



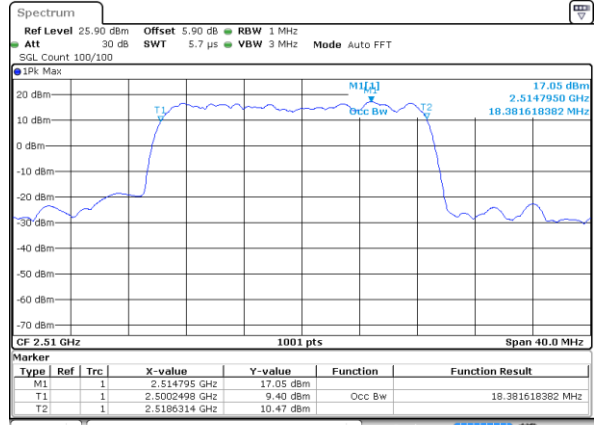
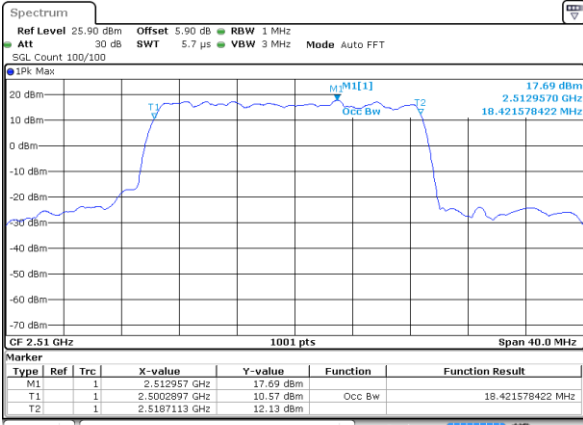
FR1 n7 / 20MHz / DFT-S OFDM

QPSK

16QAM

Lowest Channel

Lowest Channel

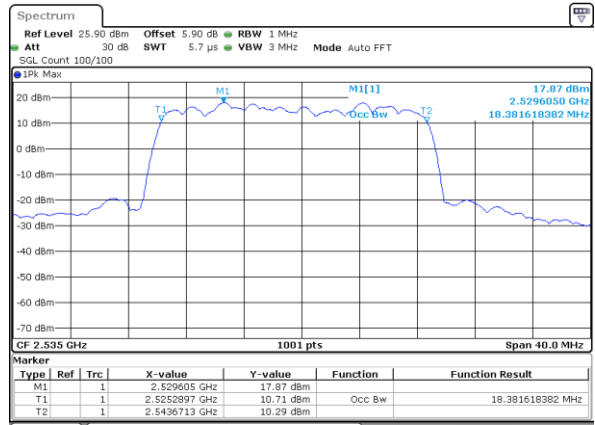
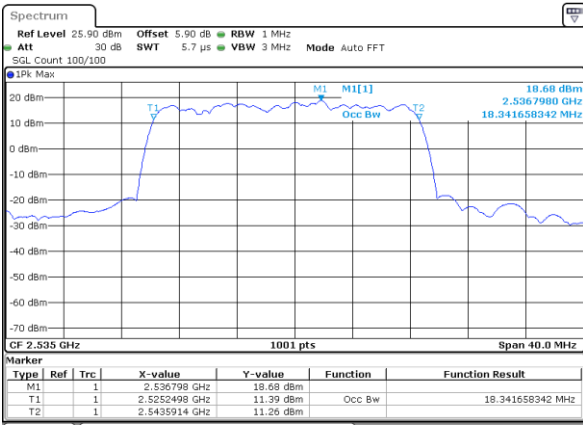


Date: 12 SEP 2020 22:00:17

Date: 12 SEP 2020 22:00:35

Middle Channel

Middle Channel

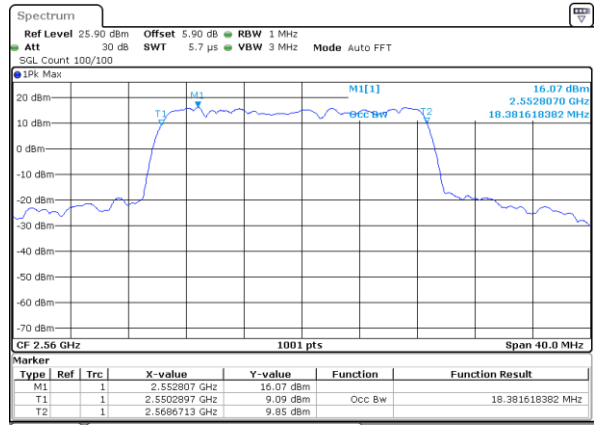
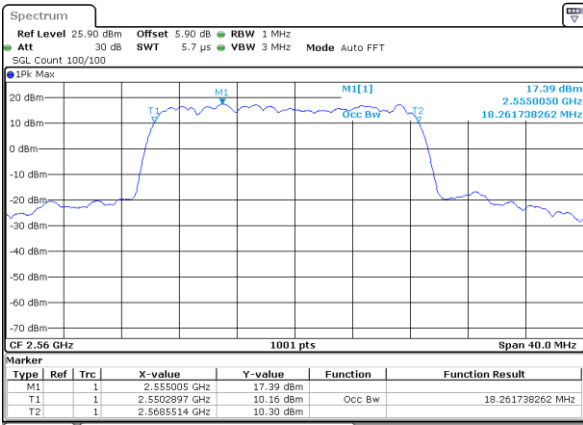


Date: 12 SEP 2020 22:01:51

Date: 12 SEP 2020 22:02:09

Highest Channel

Highest Channel



Date: 12 SEP 2020 22:06:00

Date: 12 SEP 2020 22:08:38



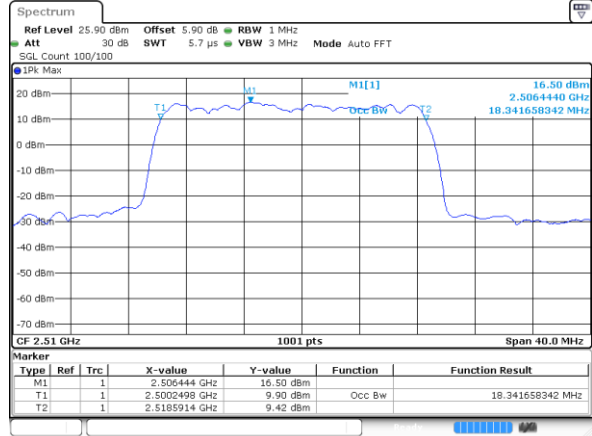
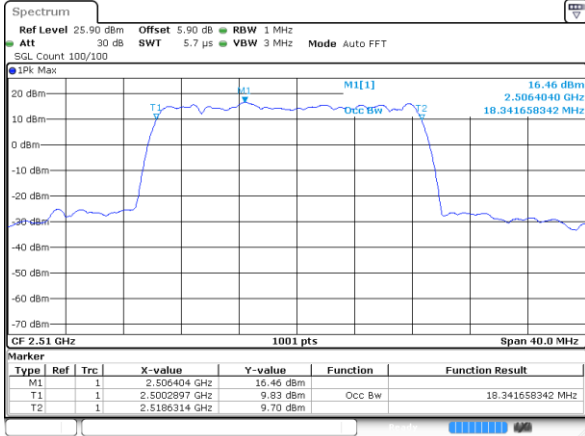
FR1 n7 / 20MHz / DFT-S OFDM

64QAM

256QAM

Lowest Channel

Lowest Channel

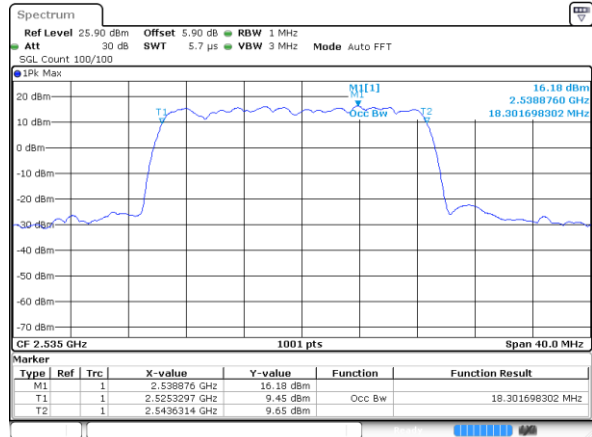
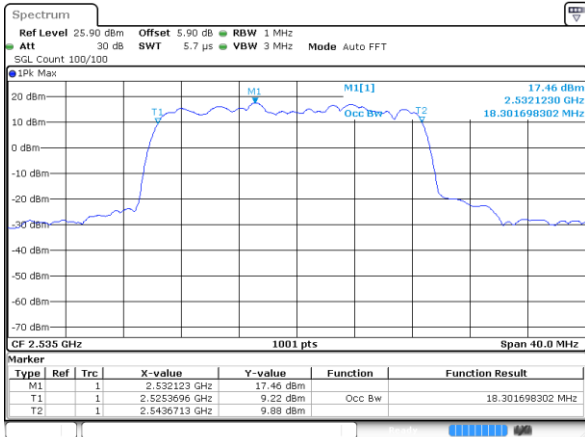


Date: 12 SEP 2020 22:00:51

Date: 12 SEP 2020 22:01:05

Middle Channel

Middle Channel

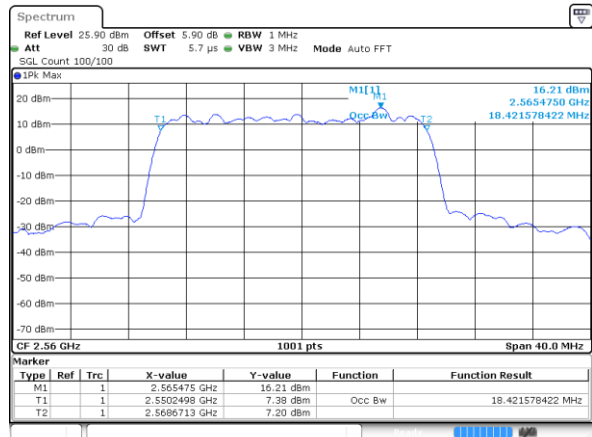
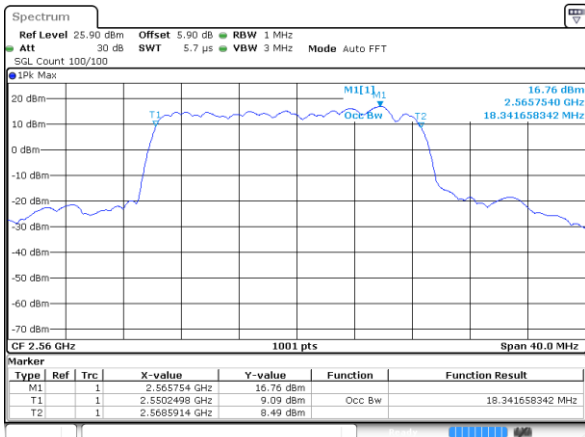


Date: 12 SEP 2020 22:02:41

Date: 12 SEP 2020 22:02:49

Highest Channel

Highest Channel



Date: 12 SEP 2020 22:09:01

Date: 12 SEP 2020 22:09:26

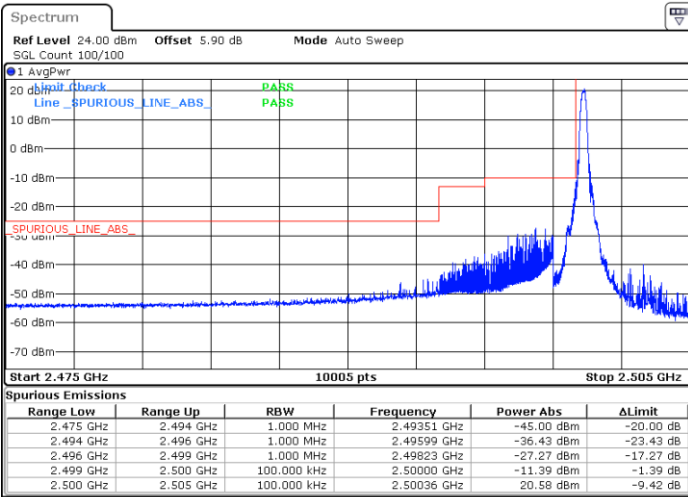


Conducted Band Edge

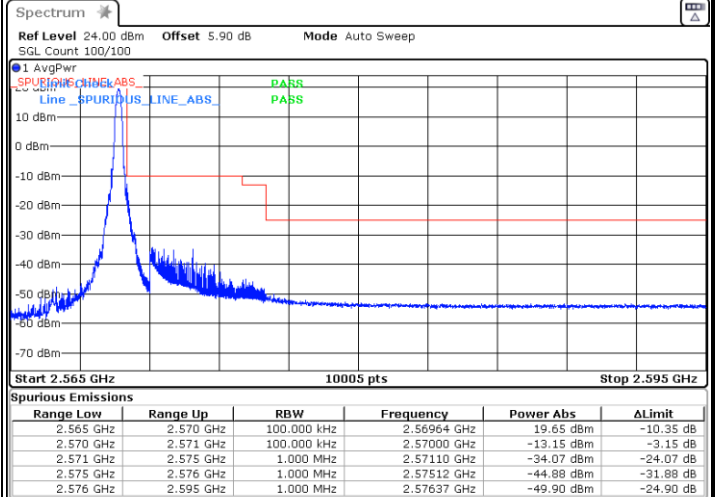
FR1 n7 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



