



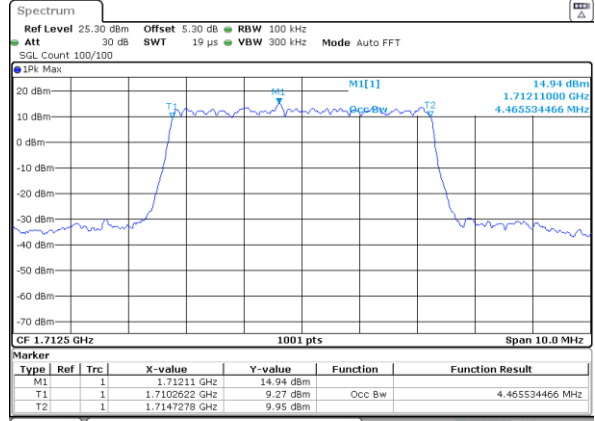
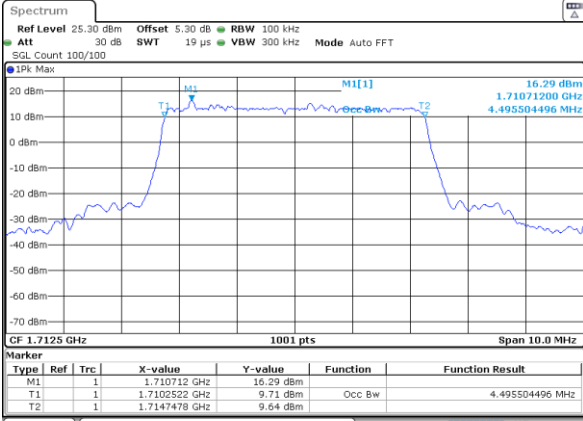
FR1 n66 / 5MHz / DFT-S OFDM

QPSK

16QAM

Lowest Channel

Lowest Channel

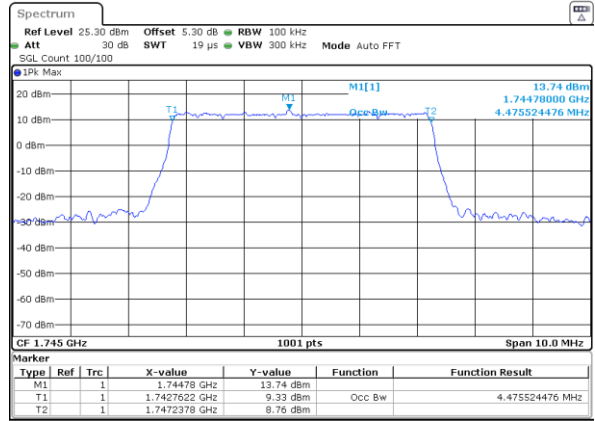
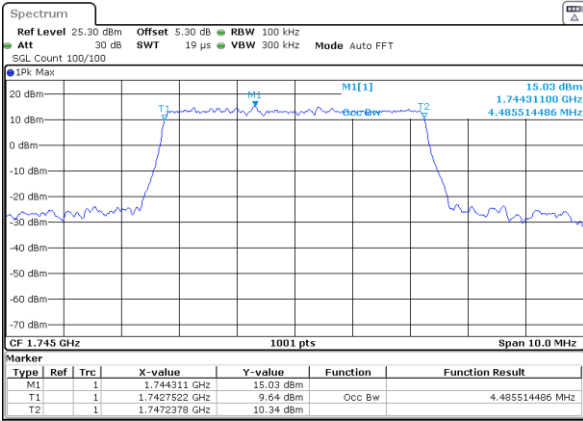


Date: 13 SEP 2020 02:50:03

Date: 13 SEP 2020 02:50:19

Middle Channel

Middle Channel

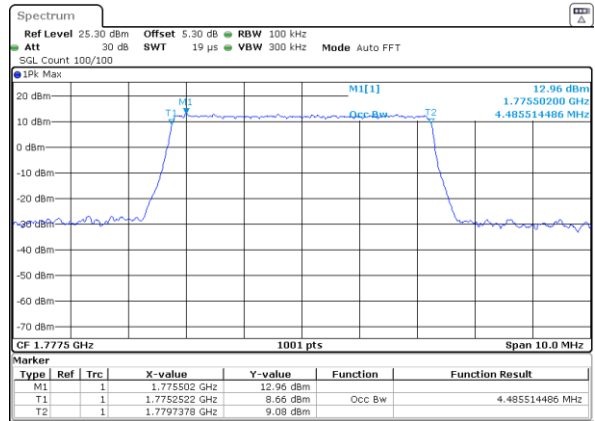
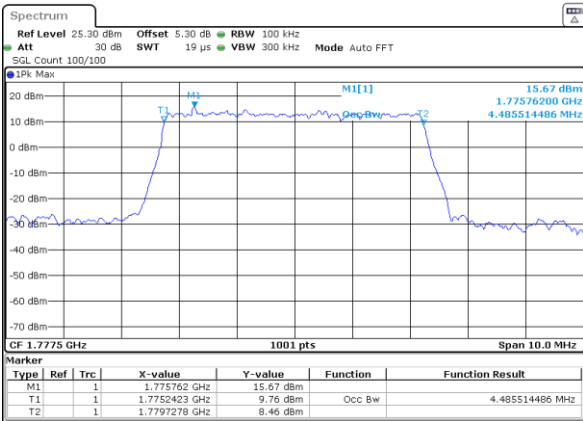


Date: 13 SEP 2020 02:52:50

Date: 13 SEP 2020 02:53:05

Highest Channel

Highest Channel



Date: 13 SEP 2020 02:54:17

Date: 13 SEP 2020 02:54:31



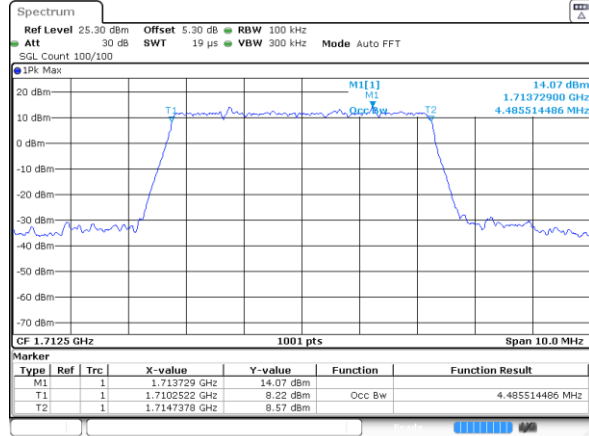
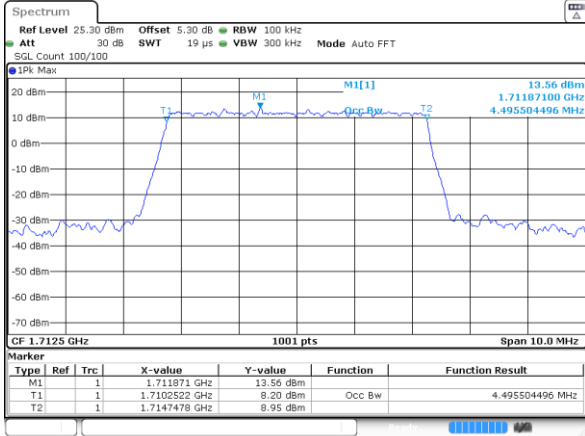
FR1 n66 / 5MHz / DFT-S OFDM

64QAM

256QAM

Lowest Channel

Lowest Channel

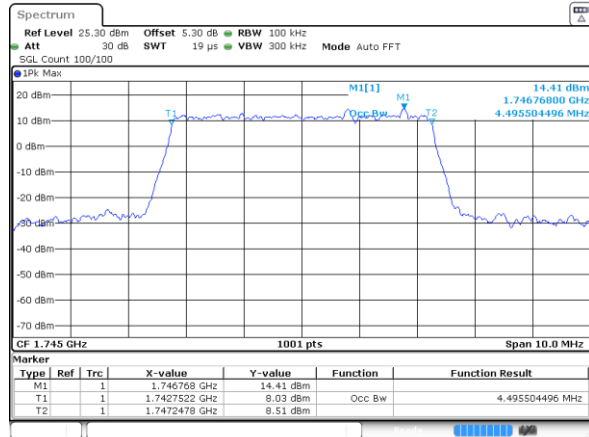
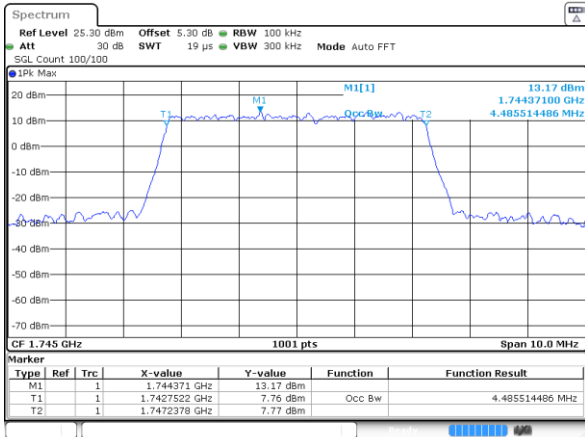


Date: 13 SEP 2020 02:50:34

Date: 13 SEP 2020 02:50:46

Middle Channel

Middle Channel

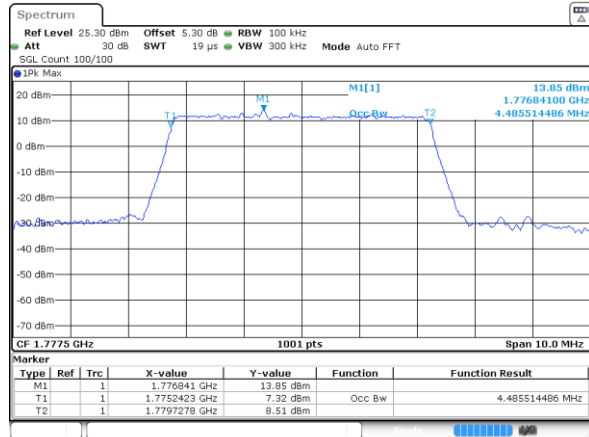
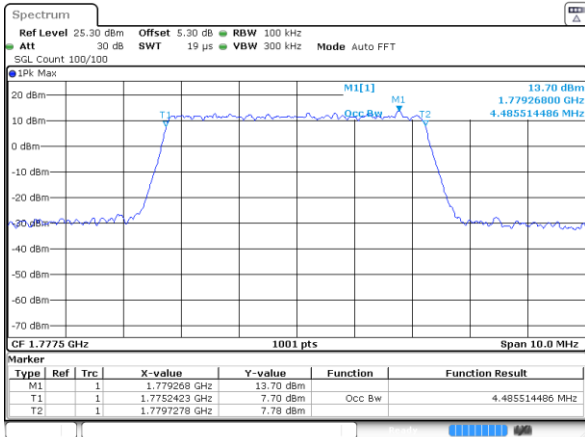


Date: 13 SEP 2020 02:53:20

Date: 13 SEP 2020 02:53:33

Highest Channel

Highest Channel



Date: 13 SEP 2020 02:54:45

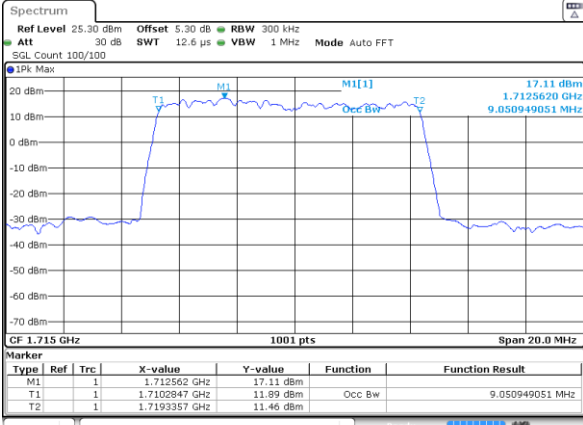
Date: 13 SEP 2020 02:54:58



FR1 n66 / 10MHz / DFT-S OFDM

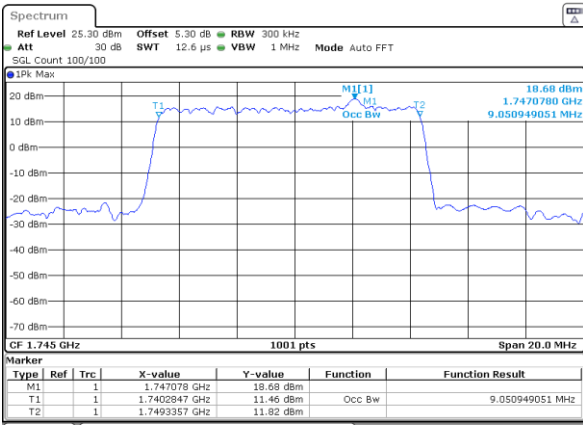
PI/2 BPSK

Lowest Channel



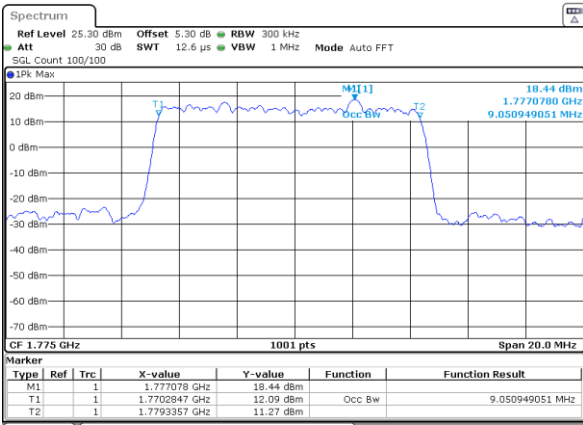
Date: 13 SEP 2020 02:55:40

Middle Channel



Date: 13 SEP 2020 02:57:09

Highest Channel



Date: 13 SEP 2020 02:58:37



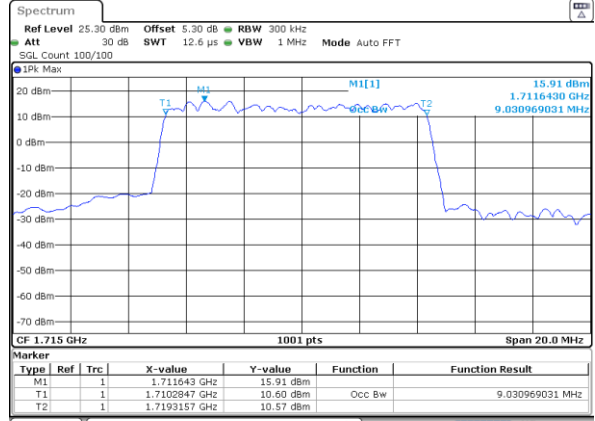
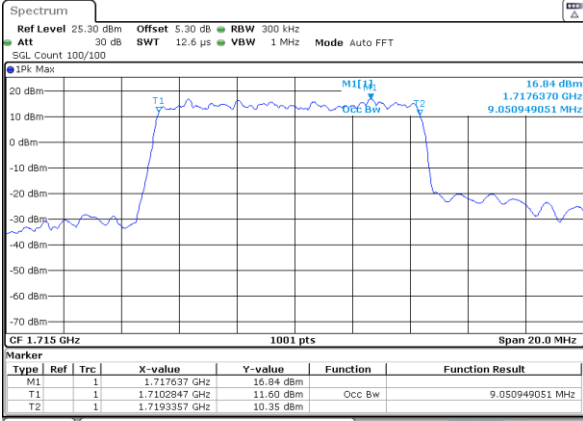
FR1 n66 / 10MHz / DFT-S OFDM

