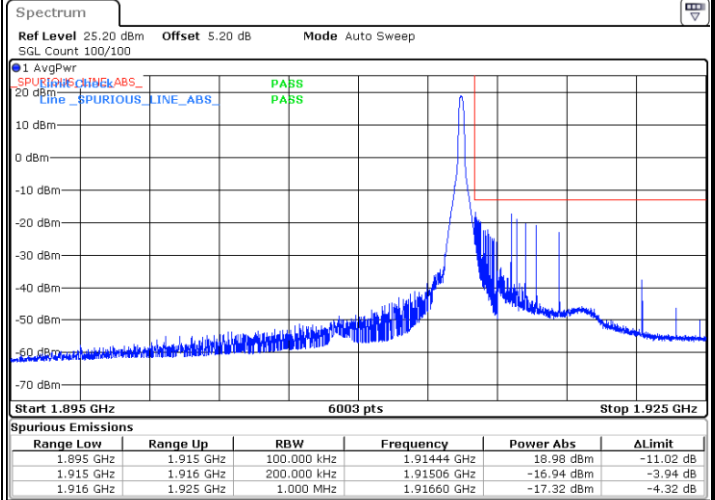
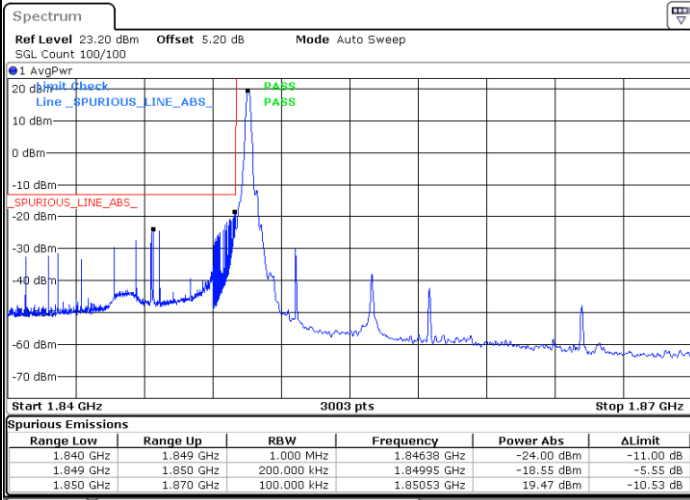




FR1 n25 / 20MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

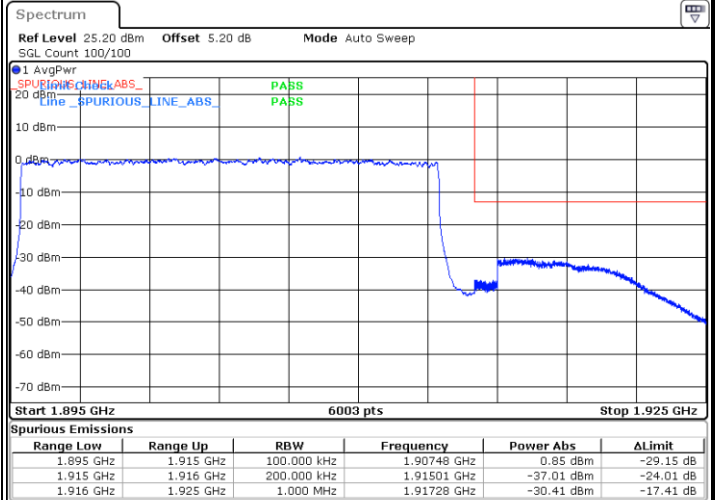
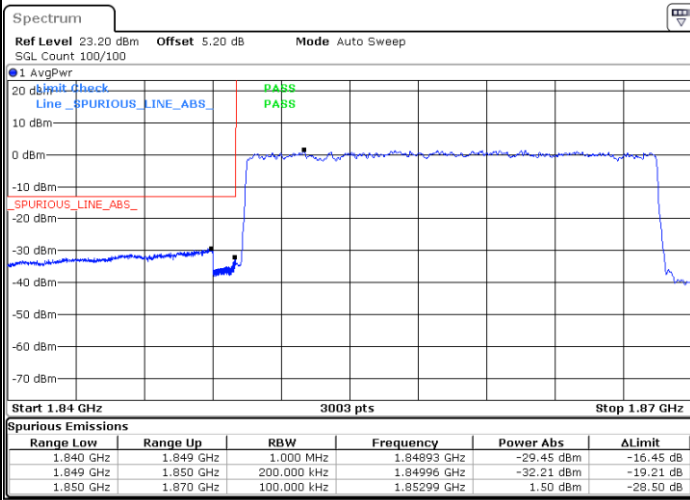


Date: 30 JUN 2020 14:03:03

Date: 30 JUN 2020 15:20:12

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30 JUN 2020 14:02:44

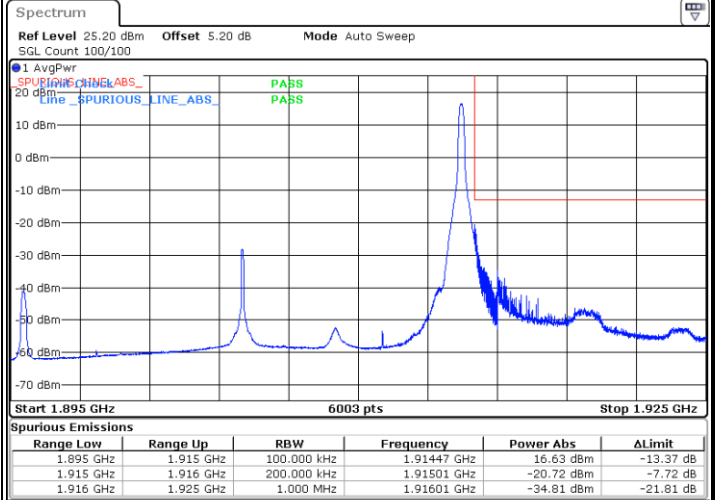
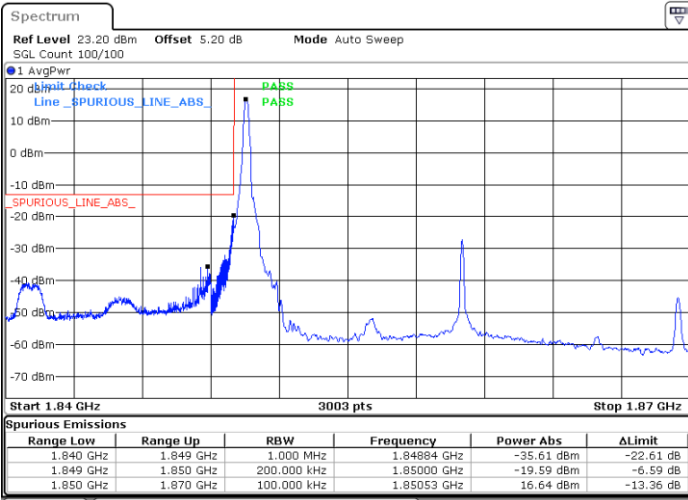
Date: 30 JUN 2020 15:21:21



FR1 n25 / 20MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

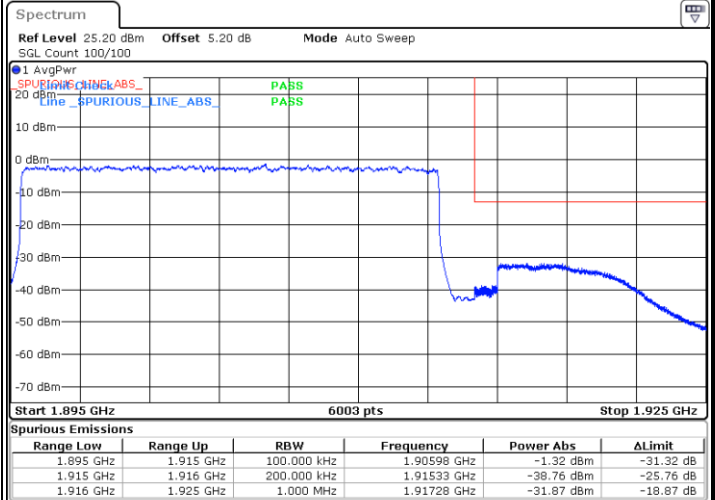
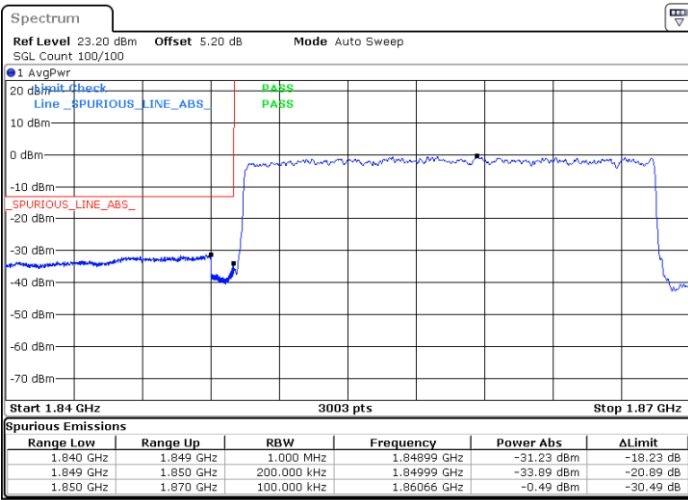


Date: 30 JUN.2020 14:42:10

Date: 30 JUN.2020 15:18:00

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30 JUN.2020 14:42:55

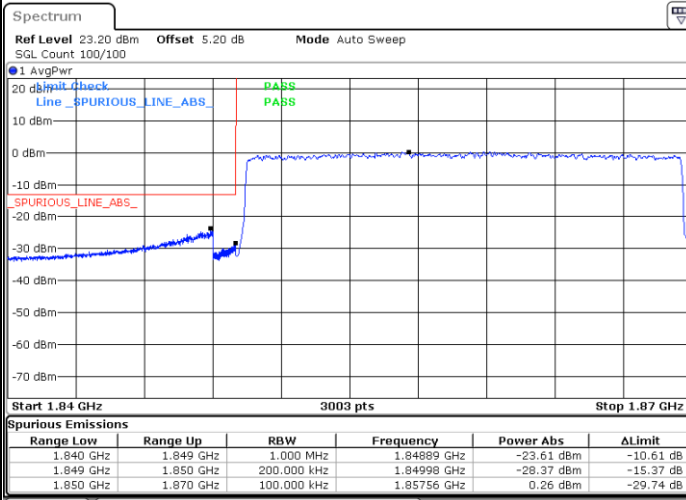
Date: 30 JUN.2020 15:08:20



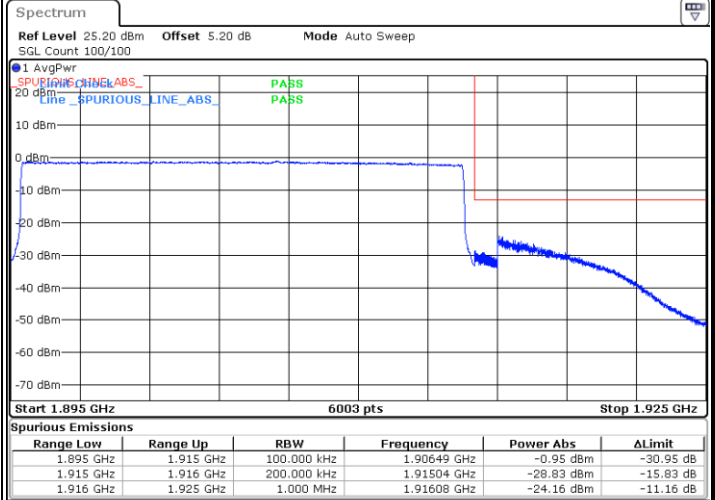
FR1 n25 / 20MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30 JUN 2020 14:43:22



Date: 30 JUN 2020 14:48:01

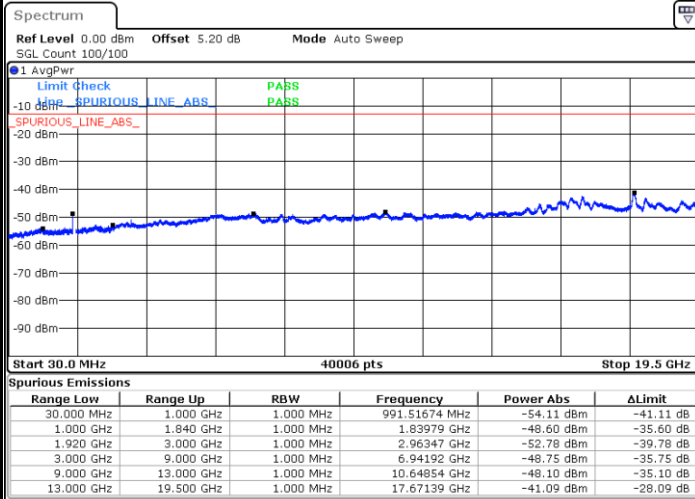


Conducted Spurious Emission

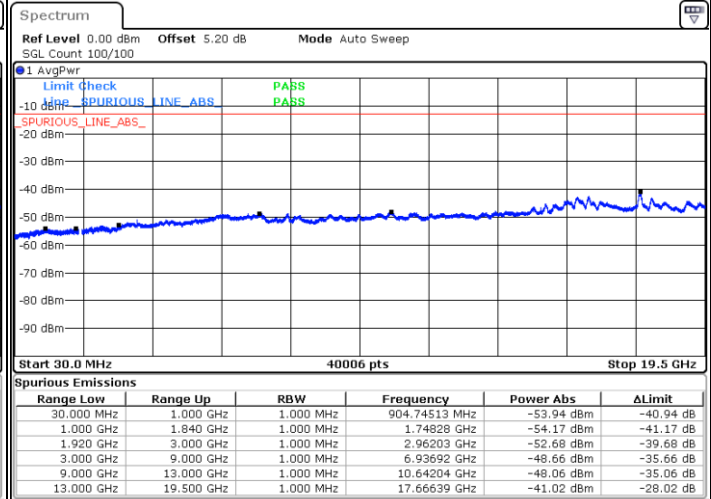
FR1 n25 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

