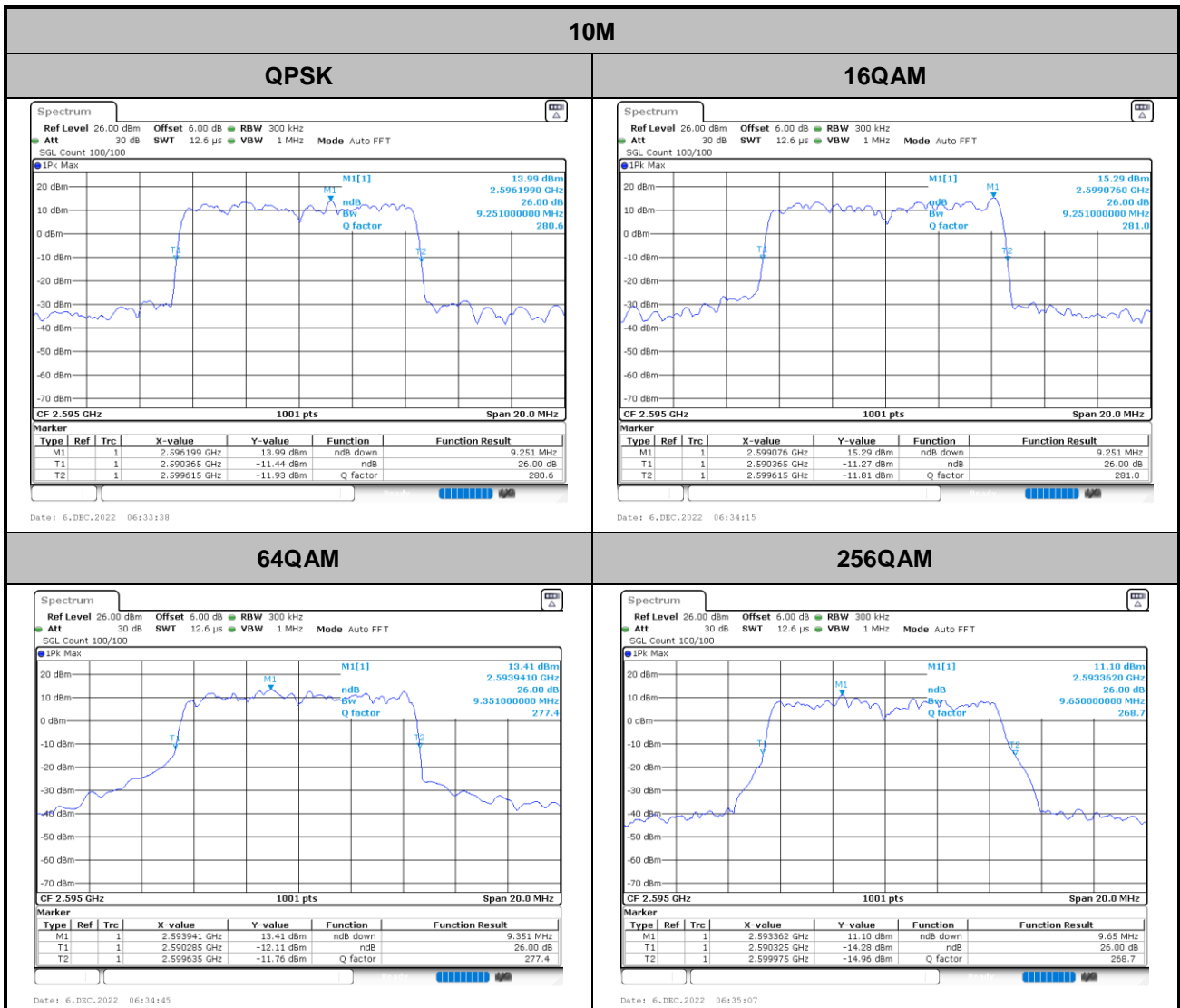




## 26dB Bandwidth

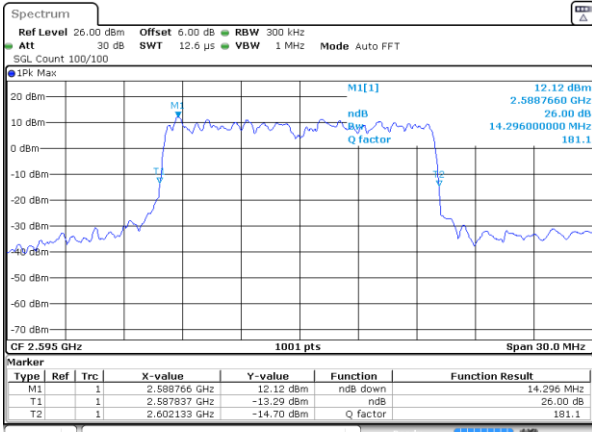
Mode	FR1 n38 : 26dB BW(MHz) / CP OFDM			
BW	10M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	9.25	9.25	9.35	9.65
Mode	FR1 n38 : 26dB BW(MHz) / CP OFDM			
BW	15M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	14.30	14.81	14.42	14.87





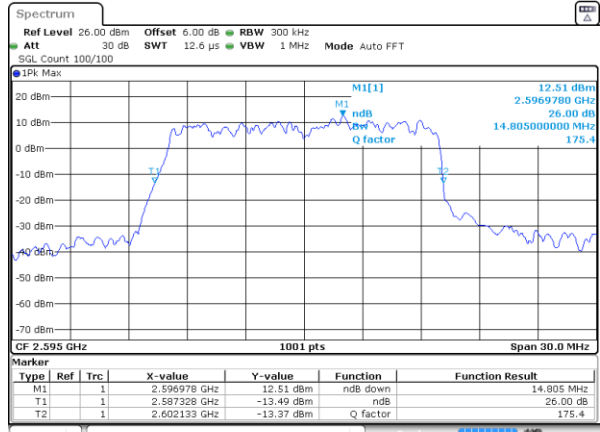
15M

QPSK



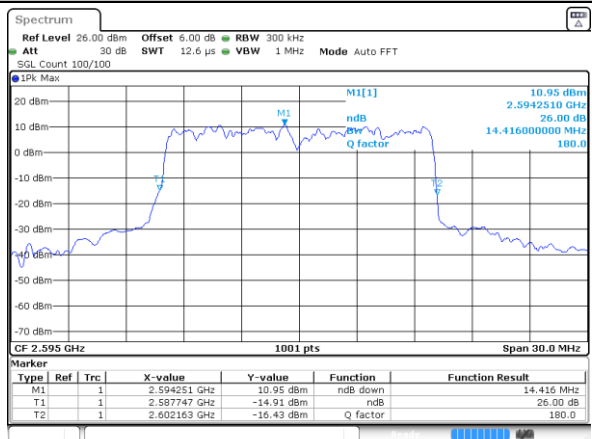
Date: 15 DEC 2022 09:31:40

16QAM



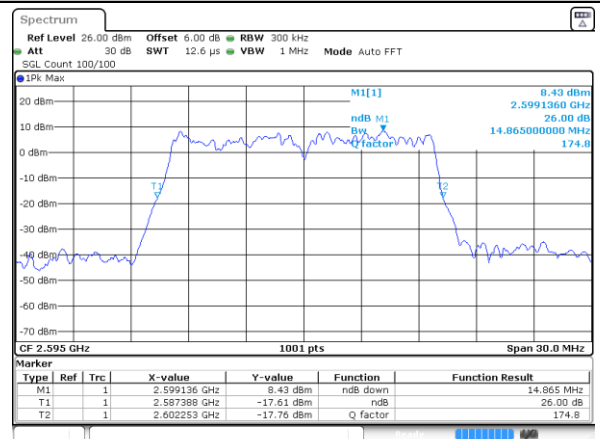
Date: 15 DEC 2022 09:31:57

64QAM



Date: 15 DEC 2022 09:32:13

256QAM

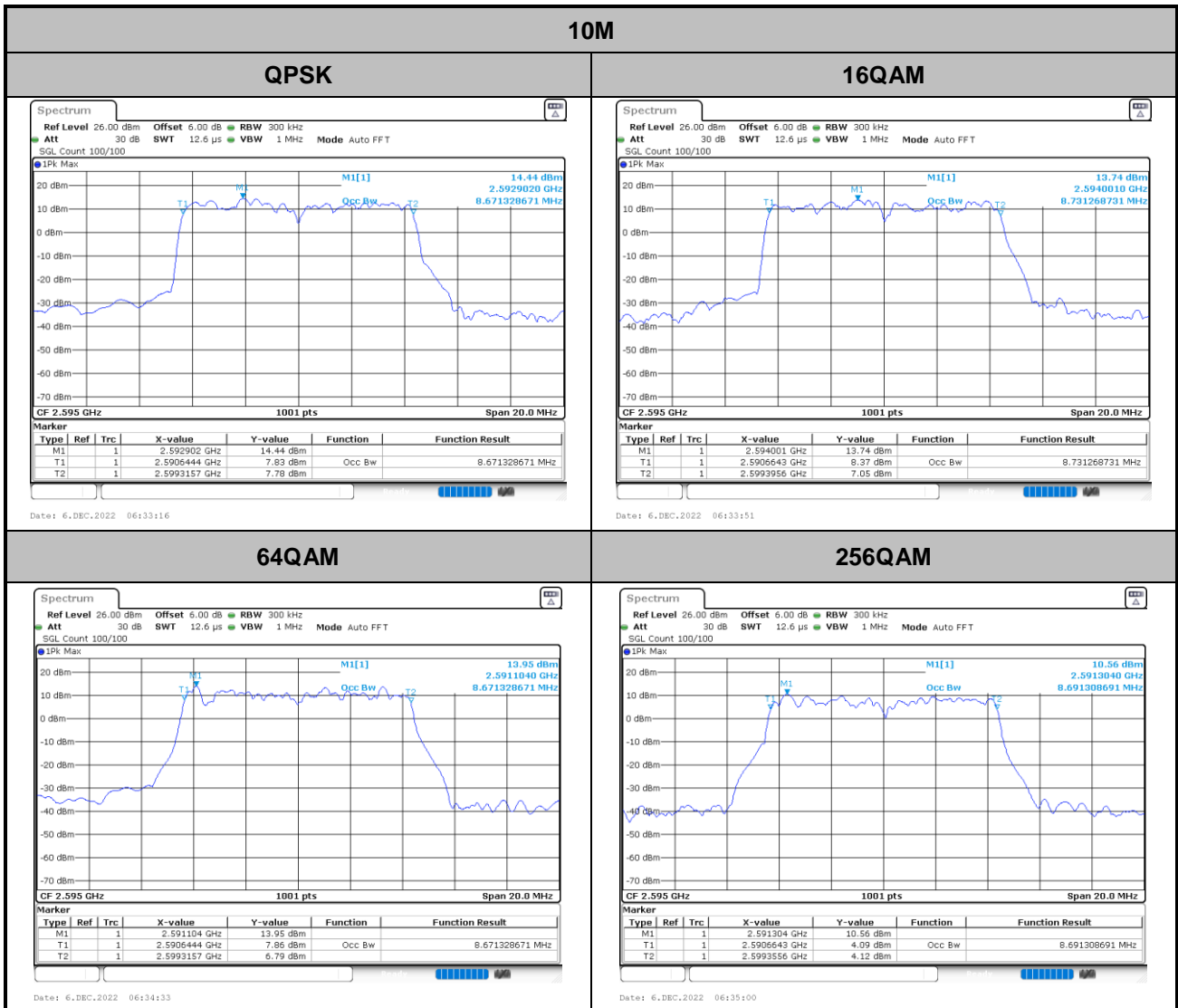


Date: 15 DEC 2022 09:32:51



# Occupied Bandwidth

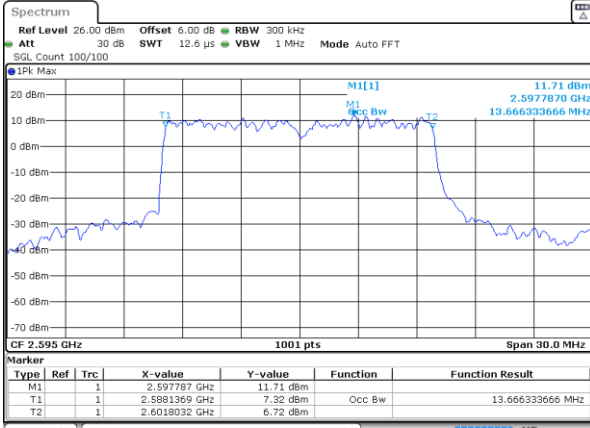
<b>Mode</b>	<b>FR1 n38: OB BW(MHz) / CP OFDM</b>			
<b>BW</b>	<b>10M</b>			
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	8.67	8.73	8.67	8.69
<b>Mode</b>	<b>FR1 n38: OB BW(MHz) / CP OFDM</b>			
<b>BW</b>	<b>15M</b>			
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	13.67	13.67	13.61	13.46





