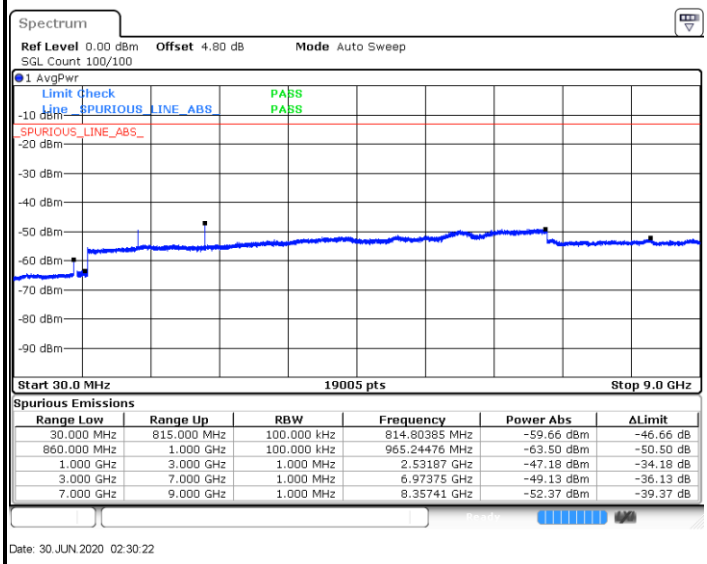
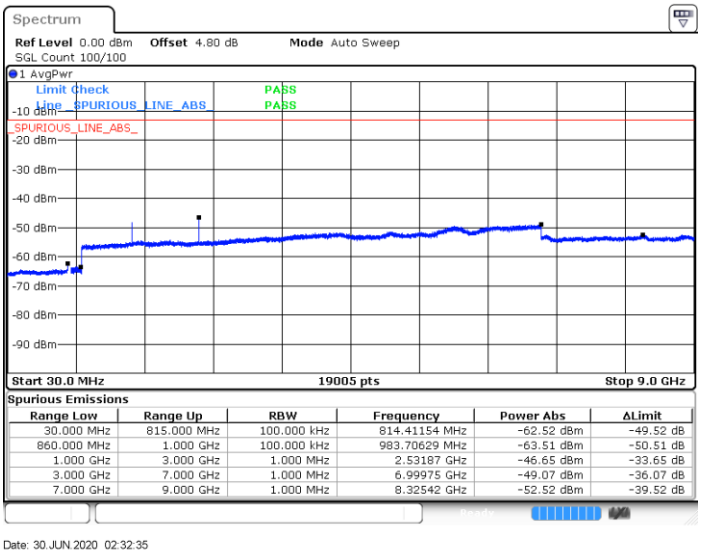
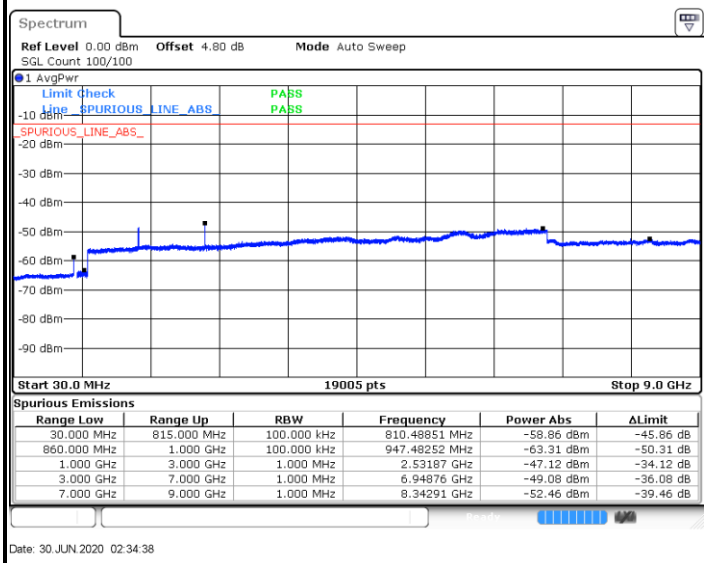
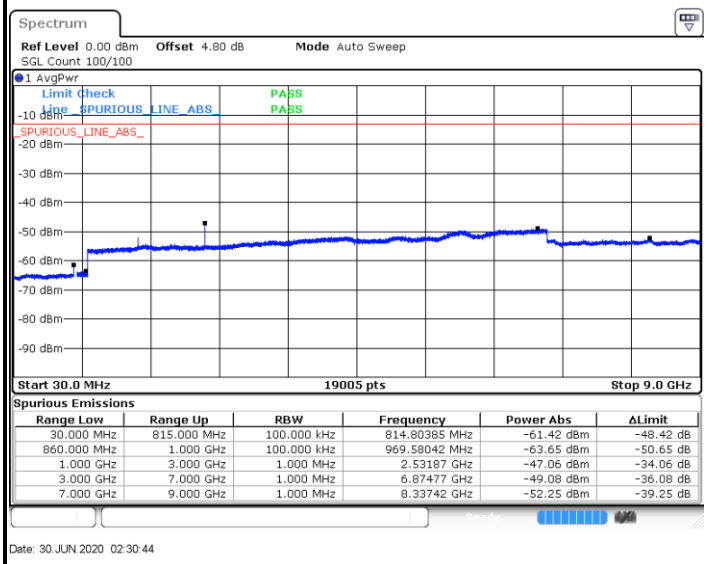
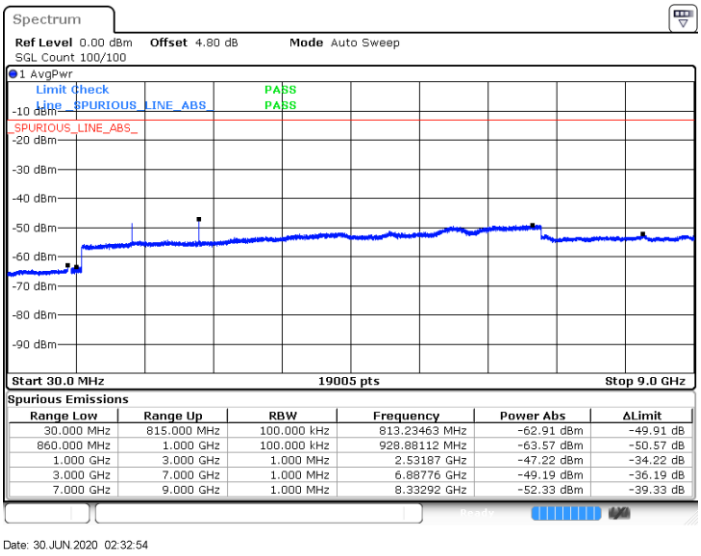
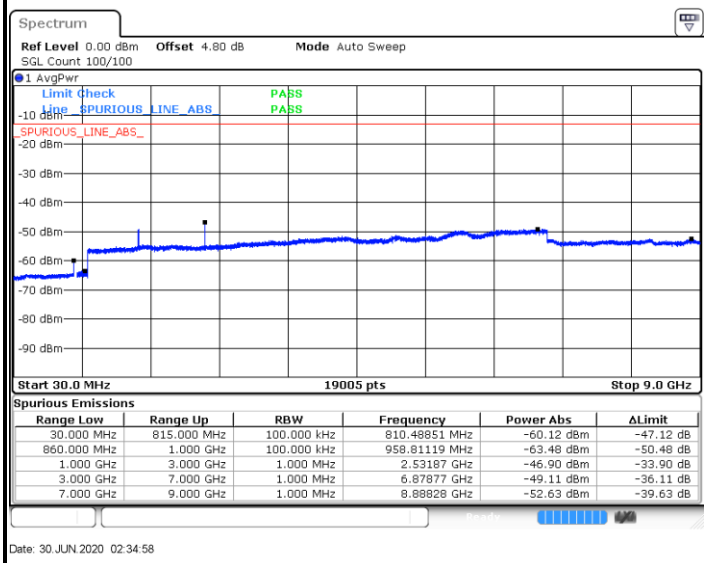
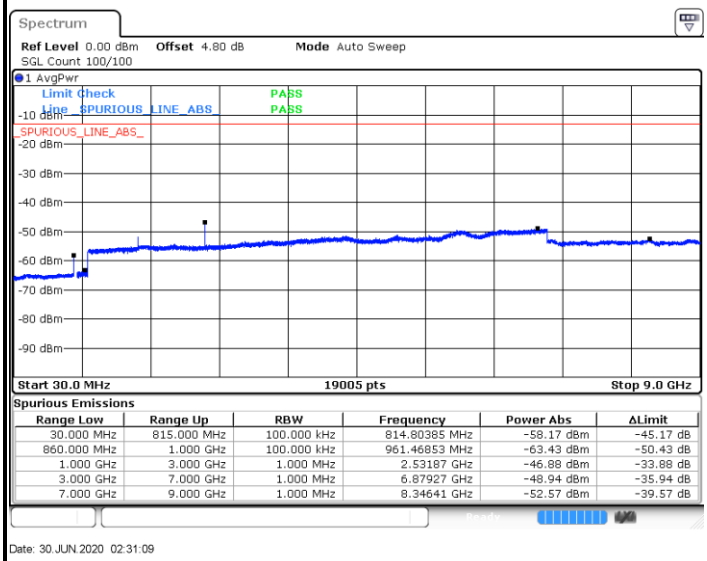
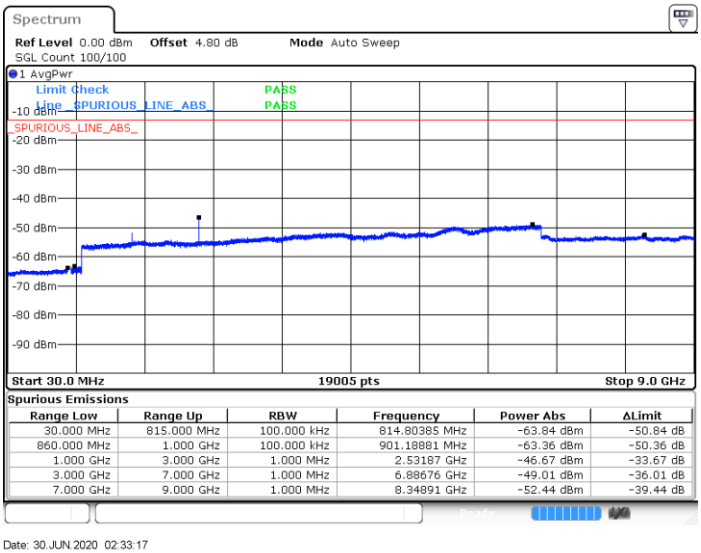
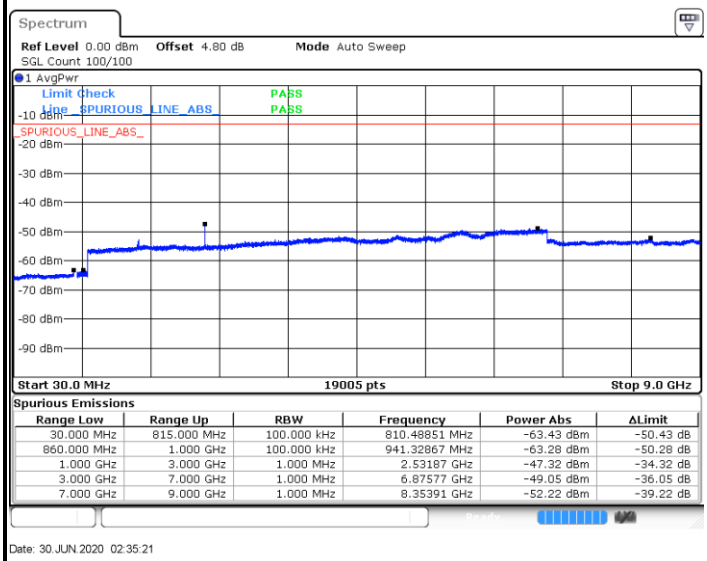
FR1 n5 / 20MHz / DFT-S OFDM / 16QAM	
Lowest Channel / 1RB0	**Middle Channel / 1RB0**
	
Highest Channel / 1RB0	
	

FR1 n5 / 20MHz / DFT-S OFDM / 64QAM	
Lowest Channel / 1RB0	**Middle Channel / 1RB0**
	
Highest Channel / 1RB0	
	

FR1 n5 / 20MHz / DFT-S OFDM / 256QAM	
Lowest Channel / 1RB0	**Middle Channel / 1RB0**
	
Highest Channel / 1RB0	
	

Frequency Stability

Test Conditions		FR1 n5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0007	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0038	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0050	
0	Normal Voltage	0.0044	
-10	Normal Voltage	0.0043	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0048	
20	Normal Voltage	0.0044	
20	Battery End Point	0.0012	

Note:

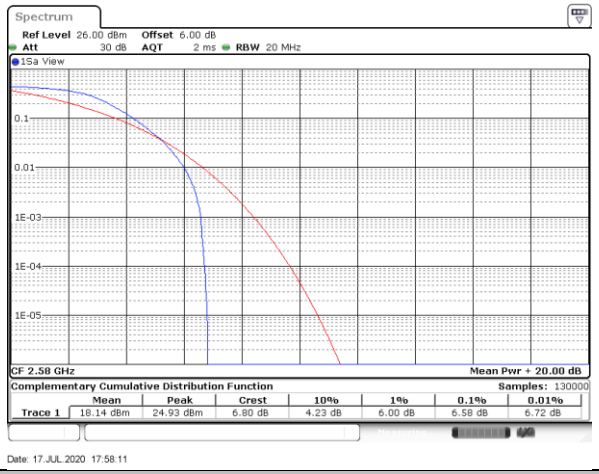
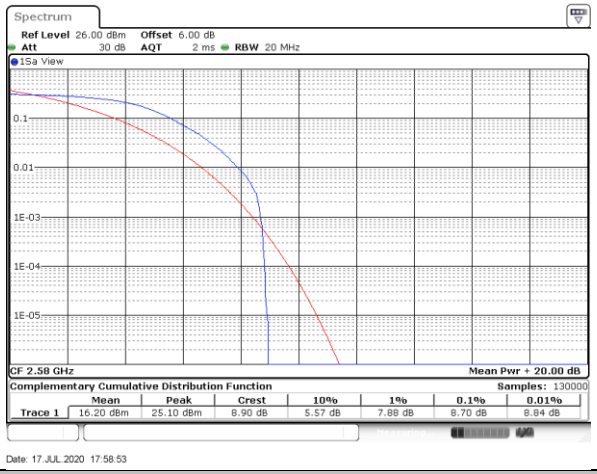
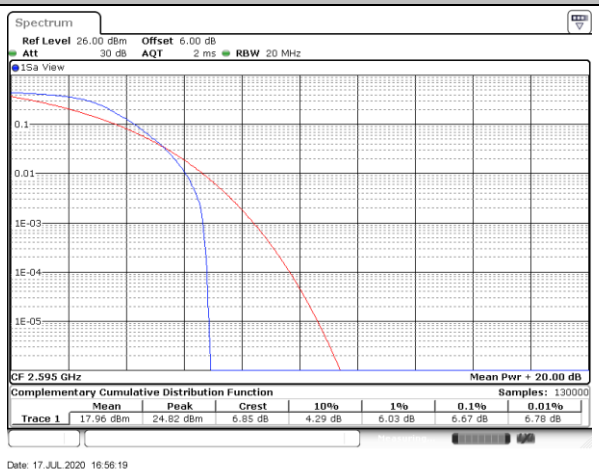
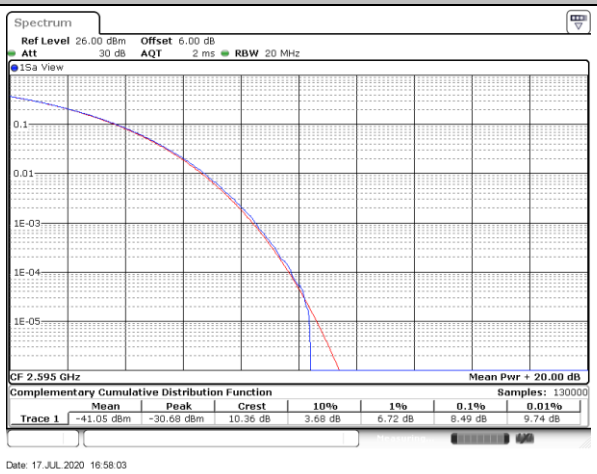
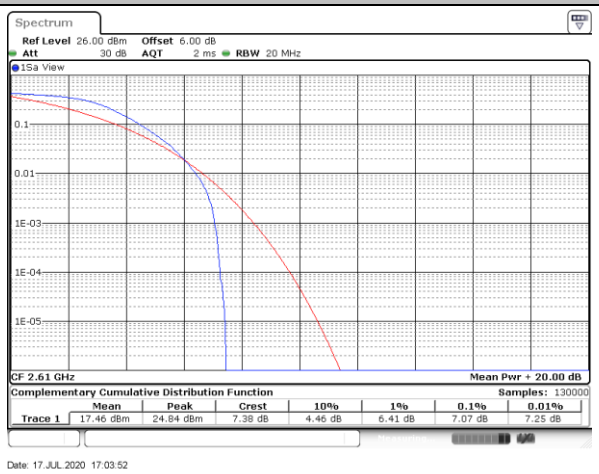
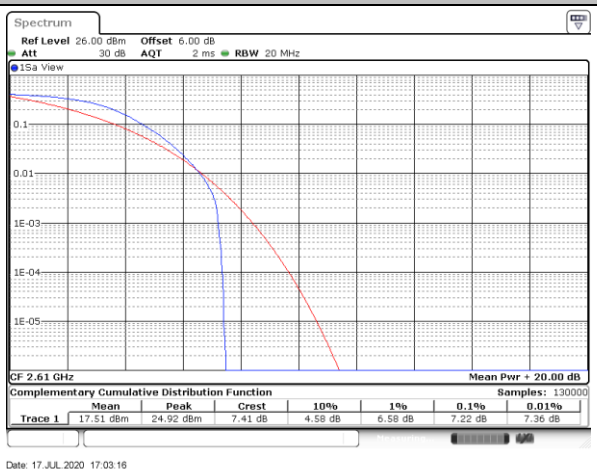
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.

