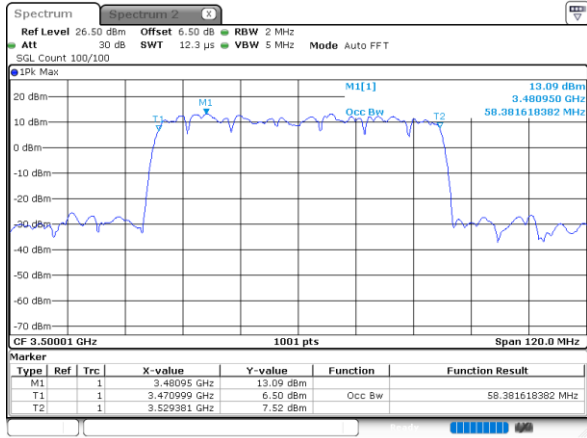




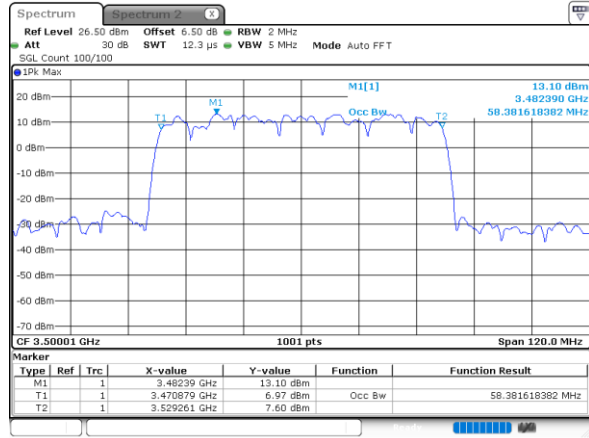
60MHz CP

QPSK



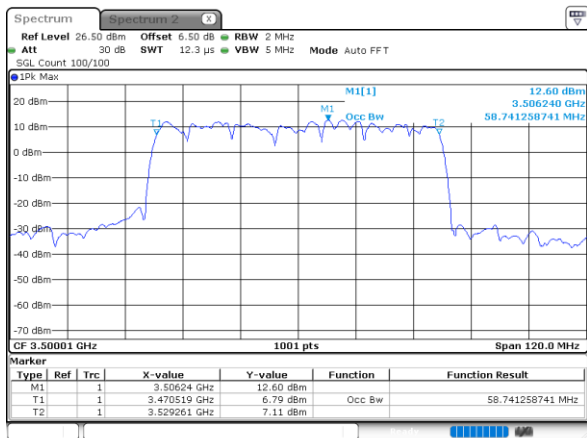
Date: 23. DEC. 2022 02:31:32

16QAM



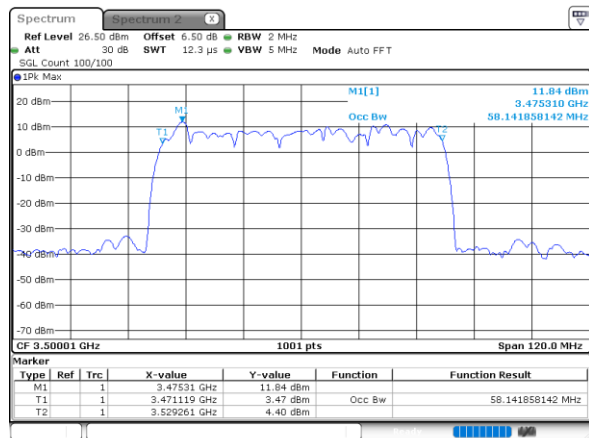
Date: 23. DEC. 2022 02:31:15

64QAM



Date: 23. DEC. 2022 02:30:58

256QAM

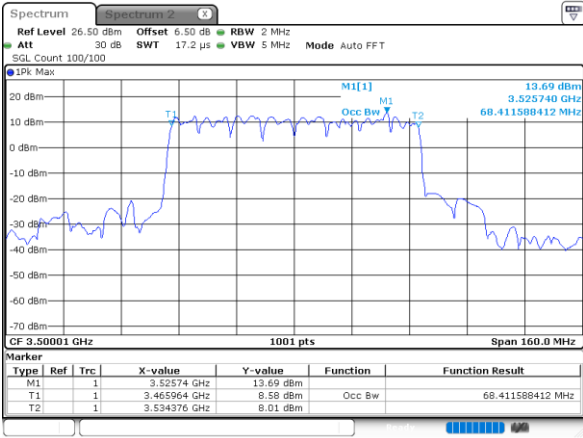


Date: 23. DEC. 2022 02:30:29



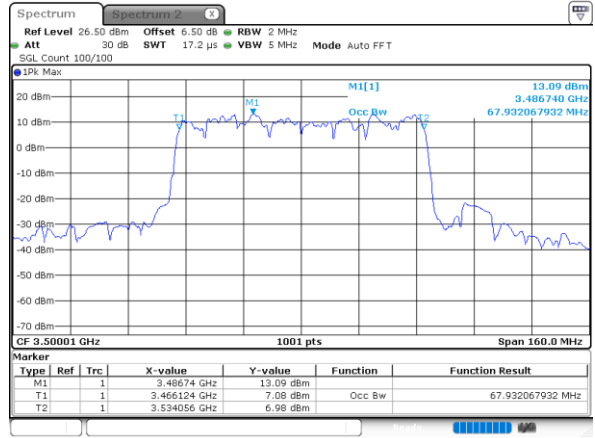
70MHz CP

QPSK



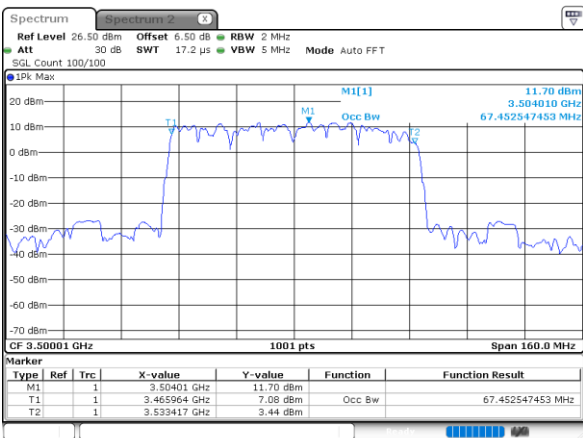
Date: 23. DEC. 2022 02:28:48

16QAM



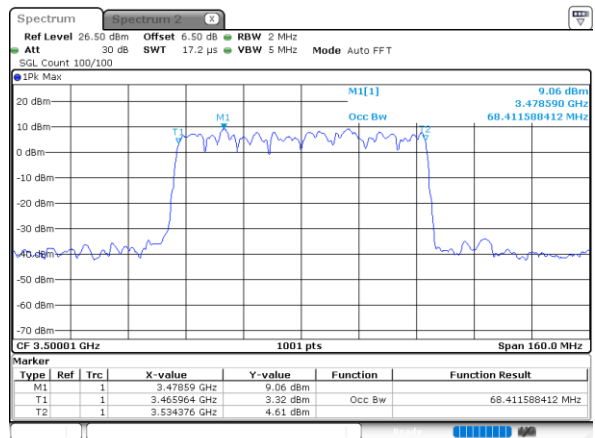
Date: 23. DEC. 2022 02:29:07

64QAM



