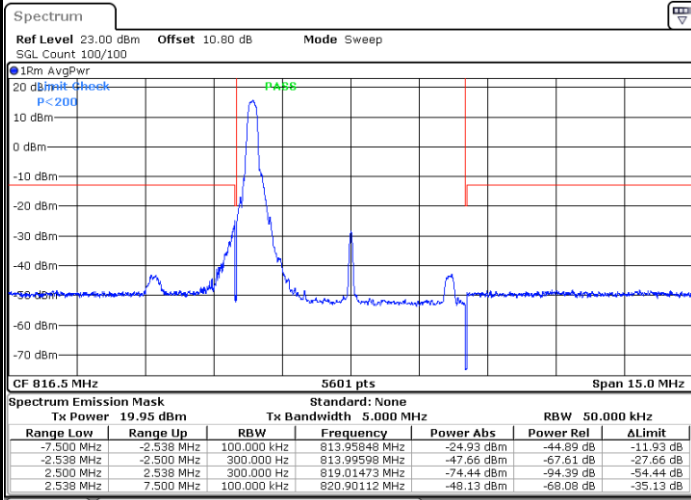




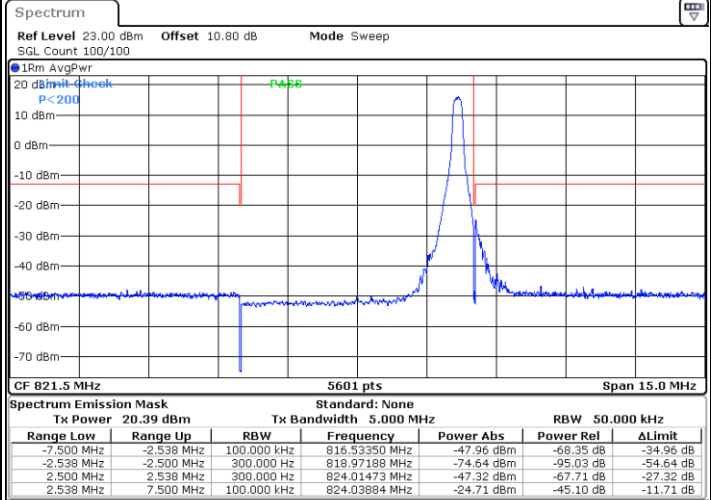
LTE Band 26 / 5MHz / 64QAM

Lowest Band Edge / 1RB



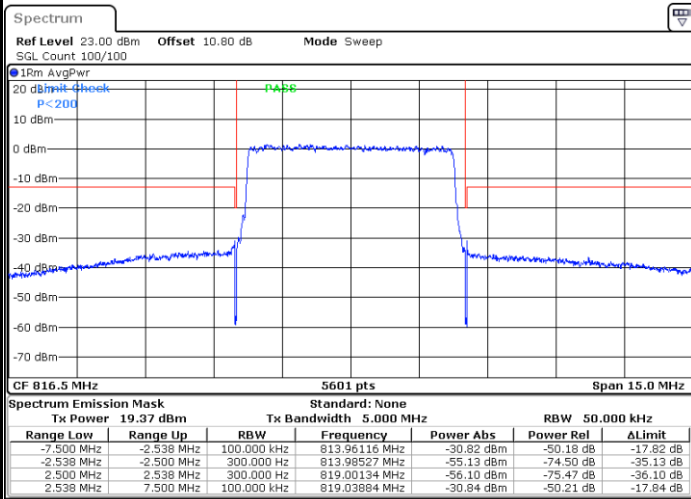
Date: 3.MAR.2020 17:19:13

Highest Band Edge / 1 RB



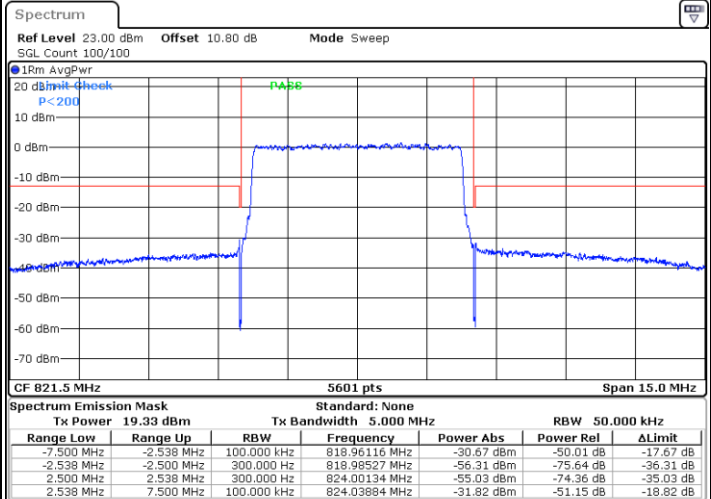
Date: 3.MAR.2020 17:20:13

Lowest Band Edge / Full RB



Date: 3.MAR.2020 17:19:43

Highest Band Edge / Full RB

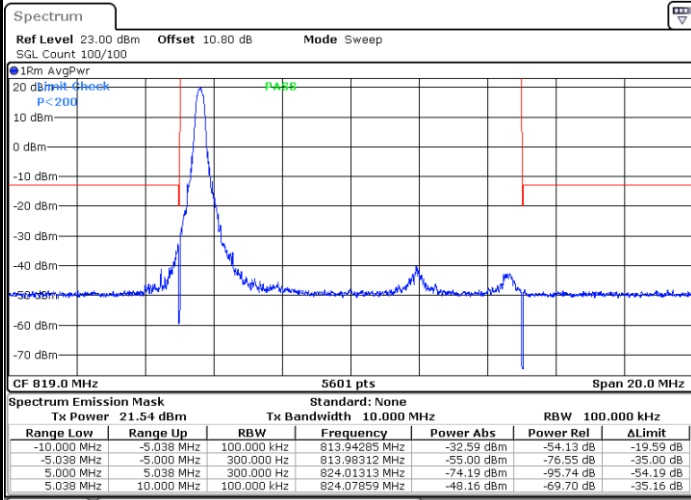


Date: 3.MAR.2020 17:20:43



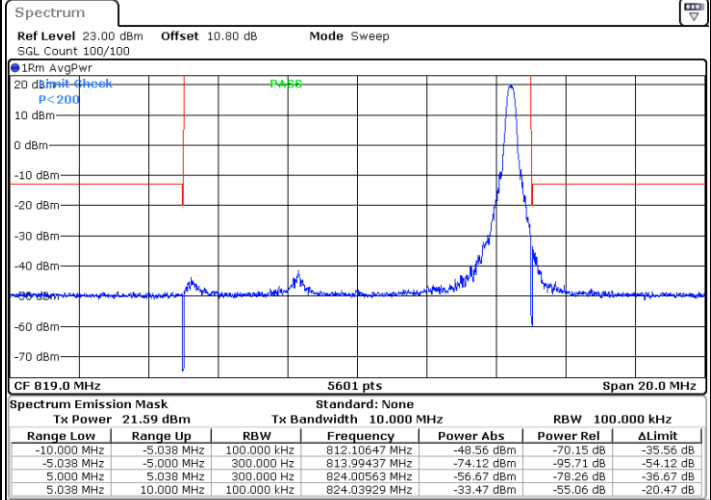
LTE Band 26 / 10MHz / QPSK

Lowest Band Edge / 1 RB



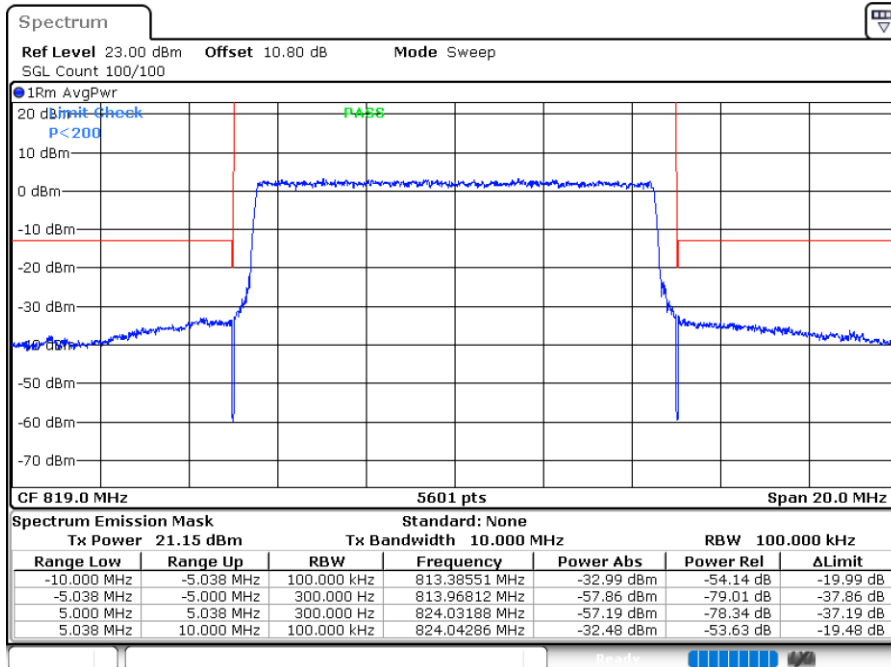
