

6.5. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

LIMITS

FCC Part15 (15.247) , Subpart C		
Section	Test Item	Limit
FCC §15.247 (d)	Conducted Bandedge 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 analyser 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.

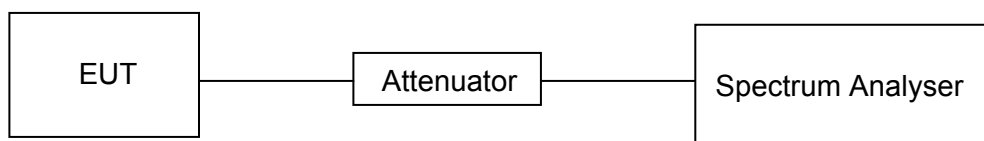
settings:

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

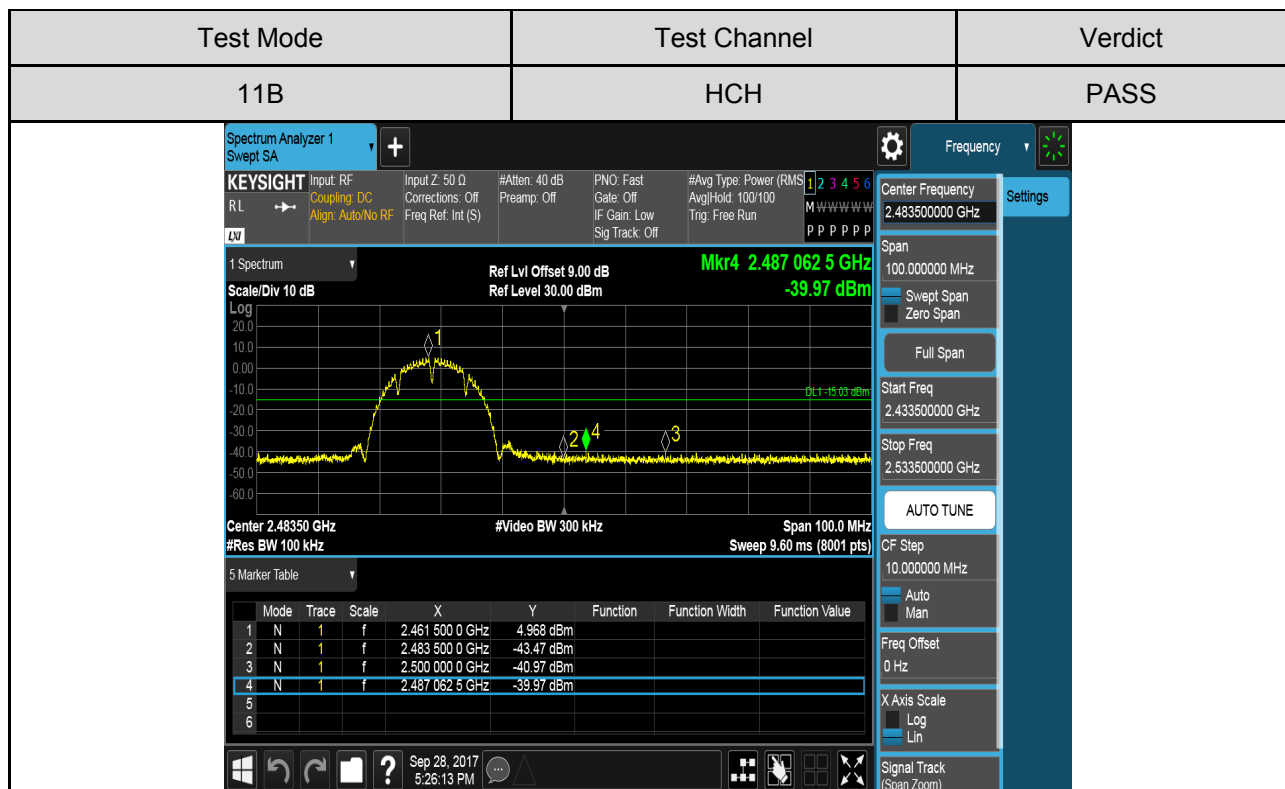
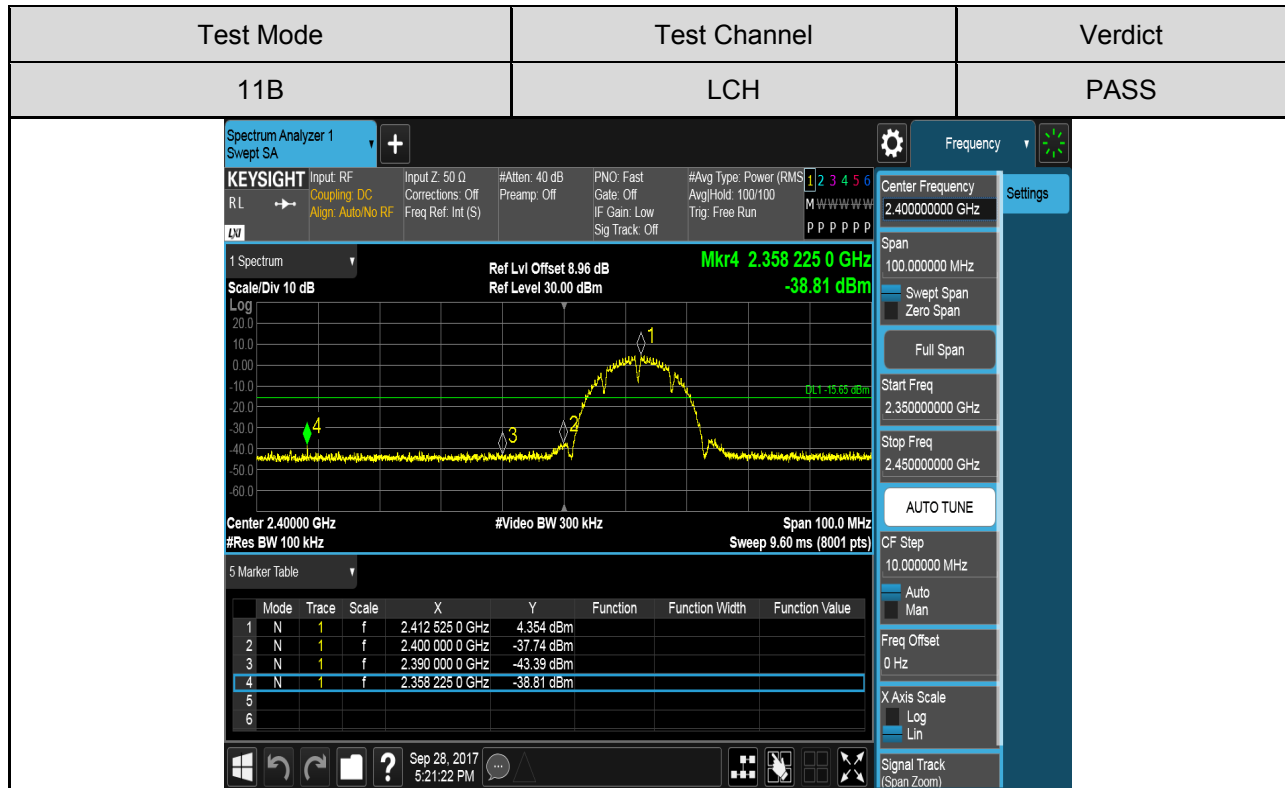


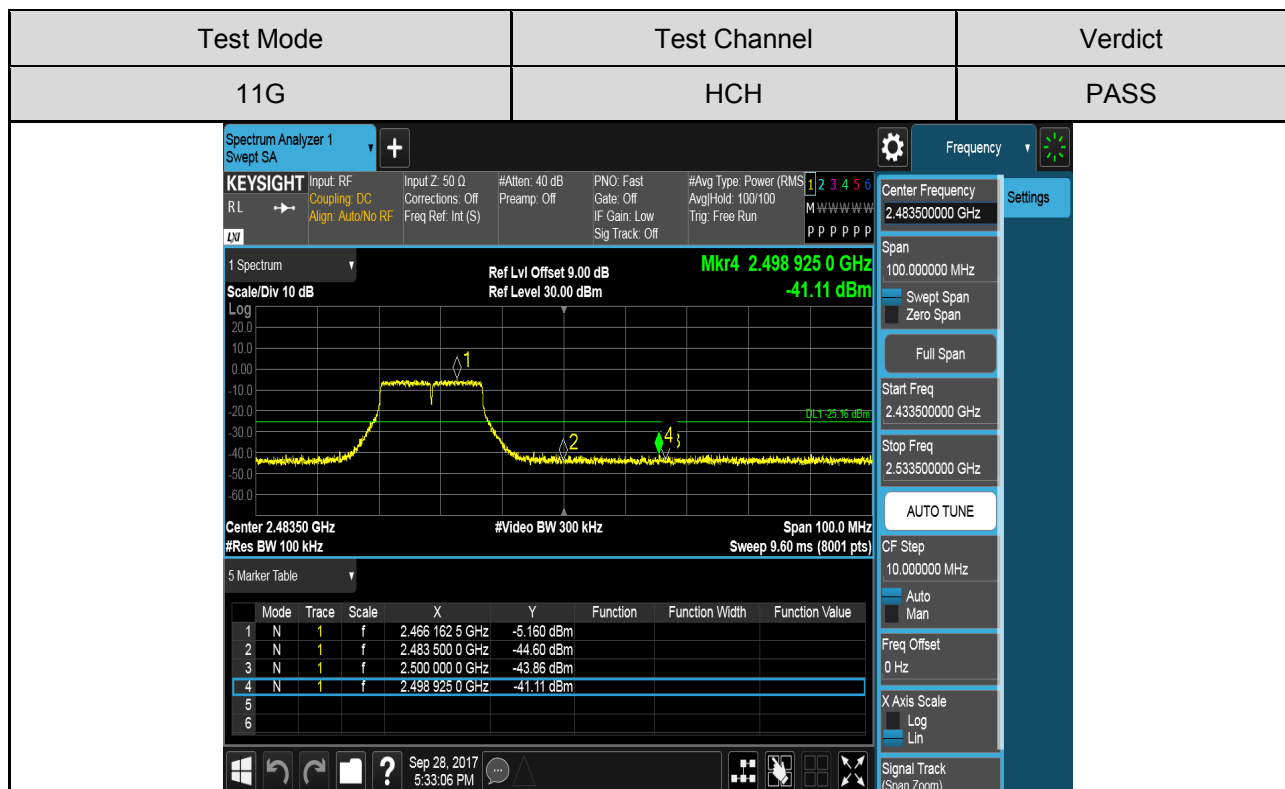
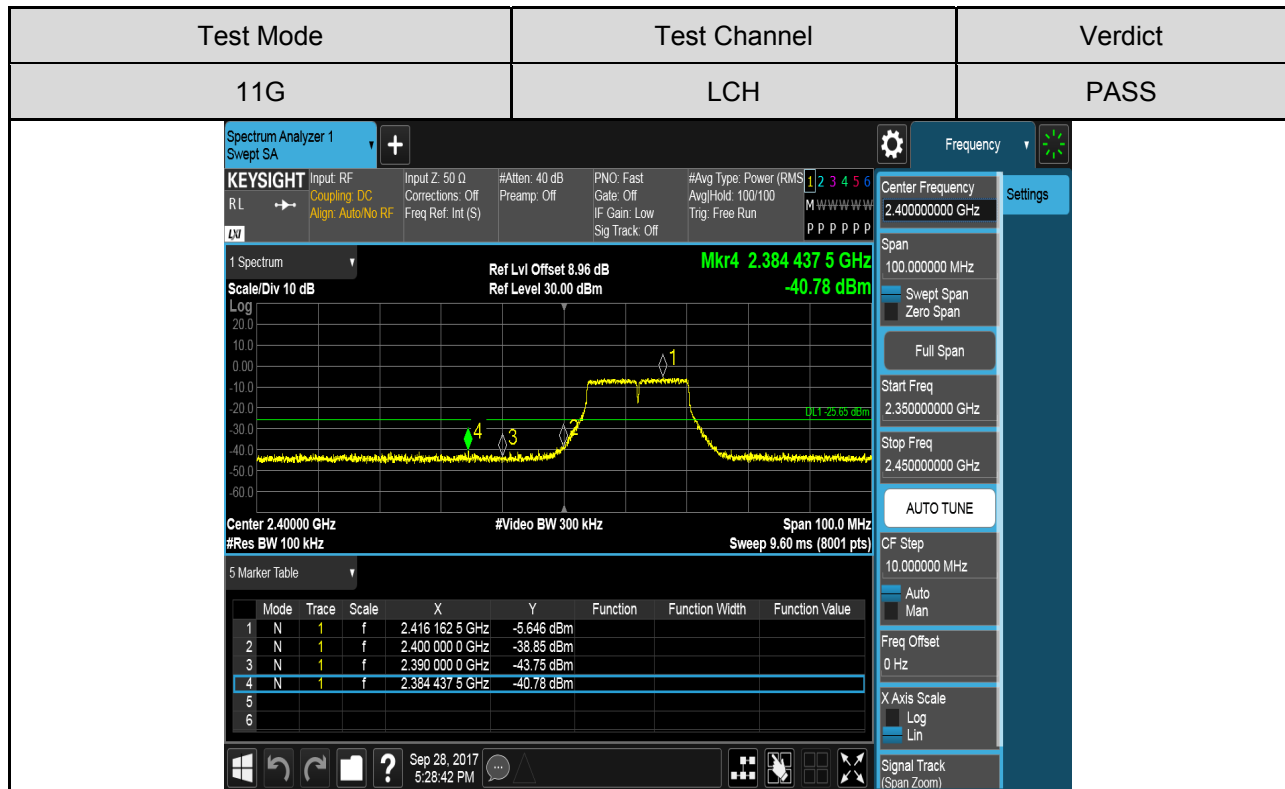
Part I :Conducted Bandedge