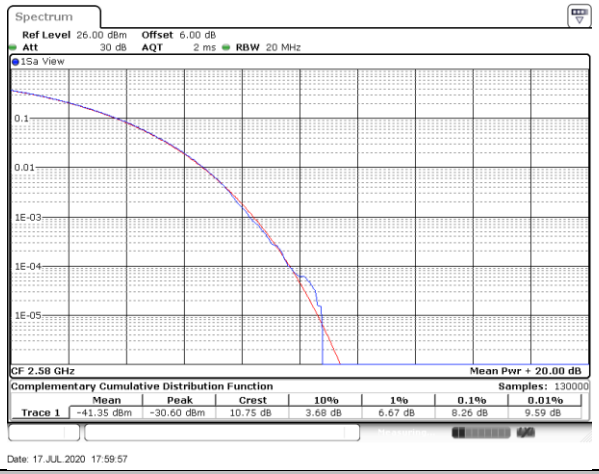
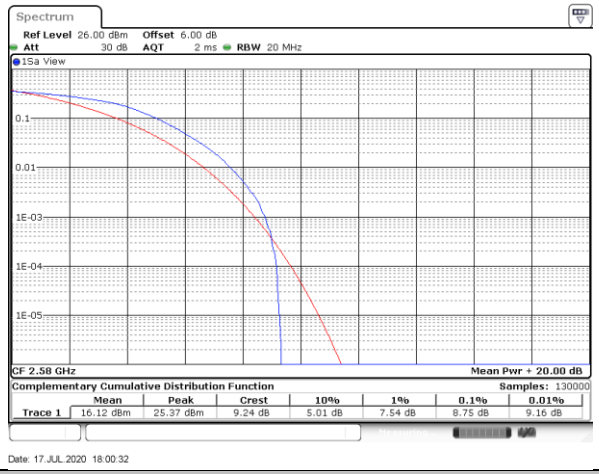
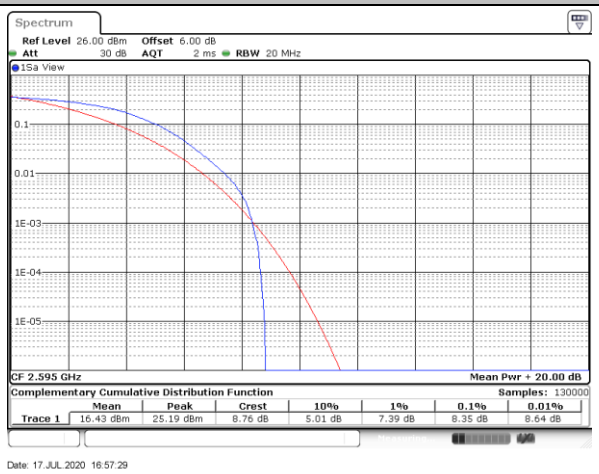
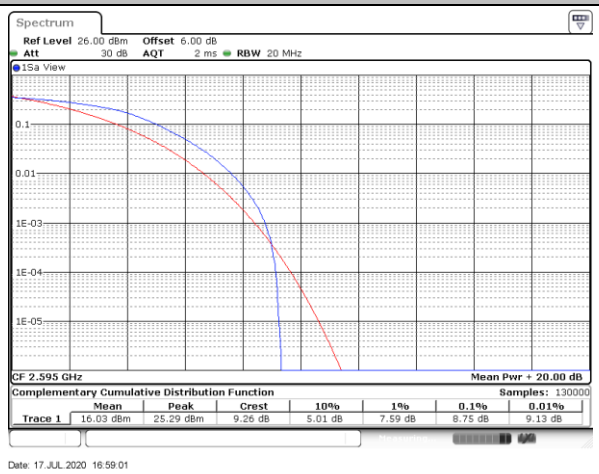
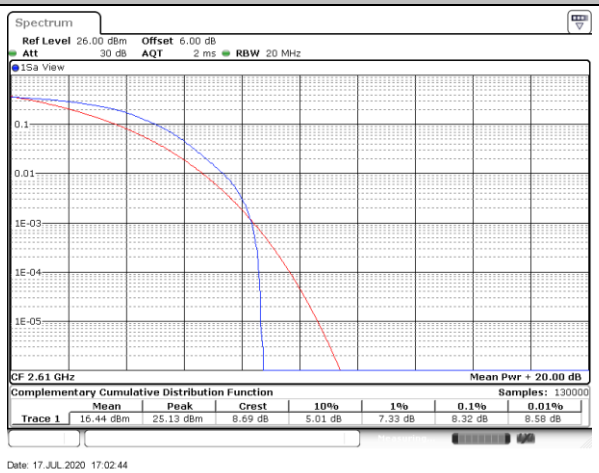
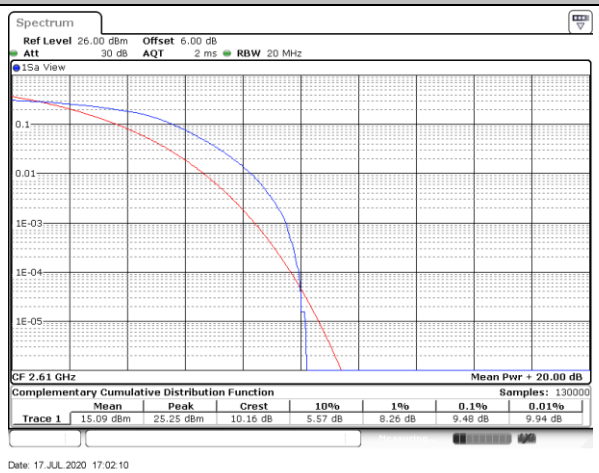
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

5G NR n38

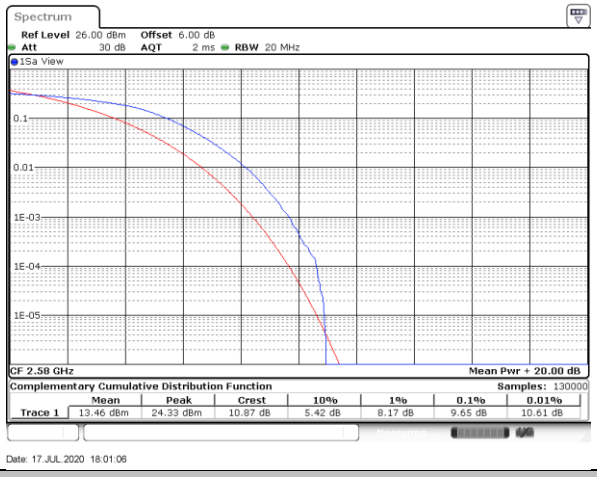
Peak-to-Average Ratio

Mode	FR1 n38 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Lowest CH	6.58	8.70	8.26	8.75	PASS
Middle CH	6.67	8.49	8.35	8.75	
Highest CH	7.07	7.22	8.32	9.48	
Mode	FR1 n38 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Lowest CH	9.65				PASS
Middle CH	9.01				
Highest CH	9.04				
Mode	FR1 n38 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	1 RB0	1 RB0	1 RB0	1 RB0	Result
Lowest CH	7.51	10.32	10.75	9.54	PASS
Middle CH	8.93	7.19	8.14	9.04	
Highest CH	7.07	7.22	8.32	9.48	
Mode	FR1 n38 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	1 RB0				Result
Lowest CH	9.39				PASS
Middle CH	8.49				
Highest CH	9.04				

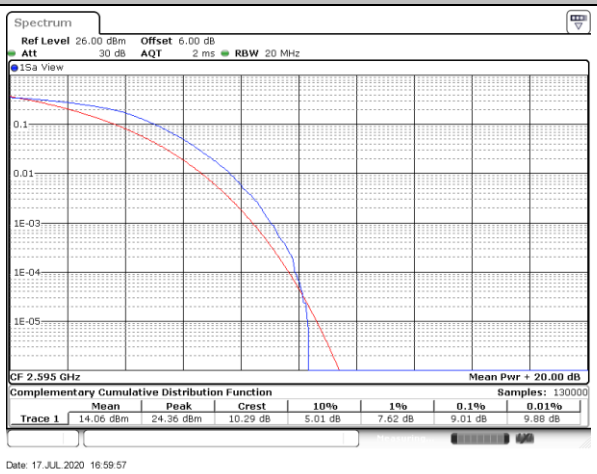
FR1 n38 / 20MHz / DFT-S OFDM	
PI/2 BPSK	**QPSK**
Lowest Channel / Full RB	**Lowest Channel / Full RB**
	
Middle Channel / Full RB	**Middle Channel / Full RB**
	
Highest Channel / Full RB	**Highest Channel / Full RB**
	

FR1 n38 / 20MHz / DFT-S OFDM	
16QAM	**64QAM**
Lowest Channel / Full RB	**Lowest Channel / Full RB**
	
Middle Channel / Full RB	**Middle Channel / Full RB**
	
Highest Channel / Full RB	**Highest Channel / Full RB**
	

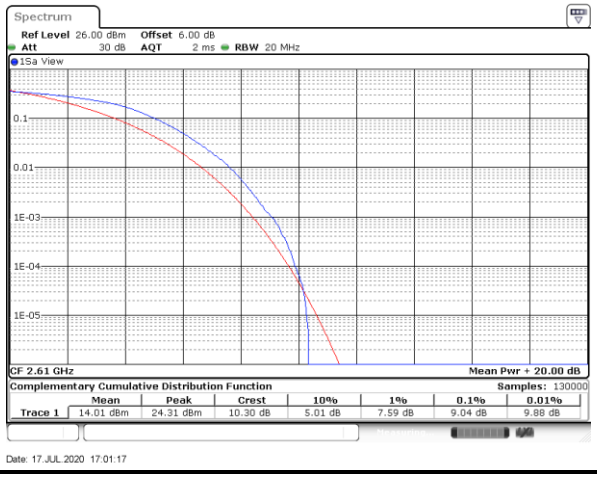
FR1 n38 / 20MHz / DFT-S OFDM
256QAM
Lowest Channel / Full RB

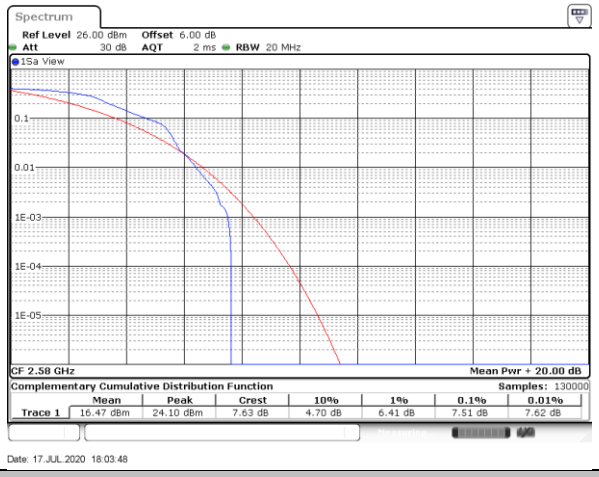
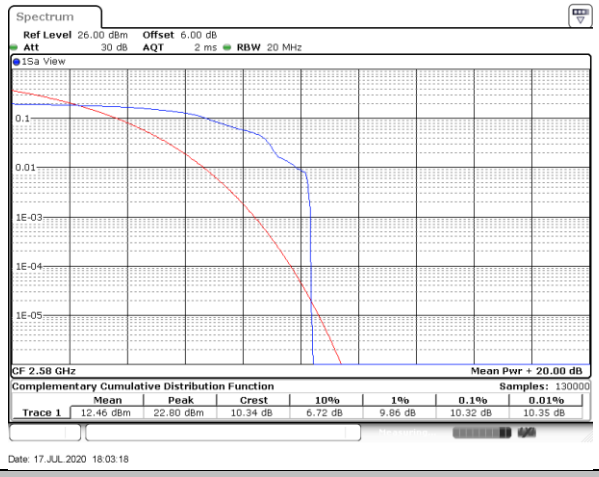
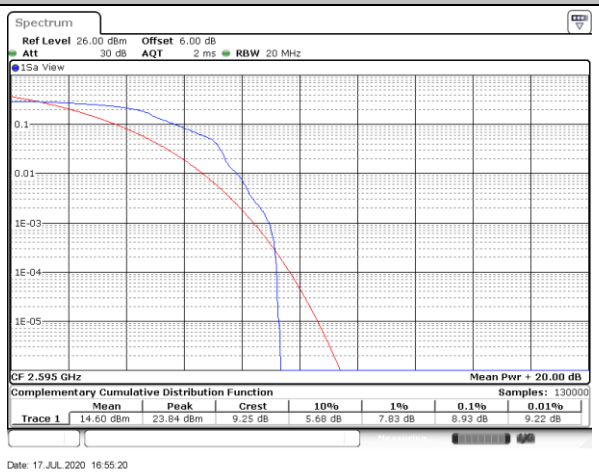
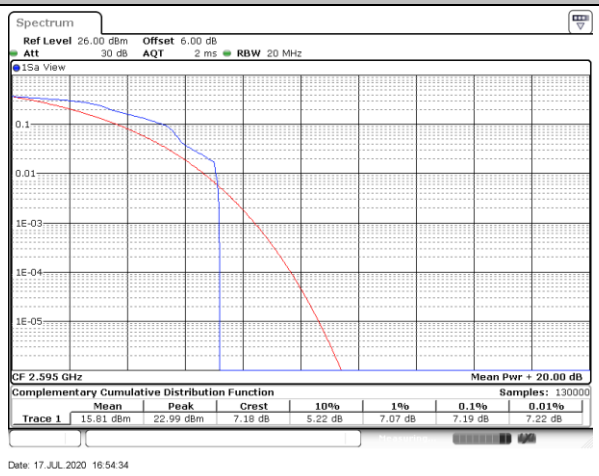
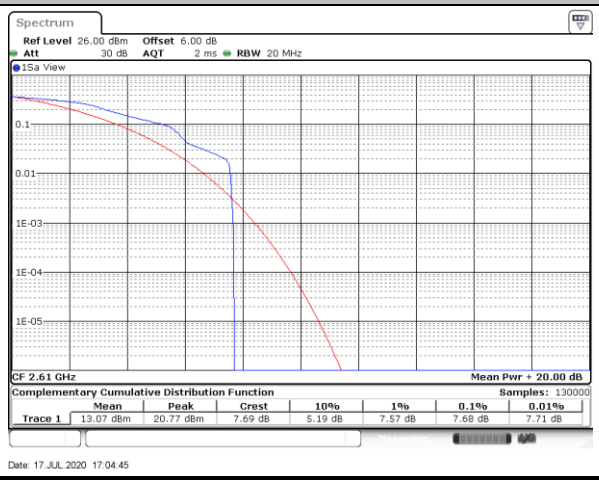


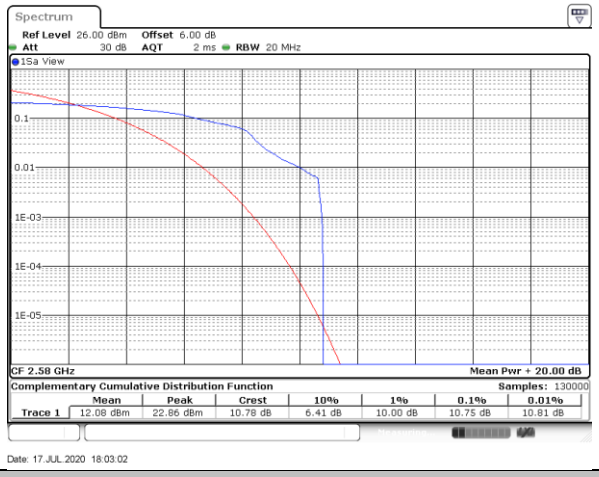
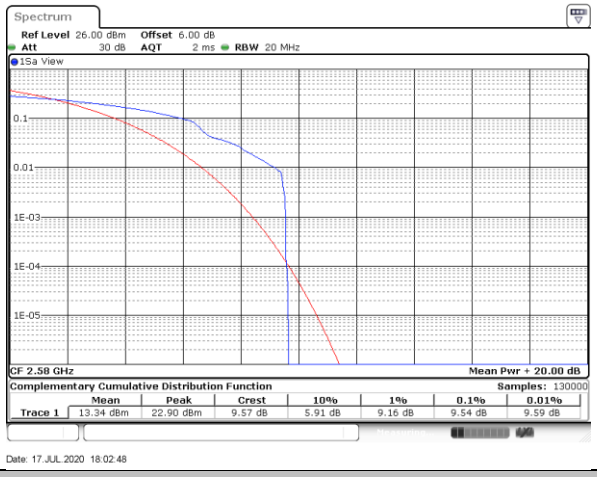
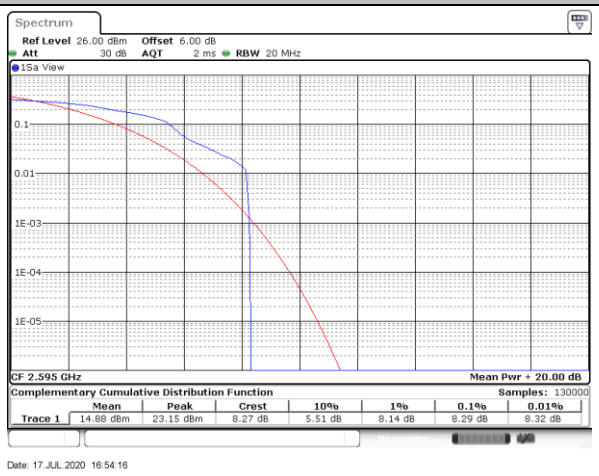
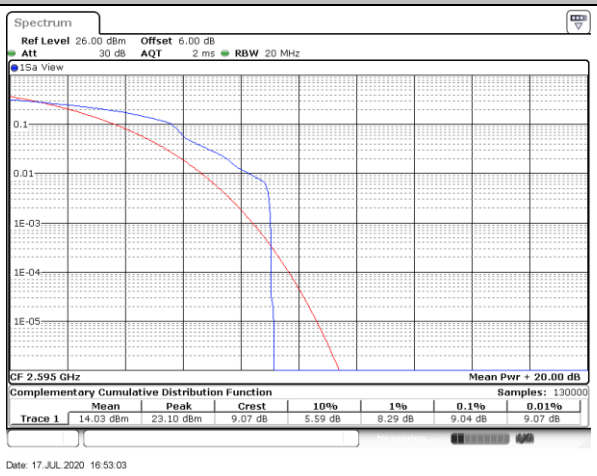
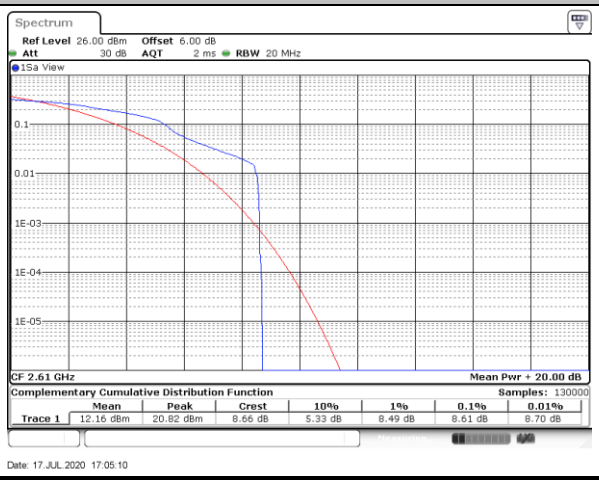
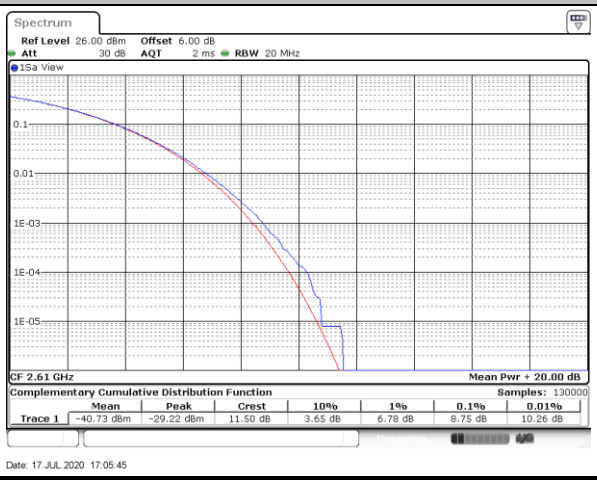
Middle Channel / Full RB