Date: 23. DEC. 2022 02:29:26

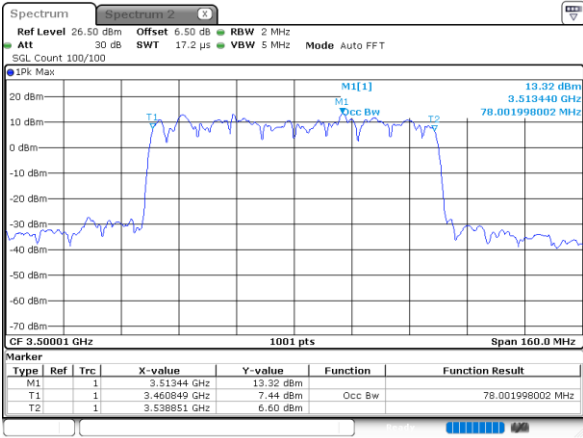
256QAM



Date: 23. DEC. 2022 02:29:45

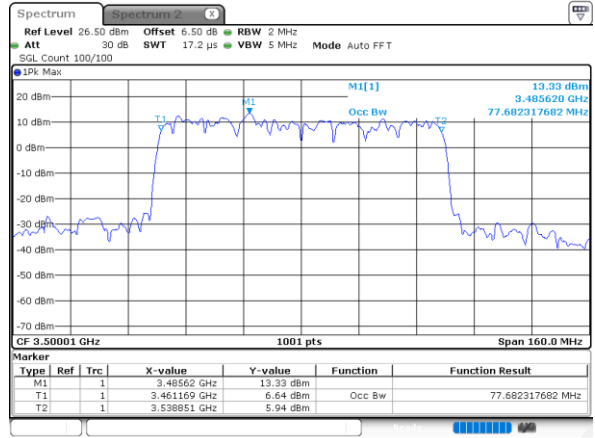
80MHz CP

QPSK



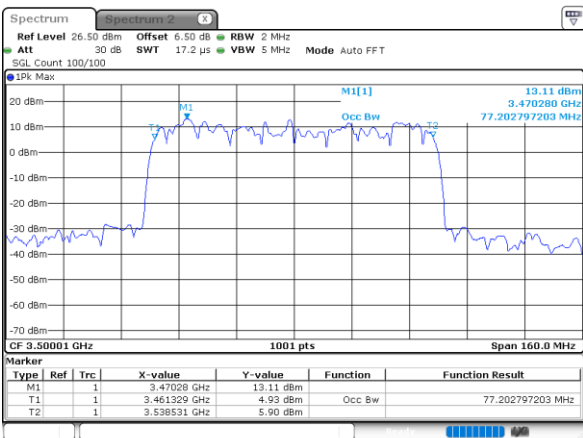
Date: 23. DEC. 2022 02:28:21

16QAM



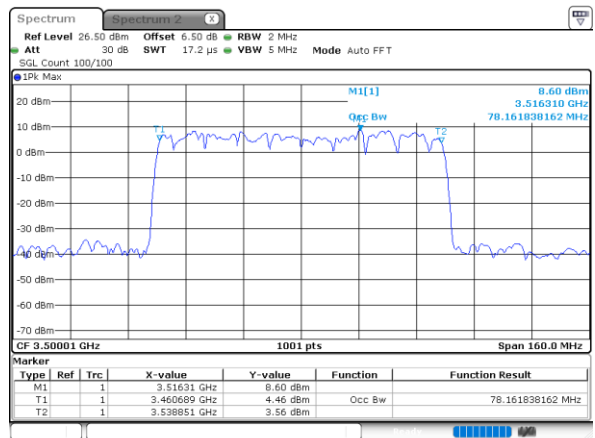
Date: 23. DEC. 2022 02:27:49

64QAM



Date: 23. DEC. 2022 02:27:27

256QAM

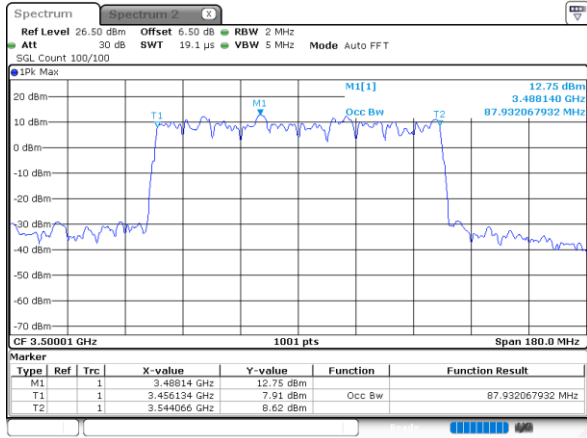


Date: 23. DEC. 2022 02:27:08



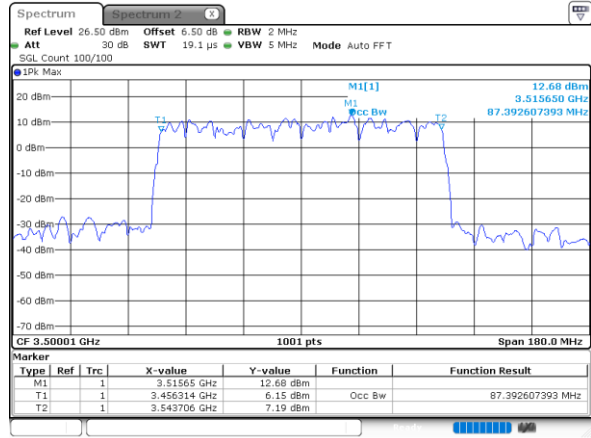
90MHz CP

QPSK



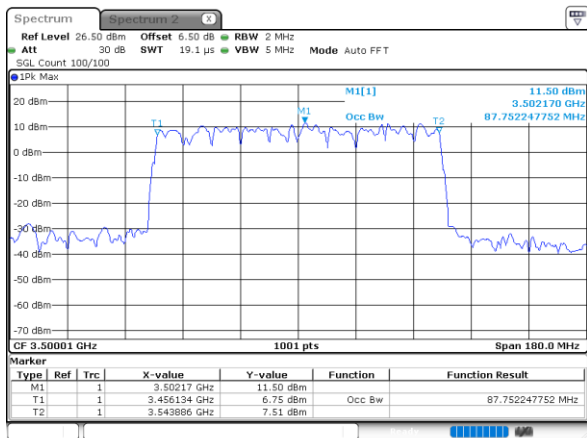
Date: 23. DEC. 2022 02:25:05

16QAM



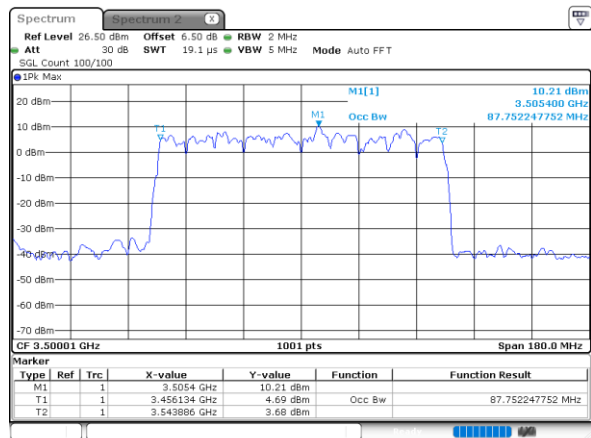