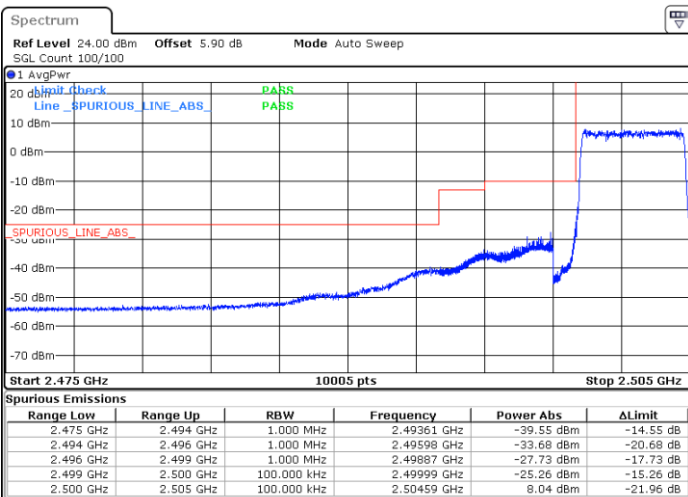
Date: 12.SEP.2020 22:58:23



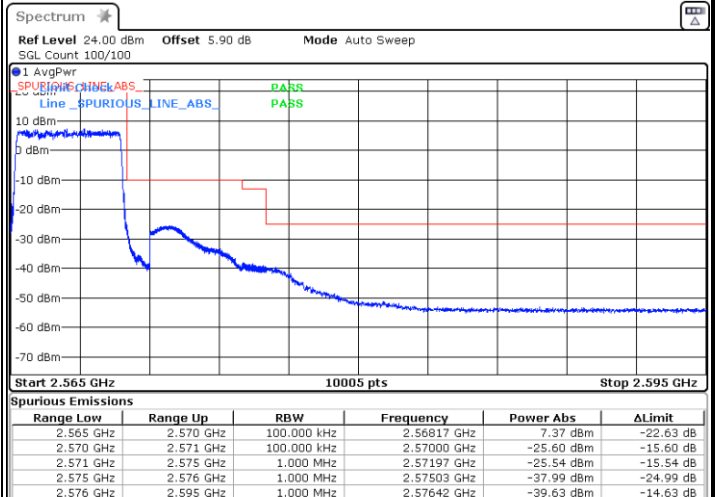
Date: 13.SEP.2020 00:14:07

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.SEP.2020 22:56:54



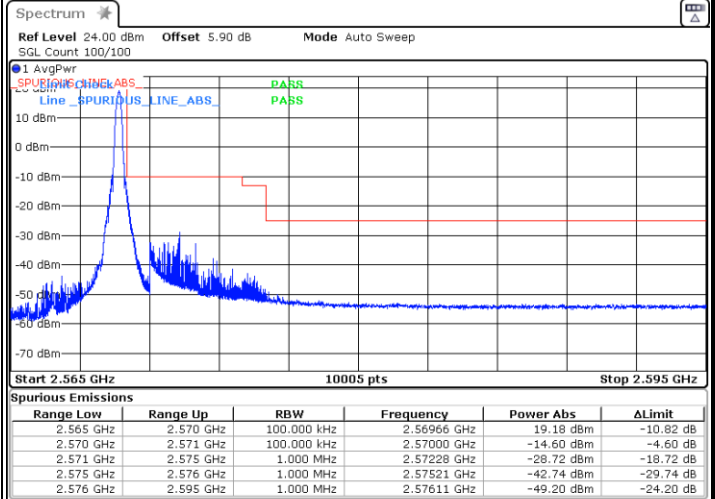
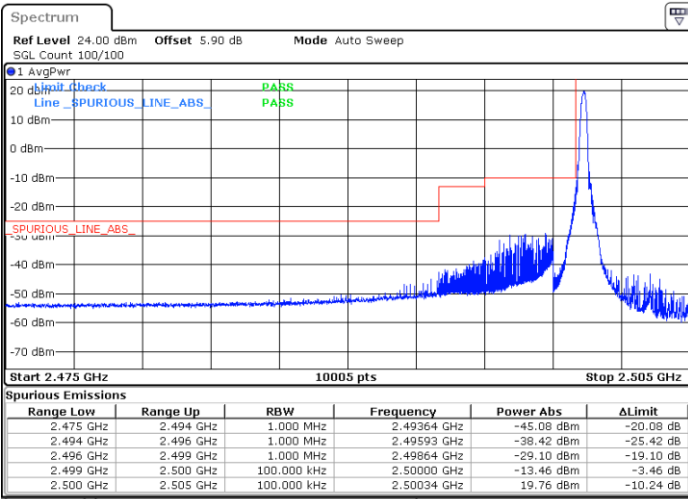
Date: 13.SEP.2020 00:12:34



FR1 n7 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

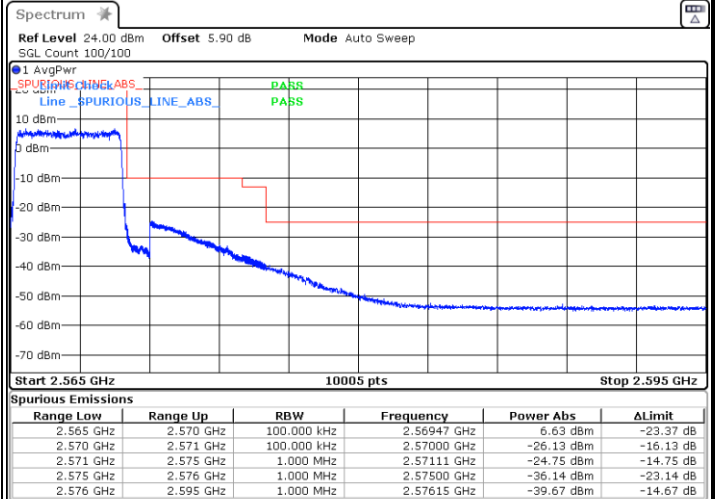
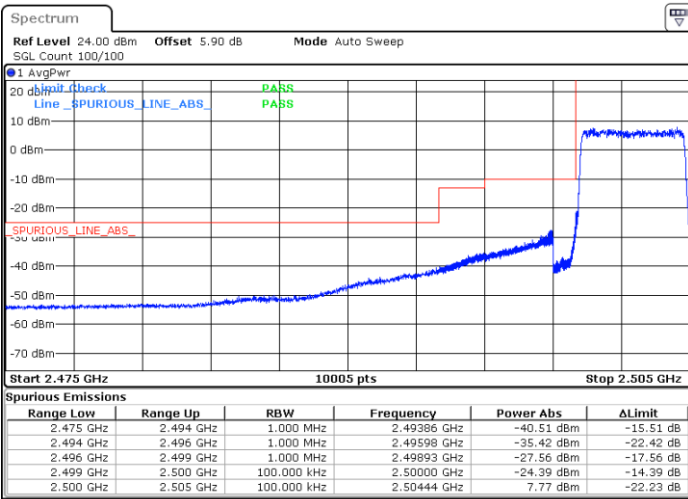


Date: 12.SEP.2020 22:58:37

Date: 13.SEP.2020 00:14:23

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.SEP.2020 22:57:11

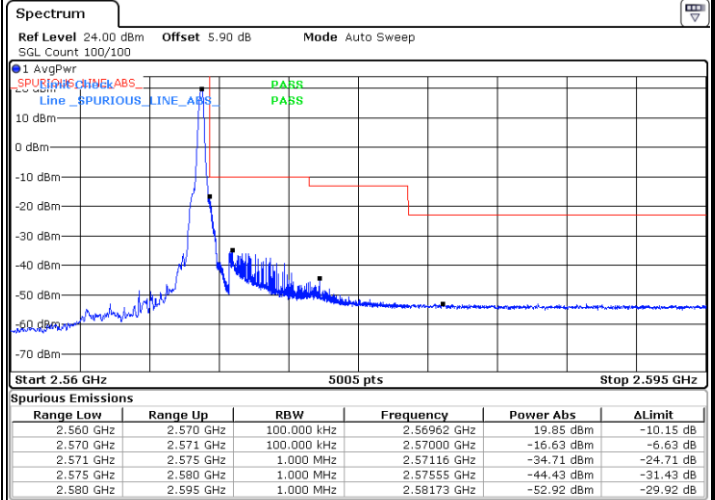
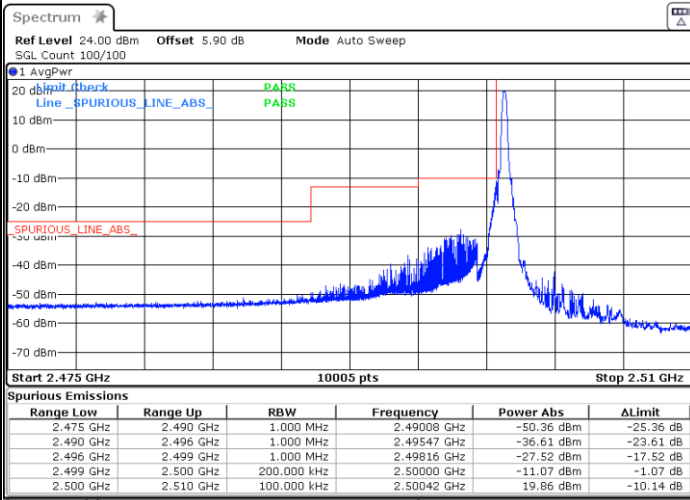
Date: 13.SEP.2020 00:12:50



FR1 n7 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

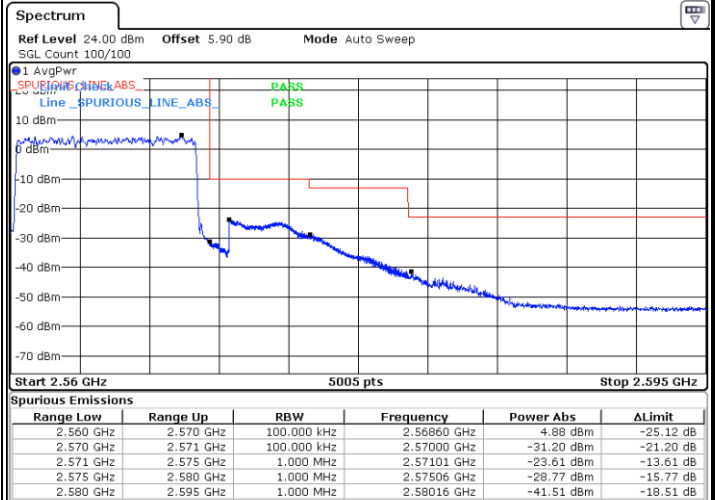
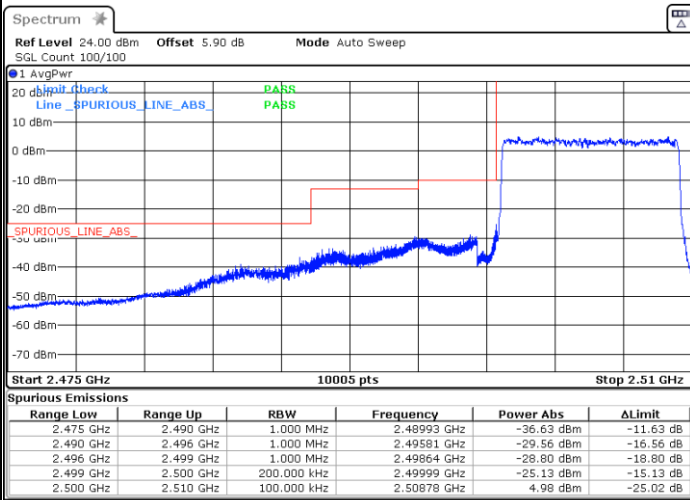


Date: 13.SEP.2020 00:39:18

Date: 12.SEP.2020 23:40:59

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.SEP.2020 00:36:43

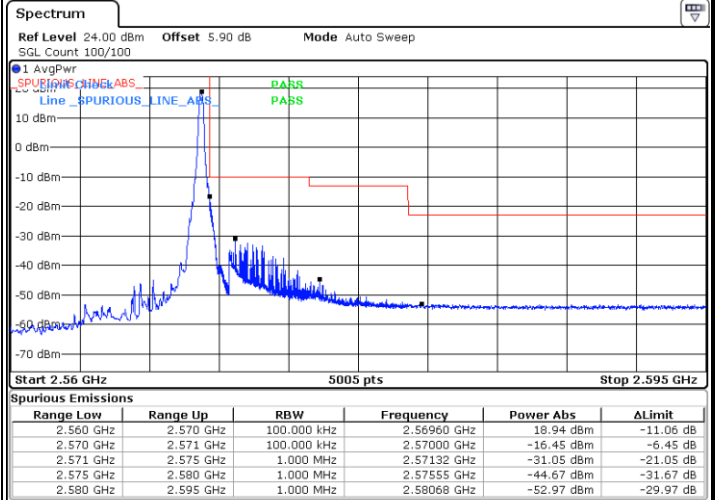
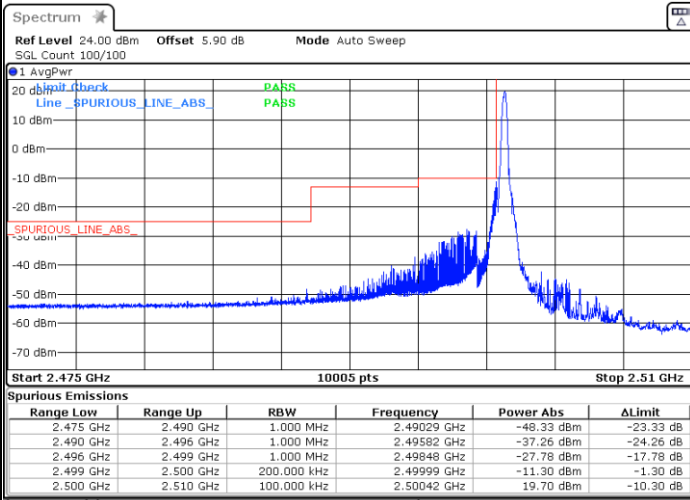
Date: 12.SEP.2020 23:38:42



FR1 n7 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

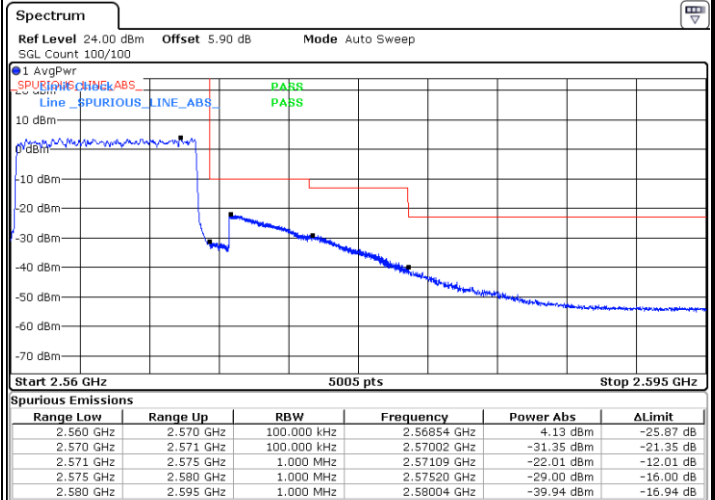
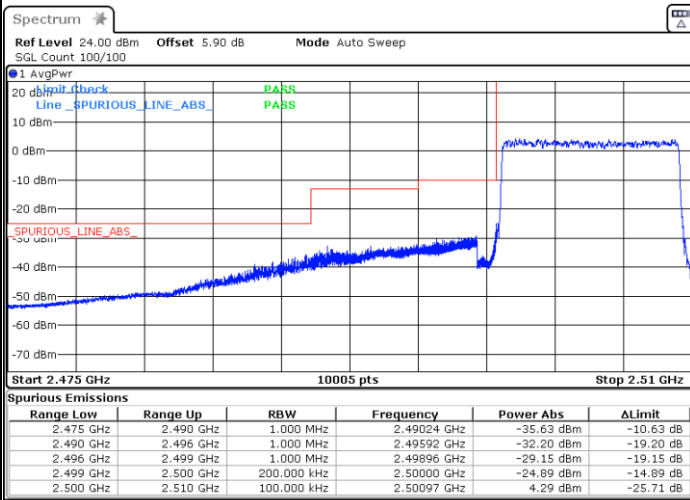