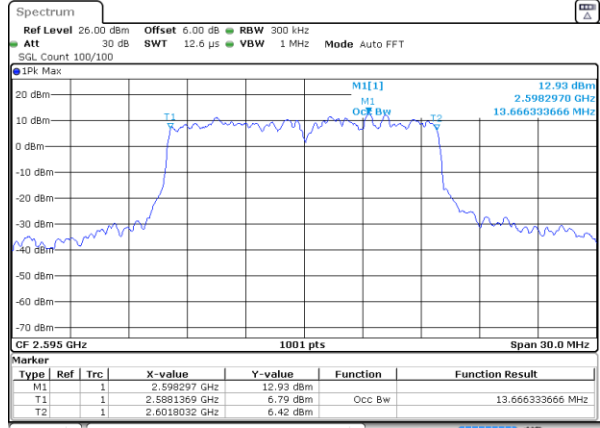
15M

QPSK



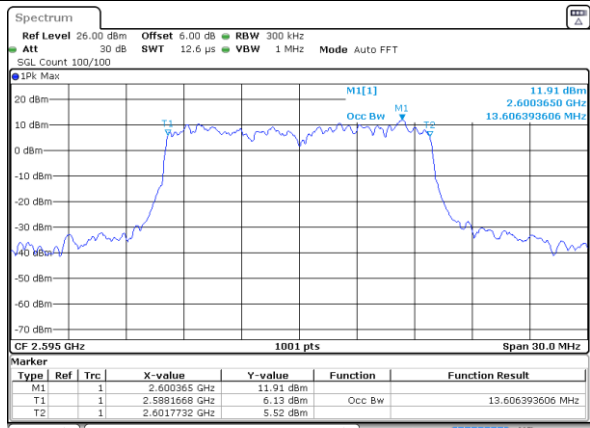
Date: 15 DEC 2022 09:31:33

16QAM



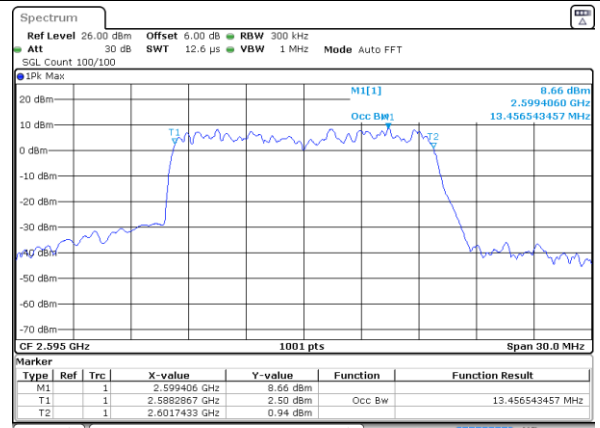
Date: 15 DEC 2022 09:31:51

64QAM



Date: 15 DEC 2022 09:32:07

256QAM



Date: 15 DEC 2022 09:32:46

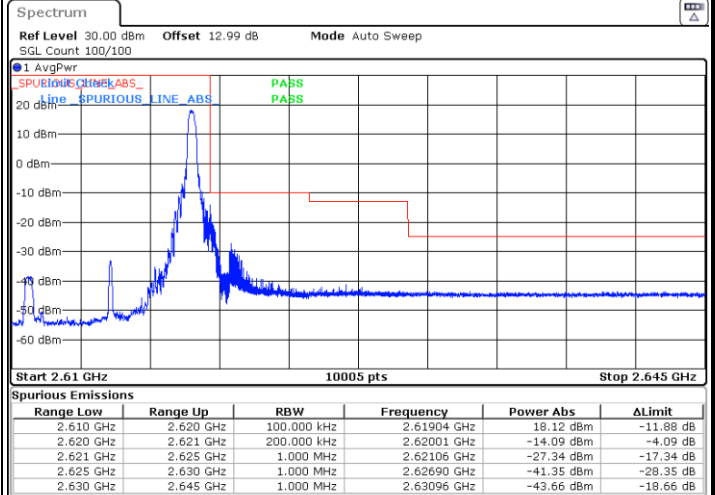
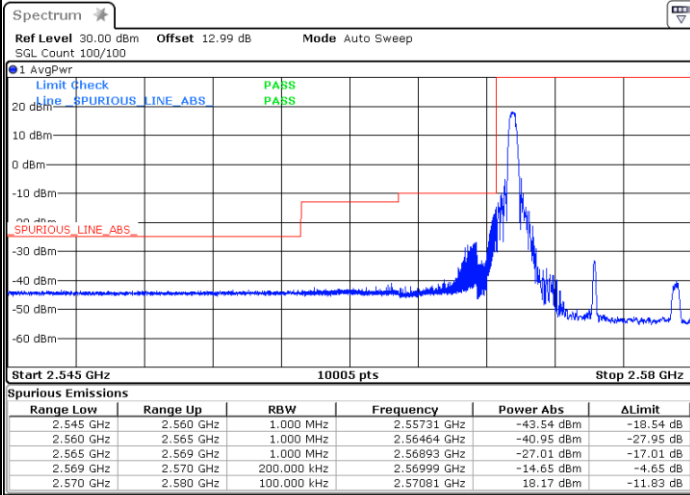


# Conducted Band Edge

FR1 n38/ 10MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

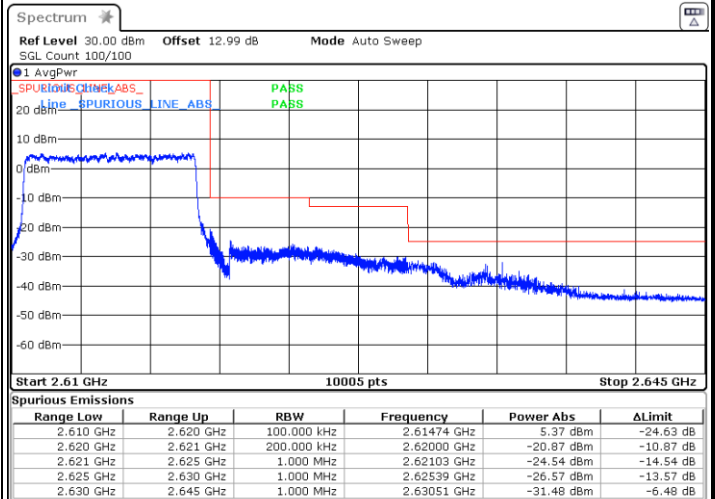
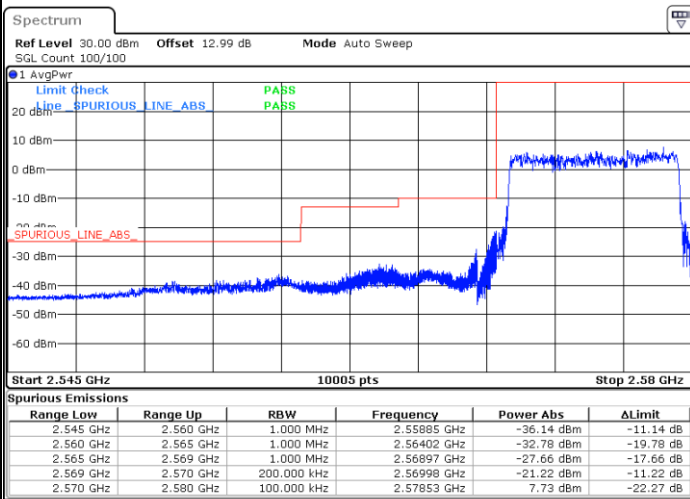


Date: 6.DEC.2022 06:10:00

Date: 6.DEC.2022 06:51:29

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 6.DEC.2022 06:16:22

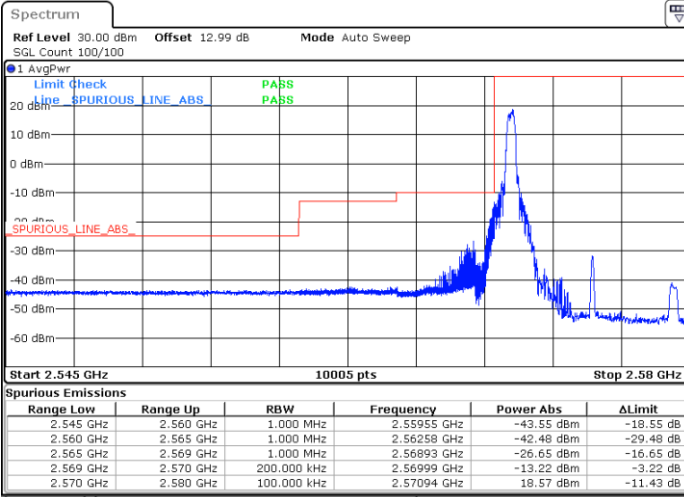
Date: 6.DEC.2022 06:49:10



FR1 n38 / 10MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

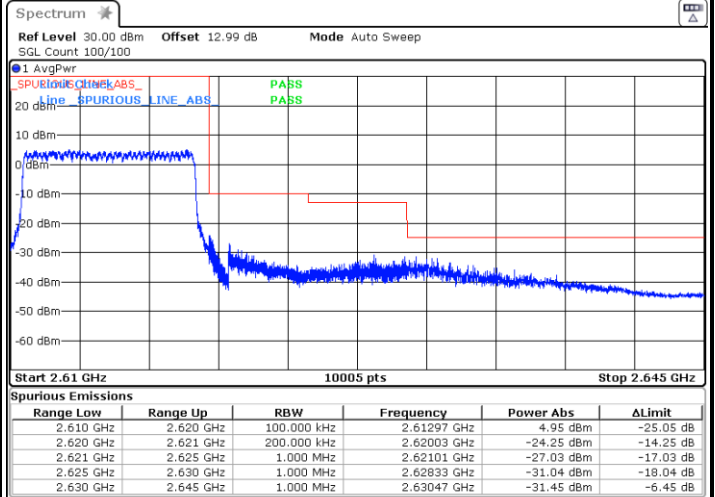
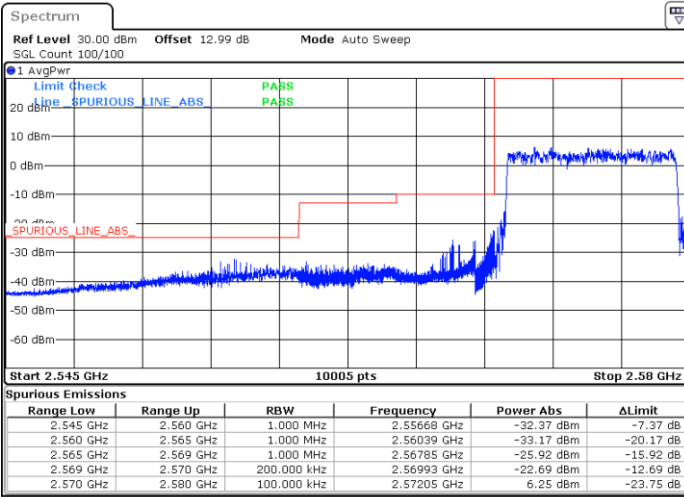


Date: 6.DEC.2022 06:15:19

Date: 6.DEC.2022 06:51:08

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 6.DEC.2022 06:16:00

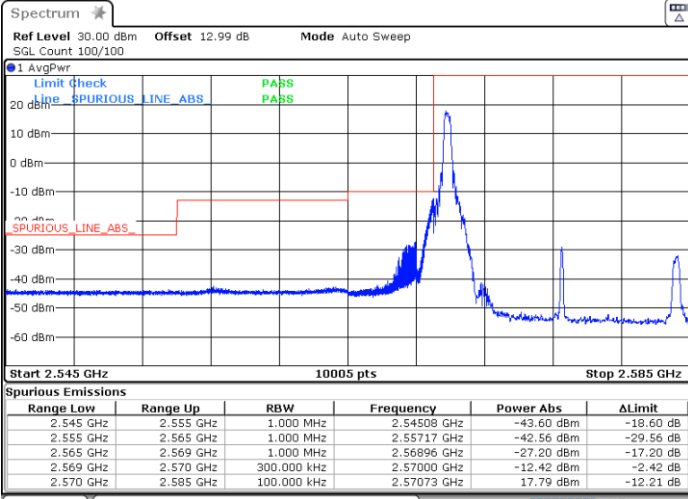
Date: 6.DEC.2022 06:50:03



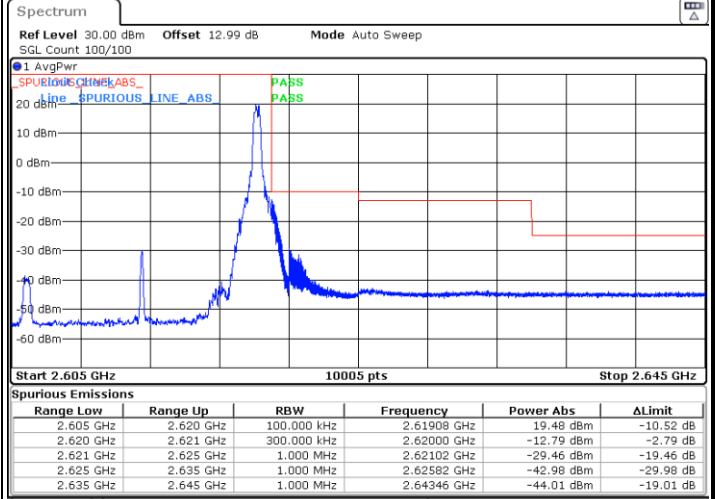
FR1 n38/ 15MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



