

Project Number:	13548896
Client:	Lions
Test Location:	S-SAC
Mode:	LTE2/20MHz/QPSK
Tested by:	11993
Date:	2020-10-28

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1860MHz												
1	3.70248	-61.44	Pk	33.1	-32.4	11.8	-48.94	-13	-35.94	0-360	101	H
2	5.55291	-58.96	Pk	34.4	-30.8	11.8	-43.56	-13	-30.56	0-360	101	H
3	9.25529	-68.93	Pk	36.3	-26.5	11.8	-47.33	-13	-34.33	0-360	101	H
4	3.70198	-59.77	Pk	33.1	-32.4	11.8	-47.27	-13	-34.27	0-360	101	V
5	5.55291	-61.99	Pk	34.4	-30.8	11.8	-46.59	-13	-33.59	0-360	200	V
6	9.25529	-69.37	Pk	36.3	-26.5	11.8	-47.77	-13	-34.77	0-360	101	V
1880MHz												
1	3.74197	-60.57	Pk	33.2	-32.8	11.8	-48.37	-13	-35.37	0-360	300	H
2	5.61291	-61.73	Pk	34.4	-29.8	11.8	-45.33	-13	-32.33	0-360	101	H
3	17.09702	-71.33	Pk	41.8	-23.2	11.8	-40.93	-13	-27.93	0-360	101	H
4	3.74247	-61.28	Pk	33.2	-32.8	11.8	-49.08	-13	-36.08	0-360	101	V
5	5.61341	-64.08	Pk	34.4	-29.8	11.8	-47.68	-13	-34.68	0-360	300	V
6	9.35528	-68.59	Pk	36.4	-26.5	11.8	-46.89	-13	-33.89	0-360	200	V
1900MHz												
1	5.67341	-60.68	Pk	34.5	-29.2	11.8	-43.58	-13	-30.58	0-360	101	H
2	9.45528	-67.03	Pk	36.4	-26.5	11.8	-45.33	-13	-32.33	0-360	101	H
3	16.98202	-70.07	Pk	42	-24.1	11.8	-40.37	-13	-27.37	0-360	199	H
4	3.78197	-63.42	Pk	33.3	-32.7	11.8	-51.02	-13	-38.02	0-360	101	V
5	5.67341	-65.04	Pk	34.5	-29.2	11.8	-47.94	-13	-34.94	0-360	300	V
6	9.45528	-64.21	Pk	36.4	-26.5	11.8	-42.51	-13	-29.51	0-360	200	V

Pk - Peak detector

**16QAM LTE BAND 2 (20.0MHZ BANDWIDTH)**

Project Number	13548896
Client	Lions
Test Location	N-SAC
Mode	LTE2/1860.0/20MHz/16-QAM
Tested by	19289 / 11993
Date	2020-11-11

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0074 (dB/m)	Amp/Cbl (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1860MHz													
1	60.85	-70.44	Pk	13.6	-30.9	.1	9.7	-77.94	-13	-64.94	0-360	399	H
5	60.9	-68.04	Pk	13.6	-30.9	.1	9.7	-75.54	-13	-62.54	0-360	100	V
2	83.15	-73.2	Pk	13.4	-30.6	.2	9.7	-80.5	-13	-67.5	0-360	399	H
6	84.95	-67.31	Pk	13.3	-30.5	.2	9.7	-74.61	-13	-61.61	0-360	100	V
7	110.35	-67.91	Pk	18.7	-30.2	.2	9.7	-69.51	-13	-56.51	0-360	100	V
3	110.55	-74.3	Pk	18.8	-30.2	.2	9.7	-75.8	-13	-62.8	0-360	299	H
4	470.8	-76.85	Pk	23.5	-27.1	.4	9.7	-70.35	-13	-57.35	0-360	199	H
8	623.55	-77.29	Pk	25.5	-26.6	.5	9.7	-68.19	-13	-55.19	0-360	99	V
1880MHz													
5	30.3	-71.03	Pk	26.7	-31.4	.1	9.7	-65.93	-13	-52.93	0-360	100	V
1	60.3	-70.92	Pk	13.5	-30.9	.1	9.7	-78.52	-13	-65.52	0-360	399	H
6	60.55	-67.61	Pk	13.6	-30.9	.1	9.7	-75.11	-13	-62.11	0-360	100	V
2	84.3	-73.11	Pk	13.3	-30.5	.2	9.7	-80.41	-13	-67.41	0-360	399	H
7	85.25	-66.68	Pk	13.3	-30.5	.2	9.7	-73.98	-13	-60.98	0-360	100	V
8	110.25	-68.58	Pk	18.7	-30.2	.2	9.7	-70.18	-13	-57.18	0-360	100	V
3	111.55	-73.68	Pk	18.9	-30.2	.2	9.7	-75.08	-13	-62.08	0-360	399	H
4	421.5	-75.53	Pk	22.5	-27.4	.4	9.7	-70.33	-13	-57.33	0-360	199	H
9	518.55	-75.83	Pk	23.8	-26.9	.5	9.7	-68.73	-13	-55.73	0-360	99	V
1900MHz													
1	60.25	-70.74	Pk	13.5	-30.9	.1	9.7	-78.34	-13	-65.34	0-360	399	H
5	60.95	-68.12	Pk	13.6	-30.9	.1	9.7	-75.62	-13	-62.62	0-360	100	V
2	84.575	-73.23	Pk	13.3	-30.5	.2	9.7	-80.53	-13	-67.53	0-360	299	H
6	84.85	-66.78	Pk	13.3	-30.5	.2	9.7	-74.08	-13	-61.08	0-360	100	V
7	109.65	-68.44	Pk	18.6	-30.2	.2	9.7	-70.14	-13	-57.14	0-360	100	V
3	110.9	-74.03	Pk	18.8	-30.2	.2	9.7	-75.53	-13	-62.53	0-360	299	H
4	499.55	-76.83	Pk	23.8	-27	.5	9.7	-69.83	-13	-56.83	0-360	200	H
8	636.2	-77.53	Pk	25.9	-26.5	.5	9.7	-67.93	-13	-54.93	0-360	100	V

Pk - Peak detector

Project Number:	13548896
Client:	Lions
Test Location:	S-SAC
Mode:	LTE2/20MHz/16-QAM
Tested by:	11993
Date:	2020-11-03

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1860 MHz												
1	3.70298	-59.93	Pk	33.1	-32.5	11.8	-47.53	-13	-34.53	0-360	200	H
2	5.55391	-57.54	Pk	34.4	-30.8	11.8	-42.14	-13	-29.14	0-360	101	H
3	9.25579	-68.63	Pk	36.3	-26.5	11.8	-47.03	-13	-34.03	0-360	299	H
4	3.70248	-61.16	Pk	33.1	-32.4	11.8	-48.66	-13	-35.66	0-360	299	V
5	5.55341	-65.28	Pk	34.4	-30.8	11.8	-49.88	-13	-36.88	0-360	299	V
6	9.25529	-67.33	Pk	36.3	-26.5	11.8	-45.73	-13	-32.73	0-360	101	V
1880MHz												
1	3.74197	-62.04	Pk	33.2	-32.8	11.8	-49.84	-13	-36.84	0-360	200	H
2	5.61291	-60.12	Pk	34.4	-29.8	11.8	-43.72	-13	-30.72	0-360	101	H
3	17.43751	-70.81	Pk	41.1	-23.2	11.8	-41.11	-13	-28.11	0-360	101	H
4	3.74197	-60.94	Pk	33.2	-32.8	11.8	-48.74	-13	-35.74	0-360	101	V
5	5.61291	-65.56	Pk	34.4	-29.8	11.8	-49.16	-13	-36.16	0-360	101	V
6	9.35528	-68.49	Pk	36.4	-26.5	11.8	-46.79	-13	-33.79	0-360	101	V
1900 MHz												
1	3.78197	-63.91	Pk	33.3	-32.7	11.8	-51.51	-13	-38.51	0-360	101	H
2	5.67341	-64.82	Pk	34.5	-29.2	11.8	-47.72	-13	-34.72	0-360	101	H
3	9.45478	-71.53	Pk	36.4	-26.5	11.8	-49.83	-13	-36.83	0-360	300	H
4	3.78197	-61.93	Pk	33.3	-32.7	11.8	-49.53	-13	-36.53	0-360	101	V
5	5.67341	-65.92	Pk	34.5	-29.2	11.8	-48.82	-13	-35.82	0-360	300	V
6	9.45528	-63.72	Pk	36.4	-26.5	11.8	-42.02	-13	-29.02	0-360	101	V

Pk - Peak detector

**9.2.2. LTE BAND 4**

**QPSK LTE BAND 4 (20.0MHZ BANDWIDTH)**

Project Number:	13548896
Client:	Lions
Test Location:	S-SAC
Mode:	LTE4/20MHz/QPSK
Tested by:	11993
Date:	2020-12-14 and 2020-12-15

