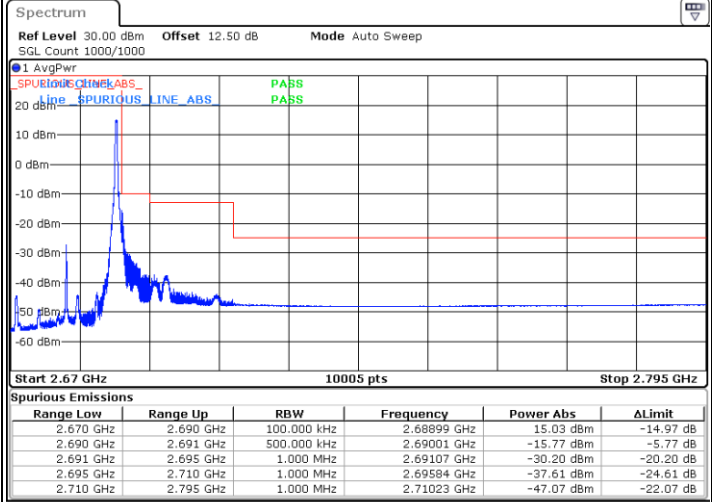
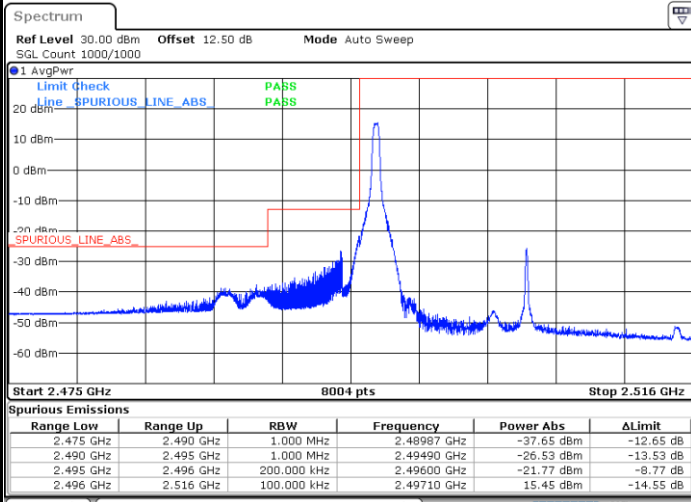




FR1 n41 / 20MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

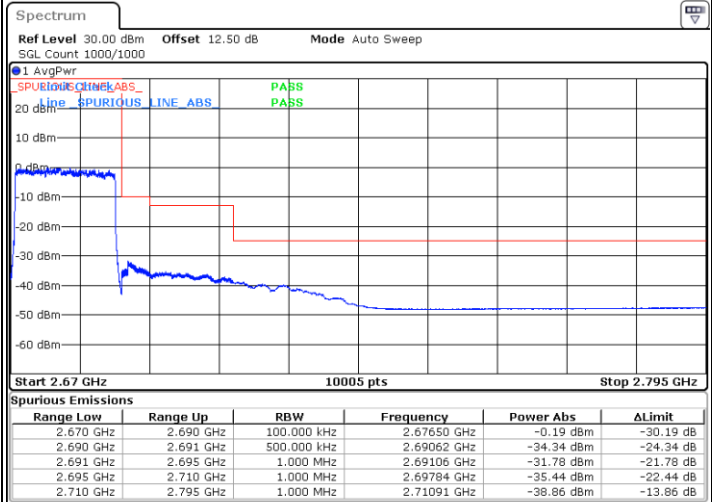
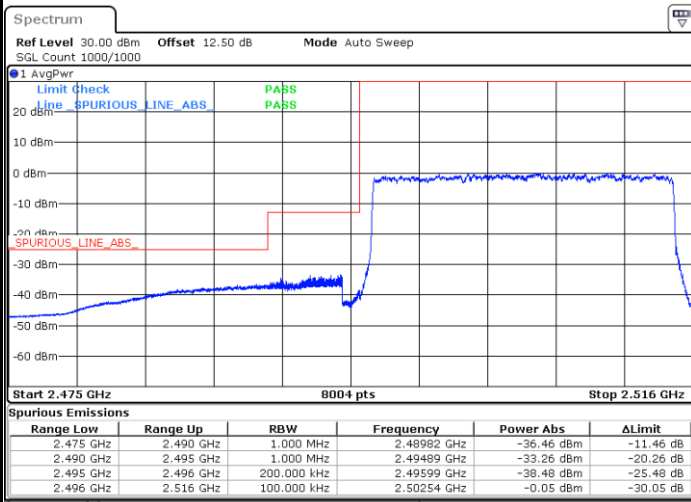


Date: 19.DEC.2020 09:23:15

Date: 19.DEC.2020 10:14:39

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19.DEC.2020 09:25:46

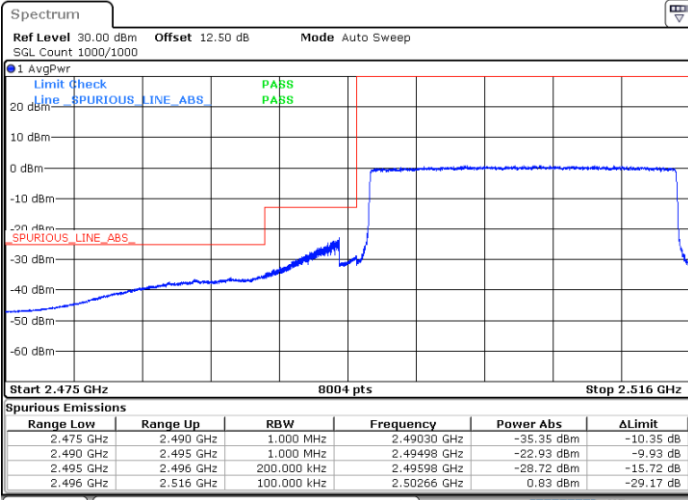
Date: 19.DEC.2020 10:13:05



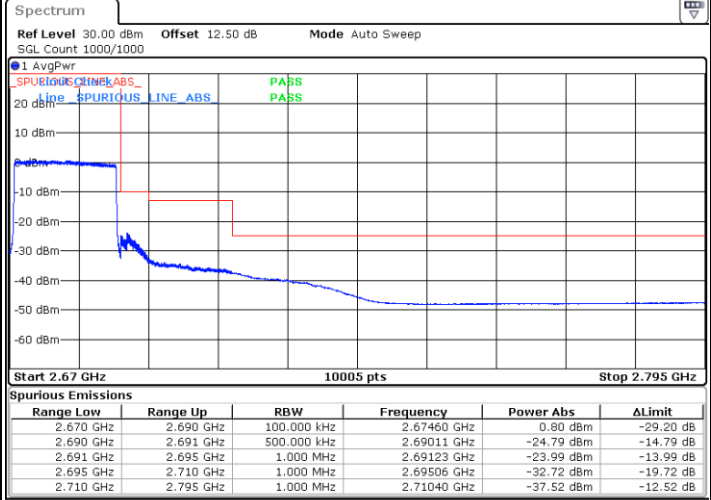
FR1 n41 / 20MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19,DEC.2020 09:28:44



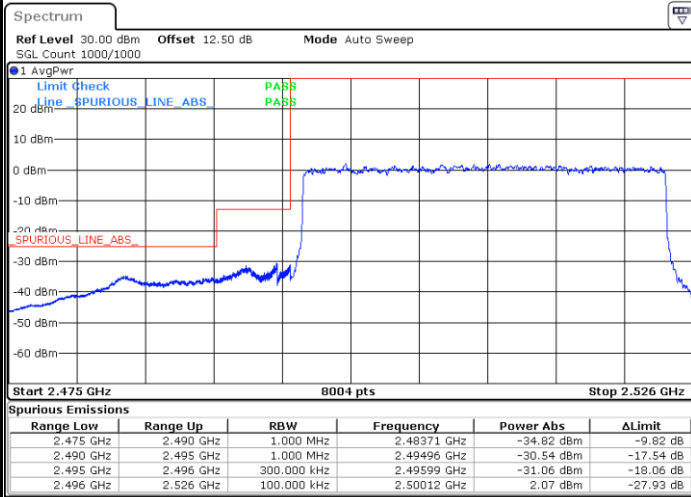
Date: 19,DEC.2020 10:15:59



FR1 n41 / 30MHz / DFT-S OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 23.JAN.2021 00:14:49

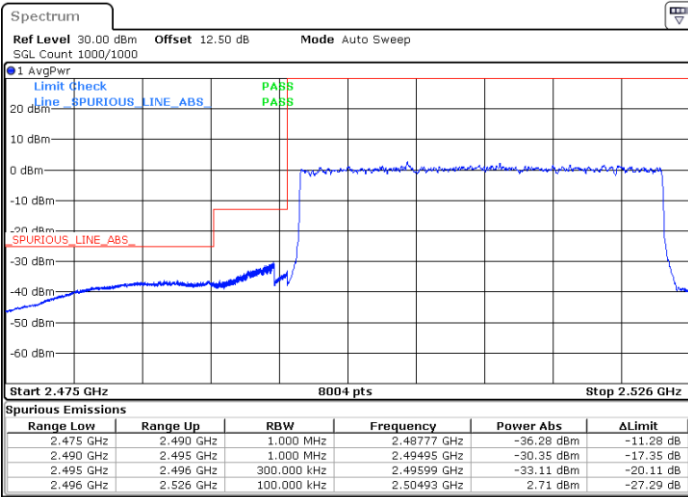
Date: 22.JAN.2021 23:52:56



FR1 n41 / 30MHz / DFT-S OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 23.JAN.2021 00:17:10



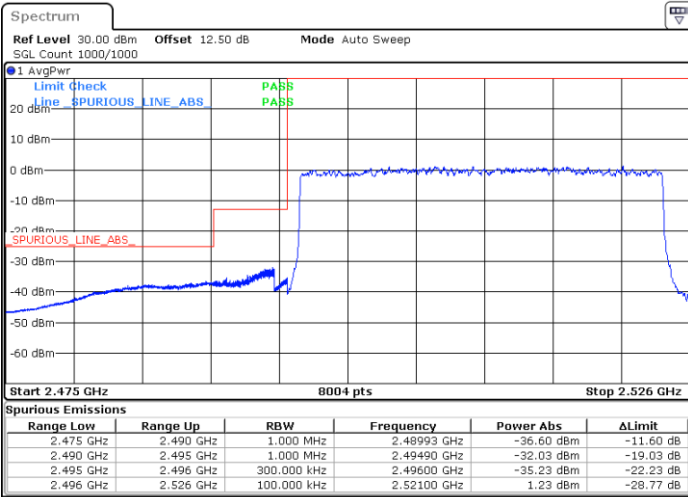
Date: 22.JAN.2021 23:55:17



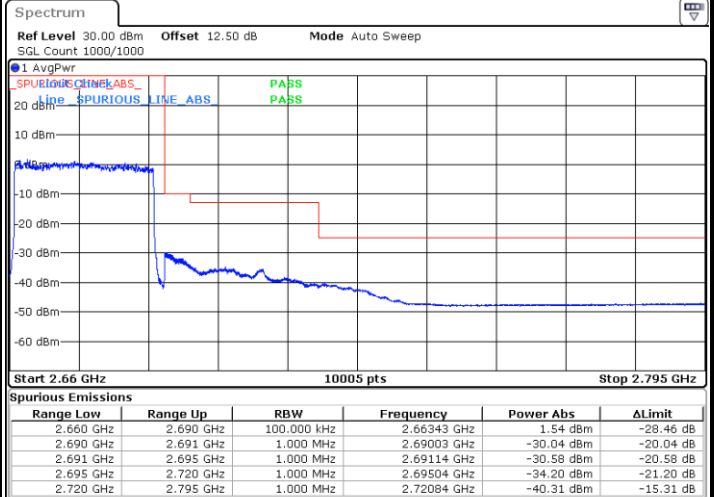
FR1 n41 / 30MHz / DFT-S OFDM / 16QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 23.JAN.2021 00:19:21



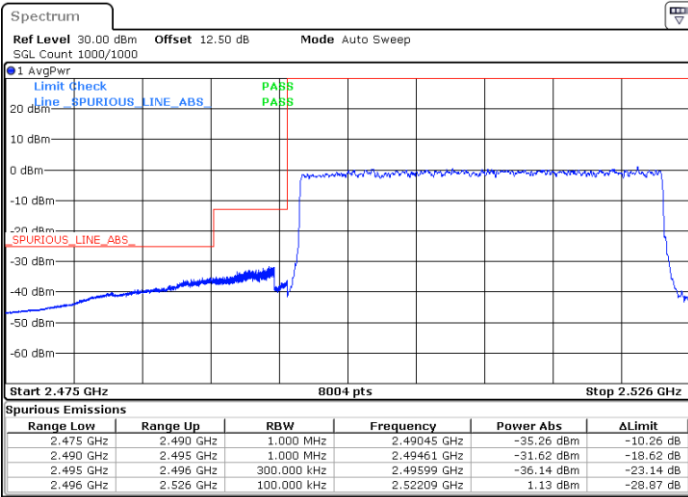
Date: 23.JAN.2021 00:00:09



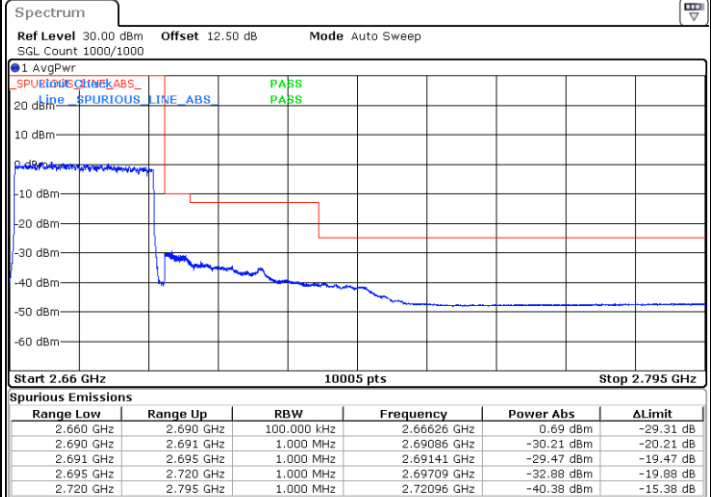
FR1 n41 / 30MHz / DFT-S OFDM / 64QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 23.JAN.2021 00:21:09