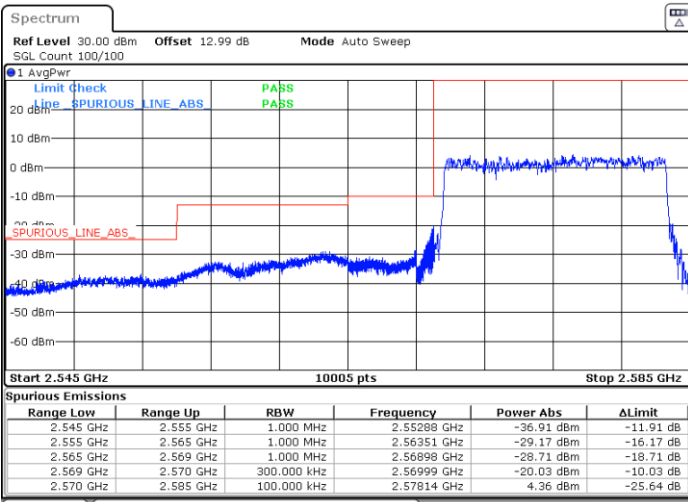
Date: 15.DEC.2022 23:01:04



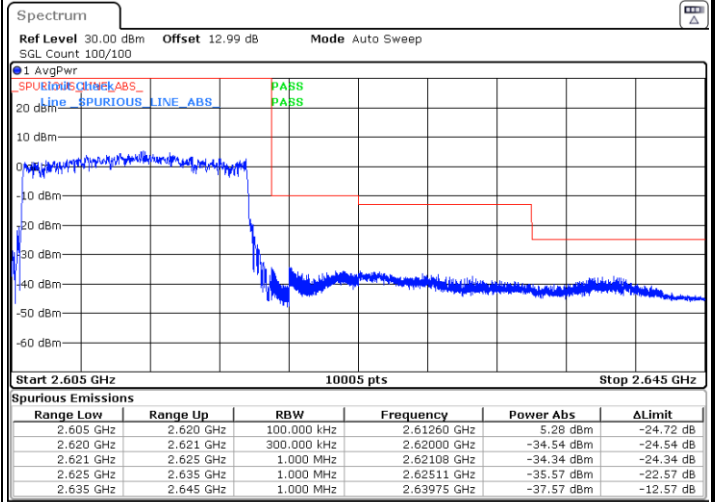
Date: 15.DEC.2022 23:03:44

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.DEC.2022 23:02:07



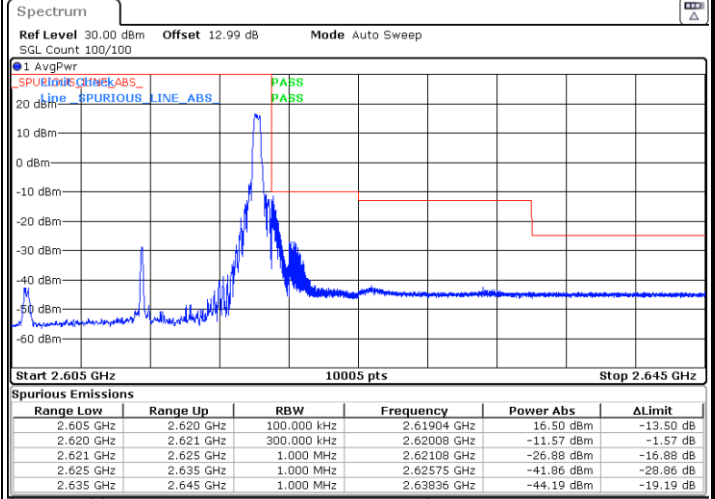
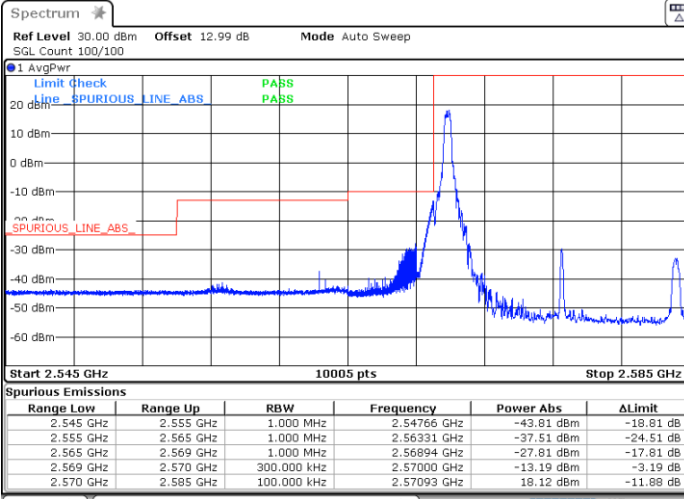
Date: 15.DEC.2022 23:03:21



FR1 n38 / 15MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

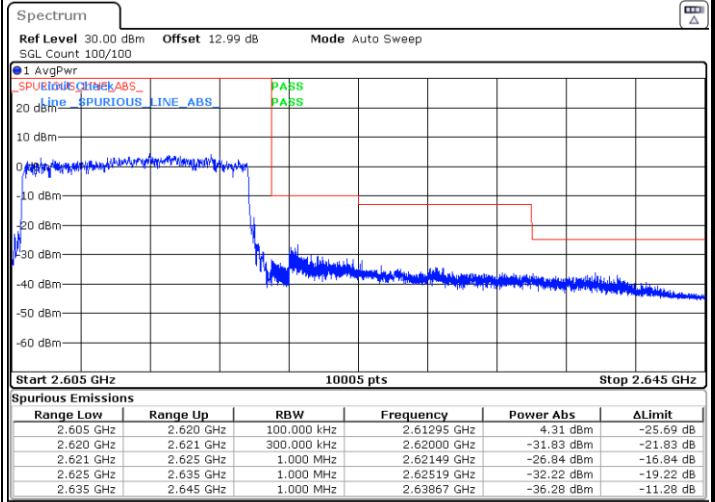
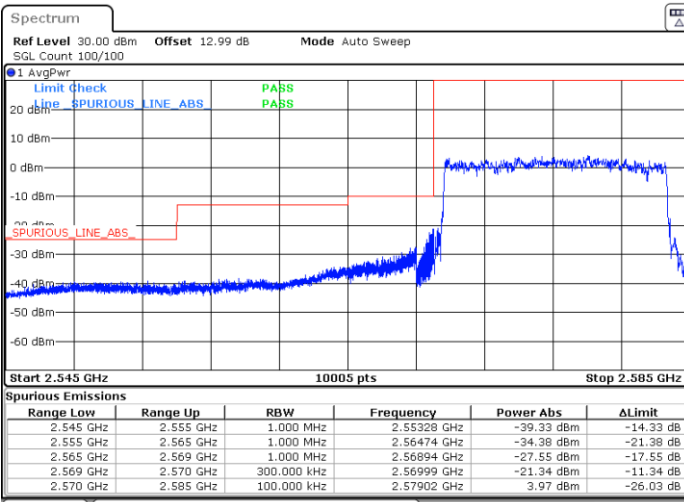


Date: 15.DEC.2022 23:00:32

Date: 15.DEC.2022 23:04:01

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.DEC.2022 23:02:22

Date: 15.DEC.2022 23:03:04



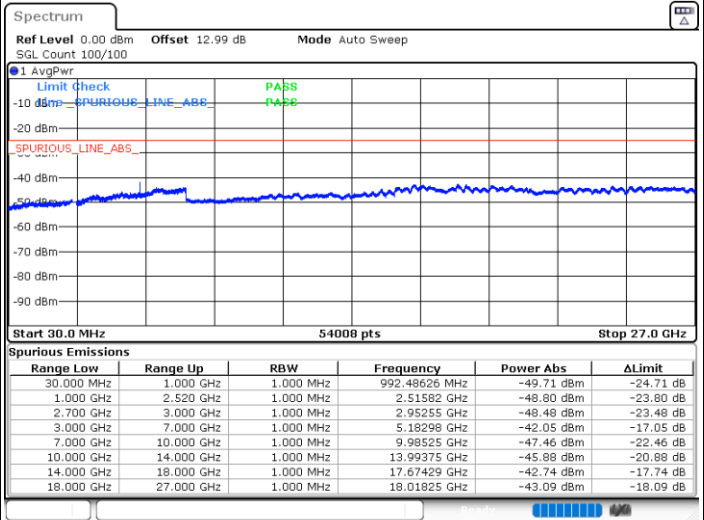
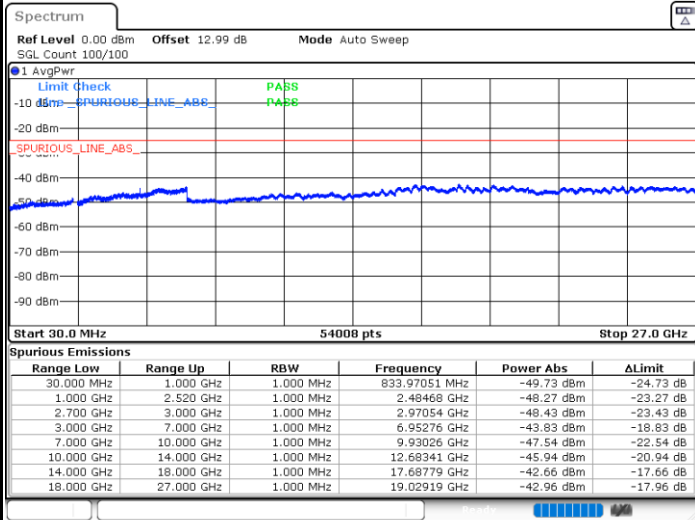


# Conducted Spurious Emission

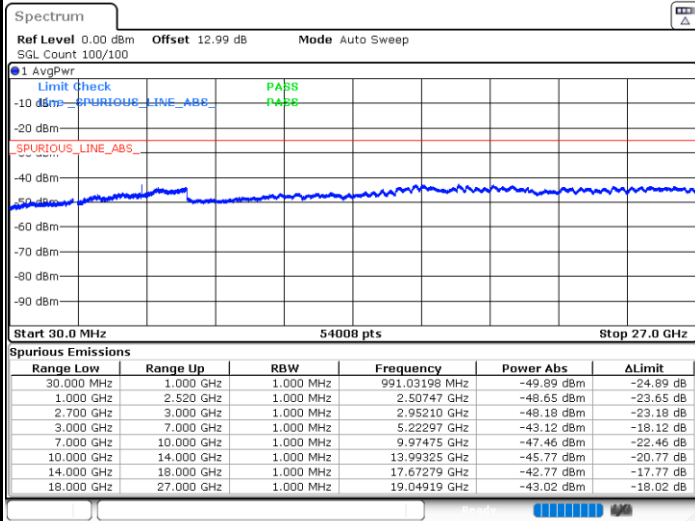
FR1 n38 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1



Highest Channel / 1RB1

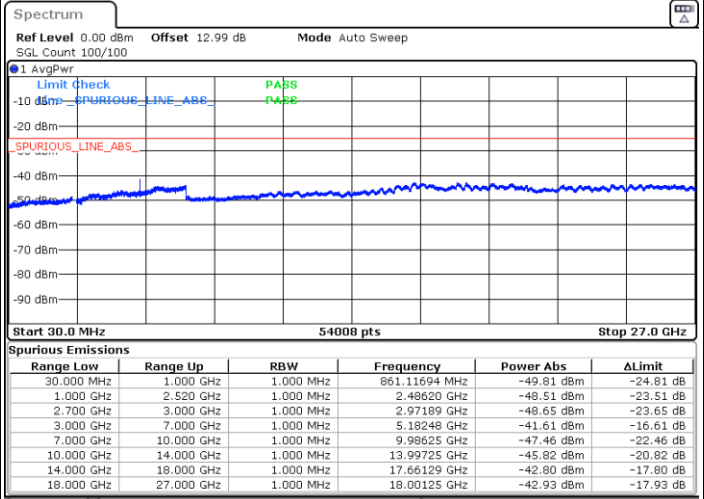
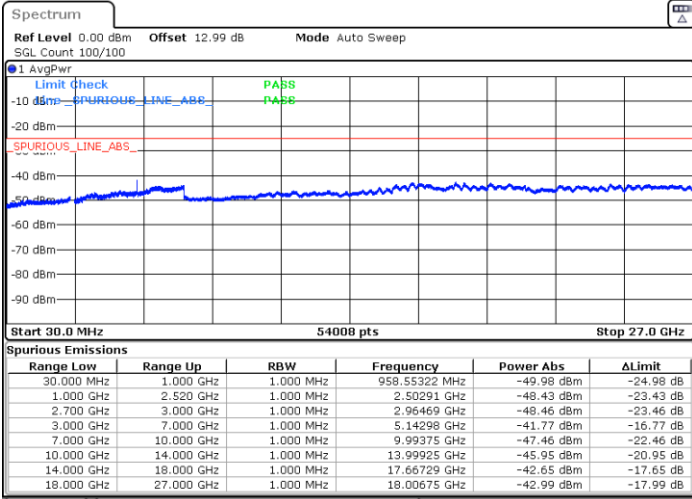




