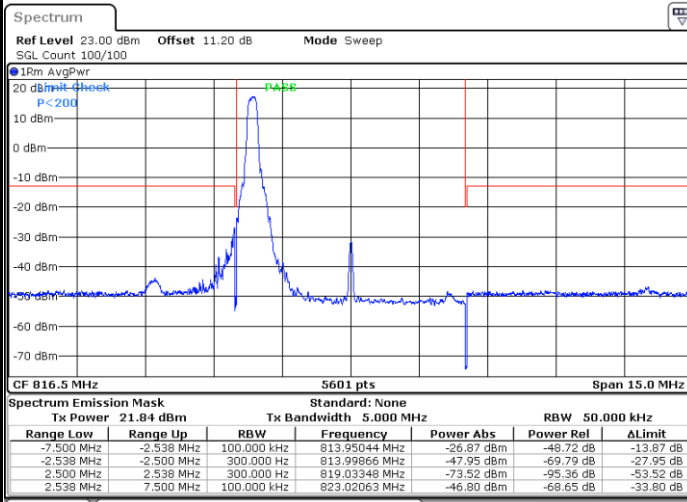




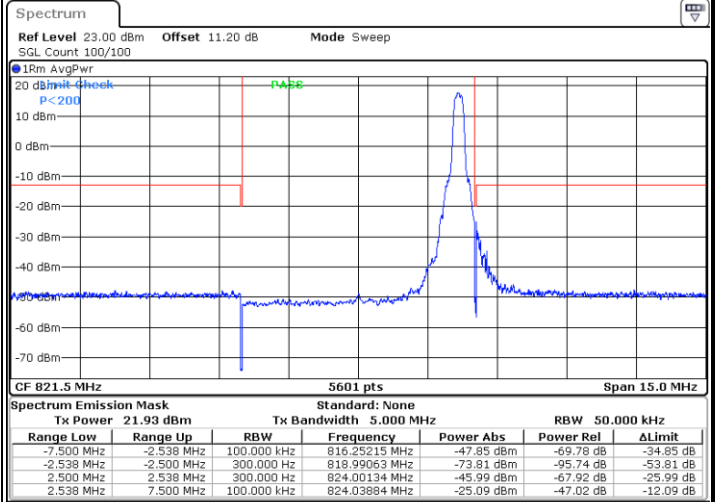
LTE Band 26 / 5MHz / 64QAM

Lowest Band Edge / 1RB



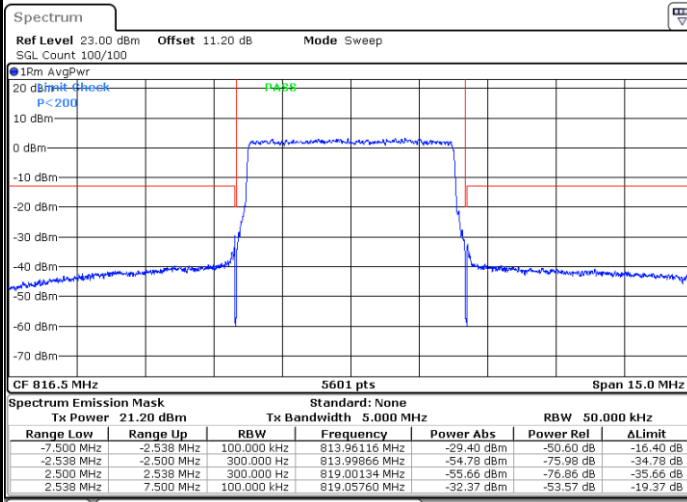
Date: 28.MAY.2020 06:03:32

Highest Band Edge / 1 RB



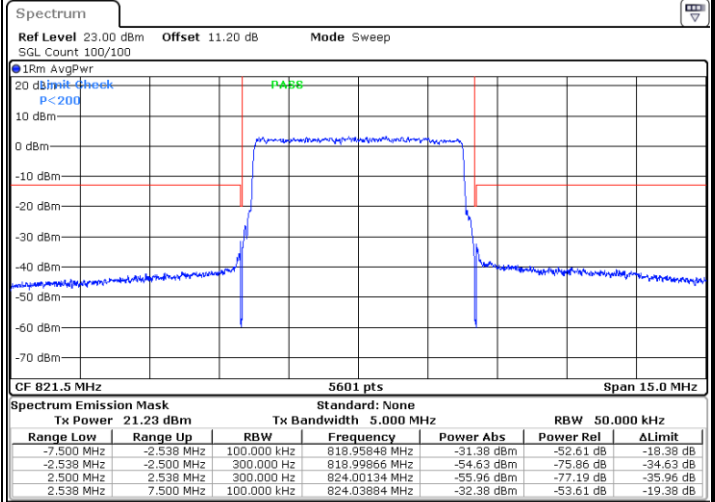
Date: 28.MAY.2020 06:04:31

Lowest Band Edge / Full RB



Date: 28.MAY.2020 06:04:02

Highest Band Edge / Full RB

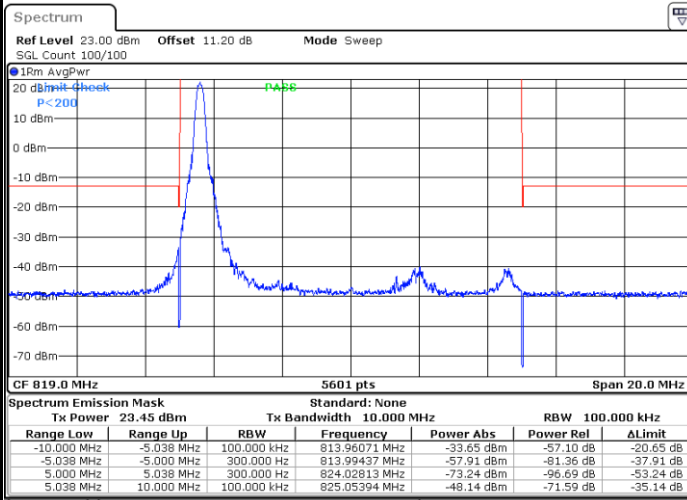


Date: 28.MAY.2020 06:05:01



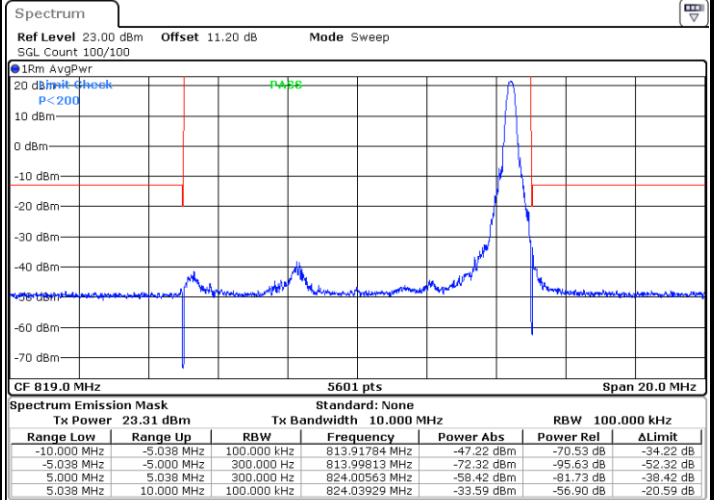
LTE Band 26 / 10MHz / QPSK

Lowest Band Edge / 1 RB