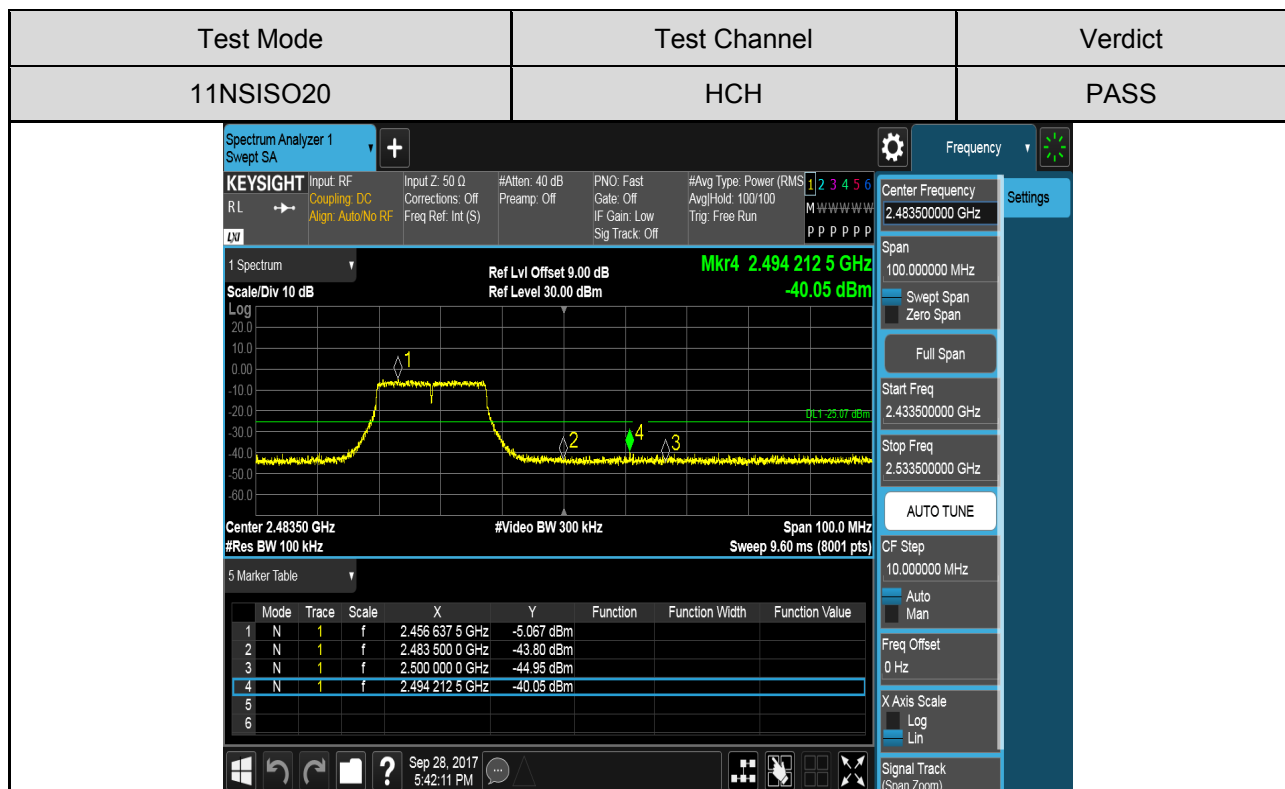
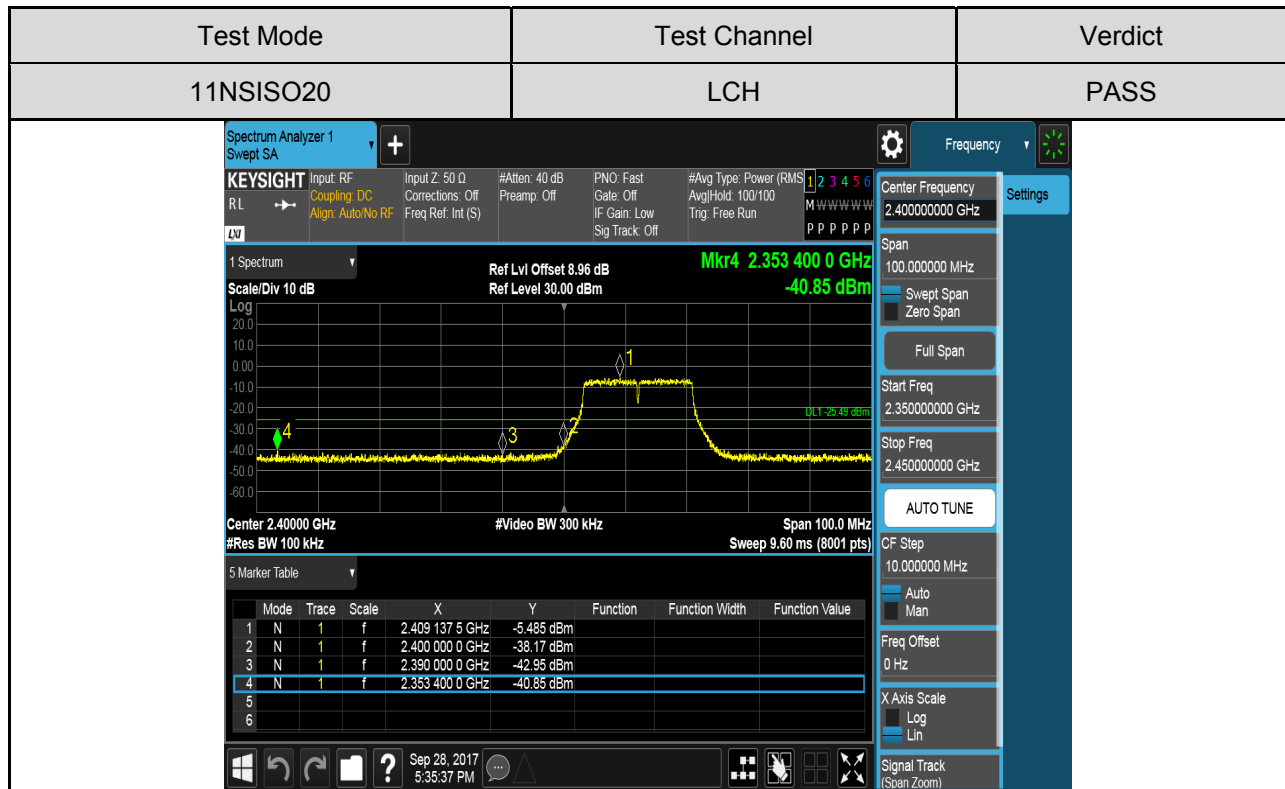
RESULTS TABLE

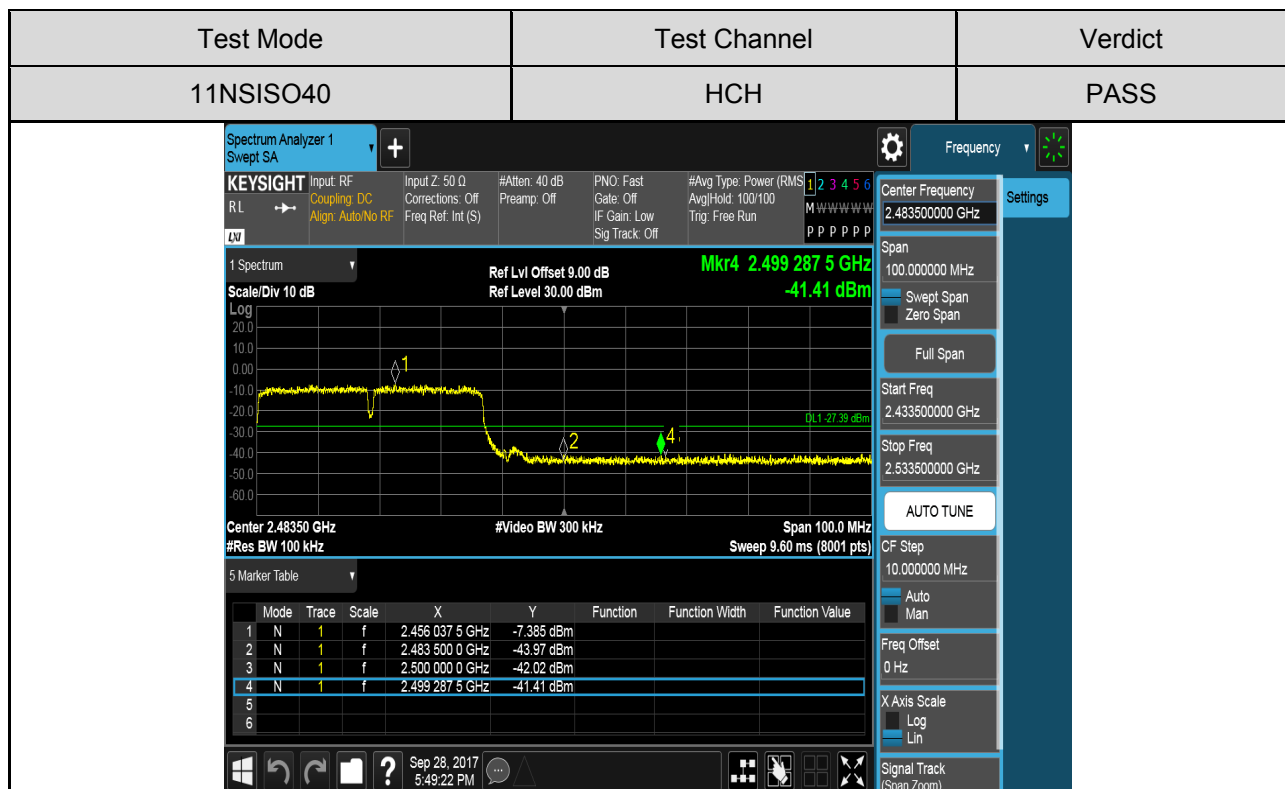
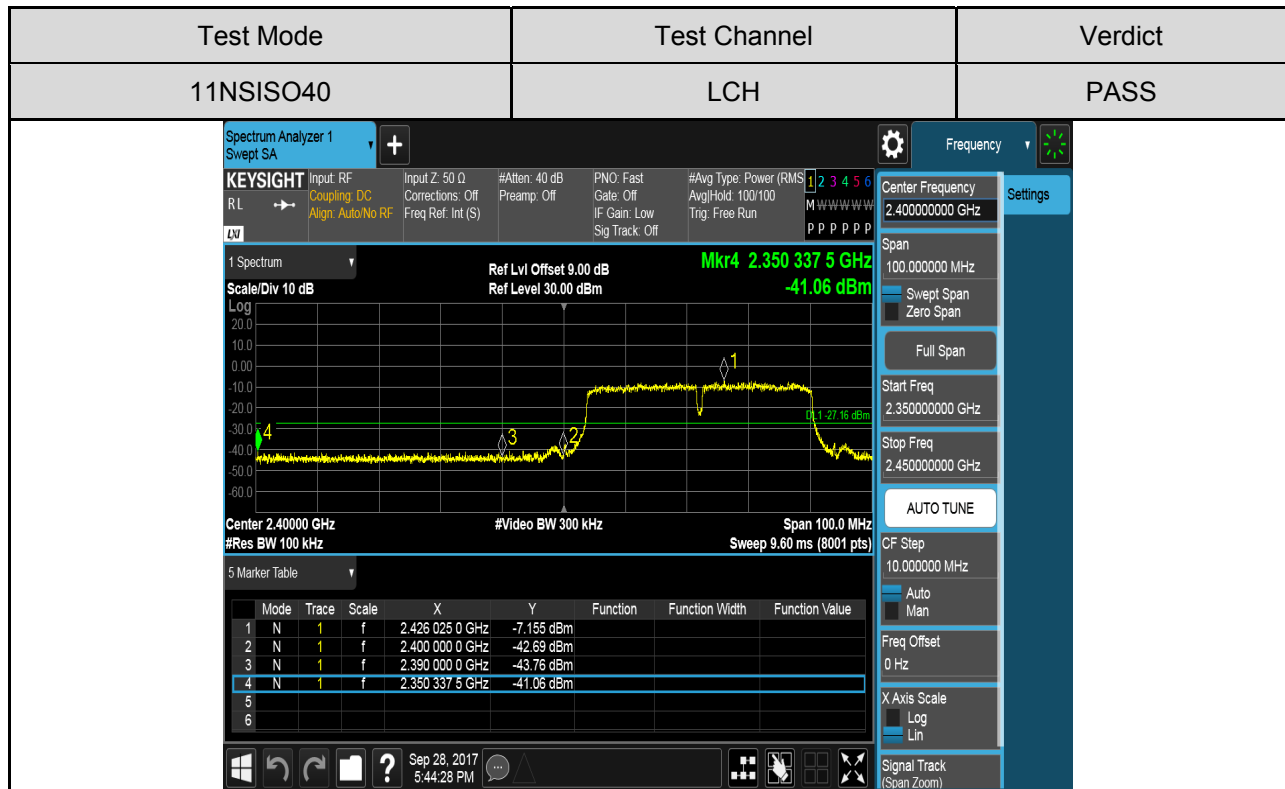
Test Mode	Test Channel	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	4.354	-38.807	-15.65	PASS
11B	HCH	4.968	-39.969	-15.03	PASS
11G	LCH	-5.646	-40.775	-25.65	PASS
11G	HCH	-5.160	-41.105	-25.16	PASS
11N20SISO	LCH	-5.485	-40.851	-25.49	PASS
11N20SISO	HCH	-5.067	-40.048	-25.07	PASS
11N40SISO	LCH	-7.155	-41.061	-27.16	PASS
11N40SISO	HCH	-7.385	-41.407	-27.39	PASS

