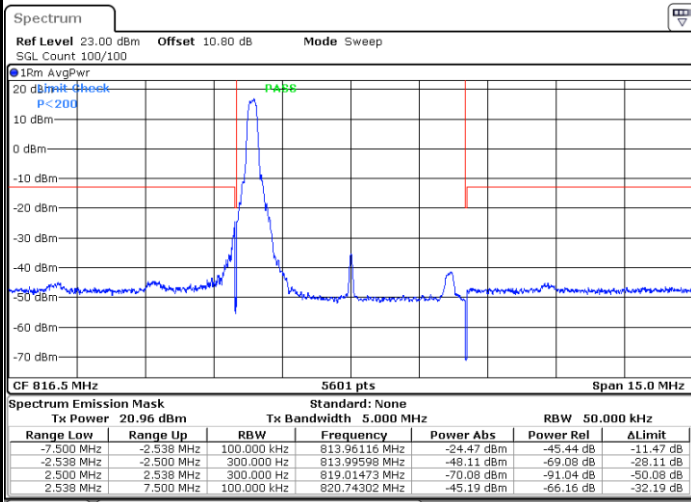




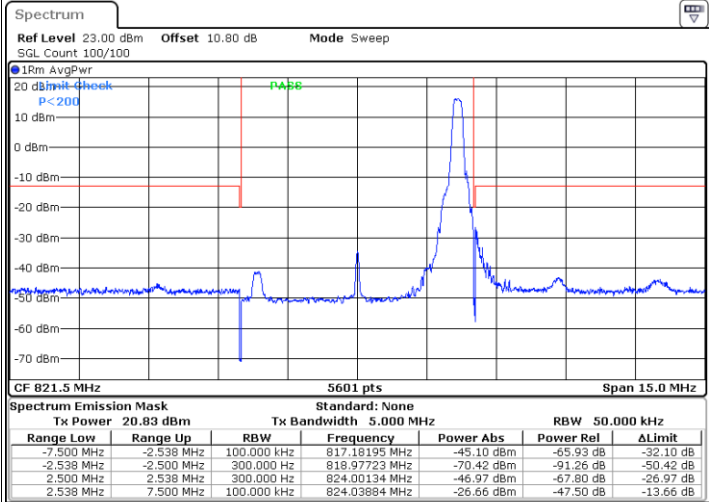
LTE Band 26 / 5MHz / 64QAM

Lowest Band Edge / 1RB



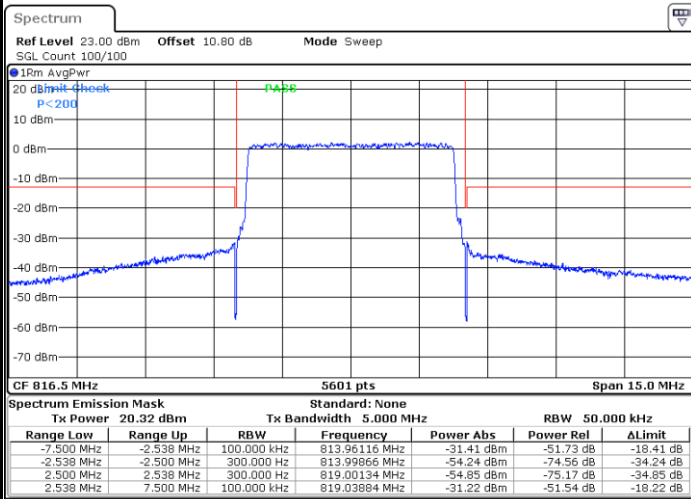
Date: 27.JAN.2020 08:13:15

Highest Band Edge / 1 RB



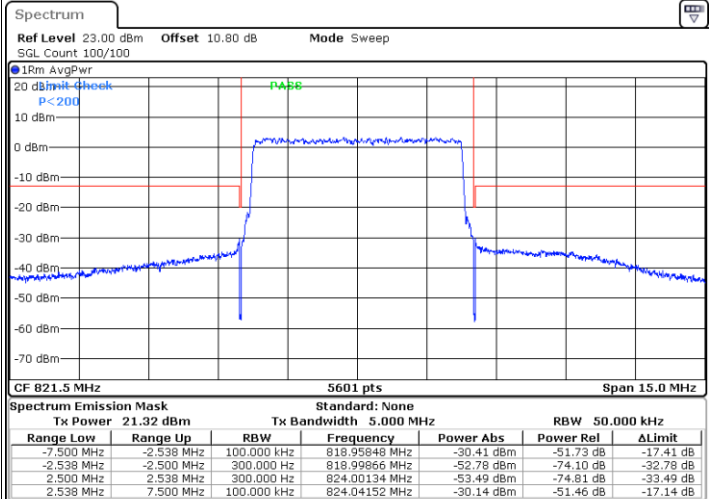
Date: 27.JAN.2020 08:15:10

Lowest Band Edge / Full RB



Date: 27.JAN.2020 08:14:13

Highest Band Edge / Full RB

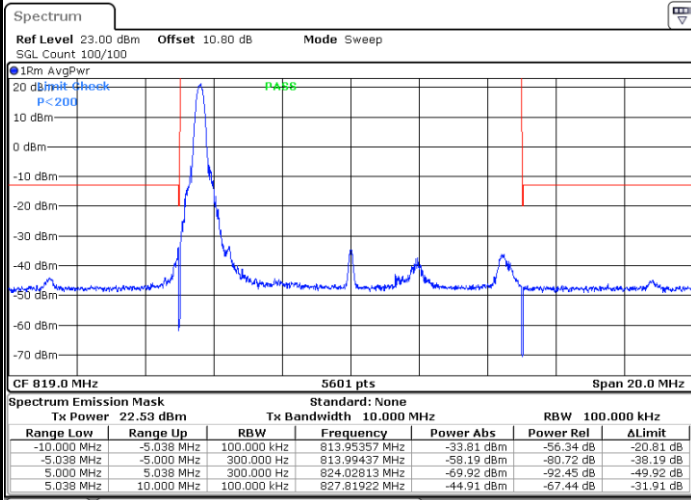


Date: 27.JAN.2020 23:16:48



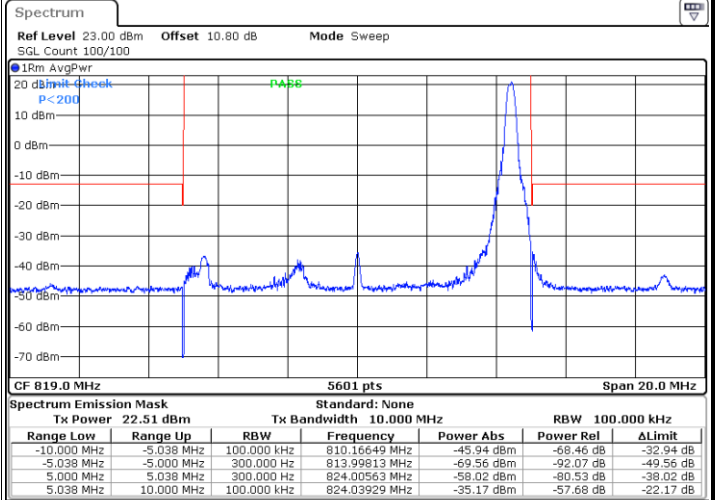
LTE Band 26 / 10MHz / QPSK

Lowest Band Edge / 1 RB



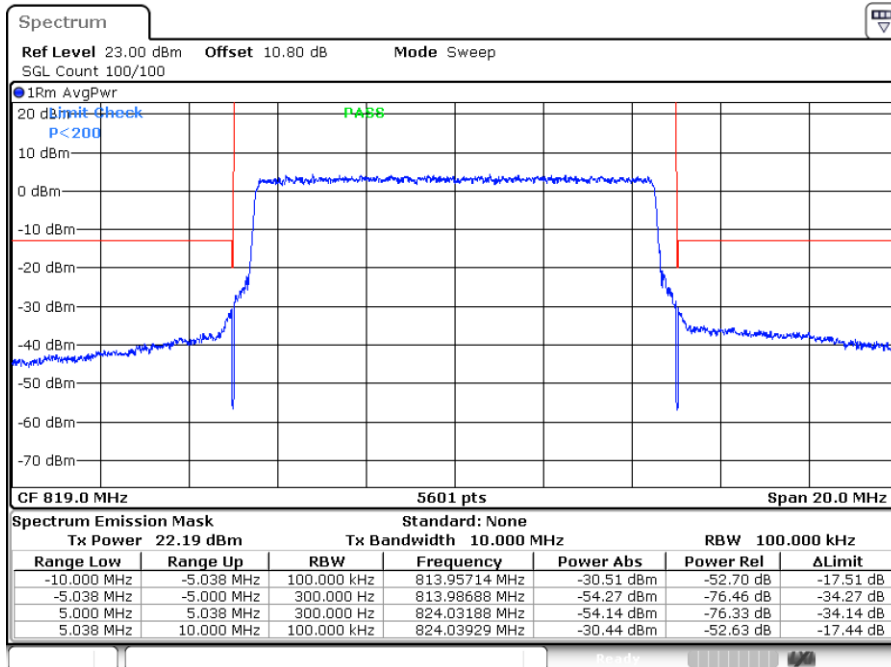
