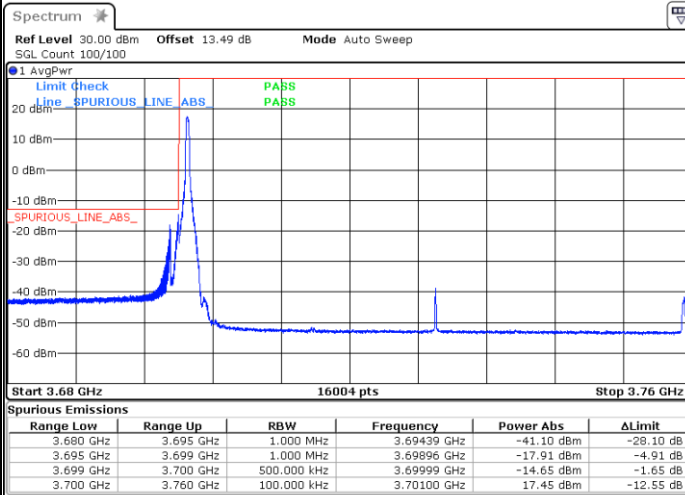




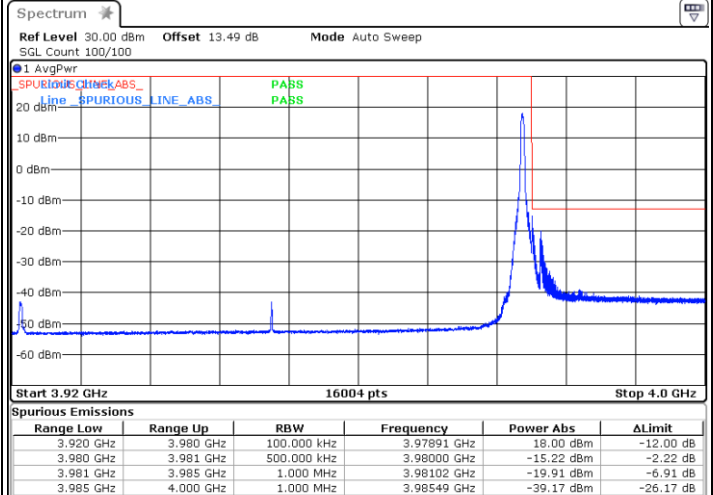
FR1 n77 / 60MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



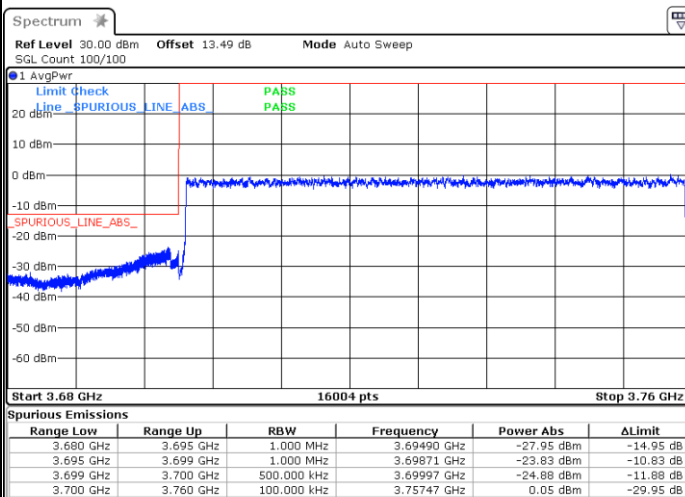
Date: 14.NOV.2022 13:22:21



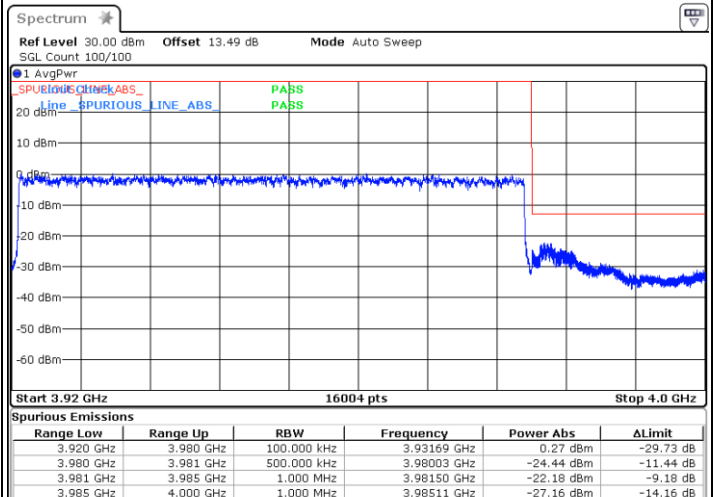
Date: 14.NOV.2022 13:38:23

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 14.NOV.2022 13:25:08



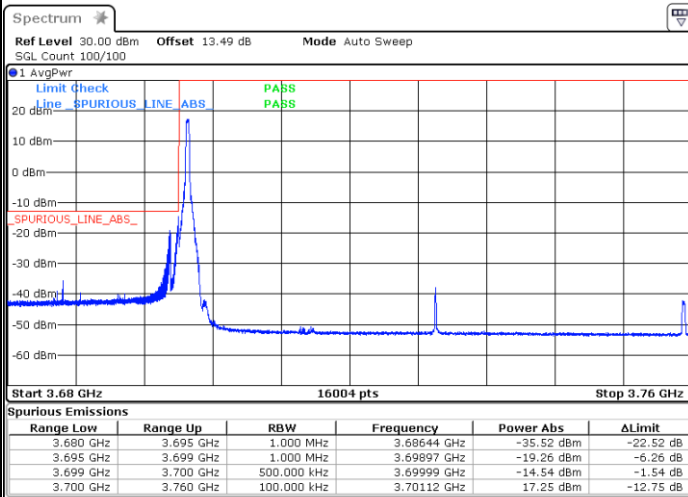
Date: 14.NOV.2022 13:33:58



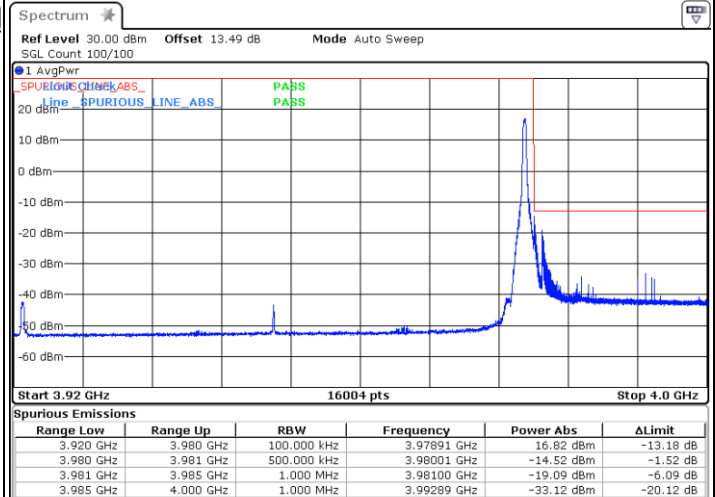
FR1 n77 / 60MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



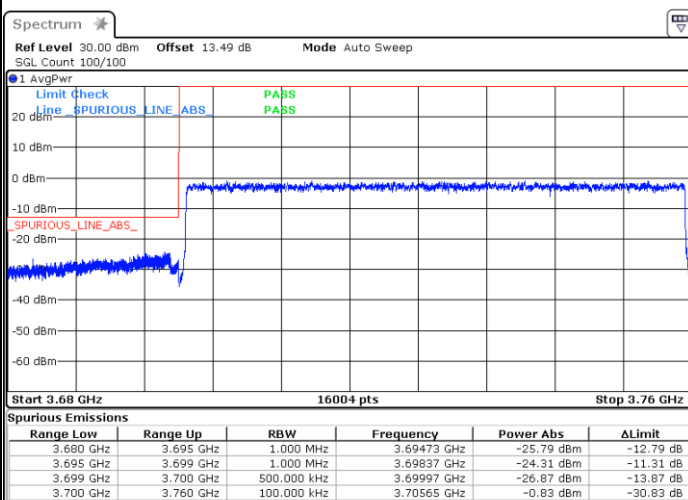
Date: 14.NOV.2022 13:23:20



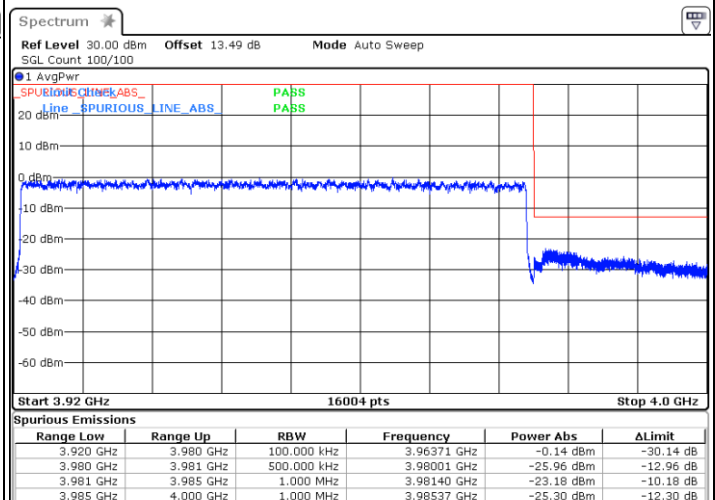
Date: 14.NOV.2022 13:37:29

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 14.NOV.2022 13:24:16



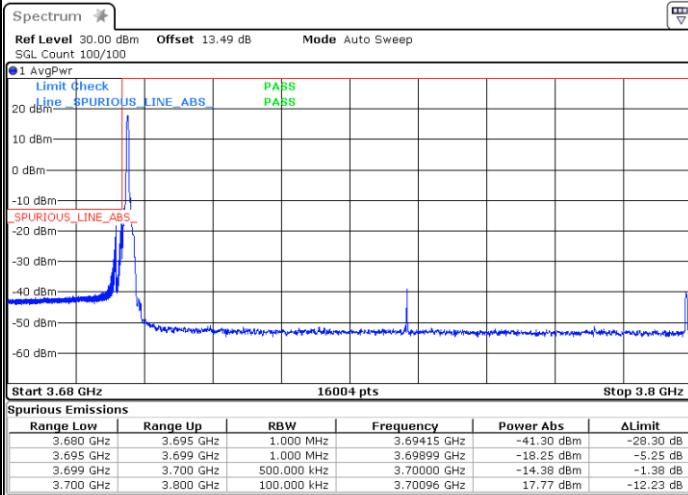
Date: 14.NOV.2022 13:34:54



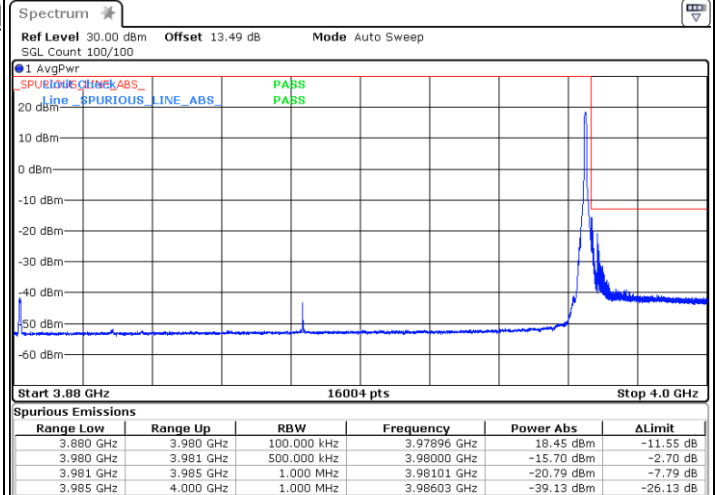
FR1 n77 / 100MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



