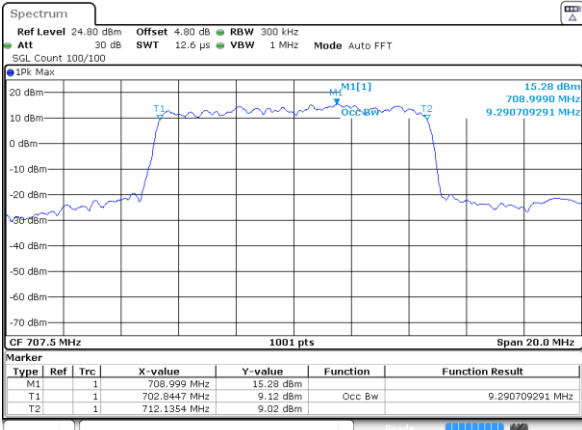




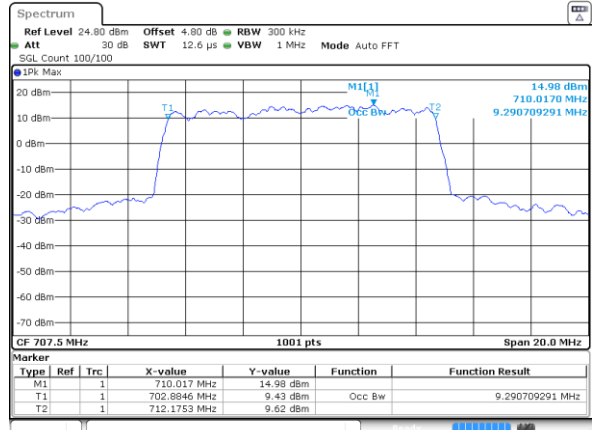
FR1 n12 / 10MHz / CP OFDM

QPSK



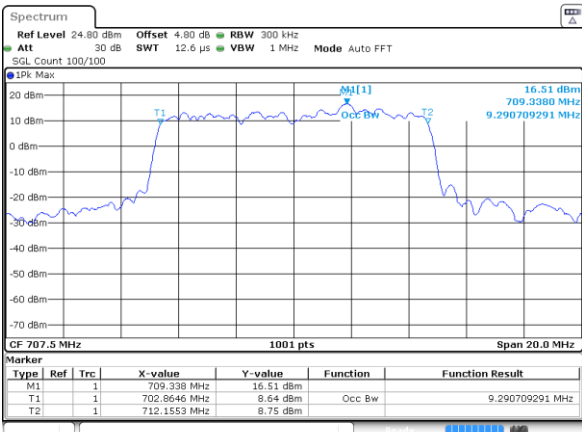
Date: 22 JUN 2022 10:17:32

16QAM



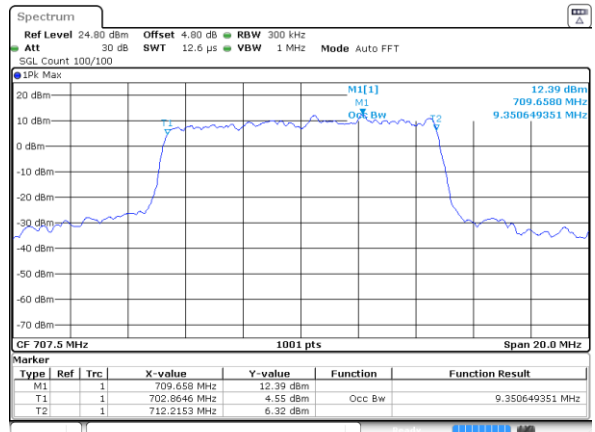
Date: 22 JUN 2022 10:17:59

64QAM



Date: 22 JUN 2022 10:18:28

256QAM

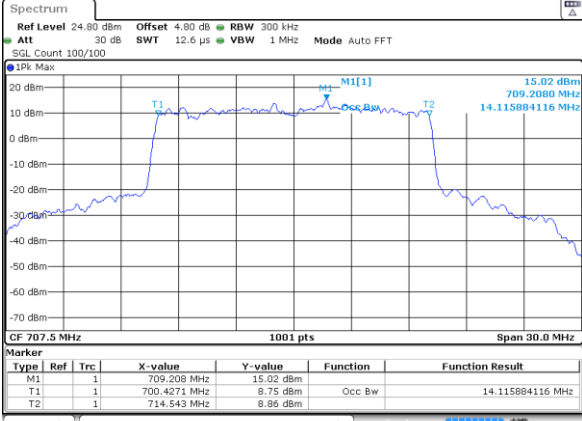


Date: 22 JUN 2022 10:20:50



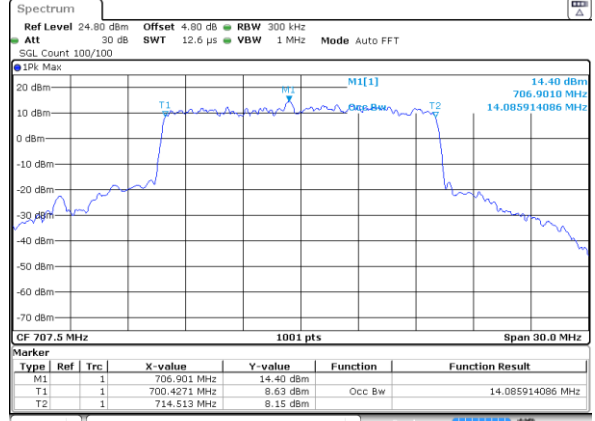
FR1 n12 / 15MHz / CP OFDM

QPSK



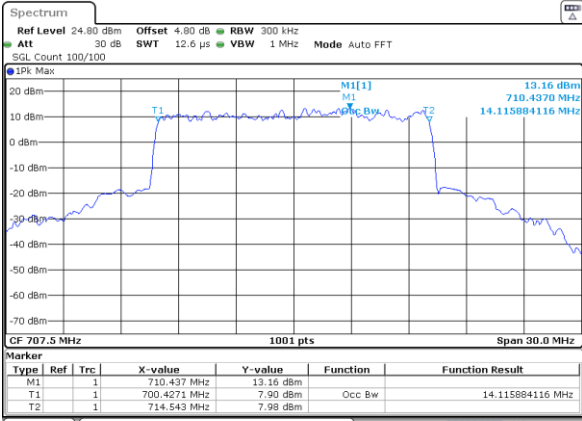
Date: 22 JUN 2022 10:31:28

16QAM



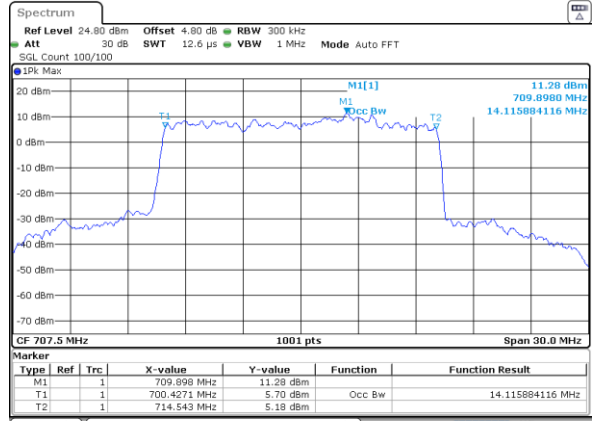
Date: 22 JUN 2022 10:31:49

64QAM



Date: 22 JUN 2022 10:32:08

256QAM



Date: 22 JUN 2022 10:33:43

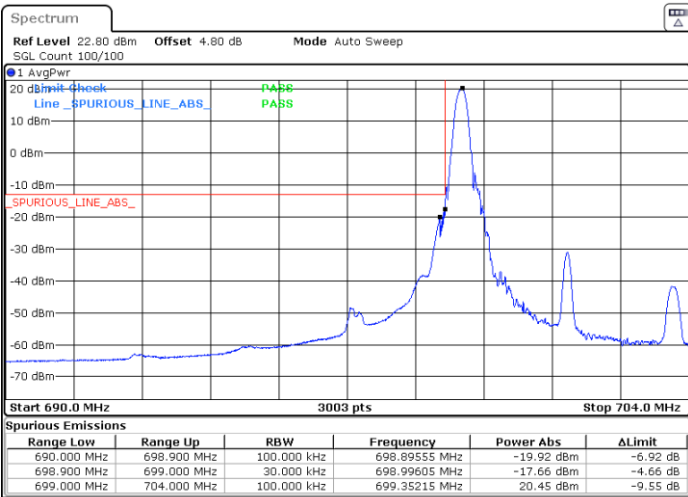


Conducted Band Edge

FR1 n12 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



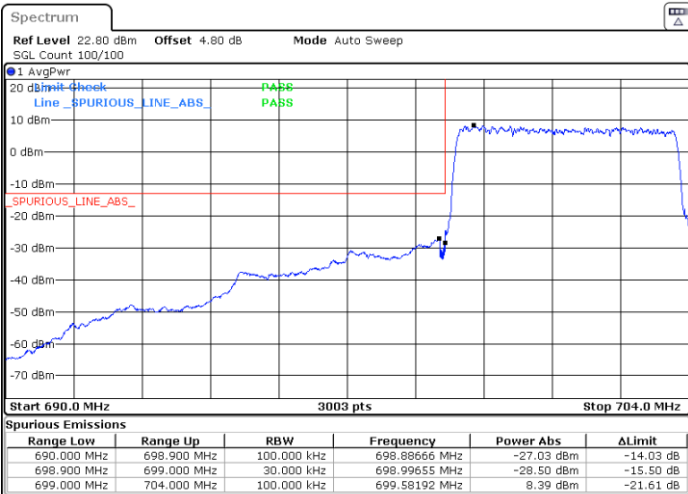
Date: 22 JUN 2022 09:22:17



Date: 22 JUN 2022 09:41:20

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22 JUN 2022 09:24:24



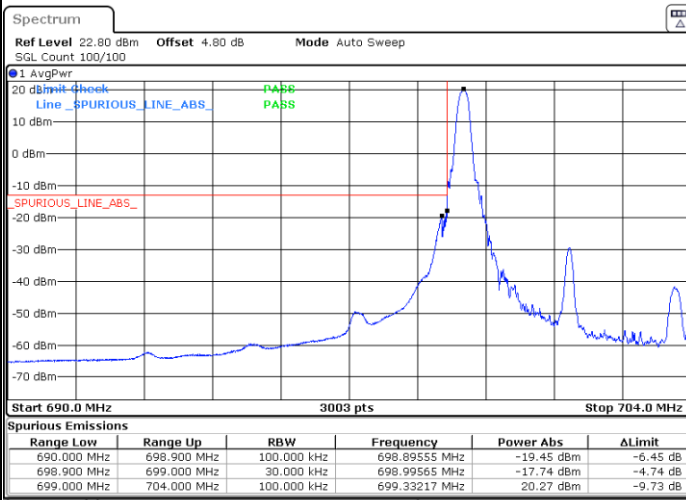
Date: 22 JUN 2022 09:37:26



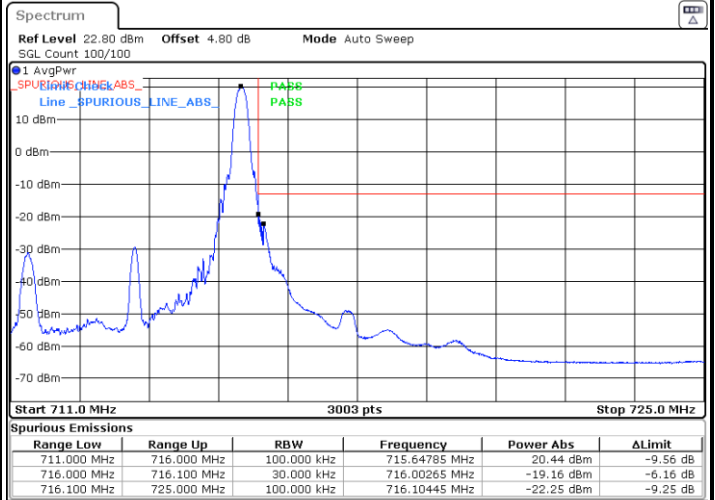
FR1 n12 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



