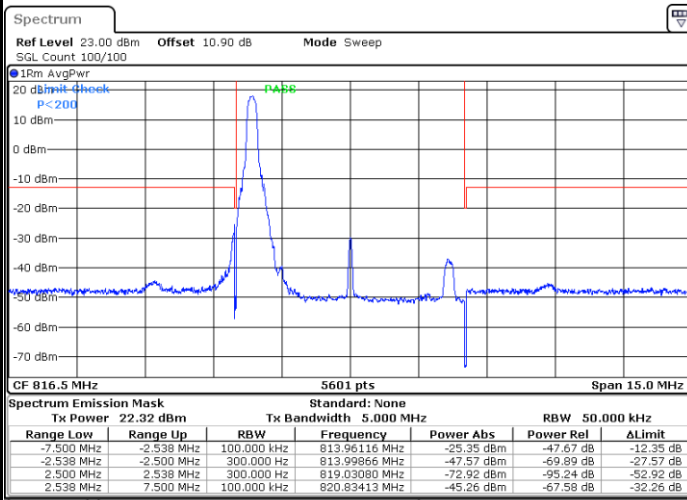




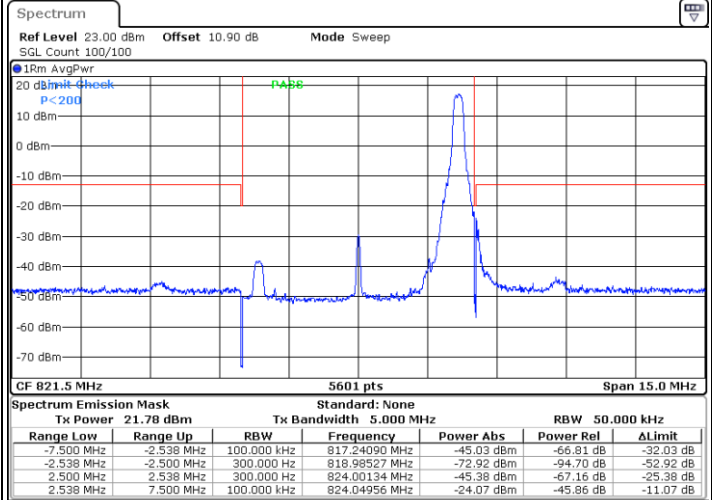
LTE Band 26 / 5MHz / 64QAM

Lowest Band Edge / 1RB



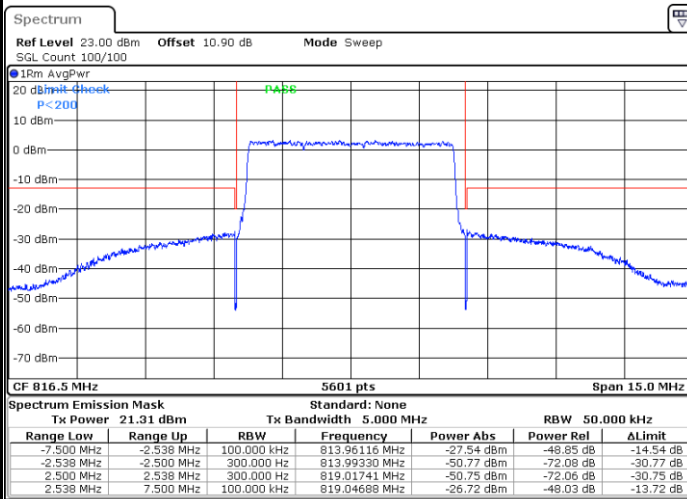
Date: 21.APR.2020 04:13:19

Highest Band Edge / 1 RB



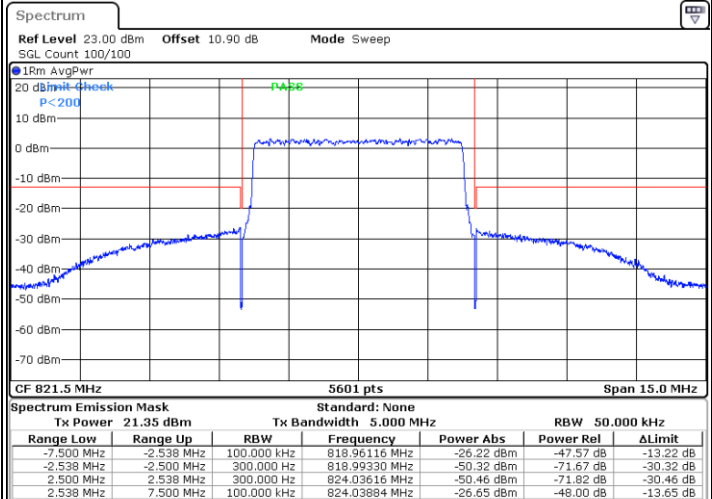
Date: 21.APR.2020 04:14:21

Lowest Band Edge / Full RB



Date: 21.APR.2020 04:13:50

Highest Band Edge / Full RB



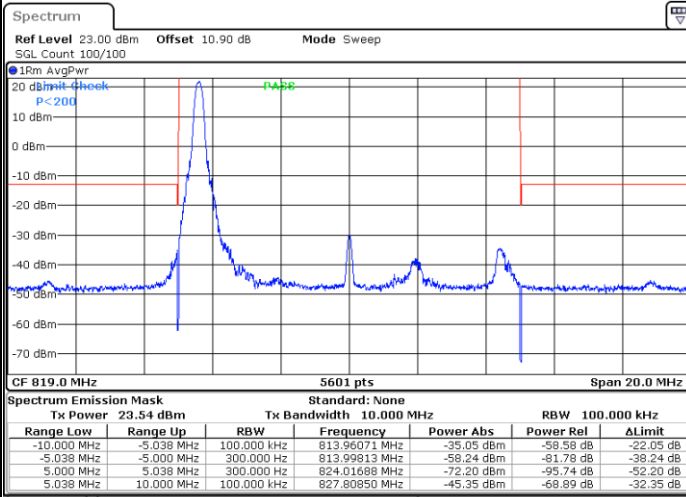
Date: 21.APR.2020 04:14:52



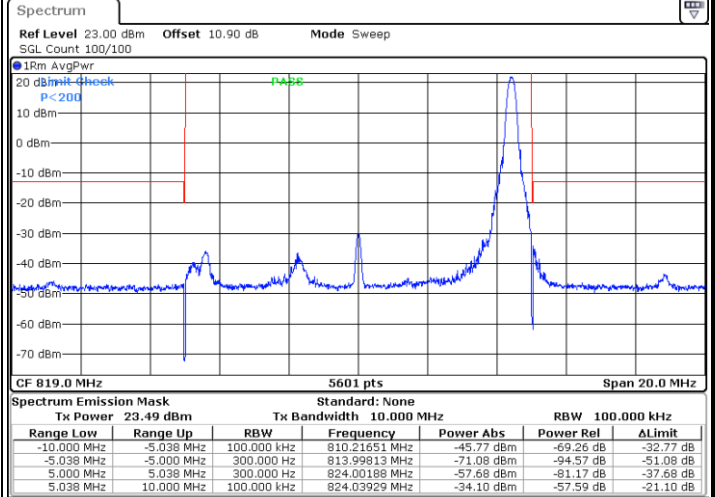
LTE Band 26 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

