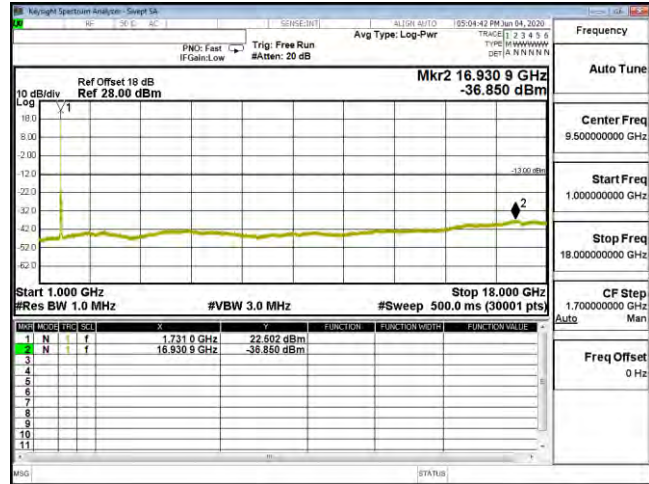
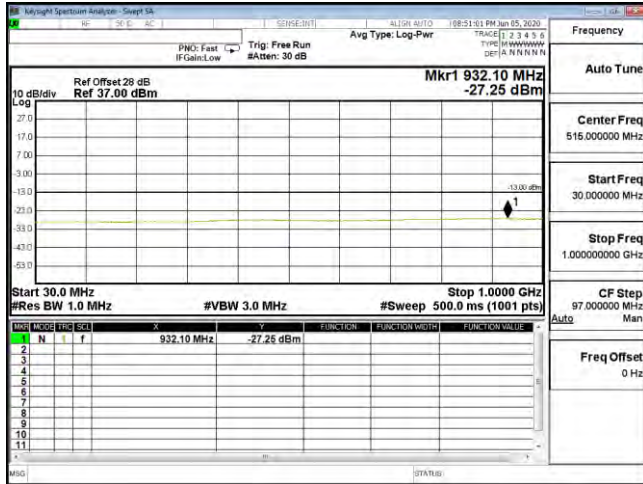
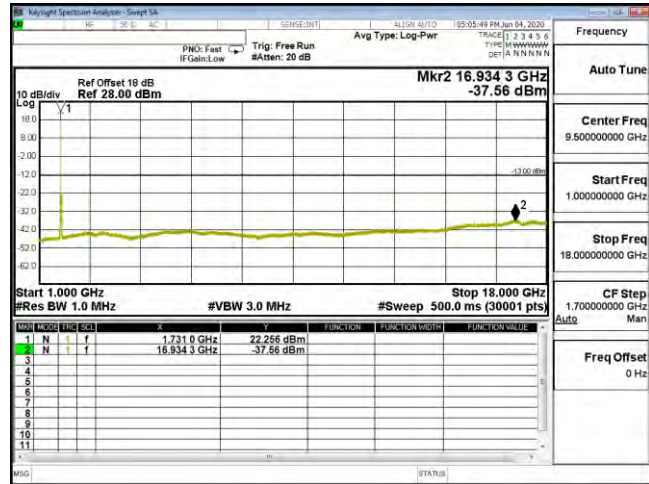
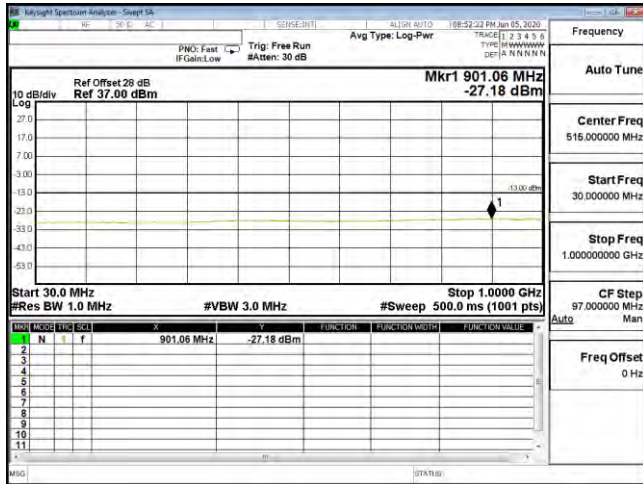


Product	LTE Module		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2020/06/13	Test Site	CTR
Test Condition	2UL_CA_66C	Test Range	30MHz~18GHz



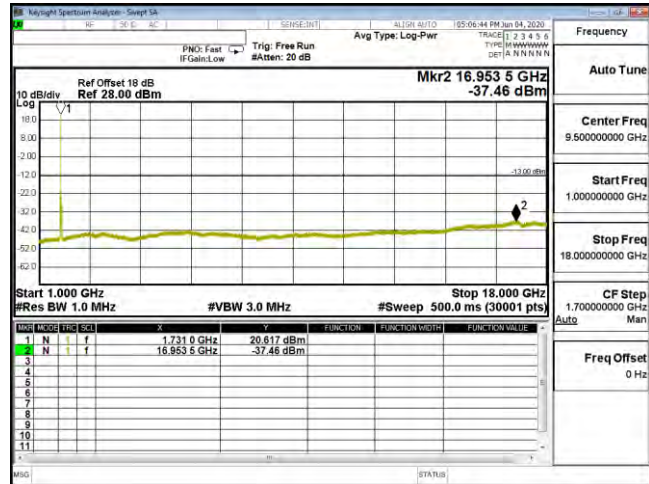
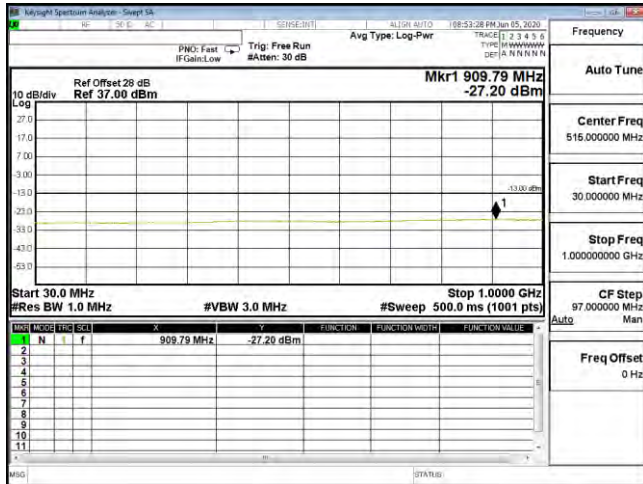
CSE(20M+20M)-2ULCA\_66C-QPSK\_1720(1,99)+1739.8(1,0)-30M-1G

CSE(20M+20M)-2ULCA\_66C-QPSK\_1720(1,99)+1739.8(1,0)



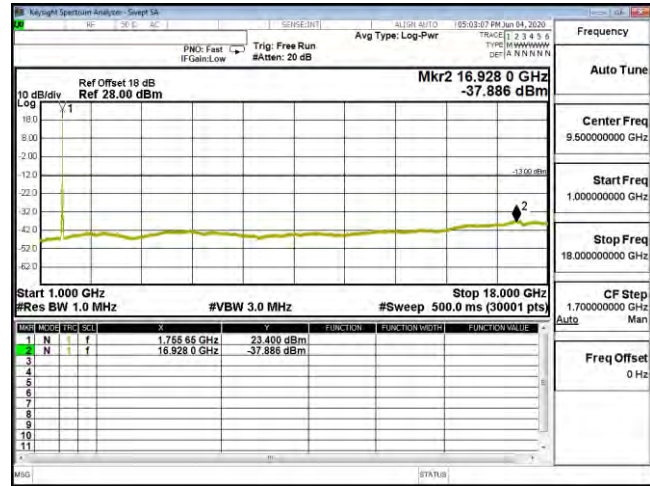
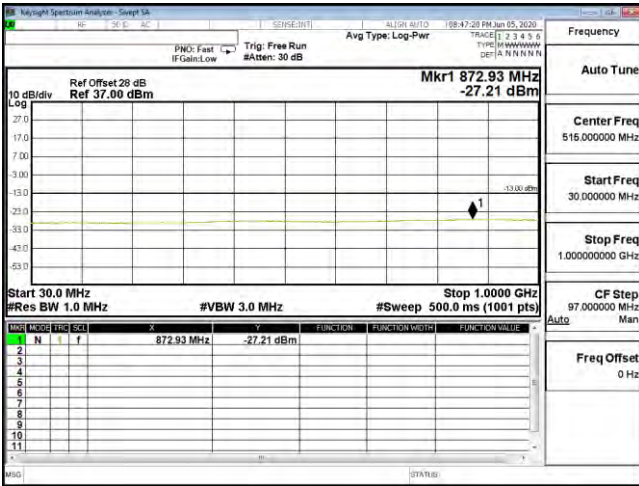
CSE(20M+20M)-2ULCA\_66C-16QAM\_1720(1,99)+1739.8(1,0)-30M-1G

CSE(20M+20M)-2ULCA\_66C-16QAM\_1720(1,99)+1739.8(1,0)



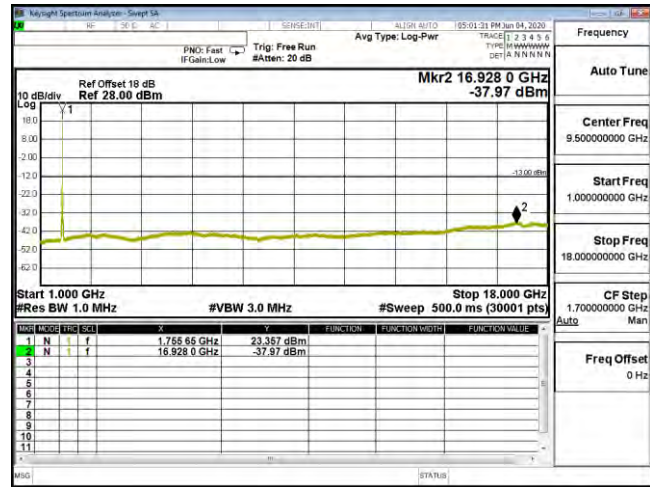
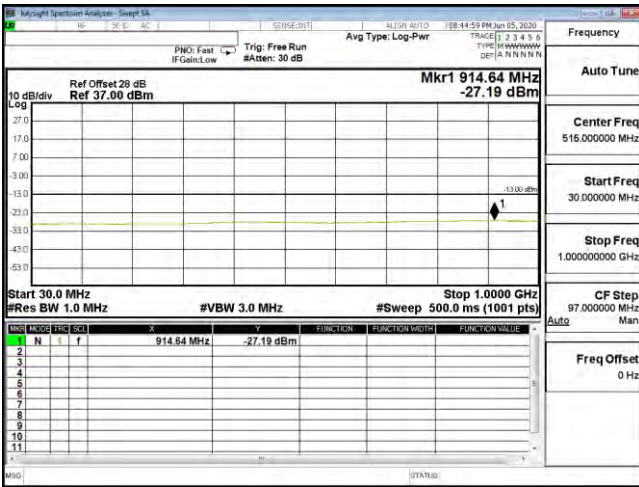
CSE(20M+20M)-2ULCA\_66C-64QAM\_1720(1,99)+1739.8(1,0)-30M-1G

CSE(20M+20M)-2ULCA\_66C-64QAM\_1720(1,99)+1739.8(1,0)



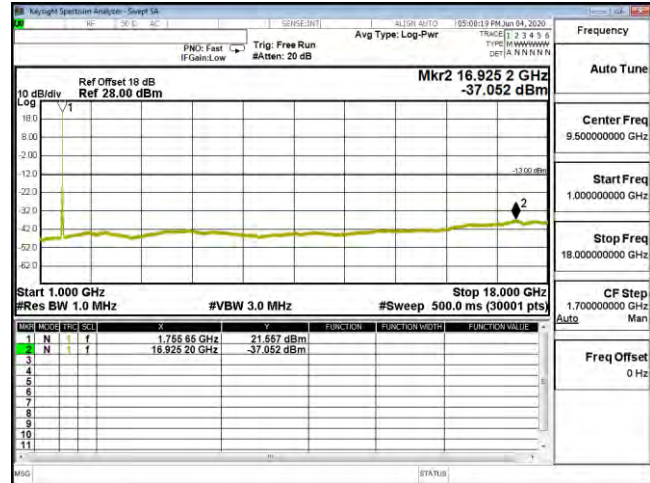
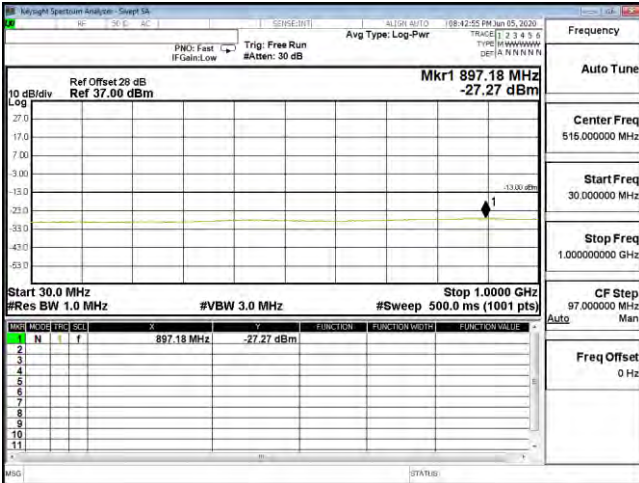
CSE(20M+20M)-2ULCA\_66C-QPSK\_1745.1(1,99)+1764.9(1,0)-30M-1G

CSE(20M+20M)-2ULCA\_66C-QPSK\_1745.1(1,99)+1764.9(1,0)



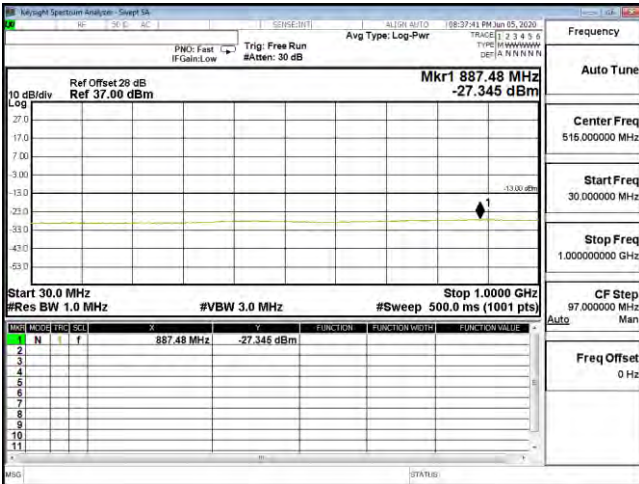
CSE(20M+20M)-2ULCA\_66C-16QAM\_1745.1(1,99)+1764.9(1,0)-30M-1G

CSE(20M+20M)-2ULCA\_66C-16QAM\_1745.1(1,99)+1764.9(1,0)

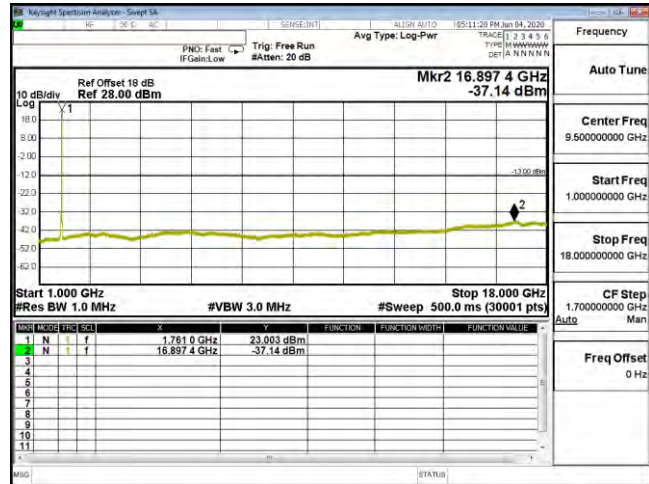


CSE(20M+20M)-2ULCA\_66C-64QAM\_1745.1(1,99)+1764.9(1,0)-30M-1G

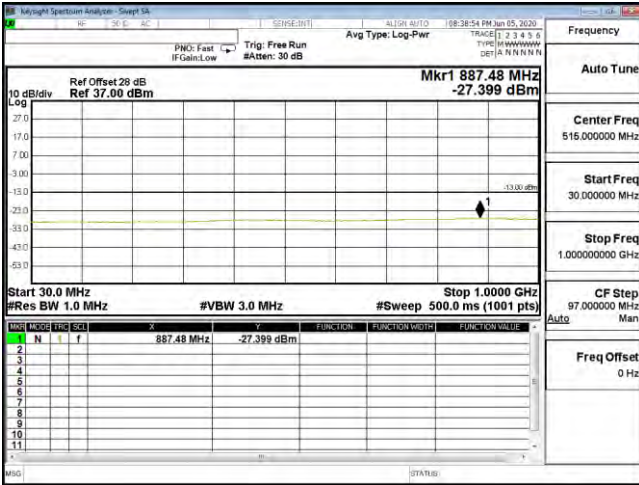
CSE(20M+20M)-2ULCA\_66C-64QAM\_1745.1(1,99)+1764.9(1,0)