TEST GRAPHS









Part II :Conducted Emission

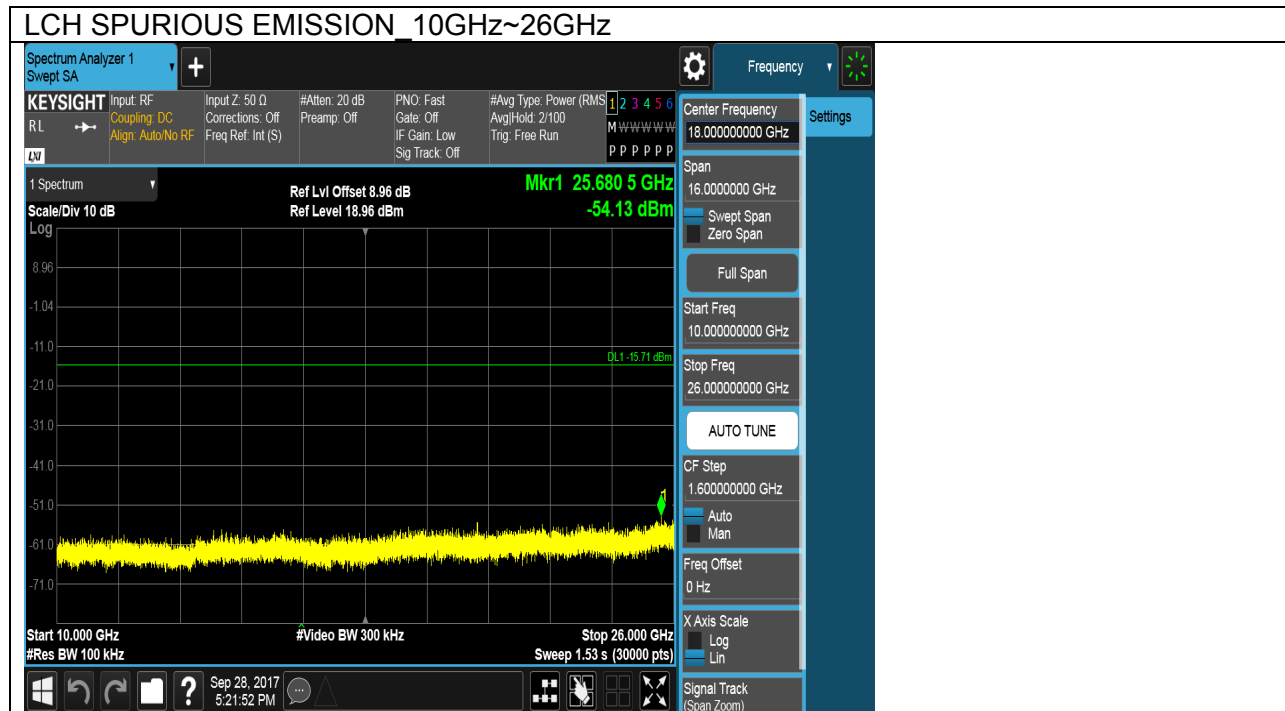
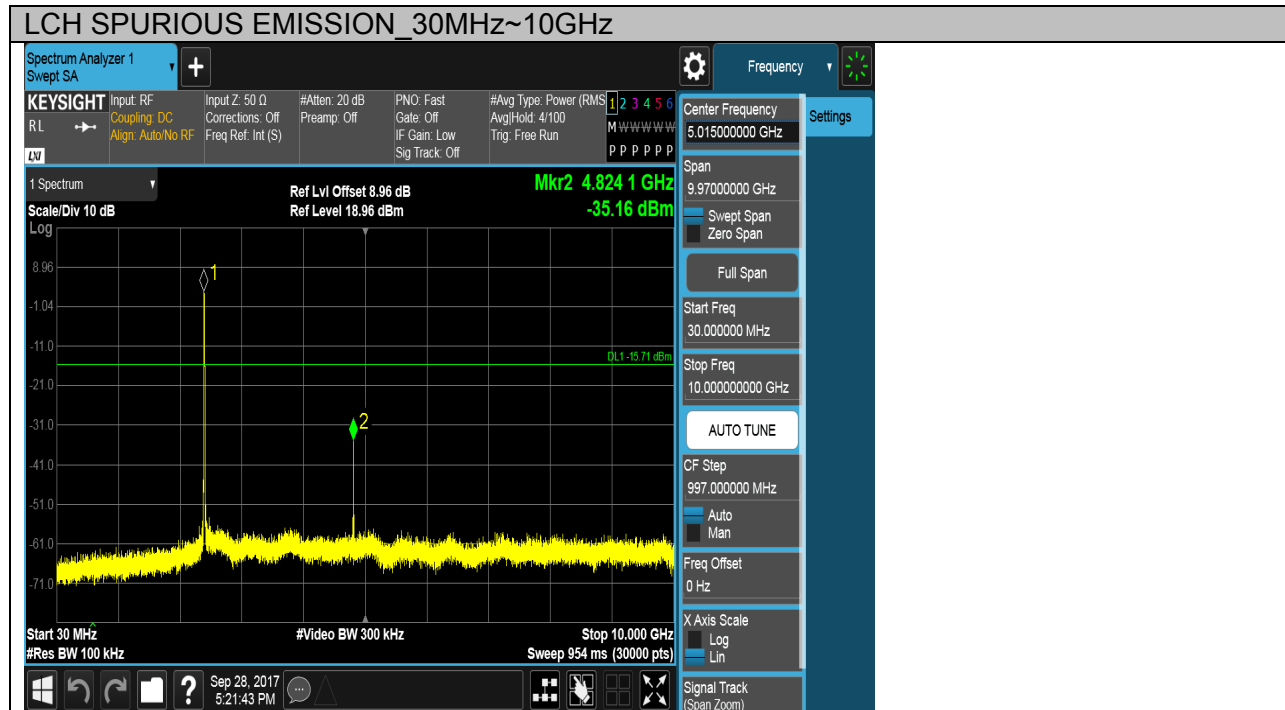
Test Result Table

Test Mode	Channel	Pref(dBm)	Puw(dBm)	Verdict
11B	LCH	4.29	<Limit	PASS
	MCH	4.88	<Limit	PASS
	HCH	4.891	<Limit	PASS
11G	LCH	-5.684	<Limit	PASS
	MCH	-5.162	<Limit	PASS
	HCH	-5.156	<Limit	PASS
11NSISO20	LCH	-5.375	<Limit	PASS
	MCH	-4.831	<Limit	PASS
	HCH	-4.564	<Limit	PASS
11NSISO40	LCH	-7.036	<Limit	PASS
	MCH	-7.257	<Limit	PASS
	HCH	-7.262	<Limit	PASS

Test Mode	Channel	Verdict
11B	LCH	PASS

Pref test Plot

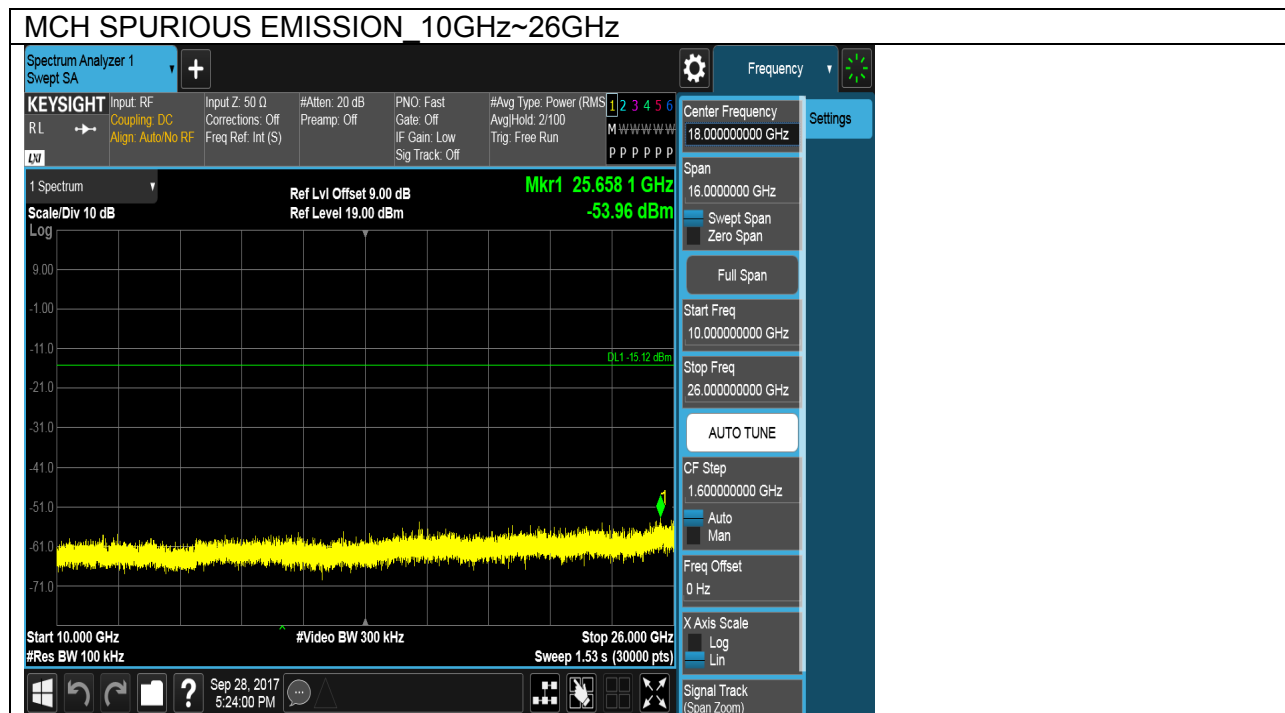
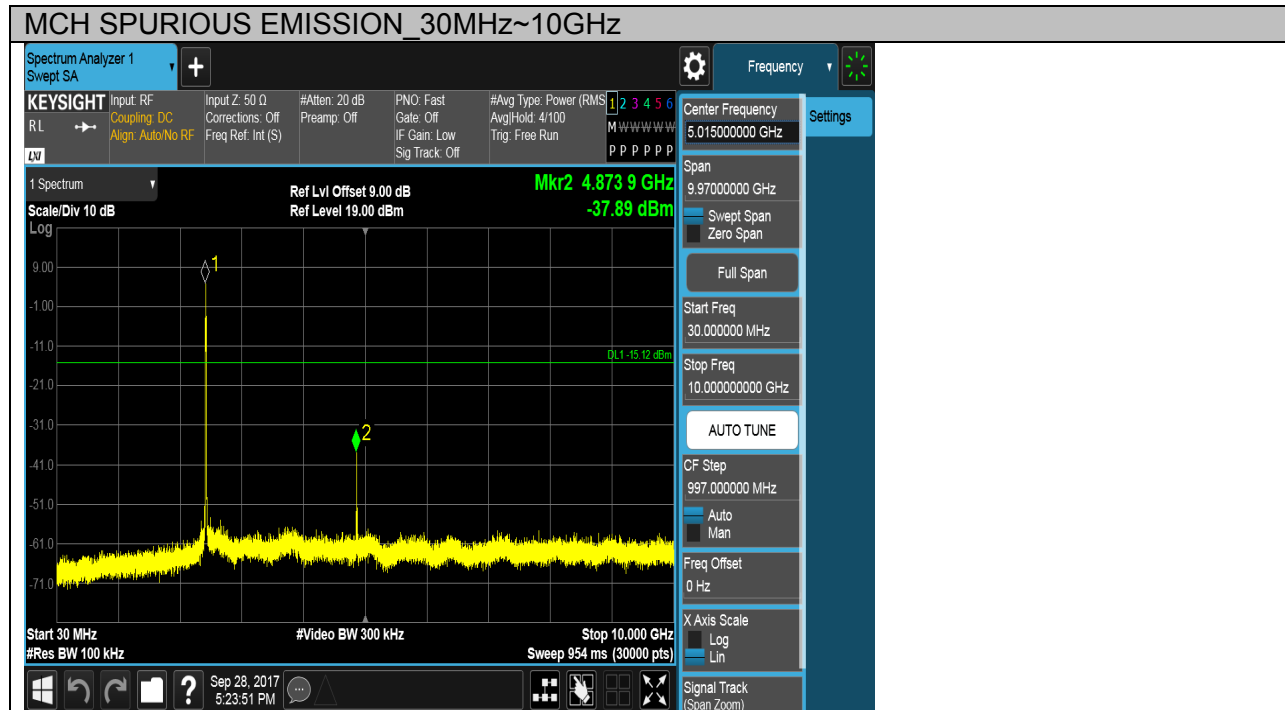