Date: 27.JAN.2020 07:54:00

Highest Band Edge / 1 RB



Date: 27.JAN.2020 07:55:55

Band Edge / Full RB

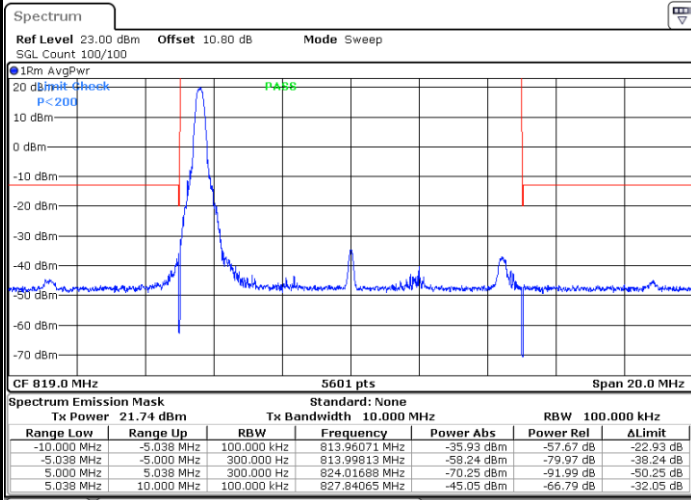


Date: 27.JAN.2020 07:57:50



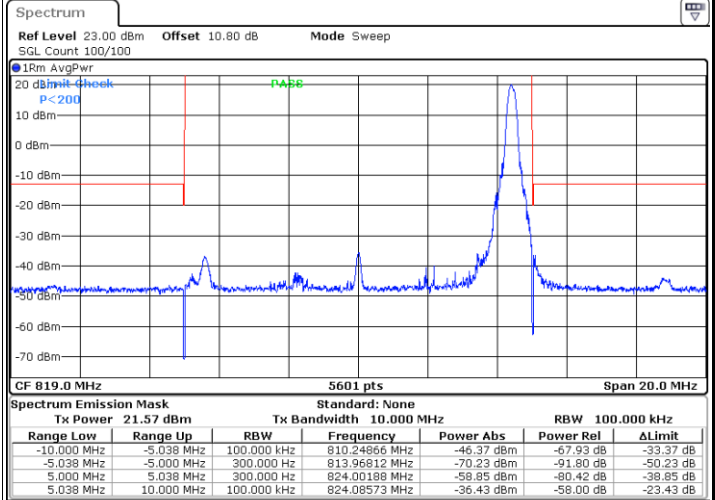
LTE Band 26 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



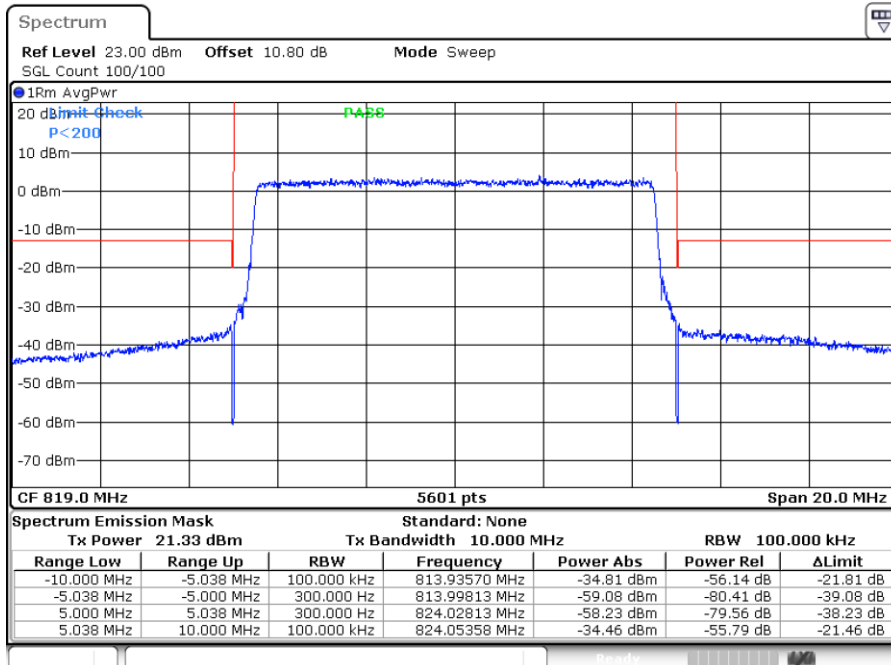
Date: 27.JAN.2020 07:54:57

Highest Band Edge / 1 RB



Date: 27.JAN.2020 07:56:52

Band Edge / Full RB

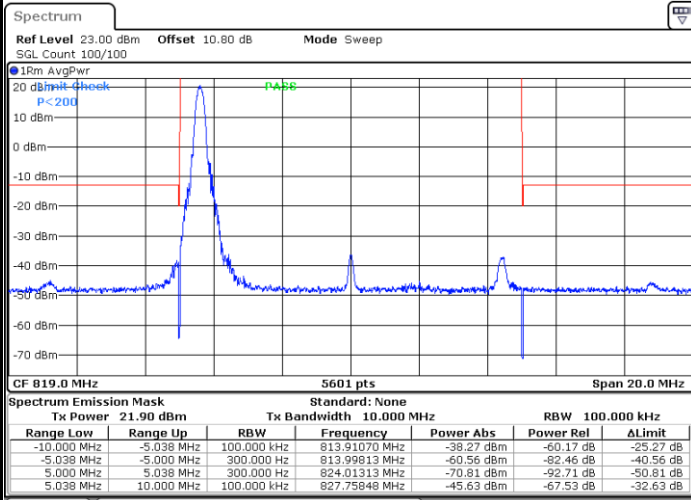


Date: 27.JAN.2020 07:58:47



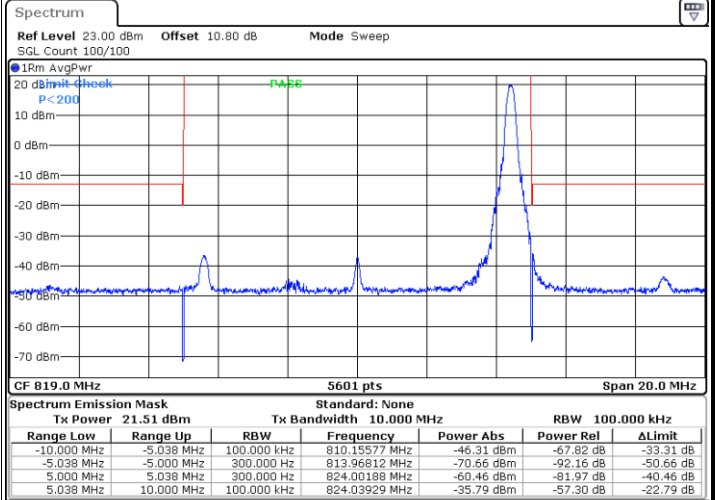
LTE Band 26 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