Date: 3.MAR.2020 17:11:15

Highest Band Edge / 1 RB



Date: 3.MAR.2020 17:12:15

Band Edge / Full RB

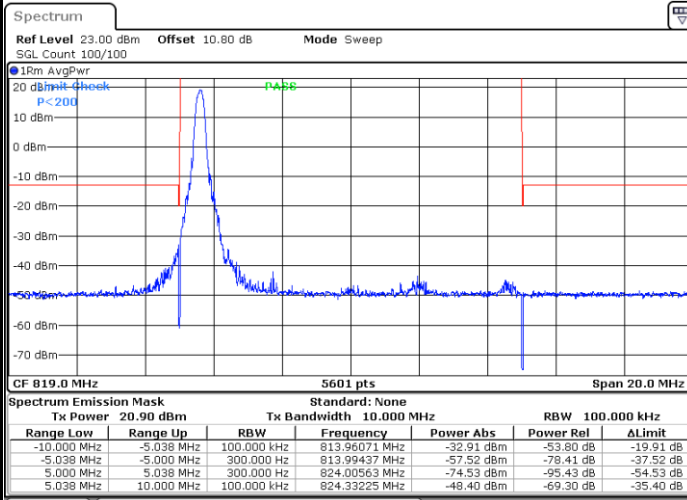


Date: 3.MAR.2020 17:13:14



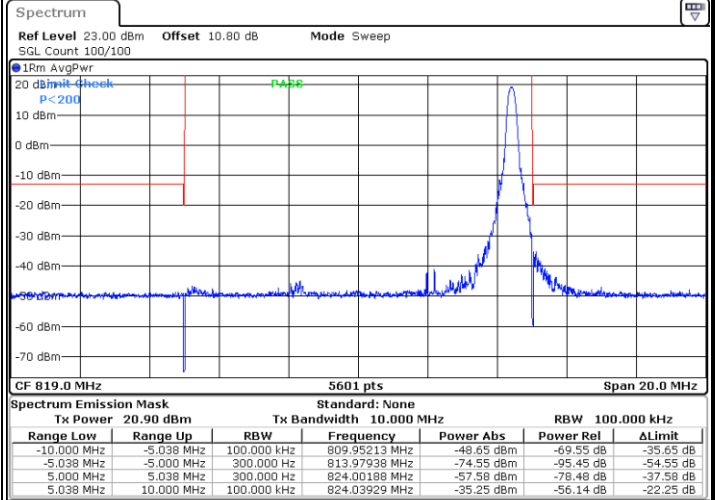
LTE Band 26 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



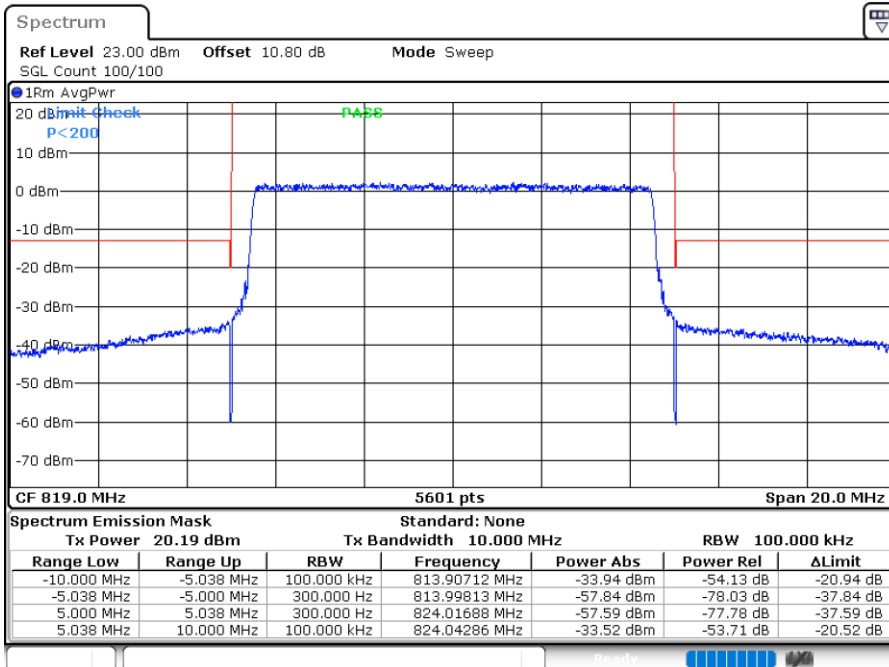
Date: 3.MAR.2020 17:11:45

Highest Band Edge / 1 RB



Date: 3.MAR.2020 17:12:45

Band Edge / Full RB

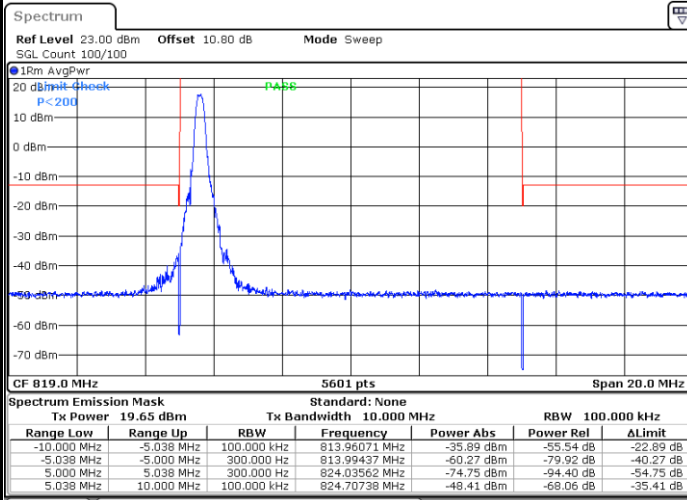


Date: 3.MAR.2020 17:13:44



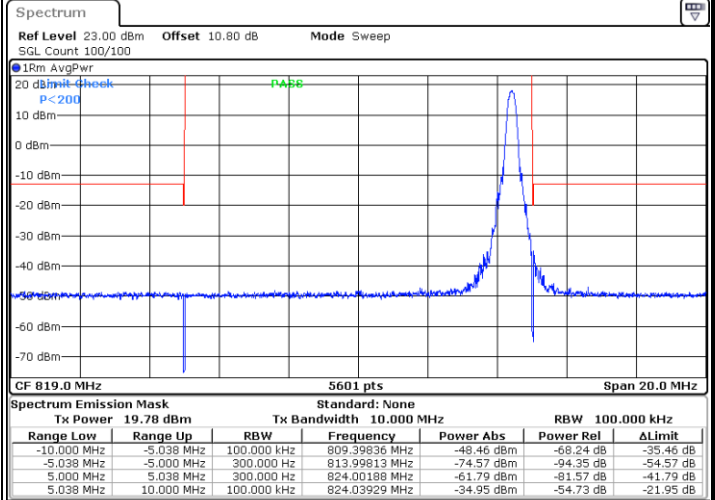
LTE Band 26 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