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0075 AF (dB/m)	Amp/Cbl (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1720MHz													
1	31.3	-66.32	Pk	26.3	-31.5	.1	9.7	-61.72	-13	-48.72	0-360	299	H
4	32.9	-54.69	Pk	25.1	-31.5	.1	9.7	-51.29	-13	-38.29	0-360	101	V
5	41.45	-52.23	Pk	18.7	-31.4	.1	9.7	-55.13	-13	-42.13	0-360	101	V
2	78	-62.48	Pk	14	-30.8	.2	9.7	-69.38	-13	-56.38	0-360	200	H
6	78	-59.49	Pk	14	-30.8	.2	9.7	-66.39	-13	-53.39	0-360	101	V
3	555.1	-73.9	Pk	24.4	-27.7	.5	9.7	-67	-13	-54	0-360	199	H
1732.5MHz													
4	78	-68.14	Pk	14	-30.8	.2	9.7	-75.04	-13	-62.04	0-360	101	V
1	97	-71.42	Pk	15.9	-30.6	.2	9.7	-76.22	-13	-63.22	0-360	300	H
2	130	-76.03	Pk	20	-30.2	.2	9.7	-76.33	-13	-63.33	0-360	199	H
5	182.05	-73.35	Pk	17.4	-29.7	.3	9.7	-75.65	-13	-62.65	0-360	101	V
6	247.9	-72.46	Pk	17.6	-29.2	.3	9.7	-74.06	-13	-61.06	0-360	199	V
3	266.3	-76.19	Pk	18.8	-29.1	.3	9.7	-76.49	-13	-63.49	0-360	101	H
1745MHz													
4	40.9	-66.98	Pk	19.1	-31.4	.1	9.7	-69.48	-13	-56.48	0-360	101	V
1	78	-68.56	Pk	14	-30.8	.2	9.7	-75.46	-13	-62.46	0-360	200	H
5	78	-68.09	Pk	14	-30.8	.2	9.7	-74.99	-13	-61.99	0-360	101	V
2	97.35	-70.88	Pk	15.9	-30.6	.2	9.7	-75.68	-13	-62.68	0-360	300	H
6	957.2	-77.2	Pk	29	-24.9	.7	9.7	-62.7	-13	-49.7	0-360	299	V
3	994.8	-79.15	Pk	29.4	-24.3	.7	9.7	-63.65	-13	-50.65	0-360	400	H

Pk - Peak detector

Project Number:	13548896
Client:	Lions
Test Location:	S-SAC
Mode:	LTE4/20MHz/QPSK
Tested by:	11993
Date:	2020-10-29 and 2020-10-30

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1720MHz												
1	5.13293	-61.96	Pk	34.1	-31.1	11.8	-47.16	-13	-34.16	0-360	101	H
2	6.84437	-65.62	Pk	35.7	-28.8	11.8	-46.92	-13	-33.92	0-360	101	H
3	16.91553	-72.62	Pk	42	-23.5	11.8	-42.32	-13	-29.32	0-360	300	H
4	5.13293	-62.85	Pk	34.1	-31.1	11.8	-48.05	-13	-35.05	0-360	101	V
5	6.84437	-68.42	Pk	35.7	-28.8	11.8	-49.72	-13	-36.72	0-360	200	V
6	16.97452	-71.27	Pk	42	-24.1	11.8	-41.57	-13	-28.57	0-360	200	V
1732.5MHz												
1	5.17093	-60.71	Pk	34.2	-31.3	11.8	-46.01	-13	-33.01	0-360	101	H
2	6.89387	-63.22	Pk	35.7	-28.5	11.8	-44.22	-13	-31.22	0-360	101	H
3	12.32918	-71.65	Pk	38.9	-24.1	11.8	-45.05	-13	-32.05	0-360	101	H
4	5.17043	-59.34	Pk	34.2	-31.3	11.8	-44.64	-13	-31.64	0-360	101	V
5	6.89437	-68.21	Pk	35.7	-28.5	11.8	-49.21	-13	-36.21	0-360	101	V
6	15.41908	-73.79	Pk	40.3	-21.9	11.8	-43.59	-13	-30.59	0-360	101	V
1745MHz												
1	5.20792	-60.37	Pk	34.3	-30.8	11.8	-45.07	-13	-32.07	0-360	101	H
2	6.94387	-63.93	Pk	35.7	-27.8	11.8	-44.23	-13	-31.23	0-360	101	H
3	10.41575	-70.75	Pk	37.6	-25	11.8	-46.35	-13	-33.35	0-360	101	H
4	5.20792	-61.2	Pk	34.3	-30.8	11.8	-45.9	-13	-32.9	0-360	101	V
5	6.94487	-68.73	Pk	35.7	-27.8	11.8	-49.03	-13	-36.03	0-360	101	V
6	10.41625	-68.94	Pk	37.6	-25	11.8	-44.54	-13	-31.54	0-360	101	V

Pk - Peak detector

**16QAM LTE BAND 4 (20.0MHZ BANDWIDTH)**

Project Number:	13548896
Client:	Lions
Test Location:	S-SAC
Mode:	LTE4/20MHz/16-QAM
Tested by:	85198/11993
Date:	2020-12-14

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0075 AF (dB/m)	Amp/Cbl (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1720MHz													
4	63.05	-69.41	Pk	13.9	-31.1	.1	9.7	-76.81	-13	-63.81	0-360	101	V
1	78	-68.3	Pk	14	-30.8	.2	9.7	-75.2	-13	-62.2	0-360	299	H
5	78	-68.23	Pk	14	-30.8	.2	9.7	-75.13	-13	-62.13	0-360	101	V
2	97.85	-72.21	Pk	15.9	-30.6	.2	9.7	-77.01	-13	-64.01	0-360	200	H
3	181.95	-74.85	Pk	17.4	-29.7	.3	9.7	-77.15	-13	-64.15	0-360	99	H
6	201.55	-77.06	Pk	18.9	-29.5	.3	9.7	-77.66	-13	-64.66	0-360	101	V
1732.5MHz													
4	62.35	-67.43	Pk	13.9	-31	.1	9.7	-74.73	-13	-61.73	0-360	101	V
1	76.5	-72.84	Pk	14.2	-30.9	.2	9.7	-79.64	-13	-66.64	0-360	300	H
5	78	-68.08	Pk	14	-30.8	.2	9.7	-74.98	-13	-61.98	0-360	101	V
2	97.2	-69.93	Pk	15.9	-30.6	.2	9.7	-74.73	-13	-61.73	0-360	200	H
6	143.55	-74.7	Pk	18.9	-30.1	.3	9.7	-75.9	-13	-62.9	0-360	101	V
3	576	-76.49	Pk	24.7	-27.6	.5	9.7	-69.19	-13	-56.19	0-360	200	H
1745MHz													
4	33.35	-69.06	Pk	24.8	-31.5	.1	9.7	-65.96	-13	-52.96	0-360	101	V
5	63.275	-66.6	Pk	13.9	-31.1	.1	9.7	-74	-13	-61	0-360	101	V
1	96.85	-70.32	Pk	15.9	-30.6	.2	9.7	-75.12	-13	-62.12	0-360	400	H
2	256.45	-73.74	Pk	17.5	-29.1	.3	9.7	-75.34	-13	-62.34	0-360	101	H
6	923.7	-77.86	Pk	28.8	-25.1	.6	9.7	-63.86	-13	-50.86	0-360	200	V
3	928.9	-79.03	Pk	28.9	-25.2	.6	9.7	-65.03	-13	-52.03	0-360	200	H

Pk - Peak detector

Project Number:	13548896
Client:	Lions
Test Location:	S-SAC
Mode:	LTE4/20MHz/16-QAM
Tested by:	11993
Date:	2020-11-03

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1720MHz												
1	5.13343	-64.19	Pk	34.1	-31.1	11.8	-49.39	-13	-36.39	0-360	101	H
2	6.84437	-67.76	Pk	35.7	-28.8	11.8	-49.06	-13	-36.06	0-360	101	H
3	17.01752	-71.78	Pk	41.9	-23.9	11.8	-41.98	-13	-28.98	0-360	101	H
4	5.13343	-62.89	Pk	34.1	-31.1	11.8	-48.09	-13	-35.09	0-360	101	V
5	10.45925	-71.05	Pk	37.7	-25.1	11.8	-46.65	-13	-33.65	0-360	101	V
6	17.14902	-71.9	Pk	41.6	-23	11.8	-41.5	-13	-28.5	0-360	299	V
1732.5MHz												
1	5.17043	-61.01	Pk	34.2	-31.3	11.8	-46.31	-13	-33.31	0-360	101	H
2	6.89437	-64.44	Pk	35.7	-28.5	11.8	-45.44	-13	-32.44	0-360	101	H
3	16.59154	-72.05	Pk	41.6	-23.1	11.8	-41.75	-13	-28.75	0-360	101	H
4	5.17043	-59.47	Pk	34.2	-31.3	11.8	-44.77	-13	-31.77	0-360	101	V
5	6.89487	-68.75	Pk	35.7	-28.5	11.8	-49.75	-13	-36.75	0-360	200	V
6	15.47708	-71.89	Pk	40.3	-23	11.8	-42.79	-13	-29.79	0-360	200	V
1745MHz												
1	5.20842	-64.15	Pk	34.3	-30.8	11.8	-48.85	-13	-35.85	0-360	101	H
2	6.94437	-65.27	Pk	35.7	-27.8	11.8	-45.57	-13	-32.57	0-360	101	H
3	17.561	-70.66	Pk	41	-22.9	11.8	-40.76	-13	-27.76	0-360	101	H
4	5.20842	-61.88	Pk	34.3	-30.8	11.8	-46.58	-13	-33.58	0-360	101	V
5	6.94387	-68.85	Pk	35.7	-27.8	11.8	-49.15	-13	-36.15	0-360	200	V
6	10.41625	-68.89	Pk	37.6	-25	11.8	-44.49	-13	-31.49	0-360	101	V