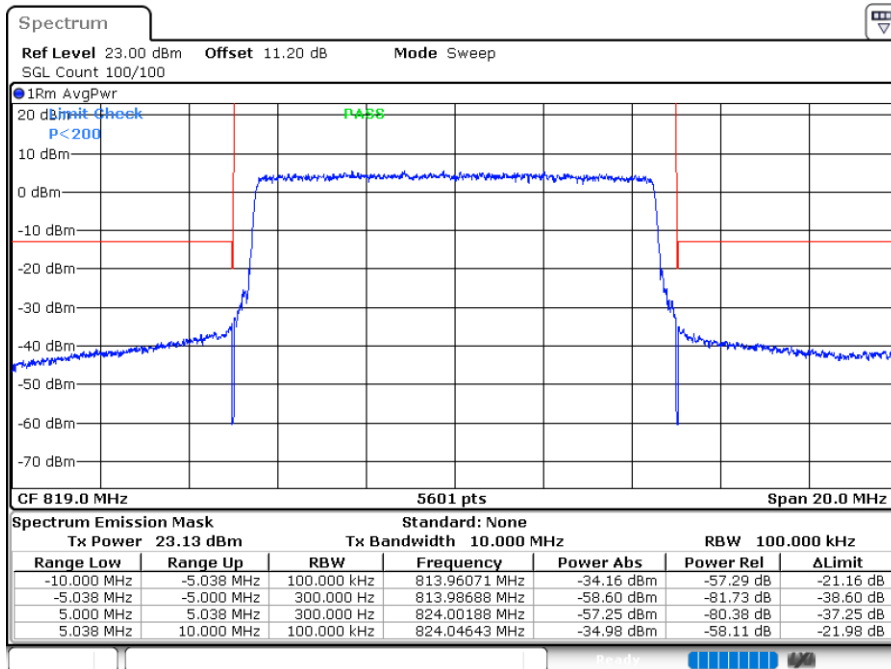
Date: 28.MAY.2020 05:55:32

Highest Band Edge / 1 RB



Date: 28.MAY.2020 05:56:31

Band Edge / Full RB

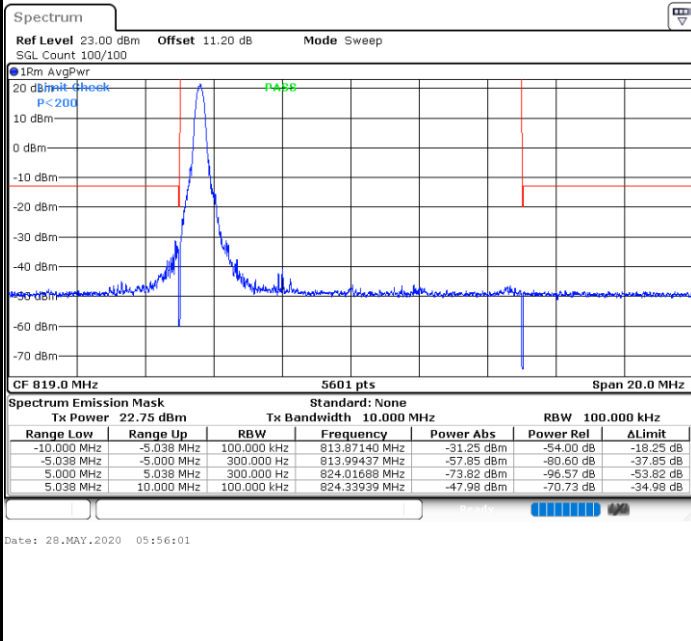


Date: 28.MAY.2020 05:57:30

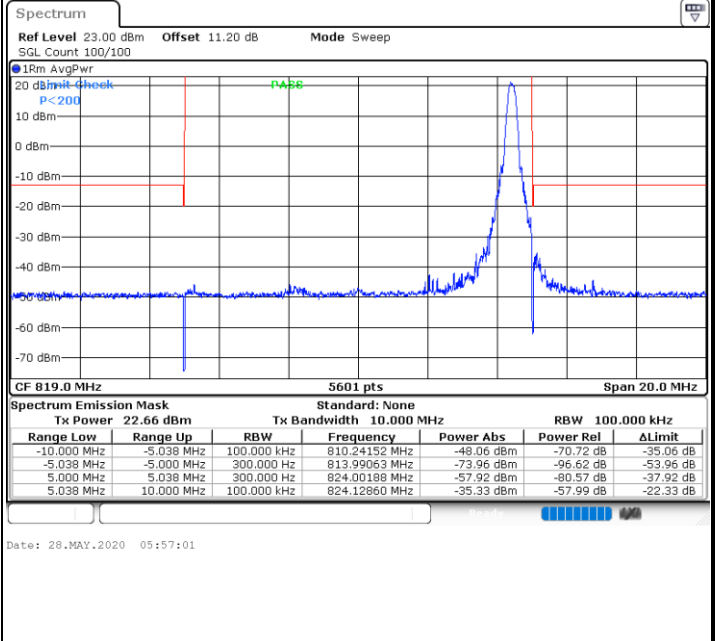


LTE Band 26 / 10MHz / 16QAM

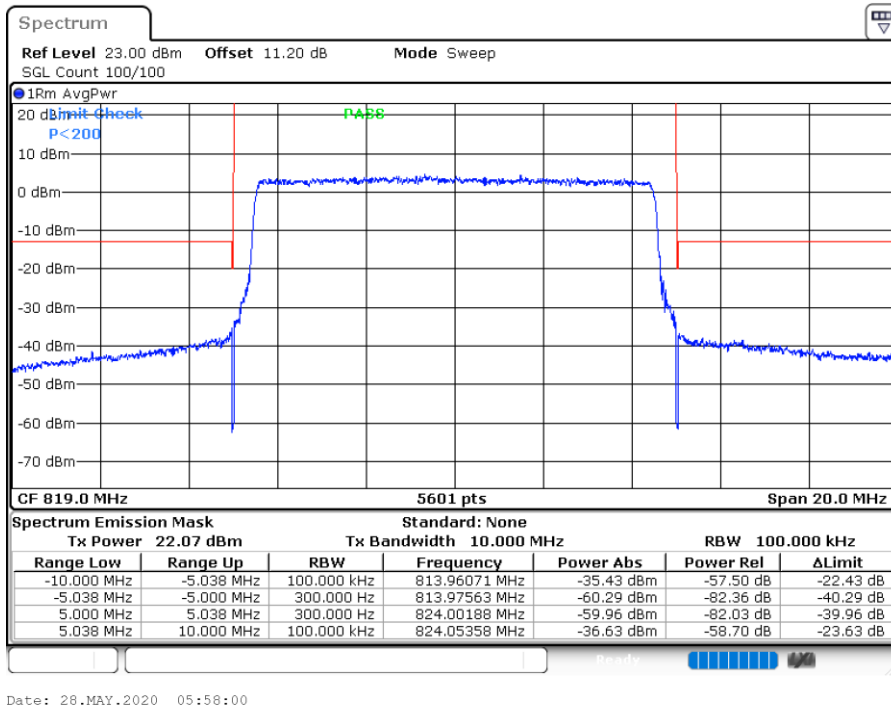
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



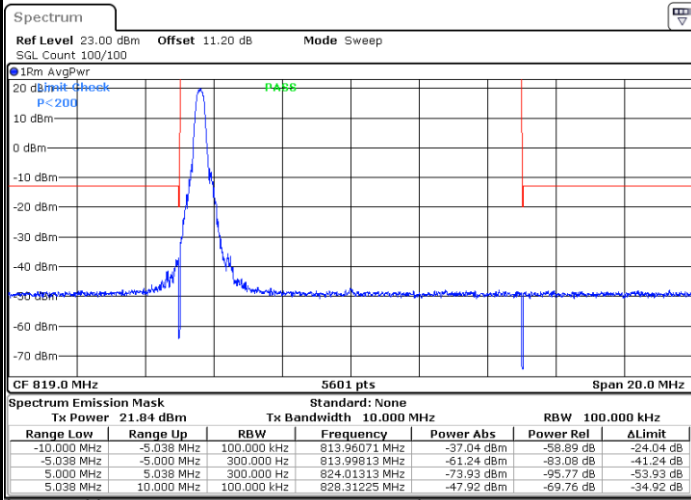
Band Edge / Full RB





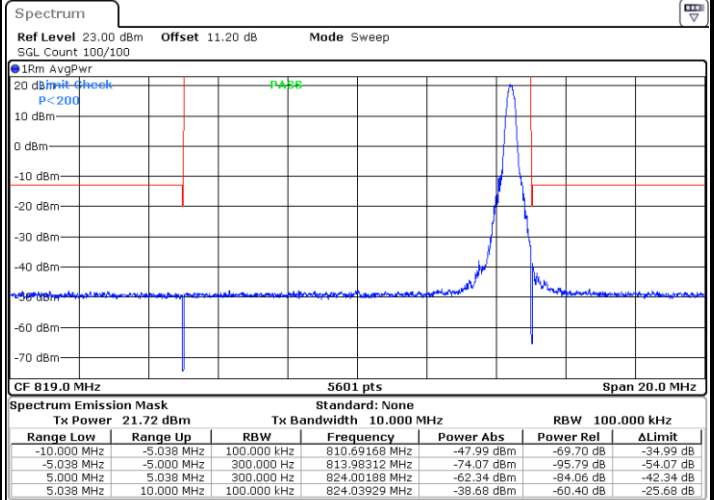
LTE Band 26 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



