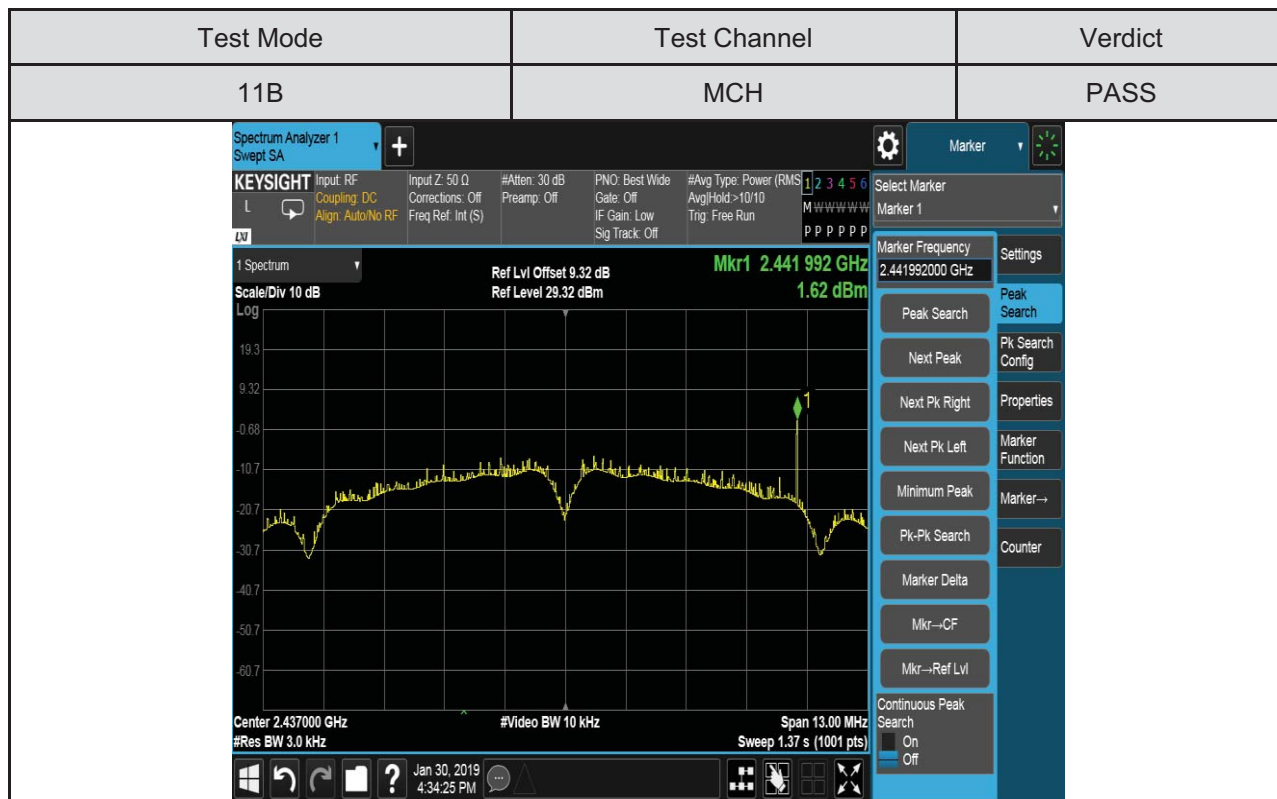
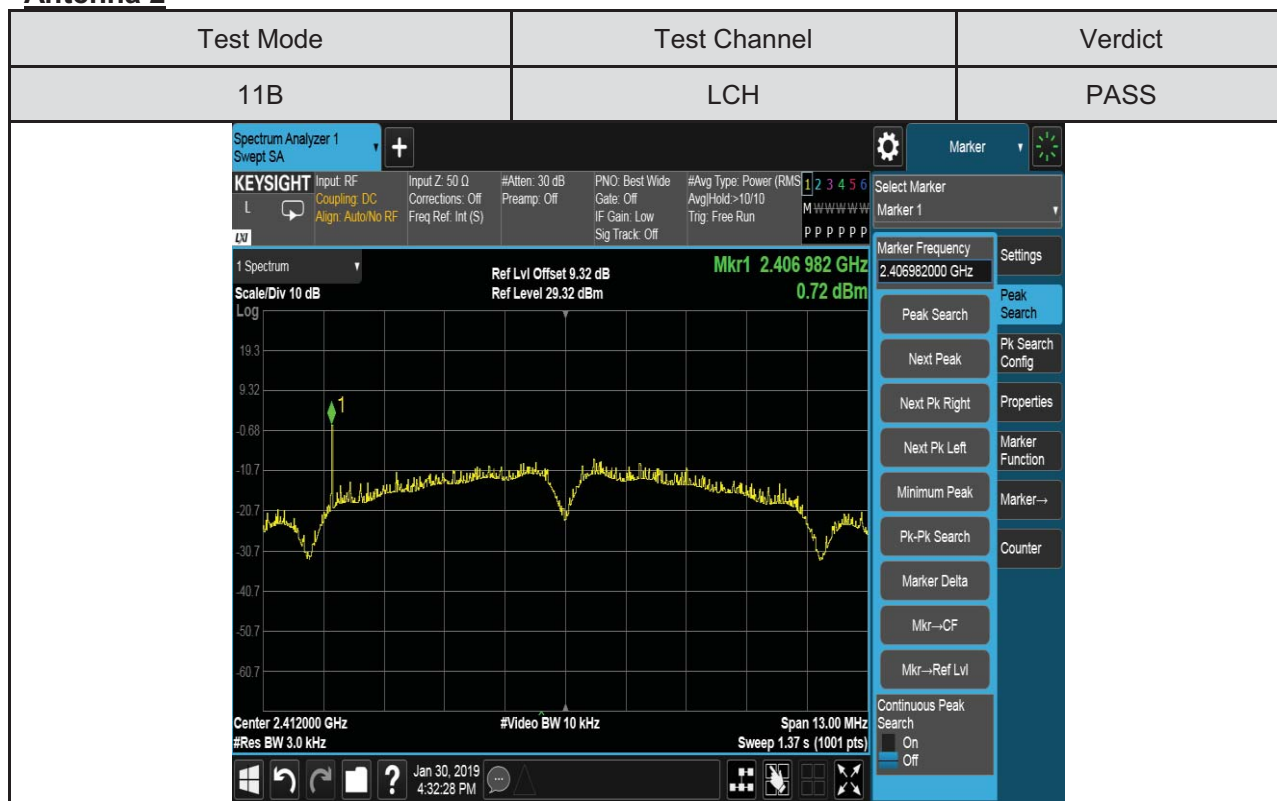
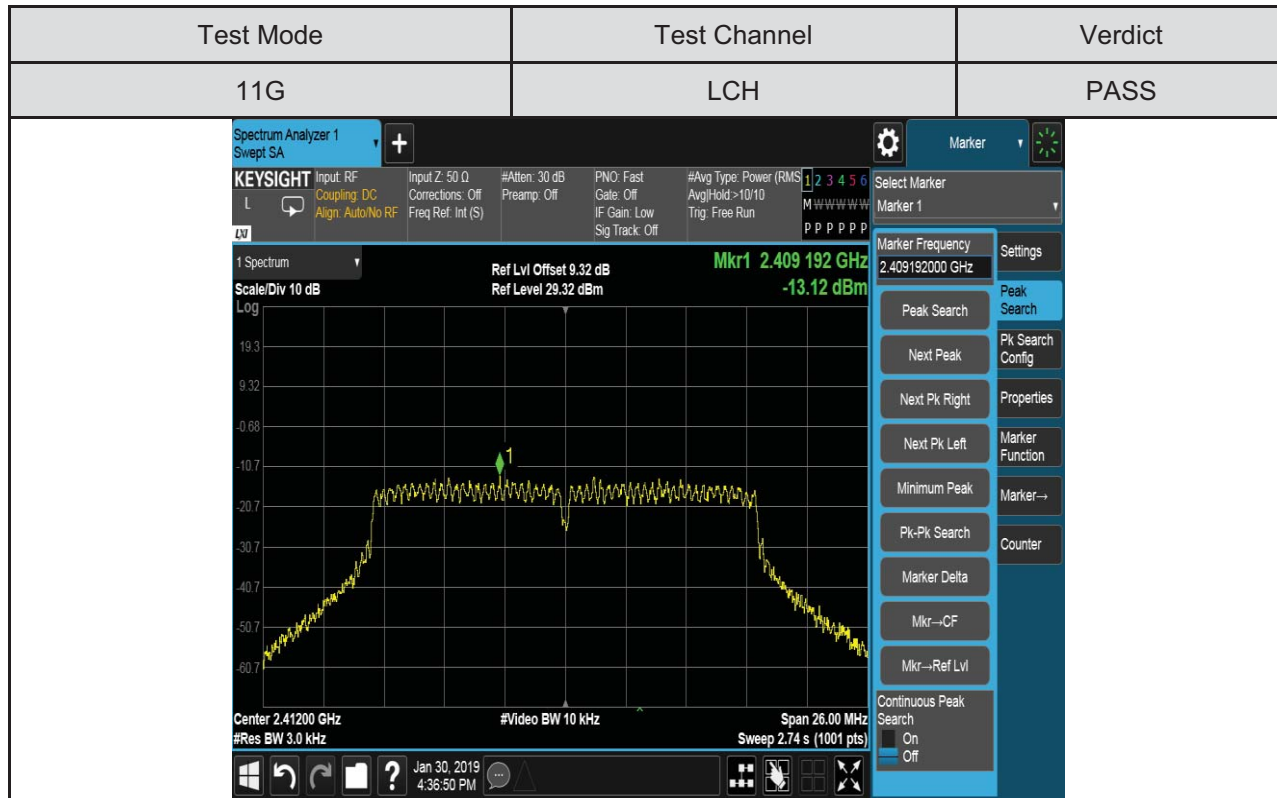
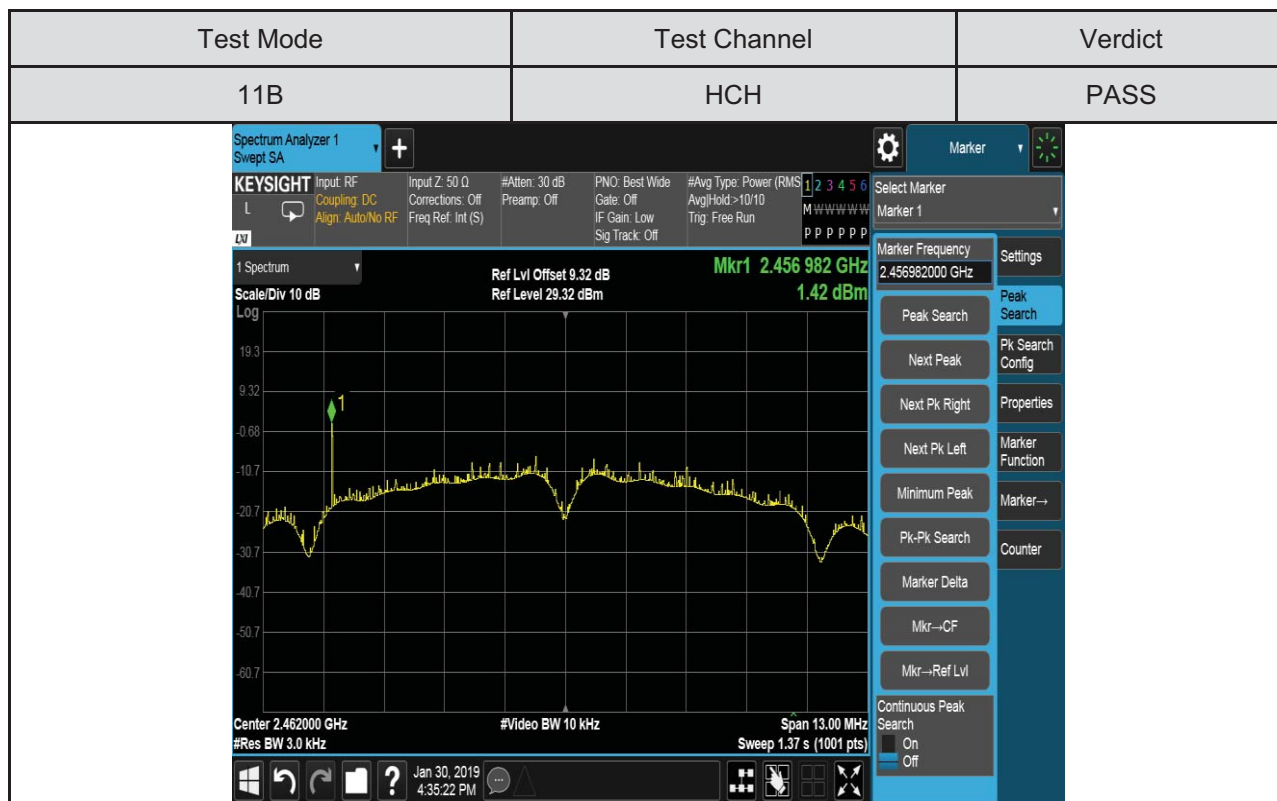
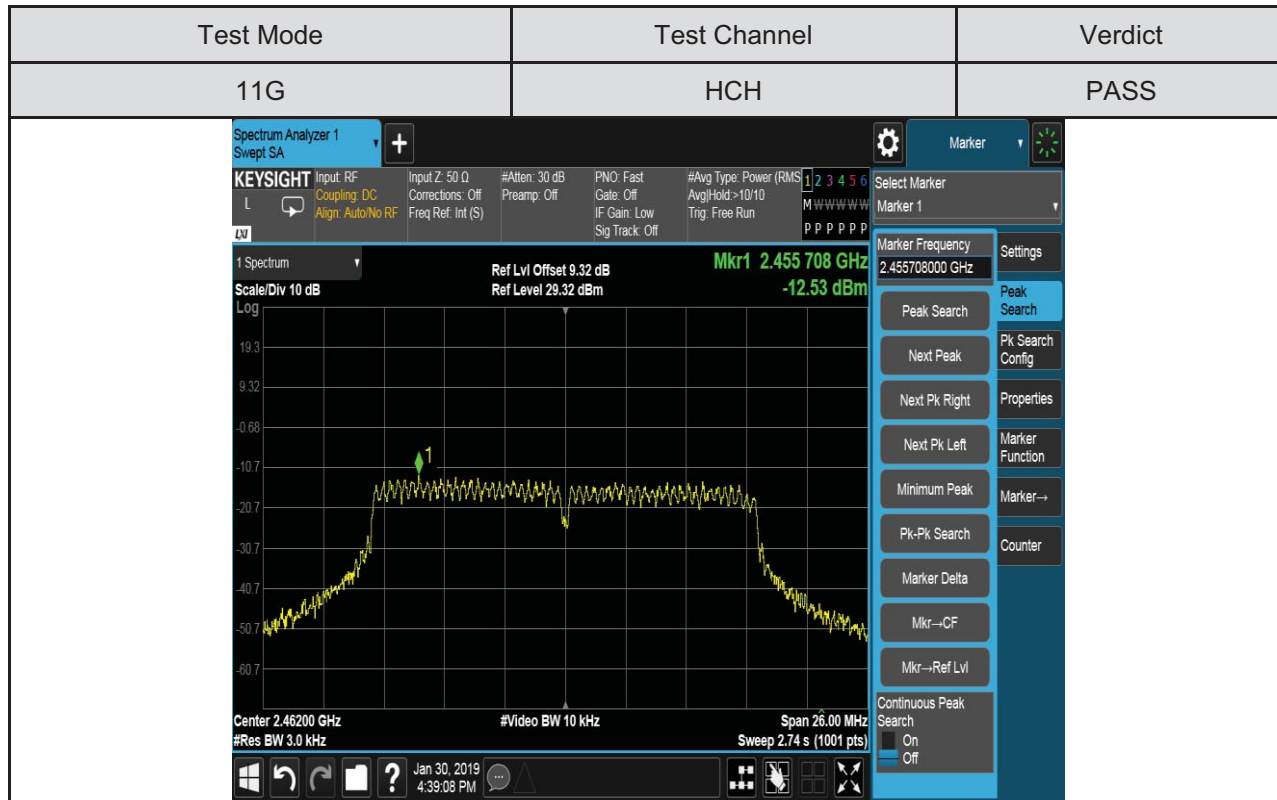
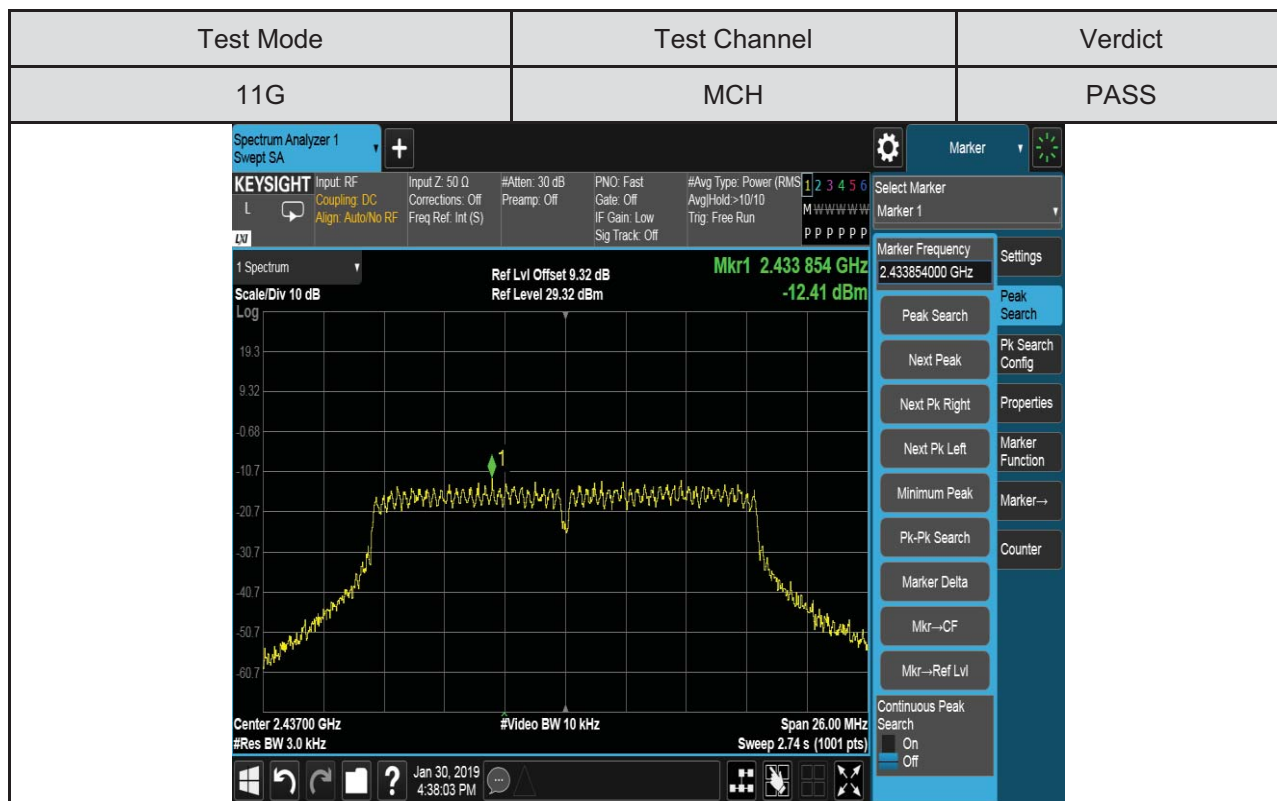