Pk - Peak detector

**9.2.3. LTE BAND 12**

**QPSK LTE BAND 12 (10.0MHZ BANDWIDTH)**

Project Number	13548896
Client	Lions
Test Location	N-SAC
Mode	LTE12 / 10MHz / QPSK
Tested by	19289 / 11993
Date	2020-11-20

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0074 (dB/m)	Amp/Cbl (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
704MHz													
1	45.45	-71.85	Pk	16	-31.2	.1	9.7	-77.25	-13	-64.25	0-360	400	H
4	45.85	-61.9	Pk	15.8	-31.2	.1	9.7	-67.5	-13	-54.5	0-360	100	V
5	102.45	-69.91	Pk	17	-30.4	.3	9.7	-73.31	-13	-60.31	0-360	100	V
2	103.1	-71.19	Pk	17.2	-30.4	.3	9.7	-74.39	-13	-61.39	0-360	299	H
3	479.3	-78.64	Pk	23.8	-27.4	.6	9.7	-71.94	-13	-58.94	0-360	199	H
6	532.3	-78.55	Pk	24.1	-27.2	.7	9.7	-71.25	-13	-58.25	0-360	100	V
707.5MHz													
1	45.75	-69.79	Pk	15.9	-31.2	.1	9.7	-75.29	-13	-62.29	0-360	299	H
4	46.05	-62.09	Pk	15.7	-31.2	.1	9.7	-67.79	-13	-54.79	0-360	101	V
5	101.15	-71.12	Pk	16.6	-30.4	.3	9.7	-74.92	-13	-61.92	0-360	101	V
2	102.7	-72.09	Pk	17.1	-30.4	.3	9.7	-75.39	-13	-62.39	0-360	299	H
6	221.15	-72.94	Pk	16.8	-29.1	.5	9.7	-75.04	-13	-62.04	0-360	101	V
3	350	-75.64	Pk	20.4	-28.1	.4	9.7	-73.24	-13	-60.24	0-360	101	H
711MHz													
1	44.65	-71.97	Pk	16.5	-31.2	.1	9.7	-76.87	-13	-63.87	0-360	299	H
4	45.4	-62.13	Pk	16.1	-31.2	.1	9.7	-67.43	-13	-54.43	0-360	101	V
5	101.15	-67.69	Pk	16.6	-30.4	.3	9.7	-71.49	-13	-58.49	0-360	101	V
2	103.5	-69.93	Pk	17.4	-30.4	.3	9.7	-72.93	-13	-59.93	0-360	299	H
6	191.05	-73.2	Pk	17.7	-29.4	.5	9.7	-74.7	-13	-61.7	0-360	101	V
3	355	-76.32	Pk	20.7	-28.2	.4	9.7	-73.72	-13	-60.72	0-360	101	H

Pk - Peak detector



Project Number:	13548896
Client:	Lions
Test Location:	S-SAC
Mode:	LTE12/10MHz/QPSK
Tested by:	11993
Date:	2020-10-29

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
704MHz													
1	1.39898	-45.97	Pk	28.5	-35.1	.9	11.8	-39.87	-13	-26.87	0-360	300	H
2	2.09894	-61.18	Pk	31.9	-34.5	.4	11.8	-51.58	-13	-38.58	0-360	101	H
3	8.62957	-69.17	Pk	36	-27.6	.5	11.8	-48.47	-13	-35.47	0-360	300	H
4	1.39898	-48.57	Pk	28.5	-35.1	.9	11.8	-42.47	-13	-29.47	0-360	300	V
5	4.67429	-66.17	Pk	34.1	-31.7	.3	11.8	-51.67	-13	-38.67	0-360	300	V
6	8.59107	-69.93	Pk	35.9	-27.6	.5	11.8	-49.33	-13	-36.33	0-360	300	V
707.5MHz													
1	1.40598	-49.38	Pk	28.5	-35.1	.9	11.8	-43.28	-13	-30.28	0-360	199	H
2	2.10944	-57.71	Pk	31.9	-34.6	.4	11.8	-48.21	-13	-35.21	0-360	199	H
3	7.18015	-69.08	Pk	35.6	-28.4	.7	11.8	-49.38	-13	-36.38	0-360	199	H
4	1.40598	-54.08	Pk	28.5	-35.1	.9	11.8	-47.98	-13	-34.98	0-360	200	V
5	2.10894	-62.08	Pk	31.9	-34.6	.4	11.8	-52.58	-13	-39.58	0-360	101	V
6	7.61663	-68.41	Pk	35.7	-28	.5	11.8	-48.41	-13	-35.41	0-360	300	V
711MHz													
1	1.41298	-40.83	Pk	28.4	-35.1	.9	11.8	-34.83	-13	-21.83	0-360	101	H
2	2.11944	-57.34	Pk	31.9	-34.6	.4	11.8	-47.84	-13	-34.84	0-360	200	H
3	7.19315	-69.23	Pk	35.6	-28.2	.8	11.8	-49.23	-13	-36.23	0-360	299	H
4	1.41298	-44.11	Pk	28.4	-35.1	.9	11.8	-38.11	-13	-25.11	0-360	299	V
5	2.11944	-59.75	Pk	31.9	-34.6	.4	11.8	-50.25	-13	-37.25	0-360	299	V
6	6.82667	-69.16	Pk	35.7	-28.6	.7	11.8	-49.56	-13	-36.56	0-360	101	V

Pk - Peak detector

**16QAM LTE BAND 12 (10.0MHZ BANDWIDTH)**

Project Number	13548896
Client	Lions
Test Location	N-SAC
Mode	LTE12 / 10MHz/ 16-QAM
Tested by	19289 / 11993
Date	2020-11-20

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0074 (dB/m)	Amp/Cbl (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
704MHz													
5	45.9	-61.69	Pk	15.8	-31.2	.1	9.7	-67.29	-13	-54.29	0-360	101	V
1	45.95	-71.11	Pk	15.7	-31.2	.1	9.7	-76.81	-13	-63.81	0-360	300	H
2	61.05	-73.49	Pk	13.6	-30.9	.2	9.7	-80.89	-13	-67.89	0-360	300	H
6	61.85	-68.6	Pk	13.7	-31	.2	9.7	-76	-13	-63	0-360	101	V
7	101.1	-68.61	Pk	16.6	-30.4	.3	9.7	-72.41	-13	-59.41	0-360	101	V
3	103	-69.29	Pk	17.2	-30.4	.3	9.7	-72.49	-13	-59.49	0-360	300	H
4	495.75	-77.26	Pk	23.8	-27.3	.7	9.7	-70.36	-13	-57.36	0-360	200	H
8	560.25	-78.06	Pk	24.5	-27.1	.8	9.7	-70.16	-13	-57.16	0-360	99	V
707.5MHz													
1	44.95	-72.2	Pk	16.3	-31.2	.1	9.7	-77.3	-13	-64.3	0-360	300	H
4	45.5	-61.93	Pk	16	-31.2	.1	9.7	-67.33	-13	-54.33	0-360	100	V
5	102.55	-68.2	Pk	17.1	-30.4	.3	9.7	-71.5	-13	-58.5	0-360	100	V
2	102.9	-69.4	Pk	17.2	-30.4	.3	9.7	-72.6	-13	-59.6	0-360	300	H
6	197.8	-76.42	Pk	18.9	-29.4	.5	9.7	-76.72	-13	-63.72	0-360	100	V
3	513.4	-77.61	Pk	23.8	-27.2	.7	9.7	-70.61	-13	-57.61	0-360	200	H
711MHz													
1	45.05	-72.17	Pk	16.3	-31.2	.1	9.7	-77.27	-13	-64.27	0-360	300	H
4	45.6	-61.6	Pk	15.9	-31.2	.1	9.7	-67.1	-13	-54.1	0-360	100	V
2	102.2	-69.75	Pk	17	-30.4	.3	9.7	-73.15	-13	-60.15	0-360	300	H
5	102.25	-68.39	Pk	17	-30.4	.3	9.7	-71.79	-13	-58.79	0-360	100	V
6	196.75	-77.05	Pk	18.7	-29.4	.5	9.7	-77.55	-13	-64.55	0-360	100	V
3	487.1	-77.7	Pk	23.8	-27.3	.6	9.7	-70.9	-13	-57.9	0-360	99	H