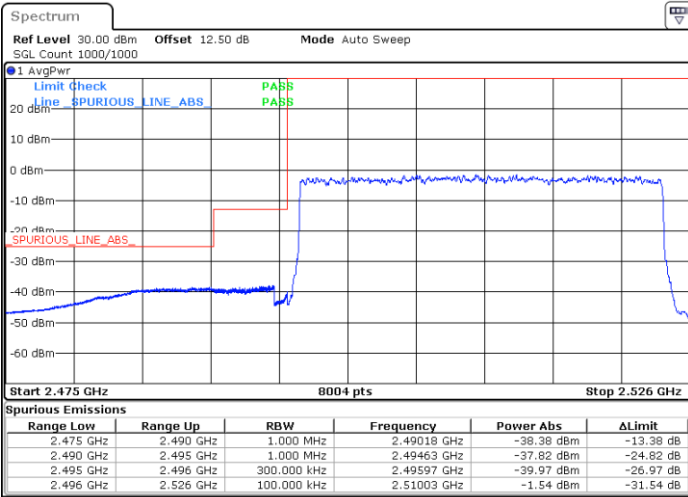
Date: 23.JAN.2021 00:08:25



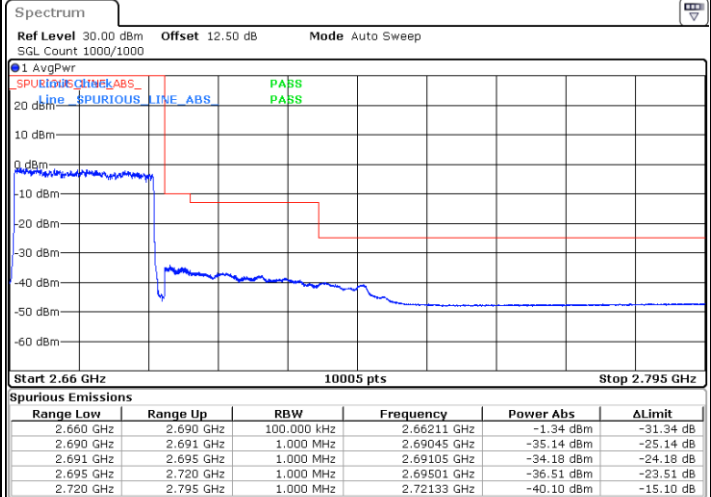
FR1 n41 / 30MHz / DFT-S OFDM / 256QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 23.JAN.2021 00:24:03



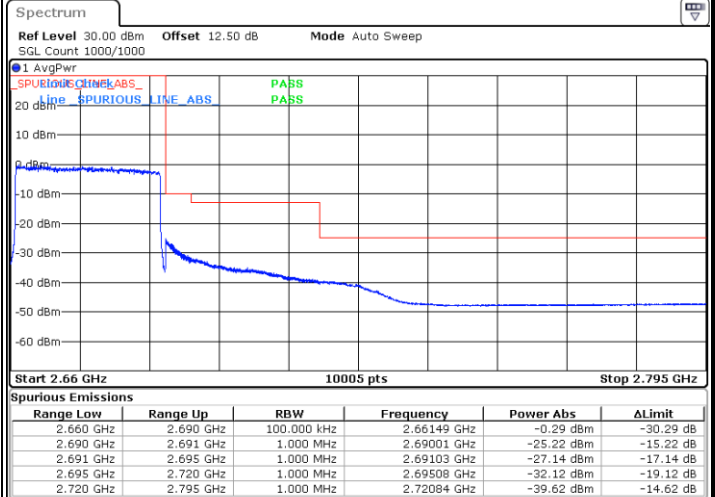
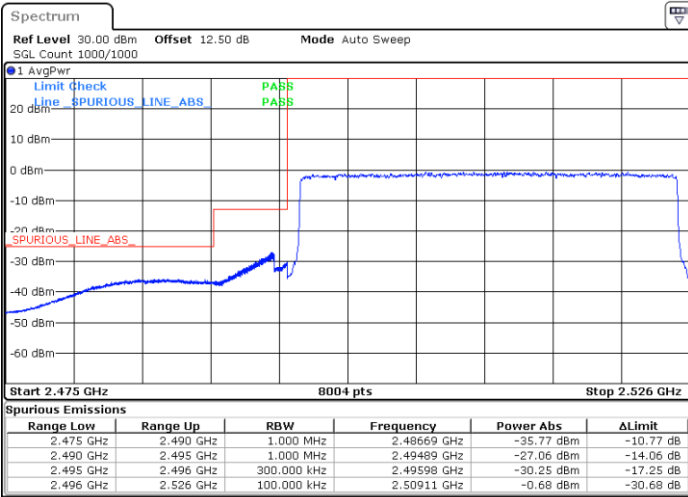
Date: 23.JAN.2021 00:10:16



FR1 n41 / 30MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 23.JAN.2021 00:27:34

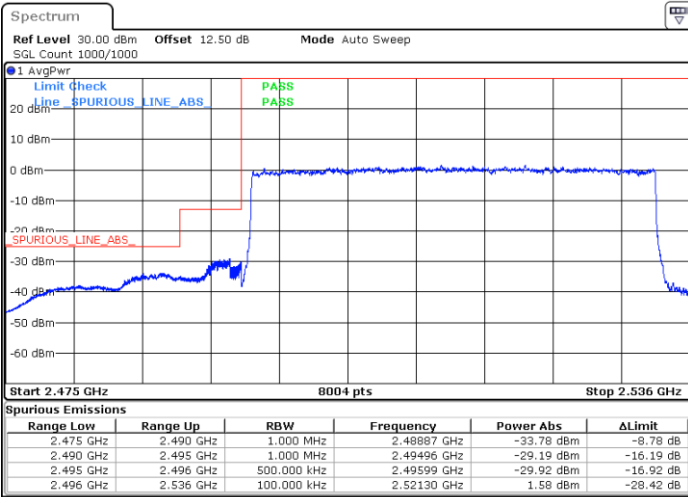
Date: 22.JAN.2021 23:48:27



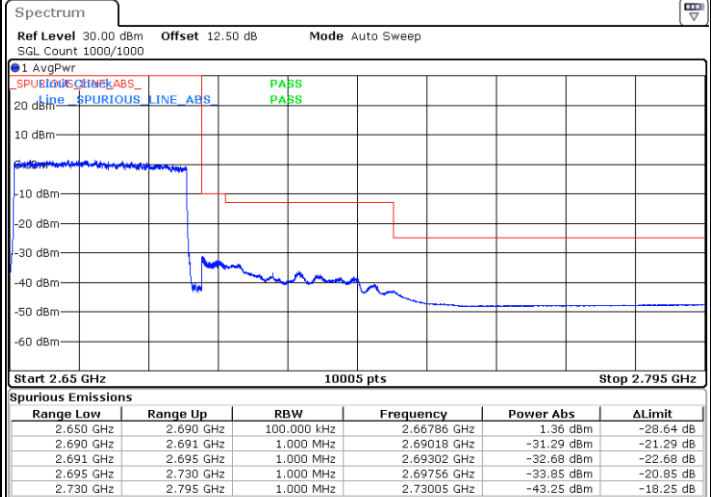
FR1 n41 / 40MHz / DFT-S OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19,DEC.2020 10:19:05



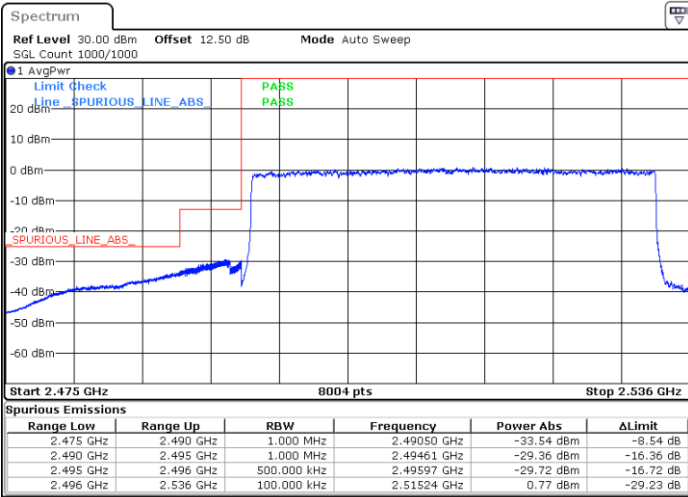
Date: 19,DEC.2020 10:30:54



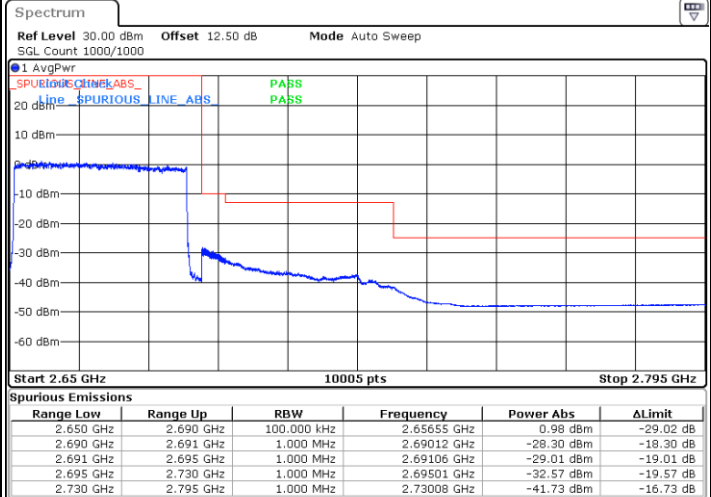
FR1 n41 / 40MHz / DFT-S OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19,DEC.2020 10:20:04



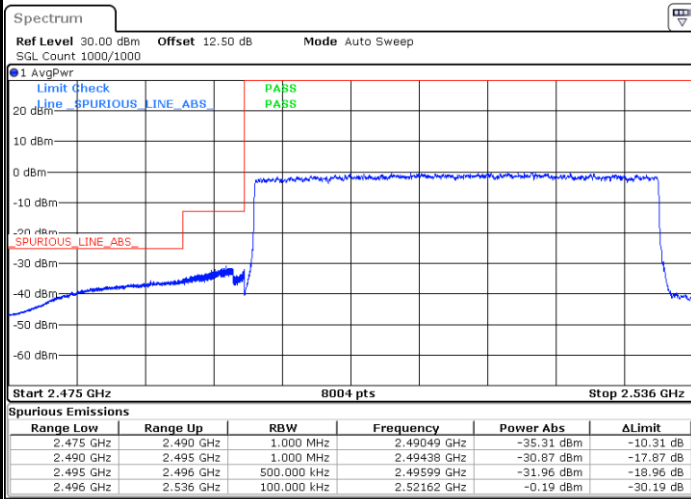
Date: 19,DEC.2020 10:32:09



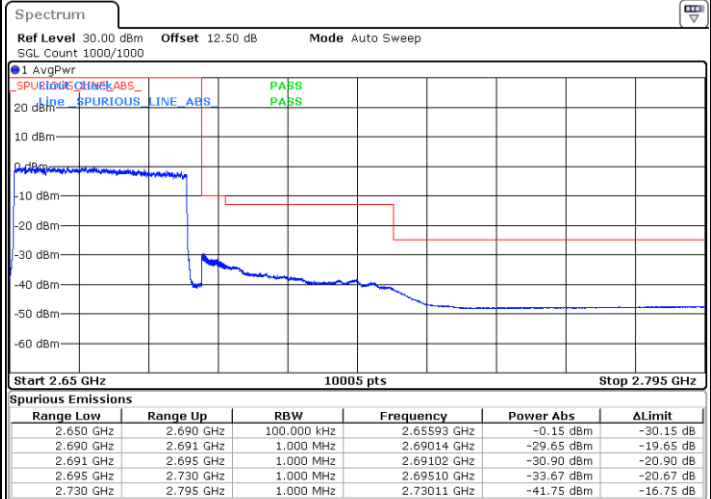
FR1 n41 / 40MHz / DFT-S OFDM / 16QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19, DEC. 2020 10:21:08



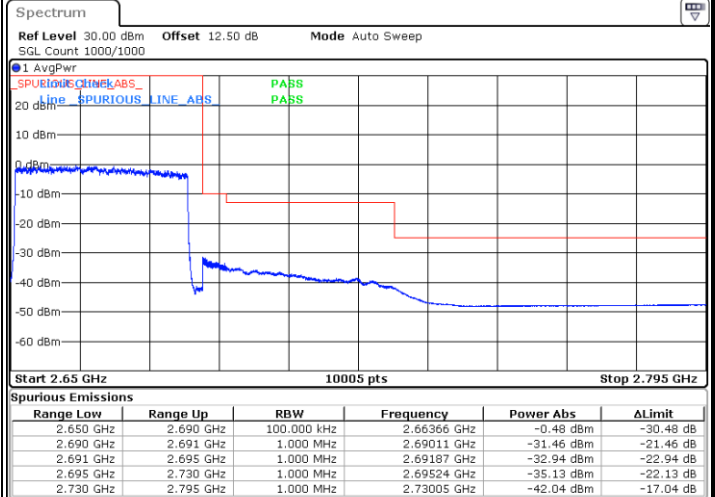
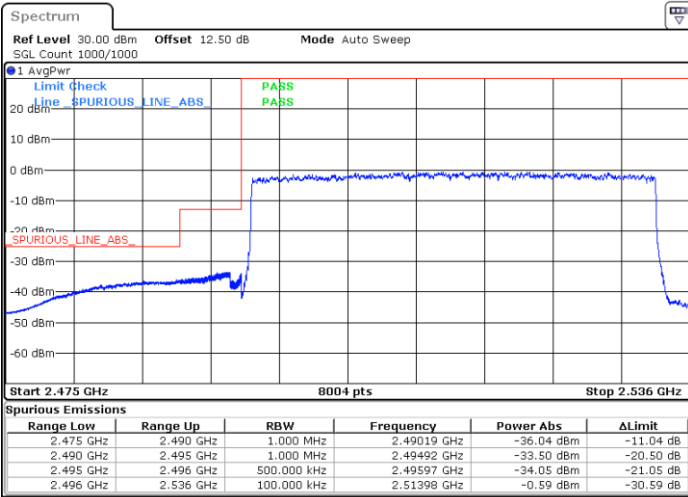
Date: 19, DEC. 2020 10:33:46



FR1 n41 / 40MHz / DFT-S OFDM / 64QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19,DEC.2020 10:22:27