CSE(20M+20M)-2ULCA\_66C-QPSK\_1750.2(1,99)+1770(1,0)-30M-1G



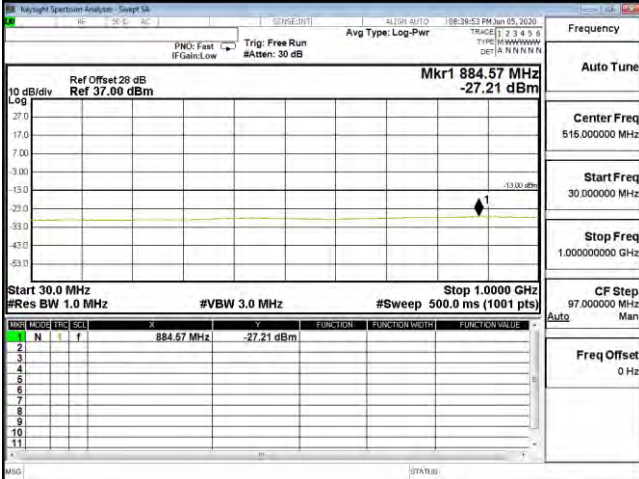
CSE(20M+20M)-2ULCA\_66C-QPSK\_1750.2(1,99)+1770(1,0)



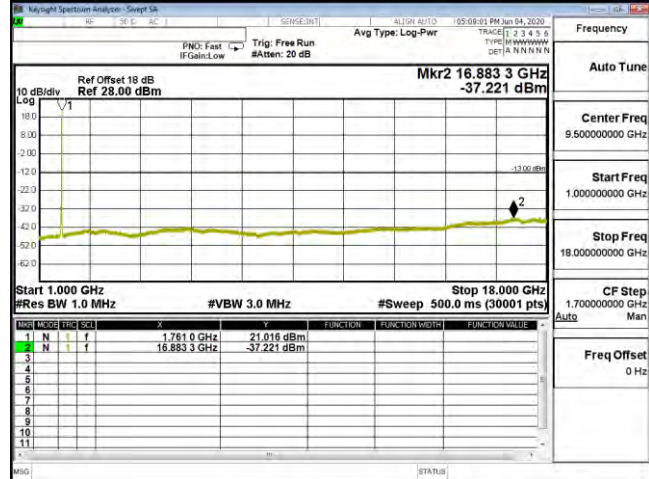
CSE(20M+20M)-2ULCA\_66C-16QAM\_1750.2(1,99)+1770(1,0)-30M-1G



CSE(20M+20M)-2ULCA\_66C-16QAM\_1750.2(1,99)+1770(1,0)



CSE(20M+20M)-2ULCA\_66C-64QAM\_1750.2(1,99)+1770(1,0)-30M-1G



CSE(20M+20M)-2ULCA\_66C-64QAM\_1750.2(1,99)+1770(1,0)

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/06/08	Test Site	Site3
Test Condition	Band 2 (1.4M) QPSK(1,2)	Test Range	9kHz ~20GHz

Polarity	CH	RB No.	RB Offset	Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
								Gain (dBi)		
Horizontal	Low	1	2	3701	-51.29	-50.15	2.53	12.6	-40.08	-13
Horizontal	Low	1	2	5552	-50.41	-44.27	3.05	13.1	-34.22	-13
Horizontal	Low	1	2	7403	-59.19	-43.72	3.65	11.5	-35.87	-13
Vertical	Low	1	2	3701	-52.85	-51.71	2.53	12.6	-41.64	-13
Vertical	Low	1	2	5552	-47.61	-41.49	3.05	13.1	-31.44	-13
Vertical	Low	1	2	7403	-58.07	-42.81	3.65	11.5	-34.96	-13

Horizontal	Mid	1	2	3760	-46.20	-44.75	2.53	12.6	-34.68	-13
Horizontal	Mid	1	2	5640	-46.88	-40.62	3.05	13.1	-30.57	-13
Horizontal	Mid	1	2	7520	-59.59	-44.56	3.65	11.5	-36.71	-13
Vertical	Mid	1	2	3760	-51.03	-49.52	2.53	12.6	-39.45	-13
Vertical	Mid	1	2	5640	-46.72	-40.32	3.05	13.1	-30.27	-13
Vertical	Mid	1	2	7520	-58.24	-43.38	3.65	11.5	-35.53	-13

Horizontal	High	1	2	3819	-53.05	-51.25	2.53	12.6	-41.18	-13
Horizontal	High	1	2	5728	-46.75	-40.16	3.05	13.1	-30.11	-13
Horizontal	High	1	2	7637	-57.97	-43.39	3.65	11.5	-35.54	-13
Vertical	High	1	2	3819	-52.25	-50.37	2.53	12.6	-40.30	-13
Vertical	High	1	2	5728	-45.16	-38.69	3.05	13.1	-28.64	-13
Vertical	High	1	2	7637	-57.20	-42.91	3.65	11.5	-35.06	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/06/08	Test Site	Site3
Test Condition	Band 2 (3M) QPSK	Test Range	9kHz ~20GHz

Polarity	CH	RB No.	RB Offset	Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
								Gain (dBi)		
Horizontal	Low	1	7	3703	-55.08	-53.93	2.53	12.6	-43.86	-13
Horizontal	Low	1	7	5555	-48.45	-42.32	3.05	13.1	-32.27	-13
Horizontal	Low	1	7	7406	-59.43	-44.00	3.65	11.5	-36.15	-13
Vertical	Low	1	7	3703	-53.38	-52.23	2.53	12.6	-42.16	-13
Vertical	Low	1	7	5555	-47.87	-41.74	3.05	13.1	-31.69	-13
Vertical	Low	1	7	7406	-58.09	-42.84	3.65	11.5	-34.99	-13

Horizontal	Mid	1	7	3760	-46.29	-44.84	2.53	12.6	-34.77	-13
Horizontal	Mid	1	7	5640	-47.52	-41.26	3.05	13.1	-31.21	-13
Horizontal	Mid	1	7	7520	-59.18	-44.15	3.65	11.5	-36.30	-13
Vertical	Mid	1	7	3760	-50.43	-48.92	2.53	12.6	-38.85	-13
Vertical	Mid	1	7	5640	-47.35	-40.95	3.05	13.1	-30.90	-13
Vertical	Mid	1	7	7520	-58.94	-44.08	3.65	11.5	-36.23	-13

Horizontal	High	1	7	3817	-41.38	-63.31	2.53	12.6	-53.24	-13
Horizontal	High	1	7	5726	-47.49	-40.90	3.05	13.1	-30.85	-13
Horizontal	High	1	7	7634	-57.51	-42.90	3.65	11.5	-35.05	-13
Vertical	High	1	7	3817	-50.95	-49.08	2.53	12.6	-39.01	-13
Vertical	High	1	7	5726	-47.24	-40.77	3.05	13.1	-30.72	-13
Vertical	High	1	7	7634	-56.81	-42.51	3.65	11.5	-34.66	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/06/08	Test Site	Site3
Test Condition	Band 2 (5M) QPSK	Test Range	9kHz ~20GHz

Polarity	CH	RB No.	RB Offset	Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
								Gain (dBi)		
Horizontal	Low	1	24	3705	-53.32	-52.14	2.53	12.6	-42.07	-13
Horizontal	Low	1	24	5558	-49.09	-42.97	3.05	13.1	-32.92	-13
Horizontal	Low	1	24	7410	-58.63	-43.25	3.65	11.5	-35.40	-13
Vertical	Low	1	24	3705	-54.92	-53.73	2.53	12.6	-43.66	-13
Vertical	Low	1	24	5558	-46.70	-40.53	3.05	13.1	-30.48	-13
Vertical	Low	1	24	7410	-58.97	-43.73	3.65	11.5	-35.88	-13

Horizontal	Mid	1	12	3760	-45.72	-44.27	2.53	12.6	-34.20	-13
Horizontal	Mid	1	12	5640	-46.79	-40.53	3.05	13.1	-30.48	-13
Horizontal	Mid	1	12	7520	-58.75	-43.72	3.65	11.5	-35.87	-13
Vertical	Mid	1	12	3760	-51.35	-49.83	2.53	12.6	-39.76	-13
Vertical	Mid	1	12	5640	-47.14	-40.74	3.05	13.1	-30.69	-13
Vertical	Mid	1	12	7520	-59.14	-44.28	3.65	11.5	-36.43	-13

Horizontal	High	1	12	3815	-50.78	-49.00	2.53	12.6	-38.93	-13
Horizontal	High	1	12	5723	-45.78	-39.19	3.05	13.1	-29.14	-13
Horizontal	High	1	12	7630	-57.88	-43.22	3.65	11.5	-35.37	-13
Vertical	High	1	12	3815	-52.31	-50.45	2.53	12.6	-40.38	-13
Vertical	High	1	12	5723	-45.00	-38.52	3.05	13.1	-28.47	-13
Vertical	High	1	12	7630	-56.91	-42.60	3.65	11.5	-34.75	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:3MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/06/08	Test Site	Site3
Test Condition	Band 2 (10M) QPSK	Test Range	9KHz ~20GHz

Polarity	CH	RB No.	RB Offset	Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
								Gain (dBi)		
Horizontal	Low	1	0	3710	-52.30	-51.16	2.53	12.6	-41.09	-13
Horizontal	Low	1	0	5565	-50.72	-44.58	3.05	13.1	-34.53	-13
Horizontal	Low	1	0	7420	-58.87	-43.40	3.65	11.5	-35.55	-13
Vertical	Low	1	0	3710	-53.01	-51.87	2.53	12.6	-41.80	-13
Vertical	Low	1	0	5565	-48.58	-42.46	3.05	13.1	-32.41	-13
Vertical	Low	1	0	7420	-57.79	-42.53	3.65	11.5	-34.68	-13

Horizontal	Mid	1	25	3760	-46.51	-45.06	2.53	12.6	-34.99	-13
Horizontal	Mid	1	25	5640	-48.17	-41.91	3.05	13.1	-31.86	-13
Horizontal	Mid	1	25	7520	-58.31	-43.28	3.65	11.5	-35.43	-13
Vertical	Mid	1	25	3760	-51.88	-50.37	2.53	12.6	-40.30	-13
Vertical	Mid	1	25	5640	-47.16	-40.76	3.05	13.1	-30.71	-13
Vertical	Mid	1	25	7520	-58.22	-43.28	3.65	11.5	-35.43	-13

Horizontal	High	1	49	3810	-52.10	-50.30	2.53	12.6	-40.23	-13
Horizontal	High	1	49	5715	-48.11	-41.52	3.05	13.1	-31.47	-13
Horizontal	High	1	49	7620	-57.29	-42.72	3.65	11.5	-34.87	-13
Vertical	High	1	49	3810	-53.33	-51.45	2.53	12.6	-41.38	-13
Vertical	High	1	49	5715	-47.30	-40.83	3.05	13.1	-30.78	-13
Vertical	High	1	49	7620	-57.44	-43.14	3.65	11.5	-35.29	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/06/08	Test Site	Site3
Test Condition	Band 2 (15M) QPSK	Test Range	9KHz ~20GHz

Polarity	CH	RB No.	RB Offset	Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
								Gain (dBi)		
Horizontal	Low	1	0	3715	-48.73	-47.59	2.53	12.6	-37.52	-13
Horizontal	Low	1	0	5573	-50.74	-44.60	3.05	13.1	-34.55	-13
Horizontal	Low	1	0	7430	-60.28	-44.93	3.65	11.5	-37.08	-13
Vertical	Low	1	0	3715	-51.85	-50.71	2.53	12.6	-40.64	-13
Vertical	Low	1	0	5573	-48.60	-42.48	3.05	13.1	-32.43	-13
Vertical	Low	1	0	7430	-58.41	-43.16	3.65	11.5	-35.31	-13

Horizontal	Mid	1	37	3760	-45.34	-43.89	2.53	12.6	-33.82	-13
Horizontal	Mid	1	37	5640	-47.60	-41.34	3.05	13.1	-31.29	-13
Horizontal	Mid	1	37	7520	-58.64	-43.62	3.65	11.5	-35.77	-13
Vertical	Mid	1	37	3760	-51.20	-49.69	2.53	12.6	-39.62	-13
Vertical	Mid	1	37	5640	-46.85	-40.45	3.05	13.1	-30.40	-13
Vertical	Mid	1	37	7520	-57.91	-43.05	3.65	11.5	-35.20	-13

Horizontal	High	1	0	3805	-48.31	-46.69	2.53	12.6	-36.62	-13
Horizontal	High	1	0	5708	-48.41	-41.90	3.05	13.1	-31.85	-13
Horizontal	High	1	0	7610	-57.13	-42.14	3.65	11.5	-34.29	-13
Vertical	High	1	0	3805	-49.77	-48.05	2.53	12.6	-37.98	-13
Vertical	High	1	0	5708	-47.24	-40.75	3.05	13.1	-30.70	-13
Vertical	High	1	0	7610	-57.72	-43.32	3.65	11.5	-35.47	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.



Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/06/08	Test Site	Site3
Test Condition	Band 2 (20M) QPSK	Test Range	9KHz ~20GHz

Polarity	CH	RB No.	RB Offset	Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
								Gain (dBi)		
Horizontal	Low	1	0	3720	-48.36	-47.22	2.53	12.6	-37.15	-13
Horizontal	Low	1	0	5580	-50.78	-44.64	3.05	13.1	-34.59	-13
Horizontal	Low	1	0	7440	-60.79	-45.49	3.65	11.5	-37.64	-13
Vertical	Low	1	0	3720	-53.09	-51.94	2.53	12.6	-41.87	-13
Vertical	Low	1	0	5580	-47.99	-41.87	3.05	13.1	-31.82	-13
Vertical	Low	1	0	7440	-60.32	-45.17	3.65	11.5	-37.32	-13

Horizontal	Mid	1	50	3760	-45.00	-43.55	2.53	12.6	-33.48	-13
Horizontal	Mid	1	50	5640	-45.64	-39.38	3.05	13.1	-29.33	-13
Horizontal	Mid	1	50	7520	-59.38	-44.35	3.65	11.5	-36.50	-13
Vertical	Mid	1	50	3760	-52.74	-51.23	2.53	12.6	-41.16	-13
Vertical	Mid	1	50	5640	-46.31	-39.91	3.05	13.1	-29.86	-13
Vertical	Mid	1	50	7520	-59.71	-44.85	3.65	11.5	-37.00	-13

Horizontal	High	1	0	3800	-51.32	-49.75	2.53	12.6	-39.68	-13
Horizontal	High	1	0	5700	-48.26	-41.83	3.05	13.1	-31.78	-13
Horizontal	High	1	0	7600	-58.09	-43.12	3.65	11.5	-35.27	-13
Vertical	High	1	0	3800	-52.23	-50.57	2.53	12.6	-40.50	-13
Vertical	High	1	0	5700	-47.87	-41.41	3.05	13.1	-31.36	-13
Vertical	High	1	0	7600	-59.67	-45.27	3.65	11.5	-37.42	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/06/08	Test Site	Site3
Test Condition	Band 5 (1.4M) QPSK	Test Range	9kHz ~10GHz

Polarity	CH	RB No.	RB Offset	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna	EIRP Value	Limit
				(GHz)	(dBm)	(dBm)	(dB)	Gain (dBi)	(dBm)	(dBm)
Horizontal	Low	1	2	1649	-43.26	-47.18	1.63	9.8	-39.01	-13
Horizontal	Low	1	2	2474	-59.19	-58.96	2.10	10.6	-50.46	-13
Horizontal	Low	1	2	3299	-60.72	-60.51	2.35	12.3	-50.56	-13
Vertical	Low	1	2	1649	-49.08	-53.17	1.63	9.8	-45.00	-13
Vertical	Low	1	2	2474	-59.81	-59.57	2.10	10.6	-51.07	-13
Vertical	Low	1	2	3299	-60.98	-60.84	2.35	12.3	-50.89	-13

Horizontal	Mid	3	2	1673	-45.22	-49.16	1.63	9.8	-40.99	-13
Horizontal	Mid	3	2	2510	-59.63	-59.33	2.10	10.6	-50.83	-13
Horizontal	Mid	3	2	3346	-60.94	-60.84	2.35	12.3	-50.89	-13
Vertical	Mid	3	2	1673	-48.79	-52.64	1.63	9.8	-44.47	-13
Vertical	Mid	3	2	2510	-60.93	-60.53	2.10	10.6	-52.03	-13
Vertical	Mid	3	2	3346	-61.07	-60.92	2.35	12.3	-50.97	-13

