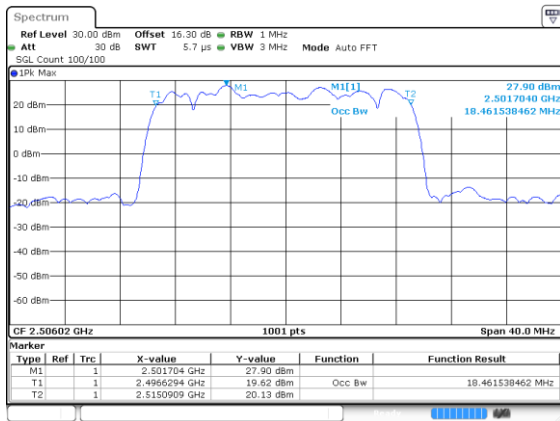




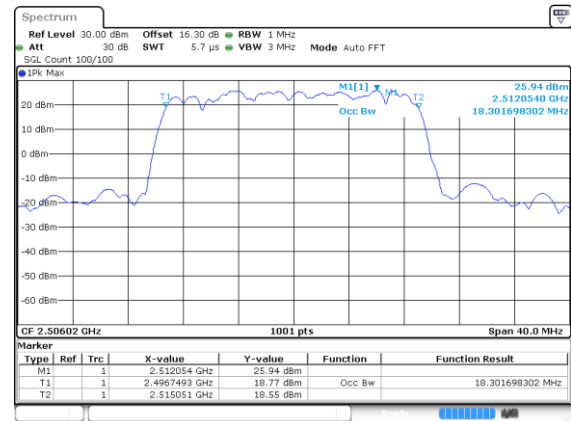
FR1 n41

20MHz

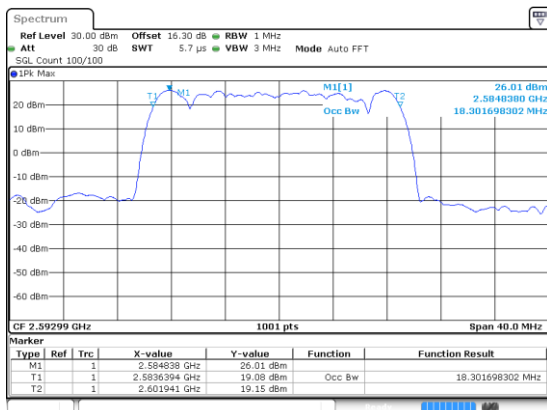
Lowest Channel / QPSK



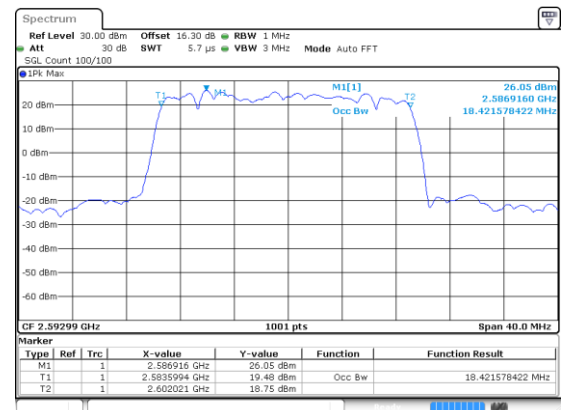
Lowest Channel / 16QAM



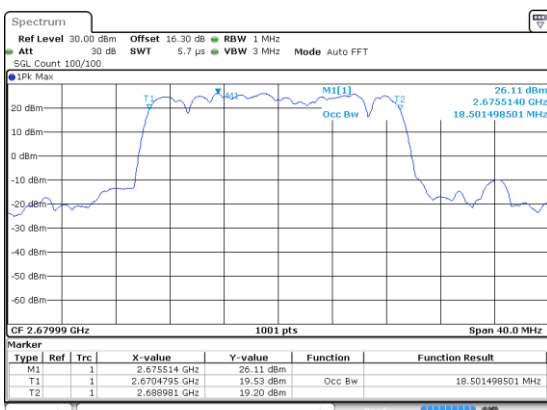
Middle Channel / QPSK



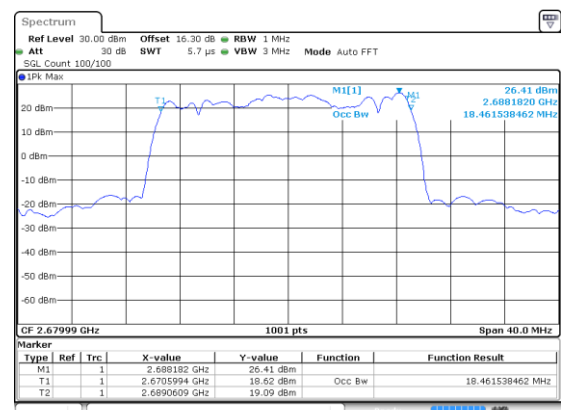
Middle Channel / 16Q



Highest Channel / QPSK



Highest Channel / 16Q

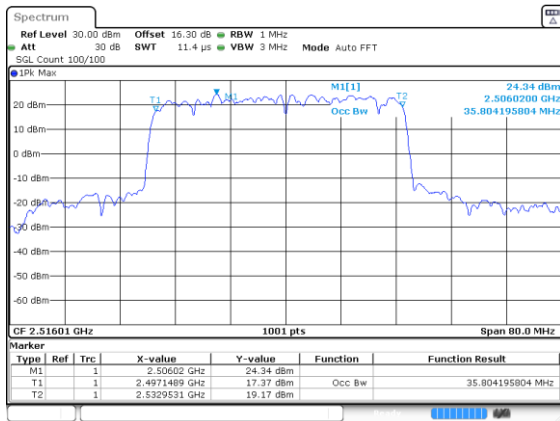




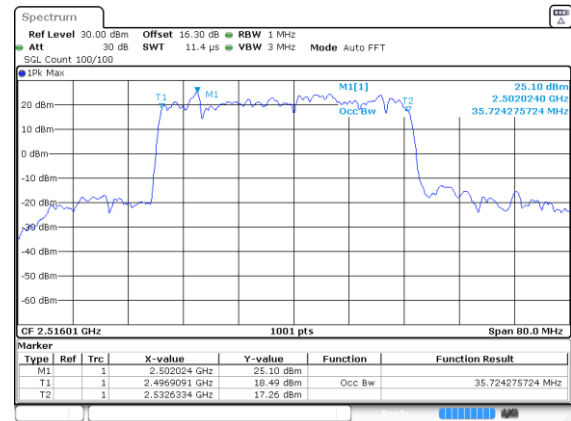
FR1 n41

40MHz

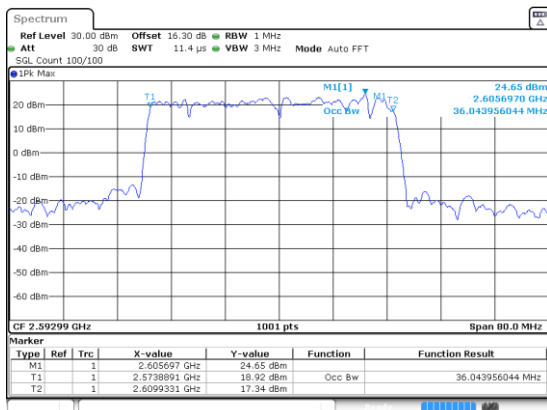
Lowest Channel / QPSK



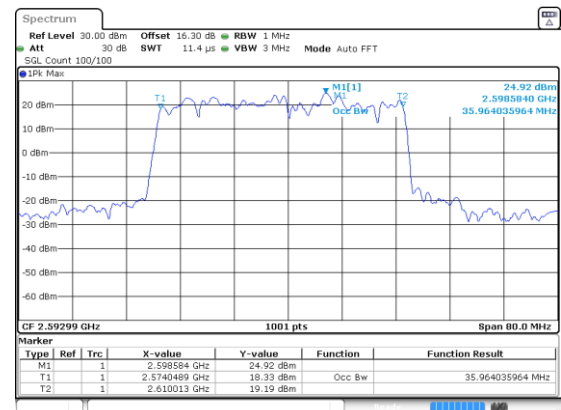
Lowest Channel / 16QAM



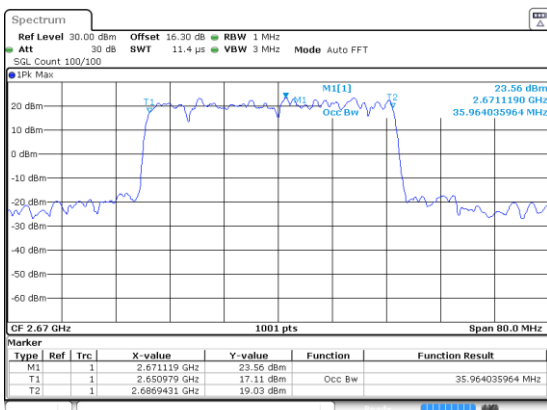
Middle Channel / QPSK



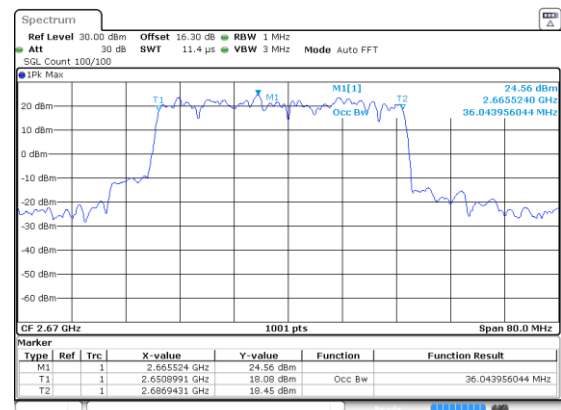
Middle Channel / 16Q



Highest Channel / QPSK



Highest Channel / 16Q

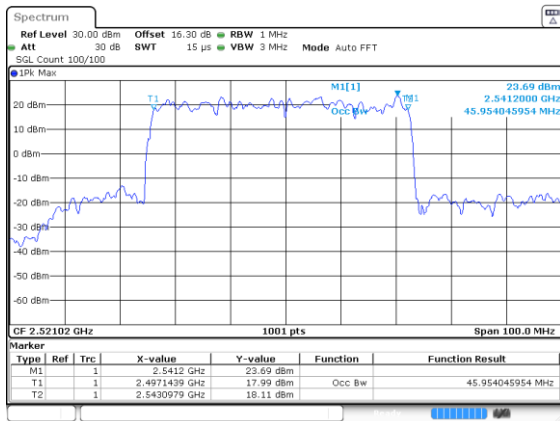




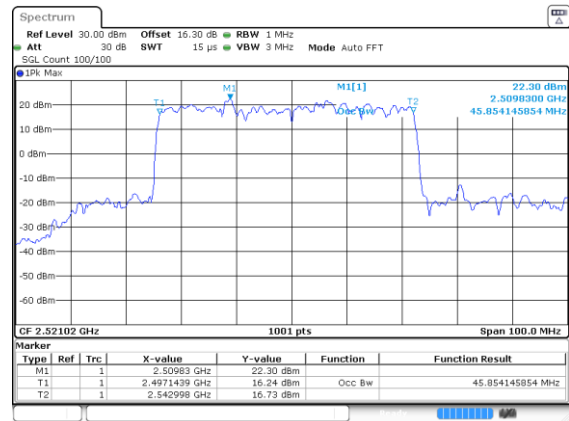
FR1 n41

50MHz

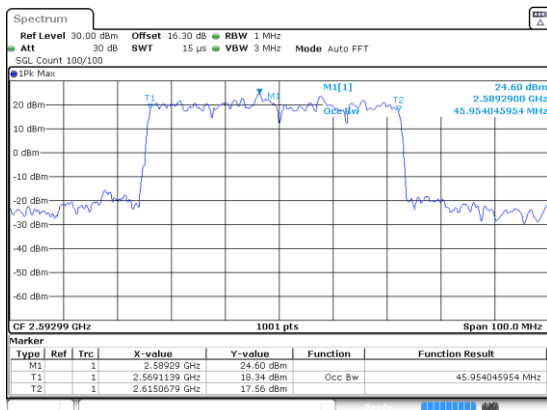
Lowest Channel / QPSK



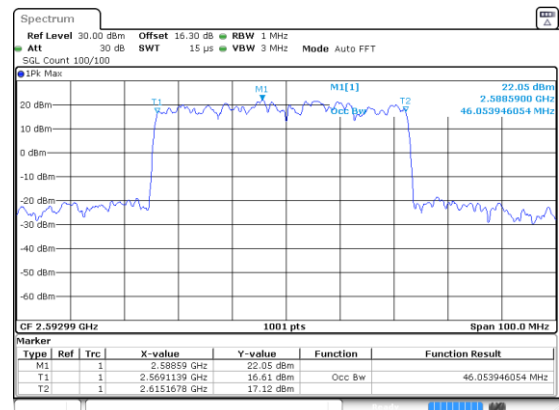
Lowest Channel / 16QAM