Test Mode	Channel	Verdict
11B	MCH	PASS

Pref test Plot

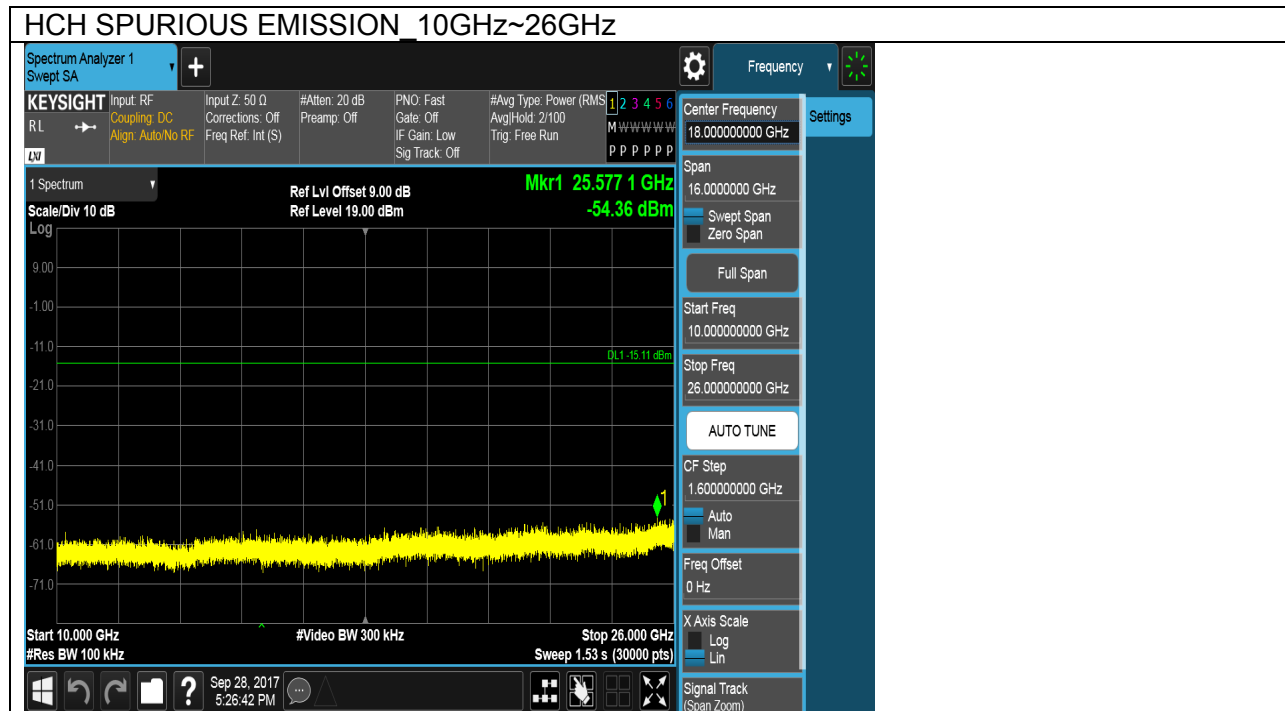
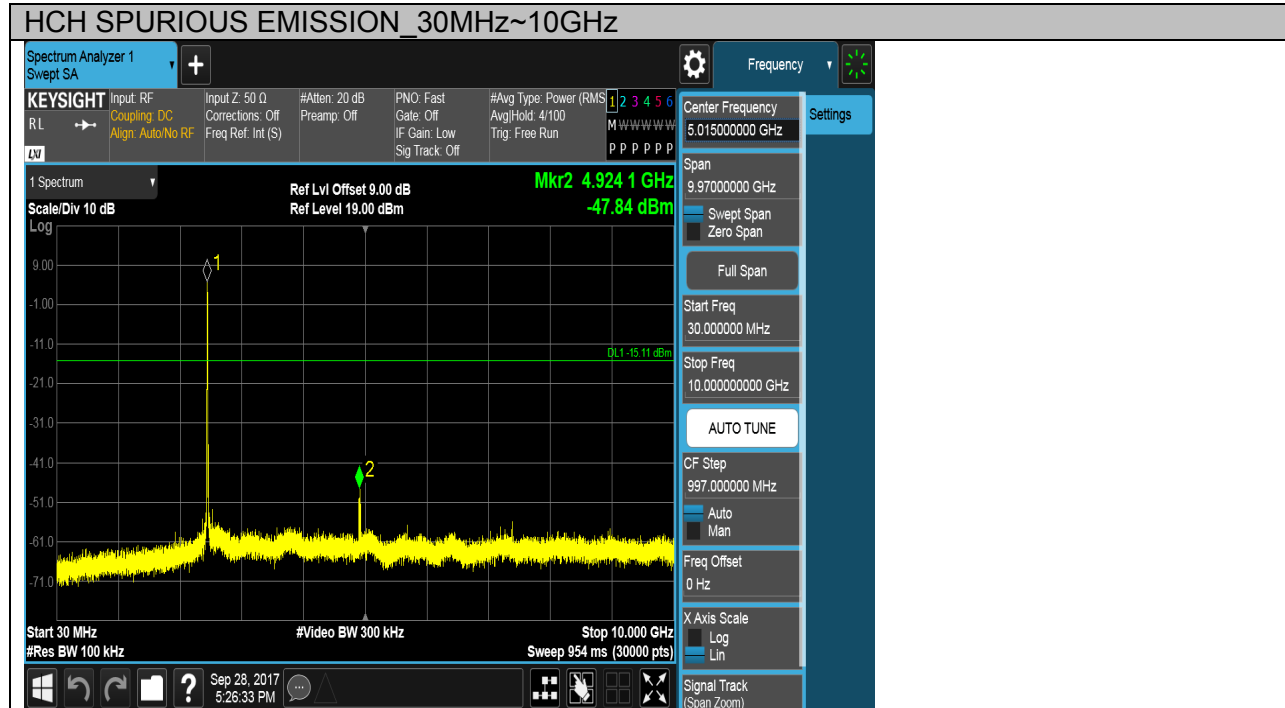




Test Mode	Channel	Verdict
11B	HCH	PASS

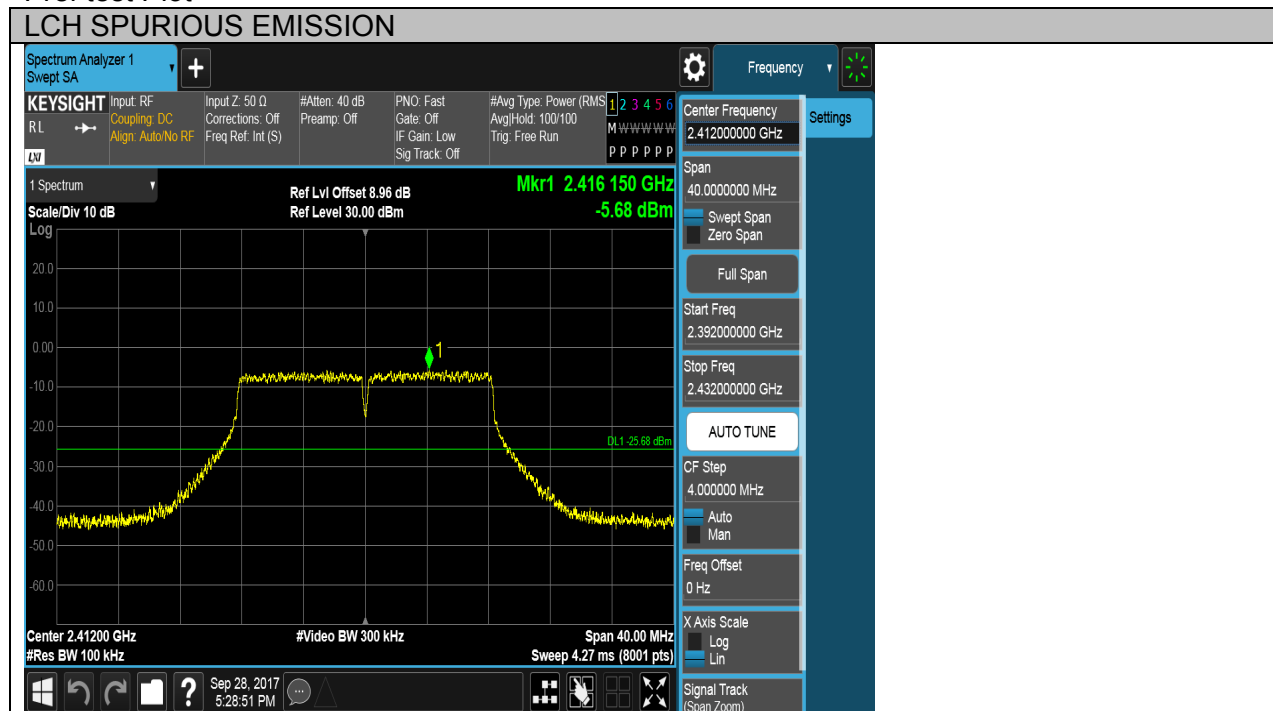
Pref test Plot

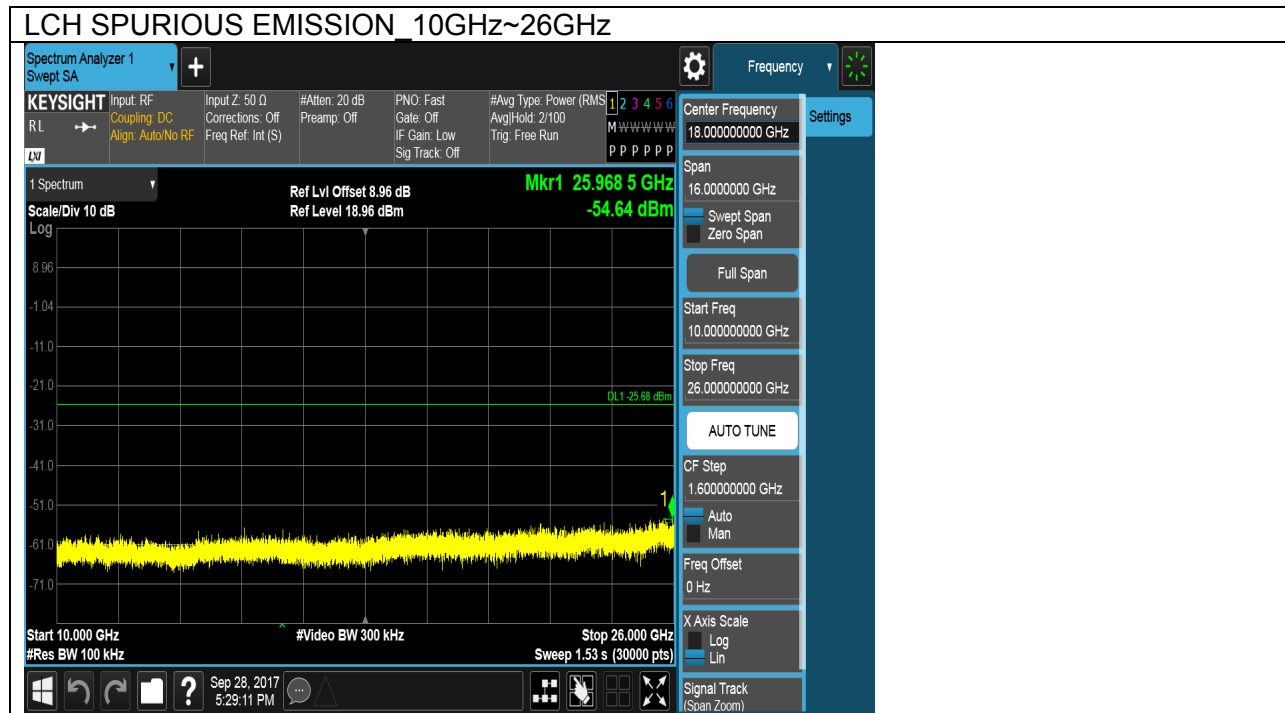
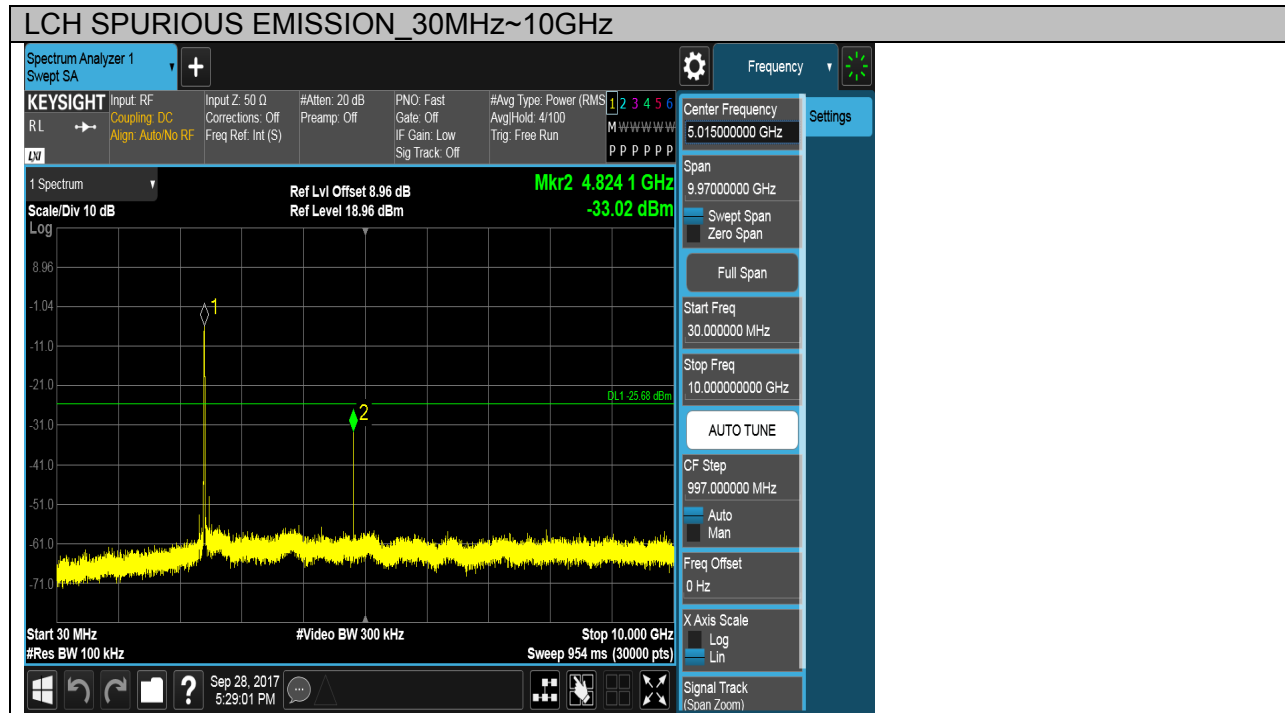