Horizontal	High	1	5	1697	-42.96	-46.92	1.63	9.8	-38.75	-13
Horizontal	High	1	5	2545	-58.68	-58.18	2.10	10.6	-49.68	-13
Horizontal	High	1	5	3393	-60.47	-60.47	2.35	12.3	-50.52	-13
Vertical	High	1	5	1697	-46.72	-50.33	1.63	9.8	-42.16	-13
Vertical	High	1	5	2545	-59.24	-58.67	2.10	10.6	-50.17	-13
Vertical	High	1	5	3393	-60.21	-60.05	2.35	12.3	-50.10	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 4 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/06/08	Test Site	Site3
Test Condition	Band 5 (3M) QPSK	Test Range	9kHz ~10GHz

Polarity	CH	RB No.	RB Offset	Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
								Gain (dBi)		
Horizontal	Low	1	0	1651	-45.79	-49.71	1.63	9.8	-41.54	-13
Horizontal	Low	1	0	2477	-58.78	-58.55	2.10	10.6	-50.05	-13
Horizontal	Low	1	0	3302	-59.04	-58.86	2.35	12.3	-48.91	-13
Vertical	Low	1	0	1651	-49.25	-53.35	1.63	9.8	-45.18	-13
Vertical	Low	1	0	2477	-59.14	-58.93	2.10	10.6	-50.43	-13
Vertical	Low	1	0	3302	-60.60	-60.46	2.35	12.3	-50.51	-13

Horizontal	Mid	1	14	1673	-44.72	-48.66	1.63	9.8	-40.49	-13
Horizontal	Mid	1	14	2510	-57.40	-57.08	2.10	10.6	-48.58	-13
Horizontal	Mid	1	14	3346	-59.03	-58.91	2.35	12.3	-48.96	-13
Vertical	Mid	1	14	1673	-46.39	-50.22	1.63	9.8	-42.05	-13
Vertical	Mid	1	14	2510	-60.90	-60.50	2.10	10.6	-52.00	-13
Vertical	Mid	1	14	3346	-60.14	-59.99	2.35	12.3	-50.04	-13

Horizontal	High	1	14	1695	-42.91	-46.87	1.63	9.8	-38.70	-13
Horizontal	High	1	14	2543	-59.61	-59.11	2.10	10.6	-50.61	-13
Horizontal	High	1	14	3390	-60.06	-60.05	2.35	12.3	-50.10	-13
Vertical	High	1	14	1695	-46.27	-49.88	1.63	9.8	-41.71	-13
Vertical	High	1	14	2543	-61.55	-60.97	2.10	10.6	-52.47	-13
Vertical	High	1	14	3390	-60.53	-60.37	2.35	12.3	-50.42	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 4 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/06/08	Test Site	Site3
Test Condition	Band 5 (5M) QPSK	Test Range	9kHz ~10GHz

Polarity	CH	RB No.	RB Offset	Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
								Gain (dBi)		
Horizontal	Low	1	0	1653	-45.38	-49.30	1.63	9.8	-41.13	-13
Horizontal	Low	1	0	2480	-58.45	-58.22	2.10	10.6	-49.72	-13
Horizontal	Low	1	0	3306	-59.82	-59.63	2.35	12.3	-49.68	-13
Vertical	Low	1	0	1653	-49.19	-53.29	1.63	9.8	-45.12	-13
Vertical	Low	1	0	2480	-59.02	-58.85	2.10	10.6	-50.35	-13
Vertical	Low	1	0	3306	-60.66	-60.52	2.35	12.3	-50.57	-13

Horizontal	Mid	1	24	1673	-44.38	-48.32	1.63	9.8	-40.15	-13
Horizontal	Mid	1	24	2510	-58.09	-57.75	2.10	10.6	-49.25	-13
Horizontal	Mid	1	24	3346	-60.15	-60.05	2.35	12.3	-50.10	-13
Vertical	Mid	1	24	1673	-45.63	-49.44	1.63	9.8	-41.27	-13
Vertical	Mid	1	24	2510	-58.78	-58.34	2.10	10.6	-49.84	-13
Vertical	Mid	1	24	3346	-61.44	-61.29	2.35	12.3	-51.34	-13

Horizontal	High	1	0	1693	-43.74	-47.69	1.63	9.8	-39.52	-13
Horizontal	High	1	0	2540	-59.58	-59.15	2.10	10.6	-50.65	-13
Horizontal	High	1	0	3386	-58.70	-58.68	2.35	12.3	-48.73	-13
Vertical	High	1	0	1693	-48.08	-51.78	1.63	9.8	-43.61	-13
Vertical	High	1	0	2540	-59.59	-59.04	2.10	10.6	-50.54	-13
Vertical	High	1	0	3386	-60.92	-60.76	2.35	12.3	-50.81	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 4 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/06/08	Test Site	Site3
Test Condition	Band 5 (10M) QPSK	Test Range	9kHz ~10GHz

Polarity	CH	RB No.	RB Offset	Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
								Gain (dBi)		
Horizontal	Low	1	25	1658	-42.50	-46.42	1.63	9.8	-38.25	-13
Horizontal	Low	1	25	2487	-61.23	-60.99	2.10	10.6	-52.49	-13
Horizontal	Low	1	25	3316	-59.43	-59.26	2.35	12.3	-49.31	-13
Vertical	Low	1	25	1658	-45.82	-49.91	1.63	9.8	-41.74	-13
Vertical	Low	1	25	2487	-60.46	-60.17	2.10	10.6	-51.67	-13
Vertical	Low	1	25	3316	-59.86	-59.72	2.35	12.3	-49.77	-13

Horizontal	Mid	1	49	1673	-39.08	-43.03	1.63	9.8	-34.86	-13
Horizontal	Mid	1	49	2510	-56.20	-55.83	2.10	10.6	-47.33	-13
Horizontal	Mid	1	49	3346	-59.80	-59.70	2.35	12.3	-49.75	-13
Vertical	Mid	1	49	1673	-43.96	-47.73	1.63	9.8	-39.56	-13
Vertical	Mid	1	49	2510	-58.66	-58.18	2.10	10.6	-49.68	-13
Vertical	Mid	1	49	3346	-60.17	-60.02	2.35	12.3	-50.07	-13

Horizontal	High	1	25	1688	-44.13	-48.08	1.63	9.8	-39.91	-13
Horizontal	High	1	25	2532	-59.62	-59.20	2.10	10.6	-50.70	-13
Horizontal	High	1	25	3376	-59.54	-59.50	2.35	12.3	-49.55	-13
Vertical	High	1	25	1688	-51.34	-55.04	1.63	9.8	-46.87	-13
Vertical	High	1	25	2532	-60.54	-60.01	2.10	10.6	-51.51	-13
Vertical	High	1	25	3376	-59.59	-59.43	2.35	12.3	-49.48	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 4 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/06/08	Test Site	Site3
Test Condition	Band 13 (5M) QPSK	Test Range	9kHz ~10GHz

Polarity	CH	RB No.	RB Offset	Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
								Gain (dBi)		
Horizontal	Low	1	12	1559	-48.26	-52.19	1.63	9.8	-44.02	-40
Horizontal	Low	1	12	2339	-59.45	-59.54	2.10	10.6	-51.04	-13
Horizontal	Low	1	12	3118	-57.87	-57.17	2.35	12.3	-47.22	-13
Vertical	Low	1	12	1559	-51.54	-55.58	1.63	9.8	-47.41	-40
Vertical	Low	1	12	2339	-59.26	-59.39	2.10	10.6	-50.89	-13
Vertical	Low	1	12	3118	-61.33	-60.71	2.35	12.3	-50.76	-13

Horizontal	Mid	1	12	1564	-48.96	-52.88	1.63	9.8	-44.71	-40
Horizontal	Mid	1	12	2346	-58.63	-58.69	2.10	10.6	-50.19	-13
Horizontal	Mid	1	12	3128	-60.76	-60.05	2.35	12.3	-50.10	-13
Vertical	Mid	1	12	1564	-54.39	-57.50	1.63	9.8	-49.33	-40
Vertical	Mid	1	12	2346	-59.52	-59.64	2.10	10.6	-51.14	-13
Vertical	Mid	1	12	3128	-61.36	-60.73	2.35	12.3	-50.78	-13

Horizontal	High	1	12	1569	-47.32	-51.23	1.63	9.8	-43.06	-40
Horizontal	High	1	12	2354	-59.64	-59.66	2.10	10.6	-51.16	-13
Horizontal	High	1	12	3138	-60.96	-60.23	2.35	12.3	-50.28	-13
Vertical	High	1	12	1569	-50.61	-54.79	1.63	9.8	-46.62	-40
Vertical	High	1	12	2354	-60.06	-60.19	2.10	10.6	-51.69	-13
Vertical	High	1	12	3138	-60.82	-60.20	2.35	12.3	-50.25	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 4 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/06/08	Test Site	Site3
Test Condition	Band 13 (10M) QPSK	Test Range	9kHz ~10GHz

Polarity	CH	RB No.	RB Offset	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna	EIRP Value	Limit
				(GHz)	(dBm)	(dBm)	(dB)	Gain		
Horizontal	Mid	1	0	1564	-46.50	-50.43	1.63	9.8	-42.26	-40
Horizontal	Mid	1	0	2346	-59.36	-59.38	2.10	10.6	-50.88	-13
Horizontal	Mid	1	0	3128	-59.78	-59.05	2.35	12.3	-49.10	-13
Vertical	Mid	1	0	1564	-52.52	-56.52	1.63	9.8	-48.35	-40
Vertical	Mid	1	0	2346	-60.08	-60.21	2.10	10.6	-51.71	-13
Vertical	Mid	1	0	3128	-60.66	-60.03	2.35	12.3	-50.08	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 4 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/06/08	Test Site	Site3
Test Condition	Band 66 (1.4M) QPSK	Test Range	9kHz ~18GHz

Polarity	CH	RB No.	RB Offset	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna	EIRP Value	Limit
				(GHz)	(dBm)	(dBm)	(dB)	Gain		
Horizontal	Low	1	2	3421	-52.97	-52.89	2.53	12.6	-42.82	-13
Horizontal	Low	1	2	5132	-47.05	-41.07	3.05	13.1	-31.02	-13
Horizontal	Low	1	2	6843	-56.06	-44.67	3.65	11.5	-36.82	-13
Vertical	Low	1	2	3421	-53.28	-53.11	2.53	12.6	-43.04	-13
Vertical	Low	1	2	5132	-47.03	-41.14	3.05	13.1	-31.09	-13
Vertical	Low	1	2	6843	-55.69	-44.33	3.65	11.5	-36.48	-13

Horizontal	Mid	1	2	3490	-50.77	-50.00	2.53	12.6	-39.93	-13
Horizontal	Mid	1	2	5235	-45.90	-40.53	3.05	13.1	-30.48	-13
Horizontal	Mid	1	2	6980	-51.76	-38.96	3.65	11.5	-31.11	-13
Vertical	Mid	1	2	3490	-52.82	-52.21	2.53	12.6	-42.14	-13
Vertical	Mid	1	2	5235	-45.57	-40.56	3.05	13.1	-30.51	-13
Vertical	Mid	1	2	6980	-55.36	-43.27	3.65	11.5	-35.42	-13

Horizontal	High	1	2	3559	-48.64	-47.76	2.53	12.6	-37.69	-13
Horizontal	High	1	2	5338	-48.67	-43.15	3.05	13.1	-33.10	-13
Horizontal	High	1	2	7117	-57.33	-42.83	3.65	11.5	-34.98	-13
Vertical	High	1	2	3559	-48.94	-48.17	2.53	12.6	-38.10	-13
Vertical	High	1	2	5338	-49.01	-43.63	3.05	13.1	-33.58	-13
Vertical	High	1	2	7117	-57.35	-43.20	3.65	11.5	-35.35	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.



Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/06/08	Test Site	Site3
Test Condition	Band 66 (3M) QPSK	Test Range	9kHz ~18GHz

Polarity	CH	RB No.	RB Offset	Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
								Gain (dBi)		
Horizontal	Low	1	7	3423	-53.30	-53.20	2.53	12.6	-43.13	-13
Horizontal	Low	1	7	5135	-48.63	-42.67	3.05	13.1	-32.62	-13
Horizontal	Low	1	7	6846	-56.88	-45.46	3.65	11.5	-37.61	-13
Vertical	Low	1	7	3423	-53.86	-53.68	2.53	12.6	-43.61	-13
Vertical	Low	1	7	5135	-46.06	-40.20	3.05	13.1	-30.15	-13
Vertical	Low	1	7	6846	-54.22	-42.82	3.65	11.5	-34.97	-13

Horizontal	Mid	1	7	3490	-51.37	-50.60	2.53	12.6	-40.53	-13
Horizontal	Mid	1	7	5235	-46.60	-41.23	3.05	13.1	-31.18	-13
Horizontal	Mid	1	7	6980	-50.66	-37.85	3.65	11.5	-30.00	-13
Vertical	Mid	1	7	3490	-52.49	-51.88	2.53	12.6	-41.81	-13
Vertical	Mid	1	7	5235	-45.02	-40.00	3.05	13.1	-29.95	-13
Vertical	Mid	1	7	6980	-55.79	-43.70	3.65	11.5	-35.85	-13

Horizontal	High	1	7	3557	-47.69	-46.81	2.53	12.6	-36.74	-13
Horizontal	High	1	7	5336	-49.24	-43.73	3.05	13.1	-33.68	-13
Horizontal	High	1	7	7114	-58.06	-43.55	3.65	11.5	-35.70	-13
Vertical	High	1	7	3557	-49.35	-48.58	2.53	12.6	-38.51	-13
Vertical	High	1	7	5336	-48.04	-42.66	3.05	13.1	-32.61	-13
Vertical	High	1	7	7114	-56.85	-42.71	3.65	11.5	-34.86	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/06/08	Test Site	Site3
Test Condition	Band 66 (5M) QPSK	Test Range	9kHz ~18GHz

Polarity	CH	RB No.	RB Offset	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna	EIRP Value	Limit
				(GHz)	(dBm)	(dBm)	(dB)	Gain		
Horizontal	Low	1	12	3425	-53.37	-53.25	2.53	12.6	-43.18	-13
Horizontal	Low	1	12	5138	-47.30	-41.37	3.05	13.1	-31.32	-13
Horizontal	Low	1	12	6850	-58.16	-46.70	3.65	11.5	-38.85	-13
Vertical	Low	1	12	3425	-53.02	-52.82	2.53	12.6	-42.75	-13
Vertical	Low	1	12	5138	-47.51	-41.70	3.05	13.1	-31.65	-13
Vertical	Low	1	12	6850	-58.53	-47.08	3.65	11.5	-39.23	-13

Horizontal	Mid	1	12	3490	-50.81	-50.04	2.53	12.6	-39.97	-13
Horizontal	Mid	1	12	5235	-47.34	-41.97	3.05	13.1	-31.92	-13
Horizontal	Mid	1	12	6980	-55.47	-42.66	3.65	11.5	-34.81	-13
Vertical	Mid	1	12	3490	-52.67	-52.06	2.53	12.6	-41.99	-13
Vertical	Mid	1	12	5235	-46.15	-41.14	3.05	13.1	-31.09	-13
Vertical	Mid	1	12	6980	-54.75	-42.66	3.65	11.5	-34.81	-13

Horizontal	High	1	12	3555	-48.94	-48.06	2.53	12.6	-37.99	-13
Horizontal	High	1	12	5333	-47.47	-41.97	3.05	13.1	-31.92	-13
Horizontal	High	1	12	7110	-57.42	-42.89	3.65	11.5	-35.04	-13
Vertical	High	1	12	3555	-49.67	-48.91	2.53	12.6	-38.84	-13
Vertical	High	1	12	5333	-47.69	-42.33	3.05	13.1	-32.28	-13
Vertical	High	1	12	7110	-57.52	-43.39	3.65	11.5	-35.54	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/06/08	Test Site	Site3
Test Condition	Band 66 (10M) QPSK	Test Range	9kHz ~18GHz

Polarity	CH	RB No.	RB Offset	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna	EIRP Value	Limit
				(GHz)	(dBm)	(dBm)	(dB)	Gain		
Horizontal	Low	1	49	3430	-50.60	-50.34	2.53	12.6	-40.27	-13
Horizontal	Low	1	49	5145	-47.97	-42.22	3.05	13.1	-32.17	-13
Horizontal	Low	1	49	6860	-60.83	-49.26	3.65	11.5	-41.41	-13
Vertical	Low	1	49	3430	-53.02	-52.74	2.53	12.6	-42.67	-13
Vertical	Low	1	49	5145	-48.41	-42.90	3.05	13.1	-32.85	-13
Vertical	Low	1	49	6860	-55.57	-43.63	3.65	11.5	-35.78	-13