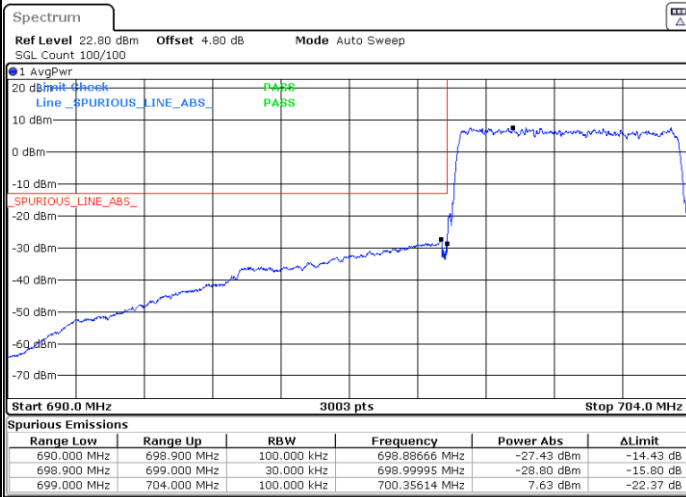
Date: 22 JUN 2022 09:14:32



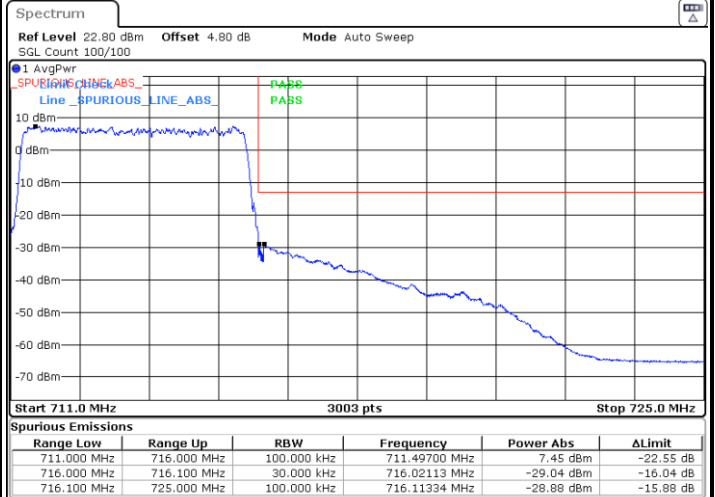
Date: 22 JUN 2022 09:40:31

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22 JUN 2022 09:25:07



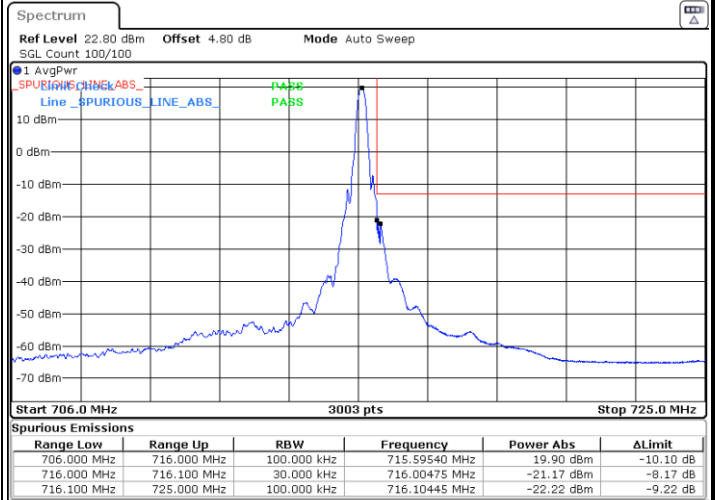
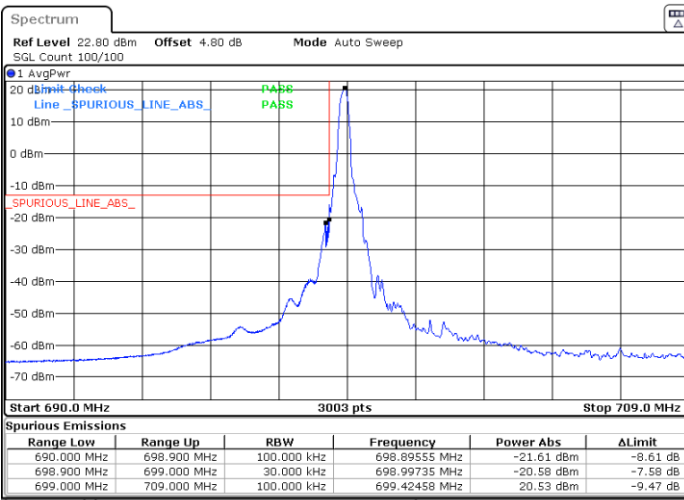
Date: 22 JUN 2022 09:38:24



FR1 n12 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

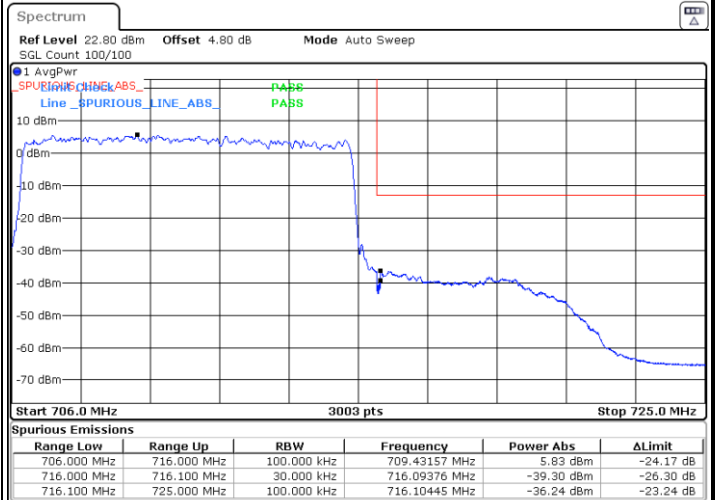
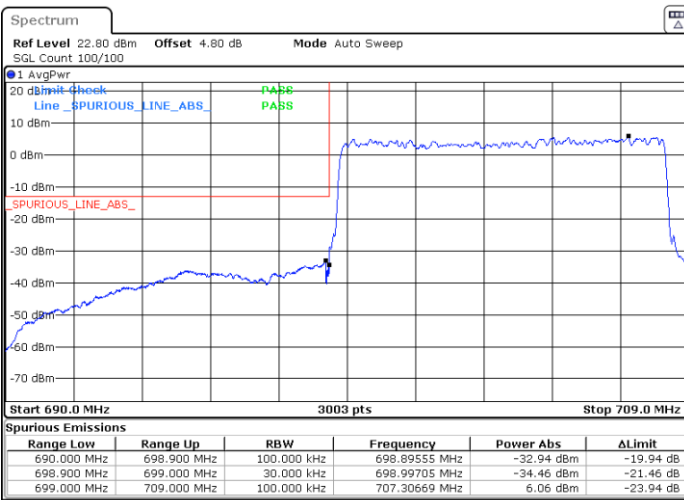


Date: 22 JUN 2022 09:45:25

Date: 22 JUN 2022 10:25:44

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22 JUN 2022 09:48:38

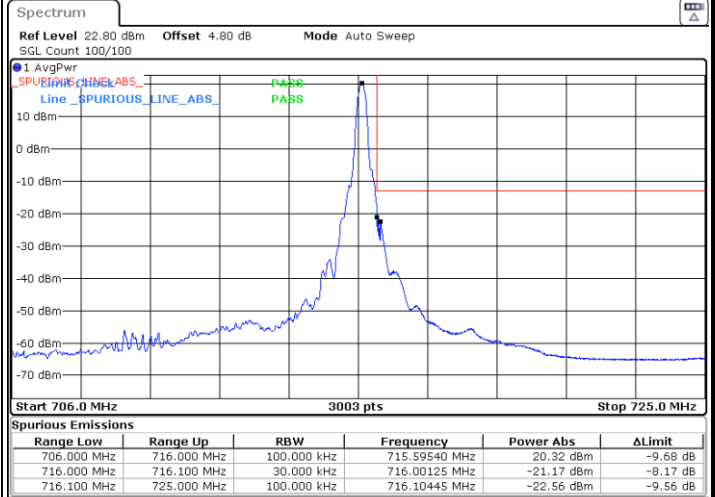
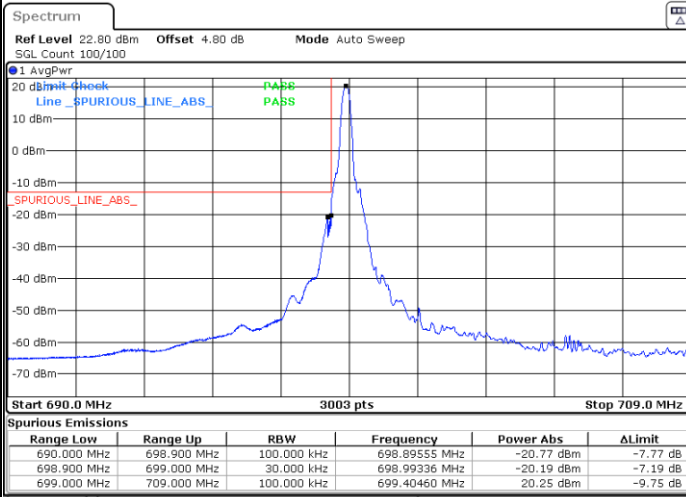
Date: 22 JUN 2022 10:28:51



FR1 n12 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

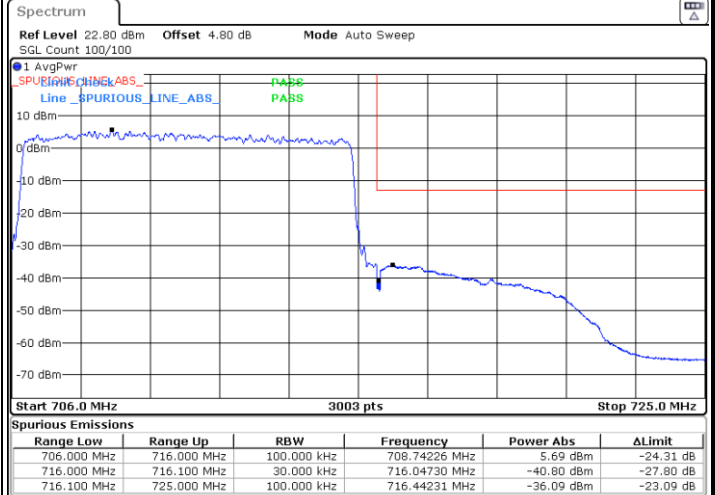
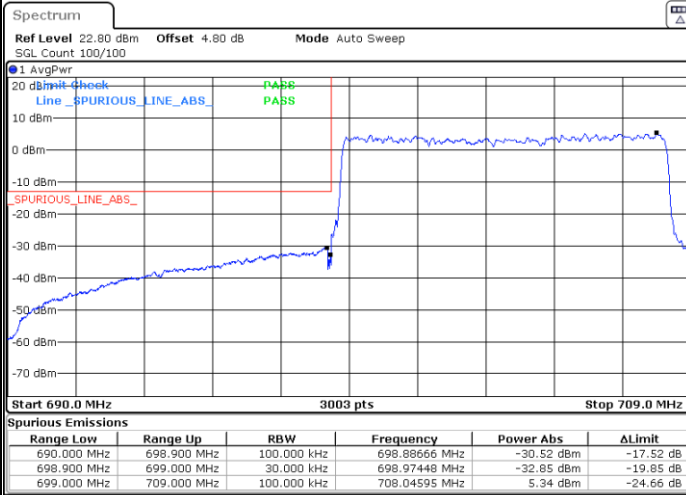


Date: 22 JUN 2022 09:46:23

Date: 22 JUN 2022 10:26:59

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22 JUN 2022 09:47:41

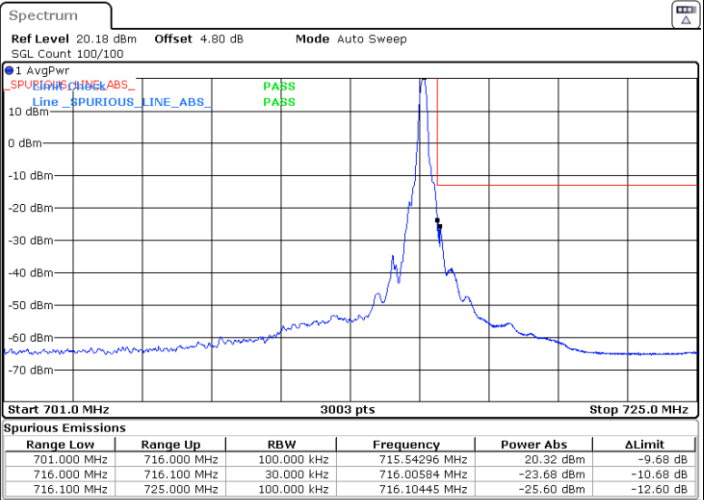
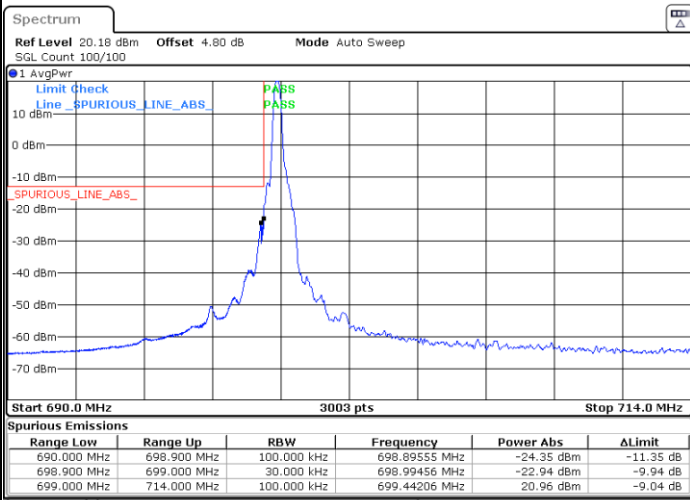
Date: 22 JUN 2022 10:27:59



FR1 n12 / 15MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

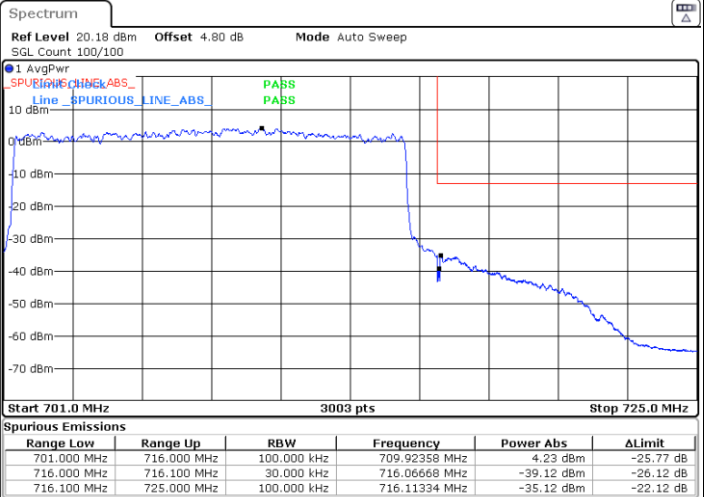
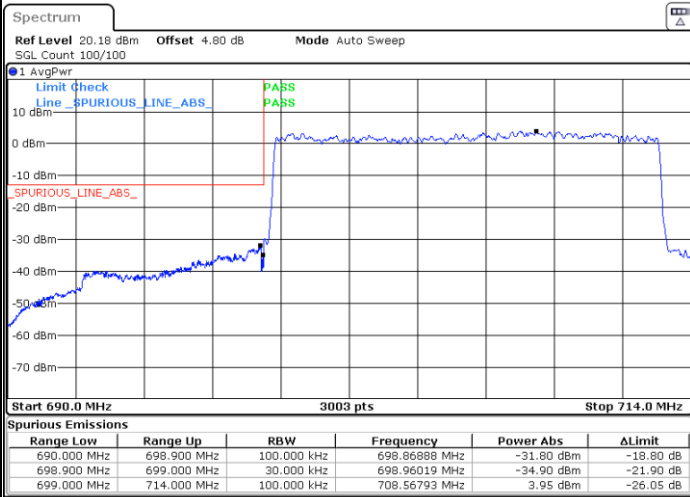