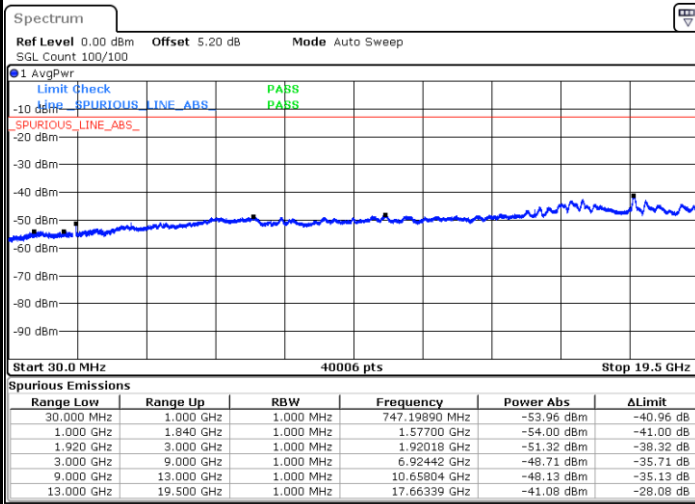


Date: 1.JUL.2020 16:12:37



Date: 1.JUL.2020 16:13:49

Highest Channel / 1RB1



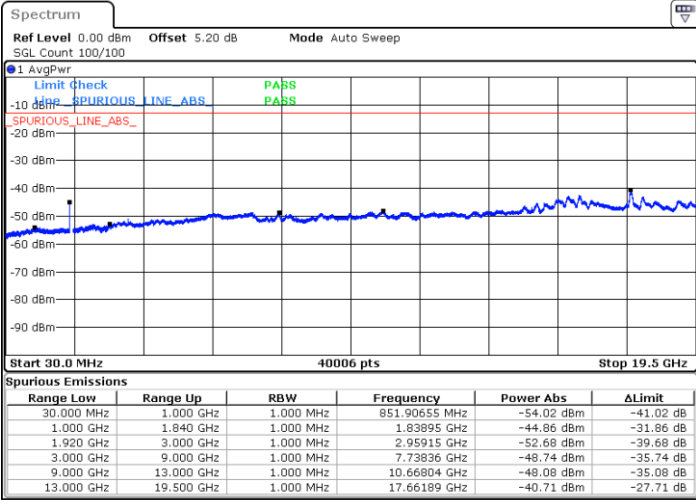
Date: 1.JUL.2020 16:14:58



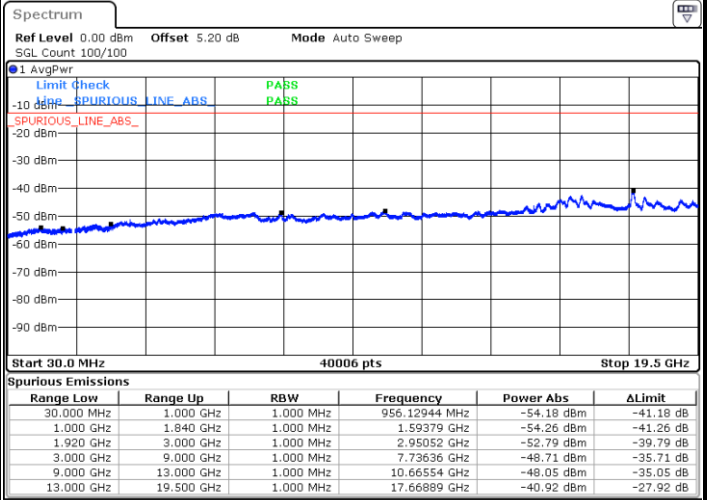
FR1 n25 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

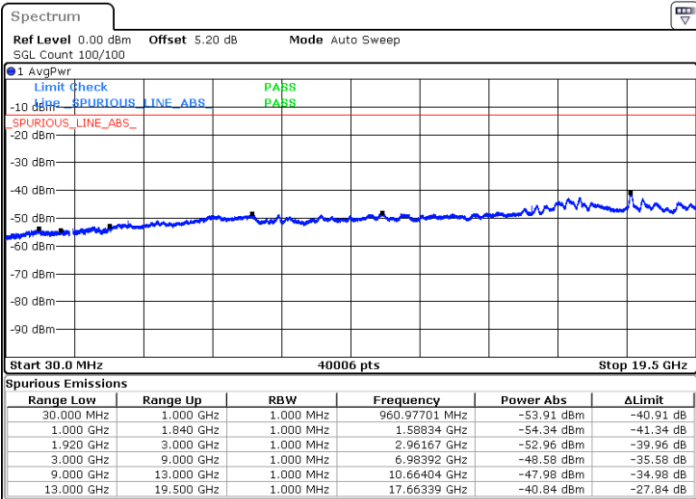


Date: 1.JUL.2020 14:54:59



Date: 1.JUL.2020 15:00:48

Highest Channel / 1RB1



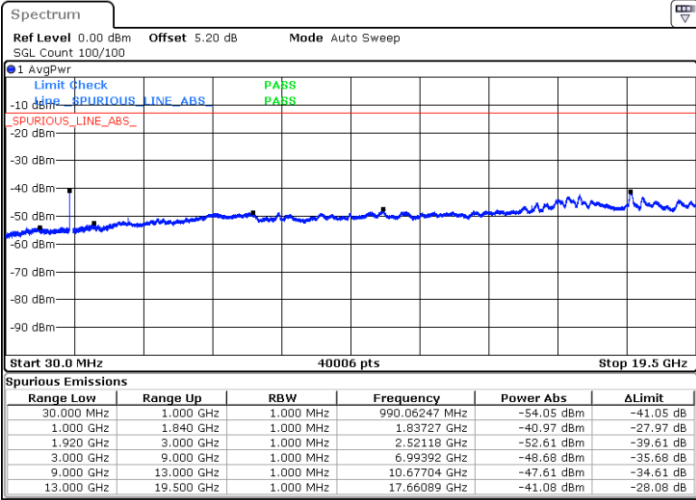
Date: 1.JUL.2020 15:04:46



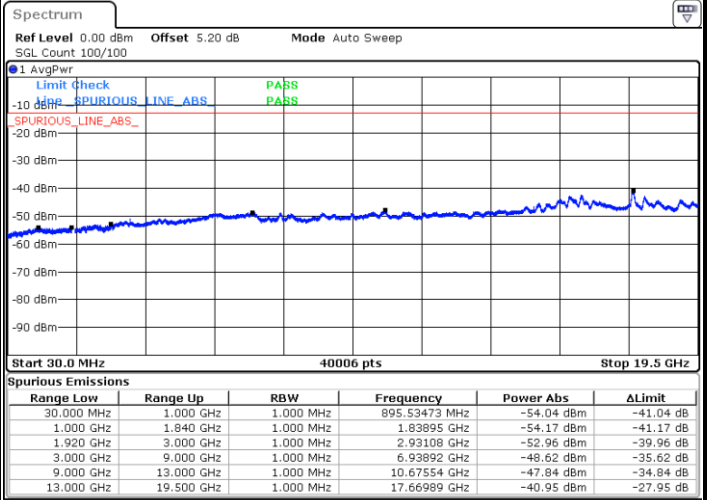
FR1 n25 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

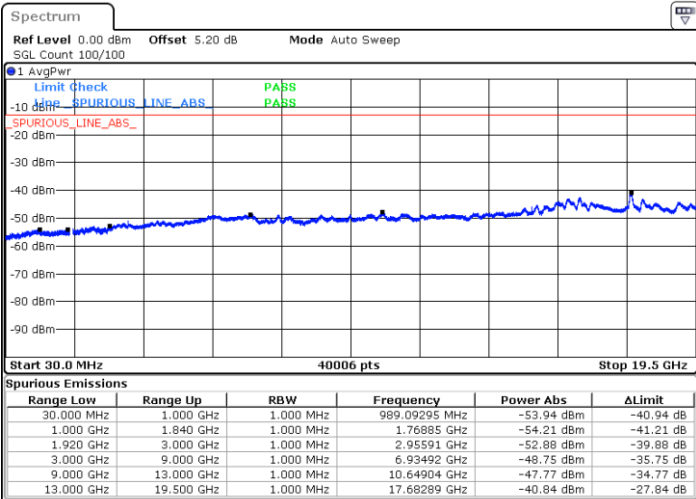


Date: 1.JUL.2020 09:44:38



Date: 1.JUL.2020 10:01:26

Highest Channel / 1RB1



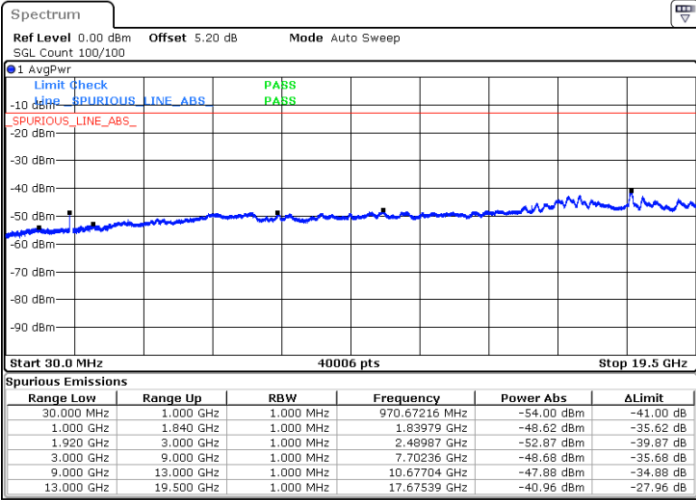
Date: 1.JUL.2020 10:04:01



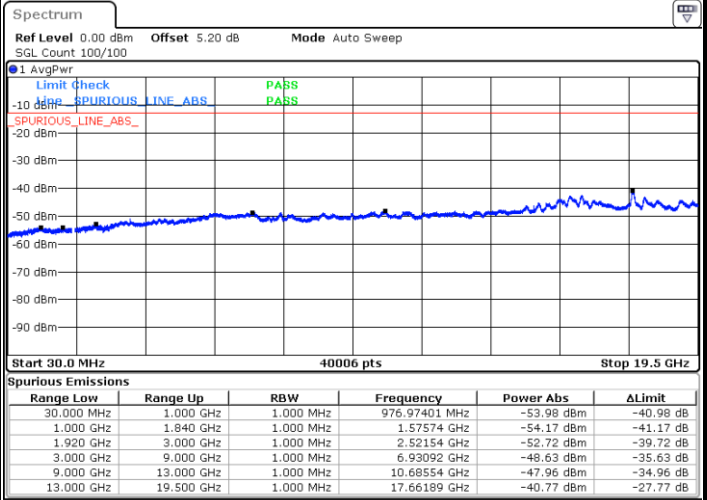
FR1 n25 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

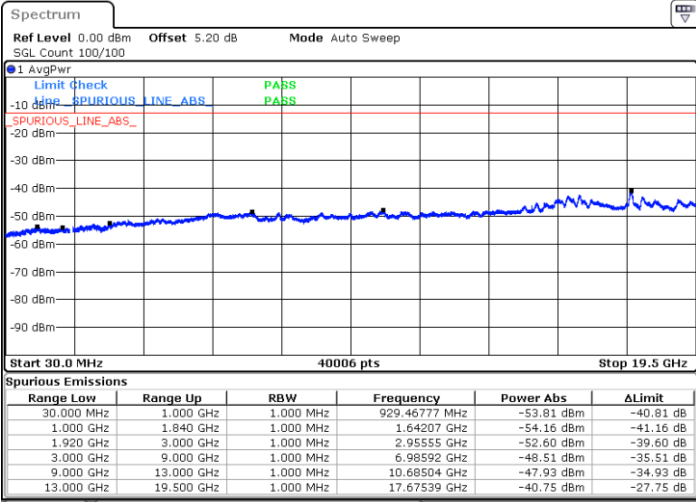


Date: 1 JUL 2020 09:31:34



Date: 30 JUN 2020 14:44:50

Highest Channel / 1RB1



Date: 30 JUN 2020 14:45:59



Frequency Stability

Test Conditions		FR1 n25 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0013	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0017	
20	Battery End Point	0.0025	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.49 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



FR1 n41 (HPUE)

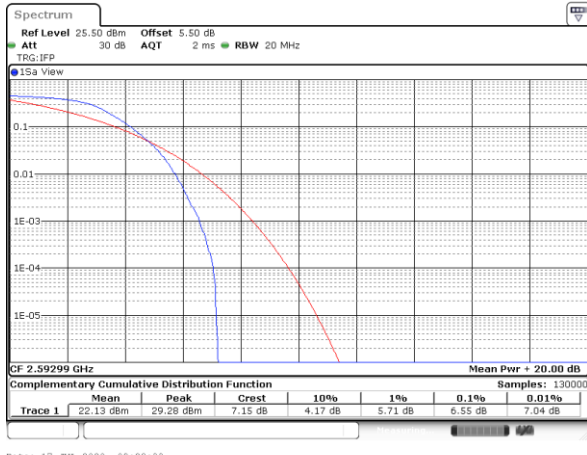
Peak-to-Average Ratio

Mode	FR1 n41 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	6.55	7.91	8.93	9.13	PASS
Mode	FR1 n41 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	9.19				PASS



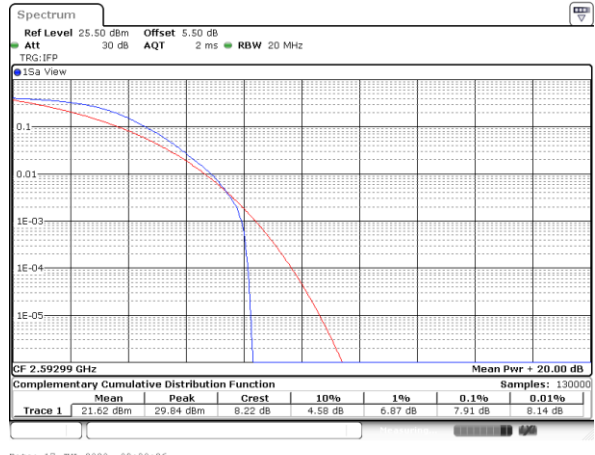
FR1 n41 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