Horizontal	Mid	1	25	3490	-51.77	-51.00	2.53	12.6	-40.93	-13
Horizontal	Mid	1	25	5235	-48.04	-42.67	3.05	13.1	-32.62	-13
Horizontal	Mid	1	25	6980	-56.07	-43.26	3.65	11.5	-35.41	-13
Vertical	Mid	1	25	3490	-52.66	-52.05	2.53	12.6	-41.98	-13
Vertical	Mid	1	25	5235	-46.97	-41.95	3.05	13.1	-31.90	-13
Vertical	Mid	1	25	6980	-55.76	-43.67	3.65	11.5	-35.82	-13

Horizontal	High	1	0	3550	-51.93	-51.06	2.53	12.6	-40.99	-13
Horizontal	High	1	0	5325	-47.34	-41.93	3.05	13.1	-31.88	-13
Horizontal	High	1	0	7100	-57.41	-43.11	3.65	11.5	-35.26	-13
Vertical	High	1	0	3550	-52.13	-51.39	2.53	12.6	-41.32	-13
Vertical	High	1	0	5325	-46.61	-41.33	3.05	13.1	-31.28	-13
Vertical	High	1	0	7100	-57.18	-43.44	3.65	11.5	-35.59	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/06/08	Test Site	Site3
Test Condition	Band 66 (15M) QPSK	Test Range	9kHz ~18GHz

Polarity	CH	RB No.	RB Offset	Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna	EIRP Value	Limit
				(GHz)	(dBm)	(dBm)	(dB)	Gain		
Horizontal	Low	1	0	3435	-50.64	-50.55	2.53	12.6	-40.48	-13
Horizontal	Low	1	0	5153	-48.88	-42.90	3.05	13.1	-32.85	-13
Horizontal	Low	1	0	6870	-58.24	-46.84	3.65	11.5	-38.99	-13
Vertical	Low	1	0	3435	-53.72	-53.54	2.53	12.6	-43.47	-13
Vertical	Low	1	0	5153	-48.10	-42.22	3.05	13.1	-32.17	-13
Vertical	Low	1	0	6870	-57.45	-46.07	3.65	11.5	-38.22	-13

Horizontal	Mid	1	37	3490	-51.54	-50.77	2.53	12.6	-40.70	-13
Horizontal	Mid	1	37	5235	-47.78	-42.41	3.05	13.1	-32.36	-13
Horizontal	Mid	1	37	6980	-55.75	-42.94	3.65	11.5	-35.09	-13
Vertical	Mid	1	37	3490	-53.07	-52.46	2.53	12.6	-42.39	-13
Vertical	Mid	1	37	5235	-43.41	-38.39	3.05	13.1	-28.34	-13
Vertical	Mid	1	37	6980	-55.20	-43.11	3.65	11.5	-35.26	-13

Horizontal	High	1	0	3545	-53.58	-52.71	2.53	12.6	-42.64	-13
Horizontal	High	1	0	5318	-49.81	-44.45	3.05	13.1	-34.40	-13
Horizontal	High	1	0	7090	-58.61	-44.12	3.65	11.5	-36.27	-13
Vertical	High	1	0	3545	-53.32	-52.60	2.53	12.6	-42.53	-13
Vertical	High	1	0	5318	-48.34	-43.12	3.05	13.1	-33.07	-13
Vertical	High	1	0	7090	-58.49	-44.31	3.65	11.5	-36.46	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/06/08	Test Site	Site3
Test Condition	Band 66 (20M) QPSK	Test Range	9kHz ~18GHz

Polarity	CH	RB No.	RB Offset	Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
								Gain (dBi)		
Horizontal	Low	1	0	3440	-53.94	-53.85	2.53	12.6	-43.78	-13
Horizontal	Low	1	0	5160	-49.69	-43.72	3.05	13.1	-33.67	-13
Horizontal	Low	1	0	6880	-55.88	-44.48	3.65	11.5	-36.63	-13
Vertical	Low	1	0	3440	-54.35	-54.17	2.53	12.6	-44.10	-13
Vertical	Low	1	0	5160	-48.71	-42.84	3.05	13.1	-32.79	-13
Vertical	Low	1	0	6880	-56.99	-45.60	3.65	11.5	-37.75	-13

Horizontal	Mid	1	50	3490	-52.01	-51.24	2.53	12.6	-41.17	-13
Horizontal	Mid	1	50	5235	-47.75	-42.38	3.05	13.1	-32.33	-13
Horizontal	Mid	1	50	6980	-55.82	-43.01	3.65	11.5	-35.16	-13
Vertical	Mid	1	50	3490	-52.40	-51.79	2.53	12.6	-41.72	-13
Vertical	Mid	1	50	5235	-46.82	-41.80	3.05	13.1	-31.75	-13
Vertical	Mid	1	50	6980	-56.33	-44.24	3.65	11.5	-36.39	-13

Horizontal	High	1	0	3540	-52.45	-51.58	2.53	12.6	-41.51	-13
Horizontal	High	1	0	5310	-50.42	-45.06	3.05	13.1	-35.01	-13
Horizontal	High	1	0	7080	-57.98	-43.73	3.65	11.5	-35.88	-13
Vertical	High	1	0	3540	-52.41	-51.70	2.53	12.6	-41.63	-13
Vertical	High	1	0	5310	-49.08	-43.91	3.05	13.1	-33.86	-13
Vertical	High	1	0	7080	-57.14	-44.14	3.65	11.5	-36.29	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/06/08	Test Site	Site3
Test Condition	2UL CA 5B 10M+10M QPSK	Test Range	9kHz ~10GHz

Polarity	CH	PCC			SCC			Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP Value (dBm)	Limit (dBm)
		MHz	RB No.	RB Offset	MHz	RB No.	RB Offset							
Horizontal	Low	829	1	49	838.9	1	0	1668	-37.00	-40.93	1.63	9.8	-32.76	-13
Horizontal	Low	829	1	49	838.9	1	0	2503	-53.81	-53.54	2.10	10.6	-45.04	-13
Horizontal	Low	829	1	49	838.9	1	0	3316	-60.19	-60.02	2.35	12.3	-50.07	-13
Vertical	Low	829	1	49	838.9	1	0	1669	-42.93	-46.82	1.63	9.8	-38.65	-13
Vertical	Low	829	1	49	838.9	1	0	2503	-52.36	-51.99	2.10	10.6	-43.49	-13
Vertical	Low	829	1	49	838.9	1	0	3316	-59.73	-59.59	2.35	12.3	-49.64	-13

Horizontal	Mid	831.6	1	49	841.5	1	0	1674	-38.45	-42.39	1.63	9.8	-34.22	-13
Horizontal	Mid	831.6	1	49	841.5	1	0	2511	-53.74	-53.43	2.10	10.6	-44.93	-13
Horizontal	Mid	831.6	1	49	841.5	1	0	3346	-60.34	-60.24	2.35	12.3	-50.29	-13
Vertical	Mid	831.6	1	49	841.5	1	0	1673	-43.08	-46.93	1.63	9.8	-38.76	-13
Vertical	Mid	831.6	1	49	841.5	1	0	2510	-55.45	-55.04	2.10	10.6	-46.54	-13
Vertical	Mid	831.6	1	49	841.5	1	0	3338	-59.38	-59.23	2.35	12.3	-49.28	-13

Horizontal	High	834.1	1	49	844	1	0	1678	-31.73	-35.67	1.63	9.8	-27.50	-13
Horizontal	High	834.1	1	49	844	1	0	2518	-48.83	-48.48	2.10	10.6	-39.98	-13
Horizontal	High	834.1	1	49	844	1	0	3357	-58.09	-58.01	2.35	12.3	-48.06	-13
Vertical	High	834.1	1	49	844	1	0	1679	-38.27	-42.07	1.63	9.8	-33.90	-13
Vertical	High	834.1	1	49	844	1	0	2517	-51.81	-51.36	2.10	10.6	-42.86	-13
Vertical	High	834.1	1	49	844	1	0	3376	-60.63	-60.47	2.35	12.3	-50.52	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 4 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/06/08	Test Site	Site3
Test Condition	2UL CA 66B 10M+10M QPSK	Test Range	9kHz ~18GHz

Polarity	CH	PCC			SCC			Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP Value (dBm)	Limit (dBm)
		MHz	RB No.	RB Offset	MHz	RB No.	RB Offset							
Horizontal	Low	1715	1	49	1724.9	1	0	3439	-56.60	-56.34	2.53	12.6	-46.27	-13
Horizontal	Low	1715	1	49	1724.9	1	0	5158	-51.17	-45.42	3.05	13.1	-35.37	-13
Horizontal	Low	1715	1	49	1724.9	1	0	6974	-56.22	-43.48	3.65	11.5	-35.63	-13
Vertical	Low	1715	1	49	1724.9	1	0	3441	-56.07	-55.77	2.53	12.6	-45.70	-13
Vertical	Low	1715	1	49	1724.9	1	0	5158	-51.42	-45.91	3.05	13.1	-35.86	-13
Vertical	Low	1715	1	49	1724.9	1	0	6996	-55.88	-43.77	3.65	11.5	-35.92	-13

Horizontal	Mid	1750.1	1	49	1760	1	0	3511	-53.08	-52.21	2.53	12.6	-42.14	-13
Horizontal	Mid	1750.1	1	49	1760	1	0	5264	-51.98	-46.61	3.05	13.1	-36.56	-13
Horizontal	Mid	1750.1	1	49	1760	1	0	6988	-56.05	-43.17	3.65	11.5	-35.32	-13
Vertical	Mid	1750.1	1	49	1760	1	0	3509	-55.03	-54.34	2.53	12.6	-44.27	-13
Vertical	Mid	1750.1	1	49	1760	1	0	5264	-53.33	-48.22	3.05	13.1	-38.17	-13
Vertical	Mid	1750.1	1	49	1760	1	0	6932	-55.55	-43.54	3.65	11.5	-35.69	-13

Horizontal	High	1765.1	1	49	1775	1	0	3539	-55.15	-54.28	2.53	12.6	-44.21	-13
Horizontal	High	1765.1	1	49	1775	1	0	5308	-50.85	-45.46	3.05	13.1	-35.41	-13
Horizontal	High	1765.1	1	49	1775	1	0	6930	-57.50	-45.20	3.65	11.5	-37.35	-13
Vertical	High	1765.1	1	49	1775	1	0	3539	-56.14	-55.40	2.53	12.6	-45.33	-13
Vertical	High	1765.1	1	49	1775	1	0	5308	-50.59	-45.33	3.05	13.1	-35.28	-13
Vertical	High	1765.1	1	49	1775	1	0	6975	-55.56	-43.48	3.65	11.5	-35.63	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/06/08	Test Site	Site3
Test Condition	2UL CA 66C 20M+20M QPSK	Test Range	9kHz ~18GHz

Polarity	CH	PCC			SCC			Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP Value (dBm)	Limit (dBm)
		MHz	RB No.	RB Offset	MHz	RB No.	RB Offset							
Horizontal	Low	1720	1	99	1739.8	1	0	3458	-56.98	-56.53	2.53	12.6	-46.46	-13
Horizontal	Low	1720	1	99	1739.8	1	0	5187	-52.08	-46.58	3.05	13.1	-36.53	-13
Horizontal	Low	1720	1	99	1739.8	1	0	6998	-56.10	-43.12	3.65	11.5	-35.27	-13
Vertical	Low	1720	1	99	1739.8	1	0	3458	-54.41	-54.00	2.53	12.6	-43.93	-13
Vertical	Low	1720	1	99	1739.8	1	0	5187	-55.05	-49.96	3.05	13.1	-39.91	-13
Vertical	Low	1720	1	99	1739.8	1	0	6951	-55.10	-43.06	3.65	11.5	-35.21	-13

Horizontal	Mid	1745.1	1	99	1764.9	1	0	3508	-54.45	-53.58	2.53	12.6	-43.51	-13
Horizontal	Mid	1745.1	1	99	1764.9	1	0	5262	-48.35	-42.98	3.05	13.1	-32.93	-13
Horizontal	Mid	1745.1	1	99	1764.9	1	0	7000	-55.61	-42.61	3.65	11.5	-34.76	-13
Vertical	Mid	1745.1	1	99	1764.9	1	0	3508	-54.82	-54.14	2.53	12.6	-44.07	-13
Vertical	Mid	1745.1	1	99	1764.9	1	0	5262	-50.56	-45.46	3.05	13.1	-35.41	-13
Vertical	Mid	1745.1	1	99	1764.9	1	0	6974	-55.78	-43.70	3.65	11.5	-35.85	-13

Horizontal	High	1750.2	1	99	1770	1	0	3518	-56.49	-55.62	2.53	12.6	-45.55	-13
Horizontal	High	1750.2	1	99	1770	1	0	5278	-51.20	-45.84	3.05	13.1	-35.79	-13
Horizontal	High	1750.2	1	99	1770	1	0	6992	-55.08	-42.15	3.65	11.5	-34.30	-13
Vertical	High	1750.2	1	99	1770	1	0	3518	-55.16	-54.46	2.53	12.6	-44.39	-13
Vertical	High	1750.2	1	99	1770	1	0	5277	-53.85	-48.70	3.05	13.1	-38.65	-13
Vertical	High	1750.2	1	99	1770	1	0	6945	-56.03	-44.00	3.65	11.5	-36.15	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.



Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/07/30	Test Site	Site3

Test Condition		2UL CA 2A+2A 10M+10M 64QAM					Test Range		9kHz ~20GHz				
Polarity	PCC			SCC			Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP Value (dBm)	Limit (dBm)
	MHz	RB No.	RB Offset	MHz	RB No.	RB Offset							
Horizontal	1855	50	0	1905	50	0	3713	-44.87	-57.31	2.53	12.6	-47.24	-13
Horizontal	1855	50	0	1905	50	0	5564	-46.17	-54.61	3.05	13.1	-44.56	-13
Horizontal	1855	50	0	1905	50	0	7400	-54.97	-59.25	3.65	11.5	-51.40	-13
Vertical	1855	50	0	1905	50	0	3710	-47.22	-57.29	2.53	12.6	-47.22	-13
Vertical	1855	50	0	1905	50	0	5569	-43.25	-53.30	3.05	13.1	-43.25	-13
Vertical	1855	50	0	1905	50	0	7420	-53.17	-61.02	3.65	11.5	-53.17	-13

Test Condition		2UL CA 4A+4A 20M+20M 64QAM					Test Range		9kHz ~20GHz				
Polarity	PCC			SCC			Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP Value (dBm)	Limit (dBm)
	MHz	RB No.	RB Offset	MHz	RB No.	RB Offset							
Horizontal	1720	100	0	1745	100	0	3491	-49.58	-62.21	2.53	12.6	-52.14	-13
Horizontal	1720	100	0	1745	100	0	5164	-52.34	-61.04	3.05	13.1	-50.99	-13
Horizontal	1720	100	0	1745	100	0	6881	-54.68	-58.86	3.65	11.5	-51.01	-13
Vertical	1720	100	0	1745	100	0	3440	-50.45	-59.65	2.53	12.6	-49.58	-13
Vertical	1720	100	0	1745	100	0	5229	-52.86	-62.09	3.05	13.1	-52.04	-13
Vertical	1720	100	0	1745	100	0	6881	-54.52	-65.26	3.65	11.5	-57.41	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/07/30	Test Site	Site3
Test Condition	2UL CA 2A+66A 20M+20M QPSK	Test Range	9kHz ~20GHz

Polarity	PCC			Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
	MHz	RB No.	RB Offset					Gain (dBi)		
Horizontal	1860	1	99	3720	-37.14	-49.32	2.53	12.6	-39.25	-13
Horizontal	1860	1	99	5580	-36.74	-45.07	3.05	13.1	-35.02	-13
Horizontal	1860	1	99	7440	-52.49	-56.83	3.65	11.5	-48.98	-13
Vertical	1860	1	99	3720	-40.21	-52.76	2.53	12.6	-42.69	-13
Vertical	1860	1	99	5580	-34.58	-43.87	3.05	13.1	-33.82	-13
Vertical	1860	1	99	7440	-48.77	-52.89	3.65	11.5	-45.04	-13

Polarity	SCC			Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
	MHz	RB No.	RB Offset					Gain (dBi)		
Horizontal	1770	1	0	3540	-41.30	-53.69	2.53	12.6	-43.62	-13
Horizontal	1770	1	0	5310	-46.79	-55.15	3.05	13.1	-45.10	-13
Horizontal	1770	1	0	7080	-50.72	-55.03	3.65	11.5	-47.18	-13
Vertical	1770	1	0	3540	-49.52	-62.42	2.53	12.6	-52.35	-13
Vertical	1770	1	0	5310	-39.02	-48.50	3.05	13.1	-38.45	-13
Vertical	1770	1	0	7080	-44.98	-49.35	3.65	11.5	-41.50	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/07/30	Test Site	Site3
Test Condition	2UL CA 2A+5A 20M+10M 16QAM	Test Range	9kHz ~20GHz