Date: 23. DEC. 2022 02:25:135

64QAM



Date: 23. DEC. 2022 02:26:00

256QAM

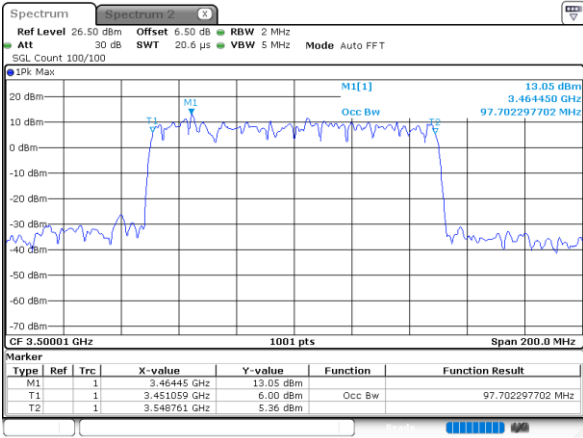


Date: 23. DEC. 2022 02:26:126



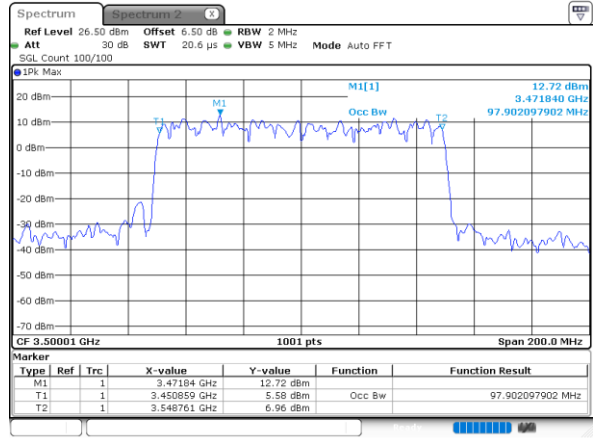
100MHz CP

QPSK



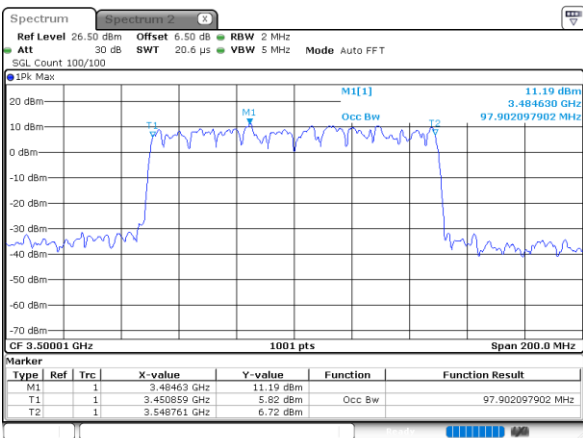
Date: 23.DEC.2022 01:50:13

16QAM



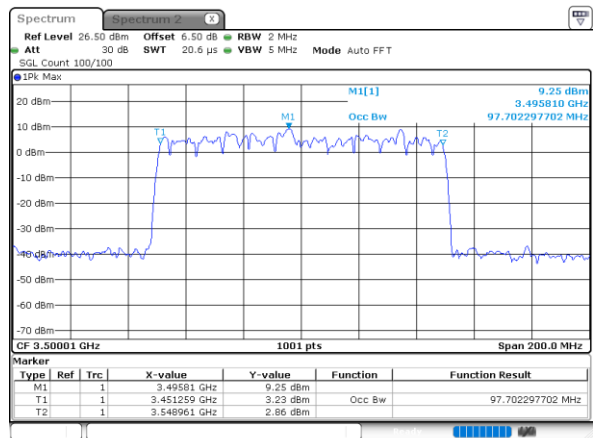
Date: 23.DEC.2022 01:50:139

64QAM



Date: 23.DEC.2022 01:51:01

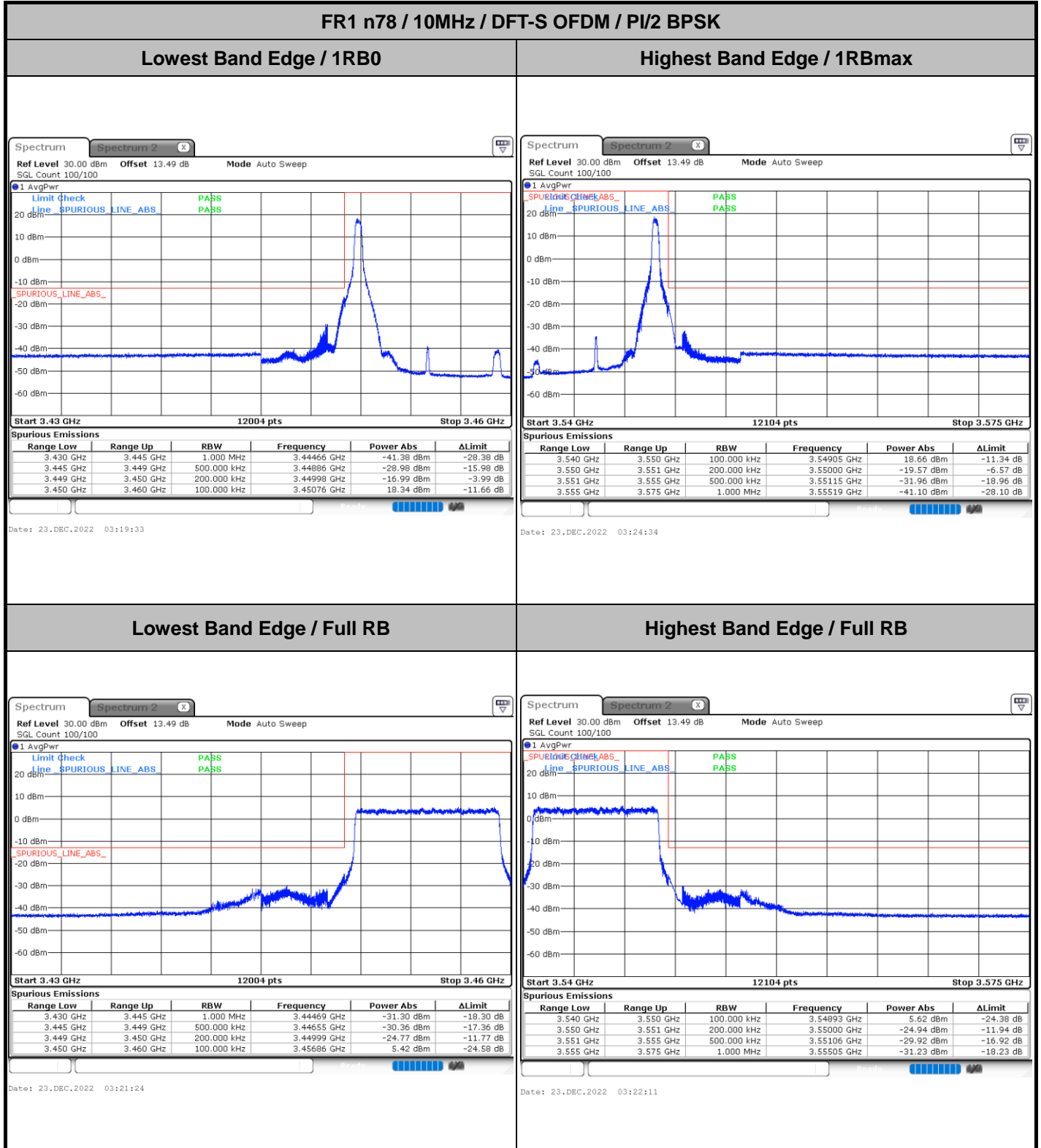
256QAM



Date: 23.DEC.2022 01:51:23



# Conducted Band Edge

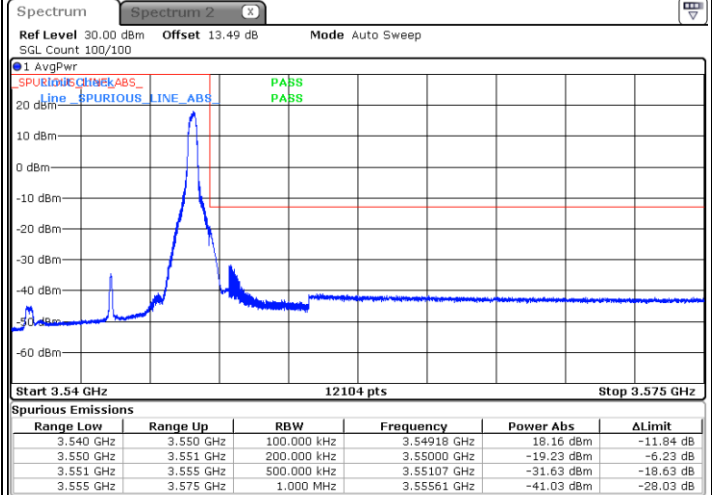
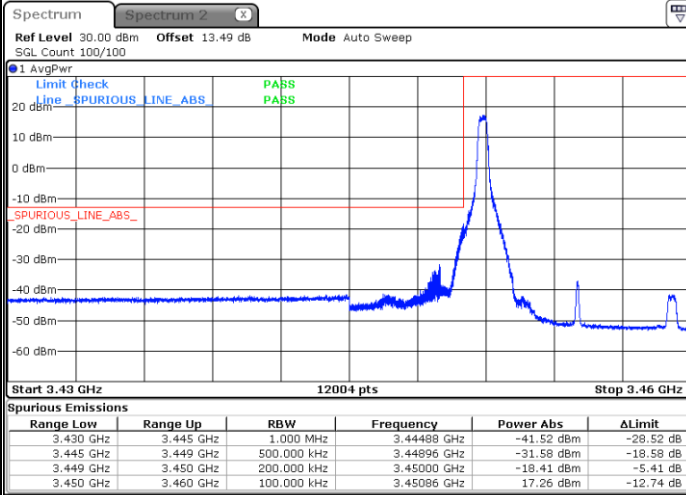