Pk - Peak detector

Project Number:	13548896
Client:	Lions
Test Location:	S-SAC
Mode:	LTE12/10MHz/16-QAM
Tested by:	11993
Date:	2020-11-02

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
704MHz													
1	1.39898	-50.95	Pk	28.5	-35.1	.9	11.8	-44.85	-13	-31.85	0-360	101	H
2	4.29232	-64.93	Pk	33.4	-32.4	.3	11.8	-51.83	-13	-38.83	0-360	101	H
3	7.77562	-69.28	Pk	35.7	-27.8	.5	11.8	-49.08	-13	-36.08	0-360	300	H
4	1.39848	-58.86	Pk	28.5	-35.1	.9	11.8	-52.76	-13	-39.76	0-360	101	V
5	5.32626	-66.48	Pk	34.4	-30.6	.4	11.8	-50.48	-13	-37.48	0-360	200	V
6	6.51819	-68.29	Pk	35.6	-29.3	.6	11.8	-49.59	-13	-36.59	0-360	101	V
707.5MHz													
1	1.40598	-52.41	Pk	28.5	-35.1	.9	11.8	-46.31	-13	-33.31	0-360	101	H
2	2.10944	-60.7	Pk	31.9	-34.6	.4	11.8	-51.2	-13	-38.2	0-360	199	H
3	9.30453	-69.96	Pk	36.3	-26.8	.6	11.8	-48.06	-13	-35.06	0-360	101	H
4	1.40598	-56.23	Pk	28.5	-35.1	.9	11.8	-50.13	-13	-37.13	0-360	300	V
5	3.24262	-63.91	Pk	33.1	-33.5	.5	11.8	-52.01	-13	-39.01	0-360	200	V
6	8.51408	-69.84	Pk	35.9	-27.4	.5	11.8	-49.04	-13	-36.04	0-360	200	V
711MHz													
1	1.41298	-44.56	Pk	28.4	-35.1	.9	11.8	-38.56	-13	-25.56	0-360	300	H
2	1.42998	-57.29	Pk	28.3	-35.1	.8	11.8	-51.49	-13	-38.49	0-360	200	H
3	2.11944	-59.33	Pk	31.9	-34.6	.4	11.8	-49.83	-13	-36.83	0-360	200	H
4	9.15904	-69.09	Pk	36.3	-27.1	.6	11.8	-47.49	-13	-34.49	0-360	300	H
5	1.41298	-52.37	Pk	28.4	-35.1	.9	11.8	-46.37	-13	-33.37	0-360	300	V
6	2.11994	-61.84	Pk	31.9	-34.6	.4	11.8	-52.34	-13	-39.34	0-360	101	V
7	8.75657	-69.66	Pk	36.1	-27.4	.5	11.8	-48.66	-13	-35.66	0-360	200	V

Pk - Peak detector

**9.2.4. LTE BAND 26 (FCC PART 90S)**

**QPSK LTE BAND 26 (1.4MHZ BANDWIDTH)**

Project Number	13548896
Client	Lions
Test Location	S-SAC
Mode	LTE26, 1.4MHz, QPSK
Tested by	19289 / 11993
Date	2020-12-10

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0074 (dB/m)	Amp/Cbl (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
817.7MHz													
4	32.85	-73.19	Pk	25.1	-31.5	.1	9.7	-69.79	-13	-56.79	0-360	101	V
5	62.05	-68.55	Pk	13.9	-31	.2	9.7	-75.75	-13	-62.75	0-360	101	V
6	71.55	-70.23	Pk	14.4	-30.9	.2	9.7	-76.83	-13	-63.83	0-360	101	V
1	98.85	-75.09	Pk	16.1	-30.6	.3	9.7	-79.59	-13	-66.59	0-360	299	H
2	221.05	-74.04	Pk	16.9	-29.4	.5	9.7	-76.34	-13	-63.34	0-360	101	H
3	351.9	-74.58	Pk	20.6	-28.5	.4	9.7	-72.38	-13	-59.38	0-360	101	H
823.3MHz													
4	32.35	-74.54	Pk	25.5	-31.5	.1	9.7	-70.74	-13	-57.74	0-360	101	V
5	63.2	-67.97	Pk	13.9	-31.1	.2	9.7	-75.27	-13	-62.27	0-360	101	V
1	71.35	-75.45	Pk	14.4	-30.9	.2	9.7	-82.05	-13	-69.05	0-360	199	H
6	71.5	-69.84	Pk	14.4	-30.9	.2	9.7	-76.44	-13	-63.44	0-360	101	V
2	199.9	-78.35	Pk	18.9	-29.6	.5	9.7	-78.85	-13	-65.85	0-360	100	H
3	346.9	-75.8	Pk	20.4	-28.5	.4	9.7	-73.8	-13	-60.8	0-360	101	H

Pk - Peak detector

Project Number	13548896
Client	Lions
Test Location	S-SAC
Mode	LTE26, 1.4MHz, QPSK
Tested by	19289 / 11993
Date	2020-12-10

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0074 (dB/m)	Amp/Cbl (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
817.7MHz													
1	1.63446	-56.84	Pk	28.6	-34.9	.5	11.8	-50.84	-13	-37.84	0-360	200	H
4	1.63446	-61.76	Pk	28.6	-34.9	.5	11.8	-55.76	-13	-42.76	0-360	101	V
5	2.41692	-56.66	Pk	32.3	-34.3	.4	11.8	-46.46	-13	-33.46	0-360	200	V
6	2.45142	-52.84	Pk	32.5	-34.3	.4	11.8	-42.44	-13	-29.44	0-360	101	V
2	2.45192	-51.59	Pk	32.5	-34.3	.4	11.8	-41.19	-13	-28.19	0-360	200	H
3	2.47992	-59.03	Pk	32.4	-34.2	.4	11.8	-48.63	-13	-35.63	0-360	300	H
823.3MHz													
1	1.64596	-52.93	Pk	28.7	-34.9	.5	11.8	-46.83	-13	-33.83	0-360	200	H
4	1.64596	-56.04	Pk	28.7	-34.9	.5	11.8	-49.94	-13	-36.94	0-360	299	V
5	2.40142	-59.3	Pk	32.1	-34.3	.4	11.8	-49.3	-13	-36.3	0-360	200	V
2	2.46842	-48.17	Pk	32.5	-34.2	.4	11.8	-37.67	-13	-24.67	0-360	101	H
6	2.46842	-50.19	Pk	32.5	-34.2	.4	11.8	-39.69	-13	-26.69	0-360	200	V
3	2.47942	-59.45	Pk	32.4	-34.2	.4	11.8	-49.05	-13	-36.05	0-360	299	H

Pk - Peak detector

**16QAM LTE BAND 26 (1.4MHZ BANDWIDTH)**

Project Number	13548896
Client	Lions
Test Location	S-SAC
Mode	LTE26, 1.4MHz, 16-QAM
Tested by	19289 / 11993
Date	2020-12-10

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0074 (dB/m)	Amp/Cbl (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
817.7MHz													
4	33.15	-73.16	Pk	24.9	-31.5	.1	9.7	-69.96	-13	-56.96	0-360	101	V
5	62.15	-68.54	Pk	13.9	-31	.2	9.7	-75.74	-13	-62.74	0-360	101	V
6	71.6	-70.89	Pk	14.4	-30.9	.2	9.7	-77.49	-13	-64.49	0-360	101	V
1	98.2	-74.02	Pk	15.9	-30.6	.3	9.7	-78.72	-13	-65.72	0-360	299	H
2	221.1	-76.03	Pk	16.9	-29.4	.5	9.7	-78.33	-13	-65.33	0-360	200	H
3	456.4	-76.27	Pk	23.1	-28	.6	9.7	-70.87	-13	-57.87	0-360	101	H
823.3MHz													
4	32.95	-73.22	Pk	25	-31.5	.1	9.7	-69.92	-13	-56.92	0-360	101	V
5	63.35	-68.72	Pk	13.9	-31.1	.2	9.7	-76.02	-13	-63.02	0-360	101	V
1	71.65	-76.9	Pk	14.4	-30.9	.2	9.7	-83.5	-13	-70.5	0-360	99	H
6	97.75	-74.9	Pk	15.9	-30.6	.3	9.7	-79.6	-13	-66.6	0-360	101	V
2	118.05	-76.76	Pk	19.9	-30.4	.3	9.7	-77.26	-13	-64.26	0-360	400	H
3	221.05	-74.52	Pk	16.9	-29.4	.5	9.7	-76.82	-13	-63.82	0-360	200	H

Pk - Peak detector

Project Number	13548896
Client	Lions
Test Location	S-SAC
Mode	LTE26, 1.4MHz, 16-QAM
Tested by	19289 / 11993
Date	2020-12-10