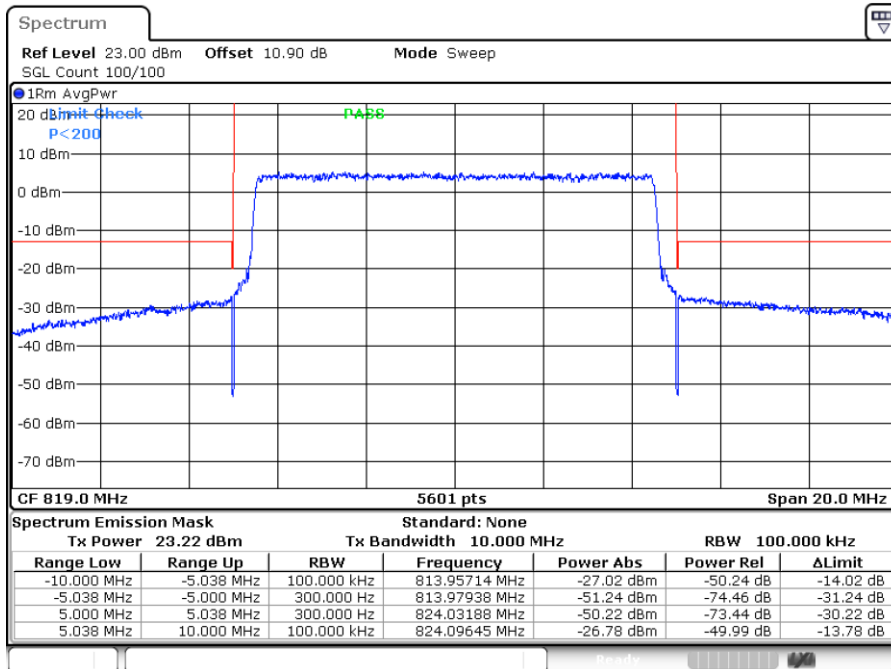


Date: 21.APR.2020 04:04:59



Date: 21.APR.2020 04:06:00

Band Edge / Full RB

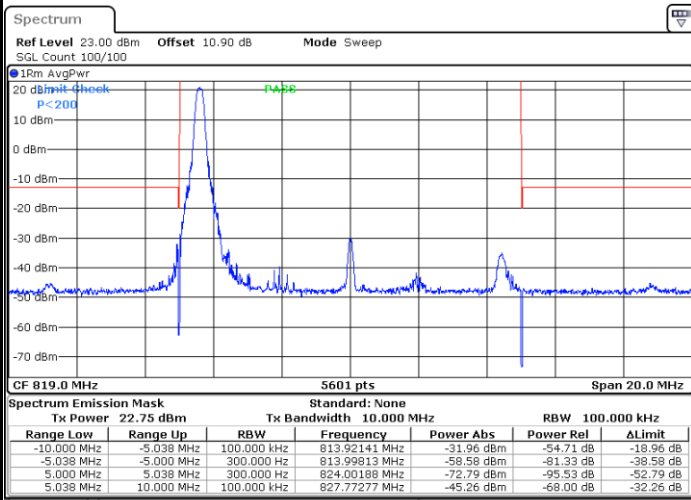


Date: 21.APR.2020 04:07:02



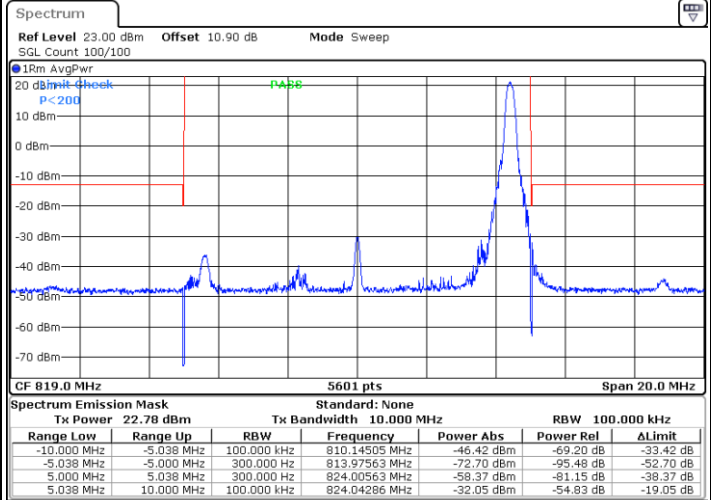
LTE Band 26 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



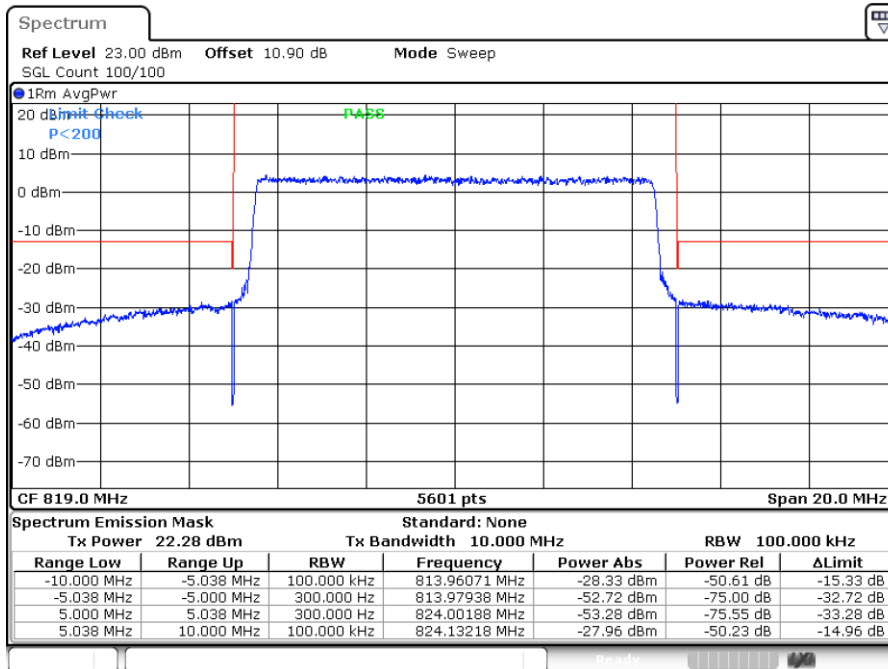
Date: 21.APR.2020 04:05:30

Highest Band Edge / 1 RB



Date: 21.APR.2020 04:06:31

Band Edge / Full RB

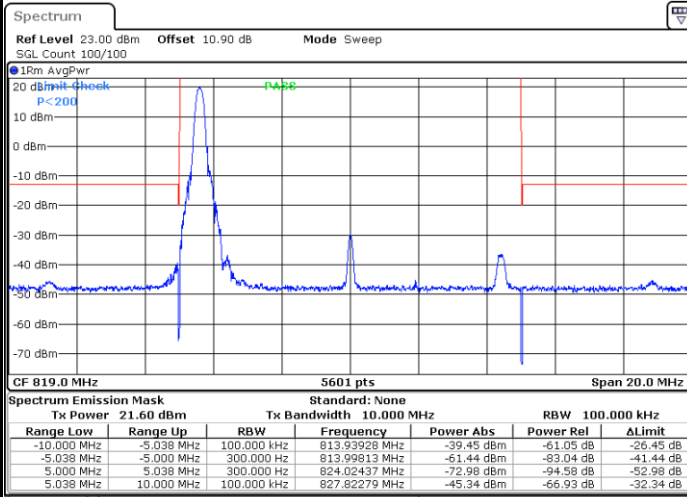


Date: 21.APR.2020 04:07:33



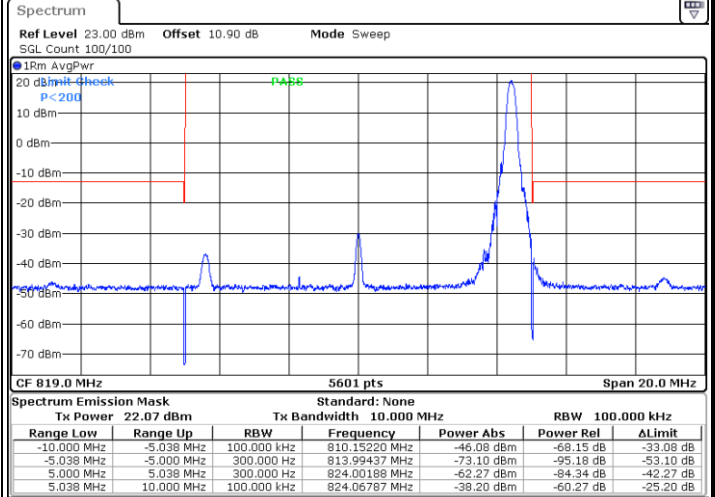
LTE Band 26 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