FR1 n78 / 10MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

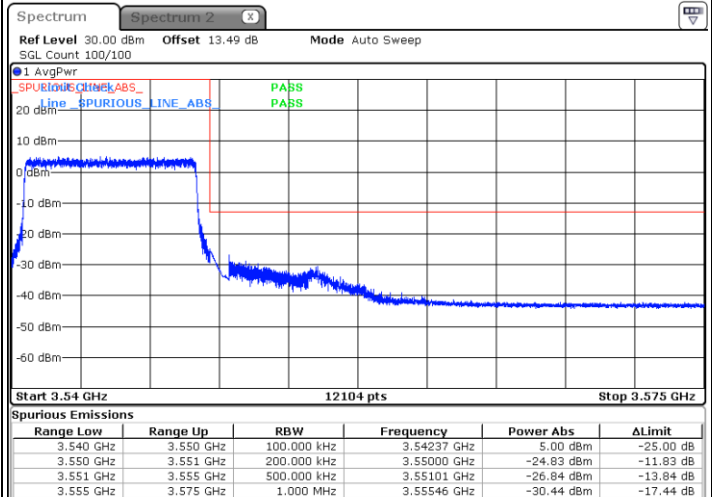
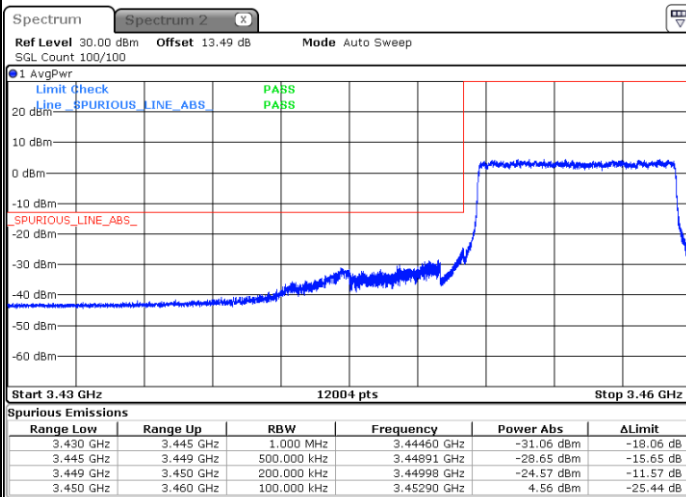


Date: 23.DEC.2022 03:20:11

Date: 23.DEC.2022 03:23:47

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 23.DEC.2022 03:20:48

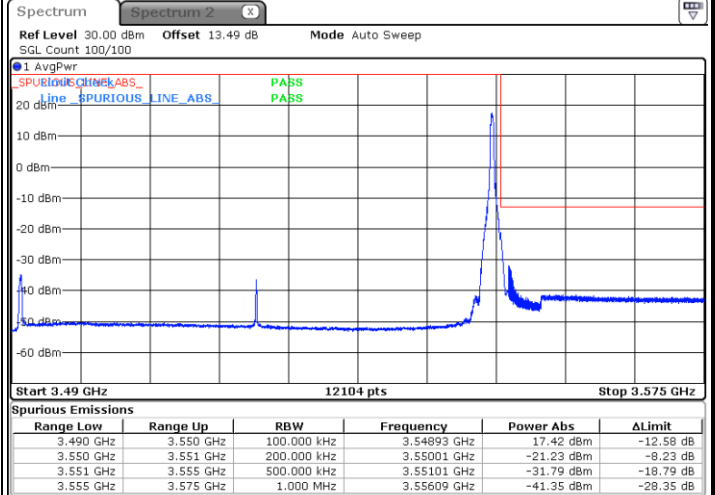
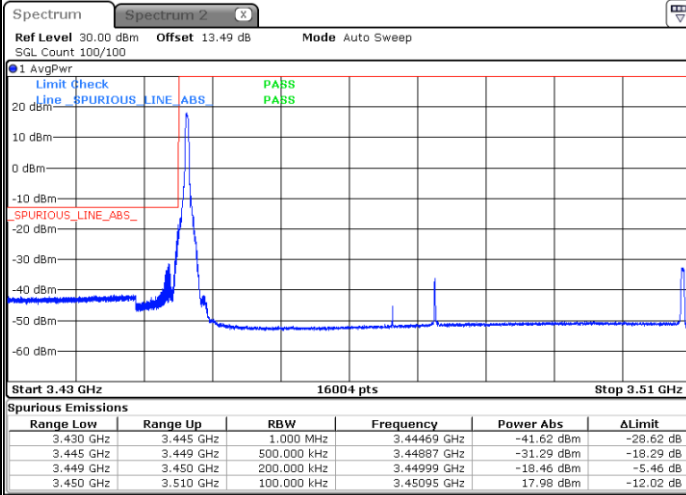
Date: 23.DEC.2022 03:22:52



FR1 n78 / 60MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

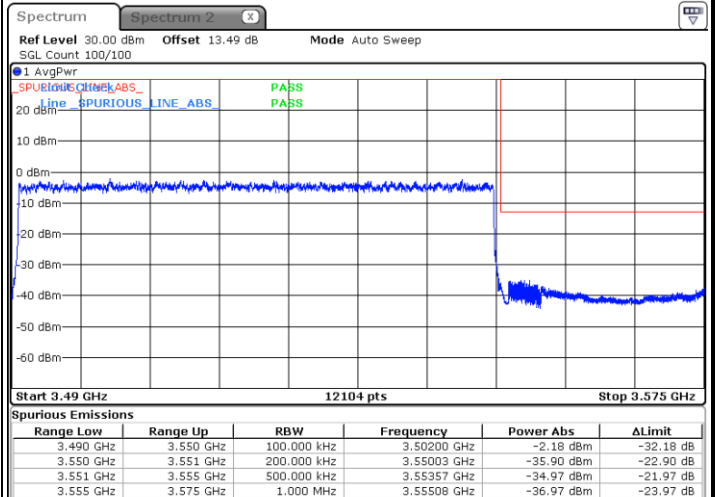
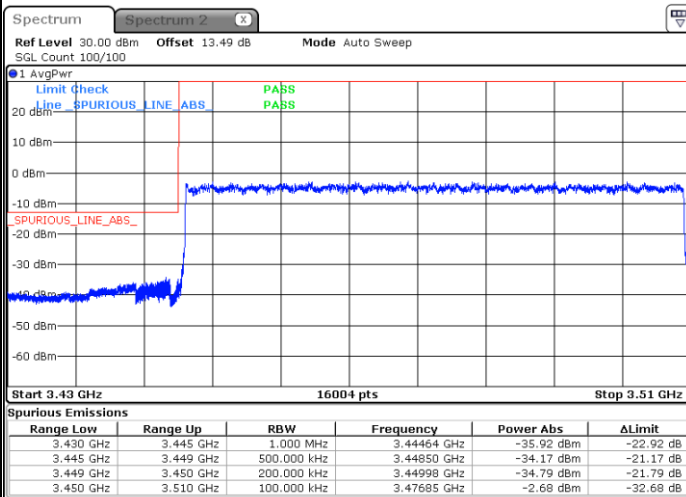


Date: 23.DEC.2022 02:39:21

Date: 23.DEC.2022 02:44:52

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 23.DEC.2022 02:42:11

Date: 23.DEC.2022 02:43:22

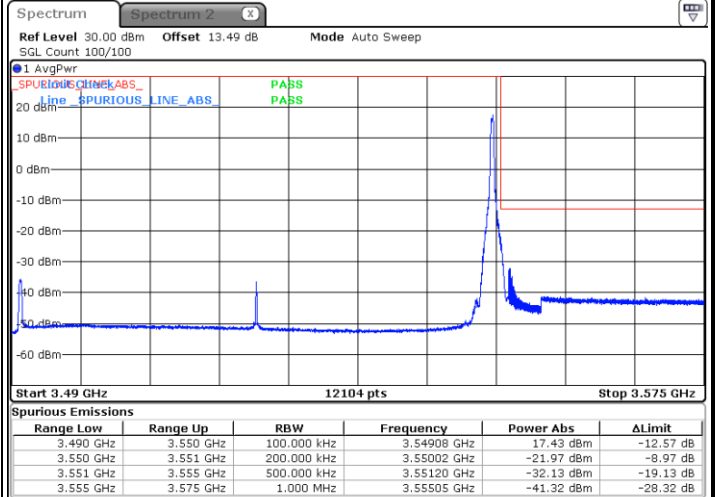
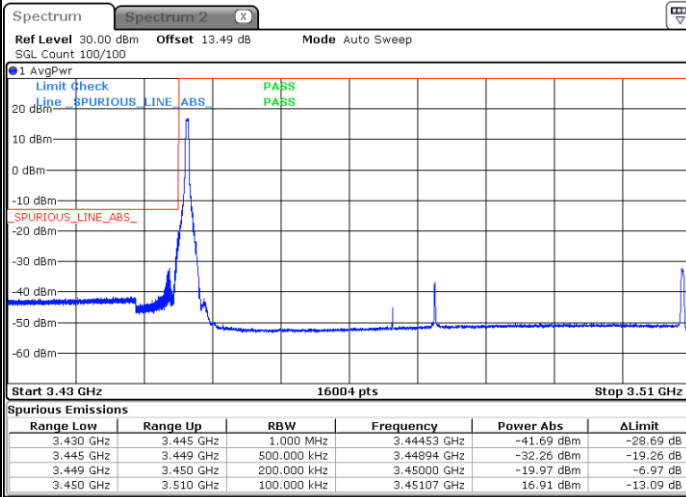