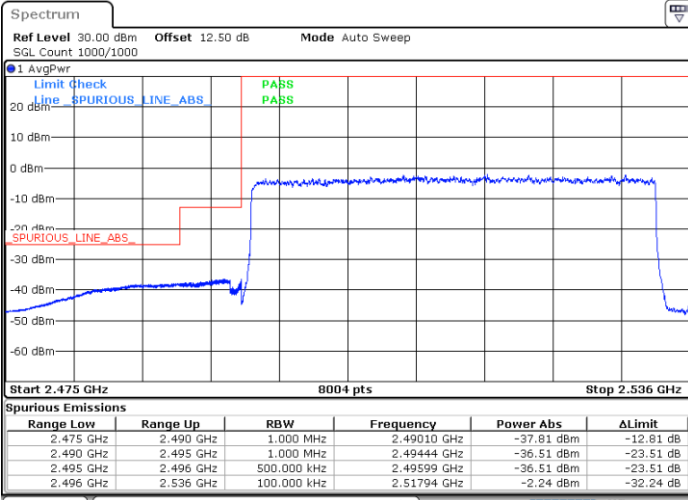
Date: 19,DEC.2020 10:35:09



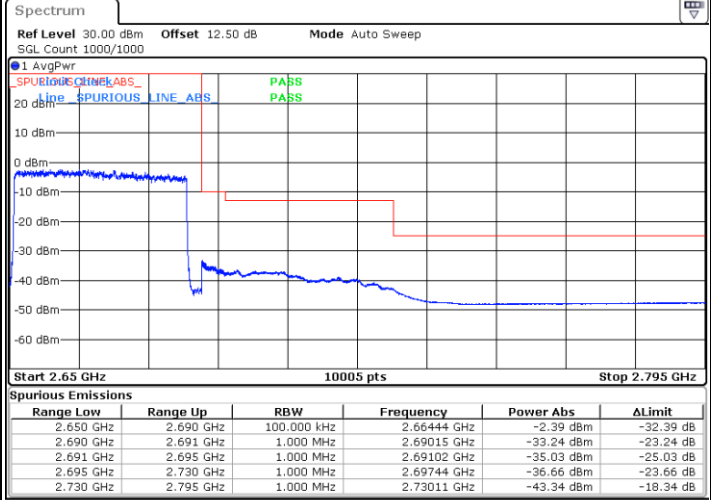
FR1 n41 / 40MHz / DFT-S OFDM / 256QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19, DEC. 2020 10:23:52



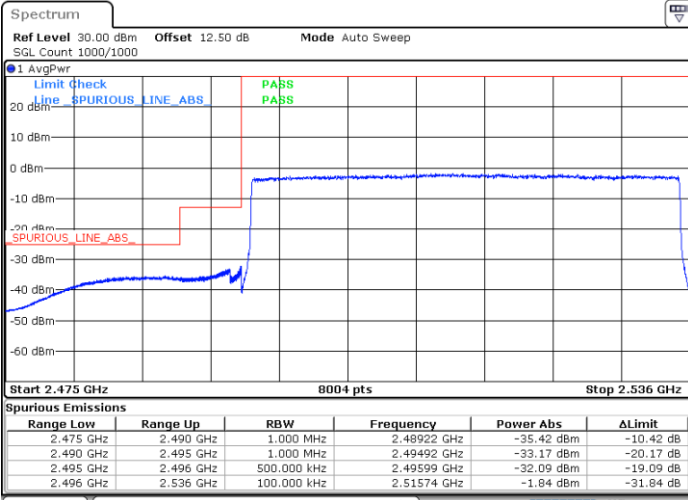
Date: 19, DEC. 2020 10:36:39



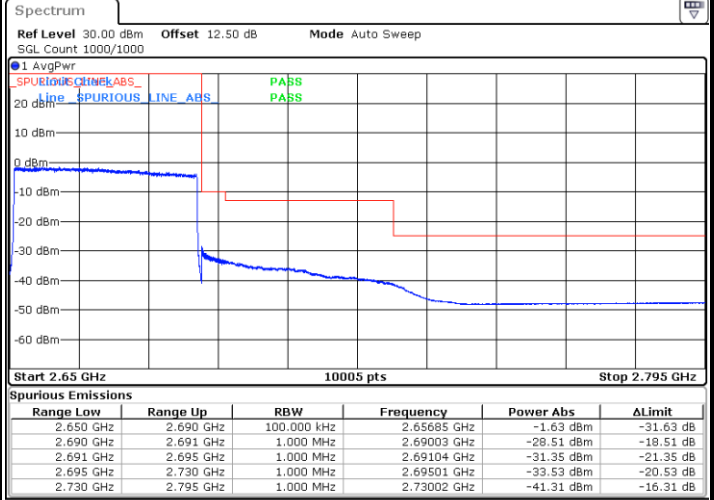
FR1 n41 / 40MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19,DEC.2020 10:17:58



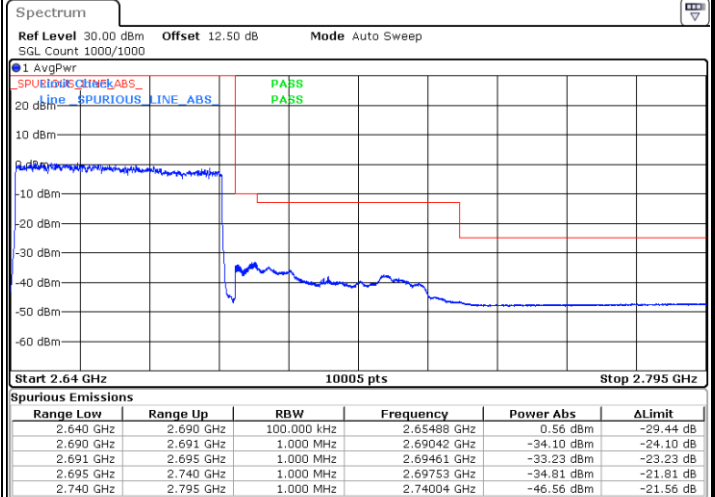
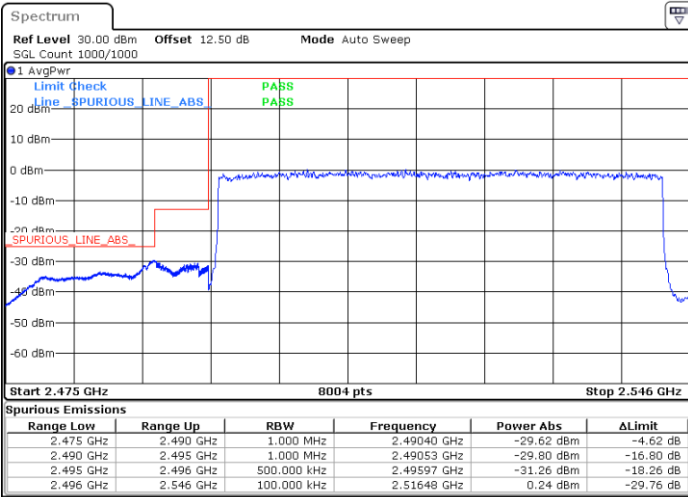
Date: 19,DEC.2020 10:29:28



FR1 n41 / 50MHz / DFT-S OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 23.JAN.2021 03:32:12

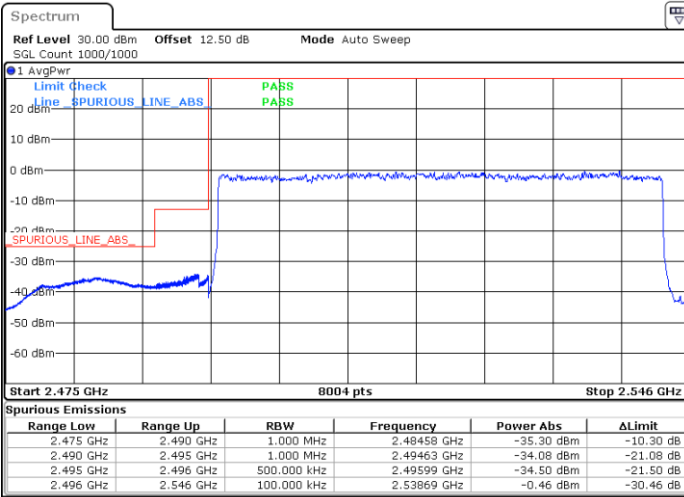
Date: 23.JAN.2021 02:58:49



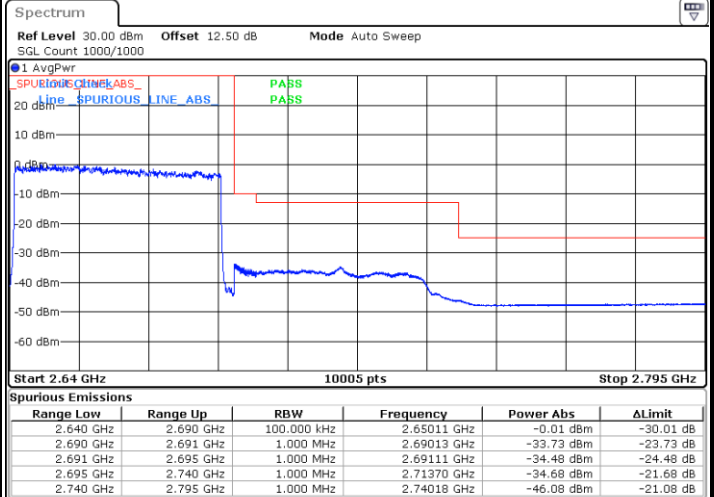
FR1 n41 / 50MHz / DFT-S OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 23.JAN.2021 03:34:04



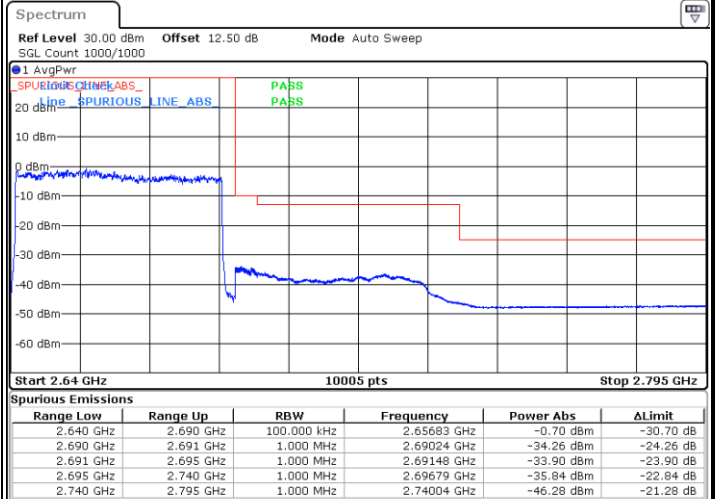
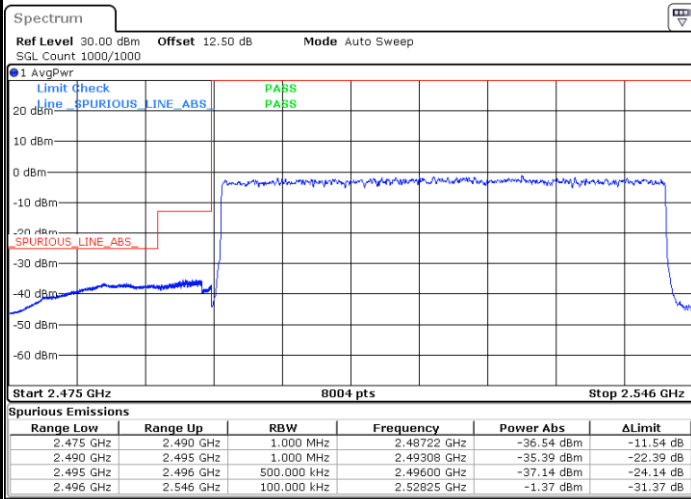
Date: 23.JAN.2021 03:01:12



FR1 n41 / 50MHz / DFT-S OFDM / 16QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 23.JAN.2021 03:35:53

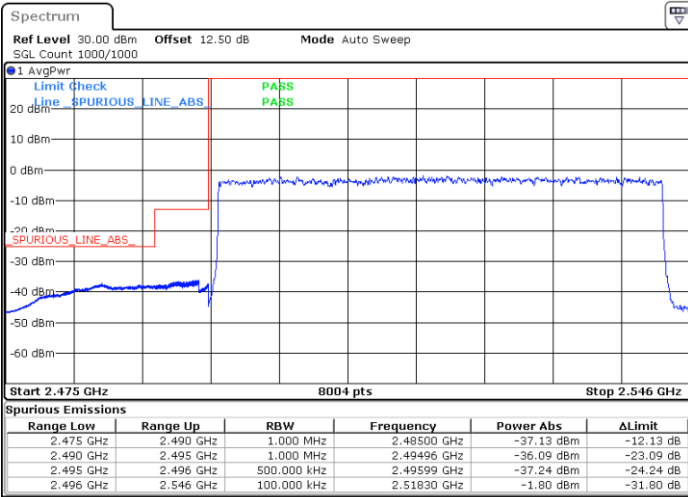
Date: 23.JAN.2021 03:04:03



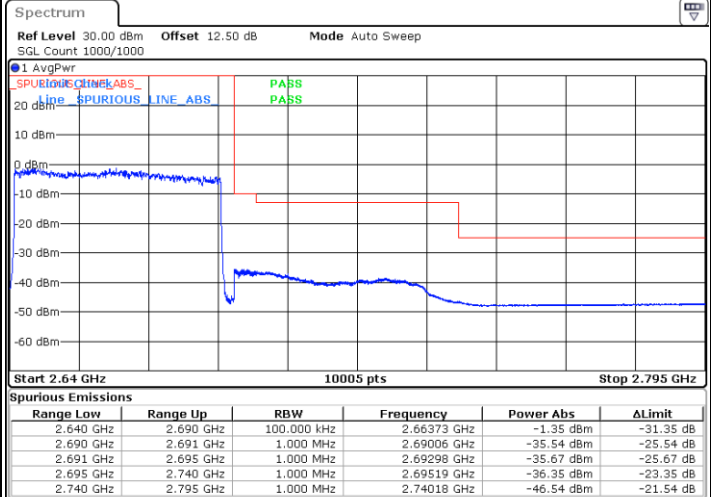
FR1 n41 / 50MHz / DFT-S OFDM / 64QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 23.JAN.2021 03:37:46