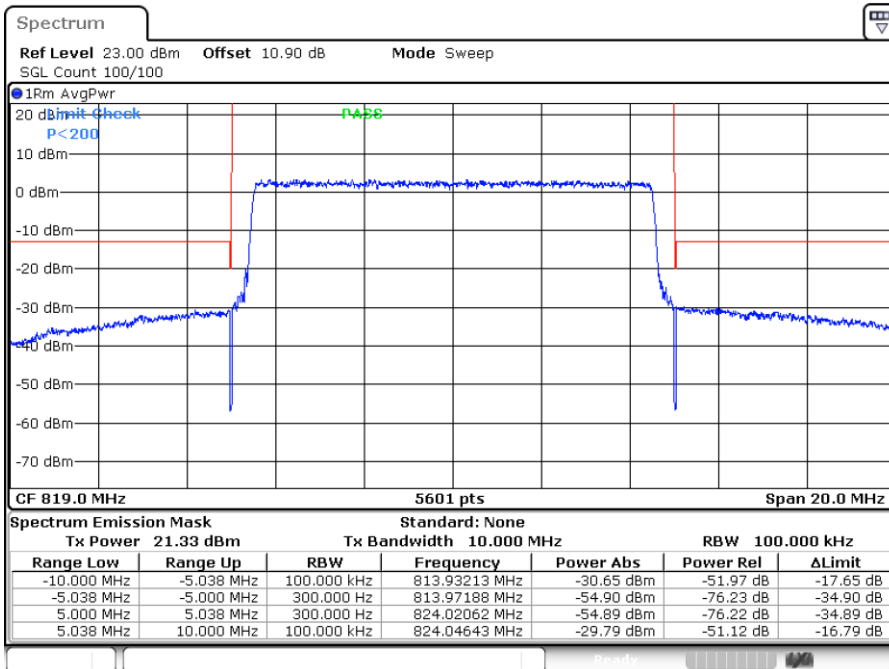
Date: 21.APR.2020 04:15:23

Highest Band Edge / 1 RB



Date: 21.APR.2020 04:15:54

Band Edge / Full RB

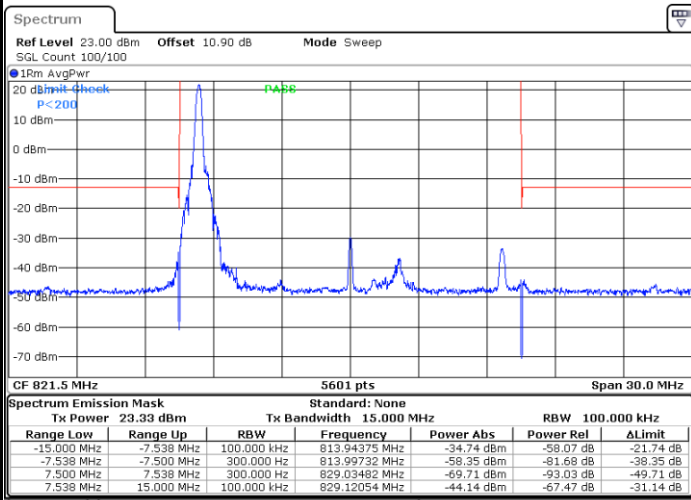


Date: 21.APR.2020 04:16:24



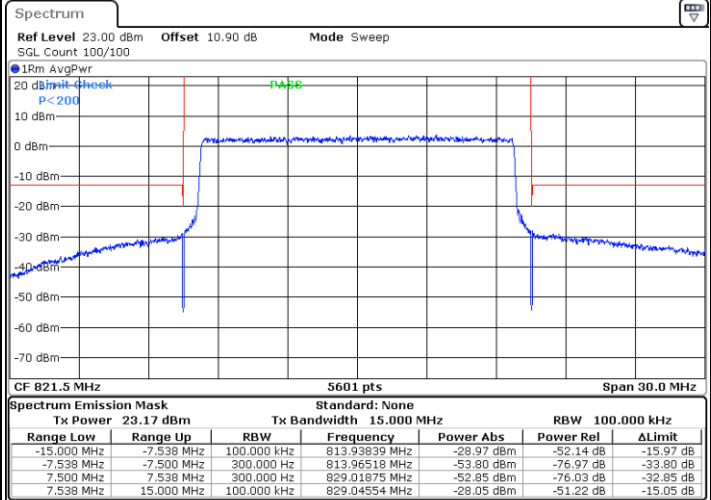
LTE Band 26 / 15MHz QPSK

Lowest Band Edge / 1 RB



Date: 21.APR.2020 04:08:04

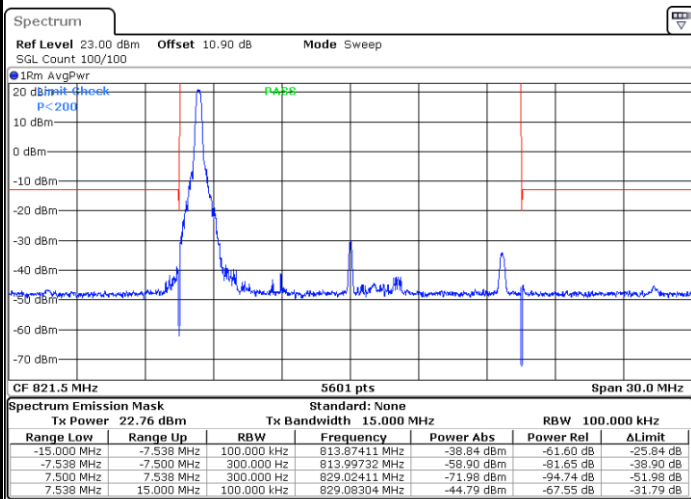
Lowest Band Edge / Full RB



Date: 21.APR.2020 04:10:08

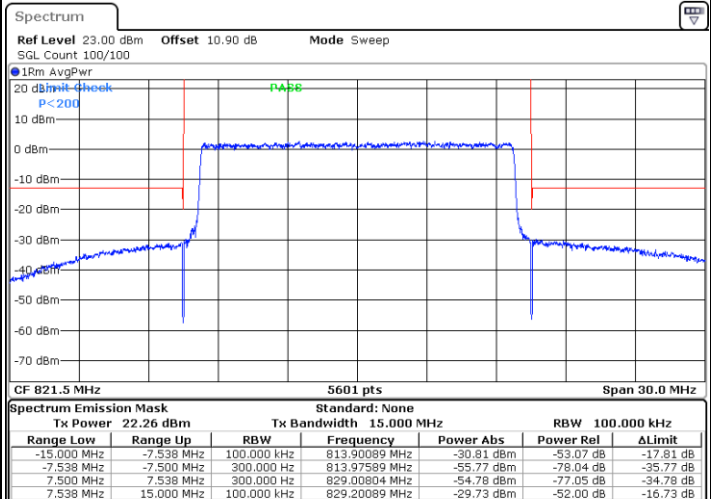
LTE Band 26 / 15MHz 16QAM

Lowest Band Edge / 1 RB



Date: 21.APR.2020 04:08:35

Lowest Band Edge / Full RB



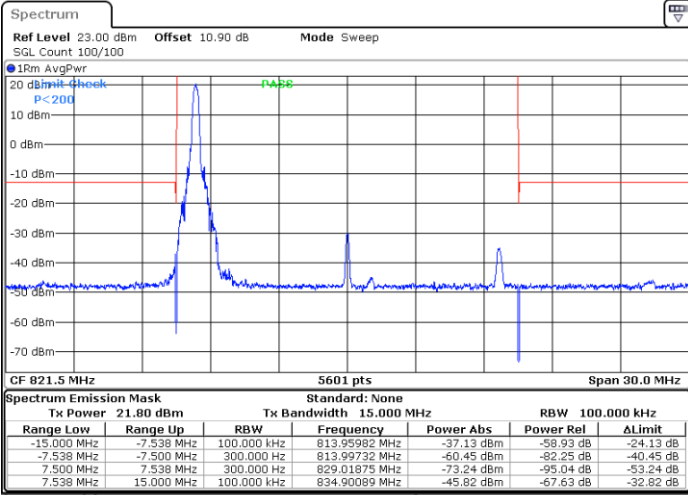
Date: 21.APR.2020 04:10:38



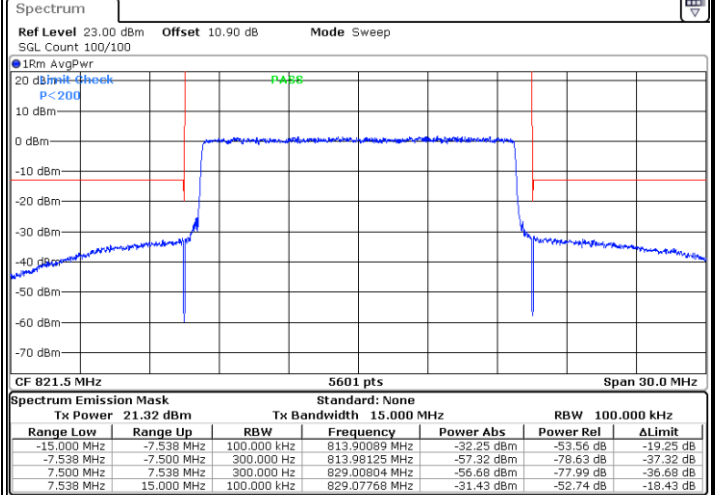
LTE Band 26 / 15MHz / 64QAM

Lowest Band Edge / 1 RB