Date: 22 JUN 2022 10:40:29

Date: 22 JUN 2022 10:48:16

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22 JUN 2022 10:41:18

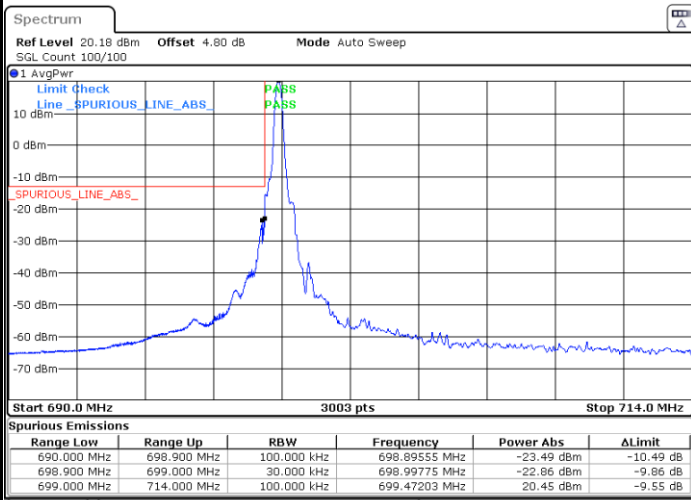
Date: 22 JUN 2022 10:45:08



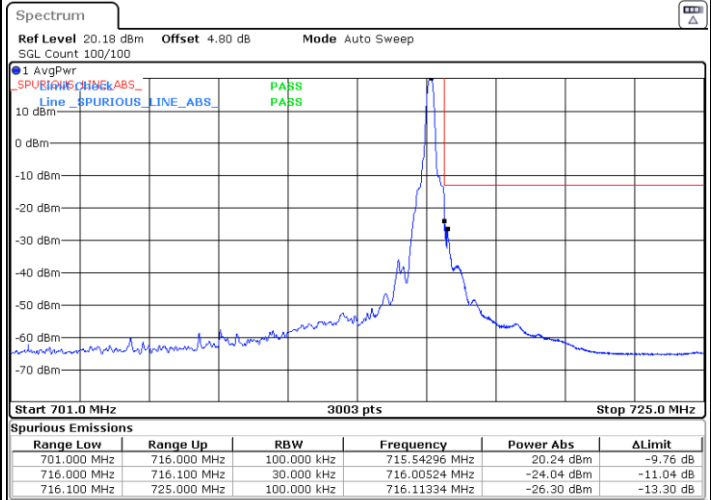
FR1 n12 / 15MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



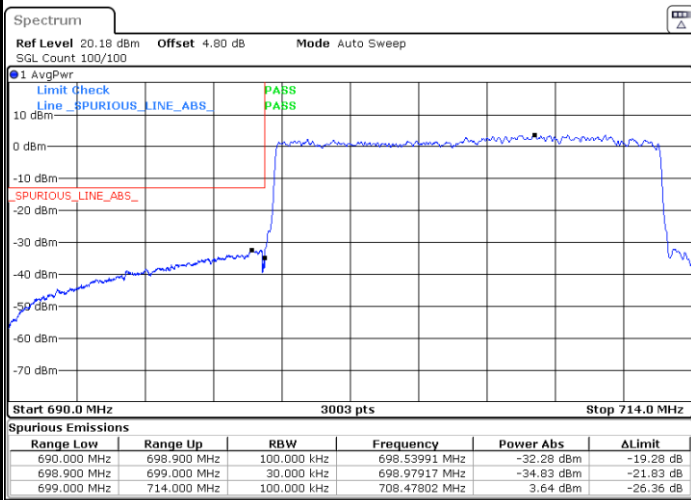
Date: 22 JUN 2022 10:39:29



Date: 22 JUN 2022 10:50:51

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22 JUN 2022 10:42:02



Date: 22 JUN 2022 10:44:15

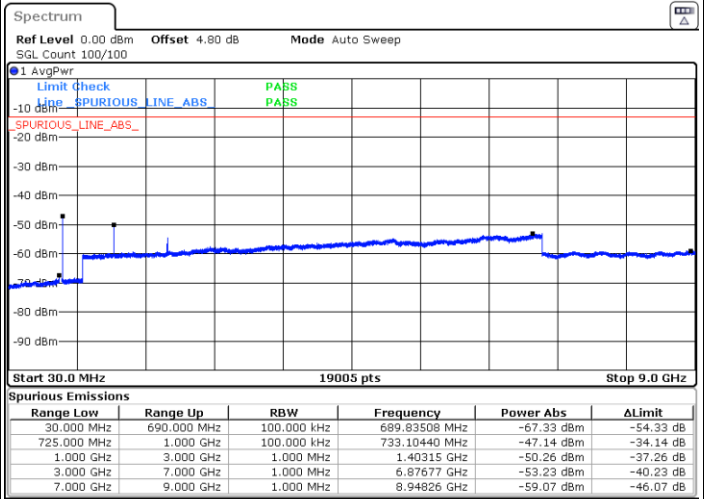
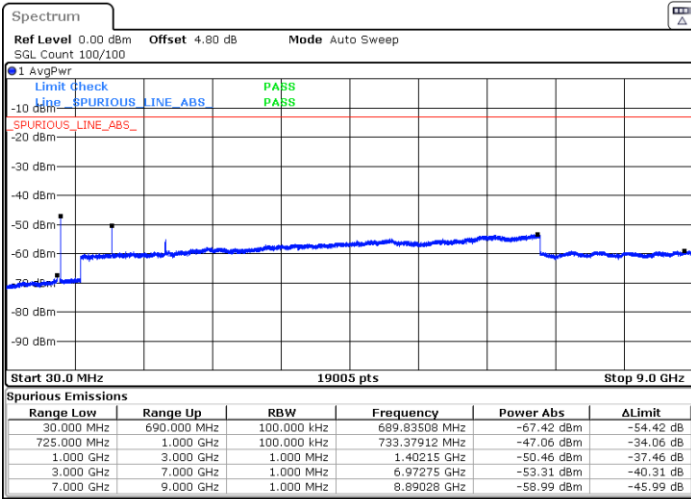


Conducted Spurious Emission

FR1 n12 / 5MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

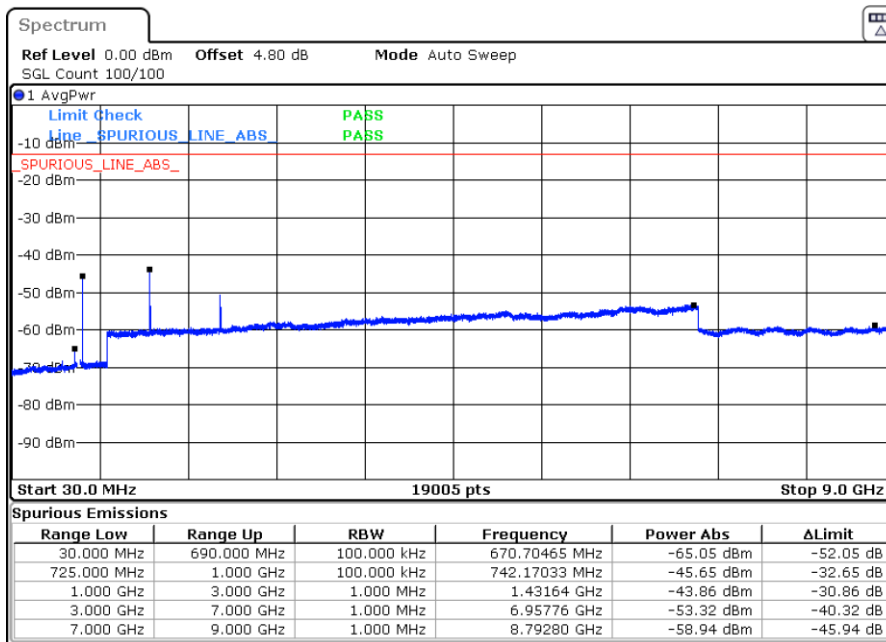
Middle Channel / 1RB1



Date: 22 JUN 2022 09:29:00

Date: 22 JUN 2022 09:29:44

Highest Channel / 1RB1



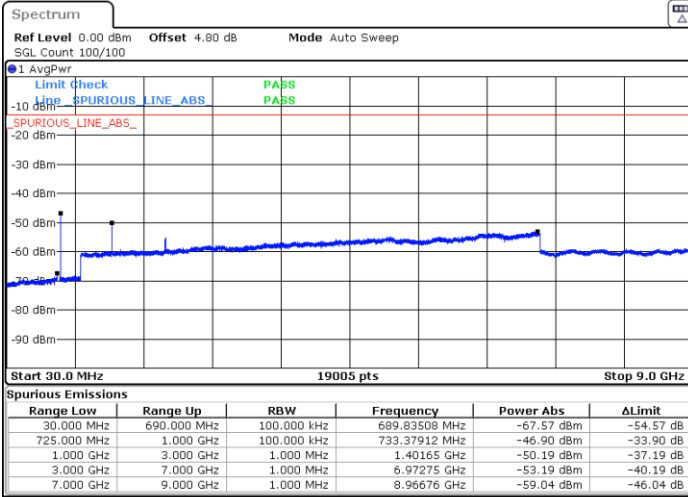
Date: 22 JUN 2022 09:42:04



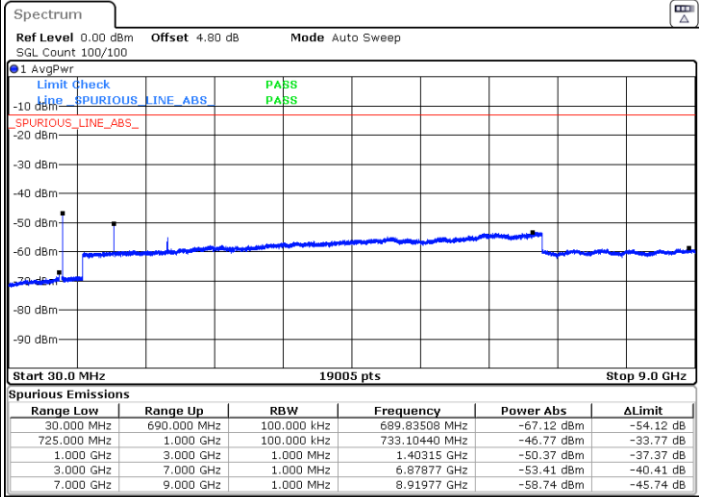
FR1 n12 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

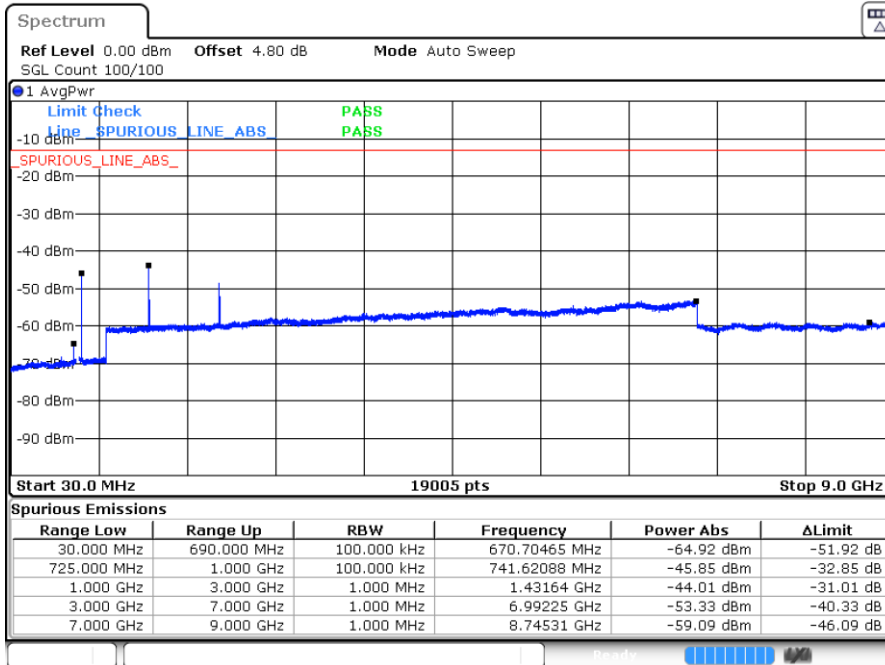


Date: 22 JUN 2022 09:27:52



Date: 22 JUN 2022 09:31:41

Highest Channel / 1RB1



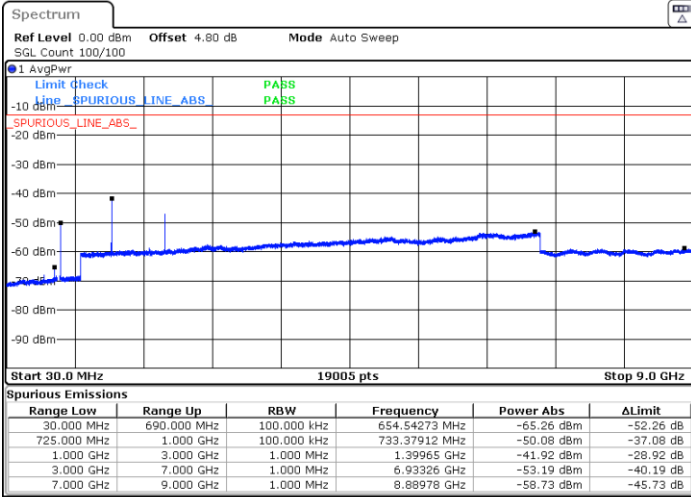
Date: 22 JUN 2022 09:43:32



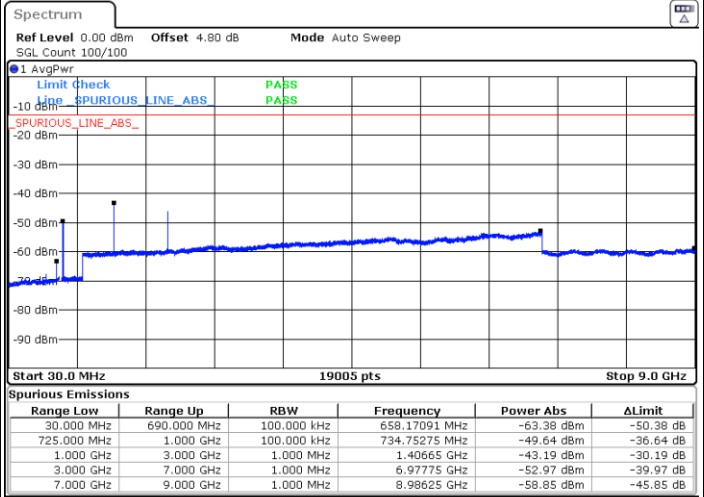
FR1 n12 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