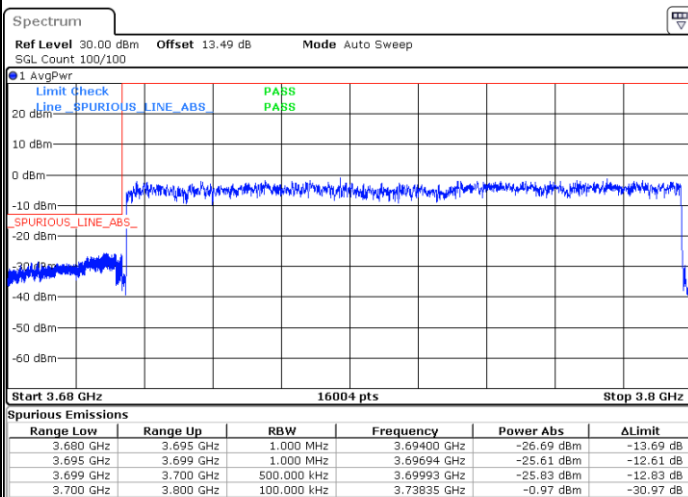
Date: 14.NOV.2022 13:48:49



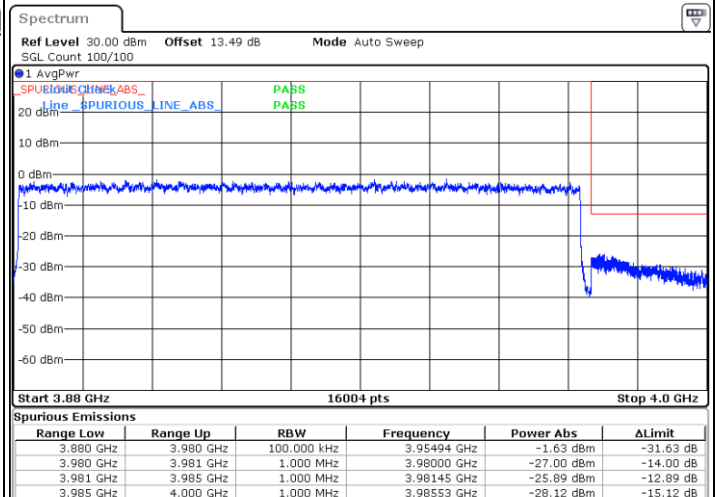
Date: 14.NOV.2022 14:02:34

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 14.NOV.2022 13:49:20



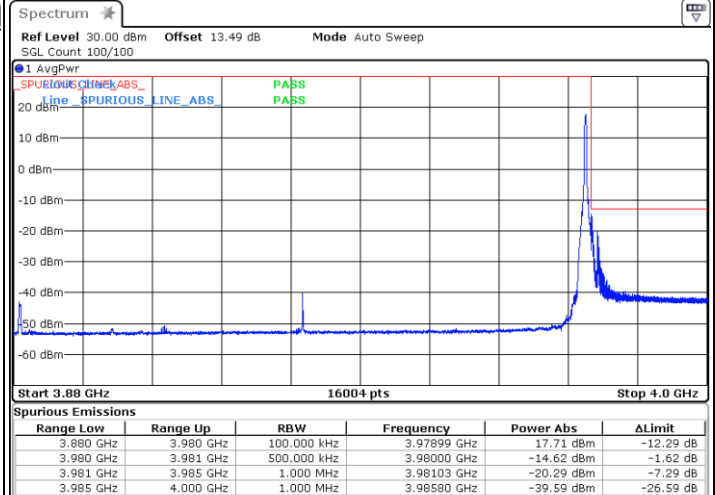
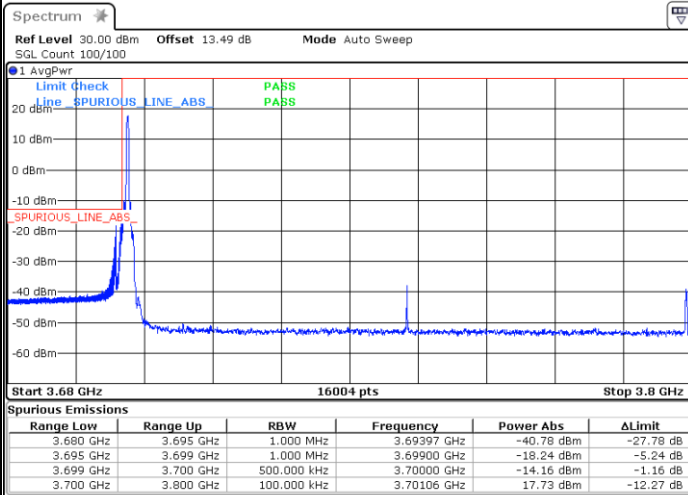
Date: 14.NOV.2022 14:00:34



FR1 n77 / 100MHz / DFT-S OFDM / QPSK

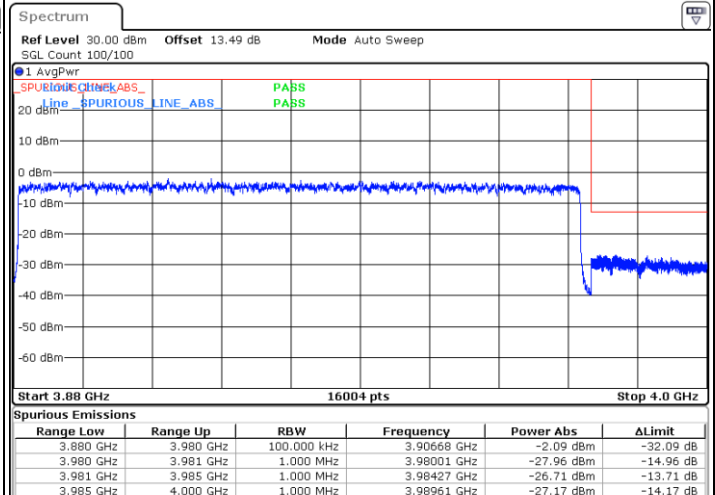
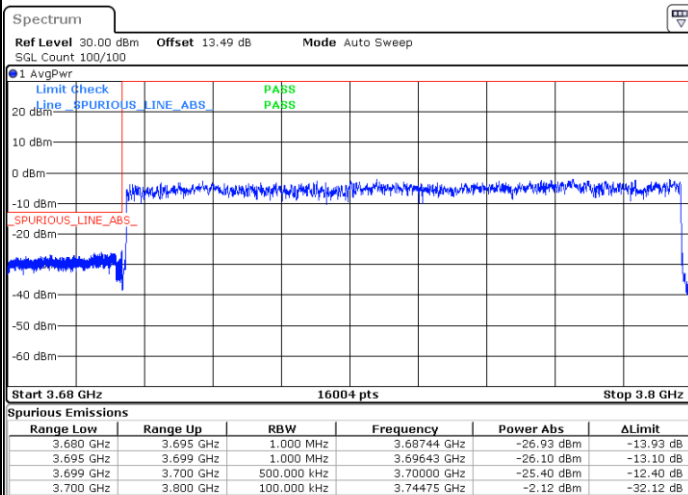
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB



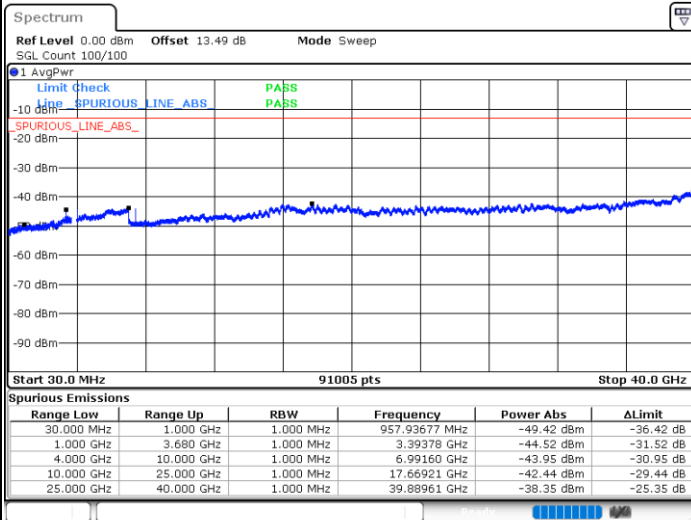


Conducted Spurious Emission

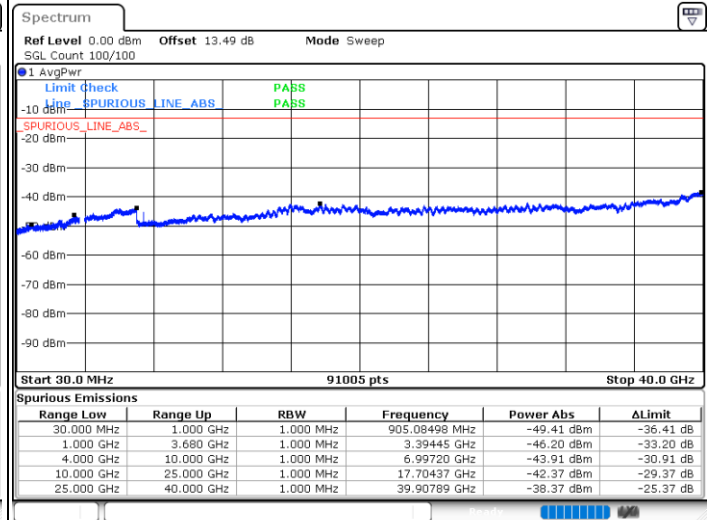
FR1 n77 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

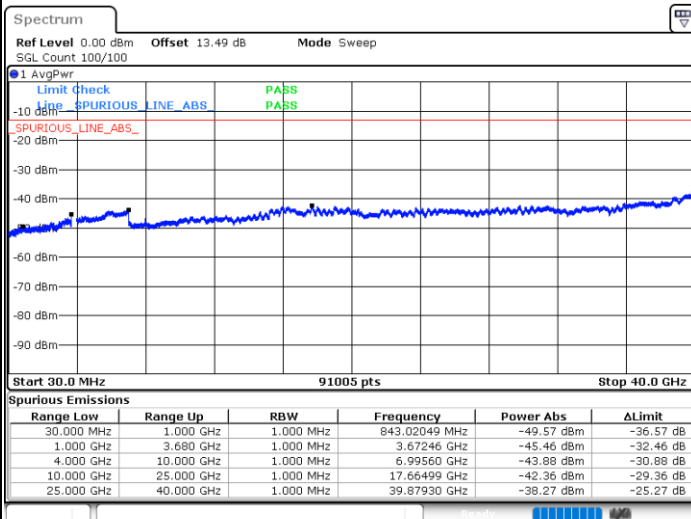


Date: 14.NOV.2022 12:23:46



Date: 14.NOV.2022 13:03:02

Highest Channel / 1RB1

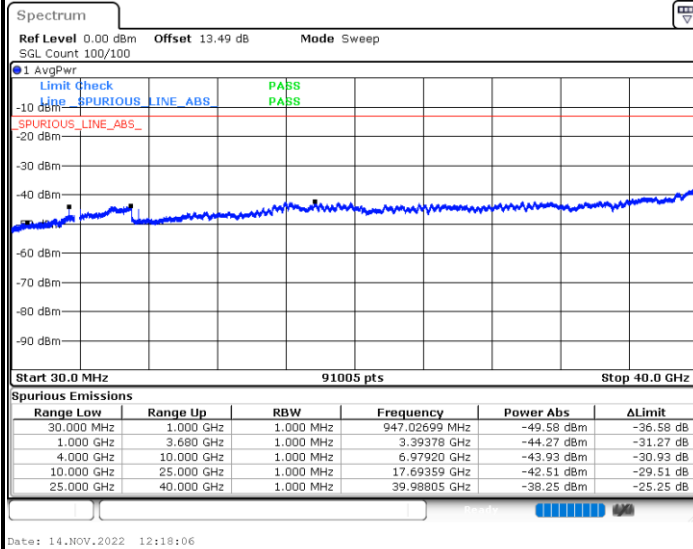


Date: 14.NOV.2022 13:18:08

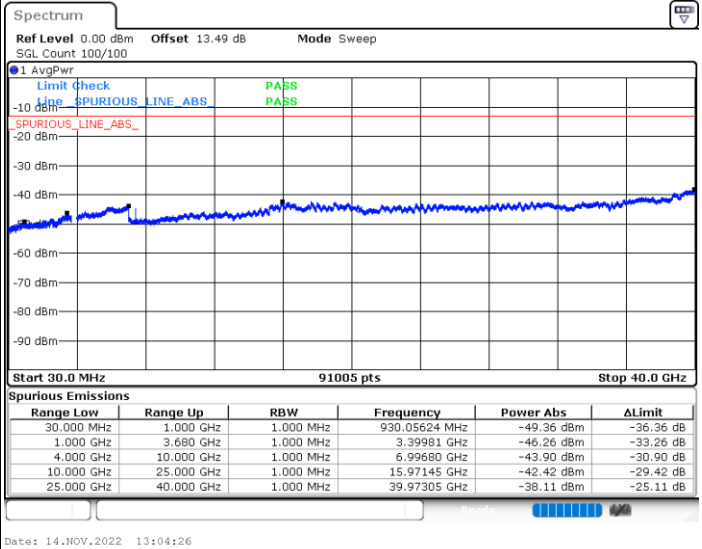


FR1 n77 / 10MHz / DFT-S OFDM /QPSK

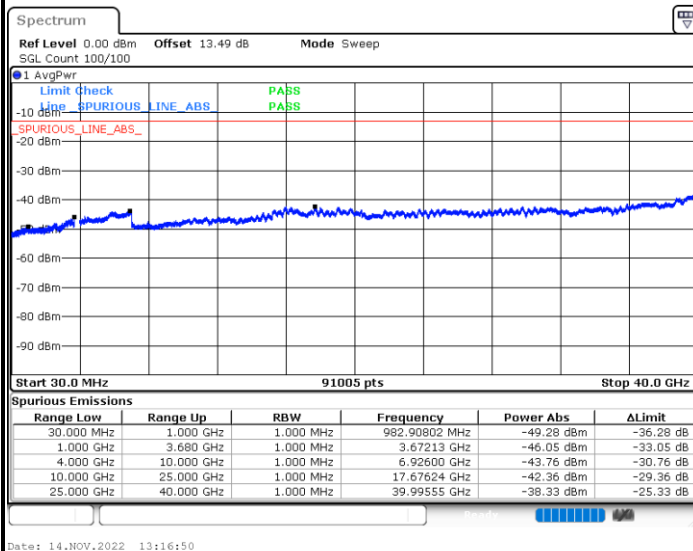
Lowest Channel / 1RB1



Middle Channel / 1RB1



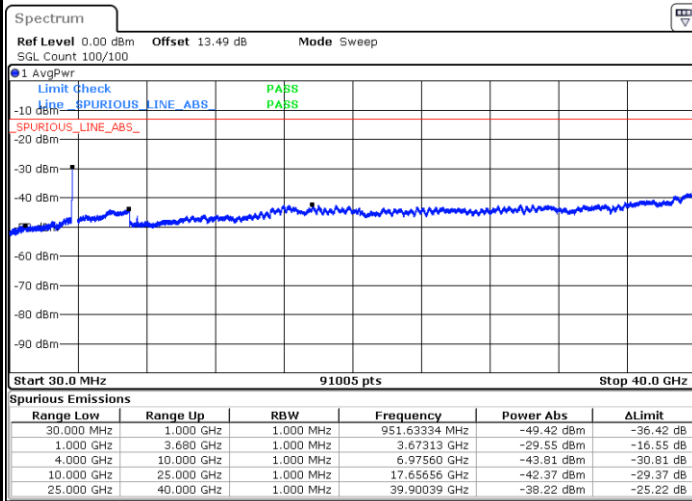
Highest Channel / 1RB1





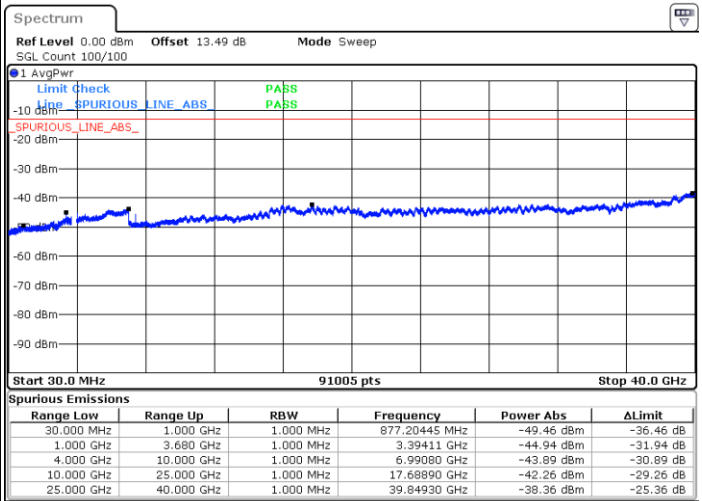
FR1 n77 /60MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1