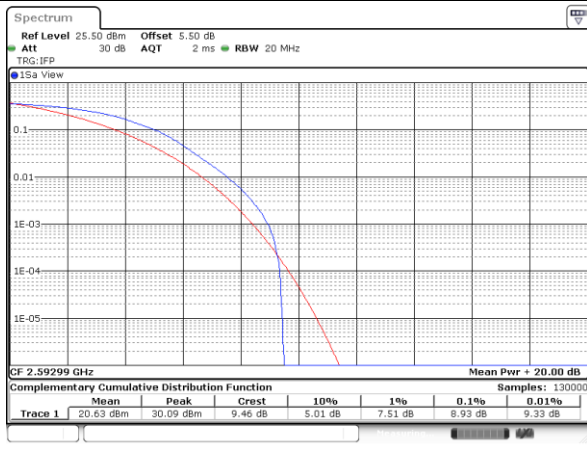
Date: 17_JUL_2020 09:28:33

QPSK



Date: 17_JUL_2020 09:13:26

16QAM



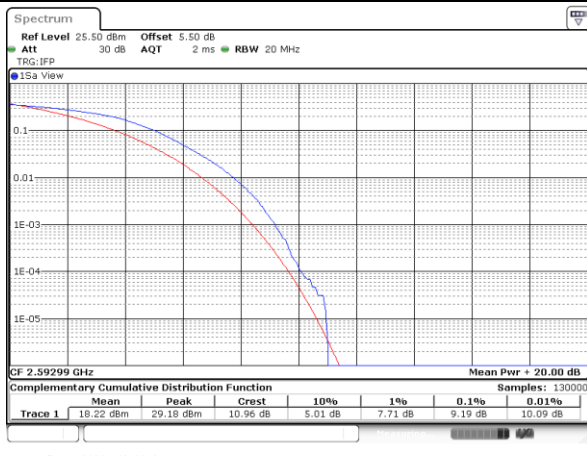
Date: 17_JUL_2020 09:31:04

64QAM



Date: 17_JUL_2020 09:13:28

256QAM



Date: 17_JUL_2020 09:32:34



26dB Bandwidth

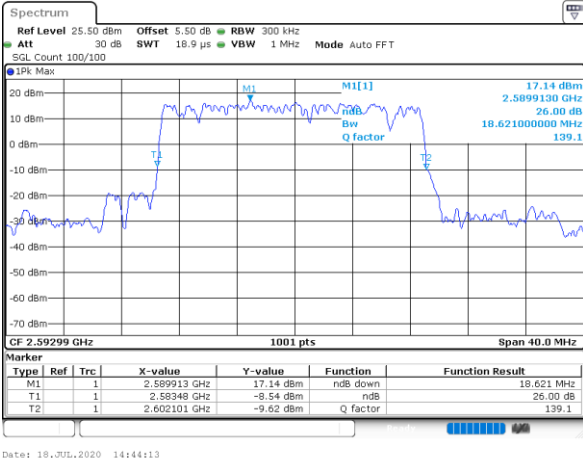
Mode	FR1 n41 : 26dB BW(MHz) / DFT-S OFDM							
BW	20MHz	40MHz	50MHz	60MHz	80MHz	90MHz	100MHz	
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	
Middle CH	18.62	38.04	48.05	60.54	79.60	89.55	99.30	

Mode	FR1 n41 : 26dB BW(MHz) / CP OFDM							
BW	20MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	18.98	19.26	40.36	40.20	49.85	49.65	60.42	60.54
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	19.10	19.34	40.28	40.36	49.75	49.85	60.54	60.42
BW	80MHz		90MHz		100MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	79.76	80.40	90.45	90.45	100.30	100.30		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	79.92	79.92	90.81	90.27	100.50	100.50		



FR1 n41 / 20MHz / DFT-S OFDM / Middle Channel

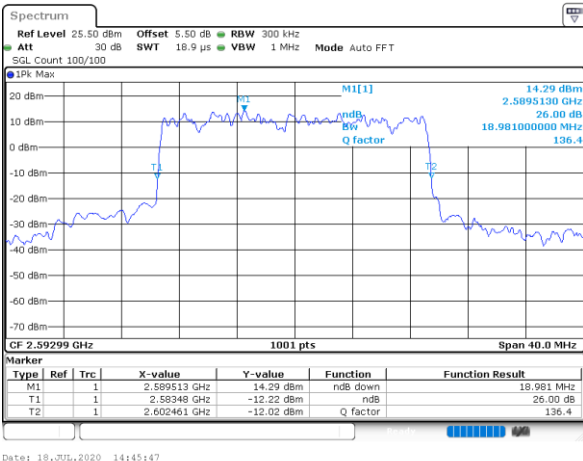
PI/2 BPSK



Date: 18_JUL_2020 14:44:13

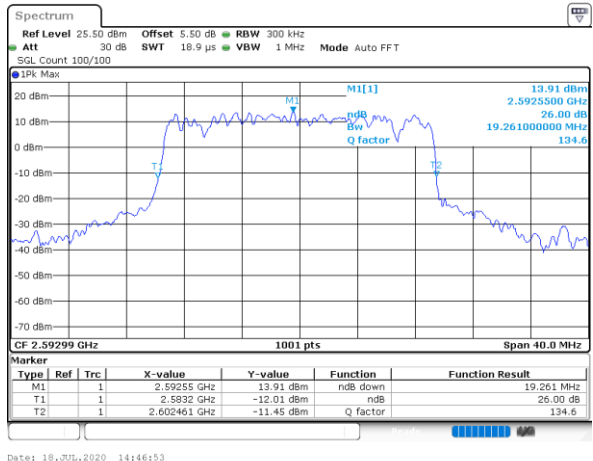
FR1 n41 / 20MHz / CP OFDM

QPSK



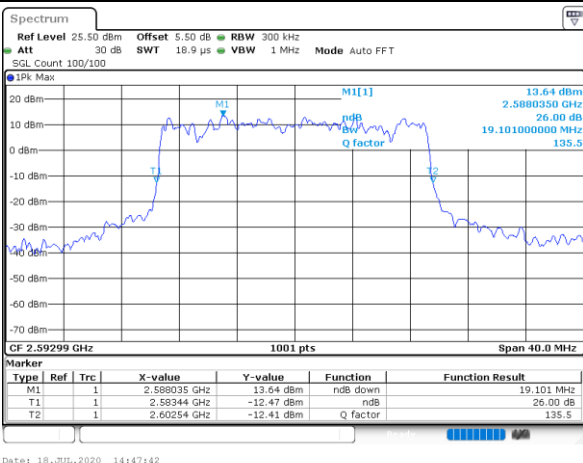
Date: 18_JUL_2020 14:45:47

16QAM



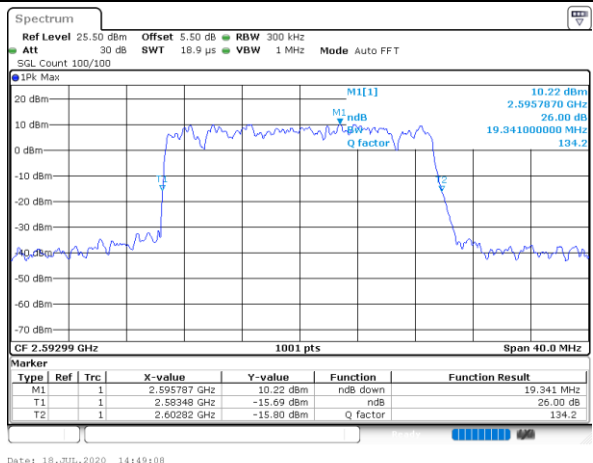
Date: 18_JUL_2020 14:46:53

64QAM



Date: 18_JUL_2020 14:47:42

256QAM

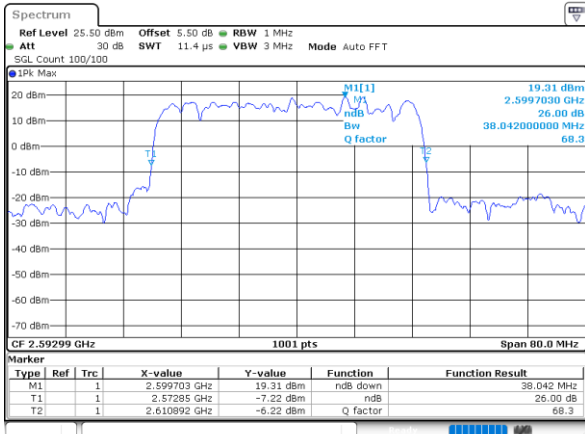


Date: 18_JUL_2020 14:49:08



FR1 n41 / 40MHz / DFT-S OFDM / Middle Channel

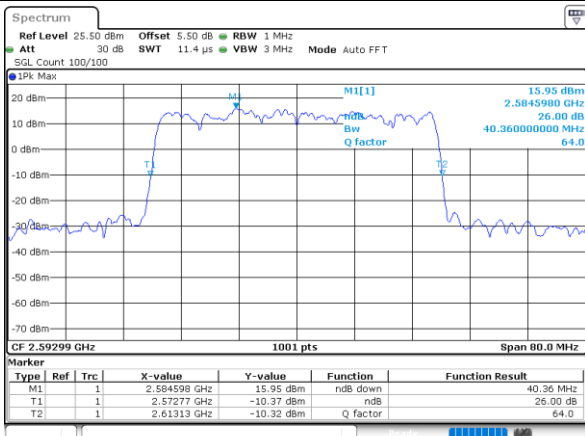
PI/2 BPSK



Date: 18_JUL_2020 14:54:25

QPSK

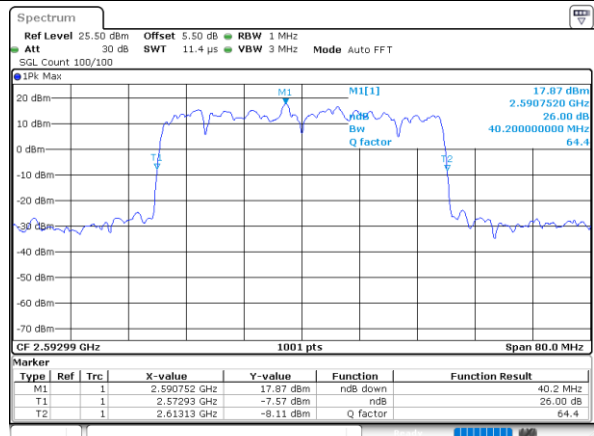
Middle Channel



Date: 18_JUL_2020 14:53:51

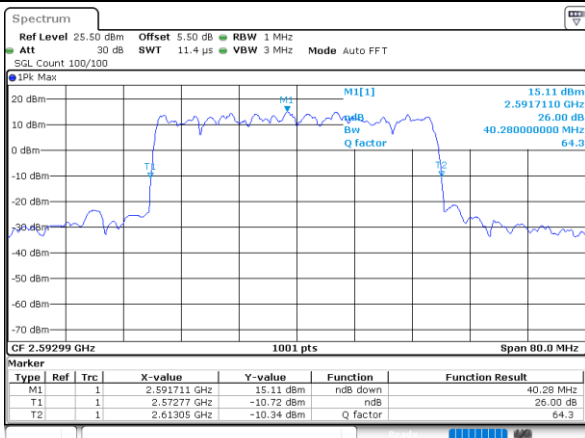
16QAM

Middle Channel



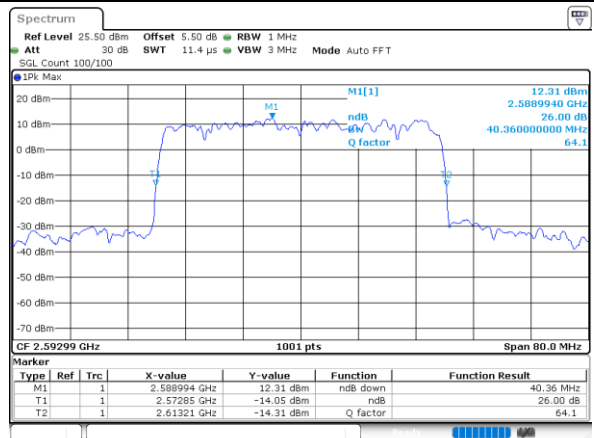
Date: 18_JUL_2020 14:53:09

64QAM



Date: 18_JUL_2020 14:52:43

256QAM

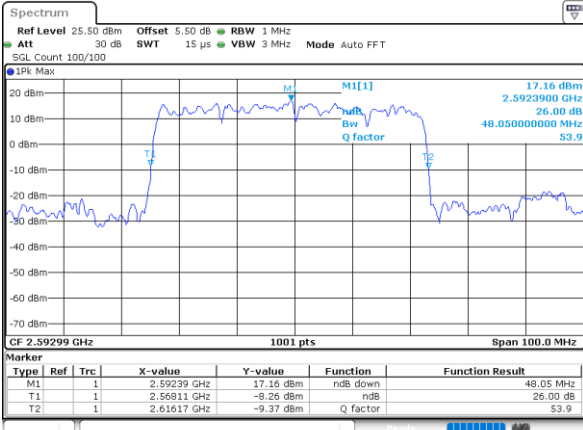


Date: 18_JUL_2020 14:50:38



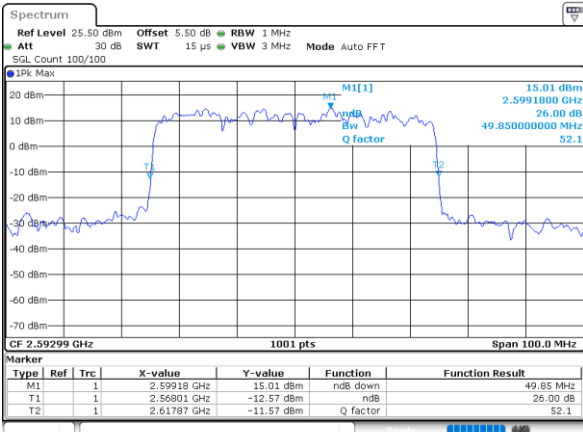
FR1 n41 / 50MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK



Date: 18_JUL_2020 15:01:01

QPSK



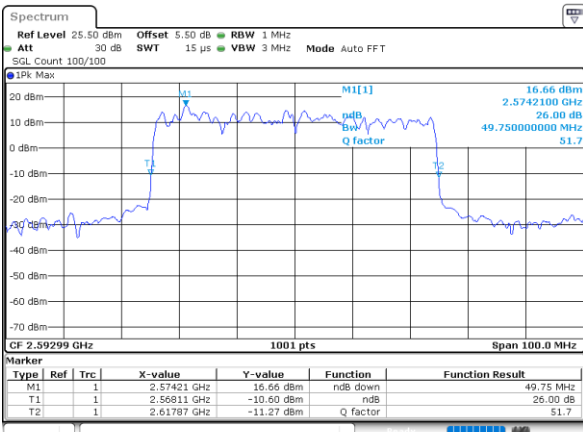
Date: 18_JUL_2020 15:01:41

16QAM



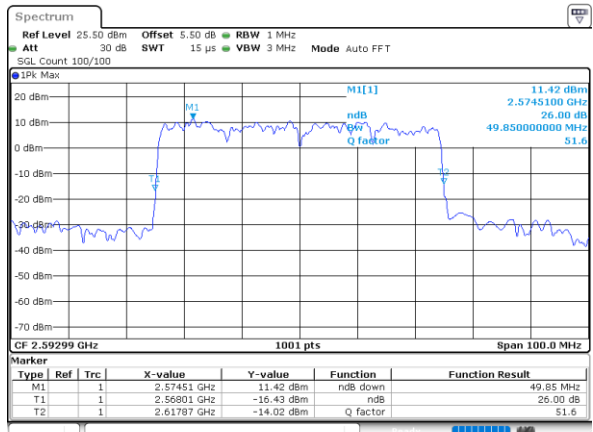
Date: 18_JUL_2020 15:02:08

64QAM



Date: 18_JUL_2020 15:02:39

256QAM

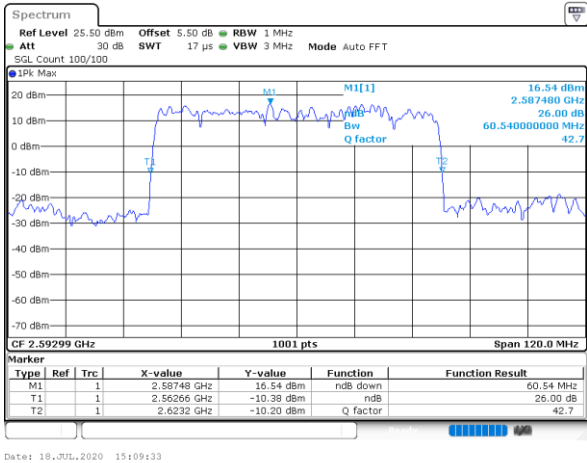


Date: 18_JUL_2020 15:03:08



FR1 n41 / 60MHz / DFT-S OFDM / Middle Channel

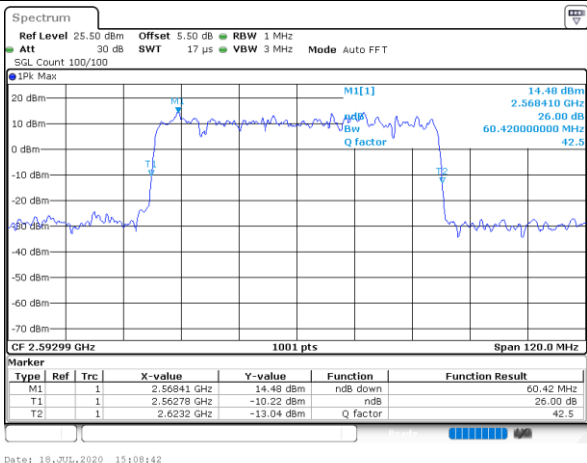
PI/2 BPSK



Date: 18_JUL_2020 15:09:33

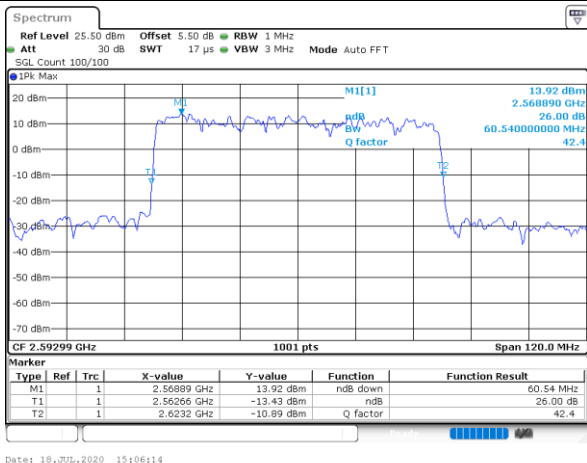
FR1 n41 / 60MHz / CP OFDM

QPSK



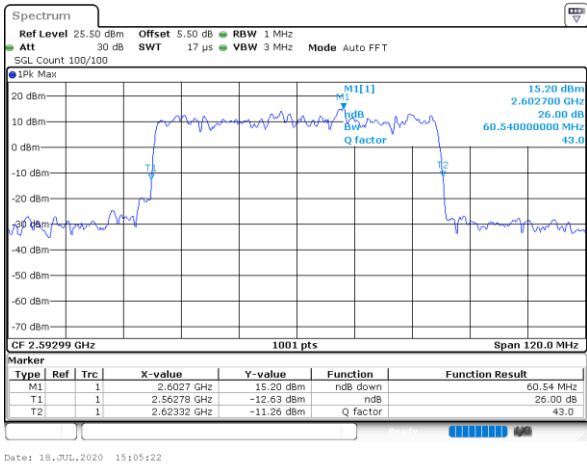
Date: 18_JUL_2020 15:08:42

16QAM



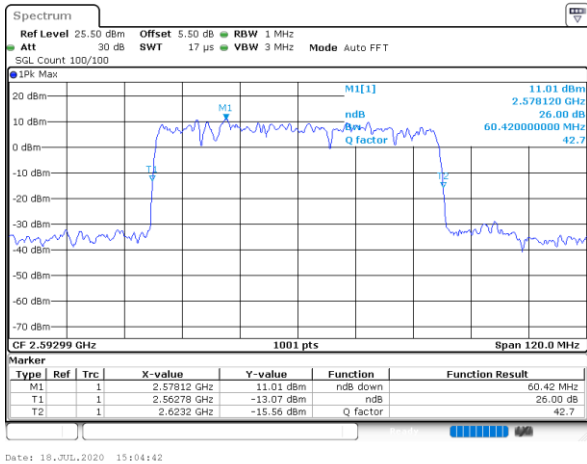
Date: 18_JUL_2020 15:06:14

64QAM



Date: 18_JUL_2020 15:05:22

256QAM

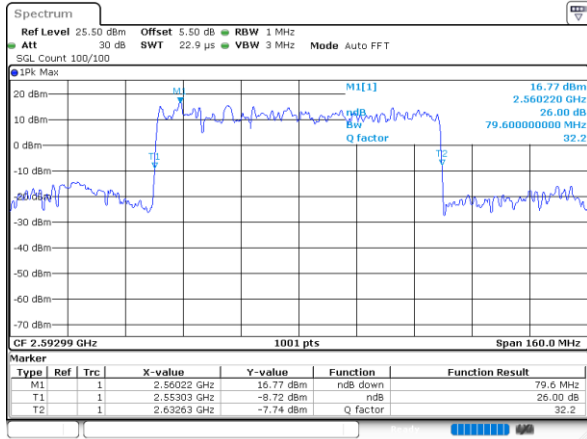


Date: 18_JUL_2020 15:04:42



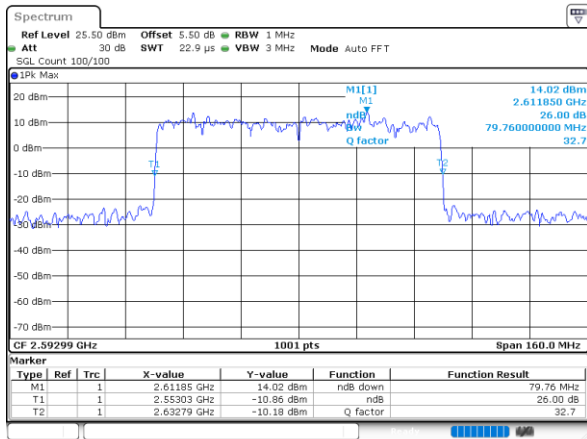
FR1 n41 / 80MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK



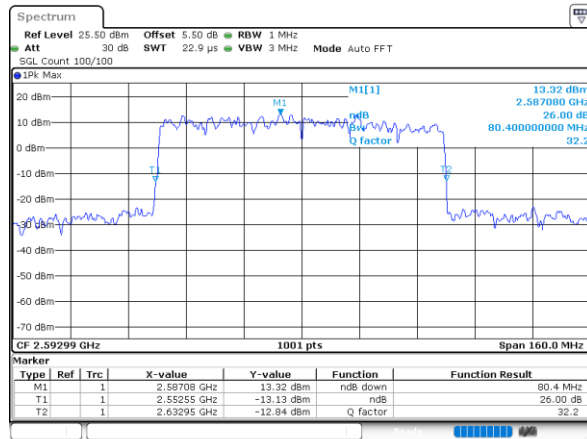
Date: 18_JUL_2020 15:10:47

QPSK



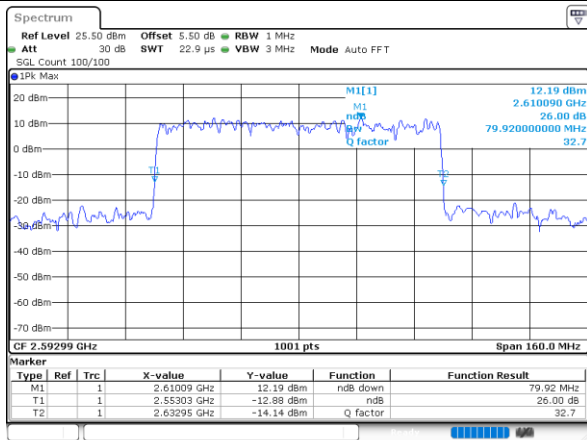
Date: 18_JUL_2020 15:11:24

16QAM



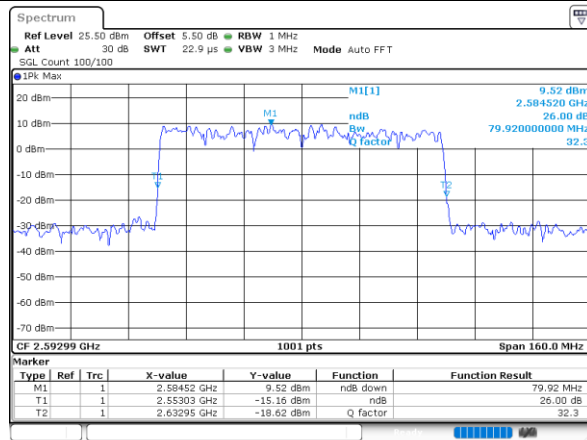
Date: 18_JUL_2020 15:11:55

64QAM



Date: 18_JUL_2020 15:12:52

256QAM

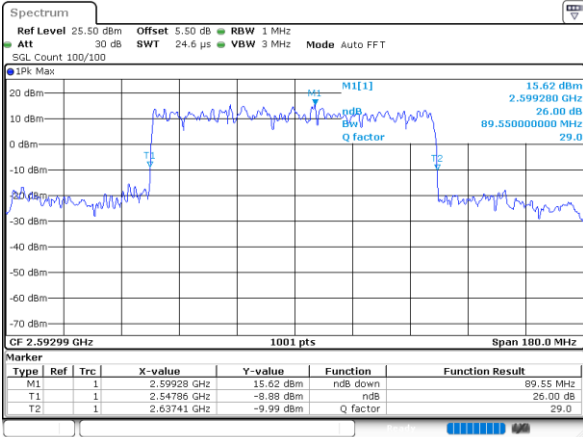


Date: 18_JUL_2020 15:13:31



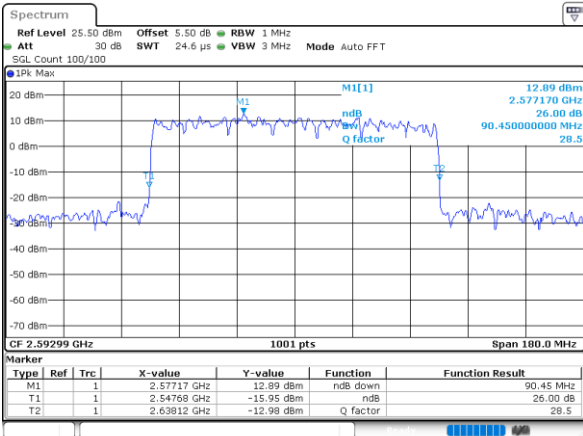
FR1 n41 / 90MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK



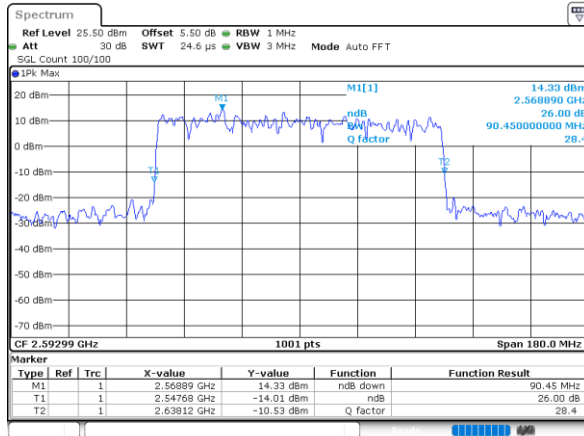
Date: 18_JUL_2020 15:16:30

QPSK



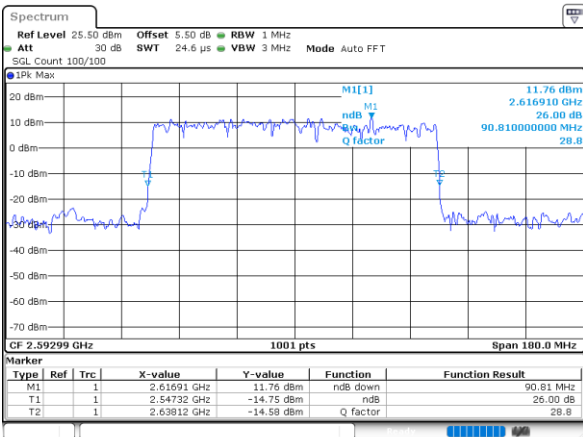
Date: 18_JUL_2020 15:15:42

16QAM



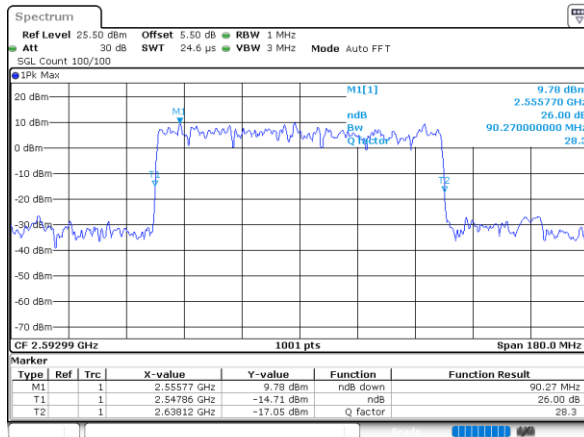
Date: 18_JUL_2020 15:15:11

64QAM



Date: 18_JUL_2020 15:14:42

256QAM

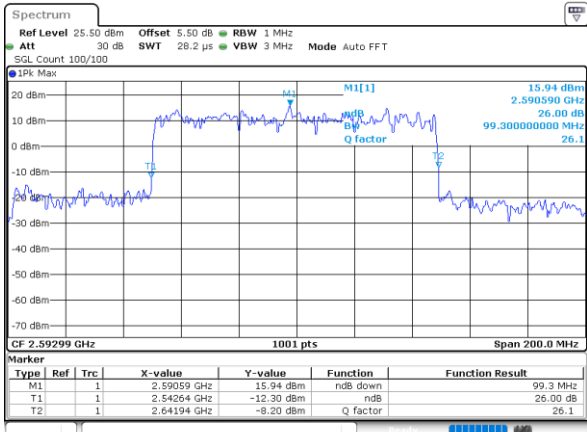


Date: 18_JUL_2020 15:14:07



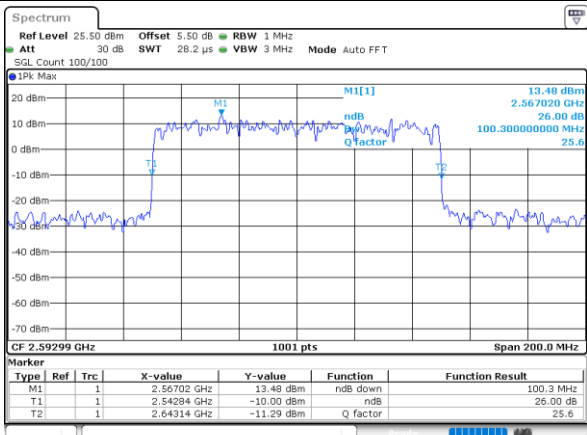
FR1 n41 / 100MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK



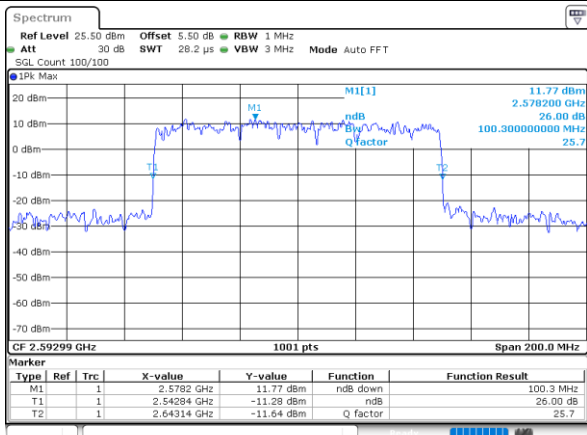
Date: 18_JUL_2020 15:18:46

QPSK



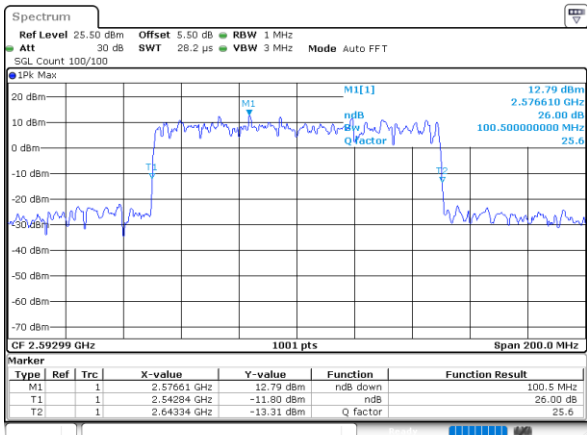
Date: 18_JUL_2020 15:19:18

16QAM



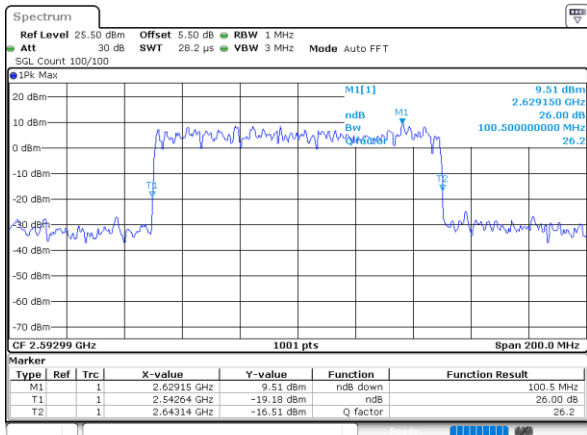
Date: 18_JUL_2020 15:19:44

64QAM



Date: 18_JUL_2020 15:20:14

256QAM



Date: 18_JUL_2020 15:20:46



Occupied Bandwidth

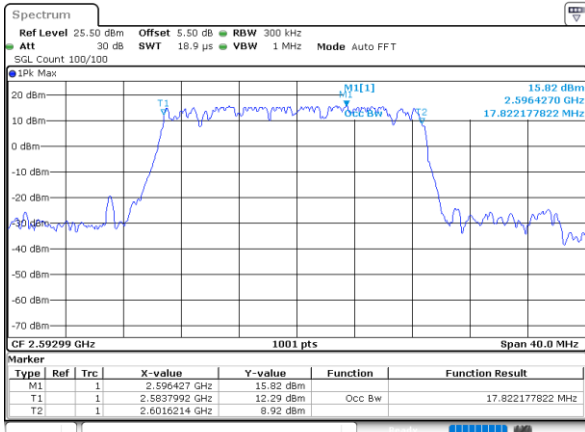
Mode	FR1 n41 : OB BW(MHz) / DFT-S OFDM							
BW	20MHz	40MHz	50MHz	60MHz	80MHz	90MHz	100MHz	
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	
Middle CH	17.82	36.20	45.85	57.66	77.04	87.03	96.50	

Mode	FR1 n41 : OB BW(MHz) / CP OFDM							
BW	20MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	18.30	18.14	37.88	37.96	47.65	47.75	57.90	57.66
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	18.10	18.14	38.12	37.96	47.65	47.75	57.78	58.02
BW	80MHz		90MHz		100MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	77.52	76.88	87.03	87.21	97.10	97.50		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	77.68	77.20	87.57	87.21	97.10	97.50		



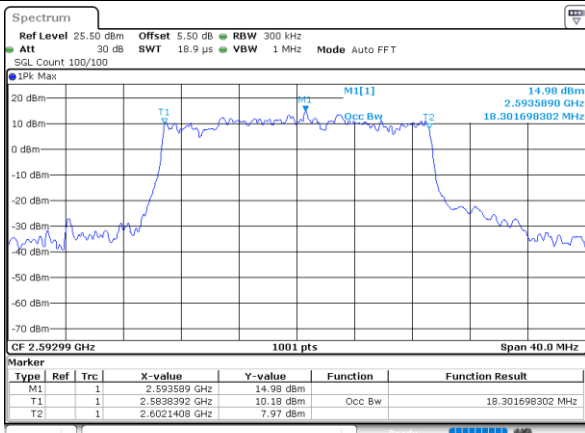
FR1 n41 / 20MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK



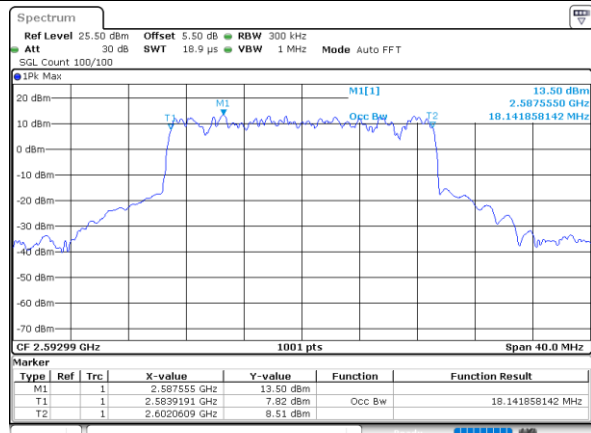
Date: 18_JUL_2020 14:43:38

QPSK



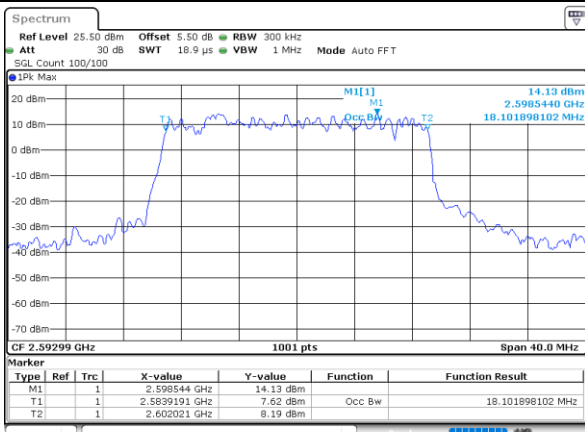
Date: 18_JUL_2020 14:45:41

16QAM



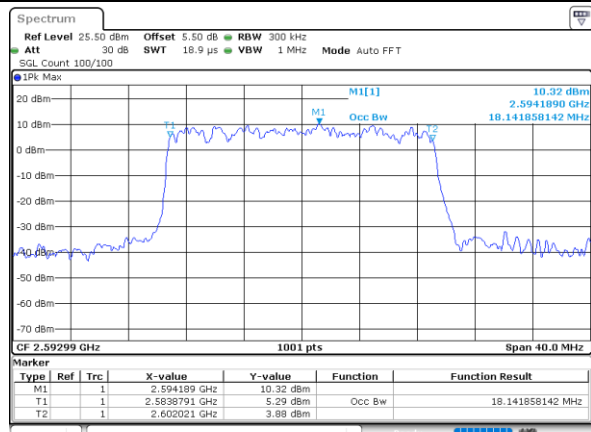
Date: 18_JUL_2020 14:46:45

64QAM



Date: 18_JUL_2020 14:47:34

256QAM

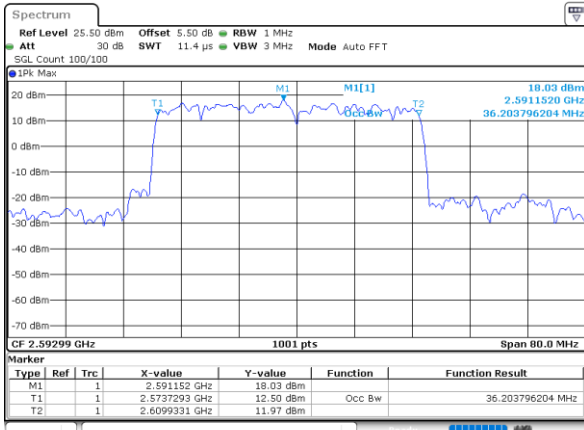


Date: 18_JUL_2020 14:49:02



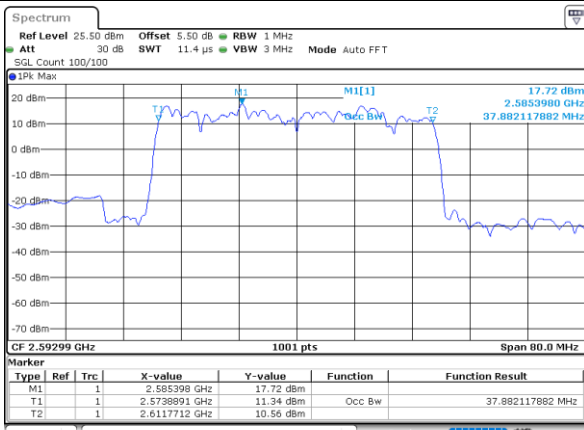
FR1 n41 / 40MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK



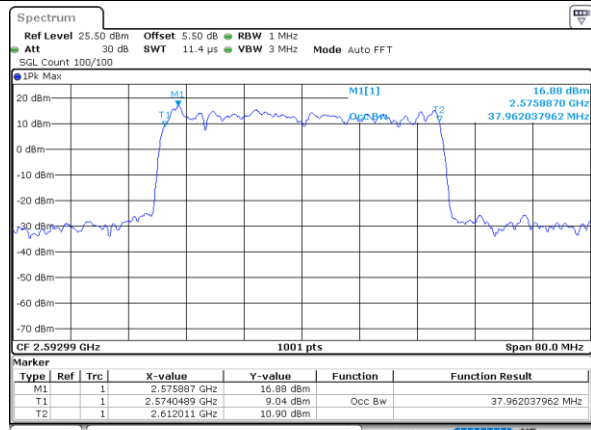
Date: 18_JUL_2020 14:54:17

QPSK



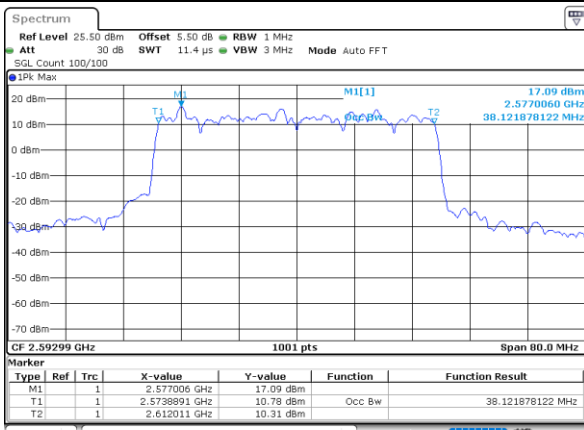
Date: 18_JUL_2020 14:53:06

16QAM



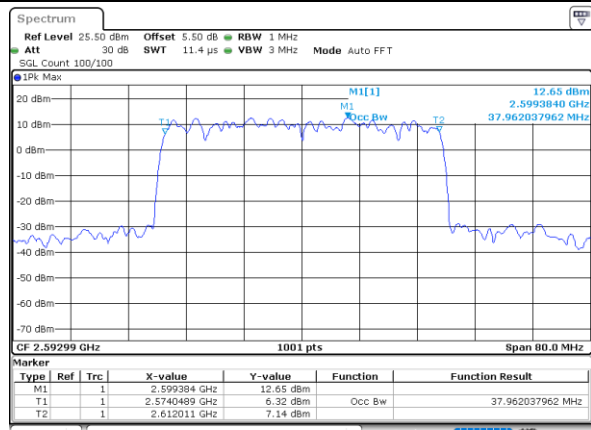
Date: 18_JUL_2020 14:53:03

64QAM



Date: 18_JUL_2020 14:52:35

256QAM

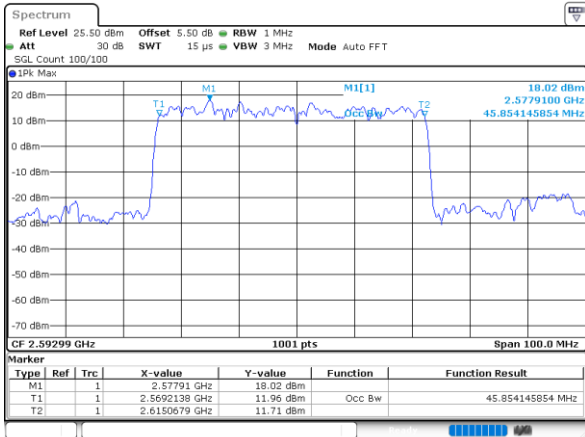


Date: 18_JUL_2020 14:50:28

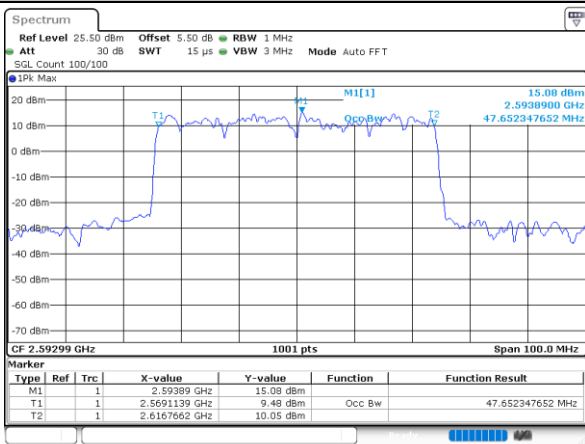


FR1 n41 / 50MHz / DFT-S OFDM / Middle Channel

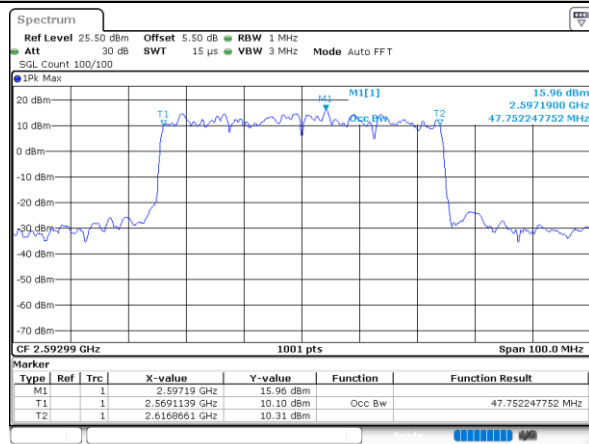
PI/2 BPSK



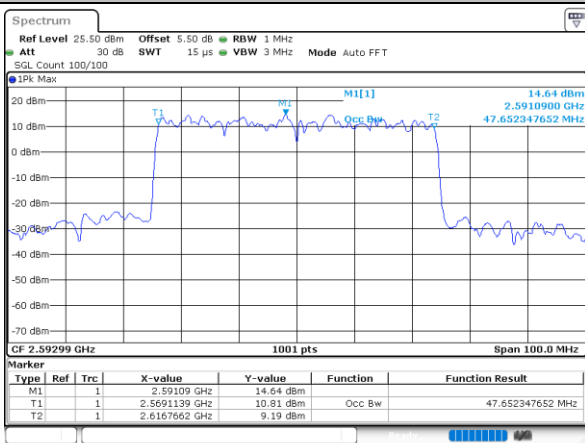
QPSK



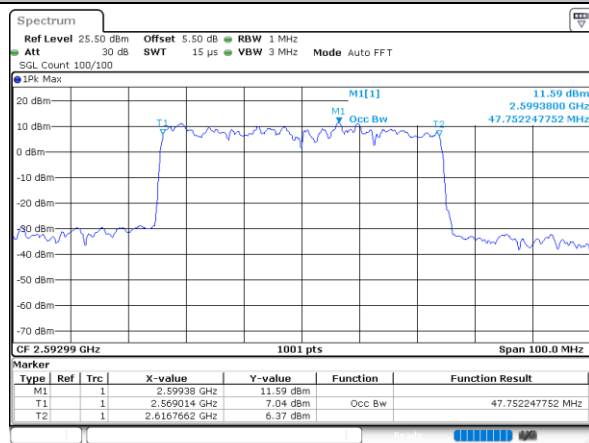
16QAM



64QAM



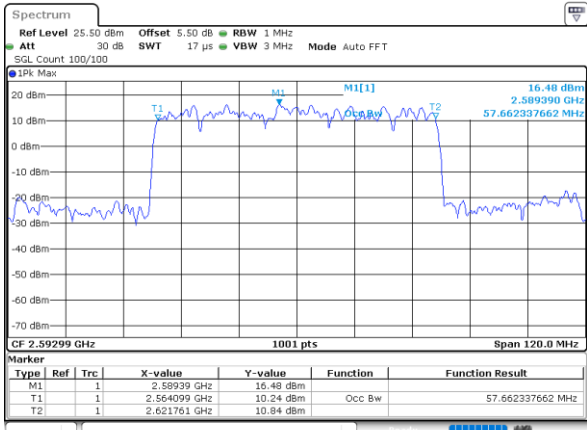
256QAM





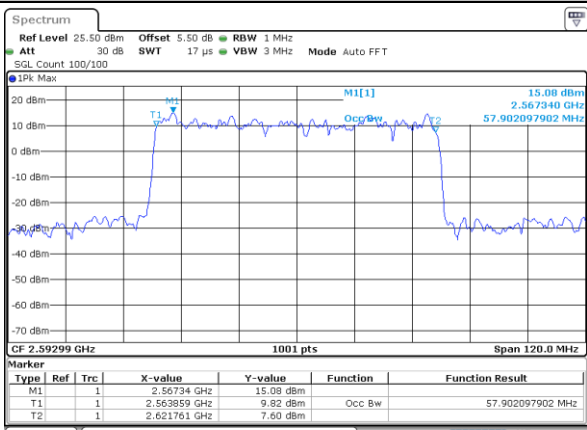
FR1 n41 / 60MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK



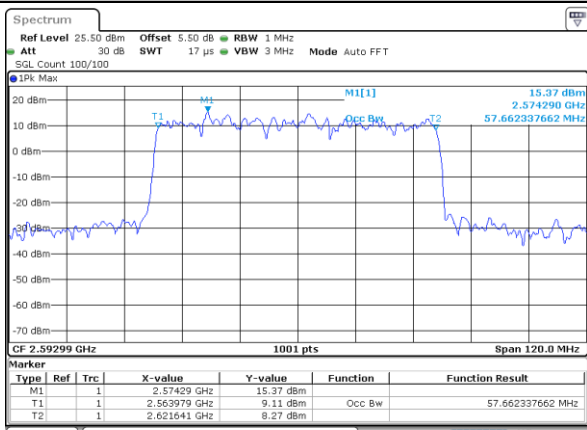
Date: 18_JUL_2020 15:09:25

QPSK



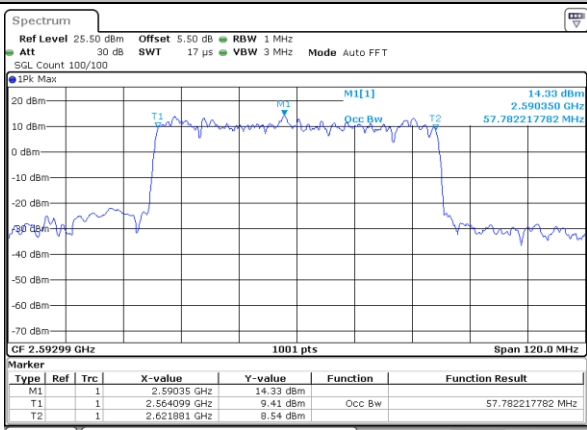
Date: 18_JUL_2020 15:08:33

16QAM



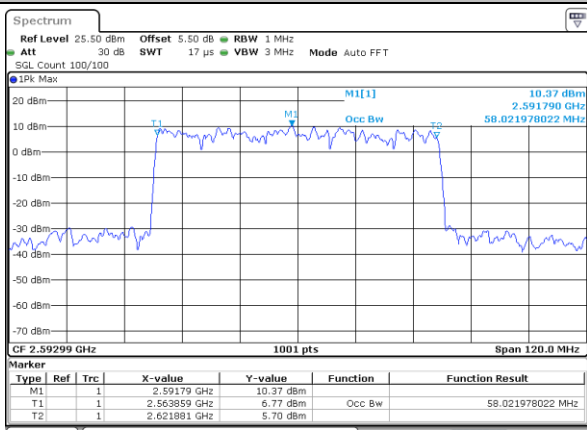
Date: 18_JUL_2020 15:06:07

64QAM



Date: 18_JUL_2020 15:05:15

256QAM

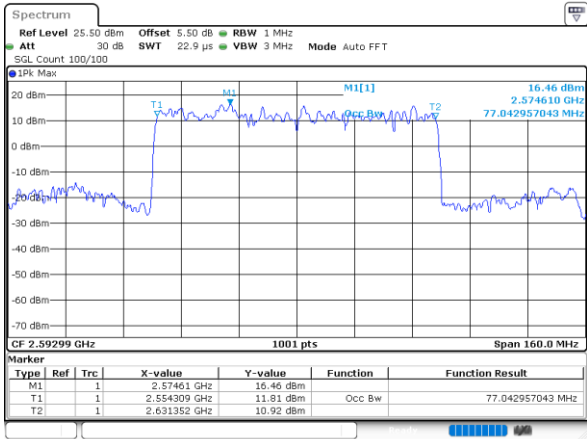


Date: 18_JUL_2020 15:04:36

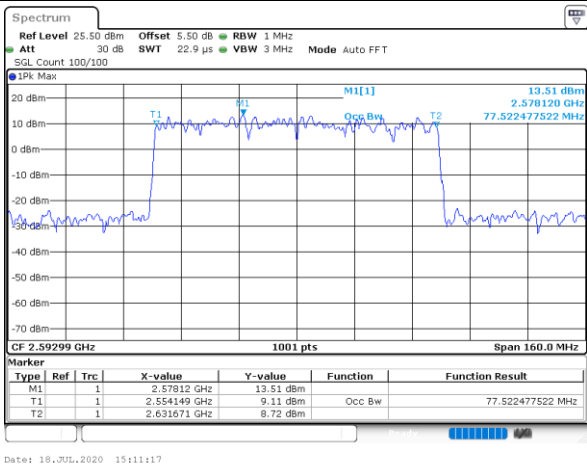


FR1 n41 / 80MHz / DFT-S OFDM / Middle Channel

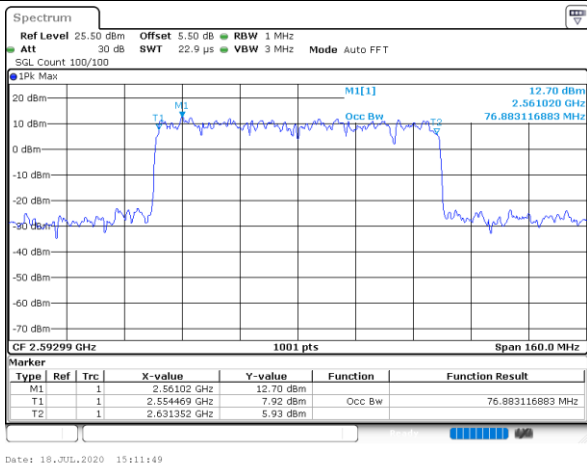
PI/2 BPSK



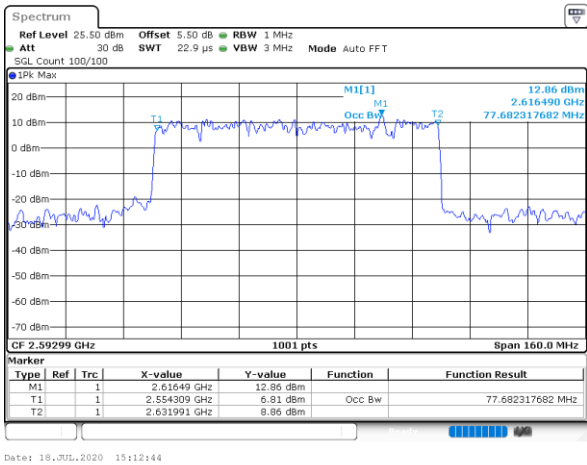
QPSK



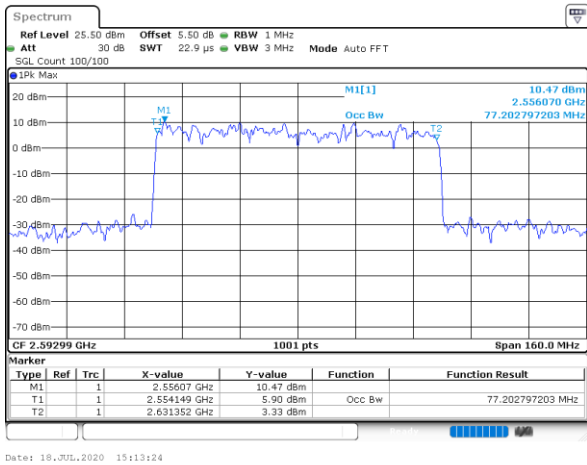
16QAM



64QAM



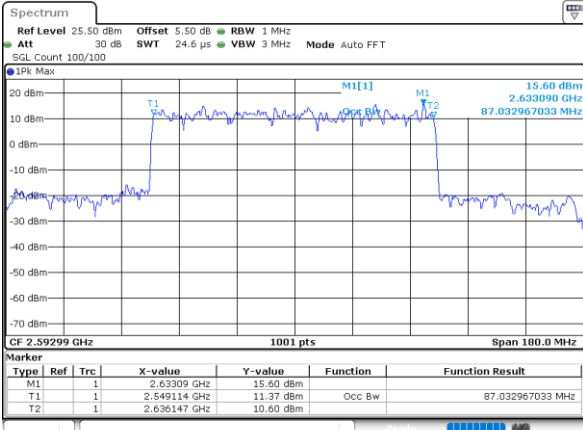
256QAM





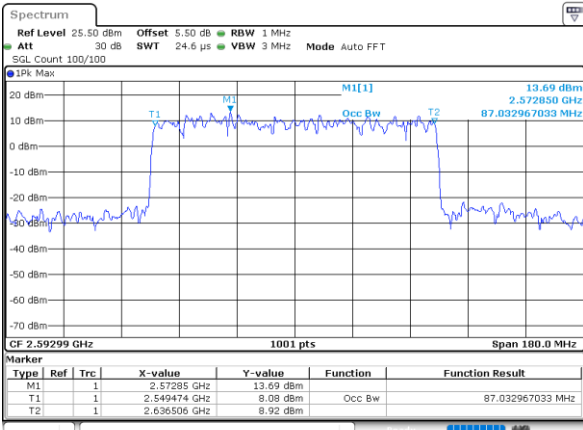
FR1 n41 / 90MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK



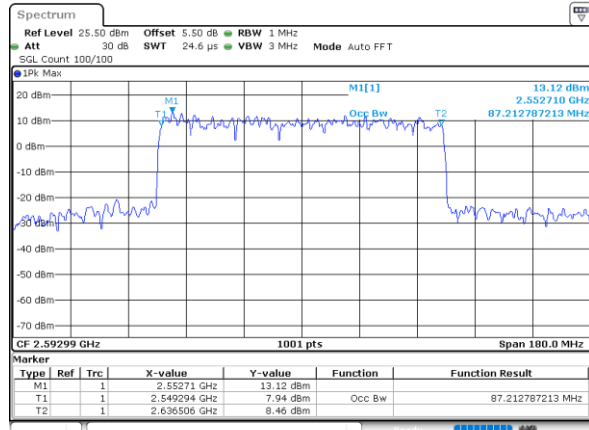
Date: 18_JUL_2020 15:16:24

QPSK



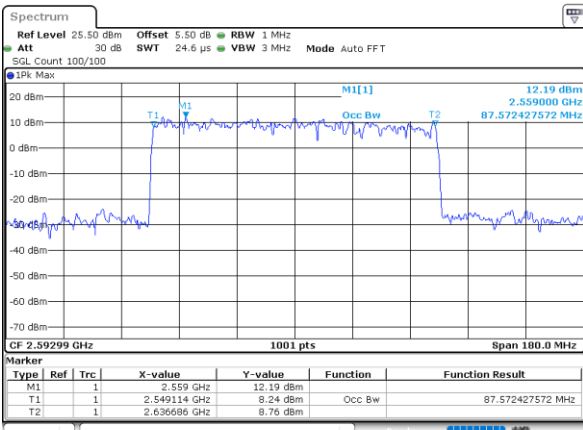
Date: 18_JUL_2020 15:15:03

16QAM



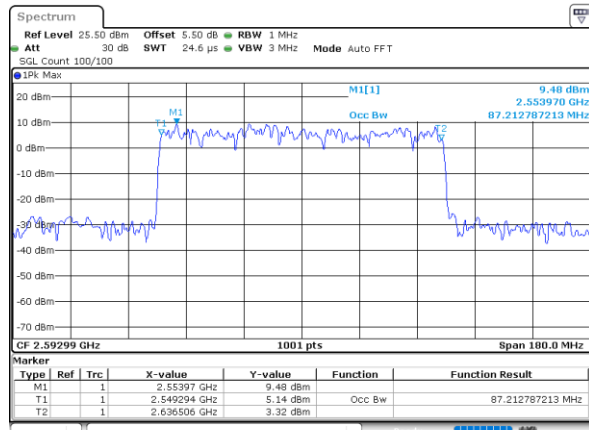
Date: 18_JUL_2020 15:15:03

64QAM



Date: 18_JUL_2020 15:14:36

256QAM

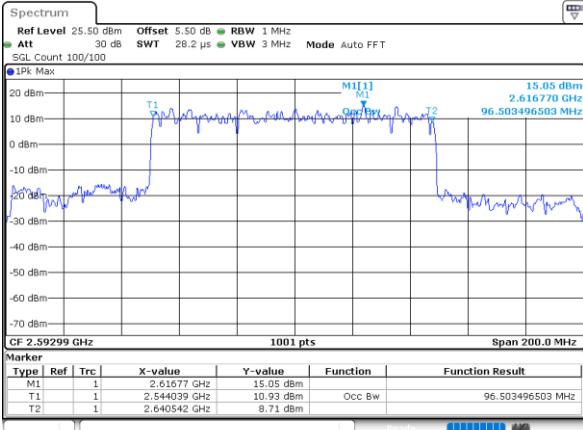


Date: 18_JUL_2020 15:14:01



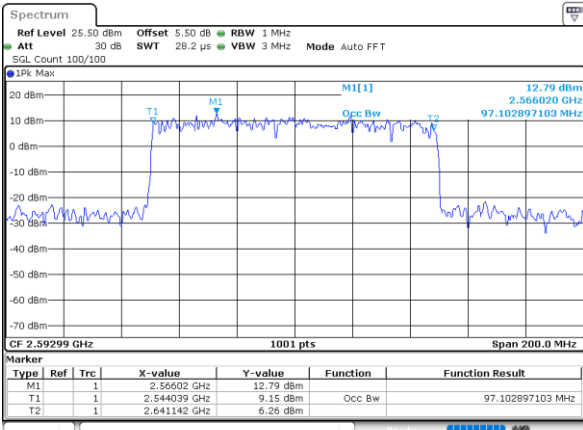
FR1 n41 / 100MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK



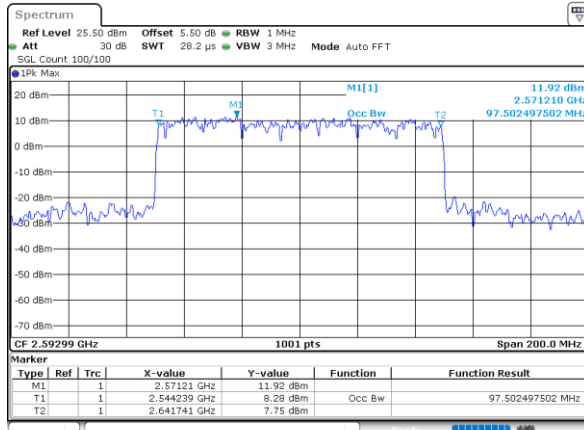
Date: 18_JUL_2020 15:18:36

QPSK



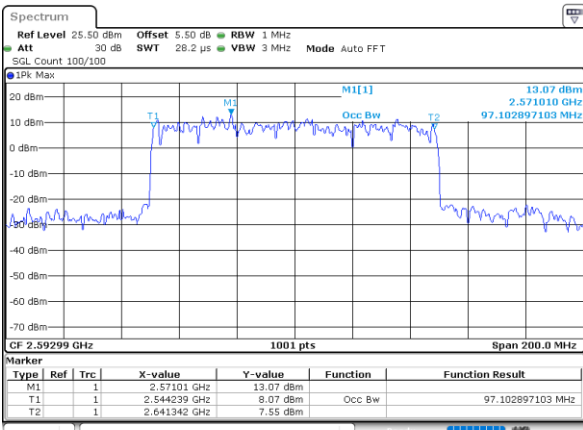
Date: 18_JUL_2020 15:19:11

16QAM



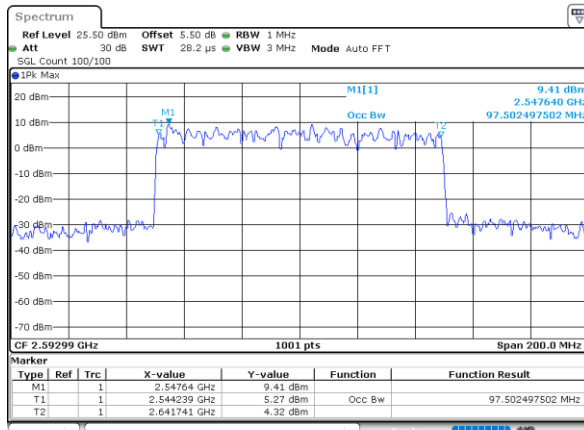
Date: 18_JUL_2020 15:19:37

64QAM



Date: 18_JUL_2020 15:20:04

256QAM



Date: 18_JUL_2020 15:20:40

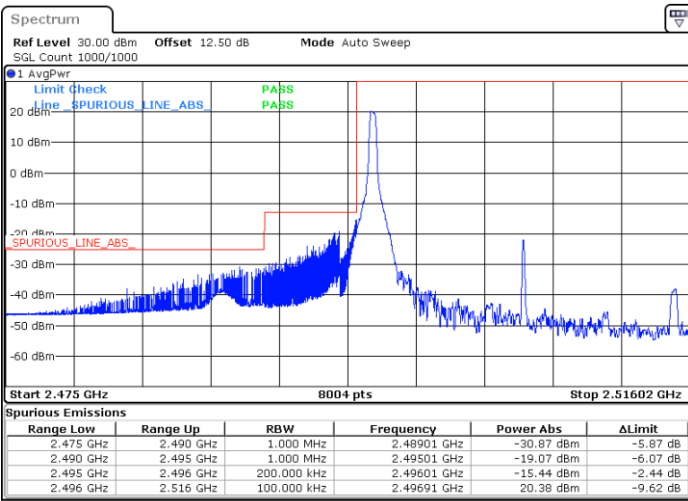


Conducted Band Edge

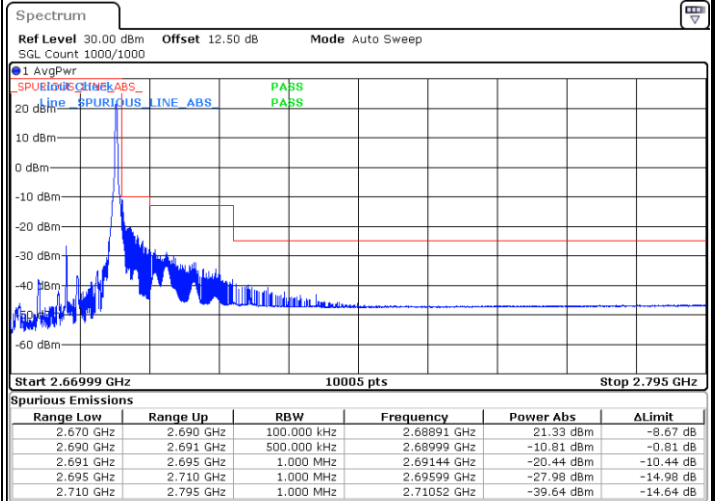
FR1 n41 / 20MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