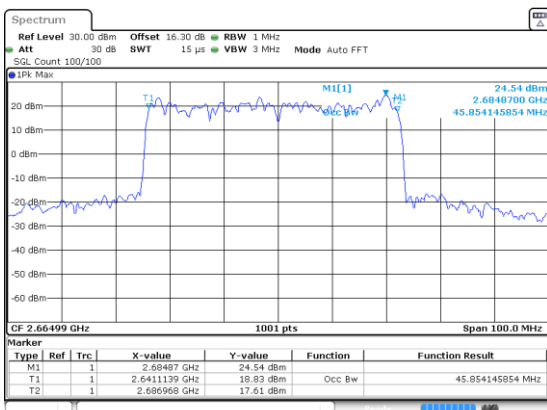
Middle Channel / QPSK



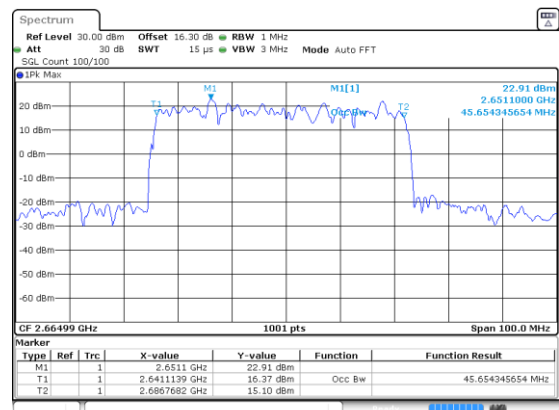
Middle Channel / 16Q



Highest Channel / QPSK



Highest Channel / 16Q

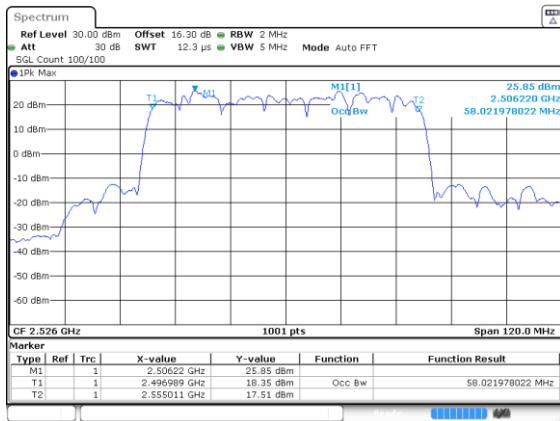




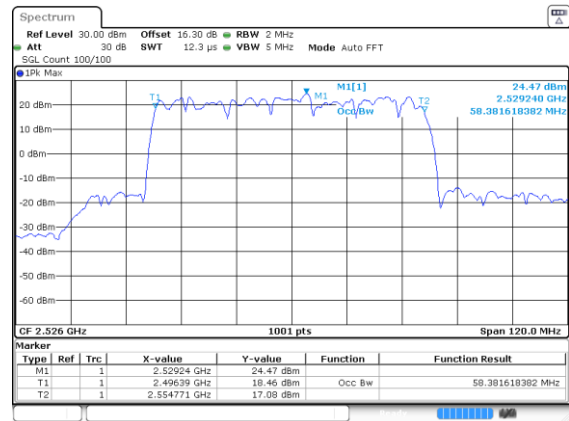
FR1 n41

60MHz

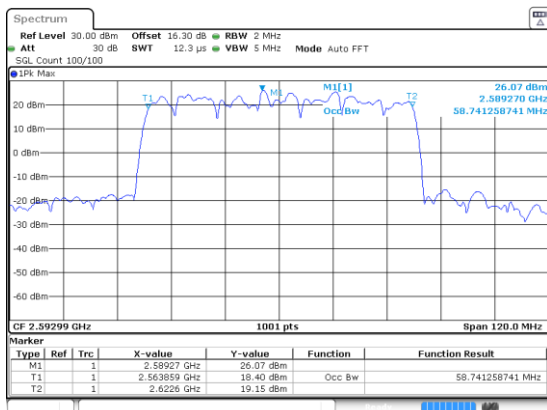
Lowest Channel / QPSK



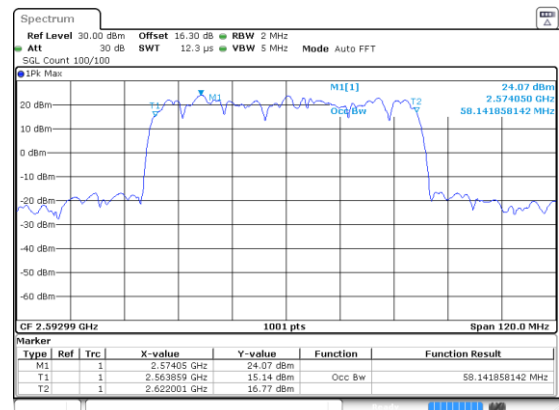
Lowest Channel / 16QAM



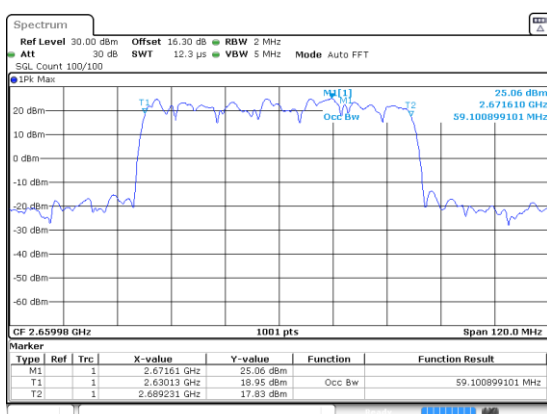
Middle Channel / QPSK



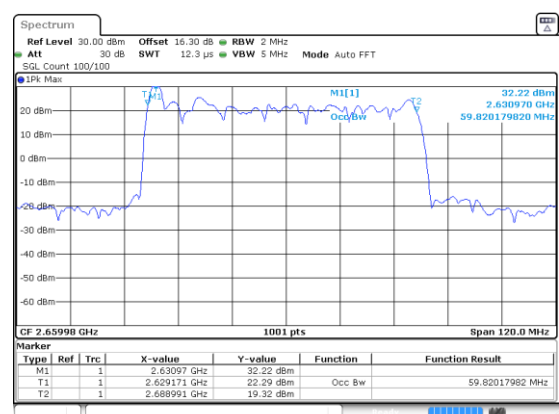
Middle Channel / 16Q



Highest Channel / QPSK



Highest Channel / 16Q

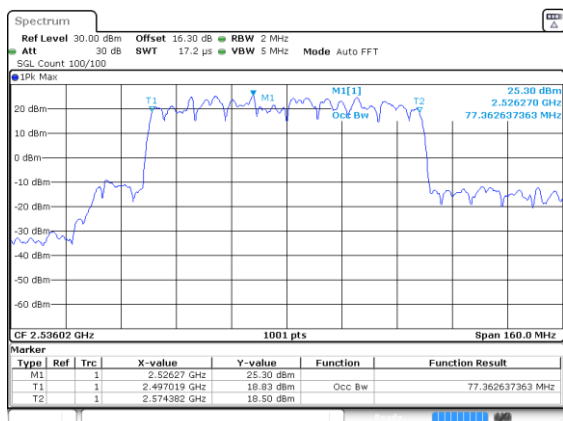




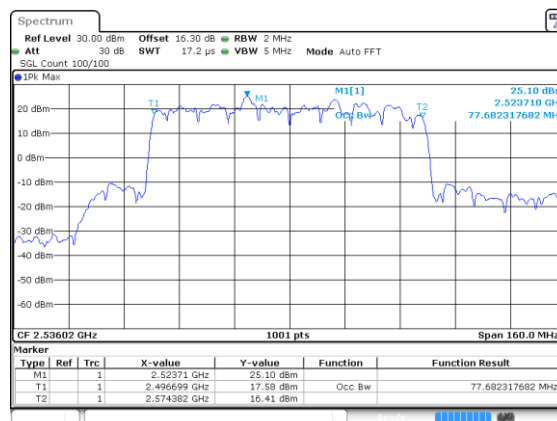
FR1 n41

80MHz

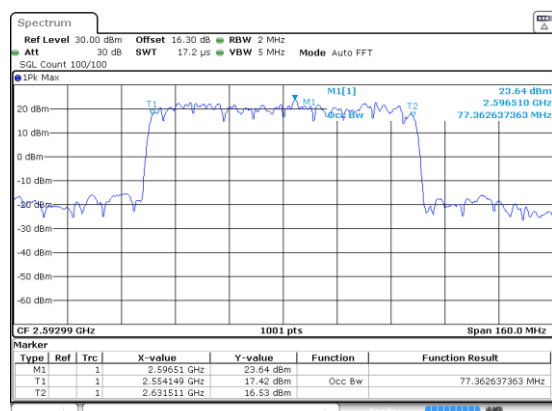
Lowest Channel / QPSK



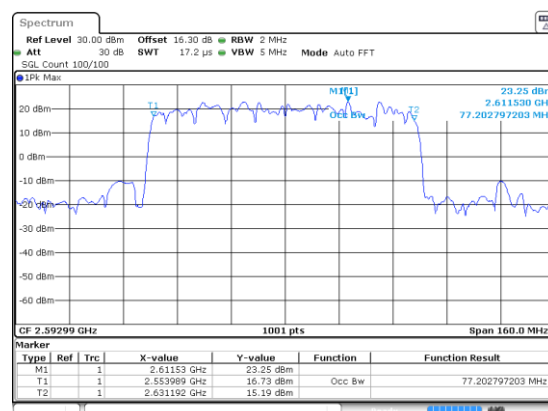
Lowest Channel / 16QAM



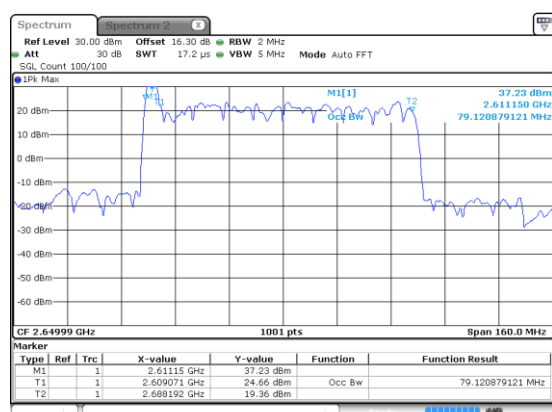
Middle Channel / QPSK



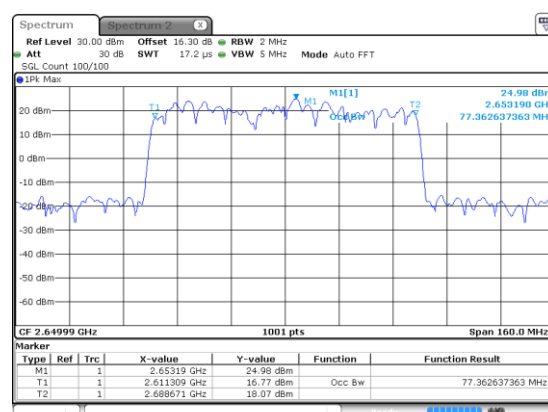
Middle Channel / 16Q



Highest Channel / QPSK



Highest Channel / 16Q

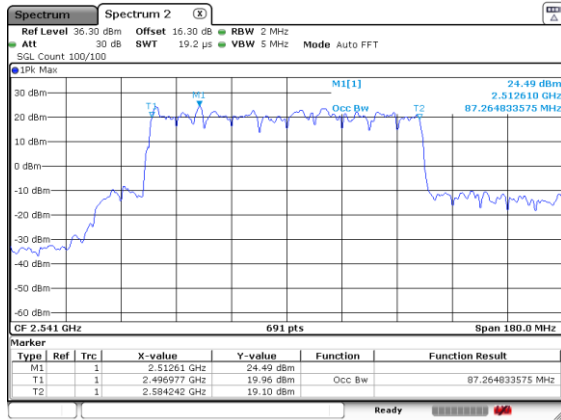




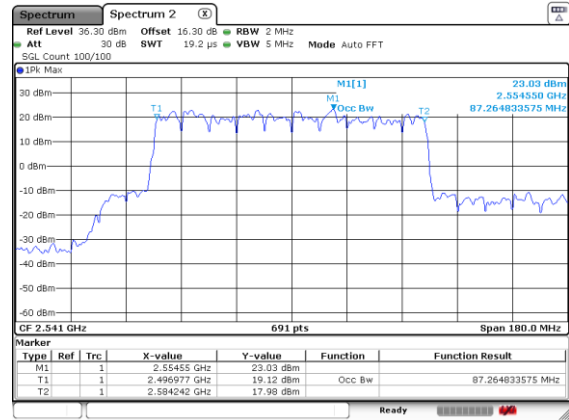