QPSK

16QAM

Lowest Channel

Lowest Channel

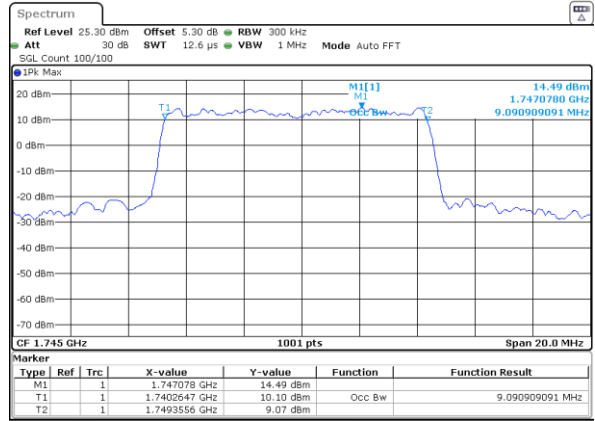
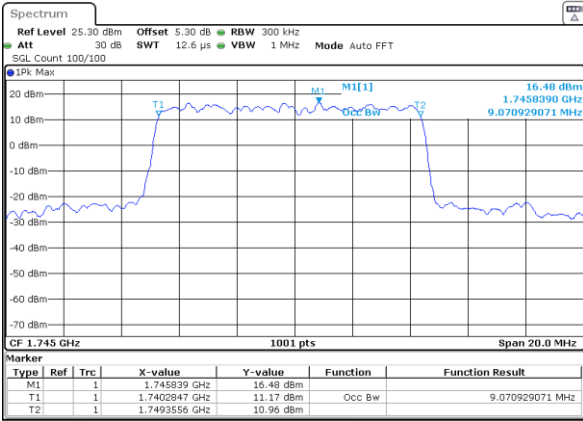


Date: 13 SEP 2020 02:55:53

Date: 13 SEP 2020 02:56:09

Middle Channel

Middle Channel

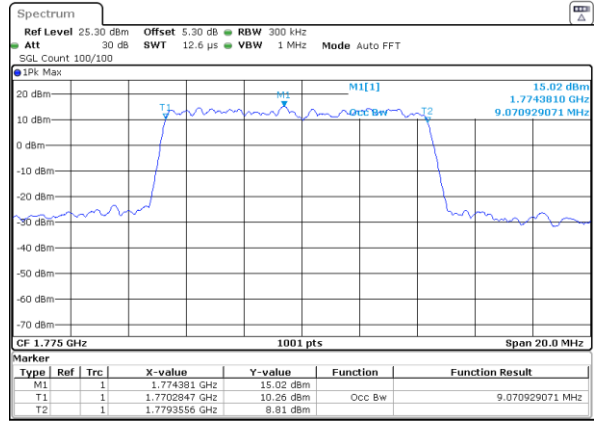
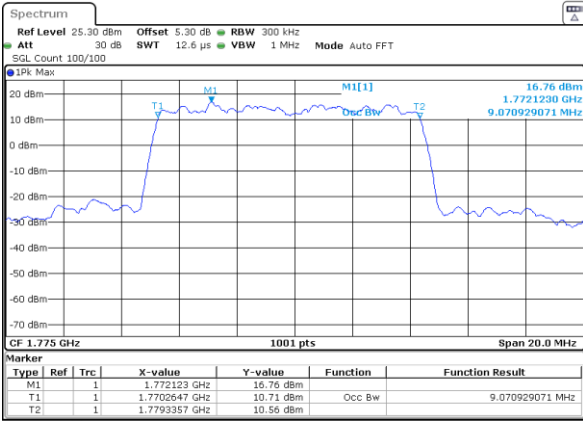


Date: 13 SEP 2020 02:57:24

Date: 13 SEP 2020 02:57:39

Highest Channel

Highest Channel



Date: 13 SEP 2020 02:58:50

Date: 13 SEP 2020 02:59:05



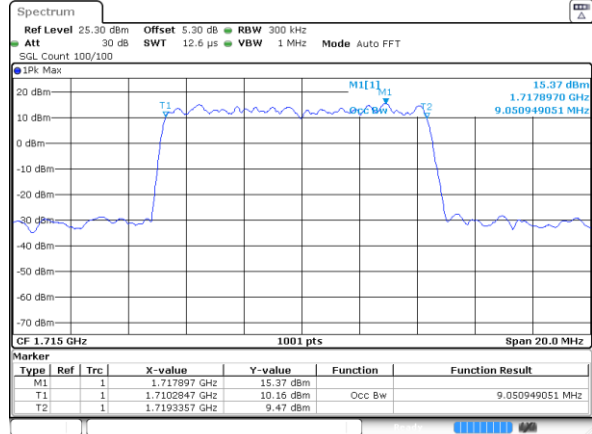
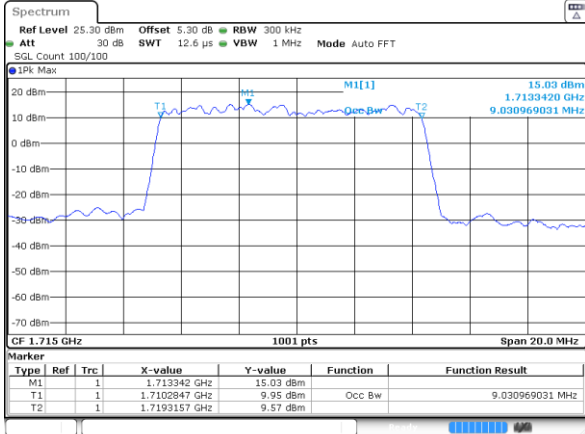
FR1 n66 / 10MHz / DFT-S OFDM

64QAM

256QAM

Lowest Channel

Lowest Channel

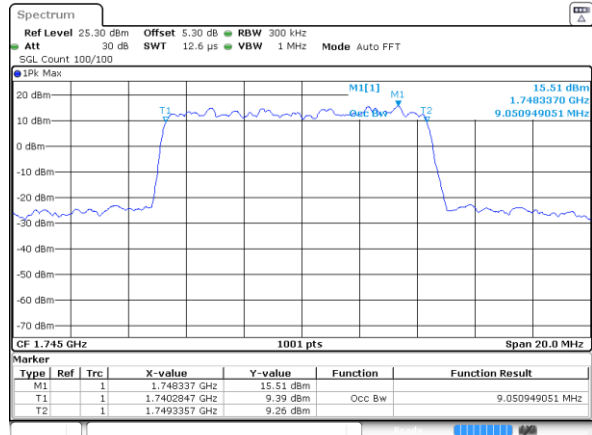
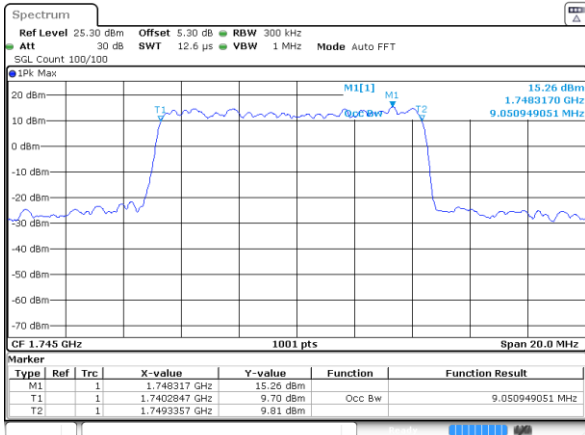


Date: 13 SEP 2020 02:56:23

Date: 13 SEP 2020 02:56:36

Middle Channel

Middle Channel

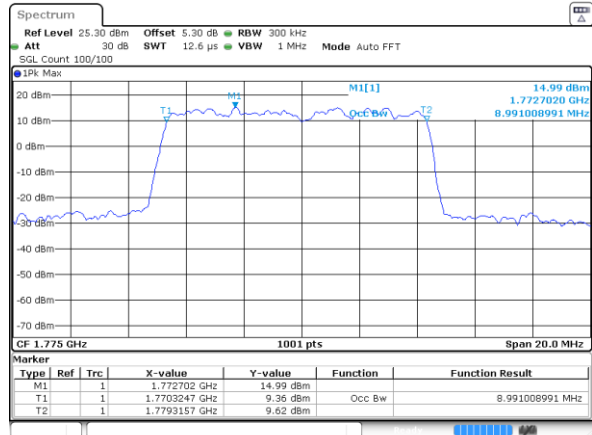
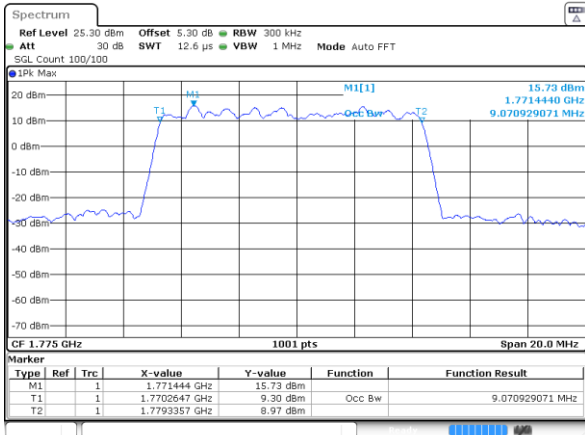


Date: 13 SEP 2020 02:57:54

Date: 13 SEP 2020 02:58:08

Highest Channel

Highest Channel



Date: 13 SEP 2020 02:59:19

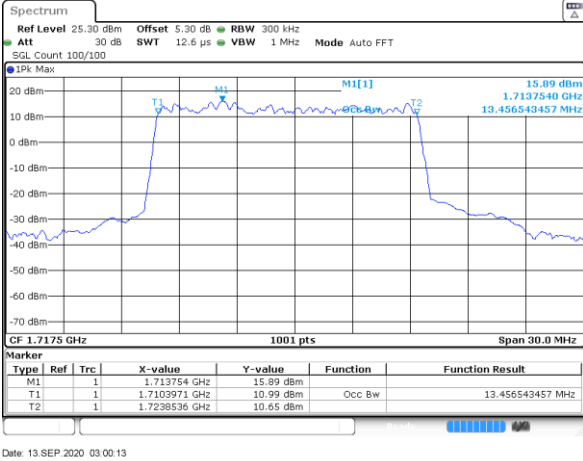
Date: 13 SEP 2020 02:59:32



FR1 n66 / 15MHz / DFT-S OFDM

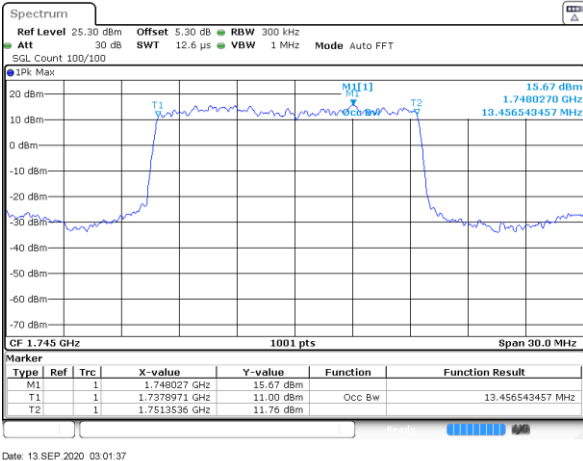
PI/2 BPSK

Lowest Channel



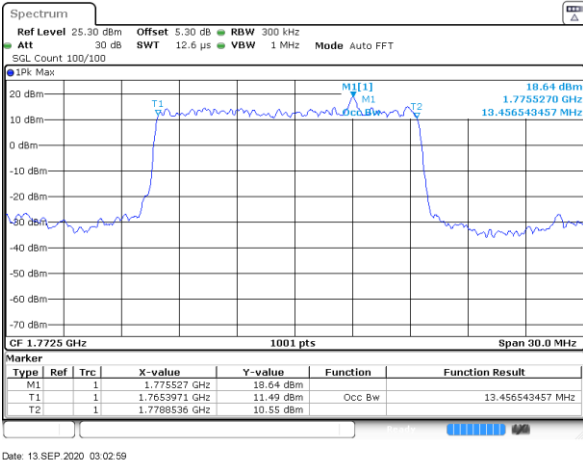
Date: 13.SEP.2020 03:00:13

Middle Channel



Date: 13.SEP.2020 03:01:37

Highest Channel



Date: 13.SEP.2020 03:02:59



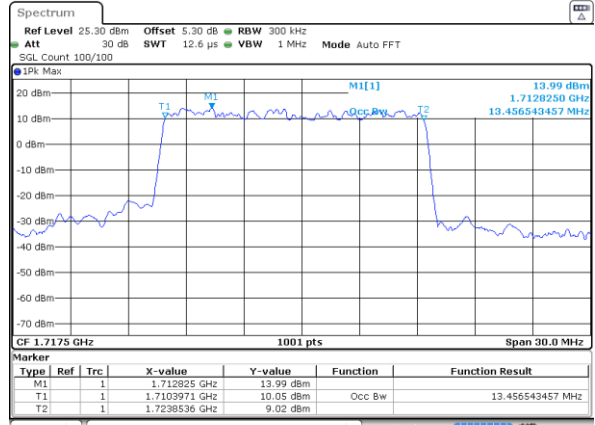
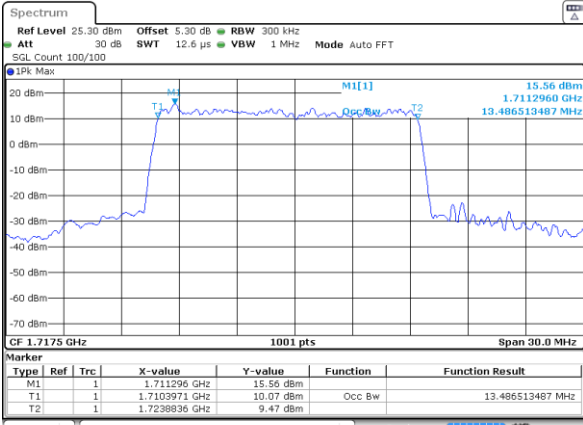
FR1 n66 / 15MHz / DFT-S OFDM

QPSK

16QAM

Lowest Channel

Lowest Channel

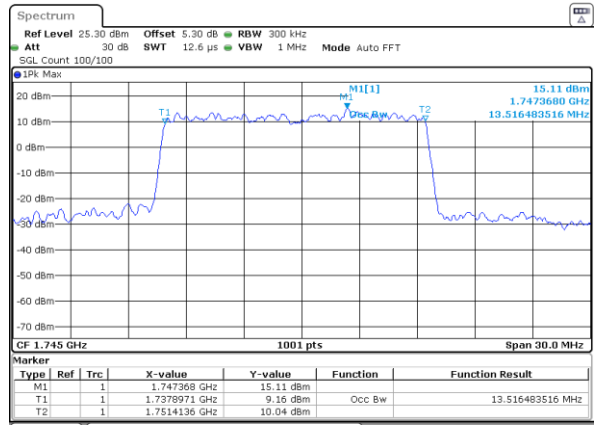
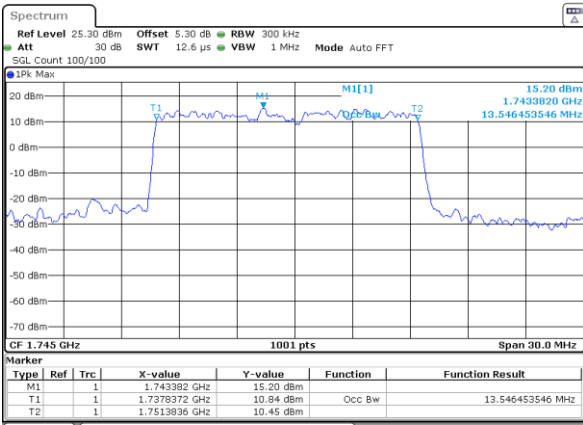