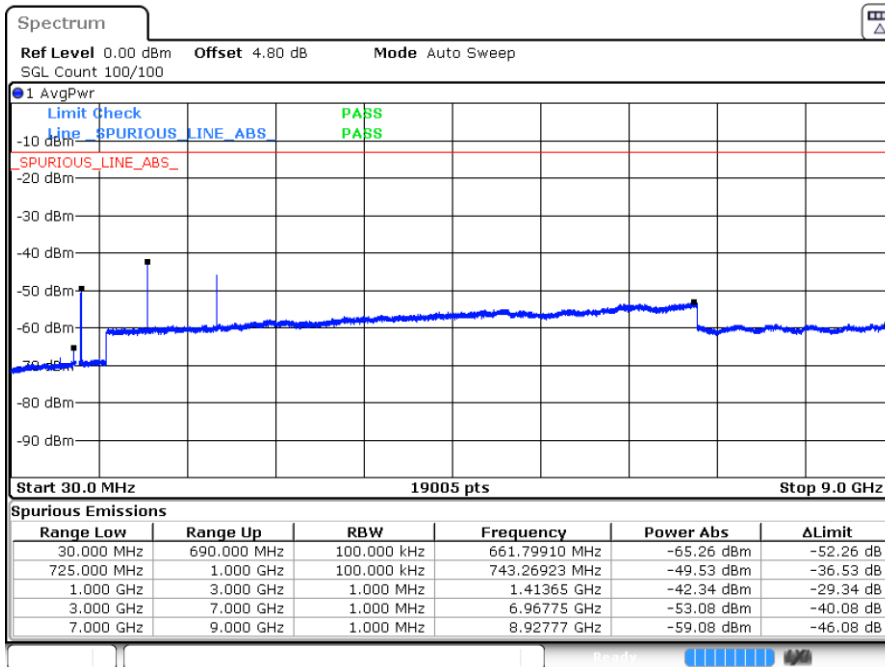


Date: 22 JUN 2022 09:49:19



Date: 22 JUN 2022 10:15:57

Highest Channel / 1RB1



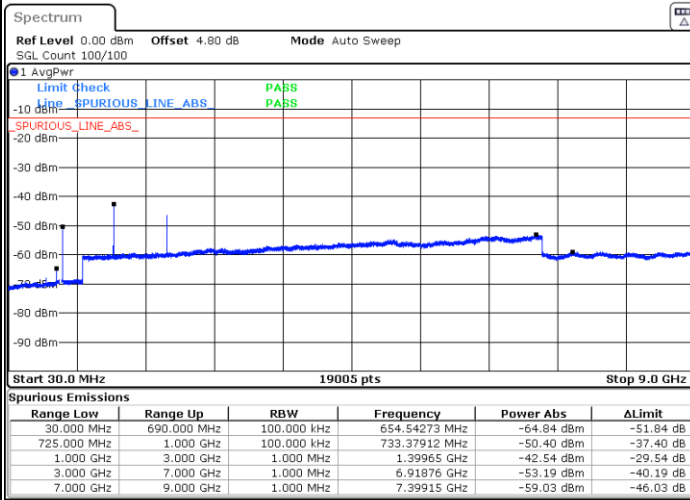
Date: 22 JUN 2022 10:23:19



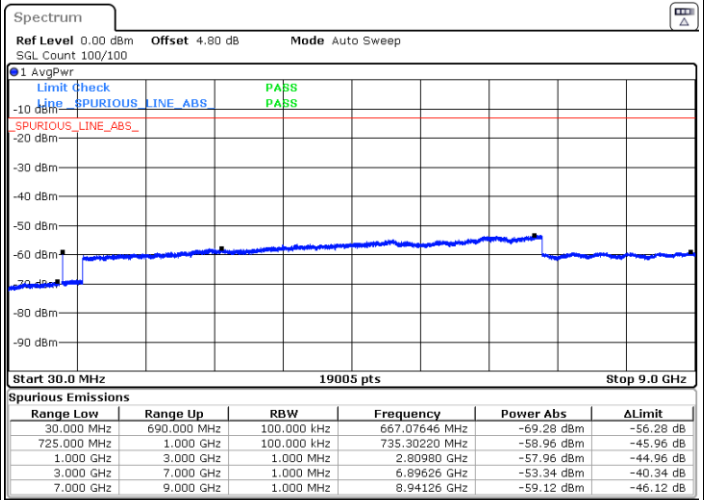
FR1 n12 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

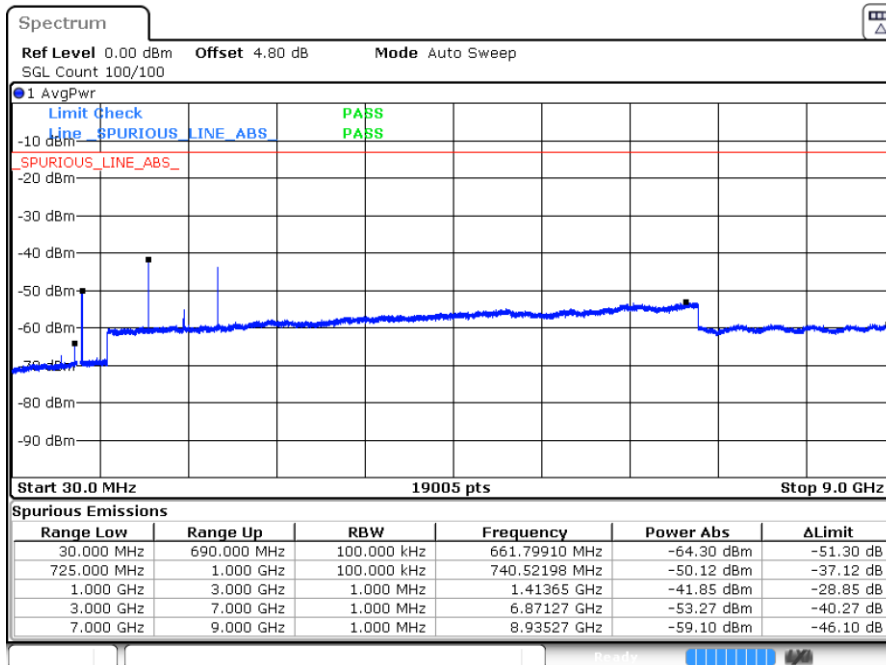


Date: 22 JUN 2022 09:50:04



Date: 22 JUN 2022 10:13:06

Highest Channel / 1RB1



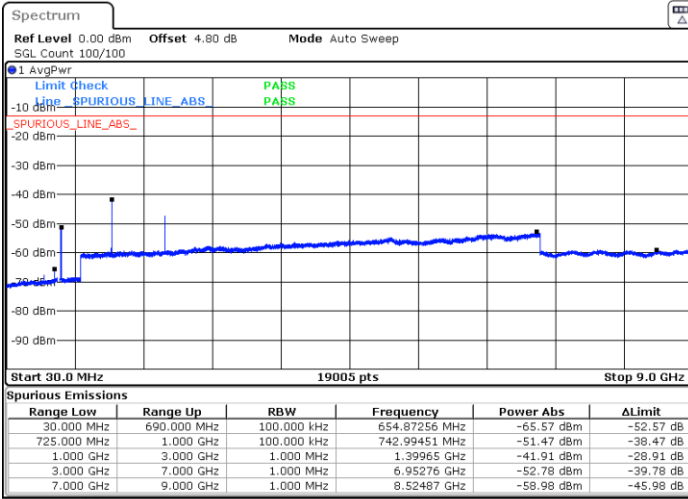
Date: 22 JUN 2022 10:24:37



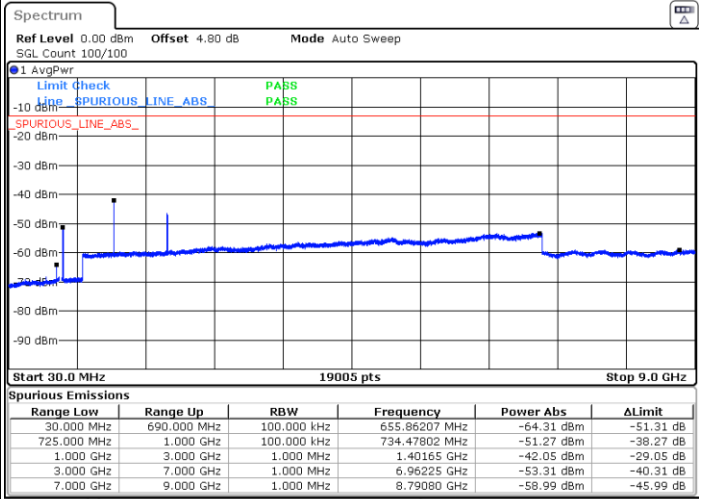
FR1 n12 / 15MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

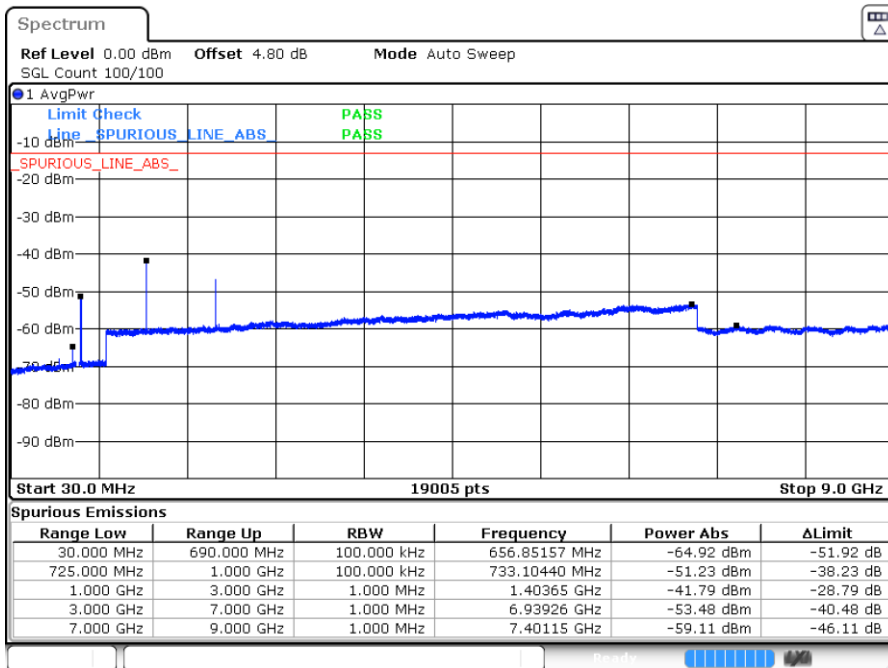


Date: 22 JUN 2022 10:38:07



Date: 22 JUN 2022 10:37:08

Highest Channel / 1RB1



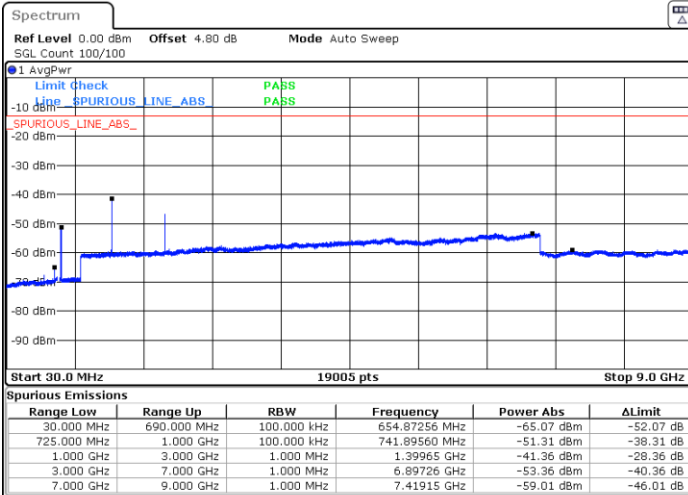
Date: 22 JUN 2022 11:12:10



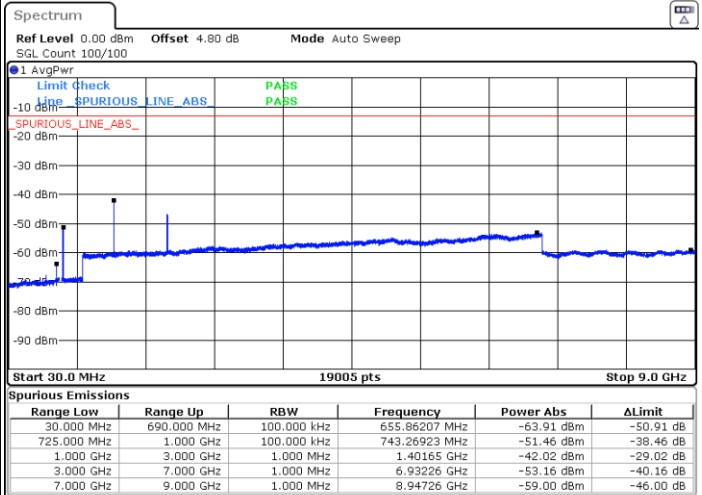
FR1 n12 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