Lowest Band Edge / Full RB



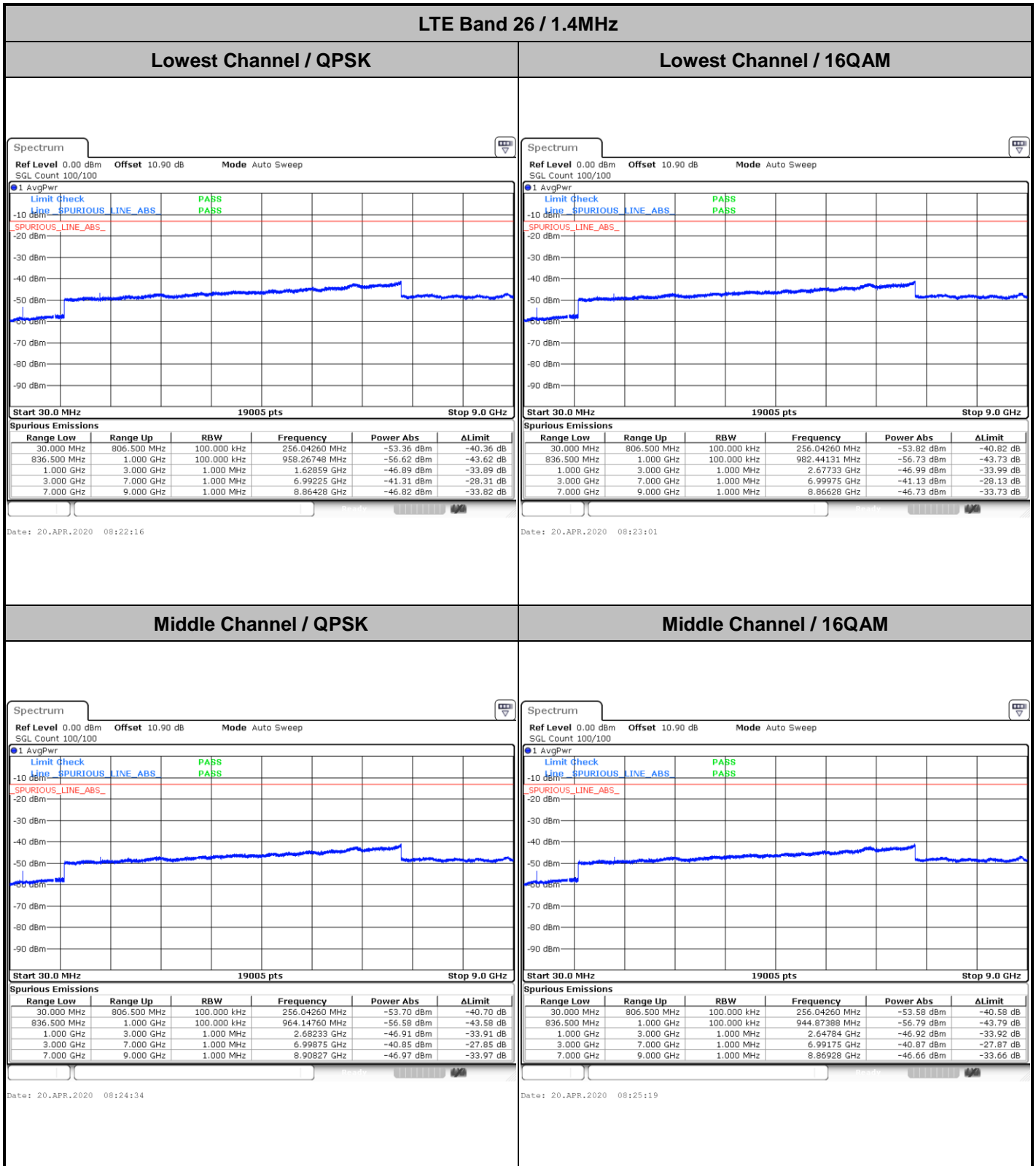
Date: 21.APR.2020 04:16:56



Date: 21.APR.2020 04:17:57



Emission masks – Out of band emissions

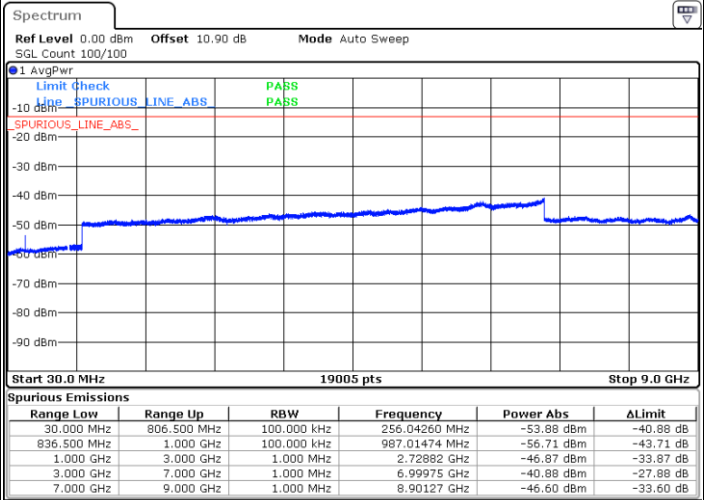
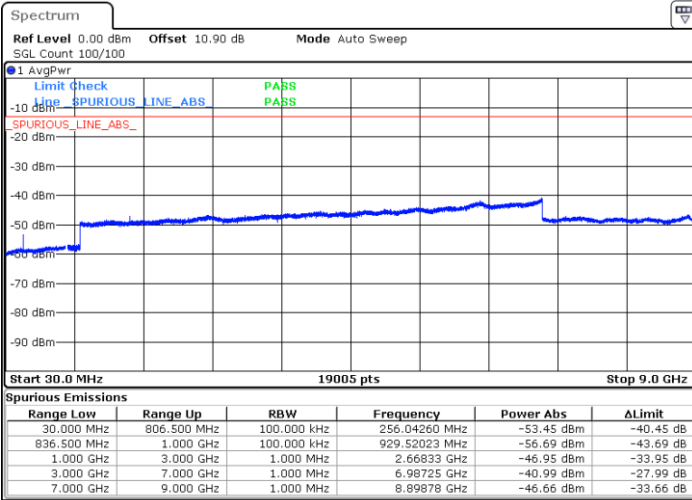




LTE Band 26 / 1.4MHz

Highest Channel / QPSK

Highest Channel / 16QAM



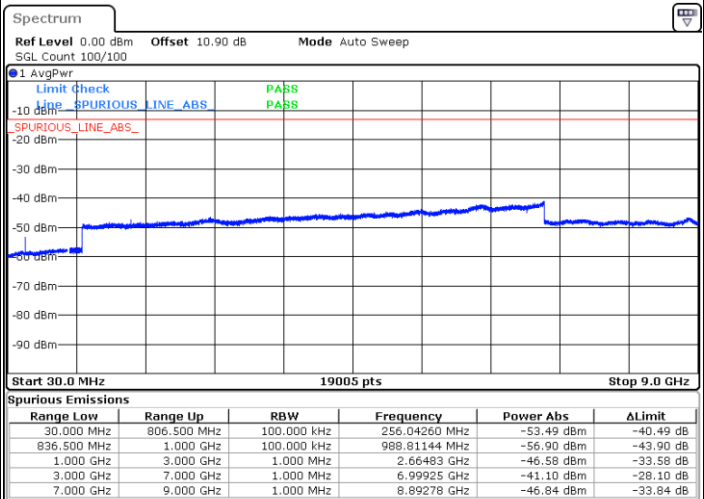
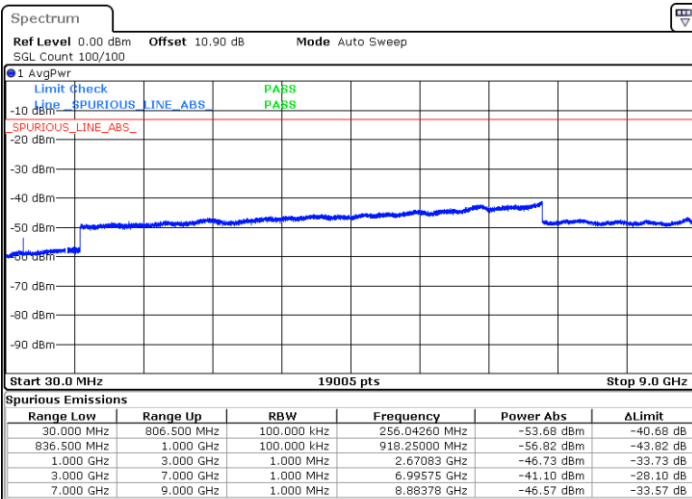
Date: 20.APR.2020 08:26:53

Date: 20.APR.2020 08:27:38

LTE Band 26 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 21.APR.2020 04:30:10

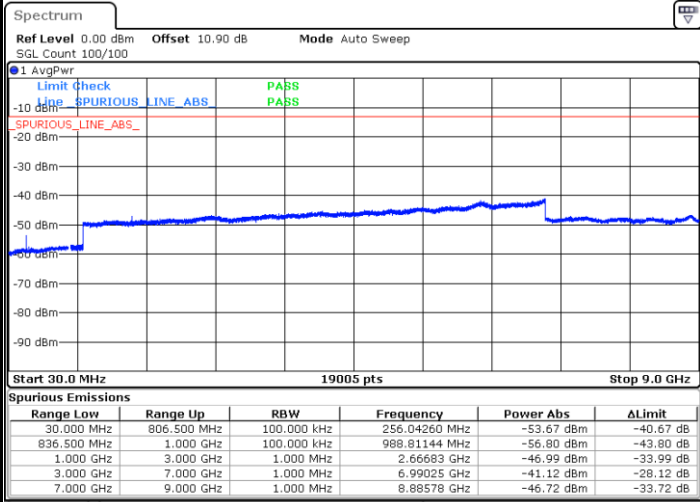
Date: 21.APR.2020 04:30:53



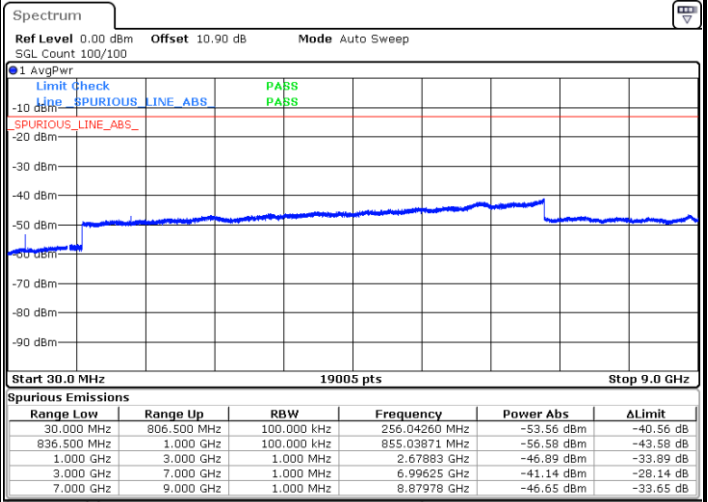
LTE Band 26 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM



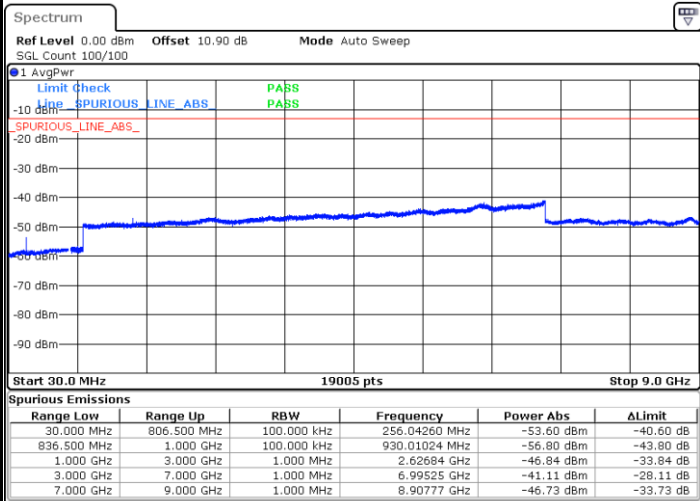
Date: 21.APR.2020 04:32:26



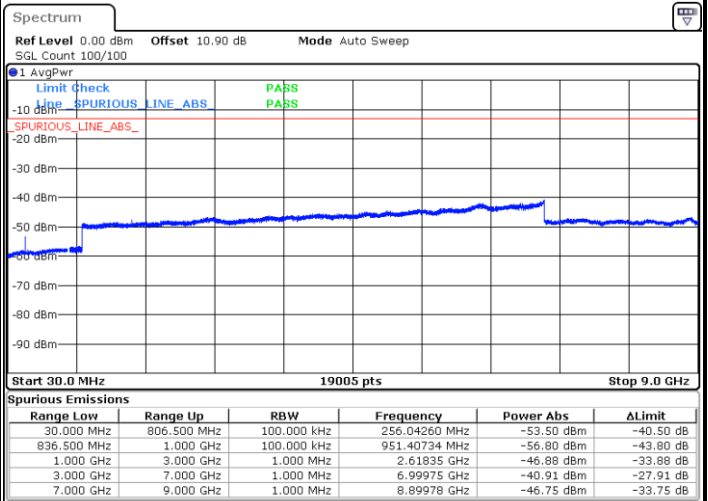
Date: 21.APR.2020 04:33:10

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 21.APR.2020 04:34:43



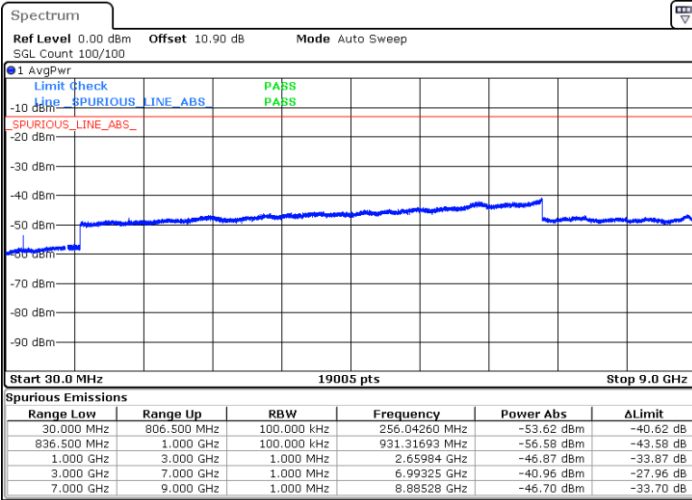
Date: 21.APR.2020 04:35:27



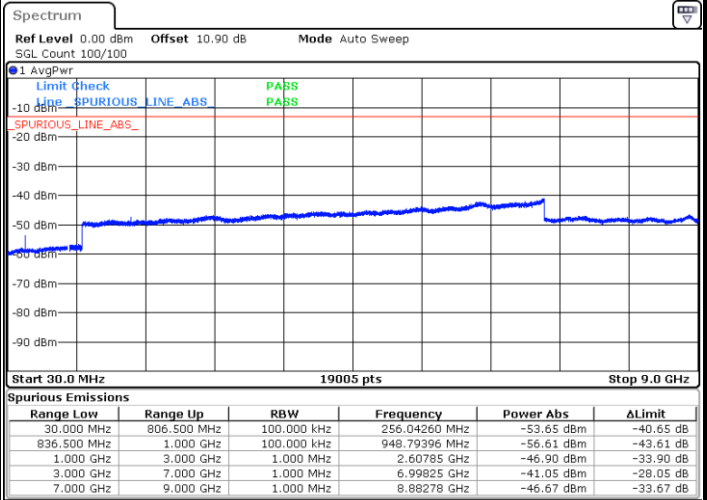
LTE Band 26 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



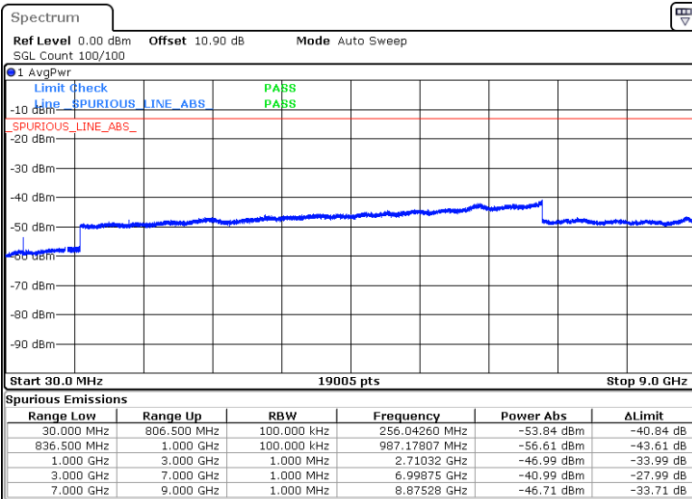
Date: 21.APR.2020 04:37:00



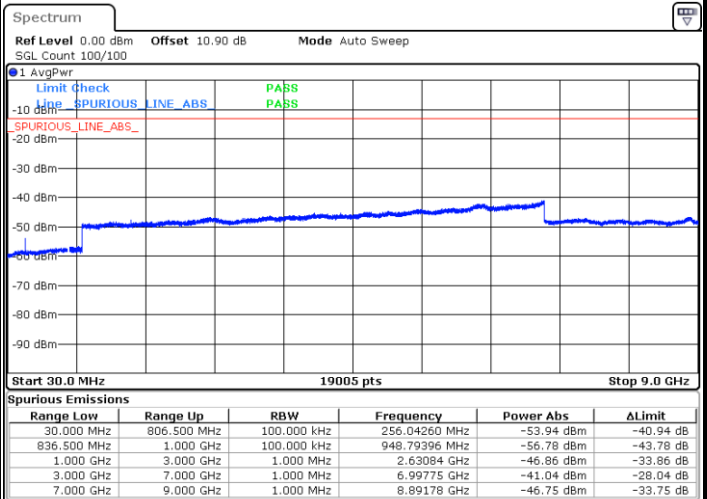
Date: 21.APR.2020 04:37:44

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 21.APR.2020 04:39:17



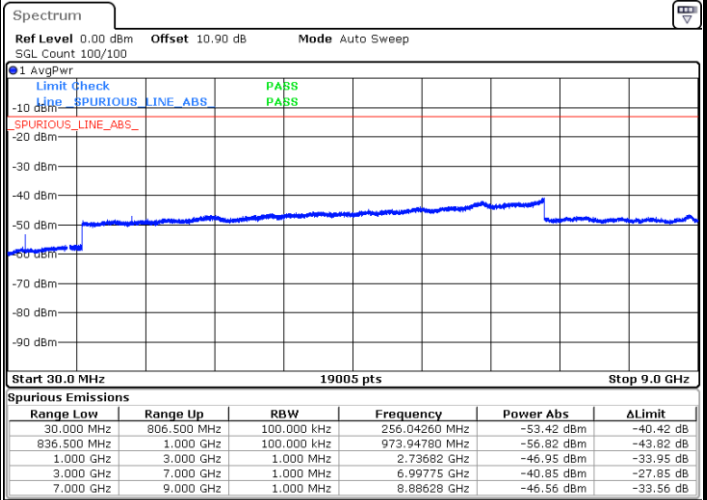
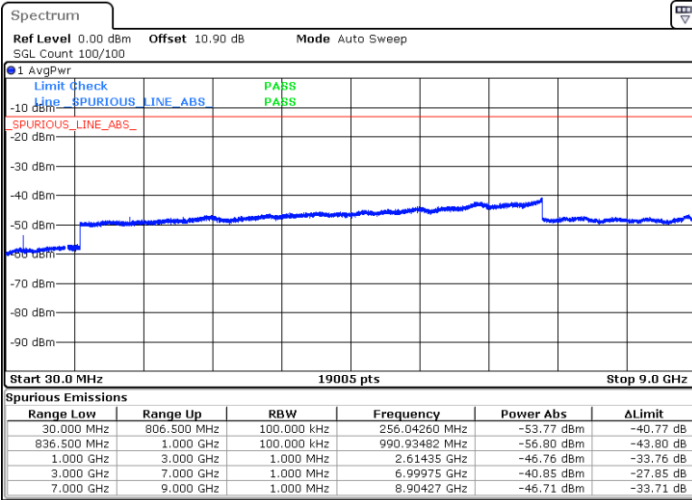
Date: 21.APR.2020 04:40:01