Date: 13.SEP.2020 00:39:38

Date: 12.SEP.2020 23:41:20

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.SEP.2020 00:37:24

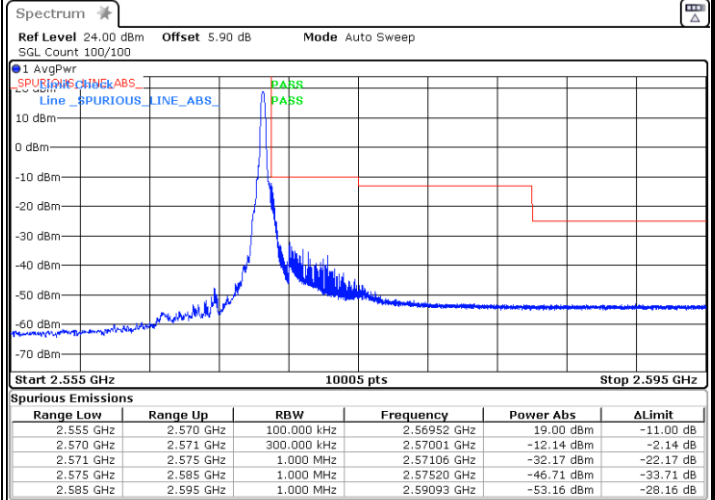
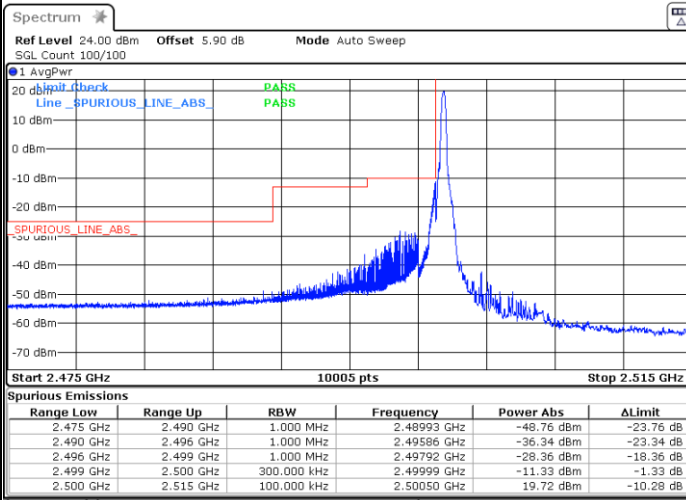
Date: 12.SEP.2020 23:39:20



FR1 n7 / 15MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

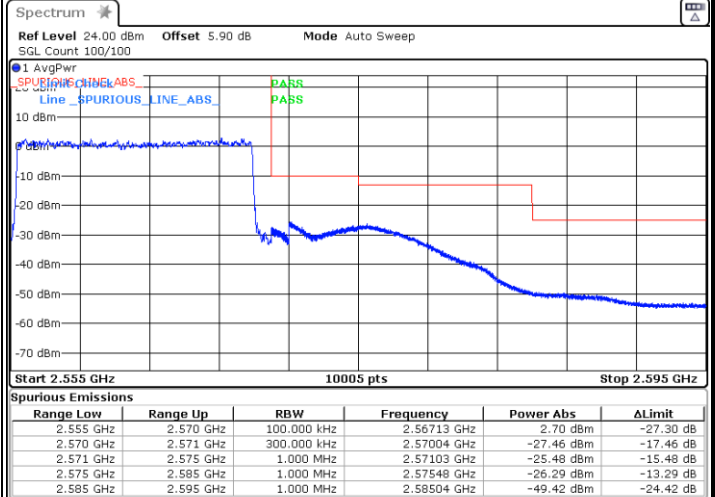
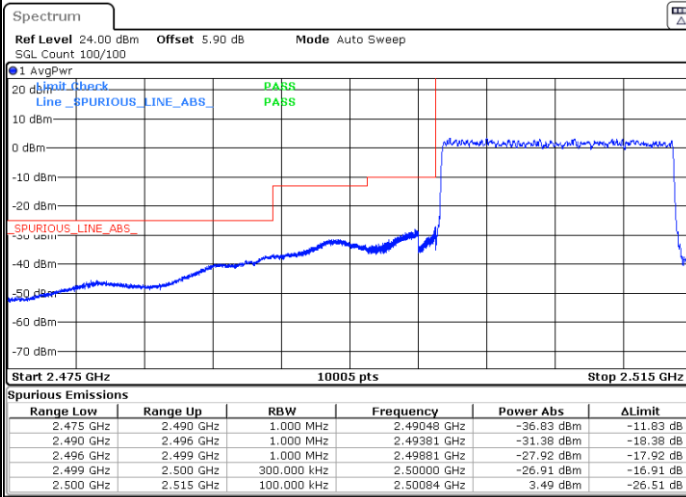


Date: 12.SEP.2020 23:59:30

Date: 13.SEP.2020 00:10:15

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.SEP.2020 23:55:59

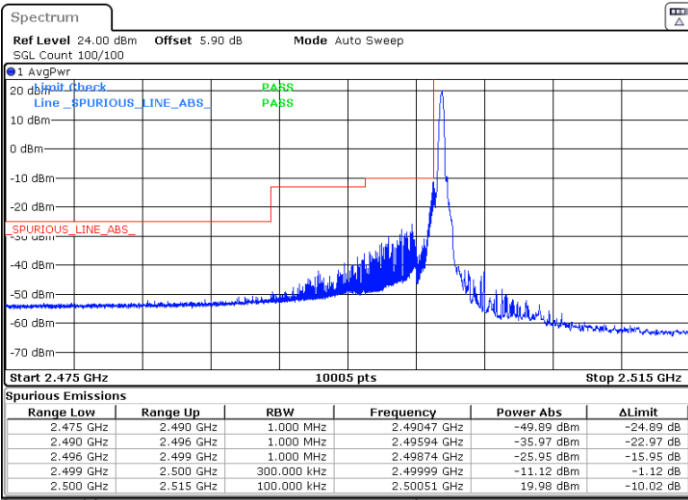
Date: 13.SEP.2020 00:08:23



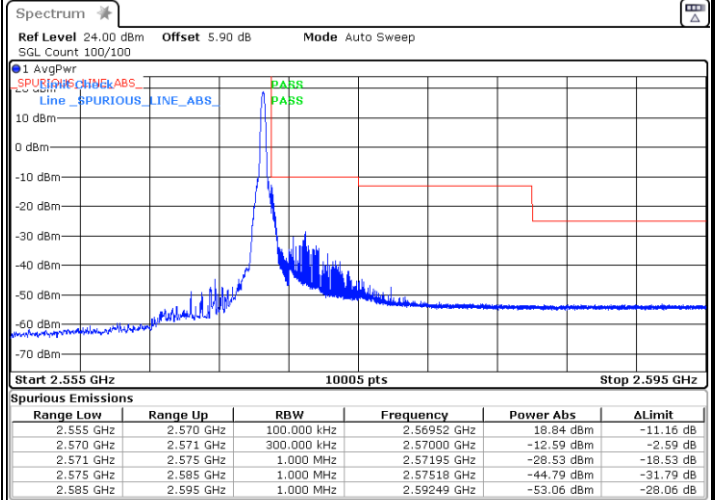
FR1 n7 / 15MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



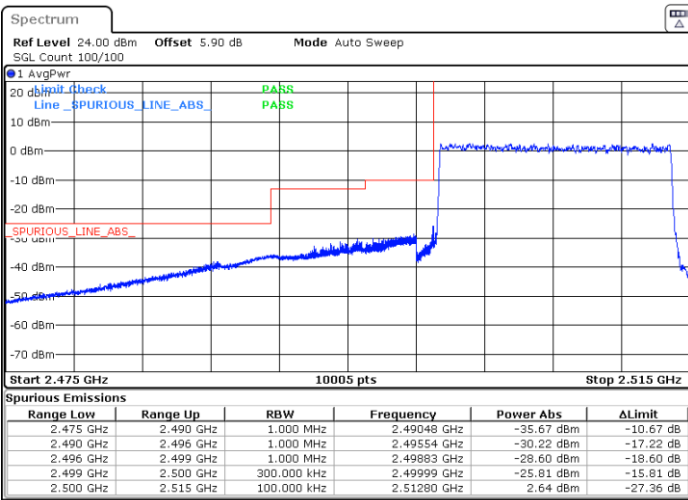
Date: 12.SEP.2020 23:59:53



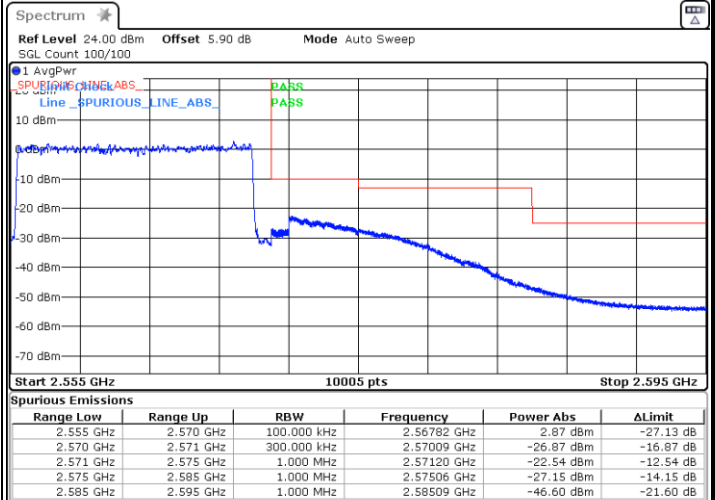
Date: 13.SEP.2020 00:10:32

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.SEP.2020 23:57:24



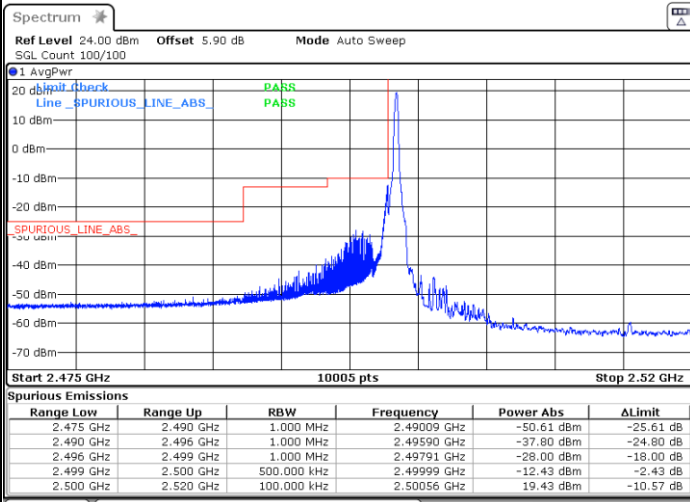
Date: 13.SEP.2020 00:08:40



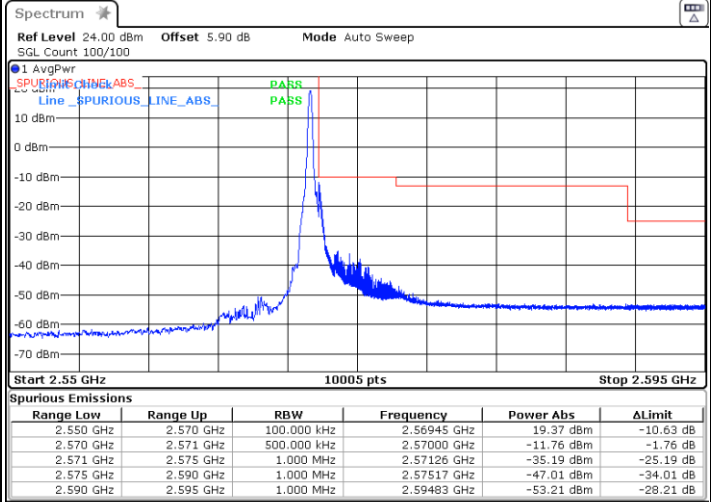
FR1 n7 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