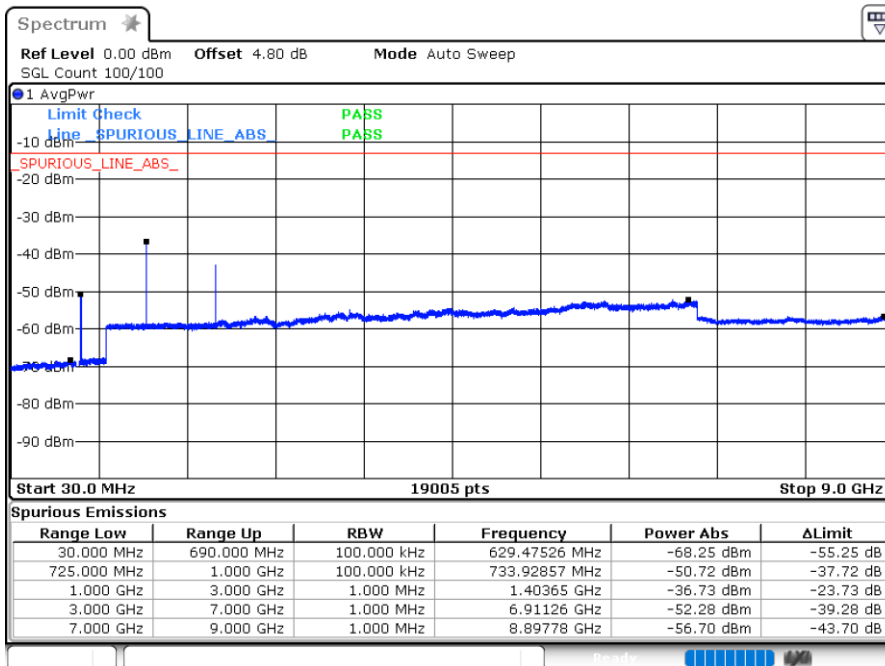


Date: 22 JUN 2022 10:38:46



Date: 22 JUN 2022 10:35:54

Highest Channel / 1RB1



Date: 23 JUN 2022 07:40:06



Frequency Stability

Test Conditions		FR1 n12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0038	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0028	
20	Maximum Voltage	0.0037	
20	Normal Voltage	0.0008	
20	Battery End Point	0.0021	

Note:

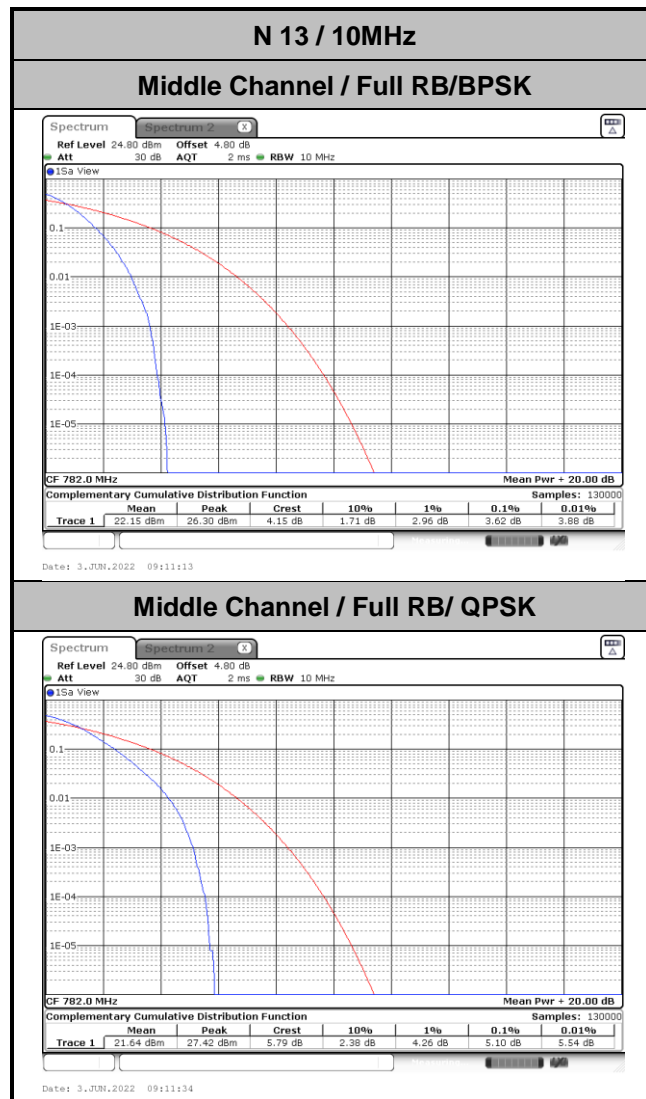
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.55 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



FR1 n13

Peak-to-Average Ratio

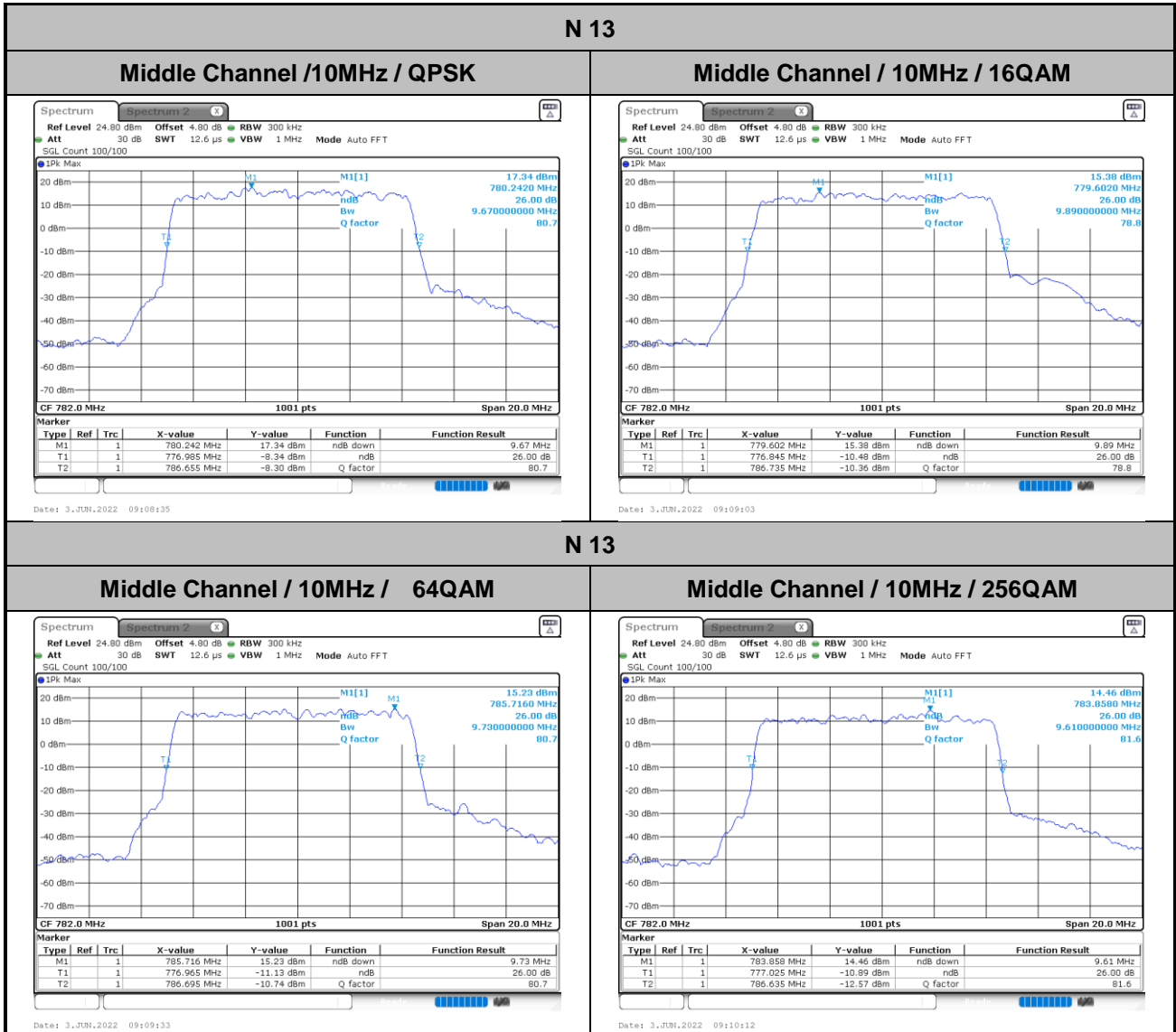
Mode	N 13 / 10MHz		
Mod.	BPSK	QPSK	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	3.62	5.10	PASS





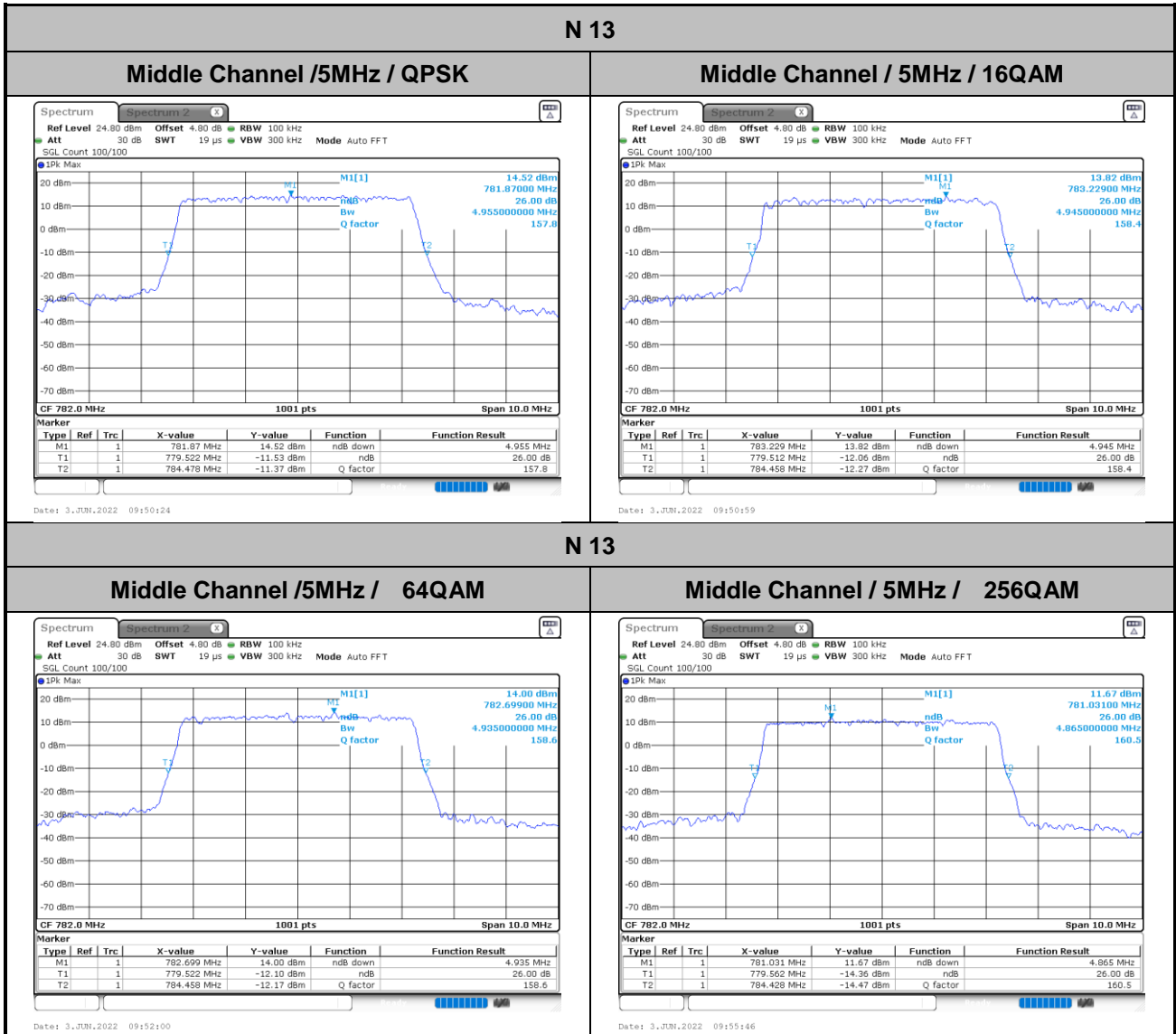
26dB Bandwidth

Mode	N 13 : 26dB BW(MHz)			
BW	10MHz			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	9.67	9.89	9.73	9.61