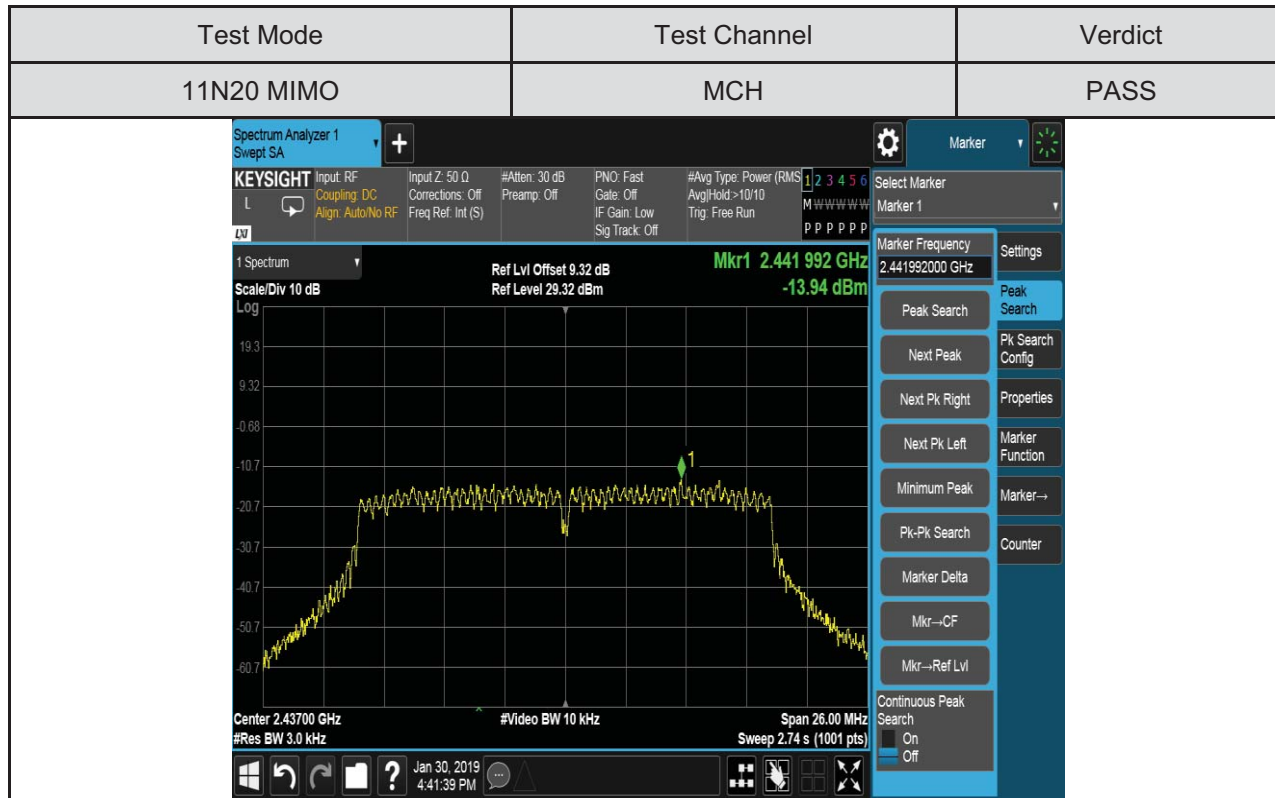
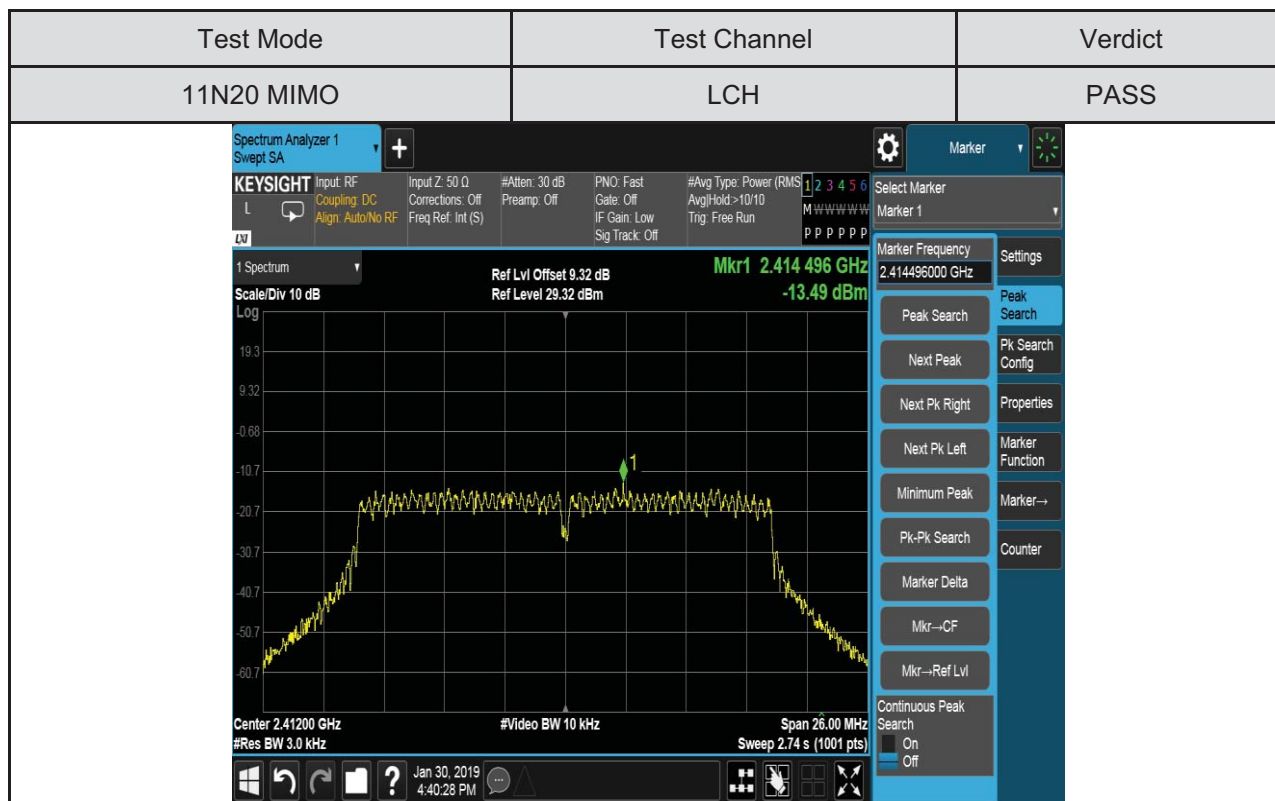