FR1 n41

90MHz

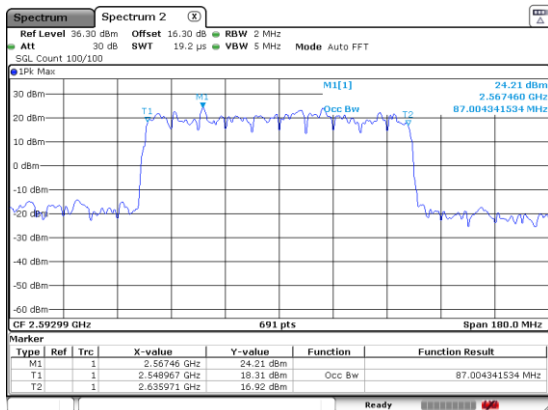
Lowest Channel / QPSK



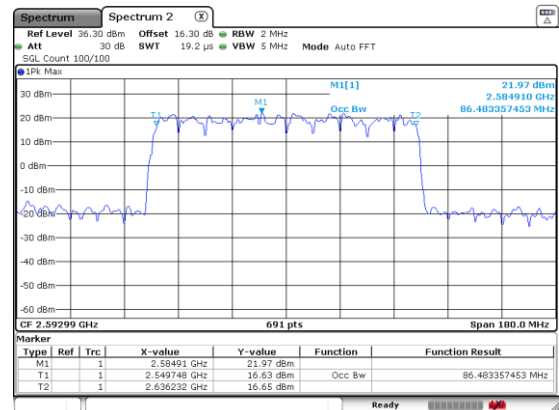
Lowest Channel / 16QAM



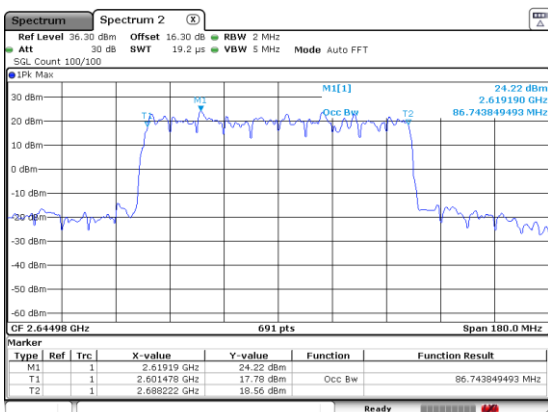
Middle Channel / QPSK



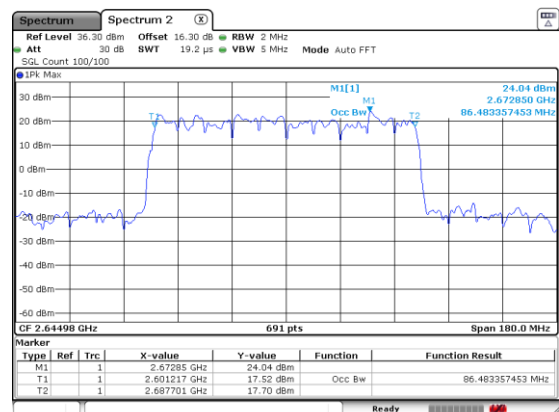
Middle Channel / 16Q



Highest Channel / QPSK



Highest Channel / 16Q

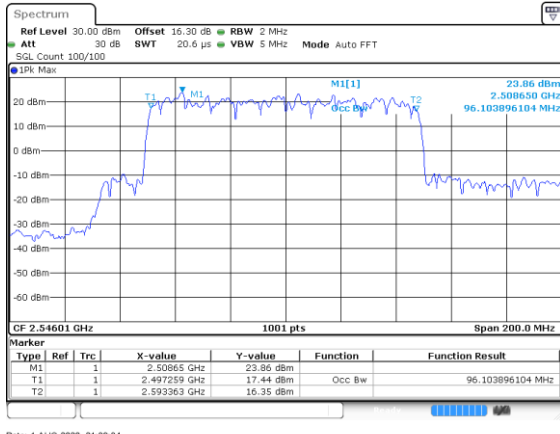




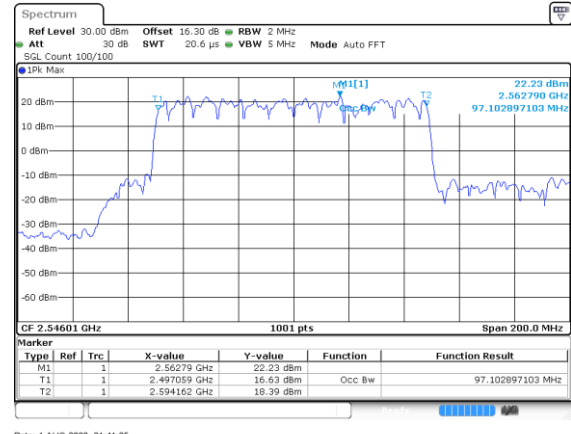
FR1 n41

100MHz

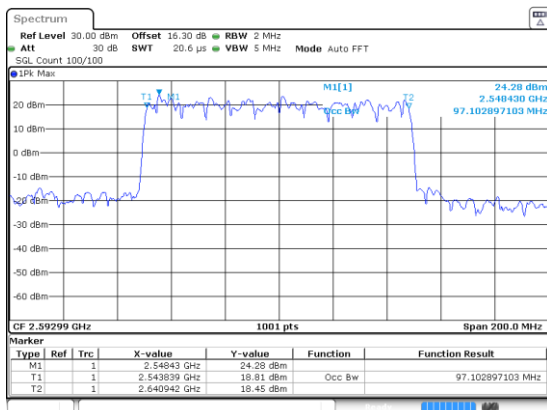
Lowest Channel / QPSK



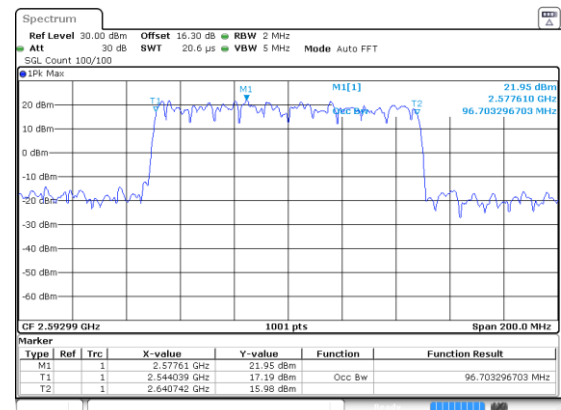
Lowest Channel / 16QAM



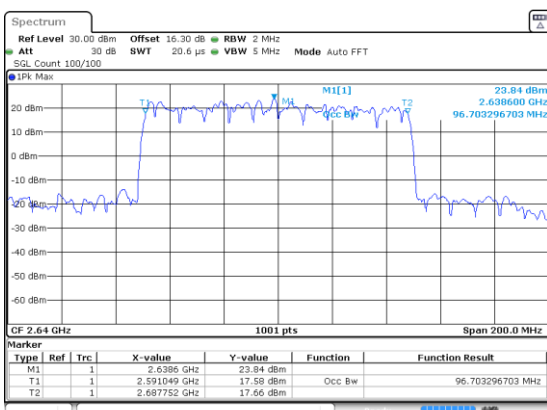
Middle Channel / QPSK



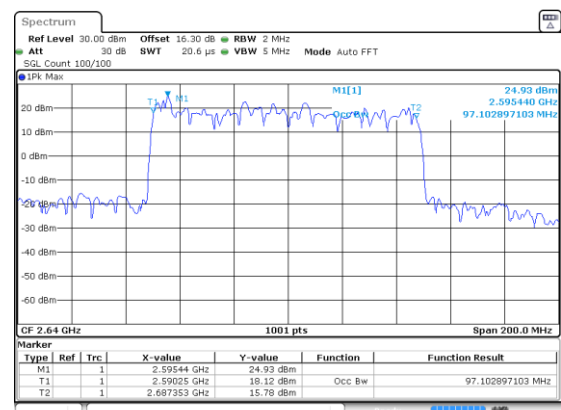
Middle Channel / 16Q

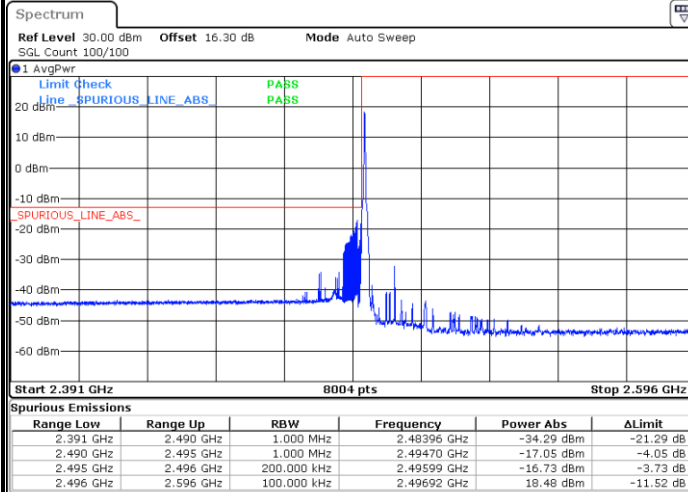
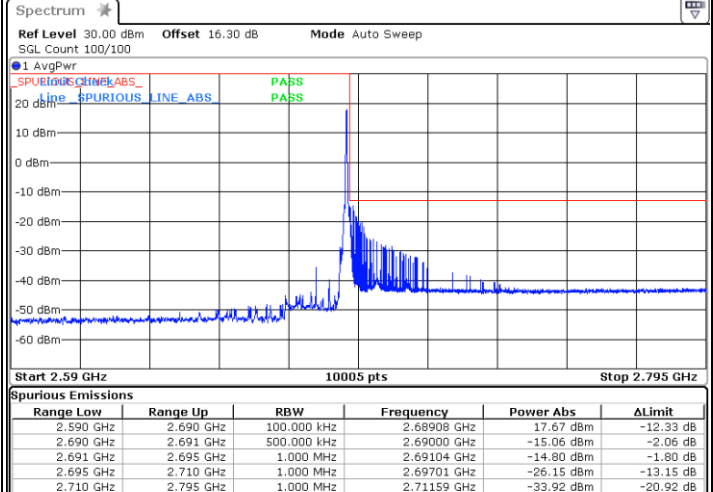
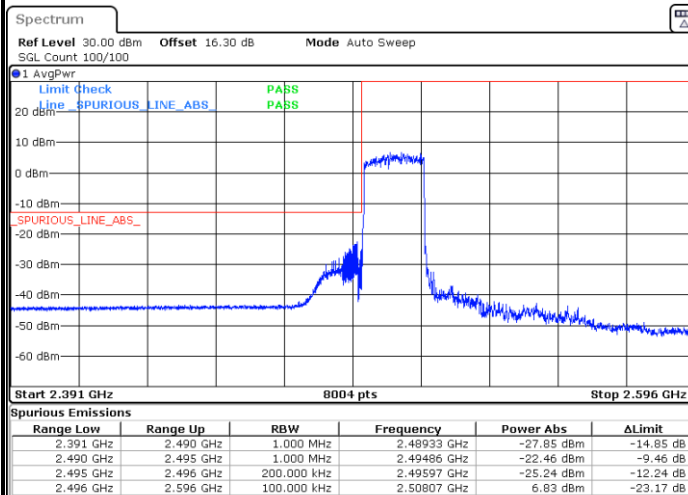
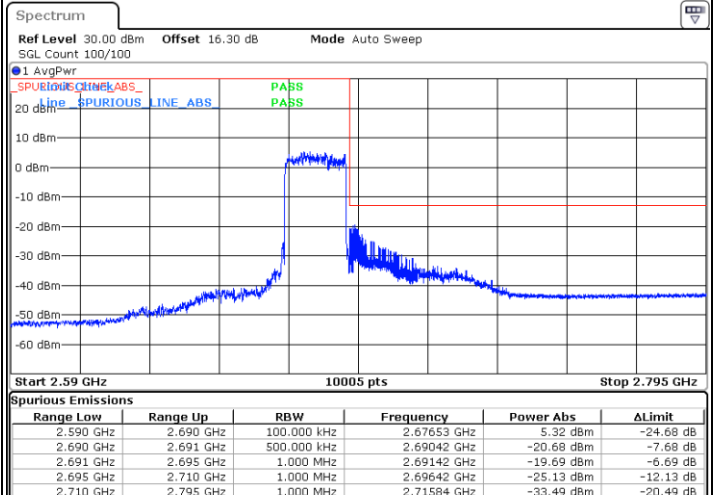


Highest Channel / QPSK



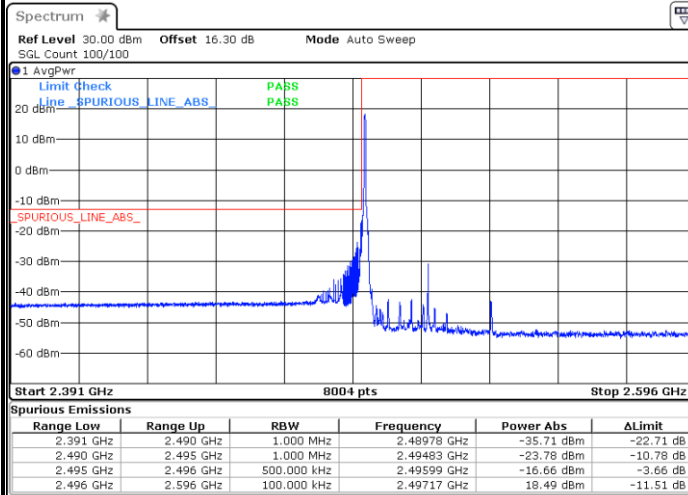
Highest Channel / 16Q



**Conducted Band Edge****FR1 n41 / 20MHz / QPSK / DFT-S OFDM****20M-L-1RB0-Q****20M-H-1RBMAX-Q****20M-L-FULLRB-Q****20M-H-FULLRB-Q**