Date: 13 SEP 2020 03:00:28

Date: 13 SEP 2020 03:00:42

Middle Channel

Middle Channel

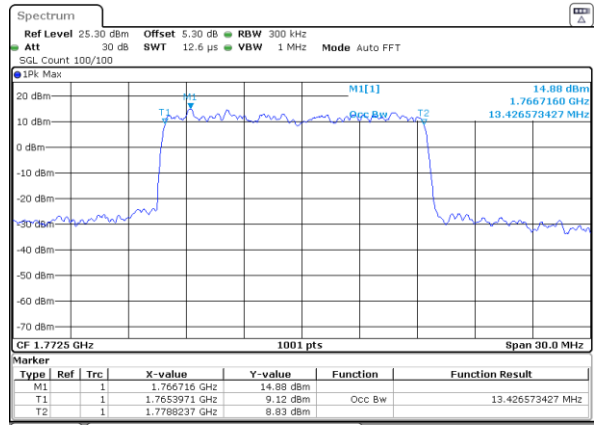
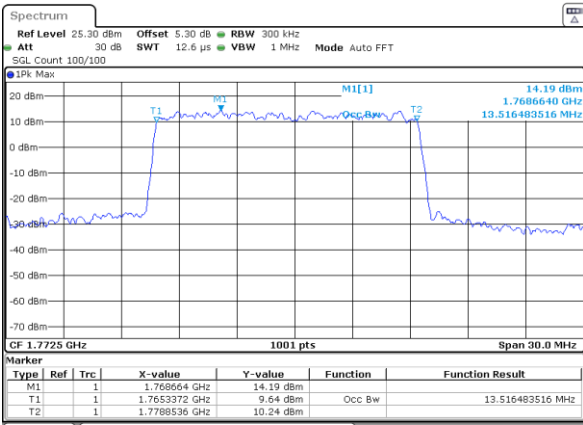


Date: 13 SEP 2020 03:01:51

Date: 13 SEP 2020 03:02:05

Highest Channel

Highest Channel



Date: 13 SEP 2020 03:03:14

Date: 13 SEP 2020 03:03:27



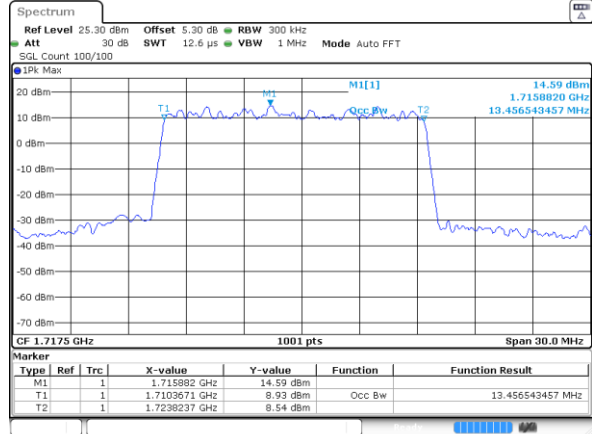
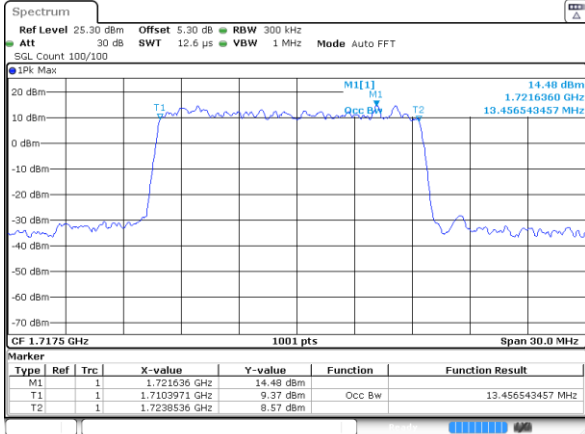
FR1 n66 / 15MHz / DFT-S OFDM

64QAM

256QAM

Lowest Channel

Lowest Channel

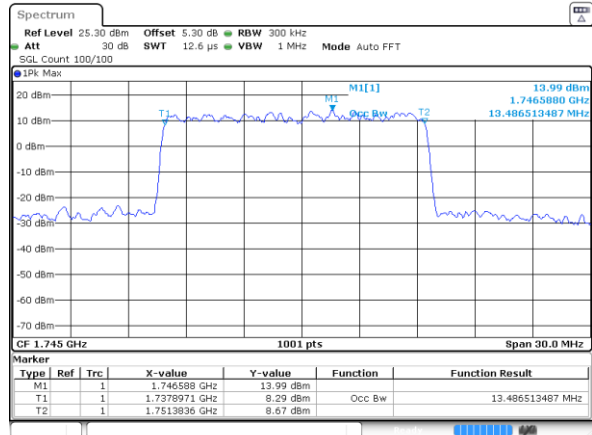
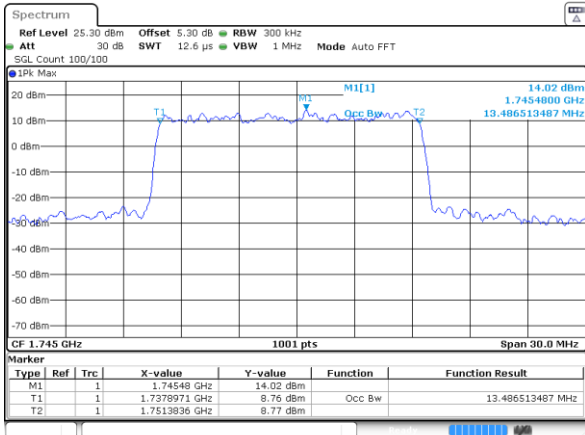


Date: 13 SEP 2020 03:00:57

Date: 13 SEP 2020 03:01:10

Middle Channel

Middle Channel

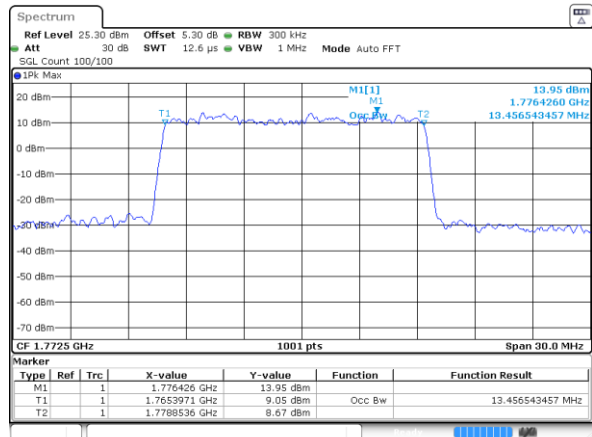
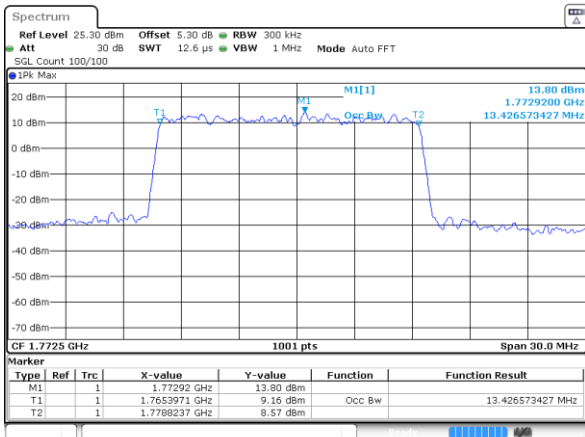


Date: 13 SEP 2020 03:02:18

Date: 13 SEP 2020 03:02:31

Highest Channel

Highest Channel



Date: 13 SEP 2020 03:03:41

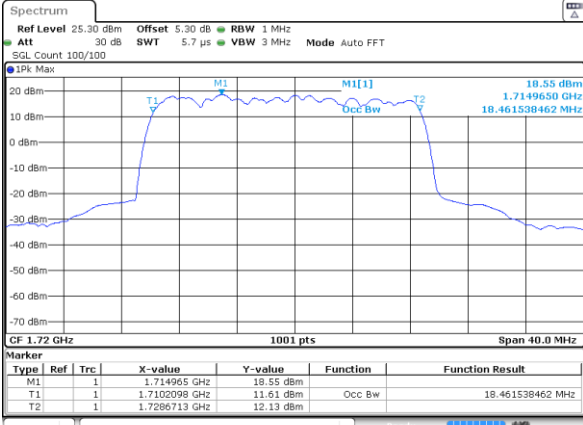
Date: 13 SEP 2020 03:03:55



FR1 n66 / 20MHz / DFT-S OFDM

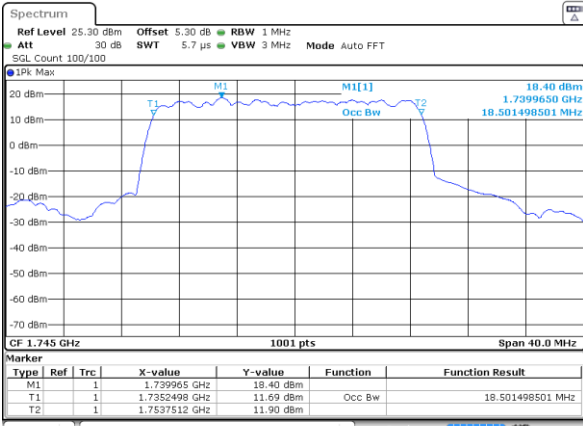
PI/2 BPSK

Lowest Channel



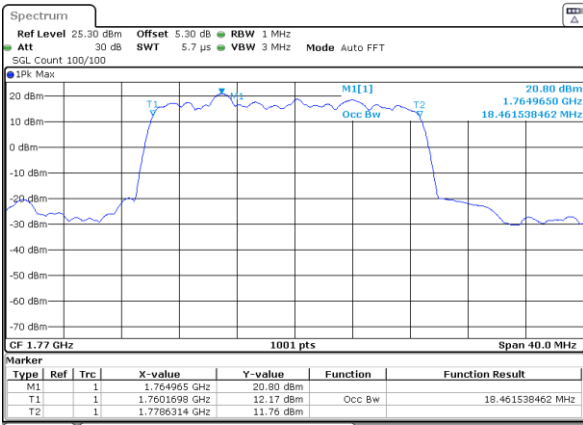
Date: 13.SEP.2020 03:04:44

Middle Channel



Date: 13.SEP.2020 03:07:40

Highest Channel



Date: 13.SEP.2020 03:10:38



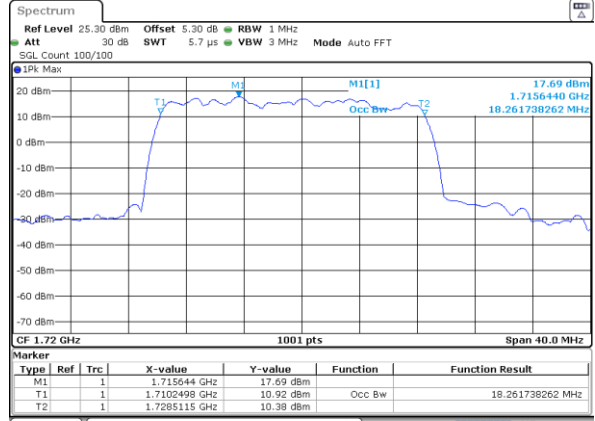
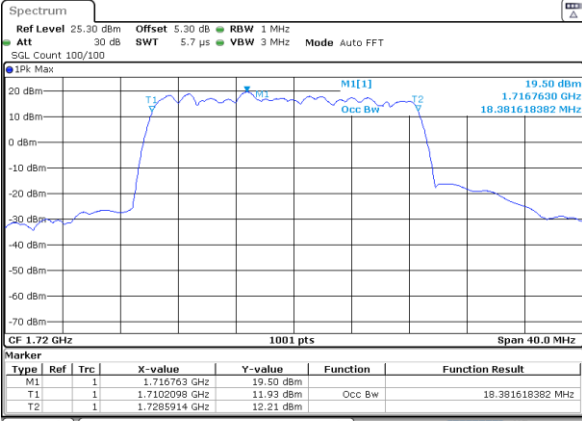
FR1 n66 / 20MHz / DFT-S OFDM

QPSK

16QAM

Lowest Channel

Lowest Channel

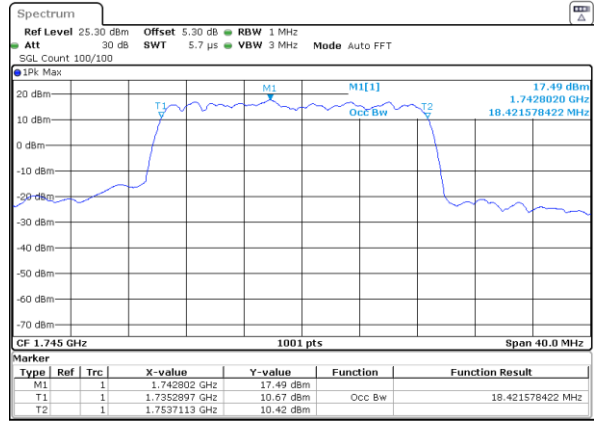
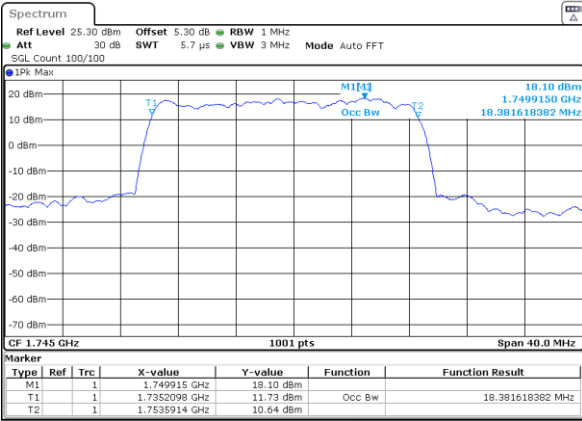


Date: 13 SEP 2020 03:05:05

Date: 13 SEP 2020 03:05:19

Middle Channel

Middle Channel

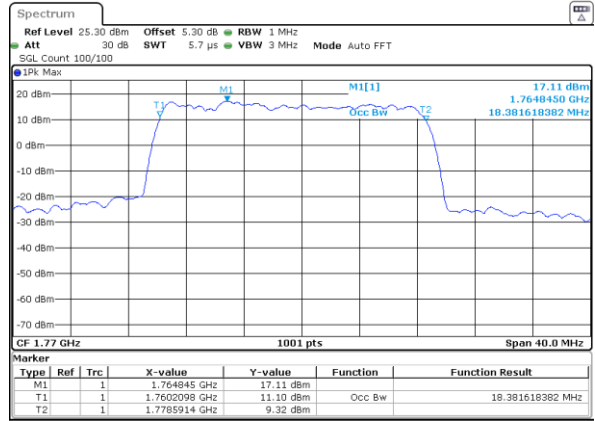
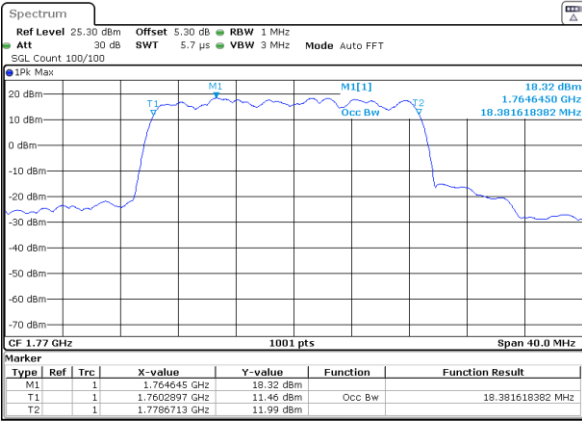