Test Mode	Channel	Verdict
11G	LCH	PASS

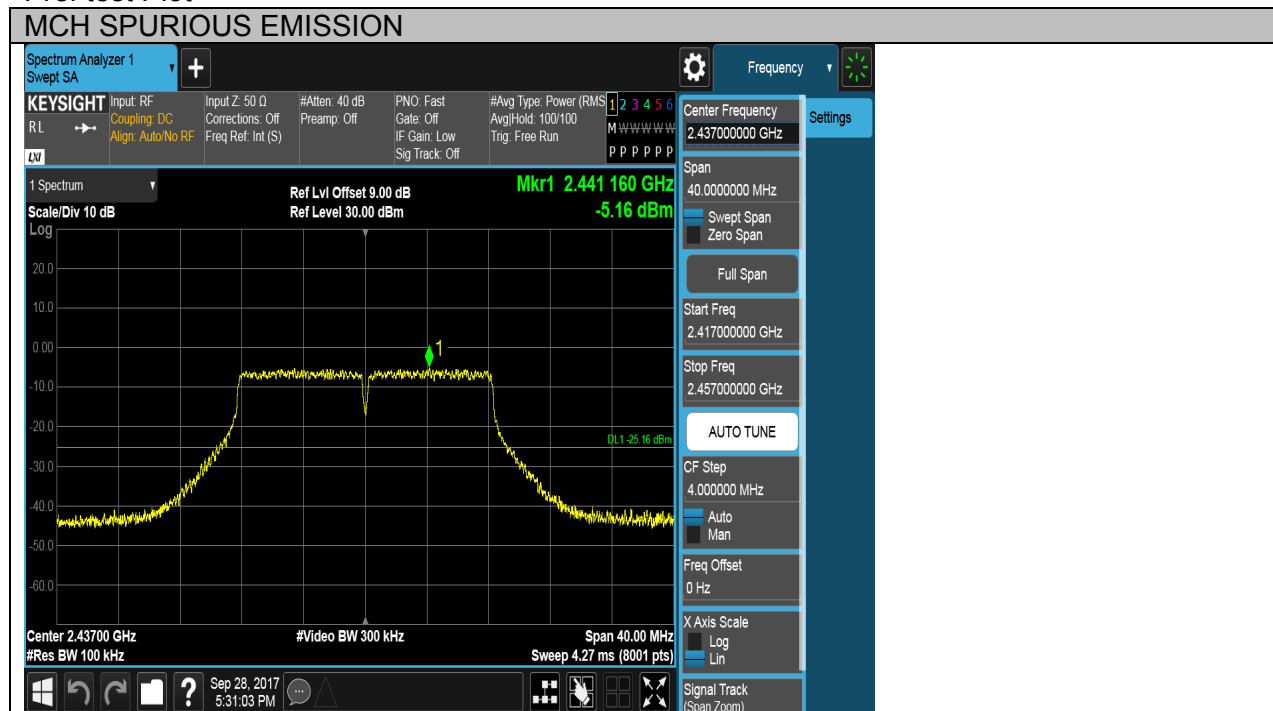
Pref test Plot

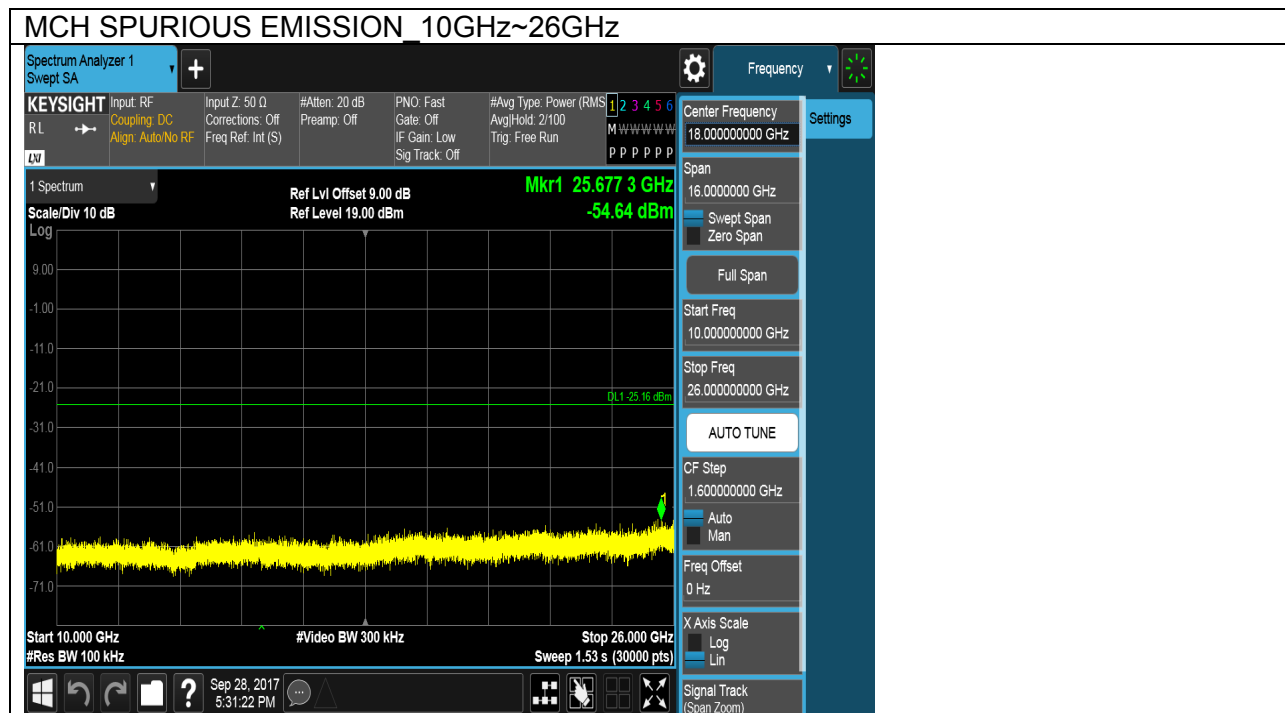
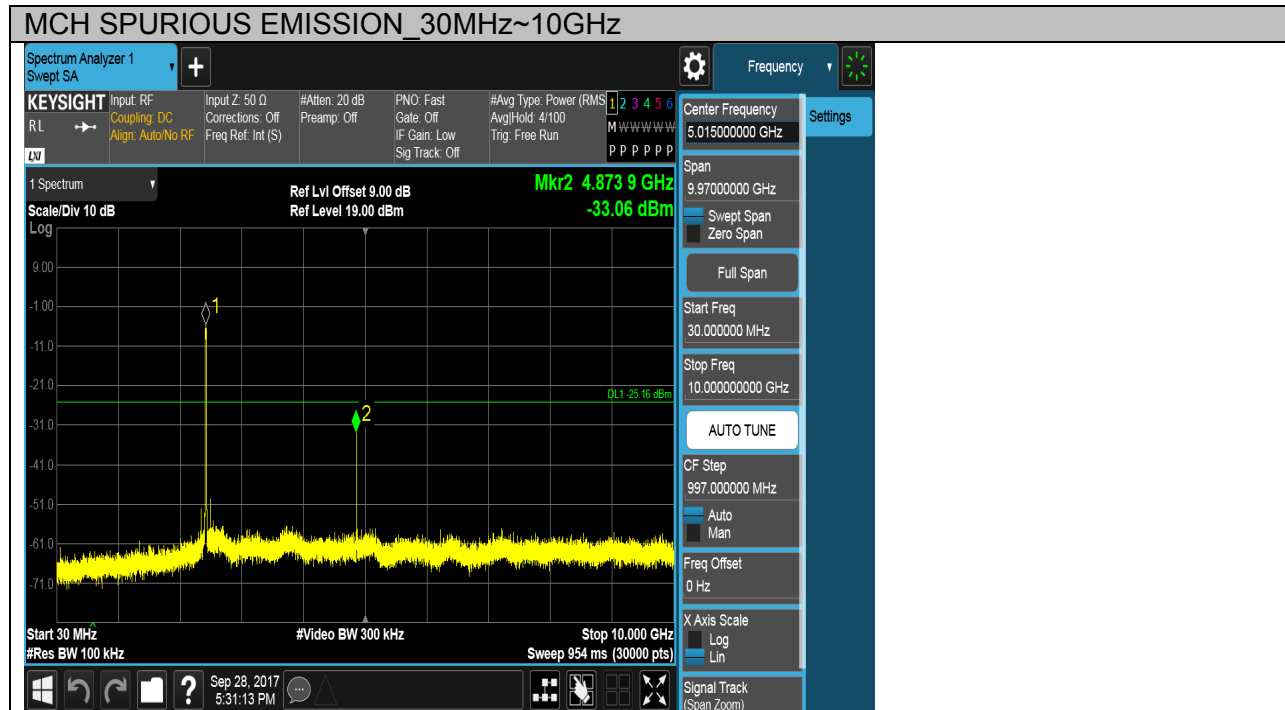




