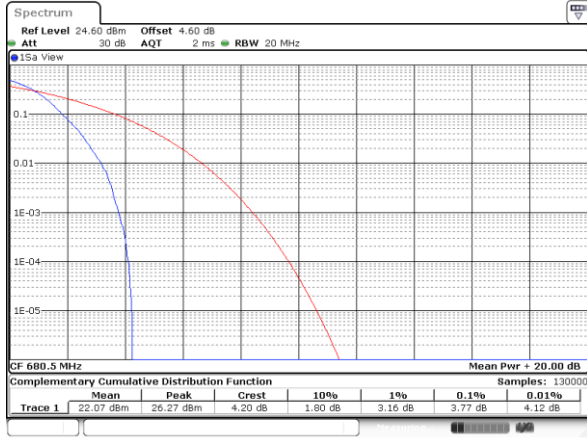




FR1 n71 / 20MHz / DFT-S OFDM

Middle Channel / Full RB

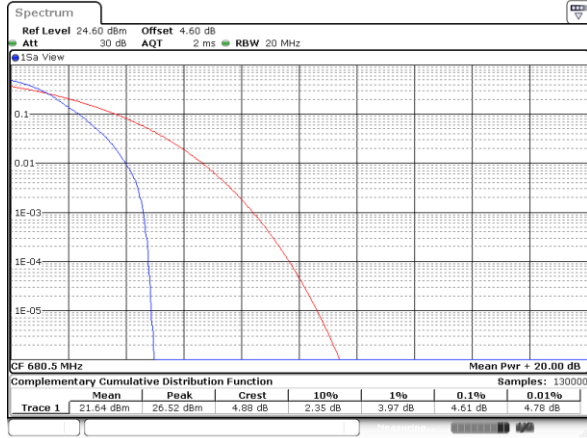
PI/2 BPSK



Date: 3,MAR,2022 17:10:13

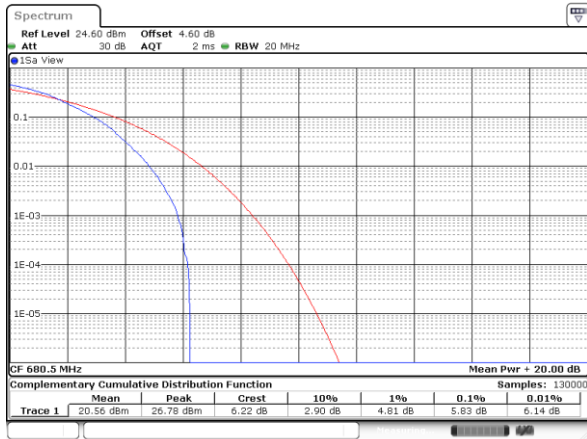
Middle Channel / Full RB

QPSK



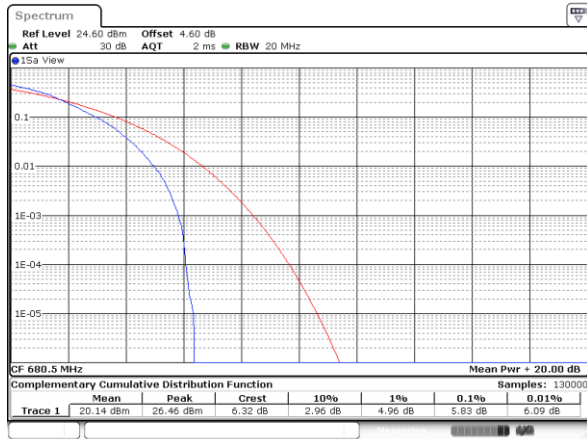
Date: 3,MAR,2022 17:10:45

16QAM



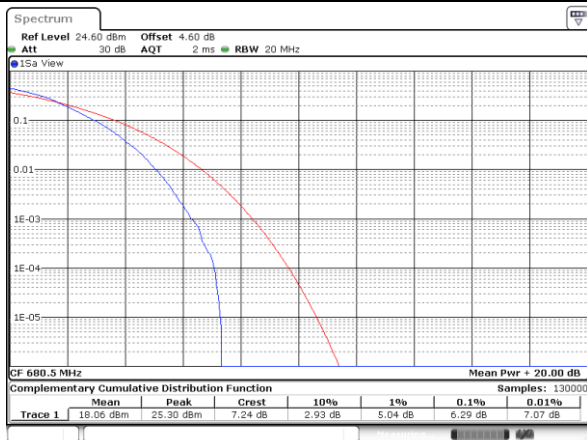
Date: 3,MAR,2022 17:11:15

64QAM



Date: 3,MAR,2022 17:11:36

256QAM

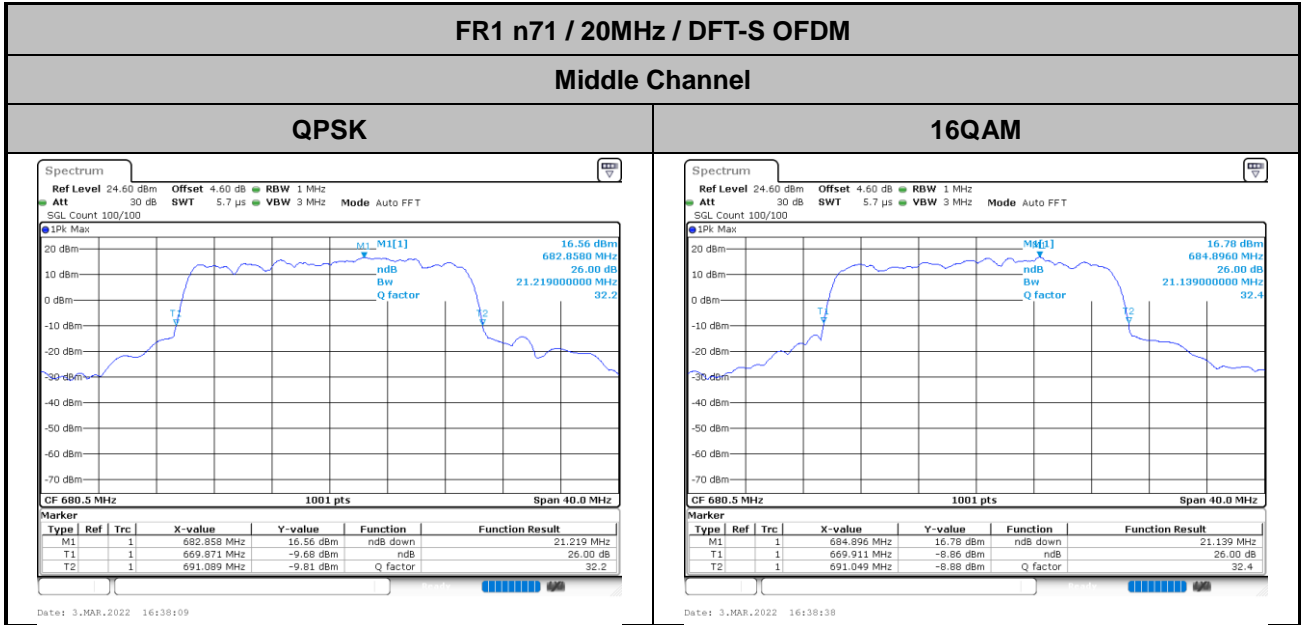


Date: 3,MAR,2022 17:11:55



26dB Bandwidth

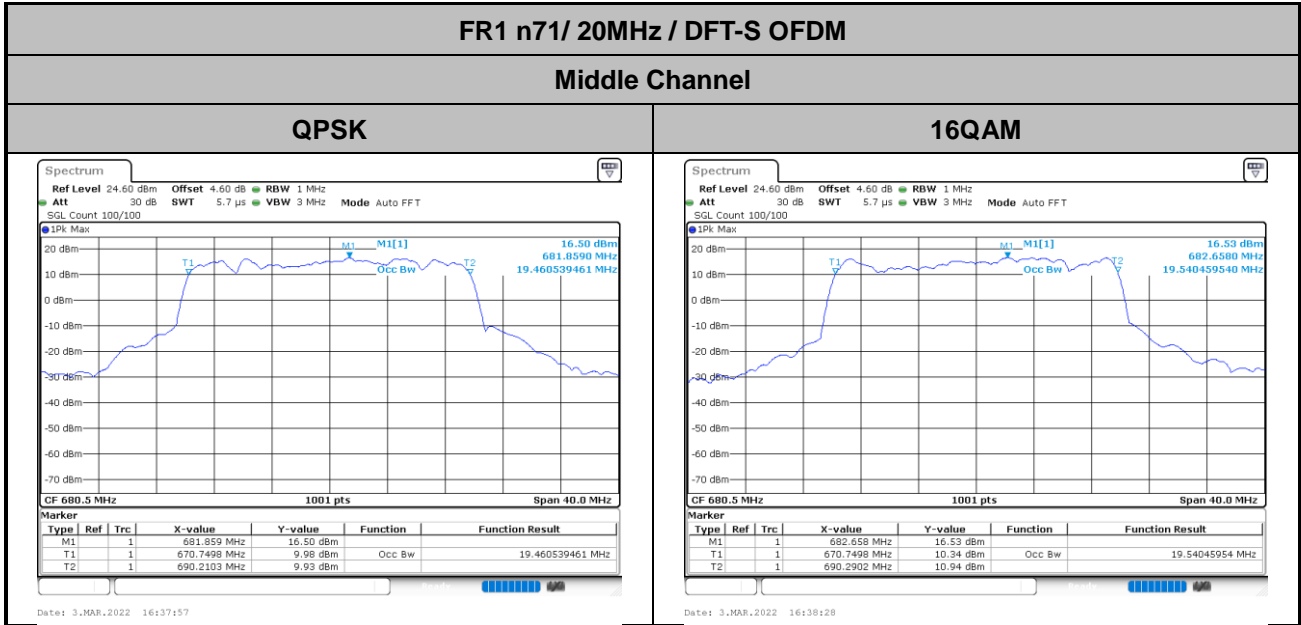
Mode	FR1 n71: 26dB BW(MHz) / DFT-S OFDM	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	21.22	21.14





Occupied Bandwidth

Mode	FR1 n71 : 99%OBW(MHz) / DFT-S OFDM	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.46	19.54



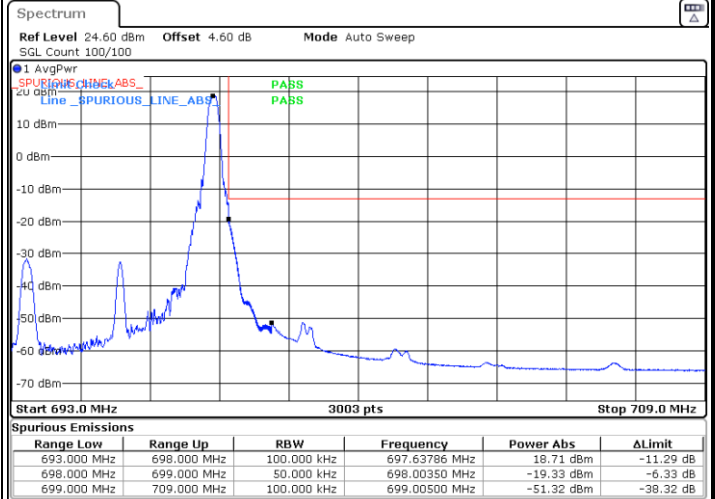
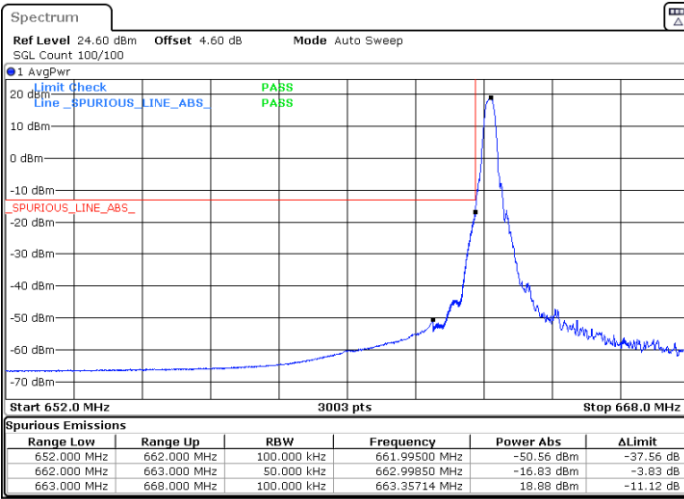


Conducted Band Edge

FR1 n71 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

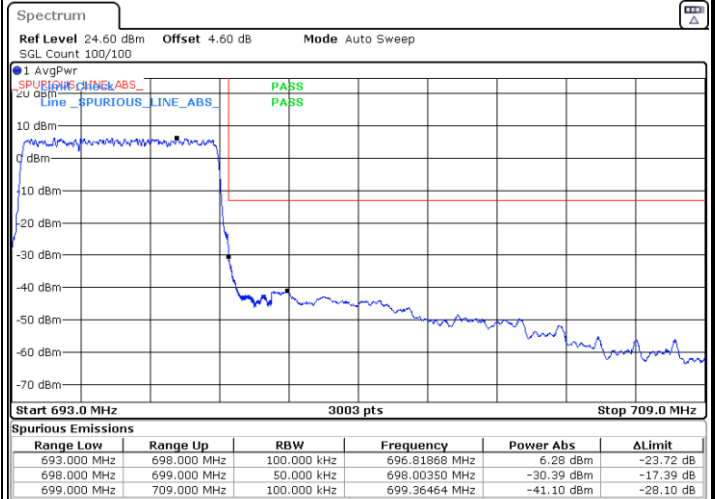
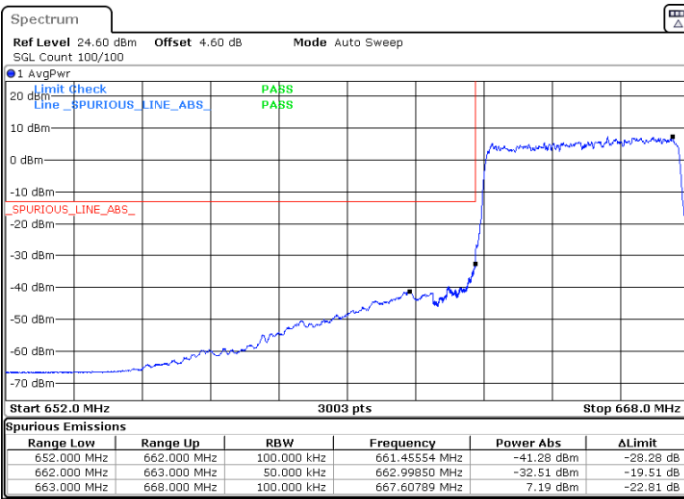