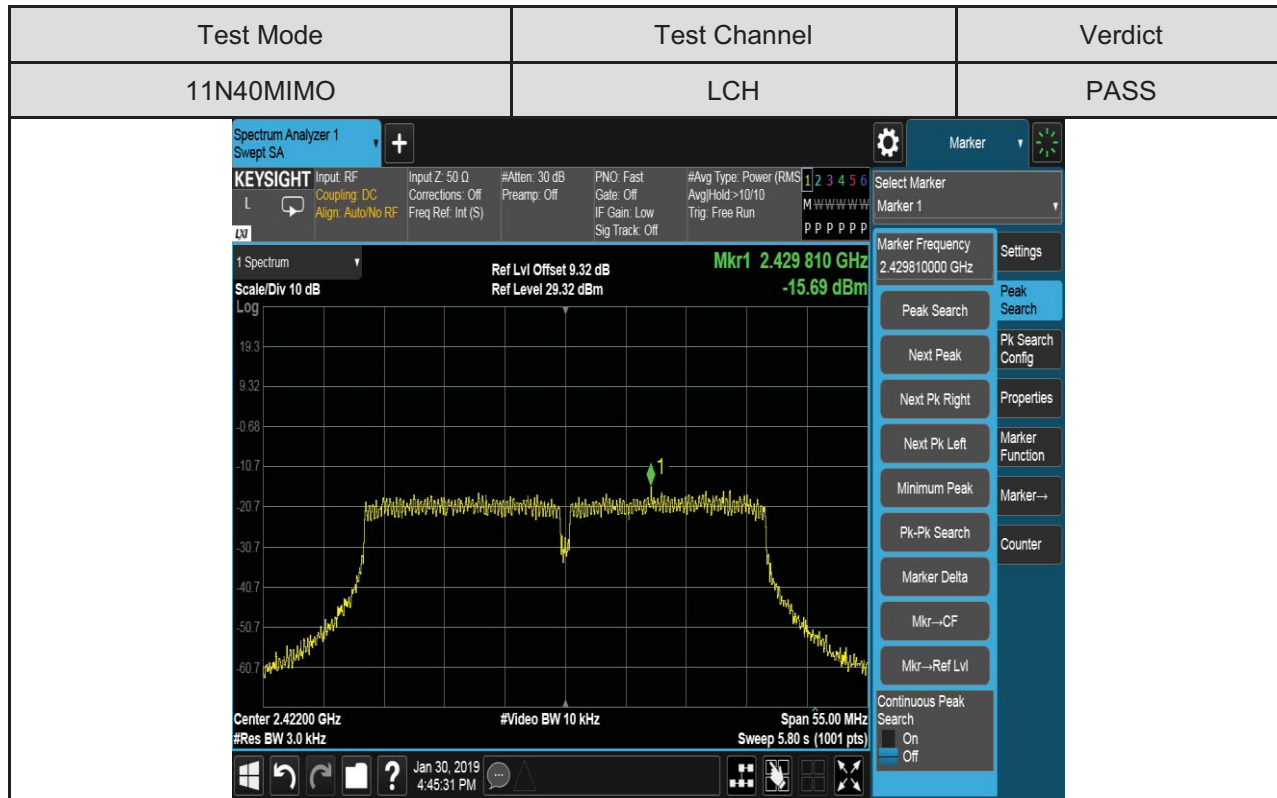
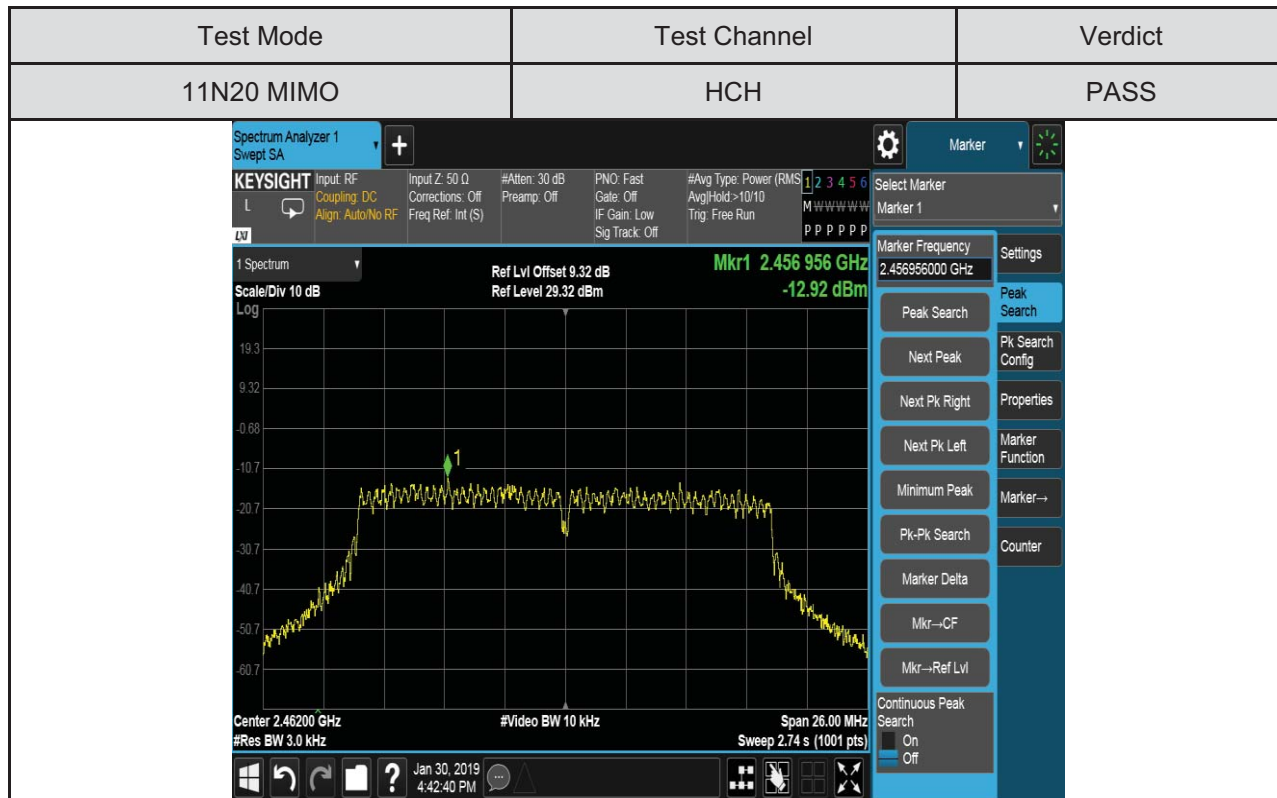
Antenna 2