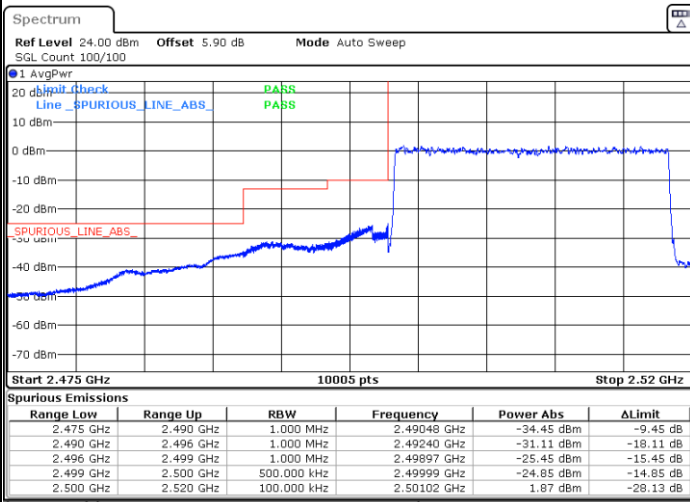
Date: 13.SEP.2020 00:18:08



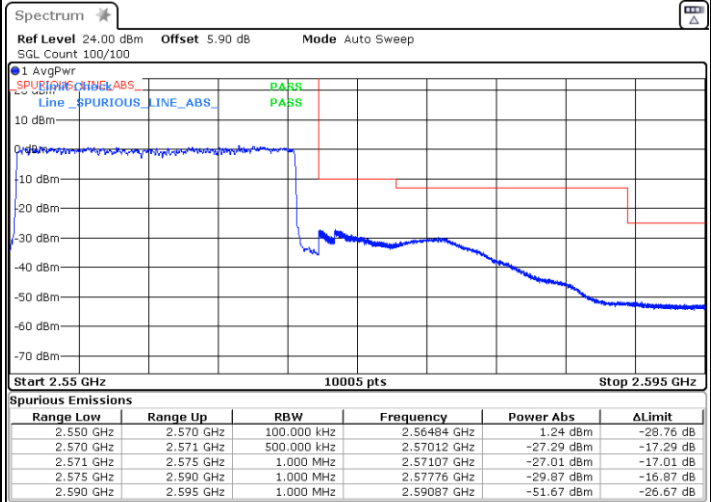
Date: 13.SEP.2020 00:24:14

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.SEP.2020 00:16:15



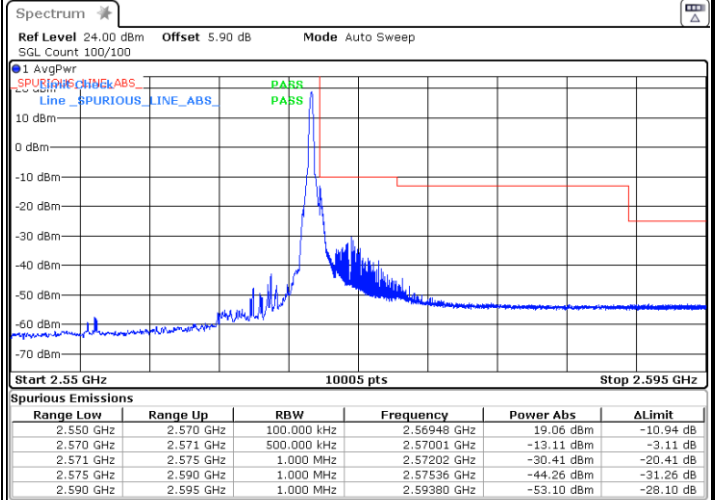
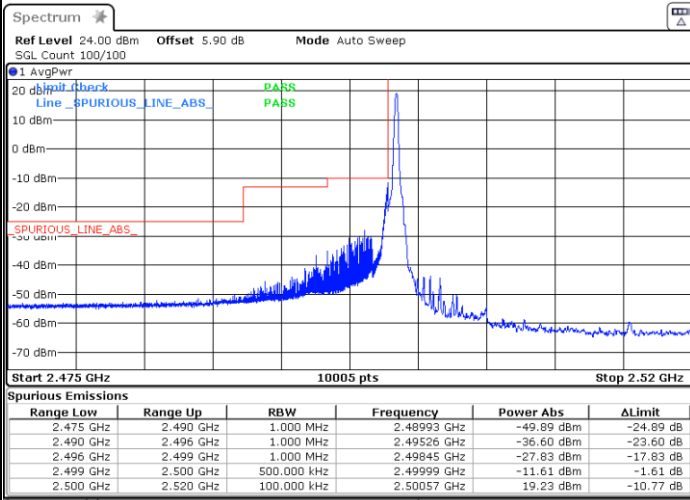
Date: 13.SEP.2020 00:22:07



FR1 n7 / 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

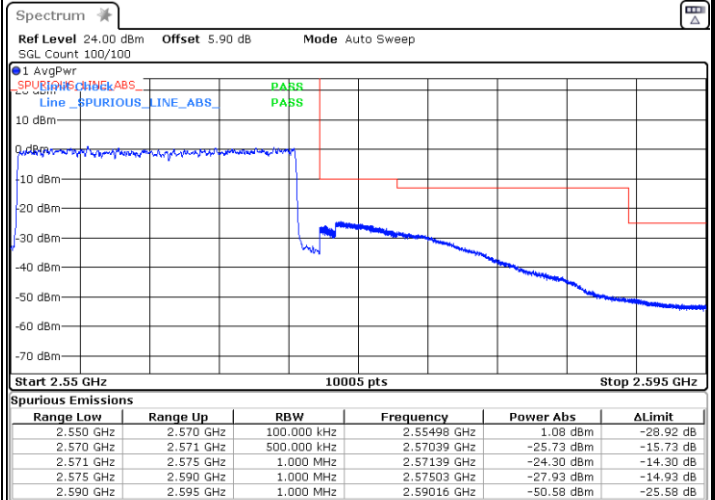
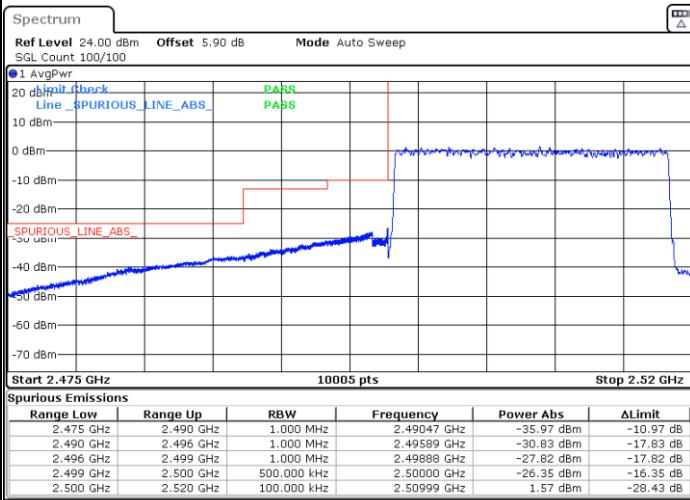


Date: 13.SEP.2020 00:19:12

Date: 13.SEP.2020 00:24:50

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.SEP.2020 00:16:28

Date: 13.SEP.2020 00:22:22

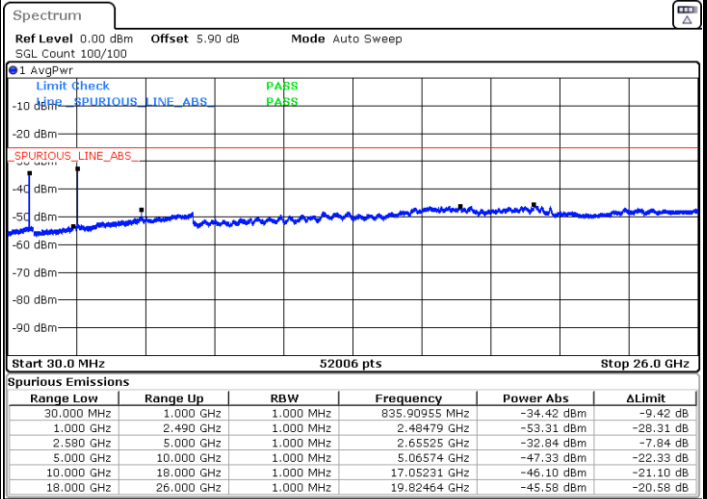
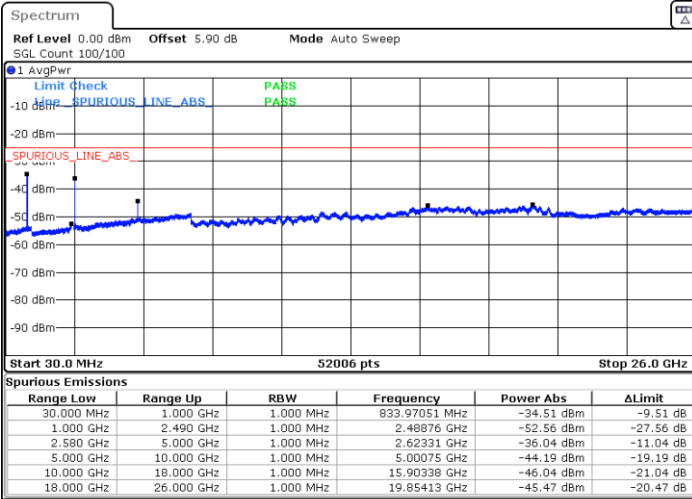


Conducted Spurious Emission

FR1 n7 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel / 1RB1

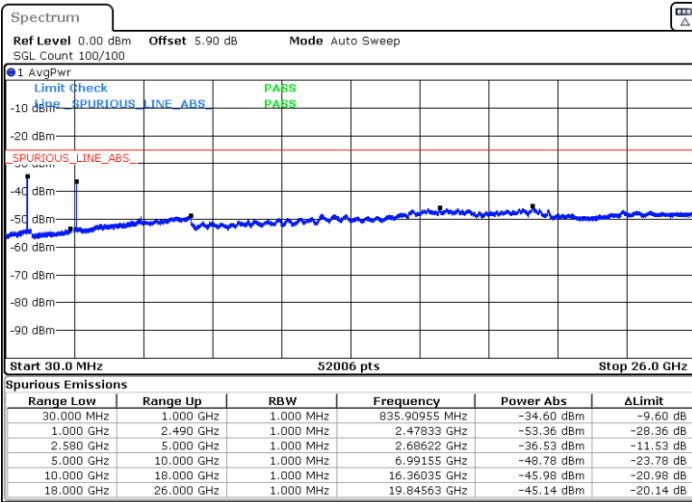
Middle Channel / 1RB1



Date: 13 SEP.2020 01:02:59

Date: 13 SEP.2020 01:08:55

Highest Channel / 1RB1



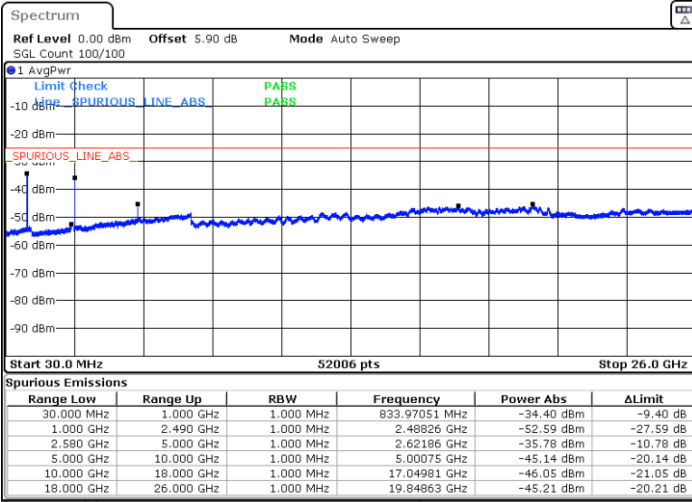
Date: 13 SEP.2020 01:13:43



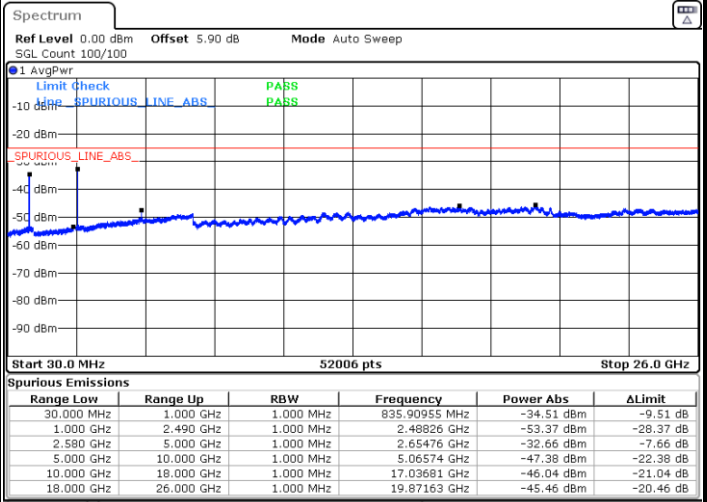
FR1 n7 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

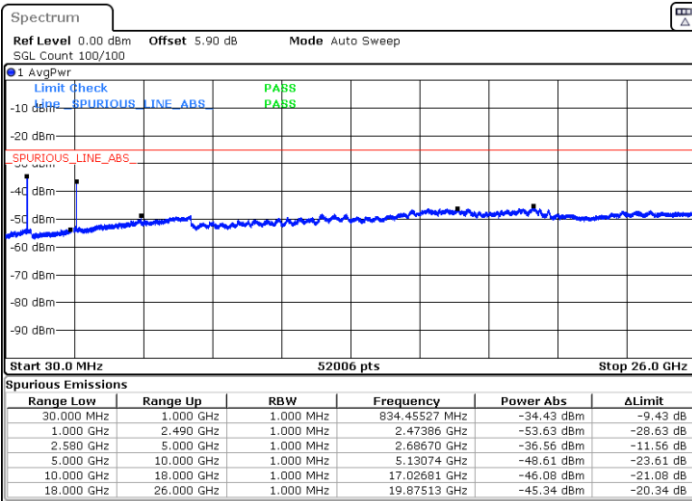


Date: 13 SEP.2020 01:04:08



Date: 13 SEP.2020 01:09:48

Highest Channel / 1RB1



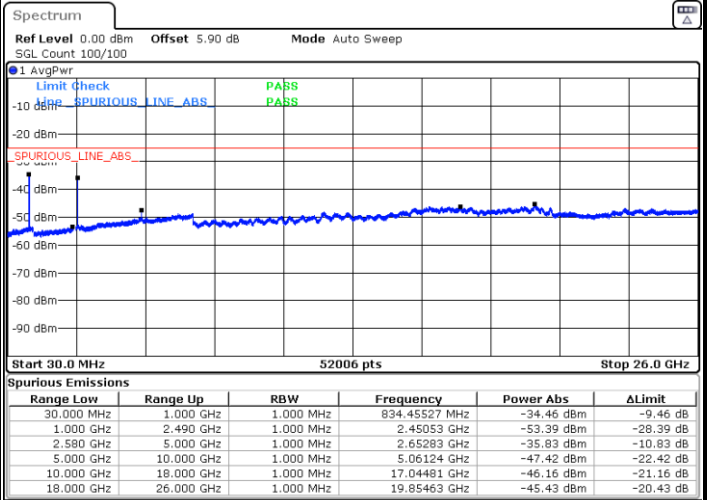
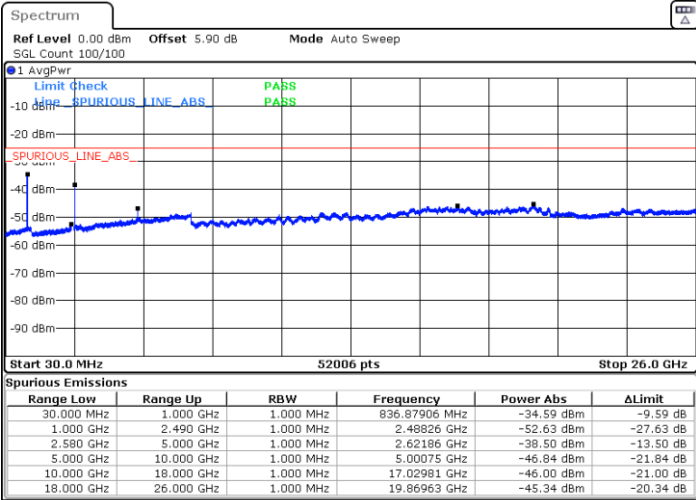
Date: 13 SEP.2020 01:14:34