FR1 n78 / 60MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

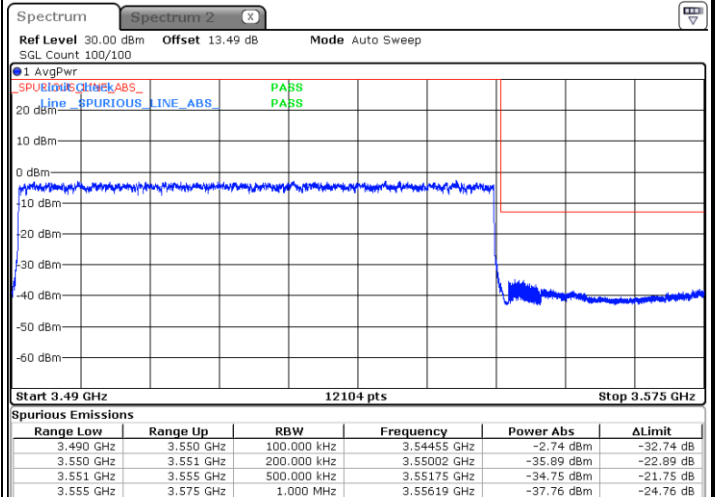
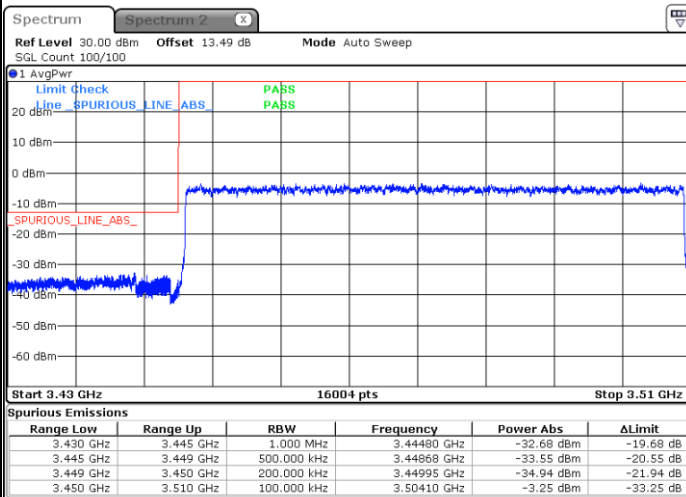


Date: 23.DEC.2022 02:40:19

Date: 23.DEC.2022 02:45:40

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 23.DEC.2022 02:41:31

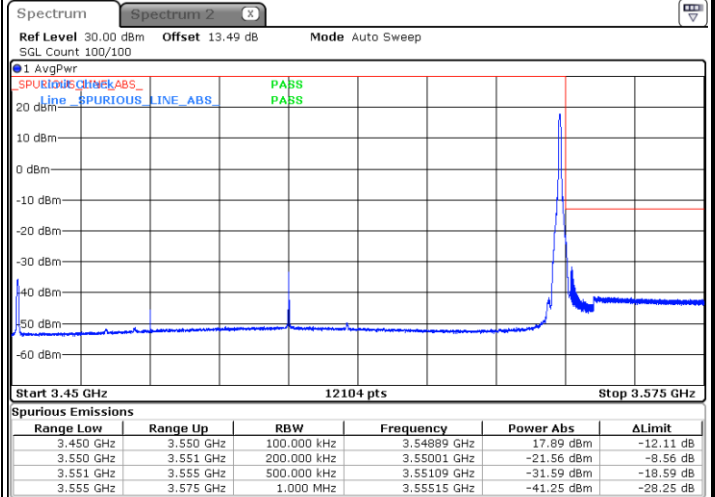
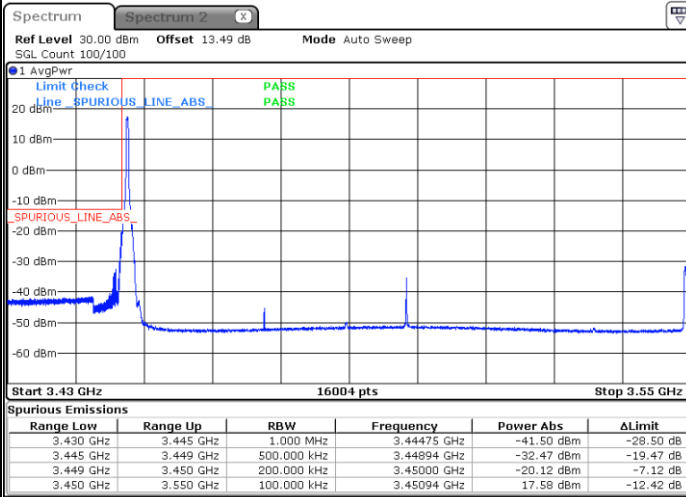
Date: 23.DEC.2022 02:43:54



FR1 n78 / 100MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

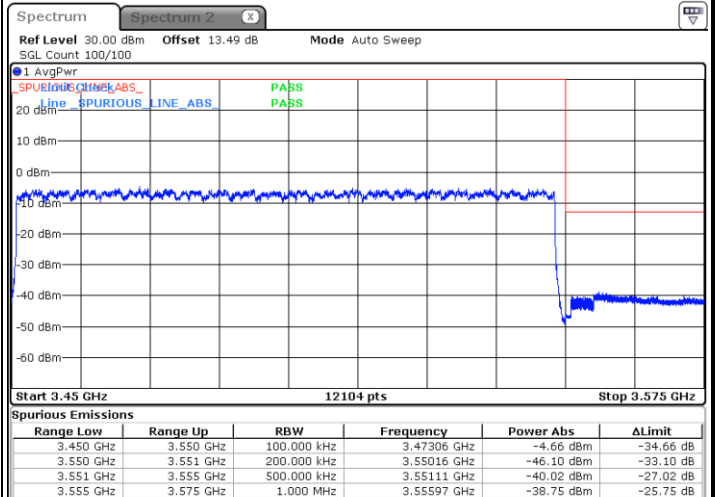
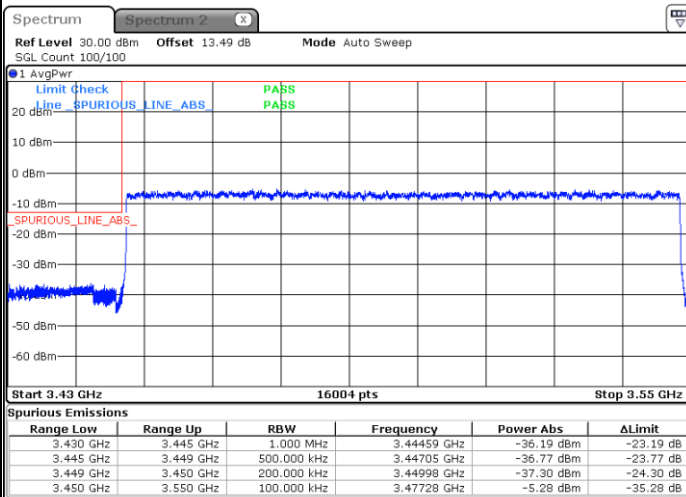