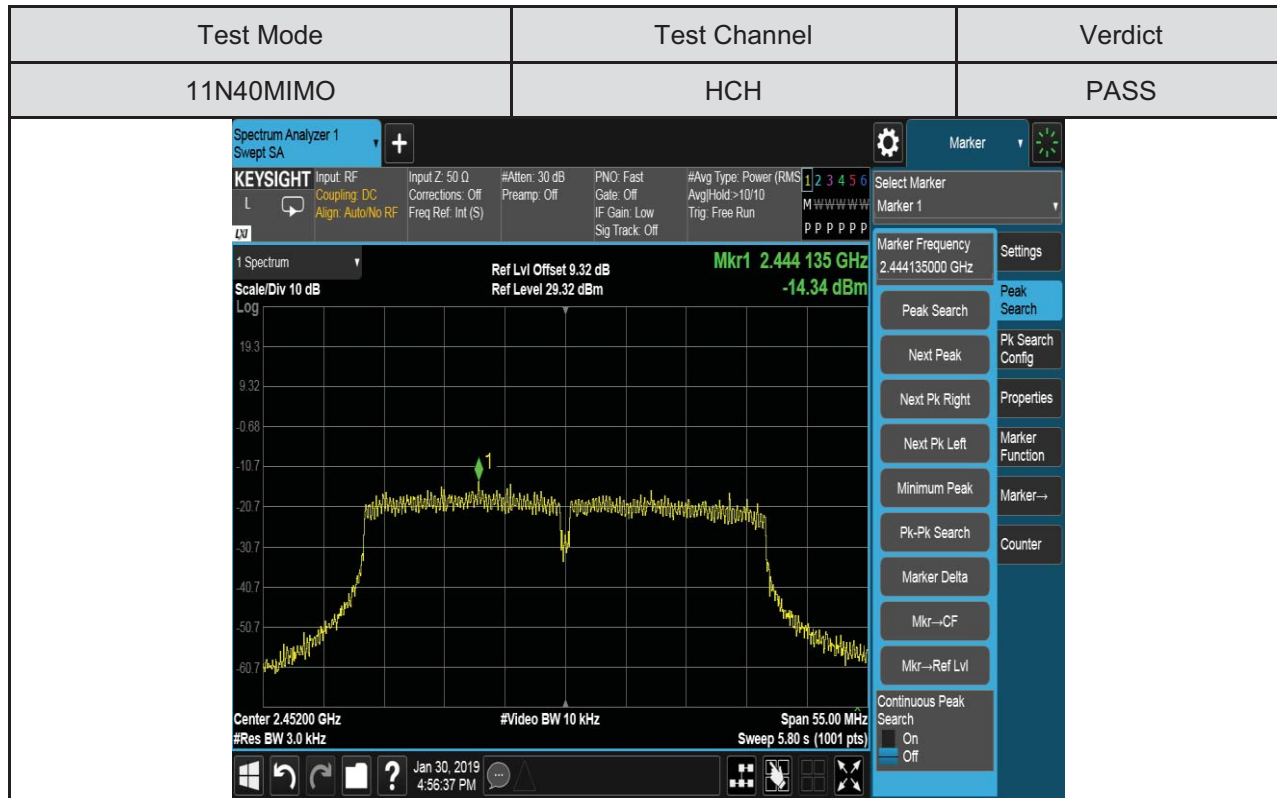
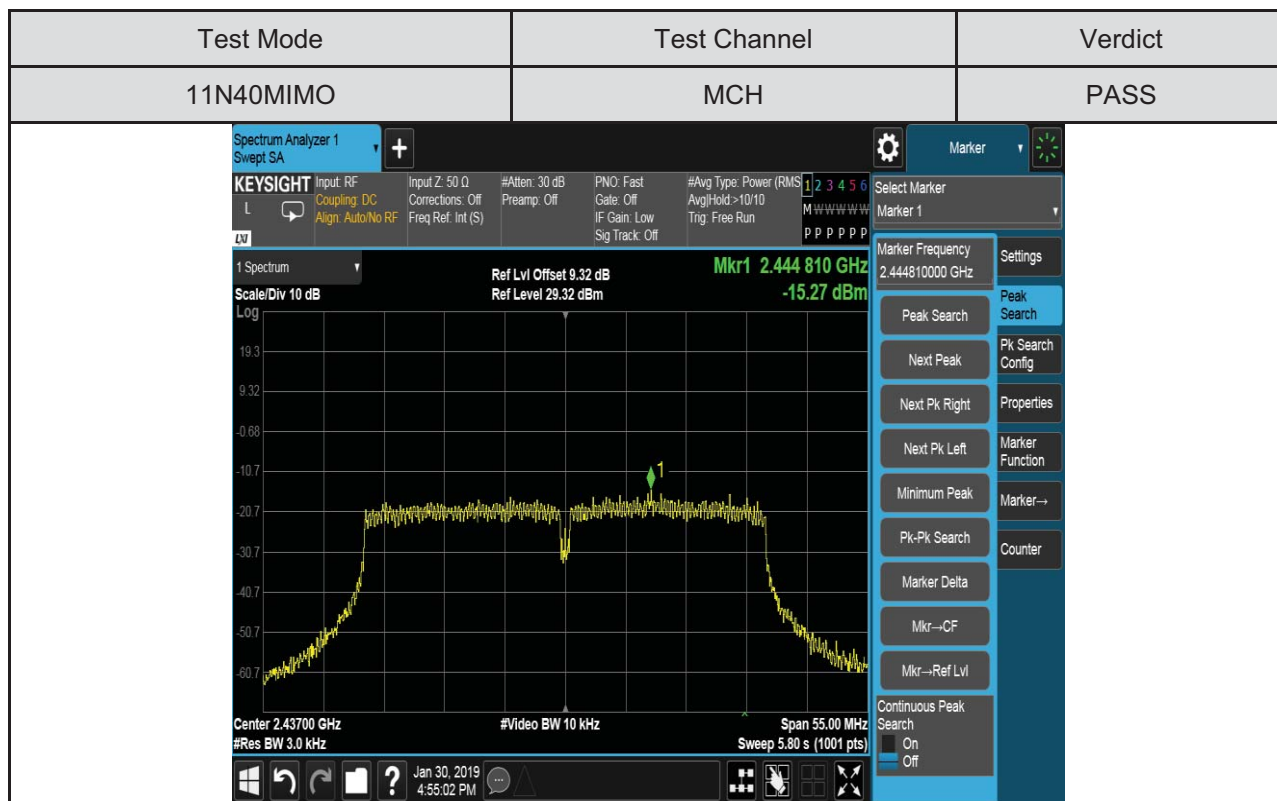














6.5. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

LIMITS

FCC Part15 (15.247) , Subpart C		
Section	Test Item	Limit
FCC §15.247 (d) RSS-247 5.5	Conducted Band-edge and Spurious Emissions	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

Refer to FCC KDB 558074, connect the UUT to the spectrum analyzer and use the following

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	100K
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

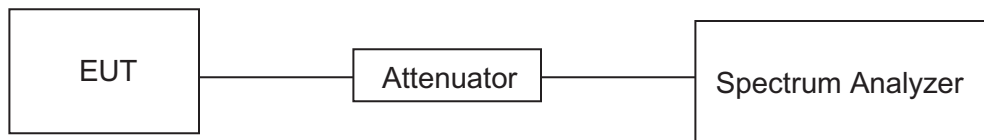
settings:

Use the peak marker function to determine the maximum PSD level.

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100K
VBW	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span}/\text{RBW}$
Trace	Max hold
Sweep time	Auto couple.

Use the peak marker function to determine the maximum amplitude level.

TEST SETUP





Part I :Conducted Bandedge

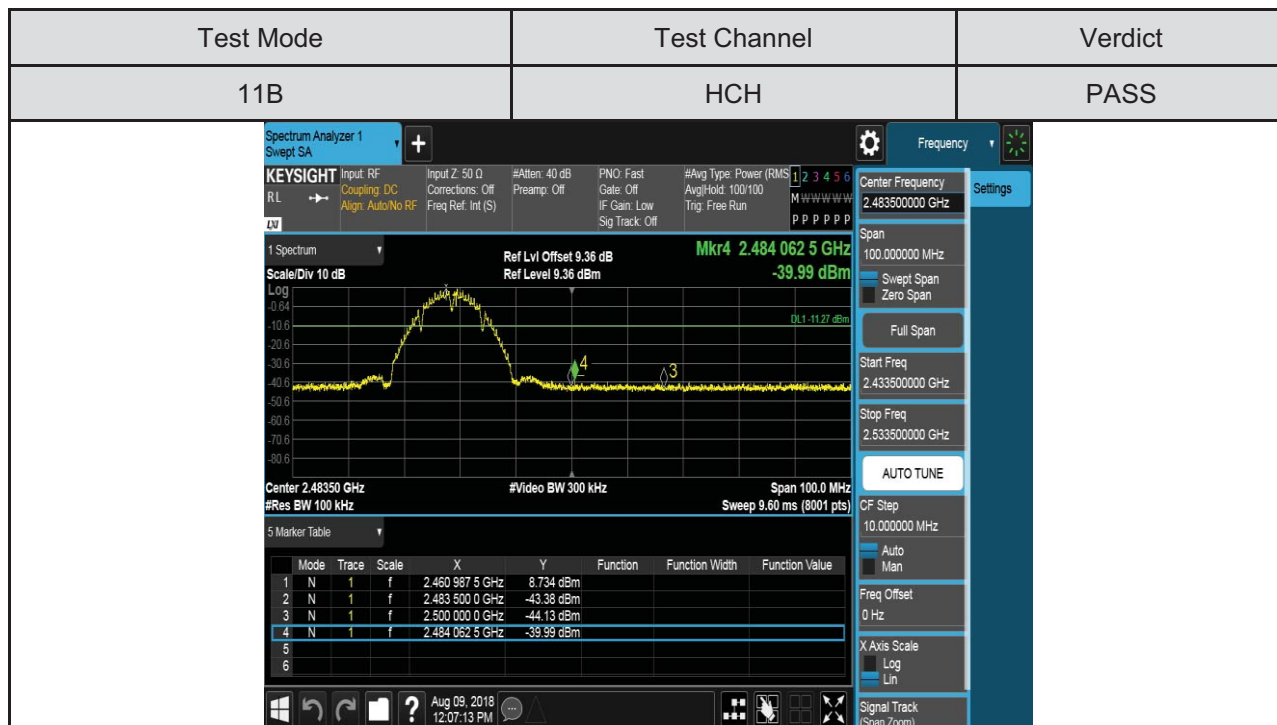
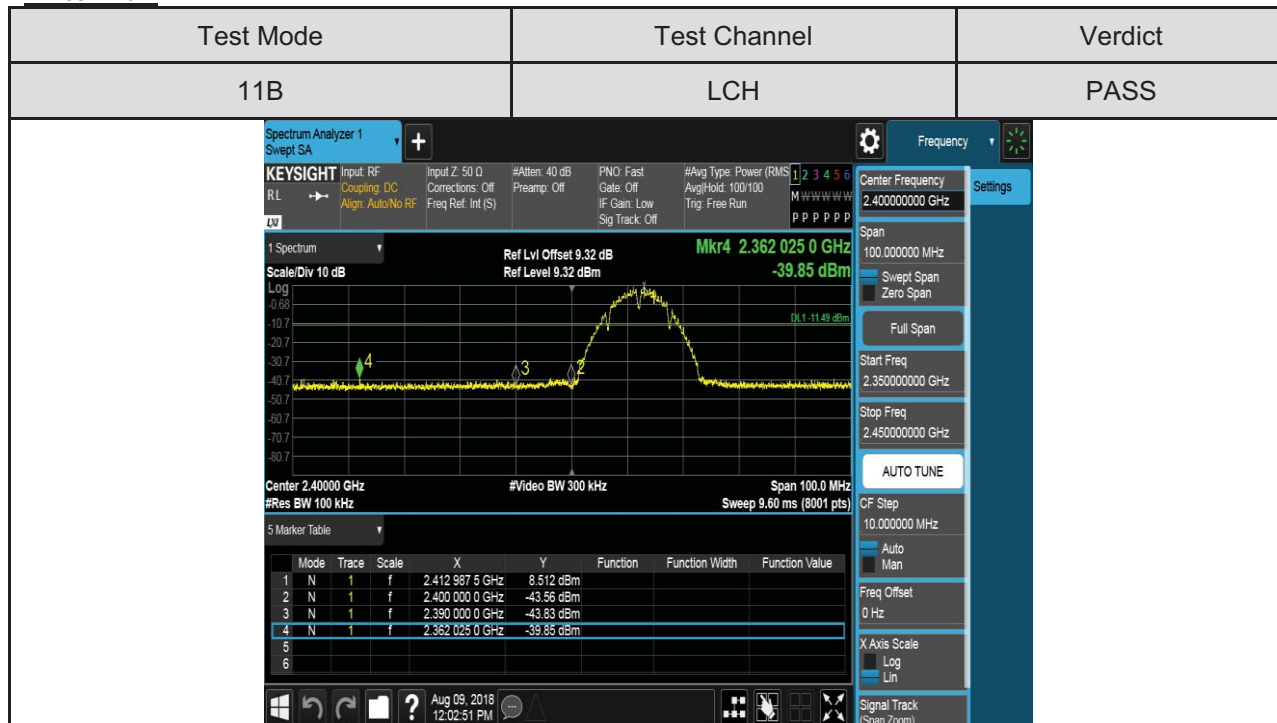
RESULTS TABLE