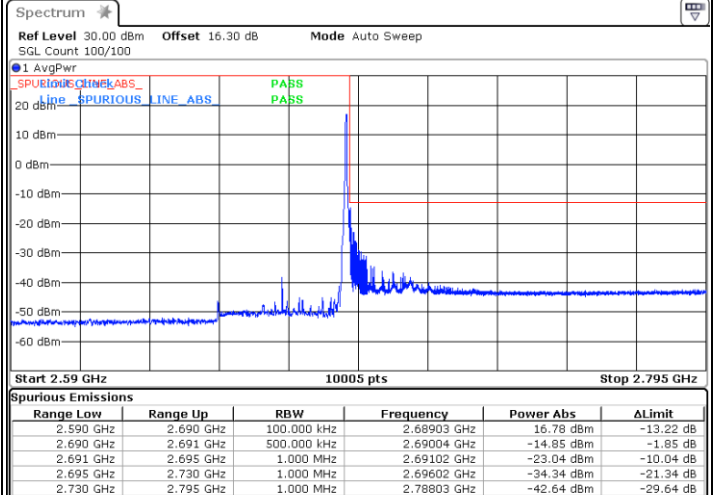


40M-L-1RB0-Q



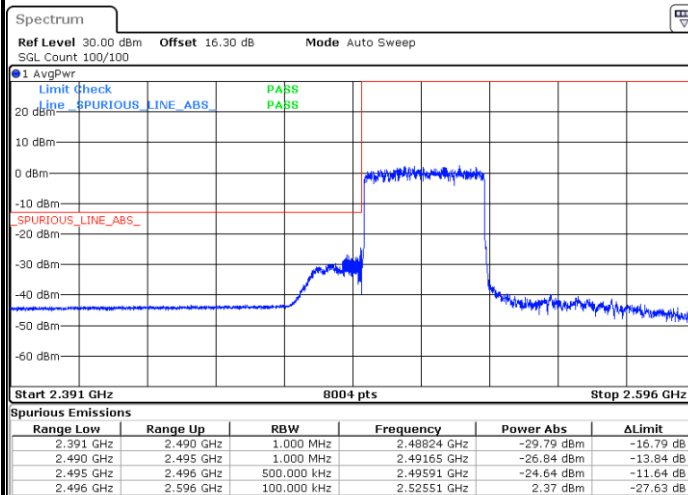
Date: 29 AUG 2020 06:00:53

40M-H-1RBMAX-Q



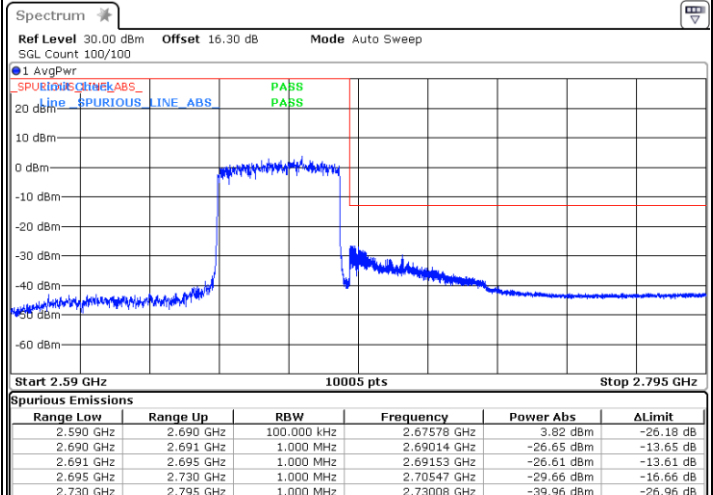
Date: 29 AUG 2020 00:00:01

40M-L-FULLRB-Q



Date: 28 AUG 2020 23:38:39

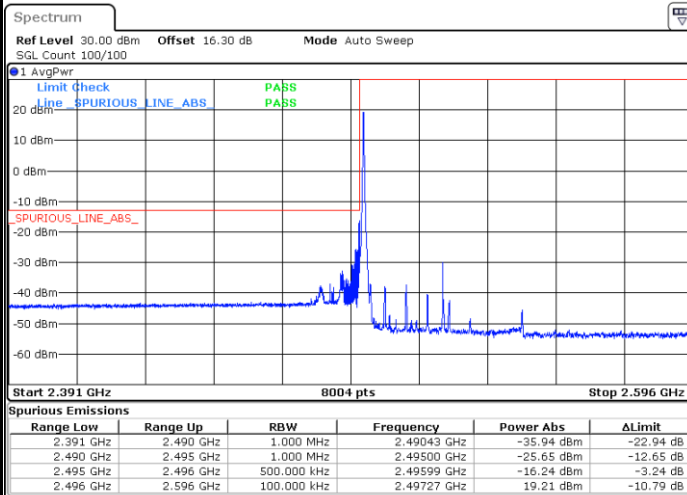
40M-H-FULLRB-Q



Date: 29 AUG 2020 00:07:15

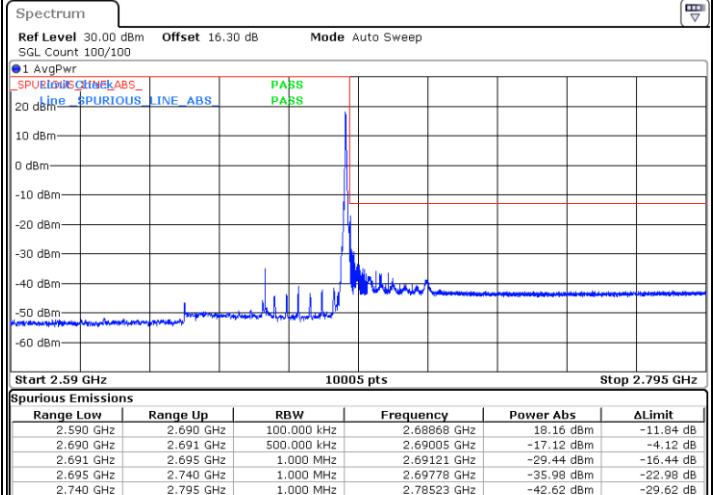


50M-L-1RB0-Q



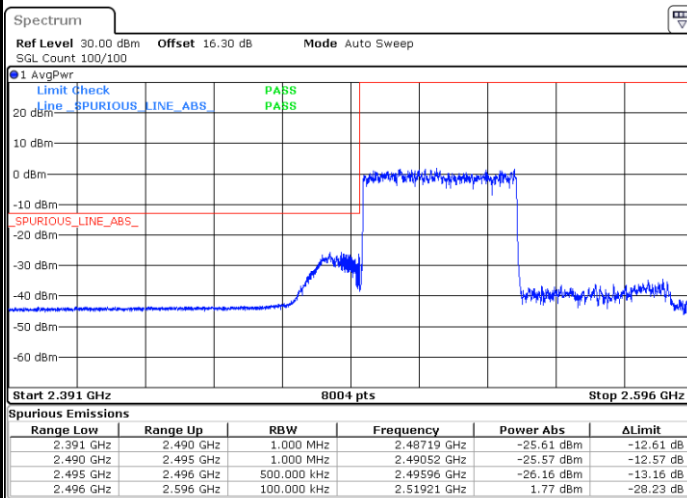
Date: 29 AUG 2020 01:54:00

50M-H-1RBMAX-Q



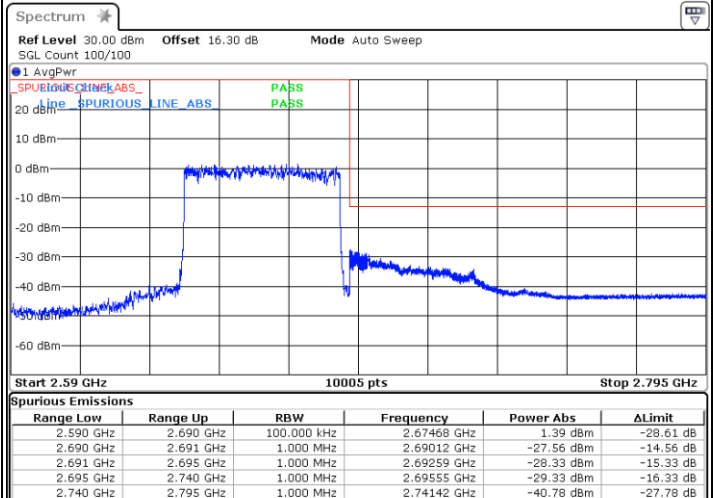
Date: 29 AUG 2020 03:14:42

50M-L-FULLRB-Q



Date: 29 AUG 2020 00:18:48

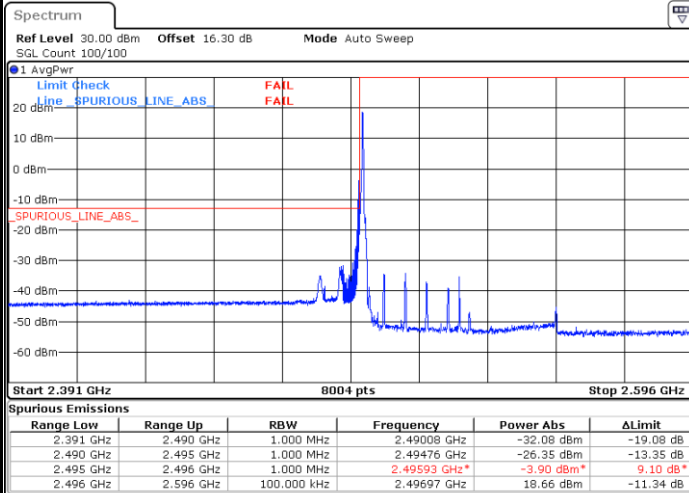
50M-H-FULLRB-Q



Date: 29 AUG 2020 03:17:26

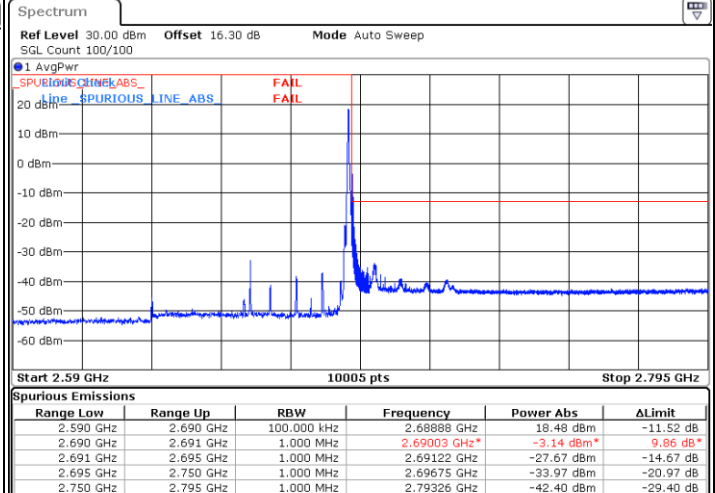


60M-L-1RB0-Q

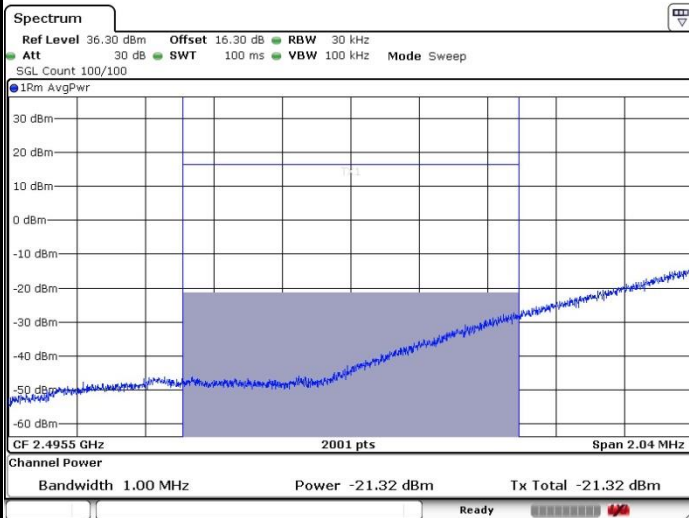


Date: 29 AUG 2020 03:24:22

60M-H-1RBMAX-Q

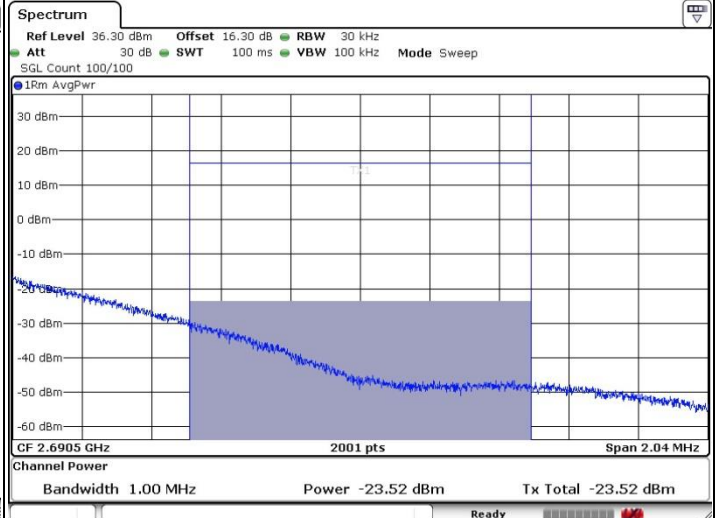


Date: 29 AUG 2020 03:44:06



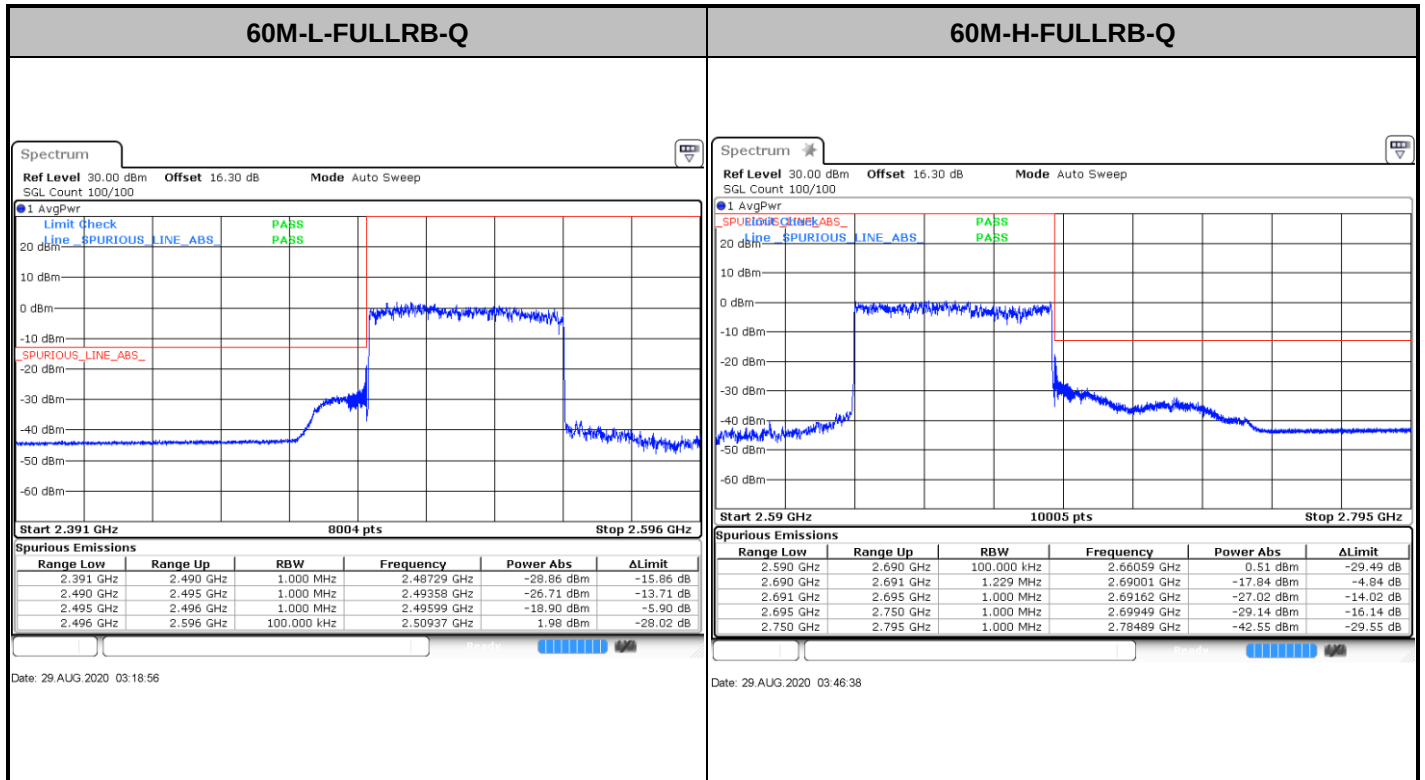
Date: 29 AUG 2020 12:45:25

Channel Power < -13dBm Pass