Date: 23.DEC.2022 02:05:37

Date: 23.DEC.2022 02:17:41

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 23.DEC.2022 02:13:47

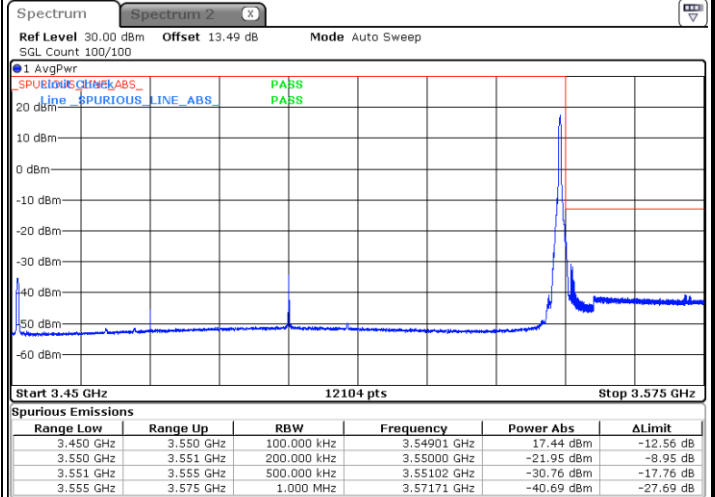
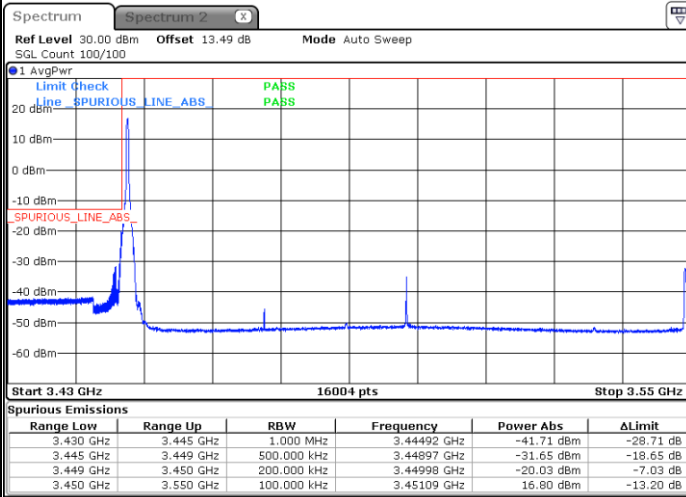
Date: 23.DEC.2022 02:14:38



FR1 n78 / 100MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

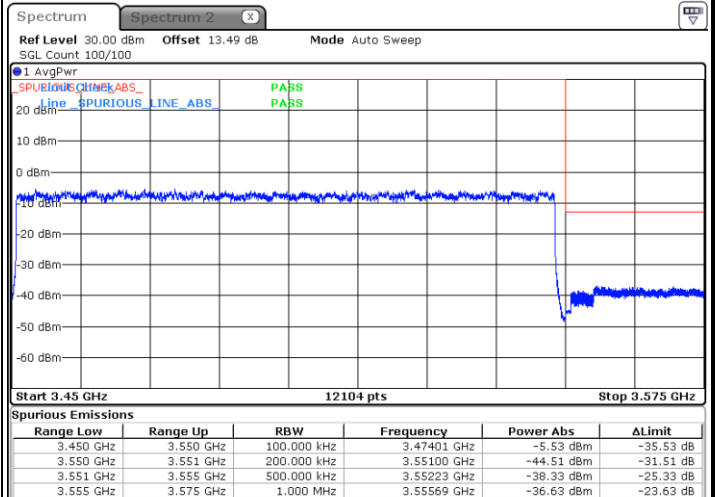
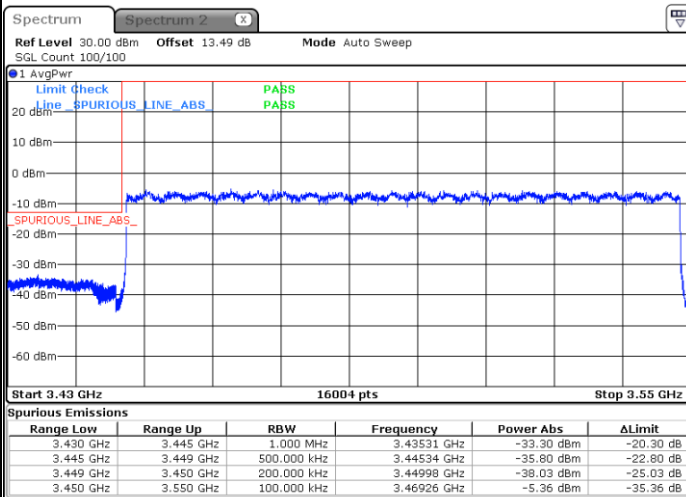


Date: 23.DEC.2022 02:06:14

Date: 23.DEC.2022 02:16:56

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 23.DEC.2022 02:12:23

Date: 23.DEC.2022 02:15:29

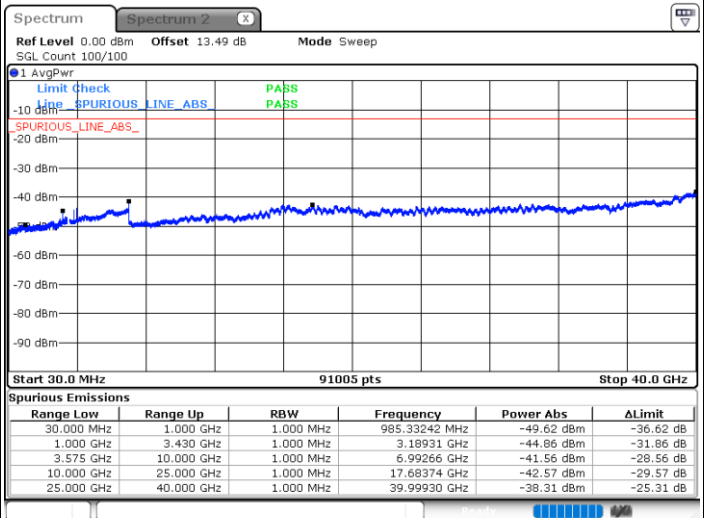
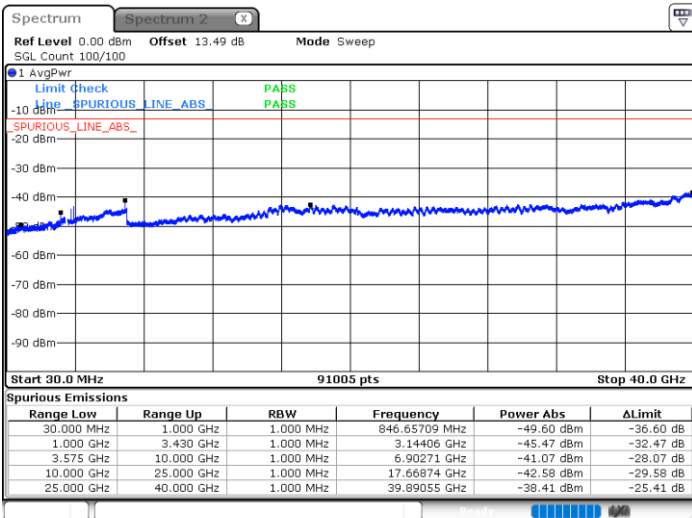