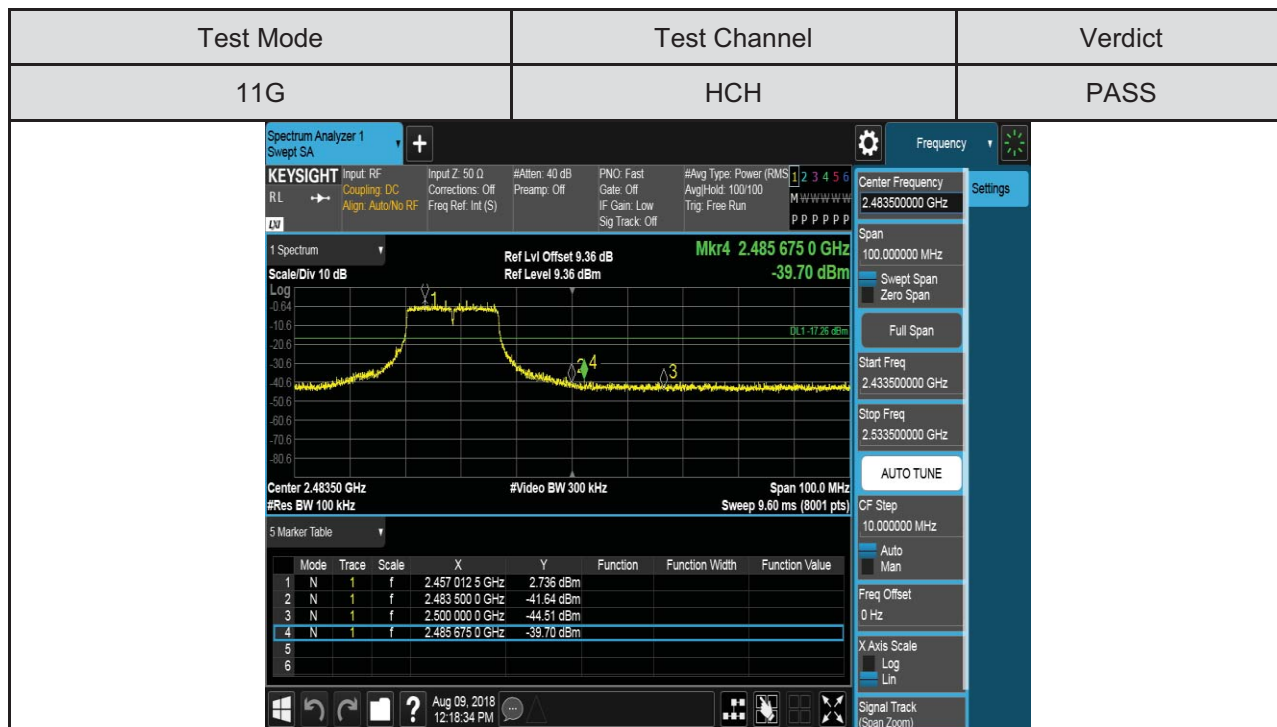
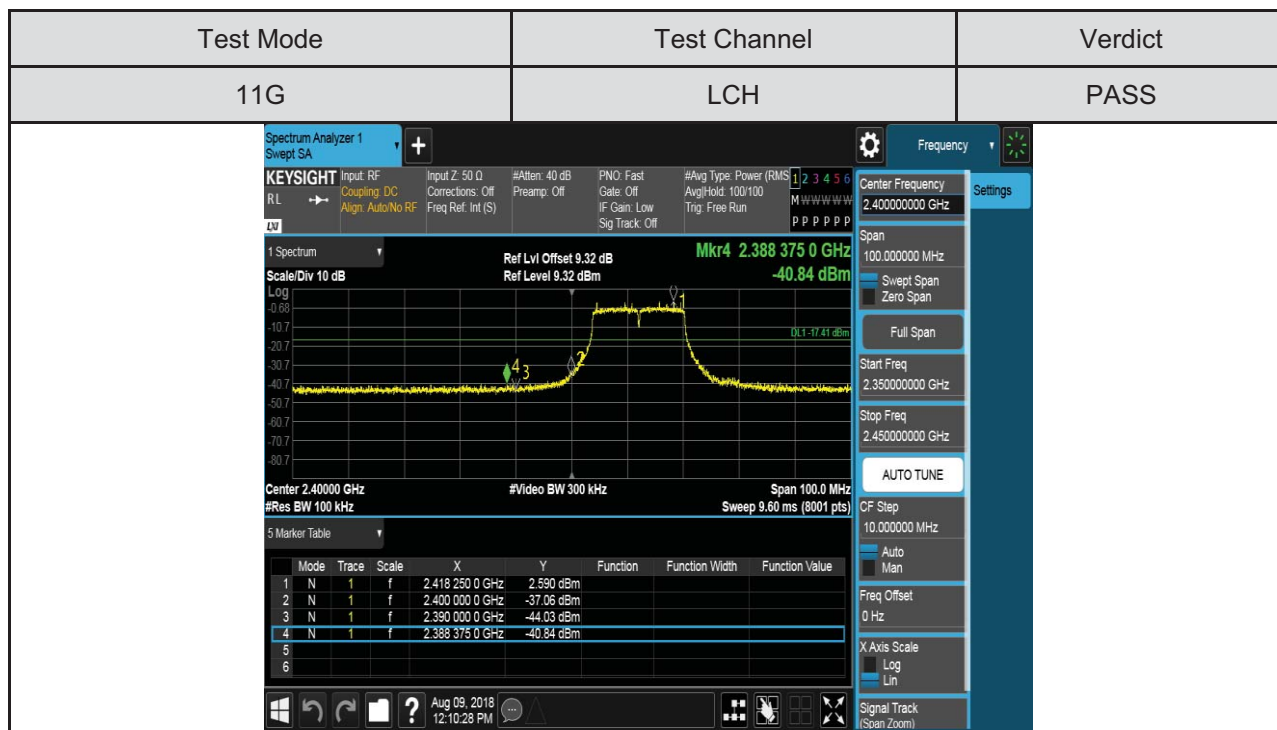
Test Mode	Test Antenna	Test Channel	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
11B	Antenna 1	2412	8.512	-39.847	-11.49	PASS
		2462	8.734	-39.990	-11.27	PASS
	Antenna 2	2412	8.794	-40.612	-11.21	PASS
		2462	9.084	-40.276	-10.92	PASS
11G	Antenna 1	2412	2.590	-40.845	-17.41	PASS
		2462	2.736	-39.700	-17.26	PASS
	Antenna 2	2412	2.819	-41.056	-17.18	PASS
		2462	3.194	-39.570	-16.81	PASS
11N20 MIMO	Antenna 1	2412	1.877	-40.152	-18.12	PASS
		2462	2.157	-40.462	-17.84	PASS
	Antenna 2	2412	1.842	-40.375	-18.16	PASS
		2462	2.492	-39.676	-17.51	PASS
11N40MIMO	Antenna 1	2422	-0.645	-39.545	-20.65	PASS
		2452	-0.907	-37.112	-20.91	PASS
	Antenna 2	2422	-0.320	-39.974	-20.32	PASS
		2452	-0.029	-36.514	-20.03	PASS

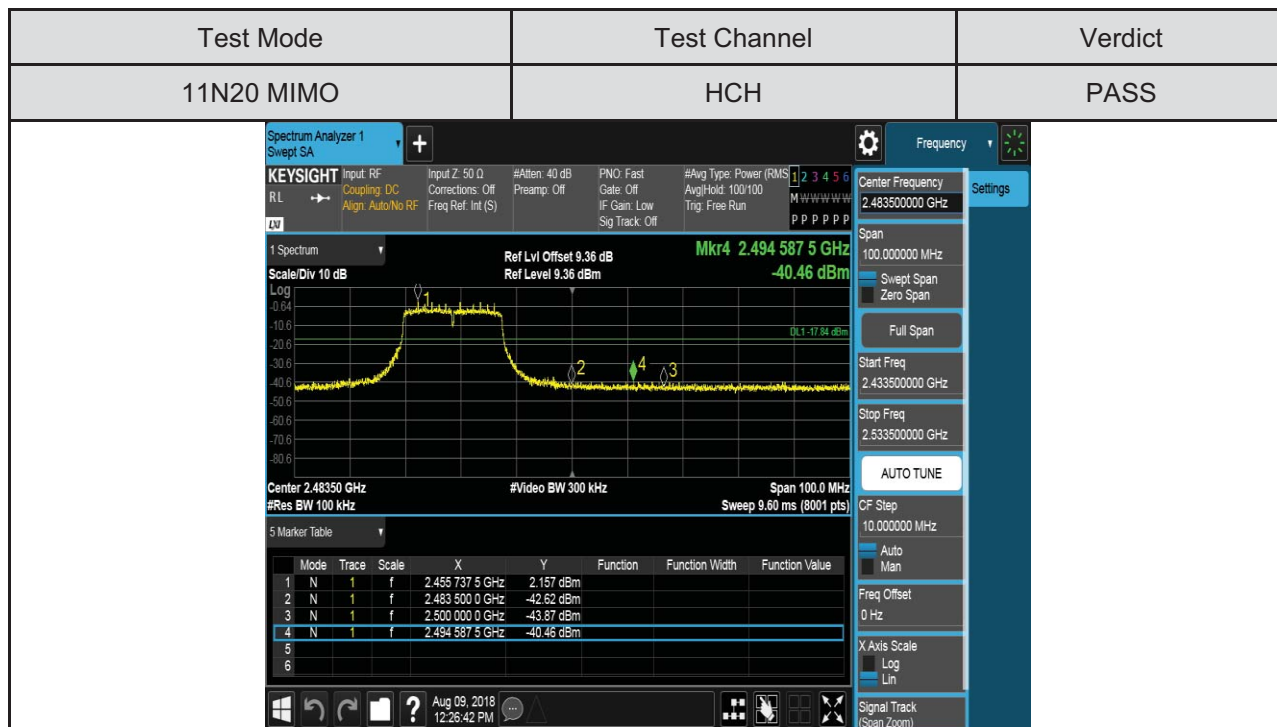
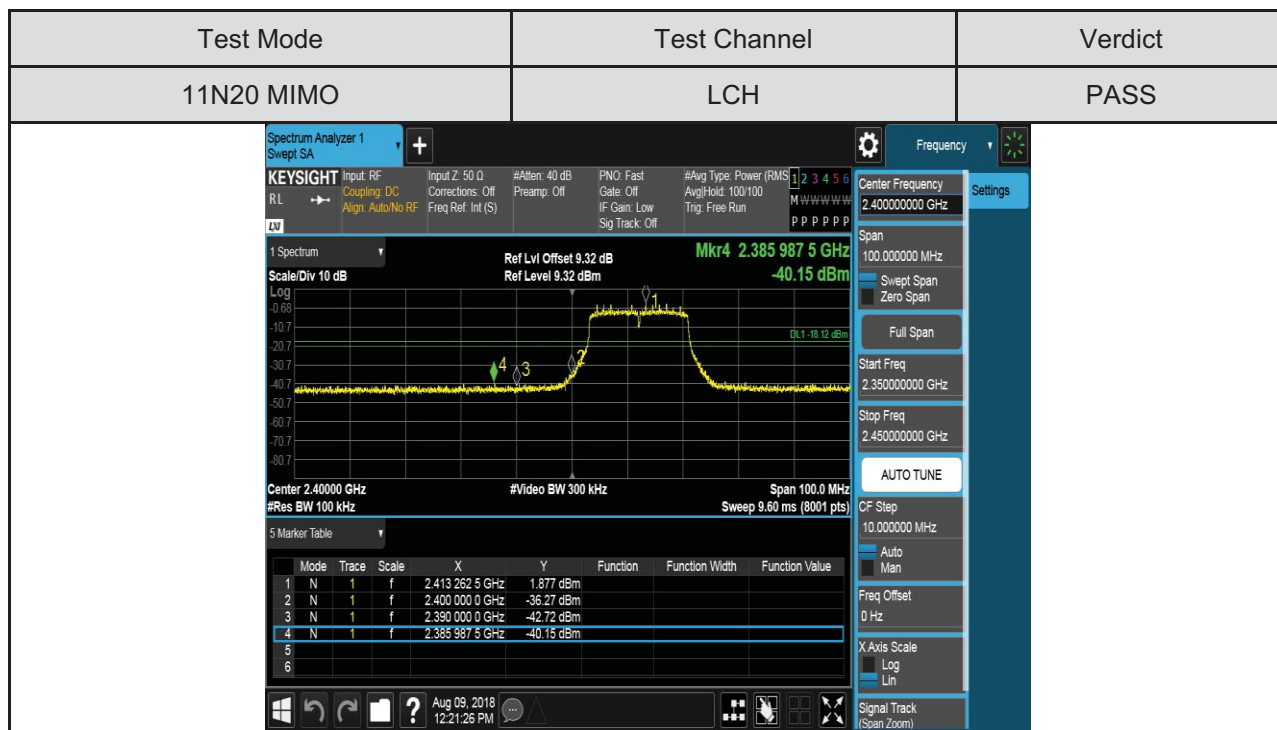