FR1 n38 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

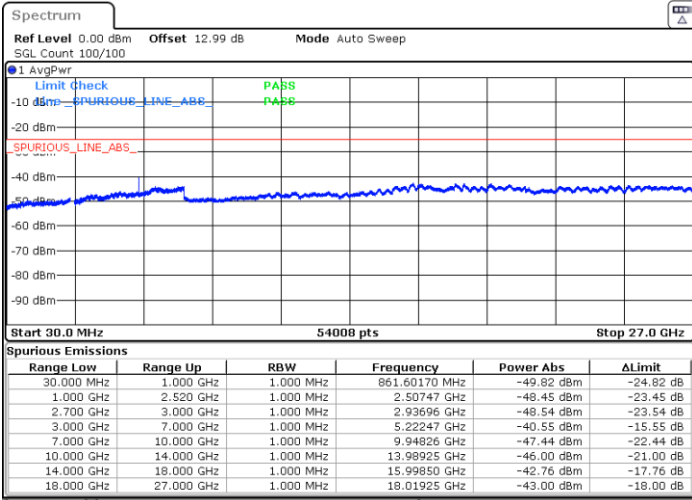
Middle Channel / 1RB1



Date: 6.DEC.2022 06:28:43

Date: 6.DEC.2022 06:30:18

Highest Channel / 1RB1



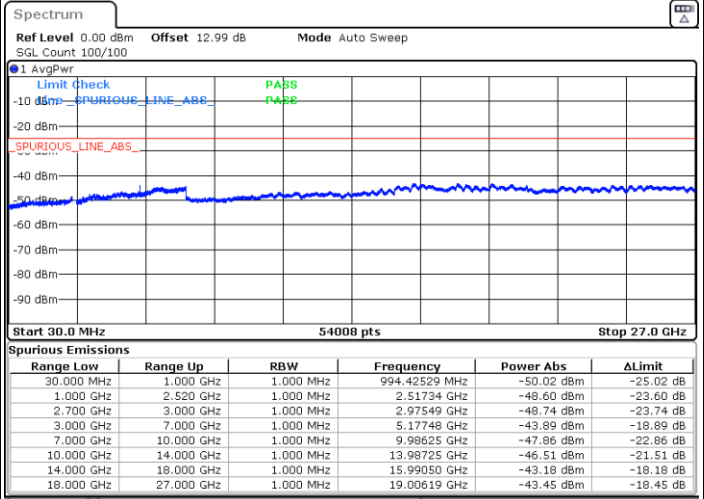
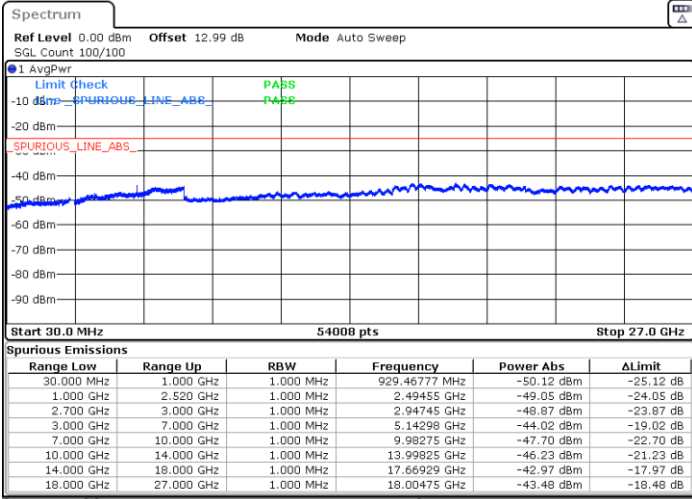
Date: 6.DEC.2022 06:53:50



FR1 n38 / 15MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

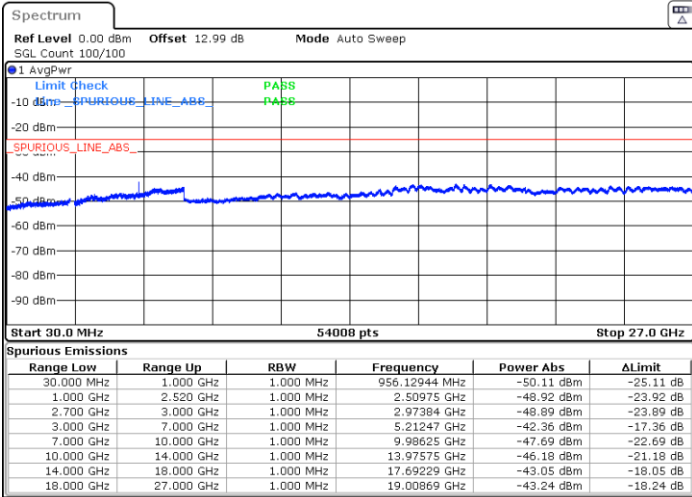
Middle Channel / 1RB1



Date: 15.DEC.2022 22:56:13

Date: 15.DEC.2022 22:55:01

Highest Channel / 1RB1



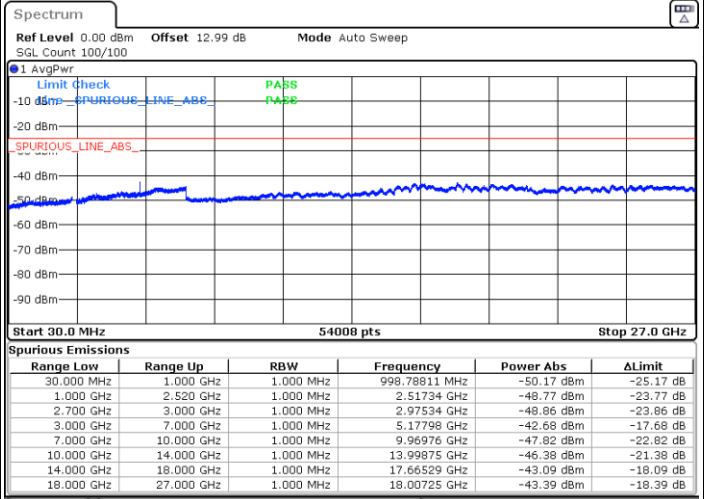
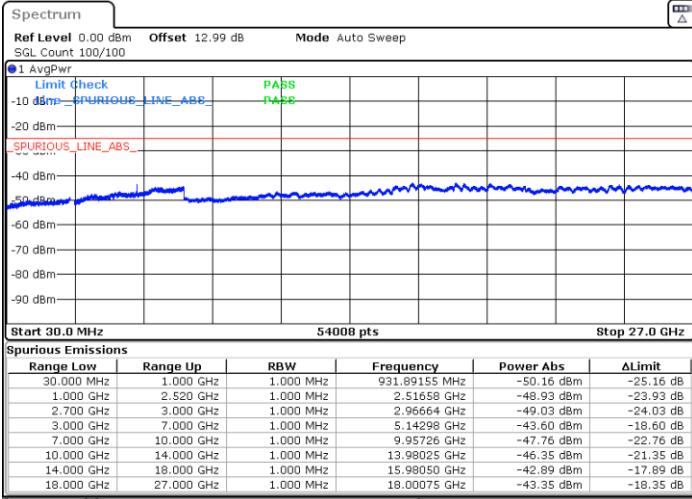
Date: 15.DEC.2022 23:05:51



FR1 n38 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

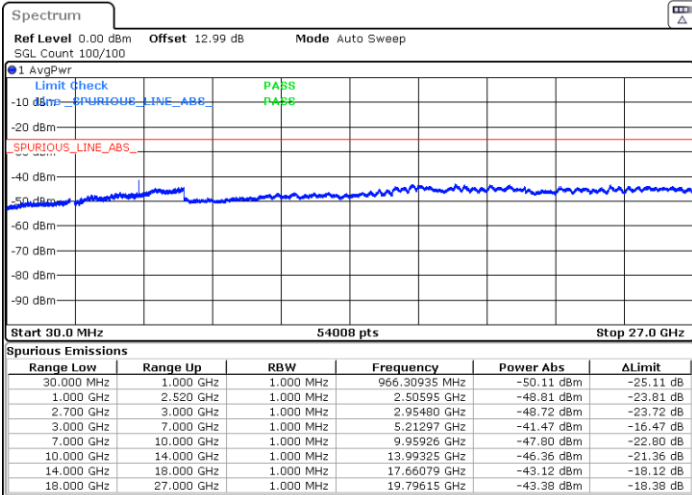
Middle Channel / 1RB1



Date: 15. DEC. 2022 22:57:08

Date: 15. DEC. 2022 22:52:34

Highest Channel / 1RB1



Date: 15. DEC. 2022 23:04:55



Frequency Stability

Test Conditions		FR1 n38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0033	PASS
40	Normal Voltage	0.0036	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0034	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0043	
20	Maximum Voltage	0.0068	
20	Normal Voltage	0.0031	
20	Battery End Point	0.0028	

Note:

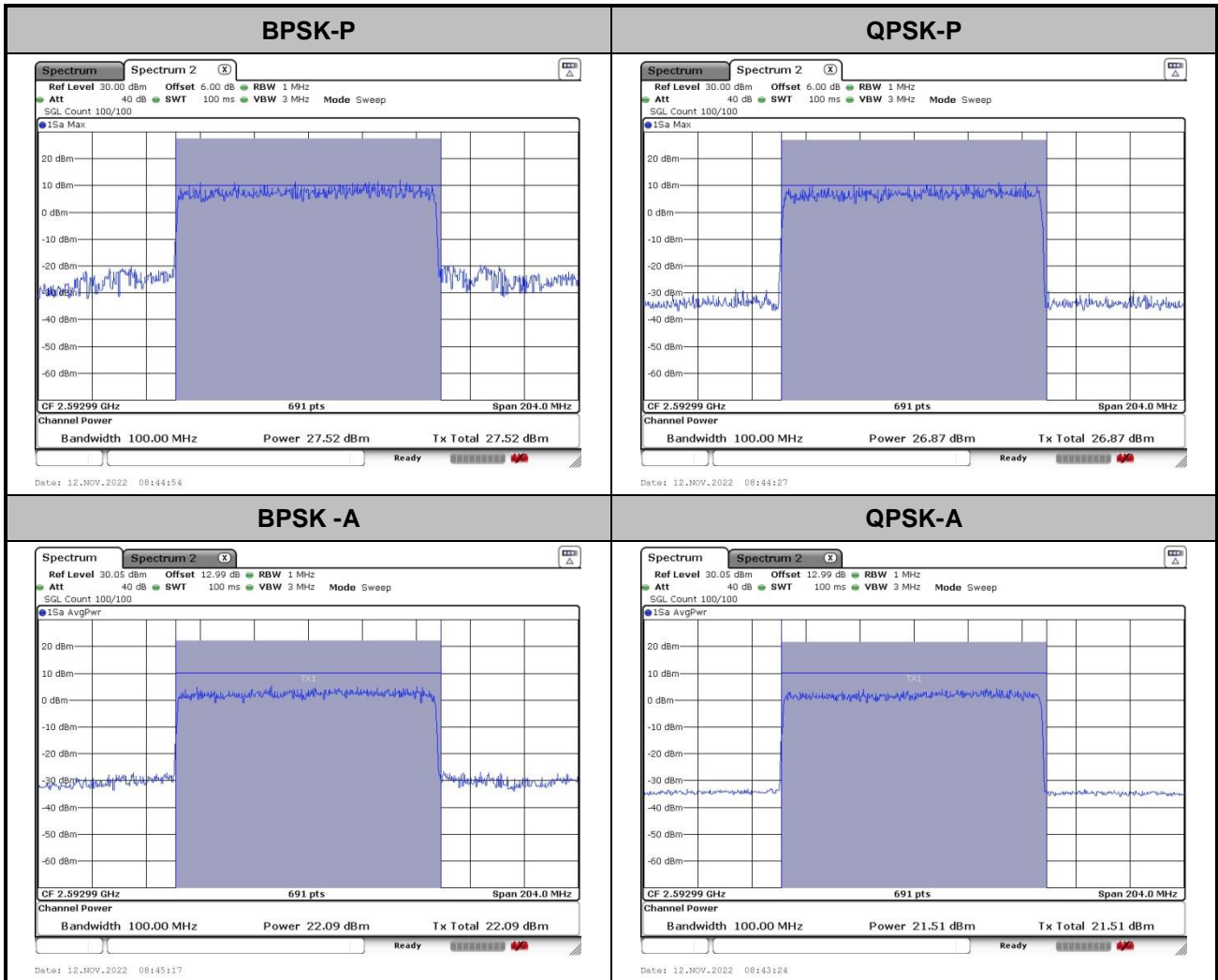
1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# FR1 n41

## Peak-to-Average Ratio

Mode	FR1 n41 / 100MHz / DFT-S OFDM				
Mod.	100M				Limit: 13dB
RB Size	BPSK	QPSK			Result
Middle CH	5.43	5.36			PASS





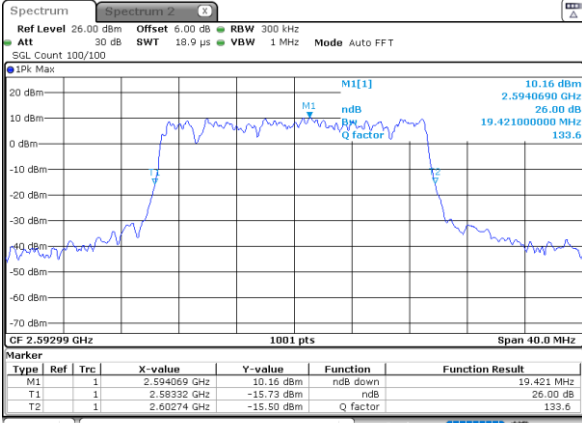
26dB Bandwidth

Mode	FR1 n41 : 26dB BW(20 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	19.42	19.18	19.46	19.10
Mode	FR1 n41 : 26dB BW(30 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	28.85	29.33	29.25	29.33
Mode	FR1 n41 : 26dB BW(40 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	40.36	40.20	40.20	40.20
Mode	FR1 n41 : 26dB BW(50 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	49.85	49.65	49.65	49.75
Mode	FR1 n41 : 26dB BW(60 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	60.54	60.30	60.30	60.42
Mode	FR1 n41 : 26dB BW(70 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	70.01	70.17	70.17	70.17
Mode	FR1 n41 : 26dB BW(80 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	79.92	79.92	79.92	79.92
Mode	FR1 n41 : 26dB BW(90 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	92.07	92.25	92.43	92.43
Mode	FR1 n41 : 26dB BW(100 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	102.10	102.30	102.50	102.30