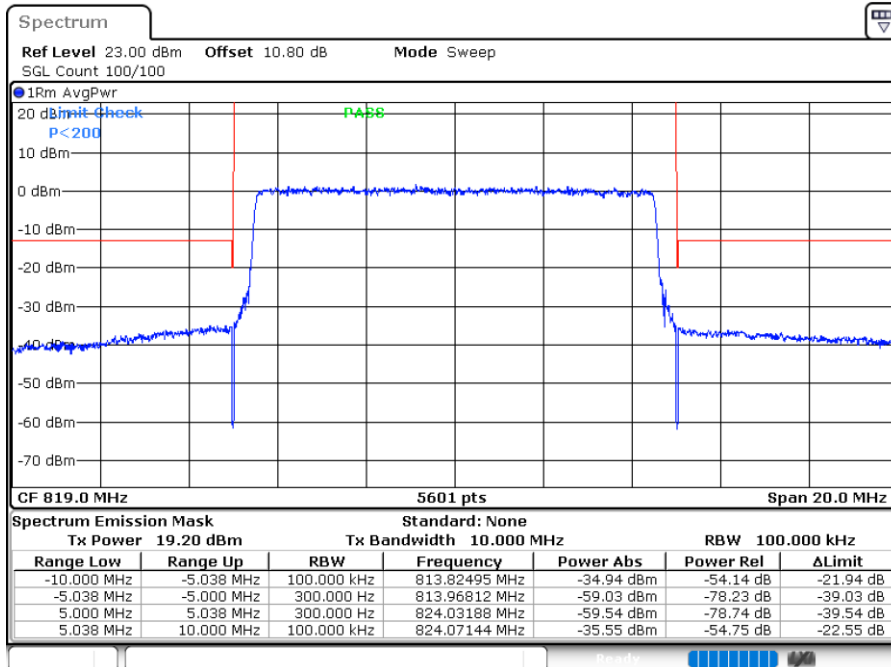
Date: 3.MAR.2020 17:21:13

Highest Band Edge / 1 RB



Date: 3.MAR.2020 17:21:43

Band Edge / Full RB

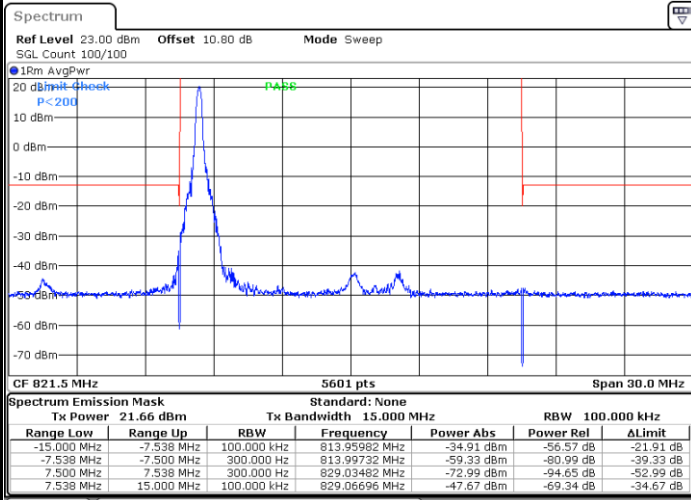


Date: 3.MAR.2020 17:22:12



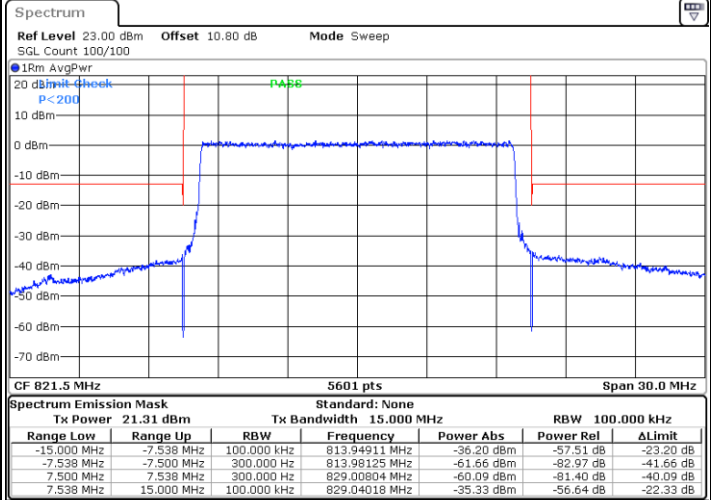
LTE Band 26 / 15MHz QPSK

Lowest Band Edge / 1 RB



Date: 3.MAR.2020 17:14:14

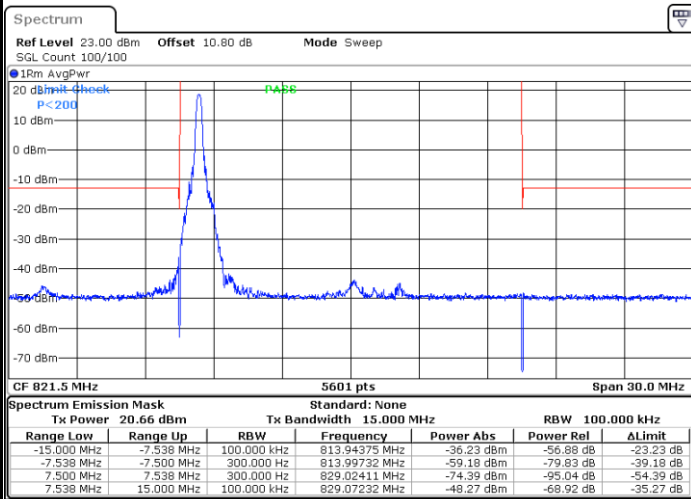
Lowest Band Edge / Full RB



Date: 3.MAR.2020 17:16:13

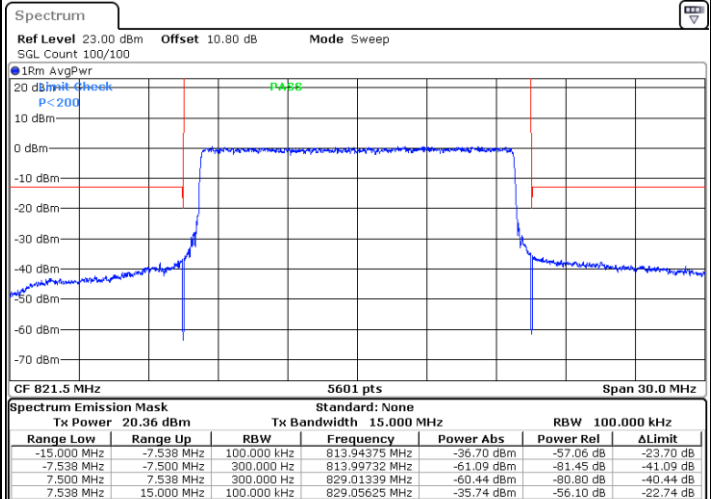
LTE Band 26 / 15MHz 16QAM

Lowest Band Edge / 1 RB



Date: 3.MAR.2020 17:14:44

Lowest Band Edge / Full RB

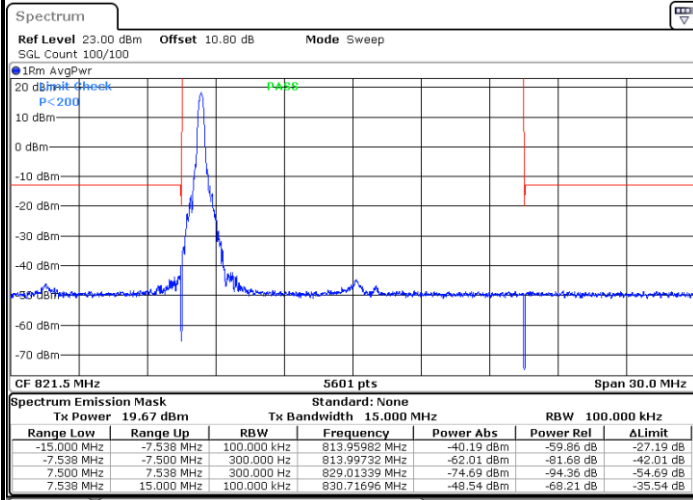


Date: 3.MAR.2020 17:16:43



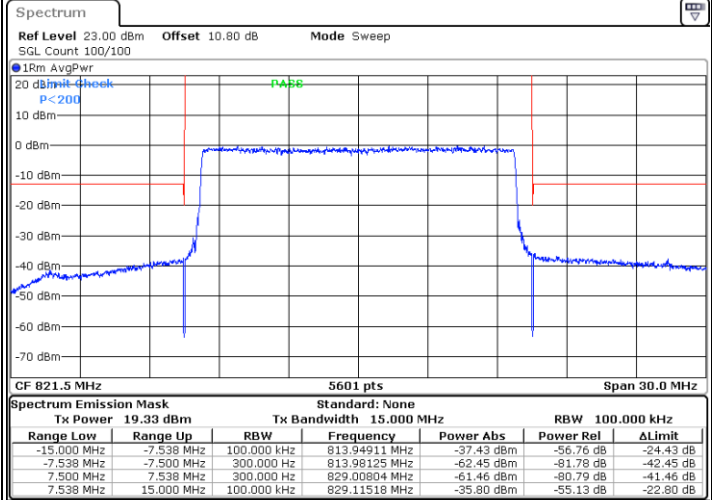
LTE Band 26 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 3.MAR.2020 17:22:42