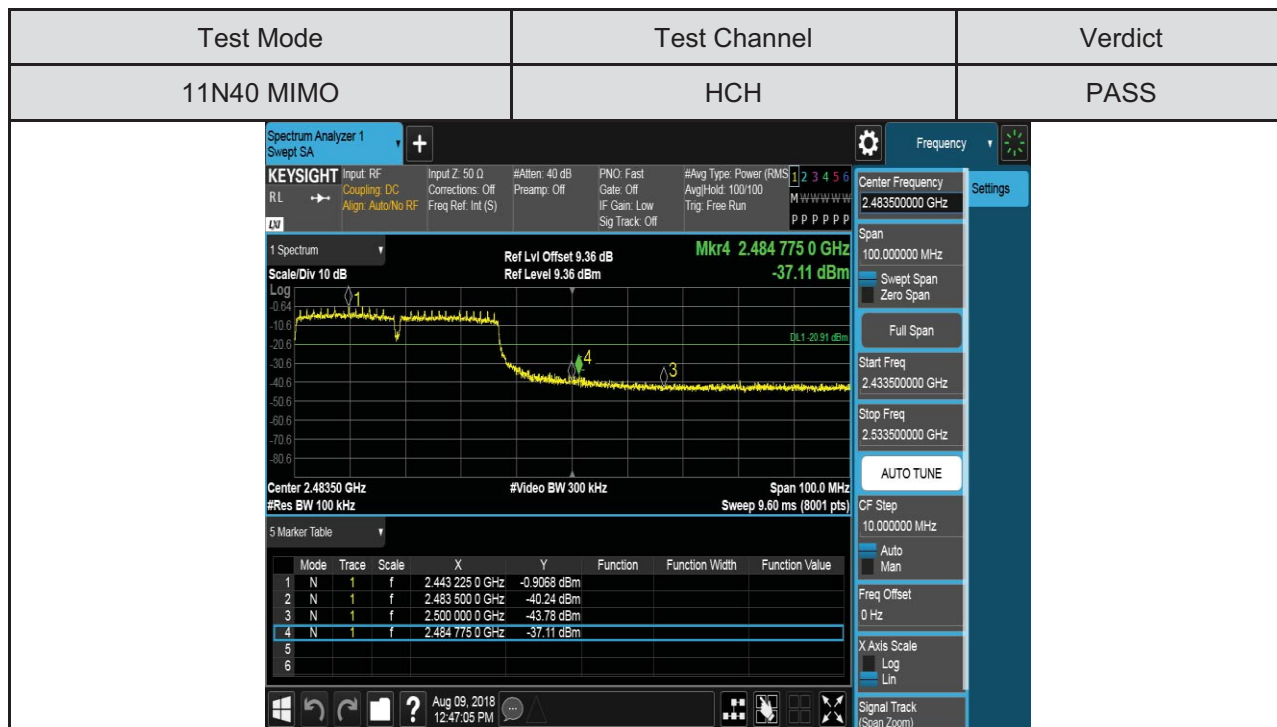
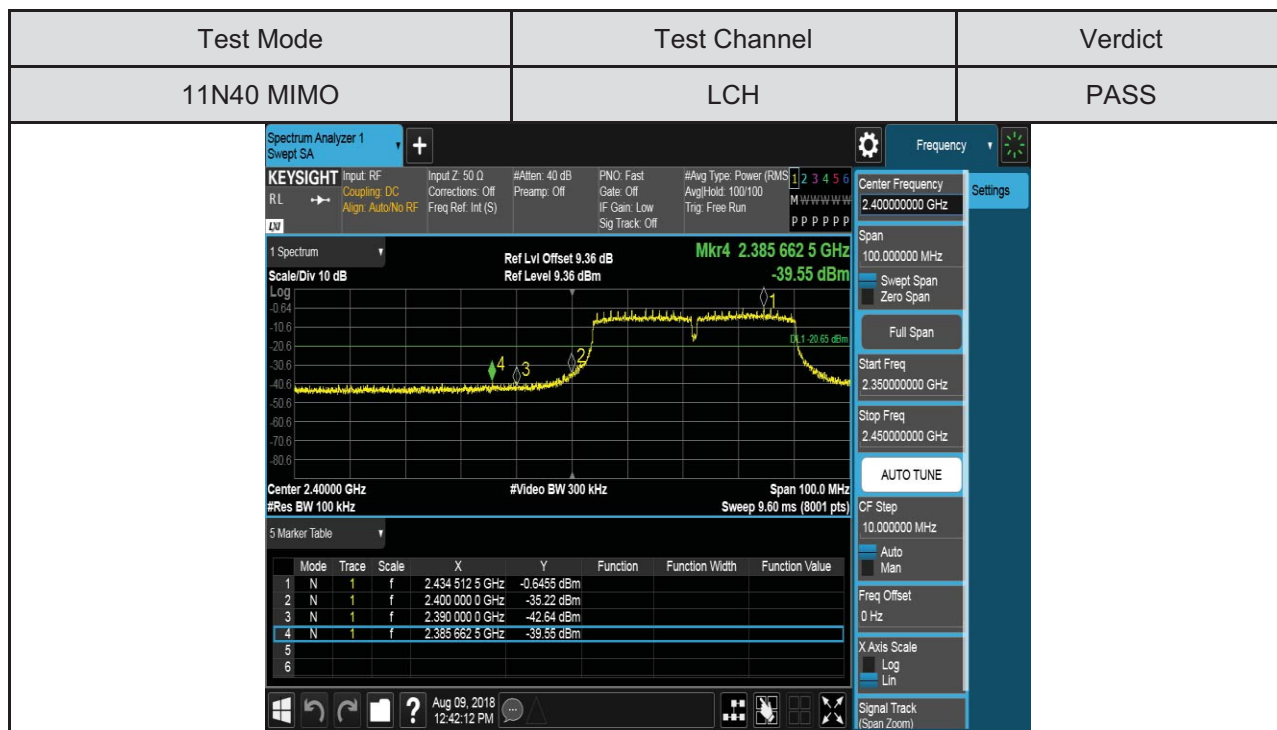
TEST GRAPHS

Antenna1



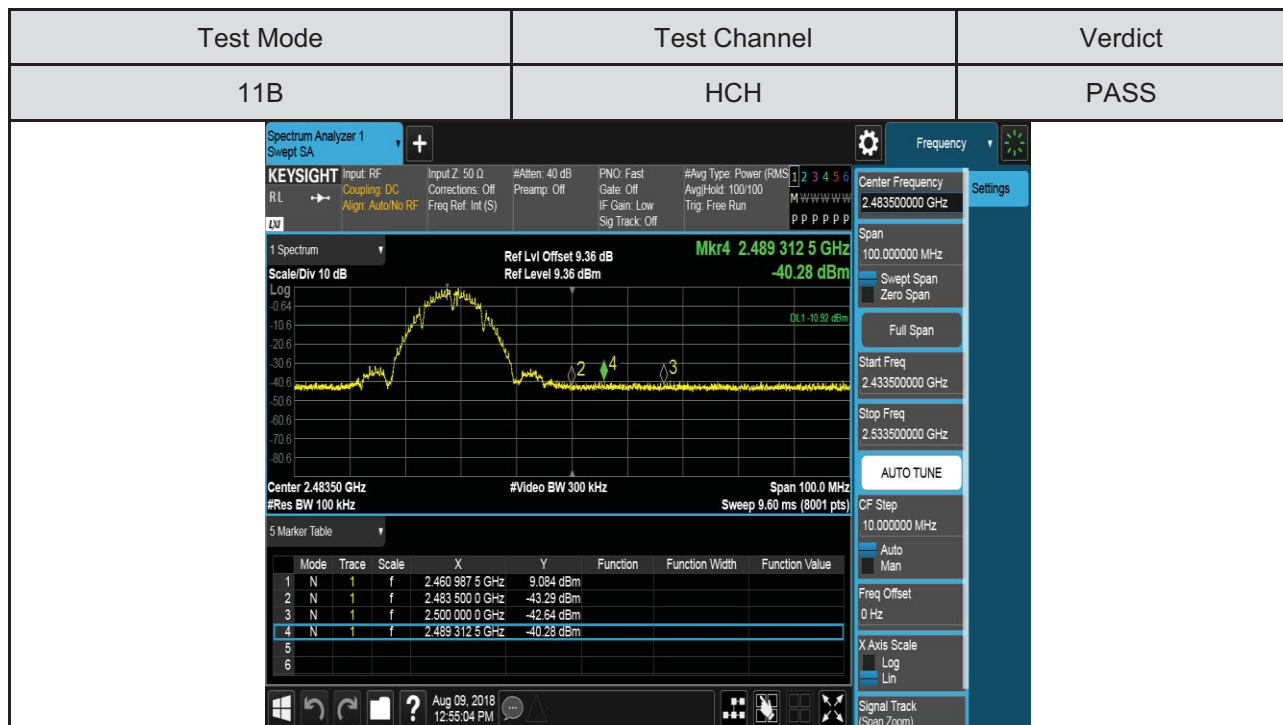
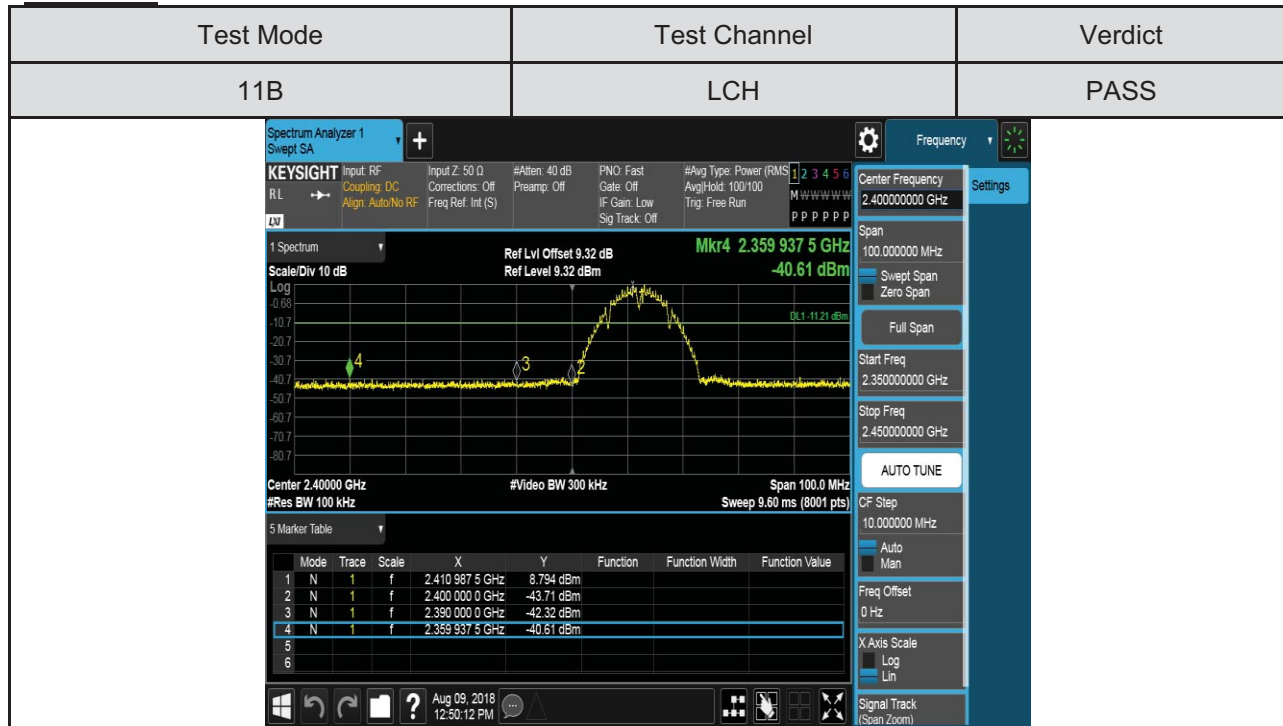