Date: 3.MAR.2022 18:46:56

Date: 3.MAR.2022 18:53:30

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.MAR.2022 18:45:48

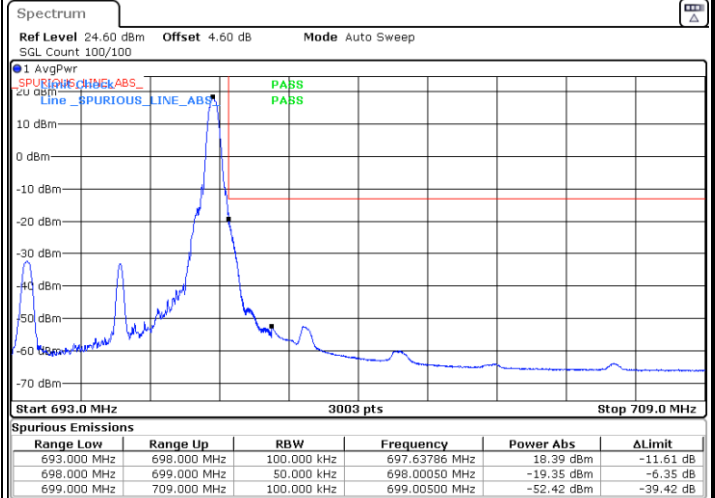
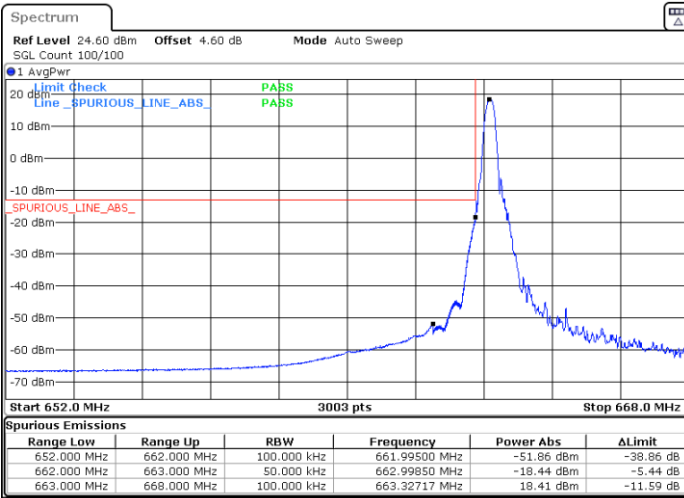
Date: 3.MAR.2022 18:54:37



FR1 n71 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

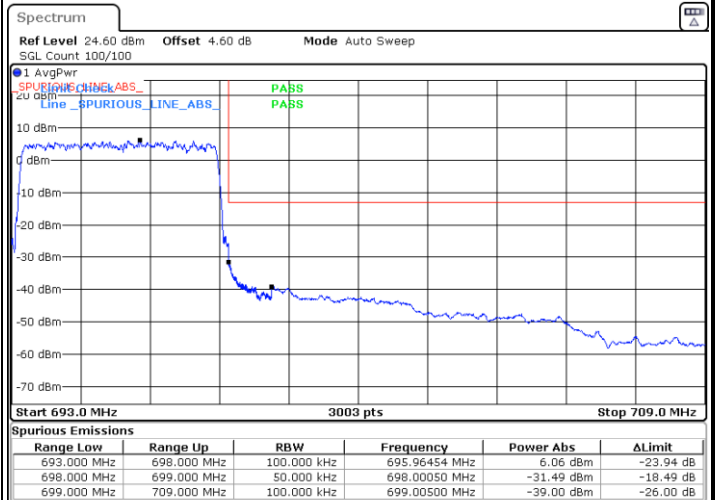
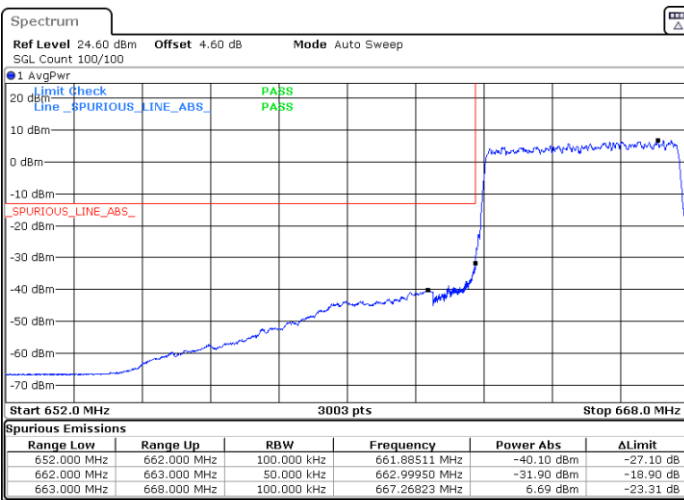


Date: 3.MAR.2022 18:48:27

Date: 3.MAR.2022 19:04:43

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.MAR.2022 18:43:59

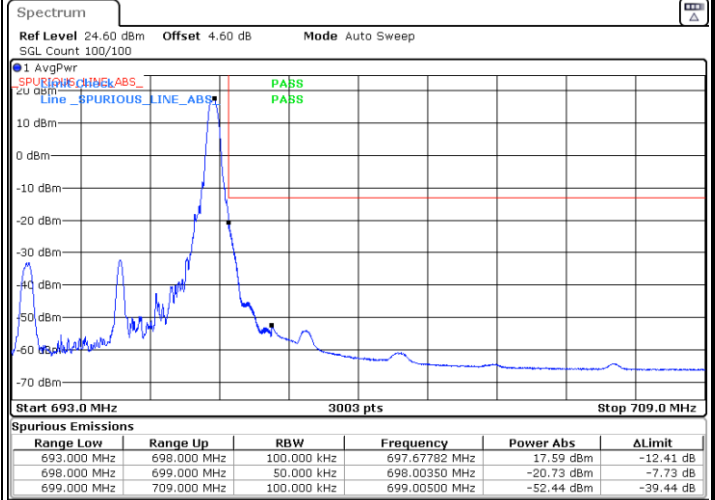
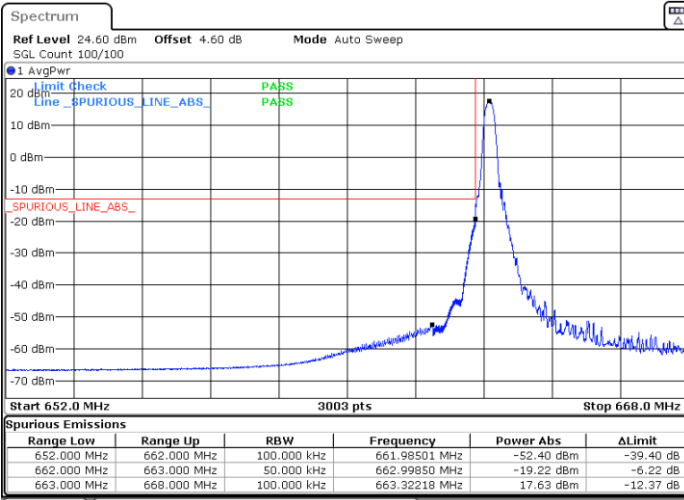
Date: 3.MAR.2022 18:55:51



FR1 n71 / 5MHz / DFT-S OFDM / 16Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

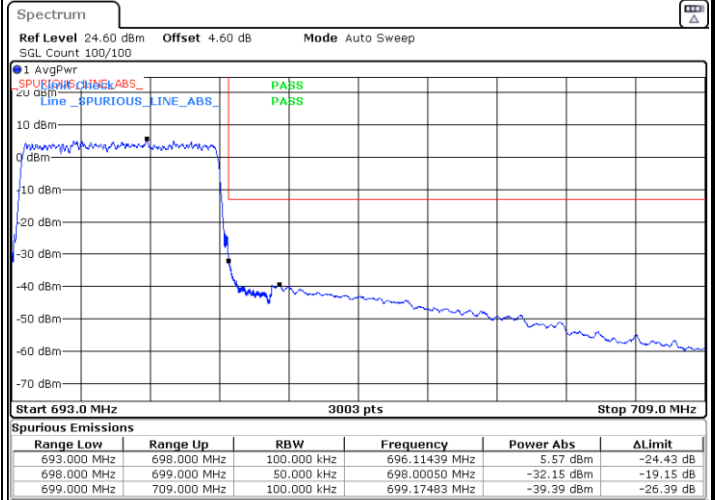
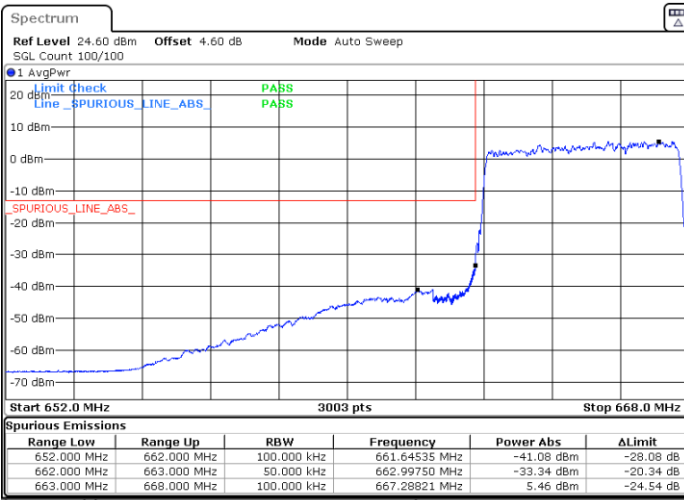


Date: 3.MAR.2022 18:41:03

Date: 3.MAR.2022 19:03:34

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.MAR.2022 18:42:38

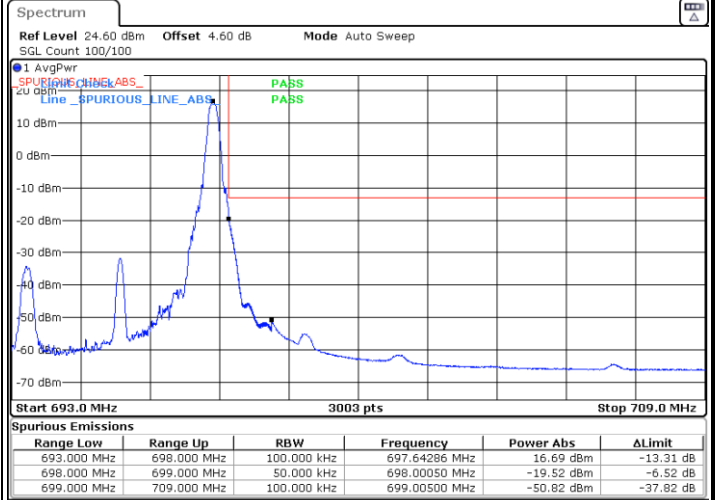
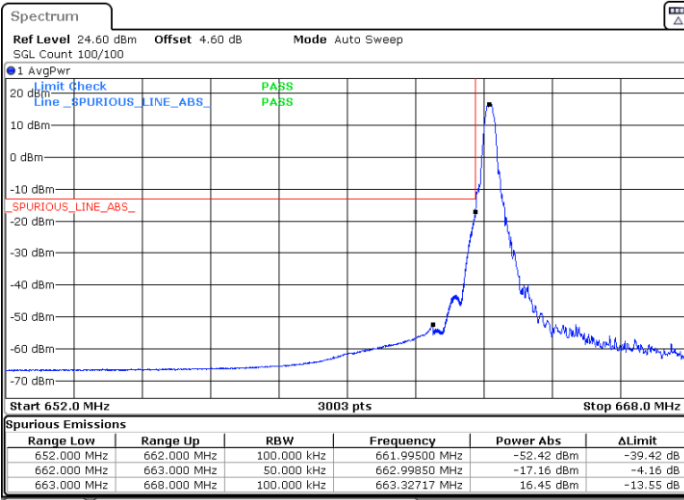
Date: 3.MAR.2022 18:56:57



FR1 n71/ 5MHz / DFT-S OFDM / 64Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

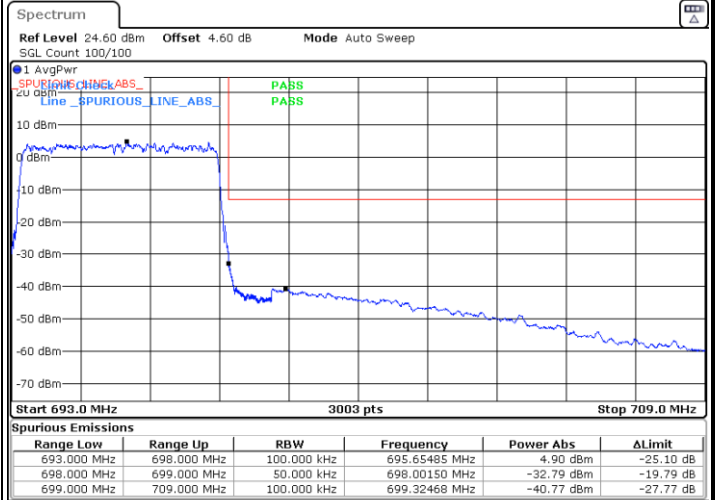
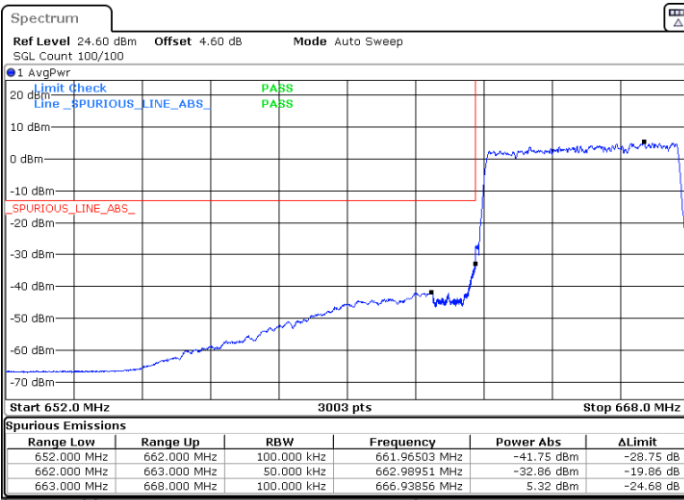


Date: 3.MAR.2022 18:39:46

Date: 3.MAR.2022 19:02:15

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.MAR.2022 18:35:26

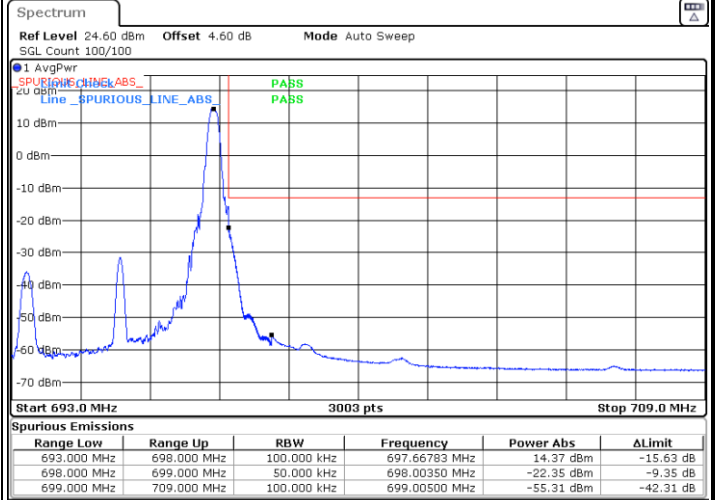
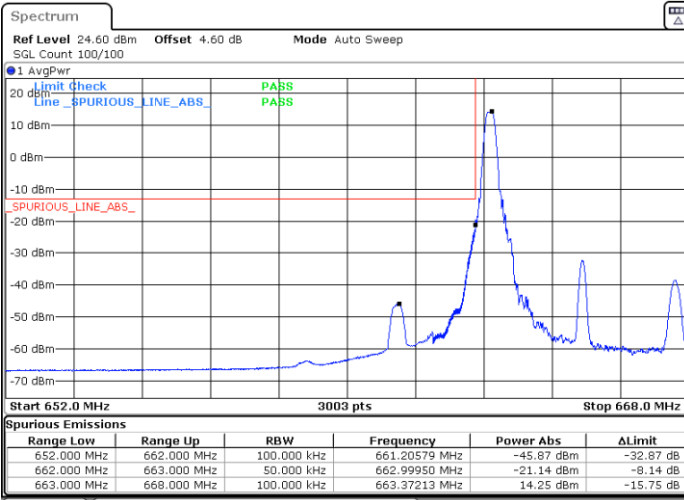
Date: 3.MAR.2022 18:58:04