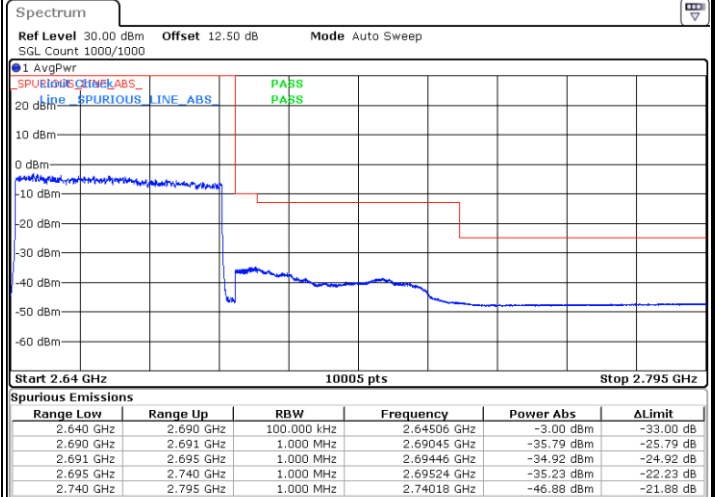
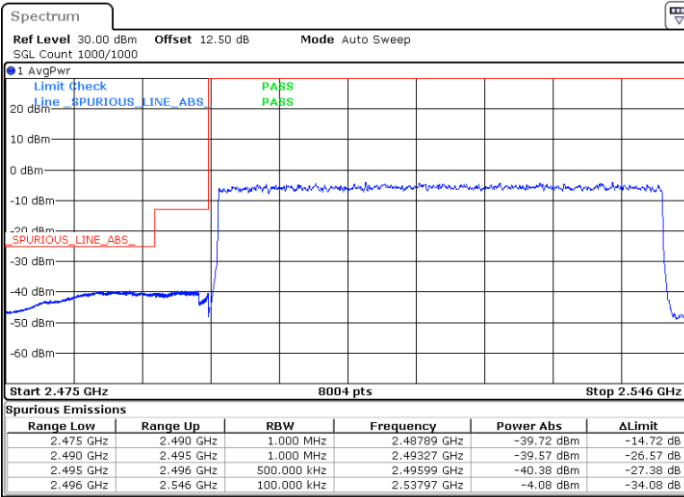
Date: 23.JAN.2021 03:07:47



FR1 n41 / 50MHz / DFT-S OFDM / 256QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 23.JAN.2021 03:39:59

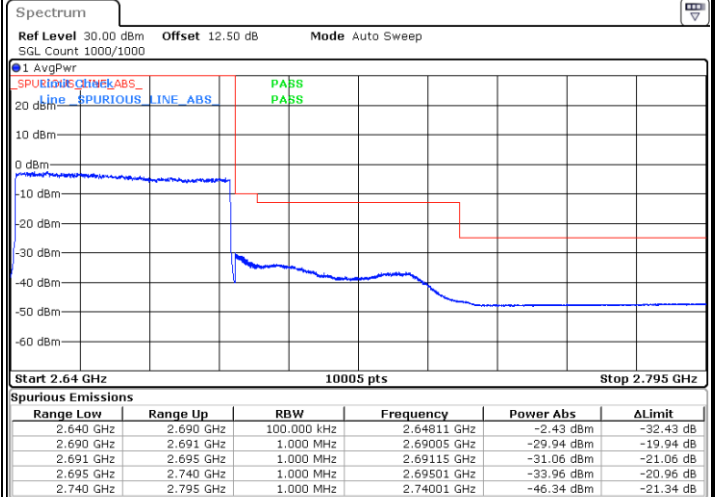
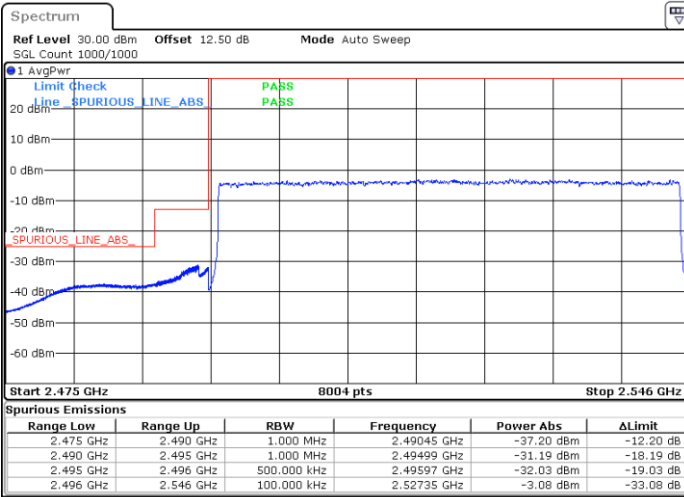
Date: 23.JAN.2021 03:10:20



FR1 n41 / 50MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 23.JAN.2021 03:43:14

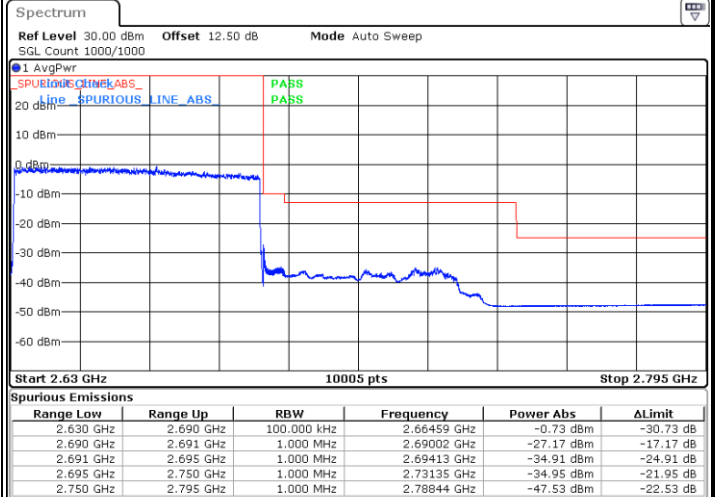
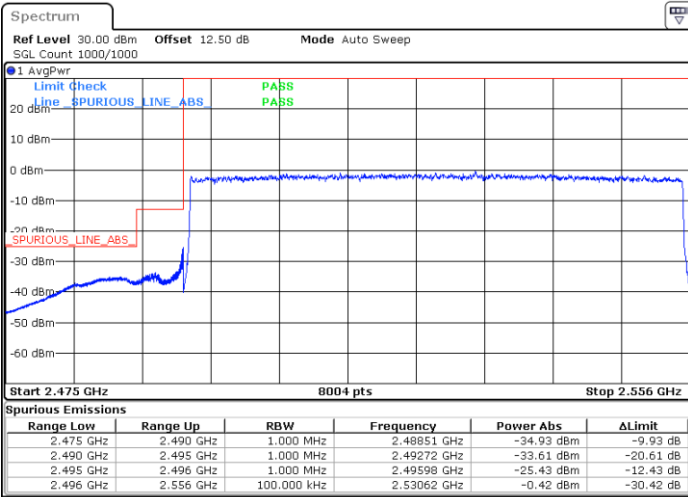
Date: 23.JAN.2021 02:33:45



FR1 n41 / 60MHz / DFT-S OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19, DEC. 2020 10:42:23

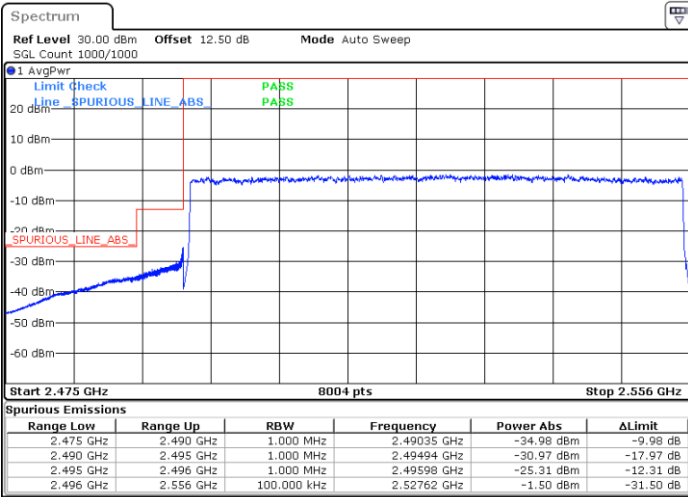
Date: 19, DEC. 2020 10:51:23



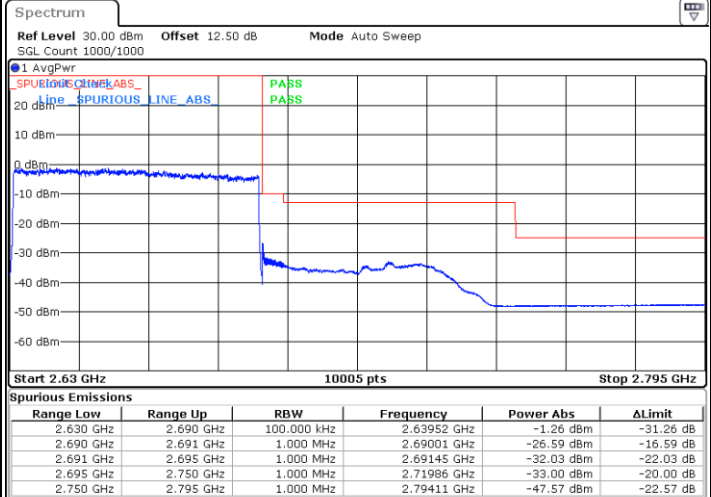
FR1 n41 / 60MHz / DFT-S OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19, DEC. 2020 10:41:22



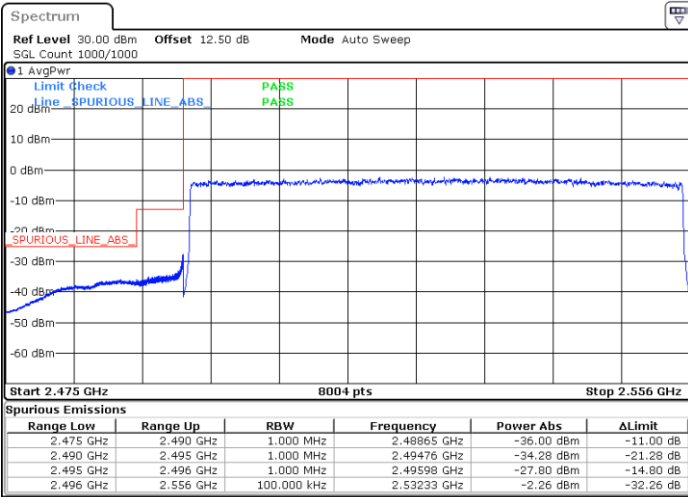
Date: 19, DEC. 2020 10:52:36



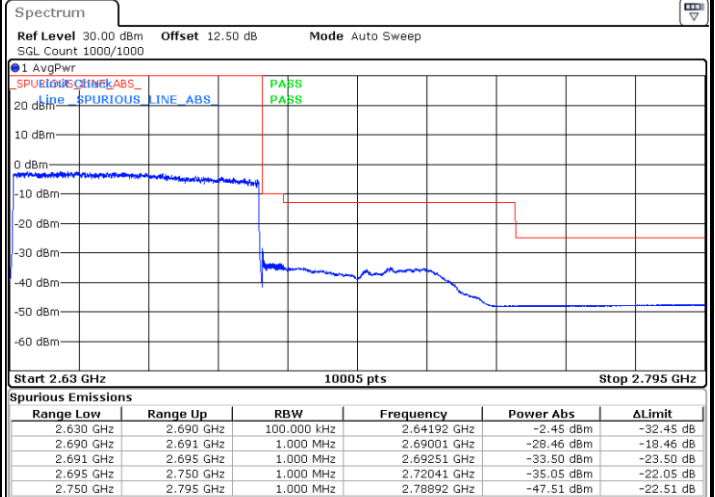
FR1 n41 / 60MHz / DFT-S OFDM / 16QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19,DEC.2020 10:40:31



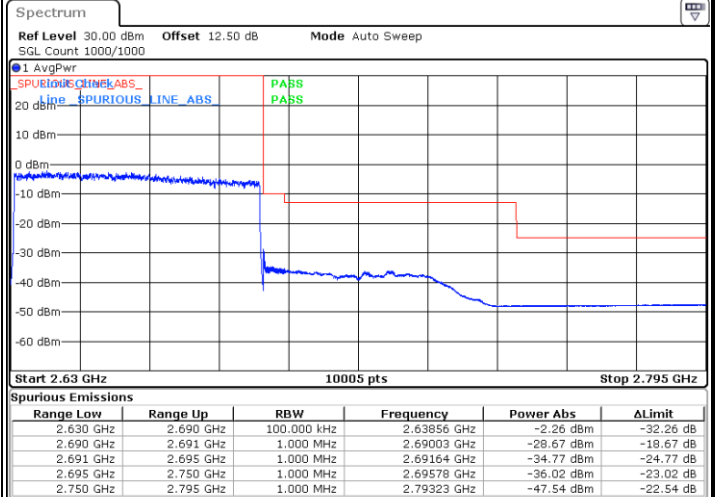
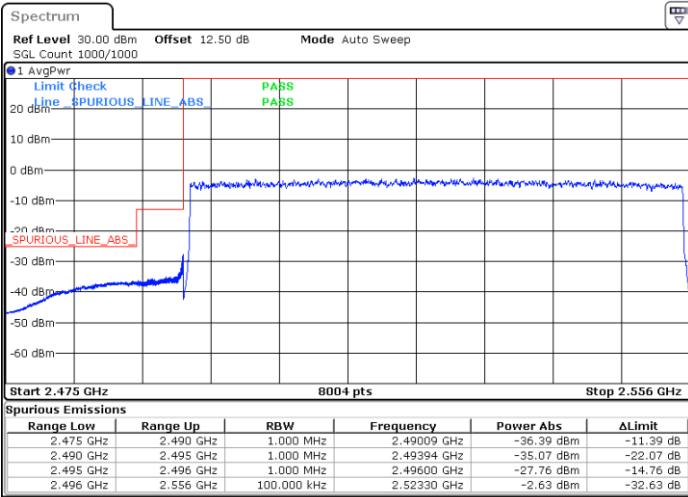
Date: 19,DEC.2020 10:53:50



FR1 n41 / 60MHz / DFT-S OFDM / 64QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19,DEC.2020 10:39:40