Date: 13 SEP 2020 03:08:02

Date: 13 SEP 2020 03:08:23

Highest Channel

Highest Channel



Date: 13 SEP 2020 03:10:58

Date: 13 SEP 2020 03:11:18



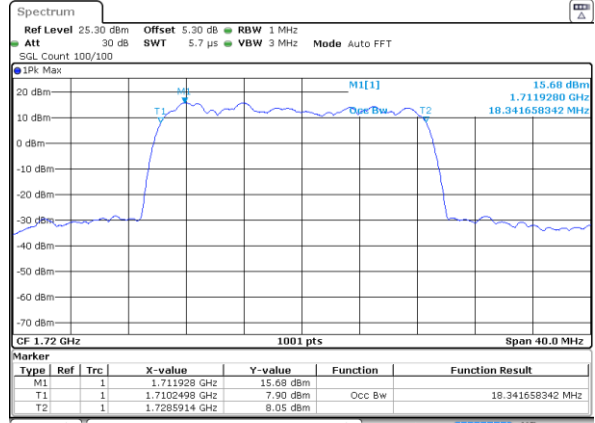
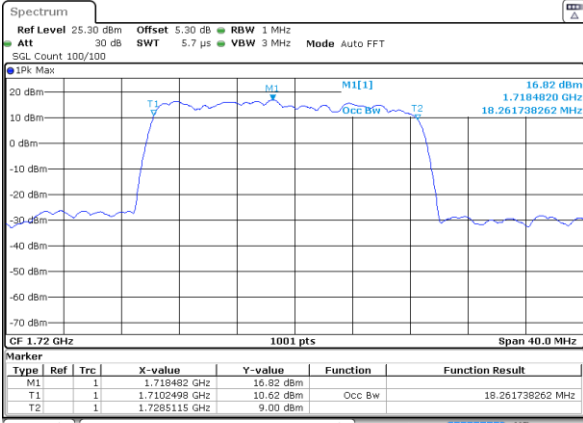
FR1 n66 / 20MHz / DFT-S OFDM

64QAM

256QAM

Lowest Channel

Lowest Channel

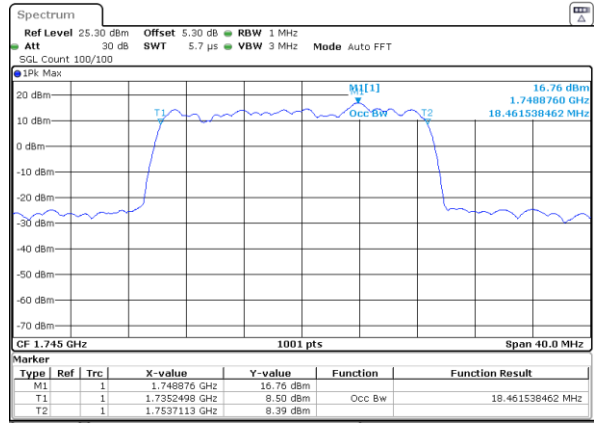
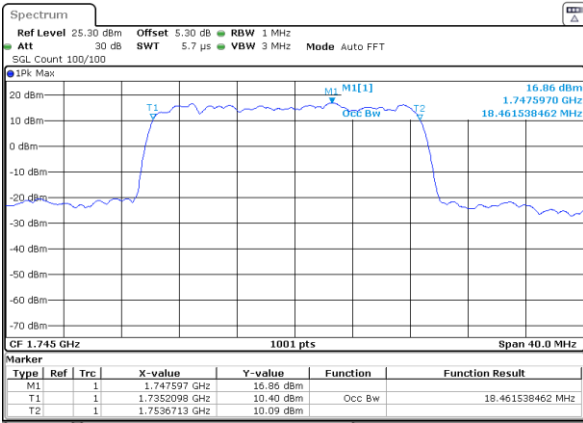


Date: 13 SEP 2020 03:05:48

Date: 13 SEP 2020 03:06:15

Middle Channel

Middle Channel

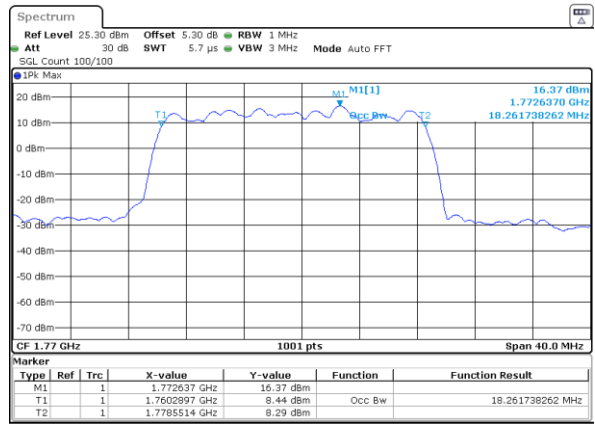
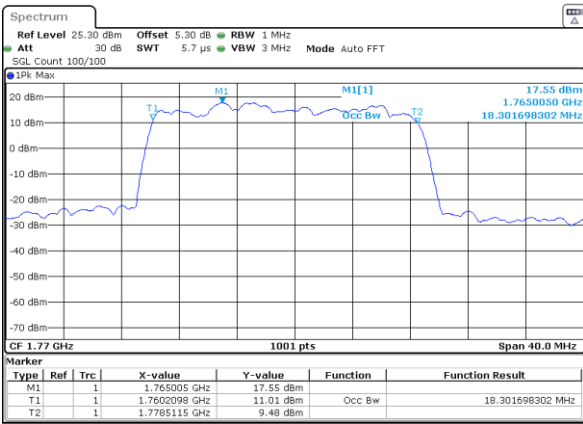


Date: 13 SEP 2020 03:08:43

Date: 13 SEP 2020 03:09:05

Highest Channel

Highest Channel



Date: 13 SEP 2020 03:11:39

Date: 13 SEP 2020 03:12:05

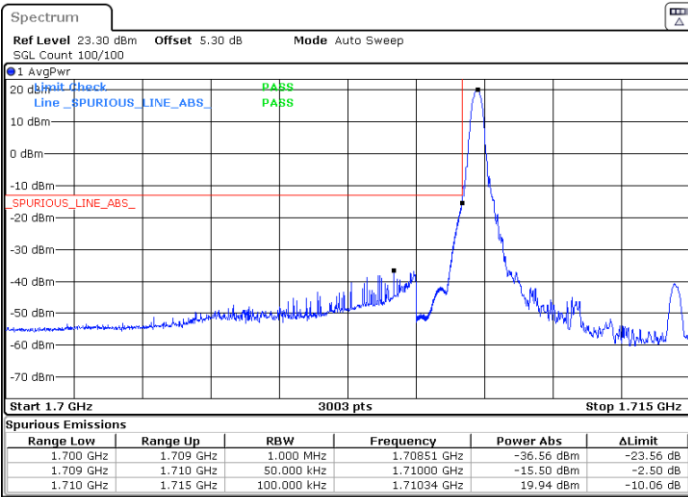


Conducted Band Edge

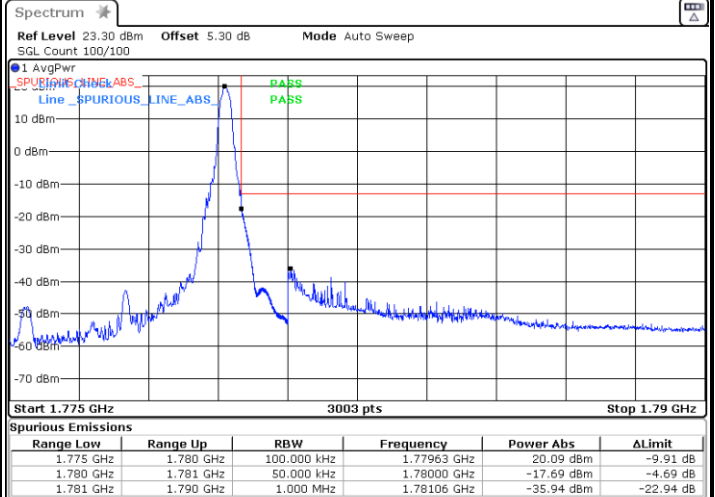
FR1 n66 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



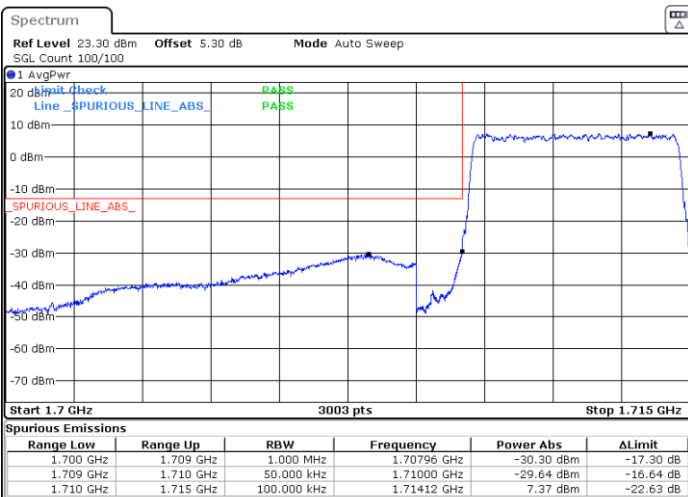
Date: 13.SEP.2020 06:00:42



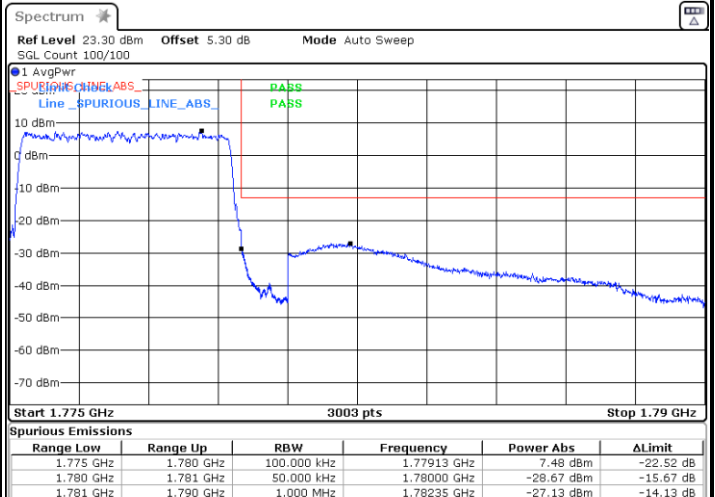
Date: 13.SEP.2020 06:05:10

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.SEP.2020 05:58:39



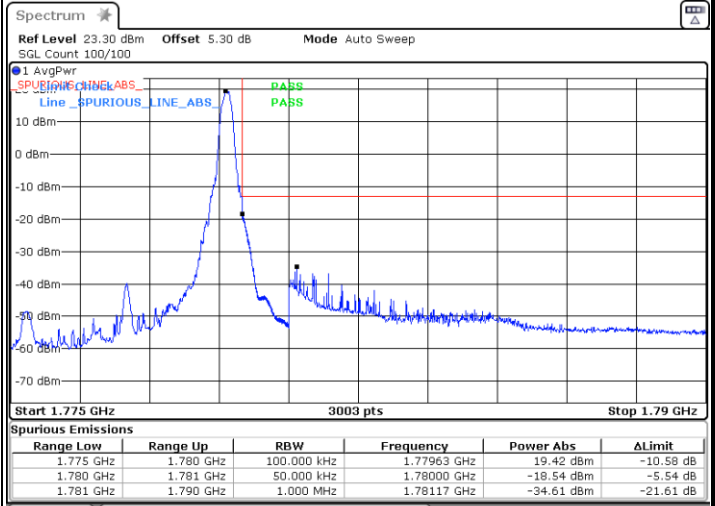
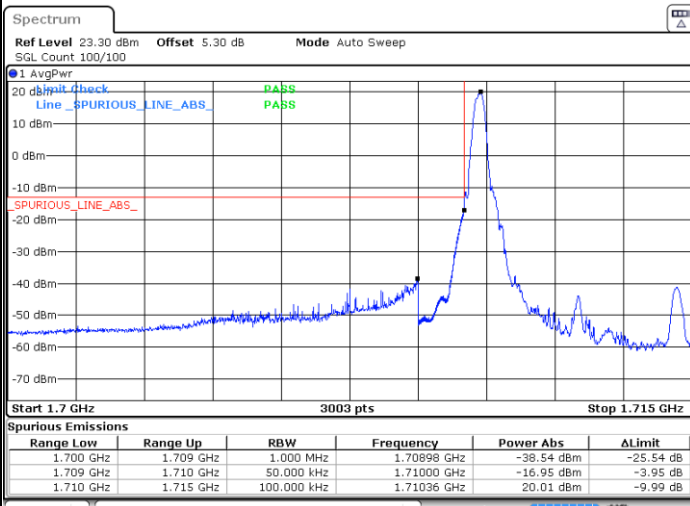
Date: 13.SEP.2020 06:03:00



FR1 n66 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

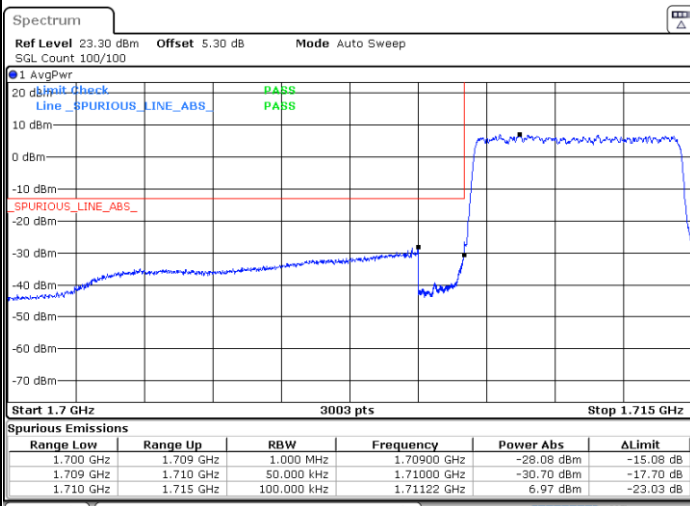


Date: 13.SEP.2020 06:01:03

Date: 13.SEP.2020 06:05:34

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.SEP.2020 05:59:18

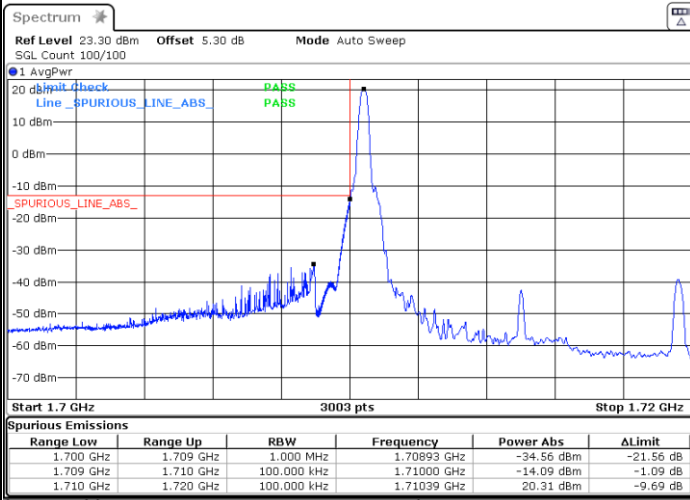
Date: 13.SEP.2020 06:03:26



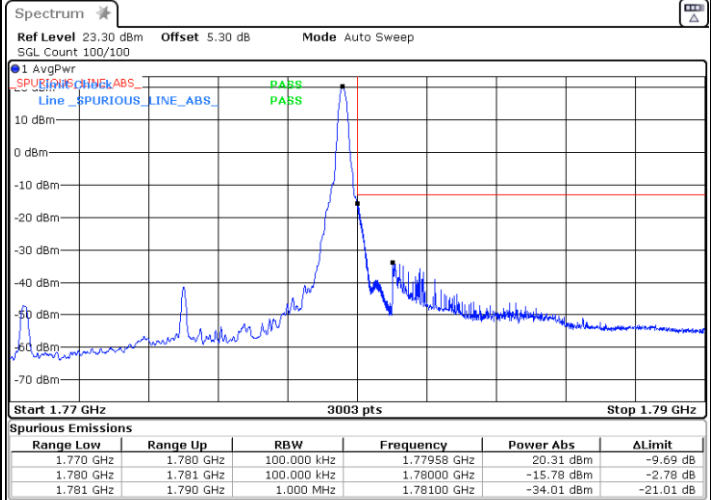
FR1 n66 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