Polarity	PCC			Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
	MHz	RB No.	RB Offset					Gain (dBi)		
Horizontal	1860	100	0	3720	-45.27	-57.63	2.53	12.6	-47.56	-13
Horizontal	1860	100	0	5580	-44.58	-52.99	3.05	13.1	-42.94	-13
Horizontal	1860	100	0	7440	-54.94	-59.25	3.65	11.5	-51.40	-13
Vertical	1860	100	0	3720	-48.42	-61.07	2.53	12.6	-51.00	-13
Vertical	1860	100	0	5580	-44.96	-54.23	3.05	13.1	-44.18	-13
Vertical	1860	100	0	7440	-54.18	-58.36	3.65	11.5	-50.51	-13

Polarity	SCC			Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
	MHz	RB No.	RB Offset					Gain (dBi)		
Horizontal	844	50	0	1688	-54.70	-71.47	1.63	9.8	-63.30	-13
Horizontal	844	50	0	2532	-52.54	-67.08	2.10	10.6	-58.58	-13
Horizontal	844	50	0	3376	-52.70	-66.37	2.35	12.3	-56.42	-13
Vertical	844	50	0	1688	-55.01	-71.46	1.63	9.8	-63.29	-13
Vertical	844	50	0	2532	-52.44	-66.41	2.10	10.6	-57.91	-13
Vertical	844	50	0	3376	-54.42	-68.26	2.35	12.3	-58.31	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/07/30	Test Site	Site3
Test Condition	2UL CA 2A+13A 20M+10M 16QAM	Test Range	9kHz ~20GHz

Polarity	PCC			Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
	MHz	RB No.	RB Offset					Gain (dBi)		
Horizontal	1860	1	99	3720	-37.02	-49.20	2.53	12.6	-39.13	-13
Horizontal	1860	1	99	5580	-35.85	-44.18	3.05	13.1	-34.13	-13
Horizontal	1860	1	99	7440	-52.50	-56.84	3.65	11.5	-48.99	-13
Vertical	1860	1	99	3720	-37.54	-50.09	2.53	12.6	-40.02	-13
Vertical	1860	1	99	5580	-34.03	-43.33	3.05	13.1	-33.28	-13
Vertical	1860	1	99	7440	-50.12	-54.24	3.65	11.5	-46.39	-13

Polarity	SCC			Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
	MHz	RB No.	RB Offset					Gain (dBi)		
Horizontal	782	1	0	1564	-41.03	-58.15	1.63	9.8	-49.98	-40
Horizontal	782	1	0	2346	-51.62	-65.57	2.10	10.6	-57.07	-13
Horizontal	782	1	0	3128	-52.81	-67.28	2.35	12.3	-57.33	-13
Vertical	782	1	0	1564	-45.83	-63.26	1.63	9.8	-55.09	-40
Vertical	782	1	0	2346	-56.99	-65.49	2.10	10.6	-56.99	-13
Vertical	782	1	0	3128	-55.80	-65.75	2.35	12.3	-55.80	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/07/30	Test Site	Site3
Test Condition	2UL CA 4A+5A 20M+10M 16QAM	Test Range	9kHz ~20GHz

Polarity	PCC			Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
	MHz	RB No.	RB Offset					Gain (dBi)		
Horizontal	1720	100	0	3440	-48.30	-61.63	2.53	12.6	-51.56	-13
Horizontal	1720	100	0	5160	-44.01	-52.71	3.05	13.1	-42.66	-13
Horizontal	1720	100	0	6880	-53.22	-57.40	3.65	11.5	-49.55	-13
Vertical	1720	100	0	3440	-48.03	-61.67	2.53	12.6	-51.60	-13
Vertical	1720	100	0	5160	-46.85	-56.10	3.05	13.1	-46.05	-13
Vertical	1720	100	0	6880	-52.48	-56.99	3.65	11.5	-49.14	-13

Polarity	SCC			Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
	MHz	RB No.	RB Offset					Gain (dBi)		
Horizontal	844	50	0	1688	-54.77	-71.65	1.63	9.8	-63.48	-13
Horizontal	844	50	0	2532	-51.57	-66.06	2.10	10.6	-57.56	-13
Horizontal	844	50	0	3376	-52.37	-66.05	2.35	12.3	-56.10	-13
Vertical	844	50	0	1688	-55.01	-71.46	1.63	9.8	-63.29	-13
Vertical	844	50	0	2532	-51.72	-65.75	2.10	10.6	-57.25	-13
Vertical	844	50	0	3376	-52.86	-66.70	2.35	12.3	-56.75	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/07/30	Test Site	Site3
Test Condition	2UL CA 4A+13A 20M+10M QPSK	Test Range	9kHz ~20GHz

Polarity	PCC			Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
	MHz	RB No.	RB Offset					Gain (dBi)		
Horizontal	1720	100	0	3440	-47.69	-61.01	2.53	12.6	-50.94	-13
Horizontal	1720	100	0	5160	-43.96	-52.65	3.05	13.1	-42.60	-13
Horizontal	1720	100	0	6880	-52.47	-56.65	3.65	11.5	-48.80	-13
Vertical	1720	100	0	3440	-46.52	-60.14	2.53	12.6	-50.07	-13
Vertical	1720	100	0	5160	-47.40	-56.65	3.05	13.1	-46.60	-13
Vertical	1720	100	0	6880	-50.93	-55.44	3.65	11.5	-47.59	-13

Polarity	SCC			Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
	MHz	RB No.	RB Offset					Gain (dBi)		
Horizontal	782	50	0	1564	-42.00	-58.60	1.63	9.8	-50.43	-40
Horizontal	782	50	0	2346	-52.74	-66.99	2.10	10.6	-58.49	-13
Horizontal	782	50	0	3128	-51.51	-65.92	2.35	12.3	-55.97	-13
Vertical	782	50	0	1564	-45.43	-63.16	1.63	9.8	-54.99	-40
Vertical	782	50	0	2346	-51.44	-64.87	2.10	10.6	-56.37	-13
Vertical	782	50	0	3128	-52.21	-65.57	2.35	12.3	-55.62	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/07/30	Test Site	Site3
Test Condition	2UL CA 5A+66A 10M+20M 16QAM	Test Range	9kHz ~20GHz

Polarity	PCC			Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
	MHz	RB No.	RB Offset					Gain (dBi)		
Horizontal	844	50	0	1688	-56.77	-73.69	1.63	9.8	-65.52	-13
Horizontal	844	50	0	2532	-52.07	-66.68	2.10	10.6	-58.18	-13
Horizontal	844	50	0	3376	-52.01	-65.66	2.35	12.3	-55.71	-13
Vertical	844	50	0	1688	-55.04	-71.58	1.63	9.8	-63.41	-13
Vertical	844	50	0	2532	-51.76	-65.79	2.10	10.6	-57.29	-13
Vertical	844	50	0	3376	-52.15	-65.96	2.35	12.3	-56.01	-13

Polarity	SCC			Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
	MHz	RB No.	RB Offset					Gain (dBi)		
Horizontal	1770	100	0	3540	-50.14	-63.47	2.53	12.6	-53.40	-13
Horizontal	1770	100	0	5310	-53.77	-62.48	3.05	13.1	-52.43	-13
Horizontal	1770	100	0	7080	-55.25	-59.43	3.65	11.5	-51.58	-13
Vertical	1770	100	0	3540	-51.29	-64.97	2.53	12.6	-54.90	-13
Vertical	1770	100	0	5310	-49.15	-58.42	3.05	13.1	-48.37	-13
Vertical	1770	100	0	7080	-53.47	-57.98	3.65	11.5	-50.13	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/07/30	Test Site	Site3
Test Condition	2UL CA 13A+2A 10M+20M 16QAM	Test Range	9kHz ~20GHz

Polarity	PCC			Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
	MHz	RB No.	RB Offset					Gain (dBi)		
Horizontal	782	50	0	1564	-41.19	-57.84	1.63	9.8	-49.67	-40
Horizontal	782	50	0	2346	-51.95	-65.83	2.10	10.6	-57.33	-13
Horizontal	782	50	0	3128	-51.71	-66.19	2.35	12.3	-56.24	-13
Vertical	782	50	0	1564	-47.44	-64.80	1.63	9.8	-56.63	-40
Vertical	782	50	0	2346	-51.93	-65.33	2.10	10.6	-56.83	-13
Vertical	782	50	0	3128	-52.38	-65.54	2.35	12.3	-55.59	-13

Polarity	SCC			Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
	MHz	RB No.	RB Offset					Gain (dBi)		
Horizontal	1860	100	0	3720	-50.60	-62.86	2.53	12.6	-52.79	-13
Horizontal	1860	100	0	5580	-50.42	-58.83	3.05	13.1	-48.78	-13
Horizontal	1860	100	0	7440	-55.82	-60.11	3.65	11.5	-52.26	-13
Vertical	1860	100	0	3720	-51.20	-63.88	2.53	12.6	-53.81	-13
Vertical	1860	100	0	5580	-44.75	-53.98	3.05	13.1	-43.93	-13
Vertical	1860	100	0	7440	-56.32	-60.50	3.65	11.5	-52.65	-13

## Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.



Product	LTE Module		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2020/07/30	Test Site	Site3
Test Condition	2UL CA 13A+66A 10M+20M 16QAM	Test Range	9kHz ~20GHz

Polarity	PCC			Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
	MHz	RB No.	RB Offset					Gain (dBi)		
Horizontal	782	50	0	1564	-40.61	-56.54	1.63	9.8	-48.37	-40
Horizontal	782	50	0	2346	-52.02	-66.36	2.10	10.6	-57.86	-13
Horizontal	782	50	0	3128	-52.36	-66.75	2.35	12.3	-56.80	-13
Vertical	782	50	0	1564	-47.90	-65.58	1.63	9.8	-57.11	-40
Vertical	782	50	0	2346	-52.27	-65.38	2.10	10.6	-56.88	-13
Vertical	782	50	0	3128	-51.86	-65.28	2.35	12.3	-55.33	-13

Polarity	SCC			Frequency (GHz)	Reading Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna	EIRP Value (dBm)	Limit (dBm)
	MHz	RB No.	RB Offset					Gain (dBi)		
Horizontal	1770	100	0	3540	-50.96	-64.29	2.53	12.6	-54.22	-13
Horizontal	1770	100	0	5310	-52.78	-61.48	3.05	13.1	-51.43	-13
Horizontal	1770	100	0	7080	-54.96	-59.14	3.65	11.5	-51.29	-13
Vertical	1770	100	0	3540	-50.41	-64.07	2.53	12.6	-54.00	-13
Vertical	1770	100	0	5310	-49.81	-59.08	3.05	13.1	-49.03	-13
Vertical	1770	100	0	7080	-54.11	-58.62	3.65	11.5	-50.77	-13

## Note:

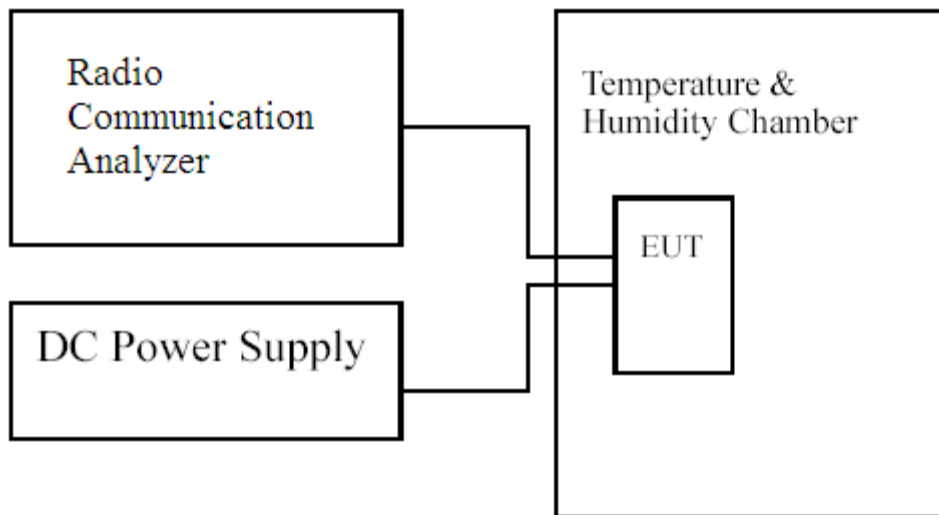
1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 8 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

## 7. Frequency Stability Under Temperature & Voltage Variations

### 7.1. Test Specification

According to Part 2.1055, 22.355, 24.235, 27.54

### 7.2. Test Setup



### 7.3. Limits

Limit	$<\pm 2.5\text{ppm}$
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### 7.4. Test Procedure

The frequency stability of transmitter is measured by:

- (a) Temperature: The temperature is varied from  $-30^{\circ}\text{C}$  to  $50^{\circ}\text{C}$  in  $10^{\circ}\text{C}$  increment using a standard temperature & Humidity chamber.
- (b) Primary Supply Voltage: The primary supply voltage is varied 85% to 115% of the nominal value for non hand-carried equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating endpoint which shall be specified by the manufacturer.

The EUT was connected via the base station simulator. Universal Radio Communication Tester, was used to measure The Frequency Error. The maximum result of measurements was recorded.

## 7.5. Test Result of Frequency Stability Under Temperature Variations

Product	LTE Module		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2020/06/04	Test Site	CTR
Test Condition	Band 2 CH18900(1880MHz) –QPSK	Test Range	-30°C ~+50°C

### Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Channel	Deviation (kHz)						Limit (kHz)
		1.4M	3M	5M	10M	15M	20M	
-30	Mid	-0.0105	-0.0105	-0.0108	0.0103	0.0092	-0.0117	±4.70
-20	Mid	-0.0107	0.0104	-0.0940	0.0091	0.0099	-0.0112	±4.70
-10	Mid	0.0112	-0.0107	-0.0095	-0.0086	-0.0093	0.0075	±4.70
0	Mid	0.0112	0.0096	-0.0083	-0.0086	-0.0074	-0.0108	±4.70
10	Mid	-0.0121	-0.0117	-0.0118	-0.0112	-0.0136	0.0123	±4.70
20	Mid	-0.0174	-0.0107	-0.0121	-0.0114	-0.0124	-0.0102	±4.70
30	Mid	-0.0148	0.0117	0.0108	0.0128	-0.0128	-0.0103	±4.70
40	Mid	-0.0190	-0.0143	-0.0109	0.0136	-0.0103	0.0106	±4.70
50	Mid	-0.0160	-0.0148	-0.0138	-0.0117	0.0103	0.0129	±4.70

### Voltage Variations

DC Voltage (V)	Test Channel	Deviation (kHz)						Limit (kHz)
		1.4M	3M	5M	10M	15M	20M	
3.795	Mid	-0.0160	0.0101	0.0117	0.0118	-0.0102	-0.0116	±4.70
3.3	Mid	-0.0174	-0.0107	-0.0121	-0.0114	-0.0124	-0.0102	±4.70
2.805	Mid	-0.0140	0.0110	0.0122	0.0130	0.0126	0.0120	±4.70

### DC Current

DC Current	1.4M	3M	5M	10M	15M	20M
LINK:	0.90	0.90	0.89	0.90	0.93	0.94
IDLE:	0.38	0.38	0.39	0.40	0.41	0.42

Product	LTE Module		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2020/06/04	Test Site	CTR
Test Condition	Band 5 CH20525(836.5MHz)-QPSK	Test Range	-30°C ~+50°C

#### Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Channel	Deviation (kHz)						Limit (kHz)
		1.4M	3M	5M	10M	15M	20M	
-30	Mid	-0.0072	0.0097	-0.0083	-0.0060	--	--	±2.09
-20	Mid	-0.0078	0.0051	-0.0071	-0.0047	--	--	±2.09
-10	Mid	0.0064	0.0072	0.0049	0.0051	--	--	±2.09
0	Mid	0.0067	-0.0057	-0.0062	-0.0072	--	--	±2.09
10	Mid	-0.0073	-0.0084	0.0075	0.0055	--	--	±2.09
20	Mid	-0.0079	0.0076	-0.0070	-0.0067	--	--	±2.09
30	Mid	-0.0099	-0.0077	-0.0071	0.0066	--	--	±2.09
40	Mid	-0.0117	-0.0078	0.0059	-0.0060	--	--	±2.09
50	Mid	-0.0118	-0.0073	-0.0076	-0.0072	--	--	±2.09

#### Voltage Variations

DC Voltage (V)	Test Channel	Deviation (kHz)						Limit (kHz)
		1.4M	3M	5M	10M	15M	20M	
3.795	Mid	-0.0094	-0.0079	-0.0063	-0.0065	--	--	±2.09
3.3	Mid	-0.0079	0.0076	-0.0070	-0.0067	--	--	±2.09
2.805	Mid	0.0077	0.0115	-0.0060	0.0072	--	--	±2.09

#### DC Current

DC Current	1.4M	3M	5M	10M	15M	20M
LINK:	0.82	0.82	0.82	0.81	--	--
IDLE:	0.35	0.36	0.36	0.36	--	--