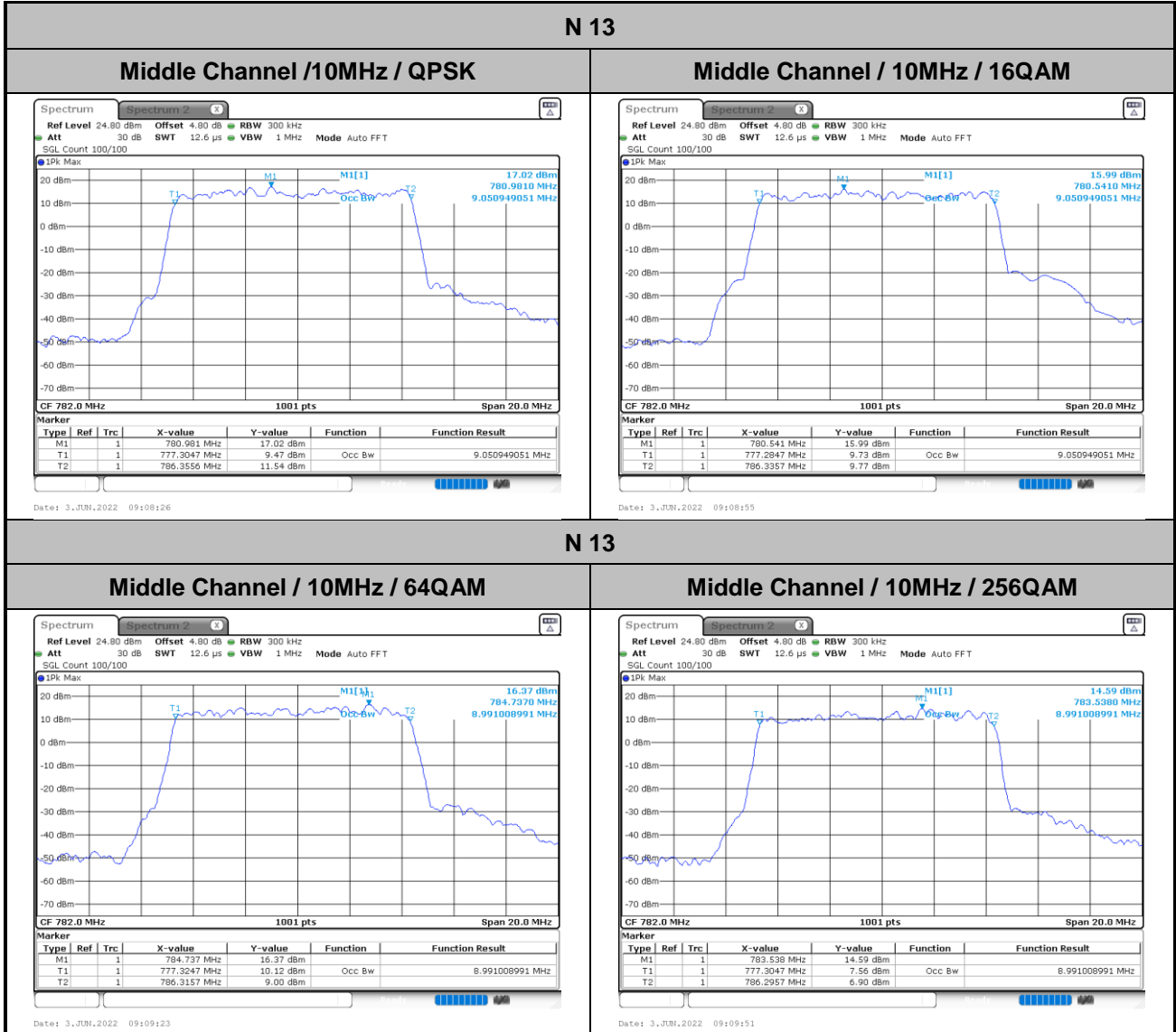
Mode	N 13 : 26dB BW(MHz)			
BW	5MHz			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	4.96	4.95	4.94	4.87





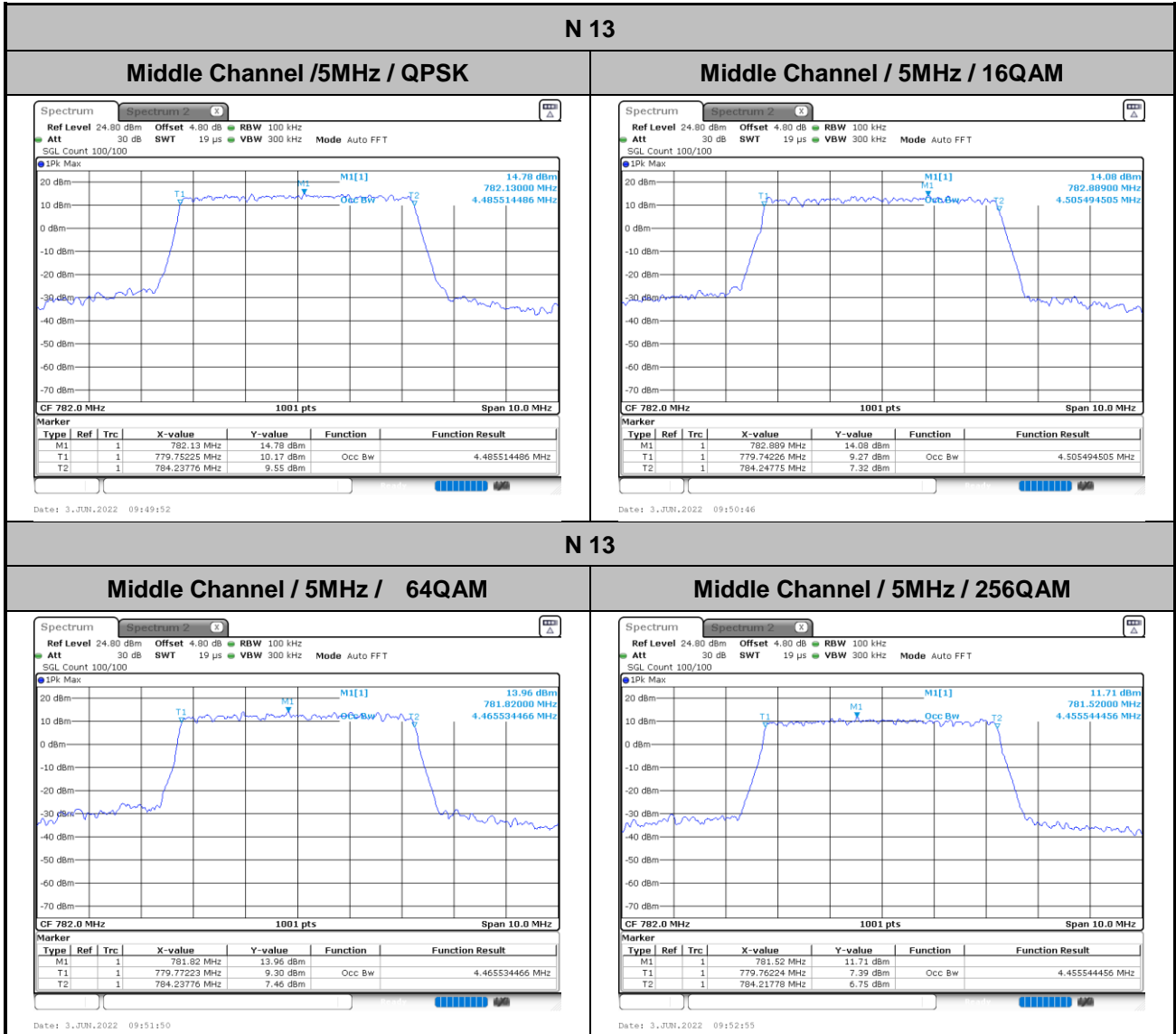
Occupied Bandwidth

Mode	N 13 : 99%OBW(MHz)			
BW	10MHz			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	9.05	9.05	8.99	8.99





Mode	N 13 : 99%OBW(MHz)			
BW	5MHz			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	4.49	4.51	4.47	4.46

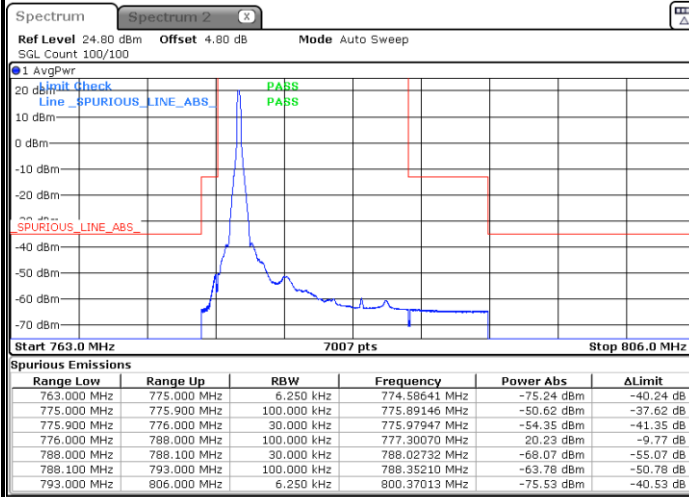




Conducted Band Edge

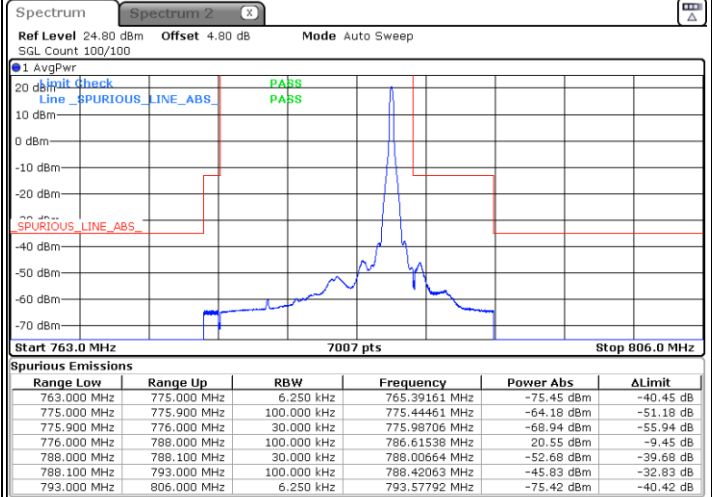
N 13 / 5MHz / BPSK

Lowest Band Edge / 1 RB



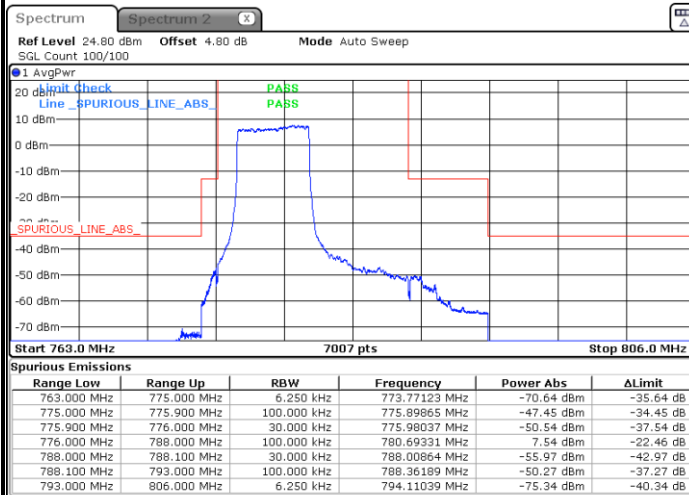
Date: 3.JUN.2022 09:18:33

Highest Band Edge / 1 RB



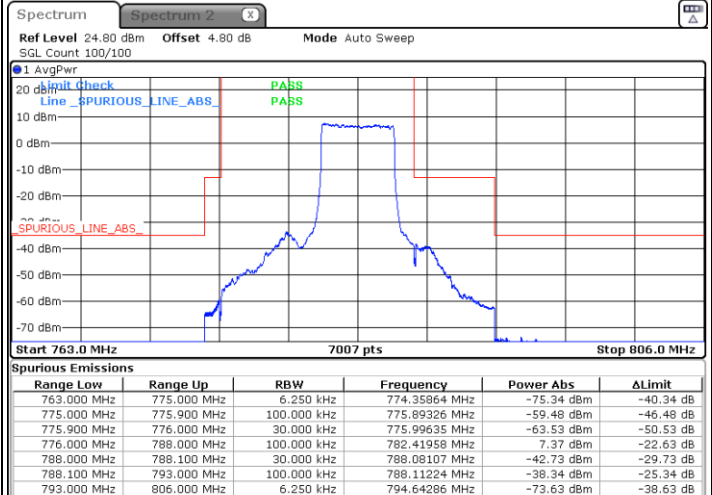
Date: 3.JUN.2022 09:37:53

Lowest Band Edge / Full RB



Date: 3.JUN.2022 09:26:06

Highest Band Edge / Full RB



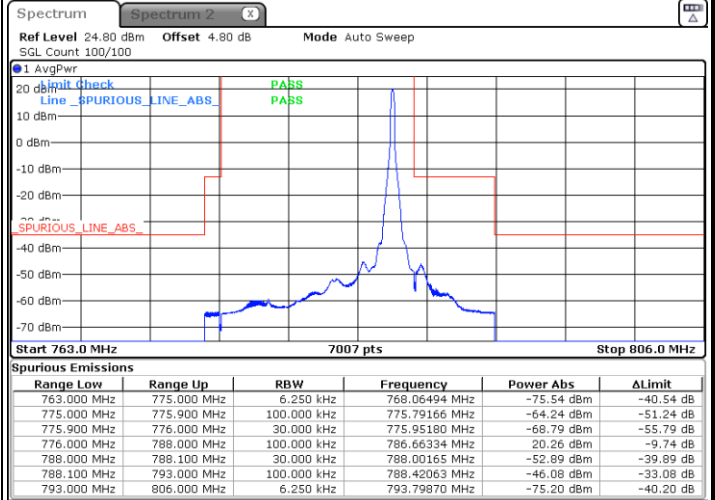
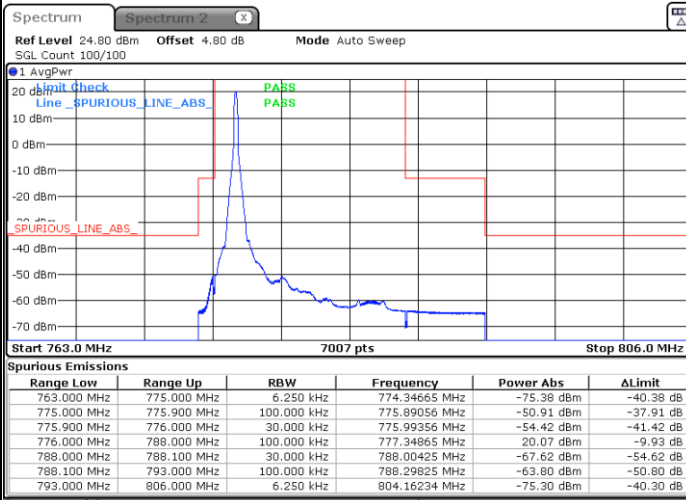
Date: 3.JUN.2022 09:31:03