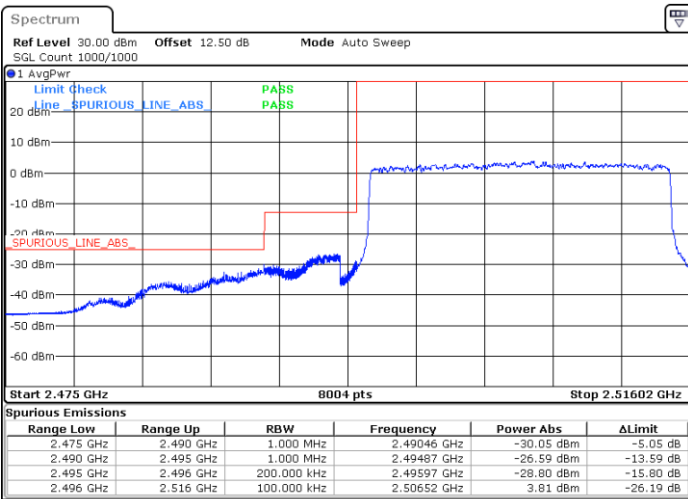
Date: 17.JUL.2020 04:41:31



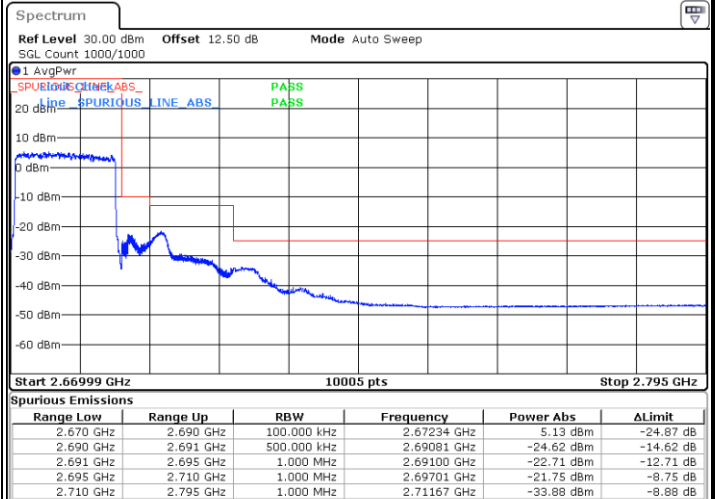
Date: 17.JUL.2020 05:37:40

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17.JUL.2020 04:23:15



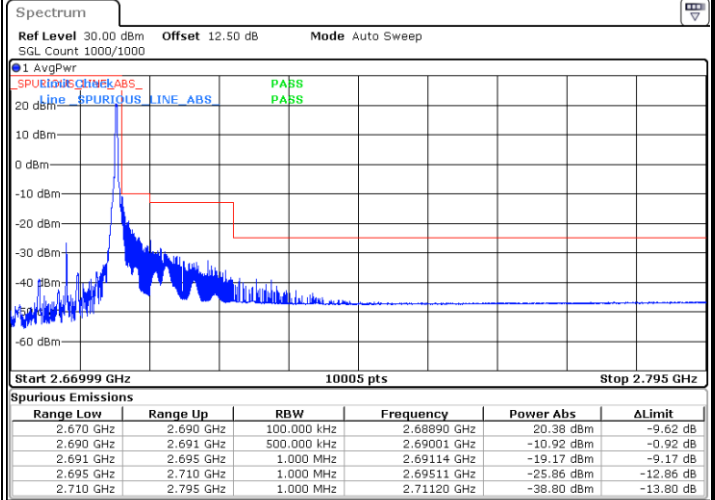
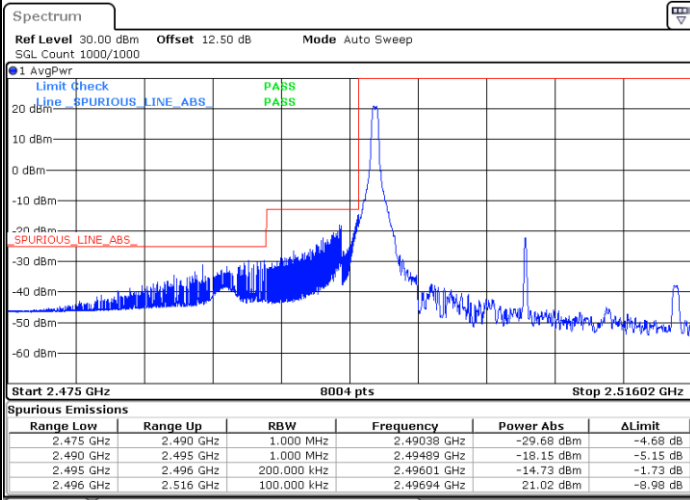
Date: 17.JUL.2020 05:35:40



FR1 n41 / 20MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

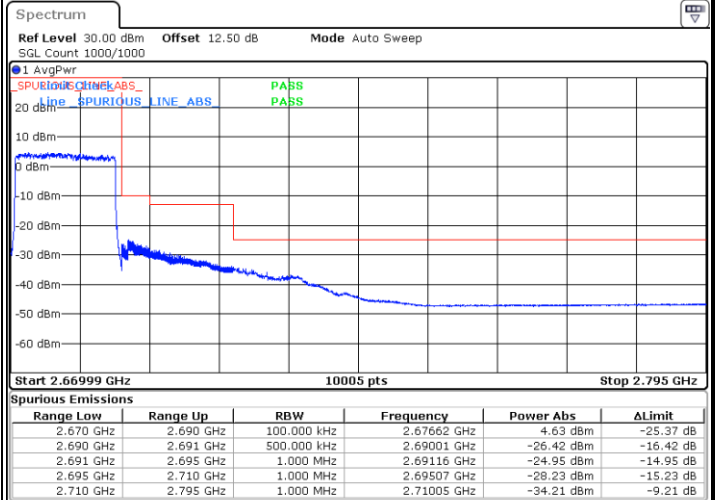
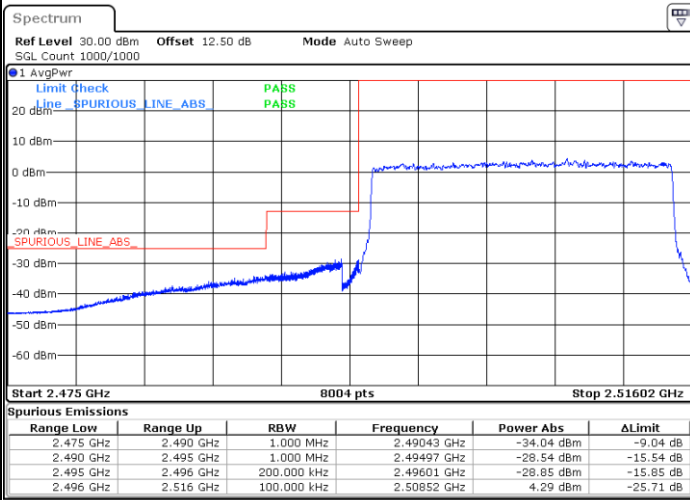


Date: 17.JUL.2020 04:40:20

Date: 17.JUL.2020 06:20:10

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17.JUL.2020 04:38:25

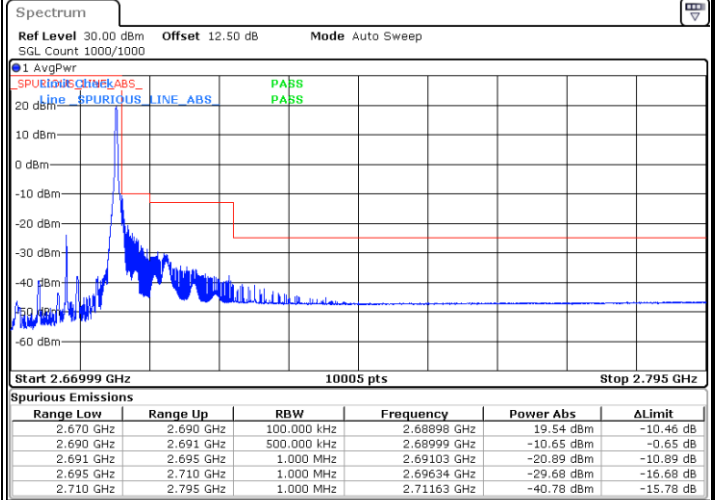
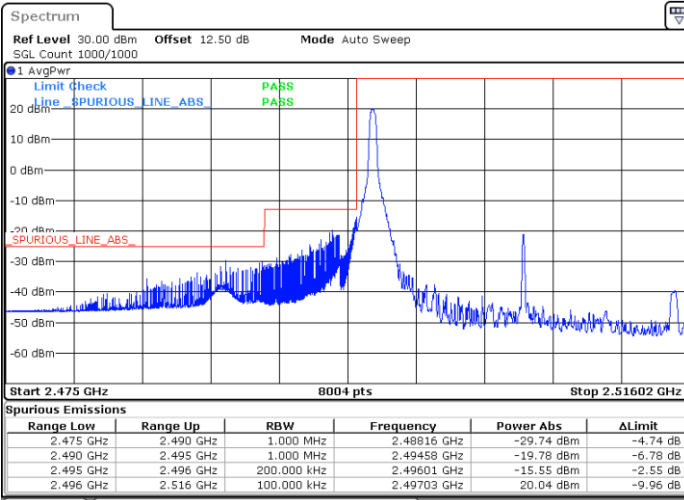
Date: 17.JUL.2020 06:38:59



FR1 n41 / 20MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

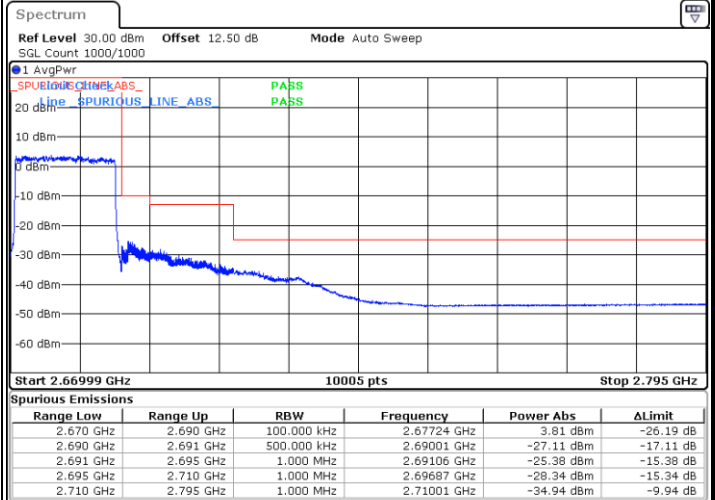
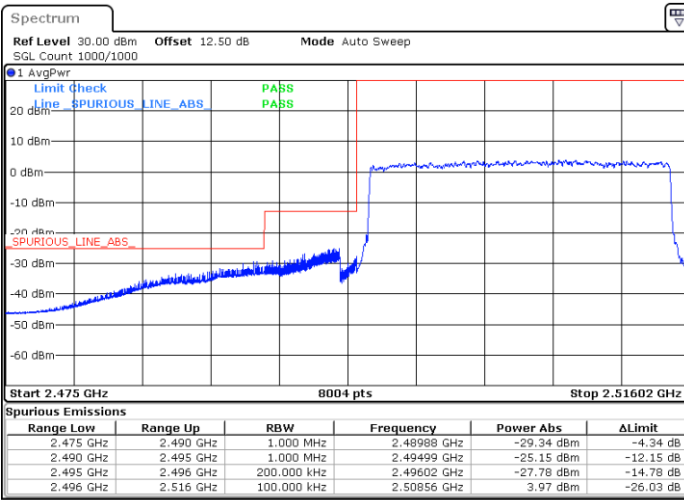


Date: 17.JUL.2020 04:49:49

Date: 17.JUL.2020 06:42:14

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17.JUL.2020 04:46:17

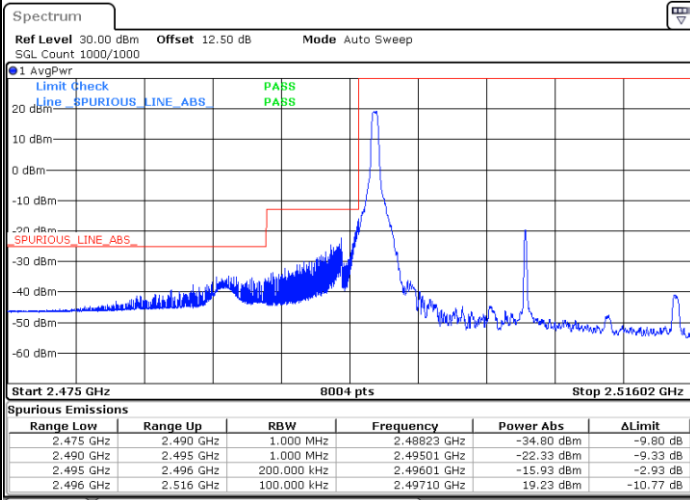
Date: 17.JUL.2020 06:40:45



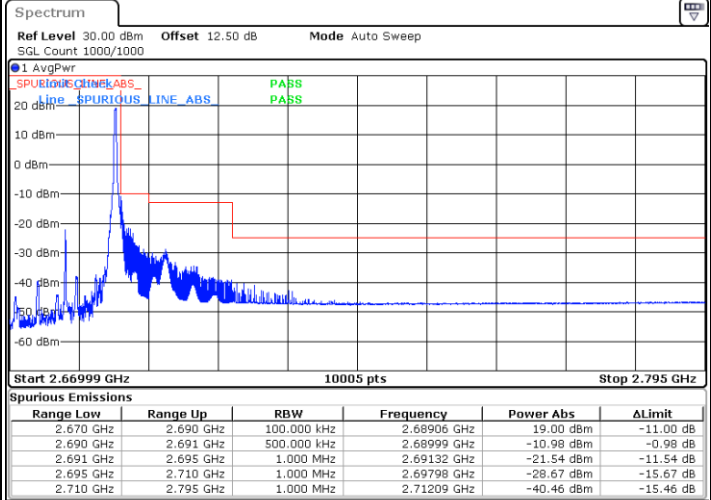
FR1 n41 / 20MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



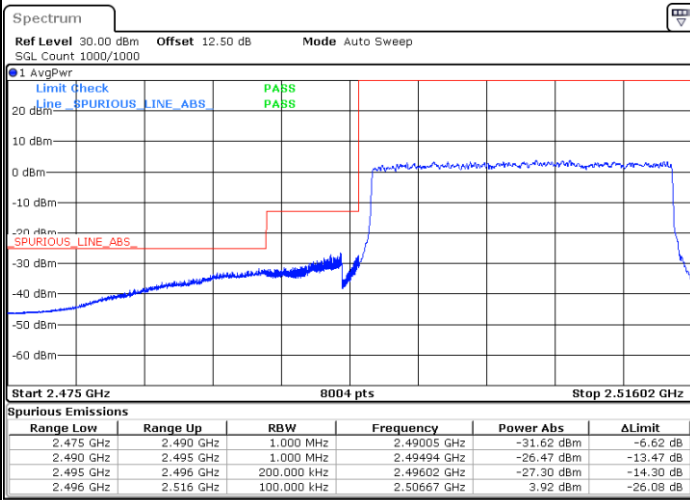
Date: 17.JUL.2020 04:48:33



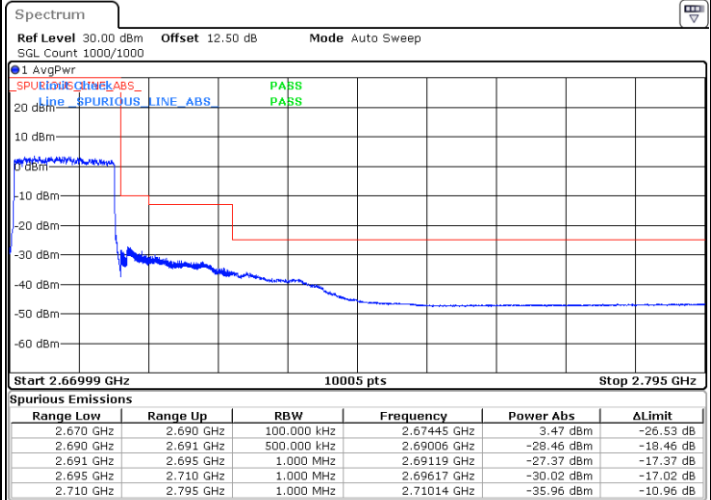
Date: 17.JUL.2020 06:52:07

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17.JUL.2020 04:47:26



Date: 17.JUL.2020 06:57:44