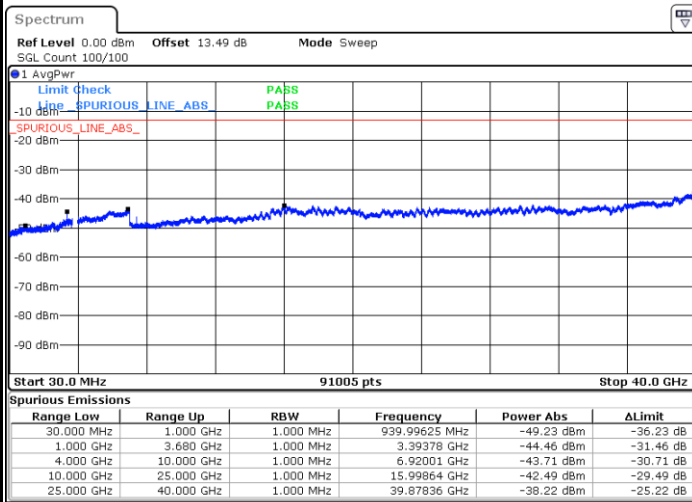
Date: 14.NOV.2022 13:26:28

Middle Channel / 1RB1



Date: 14.NOV.2022 13:30:19

Highest Channel / 1RB1

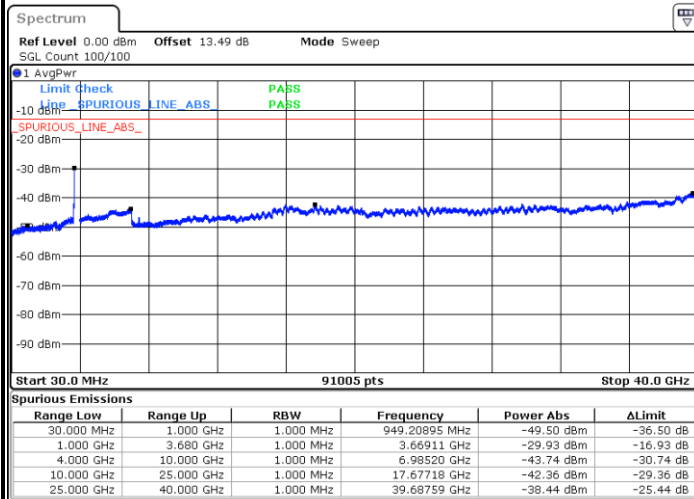


Date: 14.NOV.2022 13:31:41



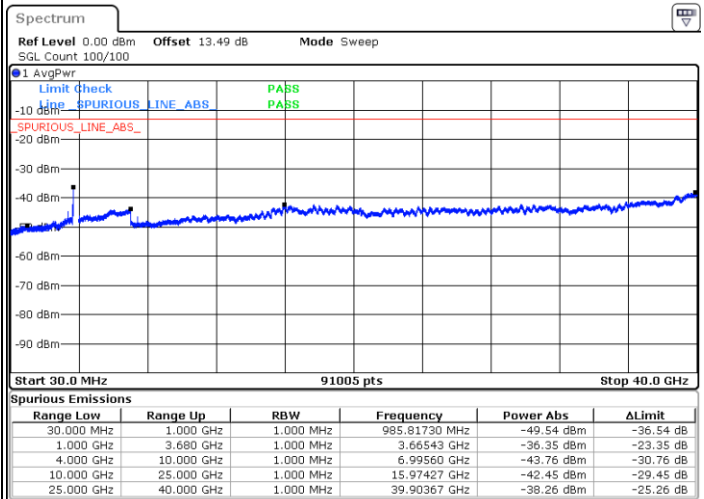
FR1 n77 /60MHz / DFT-S OFDM /QPSK

Lowest Channel / 1RB1



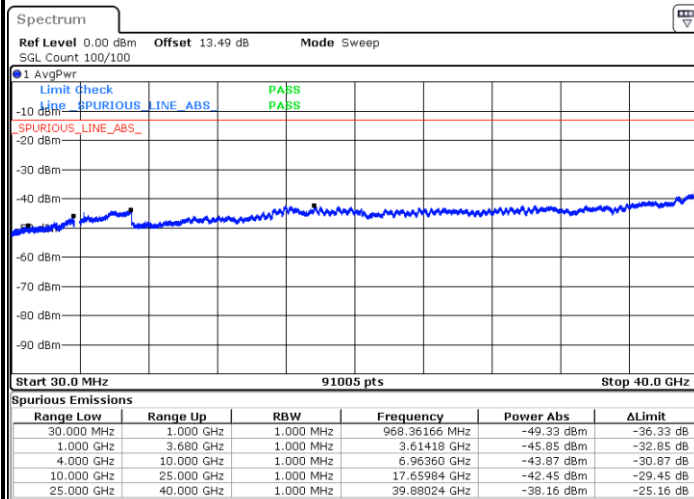
Date: 14.NOV.2022 13:27:42

Middle Channel / 1RB1



Date: 14.NOV.2022 13:29:03

Highest Channel / 1RB1



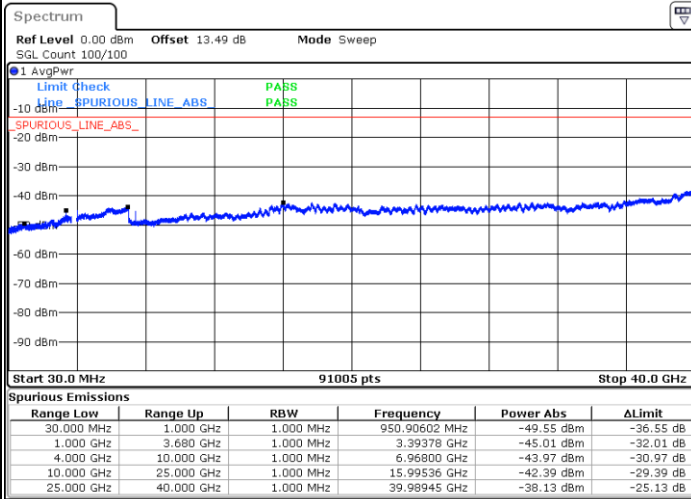
Date: 14.NOV.2022 13:32:56



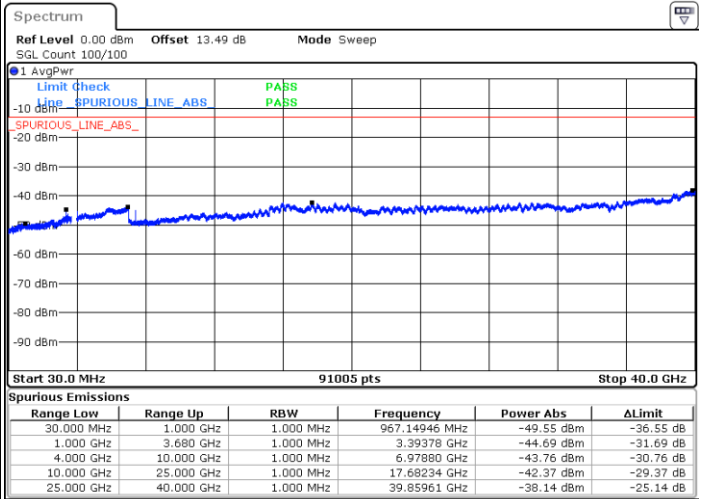
FR1 n77 /100MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

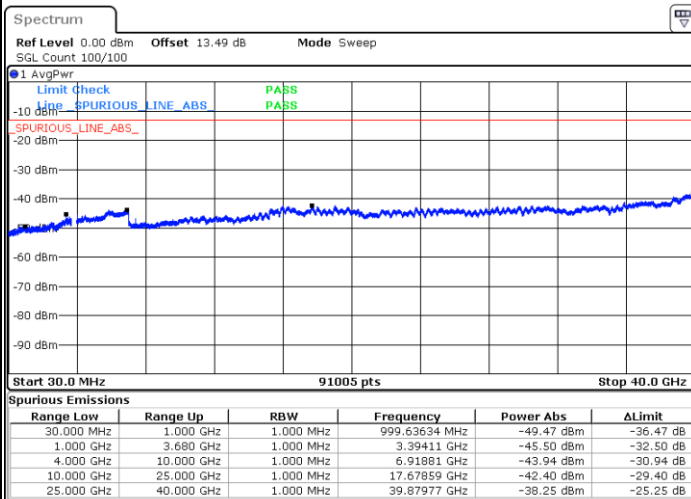


Date: 14.NOV.2022 13:52:32



Date: 14.NOV.2022 13:54:03

Highest Channel / 1RB1

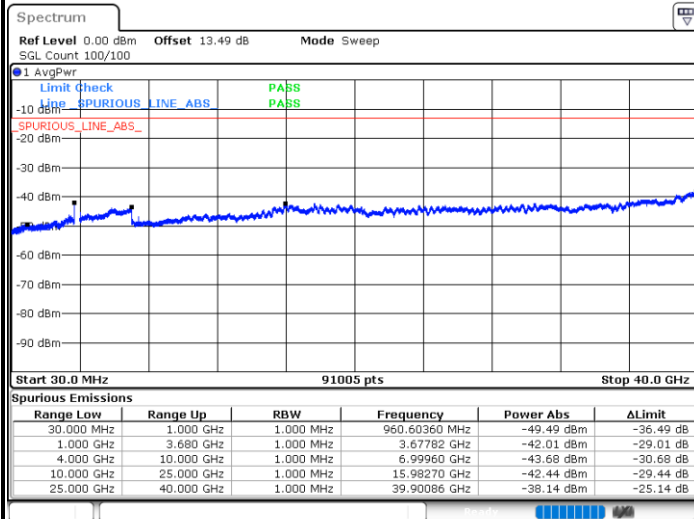


Date: 14.NOV.2022 13:58:12



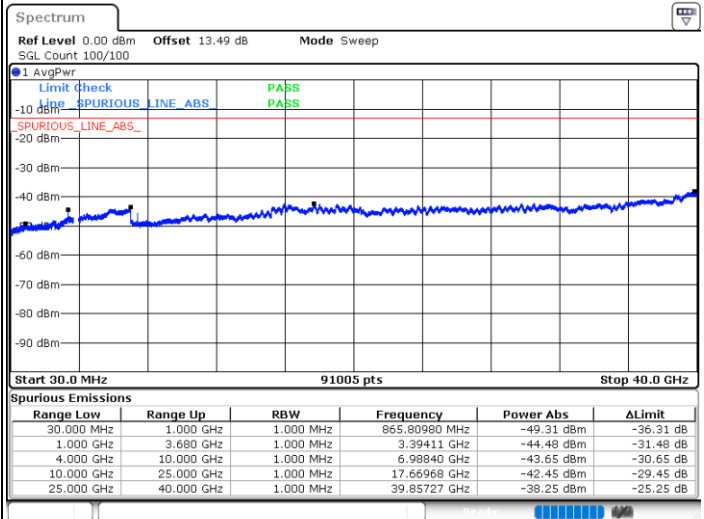
FR1 n77 /100MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



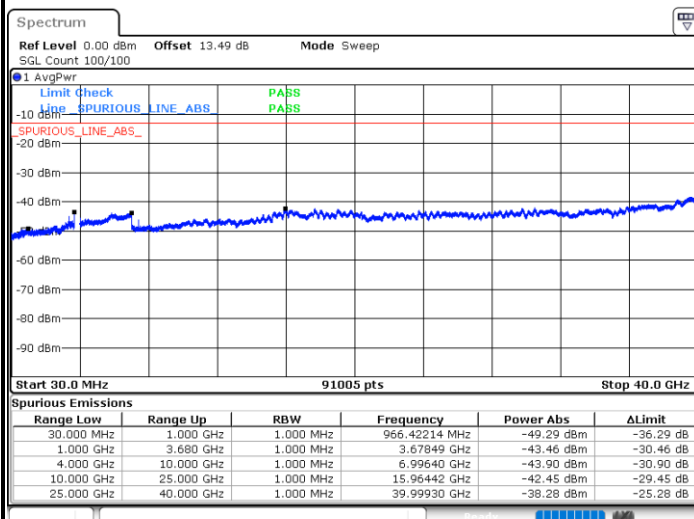
Date: 14.NOV.2022 13:51:08

Middle Channel / 1RB1



Date: 14.NOV.2022 13:55:19

Highest Channel / 1RB1



Date: 14.NOV.2022 13:56:37

Frequency Stability

Test Conditions		FR1 n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0029	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0025	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0038	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0015	

Note:

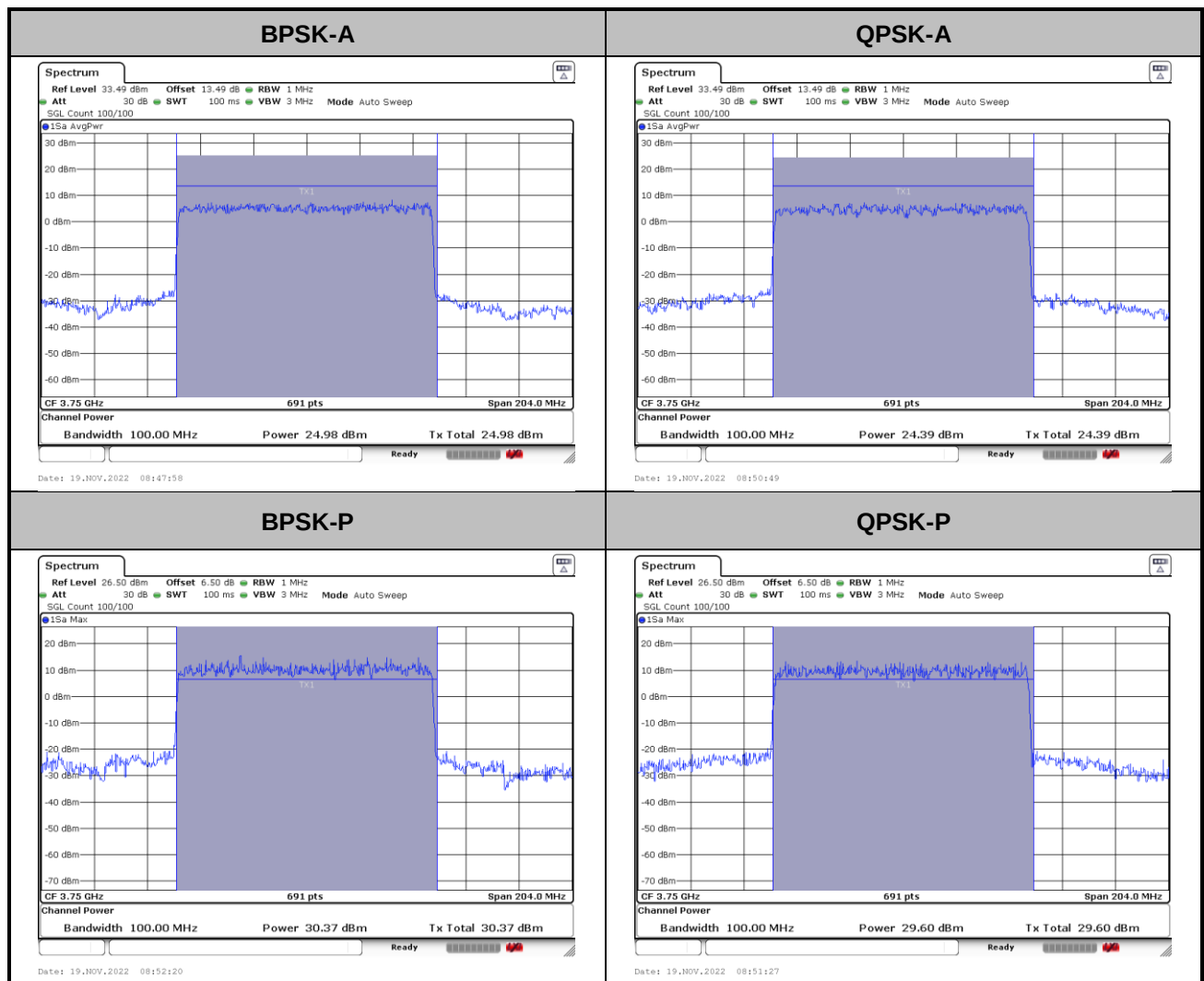
1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



FR1 n78

Peak-to-Average Ratio

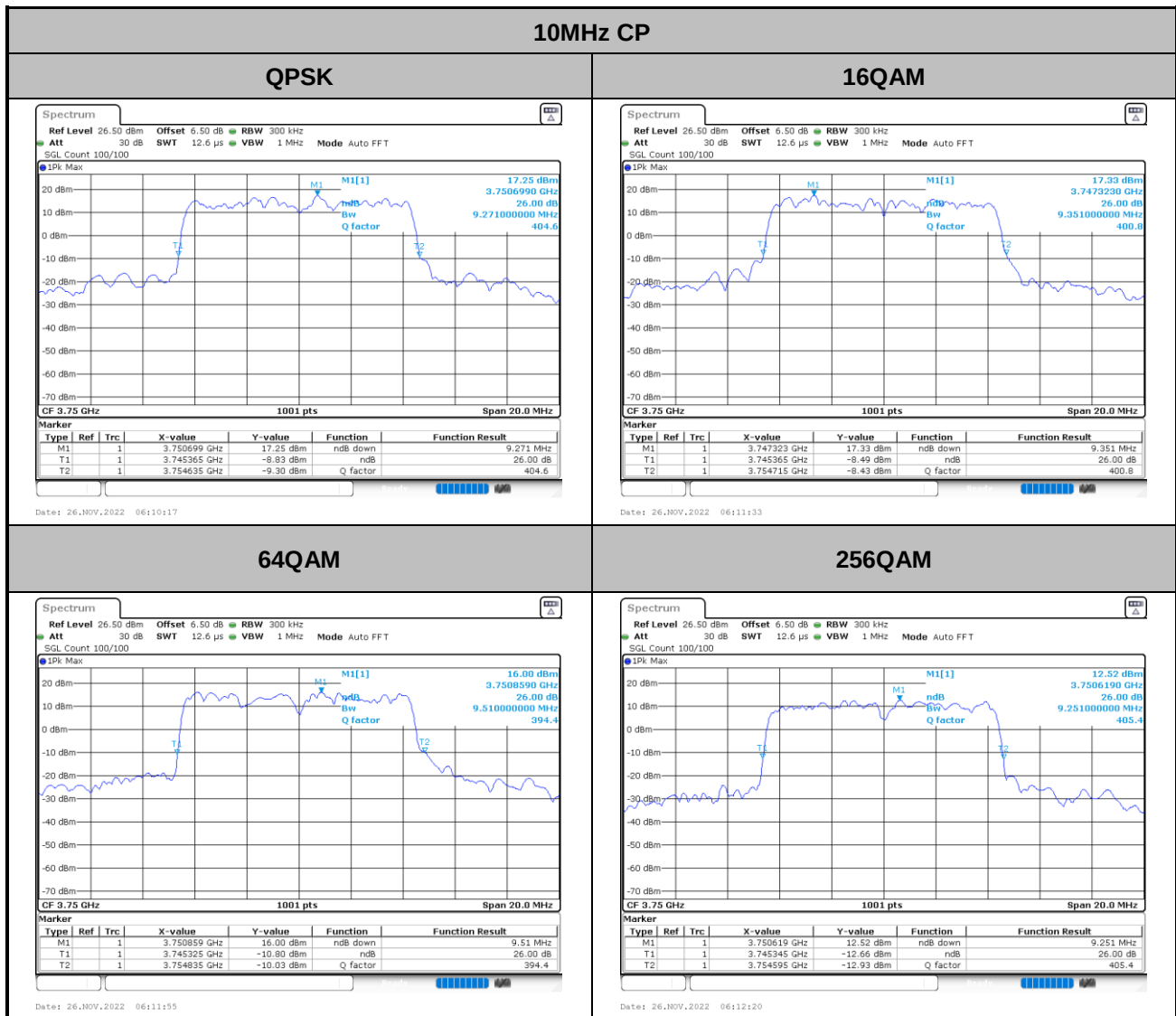
Mode	FR1 n78 / 20MHz / DFT-S OFDM		
Mod.	100M		Limit: 13dB
RB Size	BPSK	QPSK	Result
Middle CH	5.39	5.21	PASS



26dB Bandwidth

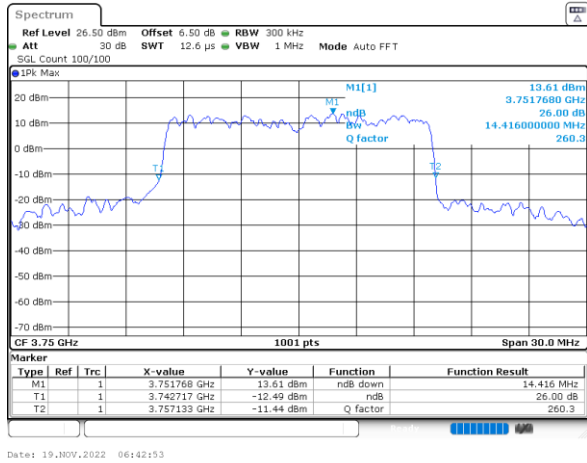
Mode	FR1 n78 : 26dB BW(10 MHz) / CP OFDM				
BW	CP				
Mod.	QPSK	16QAM	64QAM	256QAM	
Middle CH	9.27	9.35	9.51	9.25	
Mode	FR1 n78 : 26dB BW(15 MHz) / CP OFDM				
BW	CP				
Mod.	QPSK	16QAM	64QAM	256QAM	
Middle CH	14.42	14.75	14.87	14.75	
Mode	FR1 n78 : 26dB BW(20 MHz) / CP OFDM				
BW	CP				
Mod.	QPSK	16QAM	64QAM	256QAM	
Middle CH	19.62	19.06	19.30	19.34	
Mode	FR1 n78 : 26dB BW(30 MHz) / CP OFDM				
BW	CP				
Mod.	QPSK	16QAM	64QAM	256QAM	
Middle CH	29.29	28.81	29.33	28.73	
Mode	FR1 n78 : 26dB BW(40 MHz) / CP OFDM				
BW	CP				
Mod.	QPSK	16QAM	64QAM	256QAM	
Middle CH	40.28	40.44	40.20	40.60	
Mode	FR1 n78 : 26dB BW(50 MHz) / CP OFDM				
BW	CP				
Mod.	QPSK	16QAM	64QAM	256QAM	
Middle CH	49.75	49.75	49.65	49.75	
Mode	FR1 n78 : 26dB BW(60 MHz) / CP OFDM				
BW	CP				
Mod.	QPSK	16QAM	64QAM	256QAM	
Middle CH	60.54	60.30	60.30	60.30	
Mode	FR1 n78 : 26dB BW(70 MHz) / CP OFDM				
BW	CP				
Mod.	QPSK	16QAM	64QAM	256QAM	
Middle CH	70.13	69.89	70.25	70.01	
Mode	FR1 n78 : 26dB BW(80 MHz) / CP OFDM				
BW	CP				
Mod.	QPSK	16QAM	64QAM	256QAM	
Middle CH	82.48	82.32	82.32	82.16	

Mode	FR1 n78 : 26dB BW(90 MHz) / CP OFDM				
BW	CP				
Mod.	QPSK	16QAM	64QAM	256QAM	
Middle CH	92.43	92.43	92.43	92.43	
Mode	FR1 n78 : 26dB BW(100 MHz) / CP OFDM				
BW	CP				
Mod.	QPSK	16QAM	64QAM	256QAM	
Middle CH	102.9	102.7	102.7	102.7	