# Conducted Spurious Emission

FR1 n78 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

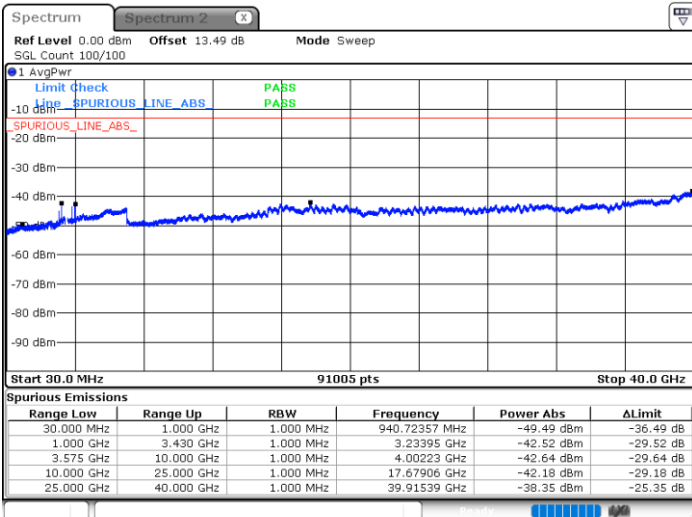
Middle Channel / 1RB1



Date: 23.DEC.2022 03:16:23

Date: 23.DEC.2022 03:14:20

Highest Channel / 1RB1



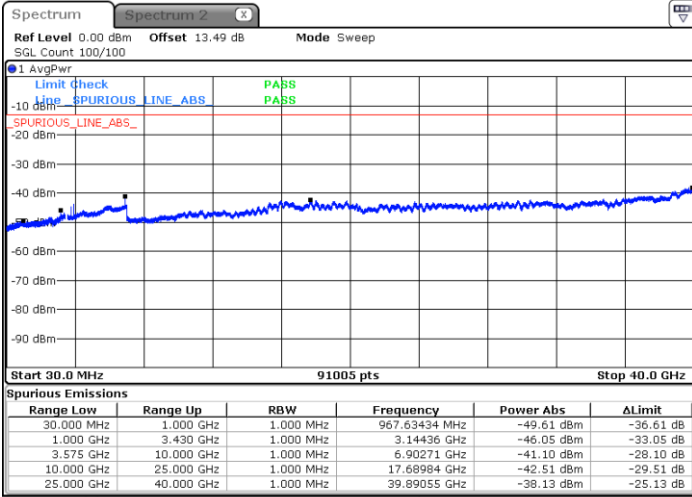
Date: 23.DEC.2022 03:26:03



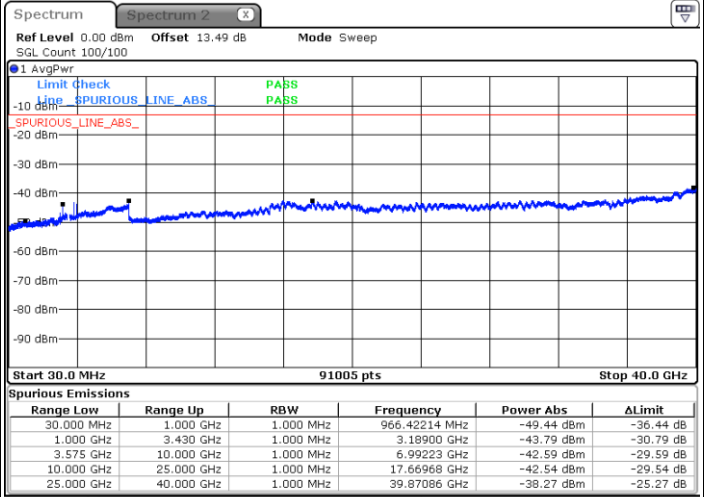
FR1 n78 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

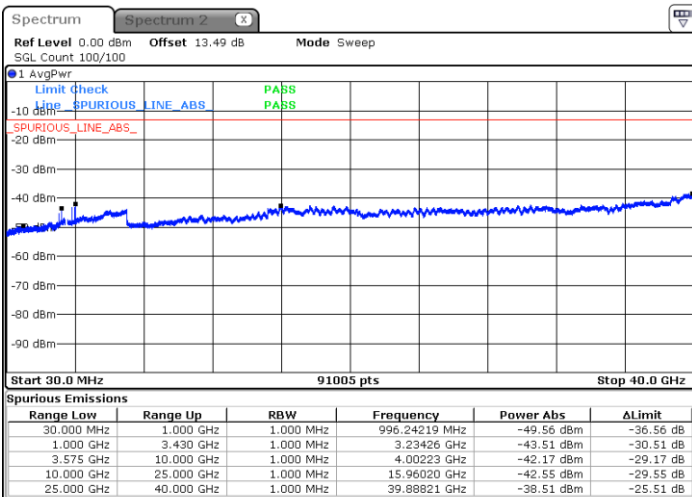


Date: 23.DEC.2022 03:17:55



Date: 23.DEC.2022 03:10:06

Highest Channel / 1RB1



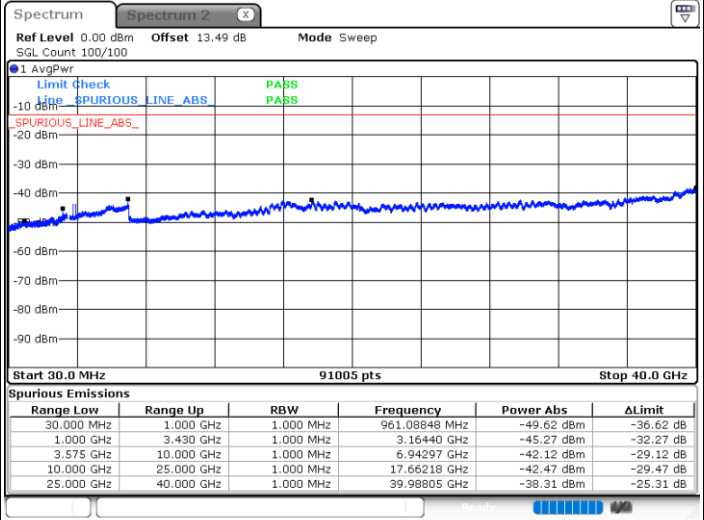
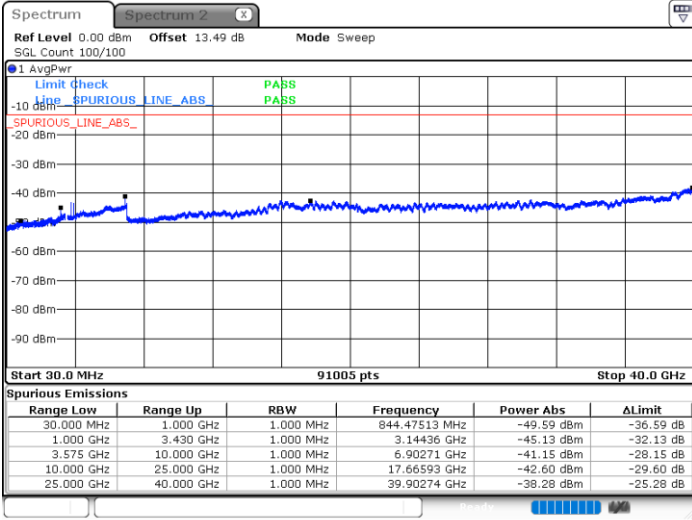
Date: 23.DEC.2022 03:39:12