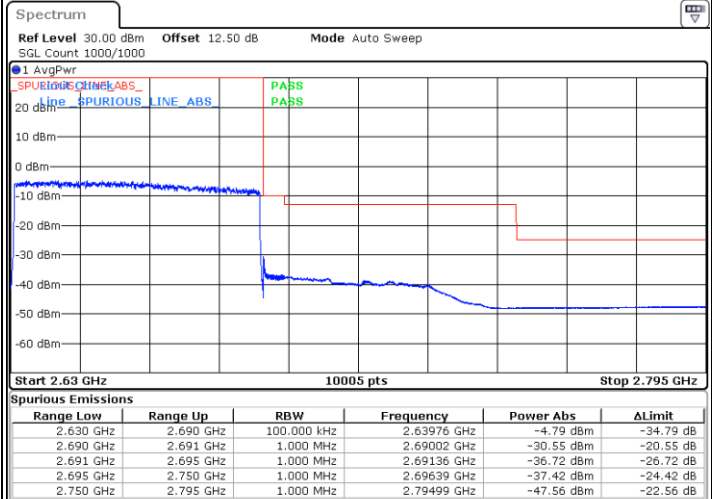
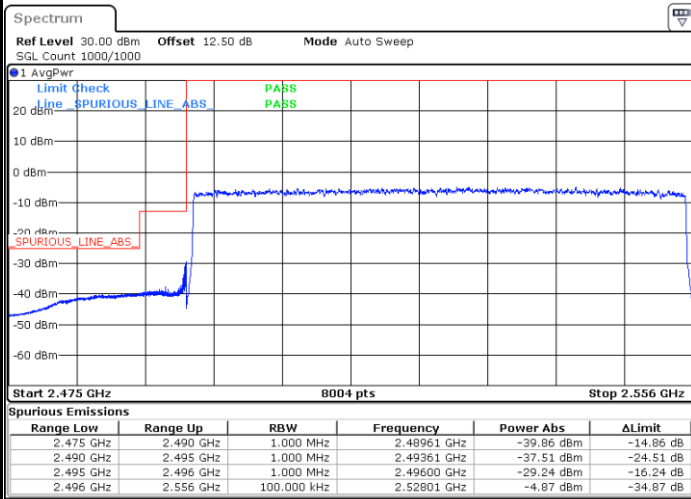
Date: 19,DEC.2020 10:55:10



FR1 n41 / 60MHz / DFT-S OFDM / 256QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19,DEC.2020 10:38:29

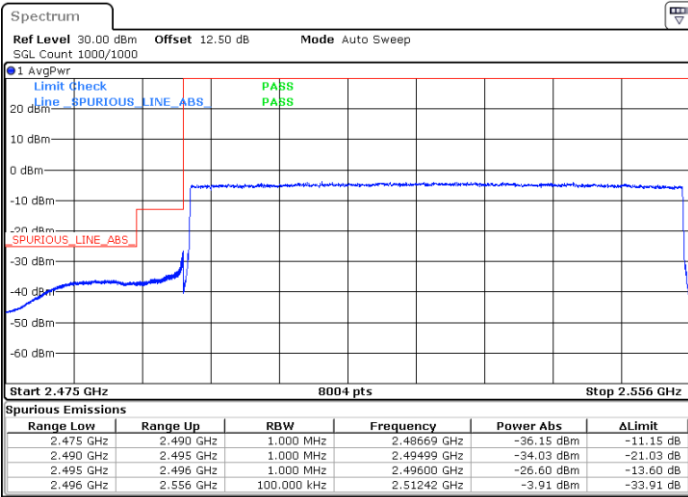
Date: 19,DEC.2020 10:56:23



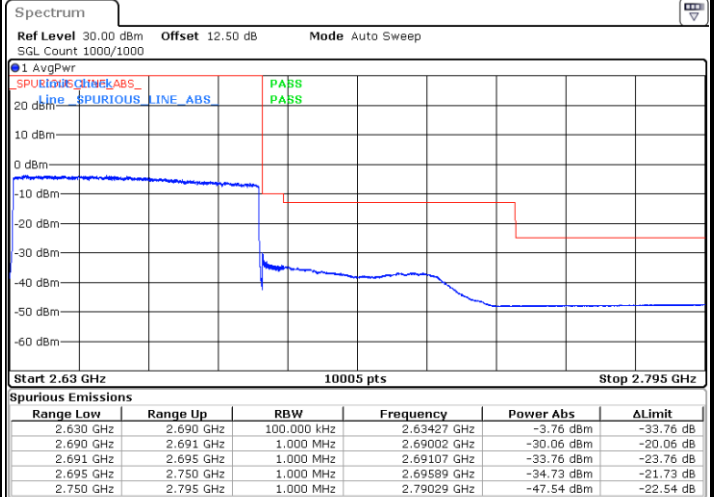
FR1 n41 / 60MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19, DEC. 2020 10:43:32



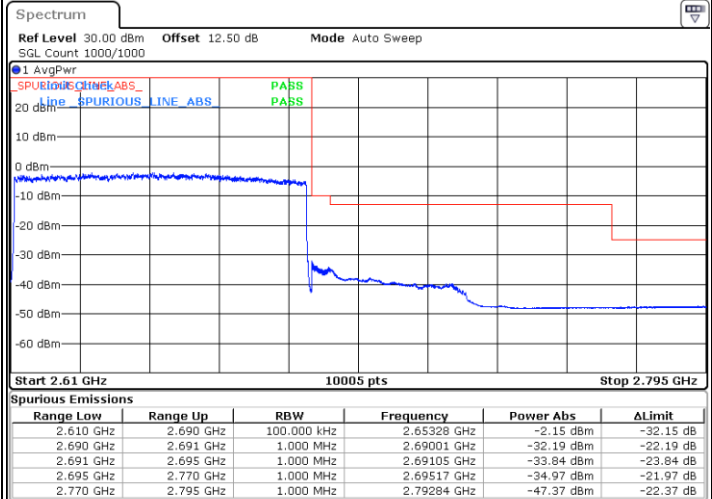
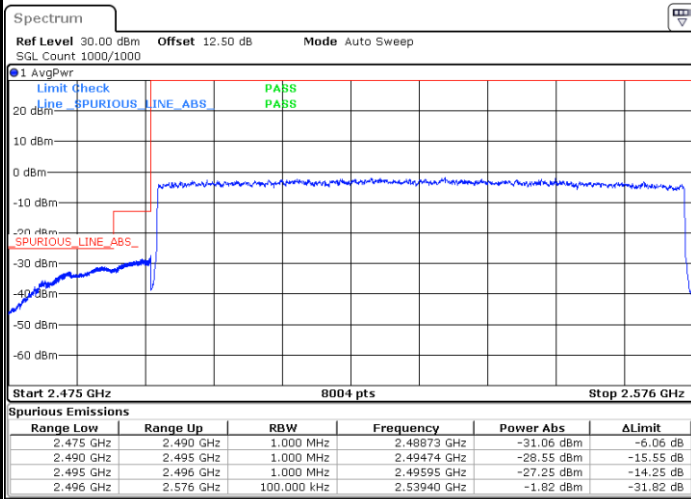
Date: 19, DEC. 2020 10:58:00



FR1 n41 / 80MHz / DFT-S OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19,DEC.2020 11:01:41

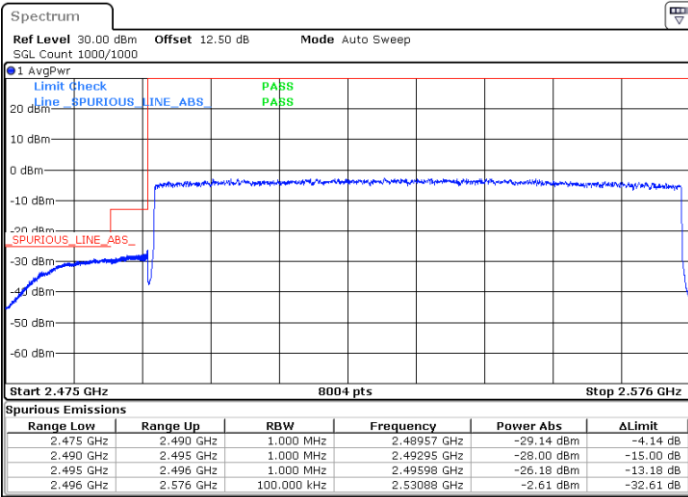
Date: 19,DEC.2020 11:14:51



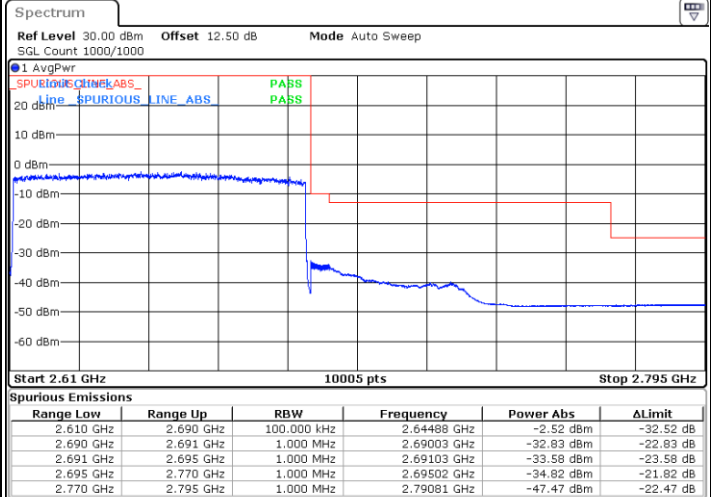
FR1 n41 / 80MHz / DFT-S OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19.DEC.2020 11:02:43



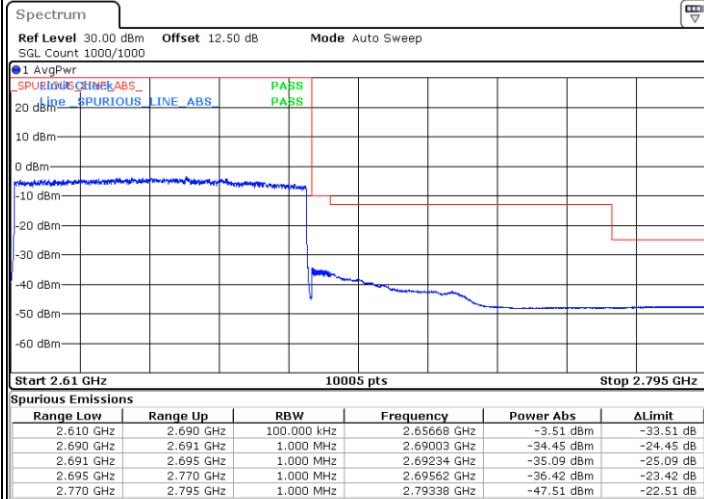
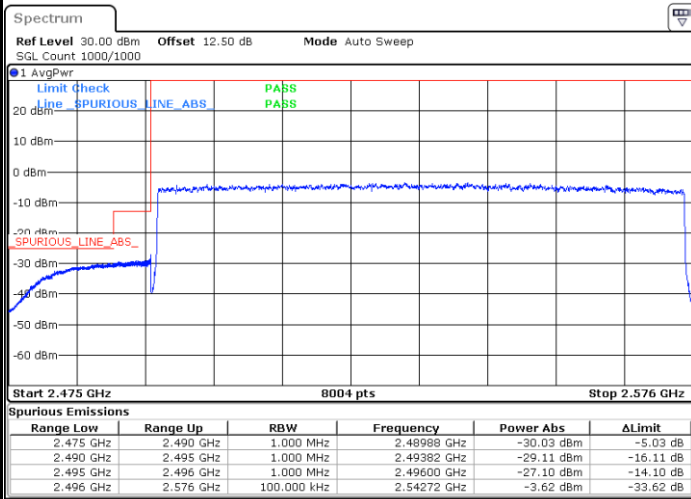
Date: 19.DEC.2020 11:16:08



FR1 n41 / 80MHz / DFT-S OFDM / 16QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19.DEC.2020 11:04:19

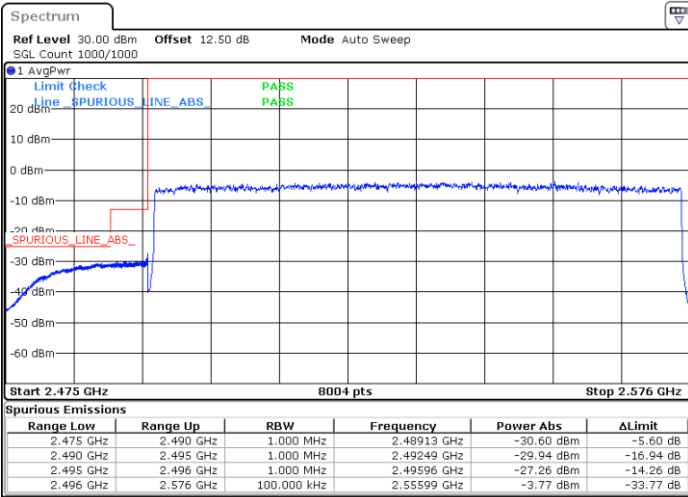
Date: 19.DEC.2020 11:17:54



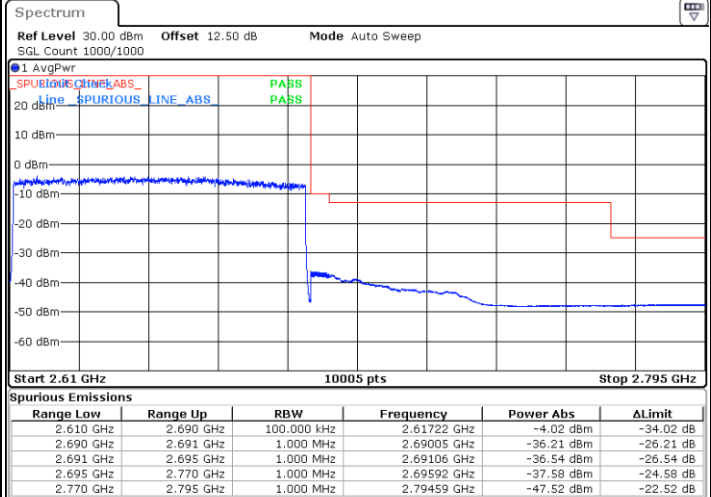
FR1 n41 / 80MHz / DFT-S OFDM / 64QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19.DEC.2020 11:05:12