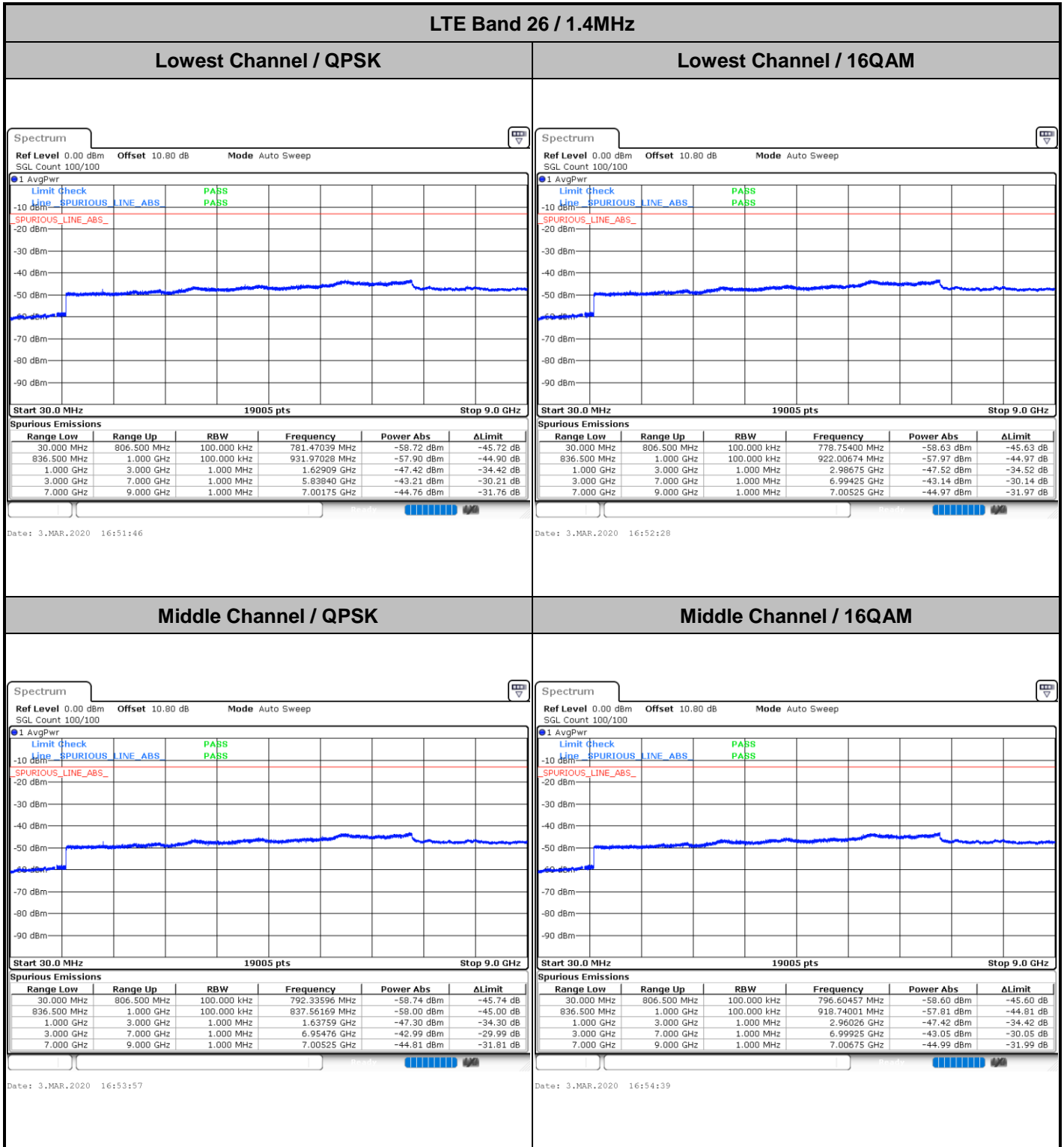
Lowest Band Edge / Full RB



Date: 3.MAR.2020 17:23:42



Emission masks – Out of band emissions

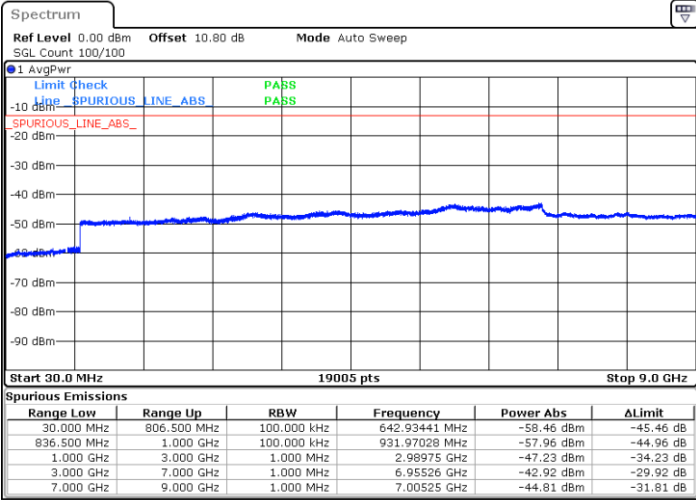




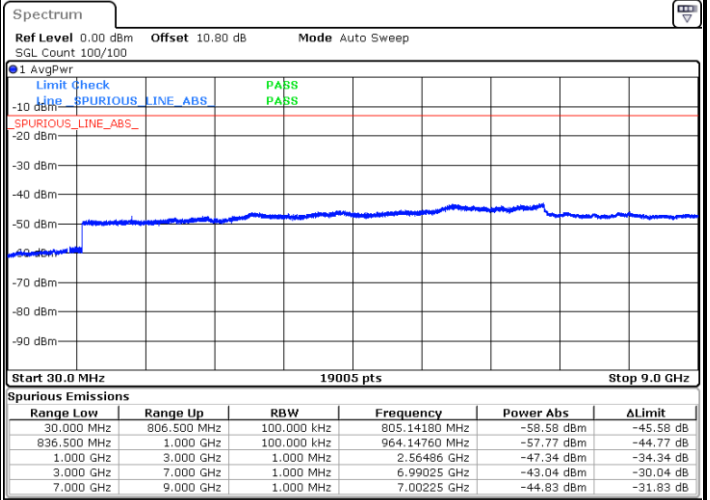
LTE Band 26 / 1.4MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 3.MAR.2020 16:56:09

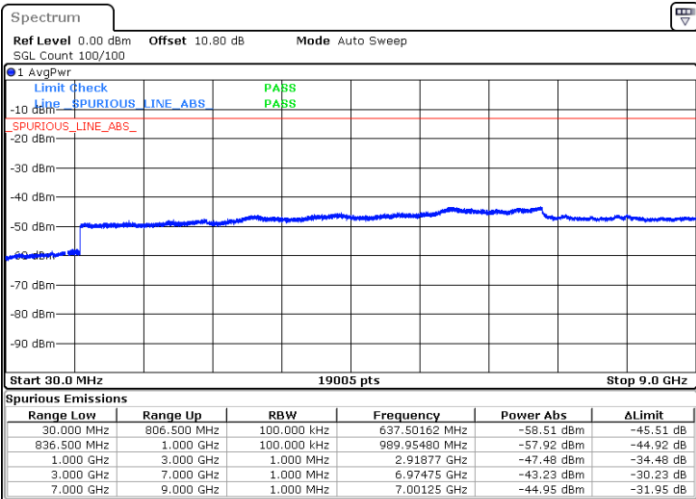


Date: 3.MAR.2020 16:56:50

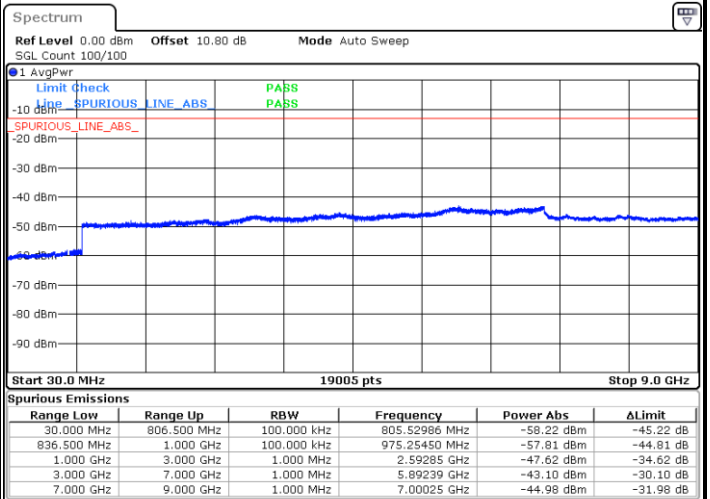
LTE Band 26 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 3.MAR.2020 17:35:21



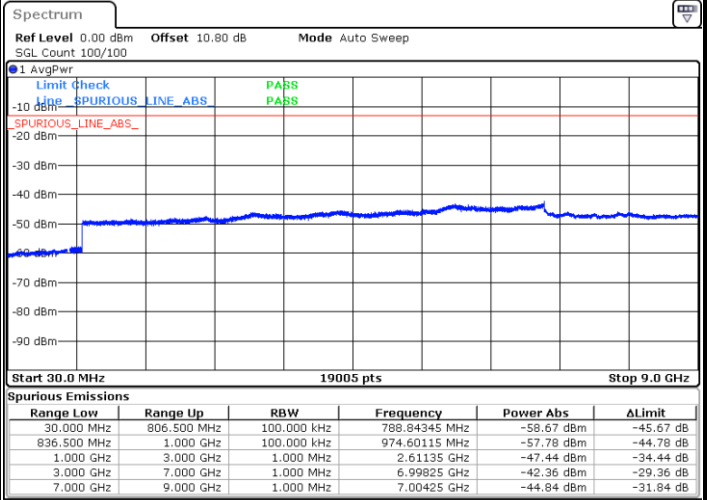
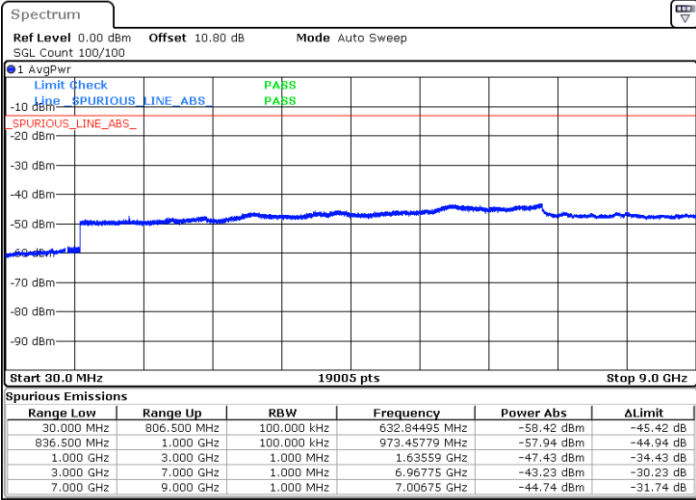
Date: 3.MAR.2020 17:36:03