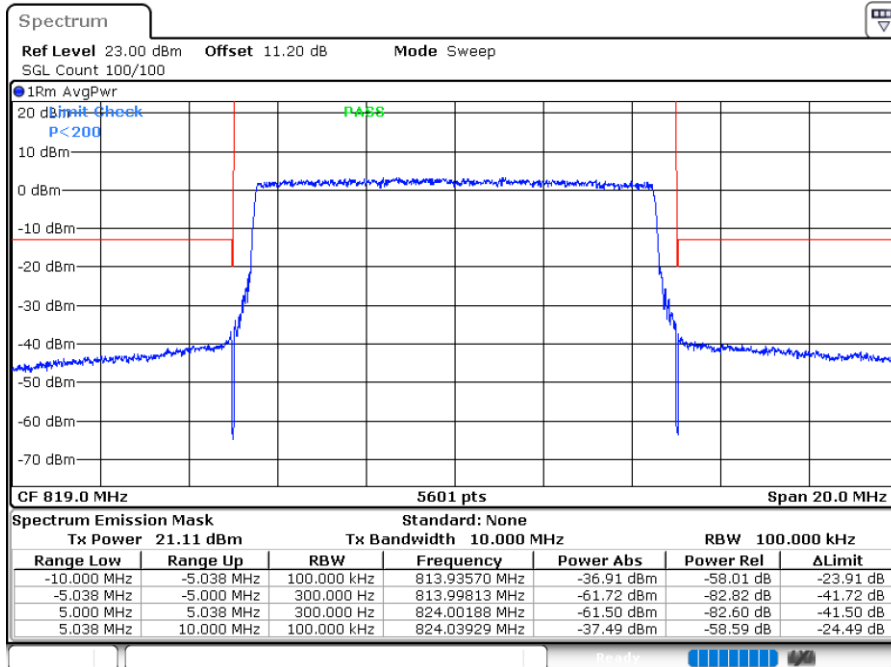
Date: 28.MAY.2020 06:05:33

Highest Band Edge / 1 RB



Date: 28.MAY.2020 06:06:02

Band Edge / Full RB

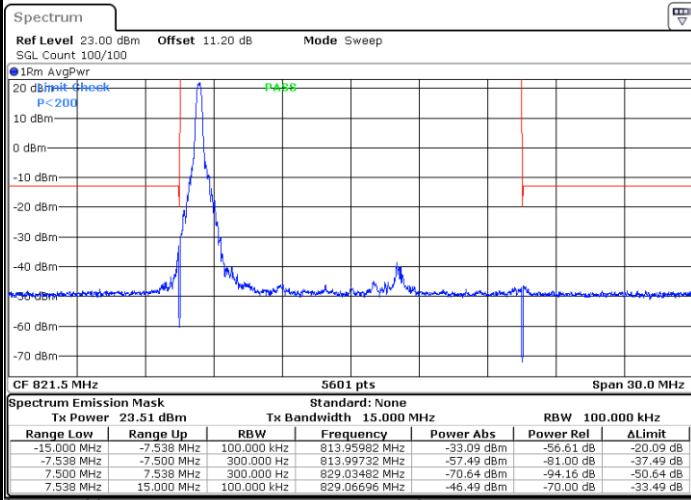


Date: 28.MAY.2020 06:06:32



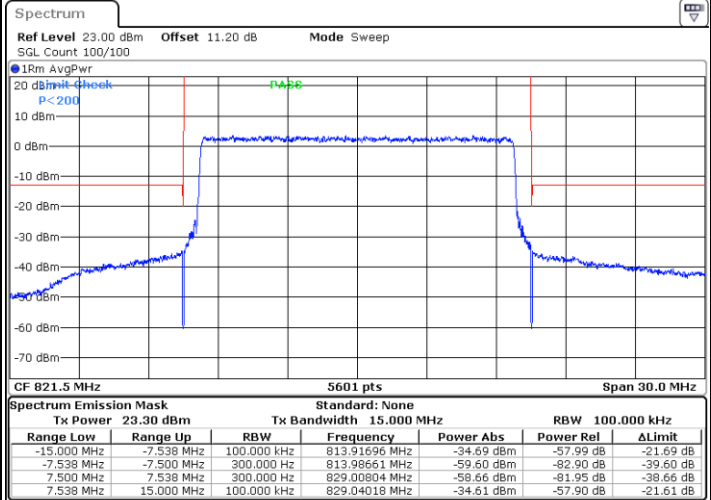
LTE Band 26 / 15MHz QPSK

Lowest Band Edge / 1 RB



Date: 28.MAY.2020 05:58:31

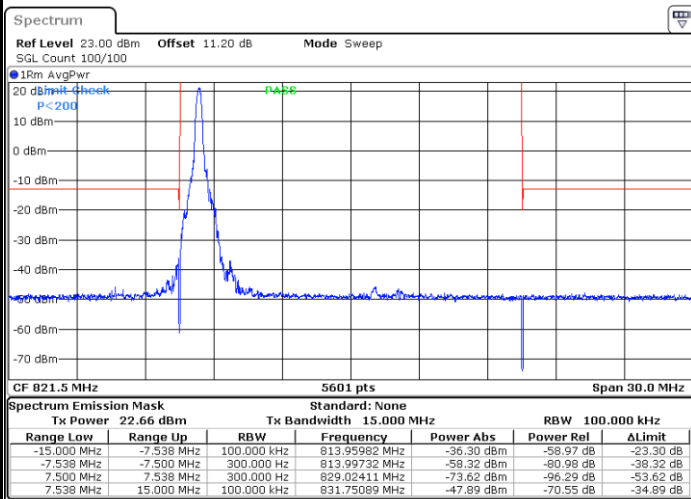
Lowest Band Edge / Full RB



Date: 28.MAY.2020 06:00:30

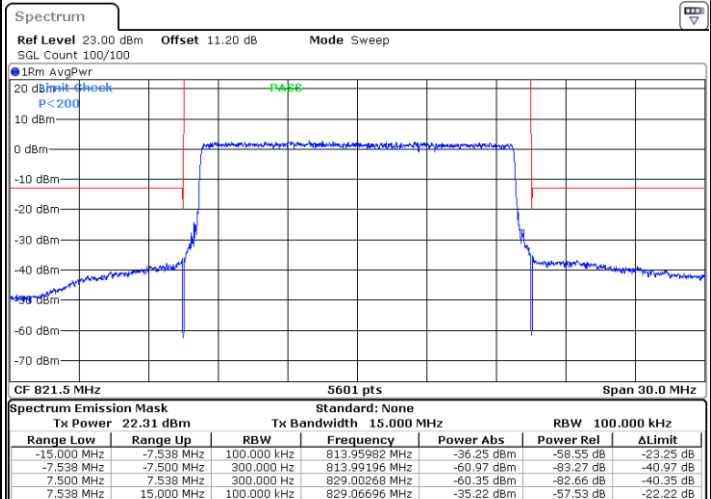
LTE Band 26 / 15MHz 16QAM

Lowest Band Edge / 1 RB



Date: 28.MAY.2020 05:59:01

Lowest Band Edge / Full RB



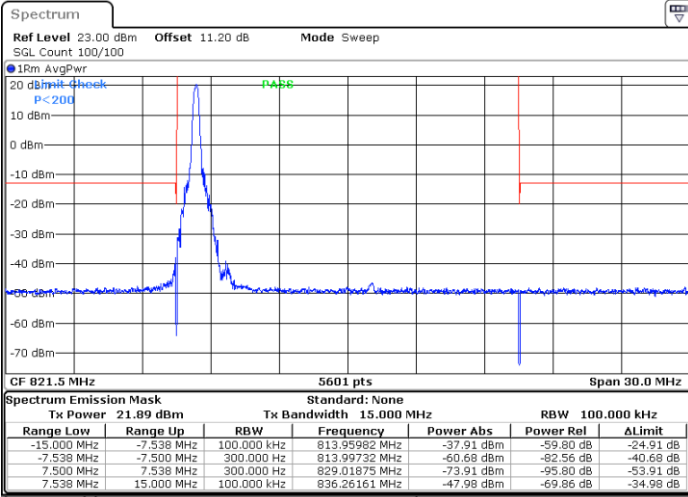
Date: 28.MAY.2020 06:01:00



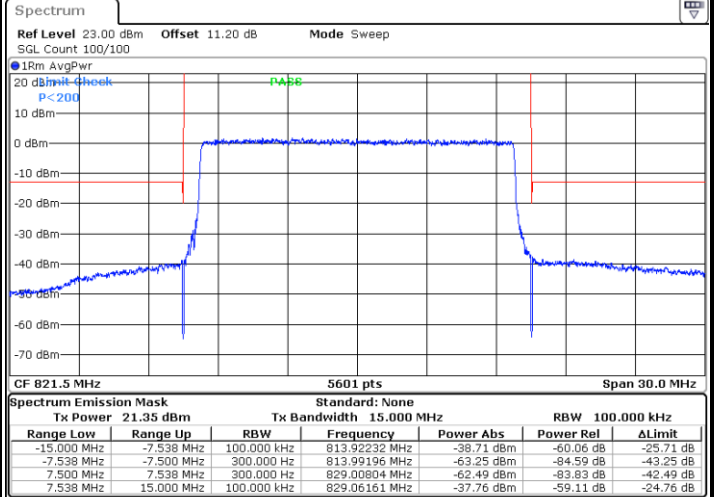