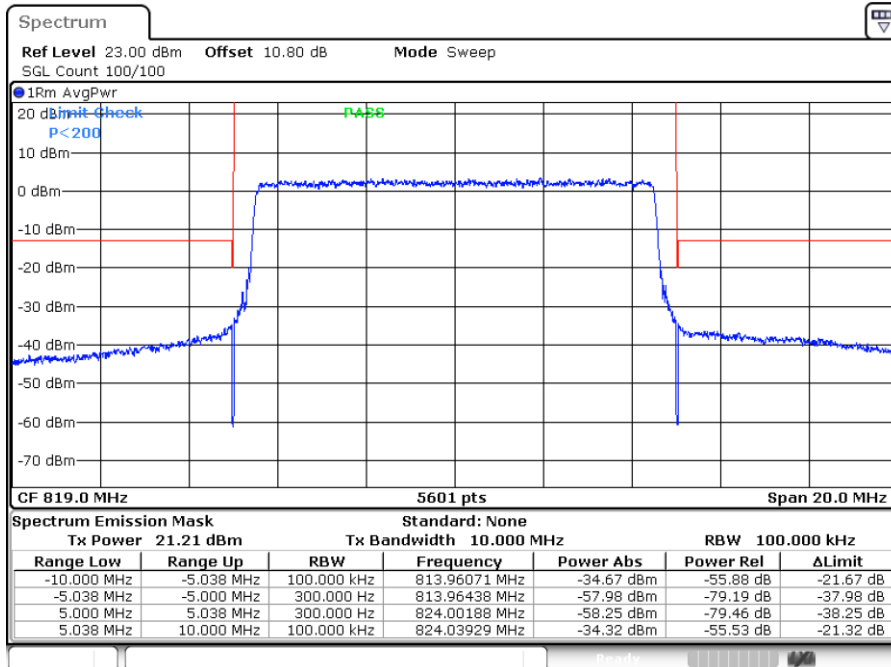
Date: 27.JAN.2020 23:17:47

Highest Band Edge / 1 RB



Date: 27.JAN.2020 23:18:45

Band Edge / Full RB

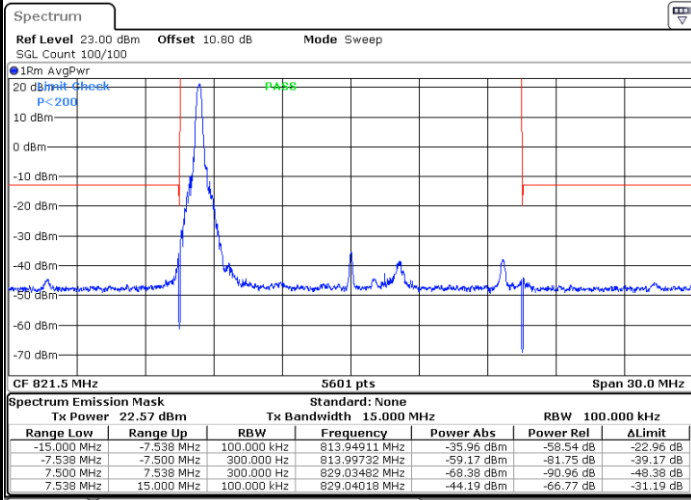


Date: 27.JAN.2020 23:19:43



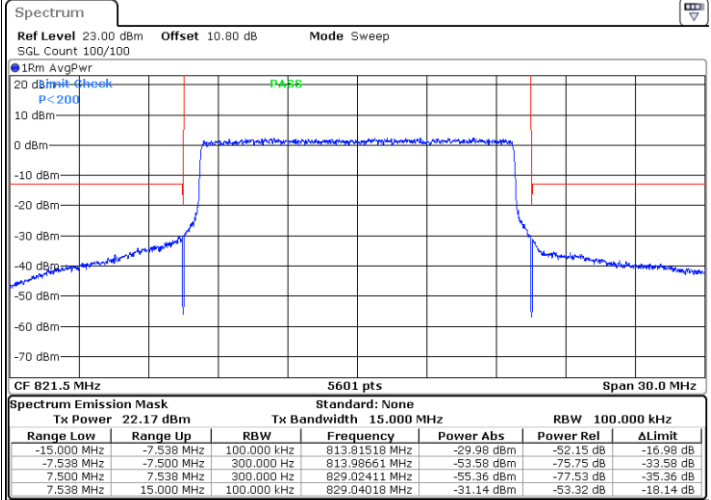
LTE Band 26 / 15MHz QPSK

Lowest Band Edge / 1 RB



Date: 27. JAN. 2020 07:59:45

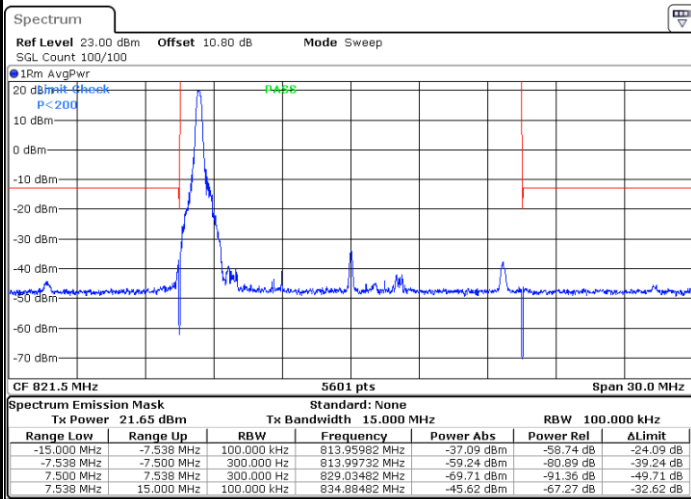
Lowest Band Edge / Full RB



Date: 27. JAN. 2020 08:03:34

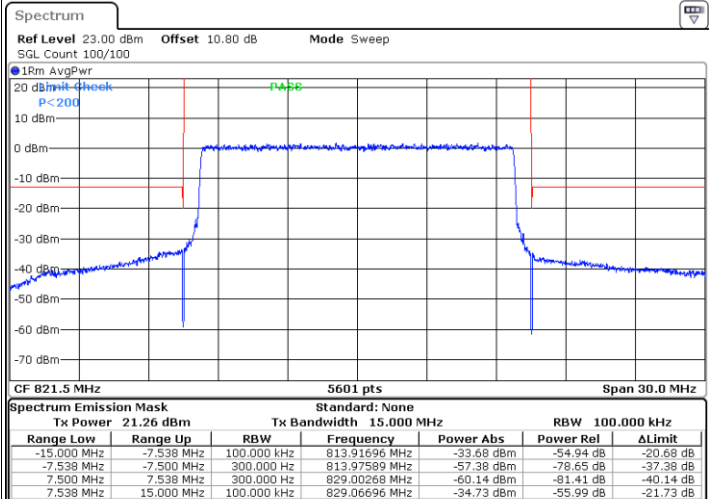
LTE Band 26 / 15MHz 16QAM

Lowest Band Edge / 1 RB



Date: 27. JAN. 2020 08:00:42

Lowest Band Edge / Full RB

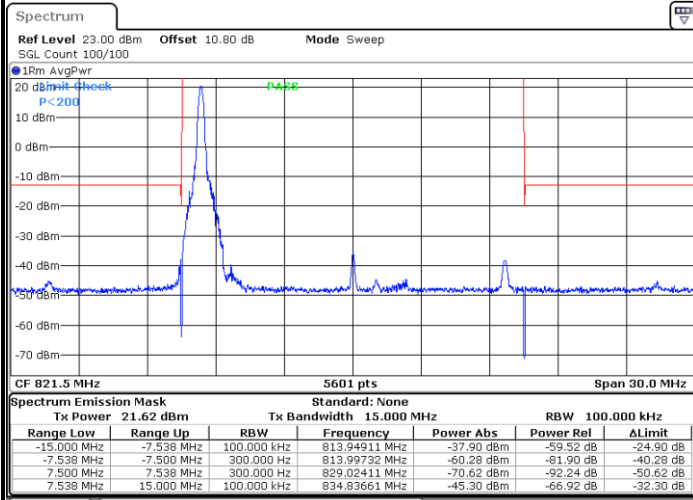


Date: 27. JAN. 2020 08:04:32



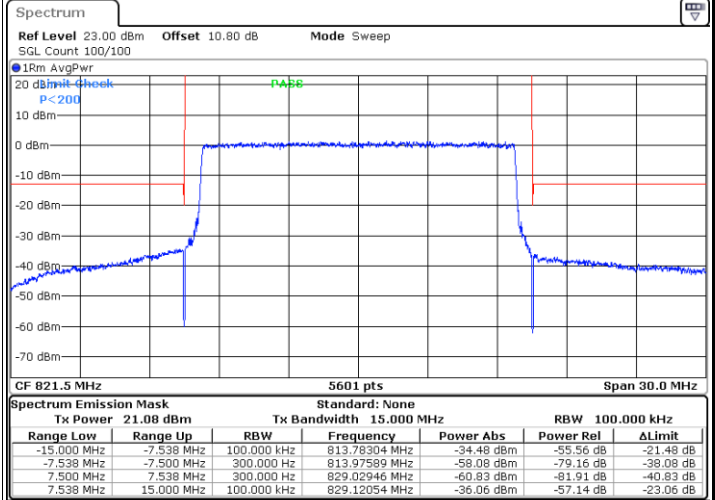
LTE Band 26 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 27.JAN.2020 23:20:42