FR1 n7 / 10MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel / 1RB1

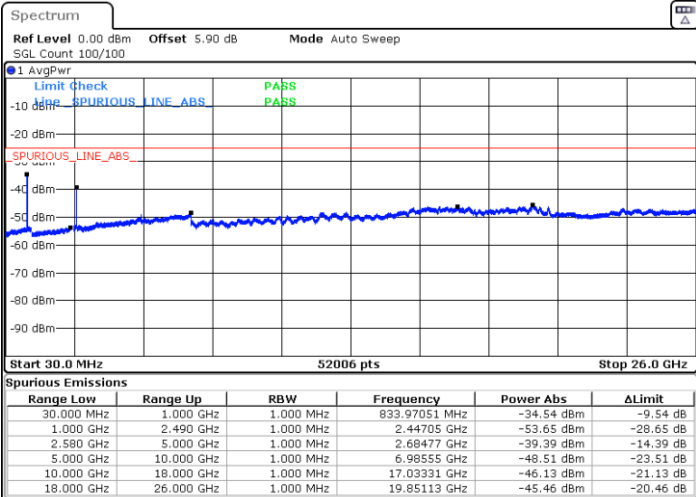
Middle Channel / 1RB1



Date: 13.SEP.2020 01:19:19

Date: 13.SEP.2020 01:23:55

Highest Channel / 1RB1



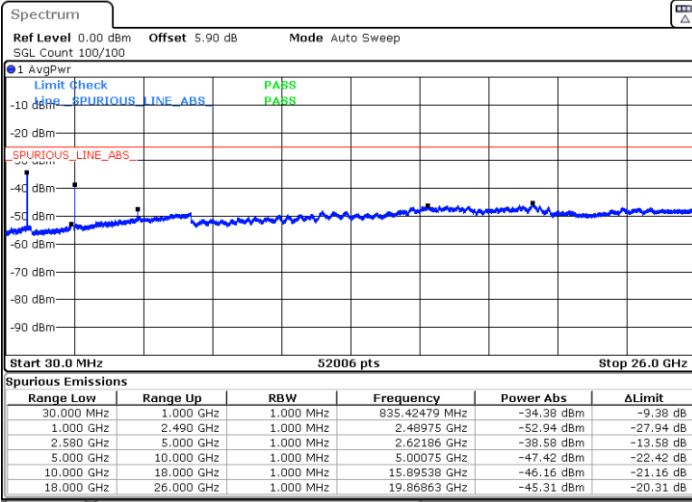
Date: 13.SEP.2020 01:28:53



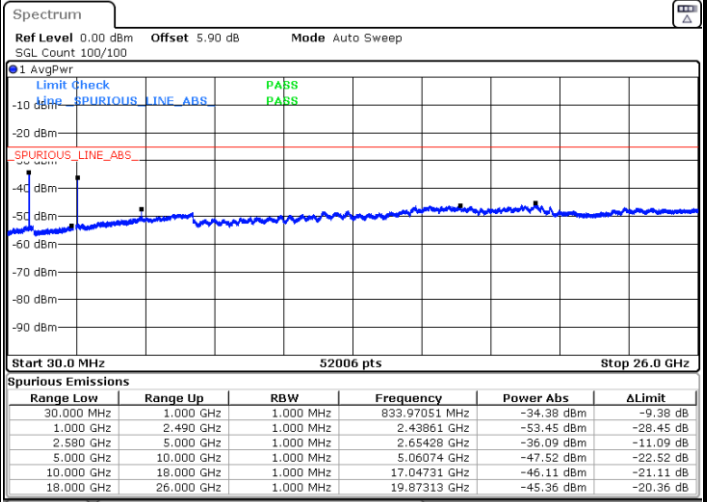
FR1 n7 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

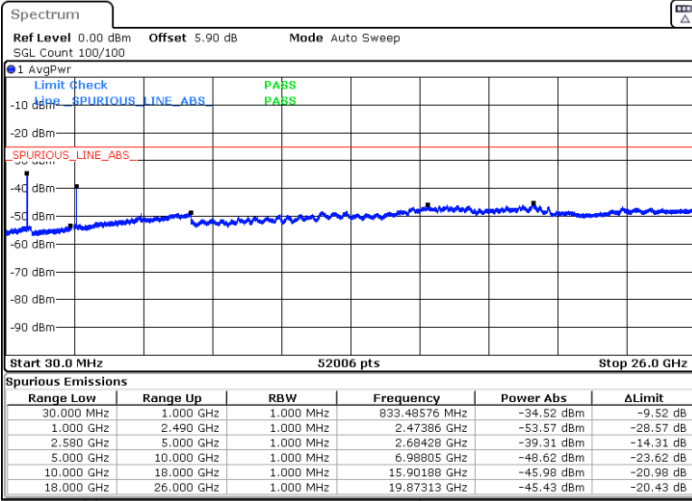


Date: 13 SEP 2020 01:20:09



Date: 13 SEP 2020 01:24:46

Highest Channel / 1RB1



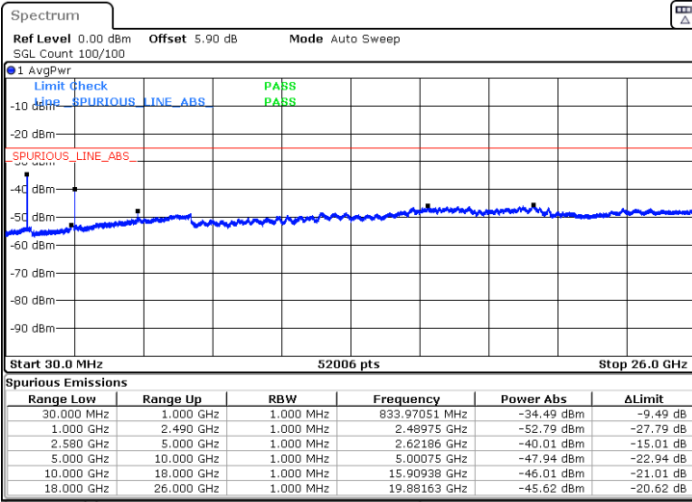
Date: 13 SEP 2020 01:29:45



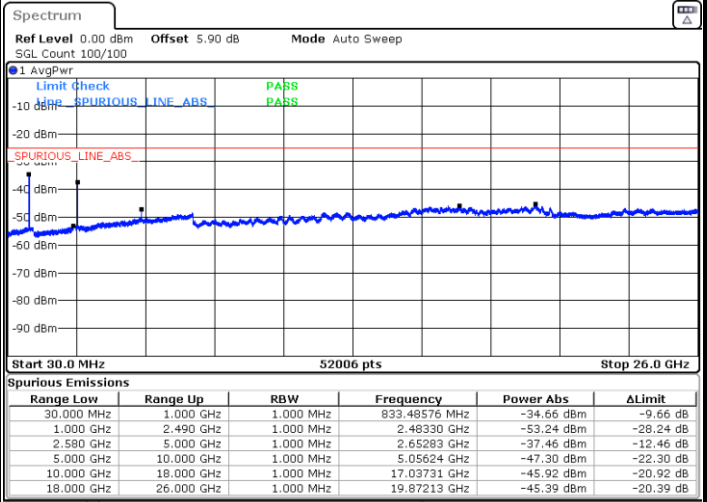
FR1 n7 / 15MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

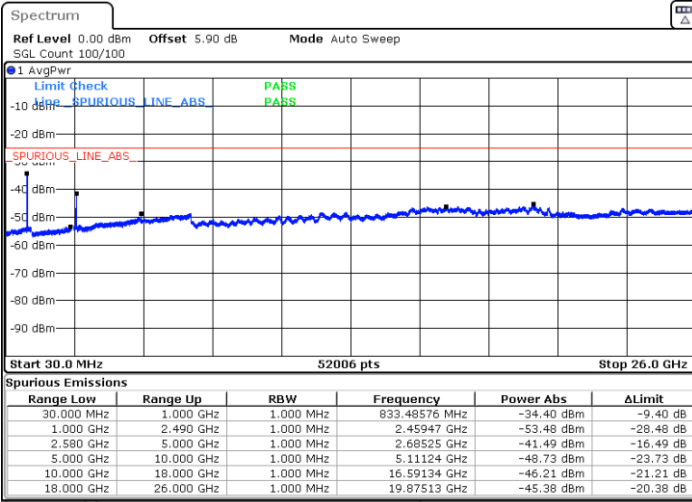


Date: 13 SEP 2020 01:46:28



Date: 13 SEP 2020 01:51:46

Highest Channel / 1RB1



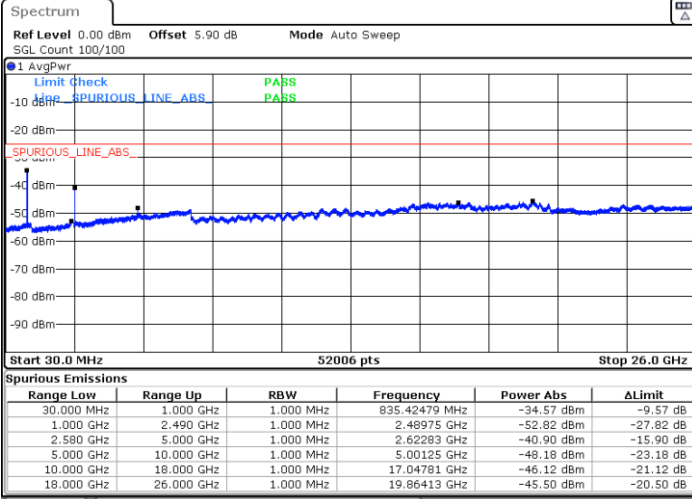
Date: 13 SEP 2020 01:57:36



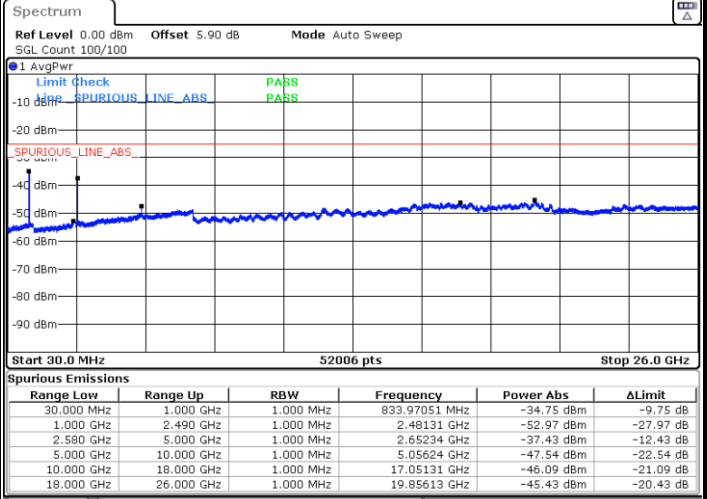
FR1 n7 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

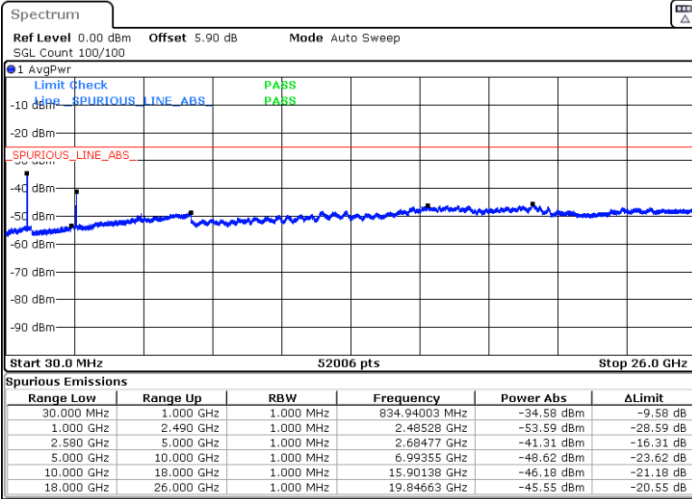


Date: 13 SEP 2020 01:47:28



Date: 13 SEP 2020 01:52:58

Highest Channel / 1RB1



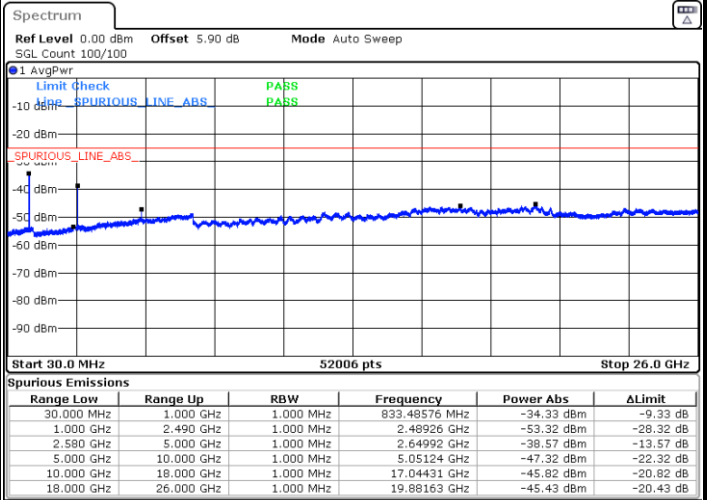
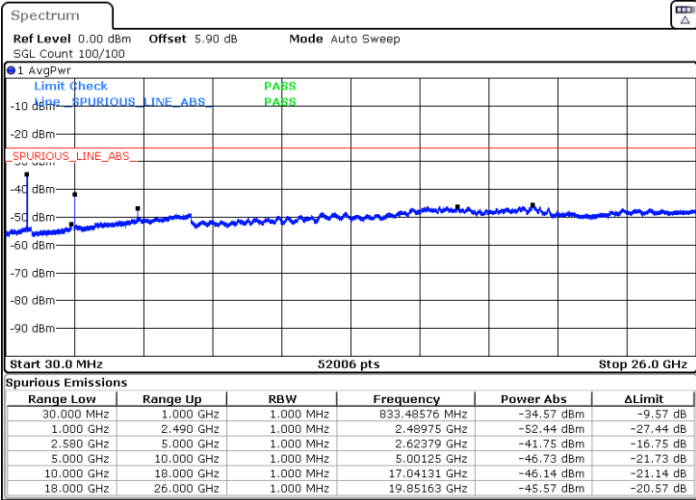
Date: 13 SEP 2020 01:58:37