LTE Band 26 / 15MHz / 64QAM

Lowest Band Edge / 1 RB

Lowest Band Edge / Full RB



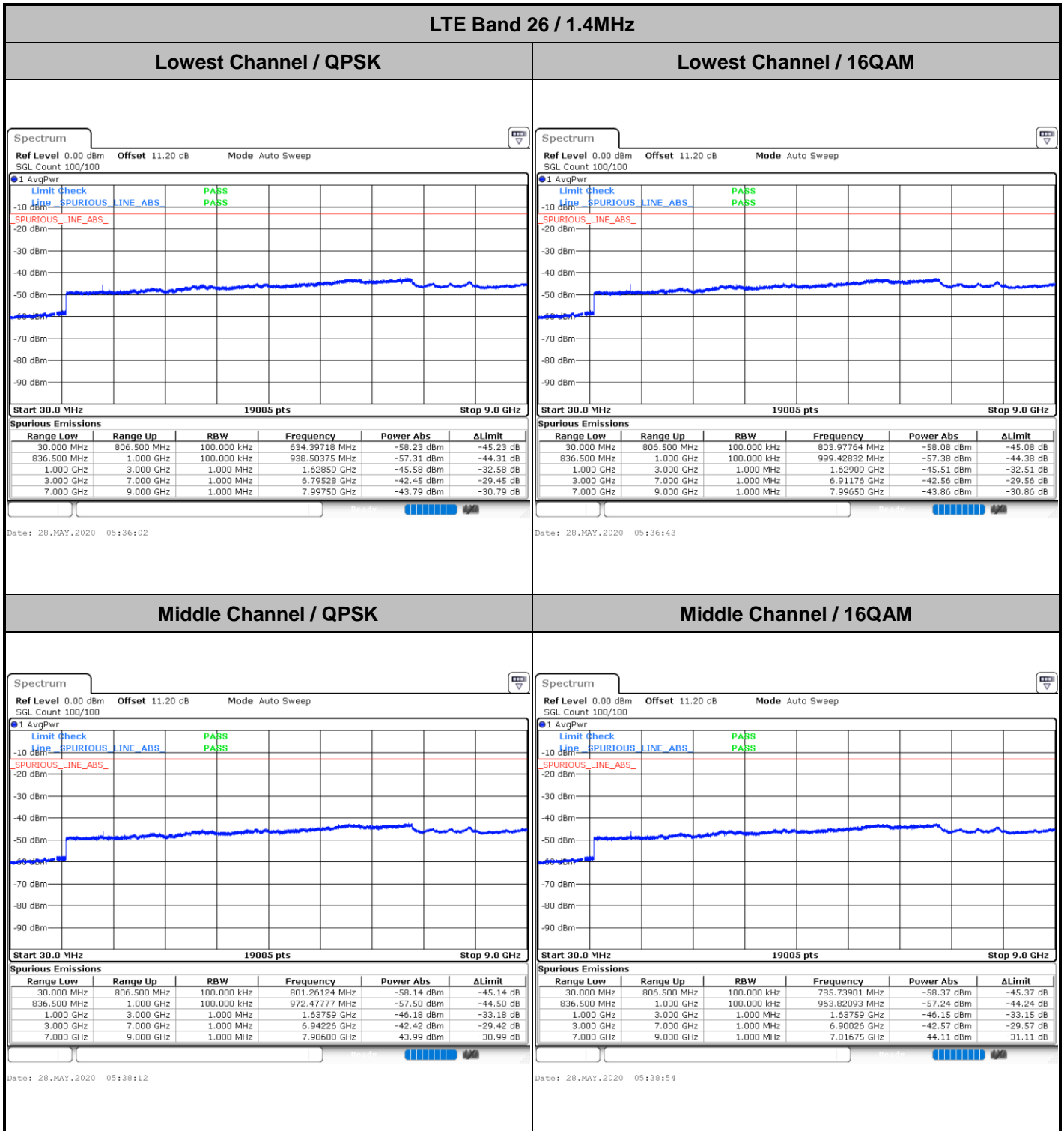
Date: 28.MAY.2020 06:07:03



Date: 28.MAY.2020 06:08:02



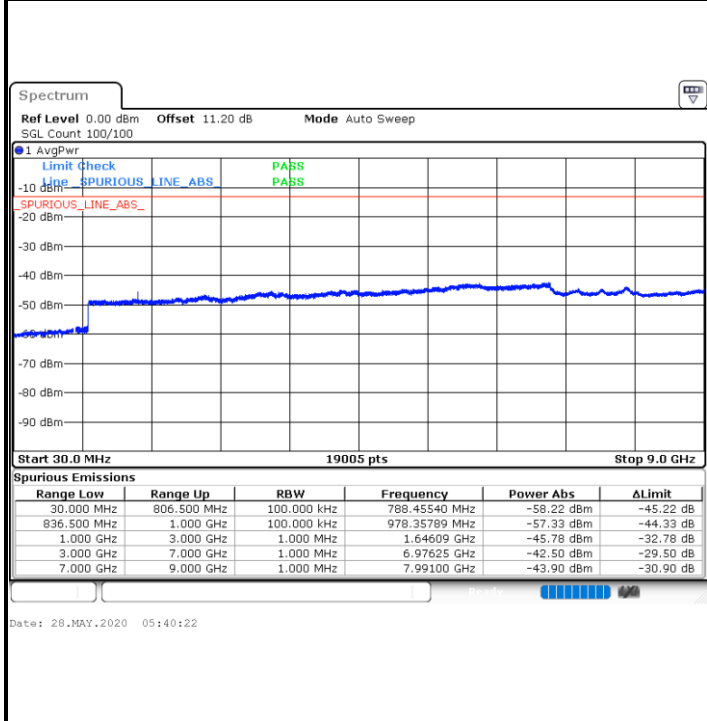
Emission masks – Out of band emissions



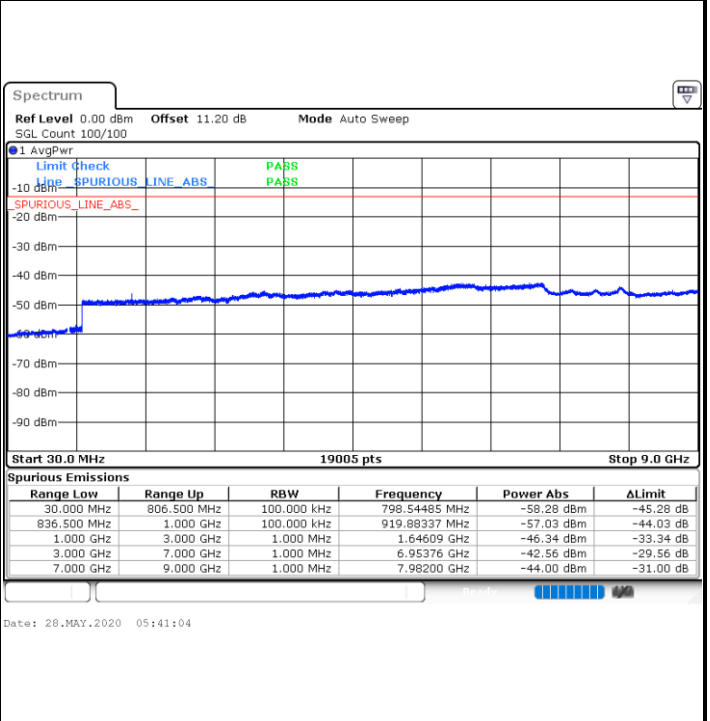


LTE Band 26 / 1.4MHz

Highest Channel / QPSK

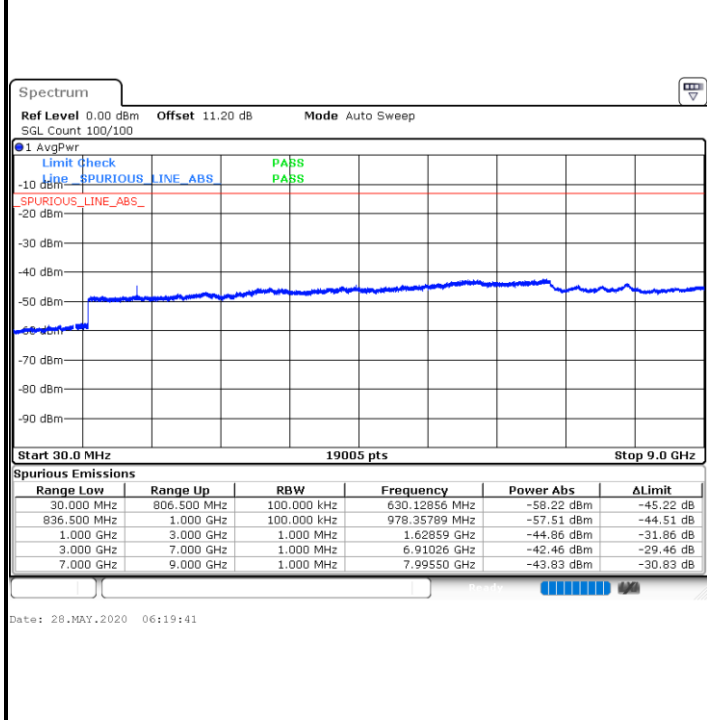


Highest Channel / 16QAM

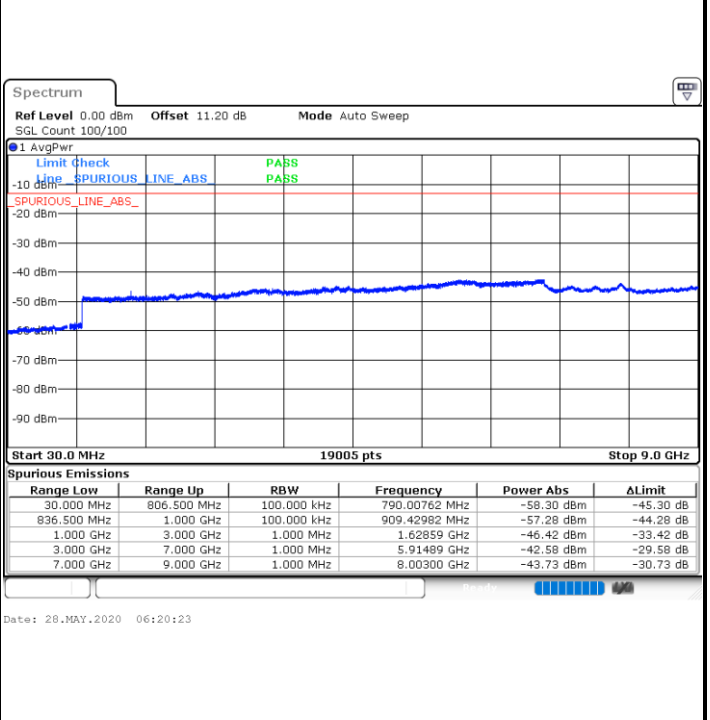


LTE Band 26 / 3MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

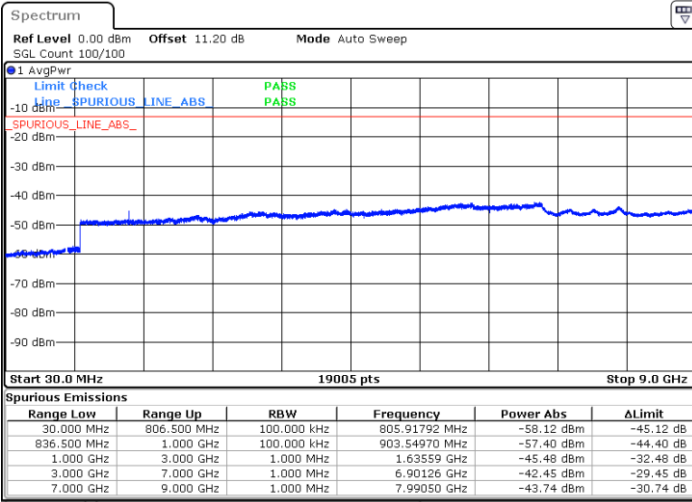




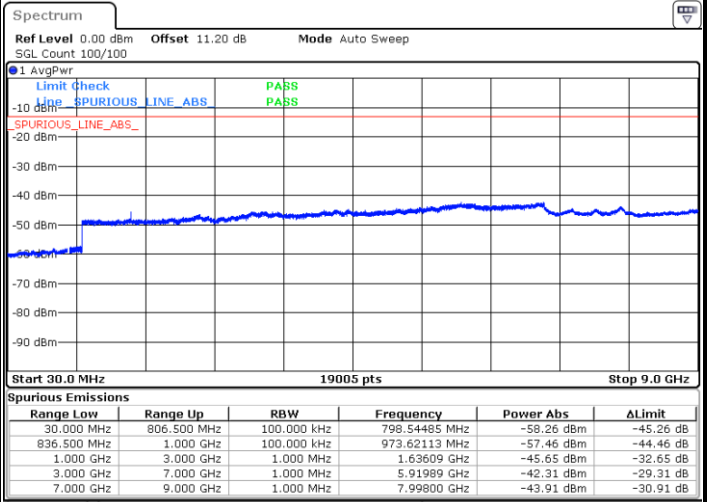
LTE Band 26 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM



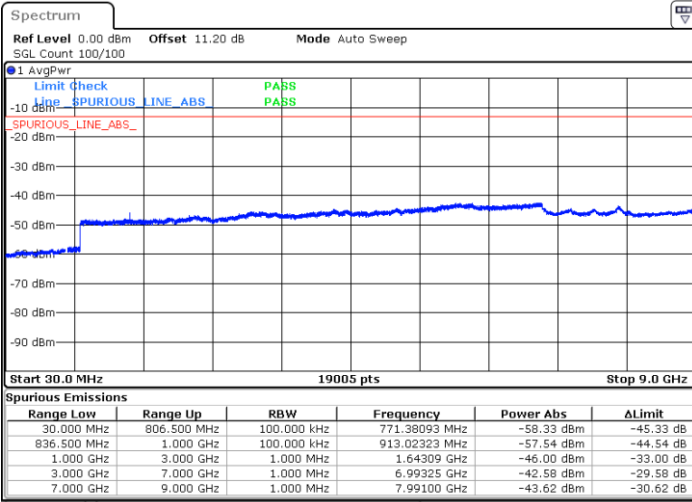
Date: 28.MAY.2020 06:21:52



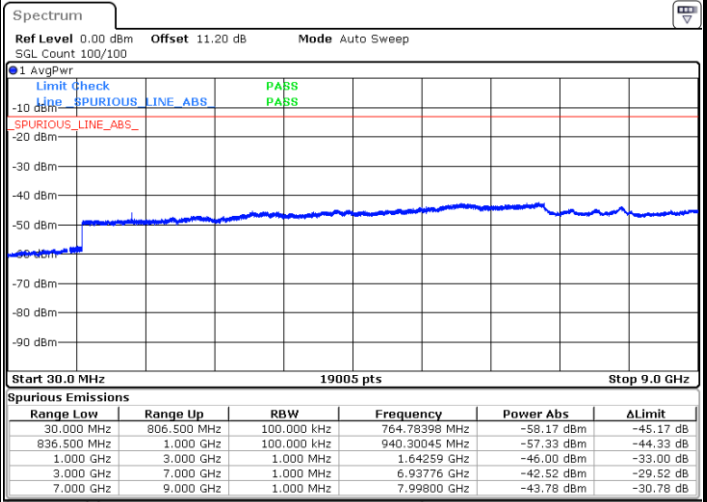
Date: 28.MAY.2020 06:22:33

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 28.MAY.2020 06:24:02



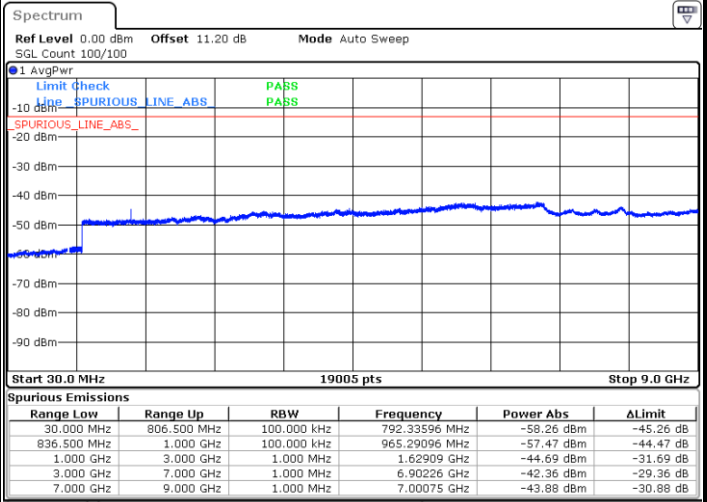
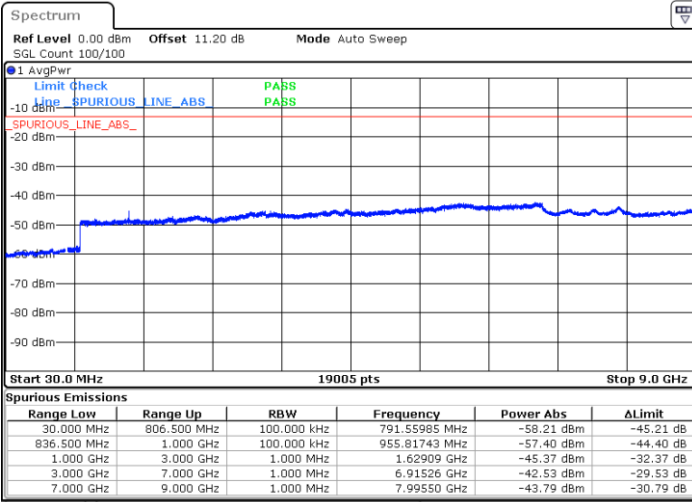
Date: 28.MAY.2020 06:24:44



LTE Band 26 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

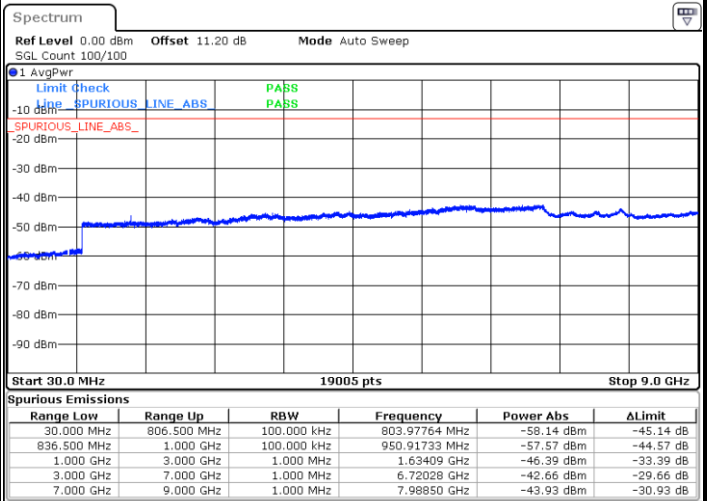
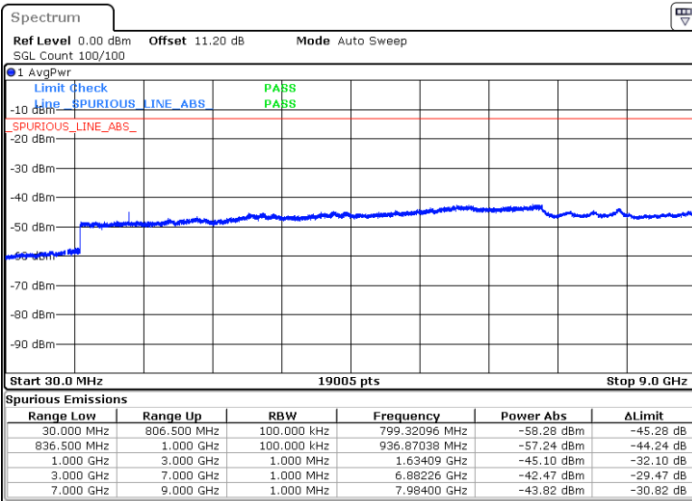


Date: 28.MAY.2020 06:26:14

Date: 28.MAY.2020 06:26:56

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 28.MAY.2020 06:28:25

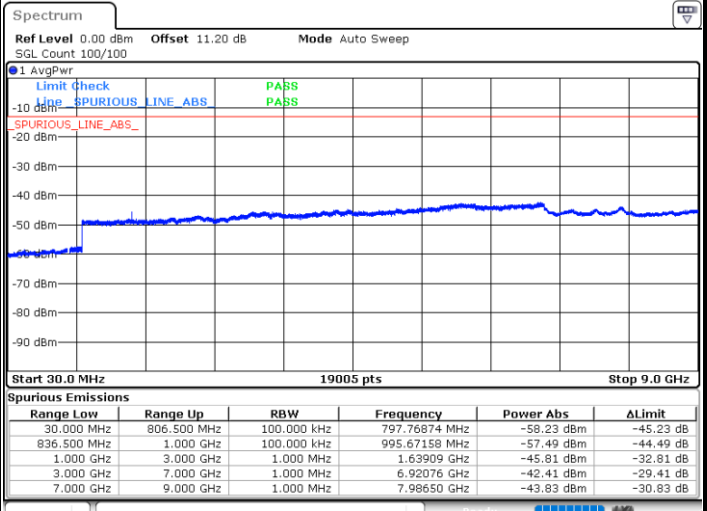
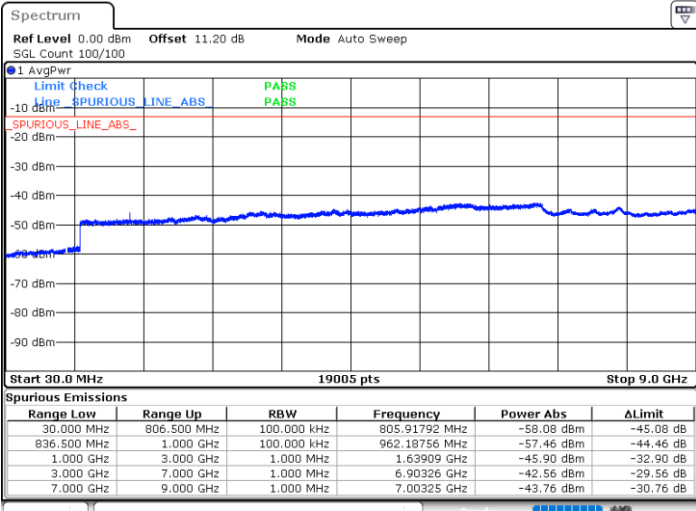
Date: 28.MAY.2020 06:29:06



LTE Band 26 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



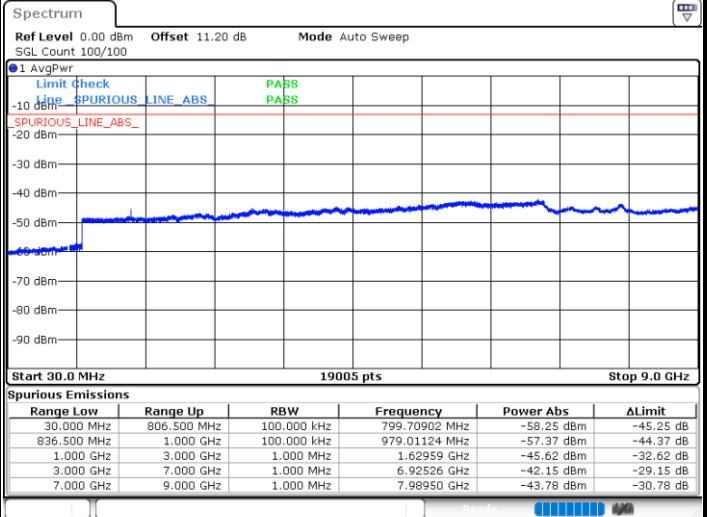
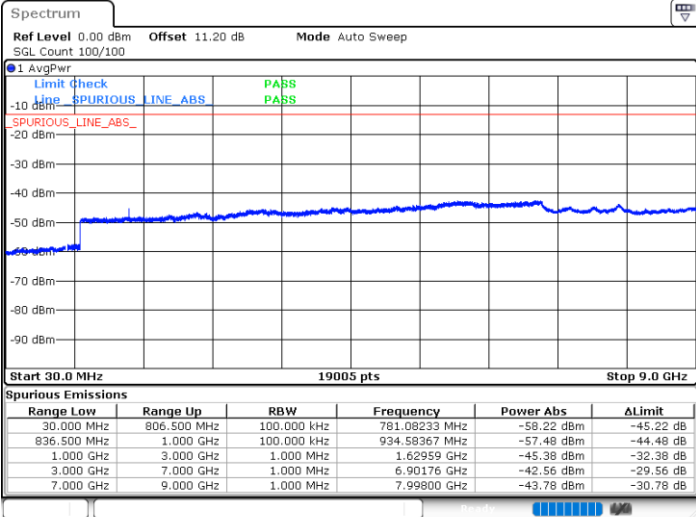
Date: 28.MAY.2020 06:30:35