LTE Band 26 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



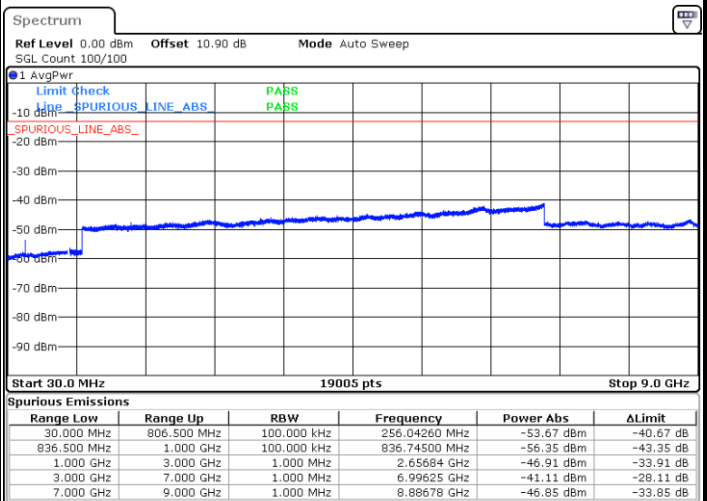
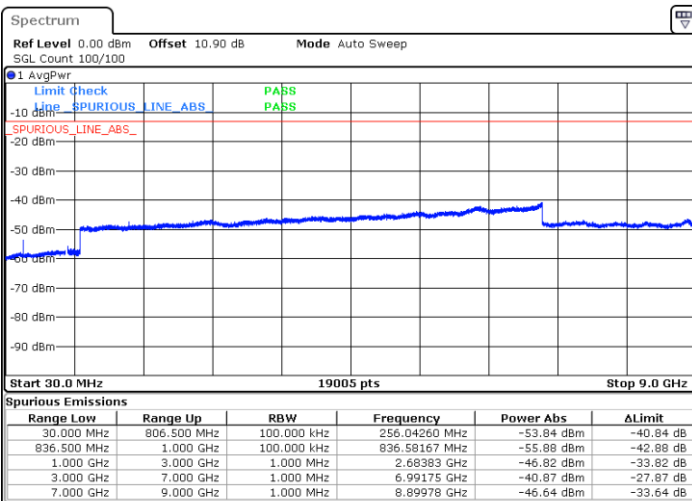
Date: 21.APR.2020 04:41:33

Date: 21.APR.2020 04:42:17

LTE Band 26 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 21.APR.2020 04:43:50

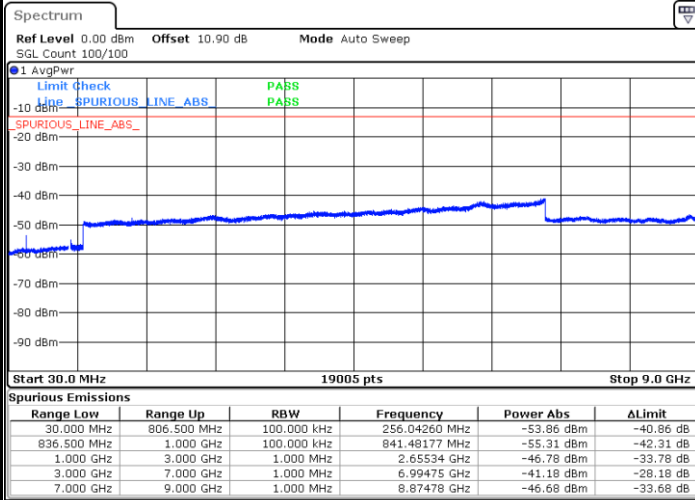
Date: 21.APR.2020 04:44:35



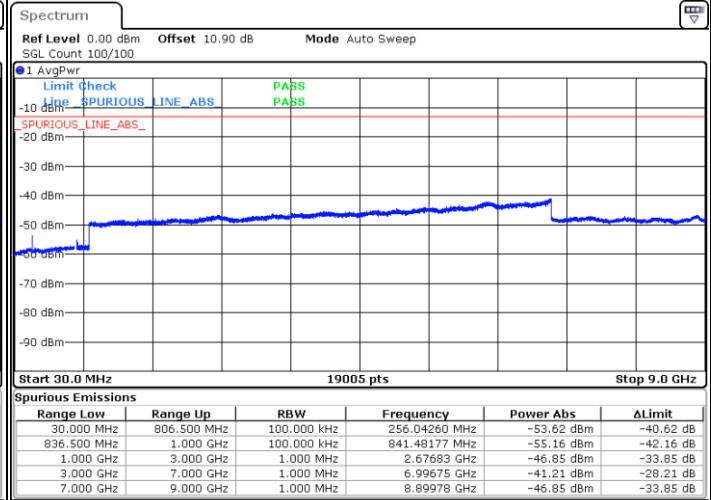
LTE Band 26 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 21.APR.2020 04:46:08



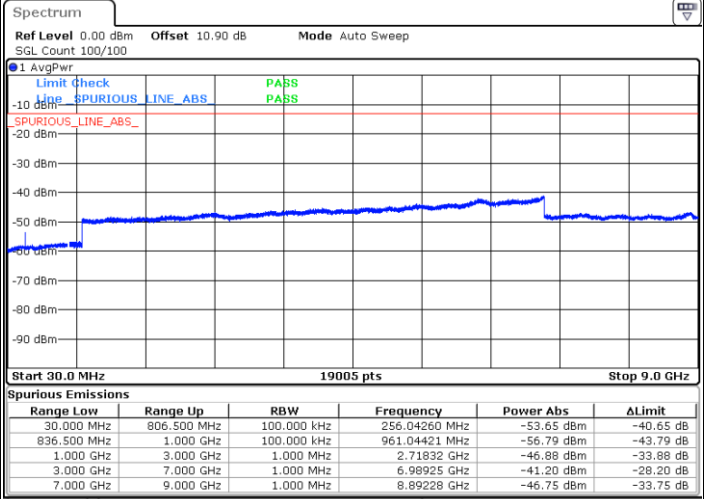
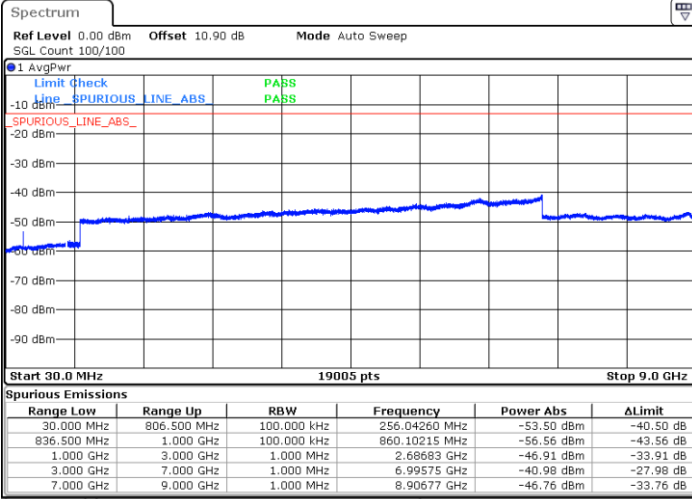
Date: 21.APR.2020 04:46:52