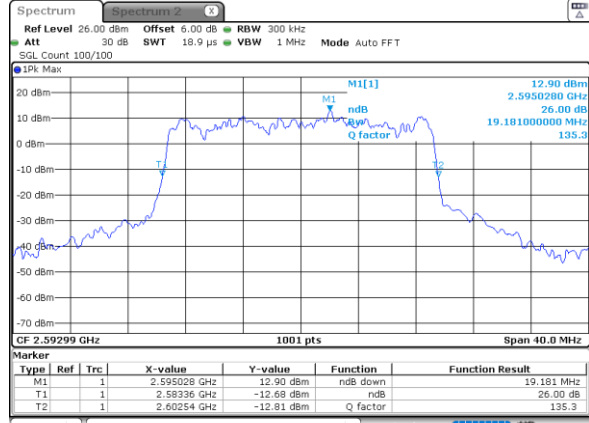
20MHz CP

QPSK



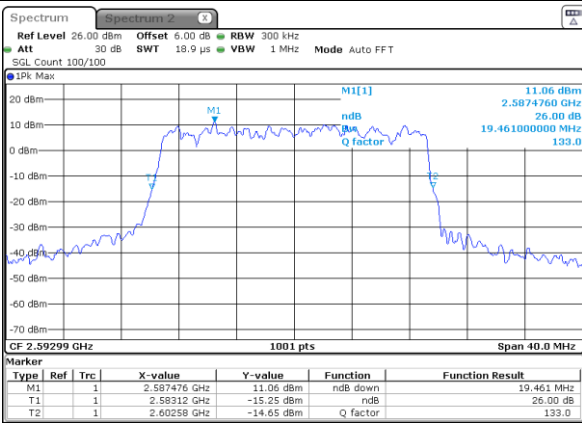
Date: 12.NOV.2022 10:30:34

16QAM



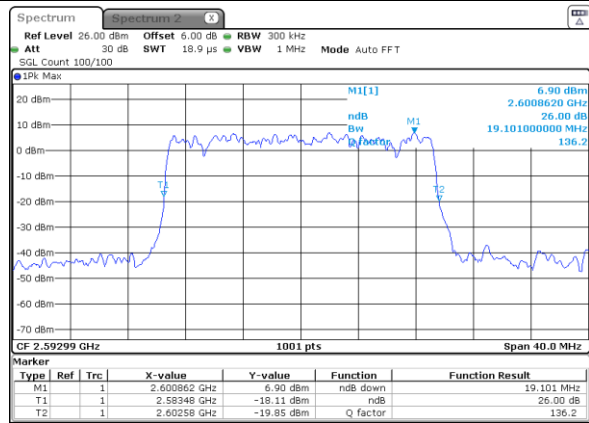
Date: 12.NOV.2022 10:30:17

64QAM



Date: 12.NOV.2022 10:29:55

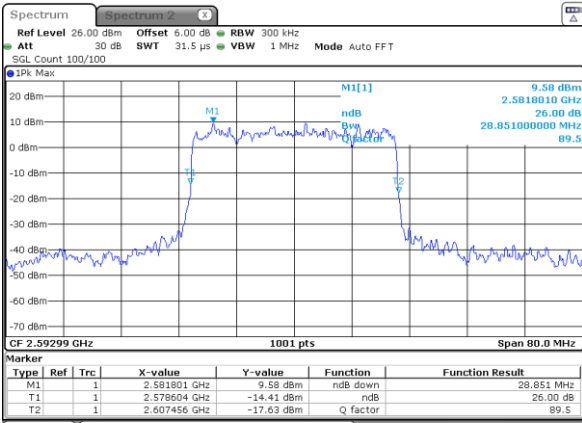
256QAM



Date: 12.NOV.2022 10:29:33

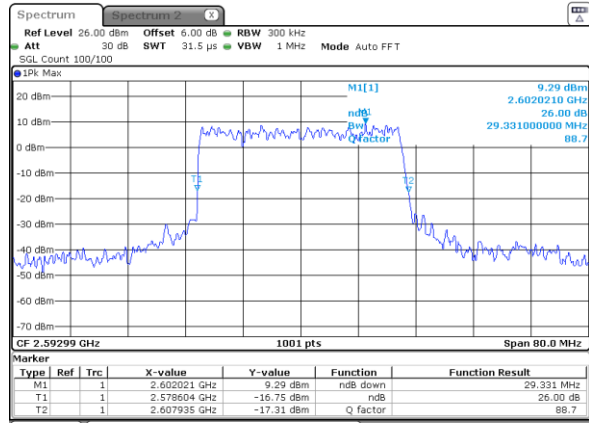
30MHz CP

QPSK



Date: 12.NOV.2022 10:27:12

16QAM

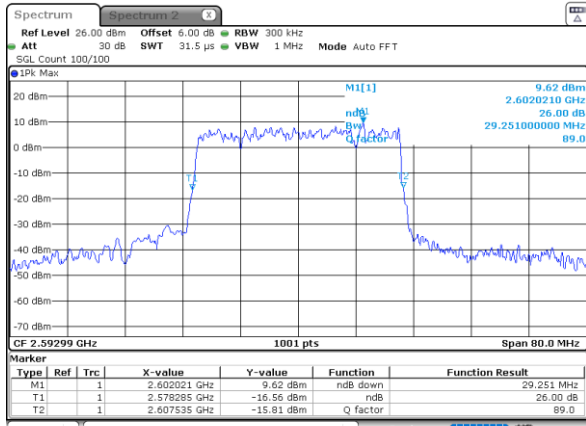


Date: 12.NOV.2022 10:27:33



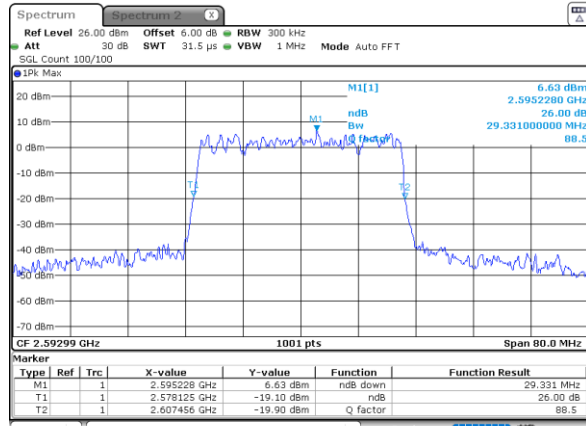


64QAM



Date: 12,NOV,2022 10:27:51

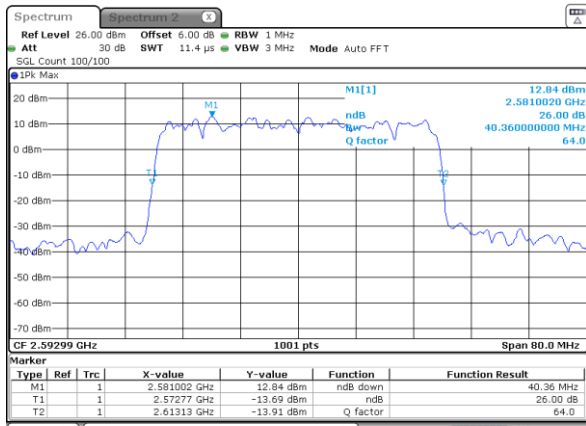
256QAM



Date: 12,NOV,2022 10:28:08

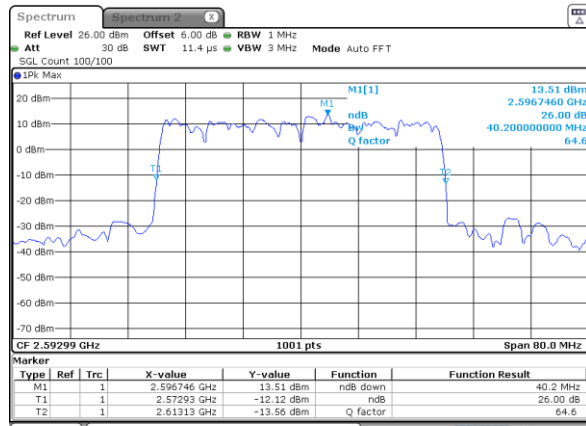
40MHz CP

QPSK



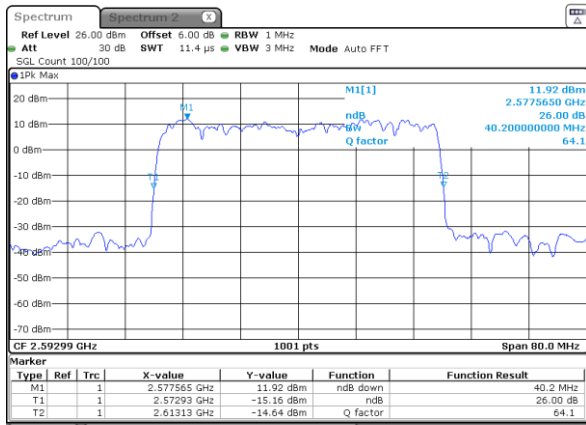
Date: 12,NOV,2022 10:26:40

16QAM



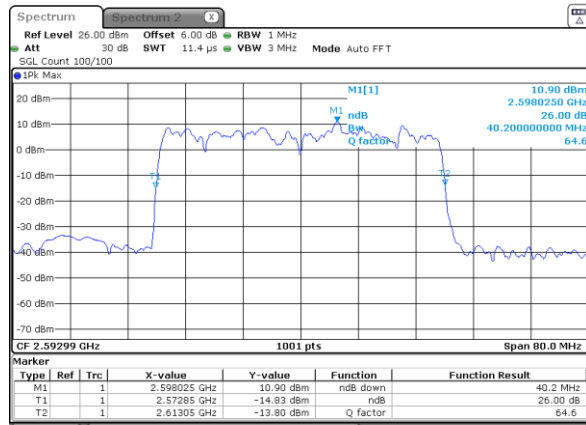
Date: 12,NOV,2022 10:26:18

64QAM



Date: 12,NOV,2022 10:26:01

256QAM



Date: 12,NOV,2022 10:24:24



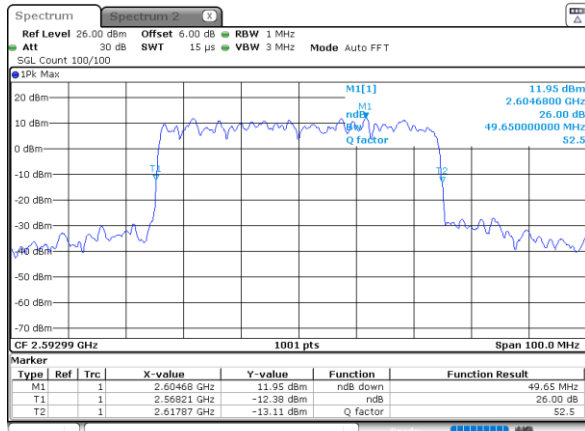
50MHz CP

QPSK



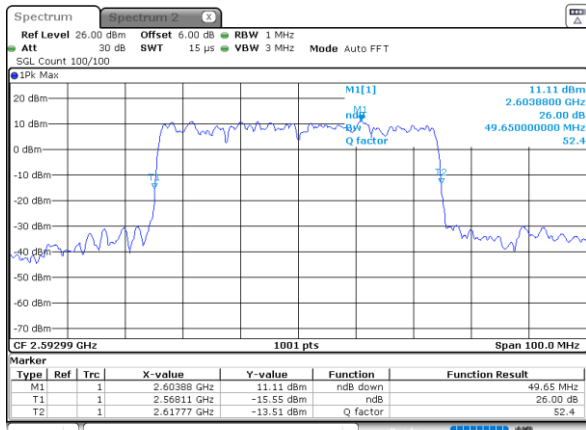
Date: 12,NOV,2022 10:22:23

16QAM



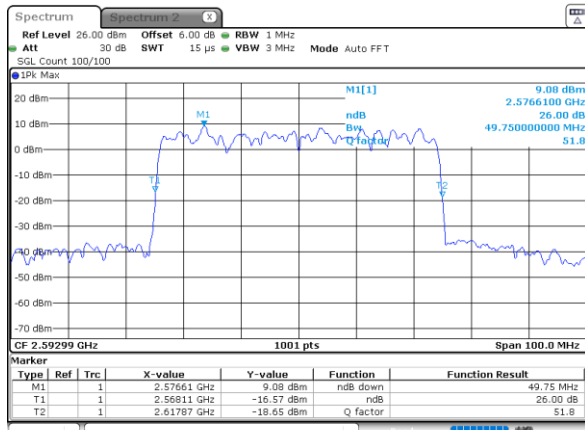
Date: 12,NOV,2022 10:22:41

64QAM



Date: 12,NOV,2022 10:23:18

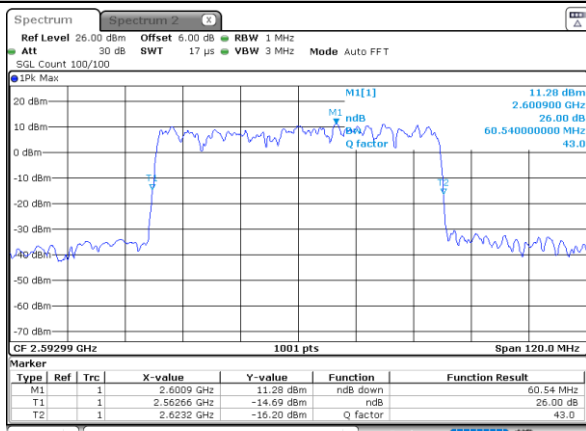
256QAM



Date: 12,NOV,2022 10:23:39

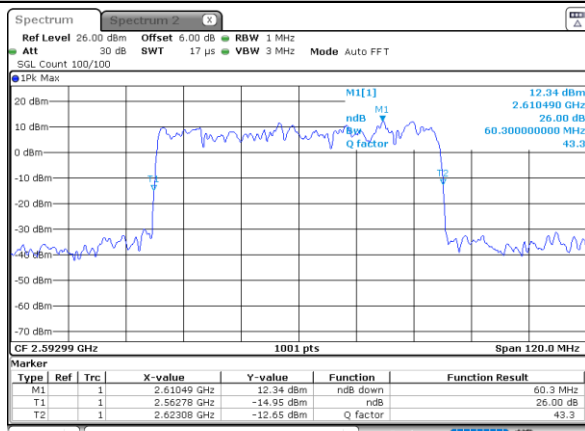
60MHz CP

QPSK



Date: 12,NOV,2022 09:42:46

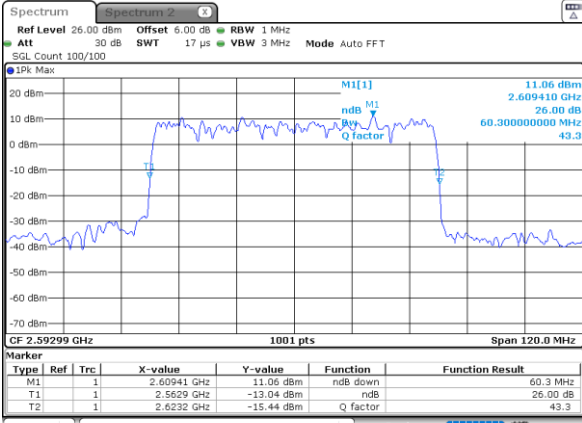
16QAM



Date: 12,NOV,2022 09:23:23

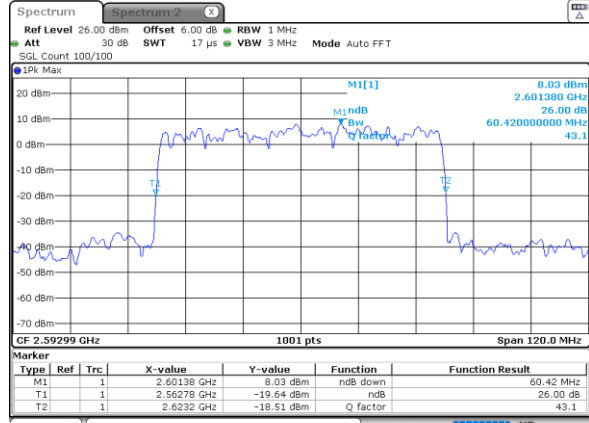


64QAM



Date: 12,NOV,2022 09:23:05

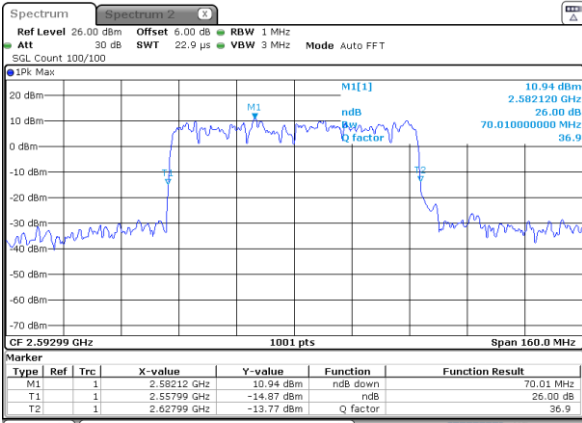
256QAM



Date: 12,NOV,2022 09:22:33

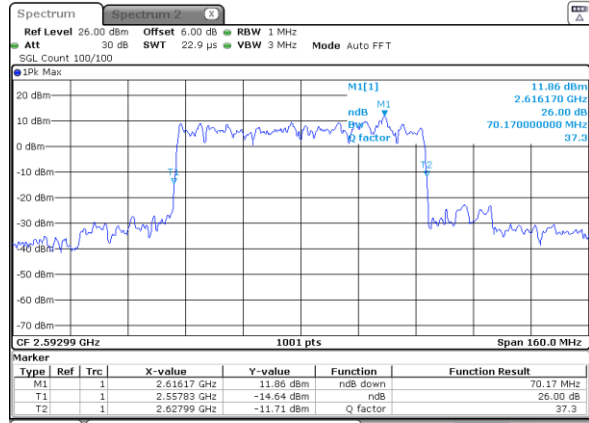
70MHz CP

QPSK



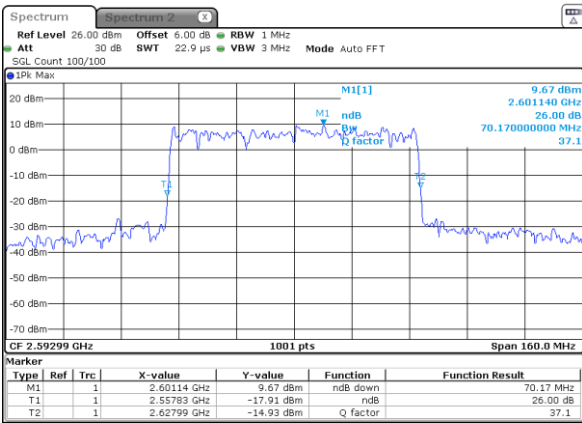
Date: 12,NOV,2022 09:20:02

16QAM



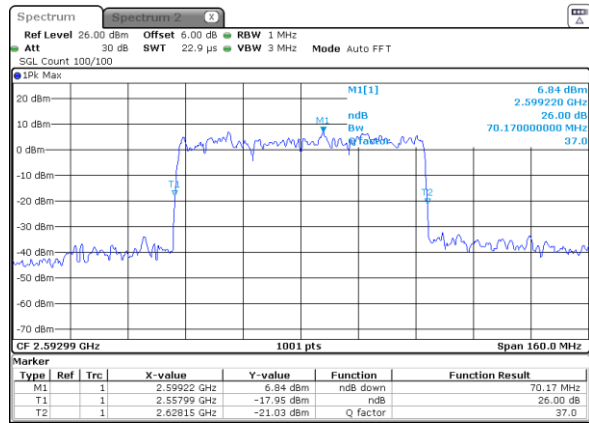
Date: 12,NOV,2022 09:20:52

64QAM



Date: 12,NOV,2022 09:21:10

256QAM

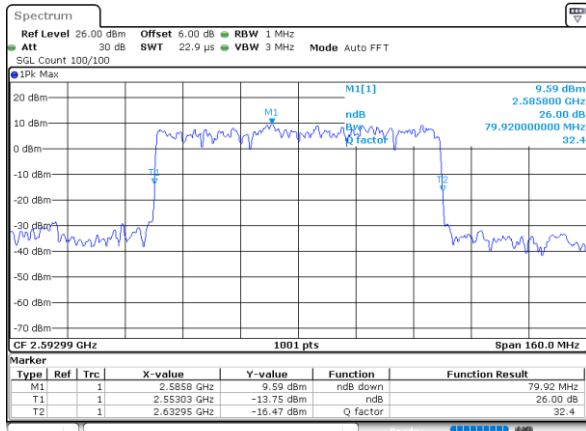


Date: 12,NOV,2022 09:21:32