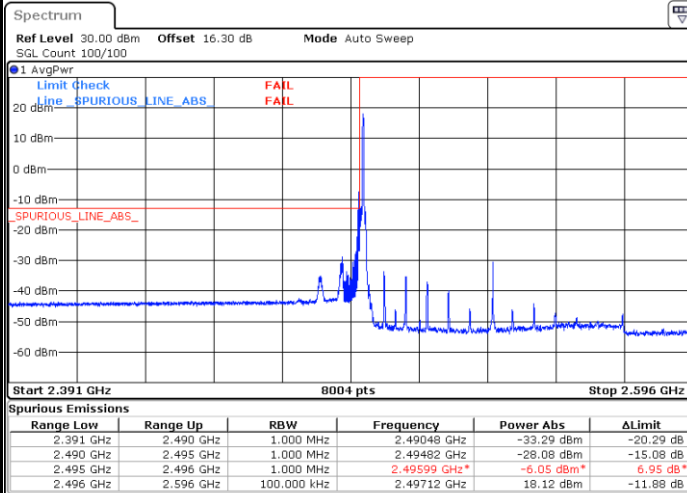
Date: 29 AUG 2020 13:24:40

Channel Power < -13dBm Pass



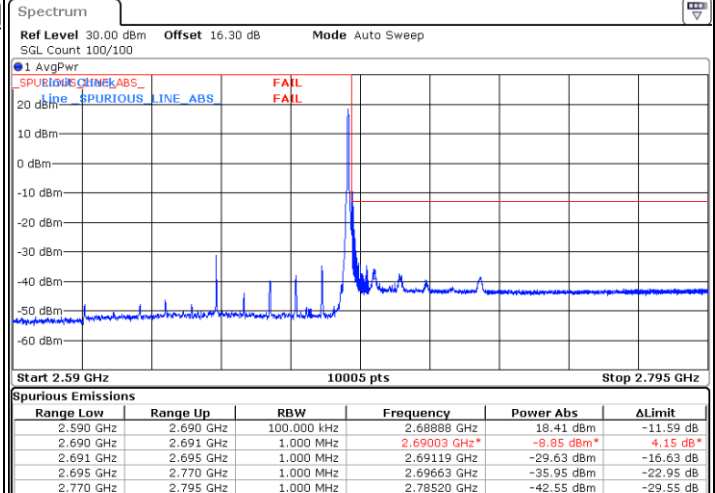


80M-L-1RB0-Q

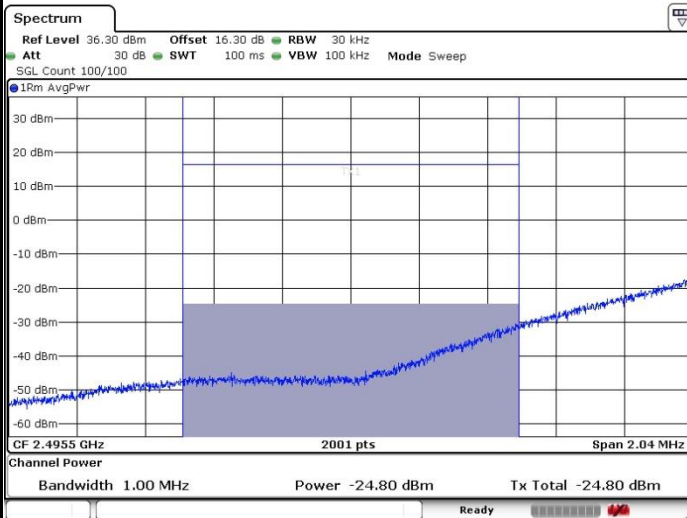


Date: 29 AUG 2020 03:53:03

80M-H-1RBMAX-Q

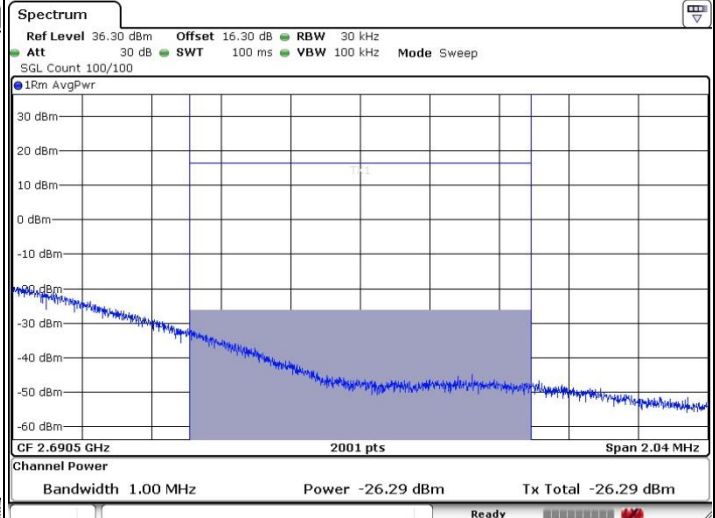


Date: 29 AUG 2020 04:30:45



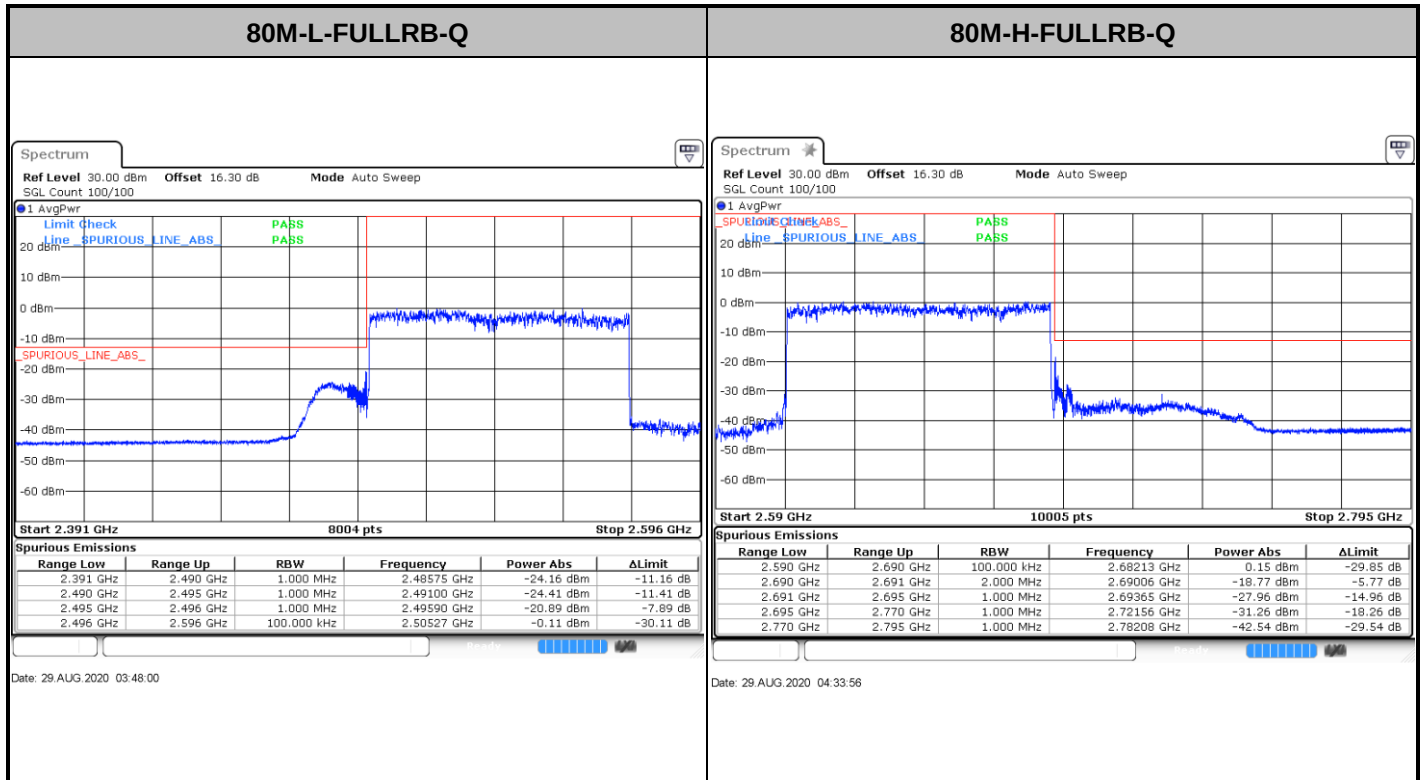
Date: 29 AUG 2020 13:33:22

Channel Power < -13dBm Pass



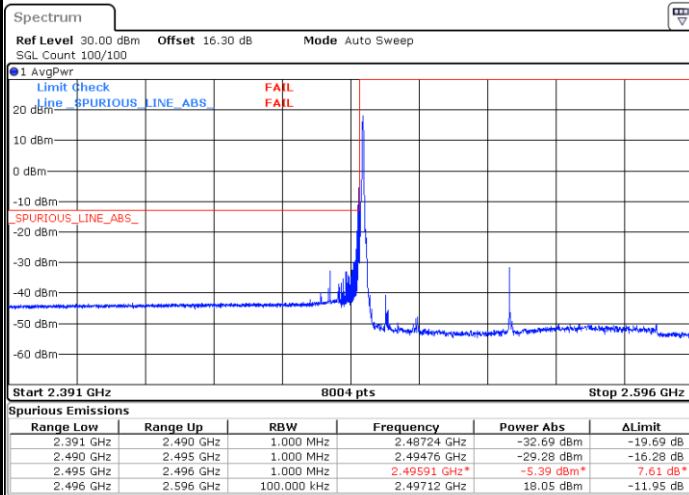
Date: 29 AUG 2020 13:36:11

Channel Power < -13dBm Pass



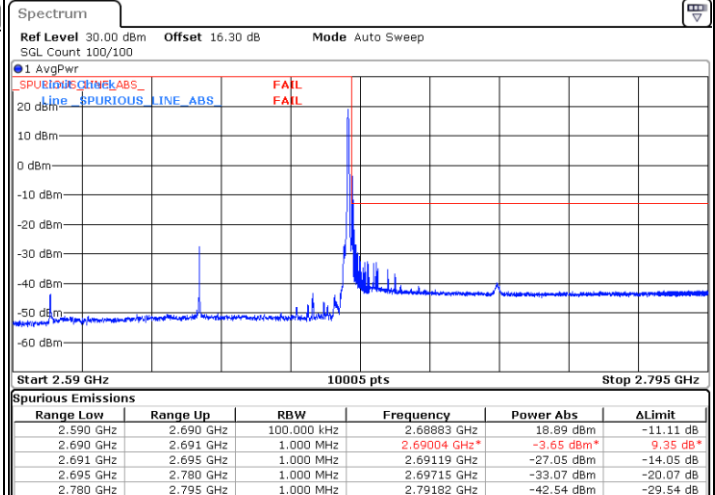


90M-L-1RB0-Q

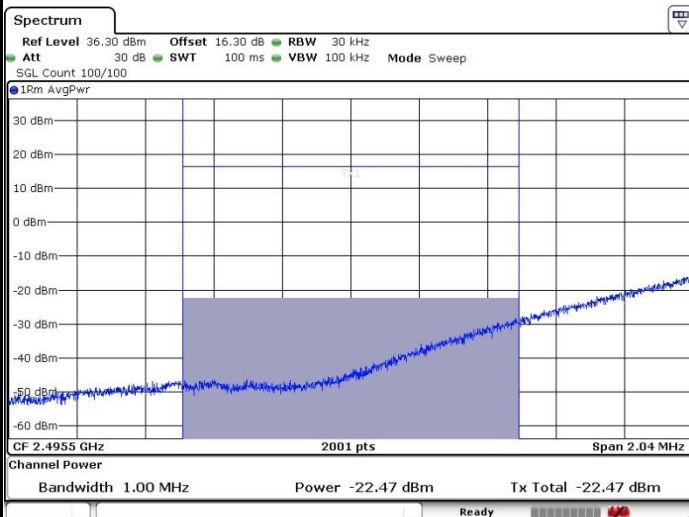


Date: 29 AUG 2020 04:49:06

90M-L-1RBMAX-Q

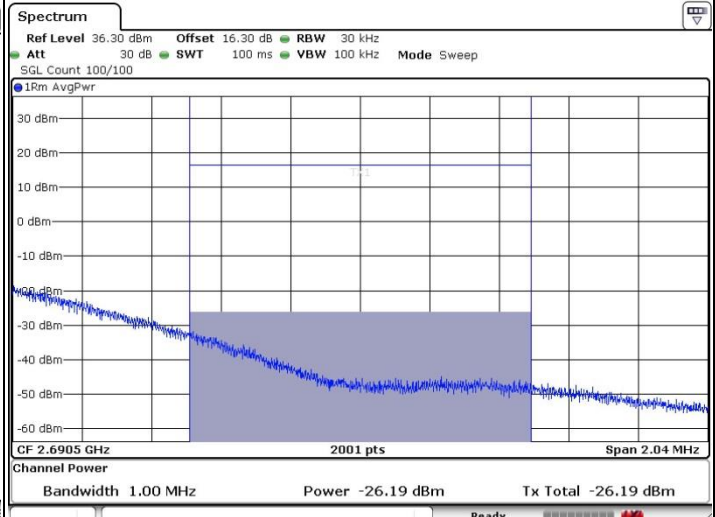


Date: 29 AUG 2020 05:11:07



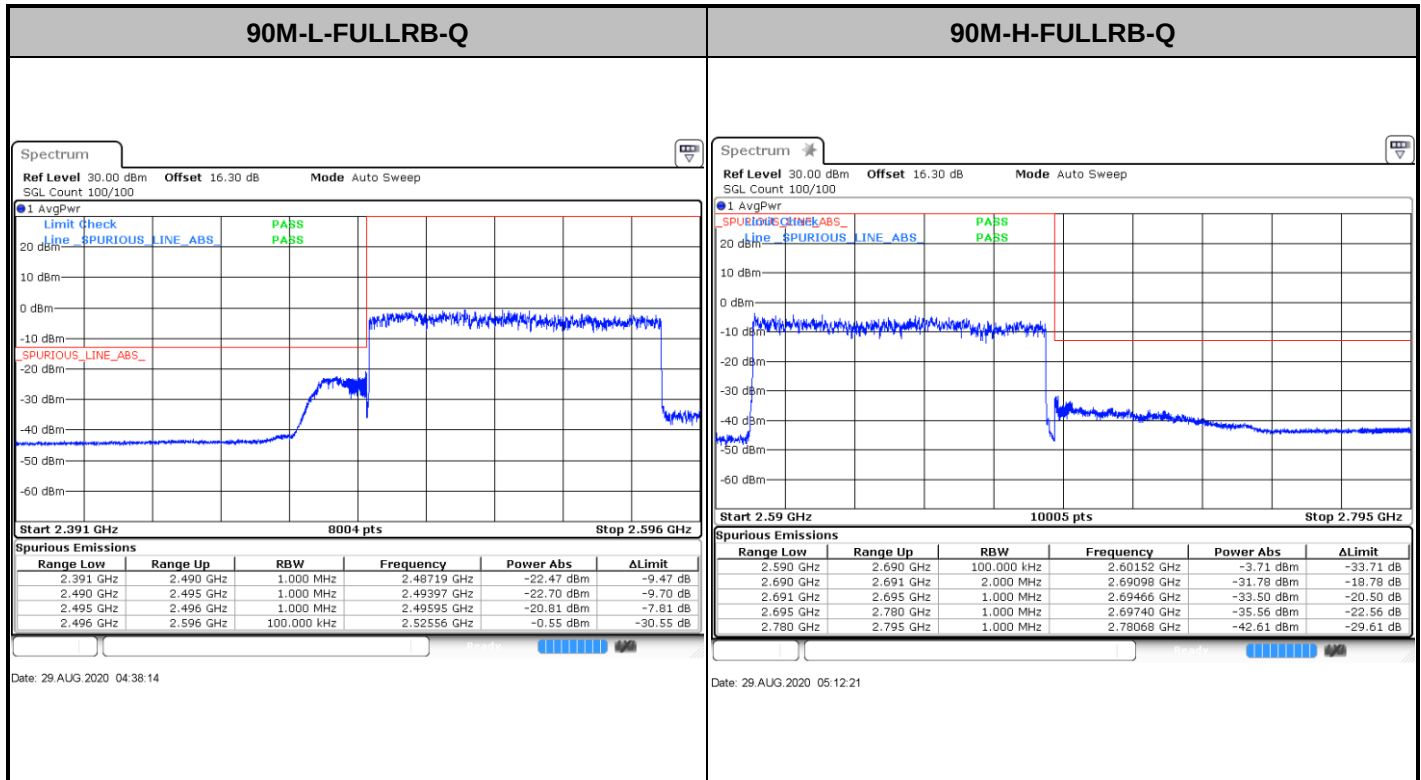
Date: 29 AUG 2020 13:40:34

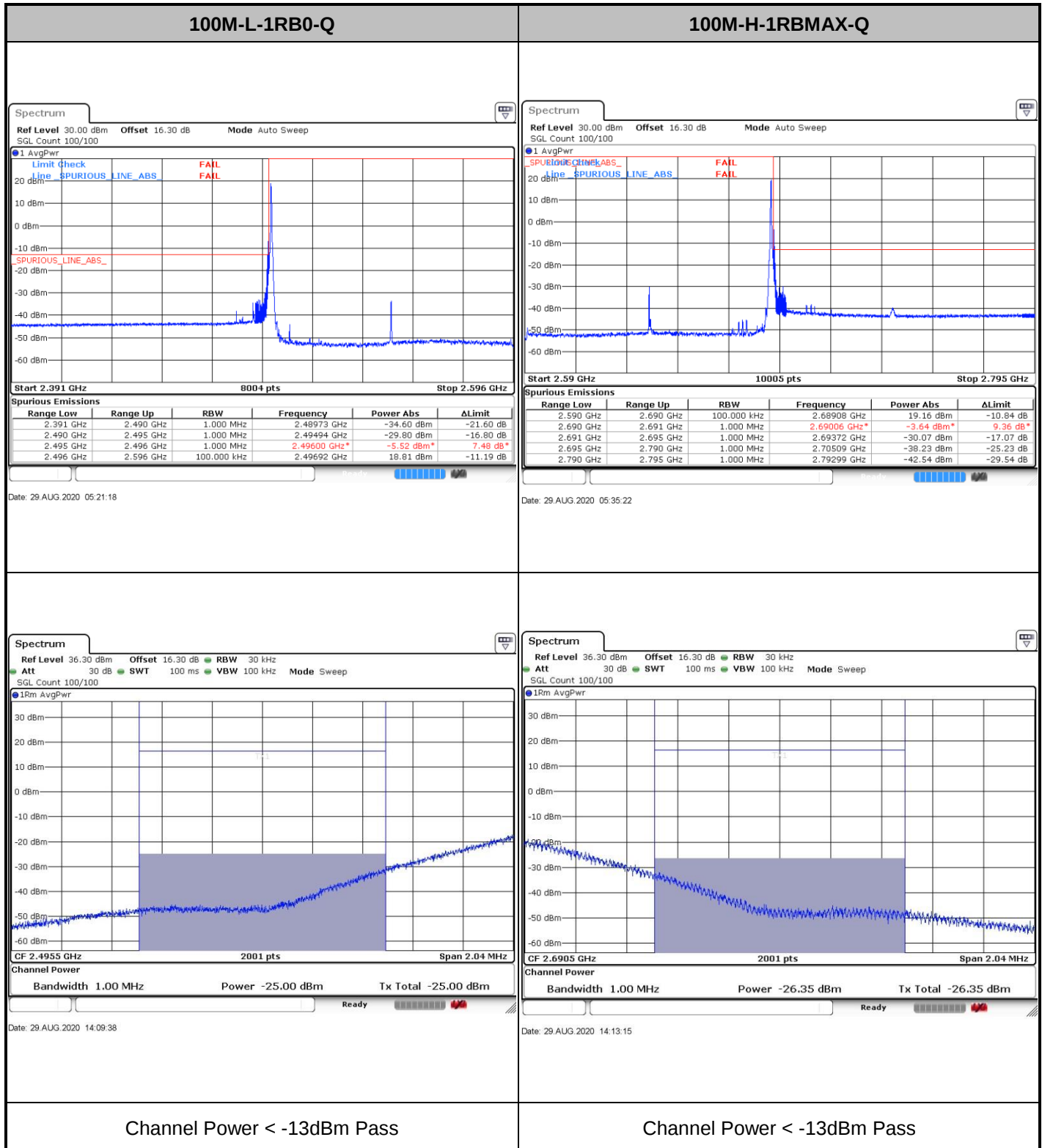
Channel Power < -13dBm Pass

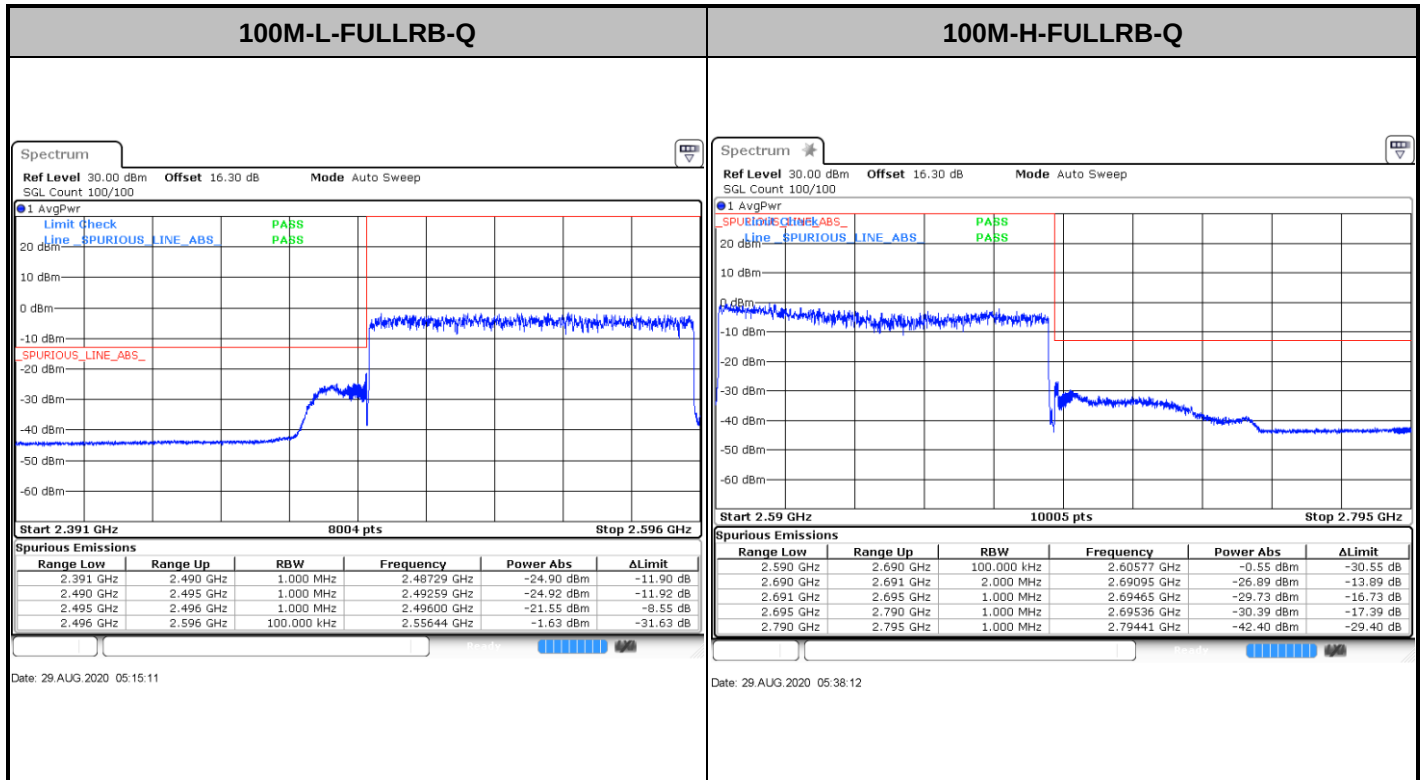


Date: 29 AUG 2020 13:45:56

Channel Power < -13dBm Pass





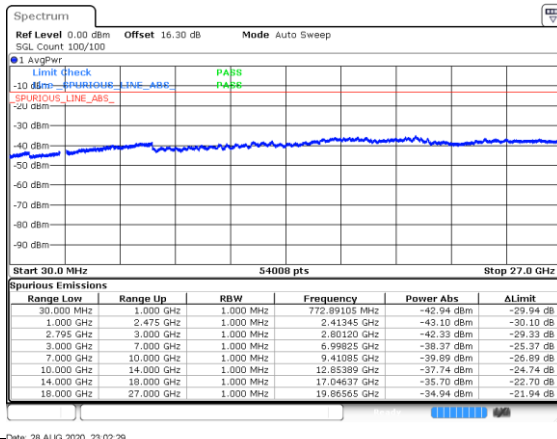