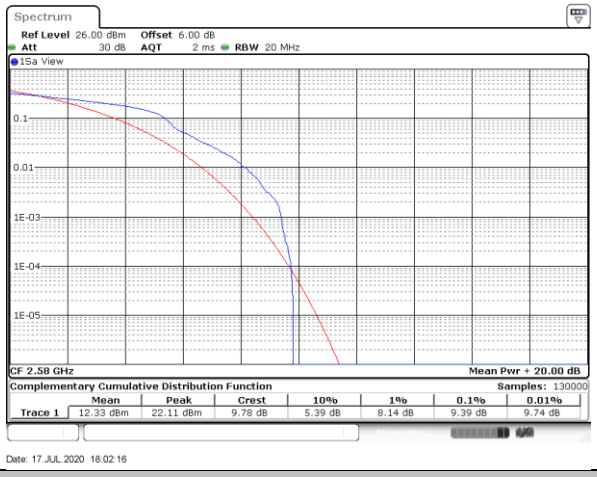
Highest Channel / Full RB



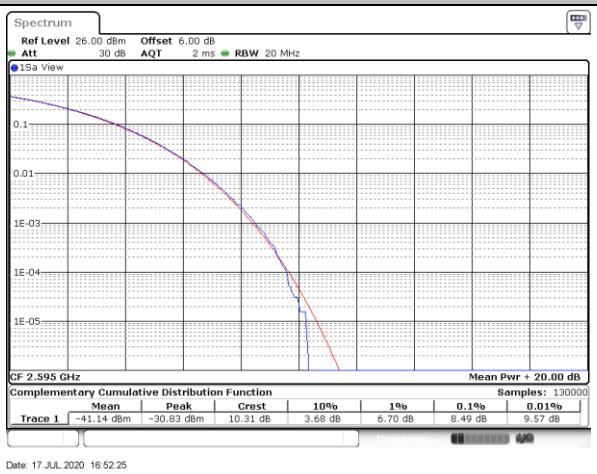
FR1 n38 / 20MHz / DFT-S OFDM	
PI/2 BPSK	**QPSK**
Lowest Channel / 1RB0	**Lowest Channel / 1RB0**
	
Middle Channel / 1RB0	**Middle Channel / 1RB0**
	
Highest Channel / 1RB0	**Highest Channel / 1RB0**
	

FR1 n38 / 20MHz / DFT-S OFDM	
16QAM	**64QAM**
Lowest Channel / 1RB0	**Lowest Channel / 1RB0**
	
Middle Channel / 1RB0	**Middle Channel / 1RB0**
	
Highest Channel / 1RB0	**Highest Channel / 1RB0**
	

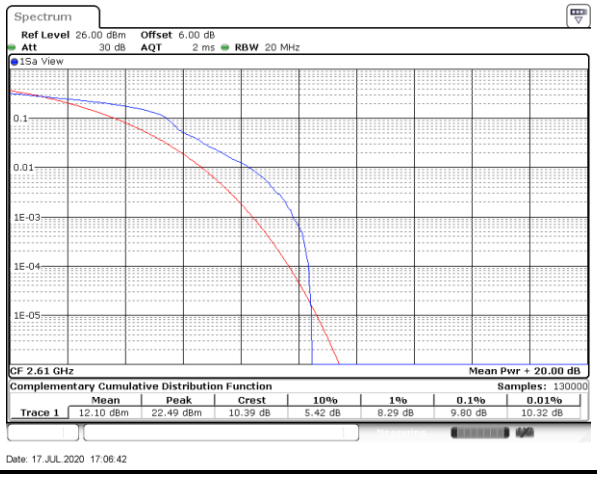
FR1 n38 / 20MHz / DFT-S OFDM
256QAM
Lowest Channel / 1RB0



Middle Channel / 1RB0

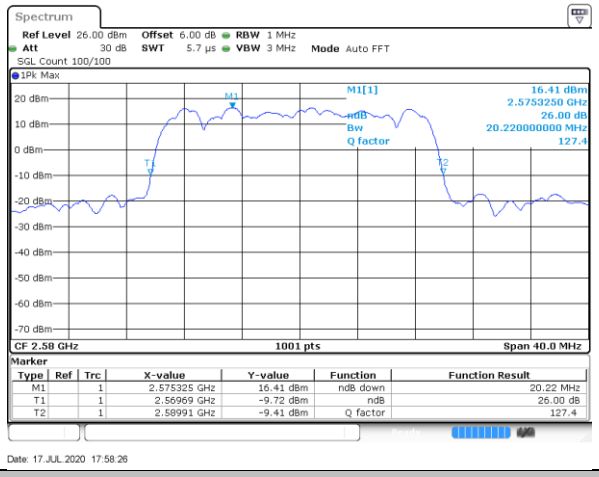
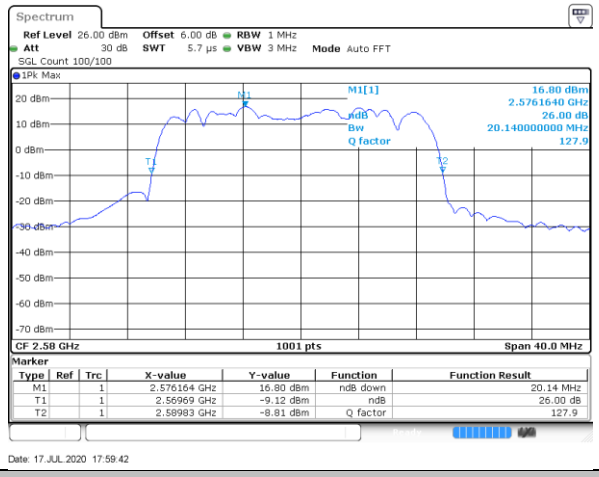
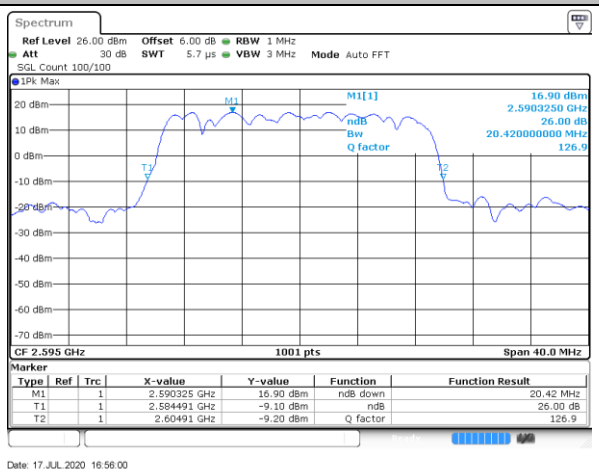
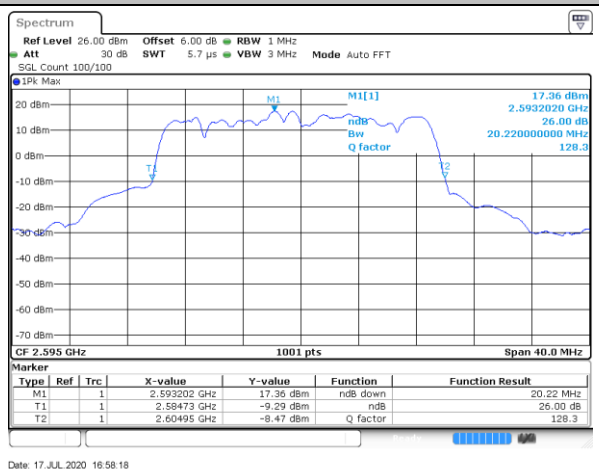
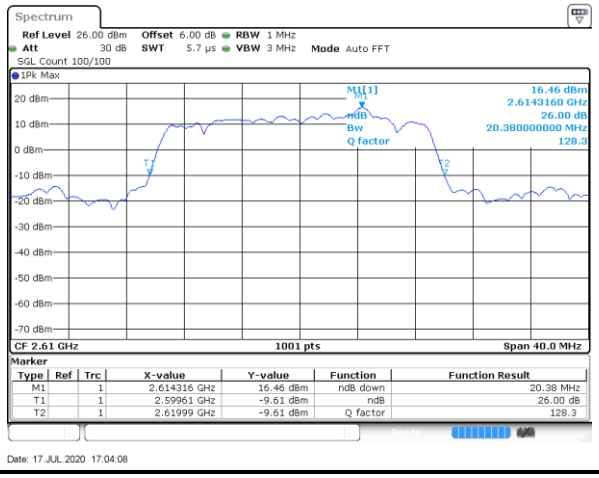
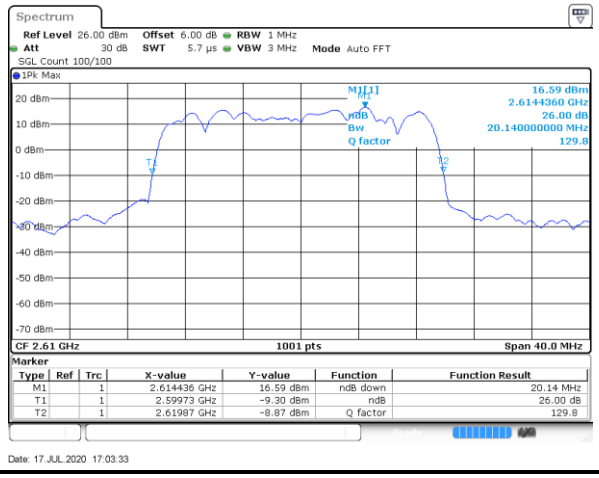


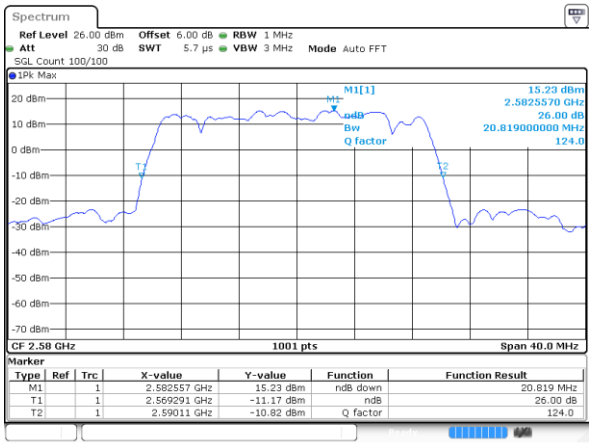
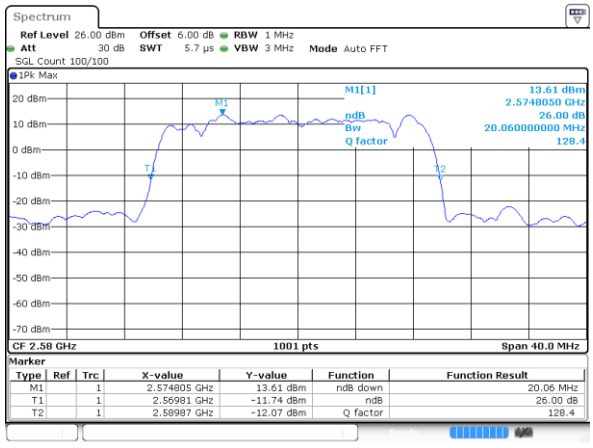
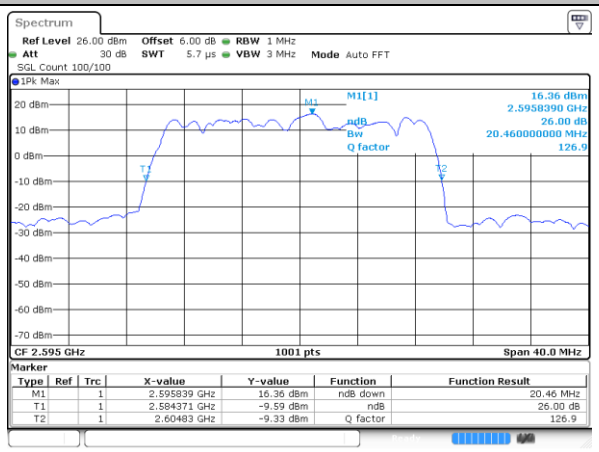
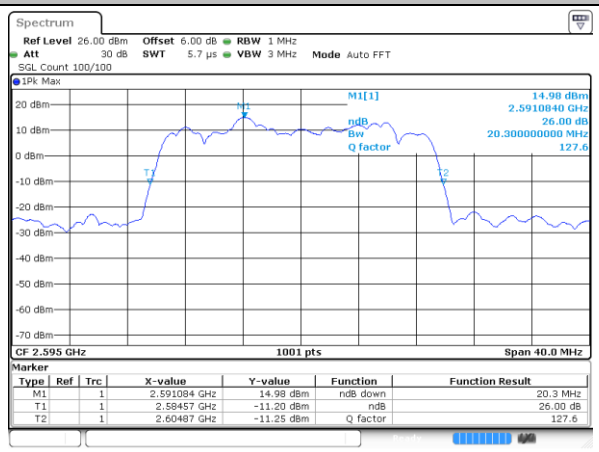
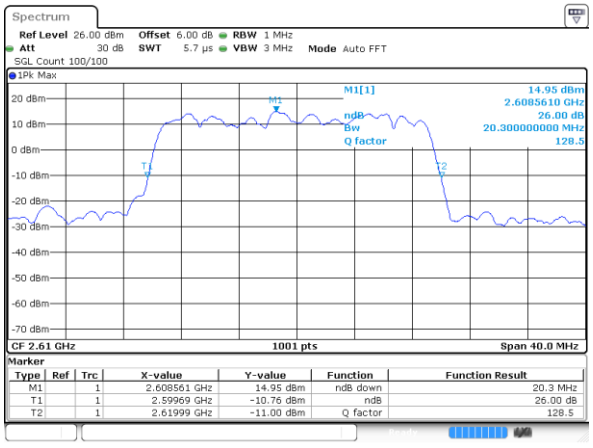
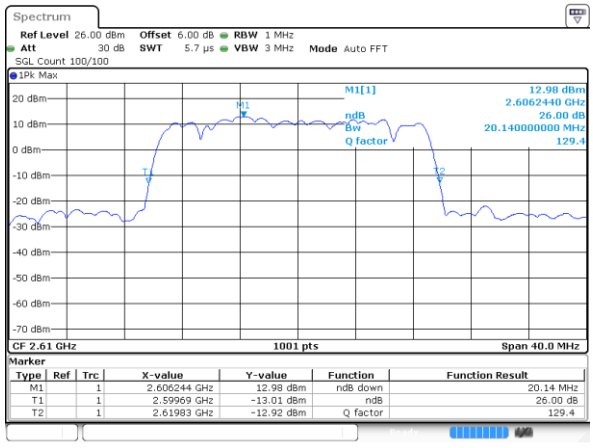
Highest Channel / 1RB0



26dB Bandwidth

Mode	FR1 n38 : 26dB BW(MHz) / DFT-S OFDM				
BW	20MHz				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM
Lowest CH	20.22	20.14	20.02	20.82	20.06
Middle CH	20.42	20.22	20.18	20.46	20.30
Highest CH	20.38	20.14	20.10	20.30	20.14

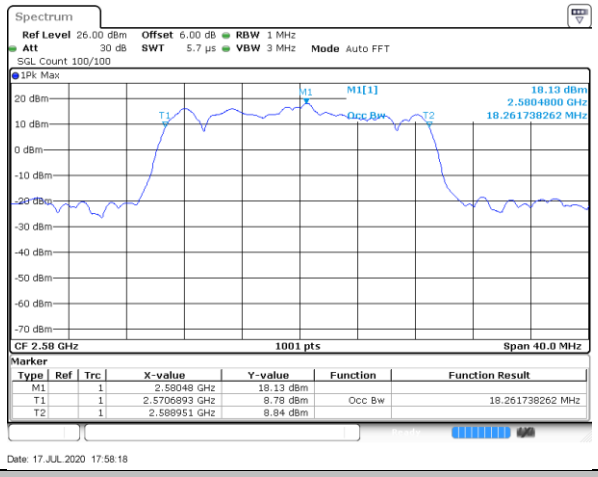
FR1 n38 / 20MHz / DFT-S OFDM	
PI/2 BPSK	**QPSK**
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