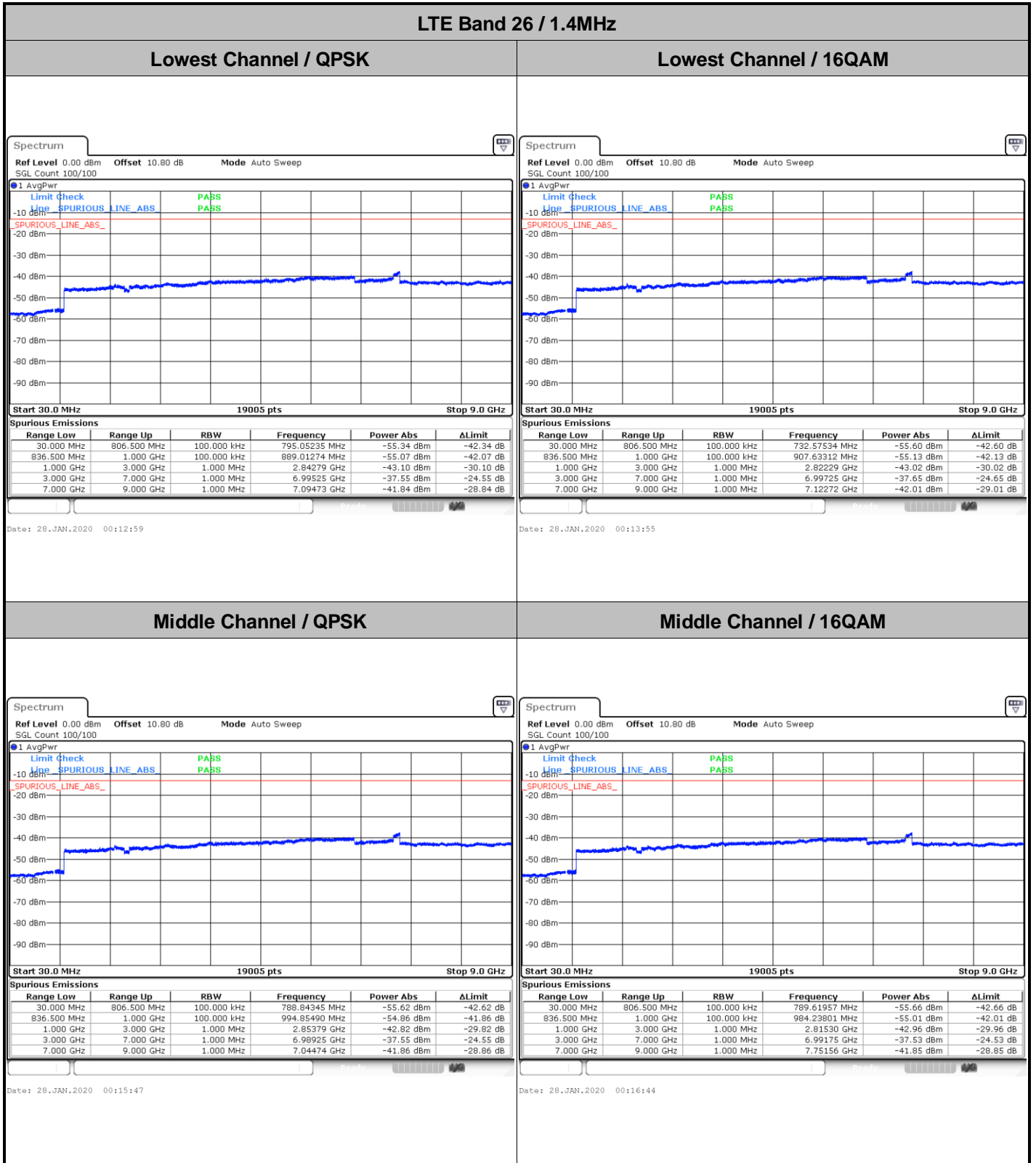
Lowest Band Edge / Full RB



Date: 27.JAN.2020 23:22:38



# Conducted Spurious Emission

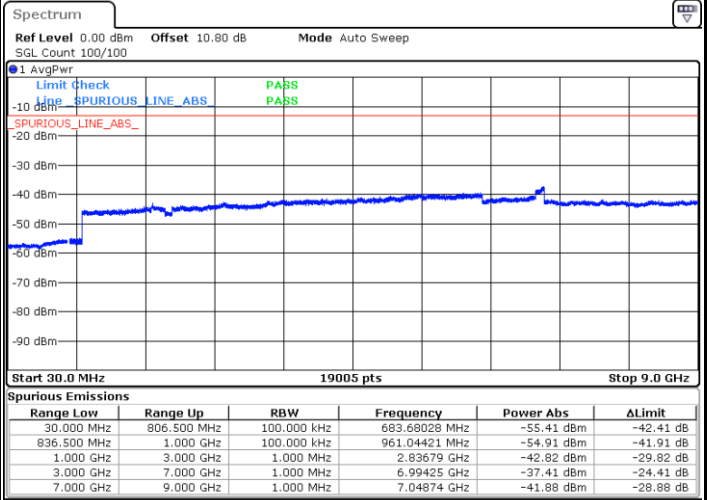
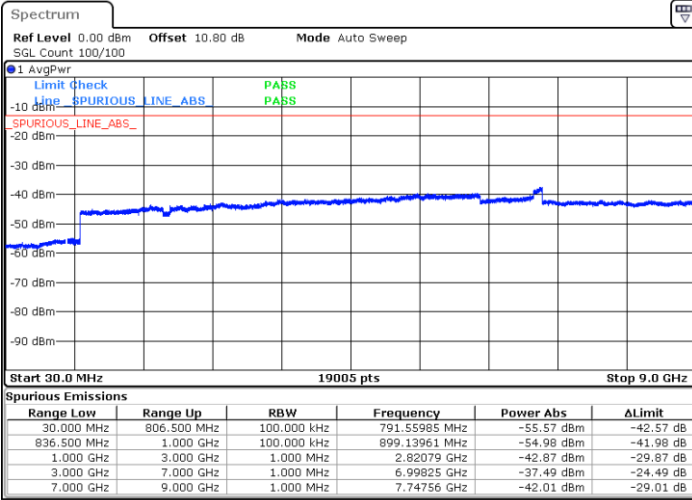




LTE Band 26 / 1.4MHz

Highest Channel / QPSK

Highest Channel / 16QAM



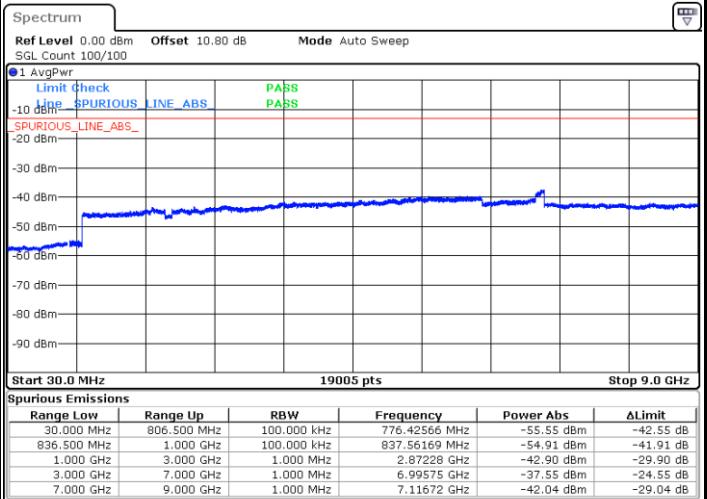
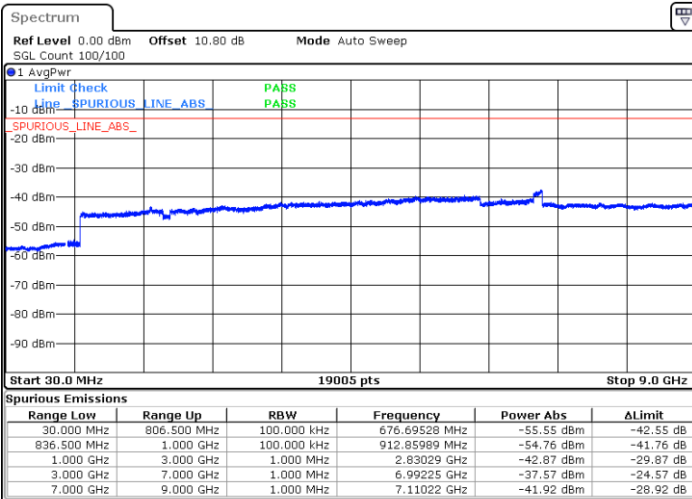
Date: 28.JAN.2020 00:18:36

Date: 28.JAN.2020 00:19:33

LTE Band 26 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 27.JAN.2020 23:46:33

Date: 27.JAN.2020 23:47:31

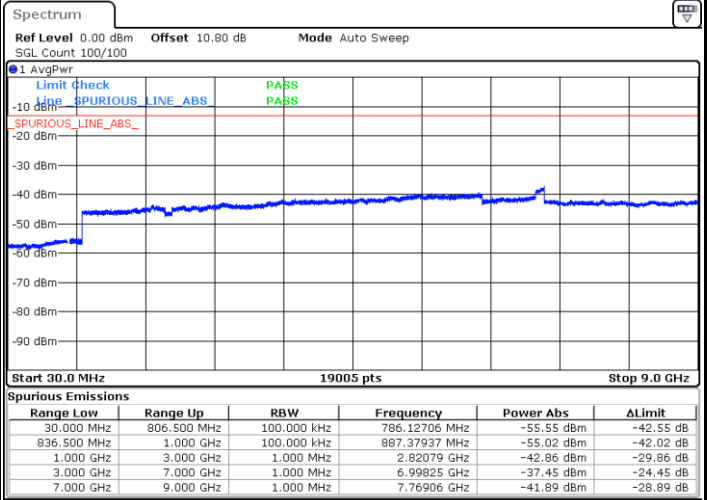
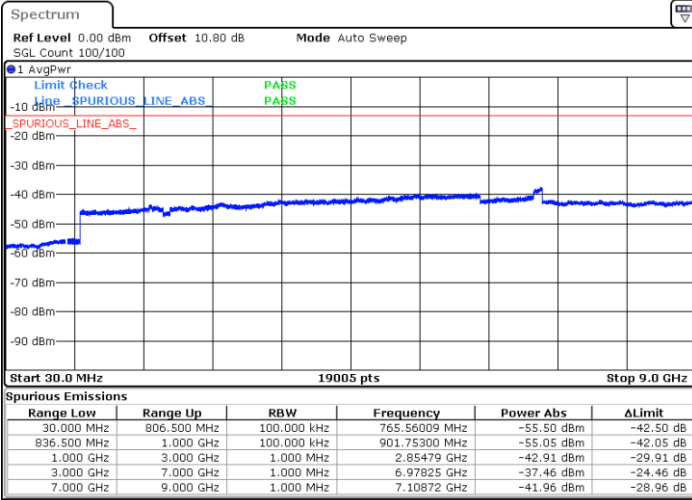