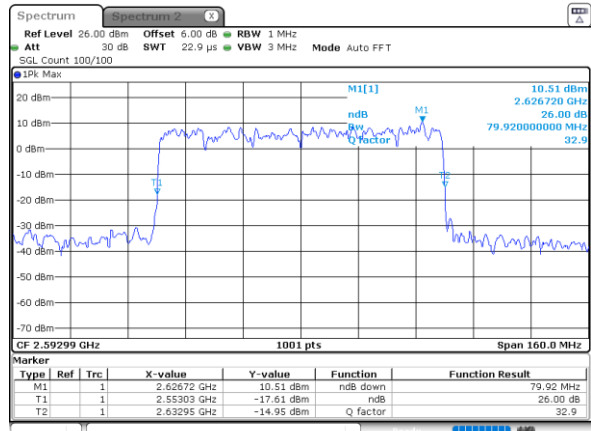
80MHz CP

QPSK



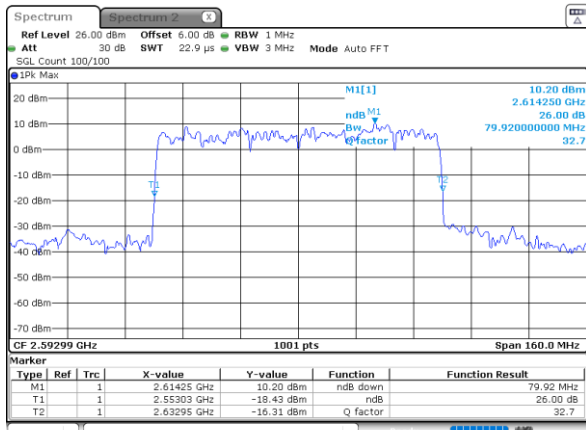
Date: 21.NOV.2022 14:36:54

16QAM



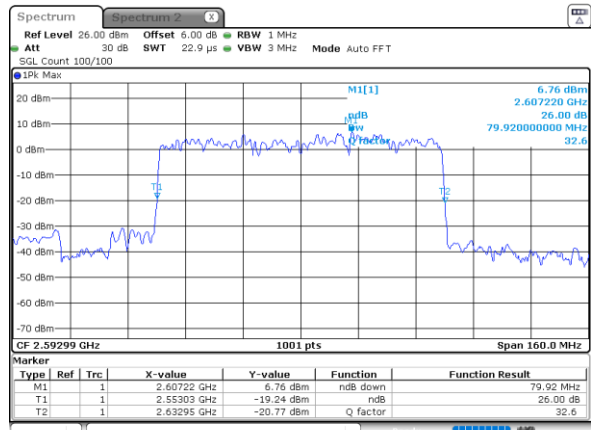
Date: 12.NOV.2022 09:19:02

64QAM



Date: 12.NOV.2022 09:18:45

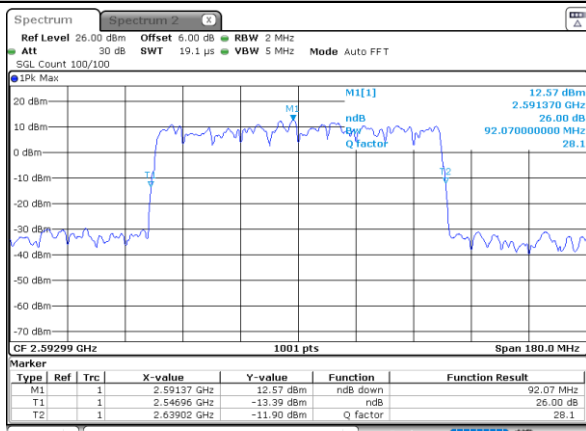
256QAM



Date: 12.NOV.2022 09:18:26

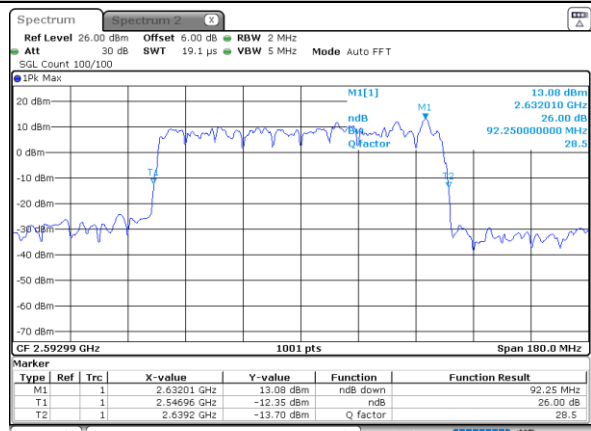
90MHz CP

QPSK



Date: 12.NOV.2022 09:16:43

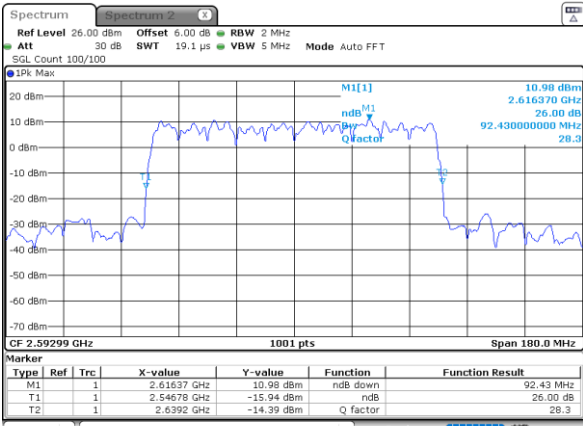
16QAM



Date: 12.NOV.2022 09:17:05

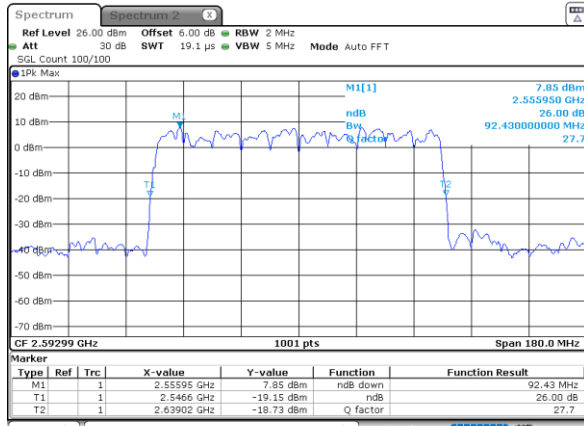


64QAM



Date: 12,NOV,2022 09:17:33

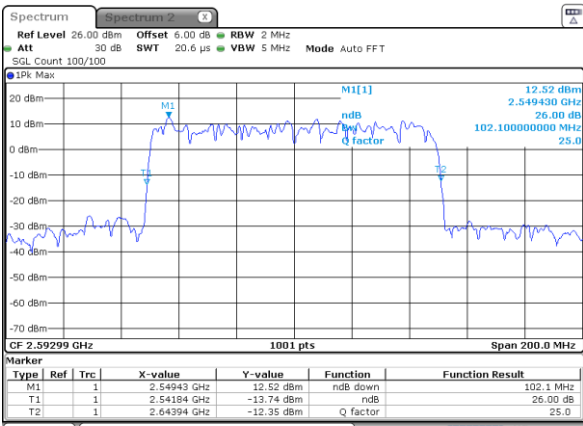
256QAM



Date: 12,NOV,2022 09:18:01

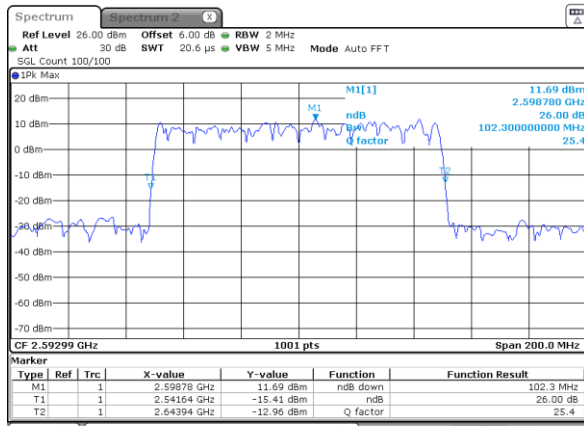
100MHz CP

QPSK



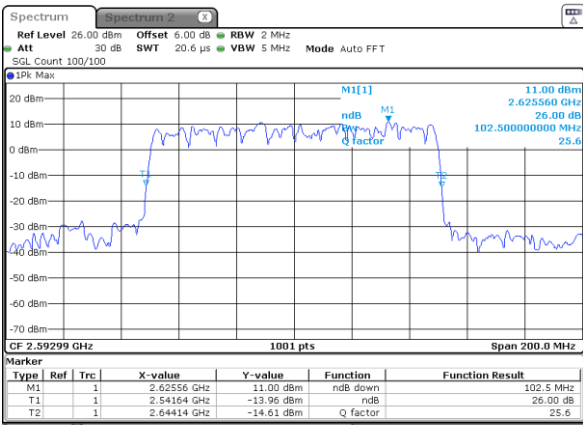
Date: 12,NOV,2022 08:46:41

16QAM



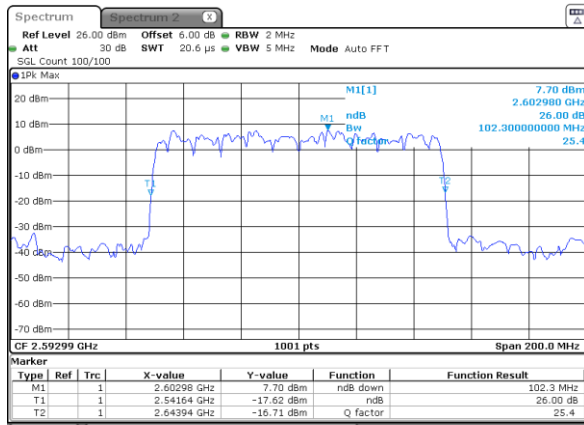
Date: 12,NOV,2022 08:47:03

64QAM



Date: 12,NOV,2022 08:47:30

256QAM



Date: 12,NOV,2022 08:48:04



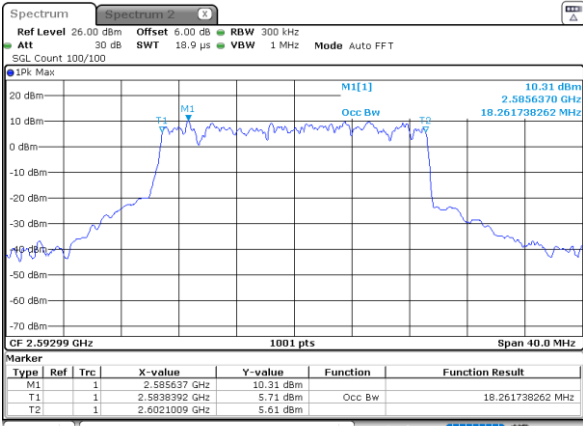
**Occupied Bandwidth**

Mode	FR1 n41 : OB BW(20 MHz) / DFT-S OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	18.26	18.26	18.22	18.18
Mode	FR1 n41 : OB BW(30 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	27.81	27.89	27.89	27.97
Mode	FR1 n41 : OB BW(40 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	37.88	37.72	37.96	38.12
Mode	FR1 n41 : OB BW(50 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	47.75	47.45	47.55	47.75
Mode	FR1 n41 : OB BW(60 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	57.90	57.66	58.02	57.90
Mode	FR1 n41 : OB BW(70 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	67.29	67.13	67.61	67.45
Mode	FR1 n41 : OB BW(80 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	77.04	77.36	77.20	77.36
Mode	FR1 n41 : OB BW(90 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	87.39	87.21	87.21	87.93
Mode	FR1 n41 : OB BW(100 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	96.70	97.90	97.50	97.90