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0074 (dB/m)	Amp/Cbl (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
817.7MHz													
1	1.63446	-59.79	Pk	28.6	-34.9	.5	11.8	-53.79	-13	-40.79	0-360	200	H
4	2.41842	-57.77	Pk	32.3	-34.3	.4	11.8	-47.57	-13	-34.57	0-360	200	V
2	2.41892	-60.71	Pk	32.3	-34.3	.4	11.8	-50.51	-13	-37.51	0-360	300	H
3	2.45142	-50.49	Pk	32.5	-34.3	.4	11.8	-40.09	-13	-27.09	0-360	101	H
5	2.45192	-50.67	Pk	32.5	-34.3	.4	11.8	-40.27	-13	-27.27	0-360	300	V
6	5.19776	-64.36	Pk	34.3	-31.5	.4	11.8	-49.36	-13	-36.36	0-360	300	V
823.3MHz													
1	1.64546	-54.55	Pk	28.7	-34.9	.5	11.8	-48.45	-13	-35.45	0-360	300	H
3	1.64546	-58.54	Pk	28.7	-34.9	.5	11.8	-52.44	-13	-39.44	0-360	101	V
4	2.42592	-58.17	Pk	32.3	-34.4	.4	11.8	-48.07	-13	-35.07	0-360	300	V
2	2.46842	-50.6	Pk	32.5	-34.2	.4	11.8	-40.1	-13	-27.1	0-360	300	H
5	2.46842	-52.65	Pk	32.5	-34.2	.4	11.8	-42.15	-13	-29.15	0-360	101	V
6	5.32226	-65	Pk	34.4	-30.7	.4	11.8	-49.1	-13	-36.1	0-360	200	V

Pk - Peak detector

**9.2.5. LTE BAND 26 (FCC PART 22)**

**QPSK LTE BAND 26 (15.0MHZ BANDWIDTH)**

Project Number	13548896
Client	Lions
Test Location	N-SAC
Mode	LTE26/15MHz/QPSK
Tested by	23567 / 11993
Date	2020-11-19 and 2020-12-09

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0074 (dB/m)	Amp/Cbl (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
831.5MHz													
1	35.7	-70.45	Pk	22.8	-31.3	.1	9.7	-69.15	-13	-56.15	0-360	99	H
4	49.3	-57.64	Pk	14.2	-31.1	.1	9.7	-64.74	-13	-51.74	0-360	101	V
2	62.1	-66.97	Pk	13.7	-31	.2	9.7	-74.37	-13	-61.37	0-360	299	H
5	109.4	-70.95	Pk	18.6	-30.3	.3	9.7	-72.65	-13	-59.65	0-360	101	V
3	198.15	-73.06	Pk	18.9	-29.3	.5	9.7	-73.26	-13	-60.26	0-360	99	H
6	254.65	-72.38	Pk	17.7	-28.9	.4	9.7	-73.48	-13	-60.48	0-360	100	V
836.5MHz													
1	61.45	-67.48	Pk	13.6	-31	.2	9.7	-74.98	-13	-61.98	0-360	399	H
4	61.85	-61.3	Pk	13.7	-31	.2	9.7	-68.7	-13	-55.7	0-360	101	V
5	114.7	-68.41	Pk	19.4	-30.2	.3	9.7	-69.21	-13	-56.21	0-360	101	V
2	115.15	-73.63	Pk	19.4	-30.2	.3	9.7	-74.43	-13	-61.43	0-360	299	H
3	490.85	-77.49	Pk	23.8	-27.2	.6	9.7	-70.59	-13	-57.59	0-360	399	H
6	573.85	-77.23	Pk	24.7	-27.2	.9	9.7	-69.13	-13	-56.13	0-360	101	V
841.5MHz													
4	36.25	-64.64	Pk	22.4	-31.3	.1	9.7	-63.74	-13	-50.74	0-360	100	V
1	49.4	-61.95	Pk	14.2	-31.1	.1	9.7	-69.05	-13	-56.05	0-360	199	H
5	109.1	-69.93	Pk	18.5	-30.3	.3	9.7	-71.73	-13	-58.73	0-360	100	V
2	202.1	-74.41	Pk	18.2	-29.4	.5	9.7	-75.41	-13	-62.41	0-360	99	H
3	353.45	-75.94	Pk	20.6	-28.1	.4	9.7	-73.34	-13	-60.34	0-360	200	H
6	420.7	-76.66	Pk	22.4	-27.8	.5	9.7	-71.86	-13	-58.86	0-360	199	V

Pk - Peak detector

Project Number:	13548896
Client:	Lions
Test Location:	S-SAC
Mode:	LTE26/821.5/15MHz/QPSK
Tested by:	11993
Date:	2020-10-30 and 2020-12-09

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
831.5MHz													
1	1.64946	-53	Pk	28.7	-34.8	.5	11.8	-46.8	-13	-33.8	0-360	101	H
2	2.47442	-59.01	Pk	32.5	-34.2	.4	11.8	-48.51	-13	-35.51	0-360	200	H
3	6.52419	-68.08	Pk	35.6	-29.3	.6	11.8	-49.38	-13	-36.38	0-360	101	H
4	1.64946	-54.99	Pk	28.7	-34.8	.5	11.8	-48.79	-13	-35.79	0-360	101	V
5	2.47392	-59.53	Pk	32.5	-34.2	.4	11.8	-49.03	-13	-36.03	0-360	101	V
6	9.29754	-70.07	Pk	36.3	-26.8	.6	11.8	-48.17	-13	-35.17	0-360	200	V
836.5MHz													
1	1.66046	-54.79	Pk	28.9	-34.9	.5	11.8	-48.49	-13	-35.49	0-360	299	H
4	1.66046	-54.23	Pk	28.9	-34.9	.5	11.8	-47.93	-13	-34.93	0-360	299	V
5	2.48992	-61.53	Pk	32.4	-34.2	.4	11.8	-51.13	-13	-38.13	0-360	101	V
2	2.49042	-58.97	Pk	32.4	-34.2	.4	11.8	-48.57	-13	-35.57	0-360	200	H
3	5.11327	-65.77	Pk	34.1	-31.2	.3	11.8	-50.77	-13	-37.77	0-360	299	H
6	5.85023	-68.7	Pk	34.8	-30.1	.5	11.8	-51.7	-13	-38.7	0-360	299	V
841.5MHz													
1	1.66946	-51.74	Pk	29	-34.9	.5	11.8	-45.34	-13	-32.34	0-360	101	H
2	2.50442	-53.76	Pk	32.4	-34.3	.4	11.8	-43.46	-13	-30.46	0-360	300	H
3	3.65135	-64.34	Pk	33.1	-33	.5	11.8	-51.94	-13	-38.94	0-360	101	H
4	1.66946	-50.79	Pk	29	-34.9	.5	11.8	-44.39	-13	-31.39	0-360	101	V
5	2.50492	-57.63	Pk	32.4	-34.3	.4	11.8	-47.33	-13	-34.33	0-360	300	V
6	9.45928	-70.05	Pk	36.5	-26.9	.6	11.8	-48.05	-13	-35.05	0-360	101	V

Pk - Peak detector

**16QAM LTE BAND 26 (15.0MHZ BANDWIDTH)**

Project Number	13548896
Client	Lions
Test Location	N-SAC
Mode	LTE26/15MHz/16-QAM
Tested by	23567 / 11993
Date	2020-11-19 and 2020-12-09

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0074 (dB/m)	Amp/Cbl (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
831.5MHz													
1	35.9	-70.23	Pk	22.7	-31.3	.1	9.7	-69.03	-13	-56.03	0-360	99	H
4	36.1	-64.88	Pk	22.5	-31.3	.1	9.7	-63.88	-13	-50.88	0-360	101	V
5	47.45	-57.82	Pk	15	-31.1	.1	9.7	-64.12	-13	-51.12	0-360	101	V
3	49.25	-61.77	Pk	14.2	-31.1	.1	9.7	-68.87	-13	-55.87	0-360	199	H
6	108.5	-71.91	Pk	18.4	-30.3	.3	9.7	-73.81	-13	-60.81	0-360	101	V
2	199.65	-73.5	Pk	19	-29.3	.5	9.7	-73.6	-13	-60.6	0-360	99	H
836.5MHz													
1	61.5	-67.55	Pk	13.7	-31	.2	9.7	-74.95	-13	-61.95	0-360	400	H
4	61.75	-61.51	Pk	13.7	-31	.2	9.7	-68.91	-13	-55.91	0-360	101	V
5	115.9	-68.8	Pk	19.6	-30.2	.3	9.7	-69.4	-13	-56.4	0-360	101	V
2	116.55	-76.55	Pk	19.7	-30.3	.3	9.7	-77.15	-13	-64.15	0-360	299	H
3	451.9	-77.57	Pk	22.9	-27.6	.5	9.7	-72.07	-13	-59.07	0-360	300	H
6	600.95	-77.01	Pk	24.5	-26.8	1.2	9.7	-68.41	-13	-55.41	0-360	101	V
841.5MHz													
1	35.8	-70.03	Pk	22.8	-31.3	.1	9.7	-68.73	-13	-55.73	0-360	99	H
4	36.05	-65.81	Pk	22.6	-31.3	.1	9.7	-64.71	-13	-51.71	0-360	100	V
5	47.6	-57.5	Pk	14.9	-31.1	.1	9.7	-63.9	-13	-50.9	0-360	100	V
3	48.2	-62.57	Pk	14.6	-31.1	.1	9.7	-69.27	-13	-56.27	0-360	200	H
6	108.75	-71.2	Pk	18.5	-30.3	.3	9.7	-73	-13	-60	0-360	100	V
2	198.05	-74.42	Pk	18.9	-29.3	.5	9.7	-74.62	-13	-61.62	0-360	99	H