FR1 n7 / 20MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel / 1RB1

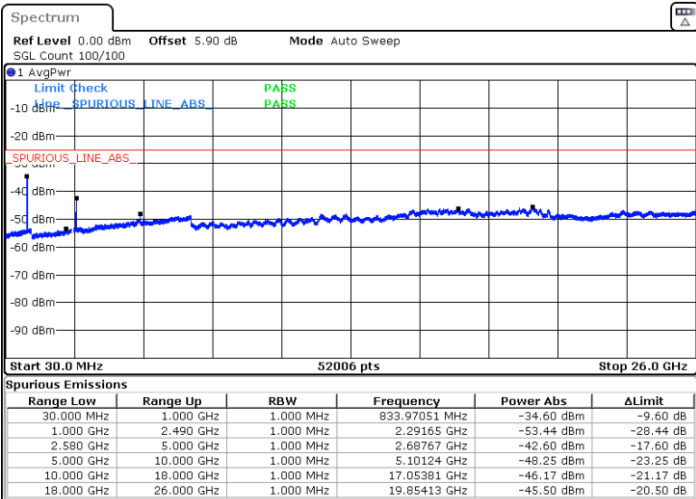
Middle Channel / 1RB1



Date: 13.SEP.2020 02:03:51

Date: 13.SEP.2020 02:09:54

Highest Channel / 1RB1



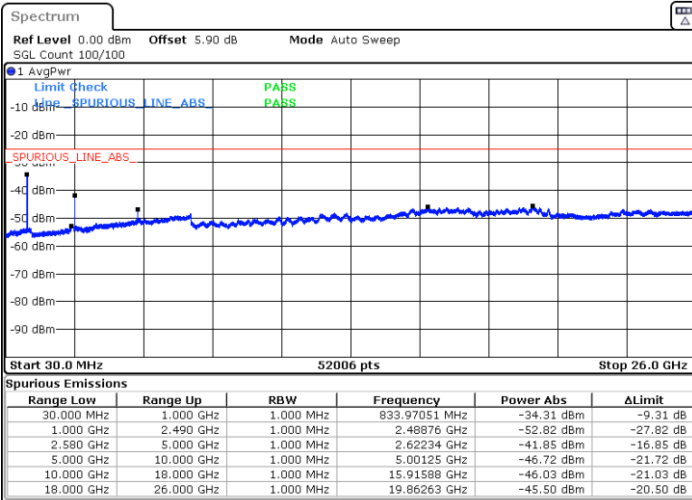
Date: 13.SEP.2020 02:17:26



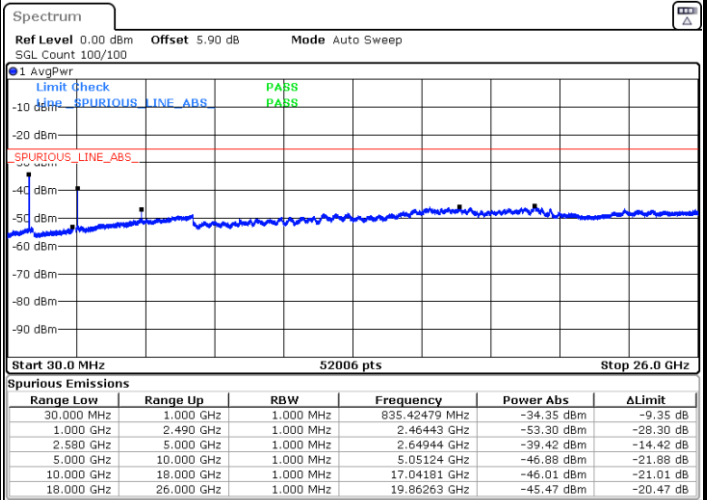
FR1 n7 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

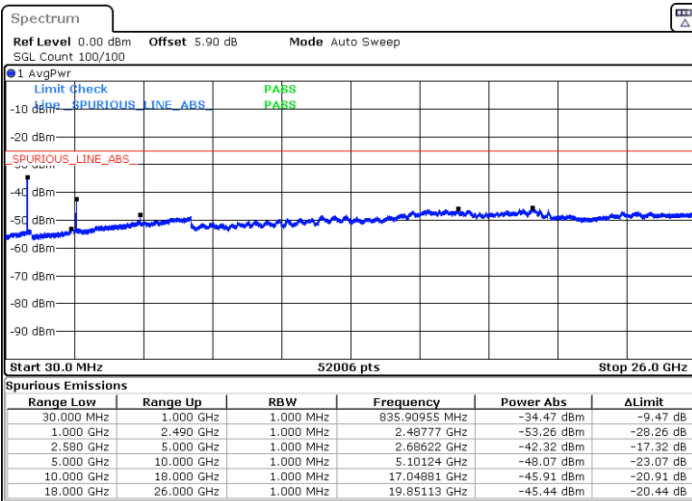


Date: 13 SEP.2020 02:04:44



Date: 13 SEP.2020 02:10:55

Highest Channel / 1RB1



Date: 13 SEP.2020 02:18:21



Frequency Stability

Test Conditions		FR1 n7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0017	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0014	
20	Battery End Point	0.0003	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



FR1 n66

Peak-to-Average Ratio

Mode	FR1 n66 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	Limit: 13dB
RB Size	Full RB	Full RB	1 RB0	1 RB0	Result
Lowest CH	3.83	5.19	4.00	5.10	PASS
Middle CH	3.94	5.10	4.58	5.36	
Highest CH	3.68	5.10	4.17	5.65	



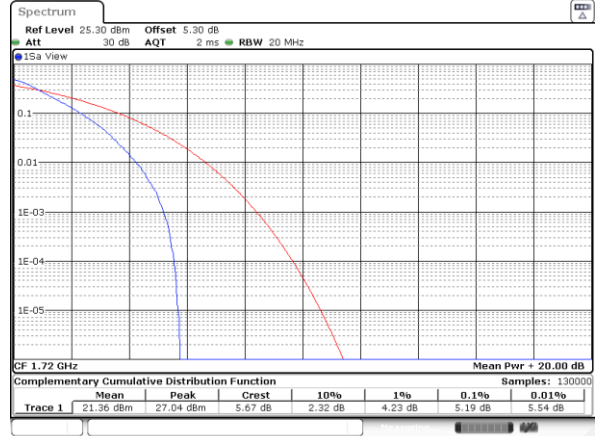
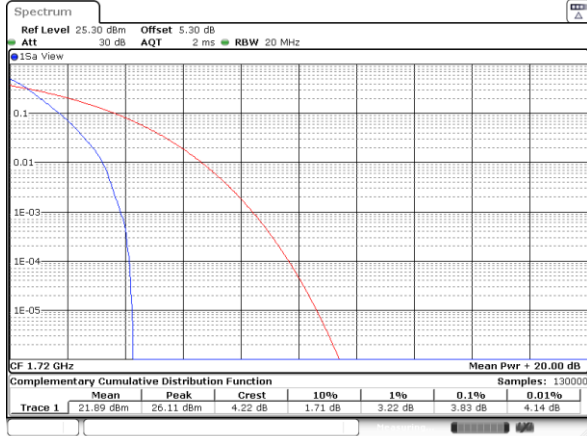
FR1 n66 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / Full RB

Lowest Channel / Full RB

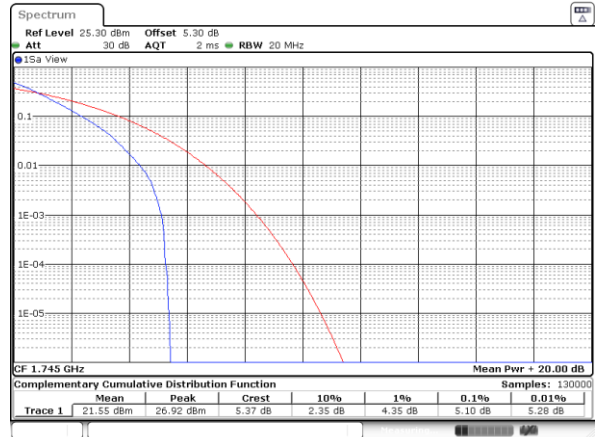
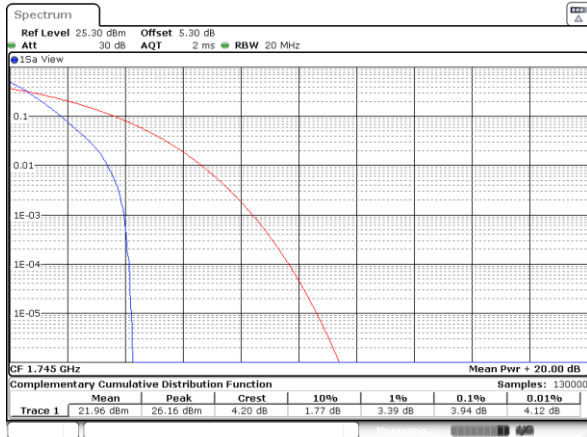


Date: 13 SEP 2020 03:04:38

Date: 13 SEP 2020 03:04:59

Middle Channel / Full RB

Middle Channel / Full RB

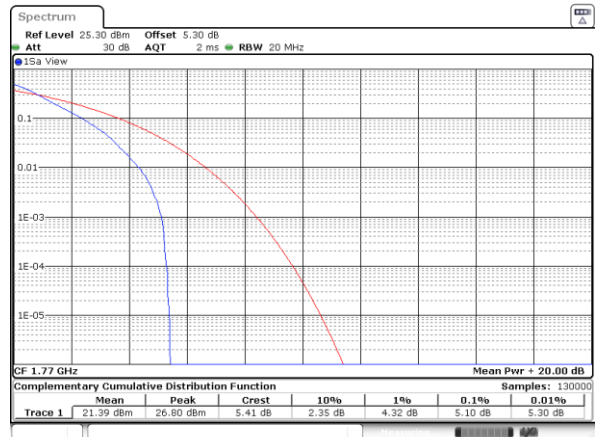
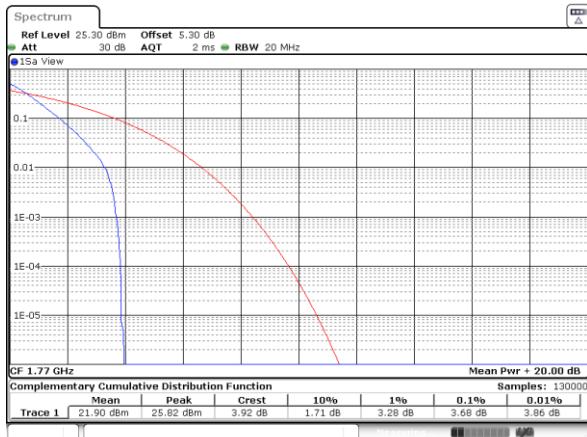


Date: 13 SEP 2020 03:07:34

Date: 13 SEP 2020 03:07:57

Highest Channel / Full RB

Highest Channel / Full RB



Date: 13 SEP 2020 03:10:33

Date: 13 SEP 2020 03:10:52



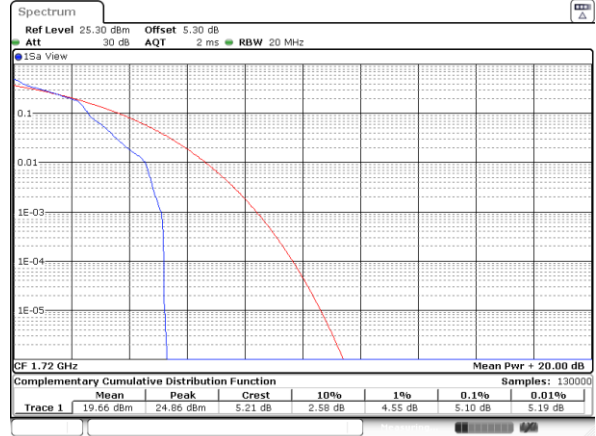
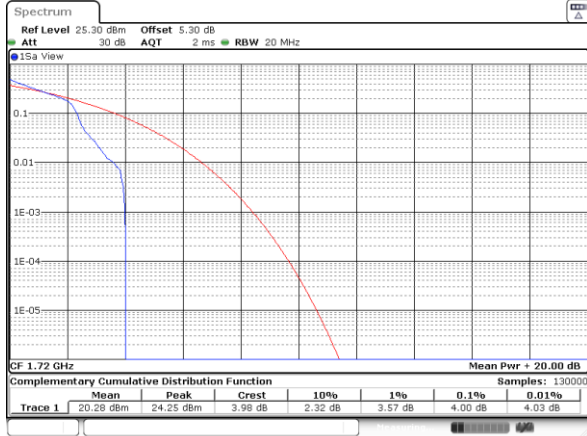
FR1 n66 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RB0

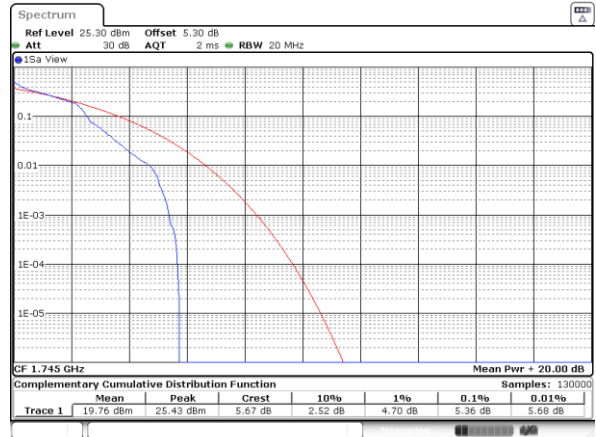
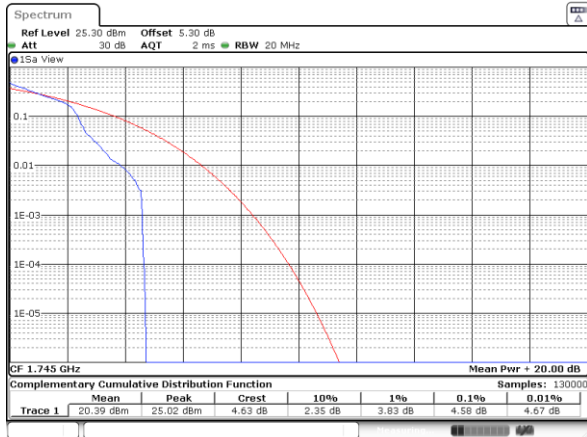