Conducted Spurious Emission

FR1 n41 / DFT-S OFDM

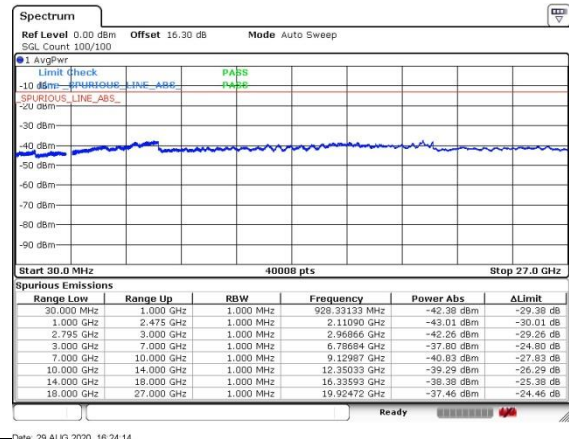
20MHz

Lowest Channel / QPSK

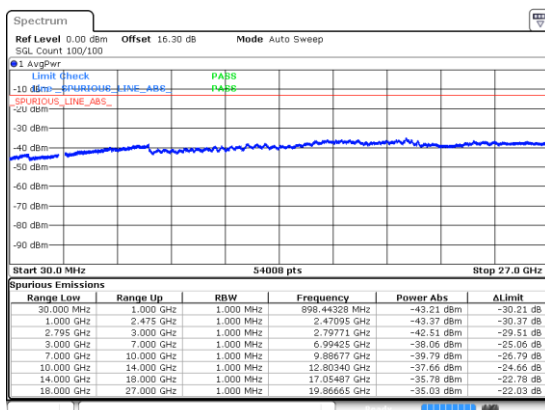


40MHz

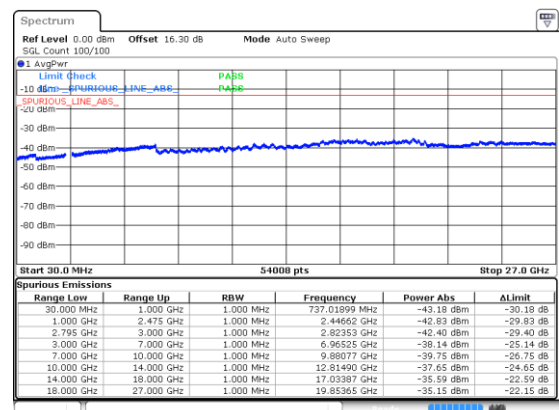
Lowest Channel / QPSK



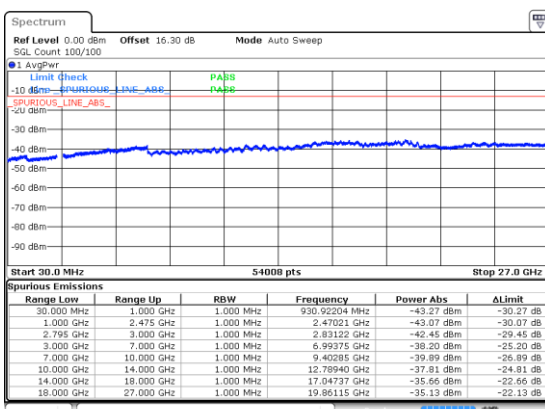
Middle Channel / QPSK



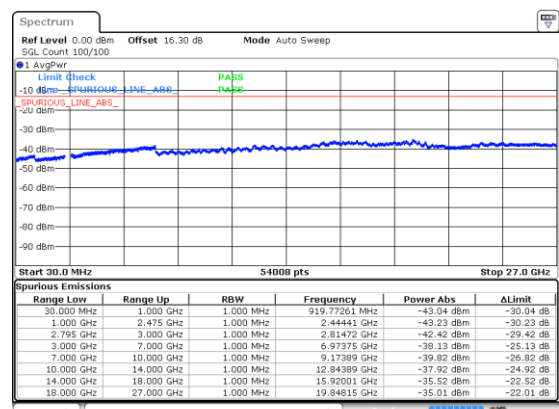
Middle Channel / QPSK



Highest Channel / QPSK



Highest Channel / QPSK

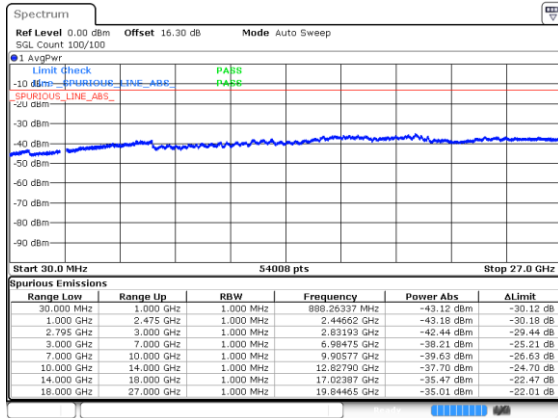




FR1 n41

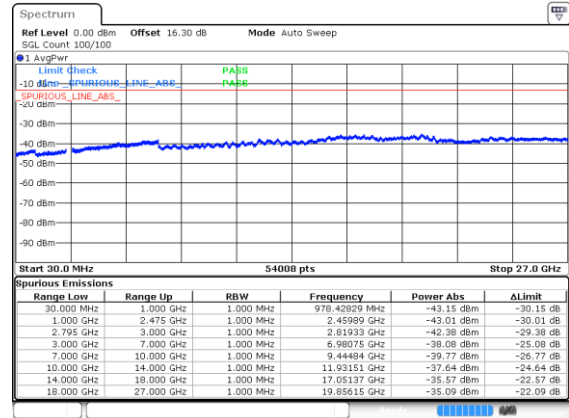
50MHz

Lowest Channel / QPSK

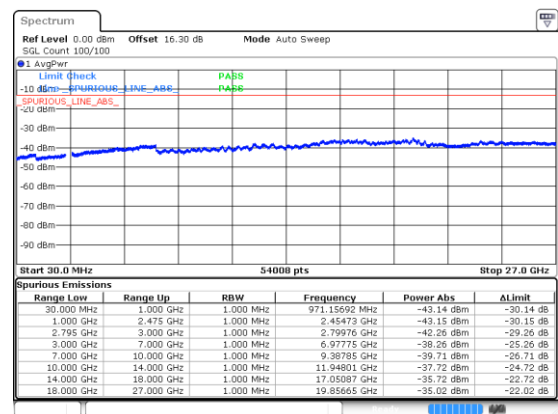


60MHz

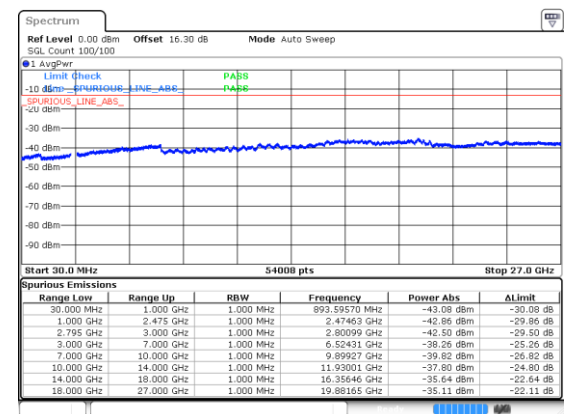
Lowest Channel / QPSK



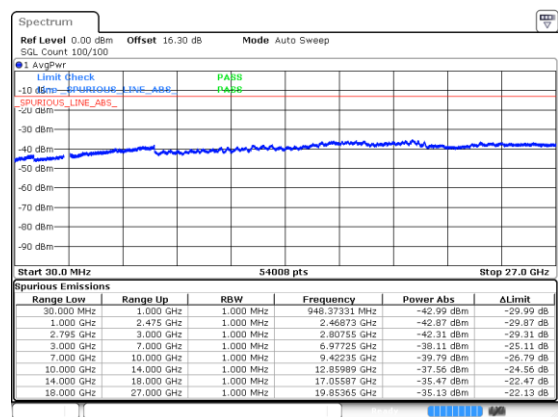
Middle Channel / QPSK



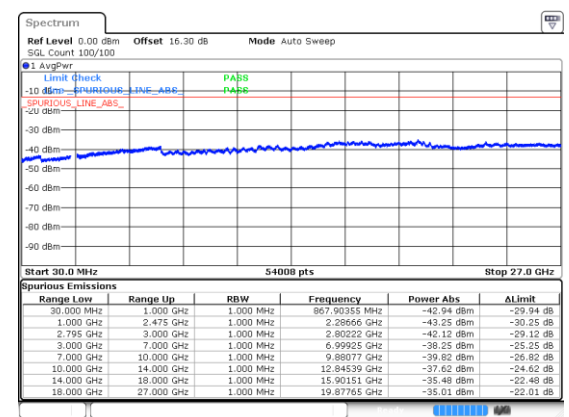
Middle Channel / QPSK



Highest Channel / QPSK



Highest Channel / QPSK

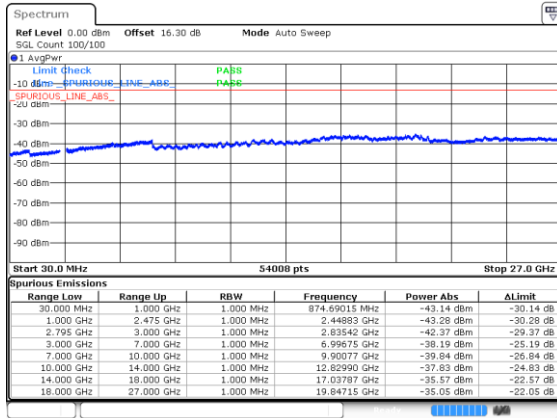




FR1 n41

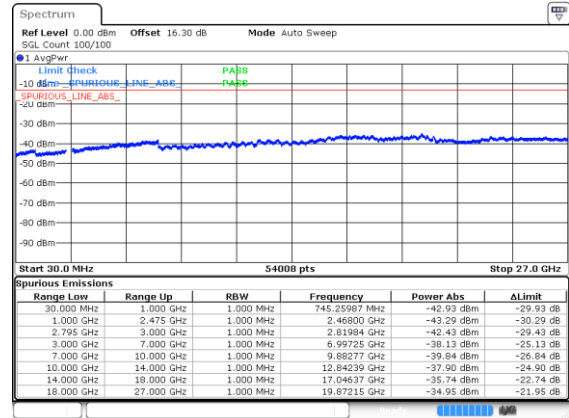
80MHz

Lowest Channel / QPSK

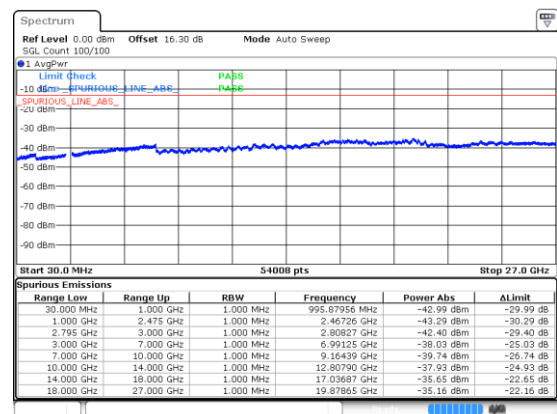


90MHz