N 13 / 5MHz / QPSK

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

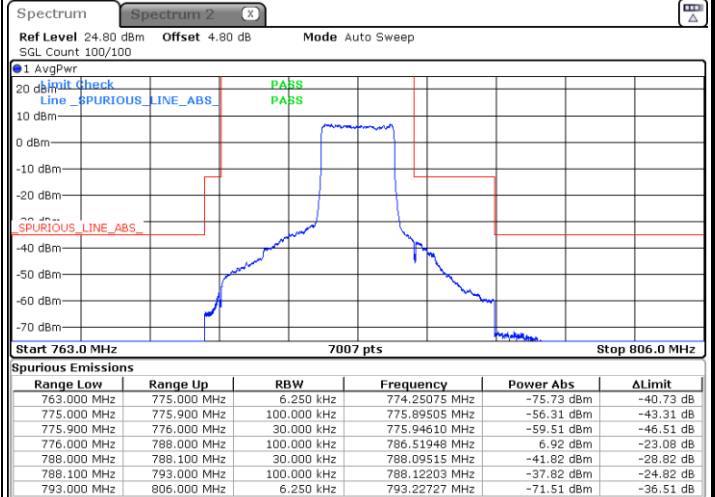
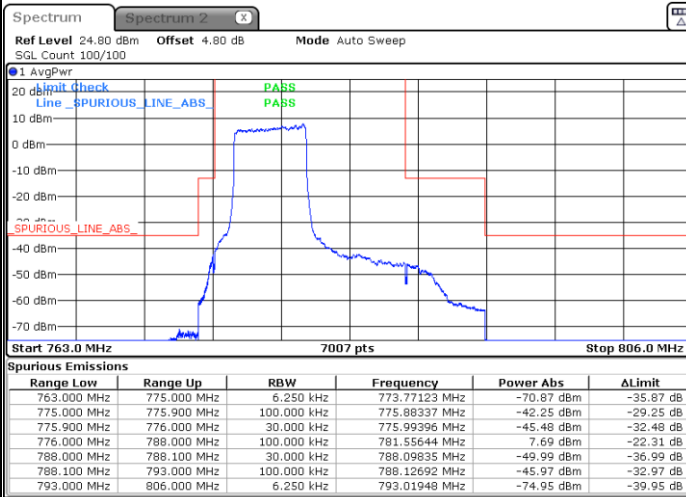


Date: 3 JUN, 2022 09:21:12

Date: 3 JUN, 2022 09:39:47

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3 JUN, 2022 09:28:09

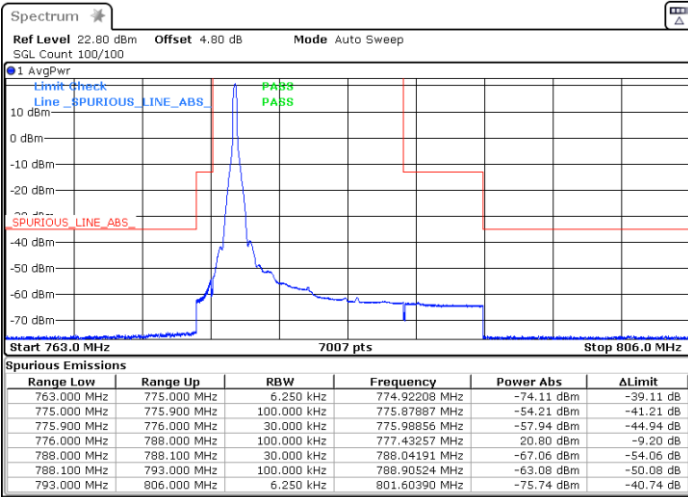
Date: 3 JUN, 2022 09:32:41



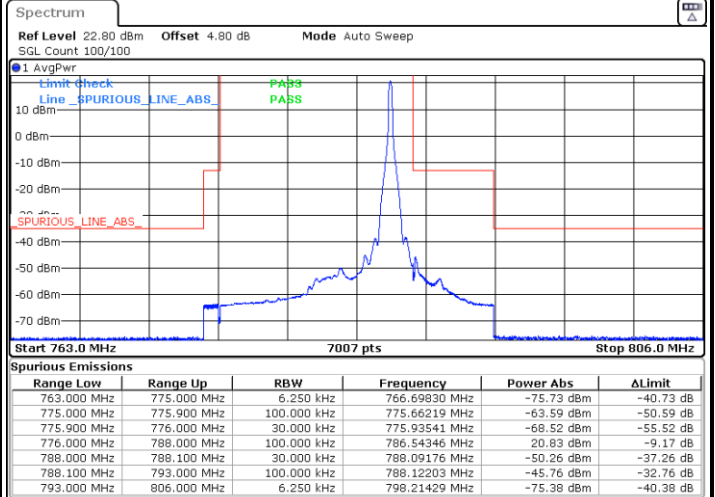
N 13 / 10MHz / BPSK

middle Band Edge / 1 RB

middle Band Edge / 1 RB

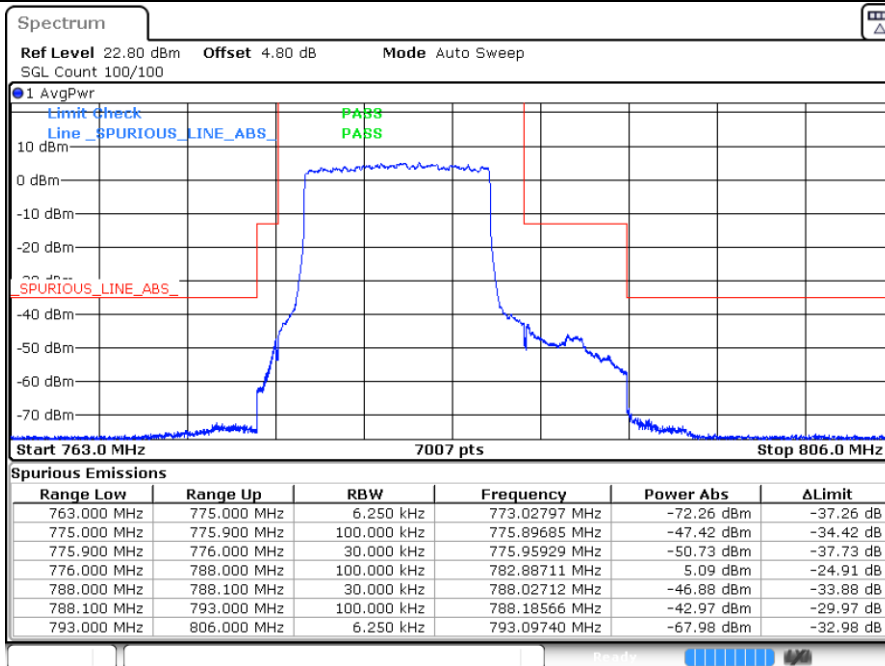


Date: 2 JUN 2022 17:48:12



Date: 2 JUN 2022 18:08:29

Middle Band Edge / Full RB

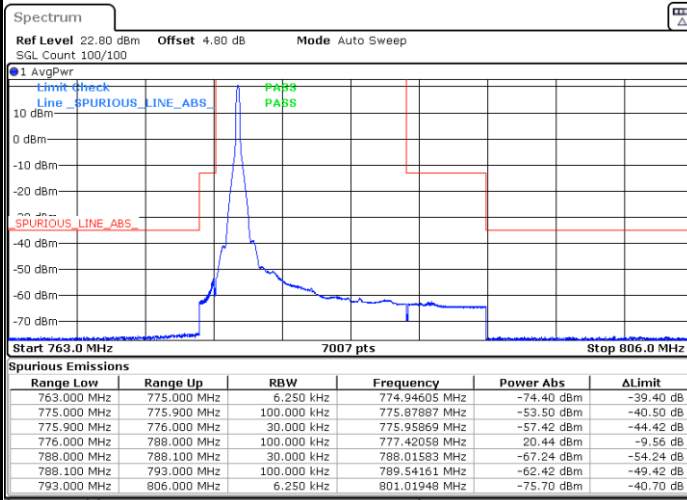


Date: 2 JUN 2022 18:09:55



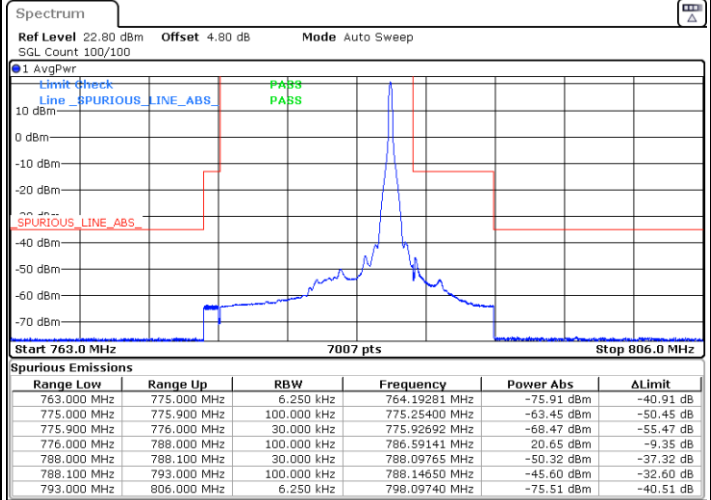
N 13 / 10MHz / QPSK

middle Band Edge / 1 RB



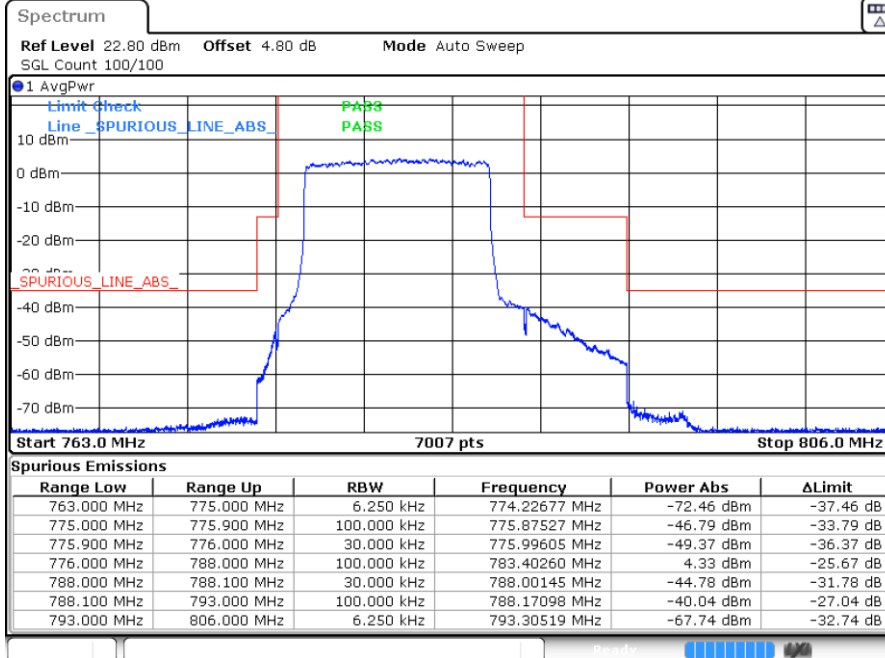
Date: 2 JUN 2022 17:52:11

middle Band Edge / 1 RB



Date: 2 JUN 2022 18:06:20

Middle Band Edge / Full RB



Date: 2 JUN 2022 18:11:13

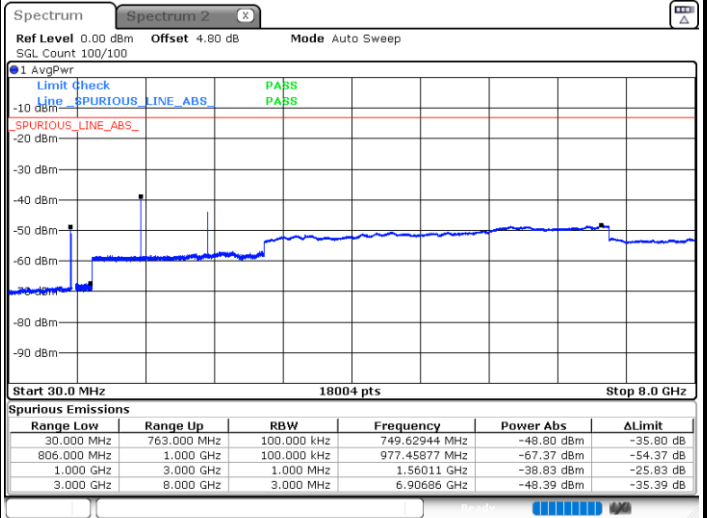
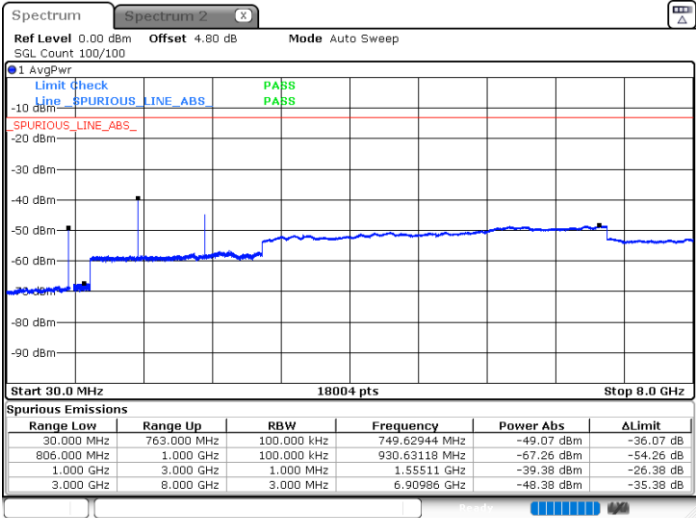