LTE Band 26 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

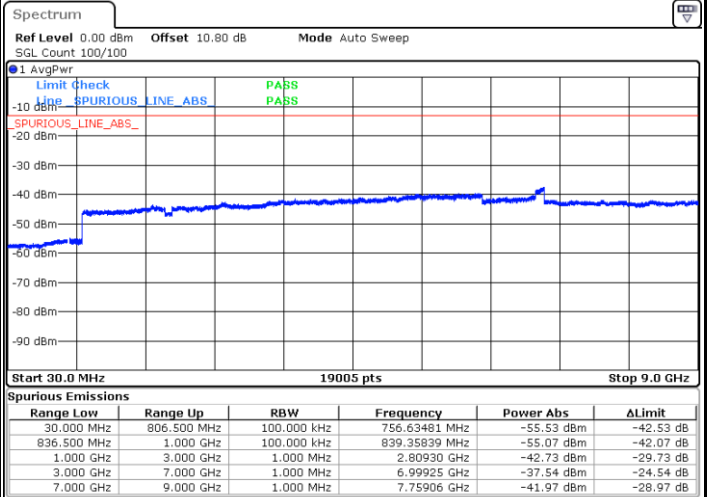
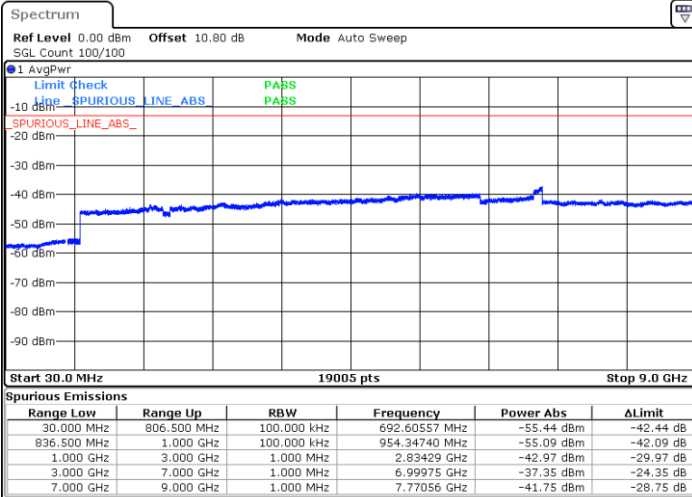


Date: 27.JAN.2020 23:49:23

Date: 27.JAN.2020 23:50:20

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 27.JAN.2020 23:52:13

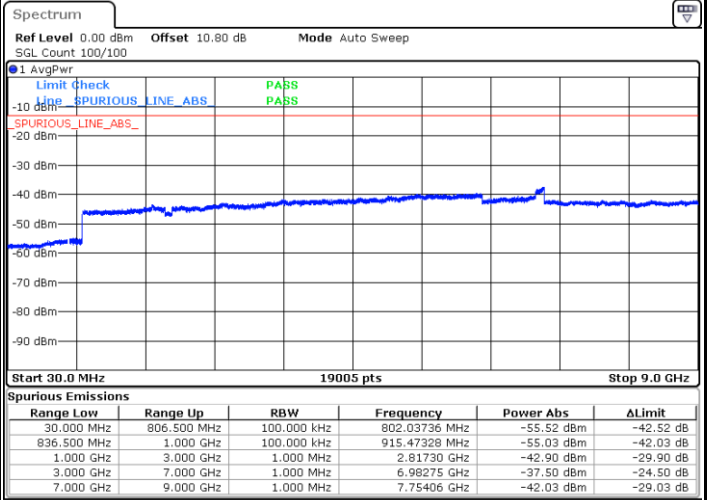
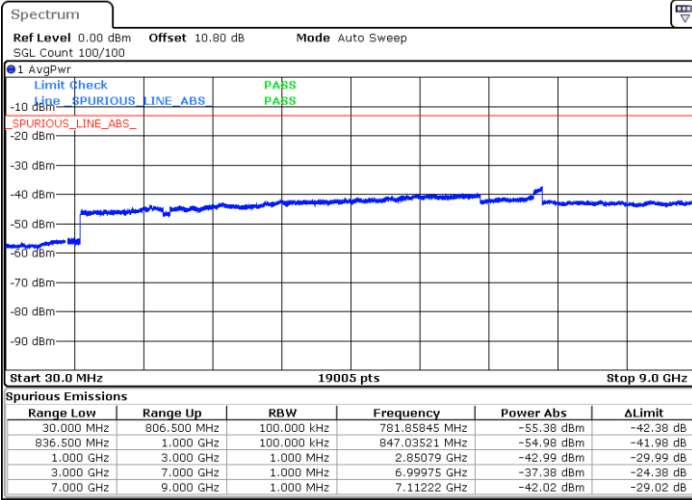
Date: 27.JAN.2020 23:53:10



LTE Band 26 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

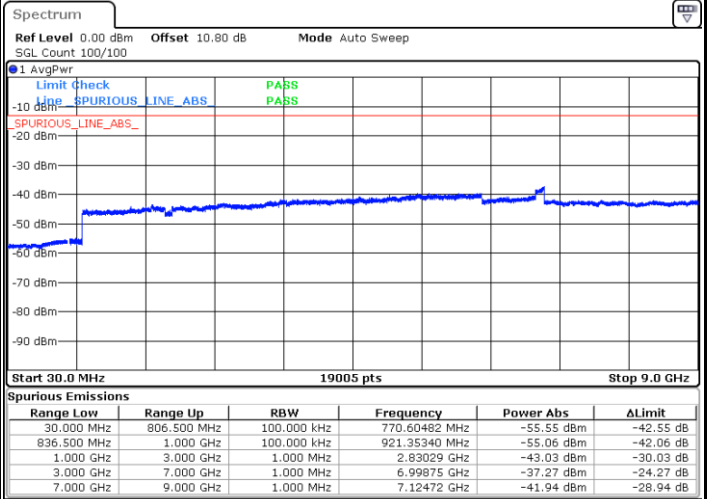
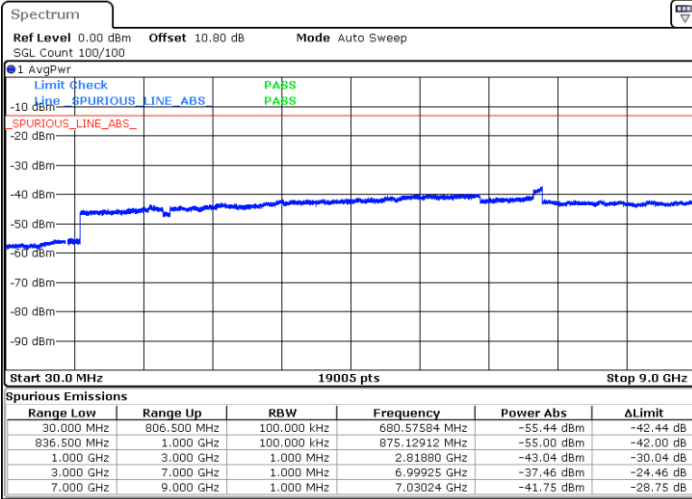


Date: 27.JAN.2020 23:55:03

Date: 27.JAN.2020 23:55:59

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 27.JAN.2020 23:57:52

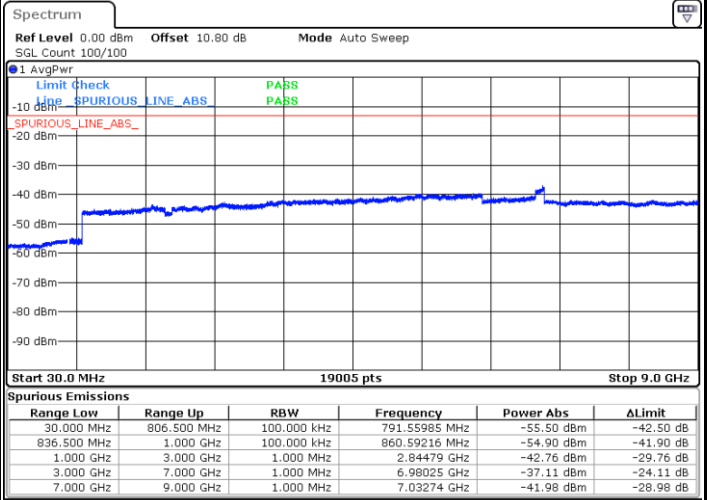
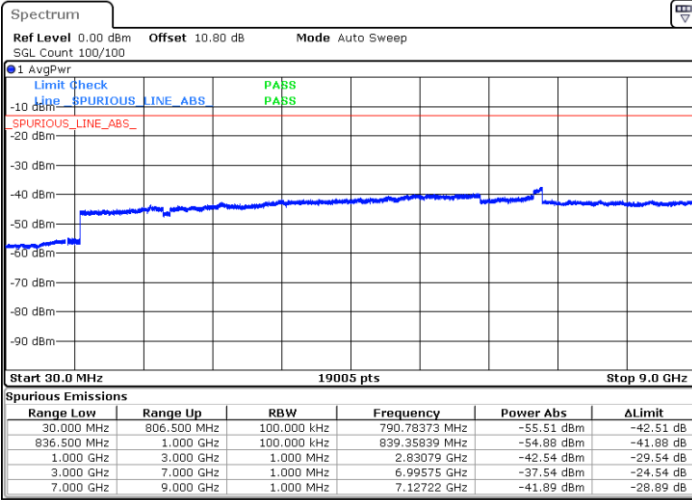
Date: 27.JAN.2020 23:58:48