Test Mode	Channel	Verdict
11G	MCH	PASS

Pref test Plot

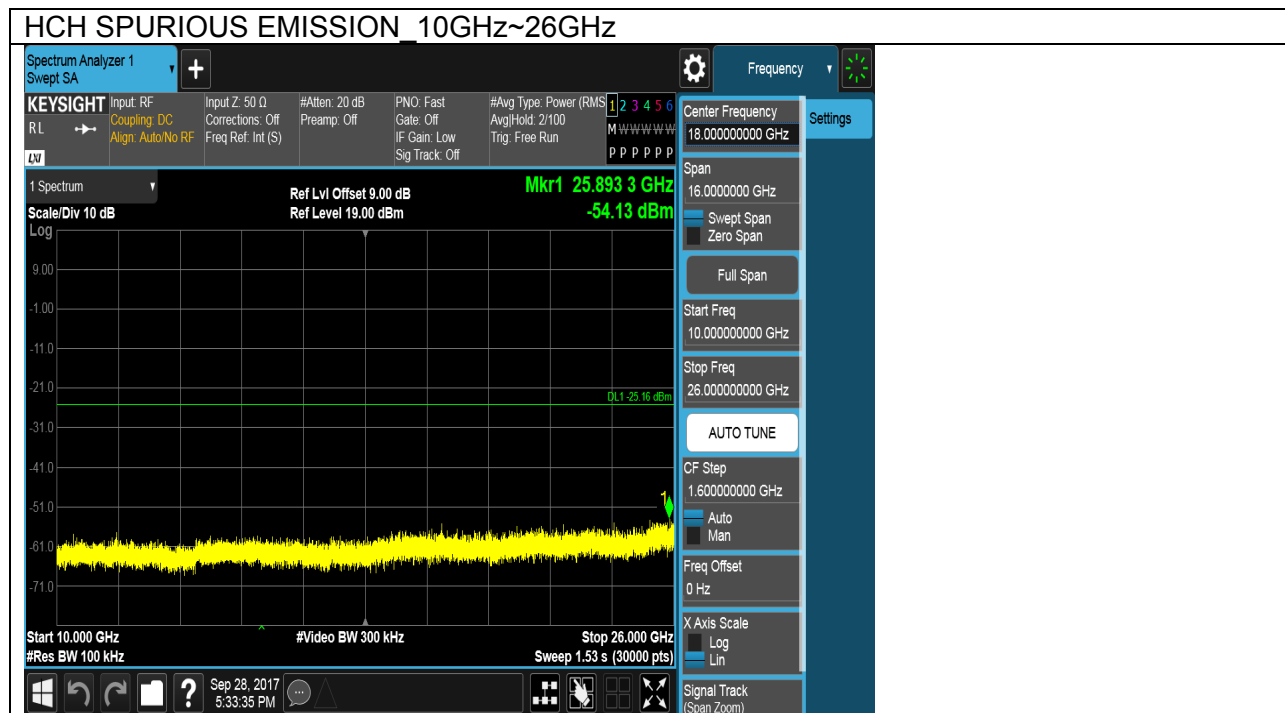
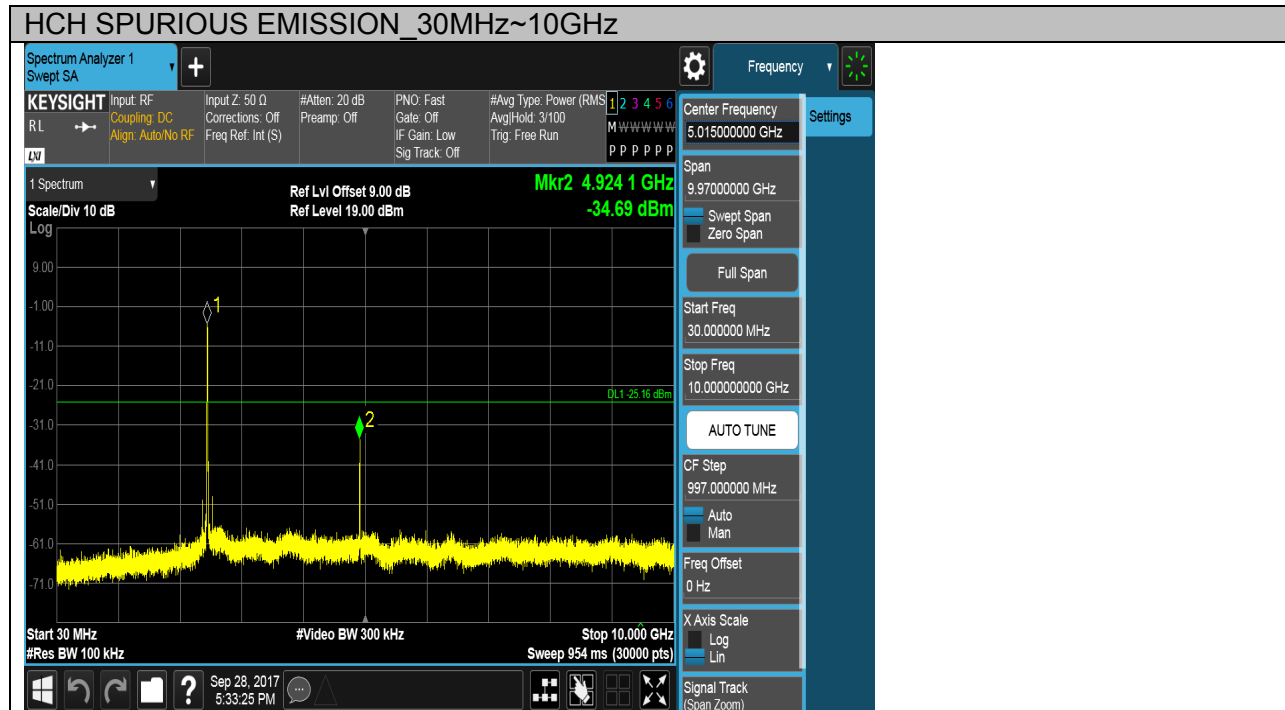




Test Mode	Channel	Verdict
11G	HCH	PASS

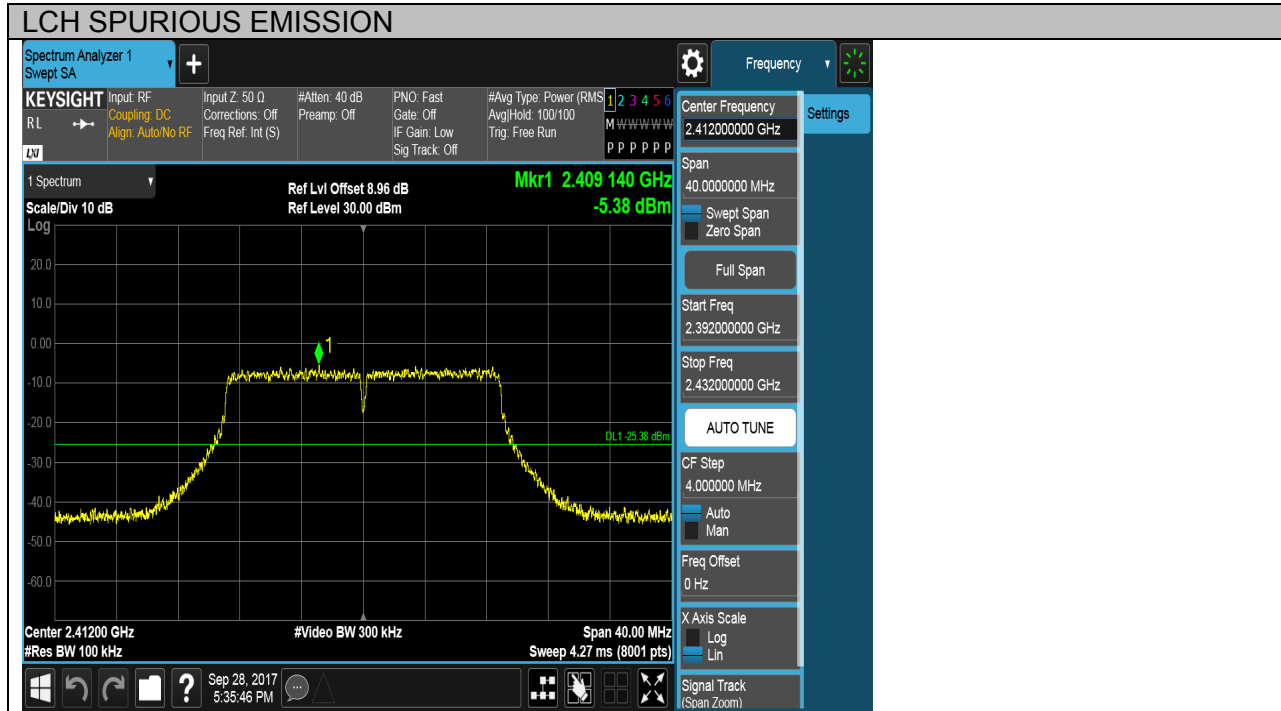
Pref test Plot

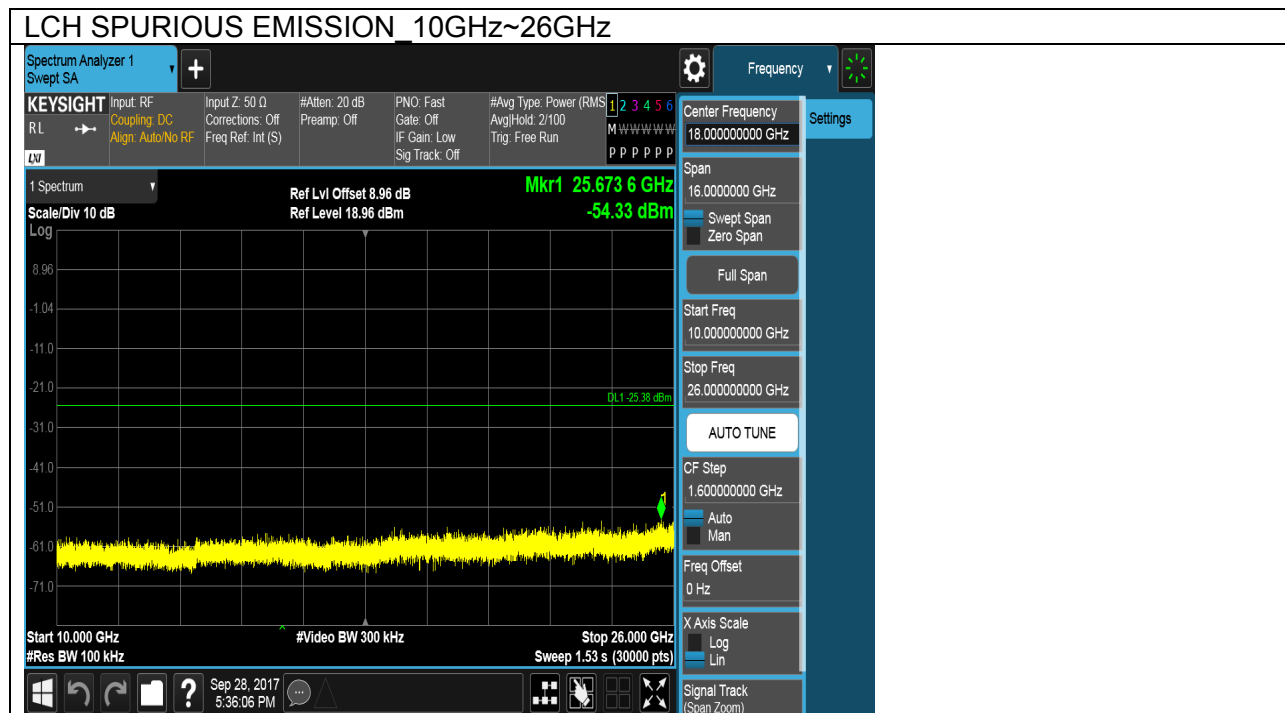
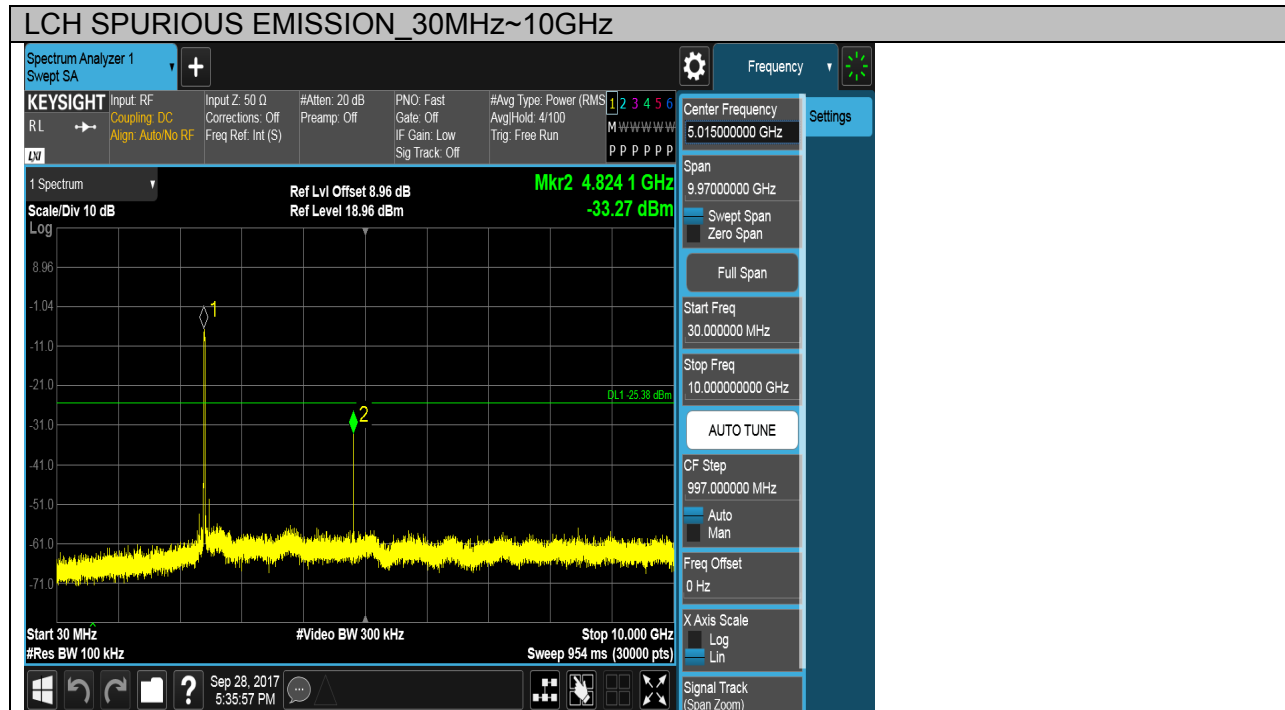