Product	LTE Module		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2020/06/04	Test Site	CTR
Test Condition	Band 13 CH23230(782MHz)-QPSK	Test Range	-30°C ~+50°C

## Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Channel	Deviation (kHz)						Limit (kHz)
		1.4M	3M	5M	10M	15M	20M	
-30	Mid	--	--	-0.0051	-0.0053	--	--	±1.96
-20	Mid	--	--	0.0052	0.0049	--	--	±1.96
-10	Mid	--	--	-0.0040	-0.0061	--	--	±1.96
0	Mid	--	--	0.0066	-0.0059	--	--	±1.96
10	Mid	--	--	0.0047	-0.0049	--	--	±1.96
20	Mid	--	--	-0.0071	0.0055	--	--	±1.96
30	Mid	--	--	-0.0064	-0.0063	--	--	±1.96
40	Mid	--	--	-0.0068	0.0065	--	--	±1.96
50	Mid	--	--	0.0052	0.0070	--	--	±1.96

## Voltage Variations

DC Voltage (V)	Test Channel	Deviation (kHz)						Limit (kHz)
		1.4M	3M	5M	10M	15M	20M	
3.795	Mid	--	--	-0.0064	0.0064	--	--	±1.96
3.3	Mid	--	--	-0.0071	0.0055	--	--	±1.96
2.805	Mid	--	--	-0.0063	0.0059	--	--	±1.96

## DC Current

DC Current	1.4M	3M	5M	10M	15M	20M
LINK:	--	--	0.87	0.86	--	--
IDLE:	--	--	0.37	0.38	--	--

Product	LTE Module		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2020/06/04	Test Site	CTR
Test Condition	Band 66 CH132322(1745MHz)-QPSK	Test Range	-30°C~+50°C

## Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Channel	Deviation (kHz)						Limit (kHz)
		1.4M	3M	5M	10M	15M	20M	
-30	Mid	-0.0104	-0.0128	-0.0103	-0.0101	-0.0102	0.0116	±4.36
-20	Mid	0.0081	-0.0130	0.0099	-0.0096	0.0075	0.0101	±4.36
-10	Mid	-0.0091	0.0108	-0.0086	-0.0093	0.0082	-0.0087	±4.36
0	Mid	-0.0107	-0.0115	0.0083	-0.0087	0.0086	-0.0095	±4.36
10	Mid	-0.0110	-0.0112	-0.0094	0.0091	-0.0083	-0.0082	±4.36
20	Mid	-0.0134	0.0137	-0.0111	-0.0120	-0.0136	-0.0122	±4.36
30	Mid	-0.0127	0.0117	-0.0107	0.0113	-0.0114	-0.0121	±4.36
40	Mid	-0.0128	0.0109	0.0110	-0.0111	-0.0107	0.0112	±4.36
50	Mid	-0.0148	-0.0109	-0.0107	-0.0107	0.0118	-0.0136	±4.36

## Voltage Variations

DC Voltage (V)	Test Channel	Deviation (kHz)						Limit (kHz)
		1.4M	3M	5M	10M	15M	20M	
3.795	Mid	-0.0106	0.0118	-0.0113	0.0114	-0.0109	-0.0100	±4.36
3.3	Mid	-0.0134	0.0137	-0.0111	-0.0120	-0.0136	-0.0122	±4.36
2.805	Mid	-0.0114	-0.0100	0.0122	-0.0129	0.0126	0.0108	±4.36

## DC Current

DC Current	1.4M	3M	5M	10M	15M	20M
LINK:	0.98	0.98	0.98	0.98	0.99	0.96
IDLE:	0.39	0.39	0.40	0.40	0.42	0.43

Product	LTE Module		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2020/06/04	Test Site	CTR
Test Condition	2UL_CA-QPSK	Test Range	-30°C~+50°C

Test Channel	Deviation (kHz)	Limit	Deviation (kHz)	Limit	Deviation (kHz)	Limit
	CA_5B 10M+10M	(kHz)	CA_66B 10M+10M	(kHz)	CA_66C 20M+20M	(kHz)
low	0.00544	2.07	-0.01047	4.29	0.01226	4.30
Mid	-0.00562	2.08	0.01124	4.38	0.01024	4.36
high	0.00552	2.09	-0.01116	4.41	0.01023	4.38
low	0.00512	2.07	-0.01061	4.29	0.00917	4.30
Mid	-0.00534	2.08	-0.01207	4.38	0.00936	4.36
high	-0.00538	2.09	-0.00976	4.41	-0.00835	4.38
low	-0.00508	2.07	-0.01057	4.29	0.01006	4.30
Mid	-0.00545	2.08	-0.01100	4.38	0.00843	4.36
high	0.00465	2.09	-0.01079	4.41	0.00998	4.38
low	-0.00509	2.07	-0.01054	4.29	-0.00923	4.30
Mid	-0.00576	2.08	-0.00927	4.38	0.01030	4.36
high	-0.00536	2.09	0.00898	4.41	0.00898	4.38
low	0.00504	2.07	0.00847	4.29	0.01100	4.30
Mid	0.00438	2.08	0.01043	4.38	-0.01009	4.36
high	0.00532	2.09	-0.01021	4.41	0.01091	4.38
low	0.00621	2.07	-0.01027	4.29	-0.00951	4.30
Mid	-0.00549	2.08	-0.00907	4.38	0.01169	4.36
high	0.00554	2.09	-0.01163	4.41	-0.00777	4.38
low	0.00491	2.07	-0.01252	4.29	0.00791	4.30
Mid	-0.00515	2.08	0.01142	4.38	-0.01232	4.36
high	0.00499	2.09	-0.01575	4.41	0.00966	4.38
low	0.00494	2.07	0.01083	4.29	0.00937	4.30
Mid	-0.00409	2.08	-0.01203	4.38	0.00936	4.36
high	-0.00538	2.09	-0.01269	4.41	-0.00950	4.38
low	-0.00518	2.07	-0.00927	4.29	-0.00941	4.30
Mid	-0.00594	2.08	0.01174	4.38	0.01024	4.36
high	0.00539	2.09	-0.01029	4.41	0.01164	4.38

Test Channel	Deviation (kHz)	Limit	Deviation (kHz)	Limit	Deviation (kHz)	Limit
	CA_5B 10M+10M	(kHz)	CA_66B 10M+10M	(kHz)	CA_66C 20M+20M	(kHz)
low	-0.00468	2.07	-0.01345	4.29	0.00974	4.30
Mid	-0.00486	2.08	0.01080	4.38	0.01049	4.36
high	-0.00505	2.09	-0.01197	4.41	0.01179	4.38
low	0.00621	2.07	-0.01027	4.29	-0.00951	4.30
Mid	-0.00549	2.08	0.00907	4.38	0.01169	4.36
high	0.00554	2.09	-0.01163	4.41	-0.00777	4.38
low	0.00431	2.07	-0.01044	4.29	-0.01051	4.30
Mid	-0.00484	2.08	0.01259	4.38	0.01167	4.36
high	0.00551	2.09	0.01209	4.41	0.01152	4.38

## DC Current

DC Current	CA_5B 10M+10M	CA_66B 10M+10M	CA_66C 20M+20M
LINK:	1.28	1.43	1.44
IDLE:	0.35	0.39	0.38

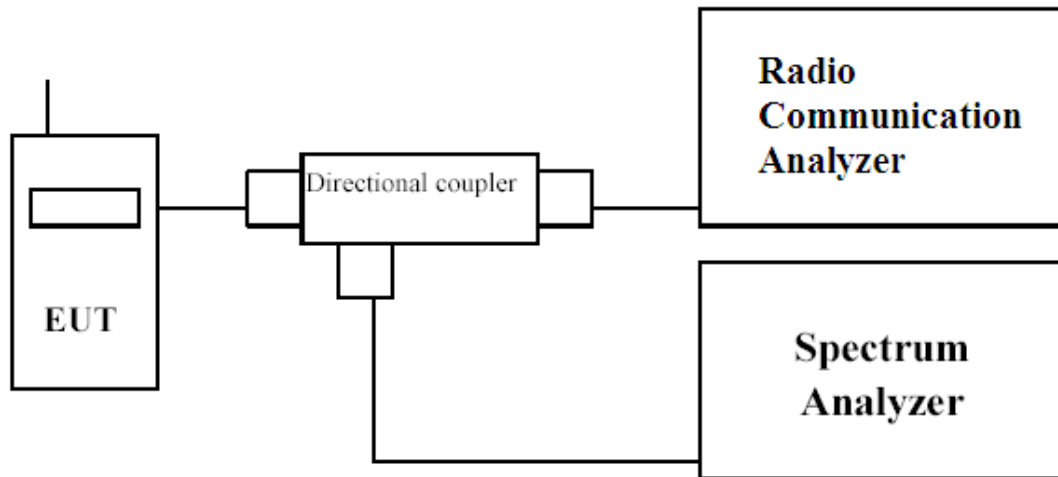


## 8. Peak to Average Ratio

### 8.1 Test Specification

According to Part 27.50(a)

### 8.2 Test Setup



### 8.3 Limits

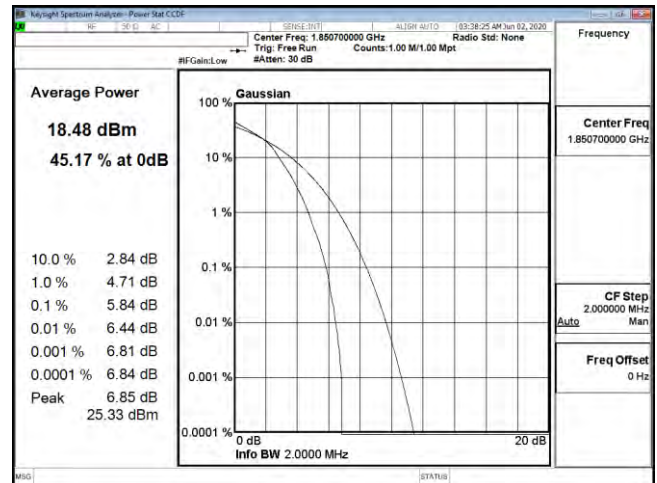
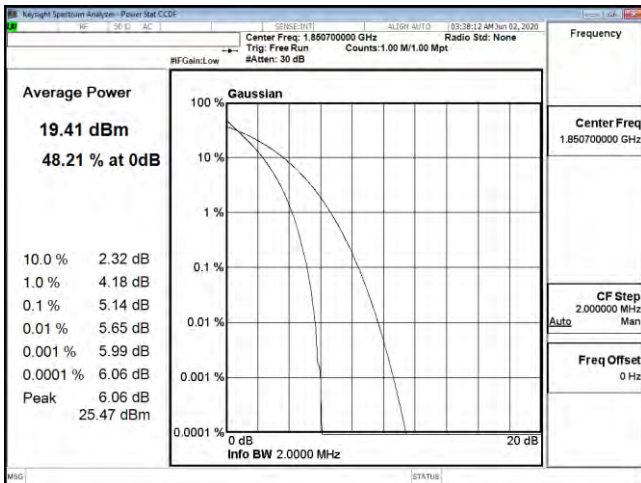
The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure.

### 8.4 Test Procedure

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:
  - 1) for continuous transmissions, set to 1 ms,
  - 2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
- e) Record the maximum PAPR level associated with a probability of 0.1%.

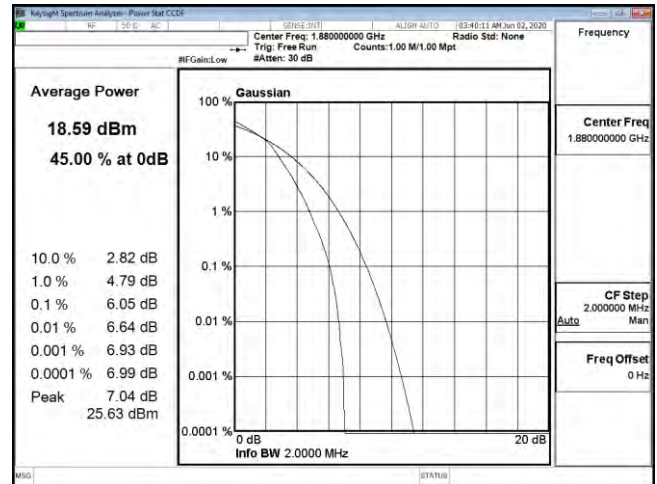
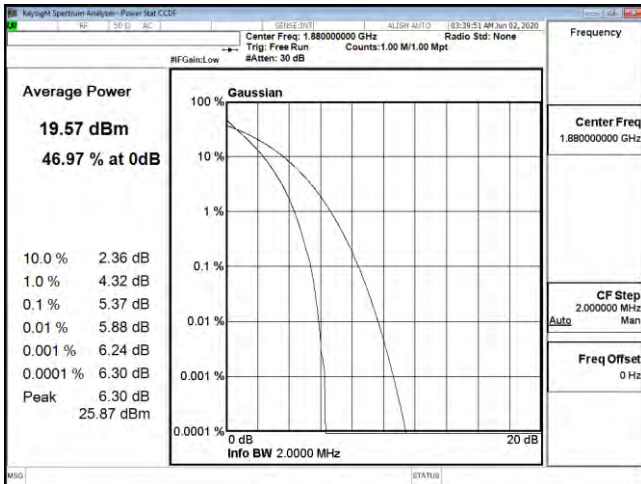
### 8.5 Test Result of Spurious Emission

Product	LTE Module		
Test Mode	Peak to Average Ratio		
Date of Test	2020/06/04	Test Site	CTR
Test Condition	LTE-Band 2 QPSK/16QAM		