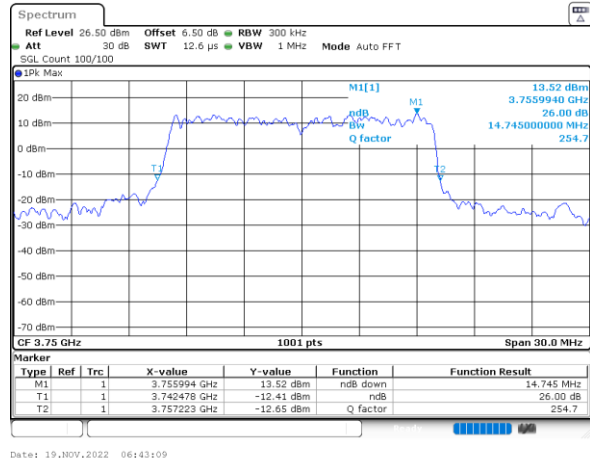


15MHz CP

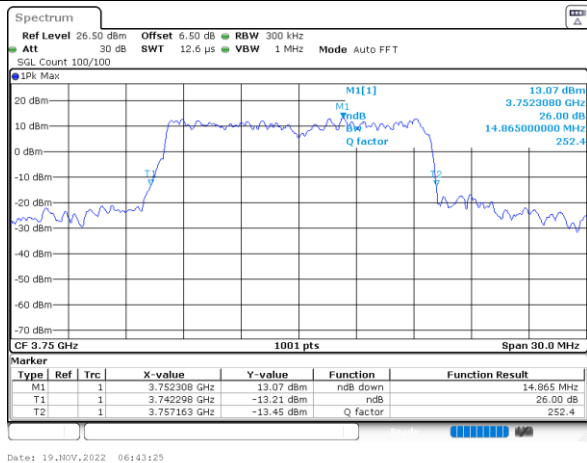
QPSK



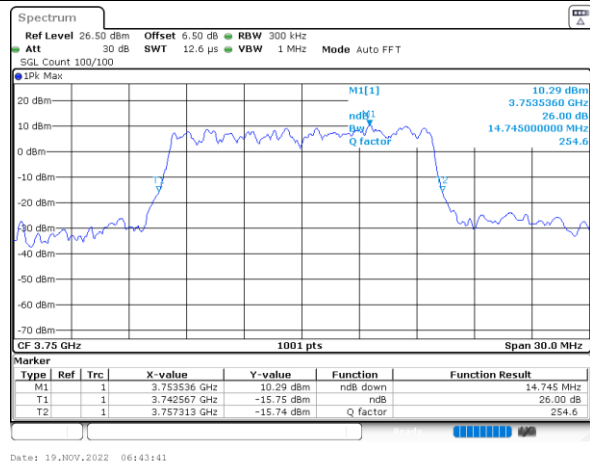
16QAM



64QAM

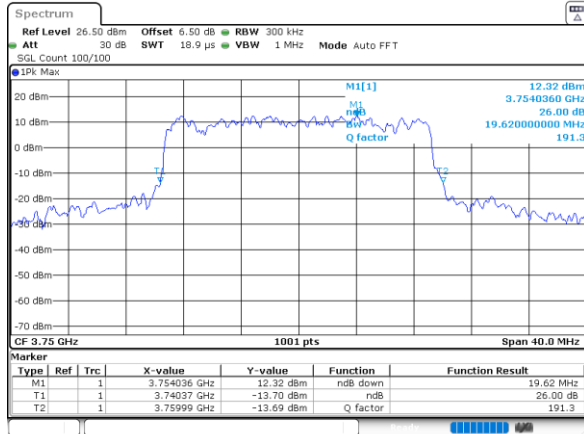


256QAM



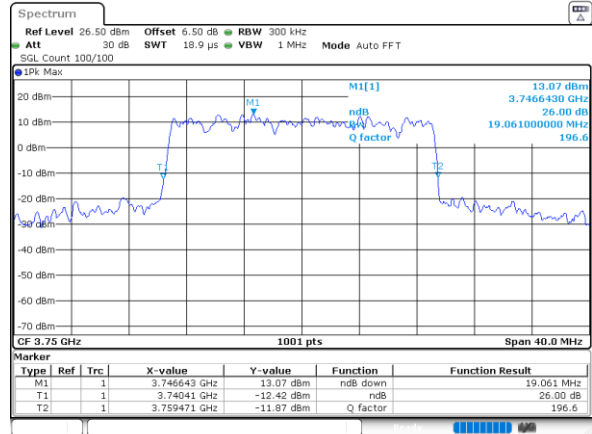
20MHz CP

QPSK



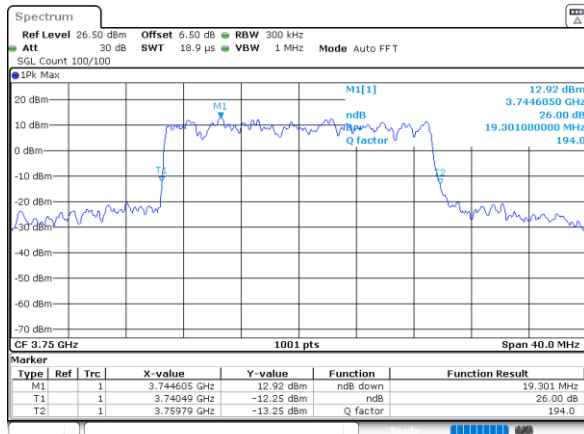
Date: 19.NOV.2022 06:46:26

16QAM



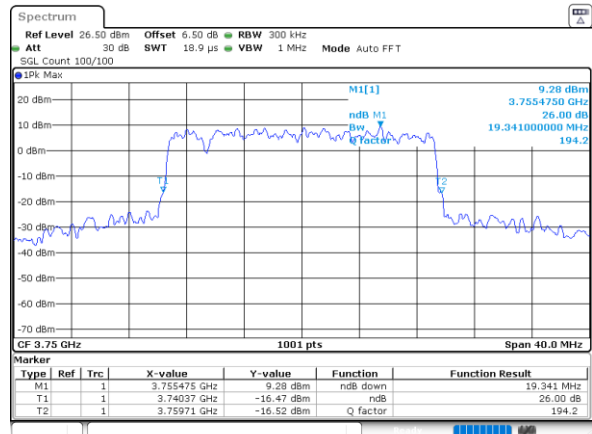
Date: 19.NOV.2022 06:46:10

64QAM



Date: 19.NOV.2022 06:45:54

256QAM

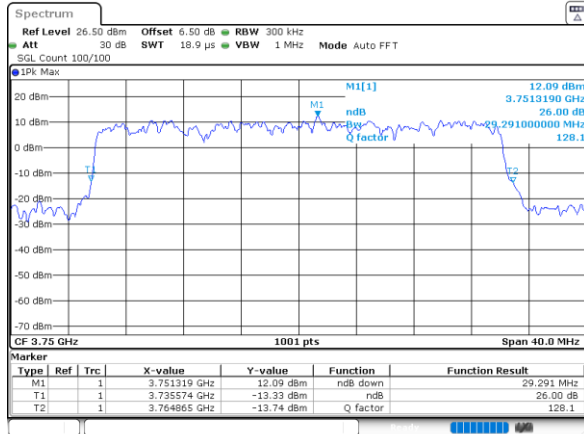


Date: 19.NOV.2022 06:45:37



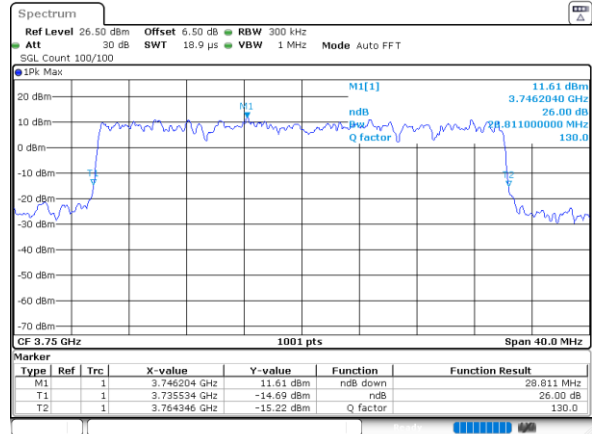
30MHz CP

QPSK



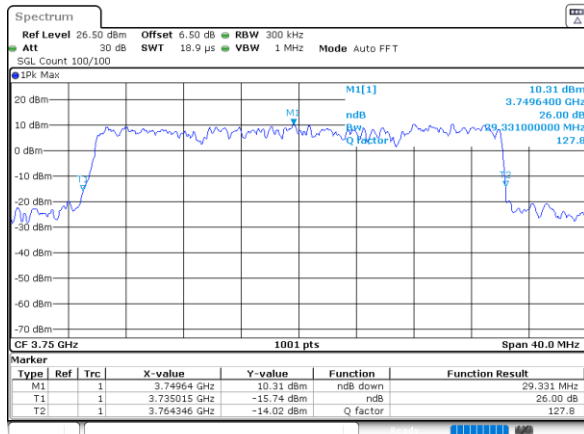
Date: 19.NOV.2022 06:47:00

16QAM



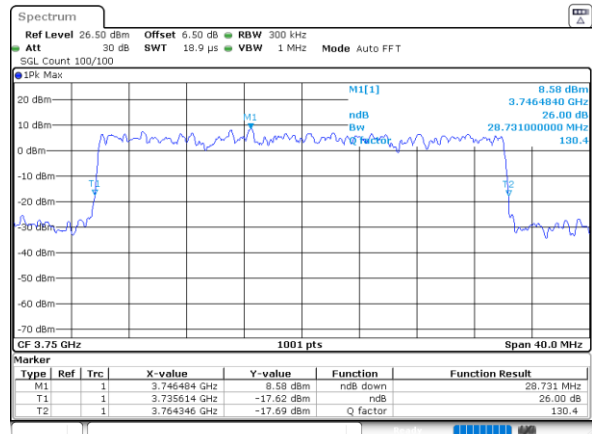
Date: 19.NOV.2022 06:47:15

64QAM



Date: 19.NOV.2022 06:47:31

256QAM

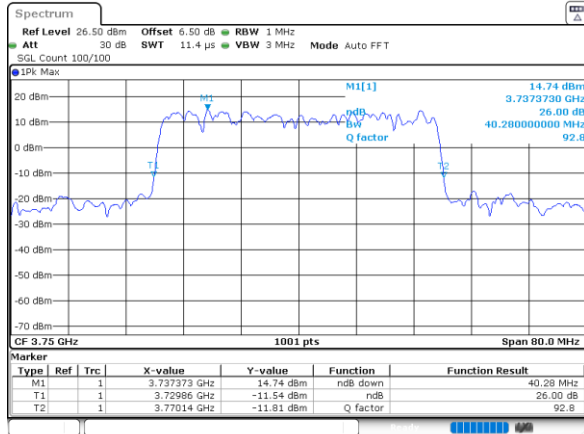


Date: 19.NOV.2022 06:47:48

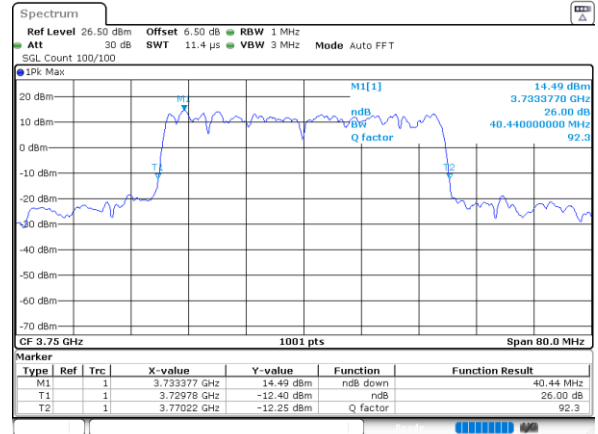


40MHz CP

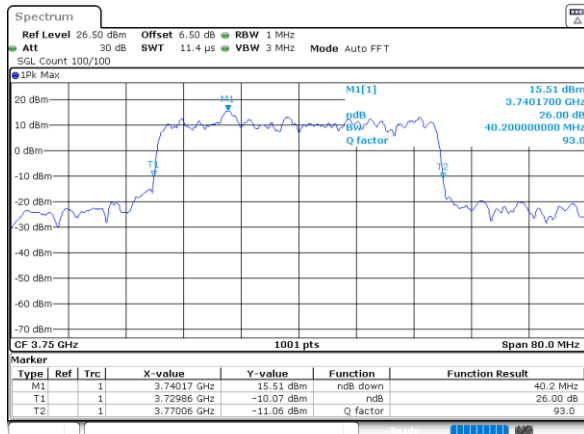
QPSK



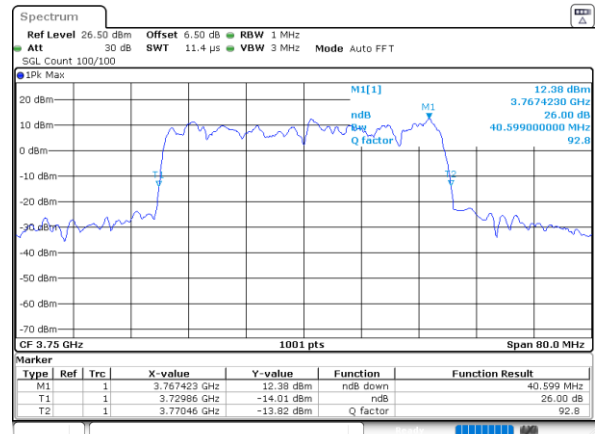
16QAM



64QAM

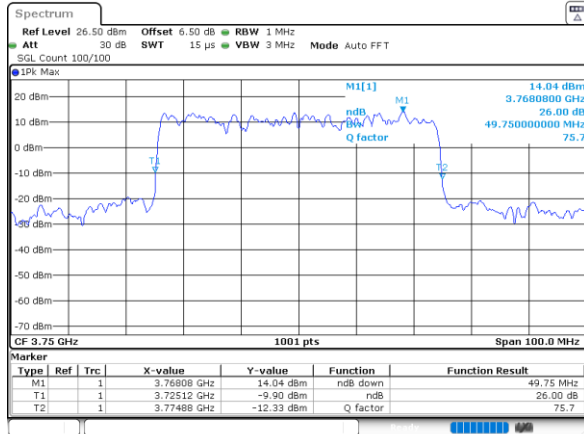


256QAM

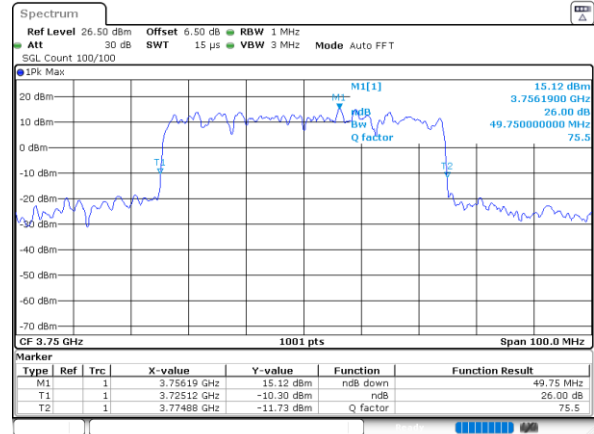


50MHz CP

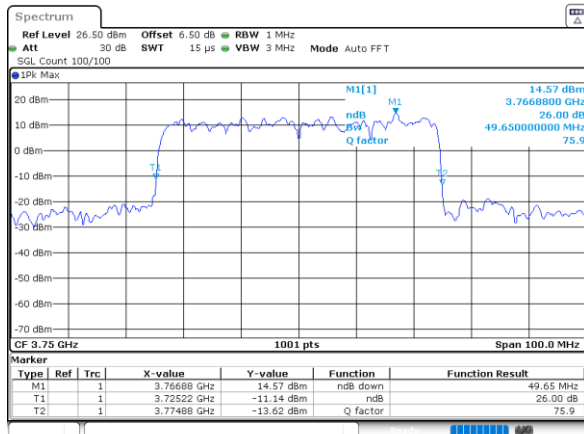
QPSK



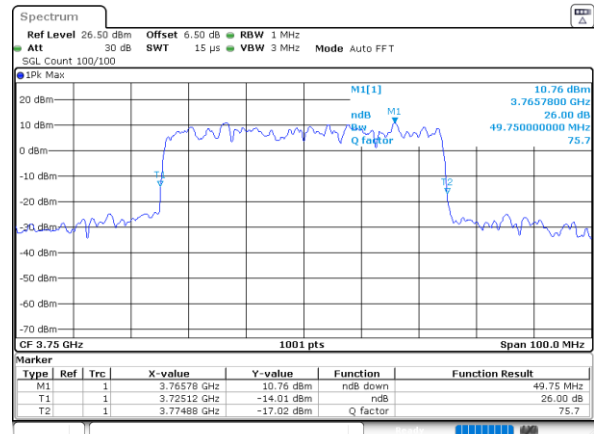
16QAM



64QAM