Test Mode	Channel	Verdict
11NSISO20	LCH	PASS

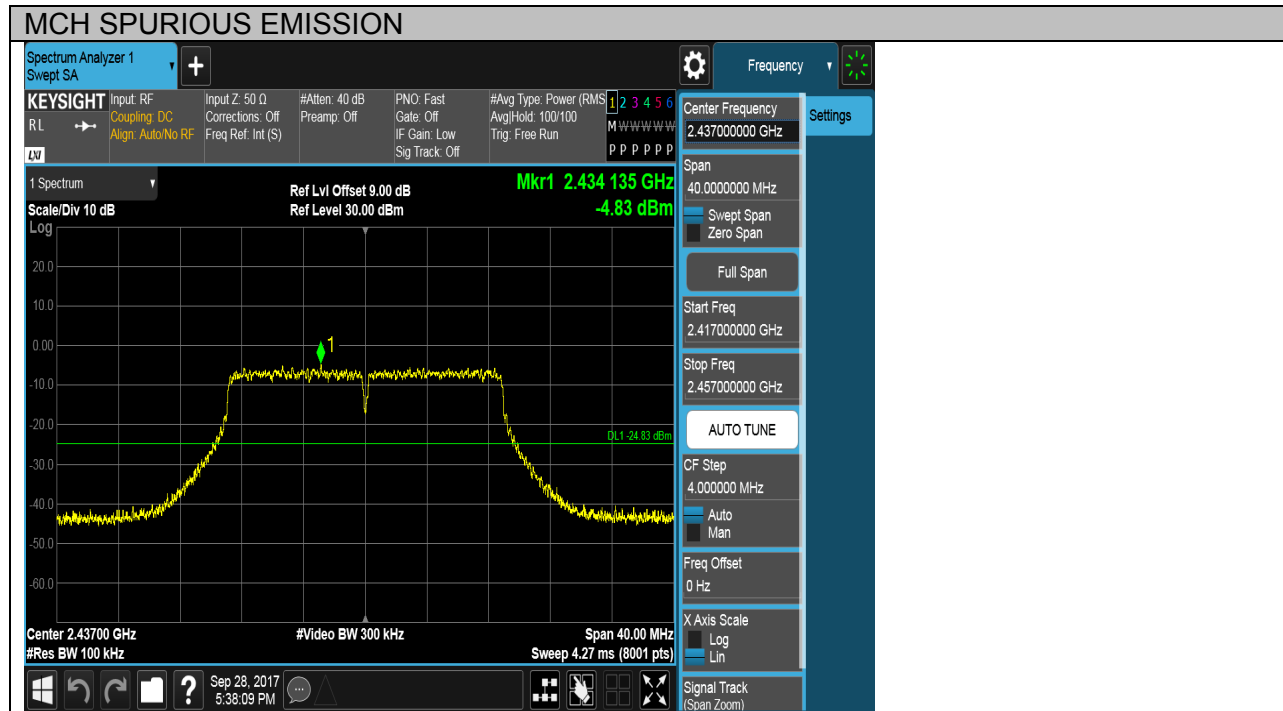
Pref test Plot

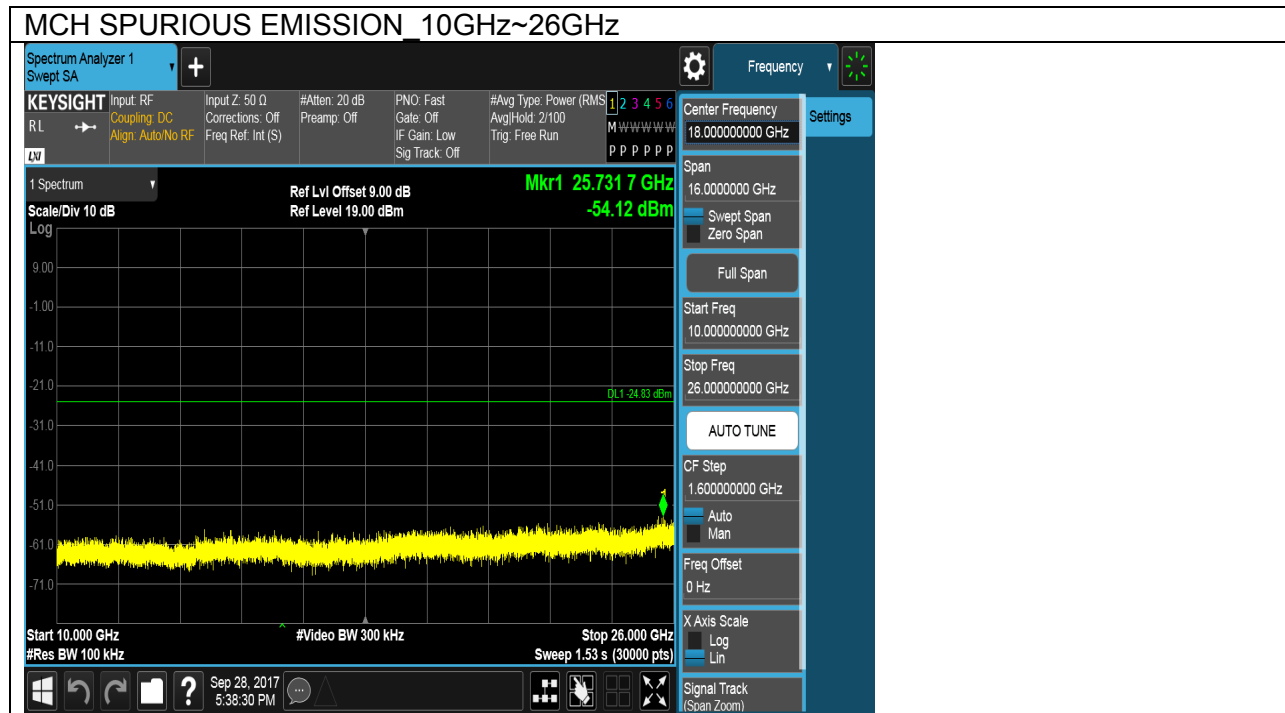
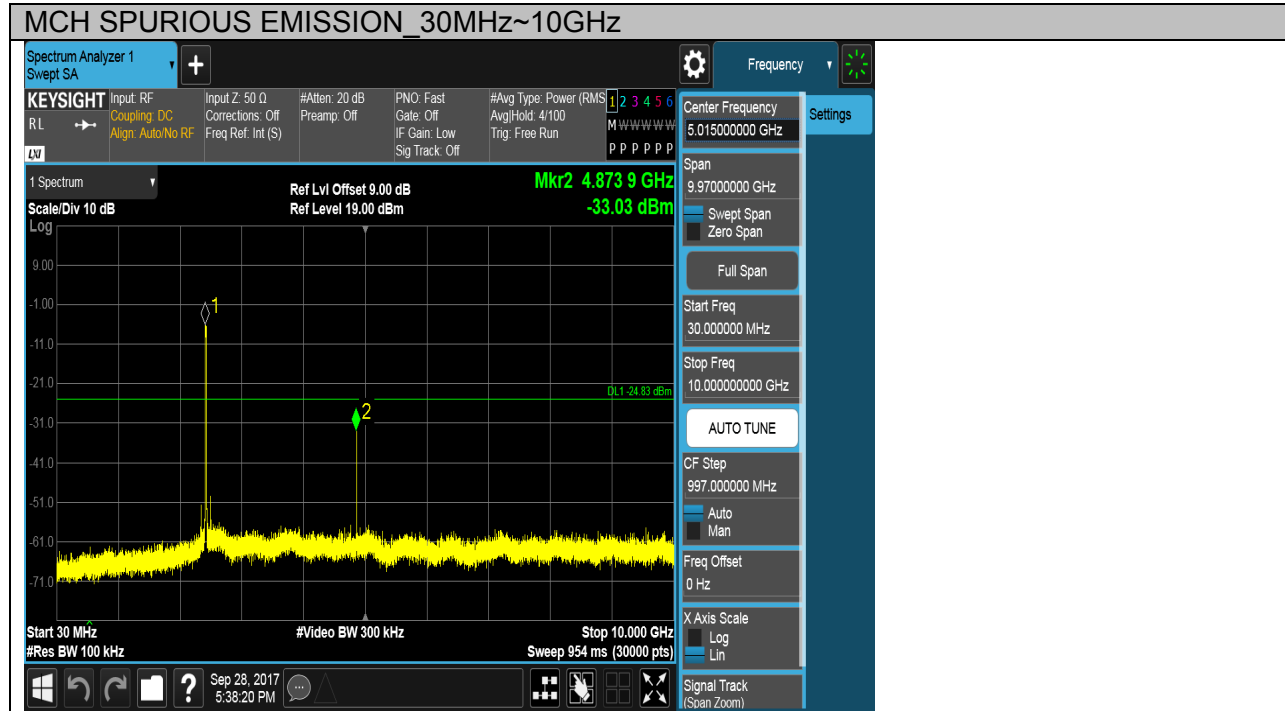




Test Mode	Channel	Verdict
11NSISO20	MCH	PASS

Pref test Plot

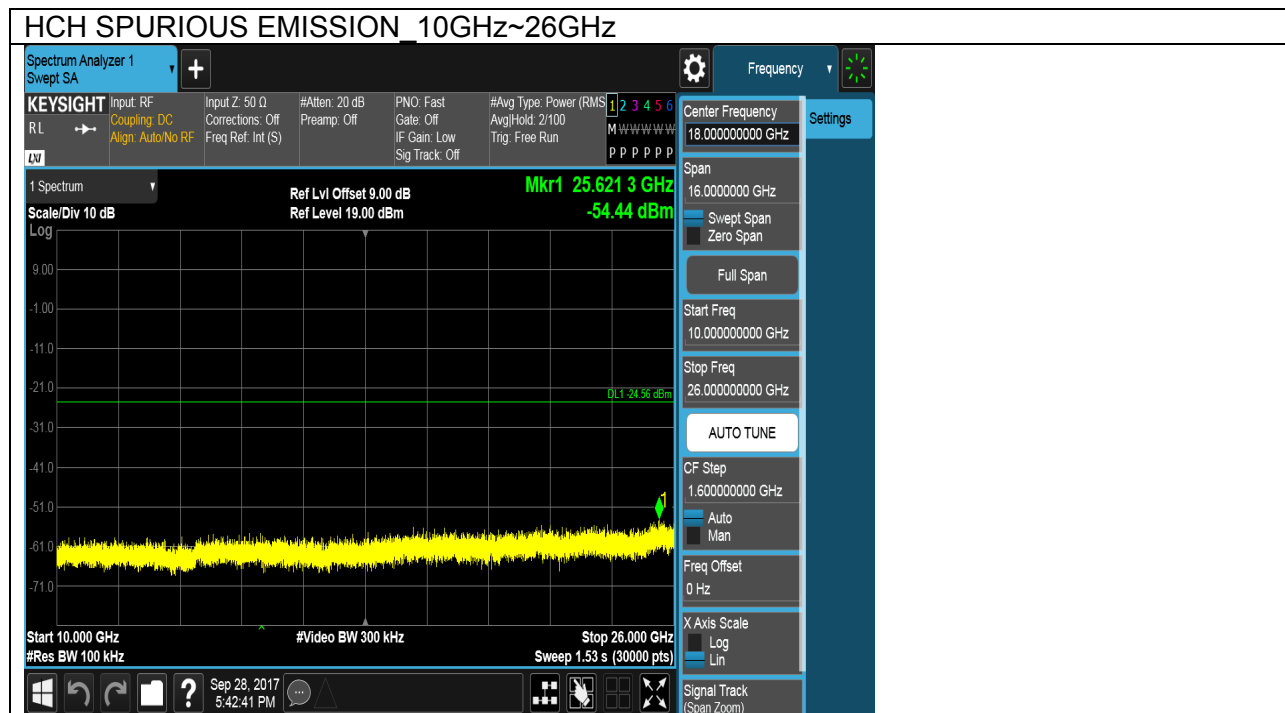
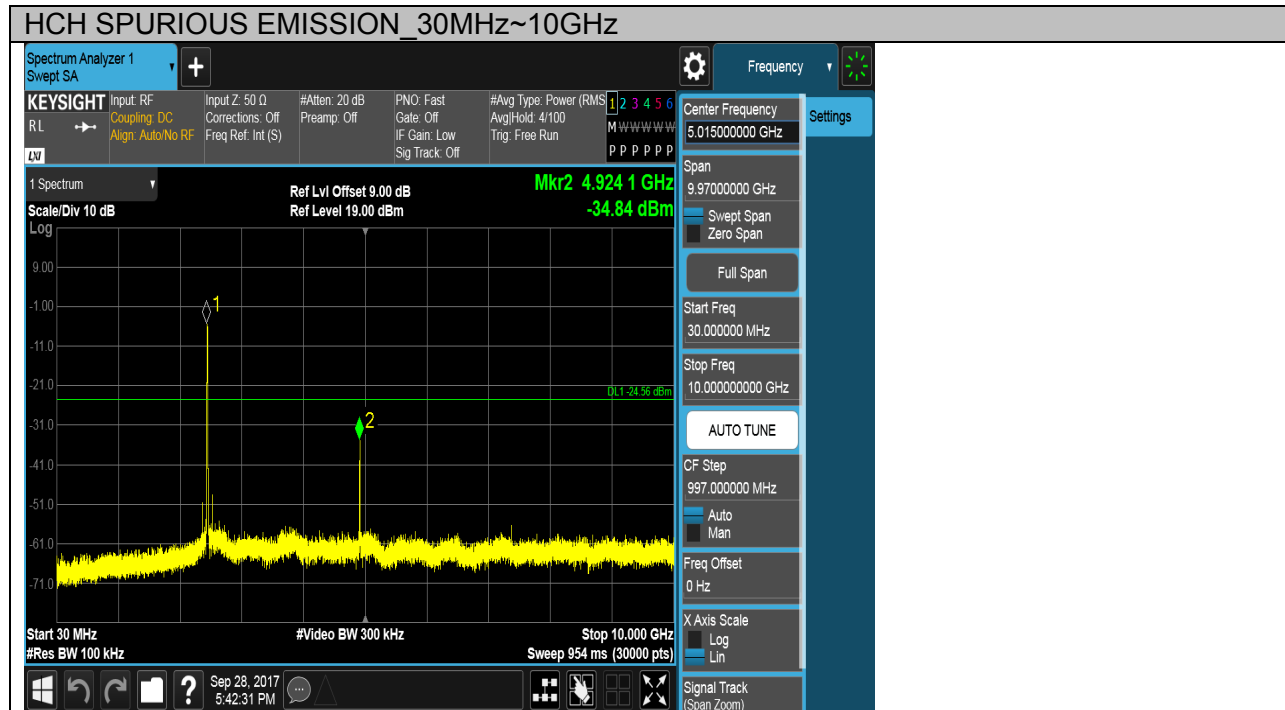