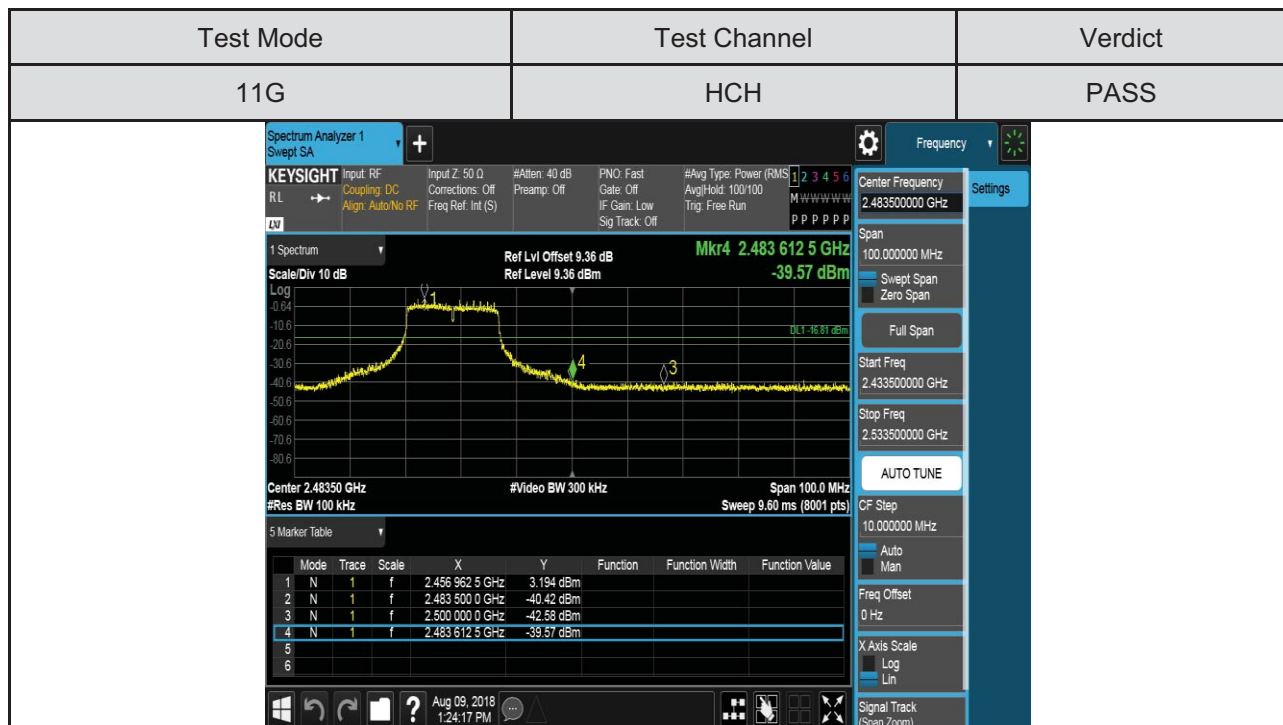
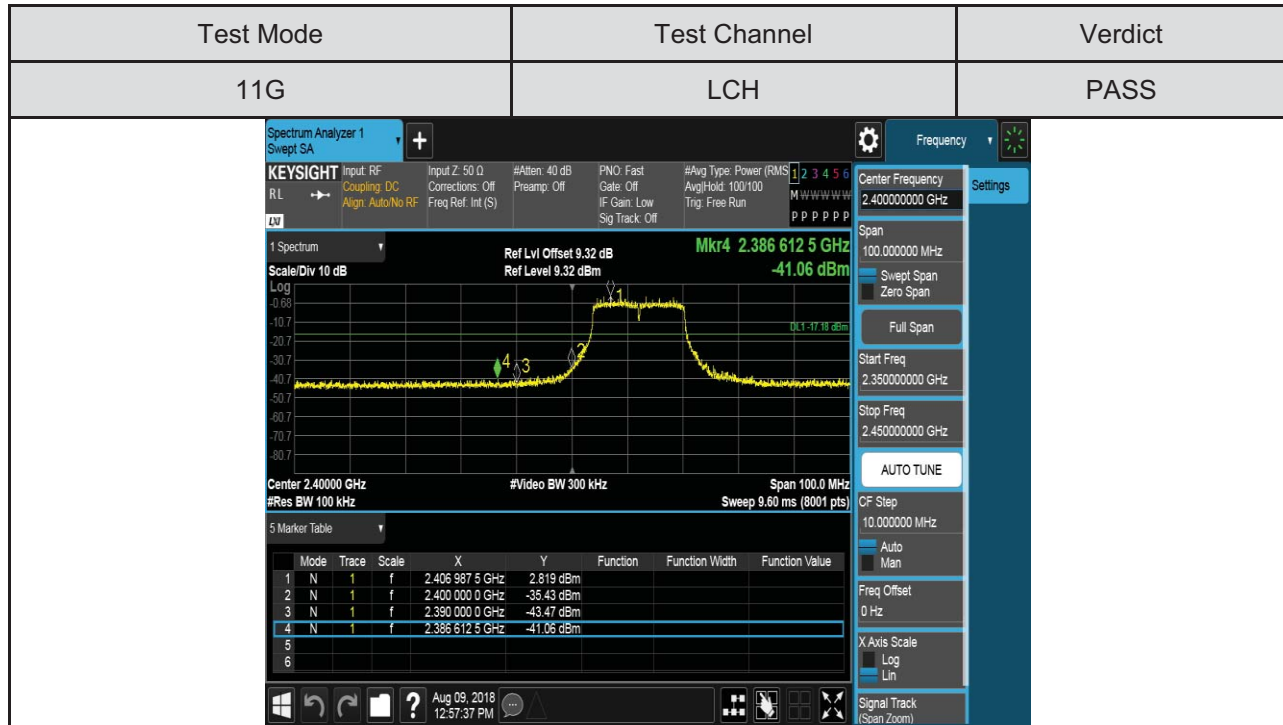


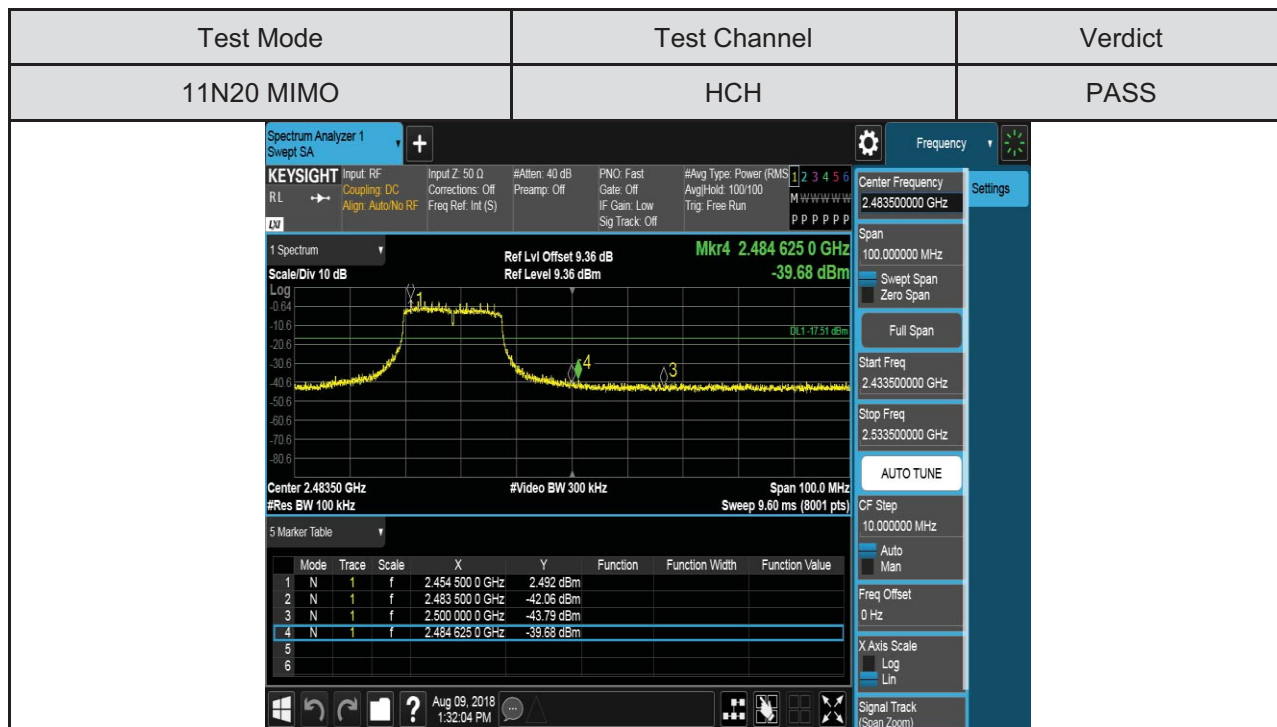
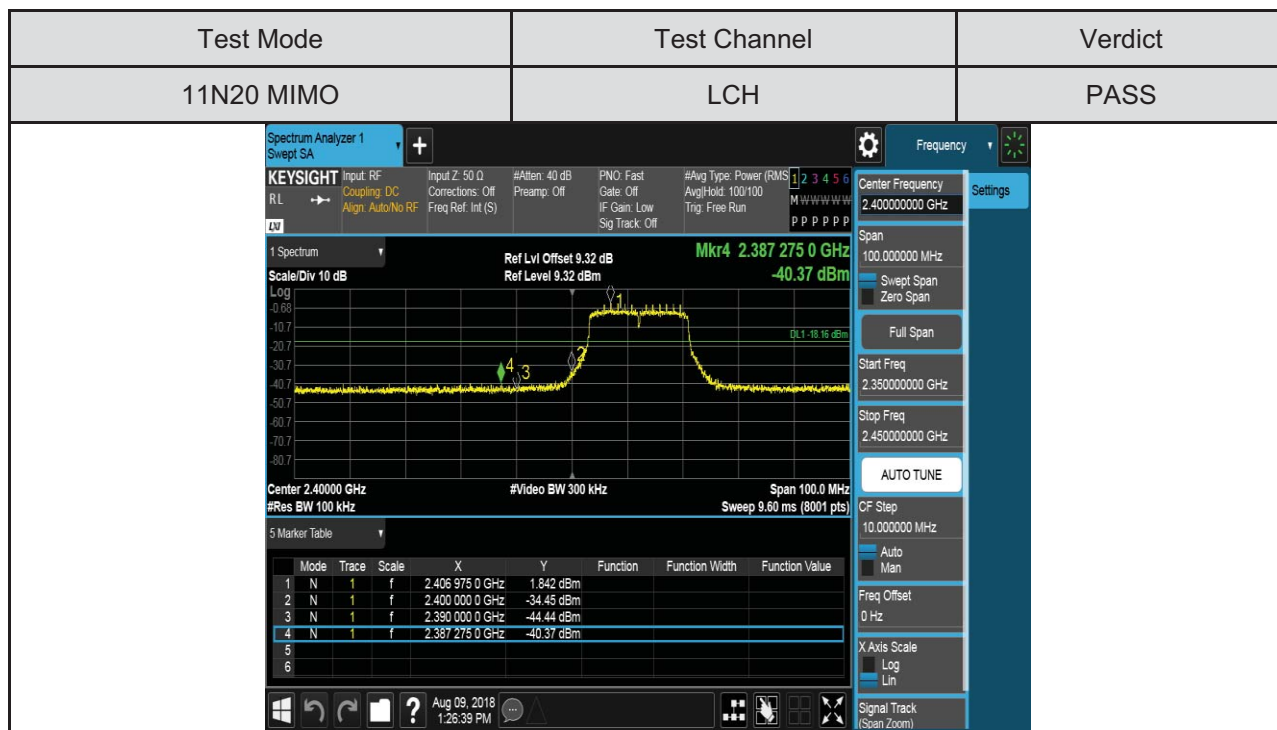