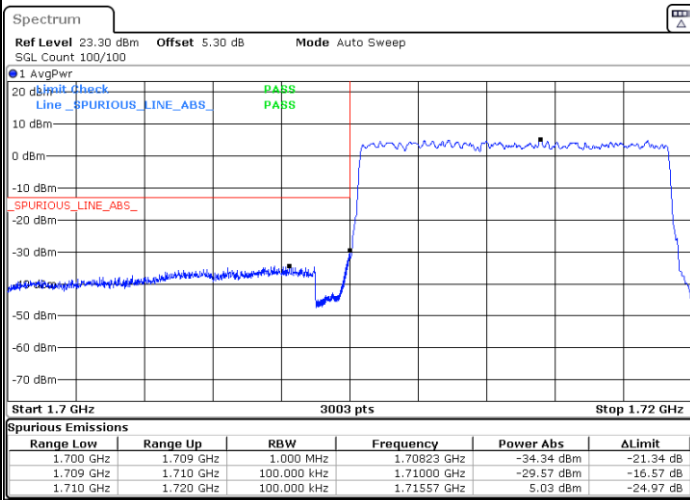
Date: 13.SEP.2020 06:09:05



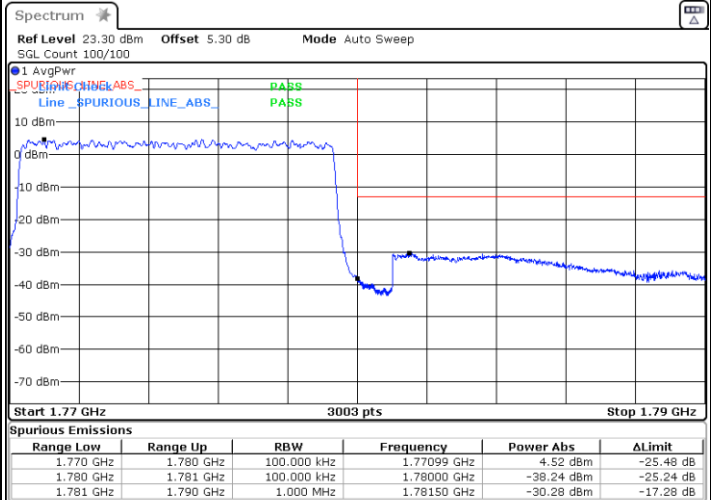
Date: 13.SEP.2020 06:11:53

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.SEP.2020 06:07:39



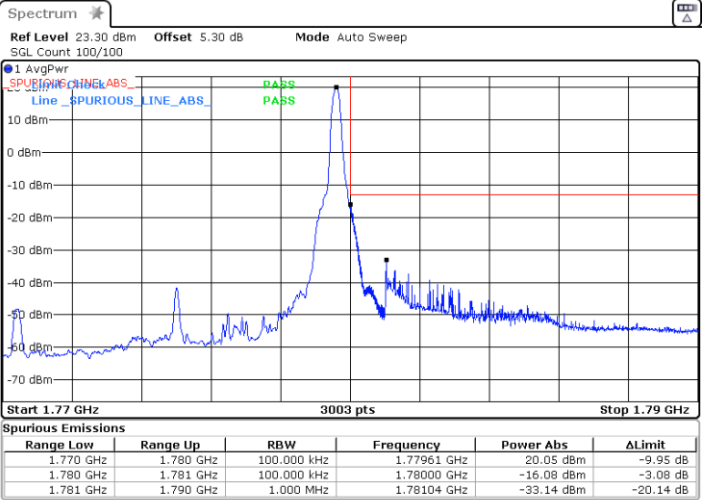
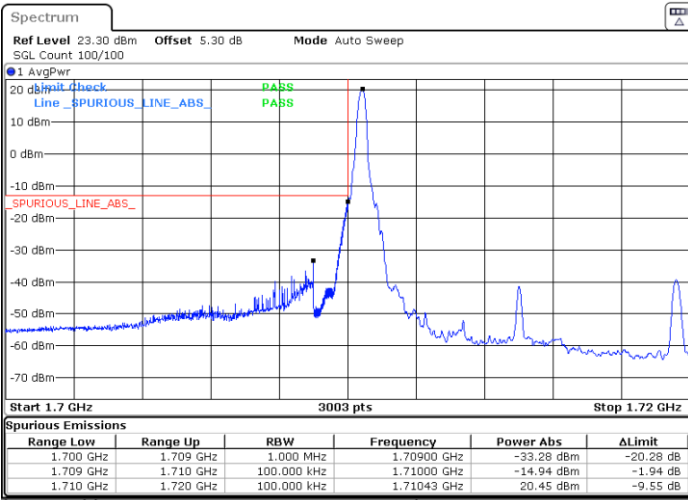
Date: 13.SEP.2020 06:10:31



FR1 n66 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

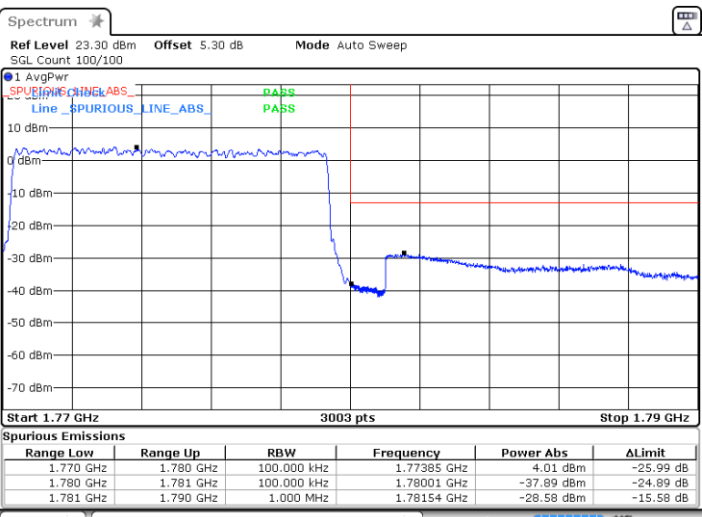
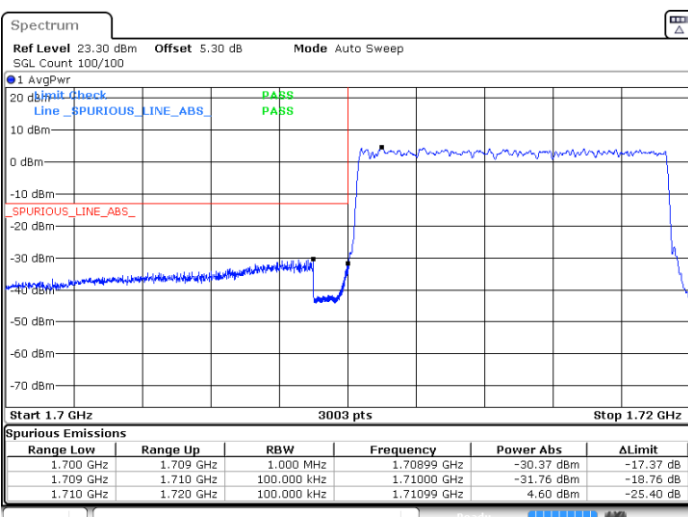


Date: 13.SEP.2020 06:09:17

Date: 13.SEP.2020 06:12:07

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.SEP.2020 06:07:52

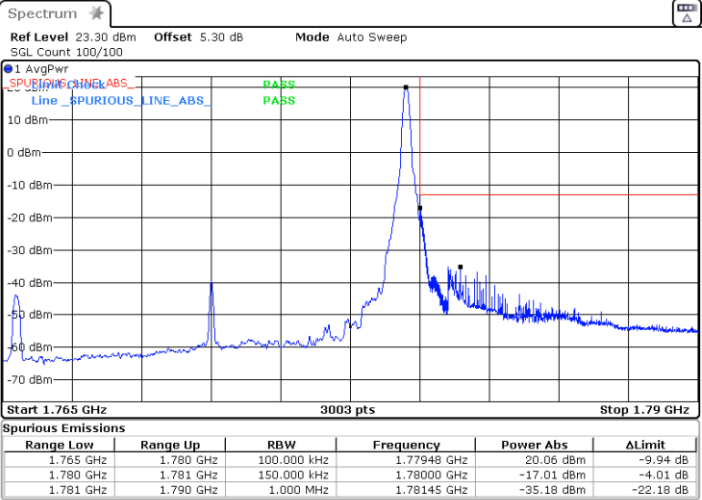
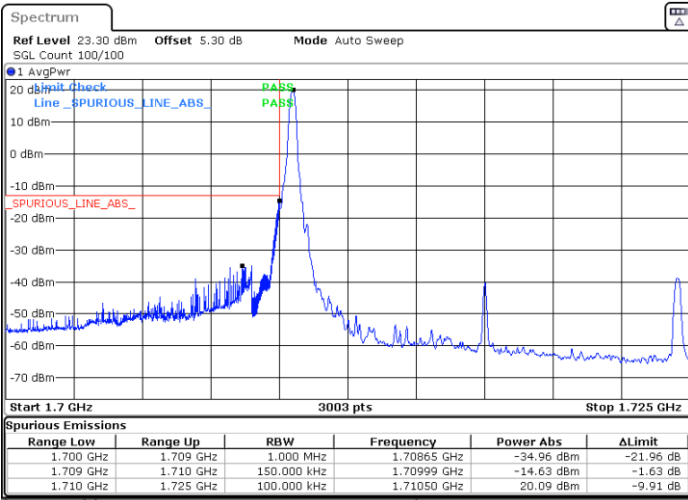
Date: 13.SEP.2020 06:10:47



FR1 n66 / 15MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

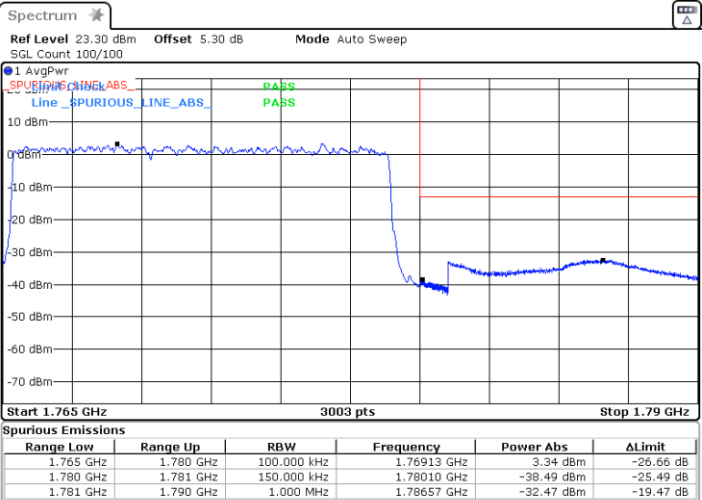
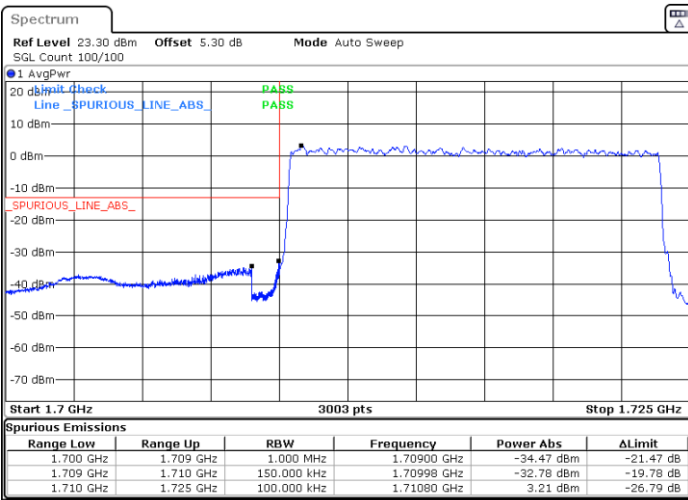


Date: 13.SEP.2020 06:14:48

Date: 13.SEP.2020 06:17:25

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.SEP.2020 06:13:42

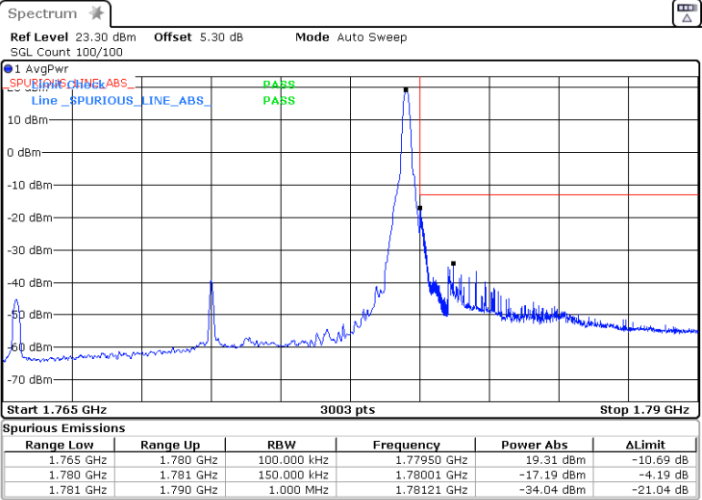
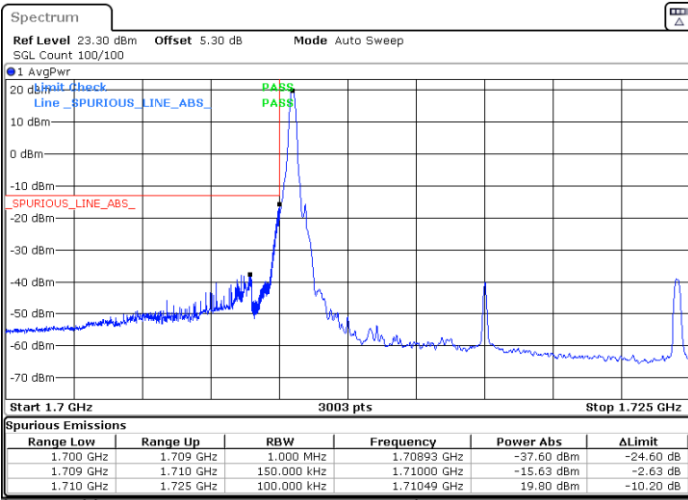
Date: 13.SEP.2020 06:16:06