FR1 n71 / 5MHz / DFT-S OFDM / 256Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

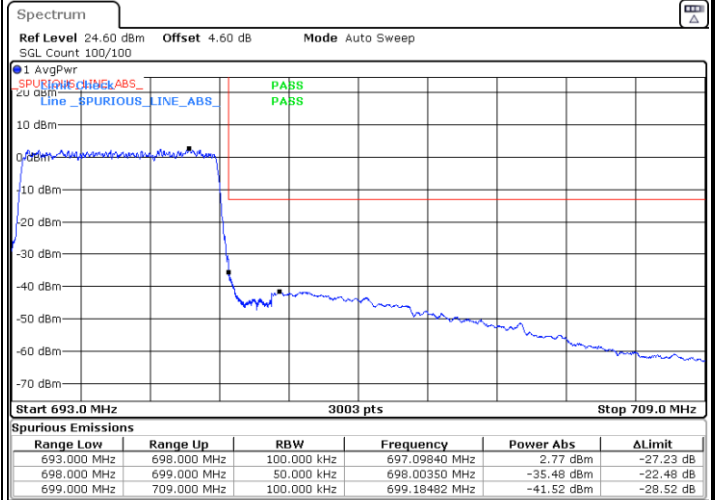
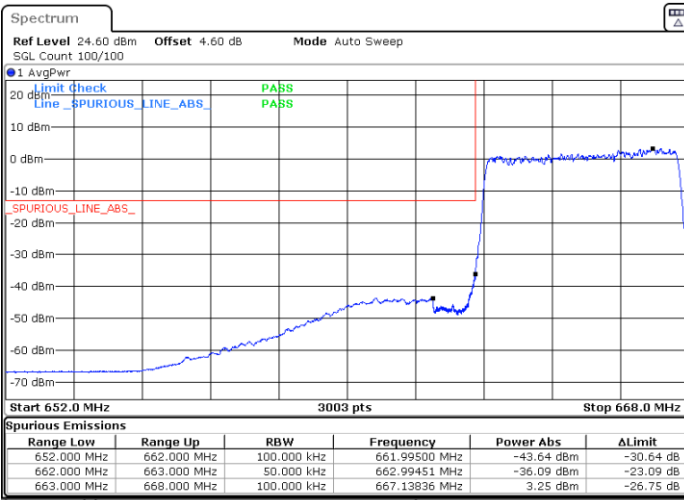


Date: 3.MAR.2022 18:38:35

Date: 3.MAR.2022 19:00:42

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.MAR.2022 18:37:15

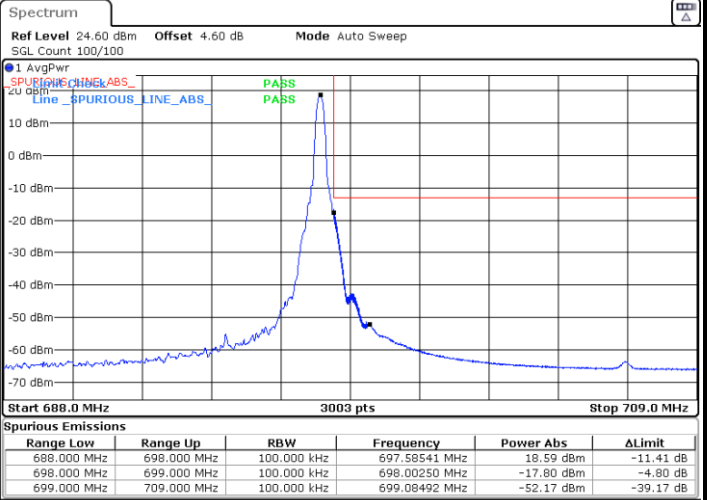
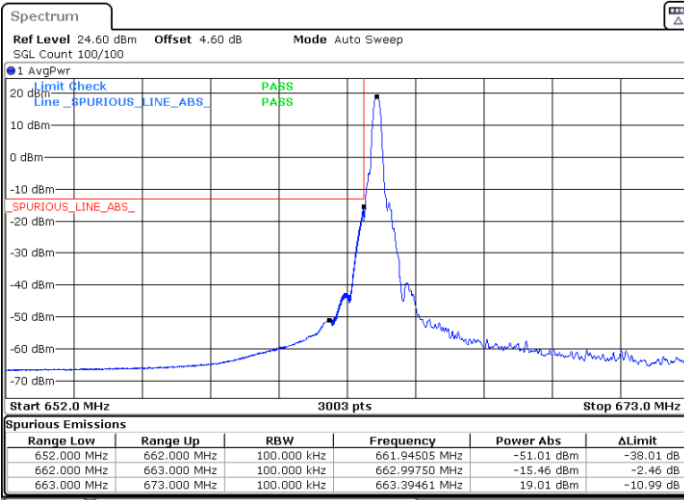
Date: 3.MAR.2022 18:59:03



FR1 n71 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

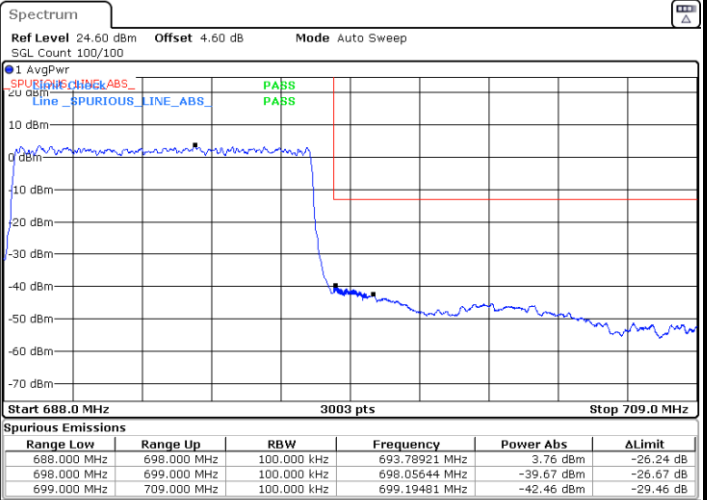
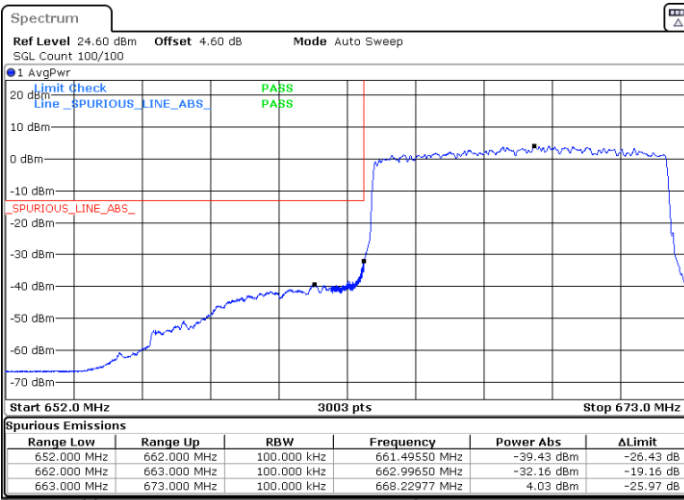


Date: 3.MAR.2022 19:07:57

Date: 3.MAR.2022 19:38:51

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.MAR.2022 19:06:25

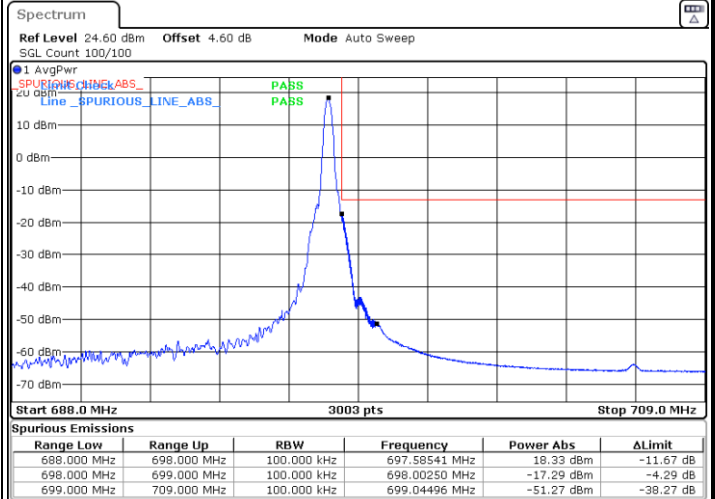
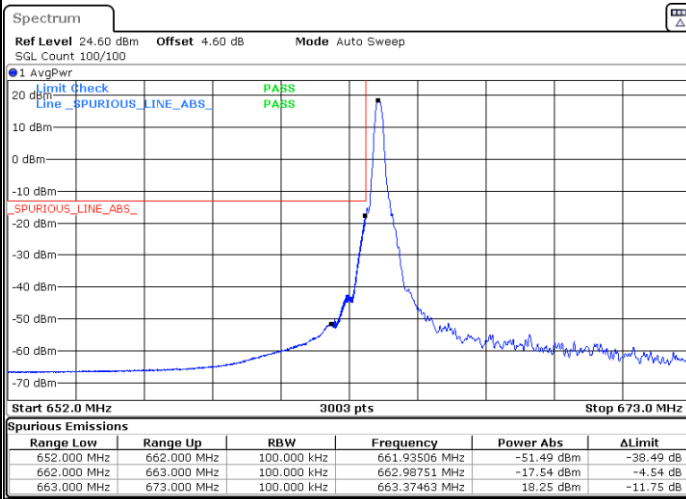
Date: 3.MAR.2022 19:36:38



FR1 n71 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

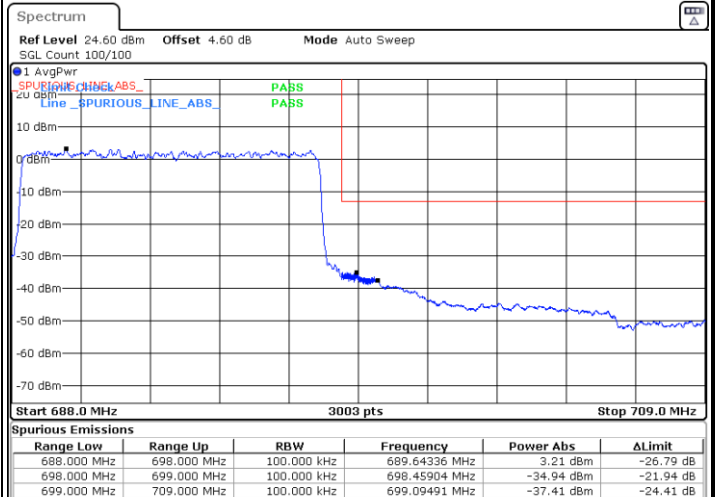
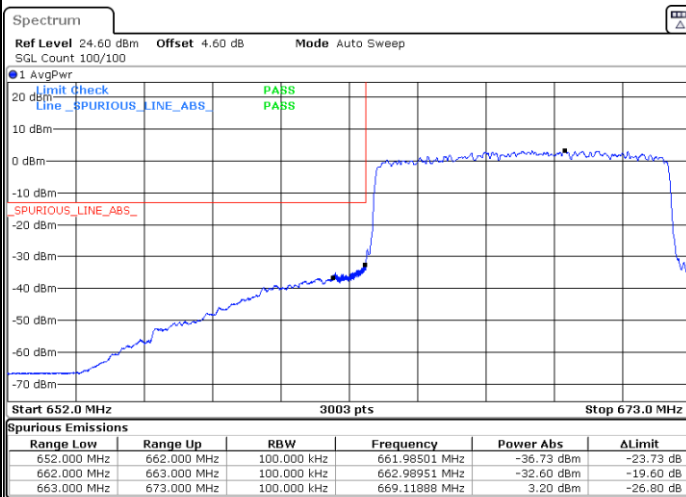


Date: 3.MAR.2022 19:18:23

Date: 3.MAR.2022 19:22:48

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.MAR.2022 19:09:00

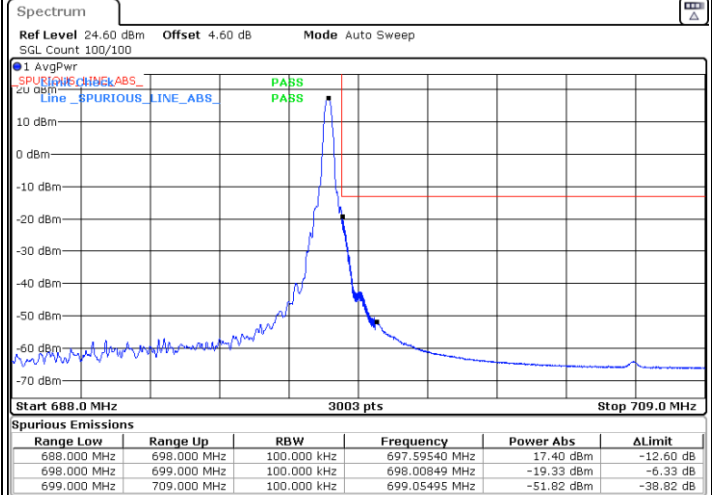
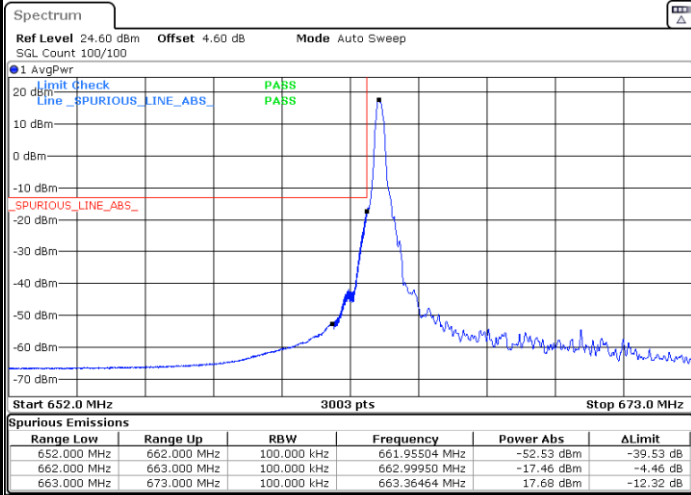
Date: 3.MAR.2022 19:35:20