Test Mode	Channel	Verdict
11NSISO20	HCH	PASS

Pref test Plot

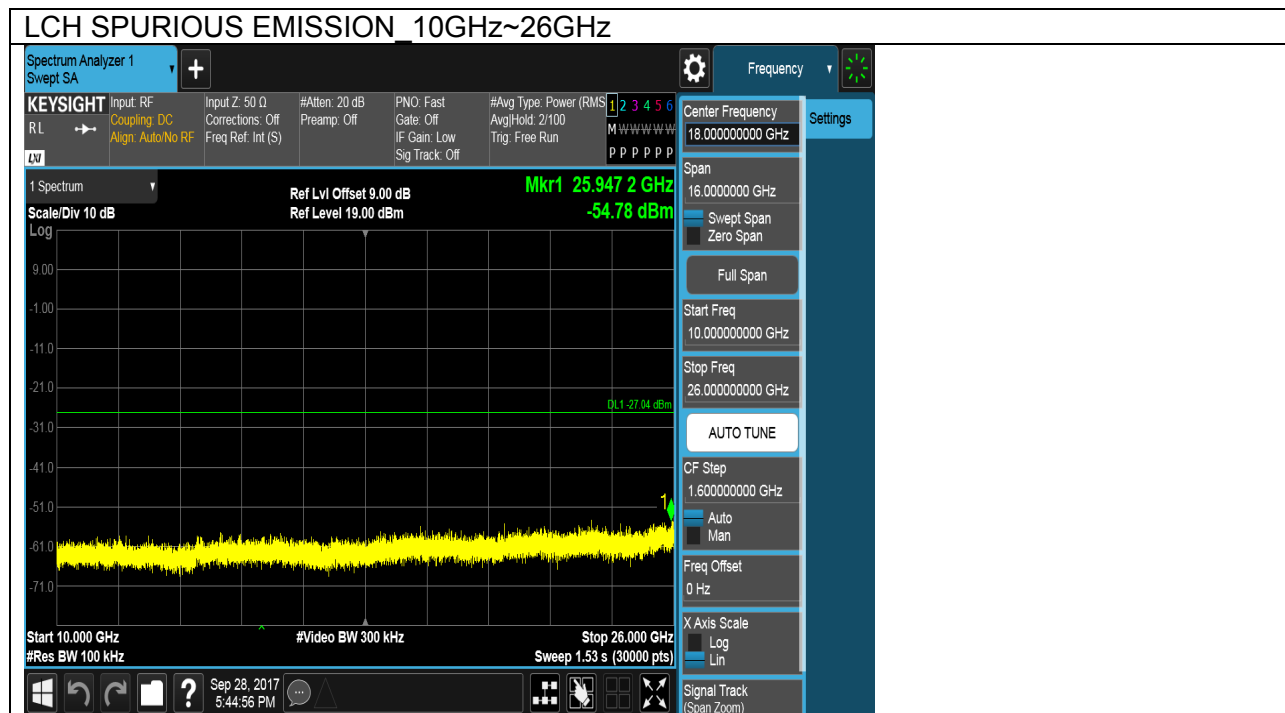
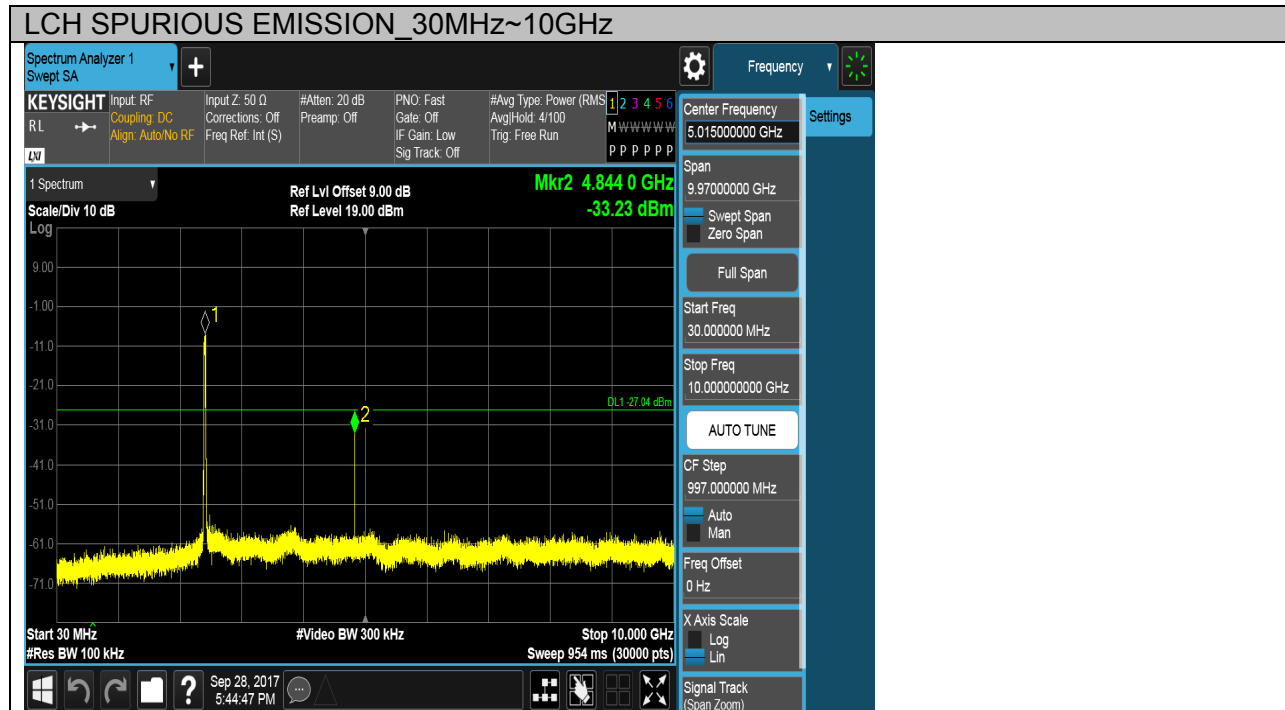




Test Mode	Channel	Verdict
11NSISO40	LCH	PASS

Pref test Plot

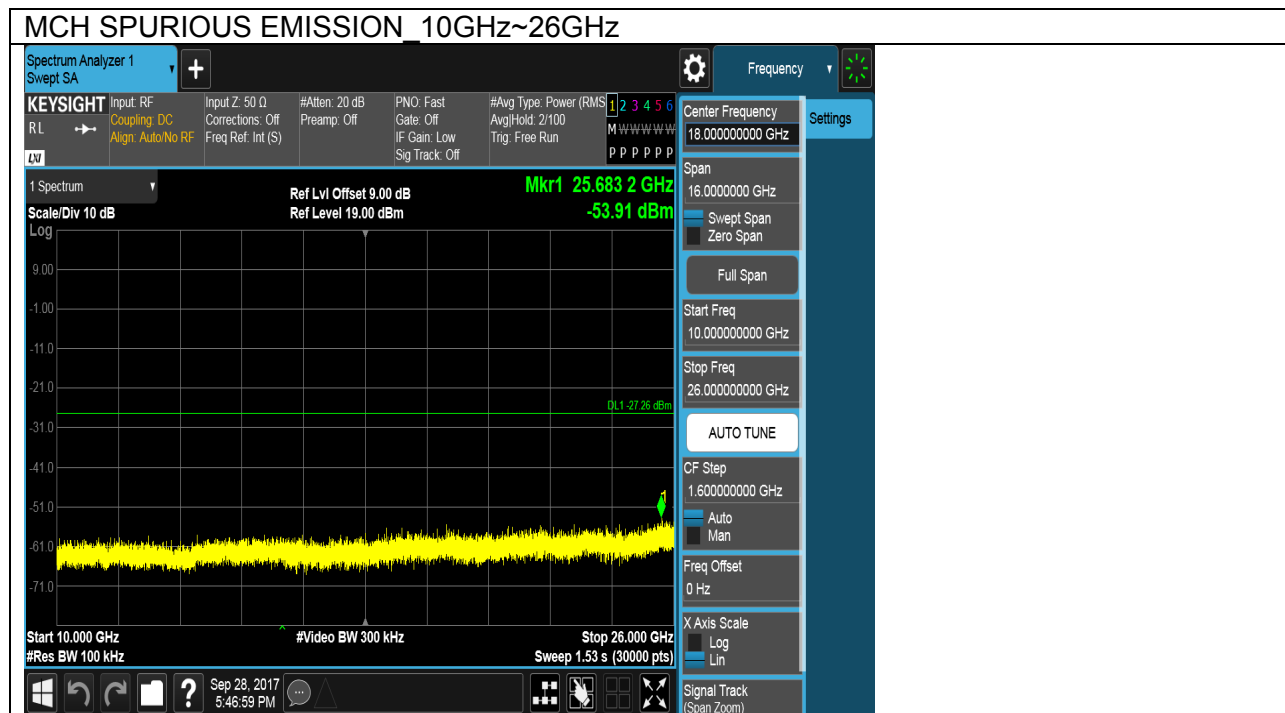
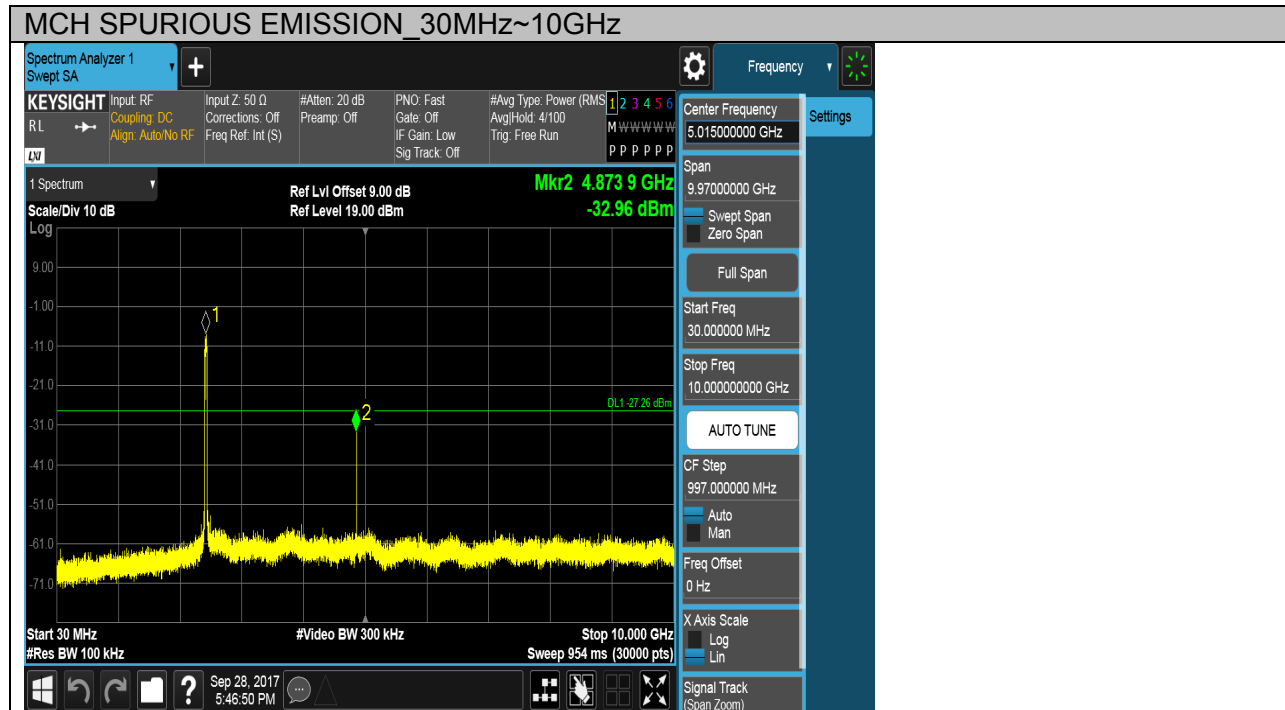




Test Mode	Channel	Verdict
11NSISO40	MCH	PASS

Pref test Plot





Test Mode	Channel	Verdict
11NSISO40	HCH	PASS

Pref test Plot