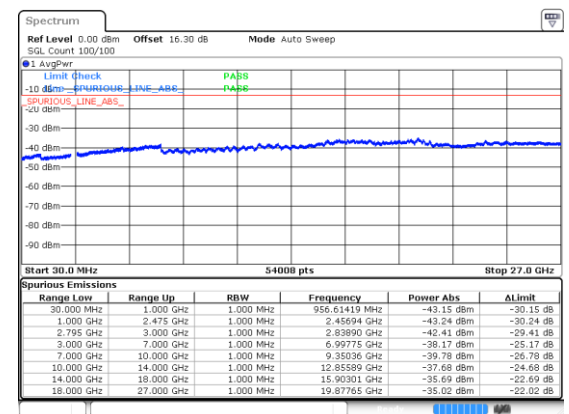
Lowest Channel / QPSK



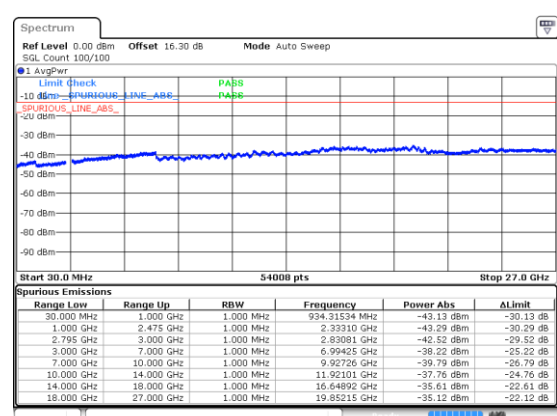
Middle Channel / QPSK



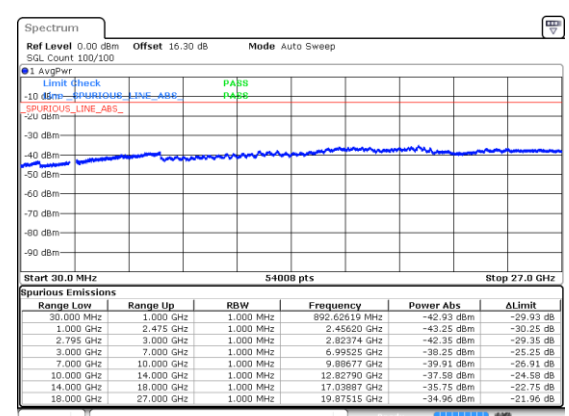
Middle Channel / QPSK



Highest Channel / QPSK



Highest Channel / QPSK

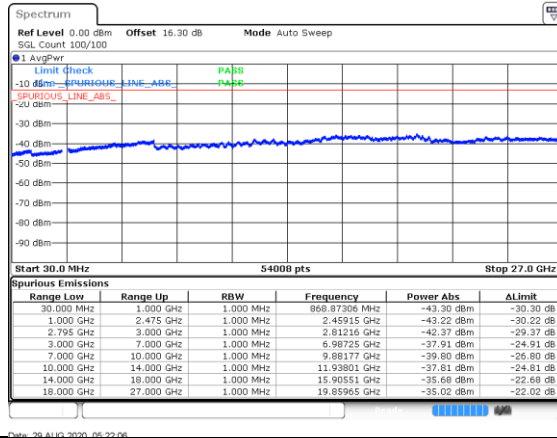




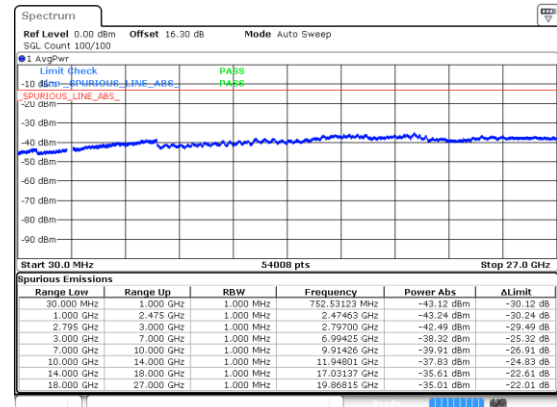
FR1 n41

100MHz

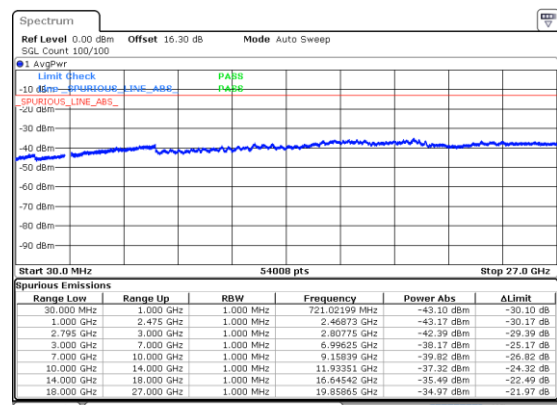
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK



Frequency Stability

Test Conditions		FR1 n41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0000	
30	Normal Voltage	0.0000	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0004	
20	Battery End Point	0.0009	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.135 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



5G NR n66

Peak-to-Average Ratio

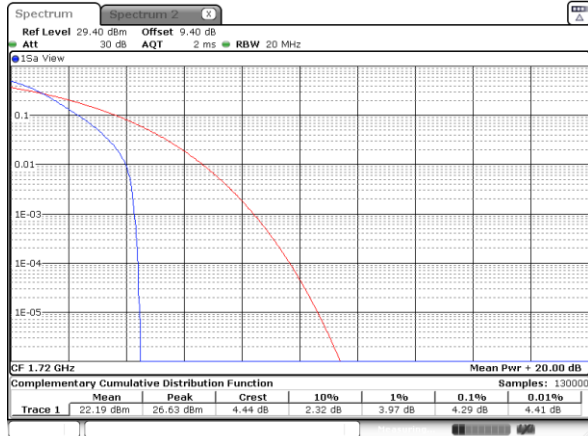
Mode	FR1 n66 / 20MHz / DFT-S OFDM		
Mod.	QPSK	QPSK	Limit: 13dB
RB Size	Full RB	1 RB0	Result
Lowest CH	4.29	3.97	PASS
Middle CH	4.29	3.88	
Highest CH	4.29	3.88	