FR1 n71/ 10MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

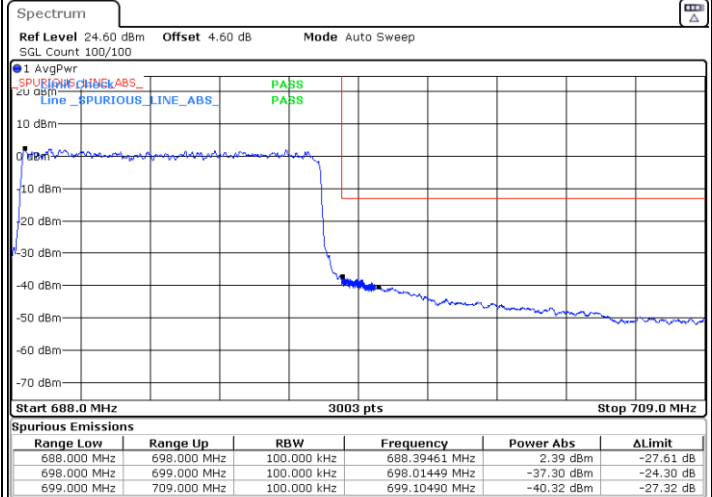
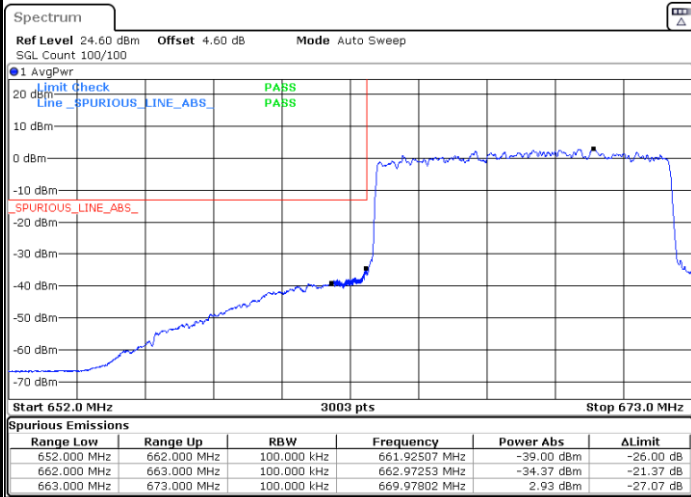


Date: 3.MAR.2022 19:17:03

Date: 3.MAR.2022 19:25:45

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.MAR.2022 19:10:00

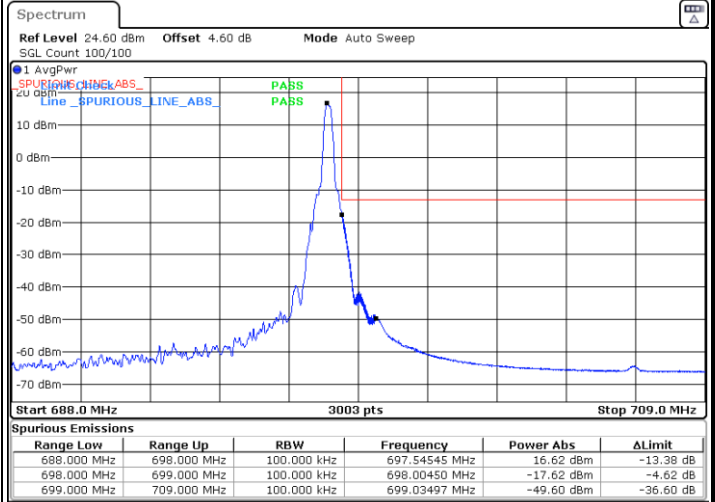
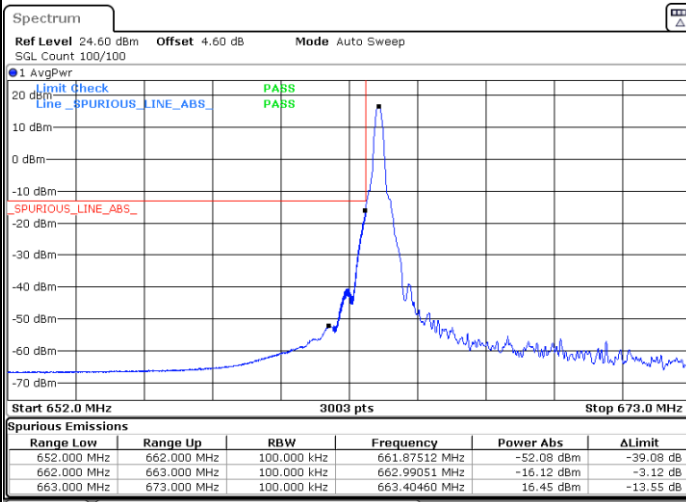
Date: 3.MAR.2022 19:34:22



FR1 n71 / 10MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

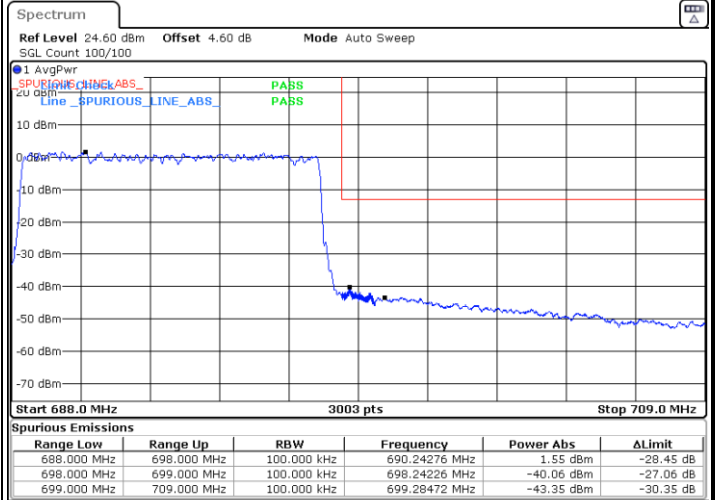
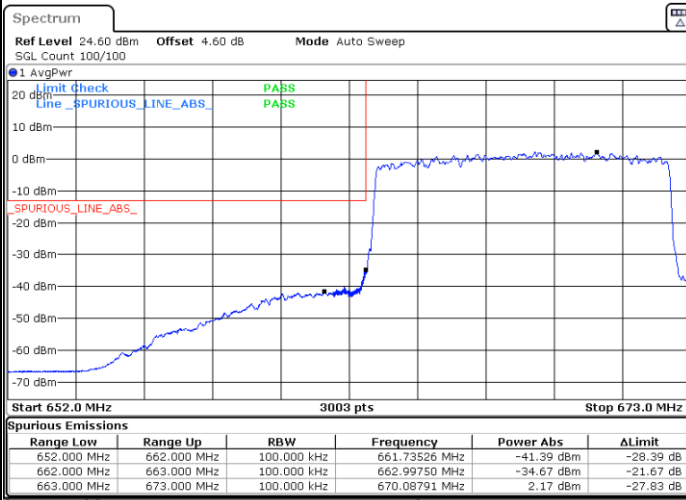


Date: 3.MAR.2022 19:14:47

Date: 3.MAR.2022 19:28:08

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.MAR.2022 19:11:21

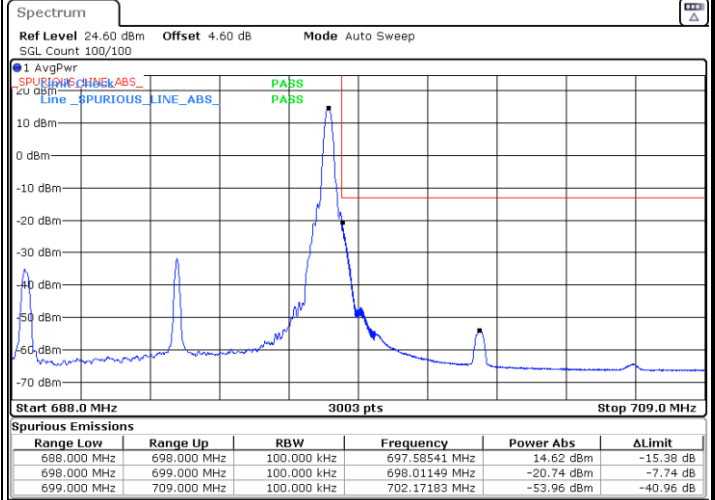
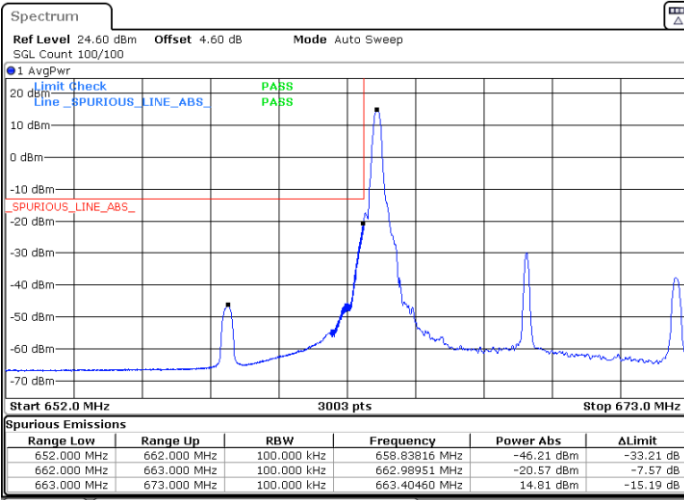
Date: 3.MAR.2022 19:33:00



FR1 n71 / 10MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

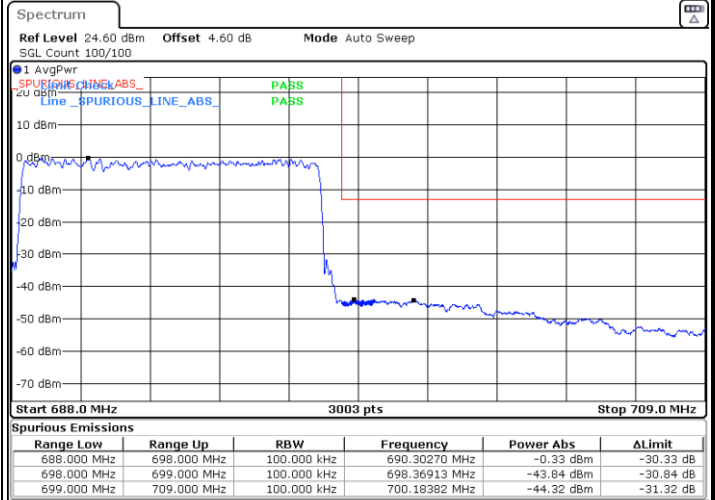
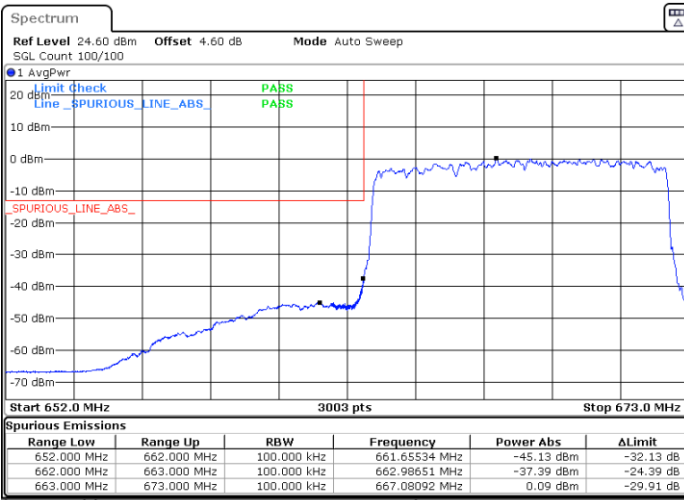


Date: 3.MAR.2022 19:13:24

Date: 3.MAR.2022 19:30:51

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.MAR.2022 19:12:21

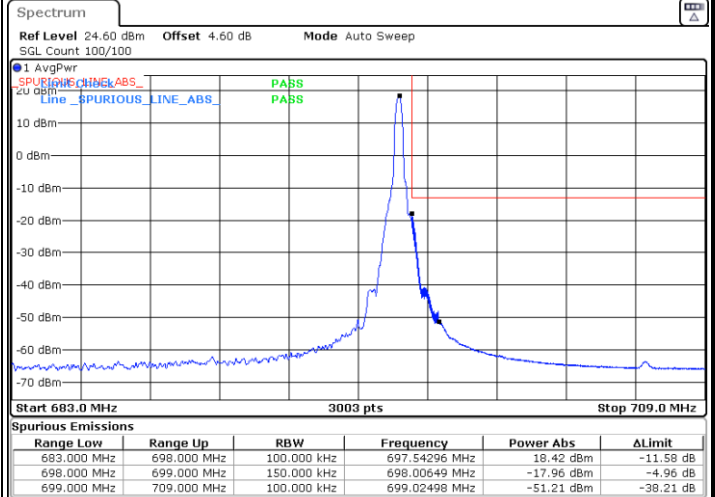
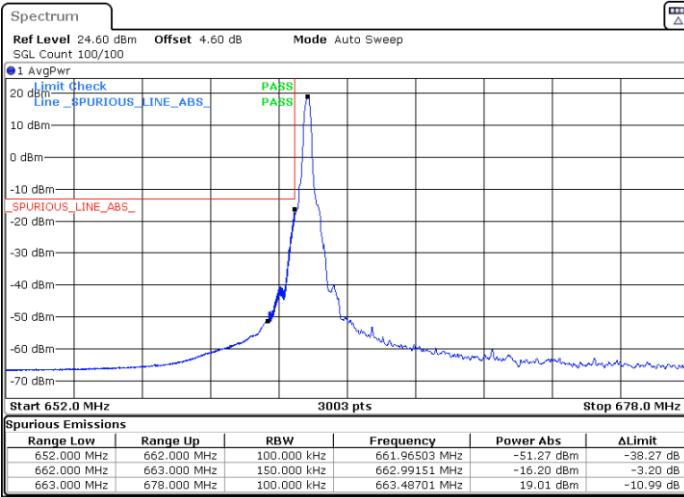
Date: 3.MAR.2022 19:32:08



FR1 n71 / 15MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

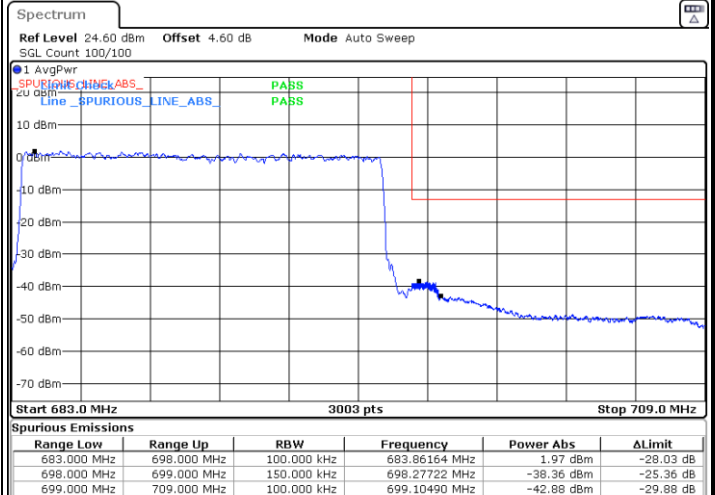
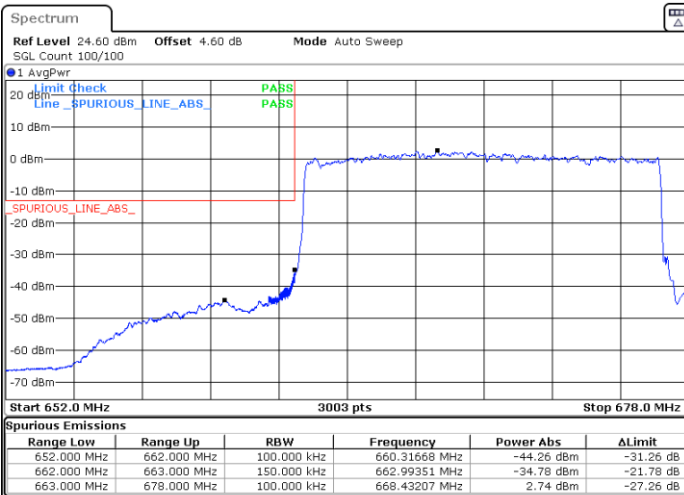