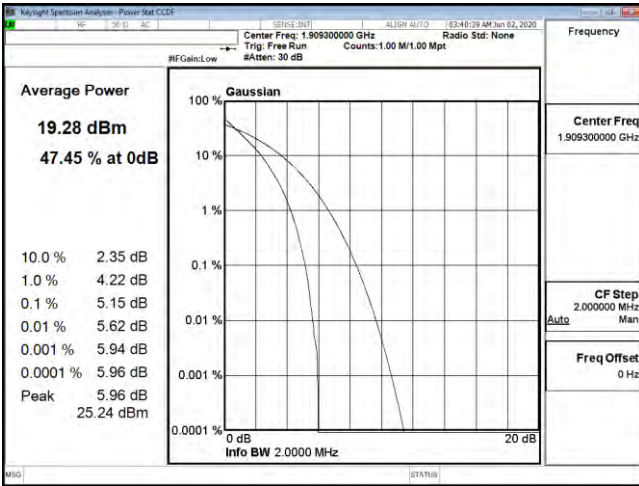
PTAR B2 1.4M CH18607 QPSK

PTAR B2 1.4M CH18607 16QAM

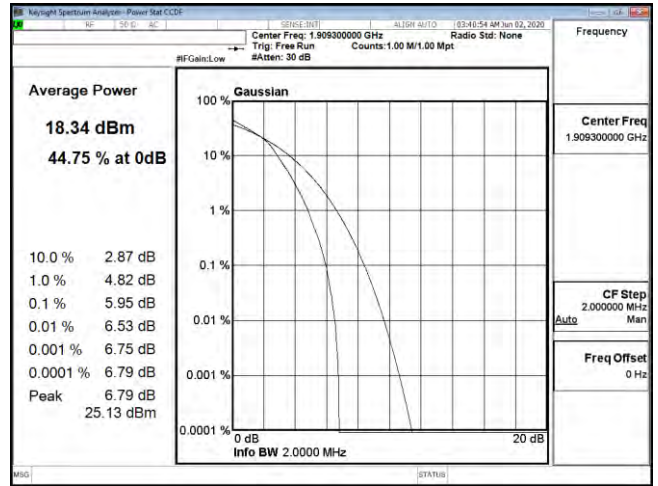


PTAR B2 1.4M CH18900 QPSK

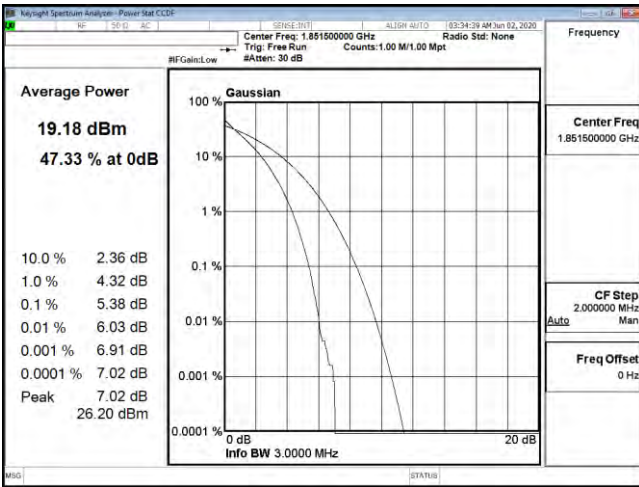
PTAR B2 1.4M CH18900 16QAM



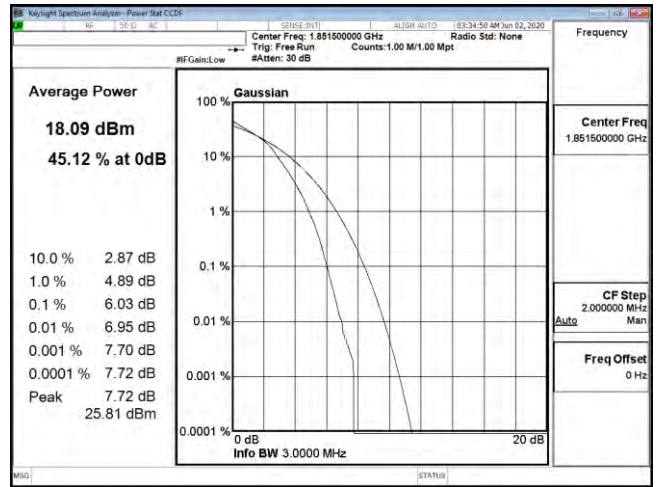
PTAR B2 1.4M CH19193 QPSK



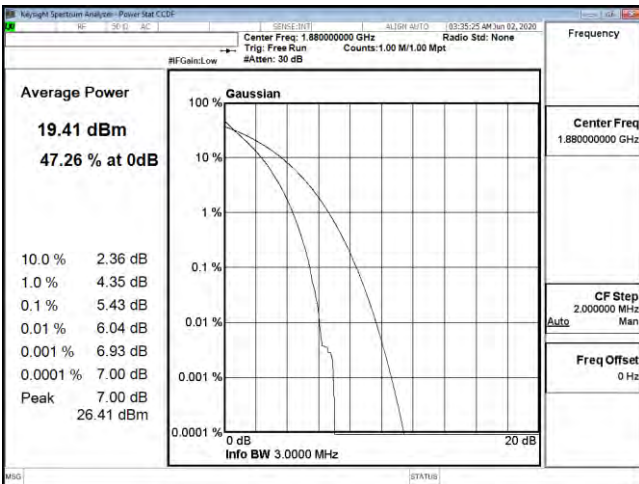
PTAR B2 1.4M CH19193 16QAM



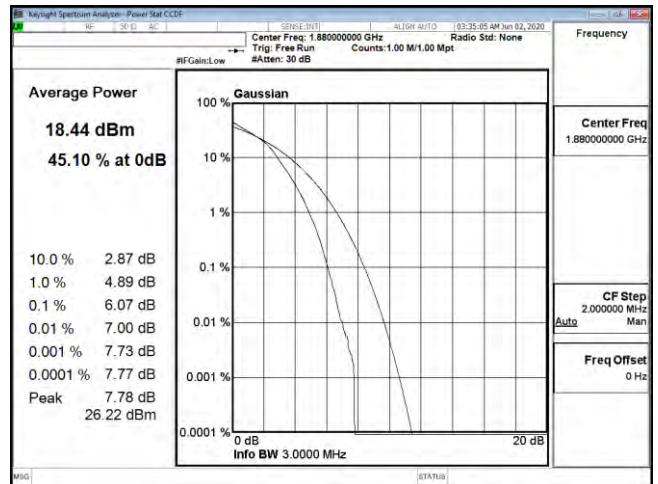
PTAR B2 3M CH18615 QPSK



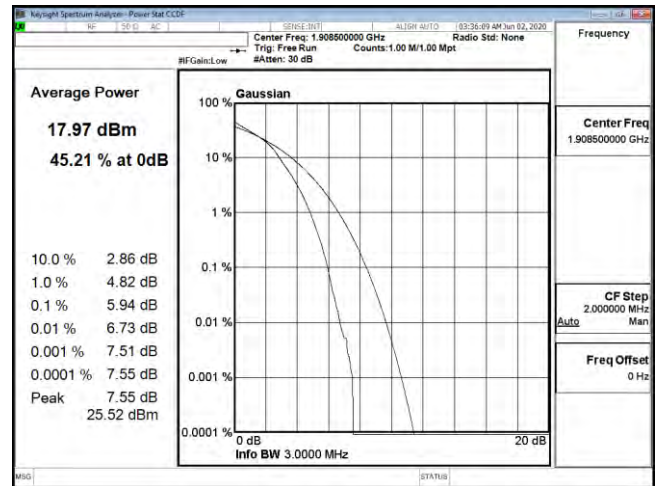
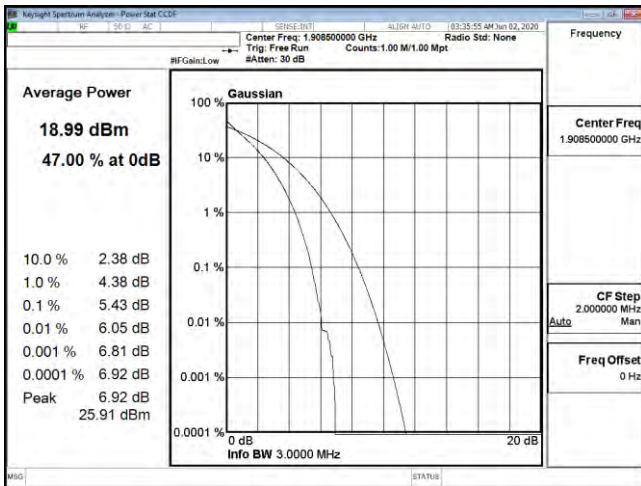
PTAR B2 3M CH18615 16QAM



PTAR B2 3M CH18900 QPSK

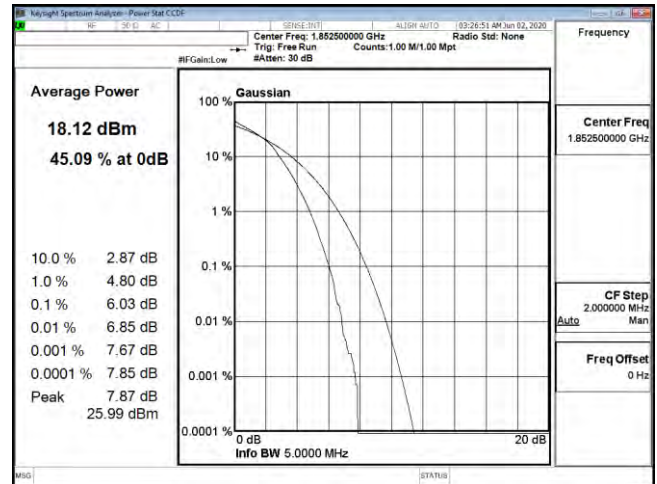
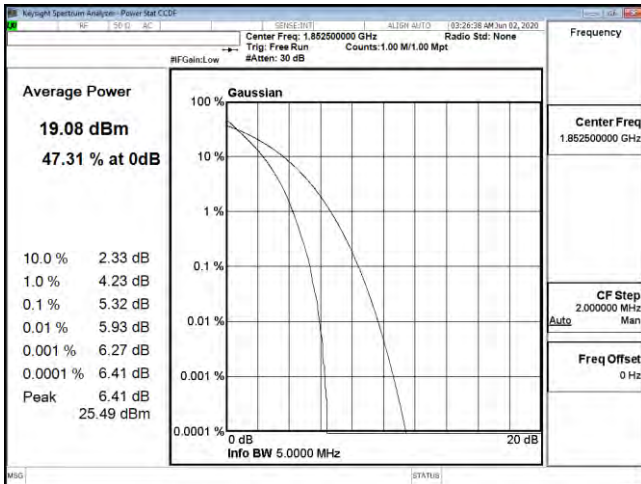


PTAR B2 3M CH18900 16QAM



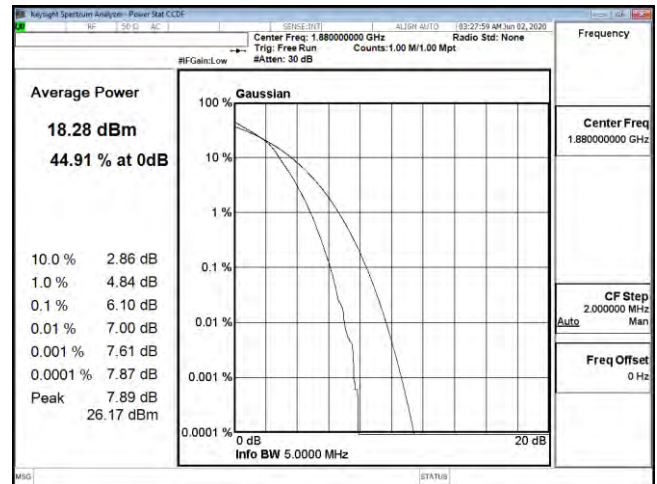
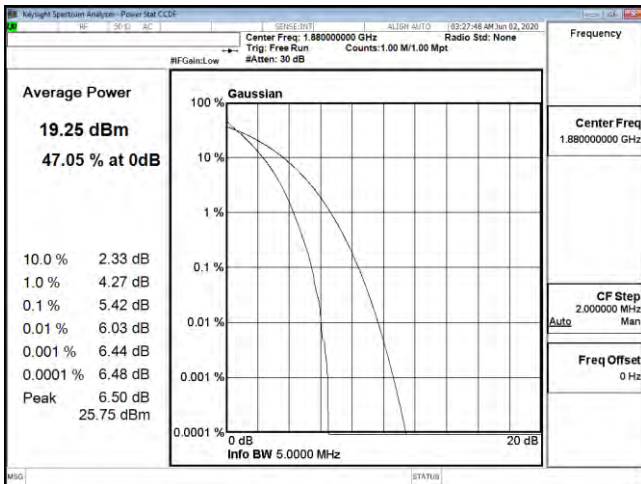
PTAR B2 3M CH19185 QPSK