FR1 n38 / 20MHz / DFT-S OFDM	
64QAM	**256QAM**
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

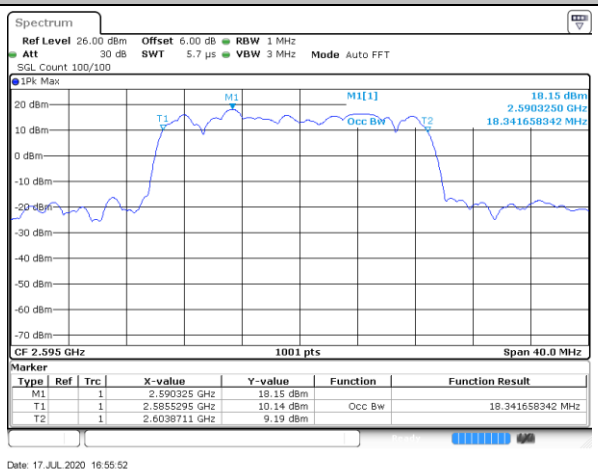
Occupied Bandwidth

Mode	FR1 n38 : 99%OBW(MHz) / DFT-S OFDM				
BW	20MHz				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM
Lowest CH	18.26	18.30	18.42	18.30	18.46
Middle CH	18.34	18.58	18.30	18.22	18.50
Highest CH	18.74	18.58	18.42	18.14	18.34

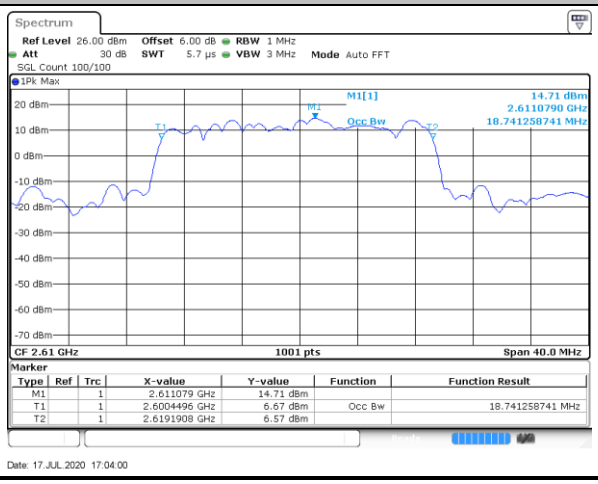
FR1 n38 / 20MHz / DFT-S OFDM
PI/2 BPSK
Lowest Channel

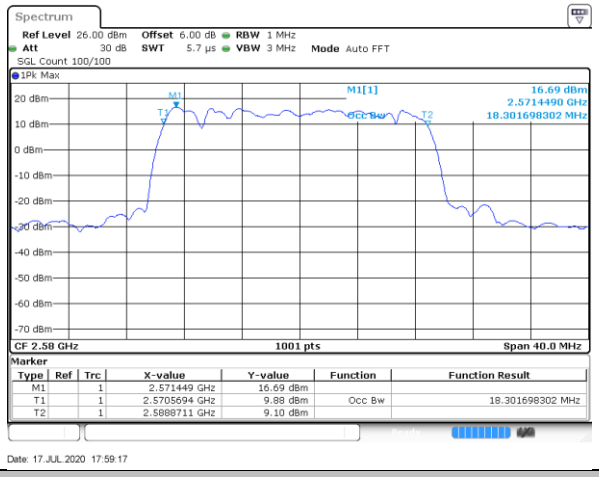
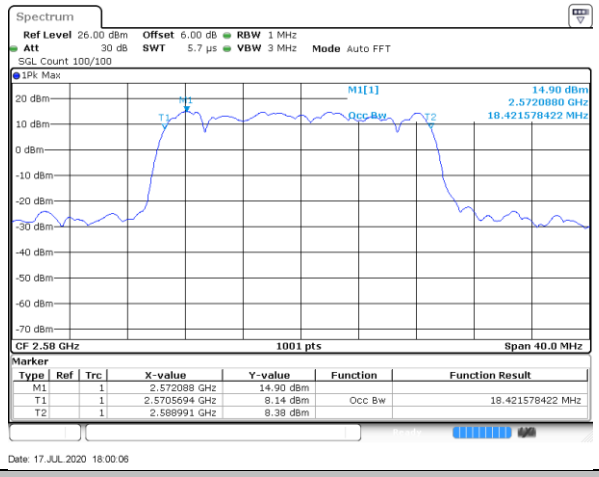
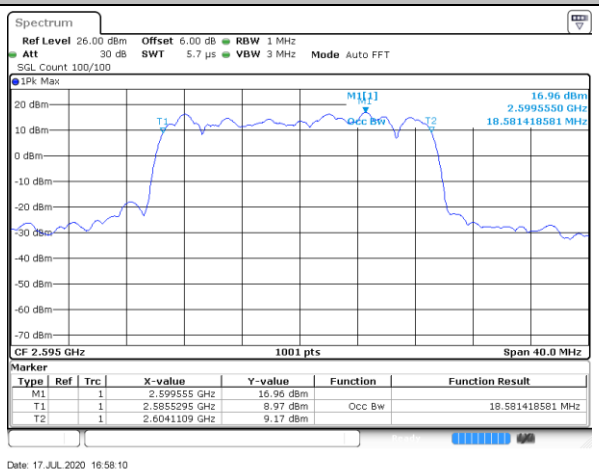
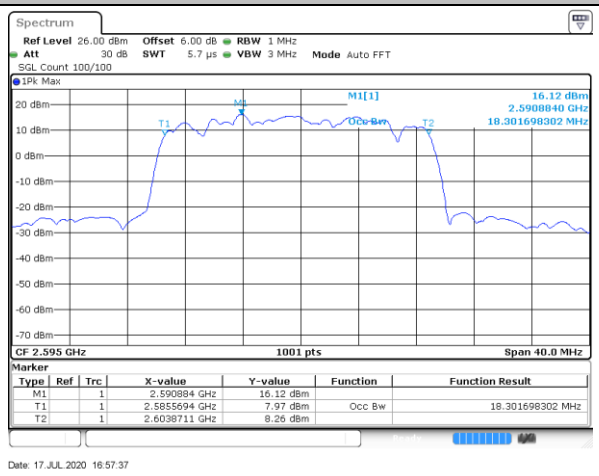
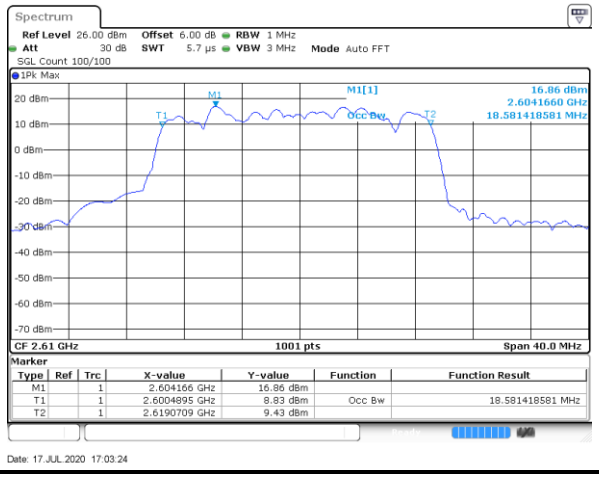
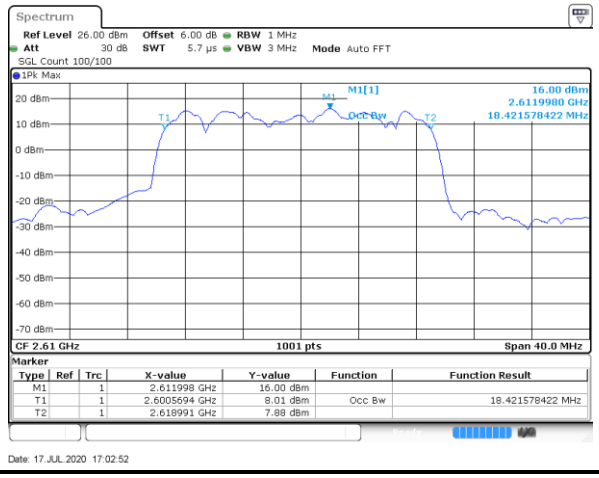


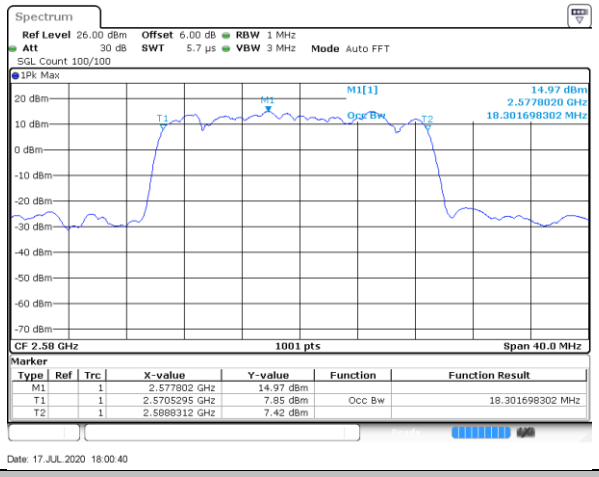
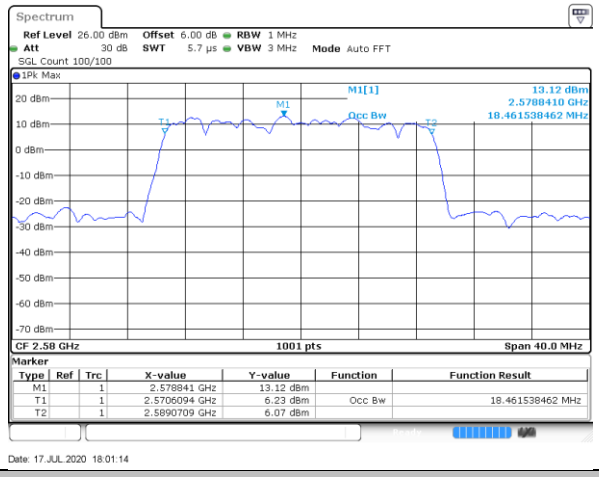
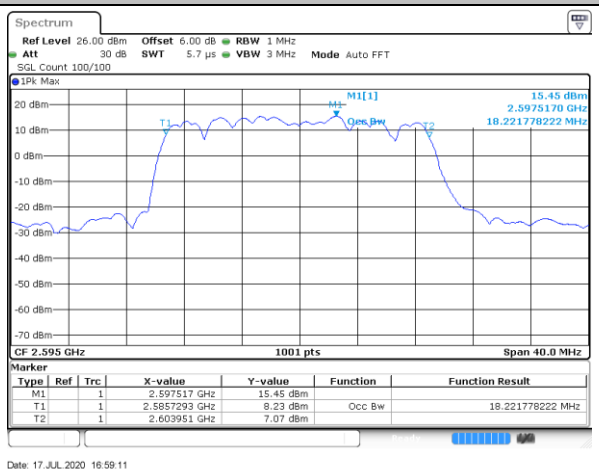
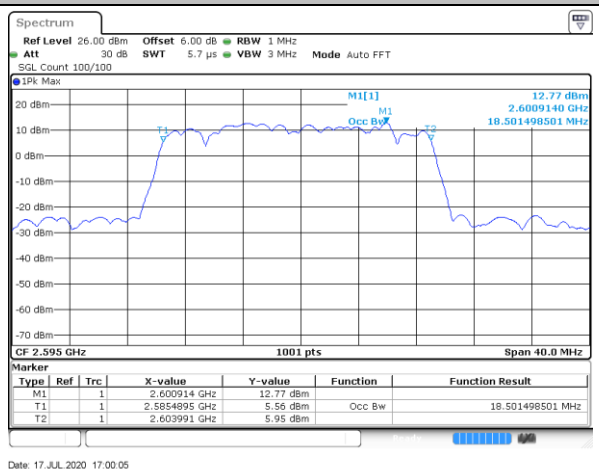
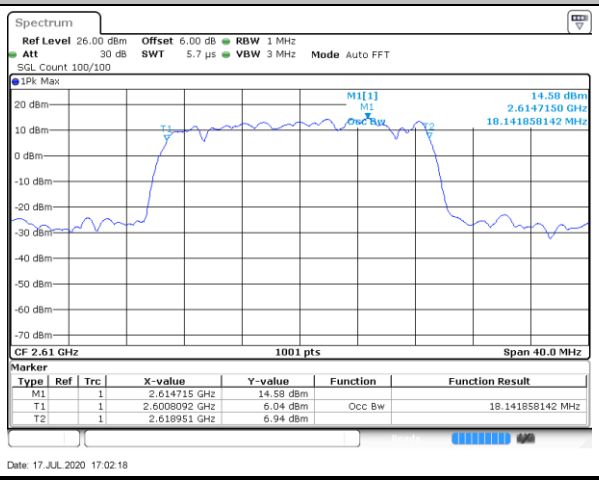
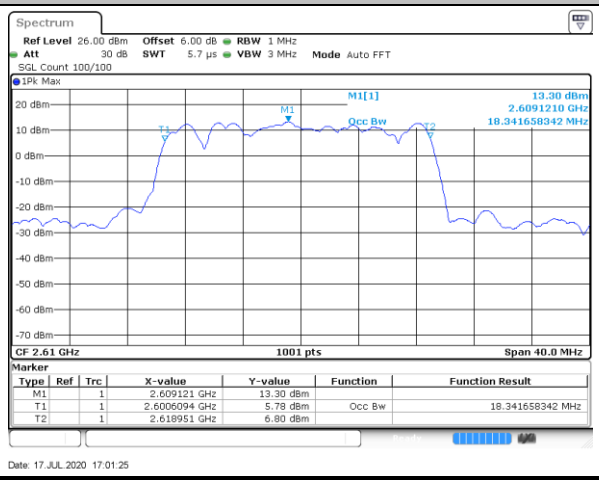
Middle Channel



Highest Channel



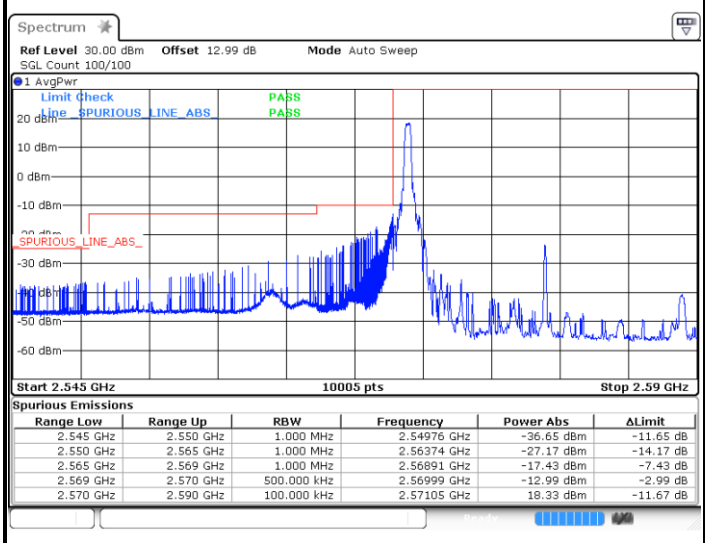
FR1 n38 / 20MHz / DFT-S OFDM	
QPSK	**16QAM**
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

FR1 n38 / 20MHz / DFT-S OFDM	
64QAM	**256QAM**
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

Conducted Band Edge

FR1 n38 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.545 GHz	2.550 GHz	1.000 MHz	2.54976 GHz	-36.65 dBm	-11.65 dB
2.550 GHz	2.565 GHz	1.000 MHz	2.56374 GHz	-27.17 dBm	-14.17 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56891 GHz	-17.43 dBm	-7.43 dB
2.569 GHz	2.570 GHz	500.000 kHz	2.56999 GHz	-12.99 dBm	-2.99 dB
2.570 GHz	2.590 GHz	100.000 kHz	2.57105 GHz	18.33 dBm	-11.67 dB

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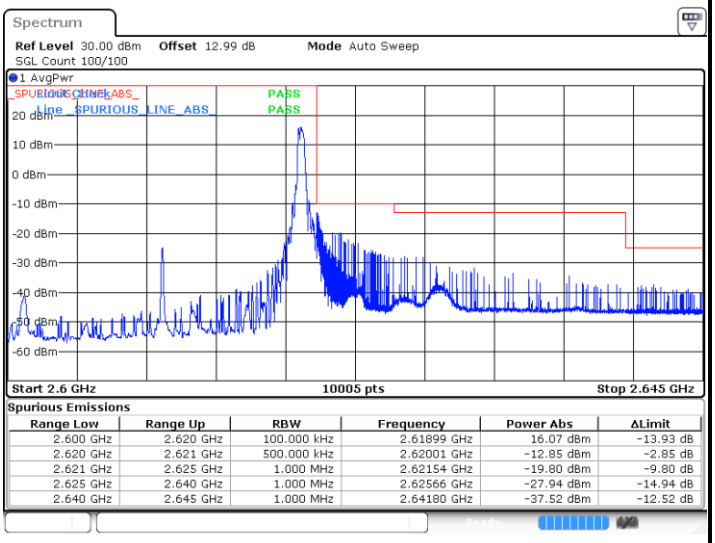
Highest Band Edge / 1RBMAX



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.600 GHz	2.620 GHz	100.000 kHz	2.61899 GHz	16.07 dBm	-13.93 dB
2.620 GHz	2.621 GHz	500.000 kHz	2.62001 GHz	-12.85 dBm	-2.85 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62154 GHz	-19.80 dBm	-9.80 dB
2.625 GHz	2.640 GHz	1.000 MHz	2.62566 GHz	-27.94 dBm	-14.94 dB
2.640 GHz	2.645 GHz	1.000 MHz	2.64180 GHz	-37.52 dBm	-12.52 dB