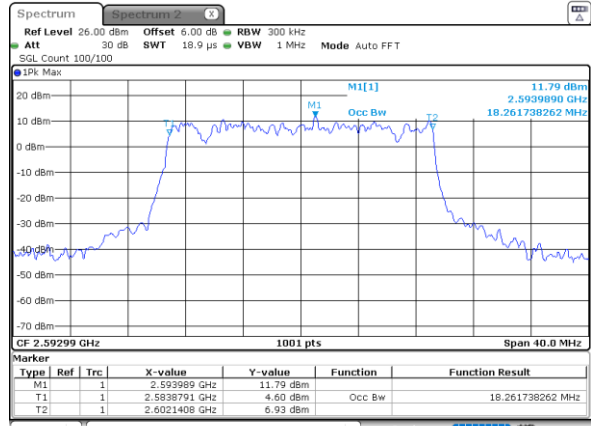
20MHz CP

QPSK



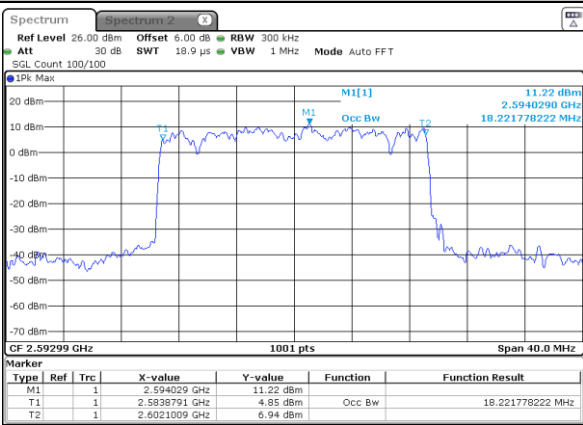
Date: 12,NOV,2022 10:30:27

16QAM



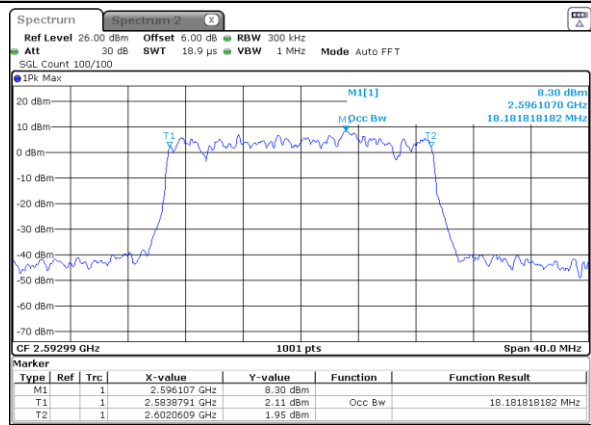
Date: 12,NOV,2022 10:30:112

64QAM



Date: 12,NOV,2022 10:29:48

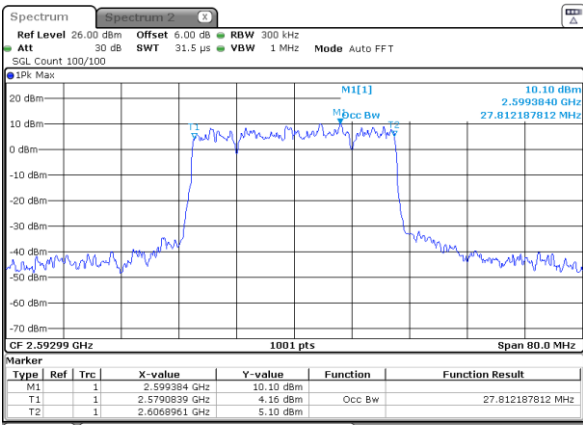
256QAM



Date: 12,NOV,2022 10:29:128

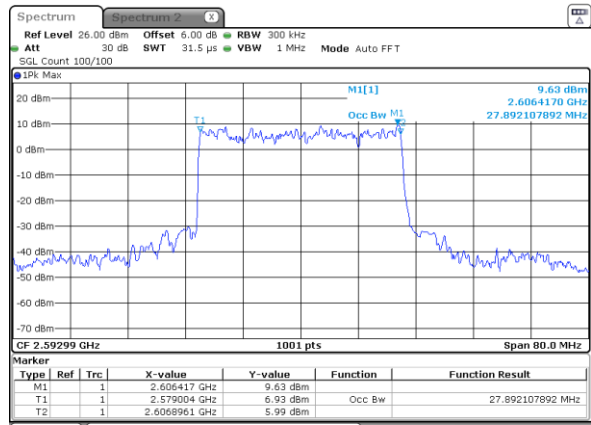
30MHz CP

QPSK



Date: 12,NOV,2022 10:27:06

16QAM

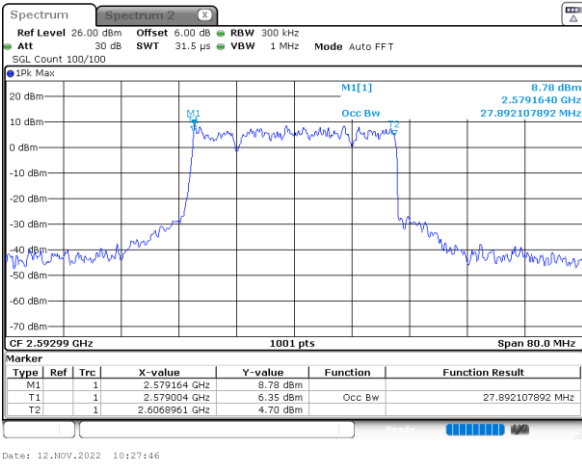


Date: 12,NOV,2022 10:27:122

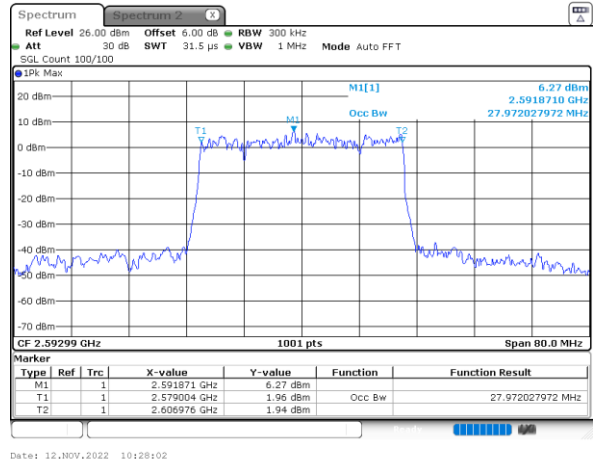




64QAM

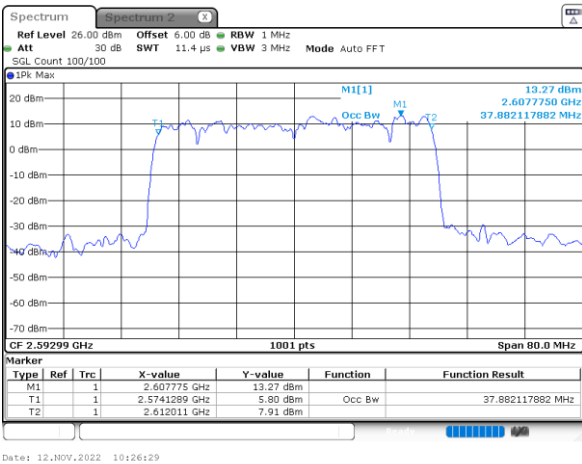


256QAM

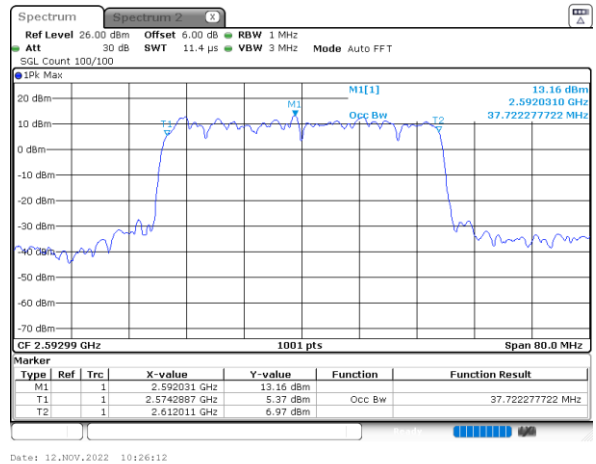


40MHz CP

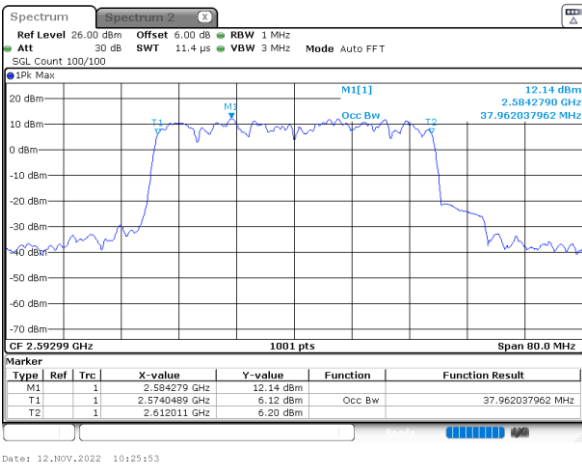
QPSK



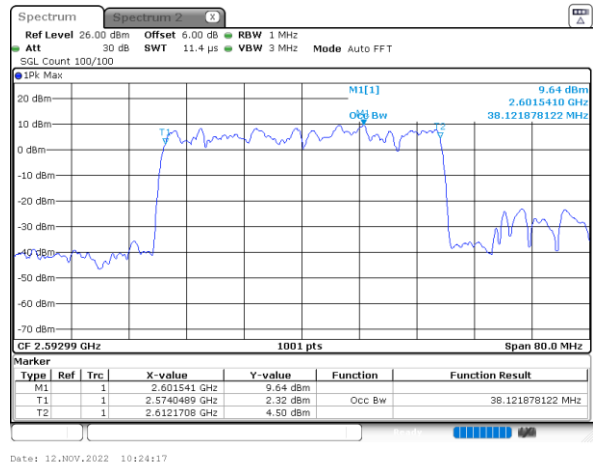
16QAM



64QAM



256QAM