Date: 28.MAY.2020 06:31:17

LTE Band 26 / 10MHz

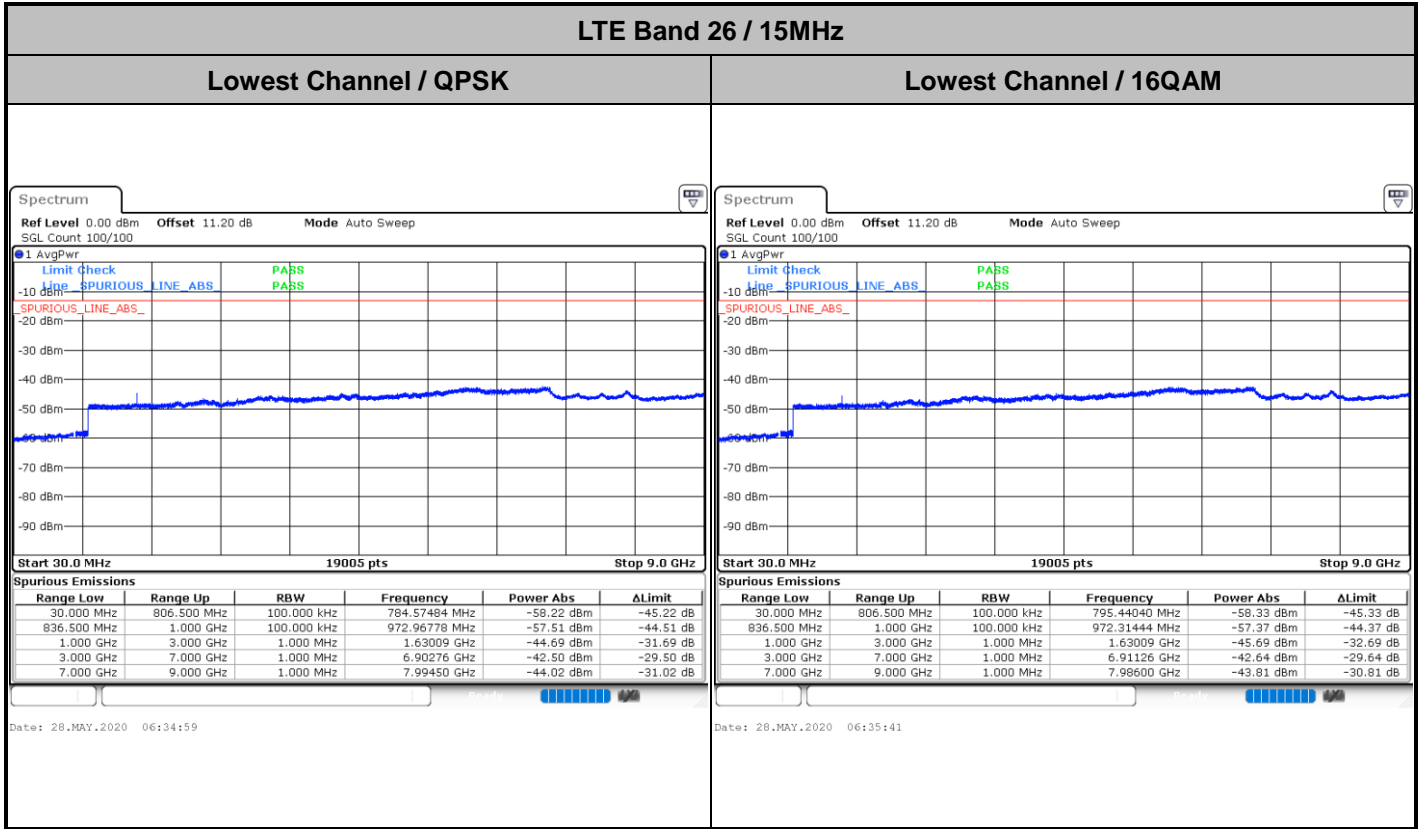
Middle Channel / QPSK

Middle Channel / 16QAM



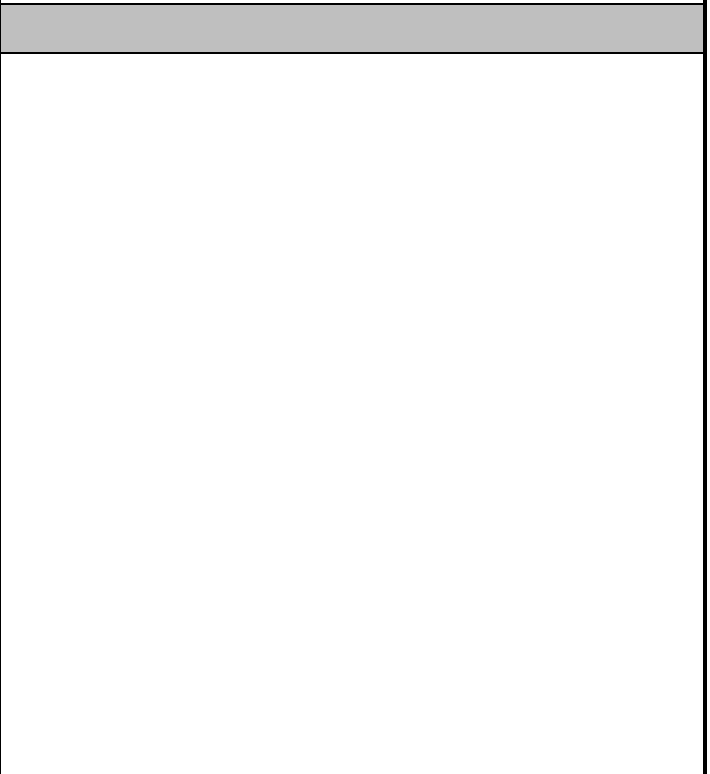
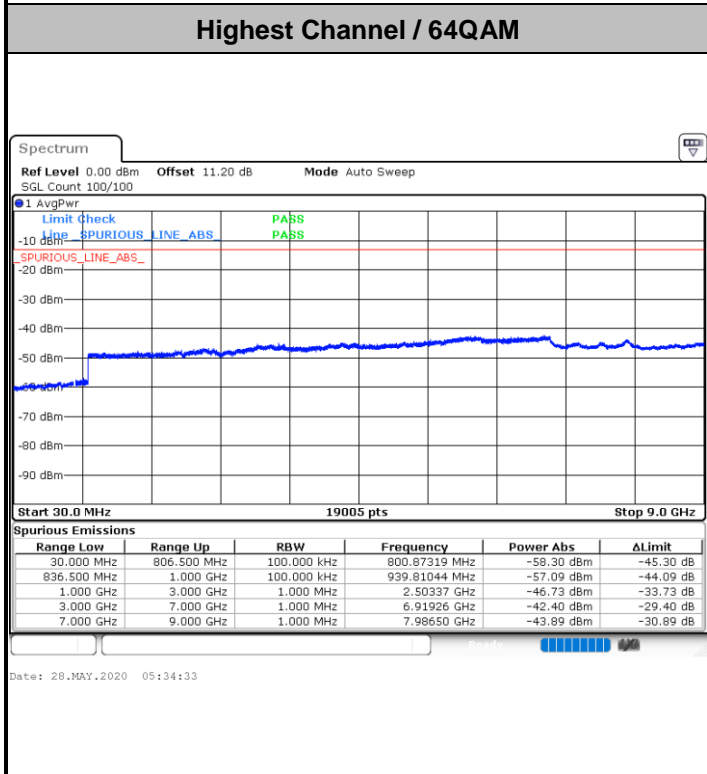
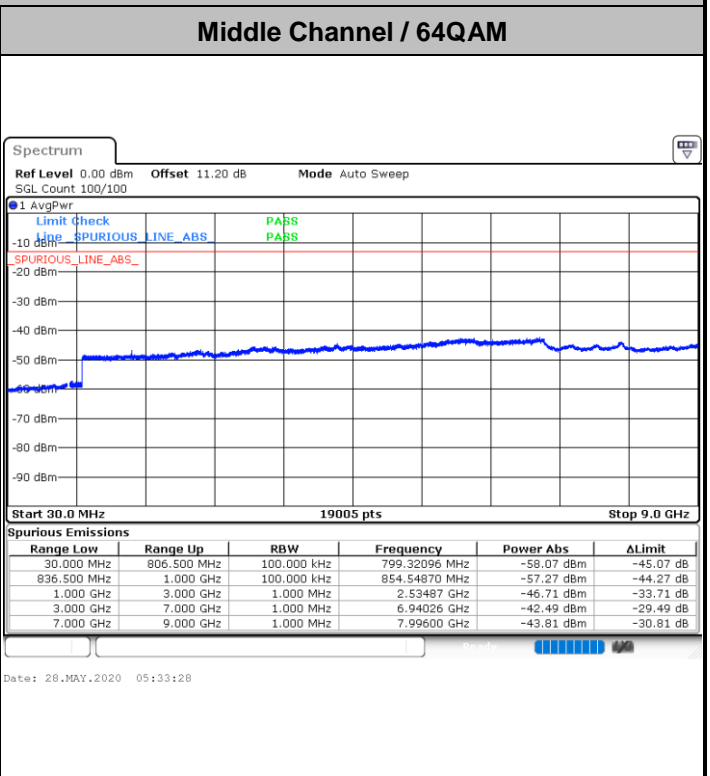
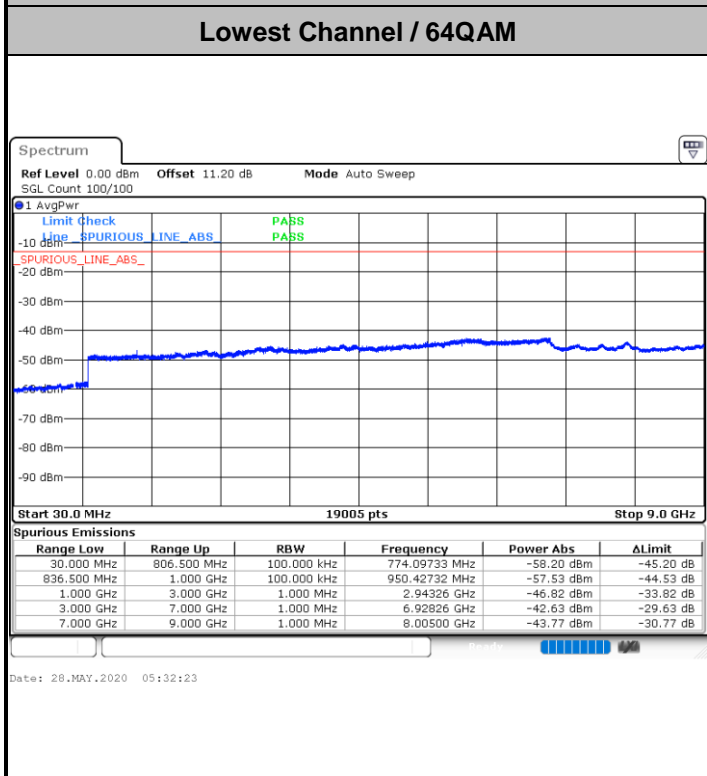
Date: 28.MAY.2020 06:32:47