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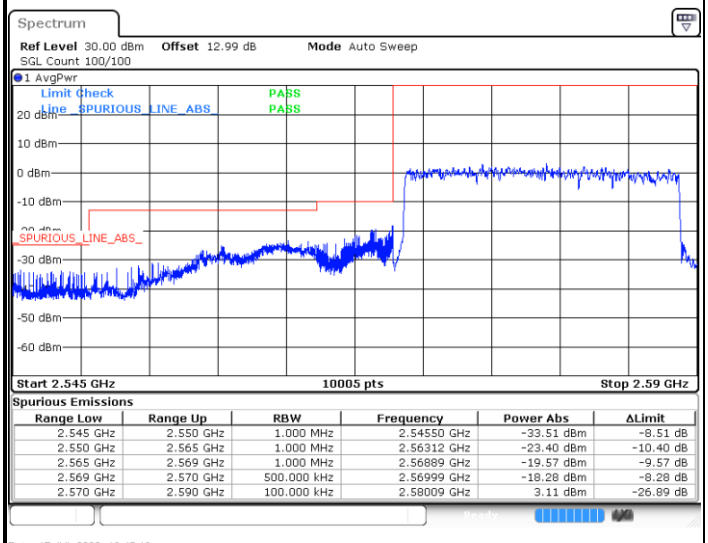
Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.545 GHz	2.550 GHz	1.000 MHz	2.54550 GHz	-33.51 dBm	-8.51 dB
2.550 GHz	2.565 GHz	1.000 MHz	2.56312 GHz	-23.40 dBm	-10.40 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56889 GHz	-19.57 dBm	-9.57 dB
2.569 GHz	2.570 GHz	500.000 kHz	2.56999 GHz	-18.28 dBm	-8.28 dB
2.570 GHz	2.590 GHz	100.000 kHz	2.58009 GHz	3.11 dBm	-26.89 dB

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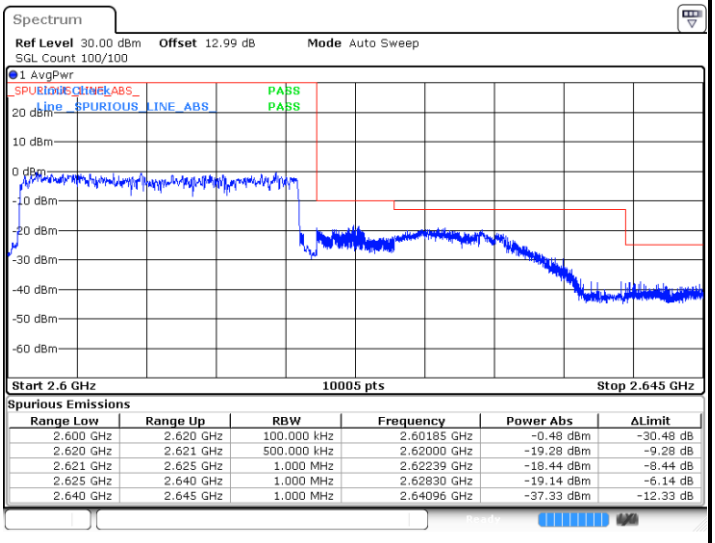
Highest Band Edge / Full RB



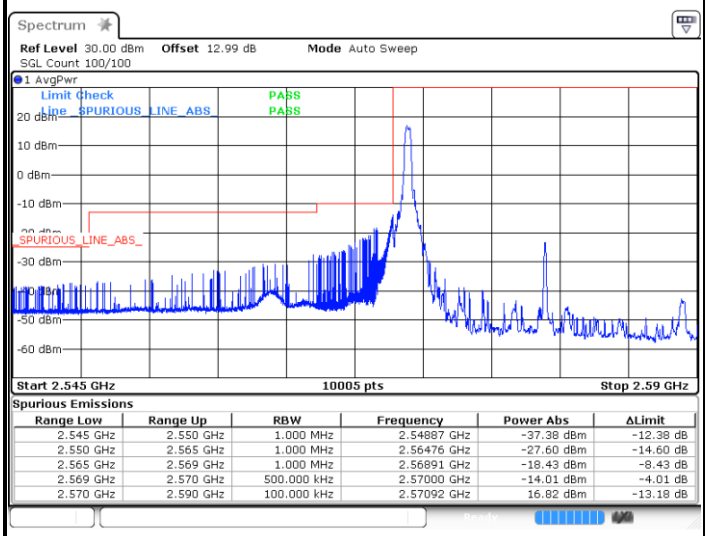
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.600 GHz	2.620 GHz	100.000 kHz	2.60185 GHz	-0.48 dBm	-30.48 dB
2.620 GHz	2.621 GHz	500.000 kHz	2.62000 GHz	-19.28 dBm	-9.28 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62239 GHz	-18.44 dBm	-8.44 dB
2.625 GHz	2.640 GHz	1.000 MHz	2.62830 GHz	-19.14 dBm	-6.14 dB
2.640 GHz	2.645 GHz	1.000 MHz	2.64096 GHz	-37.33 dBm	-12.33 dB

Date: 17.JUL.2020 17:51:56

FR1 n38 / 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

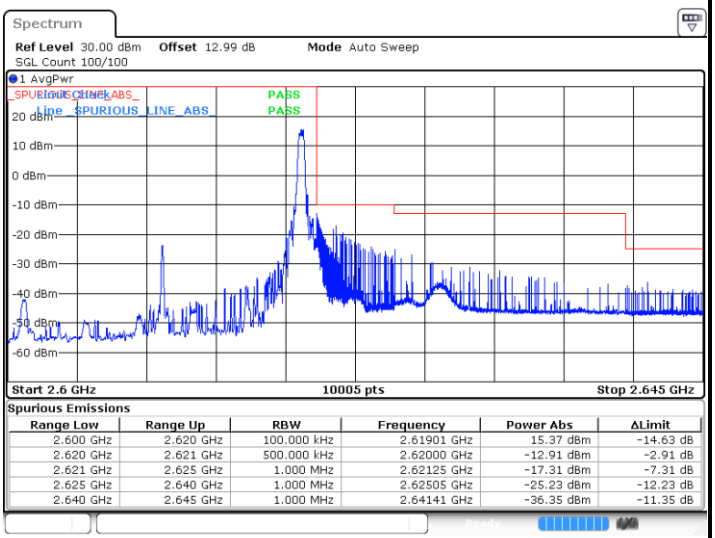


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.545 GHz	2.550 GHz	1.000 MHz	2.54887 GHz	-37.38 dBm	-12.38 dB
2.550 GHz	2.565 GHz	1.000 MHz	2.56476 GHz	-27.60 dBm	-14.60 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56891 GHz	-18.43 dBm	-8.43 dB
2.569 GHz	2.570 GHz	500.000 kHz	2.57000 GHz	-14.01 dBm	-4.01 dB
2.570 GHz	2.590 GHz	100.000 kHz	2.57092 GHz	16.82 dBm	-13.18 dB

Date: 17.JUL.2020 16:18:14

Highest Band Edge / 1RBMAX



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.600 GHz	2.620 GHz	100.000 kHz	2.61901 GHz	15.37 dBm	-14.63 dB
2.620 GHz	2.621 GHz	500.000 kHz	2.62000 GHz	-12.91 dBm	-2.91 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62125 GHz	-17.31 dBm	-7.31 dB
2.625 GHz	2.640 GHz	1.000 MHz	2.62505 GHz	-25.23 dBm	-12.23 dB
2.640 GHz	2.645 GHz	1.000 MHz	2.64141 GHz	-36.35 dBm	-11.35 dB

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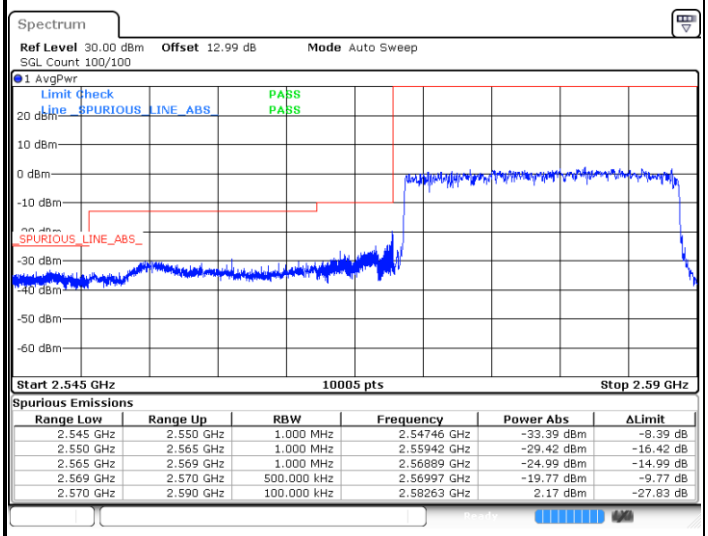
Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.545 GHz	2.550 GHz	1.000 MHz	2.54746 GHz	-33.39 dBm	-8.39 dB
2.550 GHz	2.565 GHz	1.000 MHz	2.55942 GHz	-29.42 dBm	-16.42 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56889 GHz	-24.99 dBm	-14.99 dB
2.569 GHz	2.570 GHz	500.000 kHz	2.56997 GHz	-19.77 dBm	-9.77 dB
2.570 GHz	2.590 GHz	100.000 kHz	2.58263 GHz	2.17 dBm	-27.83 dB

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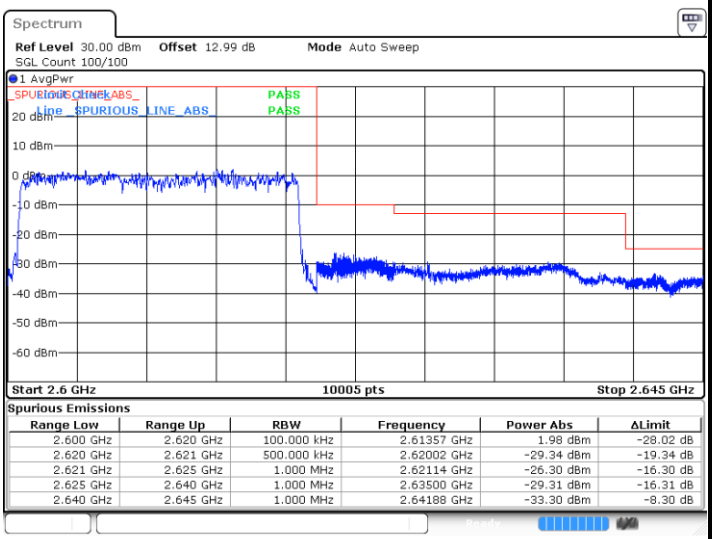
Highest Band Edge / Full RB



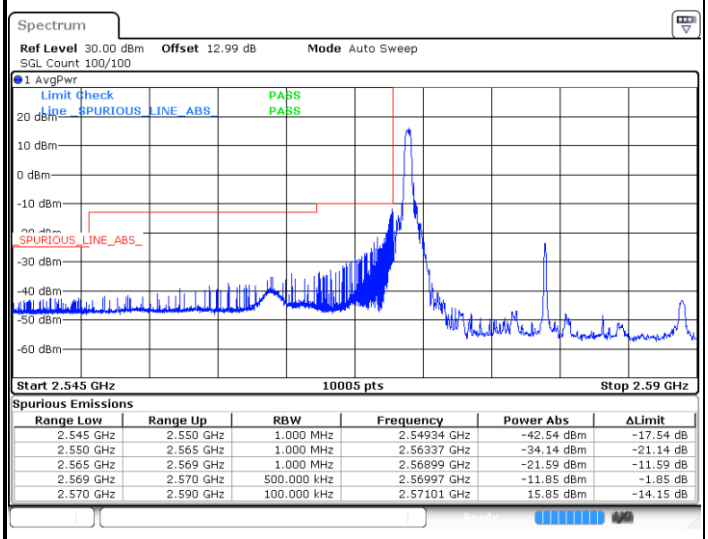
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.600 GHz	2.620 GHz	100.000 kHz	2.61357 GHz	1.98 dBm	-28.02 dB
2.620 GHz	2.621 GHz	500.000 kHz	2.62002 GHz	-29.34 dBm	-19.34 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62114 GHz	-26.30 dBm	-16.30 dB
2.625 GHz	2.640 GHz	1.000 MHz	2.63500 GHz	-29.31 dBm	-16.31 dB
2.640 GHz	2.645 GHz	1.000 MHz	2.64188 GHz	-33.30 dBm	-8.30 dB

Date: 17.JUL.2020 17:52:18

FR1 n38 / 20MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

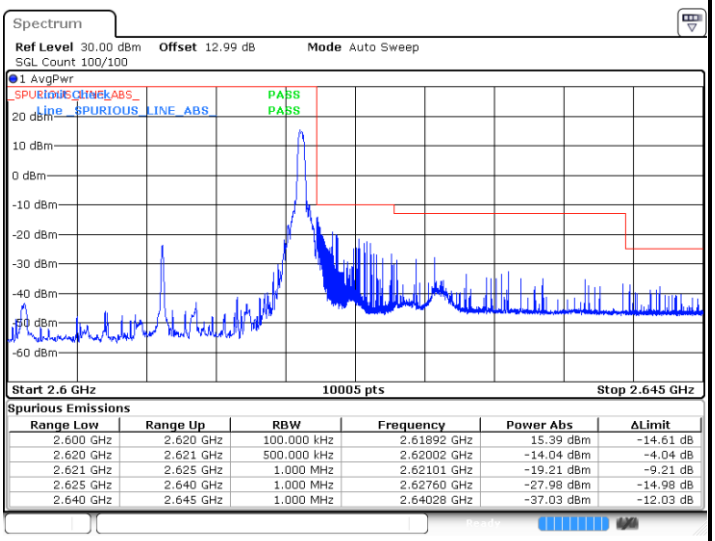


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.545 GHz	2.550 GHz	1.000 MHz	2.54934 GHz	-42.54 dBm	-17.54 dB
2.550 GHz	2.565 GHz	1.000 MHz	2.56337 GHz	-34.14 dBm	-21.14 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56899 GHz	-21.59 dBm	-11.59 dB
2.569 GHz	2.570 GHz	500.000 kHz	2.56997 GHz	-11.85 dBm	-1.85 dB
2.570 GHz	2.590 GHz	100.000 kHz	2.57101 GHz	15.85 dBm	-14.15 dB

Date: 17.JUL.2020 16:19:25

Highest Band Edge / 1RBMAX



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.600 GHz	2.620 GHz	100.000 kHz	2.61892 GHz	15.39 dBm	-14.61 dB
2.620 GHz	2.621 GHz	500.000 kHz	2.62002 GHz	-14.04 dBm	-4.04 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62101 GHz	-19.21 dBm	-9.21 dB
2.625 GHz	2.640 GHz	1.000 MHz	2.62760 GHz	-27.98 dBm	-14.98 dB
2.640 GHz	2.645 GHz	1.000 MHz	2.64028 GHz	-37.03 dBm	-12.03 dB

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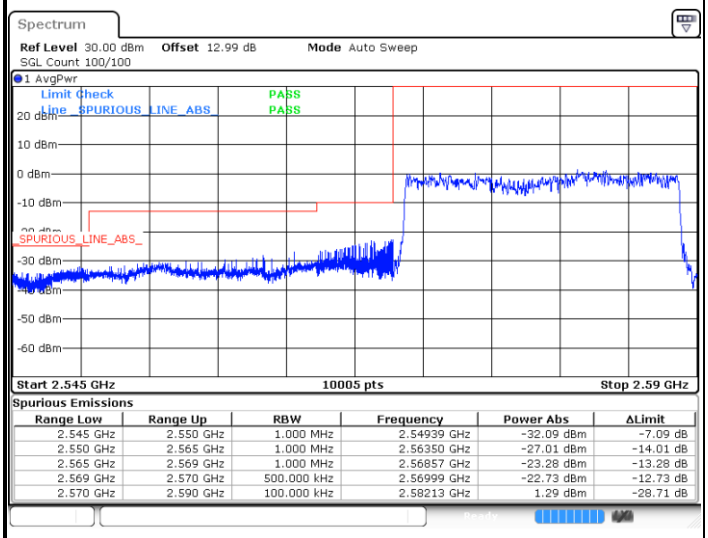
Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.545 GHz	2.550 GHz	1.000 MHz	2.54939 GHz	-32.09 dBm	-7.09 dB
2.550 GHz	2.565 GHz	1.000 MHz	2.56350 GHz	-27.01 dBm	-14.01 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56857 GHz	-23.28 dBm	-13.28 dB
2.569 GHz	2.570 GHz	500.000 kHz	2.56999 GHz	-22.73 dBm	-12.73 dB
2.570 GHz	2.590 GHz	100.000 kHz	2.58213 GHz	1.29 dBm	-28.71 dB

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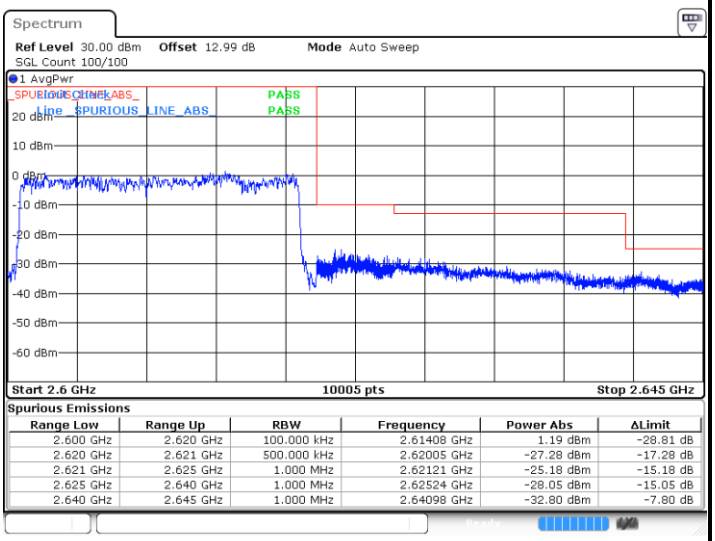
Highest Band Edge / Full RB