LTE Band 26 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

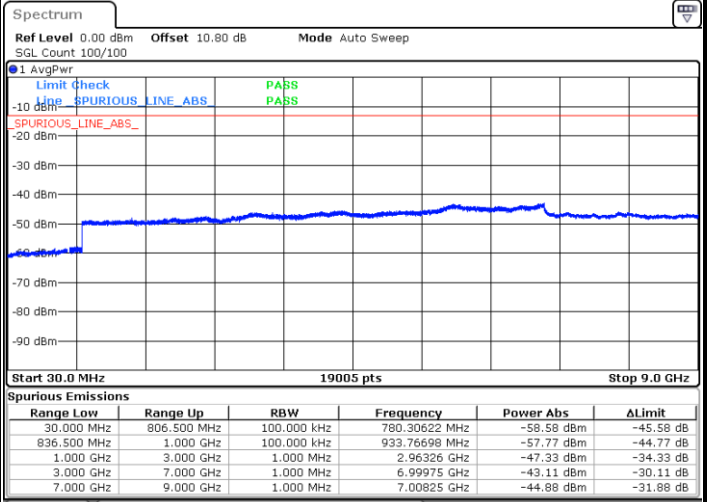
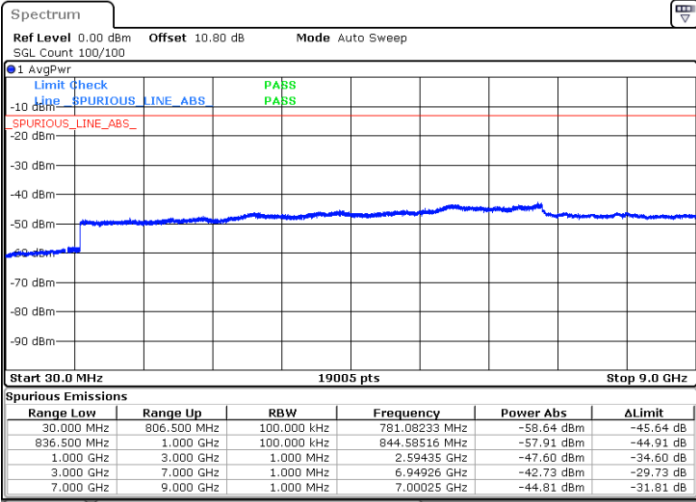


Date: 3.MAR.2020 17:37:33

Date: 3.MAR.2020 17:38:14

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 3.MAR.2020 17:39:44

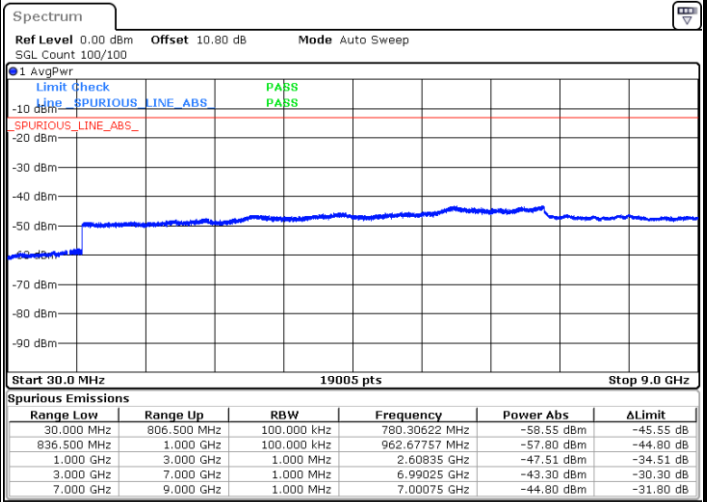
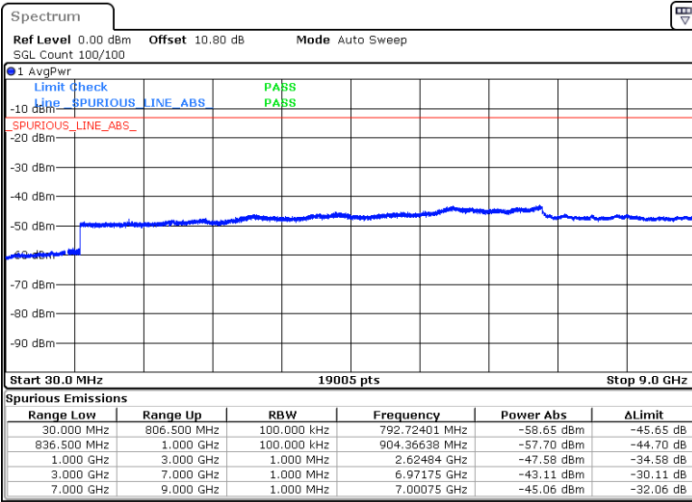
Date: 3.MAR.2020 17:40:26



LTE Band 26 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

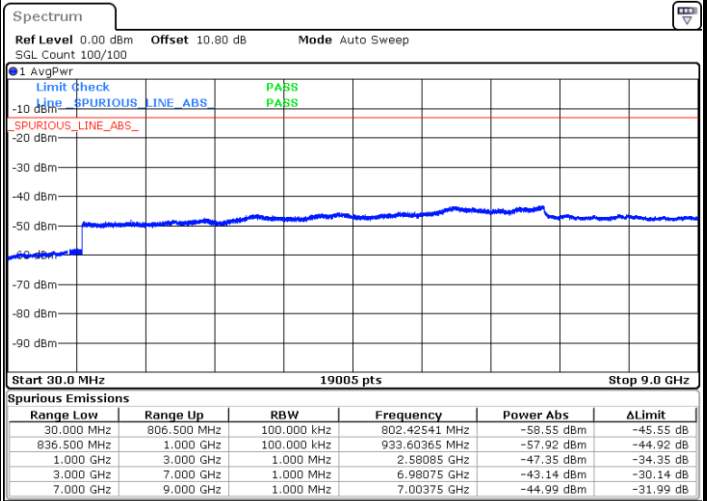
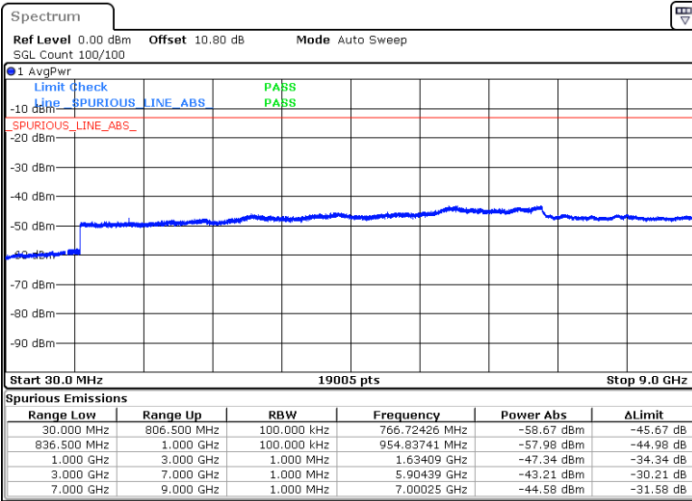


Date: 3.MAR.2020 17:41:57

Date: 3.MAR.2020 17:42:38

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 3.MAR.2020 17:44:08

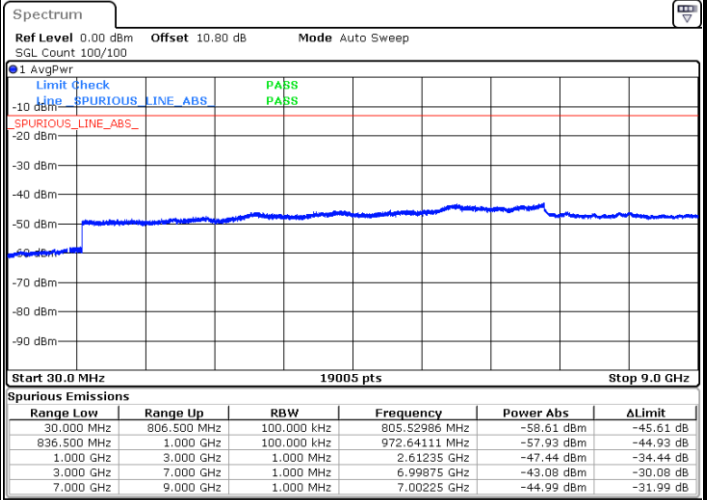
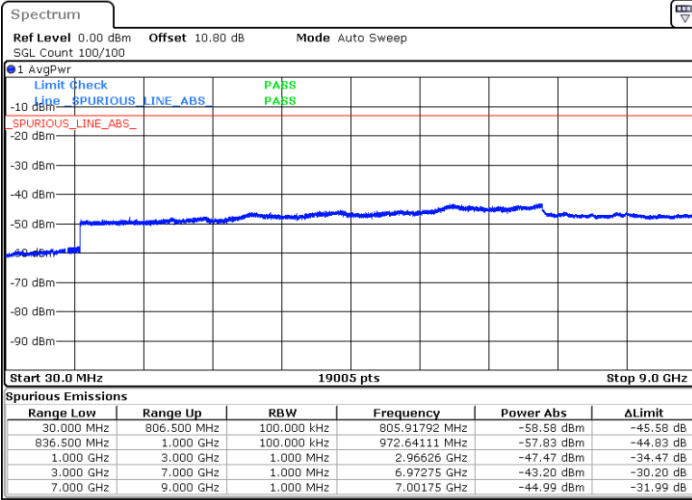
Date: 3.MAR.2020 17:44:50