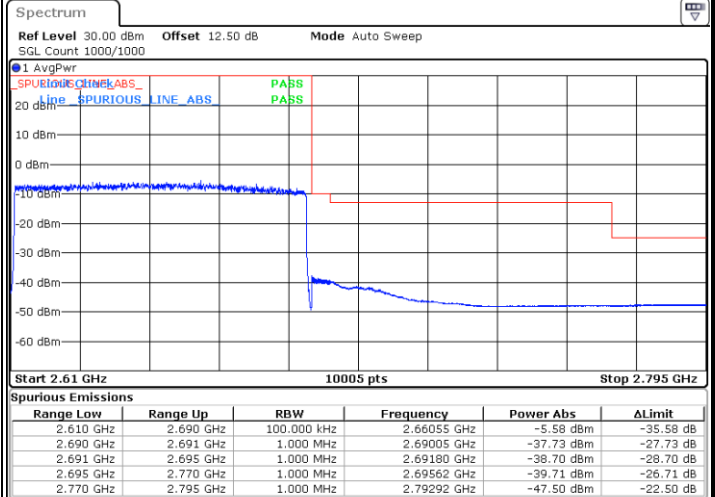
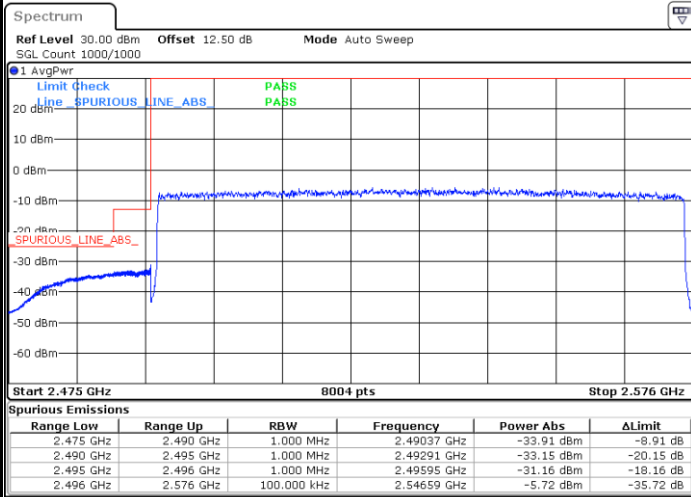
Date: 19.DEC.2020 11:19:06



FR1 n41 / 80MHz / DFT-S OFDM / 256QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19.DEC.2020 11:06:31

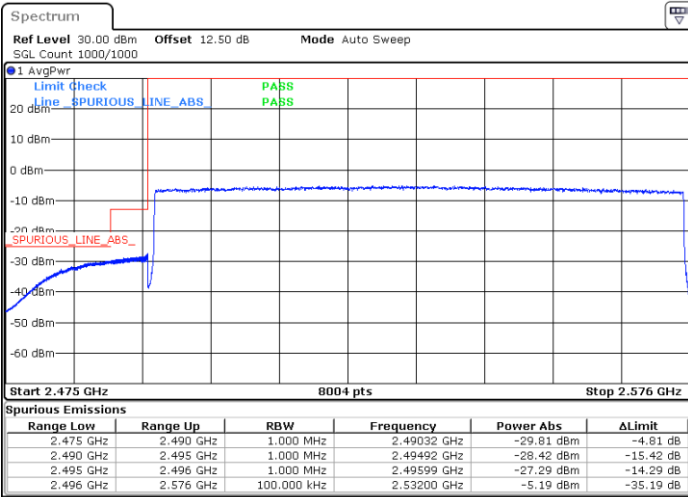
Date: 19.DEC.2020 11:20:34



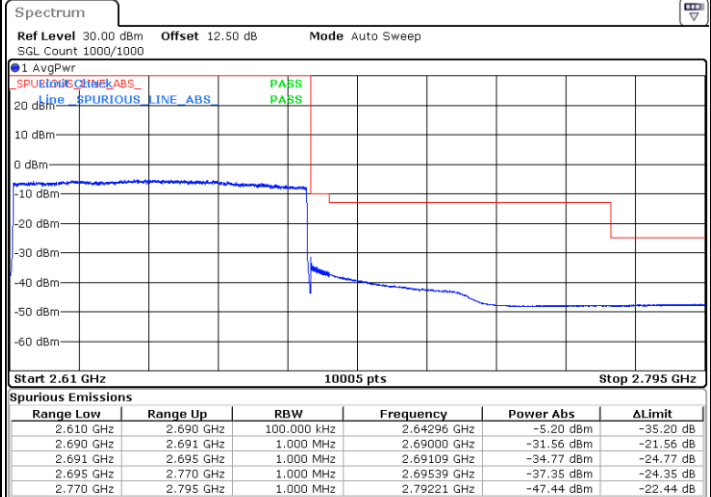
FR1 n41 / 80MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19.DEC.2020 11:08:29



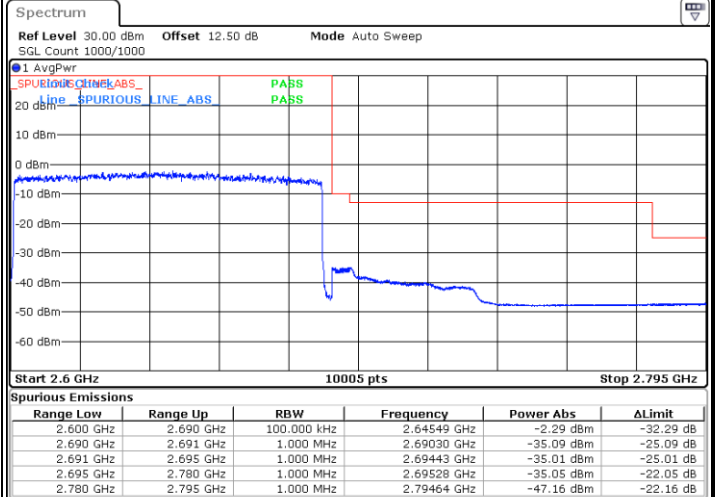
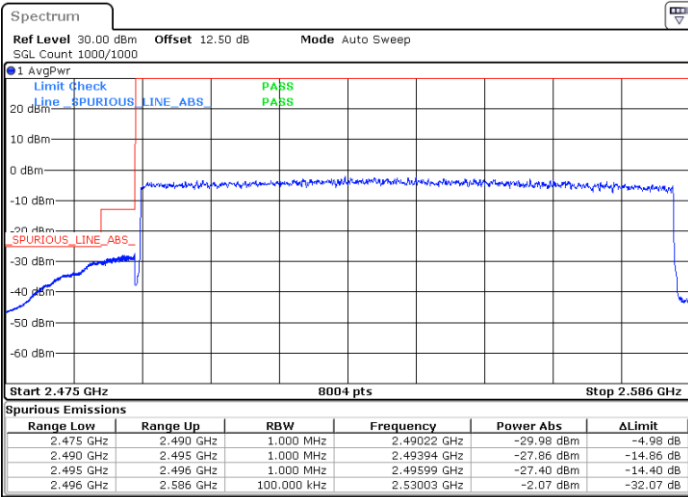
Date: 19.DEC.2020 11:12:29



FR1 n41 / 90MHz / DFT-S OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 23.JAN.2021 05:34:01

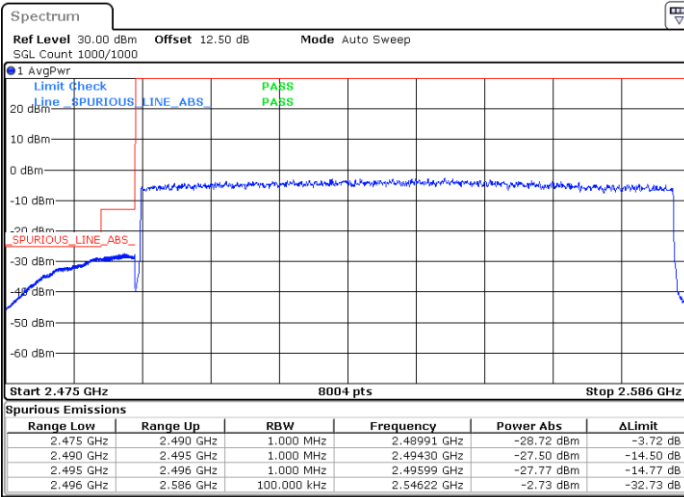
Date: 23.JAN.2021 05:14:44



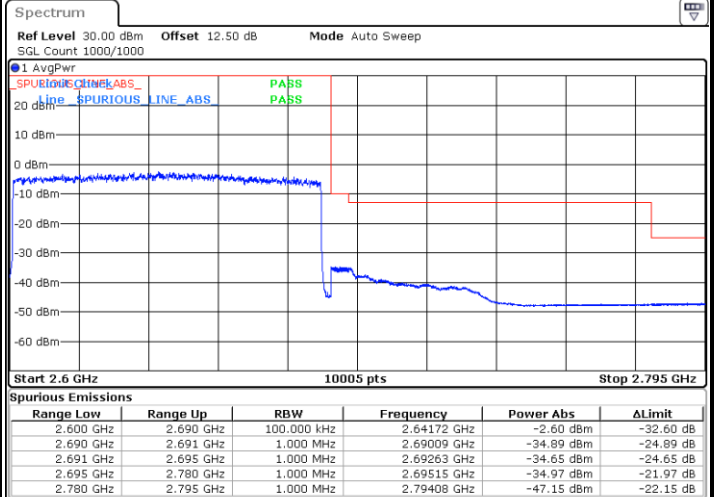
FR1 n41 / 90MHz / DFT-S OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 23.JAN.2021 05:36:05



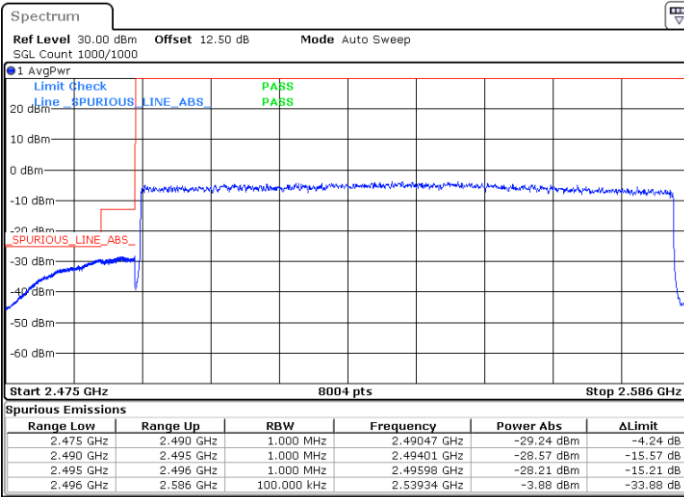
Date: 23.JAN.2021 05:16:33



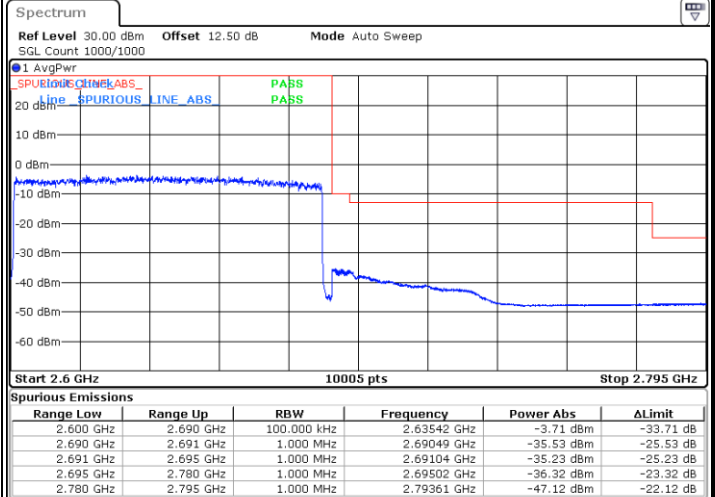
FR1 n41 / 90MHz / DFT-S OFDM / 16QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 23.JAN.2021 05:37:54



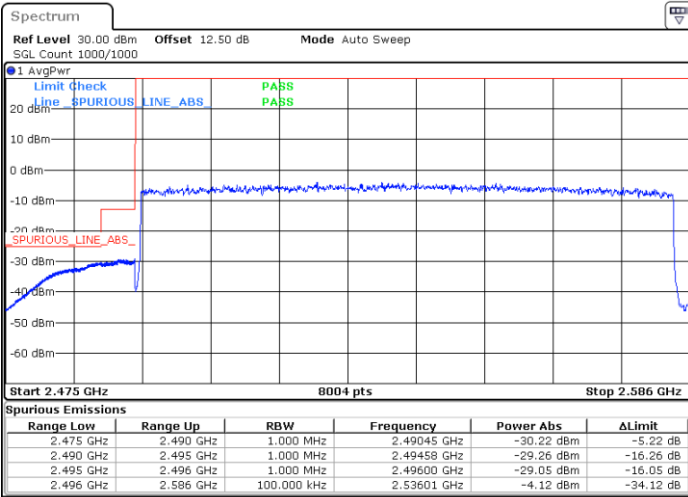
Date: 23.JAN.2021 05:18:42



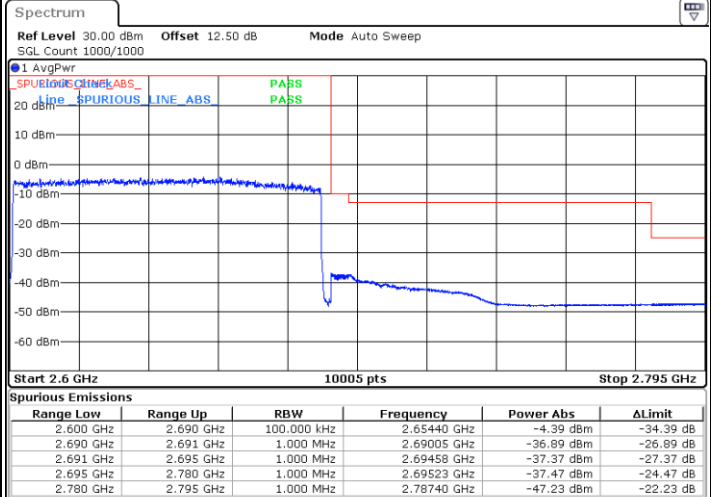
FR1 n41 / 90MHz / DFT-S OFDM / 64QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 23.JAN.2021 05:39:31



