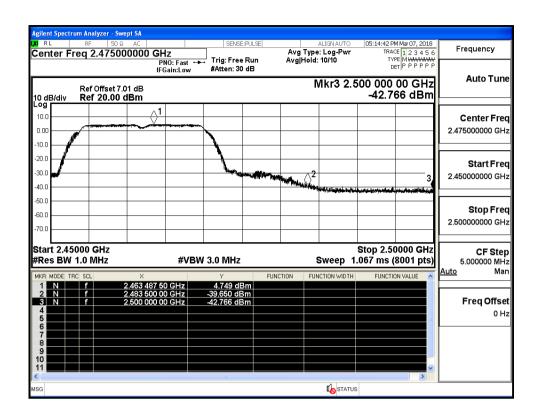




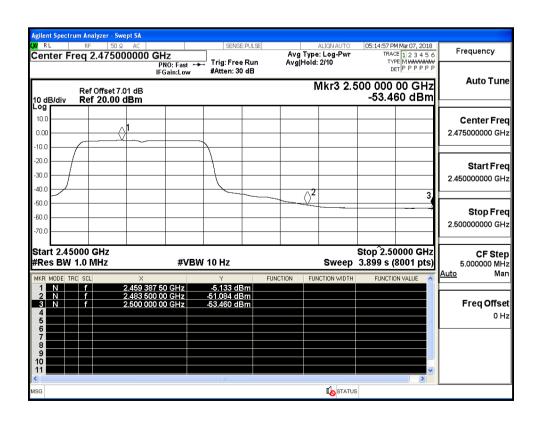
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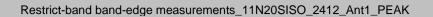


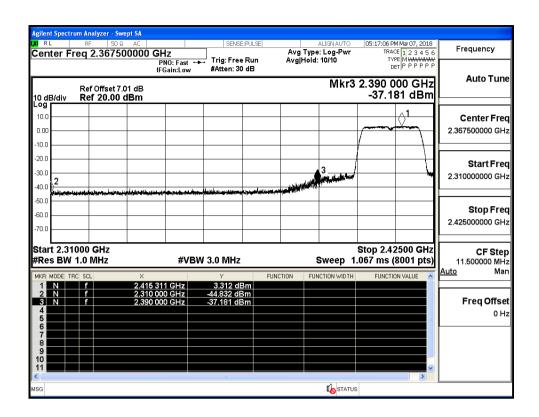
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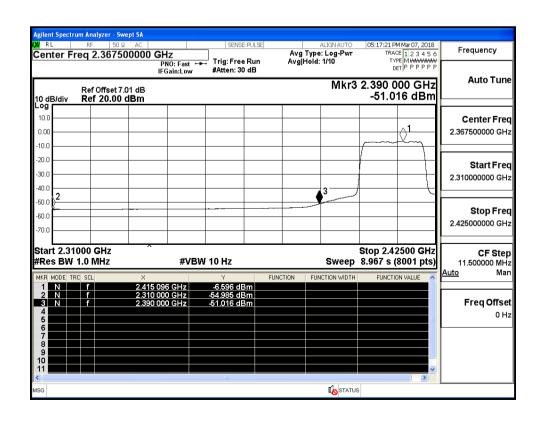
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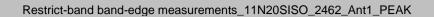


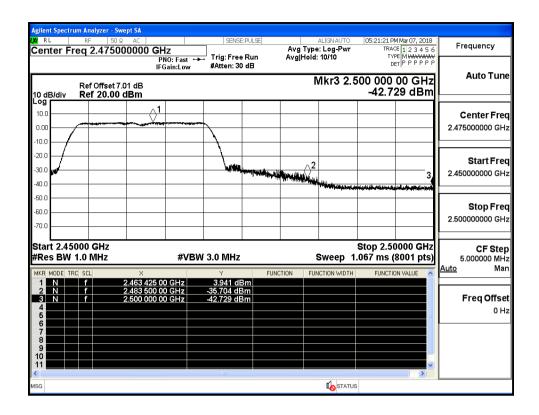




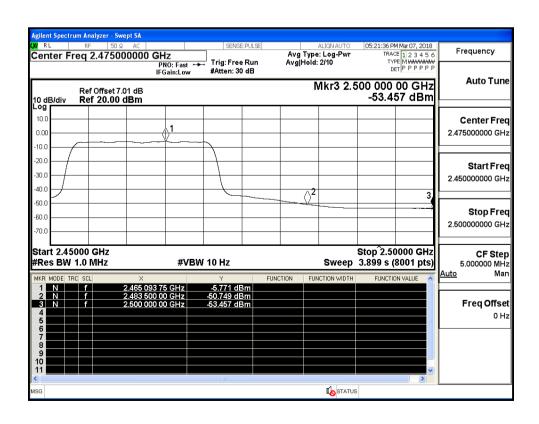
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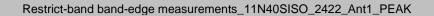


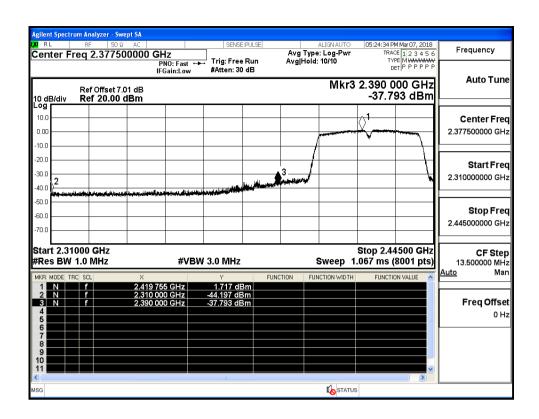




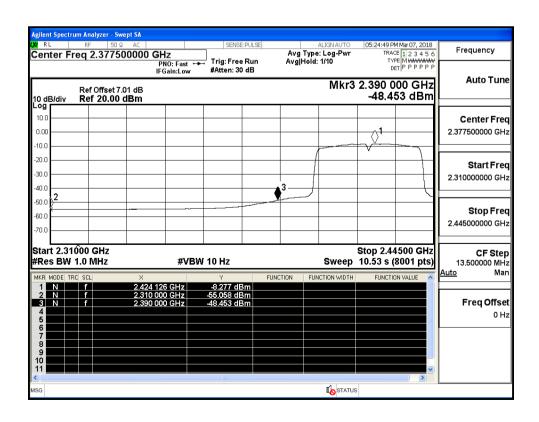
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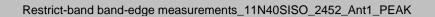


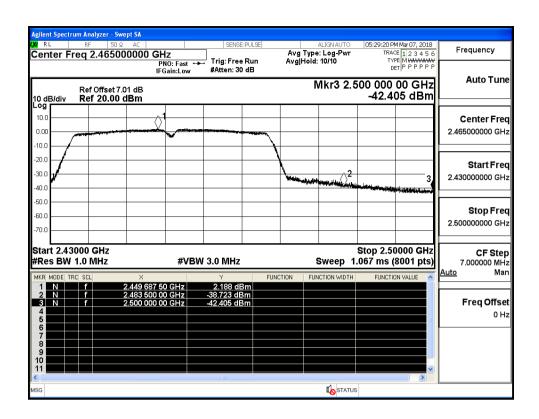




Restrict-band band-edge measurements_11N40SISO_2422_Ant1_AV







Restrict-band band-edge measurements_11N40SISO_2452_Ant1_AV