Date: 13 SEP 2020 03:06:41

Date: 13 SEP 2020 03:06:50

Middle Channel / 1RB0

Middle Channel / 1RB0

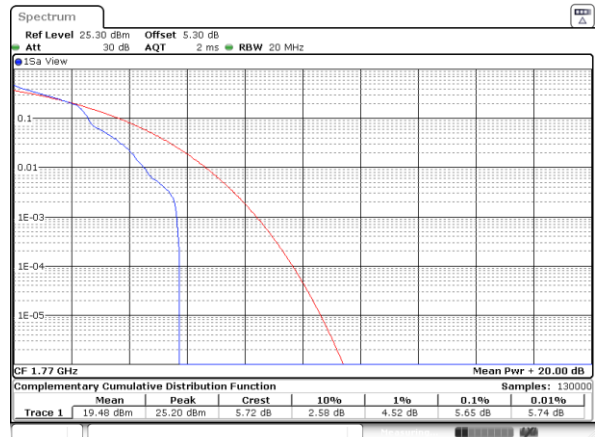
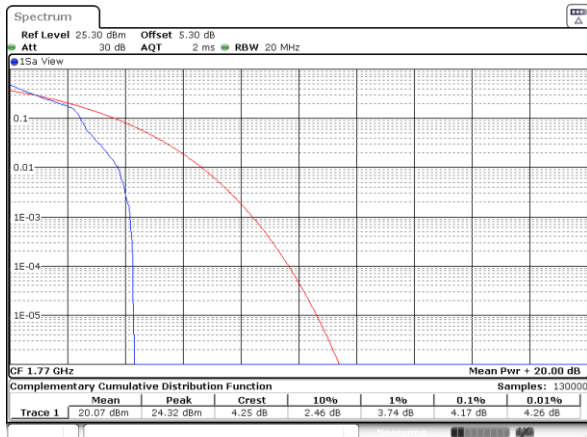


Date: 13 SEP 2020 03:09:32

Date: 13 SEP 2020 03:09:43

Highest Channel / 1RB0

Highest Channel / 1RB0



Date: 13 SEP 2020 03:12:35

Date: 13 SEP 2020 03:12:43



26dB Bandwidth

Mode	FR1 n66 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Lowest CH	4.985	4.935	9.79	9.81	14.266	14.356	20.18	20.18
Middle CH	4.985	4.855	9.71	9.75	14.116	14.266	20.14	20.22
Highest CH	4.935	4.885	9.75	9.69	14.206	14.296	20.06	20.22



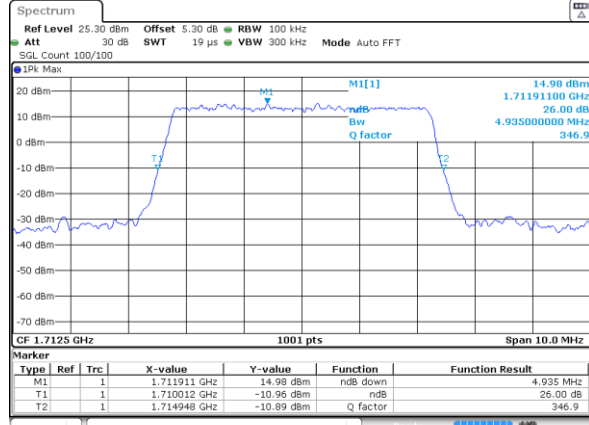
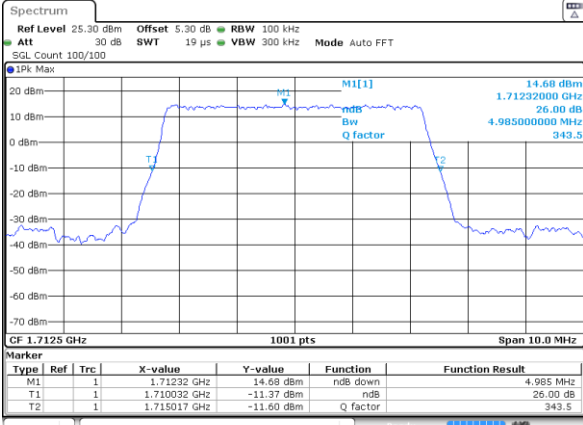
FR1 n66 / 5MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel

Lowest Channel

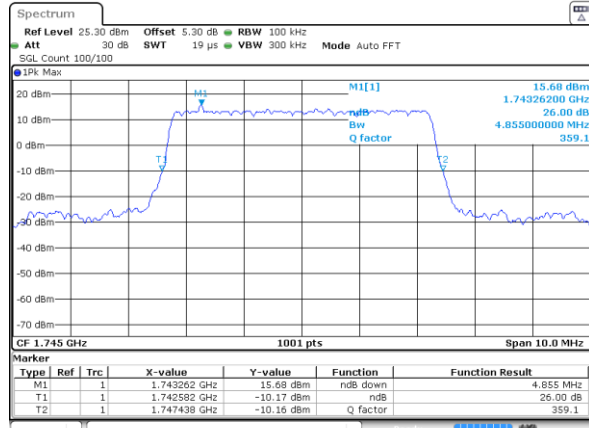
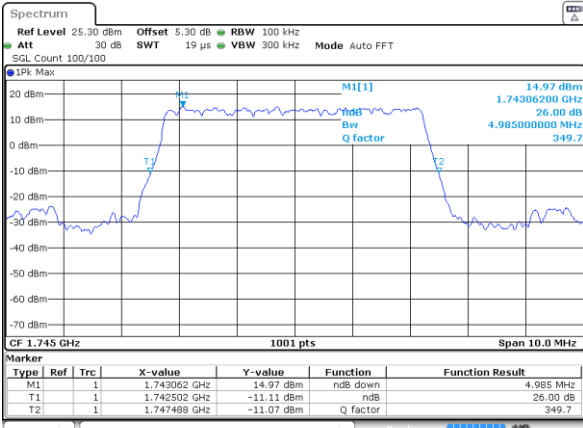


Date: 13 SEP 2020 02:49:55

Date: 13 SEP 2020 02:50:09

Middle Channel

Middle Channel

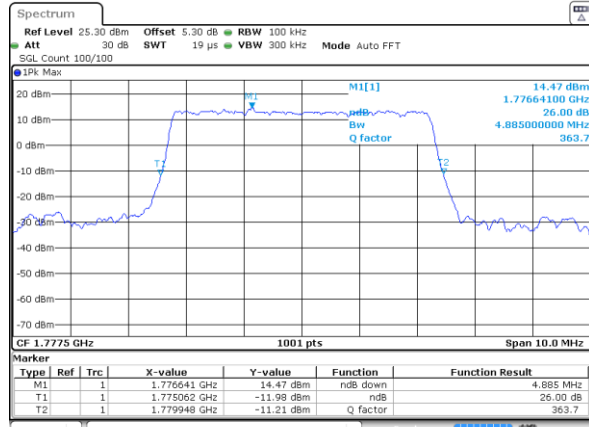
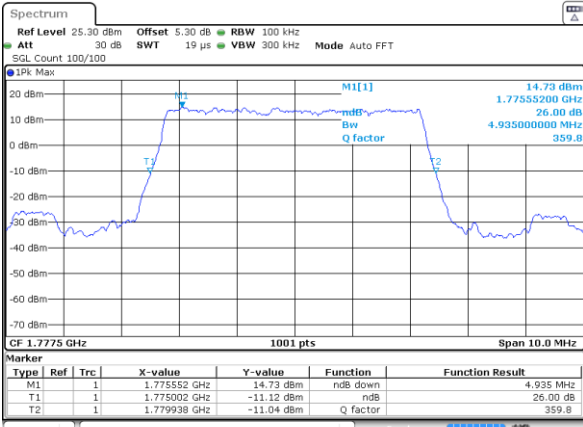


Date: 13 SEP 2020 02:52:41

Date: 13 SEP 2020 02:52:56

Highest Channel

Highest Channel



Date: 13 SEP 2020 02:54:08

Date: 13 SEP 2020 02:54:22



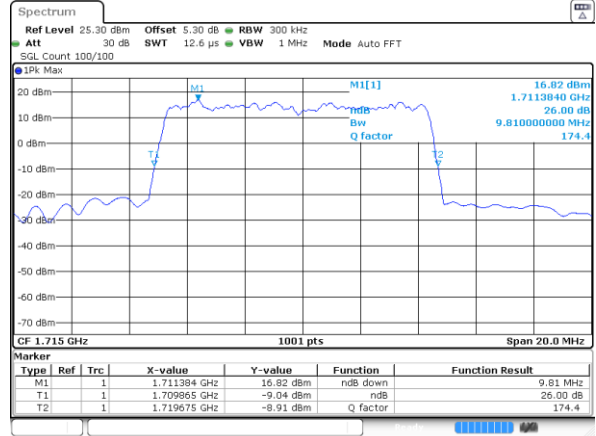
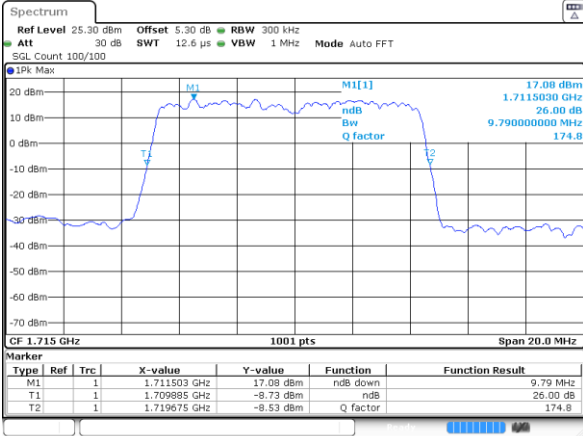
FR1 n66 / 10MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel

Lowest Channel

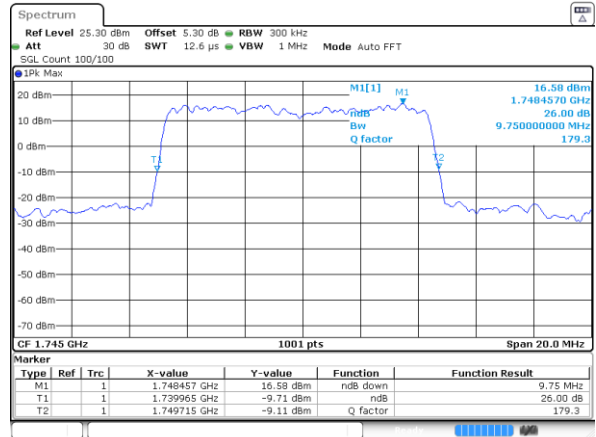
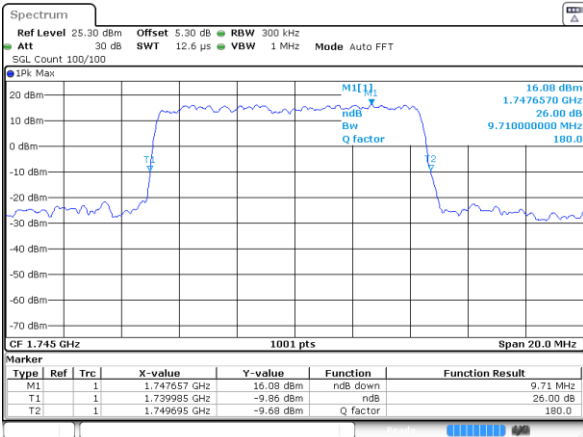


Date: 13 SEP 2020 02:55:45

Date: 13 SEP 2020 02:55:59

Middle Channel

Middle Channel

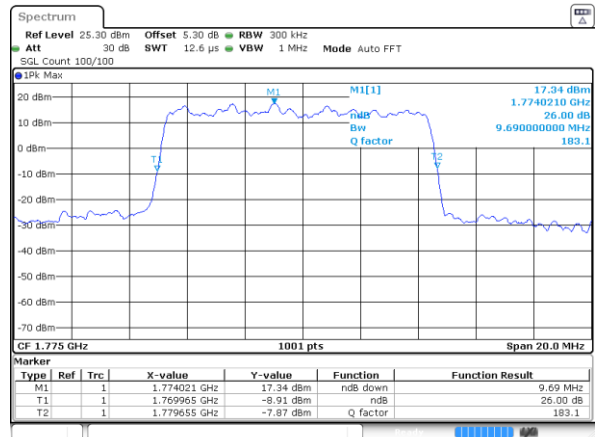
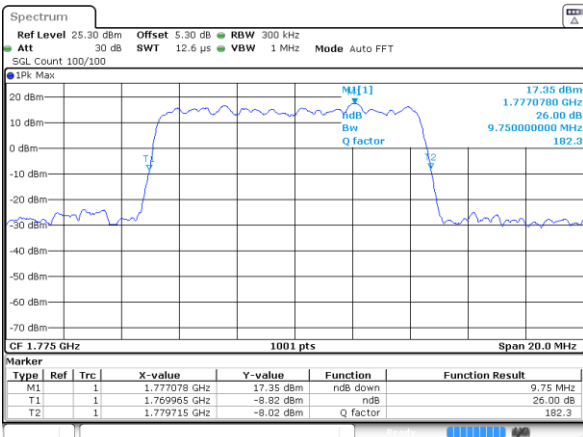