Pk - Peak detector



Project Number	13548896
Client:	Lions
Test Location:	S-SAC
Mode:	LTE26/15MHz/16-QAM
Tested by:	11993
Date:	2020-11-02 and 2020-12-09

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
831.5MHz													
1	1.64996	-52.75	Pk	28.7	-34.8	.5	11.8	-46.55	-13	-33.55	0-360	199	H
2	2.47442	-57.95	Pk	32.5	-34.2	.4	11.8	-47.45	-13	-34.45	0-360	199	H
3	6.94567	-69.66	Pk	35.7	-28.7	.8	11.8	-50.06	-13	-37.06	0-360	101	H
4	1.64946	-56.81	Pk	28.7	-34.8	.5	11.8	-50.61	-13	-37.61	0-360	200	V
5	2.47442	-59.8	Pk	32.5	-34.2	.4	11.8	-49.3	-13	-36.3	0-360	200	V
6	9.29454	-70.13	Pk	36.3	-26.8	.6	11.8	-48.23	-13	-35.23	0-360	200	V
836.5MHz													
1	1.65946	-54.93	Pk	28.8	-34.9	.5	11.8	-48.73	-13	-35.73	0-360	299	H
4	1.65996	-54.89	Pk	28.9	-34.9	.5	11.8	-48.59	-13	-35.59	0-360	299	V
5	2.41442	-61.33	Pk	32.2	-34.3	.4	11.8	-51.23	-13	-38.23	0-360	200	V
2	2.41592	-59.98	Pk	32.3	-34.3	.4	11.8	-49.78	-13	-36.78	0-360	299	H
6	3.84934	-63.1	Pk	33.3	-32.9	.4	11.8	-50.5	-13	-37.5	0-360	101	V
3	3.85334	-64.57	Pk	33.3	-33	.4	11.8	-52.07	-13	-39.07	0-360	299	H
841.5MHz													
1	1.66946	-54.58	Pk	29	-34.9	.5	11.8	-48.18	-13	-35.18	0-360	300	H
2	2.50442	-55.19	Pk	32.4	-34.3	.4	11.8	-44.89	-13	-31.89	0-360	101	H
3	9.31553	-69.11	Pk	36.3	-26.7	.6	11.8	-47.11	-13	-34.11	0-360	199	H
4	1.66946	-56.26	Pk	29	-34.9	.5	11.8	-49.86	-13	-36.86	0-360	101	V
5	2.50442	-55.77	Pk	32.4	-34.3	.4	11.8	-45.47	-13	-32.47	0-360	300	V
6	7.33415	-68.72	Pk	35.6	-28.2	.7	11.8	-48.82	-13	-35.82	0-360	200	V

Pk - Peak detector

**9.2.6. LTE BAND 41 (FCC)**

**QPSK LTE BAND 41 (20.0MHZ BANDWIDTH)**

Project Number	13548896
Client	Lions
Test Location	N-SAC
Mode	LTE41/20MHz/QPSK
Tested by	19289 / 11993
Date	2020-11-11

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0074 (dB/m)	Amp/Cbl (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2506MHz													
1	34.1	-76.24	Pk	24	-31.3	.1	9.7	-73.74	-25	-48.74	0-360	99	H
5	47.7	-69.23	Pk	14.9	-31.1	.1	9.7	-75.63	-25	-50.63	0-360	100	V
6	59.85	-68.92	Pk	13.5	-30.9	.1	9.7	-76.52	-25	-51.52	0-360	100	V
2	60.25	-73.13	Pk	13.5	-30.9	.1	9.7	-80.73	-25	-55.73	0-360	199	H
7	109.55	-67.31	Pk	18.6	-30.2	.2	9.7	-69.01	-25	-44.01	0-360	100	V
3	110.05	-71.72	Pk	18.7	-30.2	.2	9.7	-73.32	-25	-48.32	0-360	299	H
4	469.4	-77.53	Pk	23.5	-27.1	.4	9.7	-71.03	-25	-46.03	0-360	299	H
8	615.3	-76.49	Pk	25.1	-26.4	.5	9.7	-67.59	-25	-42.59	0-360	99	V
2593MHz													
1	34.75	-77.7	Pk	23.6	-31.3	.1	9.7	-75.6	-25	-50.6	0-360	399	H
2	47.55	-74.48	Pk	14.9	-31.1	.1	9.7	-80.88	-25	-55.88	0-360	199	H
5	48.65	-69.6	Pk	14.4	-31.1	.1	9.7	-76.5	-25	-51.5	0-360	100	V
6	60.65	-68.75	Pk	13.6	-30.9	.1	9.7	-76.25	-25	-51.25	0-360	100	V
3	108.8	-71.24	Pk	18.5	-30.2	.2	9.7	-73.04	-25	-48.04	0-360	300	H
7	109.1	-66.91	Pk	18.5	-30.2	.2	9.7	-68.71	-25	-43.71	0-360	100	V
4	529.3	-78.02	Pk	24.1	-26.8	.5	9.7	-70.52	-25	-45.52	0-360	299	H
8	746.6	-77.6	Pk	26.8	-25.8	.6	9.7	-66.3	-25	-41.3	0-360	299	V
2680MHz													
1	47.55	-74.86	Pk	14.9	-31.1	.1	9.7	-81.26	-25	-56.26	0-360	399	H
5	48.95	-69.22	Pk	14.3	-31.1	.1	9.7	-76.22	-25	-51.22	0-360	100	V
2	60.65	-74.55	Pk	13.6	-30.9	.1	9.7	-82.05	-25	-57.05	0-360	399	H
6	61.2	-68.57	Pk	13.6	-30.9	.1	9.7	-76.07	-25	-51.07	0-360	100	V
3	109.1	-71.47	Pk	18.5	-30.2	.2	9.7	-73.27	-25	-48.27	0-360	299	H
7	109.15	-66.87	Pk	18.5	-30.2	.2	9.7	-68.67	-25	-43.67	0-360	100	V
8	321.1	-77.16	Pk	20	-28.1	.3	9.7	-75.26	-25	-50.26	0-360	99	V
4	507.9	-76.68	Pk	23.7	-27	.5	9.7	-69.78	-25	-44.78	0-360	199	H

Pk - Peak detector

Project Number:	13548896
Client:	Lions
Test Location:	S-SAC
Mode:	LTE41/20MHz/QPSK
Tested by:	11993
Date:	2020-11-03

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2506MHz													
1	4.99396	-58.9	Pk	33.9	-31.5	.7	11.8	-44	-25	-19	0-360	101	H
2	5.02646	-62.21	Pk	33.9	-31.8	.7	11.8	-47.61	-25	-22.61	0-360	299	H
3	7.49087	-65.71	Pk	35.6	-28.1	.6	11.8	-45.81	-25	-20.81	0-360	101	H
4	9.98828	-70.08	Pk	37.1	-26.2	.7	11.8	-46.68	-25	-21.68	0-360	101	H
5	17.47901	-67.72	Pk	41.1	-24.2	1.3	11.8	-37.72	-25	-12.72	0-360	199	H
6	4.99396	-57.87	Pk	33.9	-31.5	.7	11.8	-42.97	-25	-17.97	0-360	101	V
7	5.01896	-61.93	Pk	33.9	-31.8	.7	11.8	-47.33	-25	-22.33	0-360	101	V
8	9.98778	-68.53	Pk	37.1	-26.2	.7	11.8	-45.13	-25	-20.13	0-360	101	V
2593MHz													
1	5.16846	-61.9	Pk	34.2	-31.2	.7	11.8	-46.4	-25	-21.4	0-360	200	H
2	10.33627	-70.08	Pk	37.5	-25.6	.6	11.8	-45.78	-25	-20.78	0-360	200	H
3	17.63901	-72.89	Pk	41	-22.5	1.3	11.8	-41.29	-25	-16.29	0-360	101	H
4	5.16846	-57.98	Pk	34.2	-31.2	.7	11.8	-42.48	-25	-17.48	0-360	200	V
5	10.67276	-70.93	Pk	37.9	-25.1	.6	11.8	-45.73	-25	-20.73	0-360	101	V
6	17.39402	-71.72	Pk	41.2	-23.8	1.2	11.8	-41.32	-25	-16.32	0-360	300	V
2680MHz													
1	5.34245	-61.94	Pk	34.5	-30.6	.7	11.8	-45.54	-25	-20.54	0-360	101	H
2	8.01286	-65.38	Pk	35.8	-27.6	.6	11.8	-44.78	-25	-19.78	0-360	101	H
3	10.68426	-67.93	Pk	37.9	-25	.6	11.8	-42.63	-25	-17.63	0-360	101	H
4	5.34195	-61.35	Pk	34.5	-30.6	.7	11.8	-44.95	-25	-19.95	0-360	200	V
5	8.01336	-67.74	Pk	35.8	-27.6	.6	11.8	-47.14	-25	-22.14	0-360	101	V
6	10.68426	-65.6	Pk	37.9	-25	.6	11.8	-40.3	-25	-15.3	0-360	101	V