LTE Band 26 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



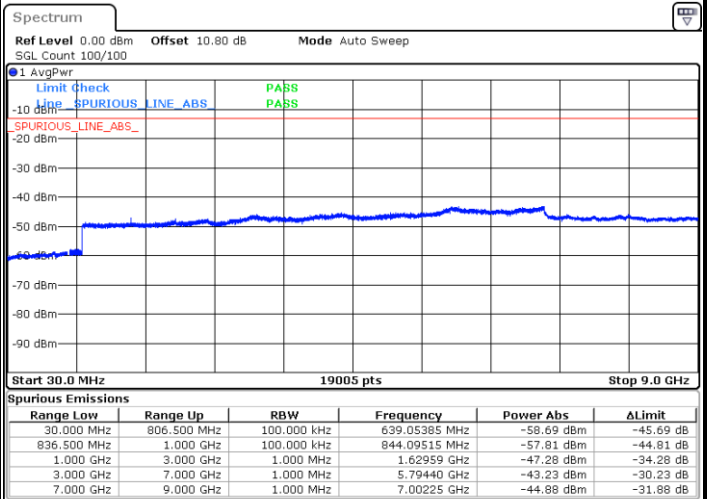
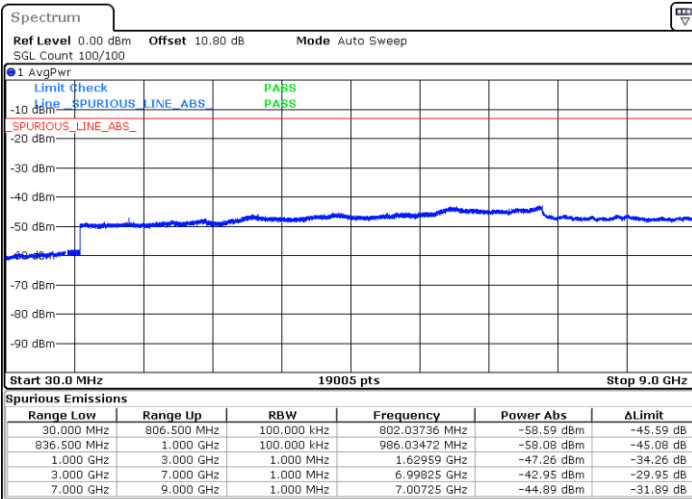
Date: 3.MAR.2020 17:46:20

Date: 3.MAR.2020 17:47:02

LTE Band 26 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 3.MAR.2020 17:48:32

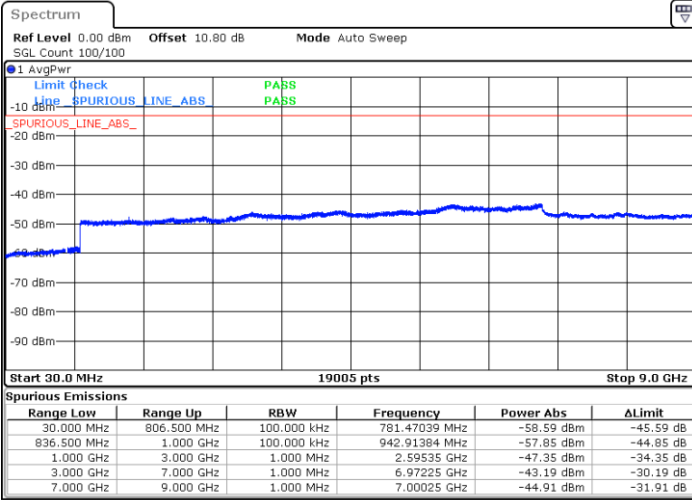
Date: 3.MAR.2020 17:49:14



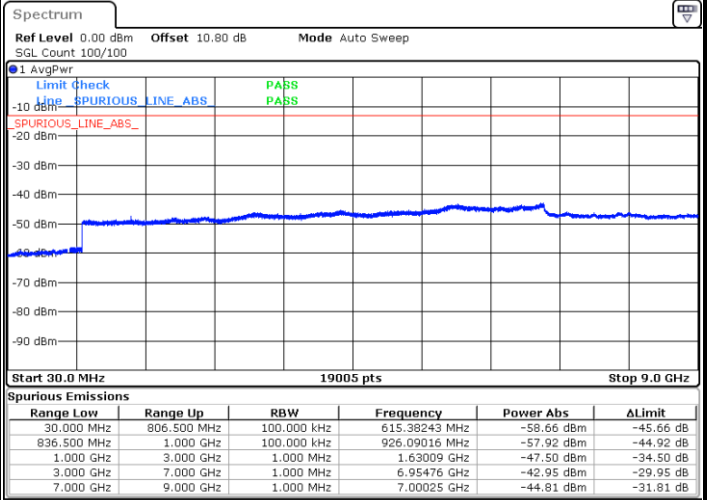
LTE Band 26 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 3.MAR.2020 17:50:44



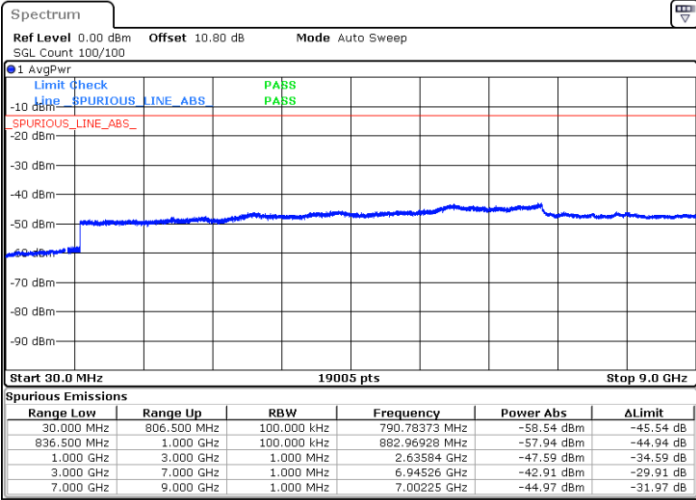
Date: 3.MAR.2020 17:51:26



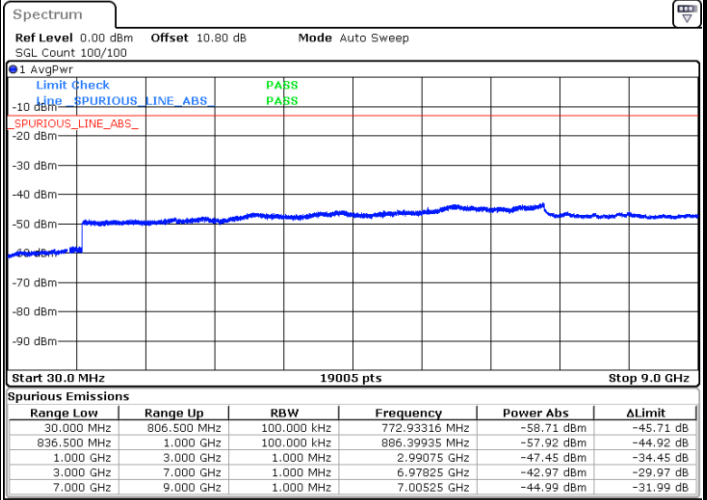
LTE Band 26 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