Date: 3.MAR.2022 19:41:13

Date: 3.MAR.2022 20:29:52

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.MAR.2022 19:44:08

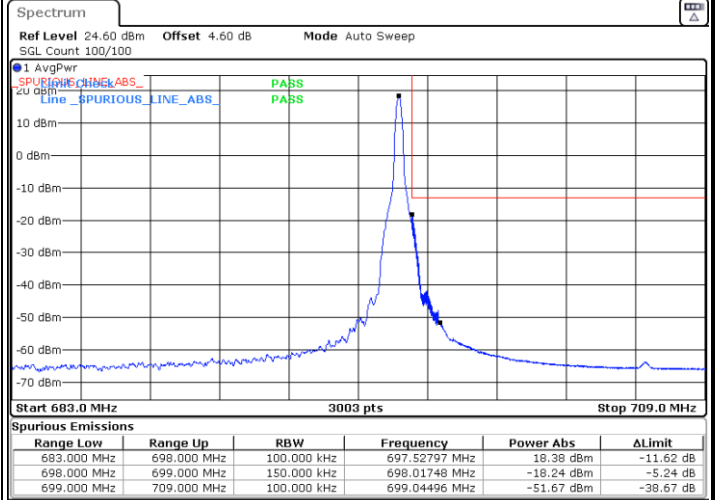
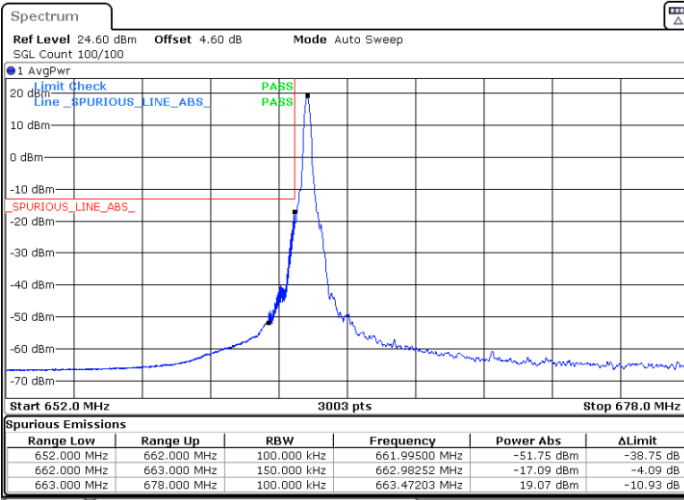
Date: 3.MAR.2022 20:31:05



FR1 n71/ 15MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

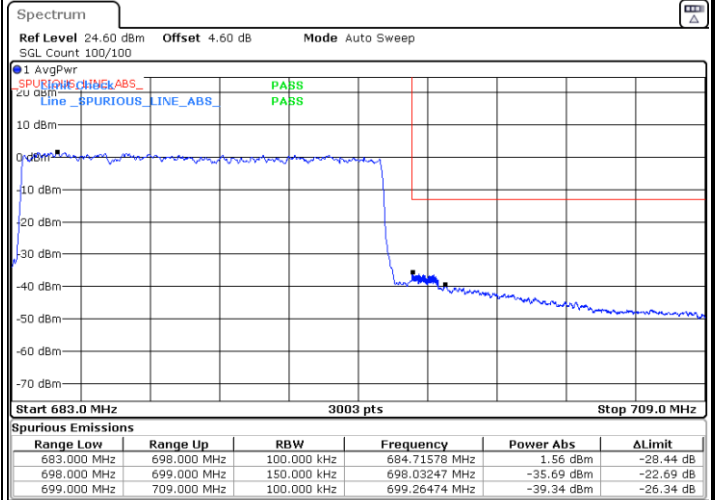
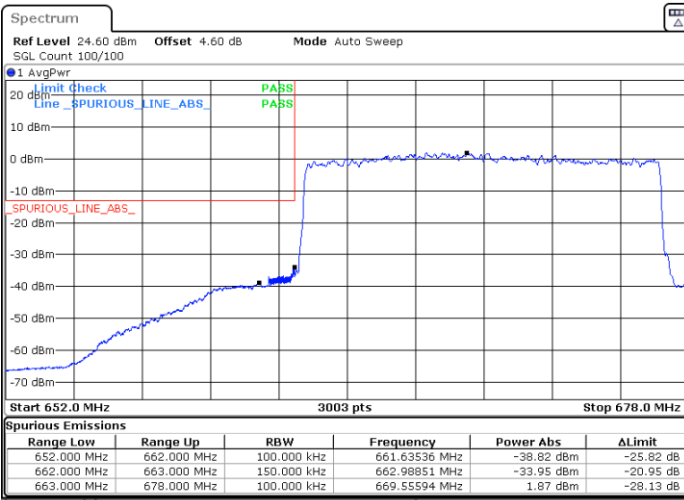


Date: 3.MAR.2022 20:14:42

Date: 3.MAR.2022 20:28:28

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.MAR.2022 20:01:26

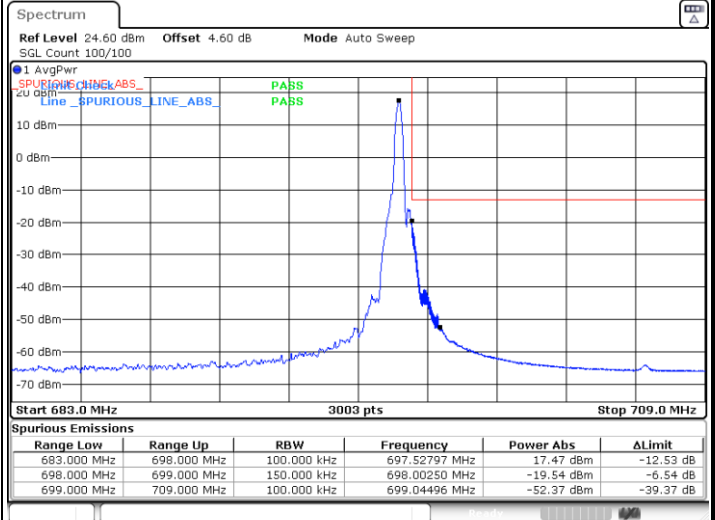
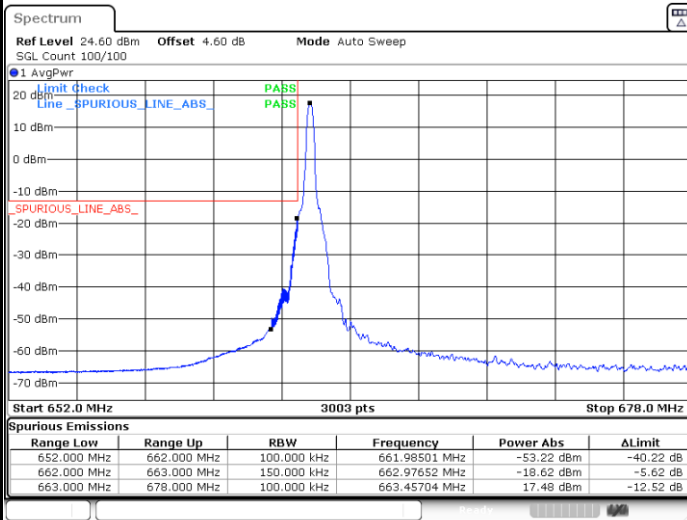
Date: 3.MAR.2022 20:19:32



FR1 n71 / 15MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

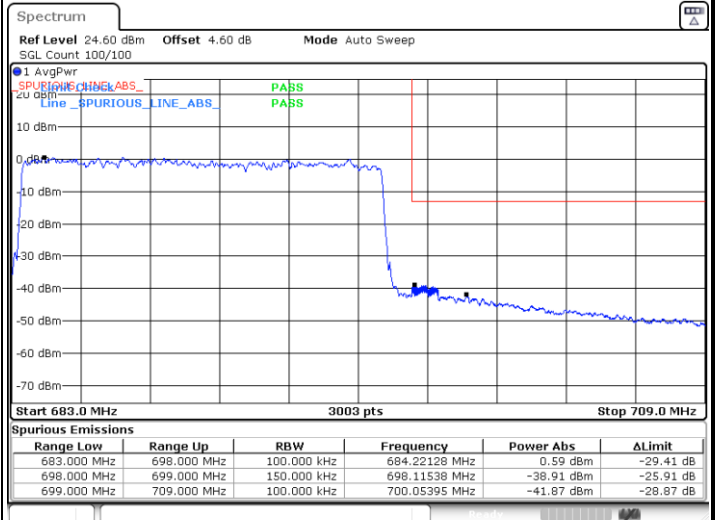
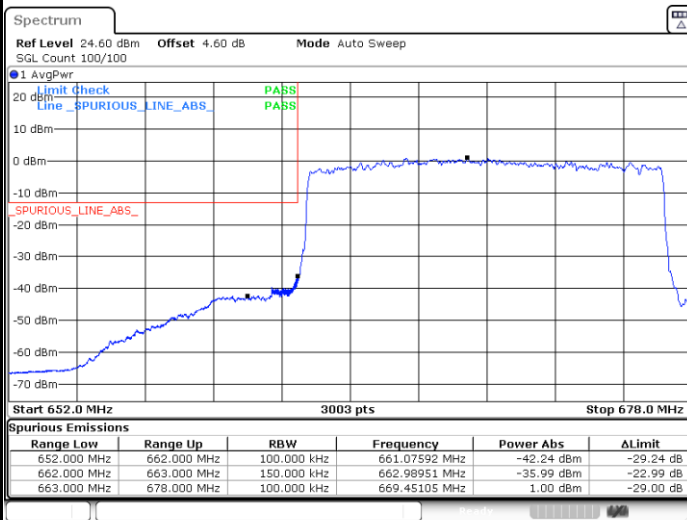


Date: 3.MAR.2022 20:13:46

Date: 3.MAR.2022 20:27:38

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.MAR.2022 20:04:43

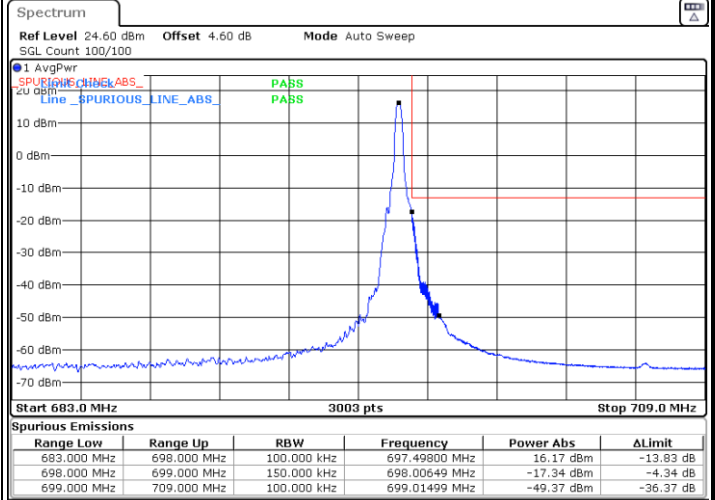
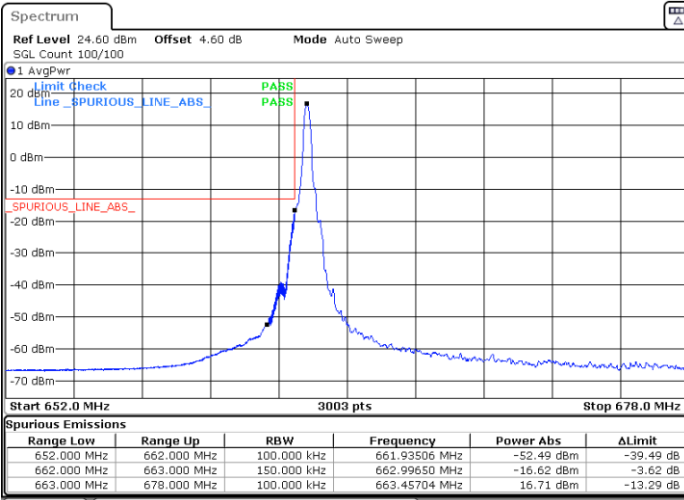
Date: 3.MAR.2022 20:20:31



FR1 n71 / 15MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

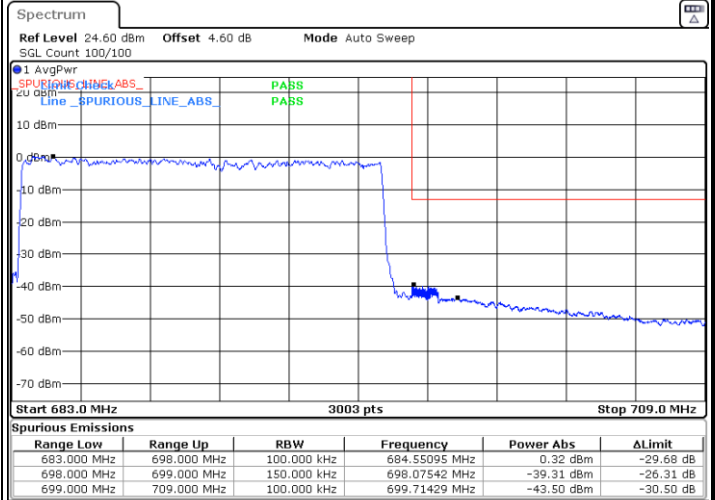
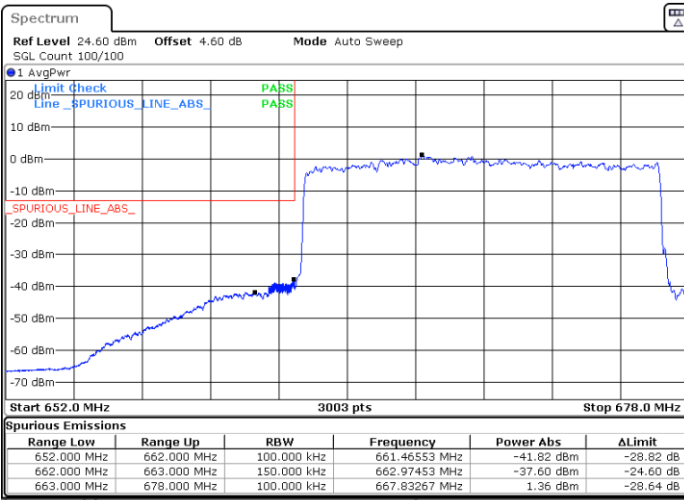