LTE Band 26 / 1.4MHz

Lowest Channel / 64QAM

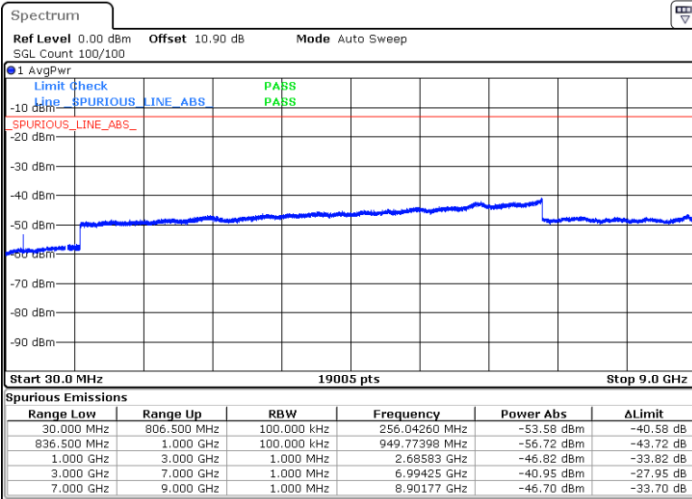
Middle Channel / 64QAM



Date: 20.APR.2020 08:18:24

Date: 20.APR.2020 08:19:34

Highest Channel / 64QAM



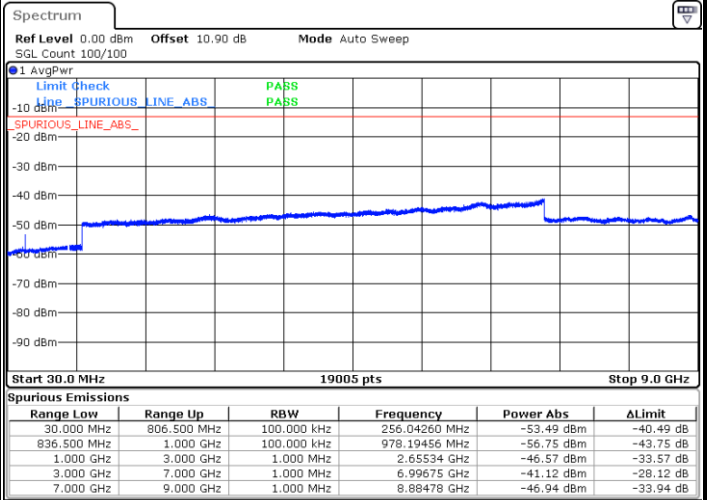
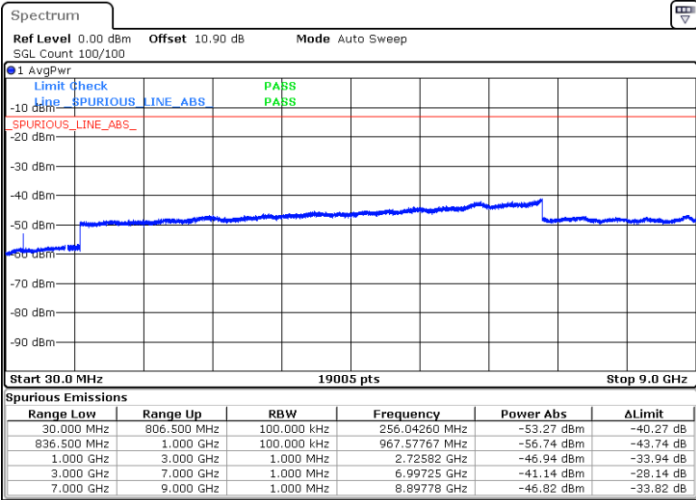
Date: 20.APR.2020 08:20:42



LTE Band 26 / 3MHz

Lowest Channel / 64QAM

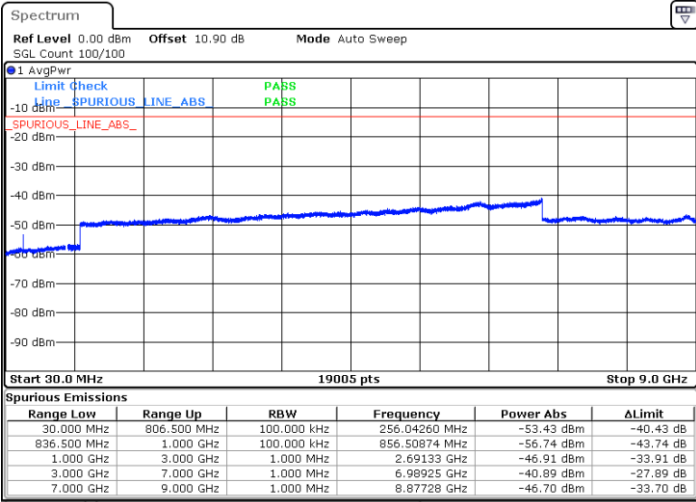
Middle Channel / 64QAM



Date: 21.APR.2020 04:19:07

Date: 21.APR.2020 04:20:16

Highest Channel / 64QAM



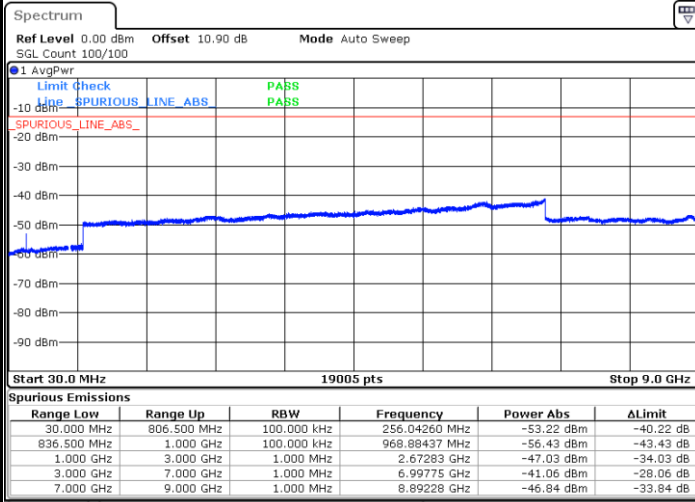
Date: 21.APR.2020 04:21:24



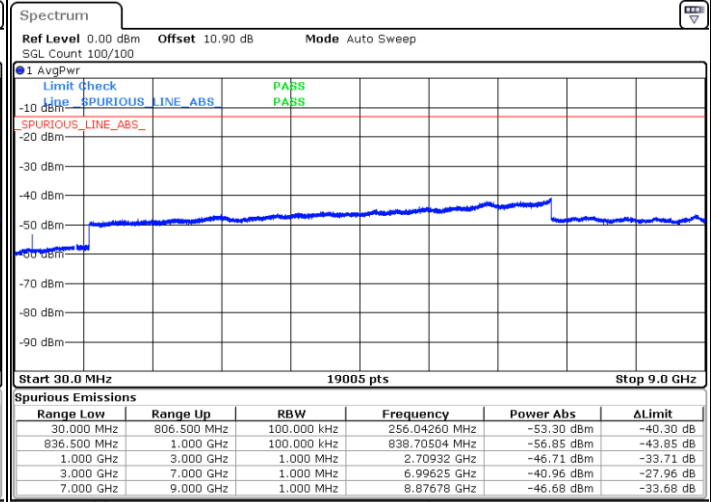
LTE Band 26 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