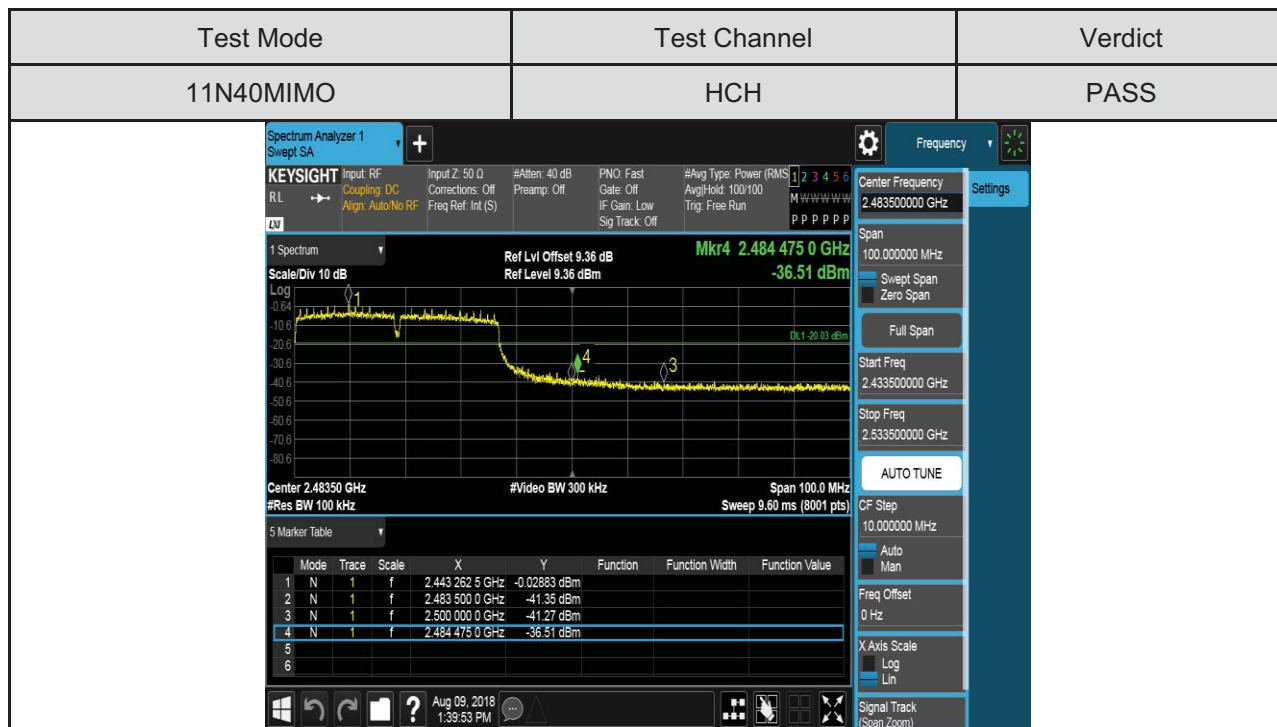
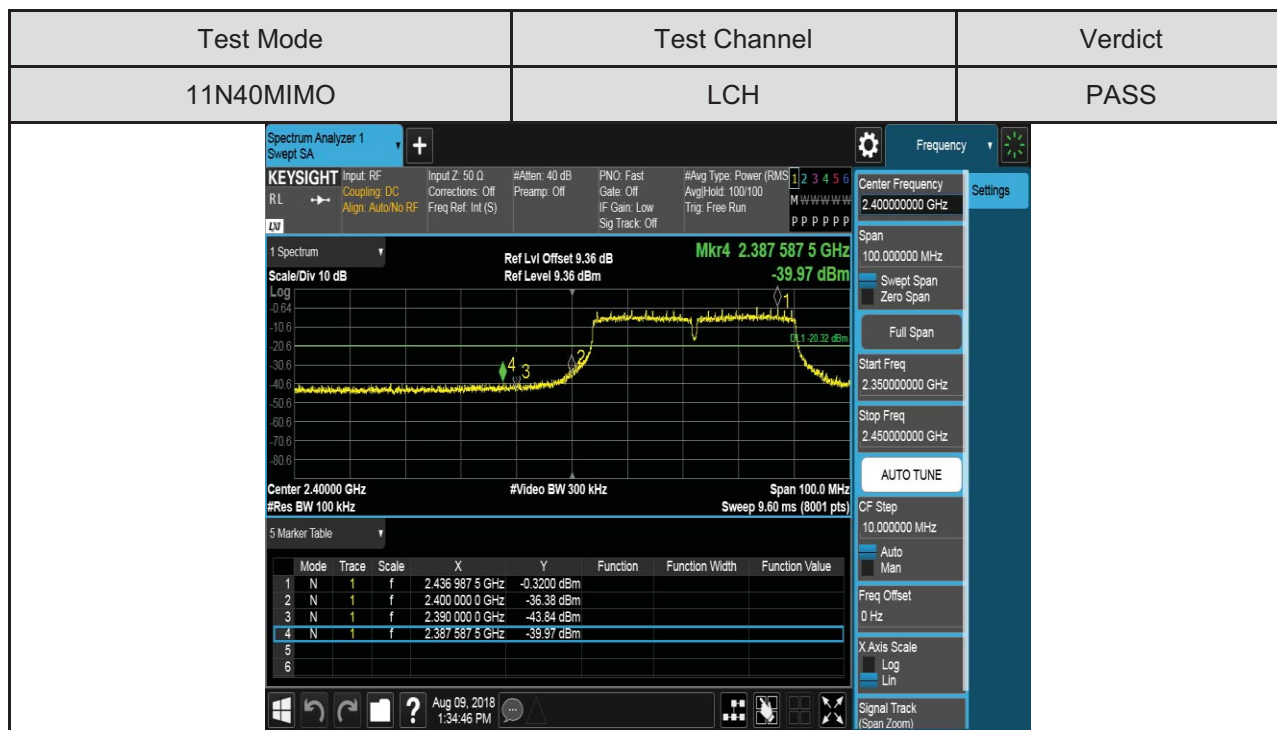


Antenna2











Part II :Conducted Spurious Emissions

Test Result Table

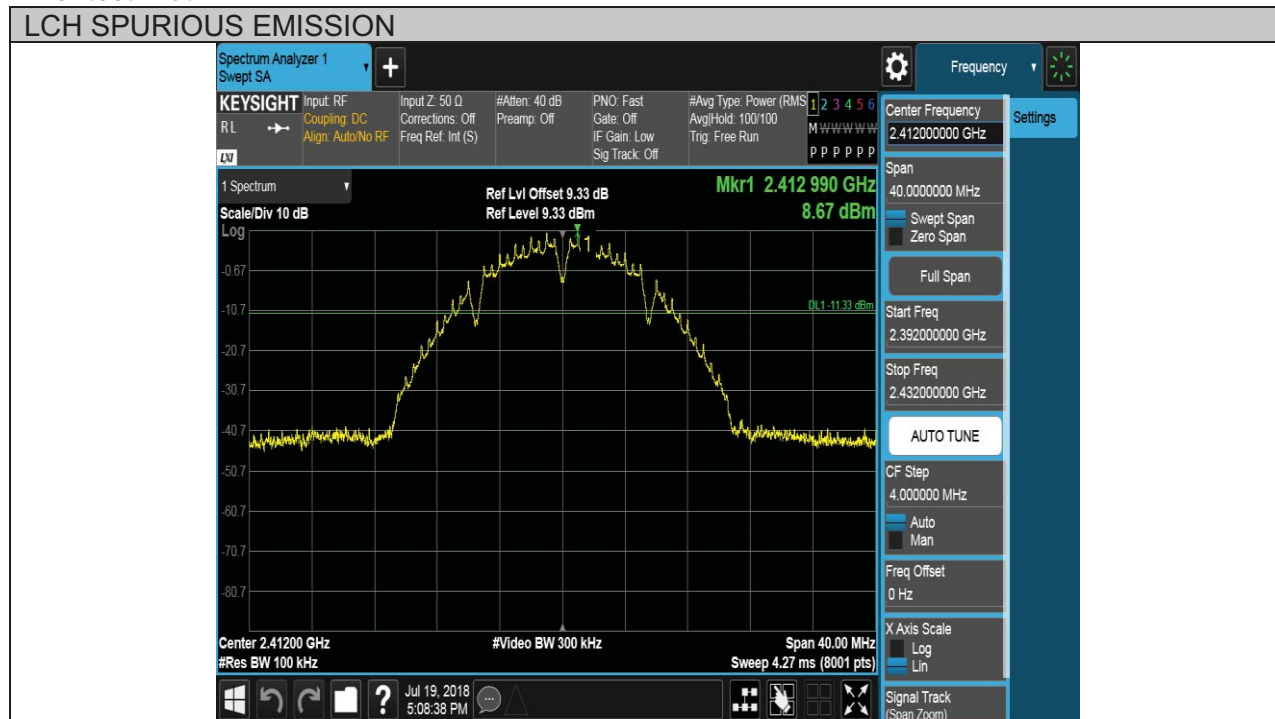
Test Mode	Test Antenna	Channel	Pref(dBm)	Puw(dBm)	Verdict
11B	Antenna 1	LCH	8.672	<Limit	PASS
		MCH	9.34	<Limit	PASS
		HCH	8.711	<Limit	PASS
	Antenna 2	LCH	8.779	<Limit	PASS
		MCH	9.156	<Limit	PASS
		HCH	9.078	<Limit	PASS
11G	Antenna 1	LCH	3.122	<Limit	PASS
		MCH	3.458	<Limit	PASS
		HCH	2.999	<Limit	PASS
	Antenna 2	LCH	3.406	<Limit	PASS
		MCH	3.307	<Limit	PASS
		HCH	3.57	<Limit	PASS
11N20 MIMO	Antenna 1	LCH	1.684	<Limit	PASS
		MCH	2.672	<Limit	PASS
		HCH	1.775	<Limit	PASS
	Antenna 2	LCH	1.71	<Limit	PASS
		MCH	2.696	<Limit	PASS
		HCH	2.438	<Limit	PASS
11N40 MIMO	Antenna 1	LCH	-0.341	<Limit	PASS
		MCH	-0.381	<Limit	PASS
		HCH	-0.718	<Limit	PASS
	Antenna 2	LCH	-0.611	<Limit	PASS
		MCH	-0.864	<Limit	PASS
		HCH	-0.629	<Limit	PASS



Test Plots
Antenna1

Test Mode	Channel	Verdict
11B	LCH	PASS

Pref test Plot





Pref test Plot