Date: 3.MAR.2022 20:11:36

Date: 3.MAR.2022 20:26:12

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.MAR.2022 20:07:24

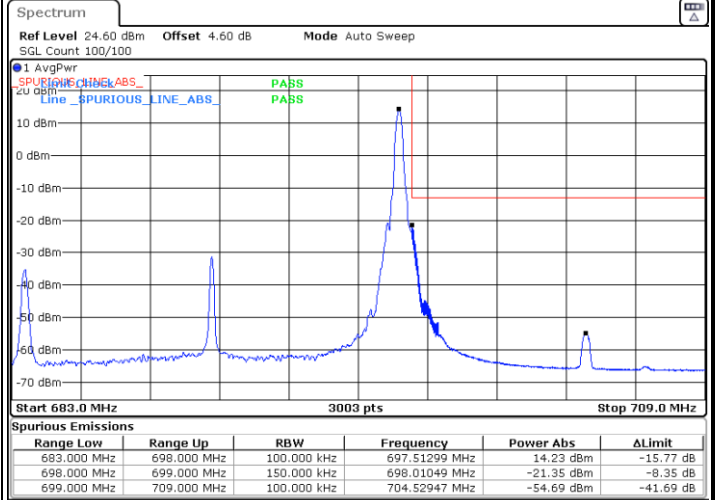
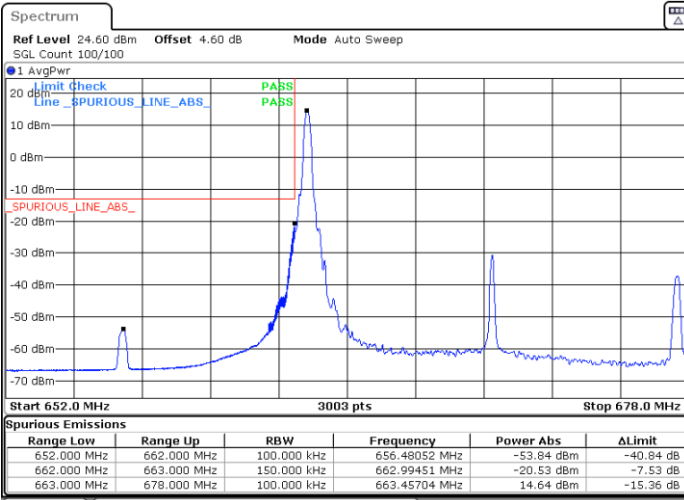
Date: 3.MAR.2022 20:22:16



FR1 n71/ 15MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

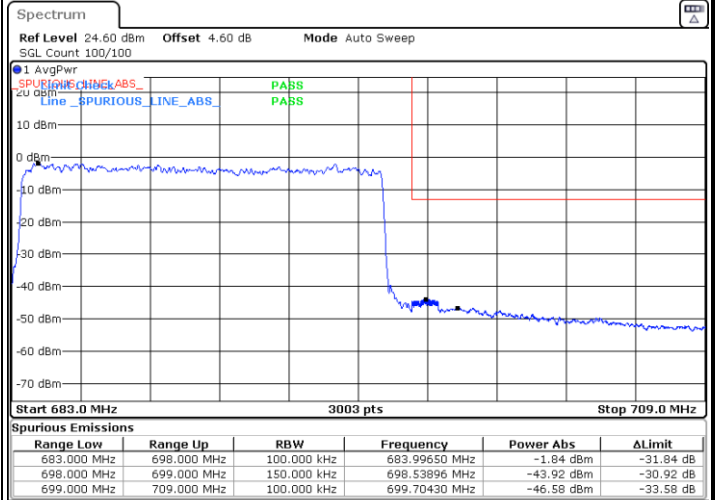
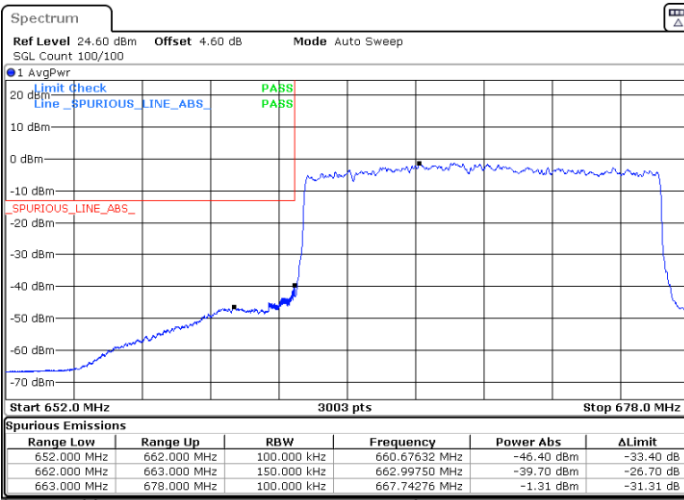


Date: 3.MAR.2022 20:10:45

Date: 3.MAR.2022 20:24:49

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.MAR.2022 20:08:45

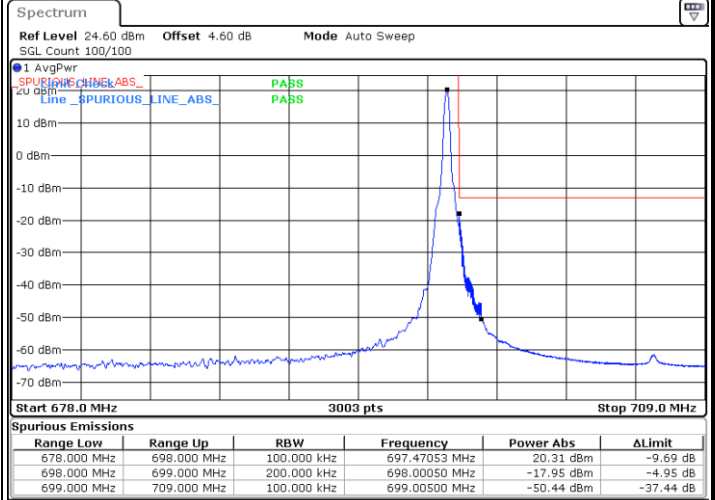
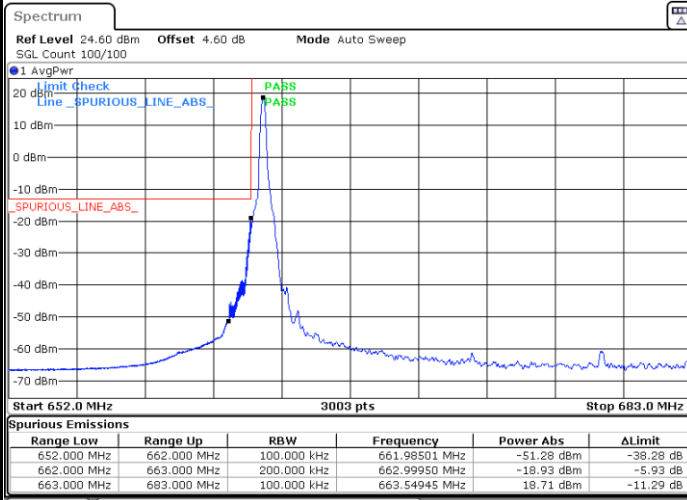
Date: 3.MAR.2022 20:23:22



FR1 n71 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

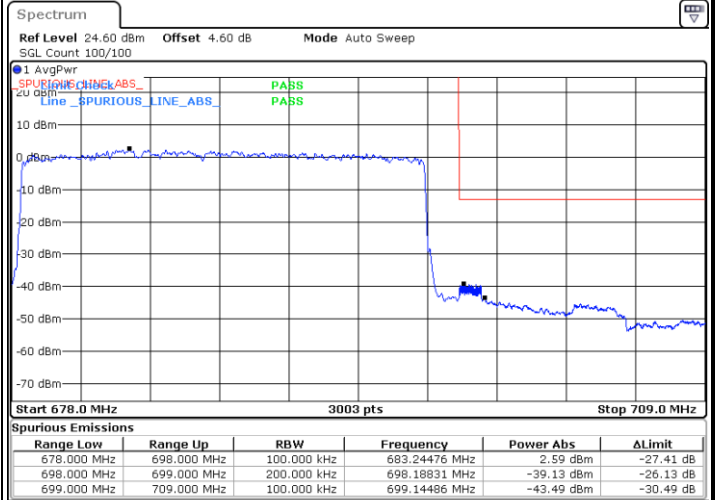
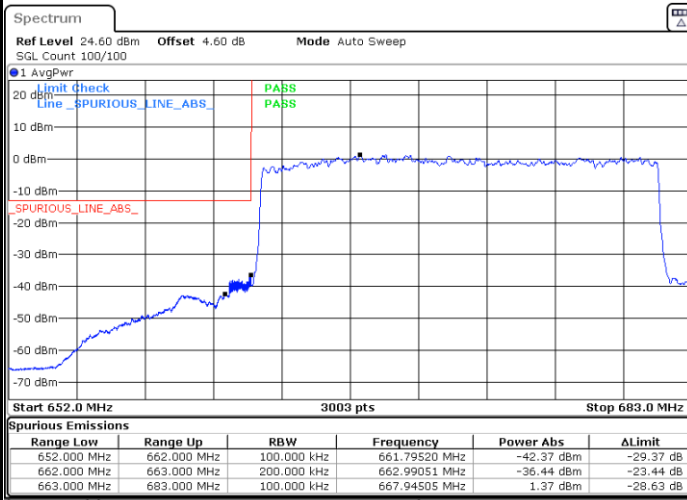


Date: 3.MAR.2022 20:34:24

Date: 3.MAR.2022 16:36:42

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.MAR.2022 20:38:24

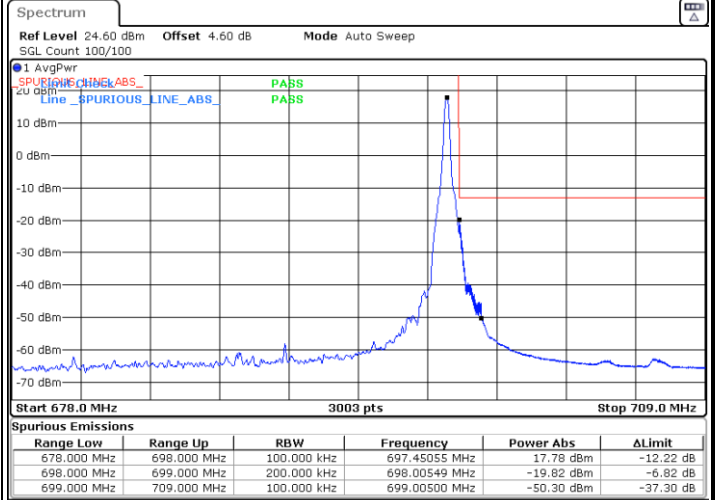
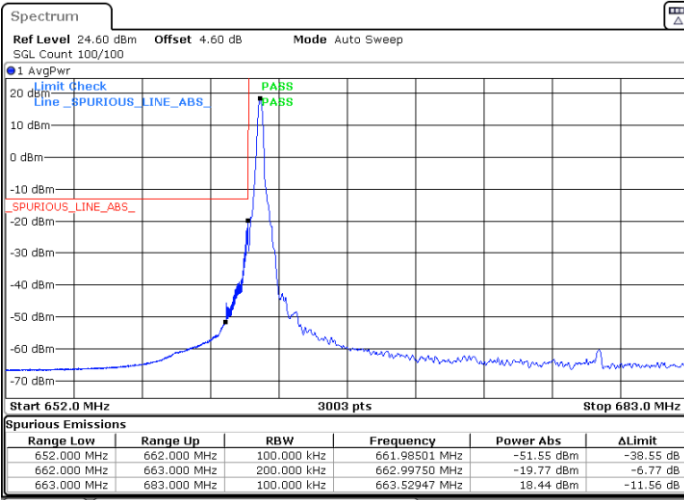
Date: 3.MAR.2022 16:35:40



FR1 n71/ 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

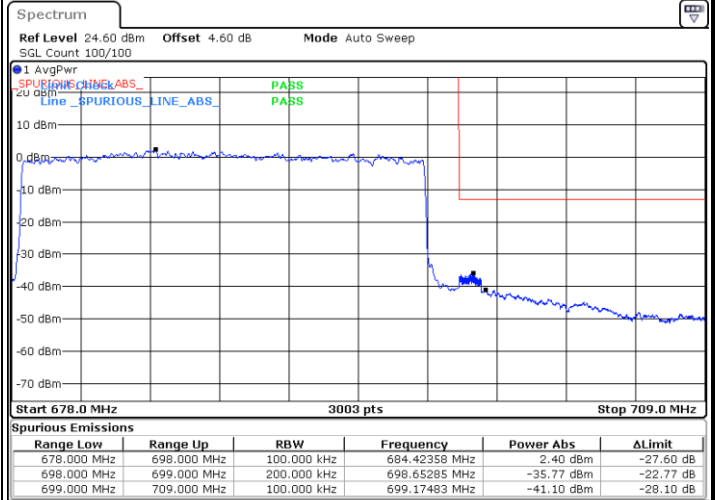
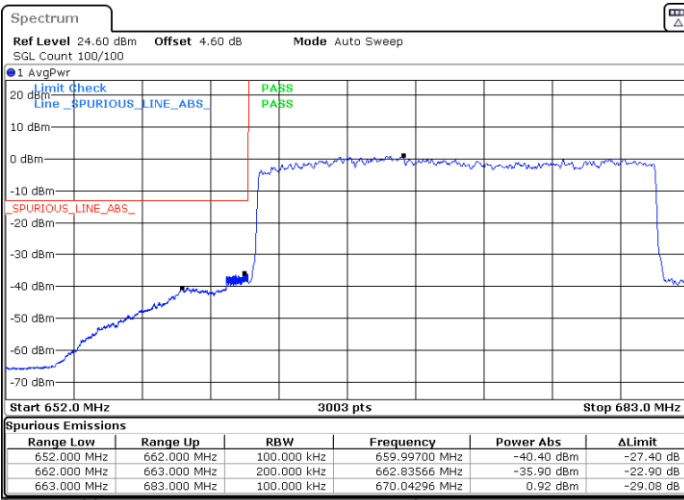


Date: 3.MAR.2022 21:06:56

Date: 3.MAR.2022 21:14:33

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.MAR.2022 20:37:13

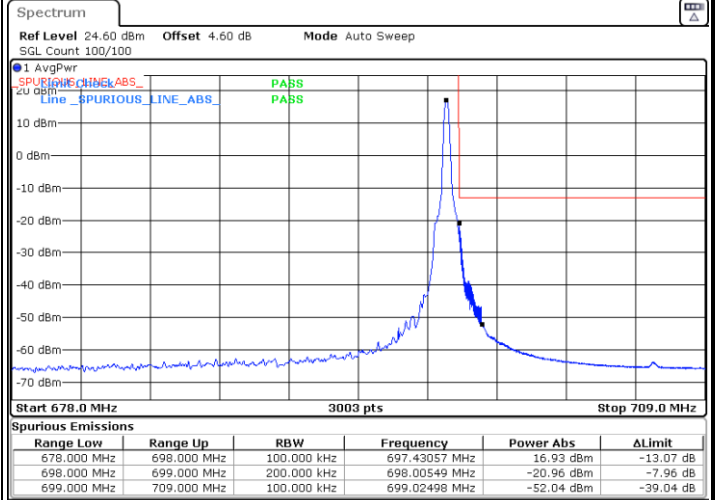
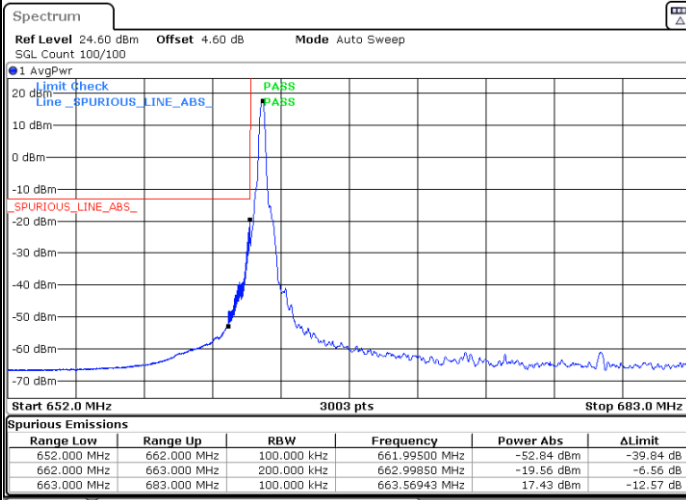
Date: 3.MAR.2022 16:34:50