FR1 n66 / 20MHz / DFT-S OFDM

QPSK

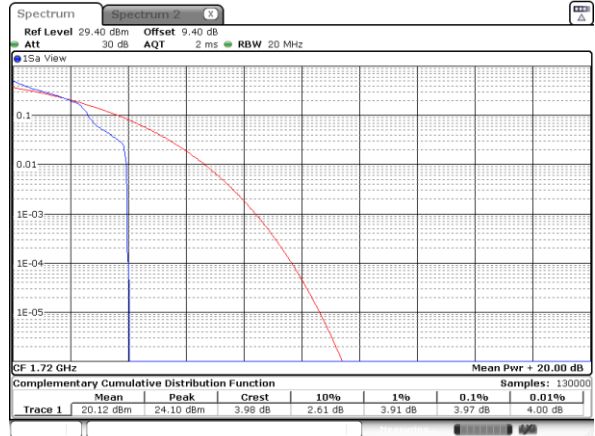
Lowest Channel / Full RB



Date: 2 AUG 2020 20:19:53

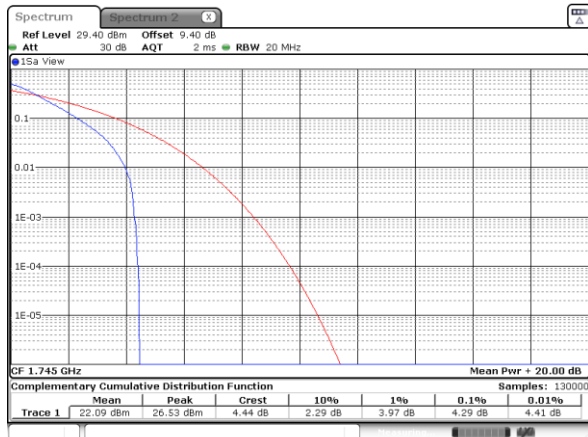
QPSK

Lowest Channel / 1RB0



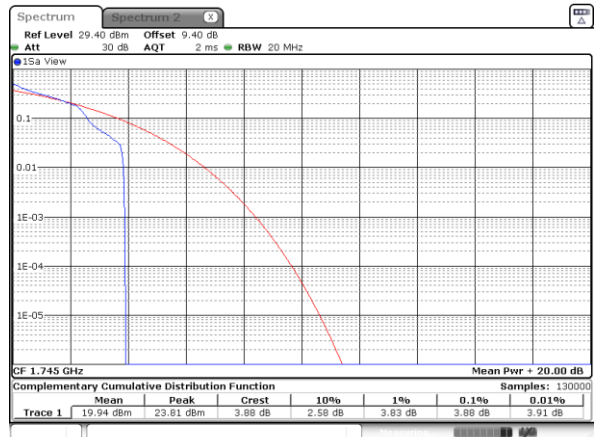
Date: 2 AUG 2020 20:25:06

Middle Channel / Full RB



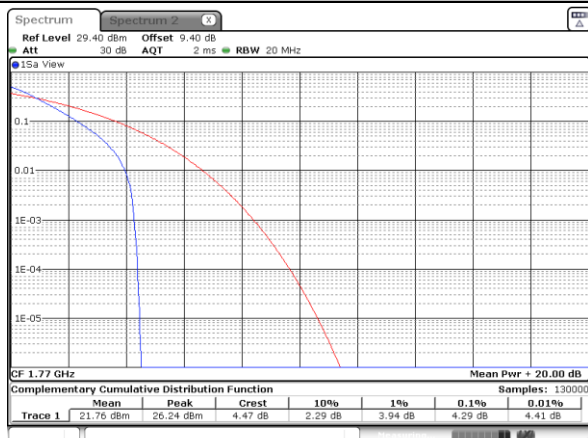
Date: 2 AUG 2020 20:33:35

Middle Channel / 1RB0



Date: 2 AUG 2020 20:27:09

Highest Channel / Full RB



Date: 2 AUG 2020 20:35:00

Highest Channel / 1RB0



Date: 2 AUG 2020 20:38:55



26dB Bandwidth

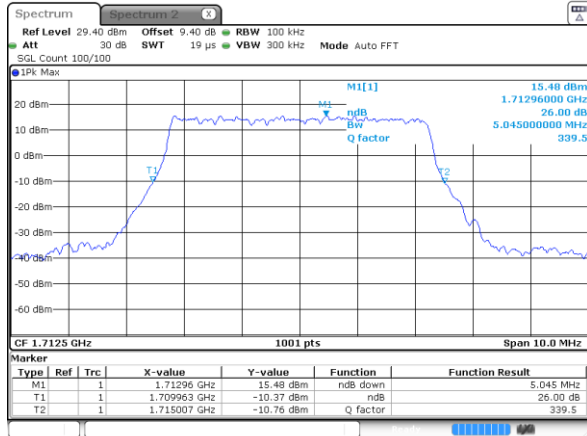
Mode	FR1 n66 : 26dB BW(MHz) / DFT-S OFDM			
BW	5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	QPSK	QPSK	QPSK
Lowest CH	5.04	9.85	14.42	20.18
Middle CH	5.05	9.79	14.45	20.30
Highest CH	5.03	9.93	14.42	20.26



FR1 n66 / DFT-S OFDM

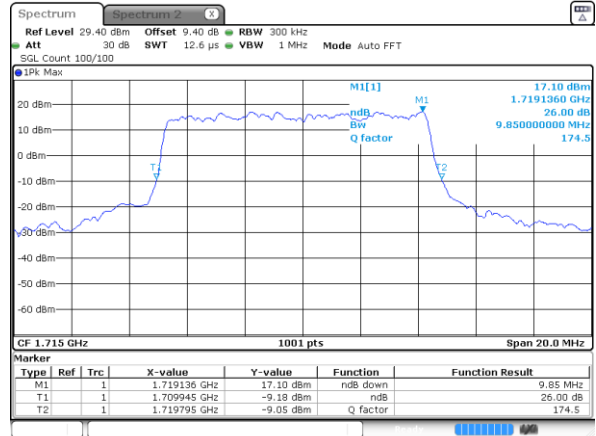
QPSK / 5MHz

Lowest Channel

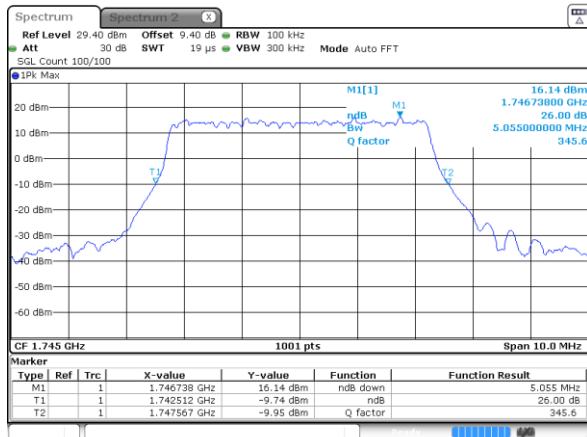


QPSK / 10MHz

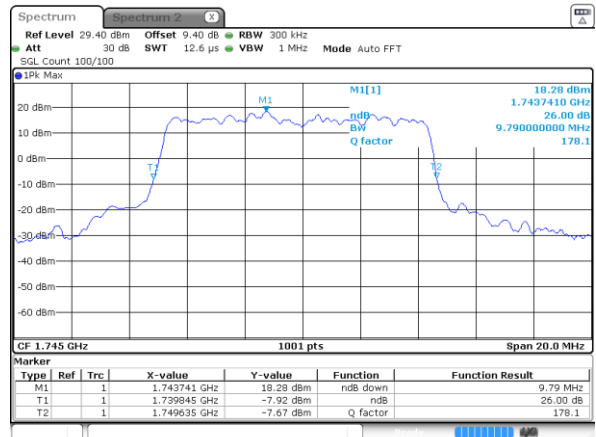
Lowest Channel



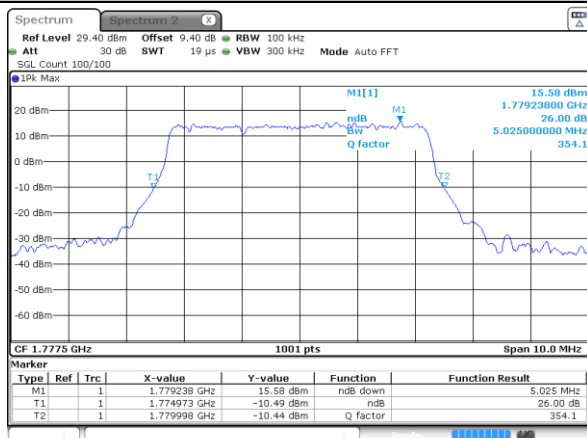
Middle Channel



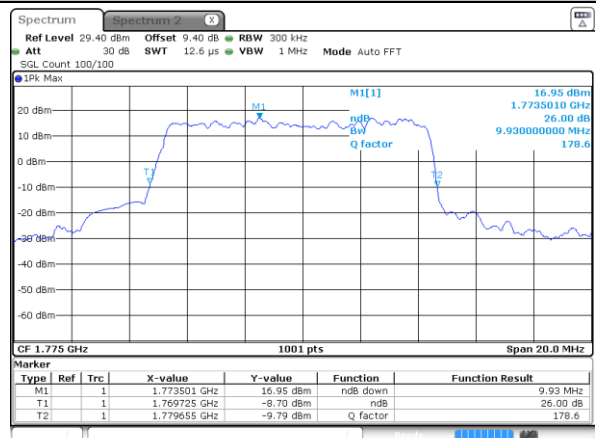
Middle Channel



Highest Channel



Highest Channel

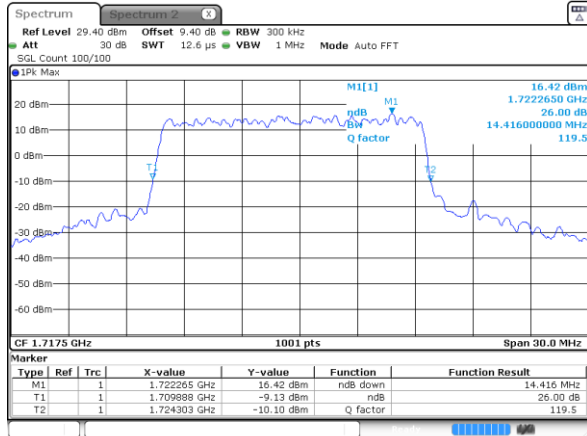




FR1 n66 / DFT-S OFDM

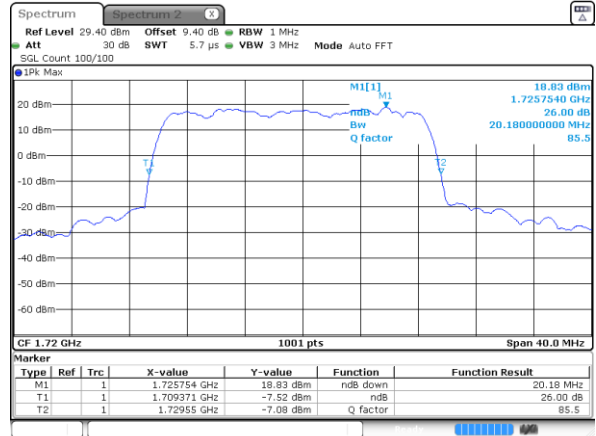
QPSK / 15MHz

Lowest Channel

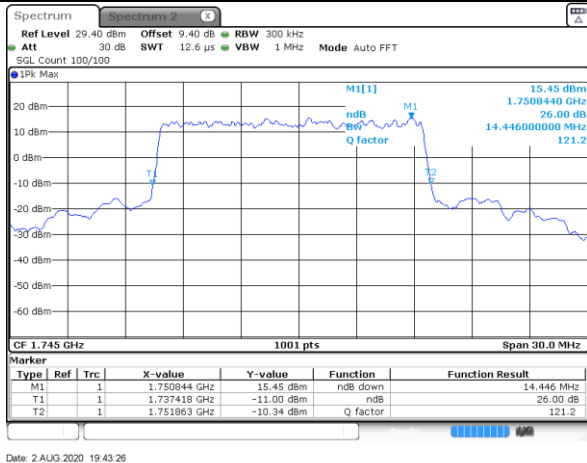


QPSK / 20MHz

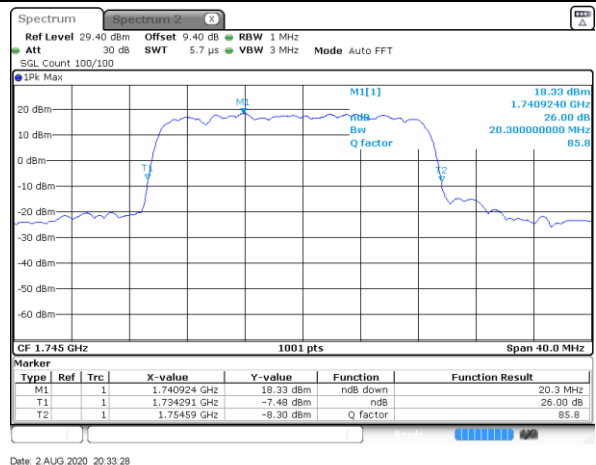
Lowest Channel



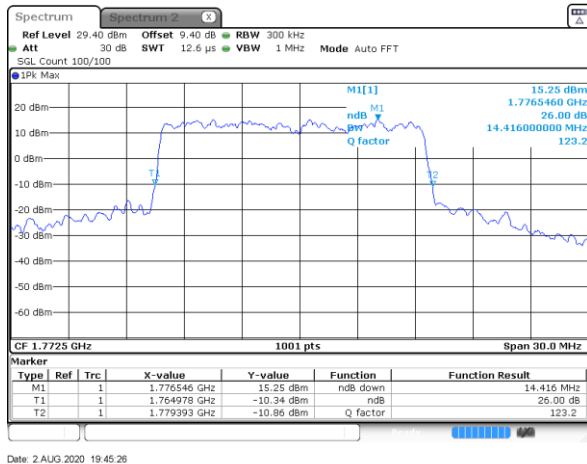
Middle Channel



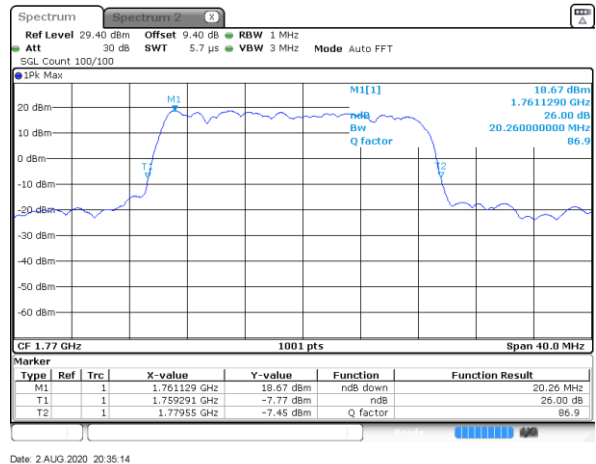
Middle Channel



Highest Channel



Highest Channel



**Occupied Bandwidth**

Mode	FR1 n66 : 99%OBW (MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.49	4.50	9.01	9.07	13.52	13.52	18.34	18.26
Middle CH	4.47	4.48	9.03	9.07	13.52	13.43	18.34	18.62
Highest CH	4.48	4.49	9.05	9.05	13.55	13.49	18.42	18.42