Conducted Spurious Emission

N 13 / 5MHz

Lowest Channel / BPSK

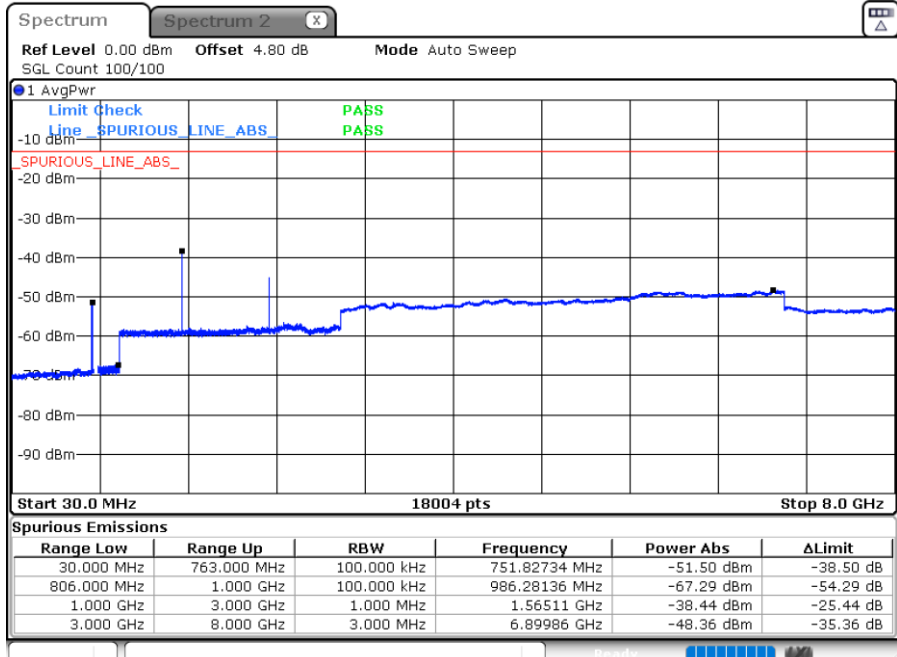
Middle Channel / BPSK



Date: 3.JUN.2022 09:46:09

Date: 3.JUN.2022 09:44:53

Highest Channel / BPSK



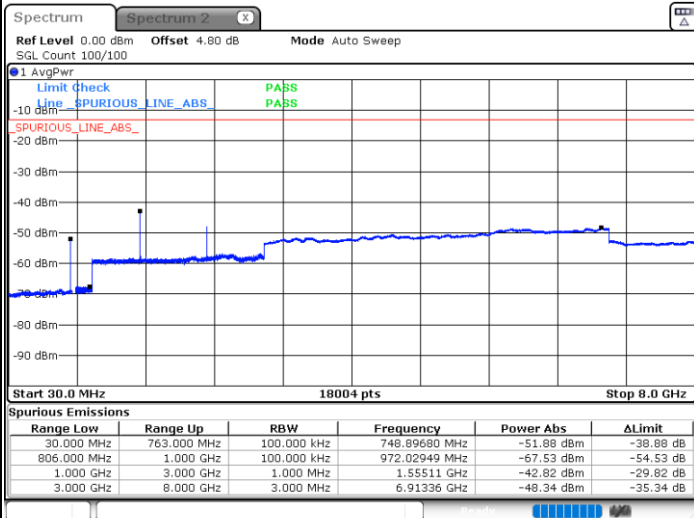
Date: 3.JUN.2022 09:40:44



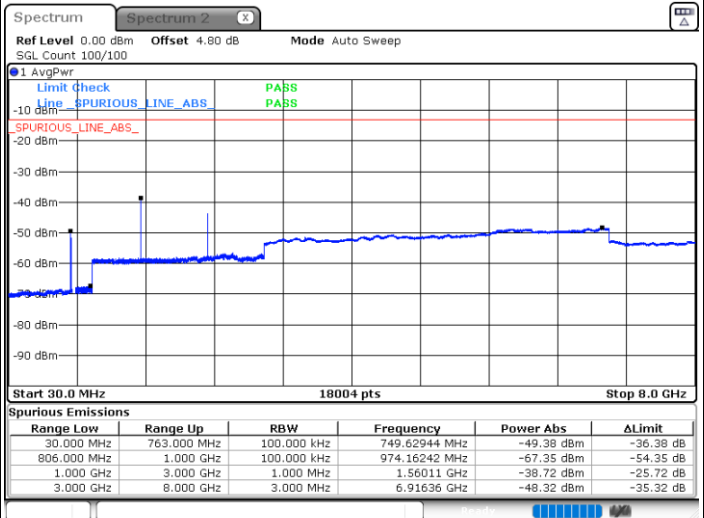
N 13 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

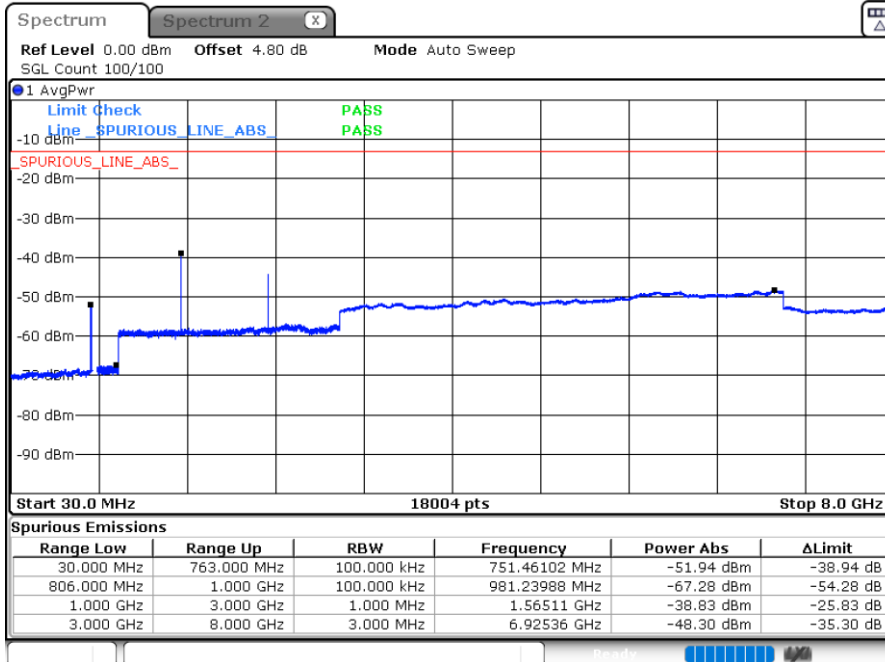


Date: 3.JUN.2022 09:46:45



Date: 3.JUN.2022 09:42:12

Highest Channel / QPSK

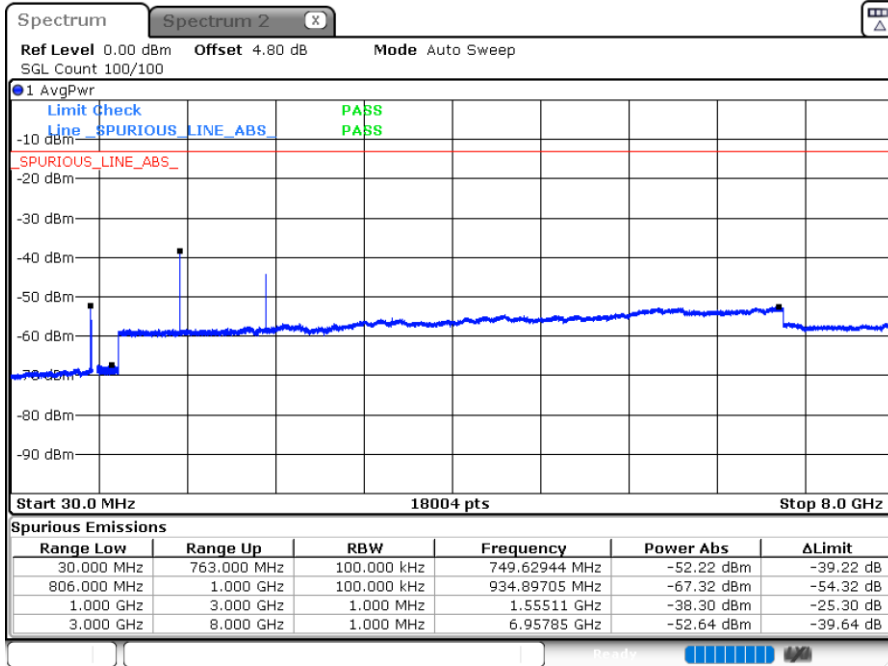


Date: 3.JUN.2022 09:41:16



N 13 / 10MHz

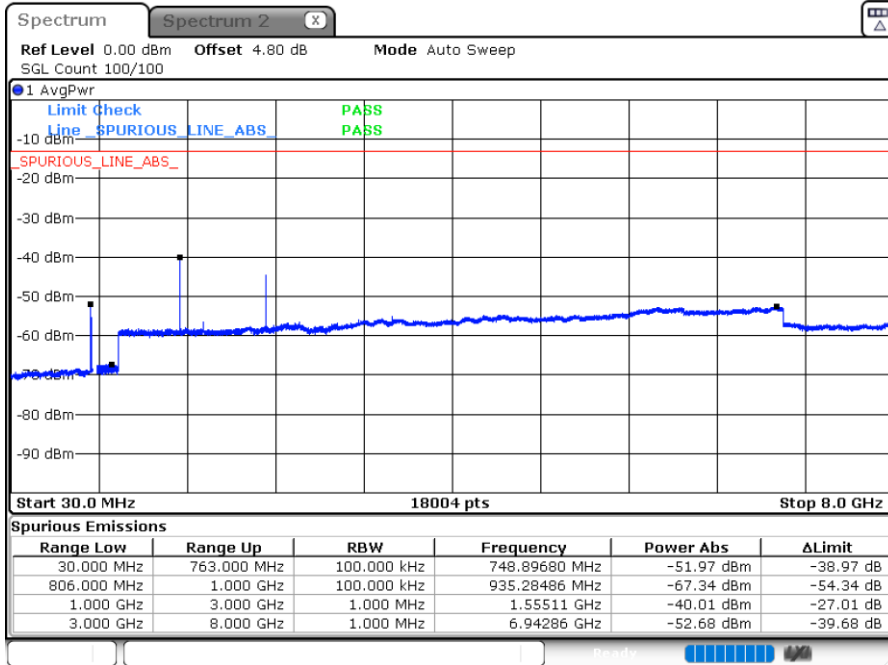
Middle Channel / BPSK



Date: 3.JUN.2022 09:15:19

N 13 / 10MHz

Middle Channel / QPSK



Date: 3.JUN.2022 09:13:57



Frequency Stability

Test Conditions		n13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0002	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.003	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0035	
20	Battery End Point	0.0005	

Note:

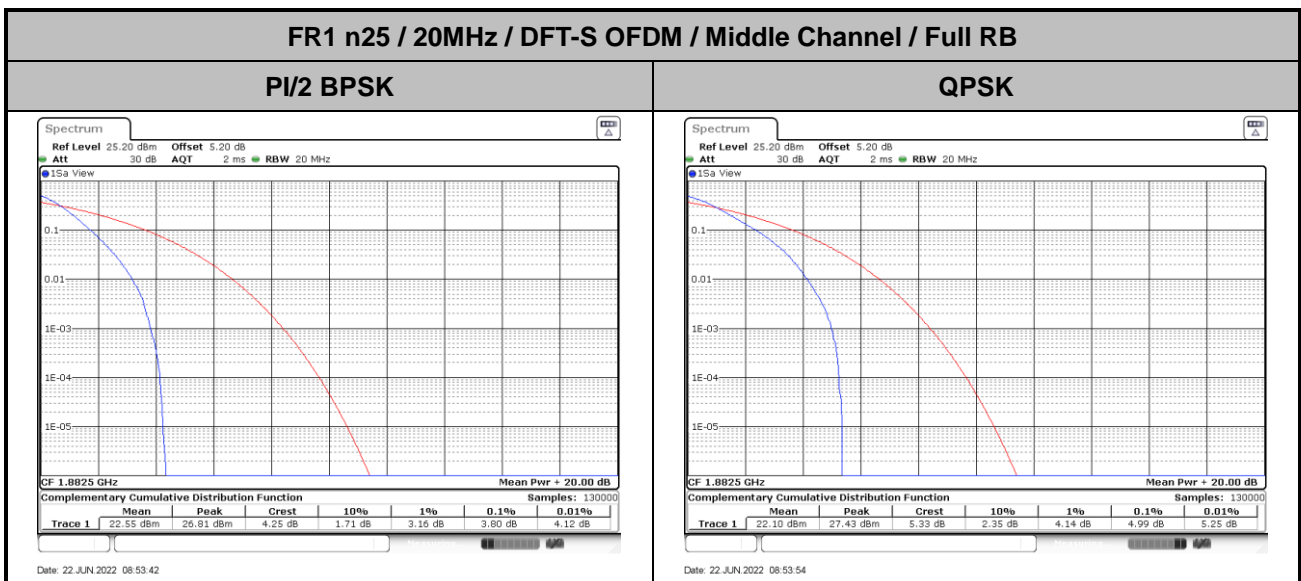
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.55 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



FR1 n25

Peak-to-Average Ratio

Mode	FR1 n25 / 20MHz / DFT-S OFDM		
Mod.	PI/2 BPSK	QPSK	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	3.80	4.99	PASS





26dB Bandwidth

Mode	FR1 n25 : 26dBW (MHz) / DFT OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.99	4.88	10.11	10.05	14.96	14.90	21.14	21.22
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.86	4.87	10.01	10.19	14.99	14.99	21.50	21.18