LTE Band 26 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



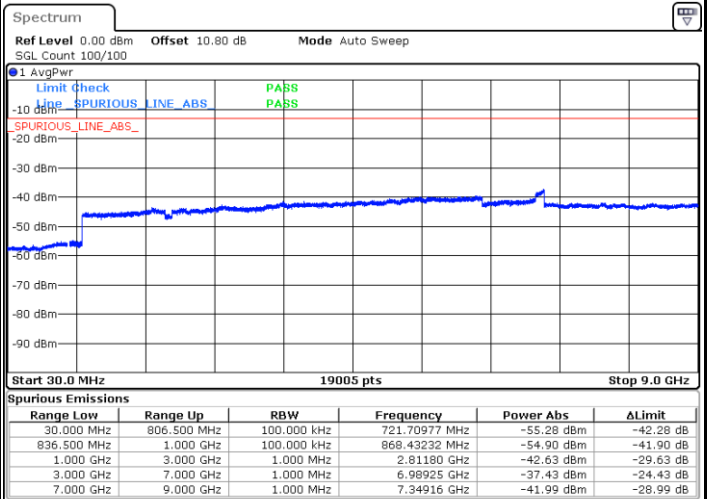
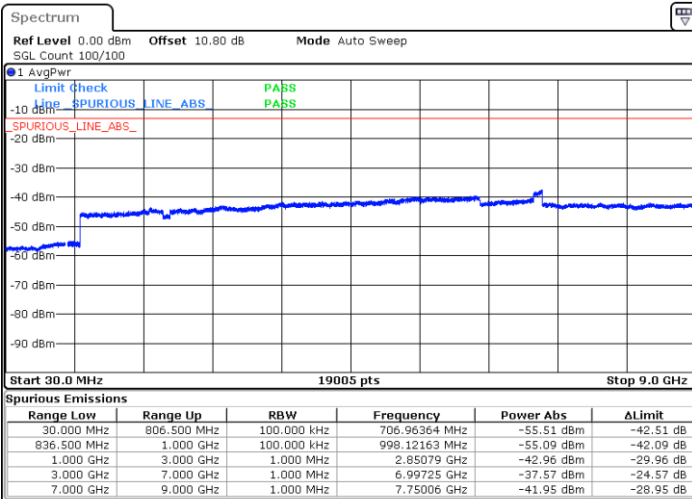
Date: 28.JAN.2020 00:00:41

Date: 28.JAN.2020 00:01:38

LTE Band 26 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 28.JAN.2020 00:03:31

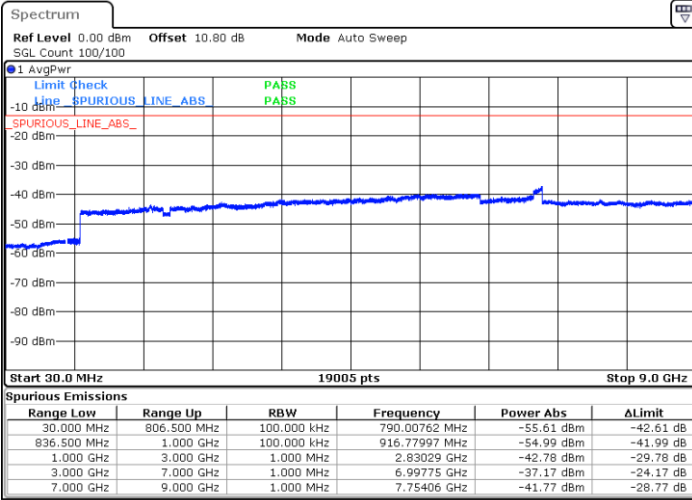
Date: 28.JAN.2020 00:04:28



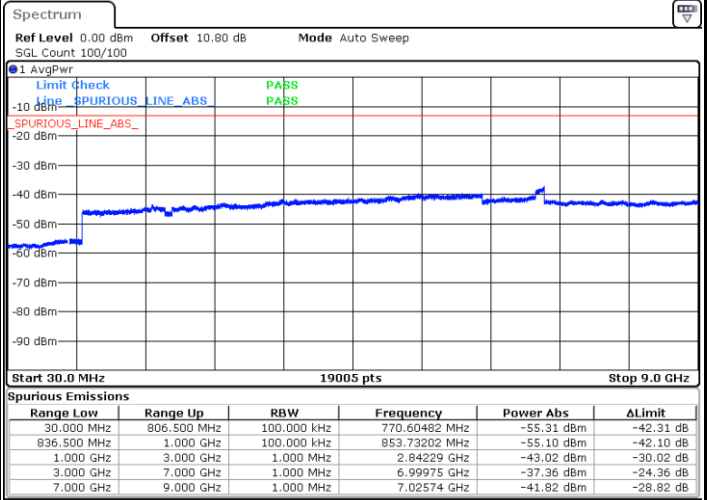
LTE Band 26 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 28.JAN.2020 00:06:21



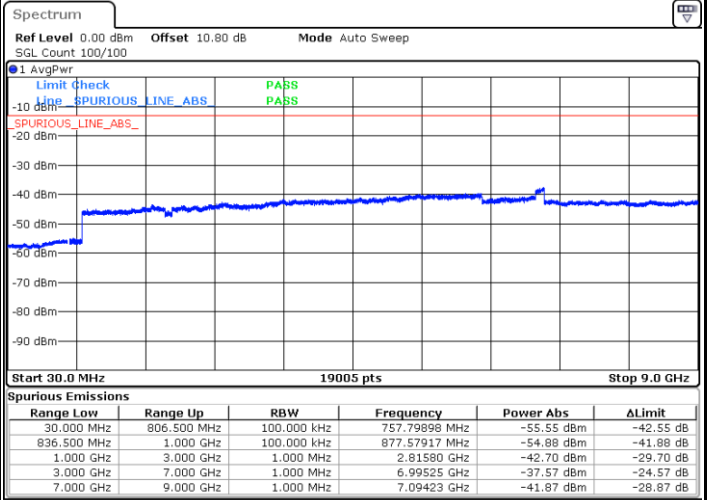
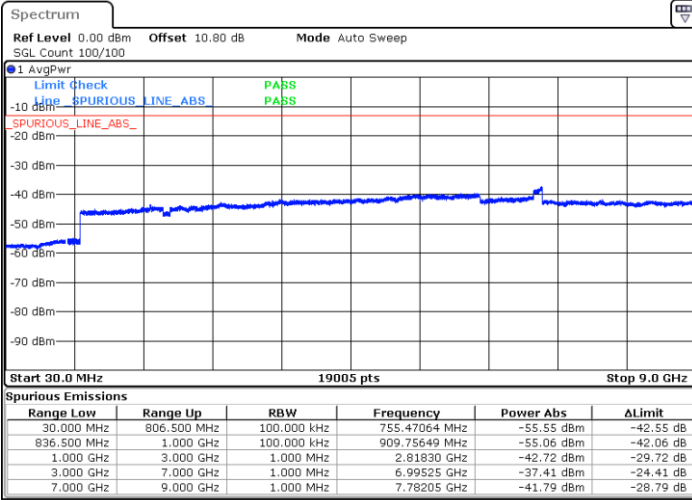
Date: 28.JAN.2020 00:07:18



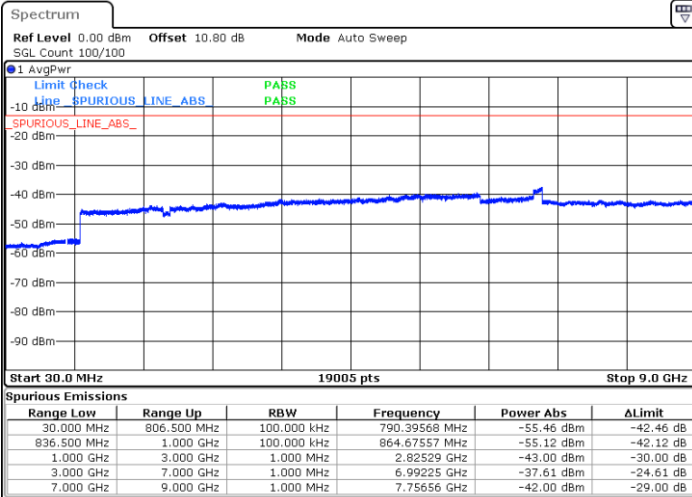
LTE Band 26 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM



Highest Channel / 64QAM

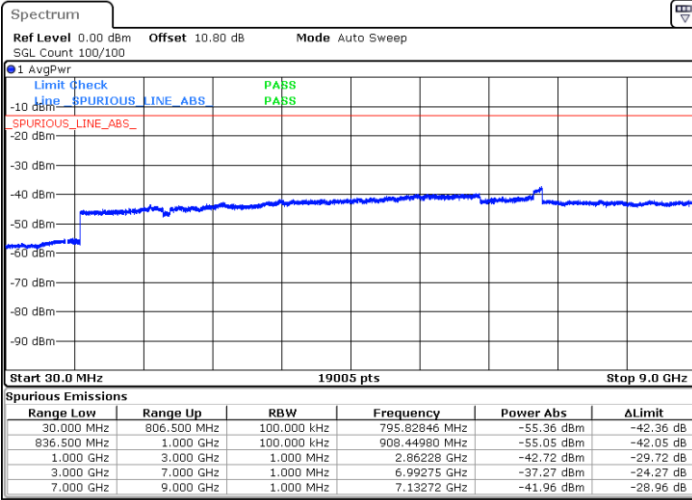




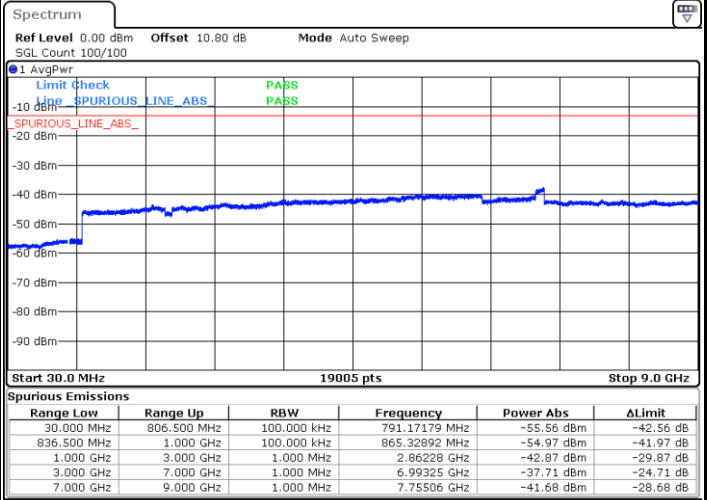
LTE Band 26 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

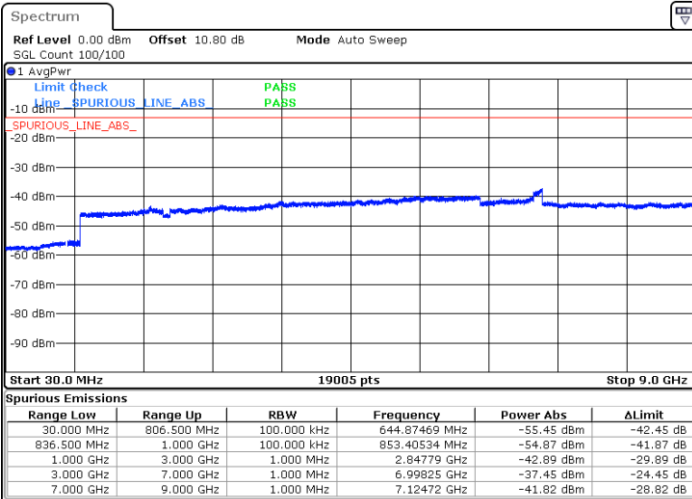


Date: 27.JAN.2020 23:24:03



Date: 27.JAN.2020 23:25:27

Highest Channel / 64QAM



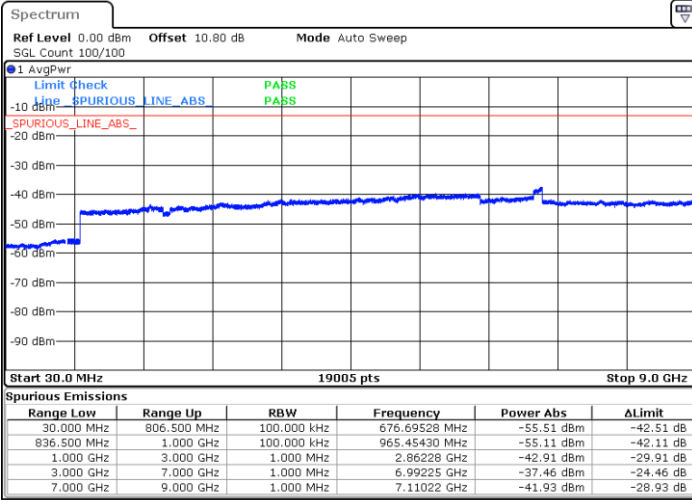
Date: 27.JAN.2020 23:26:51



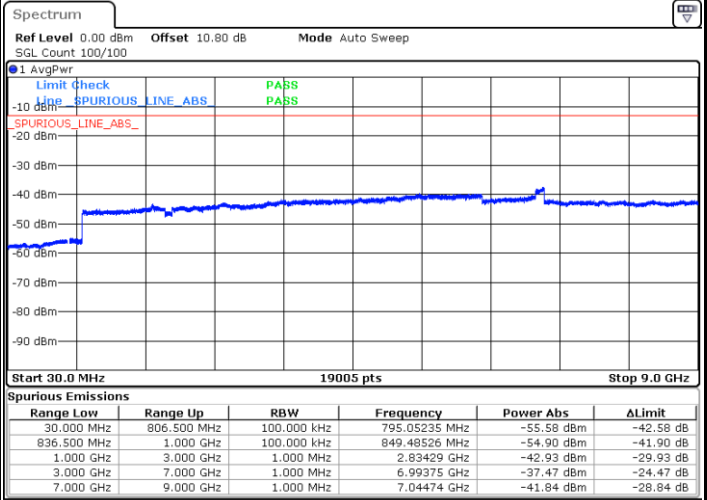
LTE Band 26 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