FR1 n66 / 15MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

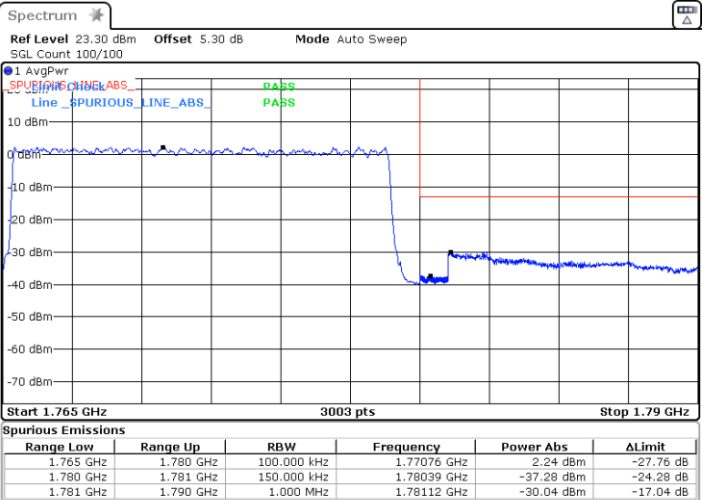
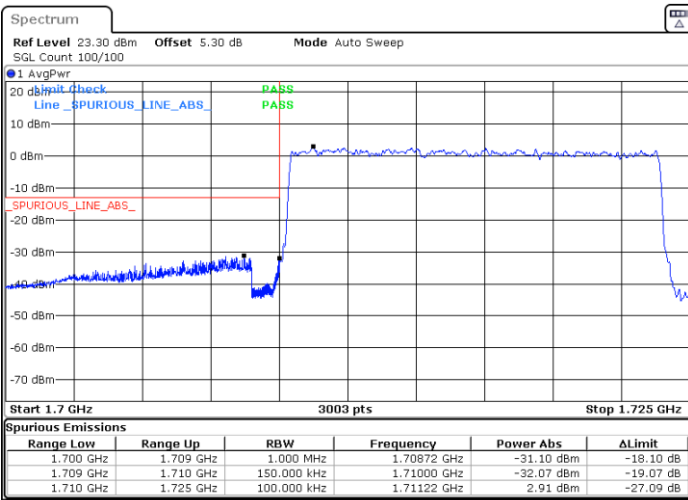


Date: 13.SEP.2020 06:14:59

Date: 13.SEP.2020 06:17:40

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.SEP.2020 06:13:57

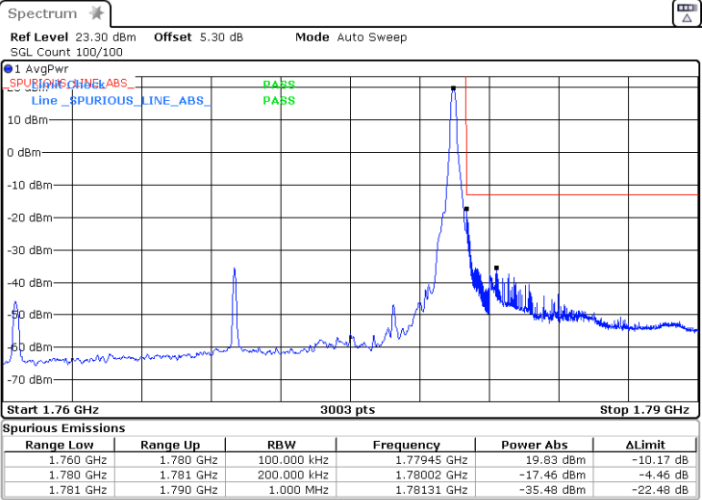
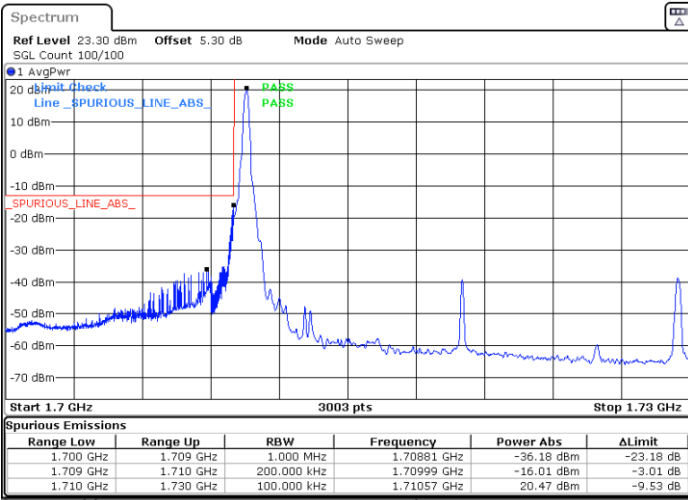
Date: 13.SEP.2020 06:16:21



FR1 n66 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

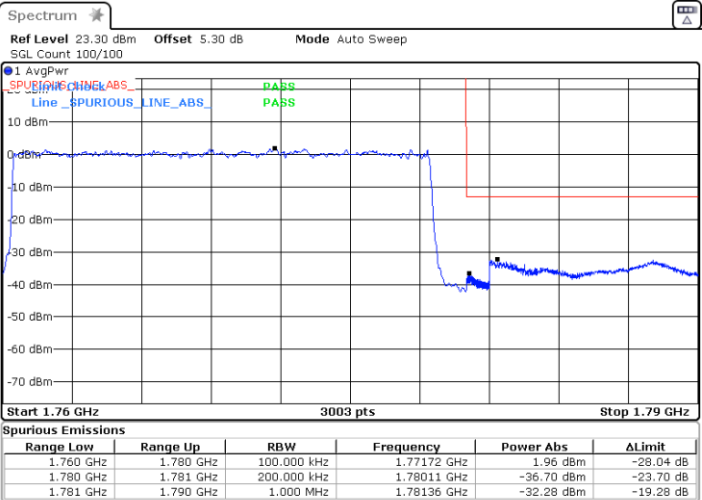
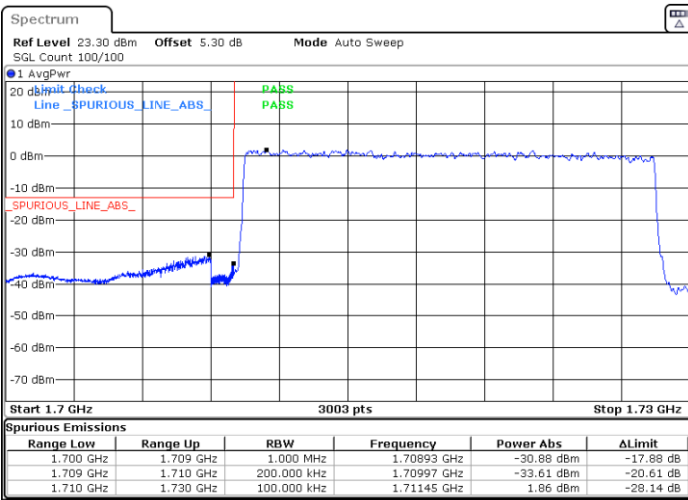


Date: 13.SEP.2020 06:20:39

Date: 13.SEP.2020 06:24:13

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.SEP.2020 06:19:18

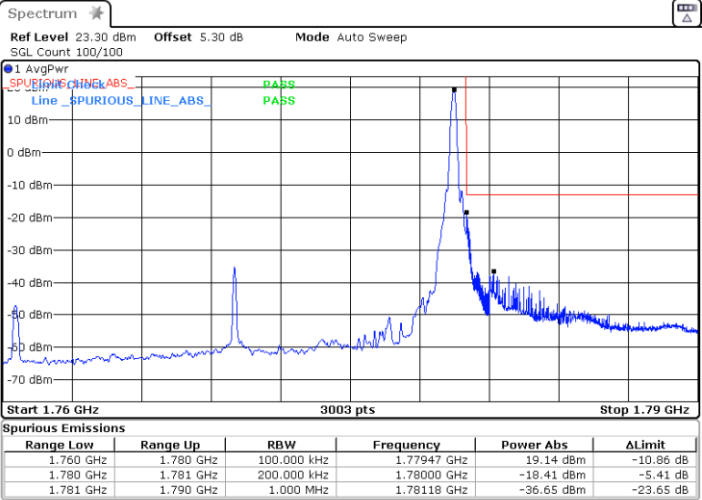
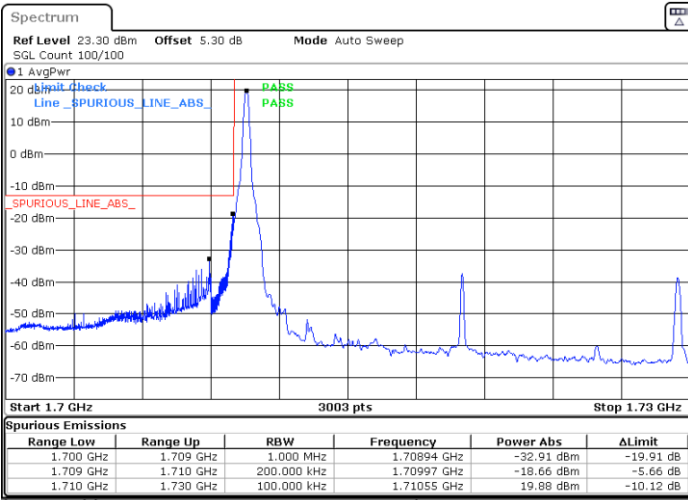
Date: 13.SEP.2020 06:22:22



FR1 n66 / 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

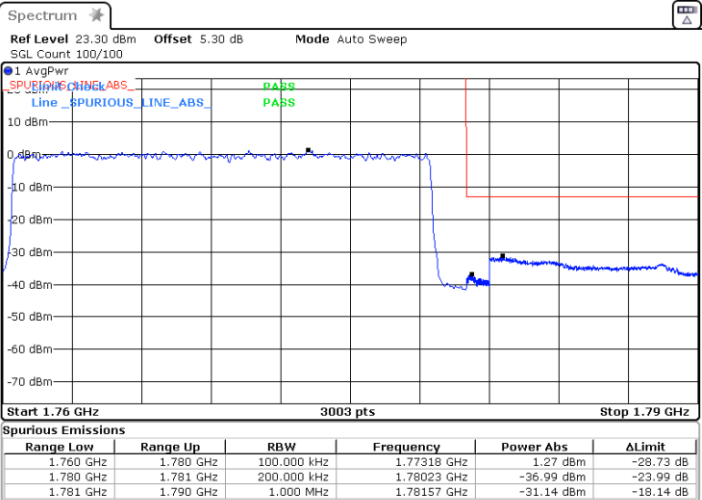
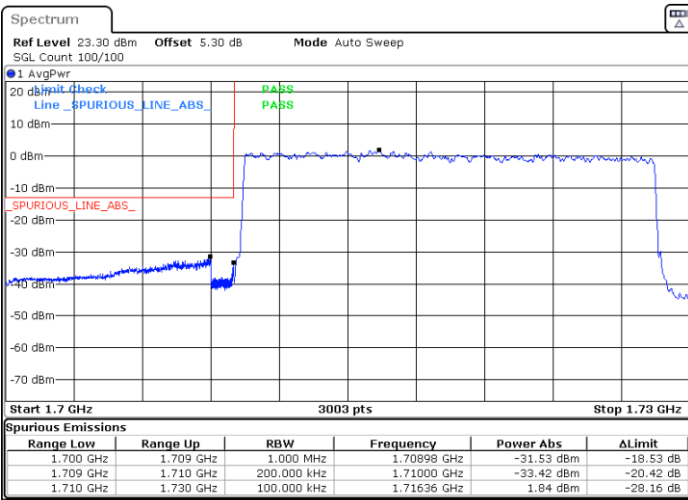


Date: 13.SEP.2020 06:20:50

Date: 13.SEP.2020 06:24:28

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.SEP.2020 06:19:41

Date: 13.SEP.2020 06:22:38

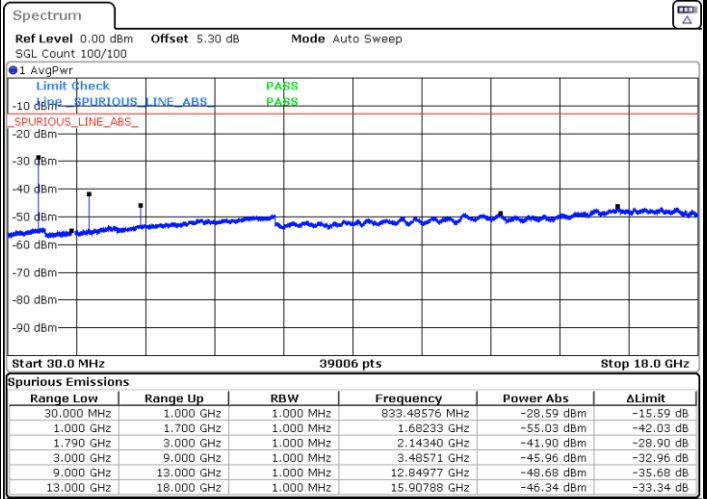
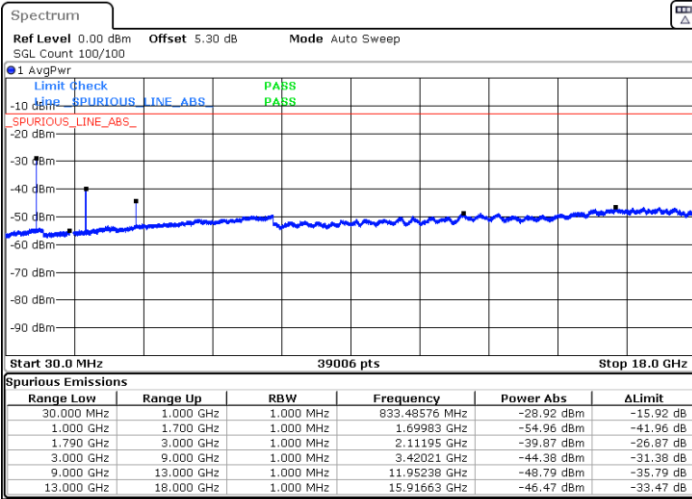


Conducted Spurious Emission

FR1 n66 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel / 1RB1

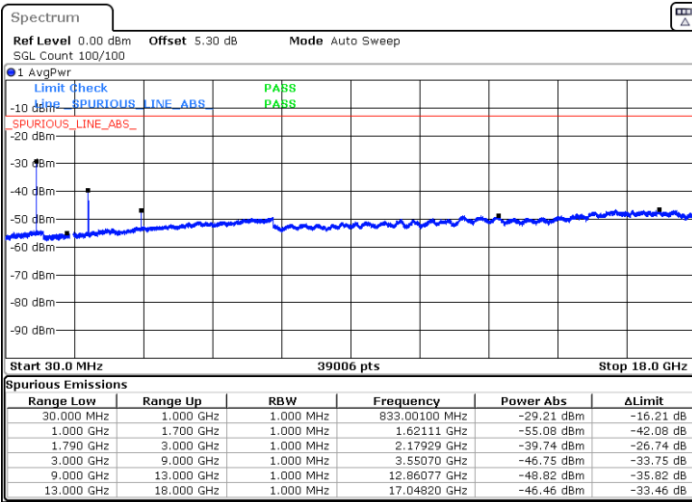
Middle Channel / 1RB1



Date: 13 SEP. 2020 06:28:19

Date: 13 SEP. 2020 06:47:25

Highest Channel / 1RB1



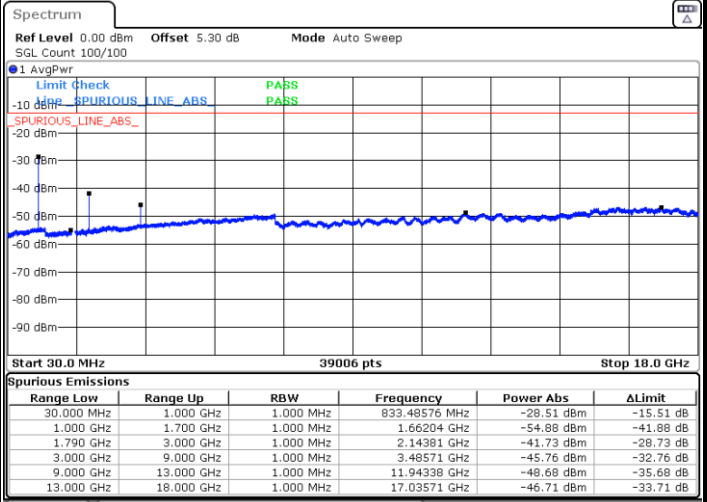
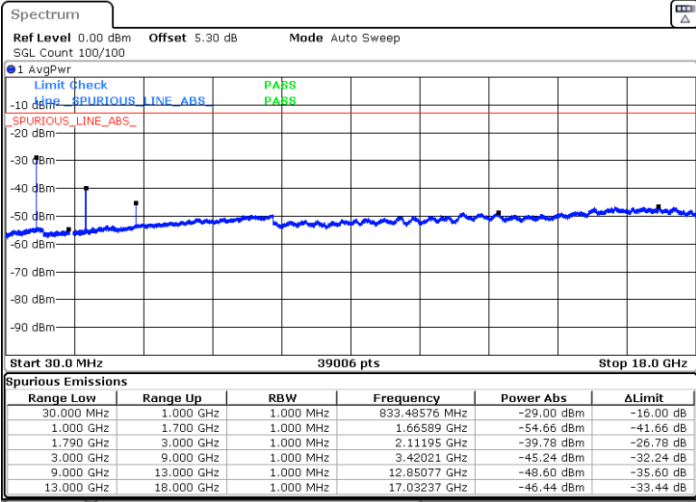
Date: 13 SEP. 2020 06:51:41