Pk - Peak detector

**16QAM LTE BAND 41 (20.0MHZ BANDWIDTH)**

Project Number	13548896
Client	Lions
Test Location	N-SAC
Mode	LTE41/20MHz/16-QAM
Tested by	19289 / 11993
Date	2020-11-11

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0074 (dB/m)	Amp/Cbl (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2506MHz													
1	47.75	-74.36	Pk	14.8	-31.1	.1	9.7	-80.86	-25	-55.86	0-360	400	H
5	48.95	-69.75	Pk	14.3	-31.1	.1	9.7	-76.75	-25	-51.75	0-360	100	V
2	59.4	-73.6	Pk	13.5	-30.9	.1	9.7	-81.2	-25	-56.2	0-360	299	H
6	59.8	-68.94	Pk	13.5	-30.9	.1	9.7	-76.54	-25	-51.54	0-360	100	V
7	109.2	-67.26	Pk	18.5	-30.2	.2	9.7	-69.06	-25	-44.06	0-360	100	V
3	109.7	-71.39	Pk	18.6	-30.2	.2	9.7	-73.09	-25	-48.09	0-360	299	H
4	482.8	-77.32	Pk	23.8	-27.2	.4	9.7	-70.62	-25	-45.62	0-360	200	H
8	606.15	-78.95	Pk	24.6	-26.1	.5	9.7	-70.25	-25	-45.25	0-360	299	V
2593MHz													
1	47.55	-74.78	Pk	14.9	-31.1	.1	9.7	-81.18	-25	-56.18	0-360	199	H
5	48.4	-68.95	Pk	14.5	-31.1	.1	9.7	-75.75	-25	-50.75	0-360	100	V
6	60.05	-68.77	Pk	13.5	-30.9	.1	9.7	-76.37	-25	-48.37	0-360	100	V
2	60.1	-74.65	Pk	13.5	-30.9	.1	9.7	-82.25	-25	-57.25	0-360	399	H
7	109.95	-67.08	Pk	18.7	-30.2	.2	9.7	-68.68	-25	-43.68	0-360	100	V
3	110.4	-71.83	Pk	18.7	-30.2	.2	9.7	-73.43	-25	-48.43	0-360	299	H
4	529.25	-77.48	Pk	24.1	-26.8	.5	9.7	-69.98	-25	-43.98	0-360	199	H
8	653.5	-78.45	Pk	25.9	-26.2	.5	9.7	-68.55	-25	-43.55	0-360	299	V
2680MHz													
1	47.5	-75.96	Pk	15	-31.1	.1	9.7	-82.26	-25	-57.26	0-360	300	H
5	48.4	-69.92	Pk	14.5	-31.1	.1	9.7	-76.72	-25	-51.72	0-360	100	V
6	60.45	-68.64	Pk	13.5	-30.9	.1	9.7	-76.24	-25	-51.24	0-360	100	V
2	62.95	-74.25	Pk	13.8	-30.9	.1	9.7	-81.55	-25	-56.55	0-360	200	H
7	109.05	-67.59	Pk	18.5	-30.2	.2	9.7	-69.39	-25	-44.39	0-360	100	V
3	110	-72.34	Pk	18.7	-30.2	.2	9.7	-73.94	-25	-48.94	0-360	300	H
4	490.15	-77.83	Pk	23.8	-27	.4	9.7	-70.93	-25	-45.93	0-360	199	H
8	655.35	-78.71	Pk	25.9	-26.1	.5	9.7	-68.71	-25	-43.71	0-360	99	V

Pk - Peak detector

Project Number:	13548896
Client:	Lions
Test Location:	S-SAC
Mode:	LTE41/20MHz/16-QAM
Tested by:	11993
Date:	2020-11-03

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2506MHz													
1	4.99396	-58.7	Pk	33.9	-31.5	.7	11.8	-43.8	-25	-18.8	0-360	200	H
2	7.49137	-64.08	Pk	35.6	-28.1	.6	11.8	-44.18	-25	-19.18	0-360	300	H
3	9.98828	-68.24	Pk	37.1	-26.2	.7	11.8	-44.84	-25	-19.84	0-360	300	H
4	17.48001	-69.2	Pk	41.1	-24.2	1.3	11.8	-39.2	-25	-14.2	0-360	200	H
5	4.99396	-57.99	Pk	33.9	-31.5	.7	11.8	-43.09	-25	-18.09	0-360	300	V
6	9.98878	-68.59	Pk	37.1	-26.2	.7	11.8	-45.19	-25	-20.19	0-360	101	V
7	17.47951	-67.35	Pk	41.1	-24.2	1.3	11.8	-37.35	-25	-12.35	0-360	101	V
2593MHz													
1	5.16796	-61.65	Pk	34.2	-31.2	.7	11.8	-46.15	-25	-21.15	0-360	300	H
2	10.33627	-69.13	Pk	37.5	-25.6	.6	11.8	-44.83	-25	-19.83	0-360	200	H
3	16.93553	-71.24	Pk	42	-24.8	1	11.8	-41.24	-25	-16.24	0-360	200	H
4	5.16796	-61.14	Pk	34.2	-31.2	.7	11.8	-45.64	-25	-20.64	0-360	200	V
5	10.33627	-70.9	Pk	37.5	-25.6	.6	11.8	-46.6	-25	-21.6	0-360	101	V
6	16.62705	-71.74	Pk	41.7	-24.4	.9	11.8	-41.74	-25	-16.74	0-360	101	V
2680MHz													
1	5.34195	-62	Pk	34.5	-30.6	.7	11.8	-45.6	-25	-20.6	0-360	200	H
2	8.01286	-61.57	Pk	35.8	-27.6	.6	11.8	-40.97	-25	-15.97	0-360	101	H
3	10.68426	-62.99	Pk	37.9	-25	.6	11.8	-37.69	-25	-12.69	0-360	101	H
4	5.34245	-60.38	Pk	34.5	-30.6	.7	11.8	-43.98	-25	-18.98	0-360	101	V
5	8.01336	-68.74	Pk	35.8	-27.6	.6	11.8	-48.14	-25	-23.14	0-360	101	V
6	10.68426	-64.68	Pk	37.9	-25	.6	11.8	-39.38	-25	-14.38	0-360	101	V

Pk - Peak detector

**9.2.7. LTE BAND 66**

**QPSK LTE BAND 66 (20.0MHZ BANDWIDTH)**

Project Number	13548896
Client	Lions
Test Location	N-SAC
Mode	LTE66/20MHz/QPSK
Tested by	19289 / 11993
Date	2020-11-12

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0074 (dB/m)	Amp/Cbl (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1720MHz													
5	30.3	-71.44	Pk	26.7	-31.4	.1	9.7	-66.34	-13	-53.34	0-360	100	V
1	60.95	-70.38	Pk	13.6	-30.9	.1	9.7	-77.88	-13	-64.88	0-360	400	H
6	60.95	-64.89	Pk	13.6	-30.9	.1	9.7	-72.39	-13	-59.39	0-360	100	V
7	112.1	-67.7	Pk	19	-30.2	.2	9.7	-69	-13	-56	0-360	100	V
2	113	-73.41	Pk	19.1	-30.1	.2	9.7	-74.51	-13	-61.51	0-360	299	H
3	331.35	-74.98	Pk	20.1	-28.1	.3	9.7	-72.98	-13	-59.98	0-360	99	H
8	336.15	-74.94	Pk	20.1	-28.2	.3	9.7	-73.04	-13	-60.04	0-360	100	V
9	583	-77.03	Pk	24.5	-26.8	.5	9.7	-69.13	-13	-56.13	0-360	100	V
4	809.1	-77.49	Pk	27.7	-25.2	.6	9.7	-64.69	-13	-51.69	0-360	99	H
1745MHz													
5	31	-73.04	Pk	26.3	-31.4	.1	9.7	-68.34	-13	-55.34	0-360	100	V
6	60.25	-64.79	Pk	13.5	-30.9	.1	9.7	-72.39	-13	-59.39	0-360	100	V
1	60.5	-69.69	Pk	13.6	-30.9	.1	9.7	-77.19	-13	-64.19	0-360	400	H
7	111.75	-68.1	Pk	19	-30.2	.2	9.7	-69.4	-13	-56.4	0-360	100	V
2	113.2	-74.3	Pk	19.1	-30.1	.2	9.7	-75.4	-13	-62.4	0-360	200	H
8	327.2	-75.18	Pk	20.1	-28.2	.3	9.7	-73.28	-13	-60.28	0-360	99	V
3	332	-75.36	Pk	20.1	-28.1	.3	9.7	-73.36	-13	-60.36	0-360	99	H
4	483	-77.84	Pk	23.8	-27.2	.4	9.7	-71.14	-13	-58.14	0-360	99	H
9	641	-78.07	Pk	25.9	-26.3	.5	9.7	-68.27	-13	-55.27	0-360	99	V
1770MHz													
1	45.35	-58.25	Pk	16.1	-31.1	.1	9.7	-63.45	-13	-50.45	0-360	100	V
4	46.85	-71.42	Pk	15.3	-31.1	.1	9.7	-77.42	-13	-64.42	0-360	400	H
5	103.85	-71.8	Pk	17.5	-30.2	.2	9.7	-74.6	-13	-61.6	0-360	299	H
2	104.35	-70.55	Pk	17.6	-30.2	.2	9.7	-73.25	-13	-60.25	0-360	100	V
3	520.05	-75.82	Pk	23.9	-26.9	.5	9.7	-68.62	-13	-55.62	0-360	101	V
6	953.45	-78.66	Pk	29.1	-23.6	.7	9.7	-62.76	-13	-49.76	0-360	199	H