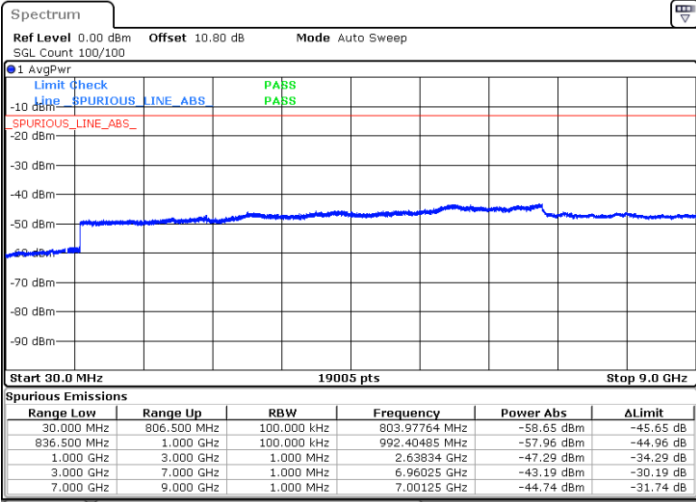


Date: 3.MAR.2020 16:48:06



Date: 3.MAR.2020 16:49:11

Highest Channel / 64QAM



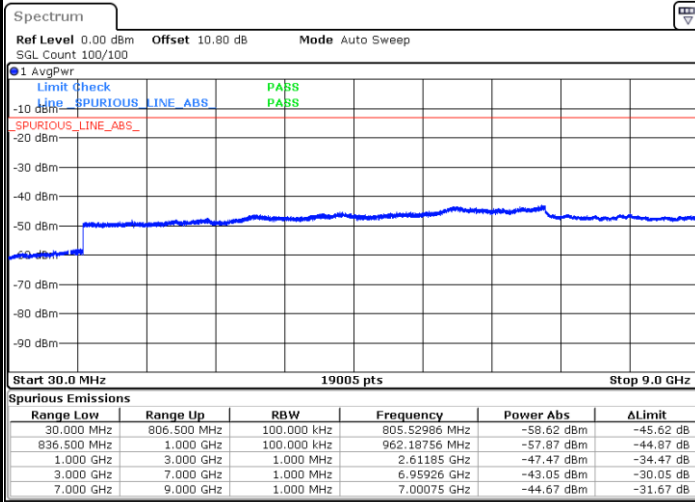
Date: 3.MAR.2020 16:50:17



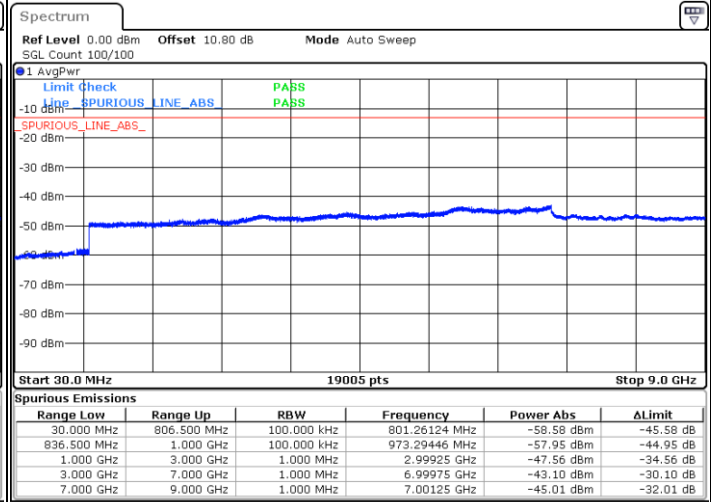
LTE Band 26 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

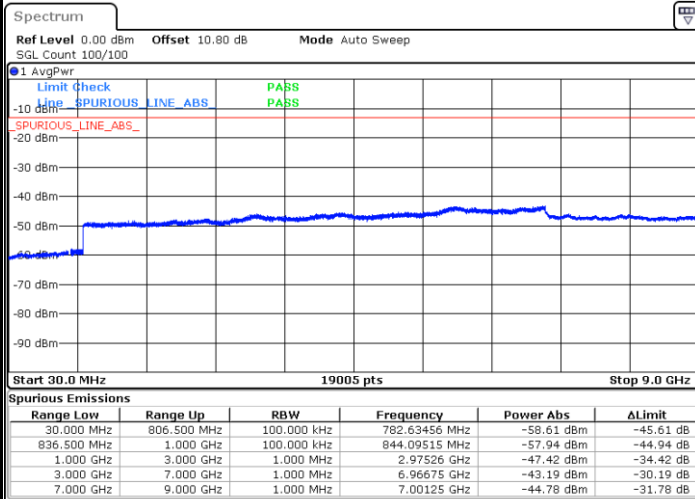


Date: 3.MAR.2020 17:24:47



Date: 3.MAR.2020 17:25:53

Highest Channel / 64QAM



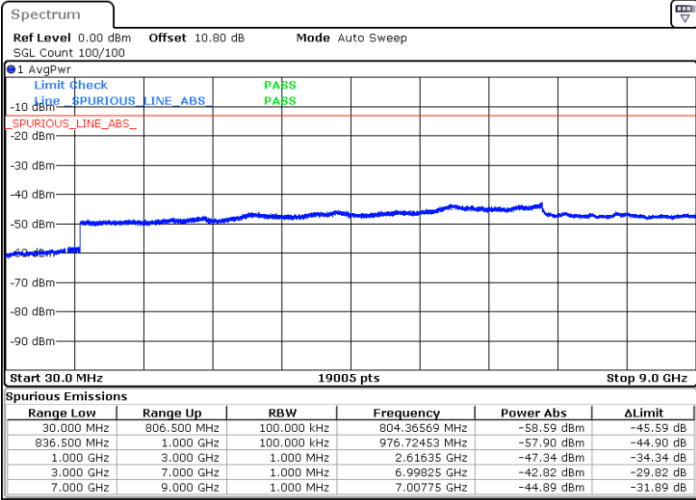
Date: 3.MAR.2020 17:26:59



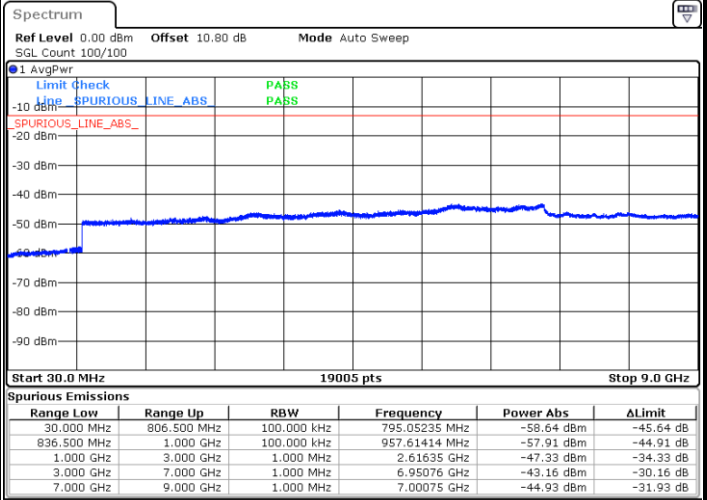
LTE Band 26 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