Date: 28.MAY.2020 06:33:29





LTE Band 26 / 1.4MHz

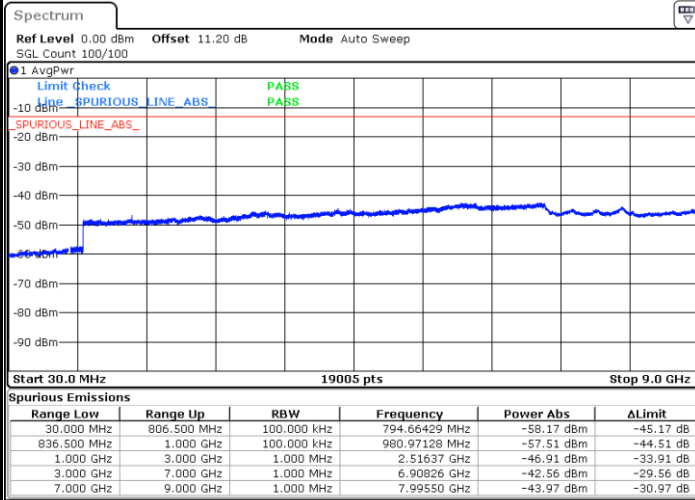




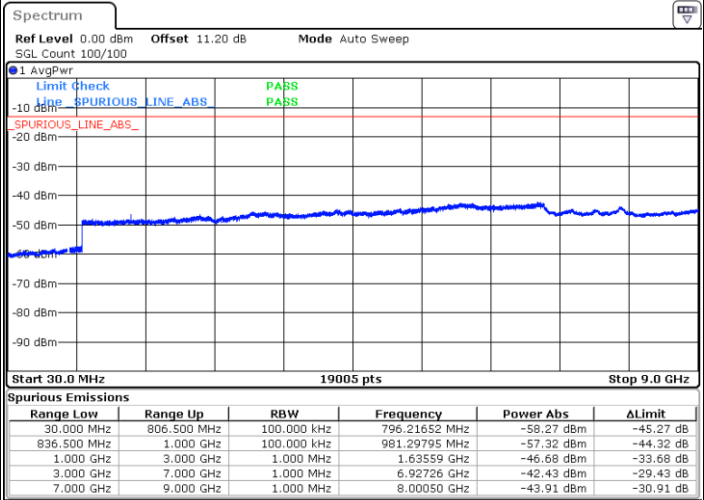
LTE Band 26 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

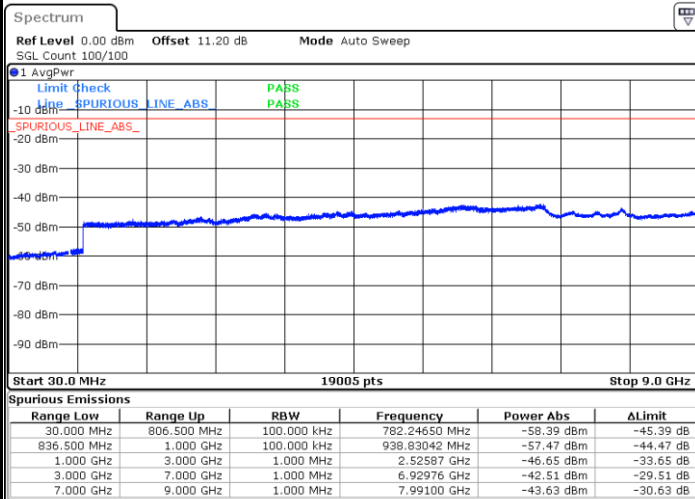


Date: 28.MAY.2020 06:09:08



Date: 28.MAY.2020 06:10:13

Highest Channel / 64QAM



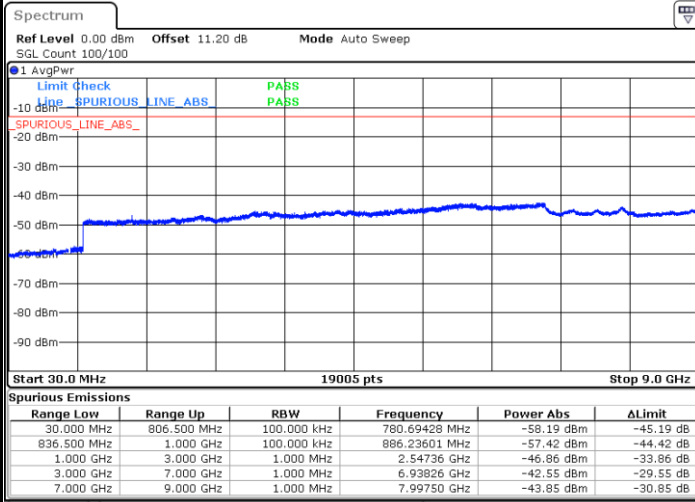
Date: 28.MAY.2020 06:11:19



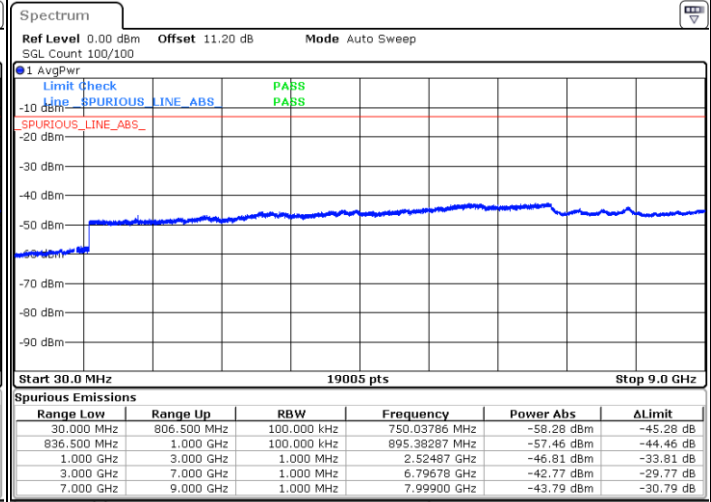
LTE Band 26 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