Date: 13 SEP 2020 02:57:15

Date: 13 SEP 2020 02:57:29

Highest Channel

Highest Channel



Date: 13 SEP 2020 02:58:43

Date: 13 SEP 2020 02:58:56



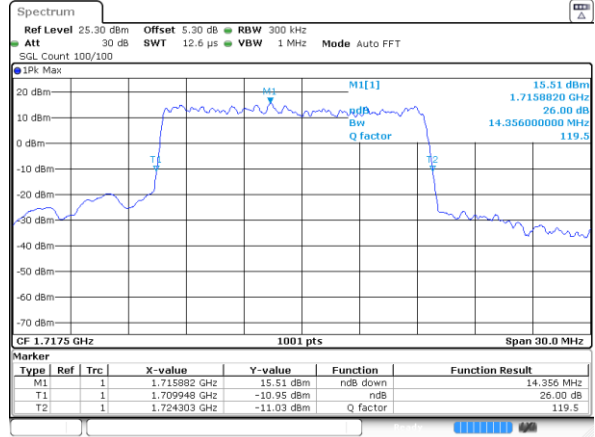
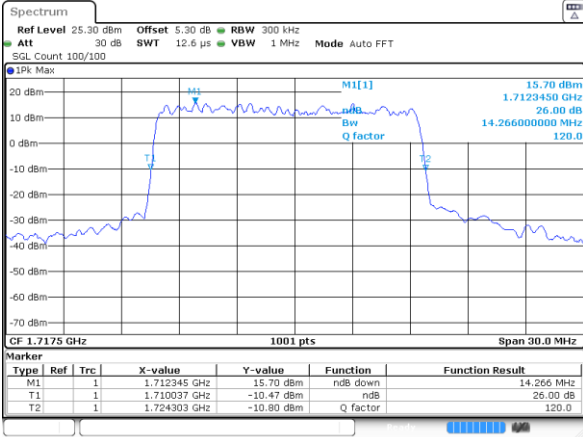
FR1 n66 / 15MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel

Lowest Channel

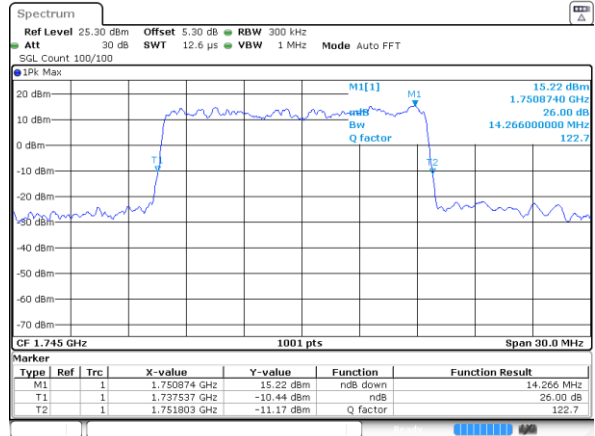
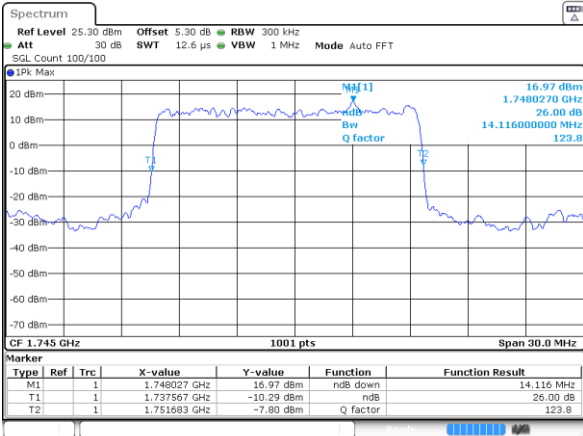


Date: 13 SEP 2020 03:00:18

Date: 13 SEP 2020 03:00:34

Middle Channel

Middle Channel

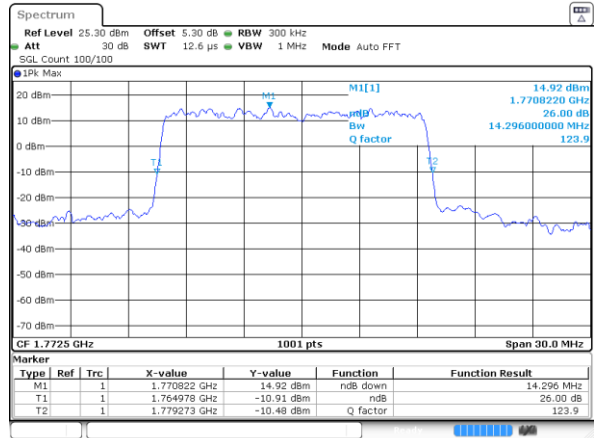
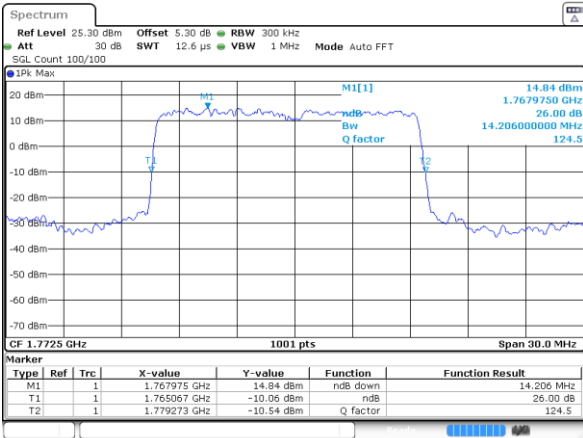


Date: 13 SEP 2020 03:01:43

Date: 13 SEP 2020 03:01:56

Highest Channel

Highest Channel



Date: 13 SEP 2020 03:03:05

Date: 13 SEP 2020 03:03:19



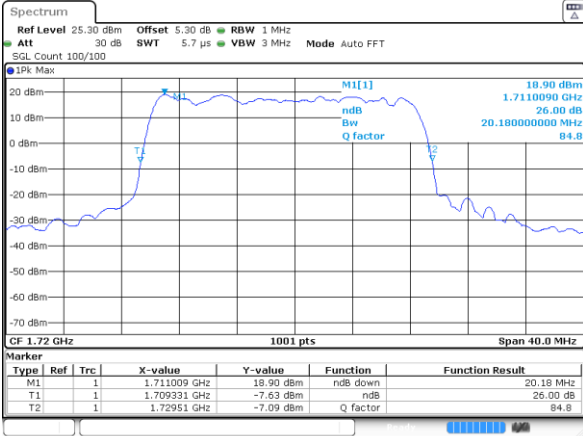
FR1 n66 / 20MHz / DFT-S OFDM

PI/2 BPSK

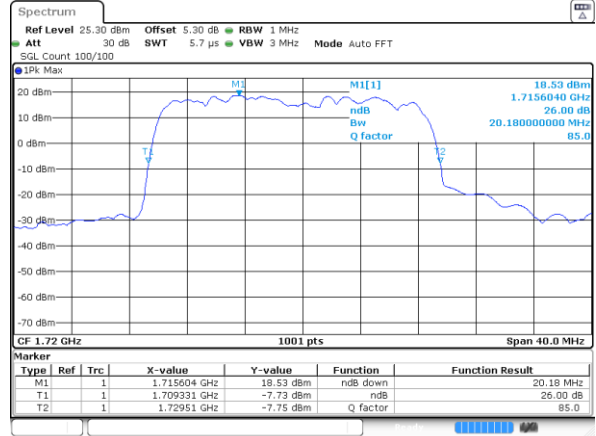
QPSK

Lowest Channel

Lowest Channel



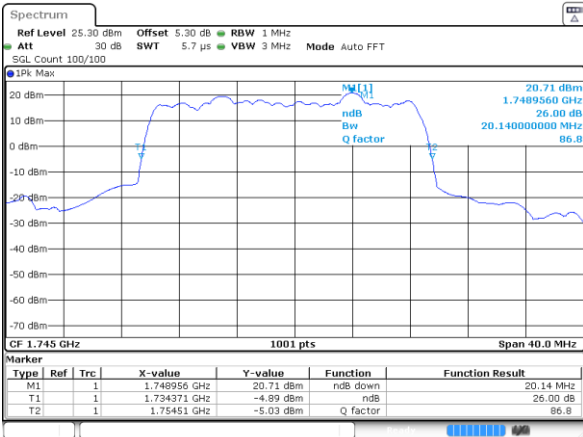
Date: 13 SEP 2020 03:04:50



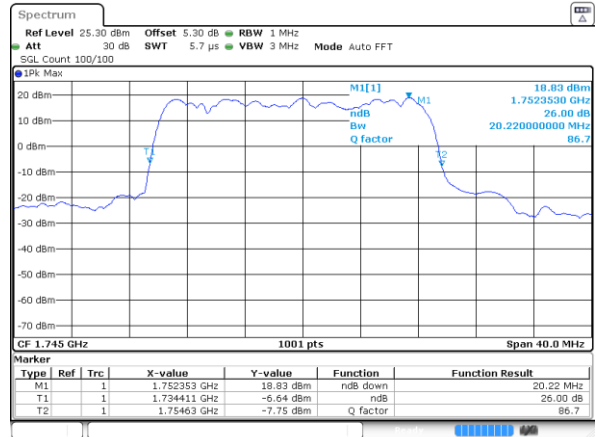
Date: 13 SEP 2020 03:05:11

Middle Channel

Middle Channel



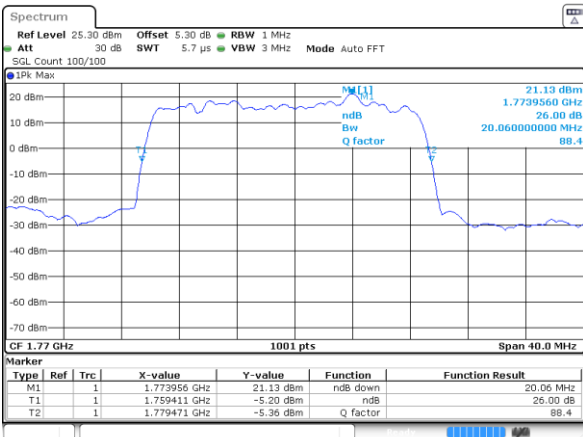
Date: 13 SEP 2020 03:07:46



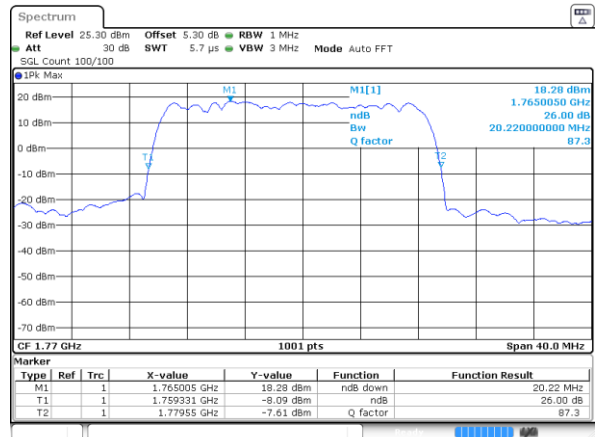
Date: 13 SEP 2020 03:08:08

Highest Channel

Highest Channel



Date: 13 SEP 2020 03:10:44



Date: 13 SEP 2020 03:11:04



Occupied Bandwidth

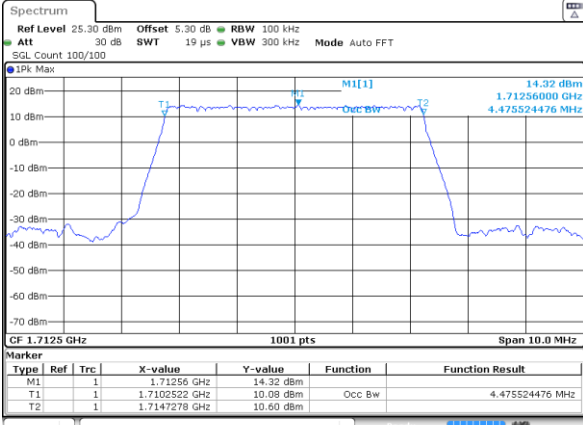
Mode	FR1 n66 : 99%OBW (MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Lowest CH	4.476		9.051		13.457		18.462	
Middle CH	4.466		9.051		13.457		18.501	
Highest CH	4.476		9.051		13.457		18.462	
Mode	FR1 n66 : 99%OBW (MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.496	4.466	9.051	9.031	13.487	13.457	18.382	18.262
Middle CH	4.486	4.476	9.071	9.091	13.546	13.516	18.382	18.422
Highest CH	4.486	4.486	9.071	9.071	13.516	13.427	18.382	18.382
Mode	FR1 n66 : 99%OBW (MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	4.496	4.486	9.031	9.051	13.457	13.457	18.262	18.342
Middle CH	4.486	4.496	9.051	9.051	13.487	13.487	18.462	18.462
Highest CH	4.486	4.486	9.071	8.991	13.427	13.457	18.302	18.262



FR1 n66 / 5MHz / DFT-S OFDM

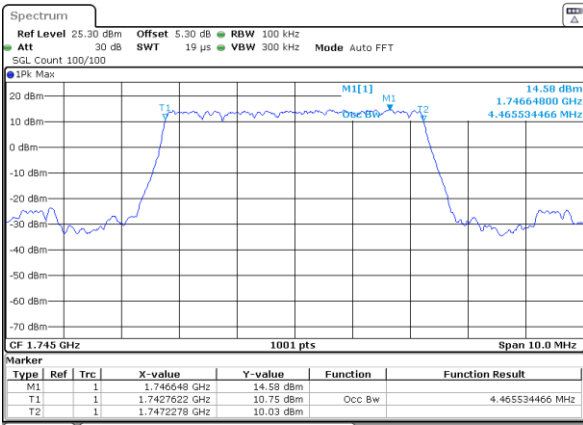
PI/2 BPSK

Lowest Channel



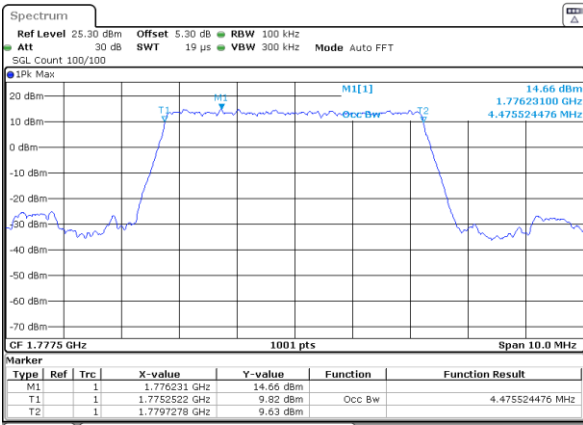
Date: 13.SEP.2020 02:49:46

Middle Channel



Date: 13.SEP.2020 02:52:36

Highest Channel



Date: 13.SEP.2020 02:54:03