FR1 n66 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

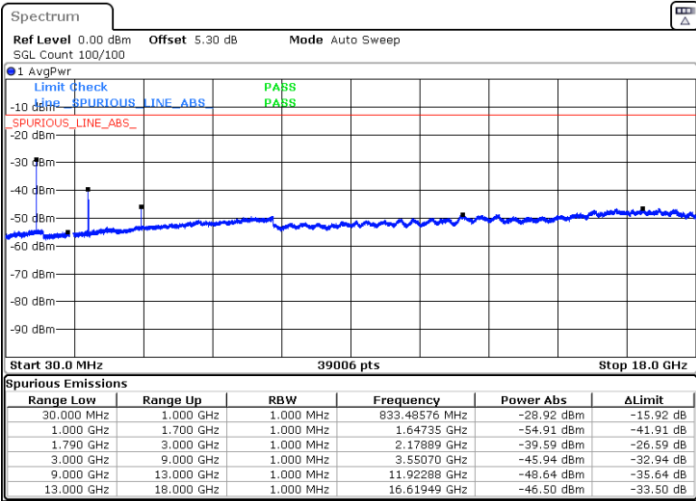
Middle Channel / 1RB1



Date: 13 SEP 2020 06:28:58

Date: 13 SEP 2020 06:48:12

Highest Channel / 1RB1



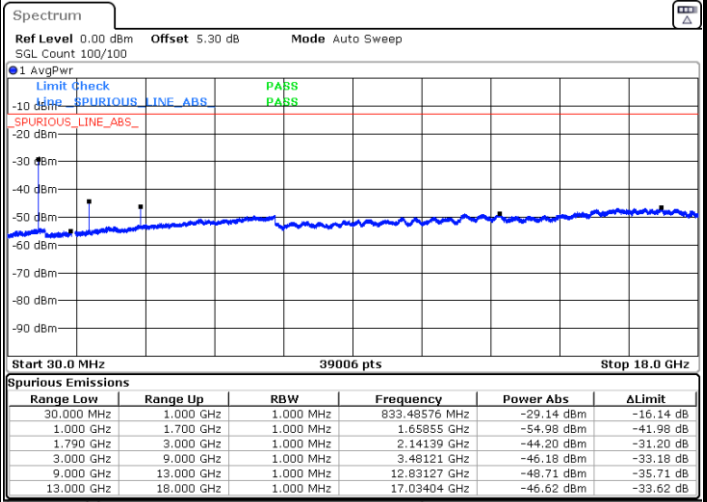
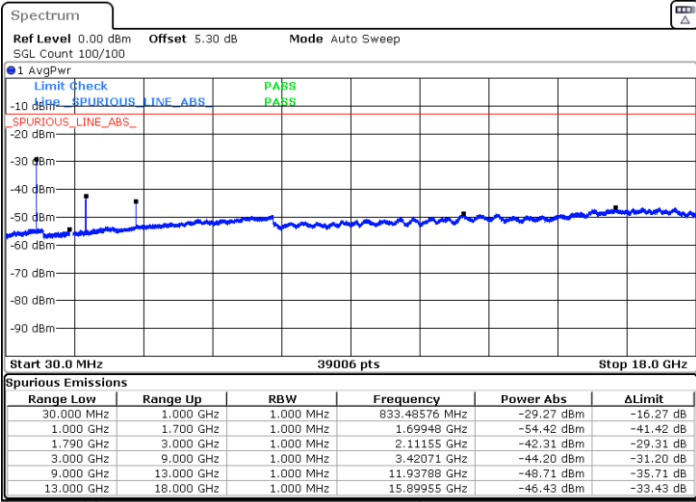
Date: 13 SEP 2020 06:52:26



FR1 n66 / 10MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel / 1RB1

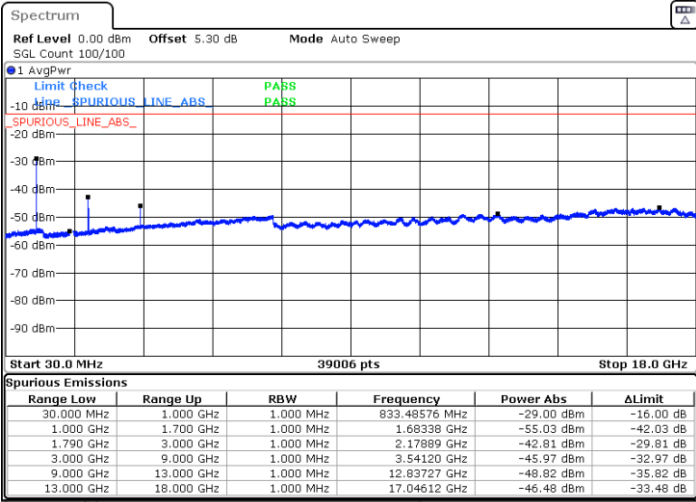
Middle Channel / 1RB1



Date: 13 SEP 2020 06:55:58

Date: 13 SEP 2020 07:00:25

Highest Channel / 1RB1



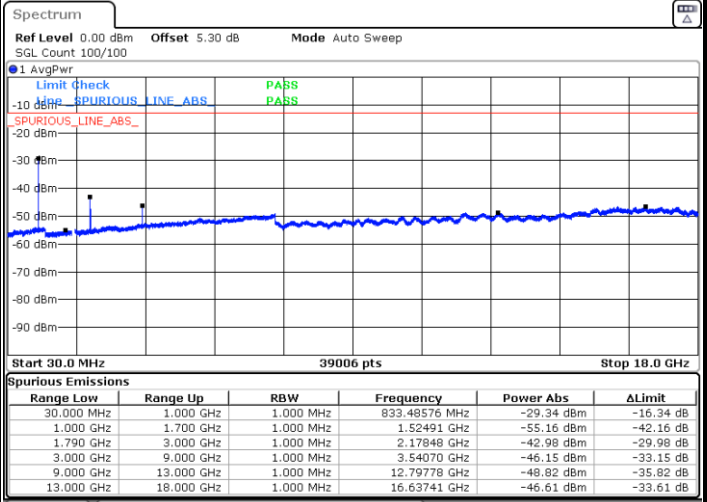
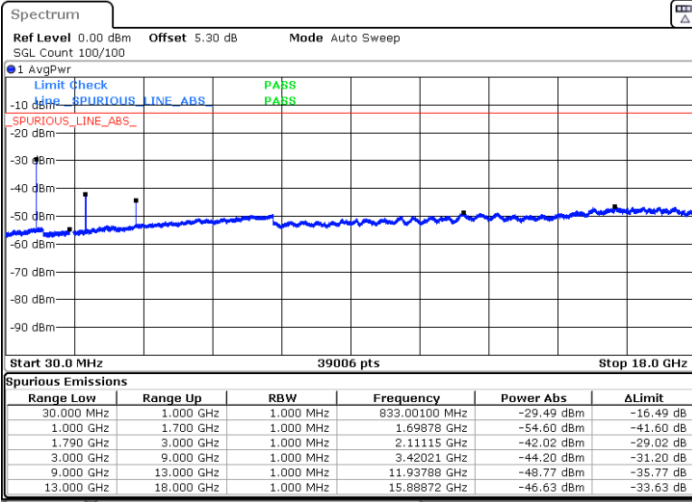
Date: 13 SEP 2020 07:11:33



FR1 n66 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

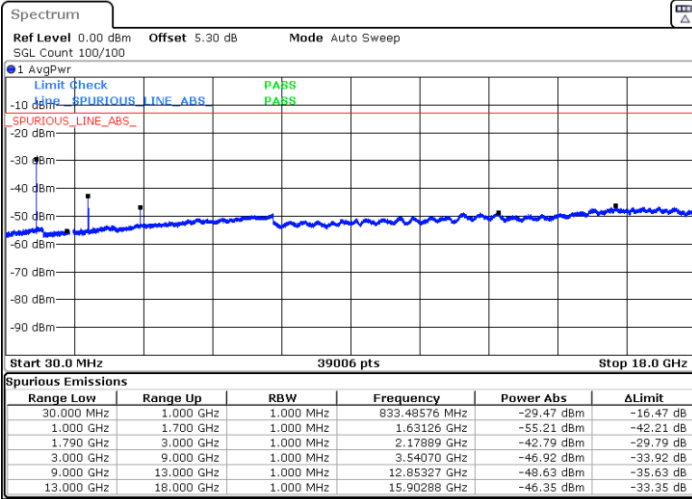
Middle Channel / 1RB1



Date: 13 SEP 2020 06:56:42

Date: 13 SEP 2020 07:14:05

Highest Channel / 1RB1



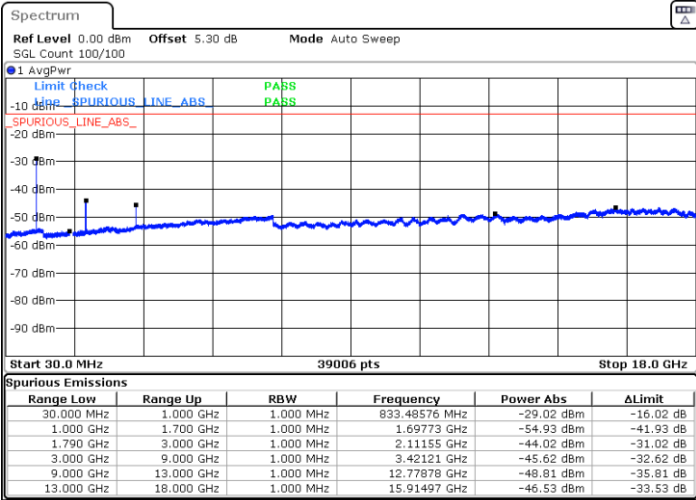
Date: 13 SEP 2020 07:17:42



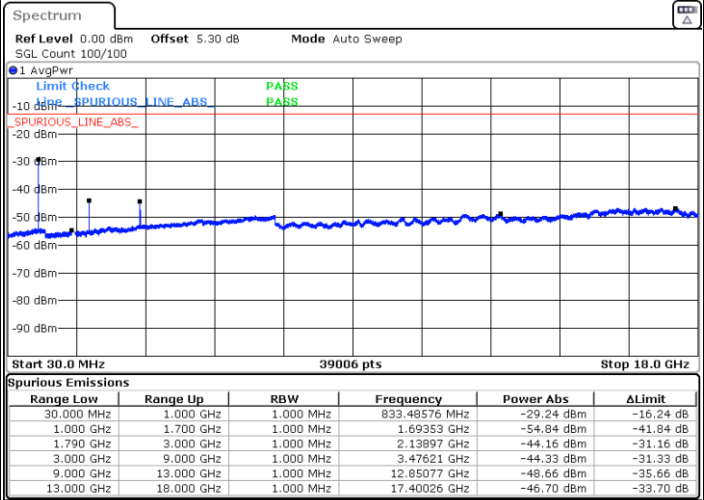
FR1 n66 / 15MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

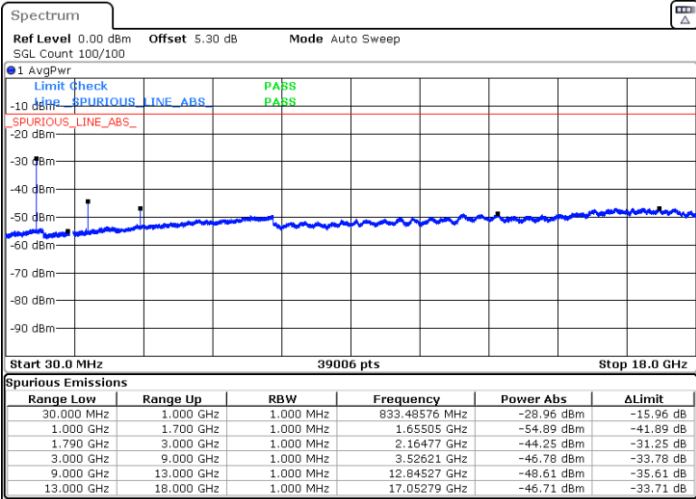


Date: 13.SEP.2020 07:21:02



Date: 13.SEP.2020 07:24:39

Highest Channel / 1RB1

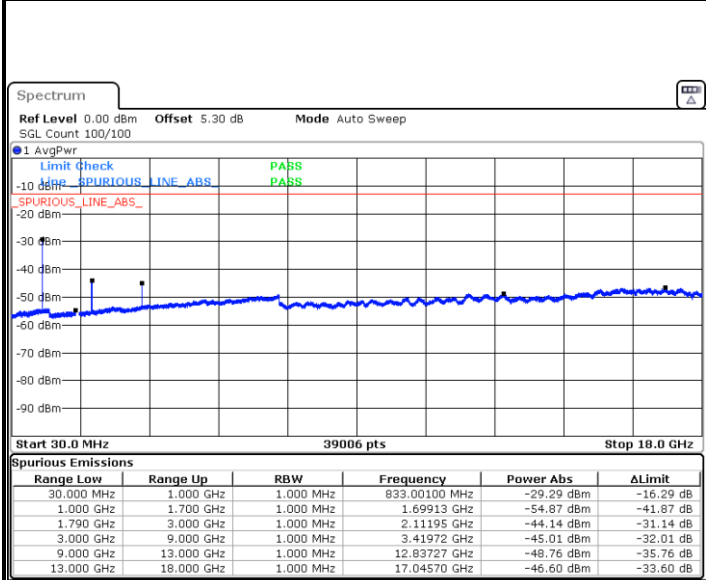


Date: 13.SEP.2020 07:29:13



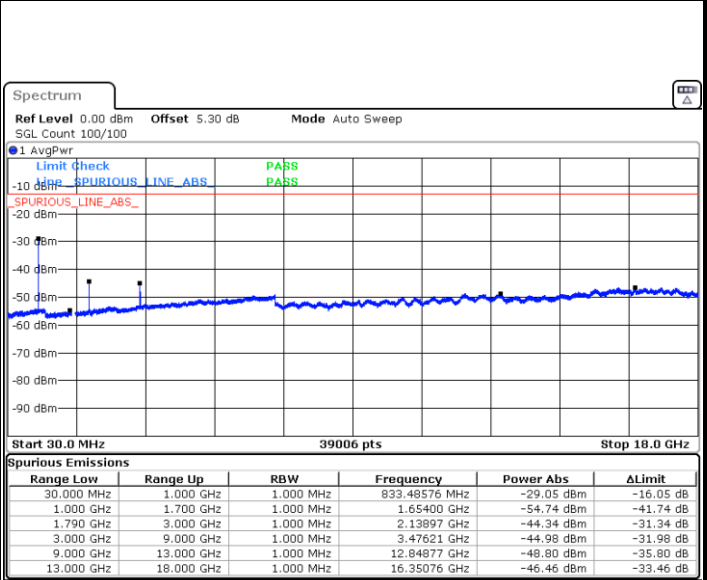
FR1 n66 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