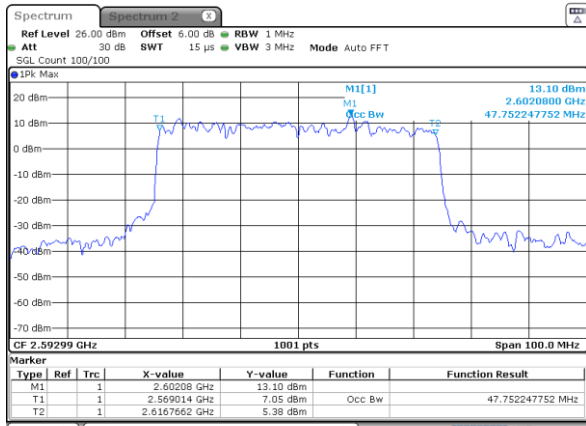






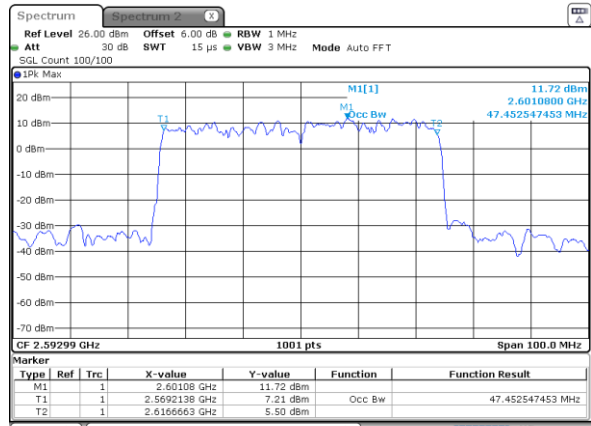
50MHz CP

QPSK



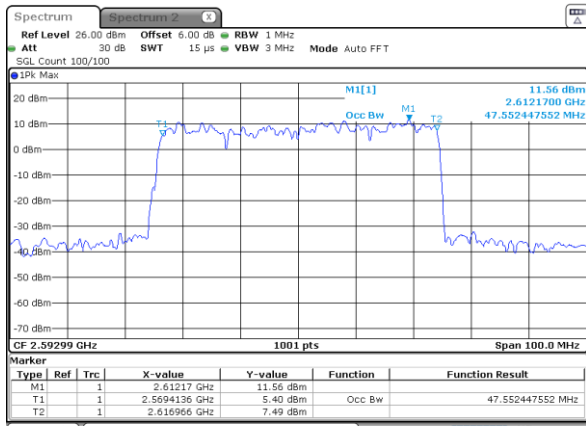
Date: 12.NOV.2022 10:22:02

16QAM



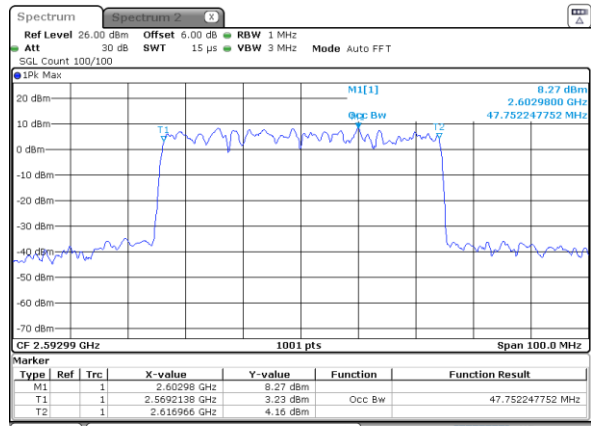
Date: 12.NOV.2022 10:22:134

64QAM



Date: 12.NOV.2022 10:23:12

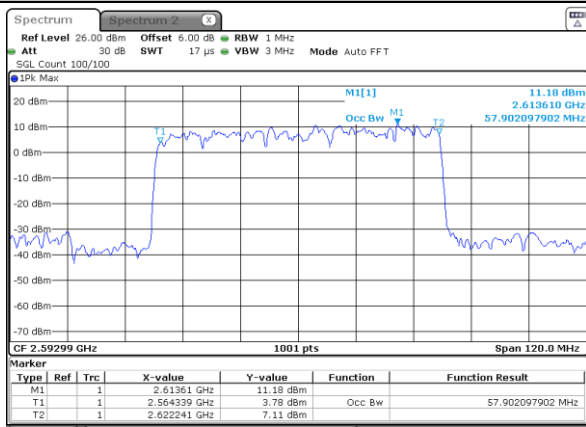
256QAM



Date: 12.NOV.2022 10:23:133

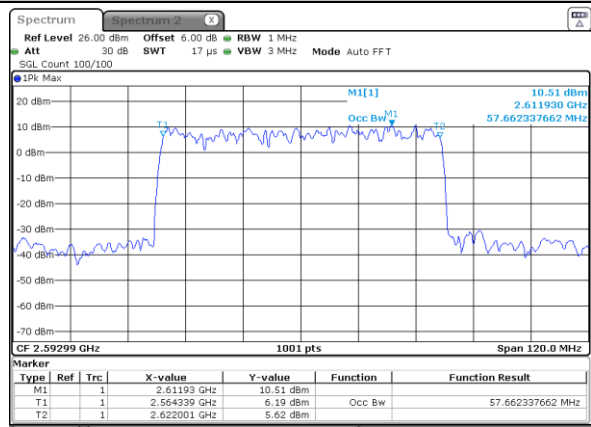
60MHz CP

QPSK



Date: 12.NOV.2022 09:42:21

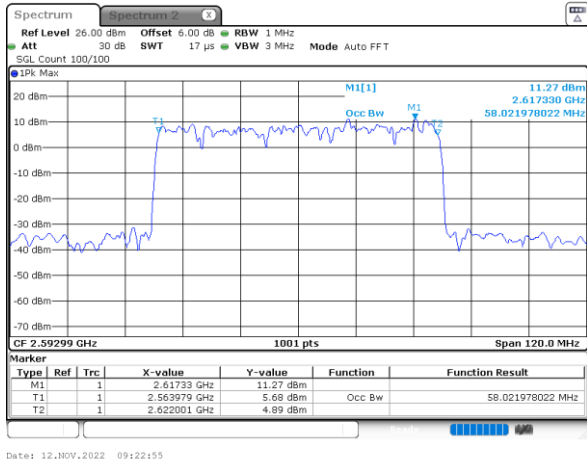
16QAM



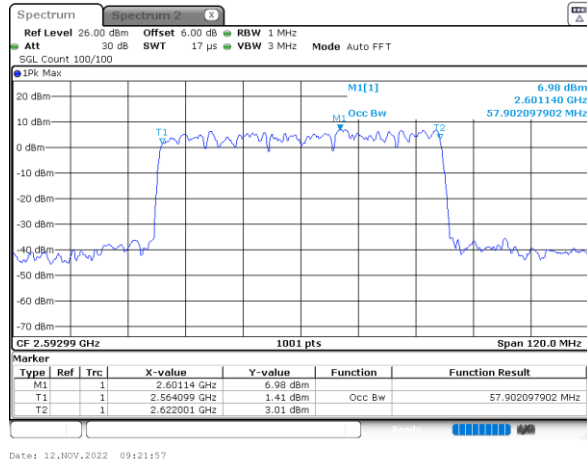
Date: 12.NOV.2022 09:23:116



64QAM

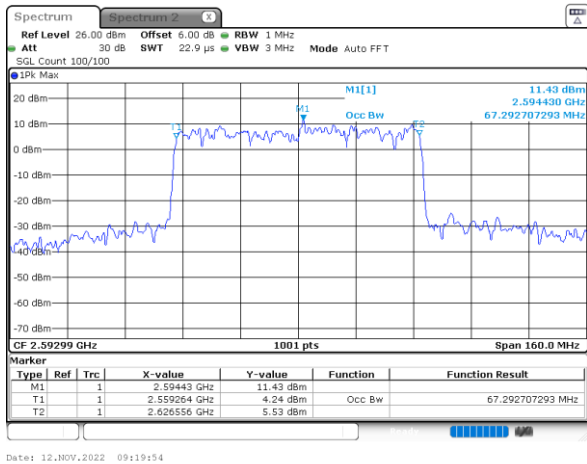


256QAM

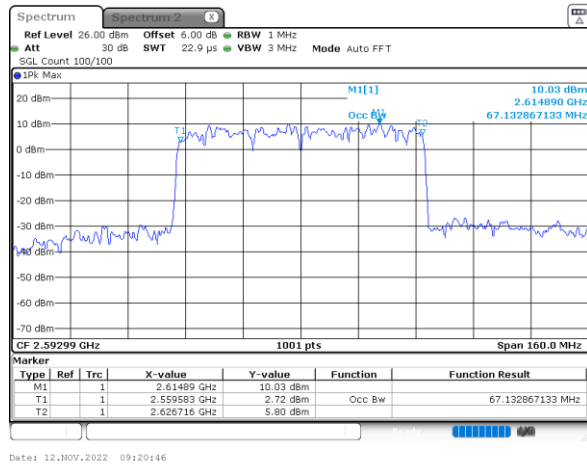


70MHz CP

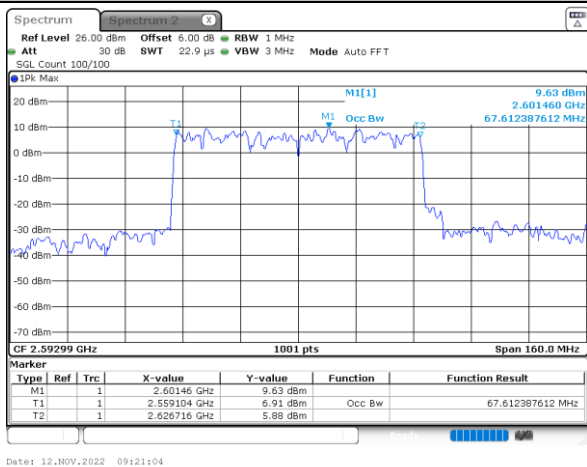
QPSK



16QAM



64QAM



256QAM