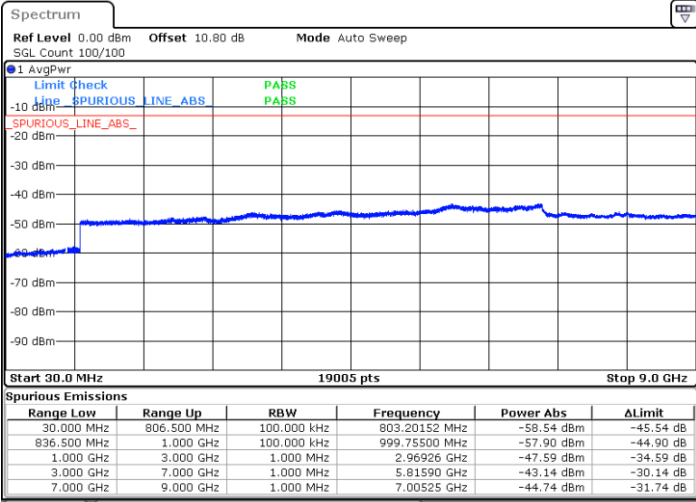


Date: 3.MAR.2020 17:28:04

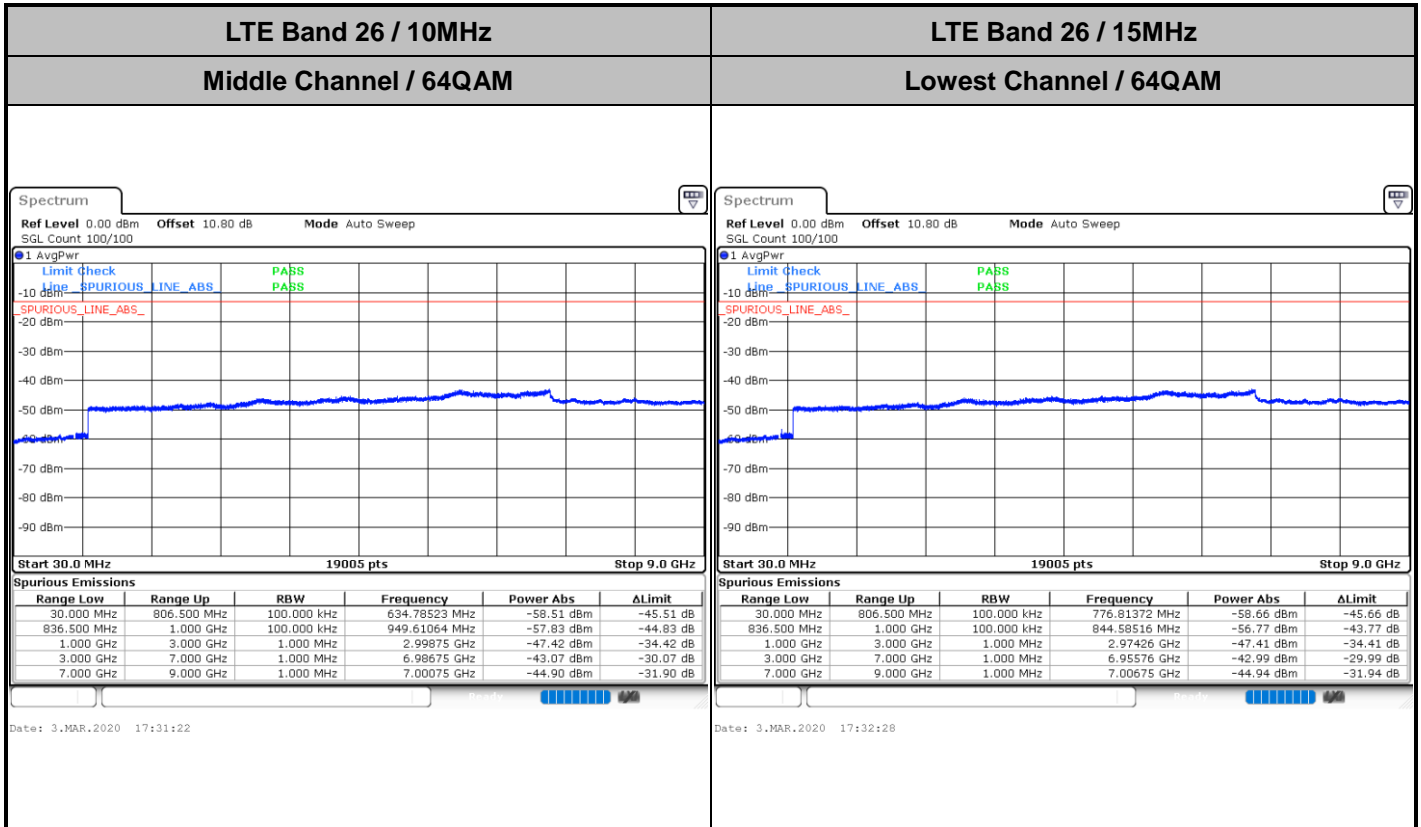


Date: 3.MAR.2020 17:29:10

Highest Channel / 64QAM



Date: 3.MAR.2020 17:30:16





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	0.0067	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0053	
0	Normal Voltage	0.0051	
-10	Normal Voltage	0.0068	
-20	Normal Voltage	0.0067	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0015	

Note:

1. Normal Voltage =7.74 V. ; Battery End Point (BEP) =7.20 V. ; Maximum Voltage =8.90 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	0.0000	PASS
40	Normal Voltage	0.0029	
30	Normal Voltage	0.0100	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0074	
-10	Normal Voltage	0.0097	
-20	Normal Voltage	0.0084	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0095	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0075	

Note:

1. Normal Voltage =7.74 V. ; Battery End Point (BEP) =7.20 V. ; Maximum Voltage =8.90 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of ERP and Radiated Test

ERP

<Upper Antenna>

<Reporting Only>

LTE Band 26 / 15MHz (Channel 26765) (GT - LC = -4.9 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	74	23.23	0.21	16.18	0.04
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	16QAM	1	74	22.51	0.18	15.46	0.04
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	64QAM	1	74	21.46	0.14	14.41	0.03
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-



<Lower Antenna>

LTE Band 26 / 15MHz (Channel 26765) (GT - LC = -2.3 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	74	23.29	0.21	18.84	0.08
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	16QAM	1	74	22.57	0.18	18.12	0.06
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	64QAM	1	74	21.49	0.14	17.04	0.05
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-



Radiated Spurious Emission

<For Upper Antenna>

LTE Band 26

LTE Band 26/ 5MHz / 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	1637.32	-61.95	-13	-48.95	-72.36	-68.88	0.52	9.60	H
	2455.98	-54.45	-13	-41.45	-68.45	-62.42	0.65	10.76	H
	3274.64	-57.42	-13	-44.42	-74.06	-66.44	0.75	11.92	H
									H
									H
									H
	1637.32	-62.00	-13	-49.00	-71.66	-68.93	0.52	9.60	V
	2455.98	-56.77	-13	-43.77	-71.32	-64.74	0.65	10.76	V
	3274.64	-57.22	-13	-44.22	-73.91	-66.24	0.75	11.92	V
									V
Middle	1642.32	-61.87	-13	-48.87	-72.41	-68.81	0.52	9.61	H
	2463.48	-58.03	-13	-45.03	-72.03	-66	0.65	10.77	H
	3284.64	-57.51	-13	-44.51	-74.15	-66.56	0.75	11.95	H
									H
									H
									H
	1642.32	-62.12	-13	-49.12	-72.37	-69.06	0.52	9.61	V
	2463.48	-56.44	-13	-43.44	-70.99	-64.41	0.65	10.77	V
	3284.64	-57.57	-13	-44.57	-74.26	-66.62	0.75	11.95	V
									V
Highest	1647.32	-62.13	-13	-49.13	-72.67	-69.08	0.53	9.62	H
	2470.98	-55.96	-13	-42.96	-69.91	-63.94	0.65	10.78	H
	3294.64	-57.52	-13	-44.52	-74.21	-66.6	0.76	11.98	H
									H
									H
									H
	1647.32	-62.26	-13	-49.26	-72.51	-69.21	0.53	9.62	V
	2470.98	-55.43	-13	-42.43	-69.87	-63.41	0.65	10.78	V
	3294.64	-57.18	-13	-44.18	-73.84	-66.26	0.76	11.98	V
									V

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



LTE Band 26

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	1656.32	-61.33	-13	-48.33	-72.01	-68.3	0.53	9.64	H
	2484.48	-58.47	-13	-45.47	-72.4	-66.46	0.65	10.79	H
	3312.64	-57.73	-13	-44.73	-74.45	-66.86	0.76	12.04	H
									H
									H
									H
									H
	1656.32	-60.11	-13	-47.11	-70.39	-67.08	0.53	9.64	V
	2484.48	-57.15	-13	-44.15	-71.5	-65.14	0.65	10.79	V
	3312.64	-57.53	-13	-44.53	-74.14	-66.66	0.76	12.04	V
									V
									V
									V
									V

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



<For Lower Antenna>

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	1637.32	-61.70	-13	-48.70	-72.11	-68.63	0.52	9.60	H
	2455.98	-58.62	-13	-45.62	-72.62	-66.59	0.65	10.76	H
	3274.64	-57.59	-13	-44.59	-74.23	-66.61	0.75	11.92	H
									H
									H
									H
	1637.32	-61.62	-13	-48.62	-71.85	-68.55	0.52	9.60	V
	2455.98	-56.06	-13	-43.06	-70.61	-64.03	0.65	10.76	V
	3274.64	-57.43	-13	-44.43	-74.12	-66.45	0.75	11.92	V
									V
Middle	1642.32	-62.03	-13	-49.03	-72.57	-68.97	0.52	9.61	H
	2463.48	-58.70	-13	-45.70	-72.7	-66.67	0.65	10.77	H
	3284.64	-57.70	-13	-44.70	-74.34	-66.75	0.75	11.95	H
									H
									H
									H
	1642.32	-61.93	-13	-48.93	-72.18	-68.87	0.52	9.61	V
	2463.48	-56.16	-13	-43.16	-70.71	-64.13	0.65	10.77	V
	3284.64	-57.24	-13	-44.24	-73.93	-66.29	0.75	11.95	V
									V
Highest	1647.32	-60.60	-13	-47.60	-71.14	-67.55	1647.32	-60.60	H
	2470.98	-57.92	-13	-44.92	-71.87	-65.9	2470.98	-57.92	H
	3294.64	-57.68	-13	-44.68	-74.37	-66.76	3294.64	-57.68	H
									H
									H
									H
	1647.32	-59.81	-13	-46.81	-70.06	-66.76	0.53	9.62	V
	2470.98	-57.28	-13	-44.28	-71.72	-65.26	0.65	10.78	V
	3294.64	-57.68	-13	-44.68	-74.34	-66.76	0.76	11.98	V
									V
								V	

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



LTE Band 26

LTE Band 26 / 15MHz / 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	1656.32	-60.19	-13	-47.19	-70.87	-67.16	0.53	9.64	H
	2484.48	-59.11	-13	-46.11	-73.04	-67.1	0.65	10.79	H
	3312.64	-57.54	-13	-44.54	-74.26	-66.67	0.76	12.04	H
									H
									H
									H
									H
	1656.32	-59.03	-13	-46.03	-69.31	-66	0.53	9.64	V
	2484.48	-59.00	-13	-46.00	-73.35	-66.99	0.65	10.79	V
	3312.64	-57.45	-13	-44.45	-74.06	-66.58	0.76	12.04	V
									V
									V
									V
									V

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