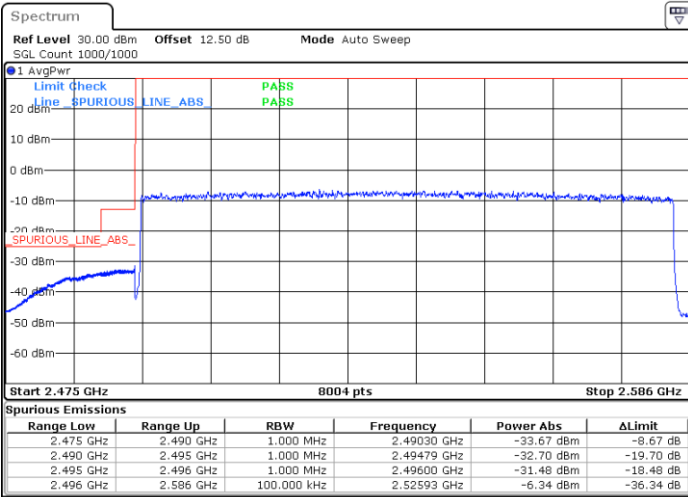
Date: 23.JAN.2021 05:21:18



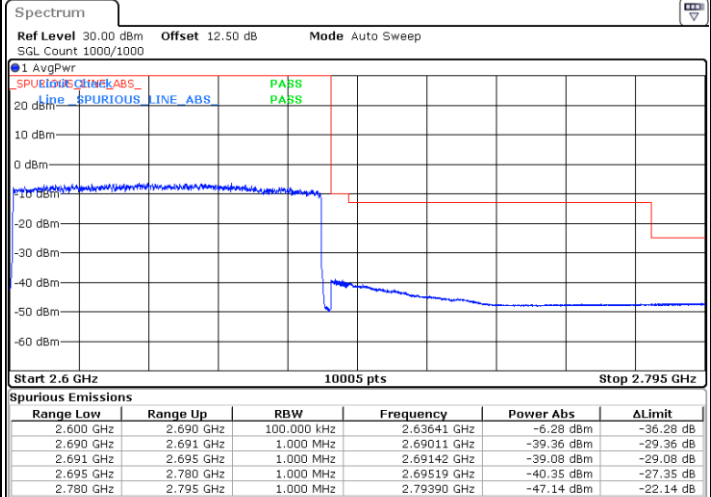
FR1 n41 / 90MHz / DFT-S OFDM / 256QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 23.JAN.2021 05:41:37



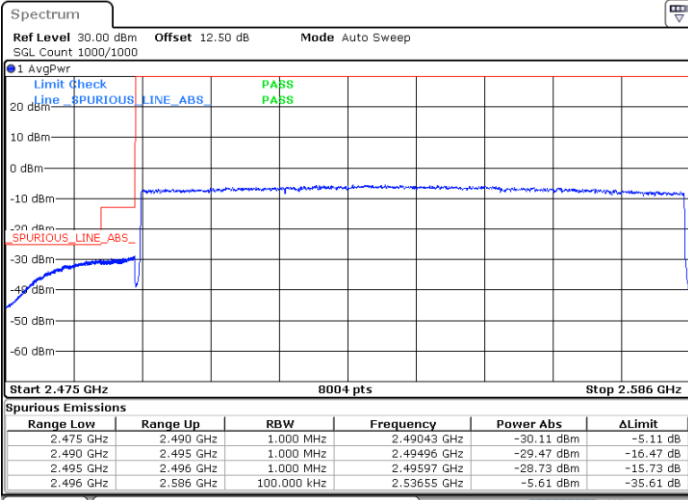
Date: 23.JAN.2021 05:25:19



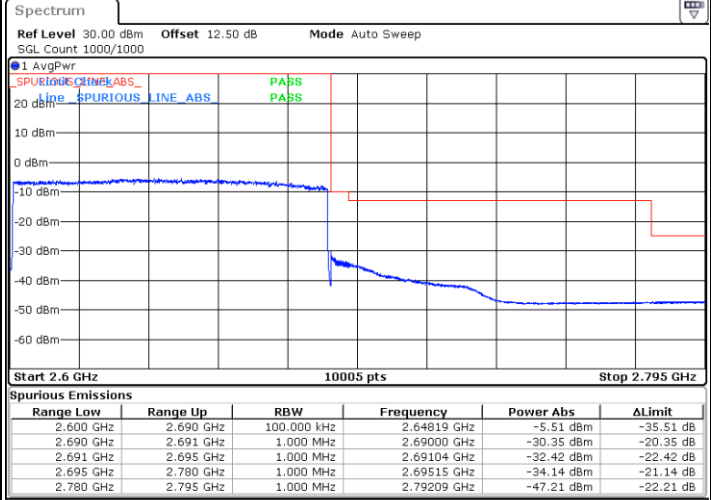
FR1 n41 / 90MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 23.JAN.2021 05:45:36



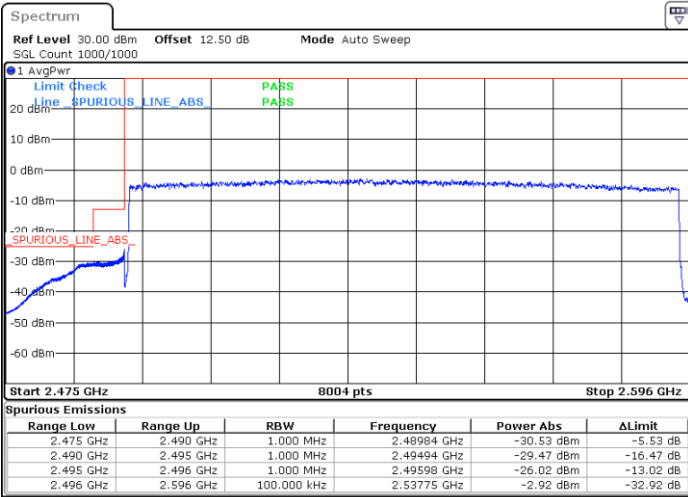
Date: 23.JAN.2021 05:11:34



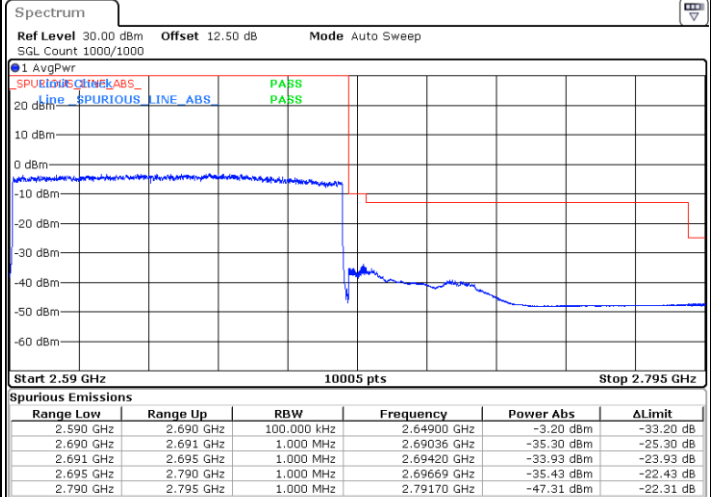
FR1 n41 / 100MHz / DFT-S OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19,DEC.2020 11:29:53



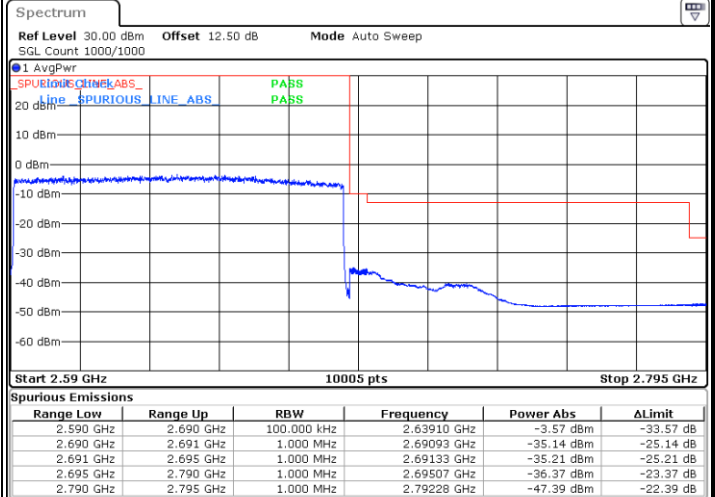
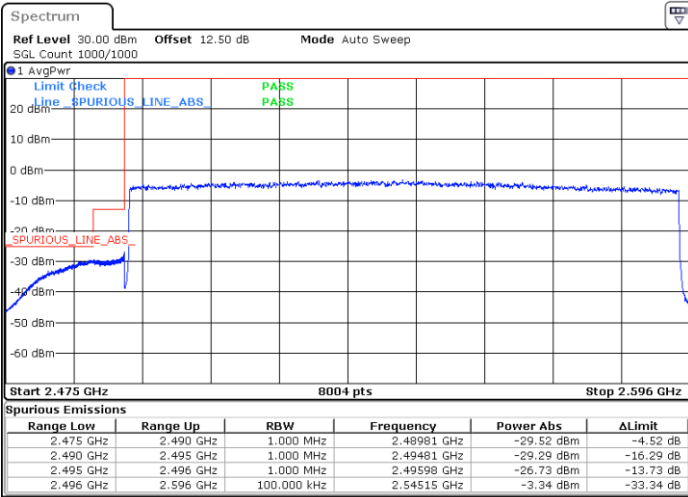
Date: 19,DEC.2020 11:40:52



FR1 n41 / 100MHz / DFT-S OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19.DEC.2020 11:30:55

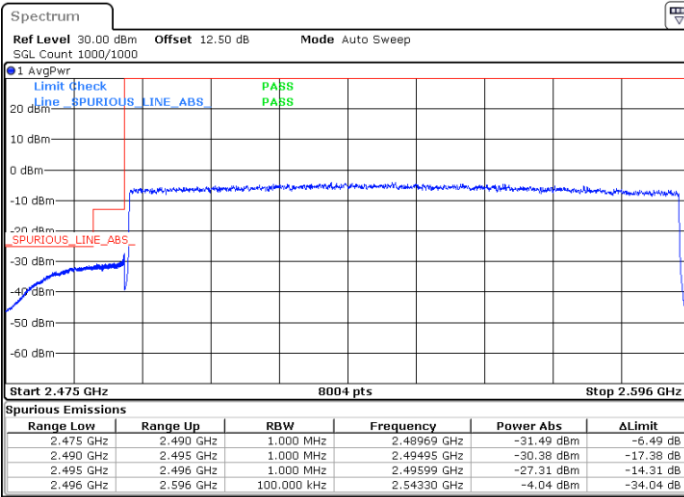
Date: 19.DEC.2020 11:39:42



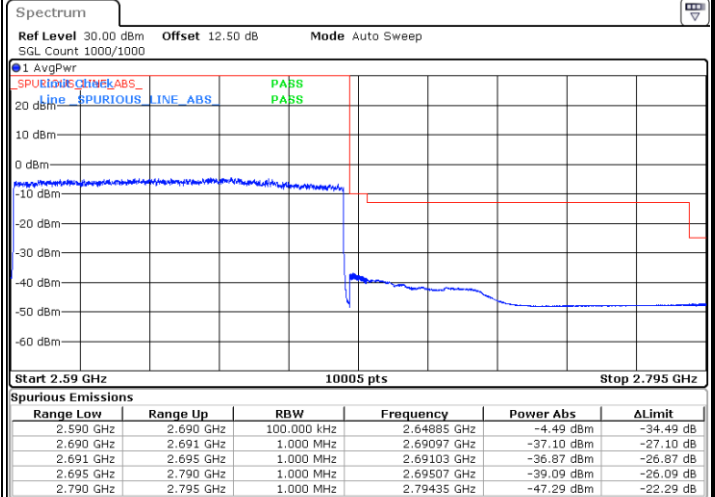
FR1 n41 / 100MHz / DFT-S OFDM / 16QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19,DEC.2020 11:32:01



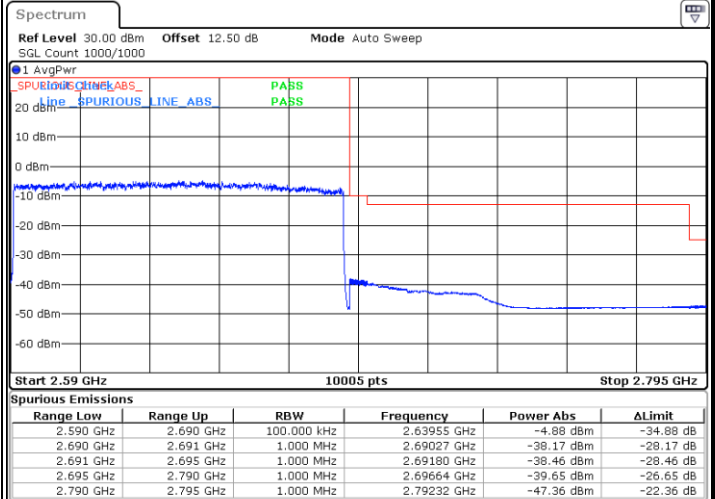
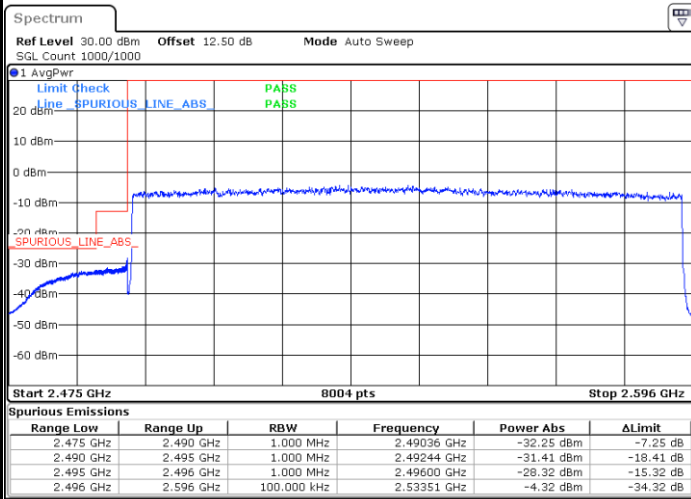
Date: 19,DEC.2020 11:38:28



FR1 n41 / 100MHz / DFT-S OFDM / 64QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19,DEC.2020 11:32:51