FR1 n71 / 20MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

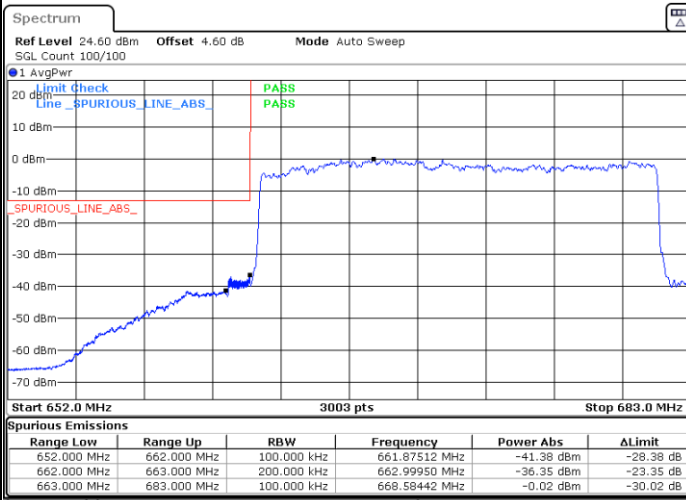


Date: 3.MAR.2022 21:04:33

Date: 3.MAR.2022 21:15:55

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.MAR.2022 20:39:50

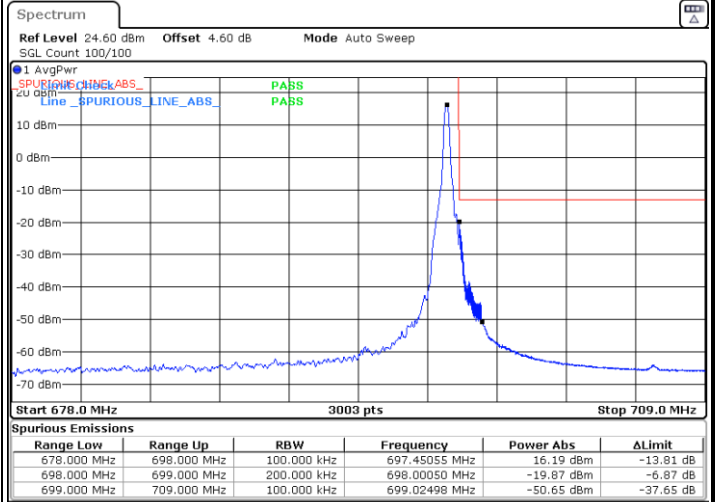
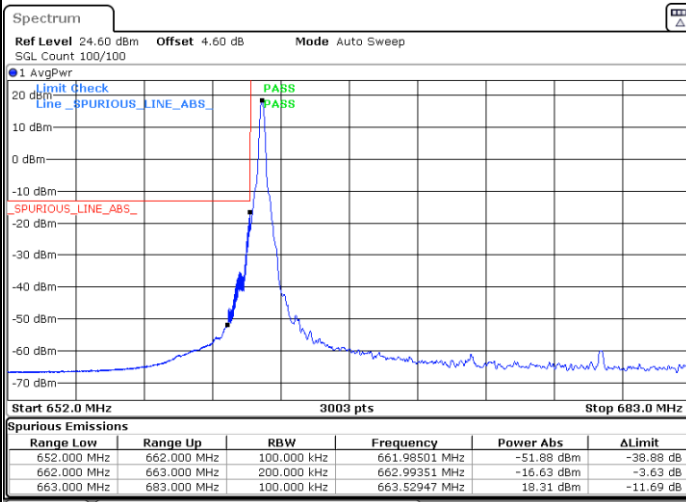
Date: 3.MAR.2022 16:33:52



FR1 n71 / 20MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

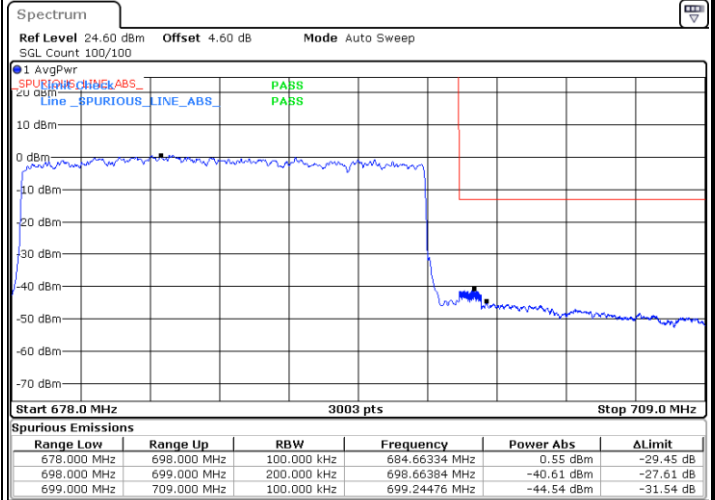
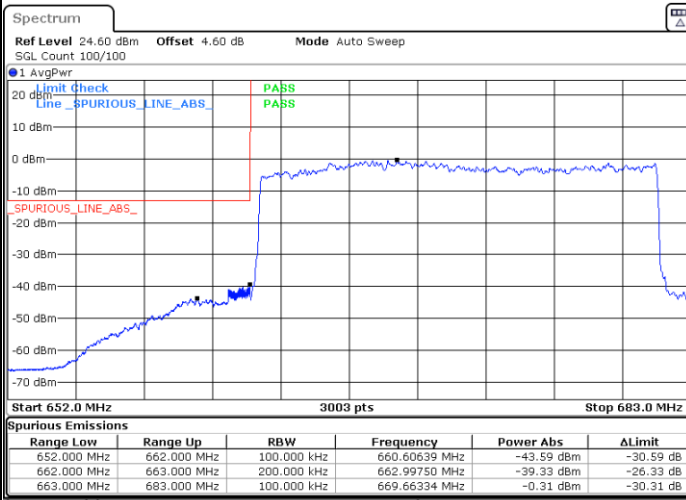


Date: 3.MAR.2022 20:44:00

Date: 3.MAR.2022 21:18:36

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.MAR.2022 20:40:50

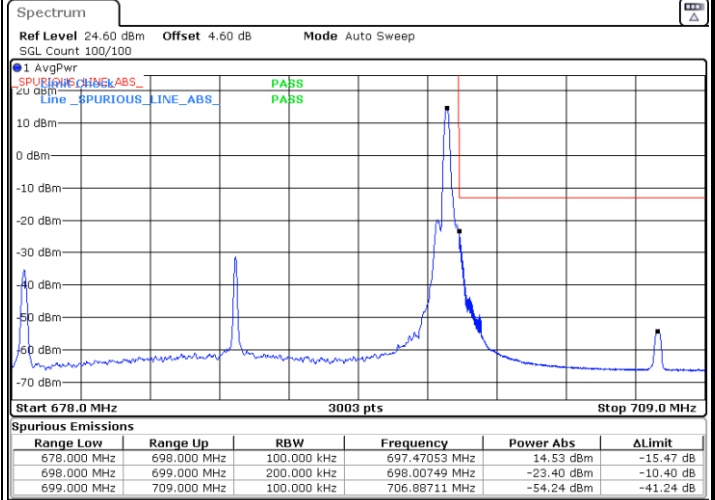
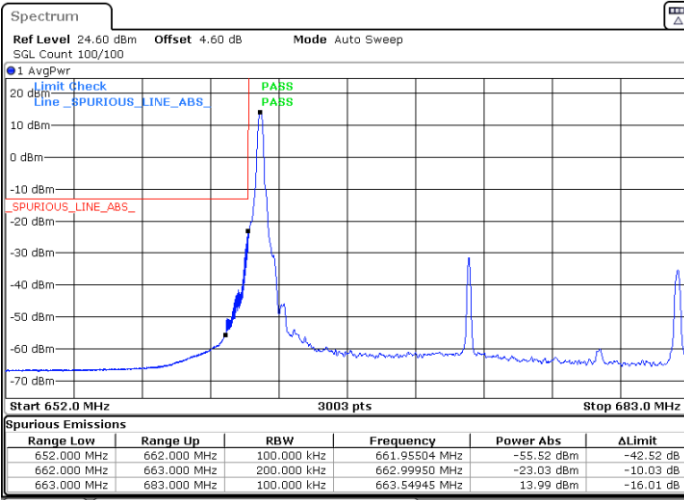
Date: 3.MAR.2022 16:33:10



FR1 n71/ 20MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

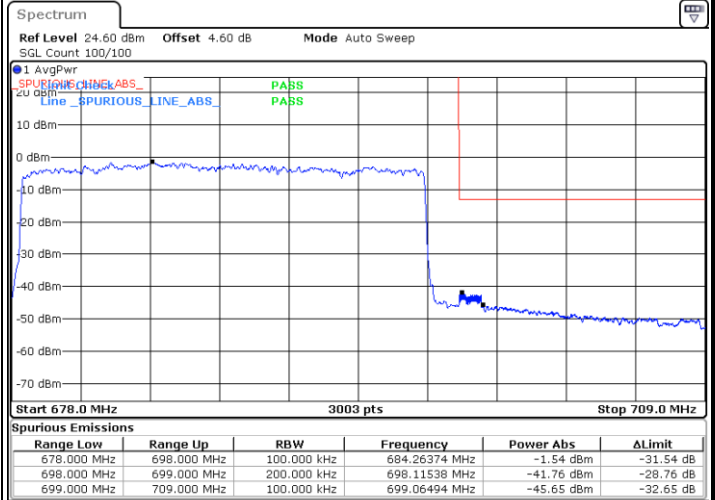
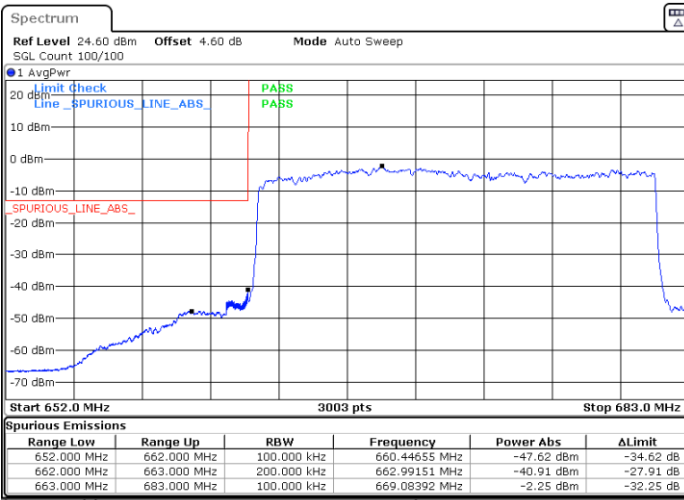


Date: 3.MAR.2022 20:43:05

Date: 3.MAR.2022 21:19:52

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.MAR.2022 20:41:49

Date: 3.MAR.2022 16:32:26

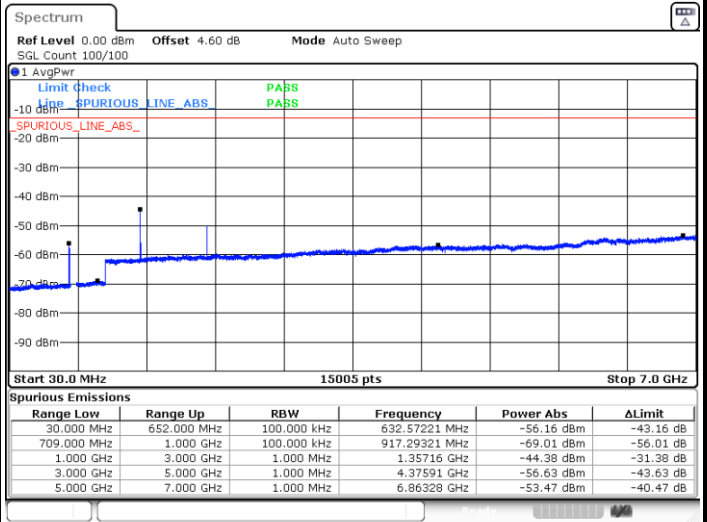
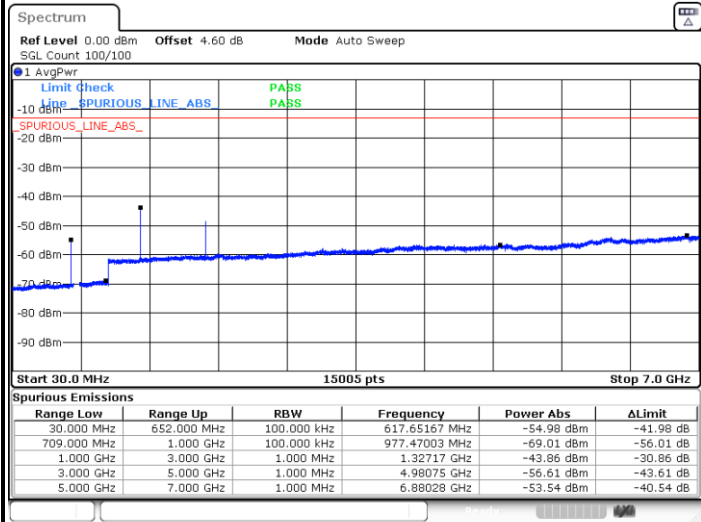