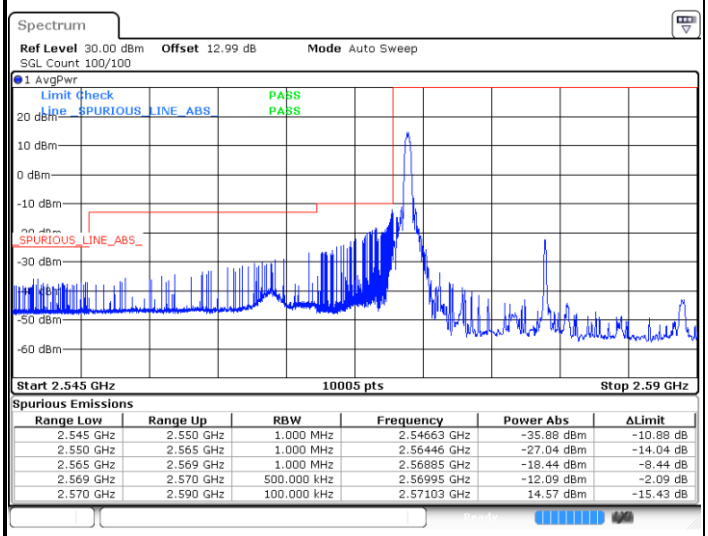
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.600 GHz	2.620 GHz	100.000 kHz	2.61408 GHz	1.19 dBm	-28.81 dB
2.620 GHz	2.621 GHz	500.000 kHz	2.62005 GHz	-27.28 dBm	-17.28 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62121 GHz	-25.18 dBm	-15.18 dB
2.625 GHz	2.640 GHz	1.000 MHz	2.62524 GHz	-28.05 dBm	-15.05 dB
2.640 GHz	2.645 GHz	1.000 MHz	2.64098 GHz	-32.80 dBm	-7.80 dB

Date: 17.JUL.2020 17:52:46

FR1 n38 / 20MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

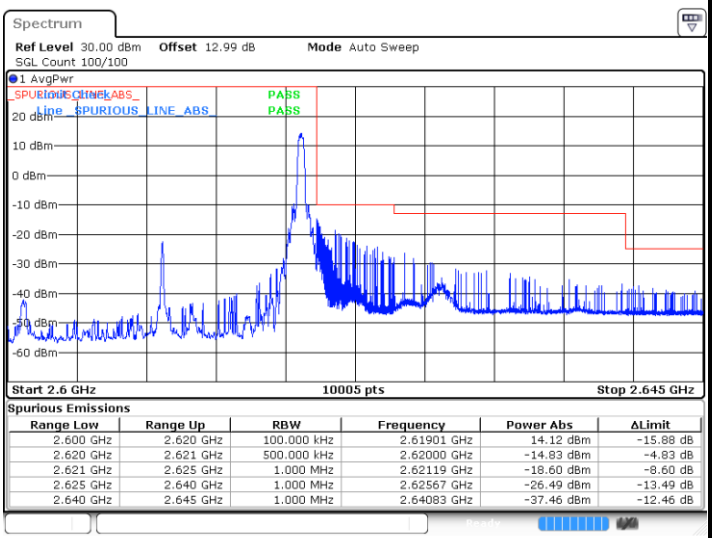


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.545 GHz	2.550 GHz	1.000 MHz	2.54663 GHz	-35.88 dBm	-10.88 dB
2.550 GHz	2.565 GHz	1.000 MHz	2.56446 GHz	-27.04 dBm	-14.04 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56885 GHz	-18.44 dBm	-8.44 dB
2.569 GHz	2.570 GHz	500.000 kHz	2.56995 GHz	-12.09 dBm	-2.09 dB
2.570 GHz	2.590 GHz	100.000 kHz	2.57103 GHz	14.57 dBm	-15.43 dB

Date: 17.JUL.2020 16:20:43

Highest Band Edge / 1RBMAX



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.600 GHz	2.620 GHz	100.000 kHz	2.61901 GHz	14.12 dBm	-15.88 dB
2.620 GHz	2.621 GHz	500.000 kHz	2.62000 GHz	-14.83 dBm	-4.83 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62119 GHz	-18.60 dBm	-8.60 dB
2.625 GHz	2.640 GHz	1.000 MHz	2.62567 GHz	-26.49 dBm	-13.49 dB
2.640 GHz	2.645 GHz	1.000 MHz	2.64083 GHz	-37.46 dBm	-12.46 dB

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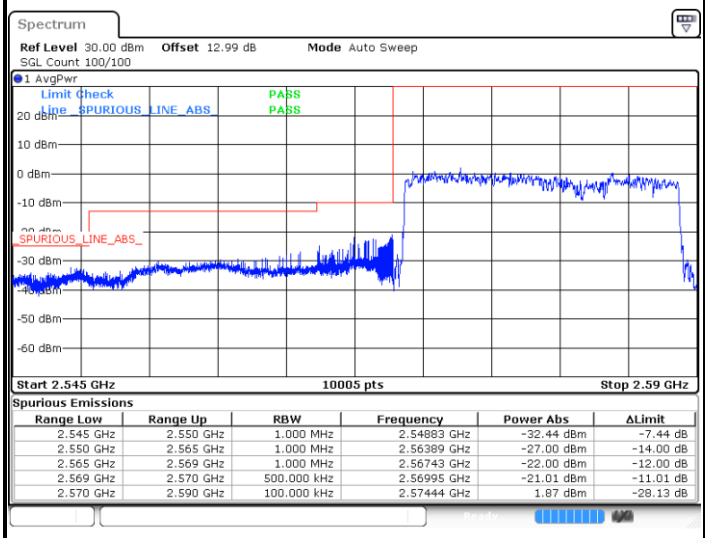
Lowest Band Edge / Full RB

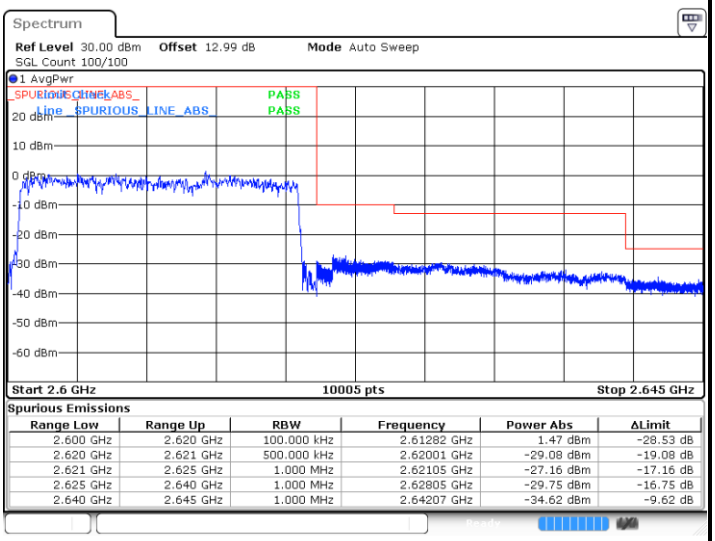


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.545 GHz	2.550 GHz	1.000 MHz	2.54883 GHz	-32.44 dBm	-7.44 dB
2.550 GHz	2.565 GHz	1.000 MHz	2.56389 GHz	-27.00 dBm	-14.00 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56743 GHz	-22.00 dBm	-12.00 dB
2.569 GHz	2.570 GHz	500.000 kHz	2.56995 GHz	-21.01 dBm	-11.01 dB
2.570 GHz	2.590 GHz	100.000 kHz	2.57444 GHz	1.87 dBm	-28.13 dB

Date: 17.JUL.2020 16:44:13

Highest Band Edge / Full RB



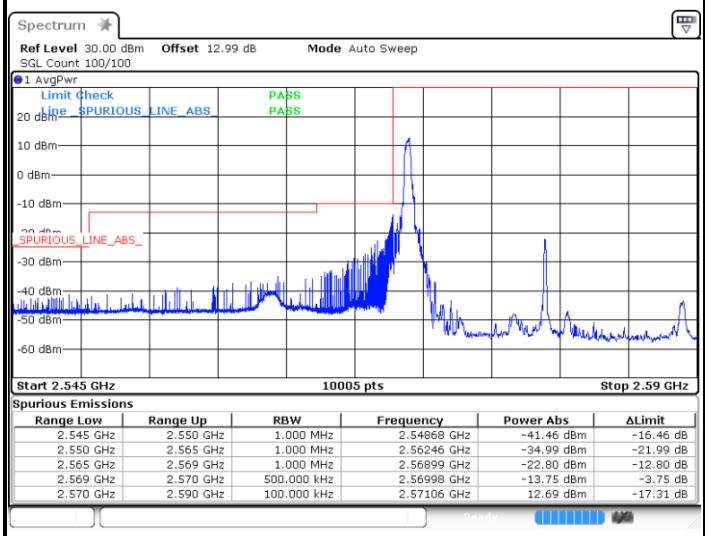
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.600 GHz	2.620 GHz	100.000 kHz	2.61282 GHz	1.47 dBm	-28.53 dB
2.620 GHz	2.621 GHz	500.000 kHz	2.62001 GHz	-29.08 dBm	-19.08 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62105 GHz	-27.16 dBm	-17.16 dB
2.625 GHz	2.640 GHz	1.000 MHz	2.62805 GHz	-29.75 dBm	-16.75 dB
2.640 GHz	2.645 GHz	1.000 MHz	2.64207 GHz	-34.62 dBm	-9.62 dB

Date: 17.JUL.2020 17:53:08

FR1 n38 / 20MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

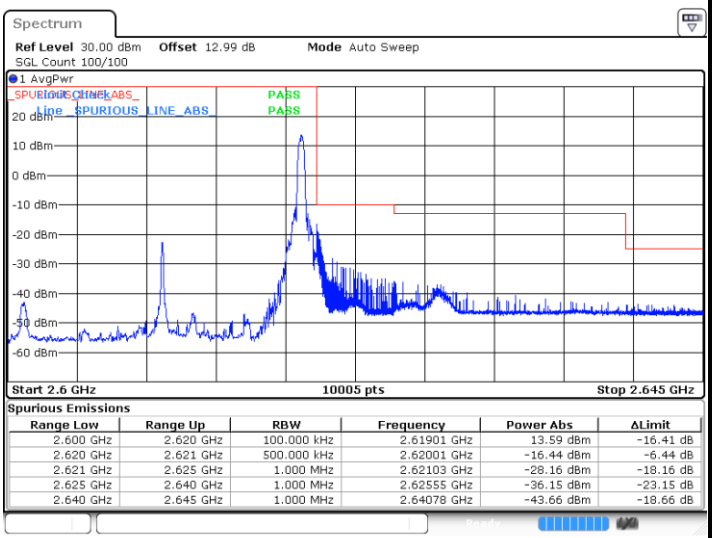


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.545 GHz	2.550 GHz	1.000 MHz	2.54868 GHz	-41.46 dBm	-16.46 dB
2.550 GHz	2.565 GHz	1.000 MHz	2.56246 GHz	-34.99 dBm	-21.99 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56899 GHz	-22.80 dBm	-12.80 dB
2.569 GHz	2.570 GHz	500.000 kHz	2.56998 GHz	-13.75 dBm	-3.75 dB
2.570 GHz	2.590 GHz	100.000 kHz	2.57106 GHz	12.69 dBm	-17.31 dB

Date: 17.JUL.2020 16:37:00

Highest Band Edge / 1RBMAX

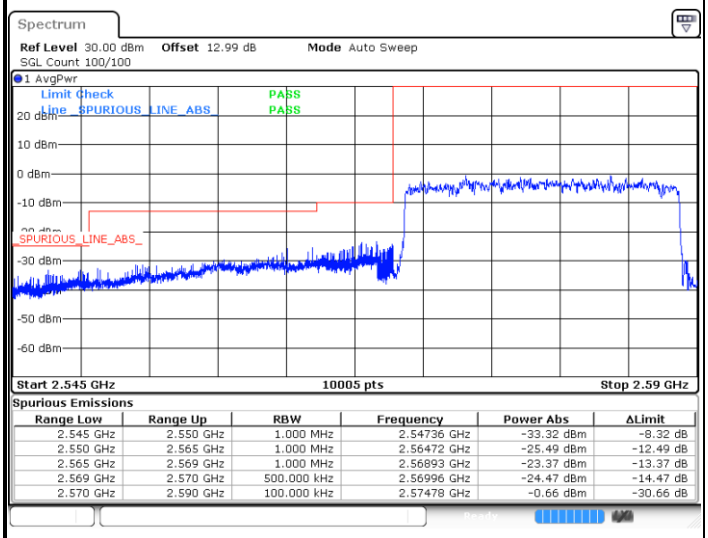


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.600 GHz	2.620 GHz	100.000 kHz	2.61901 GHz	13.59 dBm	-16.41 dB
2.620 GHz	2.621 GHz	500.000 kHz	2.62001 GHz	-16.44 dBm	-6.44 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62103 GHz	-28.16 dBm	-18.16 dB
2.625 GHz	2.640 GHz	1.000 MHz	2.62555 GHz	-36.15 dBm	-23.15 dB
2.640 GHz	2.645 GHz	1.000 MHz	2.64078 GHz	-43.66 dBm	-18.66 dB

Date: 17.JUL.2020 17:54:38

Lowest Band Edge / Full RB

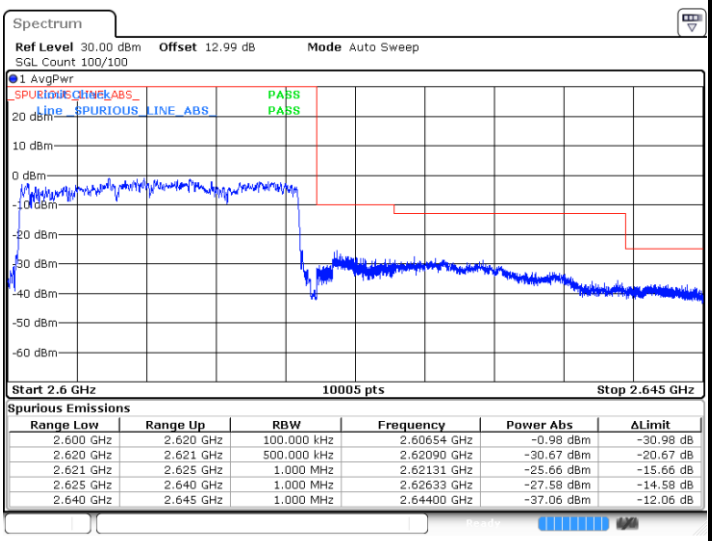


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.545 GHz	2.550 GHz	1.000 MHz	2.54736 GHz	-33.32 dBm	-8.32 dB
2.550 GHz	2.565 GHz	1.000 MHz	2.56472 GHz	-25.49 dBm	-12.49 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56893 GHz	-23.37 dBm	-13.37 dB
2.569 GHz	2.570 GHz	500.000 kHz	2.56996 GHz	-24.47 dBm	-14.47 dB
2.570 GHz	2.590 GHz	100.000 kHz	2.57478 GHz	-0.66 dBm	-30.66 dB

Date: 17.JUL.2020 16:43:53

Highest Band Edge / Full RB



Spurious Emissions

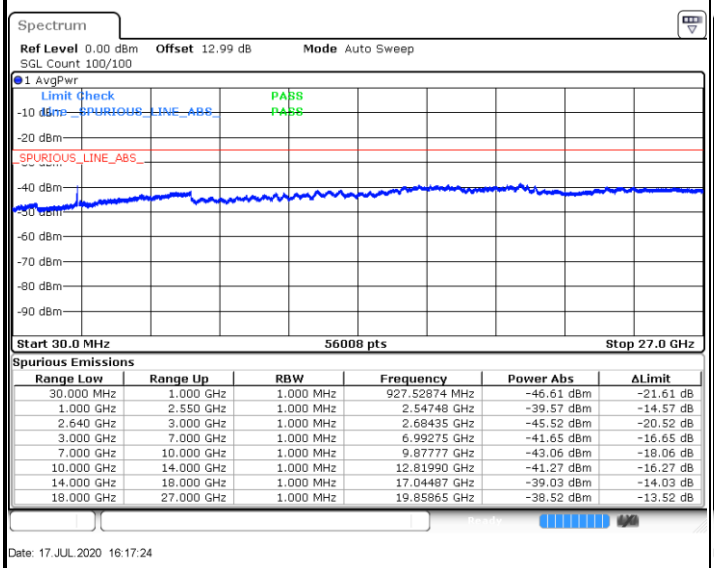
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.600 GHz	2.620 GHz	100.000 kHz	2.60654 GHz	-0.98 dBm	-30.98 dB
2.620 GHz	2.621 GHz	500.000 kHz	2.62090 GHz	-30.67 dBm	-20.67 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62131 GHz	-25.66 dBm	-15.66 dB
2.625 GHz	2.640 GHz	1.000 MHz	2.62633 GHz	-27.58 dBm	-14.58 dB
2.640 GHz	2.645 GHz	1.000 MHz	2.64400 GHz	-37.06 dBm	-12.06 dB

Date: 17.JUL.2020 17:53:53

Conducted Spurious Emission

FR1 n38 / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

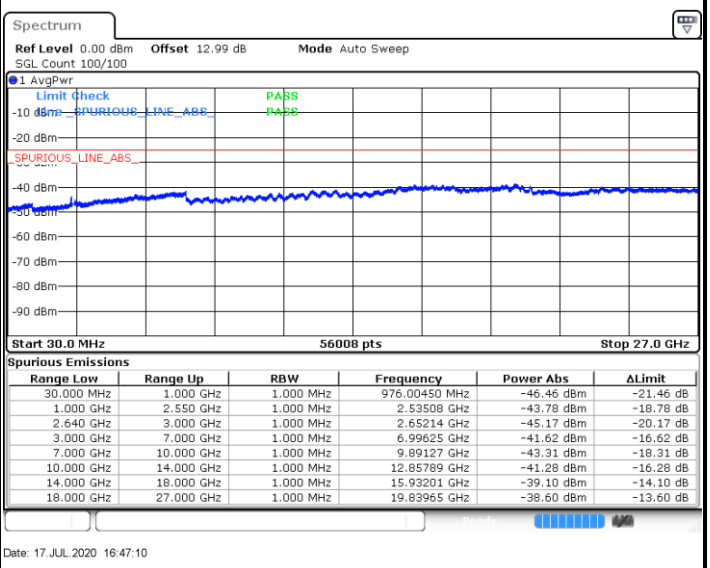


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	927.52874 MHz	-46.61 dBm	-21.61 dB
1.000 GHz	2.550 GHz	1.000 MHz	2.54748 GHz	-39.57 dBm	-14.57 dB
2.640 GHz	3.000 GHz	1.000 MHz	2.68435 GHz	-45.52 dBm	-20.52 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99275 GHz	-41.65 dBm	-16.65 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.87777 GHz	-43.06 dBm	-18.06 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.81990 GHz	-41.27 dBm	-16.27 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.04487 GHz	-39.03 dBm	-14.03 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.85865 GHz	-38.52 dBm	-13.52 dB