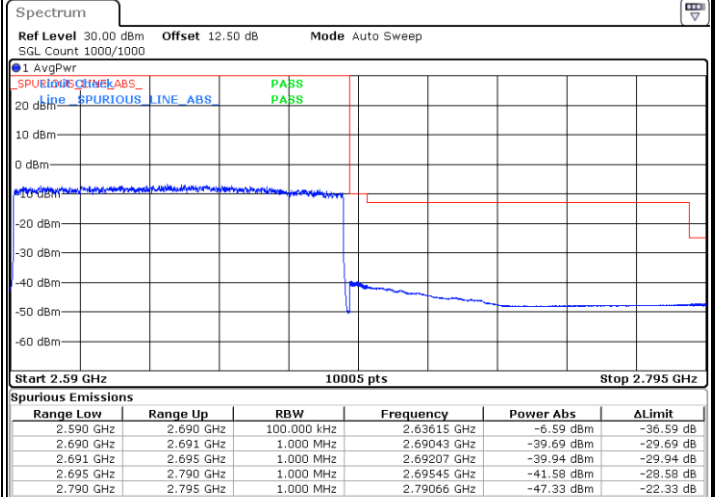
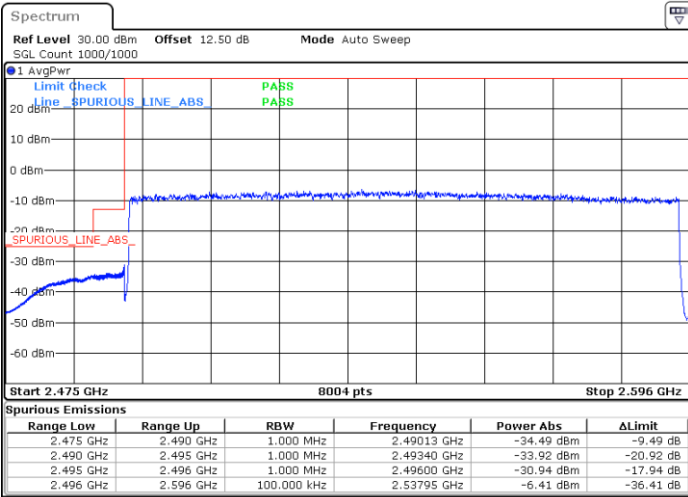
Date: 19,DEC.2020 11:37:16



FR1 n41 / 100MHz / DFT-S OFDM / 256QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19.DEC.2020 11:33:57

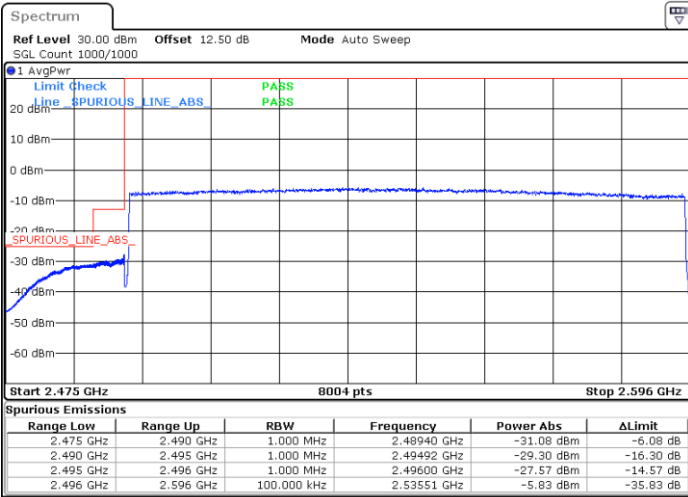
Date: 19.DEC.2020 11:35:55



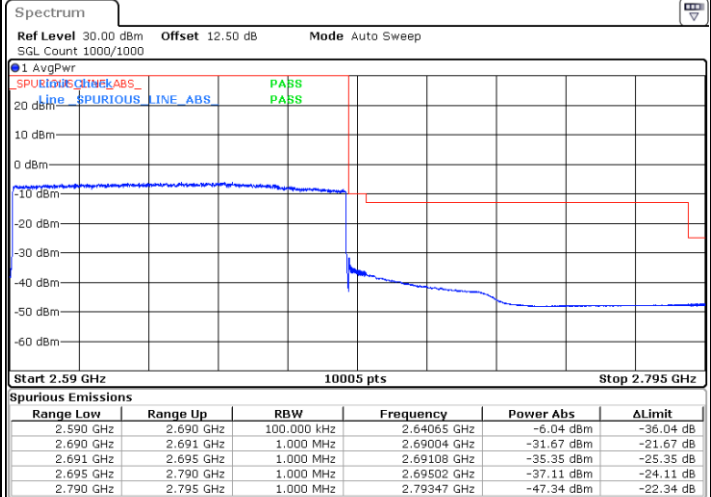
FR1 n41 / 100MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 19, DEC. 2020 11:27:36



Date: 19, DEC. 2020 11:42:20

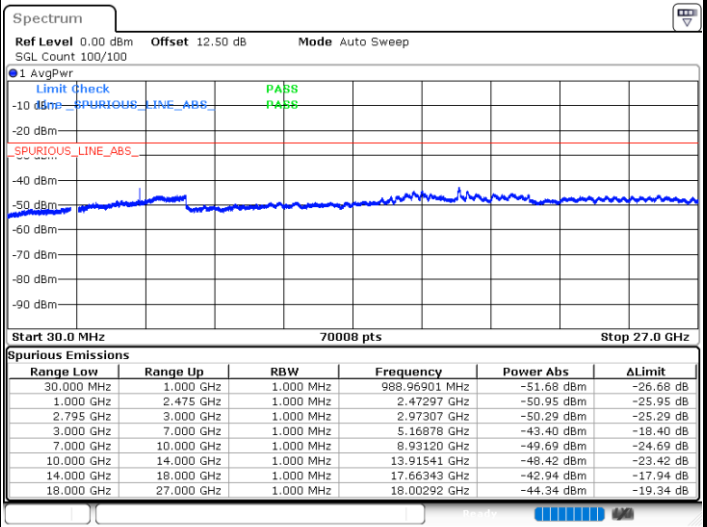
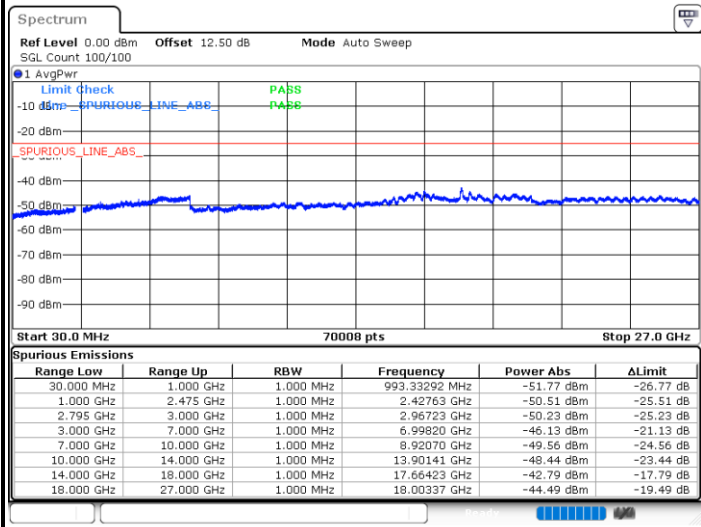


Conducted Spurious Emission

FR1 n41 / 20MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel

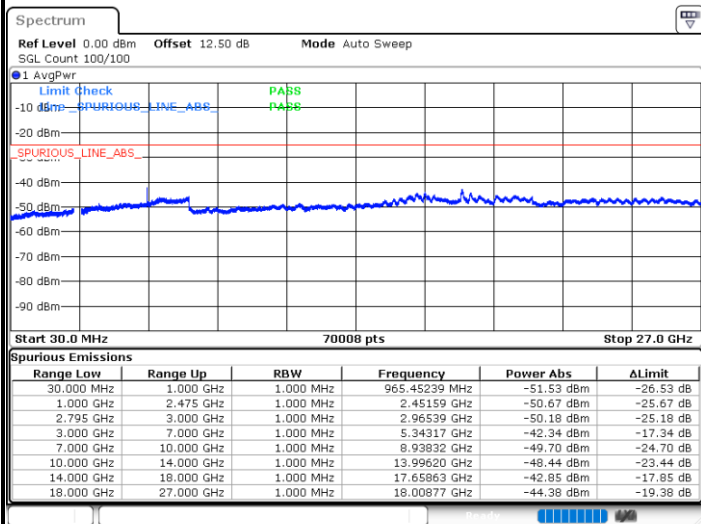
Middle Channel



Date: 19.DEC.2020 09:20:30

Date: 19.DEC.2020 09:44:12

Highest Channel



Date: 19.DEC.2020 09:45:35



Frequency Stability

Test Conditions		FR1 n41 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0201	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0018	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0208	
-30	Normal Voltage	0.0231	
20	Maximum Voltage	0.0020	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

- 1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.60 V. ; Maximum Voltage =4.45 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



FR1 n41_HPUE

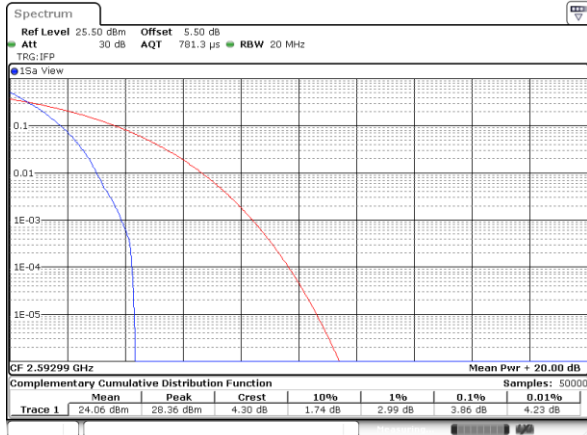
Peak-to-Average Ratio

Mode	FR1 n41 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	3.86	5.28	6.23	6.46	PASS
Mode	FR1 n41 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.49				PASS



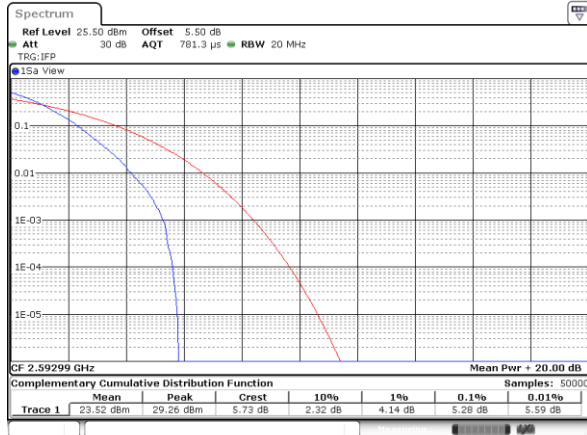
FR1 n41 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



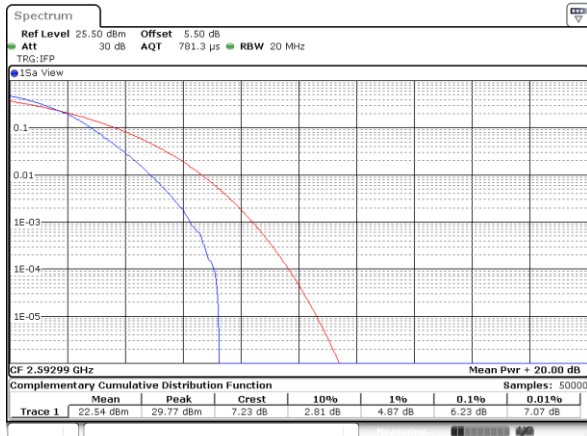
Date: 19. DEC. 2020 15:48:37

QPSK



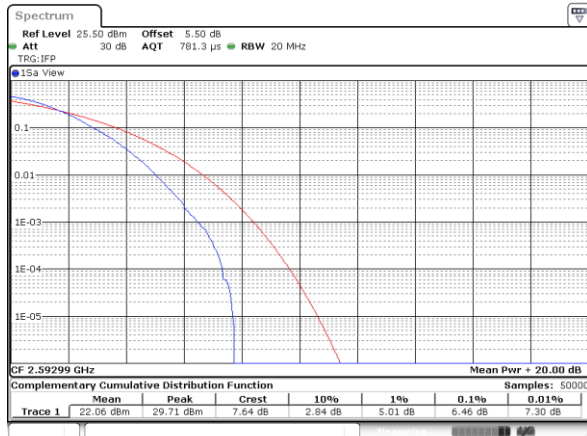
Date: 19. DEC. 2020 15:49:22

16QAM



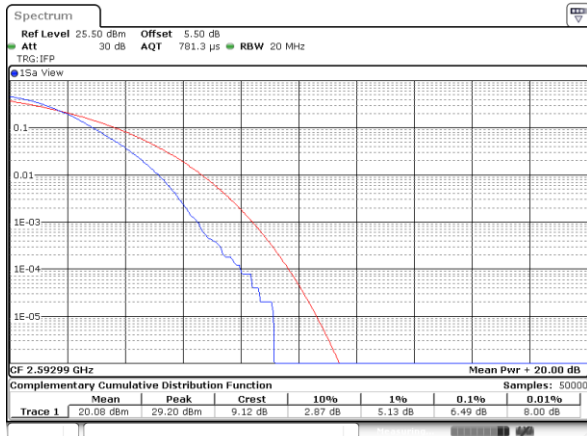
Date: 19. DEC. 2020 15:49:40

64QAM



Date: 19. DEC. 2020 15:50:10

256QAM



Date: 19. DEC. 2020 15:50:38



26dB Bandwidth

Mode	FR1 n41 : 26dB BW(MHz) / DFT-S OFDM							
BW	20MHz	30MHz	40MHz	50MHz	60MHz	80MHz	90MHz	100MHz
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK
Middle CH	18.78	27.63	38.12	48.05	60.42	79.76	88.47	99.10

Mode	FR1 n41 : 26dB BW(MHz) / CP OFDM							
BW	20MHz		30MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	19.14	19.10	28.95	28.89	40.20	40.12	49.65	49.75
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	19.38	20.06	28.95	28.83	40.28	40.36	49.75	49.65
BW	60MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	60.42	60.42	80.08	79.92	90.27	90.27	100.30	100.50
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	60.18	60.30	79.92	79.76	90.45	90.45	100.50	100.30