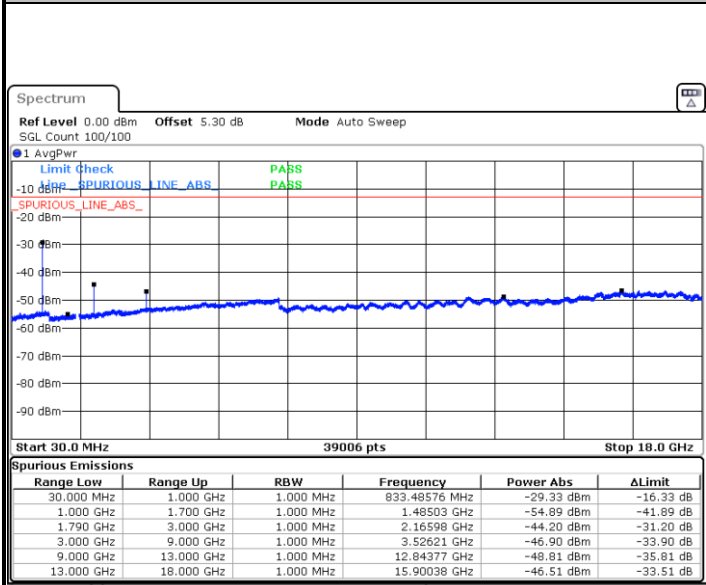
Date: 13 SEP.2020 07:21:41

Middle Channel / 1RB1



Date: 13 SEP.2020 07:25:29

Highest Channel / 1RB1



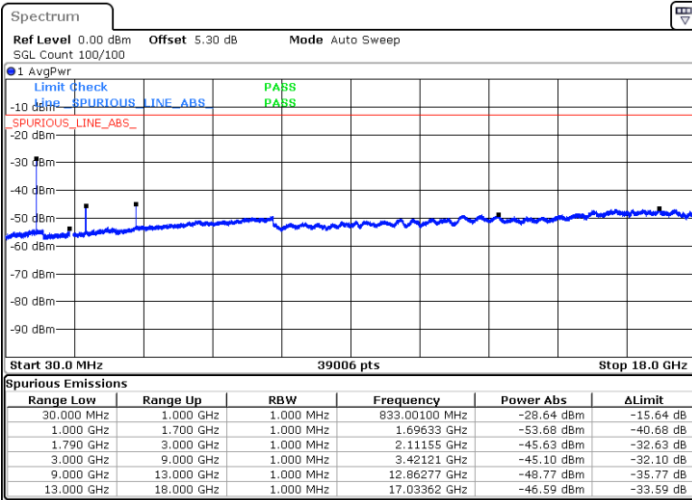
Date: 13 SEP.2020 07:30:11



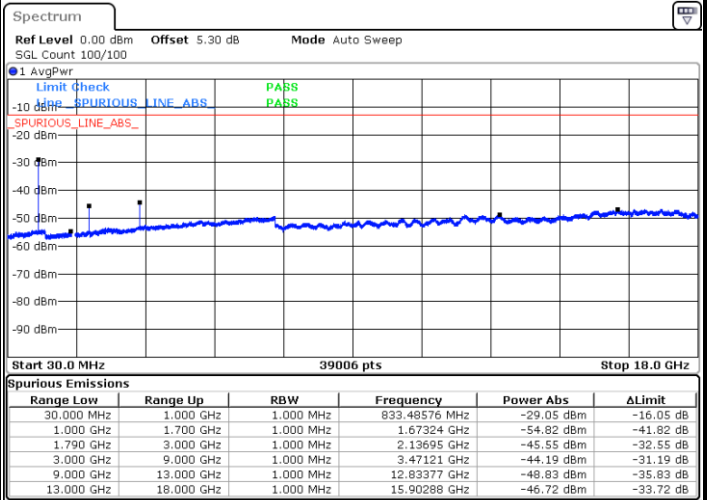
FR1 n66 / 20MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

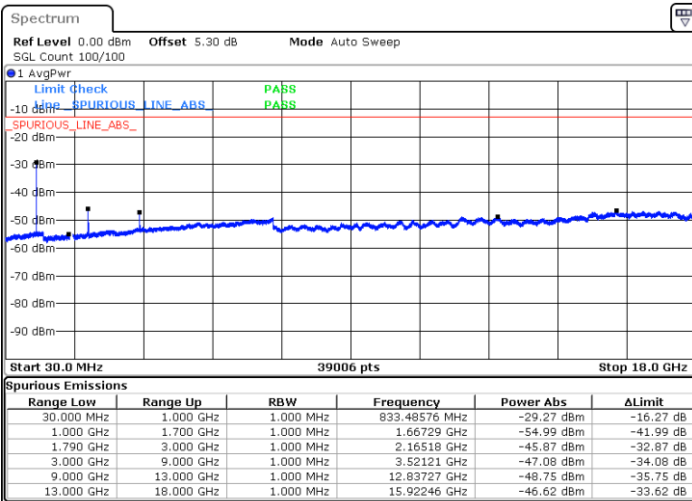


Date: 13 SEP. 2020 22:13:03



Date: 13 SEP. 2020 22:17:12

Highest Channel / 1RB1



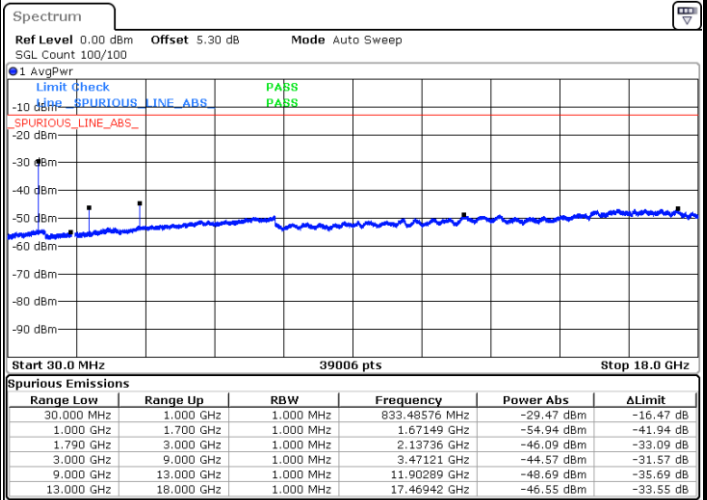
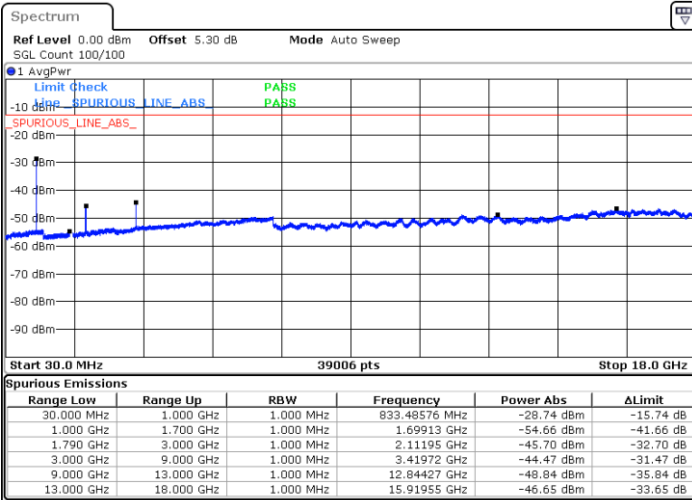
Date: 13 SEP. 2020 22:23:57



FR1 n66 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

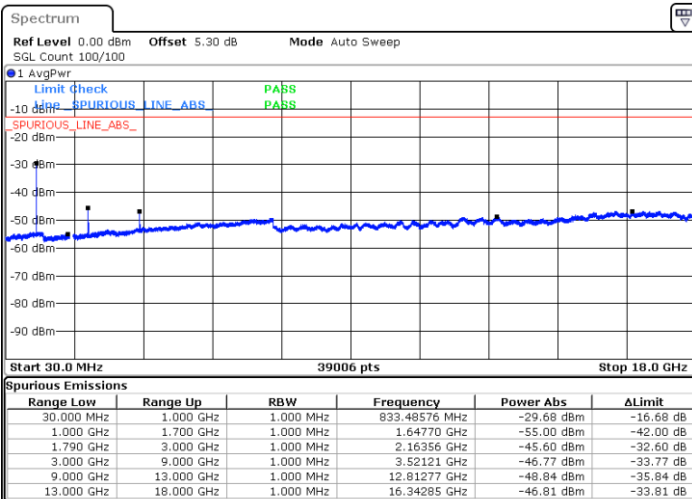
Middle Channel / 1RB1



Date: 13 SEP. 2020 22:13:43

Date: 13 SEP. 2020 22:17:58

Highest Channel / 1RB1



Date: 13 SEP. 2020 22:24:48



Frequency Stability

Test Conditions		FR1 n66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0003	
20	Battery End Point	0.0001	

Note:

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



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission_IM3 mode

EN-DC_7A_n5A (DFTs-OFDM)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1650	-66.17	-13	-53.17	-73.14	1.58	10.70	H
	2476	-63.89	-13	-50.89	-72.14	2.102	12.50	H
	3300	-61.96	-13	-48.96	-70.85	2.856	13.90	H
	1650	-66.04	-13	-53.04	-73.01	1.58	10.70	V
	2476	-63.67	-13	-50.67	-71.92	2.10	12.50	V
	3300	-62.06	-13	-49.06	-70.95	2.86	13.90	V
Middle	1656	-65.91	-13	-52.91	-72.88	1.58	10.70	H
	2482	-63.91	-13	-50.91	-72.16	2.102	12.50	H
	3312	-62.27	-13	-49.27	-71.16	2.856	13.90	H
	1656	-65.85	-13	-52.85	-72.82	1.58	10.70	V
	2482	-63.61	-13	-50.61	-71.86	2.10	12.50	V
	3312	-62.15	-13	-49.15	-71.04	2.86	13.90	V
Highest	1660	-66.22	-13	-53.22	-73.19	1.58	10.70	H
	2490	-64.16	-13	-51.16	-72.41	2.102	12.50	H
	3318	-62.21	-13	-49.21	-71.10	2.856	13.90	H
	1660	-66.13	-13	-53.13	-73.10	1.58	10.70	V
	2490	-63.85	-13	-50.85	-72.10	2.10	12.50	V
	3318	-62.14	-13	-49.14	-71.03	2.86	13.90	V



EN-DC_5A_n7A (DFTs-OFDM)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5004	-65.11	-25	-40.11	-75.32	3.03	13.24	H
	7504	-60.63	-25	-35.63	-70.08	3.56	13.01	H
	10000	-57.74	-25	-32.74	-67.26	3.92	13.44	H
	5004	-65.25	-25	-40.25	-75.46	3.03	13.24	V
	7504	-60.12	-25	-35.12	-69.57	3.56	13.01	V
	10000	-57.67	-25	-32.67	-67.19	3.92	13.44	V
Middle	5052	-60.20	-25	-35.20	-70.41	3.03	13.24	H
	7580	-60.01	-25	-35.01	-69.46	3.56	13.01	H
	10100	-56.99	-25	-31.99	-66.51	3.92	13.44	H
	5052	-64.32	-25	-39.32	-74.53	3.03	13.24	V
	7580	-59.79	-25	-34.79	-69.24	3.56	13.01	V
	10100	-57.10	-25	-32.10	-66.62	3.92	13.44	V
Highest	5100	-54.93	-25	-29.93	-65.14	3.03	13.24	H
	7652	-60.51	-25	-35.51	-69.96	3.56	13.01	H
	10200	-57.15	-25	-32.15	-66.67	3.92	13.44	H
	5100	-62.30	-25	-37.30	-72.51	3.03	13.24	V
	7652	-60.03	-25	-35.03	-69.48	3.56	13.01	V
	10200	-57.29	-25	-32.29	-66.81	3.92	13.44	V

EN-DC_66A_n7A (DFTs-OFDM)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5004	-65.17	-25	-40.17	-75.38	3.03	13.24	H
	7504	-60.78	-25	-35.78	-70.23	3.56	13.01	H
	10000	-57.35	-25	-32.35	-66.87	3.92	13.44	H
	5004	-65.33	-25	-40.33	-75.54	3.03	13.24	V
	7504	-60.36	-25	-35.36	-69.81	3.56	13.01	V
	10000	-57.43	-25	-32.43	-66.95	3.92	13.44	V
Middle	5052	-65.80	-25	-40.80	-76.01	3.03	13.24	H
	7580	-61.14	-25	-36.14	-70.59	3.56	13.01	H
	10100	-57.43	-25	-32.43	-66.95	3.92	13.44	H
	5052	-65.55	-25	-40.55	-75.76	3.03	13.24	V
	7580	-60.39	-25	-35.39	-69.84	3.56	13.01	V
	10100	-57.49	-25	-32.49	-67.01	3.92	13.44	V
Highest	5104	-65.15	-25	-40.15	-75.36	3.03	13.24	H
	7652	-60.45	-25	-35.45	-69.90	3.56	13.01	H
	10200	-57.28	-25	-32.28	-66.80	3.92	13.44	H
	5104	-65.19	-25	-40.19	-75.40	3.03	13.24	V
	7652	-60.24	-25	-35.24	-69.69	3.56	13.01	V
	10200	-57.15	-25	-32.15	-66.67	3.92	13.44	V



EN-DC_5A_n66A (DFTs-OFDM)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3423	-62.14	-13	-49.14	-72.88	2.604	13.34	H
	5133	-58.25	-13	-45.25	-68.76	3.011	13.52	H
	6840	-54.59	-13	-41.59	-64.79	3.271	13.47	H
	3423	-62.66	-13	-49.66	-73.40	2.604	13.34	V
	5133	-57.88	-13	-44.88	-68.39	3.011	13.52	V
	6840	-54.41	-13	-41.41	-64.61	3.271	13.47	V
Middle	3471	-62.20	-13	-49.20	-72.94	2.604	13.34	H
	5208	-57.95	-13	-44.95	-68.46	3.011	13.52	H
	6948	-54.51	-13	-41.51	-64.71	3.271	13.47	H
	3471	-62.20	-13	-49.20	-72.94	2.604	13.34	V
	5208	-58.19	-13	-45.19	-68.70	3.011	13.52	V
	6948	-53.73	-13	-40.73	-63.93	3.271	13.47	V
Highest	3522	-61.84	-13	-48.84	-72.58	2.604	13.34	H
	5283	-58.17	-13	-45.17	-68.68	3.011	13.52	H
	7044	-53.60	-13	-40.60	-63.80	3.271	13.47	H
	3522	-61.57	-13	-48.57	-72.31	2.604	13.34	V
	5283	-58.36	-13	-45.36	-68.87	3.011	13.52	V
	7044	-52.40	-13	-39.40	-62.60	3.271	13.47	V

EN-DC_7A_n66A (DFTs-OFDM)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	3522	-61.10	-13	-48.10	-71.84	2.604	13.34	H
	5283	-58.08	-13	-45.08	-68.59	3.011	13.52	H
	7044	-53.21	-13	-40.21	-63.41	3.271	13.47	H
	3522	-61.80	-13	-48.80	-72.54	2.604	13.34	V
	5283	-57.95	-13	-44.95	-68.46	3.011	13.52	V
	7044	-53.18	-13	-40.18	-63.38	3.271	13.47	V