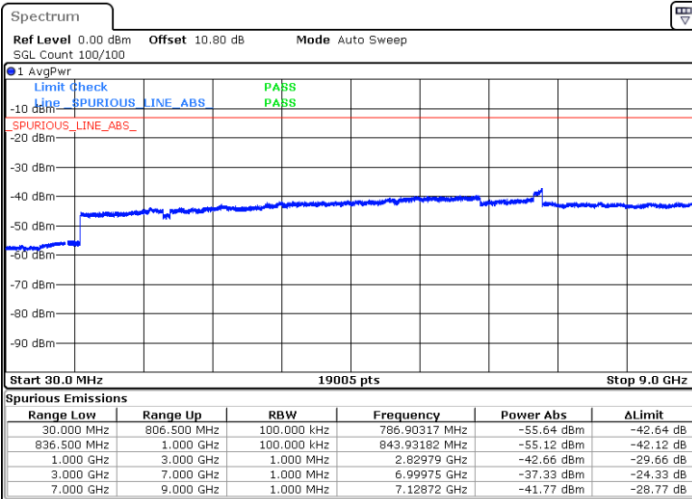


Date: 27.JAN.2020 23:28:16

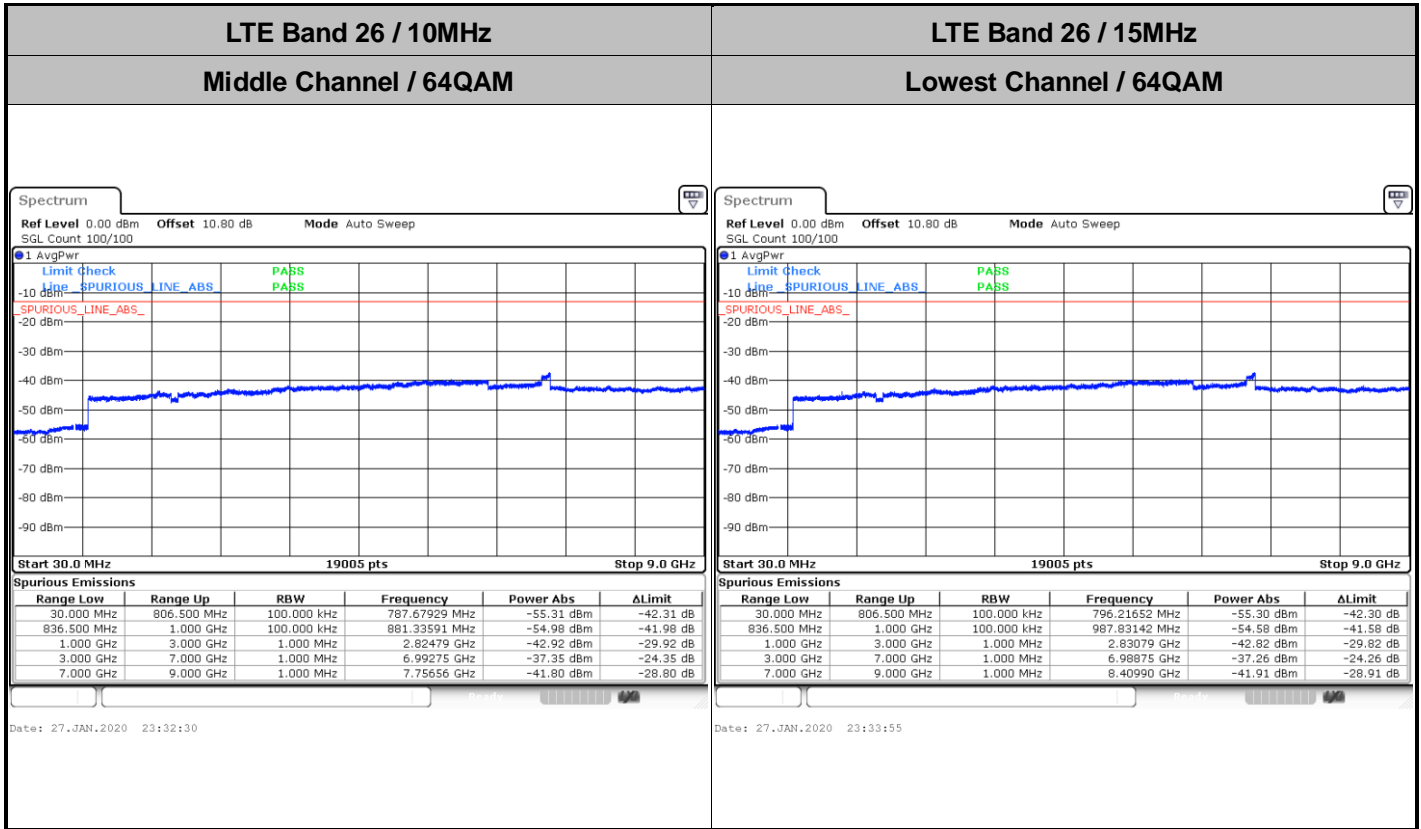


Date: 27.JAN.2020 23:29:40

Highest Channel / 64QAM



Date: 27.JAN.2020 23:31:05







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	0.0033	PASS
40	Normal Voltage	0.0046	
30	Normal Voltage	0.0057	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0154	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0033	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0023	
20	Maximum Voltage	0.0115	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0048	

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	0.0033	PASS
40	Normal Voltage	0.0056	
30	Normal Voltage	0.0065	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0035	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0041	
-30	Normal Voltage	0.0046	
20	Maximum Voltage	0.0063	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0113	

**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 = -2.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	74	24.98	0.3148	20.63	0.1156
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	16QAM	1	74	24.27	0.2673	19.92	0.0982
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	64QAM	1	37	23.16	0.2070	18.81	0.0760
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-



<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	74	24.66	0.2924	19.01	0.0796
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	16QAM	1	37	23.97	0.2495	18.32	0.0679
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	64QAM	1	37	22.88	0.1941	17.23	0.0528
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-



### 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	1640	-57.47	-13	-44.47	-70.43	-62.83	1.22	8.73	H
	2456	-57.53	-13	-44.53	-74.39	-64.41	1.43	10.46	H
	3272	-57.38	-13	-44.38	-76.13	-65.26	1.68	11.72	H
									H
									H
									H
	1640	-58.36	-13	-45.36	-71.19	-63.72	1.22	8.73	V
	2456	-57.59	-13	-44.59	-74.8	-64.47	1.43	10.46	V
	3272	-56.92	-13	-43.92	-76	-64.80	1.68	11.72	V
									V
									V
									V
Middle	1640	-58.55	-13	-45.55	-71.51	-63.91	1.22	8.73	H
	2464	-58.89	-13	-45.89	-75.73	-65.78	1.43	10.47	H
	3285	-56.80	-13	-43.80	-75.46	-64.71	1.69	11.76	H
									H
									H
									H
	1640	-56.57	-13	-43.57	-69.4	-61.93	1.22	8.73	V
	2464	-58.72	-13	-45.72	-75.88	-65.61	1.43	10.47	V
	3285	-56.54	-13	-43.54	-75.56	-64.45	1.69	11.76	V
									V
									V
									V
Highest	1648	-57.46	-13	-44.46	-70.43	-62.85	1.23	8.76	H
	2472	-57.70	-13	-44.70	-74.53	-64.59	1.44	10.48	H
	3295	-57.20	-13	-44.20	-75.8	-65.13	1.70	11.79	H
									H
									H
									H
	1648	-56.32	-13	-43.32	-69.17	-61.71	1.23	8.76	V
	2472	-54.00	-13	-41.00	-71.12	-60.89	1.44	10.48	V
	3295	-56.75	-13	-43.75	-75.74	-64.68	1.70	11.79	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	1640	-58.25	-13	-45.25	-71.21	-63.61	1.22	8.73	H
	2456	-57.25	-13	-44.25	-74.11	-64.13	1.43	10.46	H
	3272	-57.19	-13	-44.19	-75.94	-65.07	1.68	11.72	H
									H
									H
									H
									H
	1640	-56.83	-13	-43.83	-69.66	-62.19	1.22	8.73	V
	2456	-55.48	-13	-42.48	-72.69	-62.36	1.43	10.46	V
	3272	-56.76	-13	-43.76	-75.84	-64.64	1.68	11.72	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 )	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	-57.19	-13	-44.19	-70.18	-62.60	1.23	8.79	H
	2484	-58.81	-13	-45.81	-75.61	-65.71	1.44	10.49	H
	3313	-57.42	-13	-44.42	-75.91	-65.39	1.72	11.84	H
									H
									H
									H
									H
	1656	-55.35	-13	-42.35	-68.21	-60.76	1.23	8.79	V
	2484	-58.51	-13	-45.51	-75.55	-65.41	1.44	10.49	V
	3313	-57.14	-13	-44.14	-76.08	-65.11	1.72	11.84	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 / 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	1640	-54.37	-13	-41.37	-67.33	-59.73	1.22	8.73	H
	2456	-47.72	-13	-34.72	-64.58	-54.60	1.43	10.46	H
	3272	-57.44	-13	-44.44	-76.19	-65.32	1.68	11.72	H
									H
									H
									H
	1640	-53.68	-13	-40.68	-66.51	-59.04	1.22	8.73	V
	2456	-49.76	-13	-36.76	-66.97	-56.64	1.43	10.46	V
	3272	-56.55	-13	-43.55	-75.63	-64.43	1.68	11.72	V
									V
Middle	1640	-49.81	-13	-36.81	-62.77	-55.17	1.22	8.73	H
	2464	-56.88	-13	-43.88	-73.72	-63.77	1.43	10.47	H
	3285	-57.14	-13	-44.14	-75.8	-65.05	1.69	11.76	H
									H
									H
									H
	1640	-48.90	-13	-35.90	-61.73	-54.26	1.22	8.73	V
	2464	-51.43	-13	-38.43	-68.59	-58.32	1.43	10.47	V
	3285	-56.68	-13	-43.68	-75.7	-64.59	1.69	11.76	V
									V
Highest	1648	-53.61	-13	-40.61	-66.58	-59.00	1.23	8.76	H
	2472	-50.27	-13	-37.27	-67.1	-57.16	1.44	10.48	H
	3295	-57.61	-13	-44.61	-76.21	-65.54	1.70	11.79	H
									H
									H
									H
	1648	-52.24	-13	-39.24	-65.09	-57.63	1.23	8.76	V
	2472	-50.50	-13	-37.50	-67.62	-57.39	1.44	10.48	V
	3295	-57.25	-13	-44.25	-76.24	-65.18	1.70	11.79	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	1640	-49.58	-13	-36.58	-62.54	-54.94	1.22	8.73	H
	2456	-55.01	-13	-42.01	-71.87	-61.89	1.43	10.46	H
	3276	-57.17	-13	-44.17	-75.89	-65.06	1.69	11.73	H
									H
									H
									H
									H
	1640	-49.29	-13	-36.29	-62.12	-54.65	1.22	8.73	V
	2456	-49.62	-13	-36.62	-66.83	-56.50	1.43	10.46	V
	3276	-56.51	-13	-43.51	-75.57	-64.40	1.69	11.73	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 )	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	-48.51	-13	-35.51	-61.5	-53.92	1.23	8.79	H
	2488	-53.83	-13	-40.83	-70.62	-60.73	1.44	10.49	H
	3312	-57.50	-13	-44.50	-76	-65.47	1.72	11.84	H
									H
									H
									H
									H
	1656	-48.39	-13	-35.39	-61.25	-53.80	1.23	8.79	V
	2488	-47.63	-13	-34.63	-64.66	-54.53	1.44	10.49	V
	3312	-56.72	-13	-43.72	-75.66	-64.69	1.72	11.84	V
									V
									V
									V
									V

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

—————THE END—————