FR1 n78 /60MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

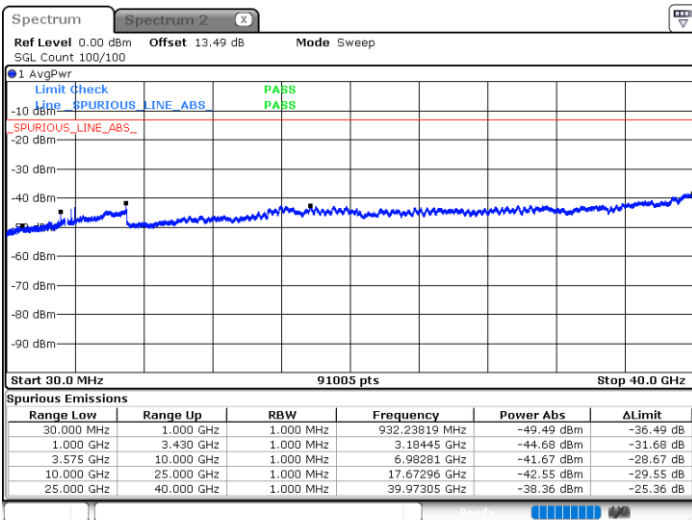
Middle Channel / 1RB1



Date: 23.DEC.2022 02:38:30

Date: 23.DEC.2022 02:33:46

Highest Channel / 1RB1



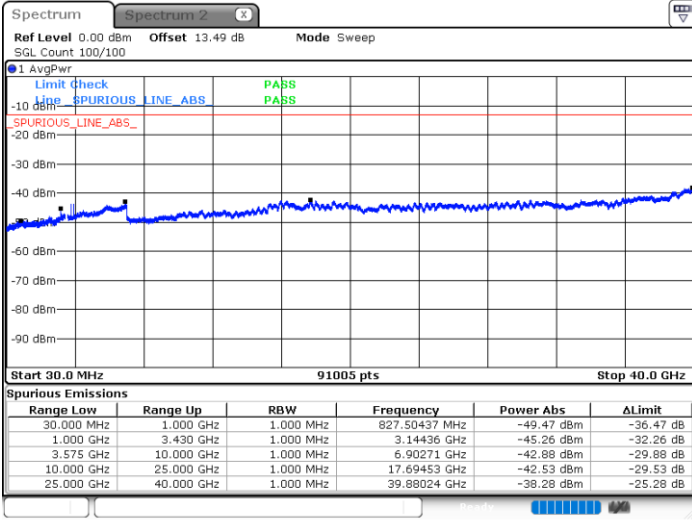
Date: 23.DEC.2022 02:51:14



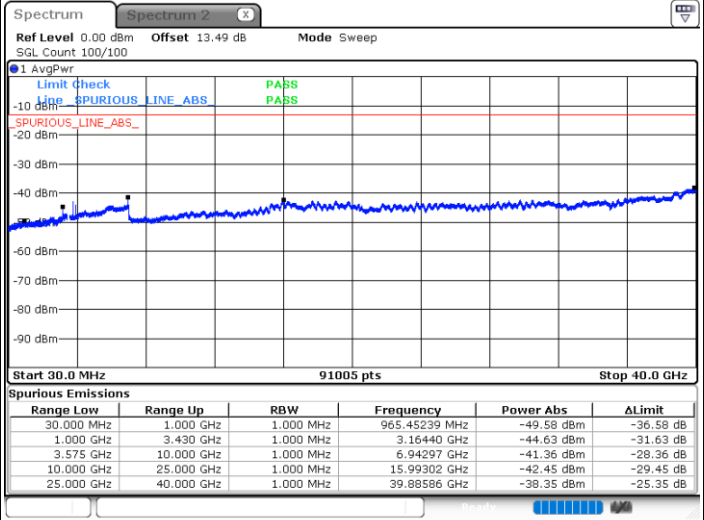
FR1 n78 /60MHz / DFT-S OFDM /QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

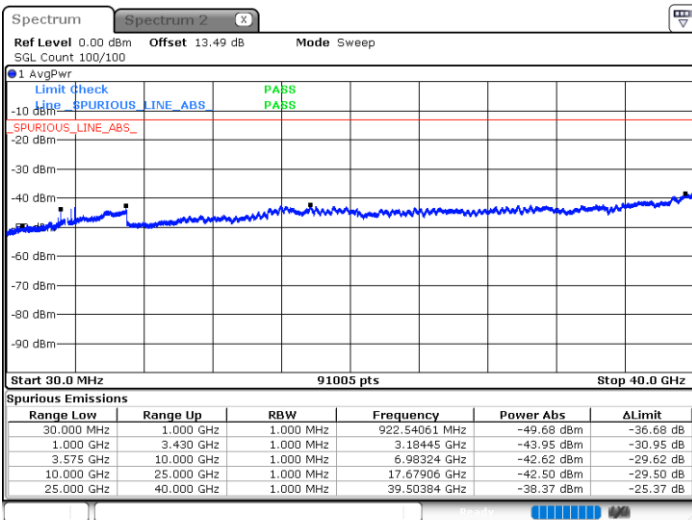


Date: 23.DEC.2022 02:37:16



Date: 23.DEC.2022 02:35:48

Highest Channel / 1RB1

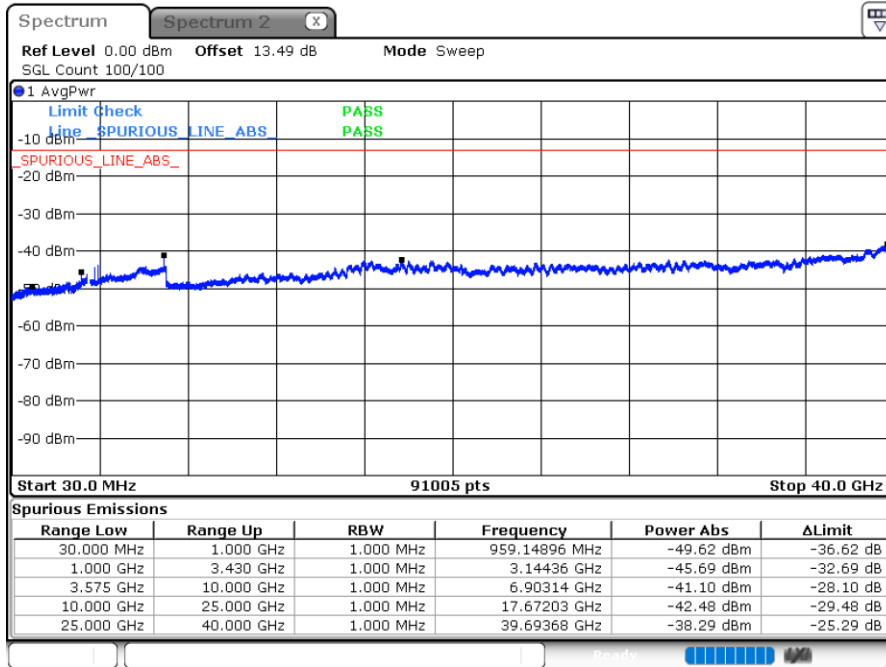


Date: 23.DEC.2022 02:47:04



FR1 n78 / 100MHz / DFT-S OFDM /BPSK

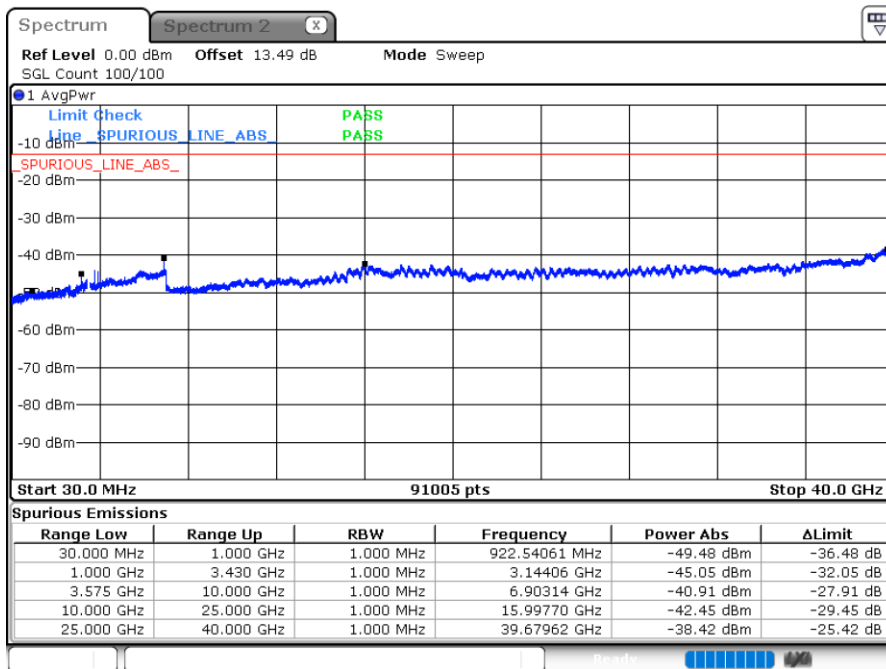
Middle Channel / 1RB1



Date: 23. DEC. 2022 02:04:02

FR1 n78 / 100MHz / DFT-S OFDM / QPSK

Middle Channel / 1RB1



Date: 23. DEC. 2022 02:01:07



## Frequency Stability

Test Conditions		FR1 n78 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0037	
30	Normal Voltage	0.0053	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0032	
-20	Normal Voltage	0.0051	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0013	

**Note:**

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



### Appendix B. Test Results of Radiated Test

#### Radiated Spurious Emission

Test Engineer :	Carry Xu	Temperature :	23~25°C
		Relative Humidity :	41~42%

Note: Pre-scanned harmonic for the different antenna combinations, we choose the worst antenna mode to perform final test.

5G NR n77 SA / 100MHz / QPSK / ANT 7								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6900	-63.63	-13	-50.63	-73.84	3.03	13.24	H
	10356	-52.58	-13	-39.58	-62.03	3.56	13.01	H
	13818	-61.79	-13	-48.79	-71.31	3.92	13.44	H
	6900	-61.44	-13	-48.44	-71.65	3.03	13.24	V
	10356	-48.44	-13	-35.44	-57.89	3.56	13.01	V
	13818	-61.94	-13	-48.94	-71.46	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

5G NR DC_66A_n77A / LTE 10MHz + NR 100MHz / QPSK / ANT0(LTE) + ANT7(NR)								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6900	-62.44	-13	-49.44	-72.65	3.03	13.24	H
	10356	-54.84	-13	-41.84	-64.29	3.56	13.01	H
	13818	-61.79	-13	-48.79	-71.31	3.92	13.44	H
	6900	-60.51	-13	-47.51	-70.72	3.03	13.24	V
	10356	-49.66	-13	-36.66	-59.11	3.56	13.01	V
	13818	-61.94	-13	-48.94	-71.46	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.