Conducted Spurious Emission

FR1 n71 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

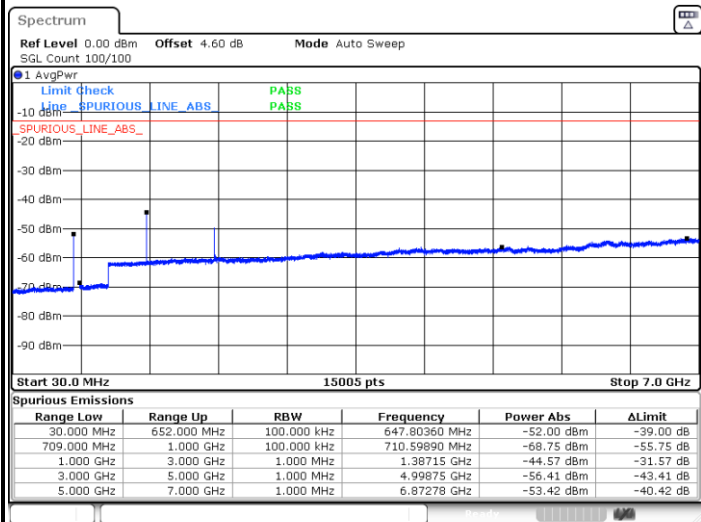
Middle Channel / 1RB1



Date: 3.MAR.2022 18:49:33

Date: 3.MAR.2022 18:51:33

Highest Channel / 1RB1



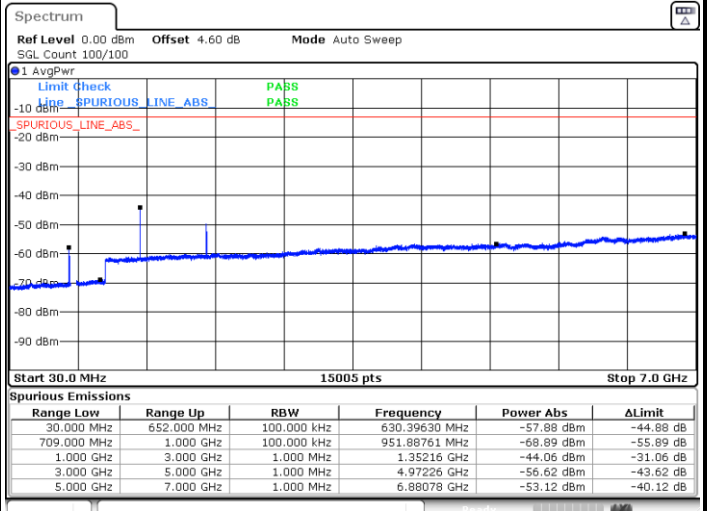
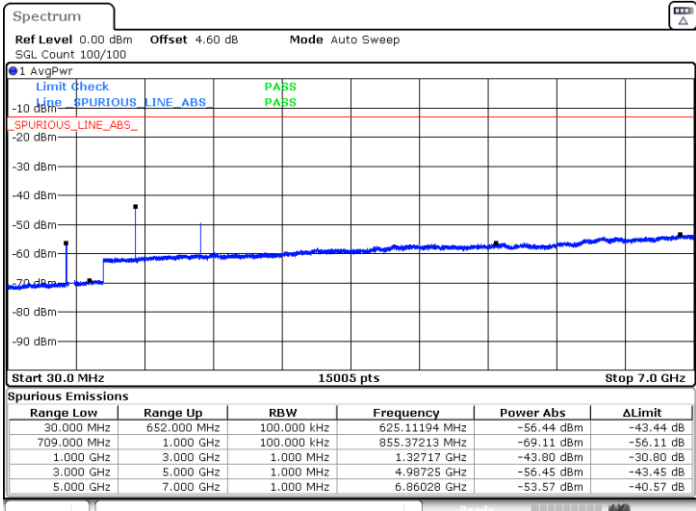
Date: 3.MAR.2022 18:52:26



FR1 n71/ 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

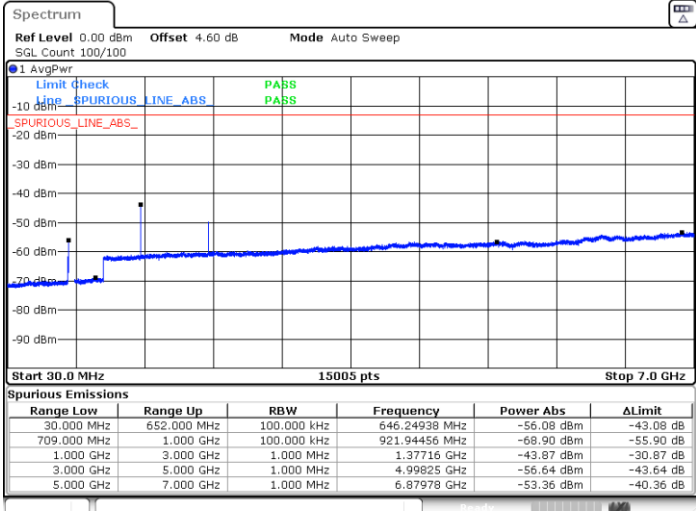
Middle Channel / 1RB1



Date: 3.MAR.2022 19:19:30

Date: 3.MAR.2022 19:20:32

Highest Channel / 1RB1



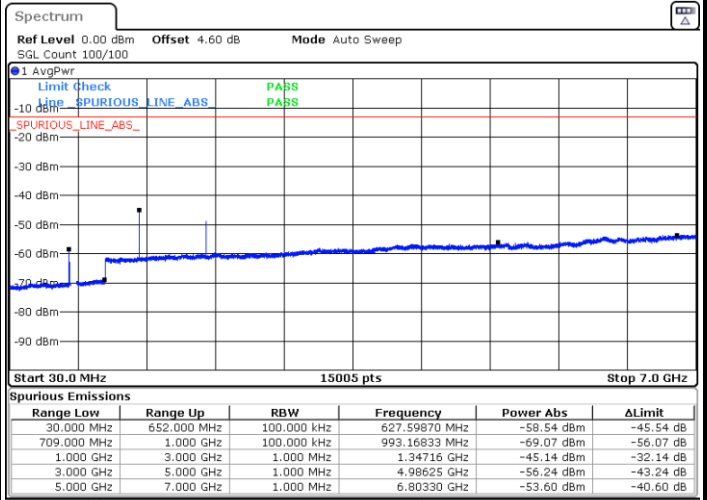
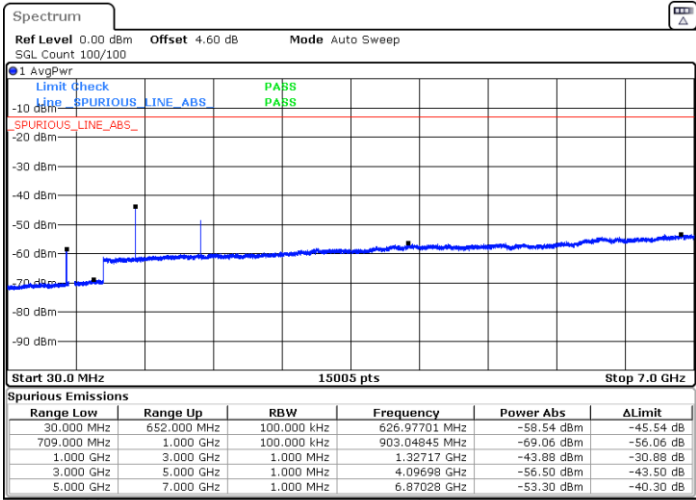
Date: 3.MAR.2022 19:21:51



FR1 n71 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

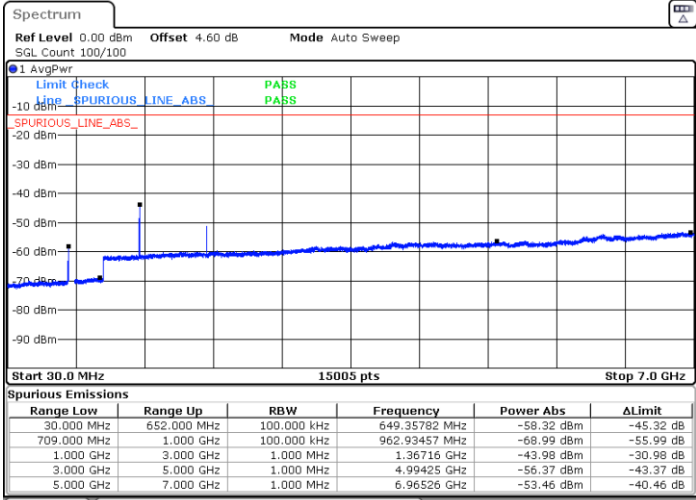
Middle Channel / 1RB1



Date: 3.MAR.2022 20:15:37

Date: 3.MAR.2022 20:16:36

Highest Channel / 1RB1



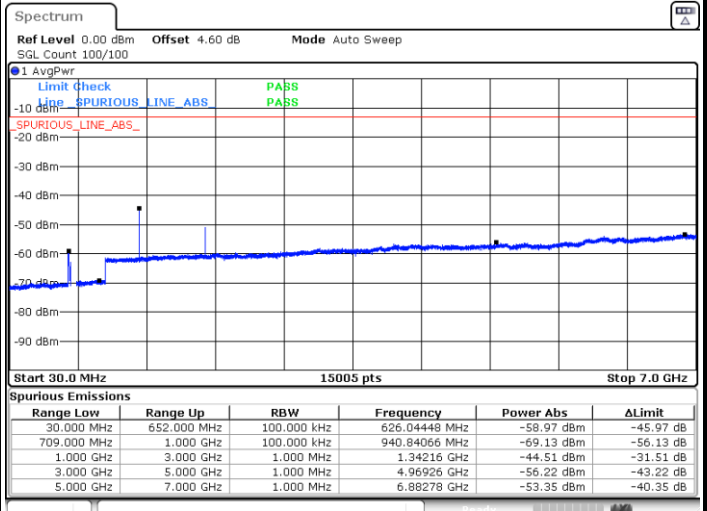
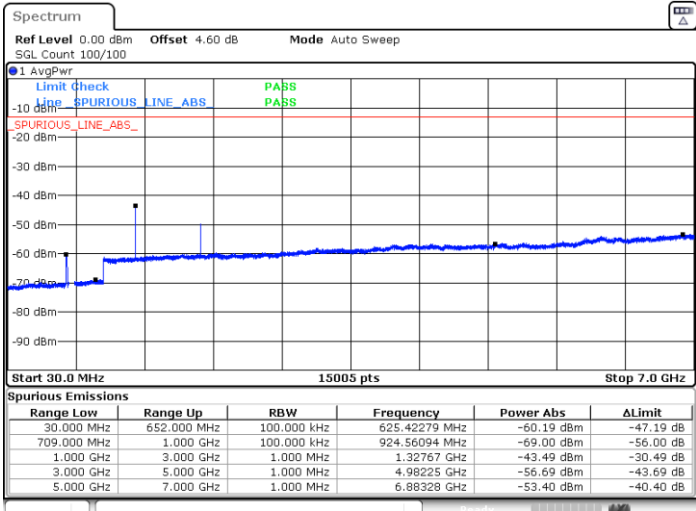
Date: 3.MAR.2022 20:17:37



FR1 n71 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

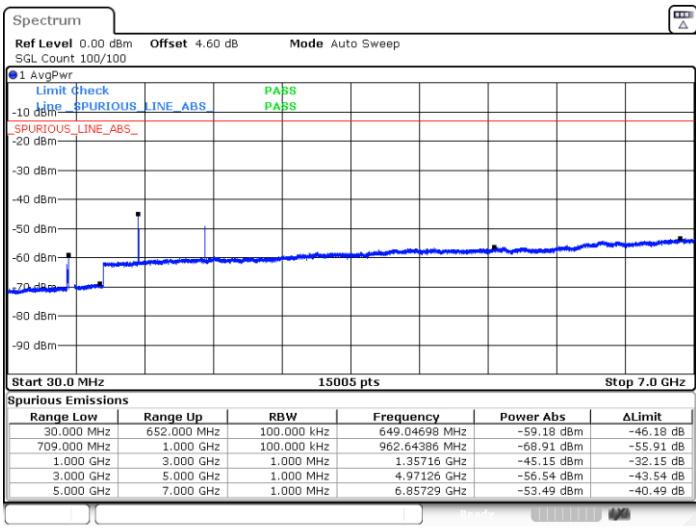
Middle Channel / 1RB1



Date: 3.MAR.2022 21:07:32

Date: 3.MAR.2022 21:10:03

Highest Channel / 1RB1



Date: 3.MAR.2022 21:11:53



Frequency Stability

Test Conditions		FR1 n71 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0028	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0026	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0014	
20	Battery End Point	0.0028	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



FR1 n77

Conducted Output Power(Average power) and EIRP

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Gain	EIRP	EIRP	EIRP
Channel				650000	656000	662000		L	M	H
Frequency (MHz)				3750	3840	3930				
100	PI/2 BPSK	1	1	23.58	23.68	23.64	0.00	0.2280	0.2333	0.2312
100	PI/2 BPSK	1	137	23.19	23.59	23.40	0.00	0.2084	0.2286	0.2188
100	PI/2 BPSK	1	271	23.06	23.64	23.36	0.00	0.2023	0.2312	0.2168
100	PI/2 BPSK	135	0	22.60	22.65	22.87	0.00	0.1820	0.1841	0.1936
100	PI/2 BPSK	135	69	23.25	23.42	23.40	0.00	0.2113	0.2198	0.2188
100	PI/2 BPSK	135	138	22.61	23.04	23.03	0.00	0.1824	0.2014	0.2009
100	PI/2 BPSK	270	0	22.56	22.96	22.96	0.00	0.1803	0.1977	0.1977
100	QPSK	1	1	22.84	22.82	23.04	0.00	0.1923	0.1914	0.2014
100	QPSK	1	137	23.21	23.42	23.34	0.00	0.2094	0.2198	0.2158
100	QPSK	1	271	22.98	23.41	23.21	0.00	0.1986	0.2193	0.2094
100	QPSK	135	0	22.04	22.26	22.42	0.00	0.1600	0.1683	0.1746
100	QPSK	135	69	23.27	23.36	23.44	0.00	0.2123	0.2168	0.2208
100	QPSK	135	138	22.09	22.45	22.54	0.00	0.1618	0.1758	0.1795
100	QPSK	270	0	22.11	22.42	22.31	0.00	0.1626	0.1746	0.1702
100	16QAM	1	1	22.01	22.02	22.43	0.00	0.1589	0.1592	0.1750
100	64QAM	1	1	19.80	19.87	20.24	0.00	0.0955	0.0971	0.1057
100	256QAM	1	1	18.11	18.32	18.52	0.00	0.0647	0.0679	0.0711
Channel				649668	656000	662334	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3745.02	3840	3935.01				
90	PI/2 BPSK	1	1	22.59	22.74	23.02	0.00	0.1816	0.1879	0.2004
Channel				649334	656000	662668	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3740.01	3840	3940.02				
80	PI/2 BPSK	1	1	22.70	22.98	23.25	0.00	0.1862	0.1986	0.2113
Channel				649000	656000	663000	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3735	3840	3945				
70	PI/2 BPSK	1	1	22.96	23.12	23.21	0.00	0.1977	0.2051	0.2094
Channel				648668	656000	663334	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3730.02	3840	3950.01				
60	PI/2 BPSK	1	1	23.01	23.14	23.15	0.00	0.2000	0.2061	0.2065
Channel				648334	656000	663668	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3725.01	3840	3955.02				
50	PI/2 BPSK	1	1	22.89	23.23	22.98	0.00	0.1945	0.2104	0.1986
Channel				648000	656000	664000	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3720	3840	3960				
40	PI/2 BPSK	1	1	23.56	23.61	23.60	0.00	0.2270	0.2296	0.2291
Channel				647334	656000	664668	Gain	EIRP	EIRP	EIRP



Frequency (MHz)				3710.01	3840	3970.02				
20	PI/2 BPSK	1	1	23.32	23.56	23.45	0.00	0.2148	0.2270	0.2213



Peak-to-Average Ratio

Mode	FR1 n71 / 100MHz / DFT-S OFDM				
Mod.	100M				Limit: 13dB
RB Size	BPSK	QPSK	16QAM	64QAM	Result
Middle CH	5.33	5.27	5.45	5.31	PASS
RB Size	256QAM				
Middle CH	5.3				