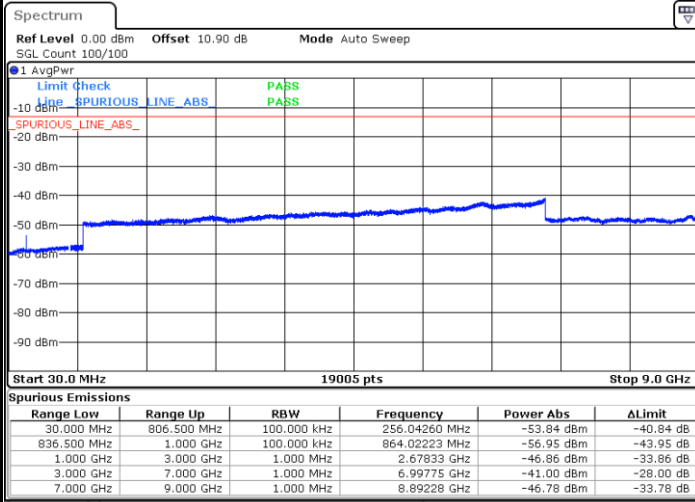


Date: 21.APR.2020 04:22:34

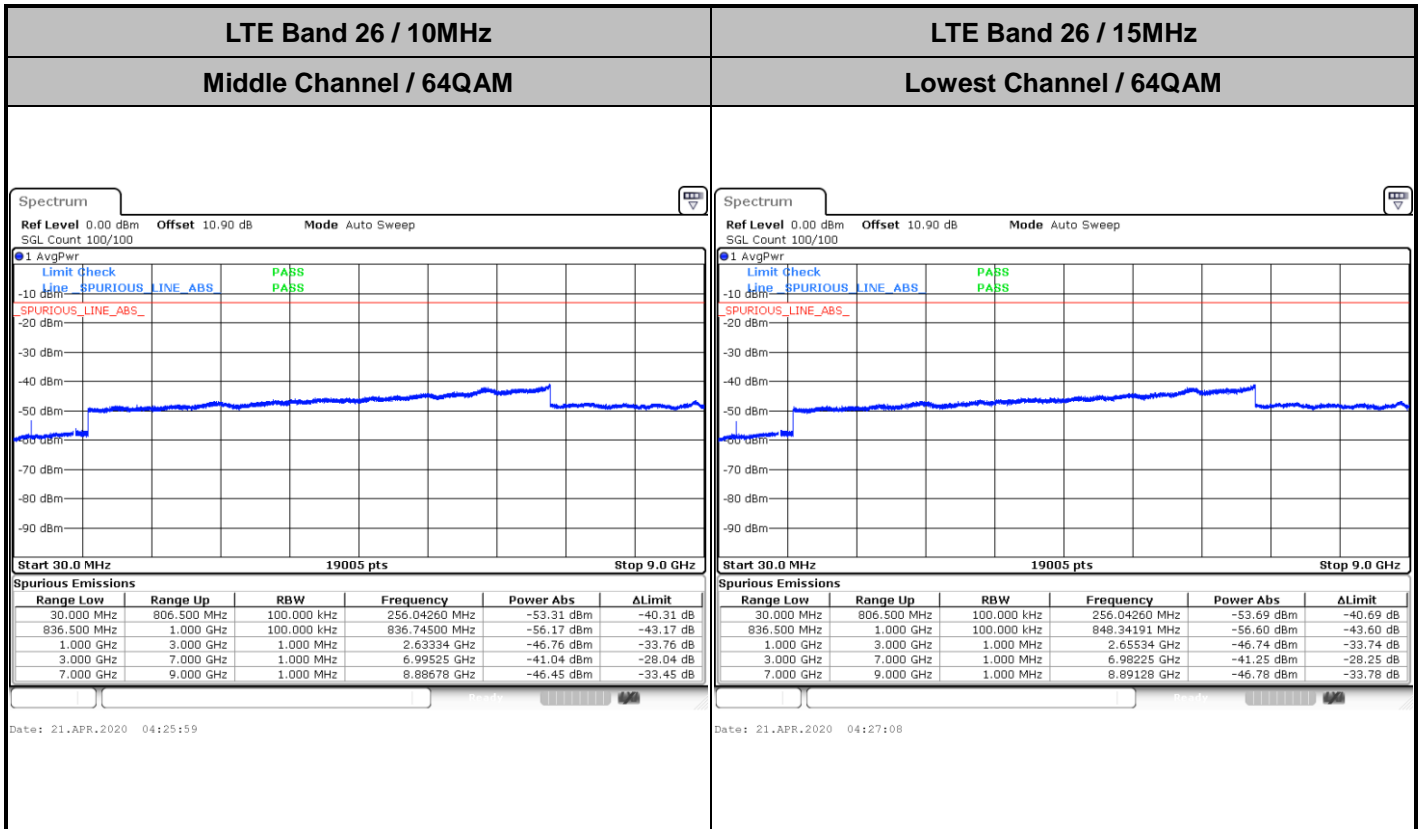


Date: 21.APR.2020 04:23:42

Highest Channel / 64QAM



Date: 21.APR.2020 04:24:50





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	0.0000	PASS
40	Normal Voltage	0.0020	
30	Normal Voltage	0.0079	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0171	
0	Normal Voltage	0.0190	
-10	Normal Voltage	0.0034	
-20	Normal Voltage	0.0203	
-30	Normal Voltage	0.0085	
20	Maximum Voltage	0.0128	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0046	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. Note: 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	0.0159	
30	Normal Voltage	0.0207	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0196	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0189	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0061	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of ERP and Radiated Test

ERP

<Reporting Only>

LTE Band 26 / 15MHz (Channel 26765) (GT - LC = 1.4 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	24.19	0.2624	23.44	0.2208
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	16QAM	1	74	23.53	0.2254	22.78	0.1897
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	64QAM	1	74	22.44	0.1754	21.69	0.1476
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Limit	ERP < 100W			Result		PASS	



Radiated Spurious Emission

<EUT with Battery 1>

Part 90S LTE Band 26

LTE Band 26 / 3MHz / 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	1632	-49.22	-13	-36.22	-59.63	-56.14	0.52	9.59	H
	2440	-54.76	-13	-41.76	-68.79	-62.72	0.64	10.75	H
	3256	-47.16	-13	-34.16	-63.77	-56.13	0.75	11.87	H
	1632	-50.97	-13	-37.97	-61.20	-57.89	0.52	9.59	V
	2440	-53.01	-13	-40.01	-67.65	-60.97	0.64	10.75	V
	3256	-51.93	-13	-38.93	-68.66	-60.90	0.75	11.87	V
Middle	1632	-48.25	-13	-35.25	-58.66	-55.17	0.52	9.59	H
	2456	-57.58	-13	-44.58	-71.58	-65.55	0.65	10.76	H
	3272	-49.10	-13	-36.10	-65.71	-58.11	0.75	11.92	H
	1632	-48.71	-13	-35.71	-58.94	-55.63	0.52	9.59	V
	2456	-56.64	-13	-43.64	-71.19	-64.61	0.65	10.76	V
	3272	-54.39	-13	-41.39	-71.12	-63.4	0.75	11.92	V
Highest	1640	-48.28	-13	-35.28	-58.83	-55.21	0.52	9.61	H
	2464	-55.82	-13	-42.82	-69.82	-63.79	0.65	10.77	H
	3288	-47.73	-13	-34.73	-64.37	-56.79	0.76	11.96	H
	1640	-50.91	-13	-37.91	-61.17	-57.84	0.52	9.61	V
	2464	-55.36	-13	-42.36	-69.91	-63.33	0.65	10.77	V
	3288	-52.96	-13	-39.96	-69.65	-62.02	0.76	11.96	V

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



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	1630	-47.86	-13	-34.86	-58.3	-54.77	0.52	9.59	H
	2445	-55.62	-13	-42.62	-69.61	-63.58	0.64	10.76	H
	3260	-48.74	-13	-35.74	-65.35	-57.72	0.75	11.88	H
	1630	-51.07	-13	-38.07	-61.3	-57.98	0.52	9.59	V
	2445	-54.84	-13	-41.84	-69.48	-62.8	0.64	10.76	V
	3260	-53.96	-13	-40.96	-70.69	-62.94	0.75	11.88	V

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



<EUT with Battery 2>

Part 90S LTE Band 26

LTE Band 14 / 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	1632	-58.26	-13	-45.26	-68.68	-65.18	0.52	9.59	H
	2440	-57.03	-13	-44.03	-71.06	-64.99	0.64	10.75	H
	3256	-53.30	-13	-40.30	-69.9	-62.27	0.75	11.87	H
	1632	-61.80	-13	-48.80	-72.04	-68.72	0.52	9.59	V
	2440	-54.23	-13	-41.23	-68.87	-62.19	0.64	10.75	V
	3256	-47.49	-13	-34.49	-64.21	-56.46	0.75	11.87	V
Middle	1632	-56.88	-13	-43.88	-67.29	-63.8	0.52	9.59	H
	2456	-57.43	-13	-44.43	-71.43	-65.4	0.65	10.76	H
	3272	-56.05	-13	-43.05	-72.66	-65.06	0.75	11.92	H
	1632	-62.91	-13	-49.91	-73.14	-69.83	0.52	9.59	V
	2456	-53.56	-13	-40.56	-68.11	-61.53	0.65	10.76	V
	3272	-50.49	-13	-37.49	-67.22	-59.5	0.75	11.92	V
Highest	1640	-58.43	-13	-45.43	-68.98	-65.36	0.52	9.61	H
	2464	-57.23	-13	-44.23	-71.23	-65.2	0.65	10.77	H
	3288	-53.35	-13	-40.35	-69.99	-62.41	0.76	11.96	H
	1640	-61.44	-13	-48.44	-71.7	-68.37	0.52	9.61	V
	2464	-55.95	-13	-42.95	-70.5	-63.92	0.65	10.77	V
	3288	-47.93	-13	-34.93	-64.62	-56.99	0.76	11.96	V

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



<EUT with Battery 3>

Part 90S LTE Band 26

LTE Band 14 / 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	1632	-57.20	-13	-44.20	-67.61	-64.12	0.52	9.59	H
	2440	-53.63	-13	-40.63	-67.66	-61.59	0.64	10.75	H
	3256	-47.04	-13	-34.04	-63.65	-56.01	0.75	11.87	H
	1632	-56.71	-13	-43.71	-66.94	-63.63	0.52	9.59	V
	2440	-54.87	-13	-41.87	-69.51	-62.83	0.64	10.75	V
	3256	-55.51	-13	-42.51	-72.24	-64.48	0.75	11.87	V
Middle	1632	-54.13	-13	-41.13	-64.54	-61.05	0.52	9.59	H
	2456	-55.27	-13	-42.27	-69.27	-63.24	0.65	10.76	H
	3272	-50.40	-13	-37.40	-67.01	-59.41	0.75	11.92	H
	1632	-56.64	-13	-43.64	-66.87	-63.56	0.52	9.59	V
	2456	-57.65	-13	-44.65	-72.2	-65.62	0.65	10.76	V
	3272	-56.83	-13	-43.83	-73.56	-65.84	0.75	11.92	V
Highest	1640	-53.79	-13	-40.79	-64.34	-60.72	0.52	9.61	H
	2464	-55.18	-13	-42.18	-69.18	-63.15	0.65	10.77	H
	3288	-49.03	-13	-36.03	-65.67	-58.09	0.76	11.96	H
	1640	-56.50	-13	-43.50	-66.76	-63.43	0.52	9.61	V
	2464	-56.94	-13	-43.94	-71.49	-64.91	0.65	10.77	V
	3288	-55.30	-13	-42.30	-71.99	-64.36	0.76	11.96	V

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