Date: 17.JUL.2020 16:17:24

Middle Channel / 1RB1

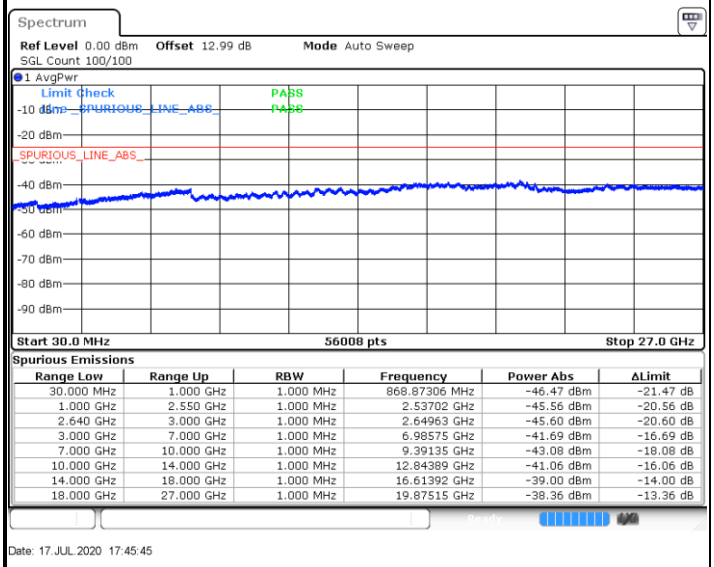


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	976.00450 MHz	-46.46 dBm	-21.46 dB
1.000 GHz	2.550 GHz	1.000 MHz	2.53508 GHz	-43.78 dBm	-18.78 dB
2.640 GHz	3.000 GHz	1.000 MHz	2.65214 GHz	-45.17 dBm	-20.17 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99625 GHz	-41.62 dBm	-16.62 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.89127 GHz	-43.31 dBm	-18.31 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.85789 GHz	-41.28 dBm	-16.28 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.93201 GHz	-39.10 dBm	-14.10 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.83965 GHz	-38.60 dBm	-13.60 dB

Date: 17.JUL.2020 16:47:10

Highest Channel / 1RB1



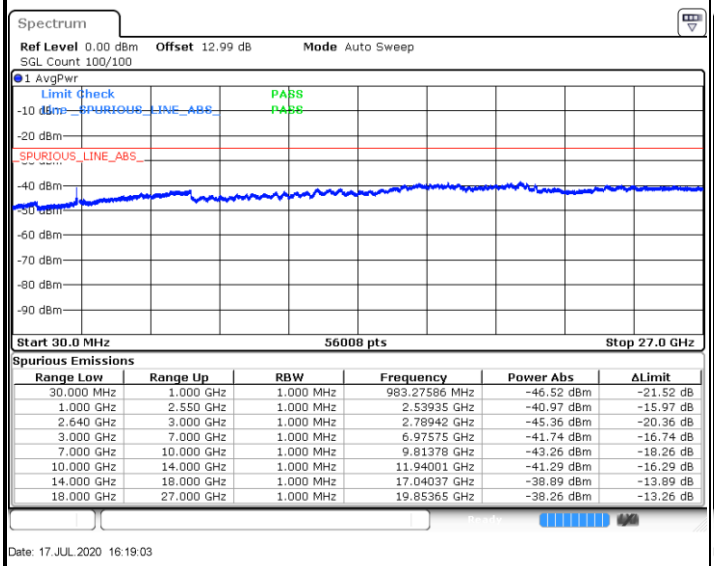
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	868.87306 MHz	-46.47 dBm	-21.47 dB
1.000 GHz	2.550 GHz	1.000 MHz	2.53702 GHz	-45.56 dBm	-20.56 dB
2.640 GHz	3.000 GHz	1.000 MHz	2.64963 GHz	-45.60 dBm	-20.60 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98575 GHz	-41.69 dBm	-16.69 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.39135 GHz	-43.08 dBm	-18.08 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.84389 GHz	-41.06 dBm	-16.06 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.61392 GHz	-39.00 dBm	-14.00 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.87515 GHz	-38.36 dBm	-13.36 dB

Date: 17.JUL.2020 17:45:45

FR1 n38 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

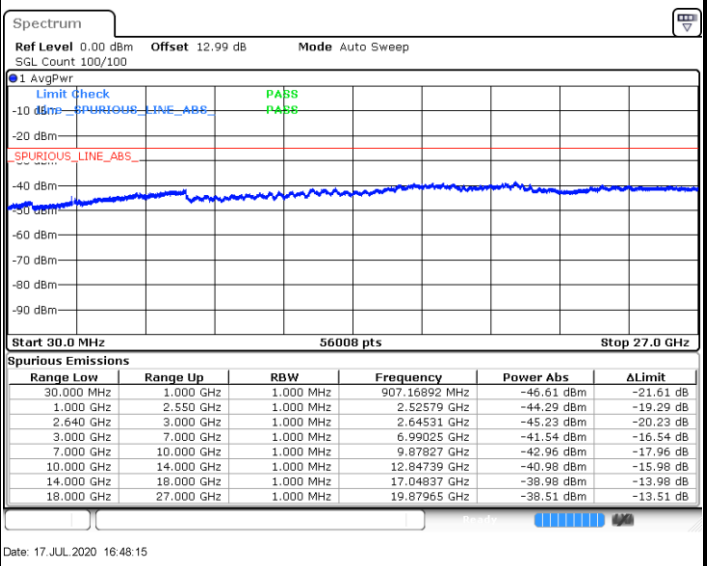


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	983.27586 MHz	-46.52 dBm	-21.52 dB
1.000 GHz	2.550 GHz	1.000 MHz	2.53935 GHz	-40.97 dBm	-15.97 dB
2.640 GHz	3.000 GHz	1.000 MHz	2.78942 GHz	-45.36 dBm	-20.36 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97575 GHz	-41.74 dBm	-16.74 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.81378 GHz	-43.26 dBm	-18.26 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.94001 GHz	-41.29 dBm	-16.29 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.04037 GHz	-38.89 dBm	-13.89 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.85365 GHz	-38.26 dBm	-13.26 dB

Date: 17.JUL.2020 16:19:03

Middle Channel / 1RB1

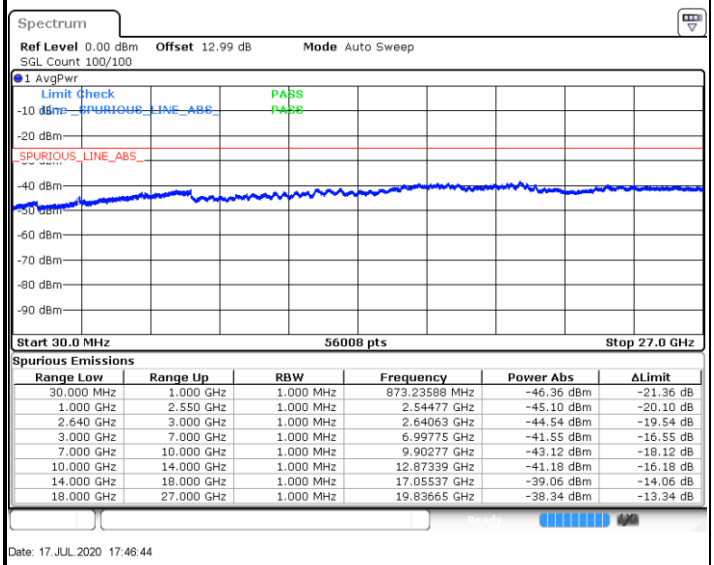


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	907.16892 MHz	-46.61 dBm	-21.61 dB
1.000 GHz	2.550 GHz	1.000 MHz	2.52579 GHz	-44.29 dBm	-19.29 dB
2.640 GHz	3.000 GHz	1.000 MHz	2.64531 GHz	-45.23 dBm	-20.23 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99025 GHz	-41.54 dBm	-16.54 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.87827 GHz	-42.96 dBm	-17.96 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.84739 GHz	-40.98 dBm	-15.98 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.04837 GHz	-38.98 dBm	-13.98 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.87965 GHz	-38.51 dBm	-13.51 dB

Date: 17.JUL.2020 16:48:15

Highest Channel / 1RB1



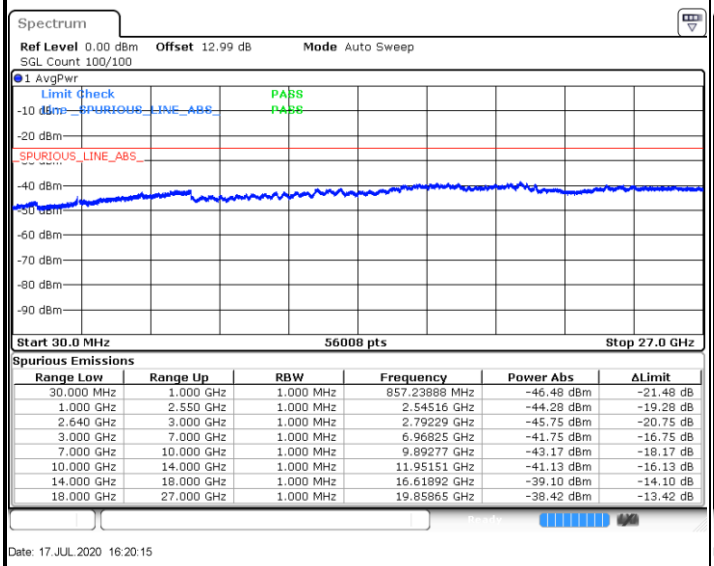
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	873.23588 MHz	-46.36 dBm	-21.36 dB
1.000 GHz	2.550 GHz	1.000 MHz	2.54477 GHz	-45.10 dBm	-20.10 dB
2.640 GHz	3.000 GHz	1.000 MHz	2.64063 GHz	-44.54 dBm	-19.54 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99775 GHz	-41.55 dBm	-16.55 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.90277 GHz	-43.12 dBm	-18.12 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.87339 GHz	-41.18 dBm	-16.18 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.05537 GHz	-39.06 dBm	-14.06 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.83665 GHz	-38.34 dBm	-13.34 dB

Date: 17.JUL.2020 17:46:44

FR1 n38 / 20MHz / DFT-S OFDM / 16QAM

Lowest Channel / 1RB1

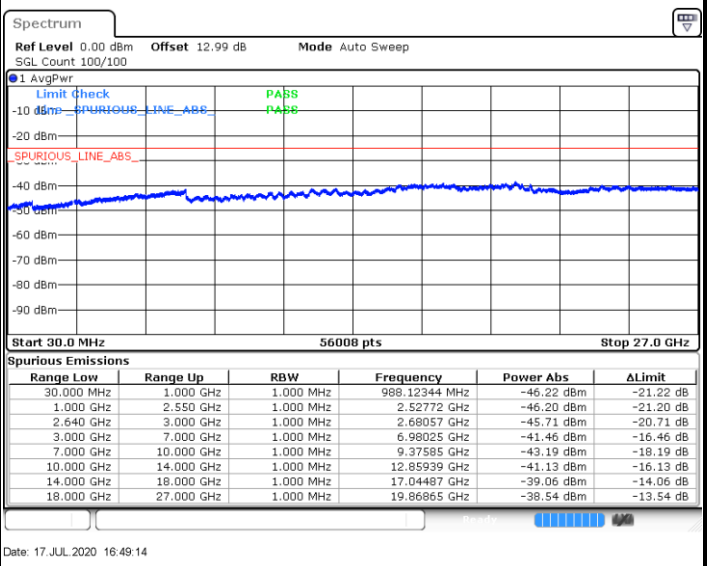


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	857.23888 MHz	-46.48 dBm	-21.48 dB
1.000 GHz	2.550 GHz	1.000 MHz	2.54516 GHz	-44.28 dBm	-19.28 dB
2.640 GHz	3.000 GHz	1.000 MHz	2.79229 GHz	-45.75 dBm	-20.75 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96825 GHz	-41.75 dBm	-16.75 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.89277 GHz	-43.17 dBm	-18.17 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.95151 GHz	-41.13 dBm	-16.13 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.61892 GHz	-39.10 dBm	-14.10 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.85865 GHz	-38.42 dBm	-13.42 dB

Date: 17.JUL.2020 16:20:15

Middle Channel / 1RB1

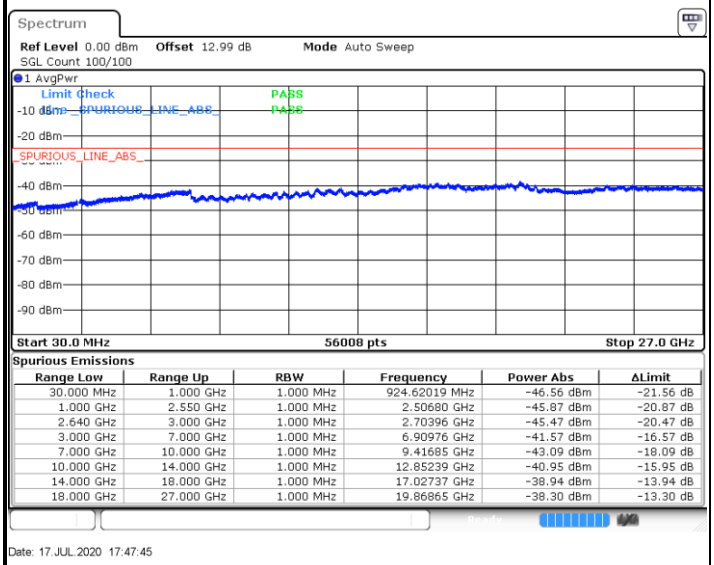


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	988.12344 MHz	-46.22 dBm	-21.22 dB
1.000 GHz	2.550 GHz	1.000 MHz	2.52772 GHz	-46.20 dBm	-21.20 dB
2.640 GHz	3.000 GHz	1.000 MHz	2.68057 GHz	-45.71 dBm	-20.71 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98025 GHz	-41.46 dBm	-16.46 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.37585 GHz	-43.19 dBm	-18.19 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.85939 GHz	-41.13 dBm	-16.13 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.04487 GHz	-39.06 dBm	-14.06 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.86865 GHz	-38.54 dBm	-13.54 dB

Date: 17.JUL.2020 16:49:14

Highest Channel / 1RB1



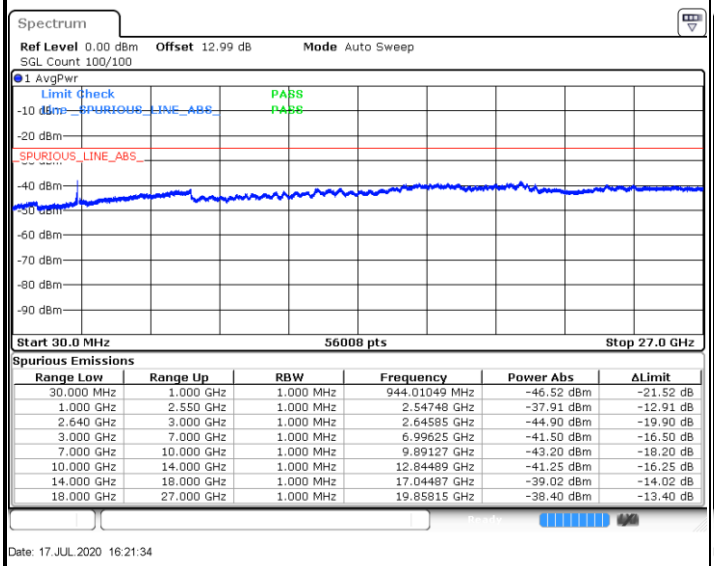
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	924.62019 MHz	-46.56 dBm	-21.56 dB
1.000 GHz	2.550 GHz	1.000 MHz	2.50680 GHz	-45.87 dBm	-20.87 dB
2.640 GHz	3.000 GHz	1.000 MHz	2.70396 GHz	-45.47 dBm	-20.47 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90976 GHz	-41.57 dBm	-16.57 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.41685 GHz	-43.09 dBm	-18.09 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.85239 GHz	-40.95 dBm	-15.95 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.02737 GHz	-38.94 dBm	-13.94 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.86865 GHz	-38.30 dBm	-13.30 dB

Date: 17.JUL.2020 17:47:45

FR1 n38 / 20MHz / DFT-S OFDM / 64QAM

Lowest Channel / 1RB1

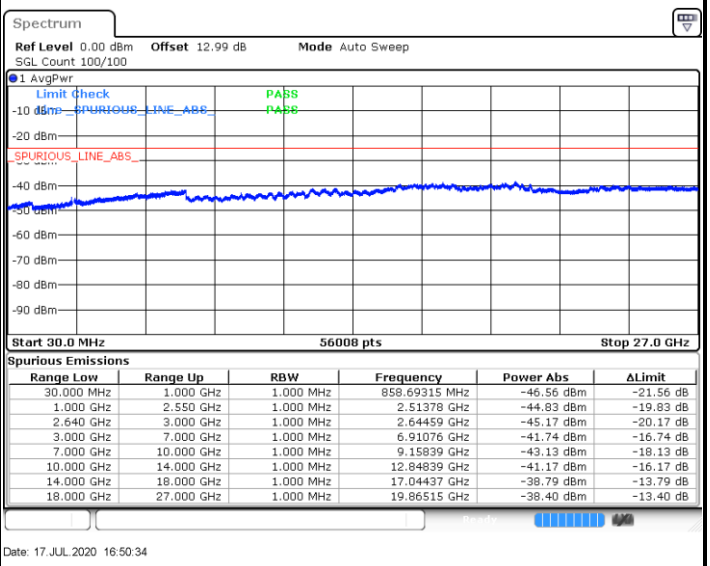


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	944.01049 MHz	-46.52 dBm	-21.52 dB
1.000 GHz	2.550 GHz	1.000 MHz	2.54748 GHz	-37.91 dBm	-12.91 dB
2.640 GHz	3.000 GHz	1.000 MHz	2.64585 GHz	-44.90 dBm	-19.90 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99625 GHz	-41.50 dBm	-16.50 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.89127 GHz	-43.20 dBm	-18.20 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.84489 GHz	-41.25 dBm	-16.25 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.04487 GHz	-39.02 dBm	-14.02 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.85815 GHz	-38.40 dBm	-13.40 dB