Pk - Peak detector

Client:	Lions
Test Location:	S-SAC
Mode:	LTE66/20MHz/QPSK
Tested by:	11993
Date:	2020-10-30

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1720MHz												
1	6.40638	-68.31	Pk	35.6	-28.5	11.8	-49.41	-13	-36.41	0-360	101	H
2	11.34372	-73.45	Pk	38.1	-23.1	11.8	-46.65	-13	-33.65	0-360	200	H
3	15.44708	-72.82	Pk	40.3	-22.2	11.8	-42.92	-13	-29.92	0-360	200	H
4	5.13343	-63.65	Pk	34.1	-31.1	11.8	-48.85	-13	-35.85	0-360	101	V
5	12.52468	-71.16	Pk	39.1	-24.5	11.8	-44.76	-13	-31.76	0-360	300	V
6	14.8356	-71.85	Pk	40.1	-23.3	11.8	-43.25	-13	-30.25	0-360	199	V
1745MHz												
1	5.20792	-59.37	Pk	34.3	-30.8	11.8	-44.07	-13	-31.07	0-360	101	H
2	6.94437	-64.48	Pk	35.7	-27.8	11.8	-44.78	-13	-31.78	0-360	101	H
3	10.41625	-70.25	Pk	37.6	-25	11.8	-45.85	-13	-32.85	0-360	101	H
4	5.20842	-60.7	Pk	34.3	-30.8	11.8	-45.4	-13	-32.4	0-360	101	V
5	6.94387	-68.5	Pk	35.7	-27.8	11.8	-48.8	-13	-35.8	0-360	200	V
6	10.41625	-67.97	Pk	37.6	-25	11.8	-43.57	-13	-30.57	0-360	200	V
1770MHz												
1	5.28292	-62.8	Pk	34.4	-29.8	11.8	-46.4	-13	-33.4	0-360	101	H
2	7.04411	-67.17	Pk	35.7	-27.7	11.8	-47.37	-13	-34.37	0-360	101	H
3	10.56724	-70.04	Pk	37.8	-24.6	11.8	-45.04	-13	-32.04	0-360	101	H
4	5.28292	-66.07	Pk	34.4	-29.8	11.8	-49.67	-13	-36.67	0-360	101	V
5	7.04411	-65.63	Pk	35.7	-27.7	11.8	-45.83	-13	-32.83	0-360	101	V
6	10.56724	-67.96	Pk	37.8	-24.6	11.8	-42.96	-13	-29.96	0-360	101	V

Pk - Peak detector

**16QAM LTE BAND 66 (20.0MHZ BANDWIDTH)**

Project Number	13548896
Client	Lions
Test Location	N-SAC
Mode	LTE66/20MHz/16-QAM
Tested by	19289 / 11993
Date	2020-11-12

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0074 (dB/m)	Amp/Cbl (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1720MHz													
4	32.1	-74.86	Pk	25.4	-31.4	.1	9.7	-71.06	-13	-58.06	0-360	101	V
5	61	-66.93	Pk	13.6	-30.9	.1	9.7	-74.43	-13	-61.43	0-360	101	V
1	61.05	-71.35	Pk	13.6	-30.9	.1	9.7	-78.85	-13	-65.85	0-360	300	H
2	111.75	-74.1	Pk	19	-30.2	.2	9.7	-75.4	-13	-62.4	0-360	300	H
6	112.2	-67.28	Pk	19	-30.2	.2	9.7	-68.58	-13	-55.58	0-360	101	V
3	492.5	-79.06	Pk	23.8	-27	.5	9.7	-72.06	-13	-59.06	0-360	200	H
7	704	-78.47	Pk	26.5	-26	.6	9.7	-67.67	-13	-54.67	0-360	299	V
1745MHz													
4	32.1	-73.95	Pk	25.4	-31.4	.1	9.7	-70.15	-13	-57.15	0-360	100	V
1	60.4	-70.37	Pk	13.5	-30.9	.1	9.7	-77.97	-13	-64.97	0-360	399	H
5	60.4	-64.41	Pk	13.5	-30.9	.1	9.7	-72.01	-13	-59.01	0-360	100	V
6	112.15	-66.73	Pk	19	-30.2	.2	9.7	-68.03	-13	-55.03	0-360	100	V
2	112.4	-74.21	Pk	19	-30.2	.2	9.7	-75.51	-13	-62.51	0-360	300	H
3	328.8	-74.52	Pk	20.1	-28.2	.3	9.7	-72.62	-13	-59.62	0-360	99	H
7	746.15	-78.28	Pk	26.8	-25.8	.6	9.7	-66.98	-13	-53.98	0-360	199	V
1770MHz													
4	45.7	-62.31	Pk	15.9	-31	.1	9.7	-67.61	-13	-54.61	0-360	100	V
1	45.8	-72.32	Pk	15.8	-31	.1	9.7	-77.72	-13	-64.72	0-360	399	H
2	104.1	-72.43	Pk	17.5	-30.2	.2	9.7	-75.23	-13	-62.23	0-360	300	H
5	149.7	-74.94	Pk	18.7	-29.7	.3	9.7	-75.94	-13	-62.94	0-360	100	V
3	476	-75.01	Pk	23.7	-27.2	.4	9.7	-68.41	-13	-55.41	0-360	199	H
6	997	-77.72	Pk	29.5	-23.1	.7	9.7	-60.92	-13	-47.92	0-360	300	V

Pk - Peak detector



Project Number:	13548896
Client:	Lions
Test Location:	S-SAC
Mode:	LTE66/20MHz/16-QAM
Tested by:	11993
Date:	2020-11-03

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1720MHz												
1	5.13343	-64.4	Pk	34.1	-31.1	11.8	-49.6	-13	-36.6	0-360	200	H
2	6.84437	-67.36	Pk	35.7	-28.8	11.8	-48.66	-13	-35.66	0-360	101	H
3	16.63904	-71.54	Pk	41.7	-23.6	11.8	-41.64	-13	-28.64	0-360	101	H
4	5.13343	-60.37	Pk	34.1	-31.1	11.8	-45.57	-13	-32.57	0-360	101	V
5	5.63291	-66.37	Pk	34.5	-29.3	11.8	-49.37	-13	-36.37	0-360	300	V
6	17.8095	-71.73	Pk	41.1	-21.7	11.8	-40.53	-13	-27.53	0-360	101	V
1745MHz												
1	5.20817	-62.4	Pk	34.3	-30.8	11.8	-47.1	-13	-34.1	0-360	101	H
2	6.94387	-64.78	Pk	35.7	-27.8	11.8	-45.08	-13	-32.08	0-360	101	H
3	10.41625	-69.56	Pk	37.6	-25	11.8	-45.16	-13	-32.16	0-360	101	H
4	5.20792	-60.79	Pk	34.3	-30.8	11.8	-45.49	-13	-32.49	0-360	101	V
5	6.94437	-67.89	Pk	35.7	-27.8	11.8	-48.19	-13	-35.19	0-360	200	V
6	10.41575	-69.86	Pk	37.6	-25	11.8	-45.46	-13	-32.46	0-360	200	V
1770MHz												
1	5.28342	-63.9	Pk	34.4	-29.8	11.8	-47.5	-13	-34.5	0-360	101	H
2	7.04461	-64.25	Pk	35.7	-27.7	11.8	-44.45	-13	-31.45	0-360	101	H
3	10.56774	-70.37	Pk	37.8	-24.6	11.8	-45.37	-13	-32.37	0-360	199	H
4	5.28342	-62.54	Pk	34.4	-29.8	11.8	-46.14	-13	-33.14	0-360	101	V
5	7.04386	-67.23	Pk	35.7	-27.7	11.8	-47.43	-13	-34.43	0-360	200	V
6	10.56724	-66.22	Pk	37.8	-24.6	11.8	-41.22	-13	-28.22	0-360	101	V

Pk - Peak detector

## 10. SETUP PHOTOS

Refer to R13548896-EP3 for setup diagrams and photos.

**END OF REPORT**