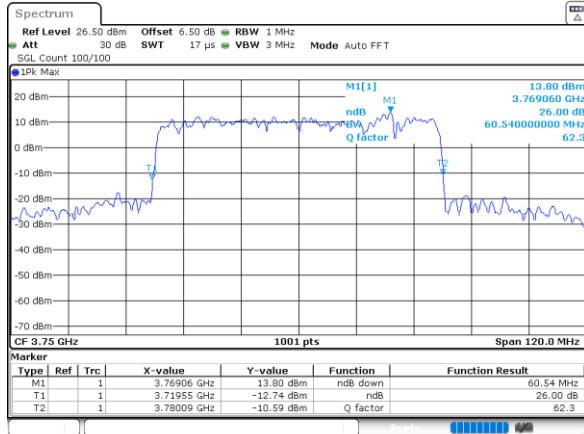
256QAM



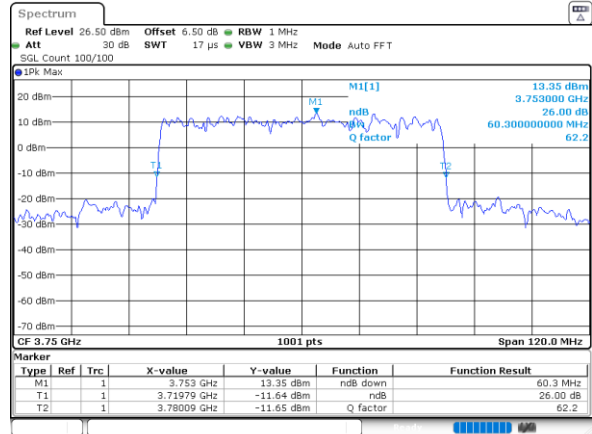


60MHz CP

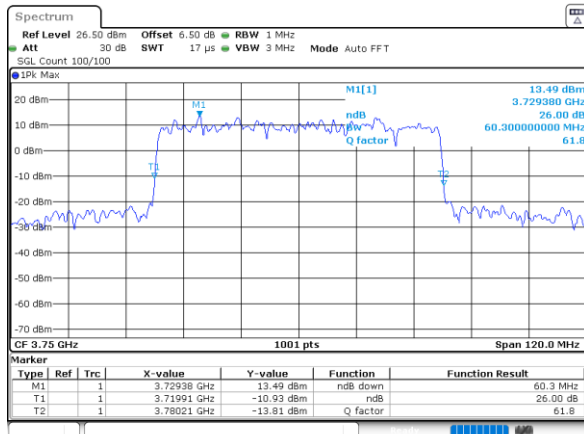
QPSK



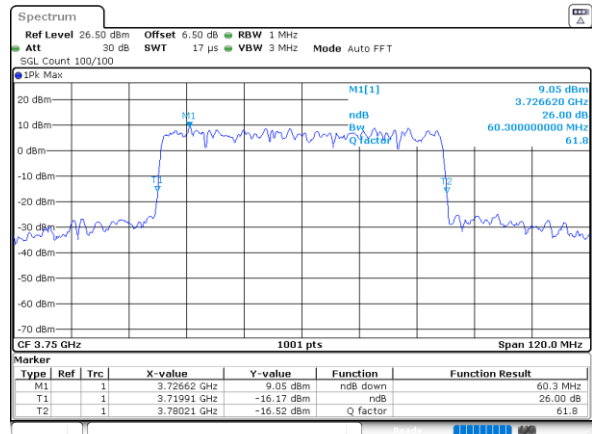
16QAM



64QAM



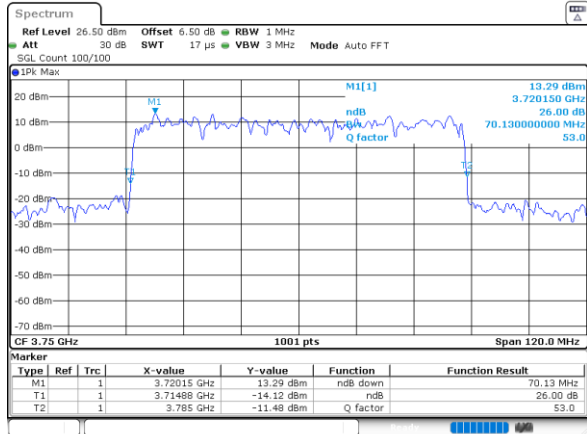
256QAM



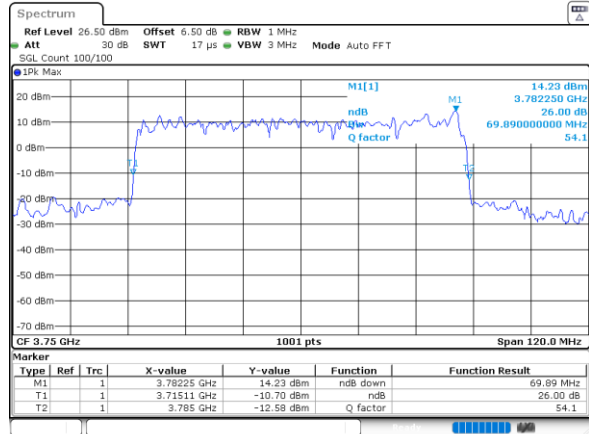


70MHz CP

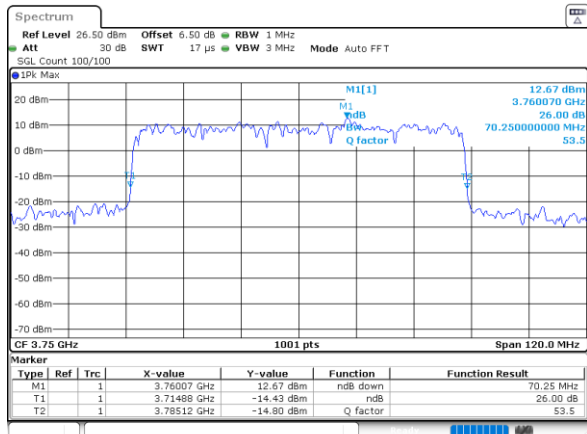
QPSK



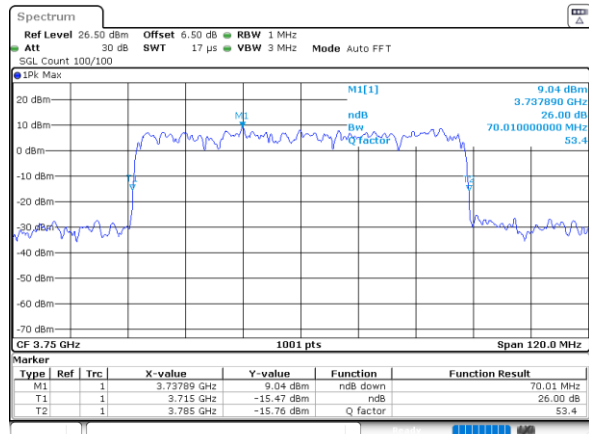
16QAM



64QAM

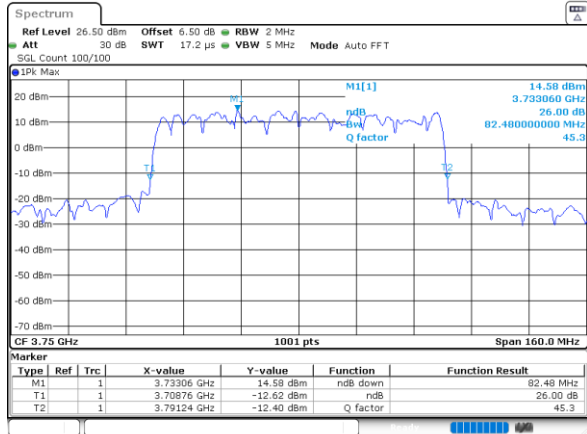


256QAM

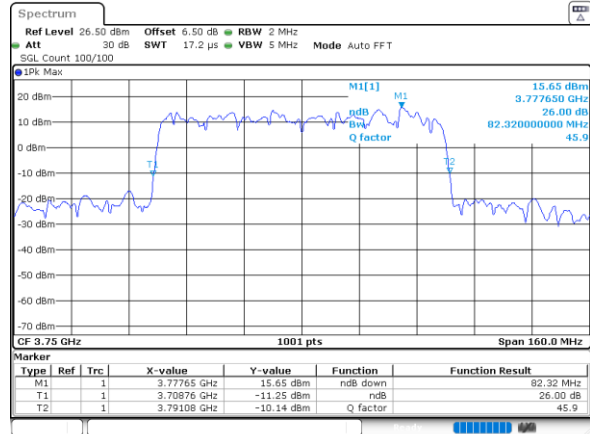


80MHz CP

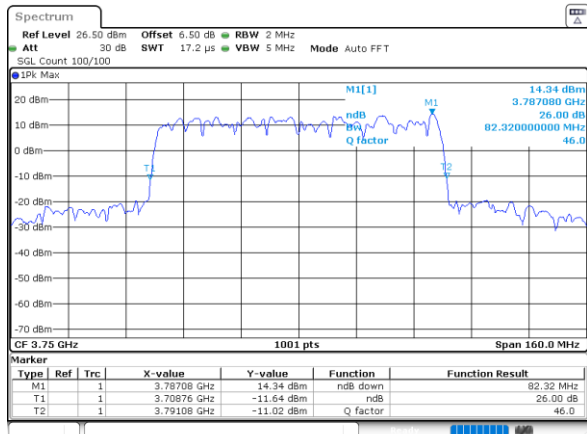
QPSK



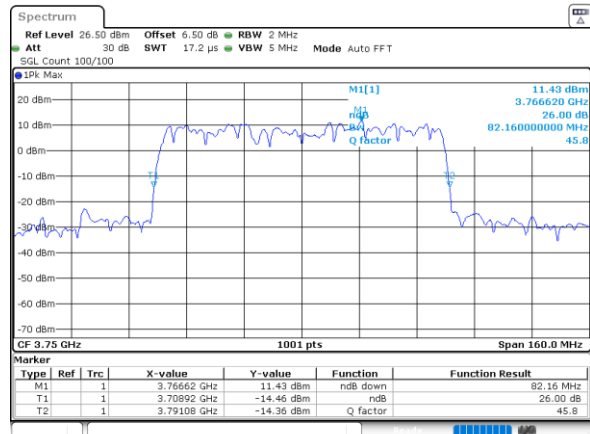
16QAM



64QAM



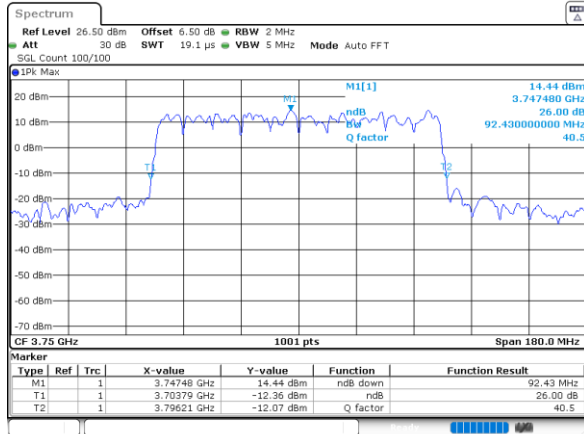
256QAM



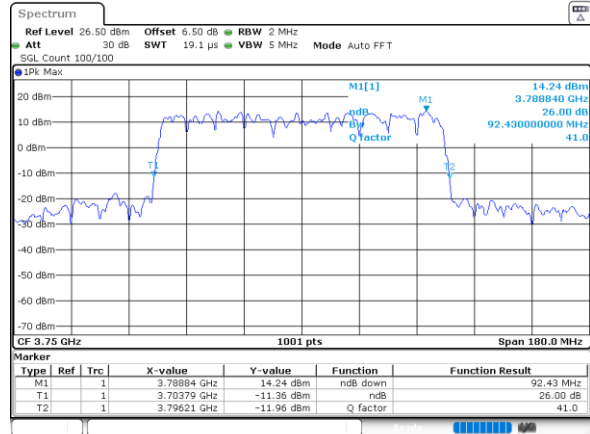


90MHz CP

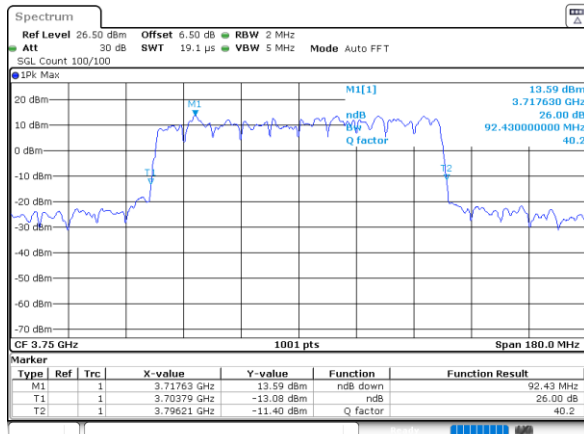
QPSK



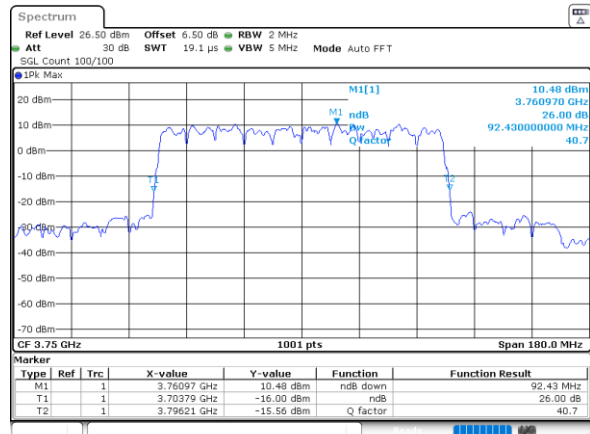
16QAM



64QAM



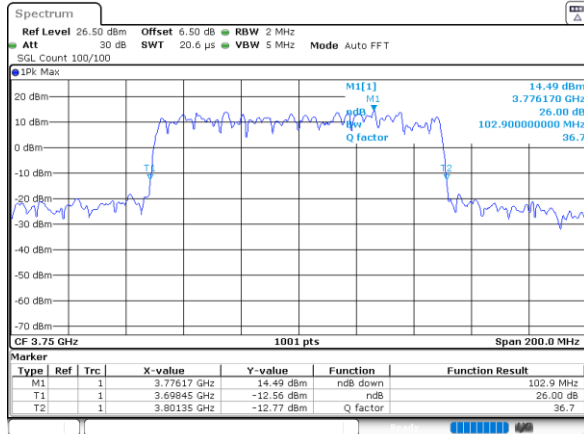
256QAM



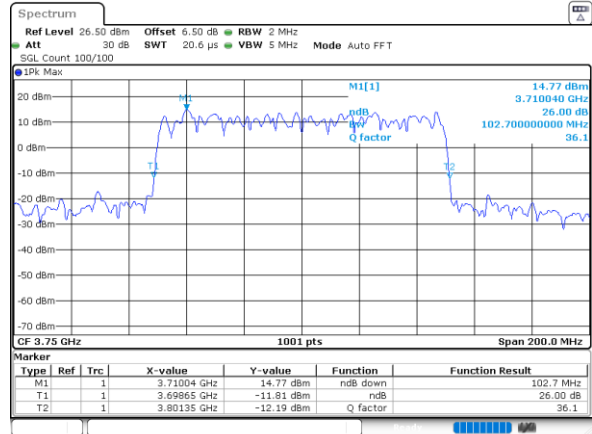


100MHz CP

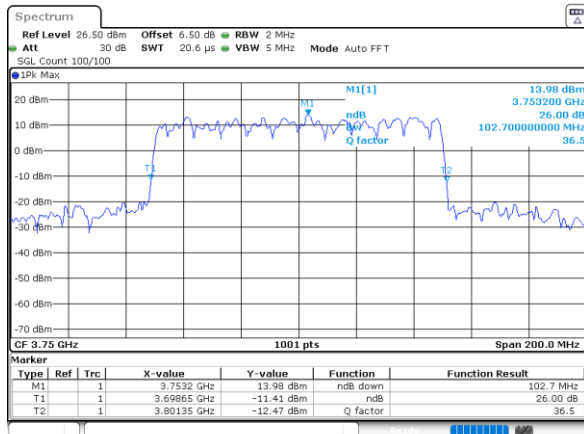
QPSK



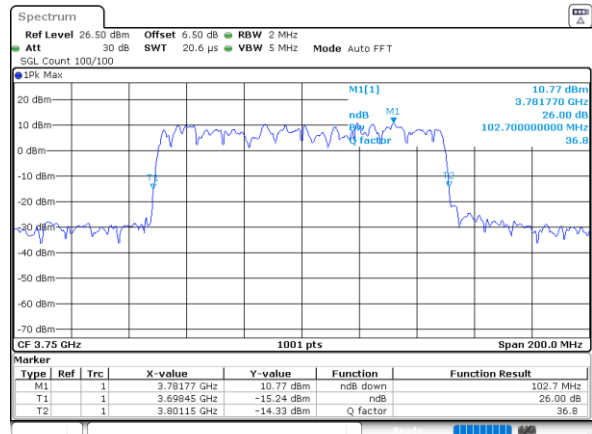
16QAM



64QAM



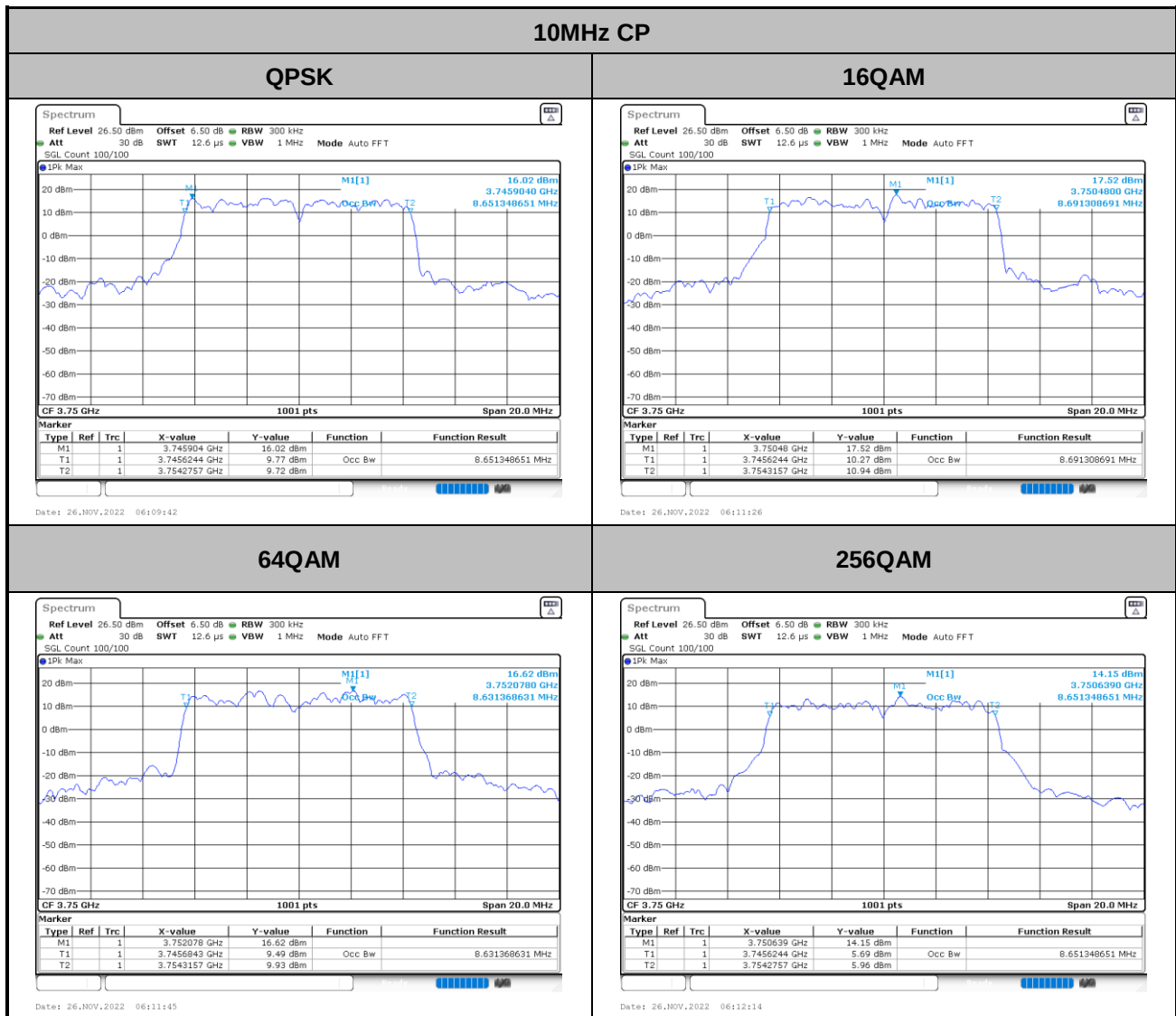
256QAM



Occupied Bandwidth

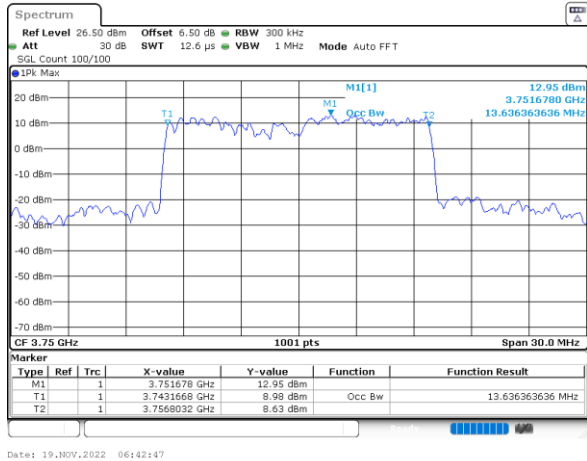
Mode	FR1 n78 : OB BW(10 MHz) / CP OFDM				
BW	CP				