Date: 17.JUL.2020 16:21:34

Middle Channel / 1RB1

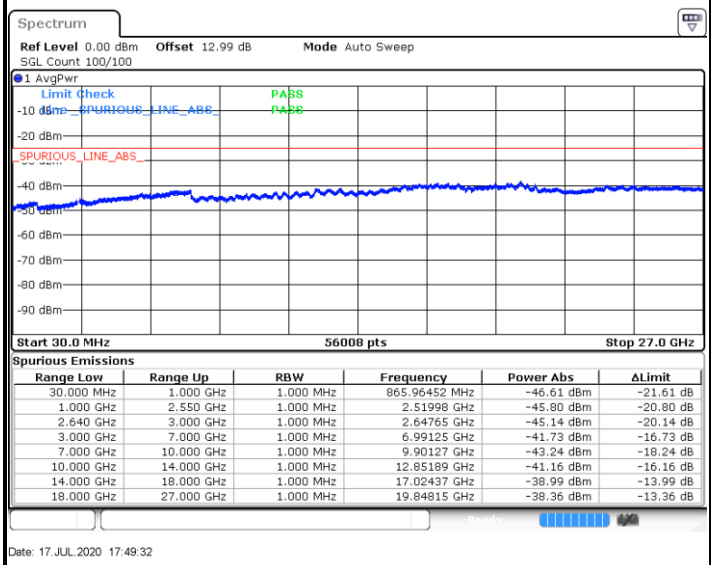


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	858.69315 MHz	-46.56 dBm	-21.56 dB
1.000 GHz	2.550 GHz	1.000 MHz	2.51378 GHz	-44.83 dBm	-19.83 dB
2.640 GHz	3.000 GHz	1.000 MHz	2.64459 GHz	-45.17 dBm	-20.17 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91076 GHz	-41.74 dBm	-16.74 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.15839 GHz	-43.13 dBm	-18.13 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.84839 GHz	-41.17 dBm	-16.17 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.04437 GHz	-38.79 dBm	-13.79 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.86515 GHz	-38.40 dBm	-13.40 dB

Date: 17.JUL.2020 16:50:34

Highest Channel / 1RB1



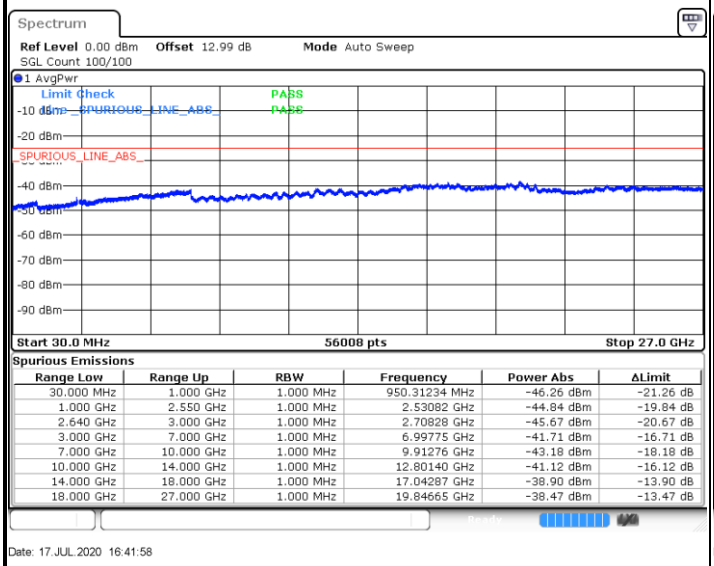
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	865.96452 MHz	-46.61 dBm	-21.61 dB
1.000 GHz	2.550 GHz	1.000 MHz	2.51998 GHz	-45.80 dBm	-20.80 dB
2.640 GHz	3.000 GHz	1.000 MHz	2.64765 GHz	-45.14 dBm	-20.14 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99125 GHz	-41.73 dBm	-16.73 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.90127 GHz	-43.24 dBm	-18.24 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.85189 GHz	-41.16 dBm	-16.16 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.02437 GHz	-38.99 dBm	-13.99 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.84815 GHz	-38.36 dBm	-13.36 dB

Date: 17.JUL.2020 17:49:32

FR1 n38 / 20MHz / DFT-S OFDM / 256QAM

Lowest Channel / 1RB1

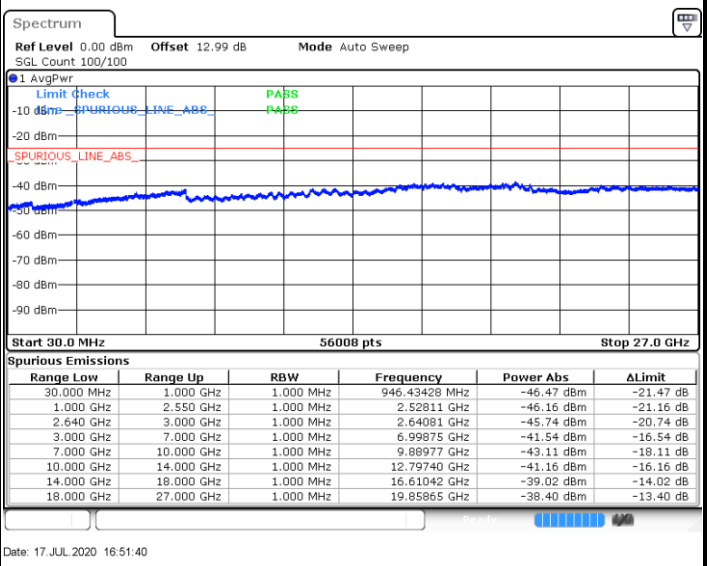


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	950.31234 MHz	-46.26 dBm	-21.26 dB
1.000 GHz	2.550 GHz	1.000 MHz	2.53082 GHz	-44.84 dBm	-19.84 dB
2.640 GHz	3.000 GHz	1.000 MHz	2.70828 GHz	-45.67 dBm	-20.67 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99775 GHz	-41.71 dBm	-16.71 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.91276 GHz	-43.18 dBm	-18.18 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.80140 GHz	-41.12 dBm	-16.12 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.04287 GHz	-38.90 dBm	-13.90 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.84665 GHz	-38.47 dBm	-13.47 dB

Date: 17.JUL.2020 16:41:58

Middle Channel / 1RB1

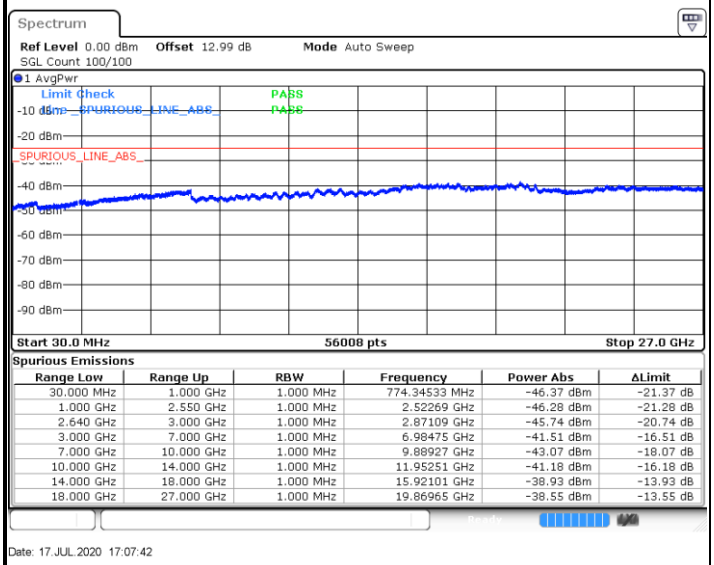


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	946.43428 MHz	-46.47 dBm	-21.47 dB
1.000 GHz	2.550 GHz	1.000 MHz	2.52811 GHz	-46.16 dBm	-21.16 dB
2.640 GHz	3.000 GHz	1.000 MHz	2.64081 GHz	-45.74 dBm	-20.74 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99875 GHz	-41.54 dBm	-16.54 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.88977 GHz	-43.11 dBm	-18.11 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.79740 GHz	-41.16 dBm	-16.16 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.61042 GHz	-39.02 dBm	-14.02 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.85865 GHz	-38.40 dBm	-13.40 dB

Date: 17.JUL.2020 16:51:40

Highest Channel / 1RB1



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	774.34533 MHz	-46.37 dBm	-21.37 dB
1.000 GHz	2.550 GHz	1.000 MHz	2.52269 GHz	-46.28 dBm	-21.28 dB
2.640 GHz	3.000 GHz	1.000 MHz	2.87109 GHz	-45.74 dBm	-20.74 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98475 GHz	-41.51 dBm	-16.51 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.88927 GHz	-43.07 dBm	-18.07 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.95251 GHz	-41.18 dBm	-16.18 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.92101 GHz	-38.93 dBm	-13.93 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.86965 GHz	-38.55 dBm	-13.55 dB

Date: 17.JUL.2020 17:07:42

Frequency Stability

Test Conditions		FR1 n38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0026	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0032	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0032	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0001	

Note:

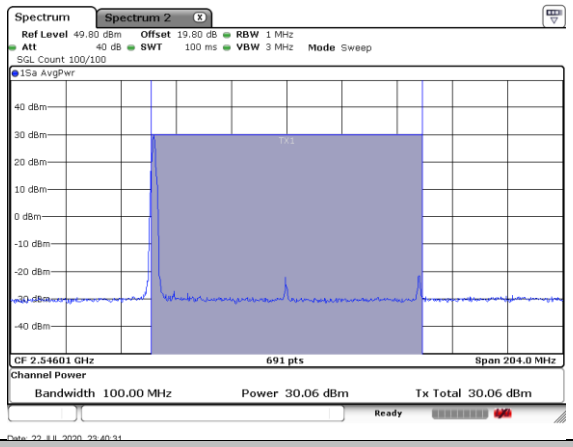
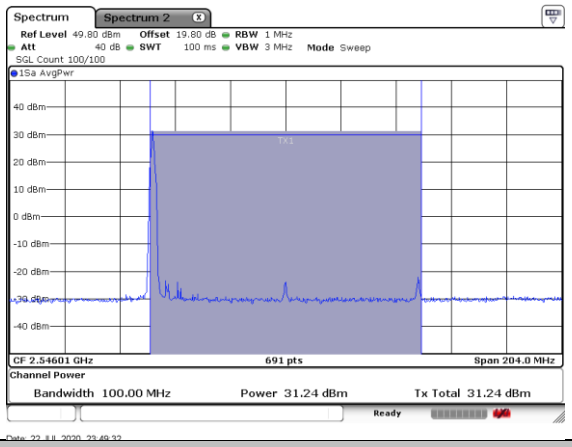
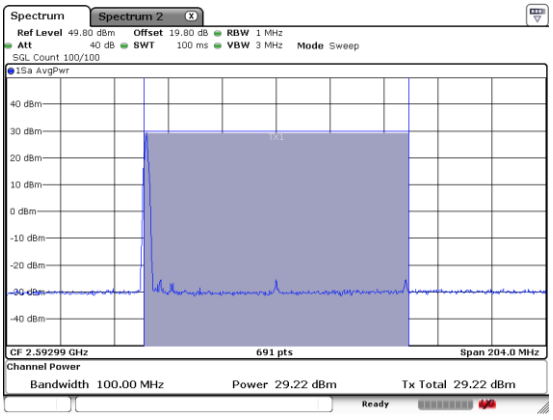
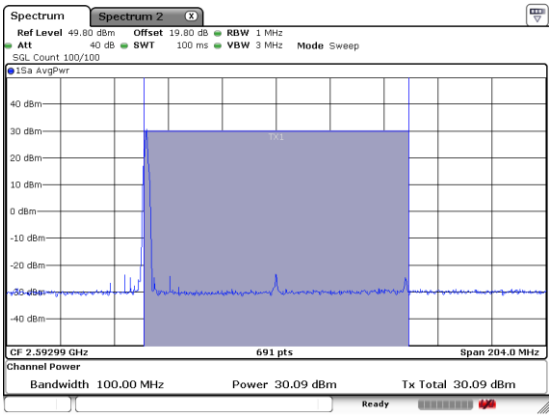
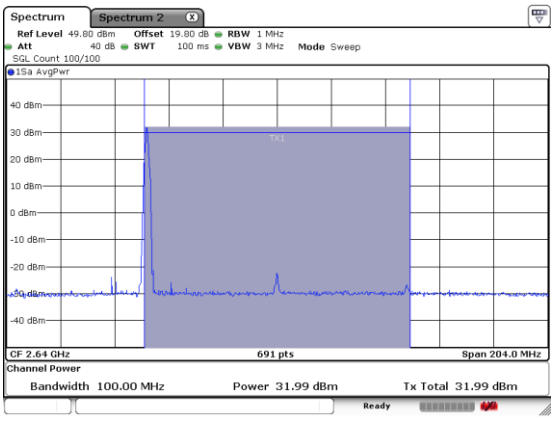
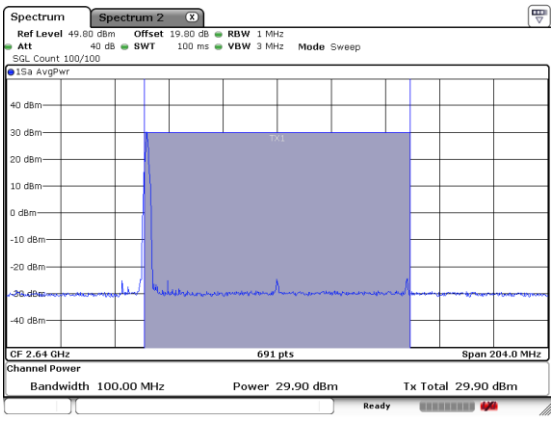
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.

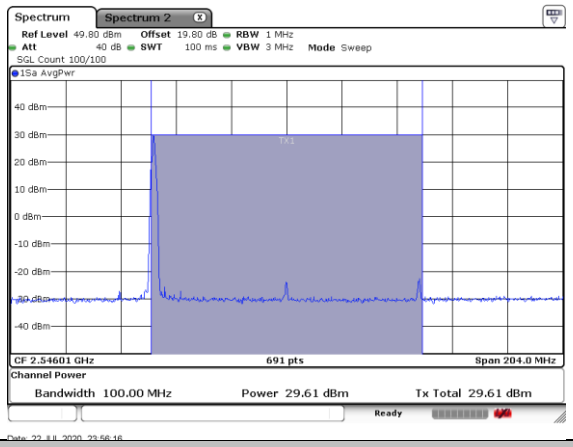
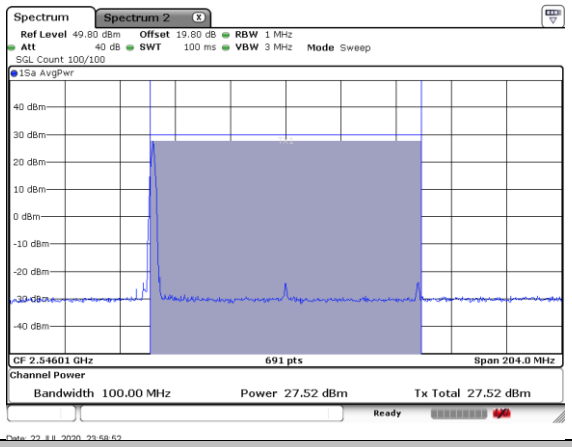
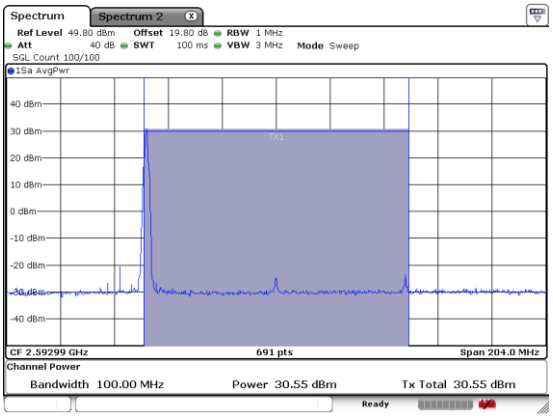
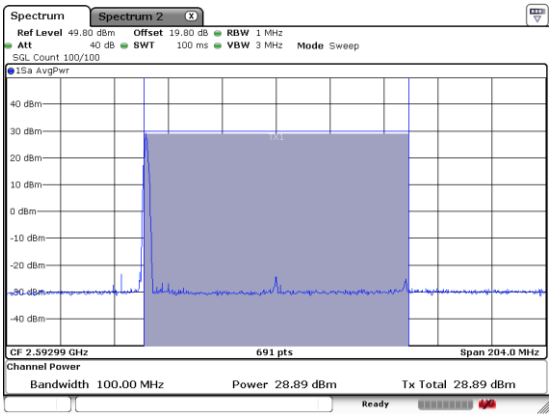
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

5G NR n41

Peak-to-Average Ratio

Mode	N 41 / 100MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	2.53	5.24	4.86	5.37	PASS
Middle CH	3.33	5.4	3.6	5.18	
Highest CH	2.9	5.14	4.23	5.24	
Mode	N41 / 100MHz				
Mod.	64QAM		256QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	6.47	5.41	5.44	5.25	PASS
Middle CH	4.47	5.45	4.5	5.29	
Highest CH	4.19	5.24	3.73	5.14	
Mode	N41 / 100MHz				
Mod.	BPSK		-		Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	2.69	3.51	-	-	PASS
Middle CH	3.92	6.3	-	-	
Highest CH	1.04	5.39	-	-	

N 41	
1RB0-A	
Lowest Channel / BPSK	Lowest Channel / QPSK
	
Middle Channel / BPSK	Middle Channel / QPSK
	
Highest Channel / BPSK	Highest Channel / QPSK
	

N 41	
1RB0-A	
Lowest Channel / 16QAM	Lowest Channel / 64QAM
	
Middle Channel / 16QAM	Middle Channel / 64QAM
	
Highest Channel / 16QAM	Highest Channel / 64QAM