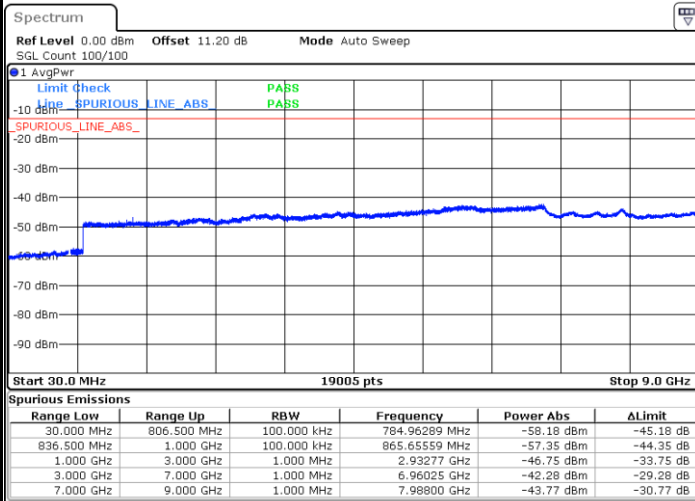


Date: 28.MAY.2020 06:12:25

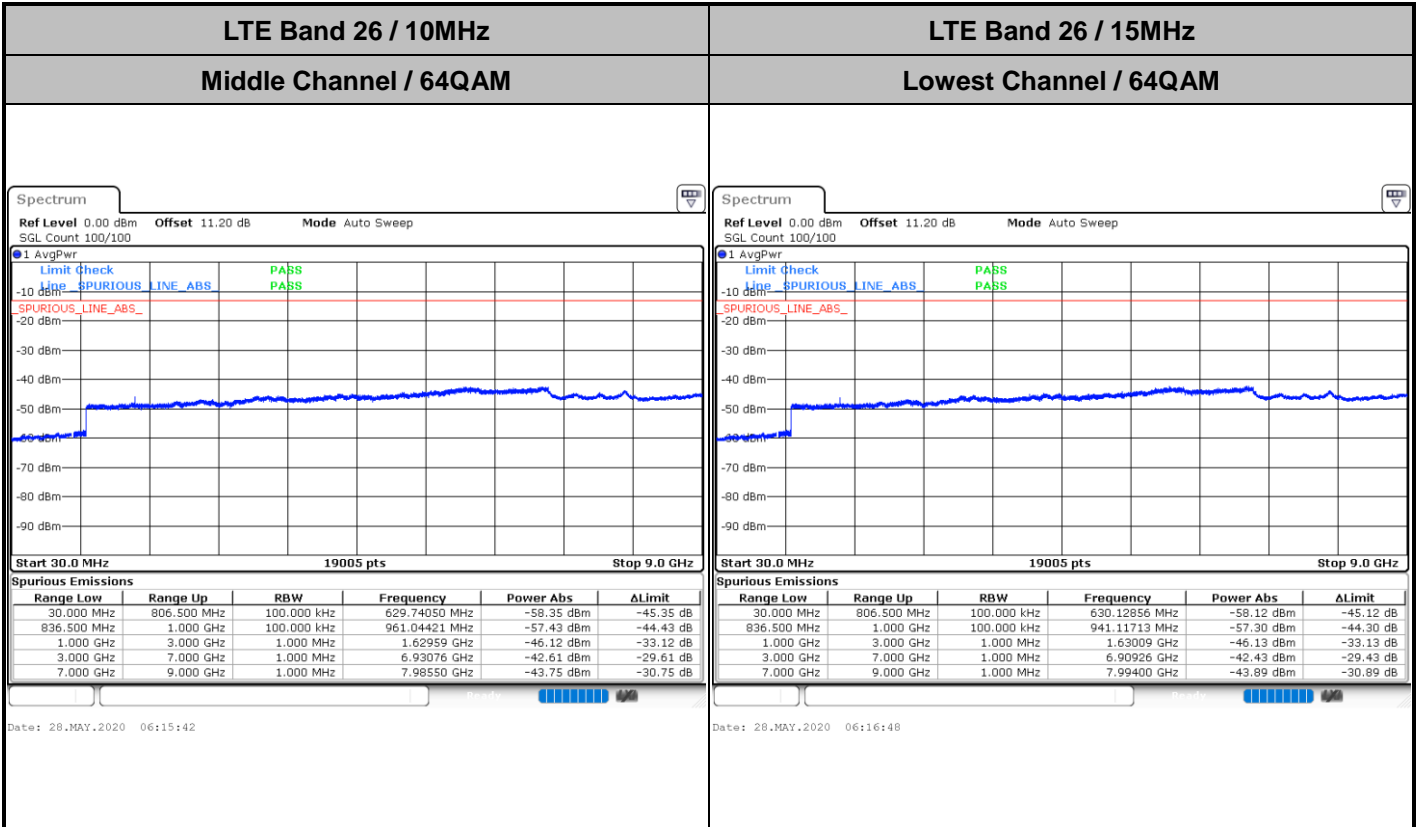


Date: 28.MAY.2020 06:13:30

Highest Channel / 64QAM



Date: 28.MAY.2020 06:14:35





Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0046	PASS
40	Normal Voltage	0.0039	
30	Normal Voltage	0.0077	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0046	
0	Normal Voltage	0.0044	
-10	Normal Voltage	0.0037	
-20	Normal Voltage	0.0067	
-30	Normal Voltage	0.0098	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0046	
20	Battery End Point	0.0094	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 26 (QPSK) / Low Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0127	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0135	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0127	
0	Normal Voltage	0.0063	
-10	Normal Voltage	0.0085	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0155	
20	Maximum Voltage	0.0027	
20	Normal Voltage	0.0127	
20	Battery End Point	0.0004	

Note:

- 1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of ERP and Radiated Test

ERP

<Primary Antenna>

LTE Band 26 / 15MHz (Channel 26765) (GT - LC = -2.8 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	24.41	0.2761	19.46	0.0883
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	16QAM	1	0	23.71	0.2350	18.76	0.0752
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	64QAM	1	0	22.58	0.1811	17.63	0.0579
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Limit	ERP < 7W			Result		PASS	



<ASDIV Antenna>

LTE Band 26 / 15MHz (Channel 26765) (GT - LC = -3.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	24.58	0.2871	18.93	0.0782
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	16QAM	1	0	23.91	0.2460	18.26	0.0670
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	64QAM	1	74	22.78	0.1897	17.13	0.0516
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Limit	ERP < 7W		Result		PASS		



Radiated Spurious Emission

<Primary Antenna>

<Ant. 0>

LTE Band 26

LTE Band 26 / 5MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1628	-61.01	-13	-48.01	-74.44	-66.53	0.91	8.59	H
	2443	-56.43	-13	-43.43	-74.71	-63.76	1.14	10.62	H
	3257	-54.49	-13	-41.49	-74.73	-62.94	1.32	11.92	H
									H
									H
	1628	-61.49	-13	-48.49	-74.46	-67.01	0.91	8.59	V
	2443	-56.01	-13	-43.01	-74.36	-63.34	1.14	10.62	V
	3257	-54.24	-13	-41.24	-74.97	-62.69	1.32	11.92	V
									V
									V
Middle	1633	-60.50	-13	-47.50	-73.93	-66.04	0.92	8.61	H
	2450	-56.51	-13	-43.51	-74.8	-63.85	1.14	10.63	H
	3267	-54.51	-13	-41.51	-74.73	-62.98	1.32	11.94	H
									H
									H
	1633	-61.03	-13	-48.03	-73.99	-66.57	0.92	8.61	V
	2450	-56.42	-13	-43.42	-74.81	-63.76	1.14	10.63	V
	3267	-54.41	-13	-41.41	-75.11	-62.88	1.32	11.94	V
									V
									V



Highest	1638	-60.81	-13	-47.81	-74.26	-66.37	0.92	8.62	H
	2458	-56.43	-13	-43.43	-74.74	-63.78	1.14	10.64	H
	3277	-54.48	-13	-41.48	-74.68	-62.97	1.32	11.96	H
									H
									H
									H
									H
	1638	-61.40	-13	-48.40	-74.36	-66.96	0.92	8.62	V
	2458	-56.21	-13	-43.21	-74.63	-63.56	1.14	10.64	V
	3277	-54.20	-13	-41.20	-74.88	-62.69	1.32	11.96	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 26 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1646	-60.14	-13	-47.14	-73.61	-65.73	0.92	8.65	H
	2470	-52.47	-13	-39.47	-70.78	-59.83	1.14	10.66	H
	3293	-54.66	-13	-41.66	-74.83	-63.19	1.32	12.00	H
									H
									H
									H
									H
	1646	-60.57	-13	-47.57	-73.52	-66.16	0.92	8.65	V
	2470	-52.13	-13	-39.13	-70.58	-59.49	1.14	10.66	V
	3293	-54.42	-13	-41.42	-75.06	-62.95	1.32	12.00	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 26 / 15MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1629	-60.42	-13	-47.42	-73.85	-65.95	0.91	8.59	H
	2444	-56.43	-13	-43.43	-74.71	-63.76	1.14	10.62	H
	3259	-54.83	-13	-41.83	-75.06	-63.28	1.32	11.92	H
									H
									H
									H
									H
	1629	-61.06	-13	-48.06	-74.03	-66.59	0.91	8.59	V
	2444	-56.35	-13	-43.35	-74.71	-63.68	1.14	10.62	V
	3259	-54.21	-13	-41.21	-74.93	-62.66	1.32	11.92	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



<ASDIV Antenna>

<Ant. 1>

LTE Band 26

LTE Band 26 / 5MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1628	-61.08	-13	-48.08	-74.51	-66.60	0.91	8.59	H
	2443	-56.17	-13	-43.17	-74.45	-63.50	1.14	10.62	H
	3257	-54.86	-13	-41.86	-75.1	-63.31	1.32	11.92	H
									H
									H
									H
	1628	-61.32	-13	-48.32	-74.29	-66.84	0.91	8.59	V
	2443	-54.43	-13	-41.43	-72.78	-61.76	1.14	10.62	V
	3257	-54.27	-13	-41.27	-75	-62.72	1.32	11.92	V
									V
									V
									V
Middle	1632	-60.87	-13	-47.87	-74.3	-66.41	0.91	8.60	H
	2450	-56.08	-13	-43.08	-74.37	-63.42	1.14	10.63	H
	3264	-54.79	-13	-41.79	-75.02	-63.26	1.32	11.93	H
									H
									H
									H
	1632	-61.19	-13	-48.19	-74.15	-66.73	0.91	8.60	V
	2450	-53.88	-13	-40.88	-72.27	-61.22	1.14	10.63	V
	3264	-54.21	-13	-41.21	-74.92	-62.68	1.32	11.93	V
									V
									V
									V



Highest	1638	-60.82	-13	-47.82	-74.27	-66.38	0.92	8.62	H
	2450	-56.31	-13	-43.31	-74.62	-63.65	1.14	10.63	H
	3277	-54.47	-13	-41.47	-74.67	-62.96	1.32	11.96	H
									H
									H
									H
									H
	1638	-61.23	-13	-48.23	-74.19	-66.79	0.92	8.62	V
	2450	-54.98	-13	-41.98	-73.4	-62.32	1.14	10.63	V
	3277	-53.94	-13	-40.94	-74.62	-62.43	1.32	11.96	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 26 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1646	-60.60	-13	-47.60	-74.07	-66.19	0.92	8.65	H
	2470	-56.09	-13	-43.09	-74.4	-63.45	1.14	10.66	H
	3293	-54.92	-13	-41.92	-75.09	-63.45	1.32	12.00	H
									H
									H
									H
									H
	1646	-61.19	-13	-48.19	-74.14	-66.78	0.92	8.65	V
	2470	-54.93	-13	-41.93	-73.38	-62.29	1.14	10.66	V
	3293	-54.25	-13	-41.25	-74.89	-62.78	1.32	12.00	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 26 / 15MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1629	-60.06	-13	-47.06	-73.49	-65.59	0.91	8.59	H
	2444	-56.21	-13	-43.21	-74.49	-63.54	1.14	10.62	H
	3259	-54.81	-13	-41.81	-75.04	-63.26	1.32	11.92	H
									H
									H
									H
									H
	1629	-60.29	-13	-47.29	-73.26	-65.82	0.91	8.59	V
	2444	-56.23	-13	-43.23	-74.59	-63.56	1.14	10.62	V
	3259	-54.30	-13	-41.30	-75.02	-62.75	1.32	11.92	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

————THE END————