Mod.	QPSK	16QAM	64QAM	256QAM	
Middle CH	8.65	8.69	8.63	8.65	
Mode	FR1 n78 : OB BW(15 MHz) / CP OFDM				
BW	CP				
Mod.	QPSK	16QAM	64QAM	256QAM	
Middle CH	13.64	13.55	13.58	13.64	
Mode	FR1 n78 : OB BW(20 MHz) / CP OFDM				
BW	CP				
Mod.	QPSK	16QAM	64QAM	256QAM	
Middle CH	18.30	18.22	18.22	18.10	
Mode	FR1 n78 : OB BW(30 MHz) / CP OFDM				
BW	CP				
Mod.	QPSK	16QAM	64QAM	256QAM	
Middle CH	27.73	27.81	27.69	27.81	
Mode	FR1 n78 : OB BW(40 MHz) / CP OFDM				
BW	CP				
Mod.	QPSK	16QAM	64QAM	256QAM	
Middle CH	38.12	38.04	37.88	37.80	
Mode	FR1 n78 : OB BW(50 MHz) / CP OFDM				
BW	CP				
Mod.	QPSK	16QAM	64QAM	256QAM	
Middle CH	47.55	47.55	47.45	47.75	
Mode	FR1 n78 : OB BW(60 MHz) / CP OFDM				
BW	CP				
Mod.	QPSK	16QAM	64QAM	256QAM	
Middle CH	57.66	58.02	58.02	57.66	
Mode	FR1 n78 : OB BW(70 MHz) / CP OFDM				
BW	CP				
Mod.	QPSK	16QAM	64QAM	256QAM	
Middle CH	67.01	67.37	67.61	67.37	
Mode	FR1 n78 : OB BW(80 MHz) / CP OFDM				
BW	CP				
Mod.	QPSK	16QAM	64QAM	256QAM	
Middle CH	78.00	77.68	78.48	77.68	

Mode	FR1 n78 : OB BW(90 MHz) / CP OFDM				
BW	CP				
Mod.	QPSK	16QAM	64QAM	256QAM	
Middle CH	87.21	87.57	87.57	87.75	
Mode	FR1 n78 : OB BW(100 MHz) / CP OFDM				
BW	CP				
Mod.	QPSK	16QAM	64QAM	256QAM	
Middle CH	97.70	97.50	97.90	97.10	

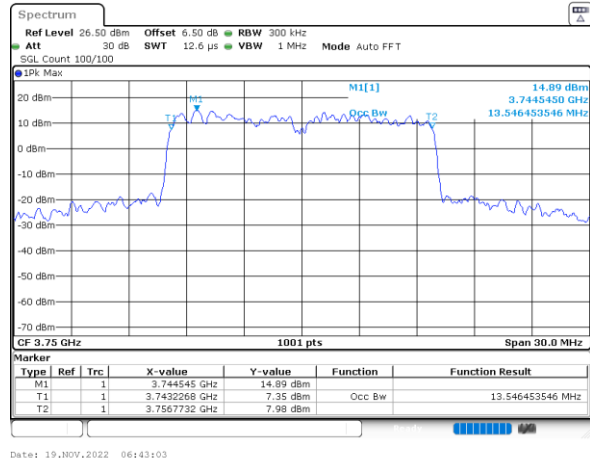


15MHz CP

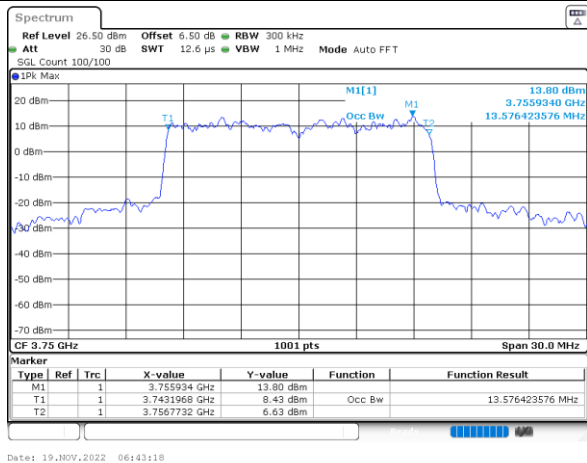
QPSK



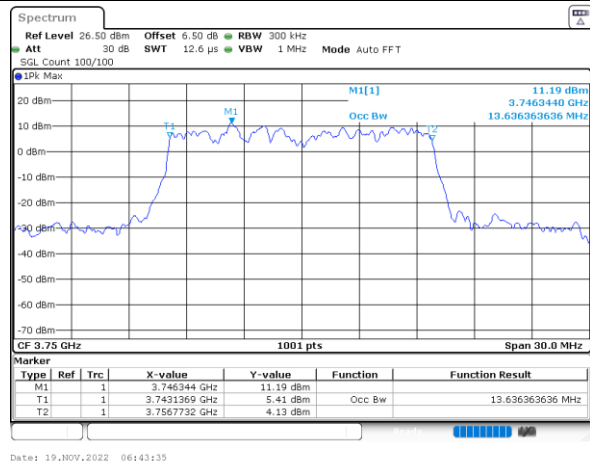
16QAM



64QAM

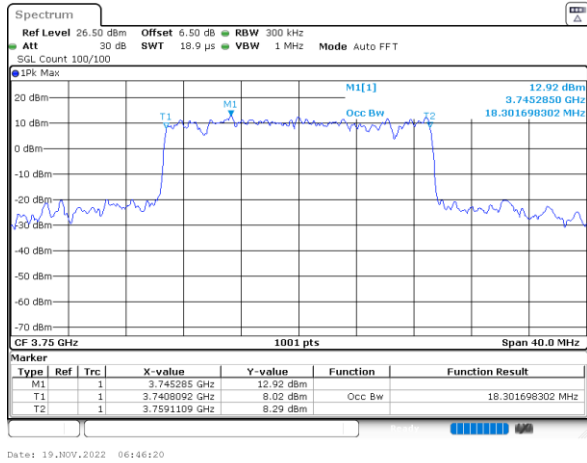


256QAM

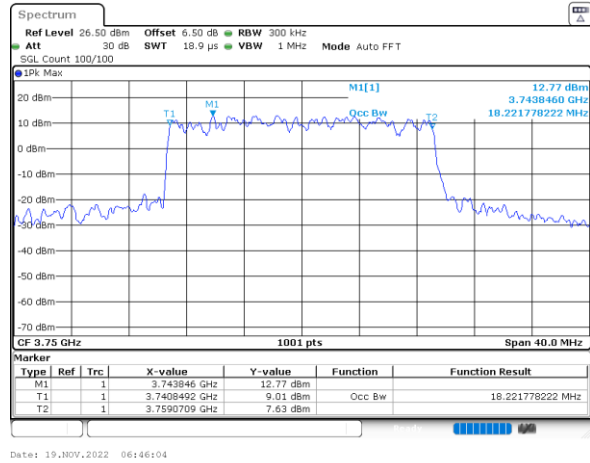


20MHz CP

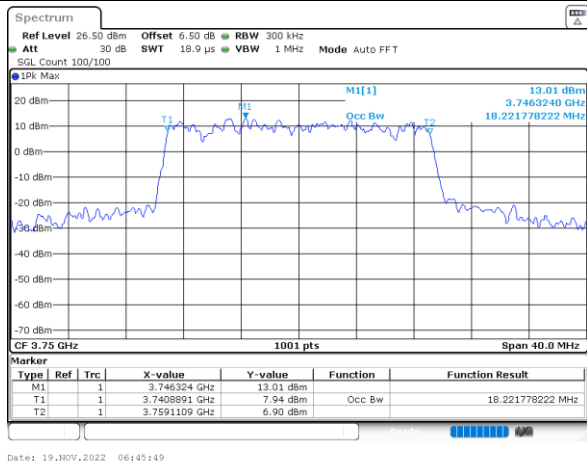
QPSK



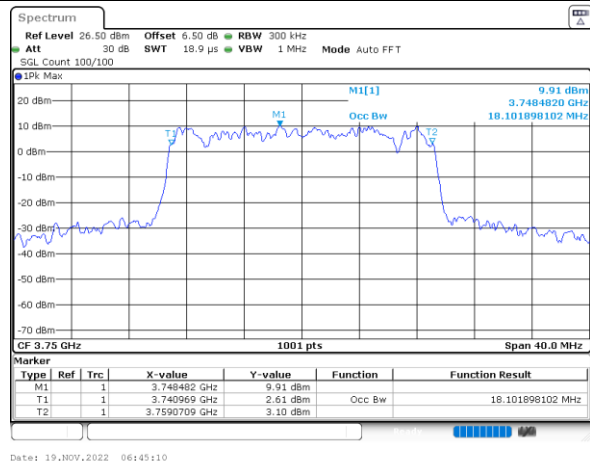
16QAM



64QAM

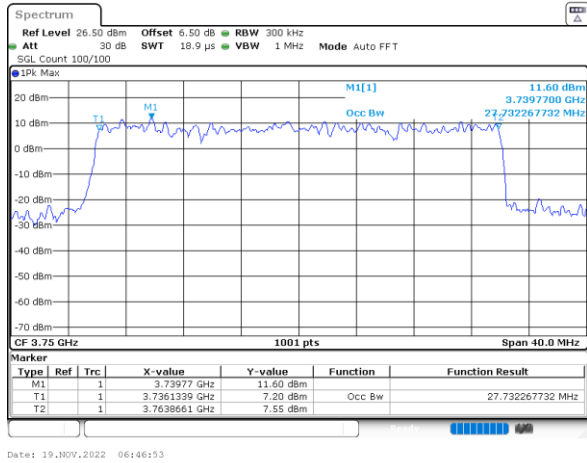


256QAM

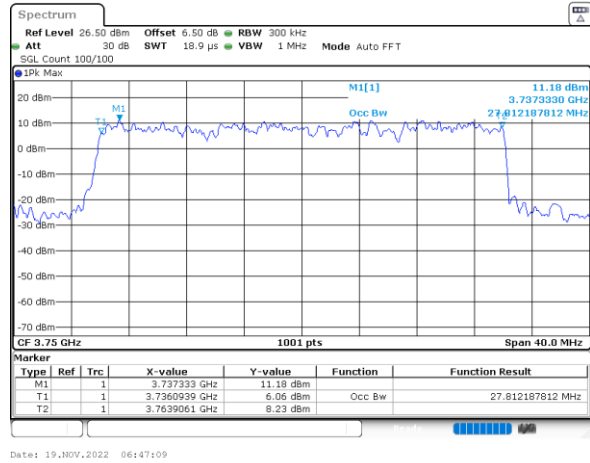


30MHz CP

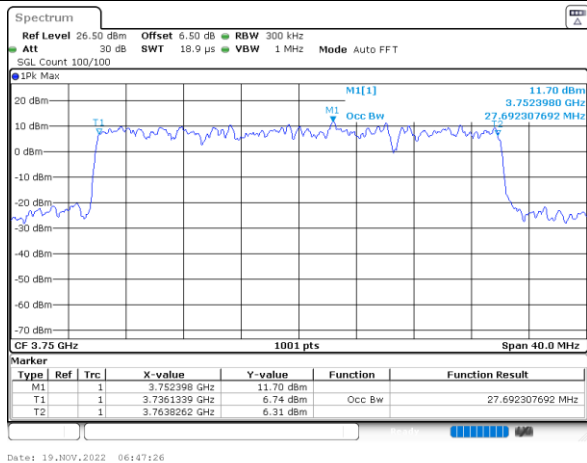
QPSK



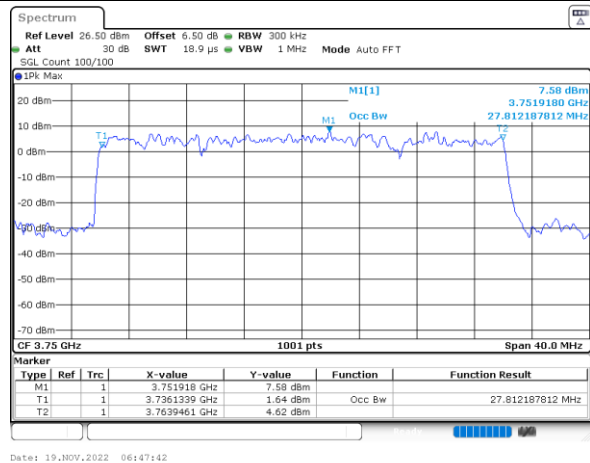
16QAM



64QAM

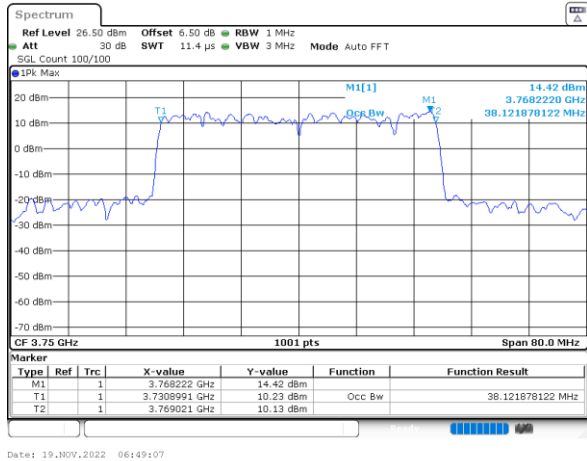


256QAM

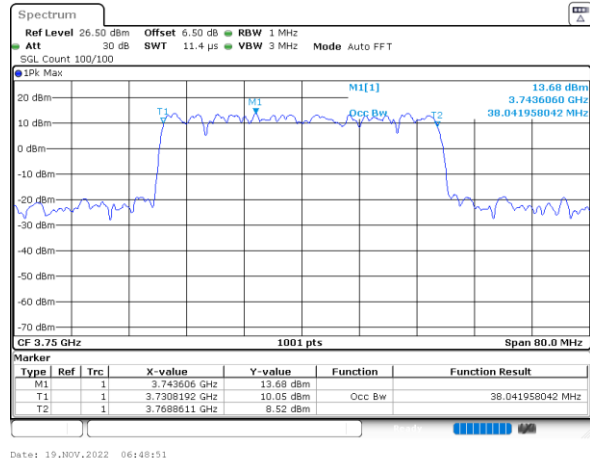


40MHz CP

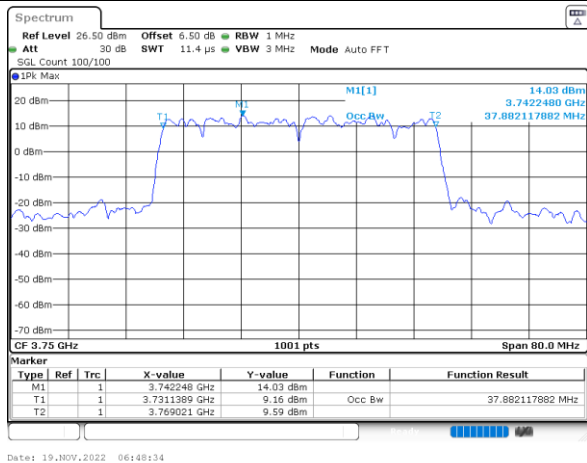
QPSK



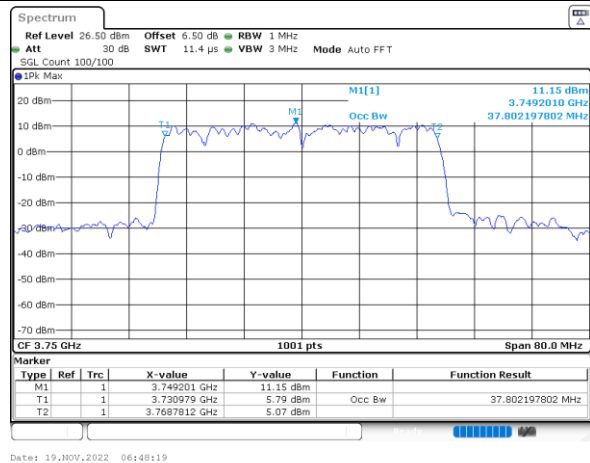
16QAM



64QAM

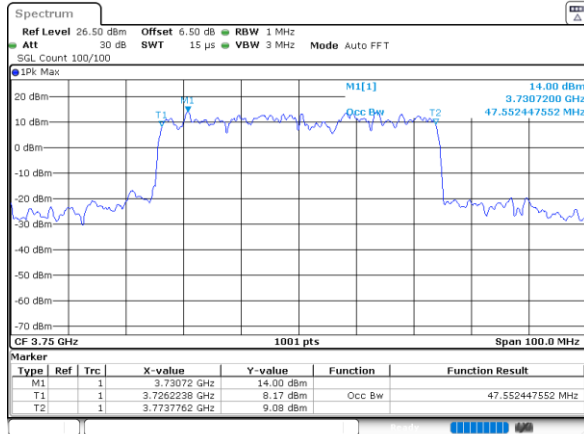


256QAM

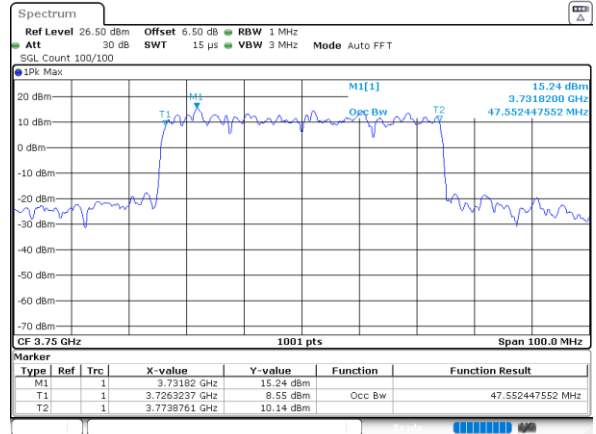


50MHz CP

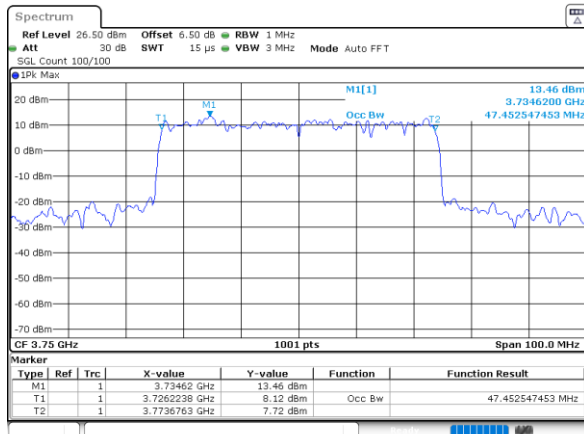
QPSK



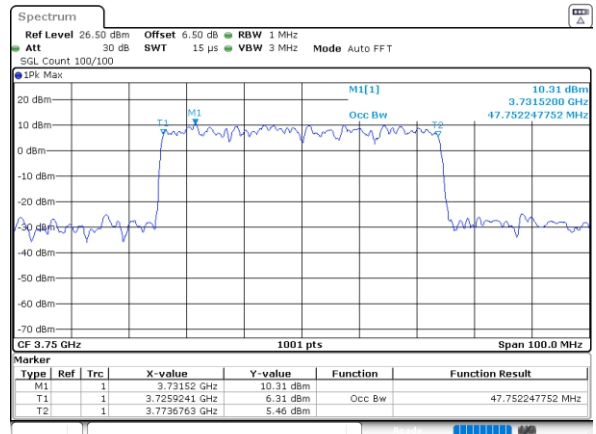
16QAM



64QAM

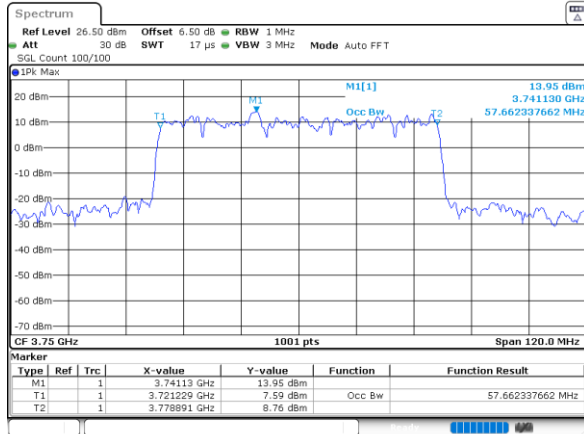


256QAM

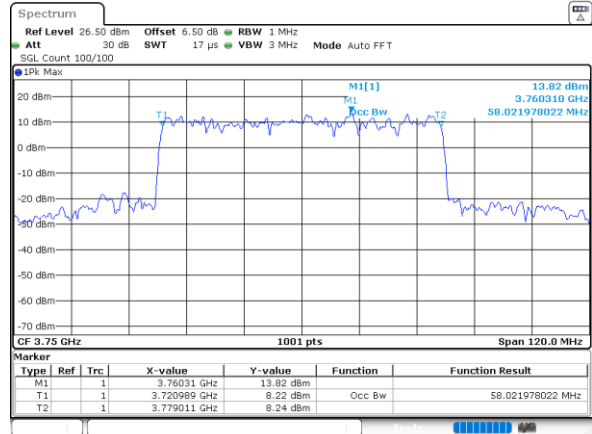


60MHz CP

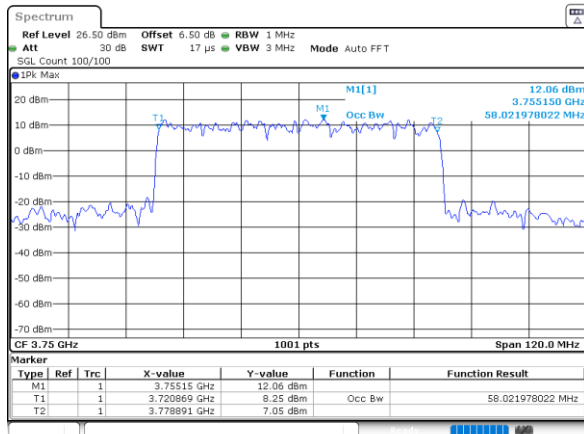
QPSK



16QAM



64QAM



256QAM