PTAR B2 3M CH19185 16QAM



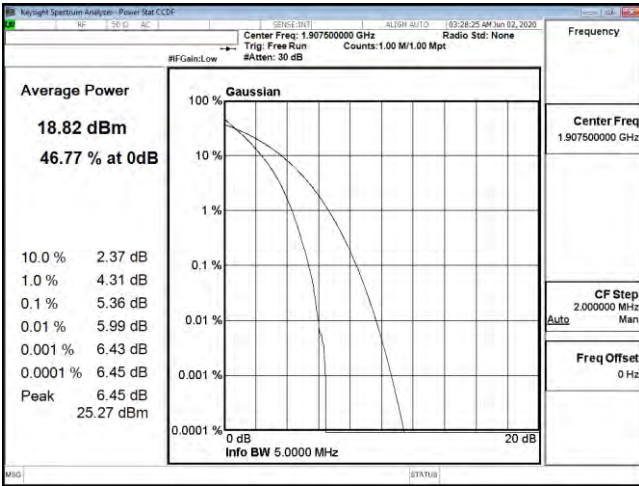
PTAR B2 5M CH18625 QPSK

PTAR B2 5M CH18625 16QAM

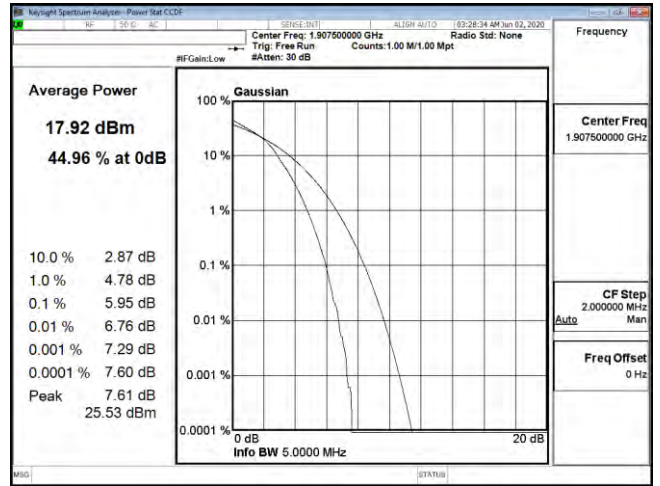


PTAR B2 5M CH18900 QPSK

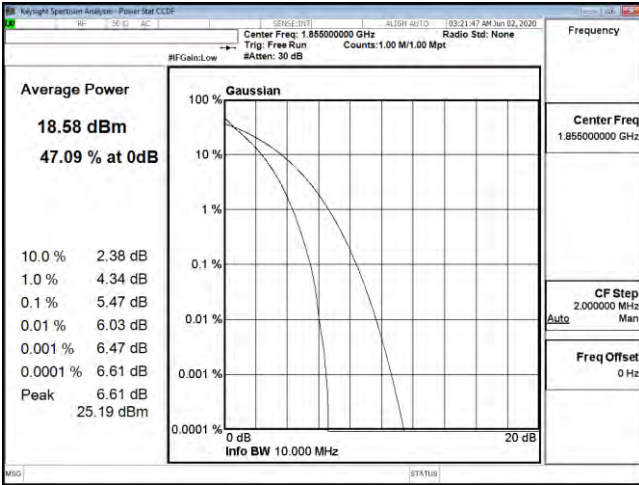
PTAR B2 5M CH18900 16QAM



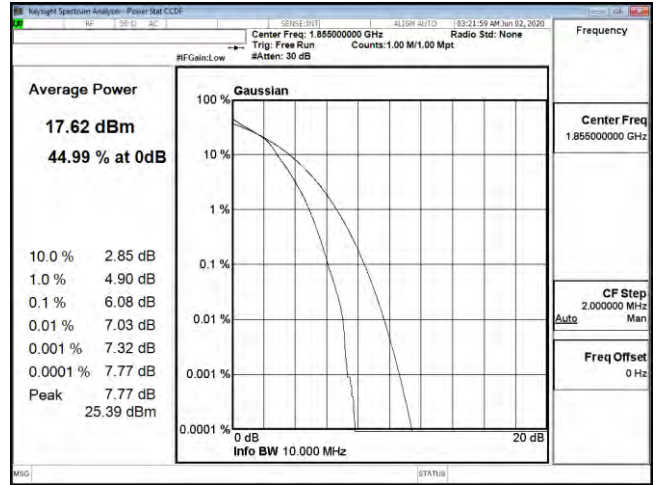
PTAR B2 5M CH19175 QPSK



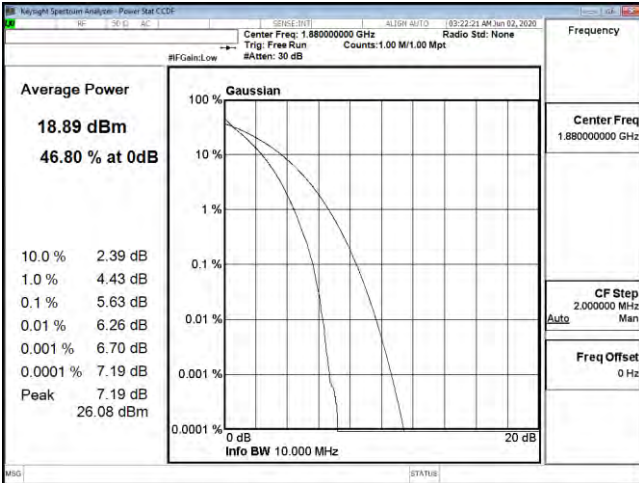
PTAR B2 5M CH19175 16QAM



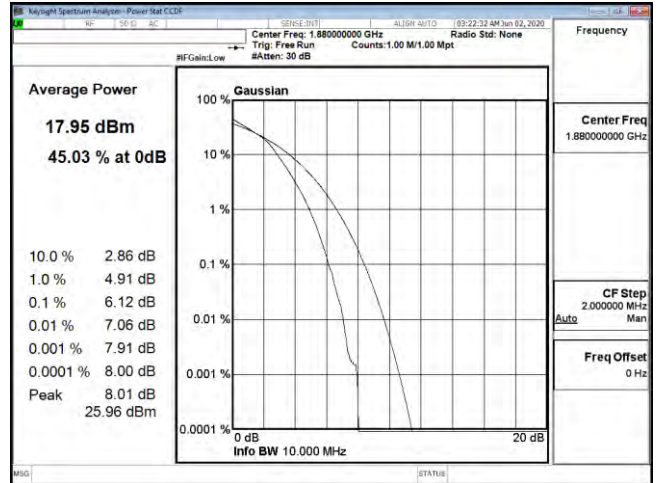
PTAR B2 10M CH18650 QPSK



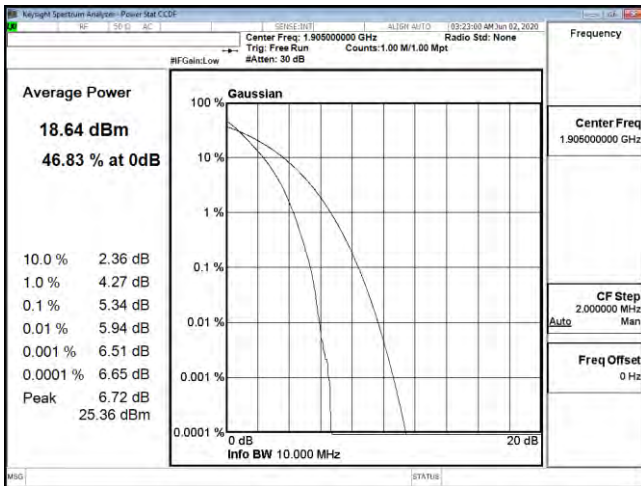
PTAR B2 10M CH18650 16QAM



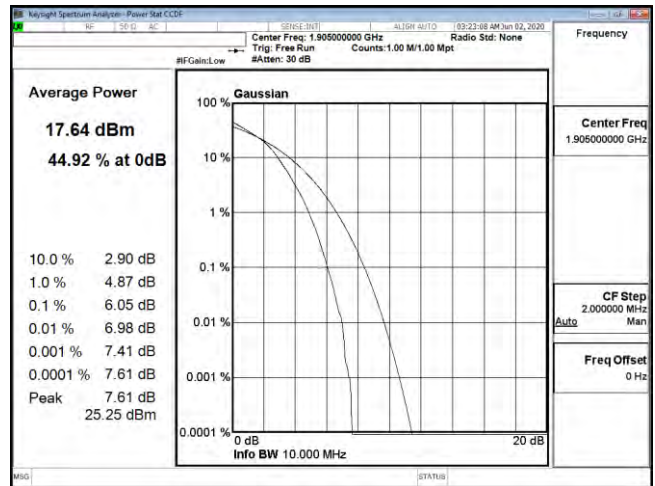
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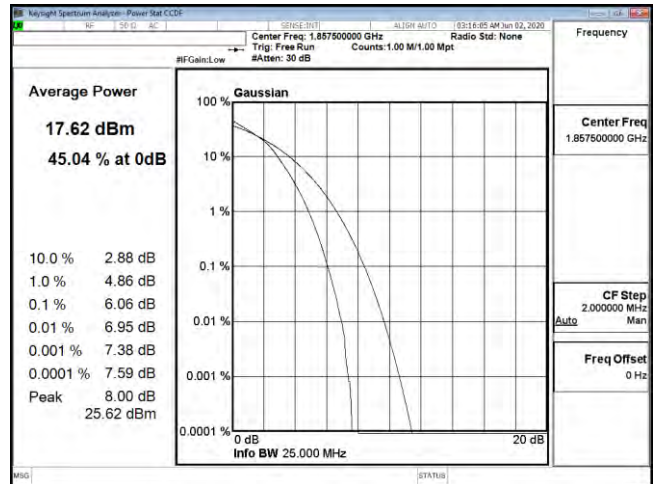
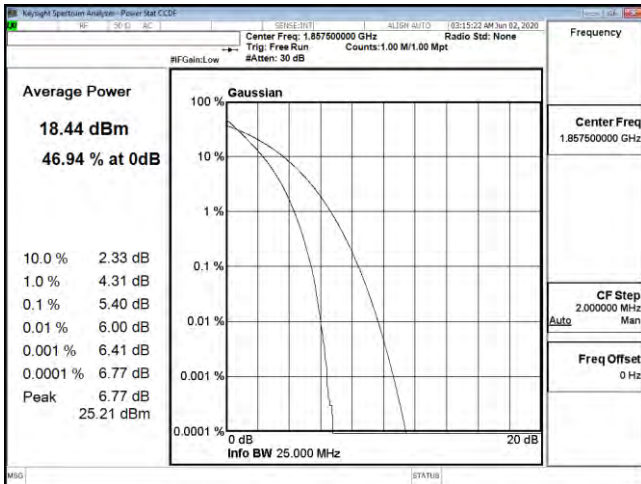
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PTAR B2 10M CH19150 QPSK

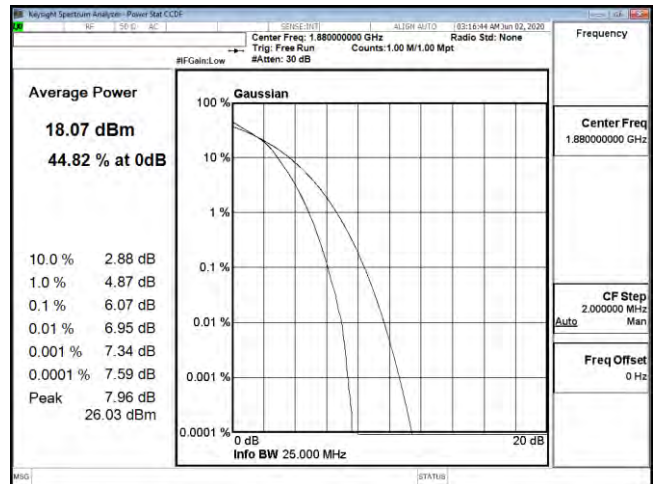
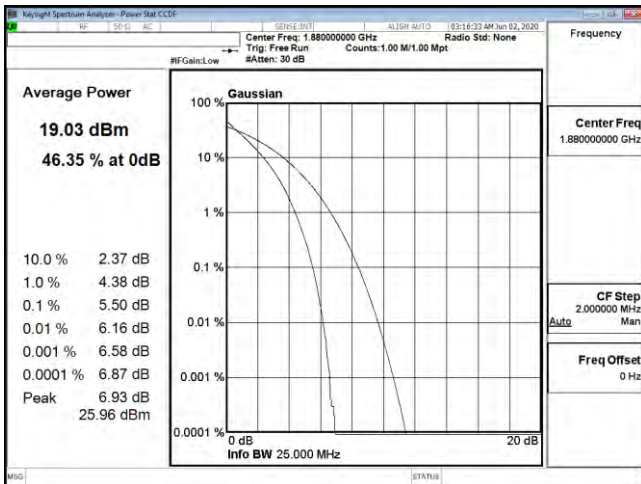


PTAR B2 10M CH19150 16QAM



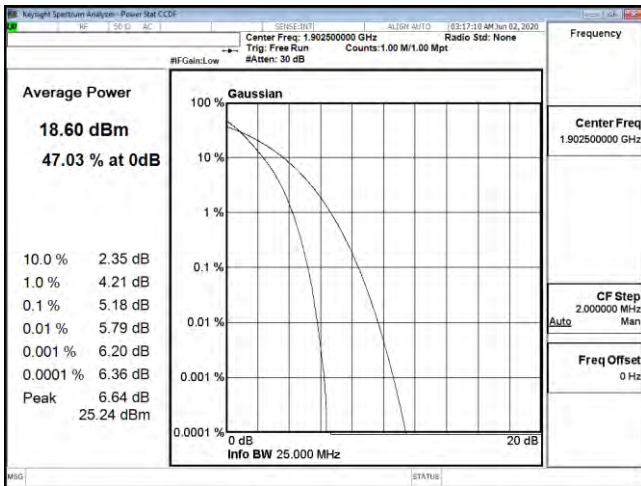
PTAR B2 15M CH18675 QPSK

PTAR B2 15M CH18675 16QAM

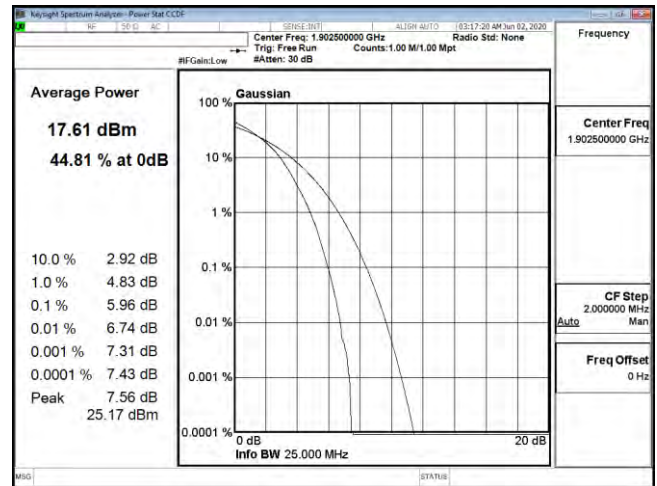


PTAR B2 15M CH18900 QPSK

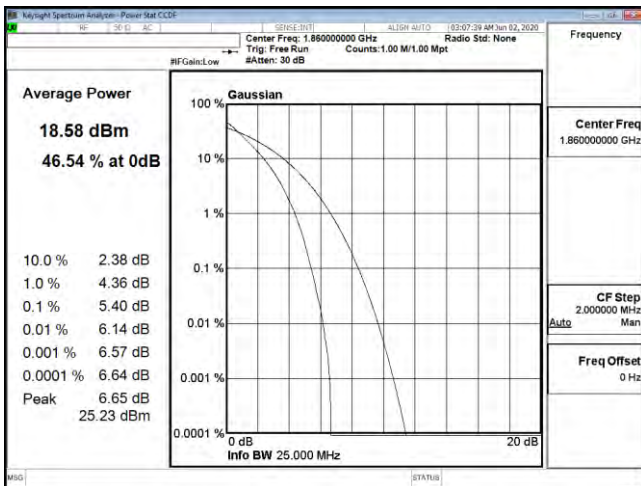
PTAR B2 15M CH18900 16QAM



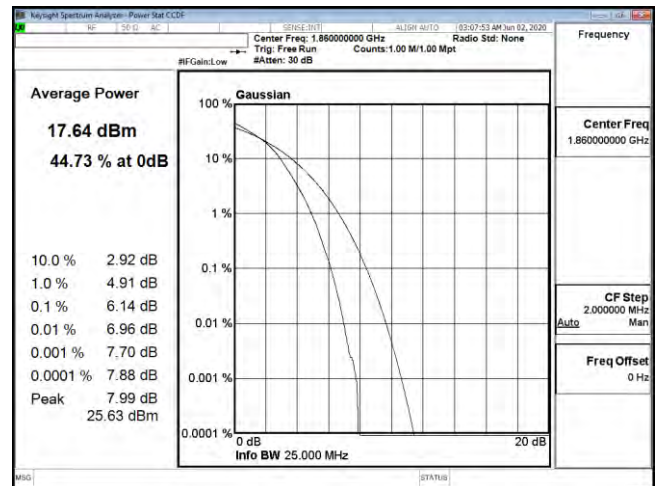
PTAR B2 15M CH191250 QPSK



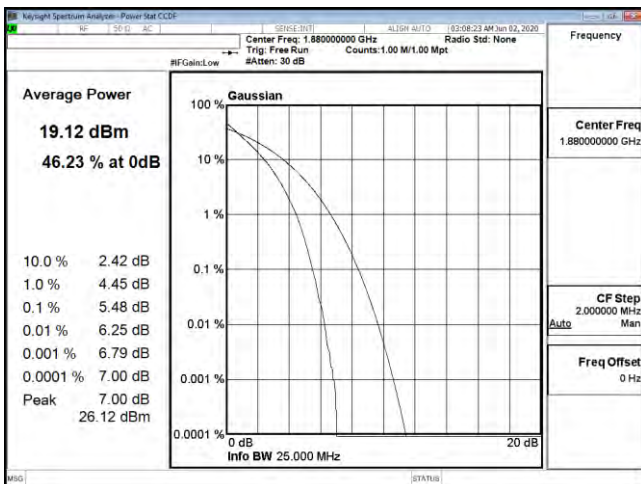
PTAR B2 15M CH191250 16QAM



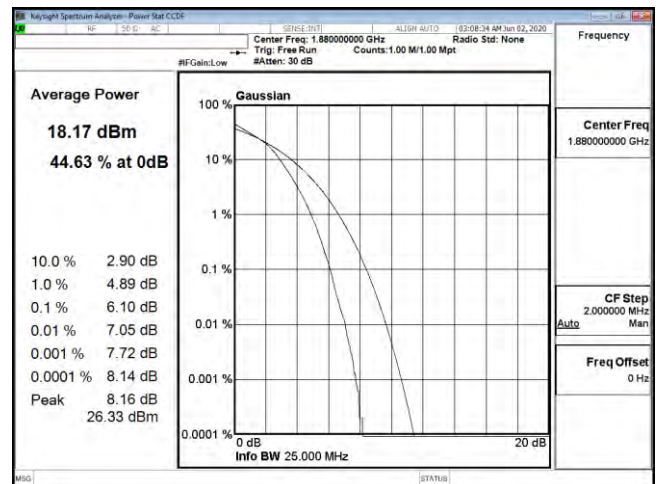
PTAR B2 20M CH18700 QPSK



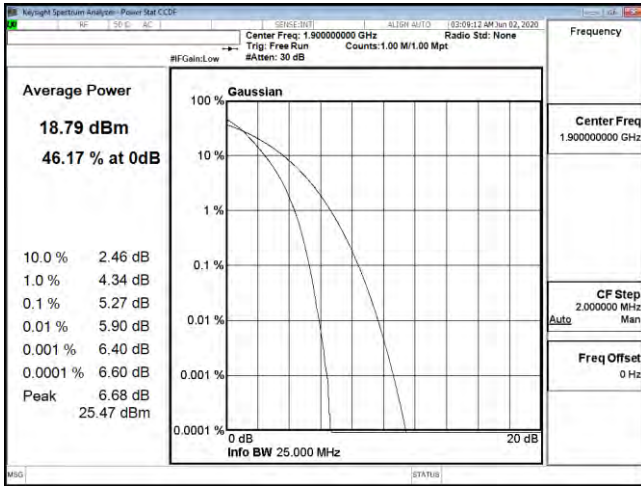
PTAR B2 20M CH18700 16QAM



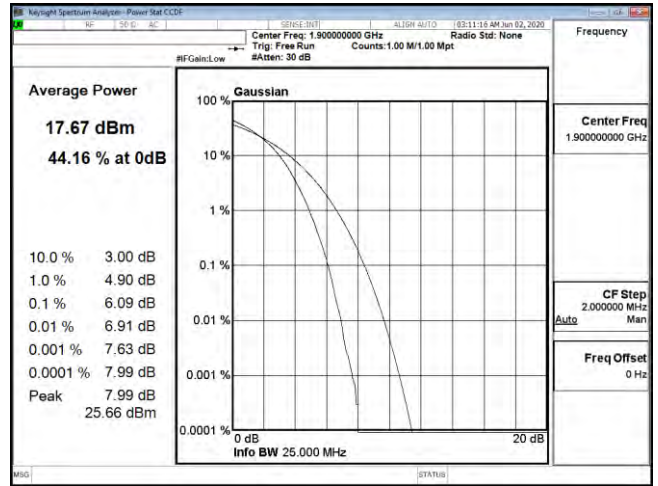
PTAR B2 20M CH18900 QPSK



PTAR B2 20M CH18900 16QAM



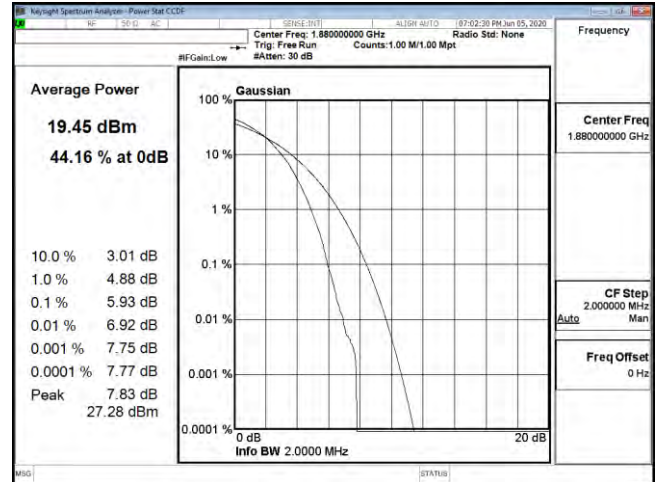
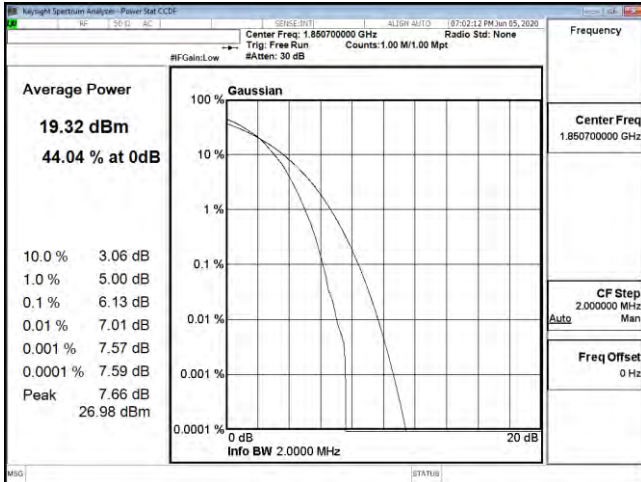
PTAR B2 20M CH19100 QPSK



PTAR B2 20M CH19100 16QAM

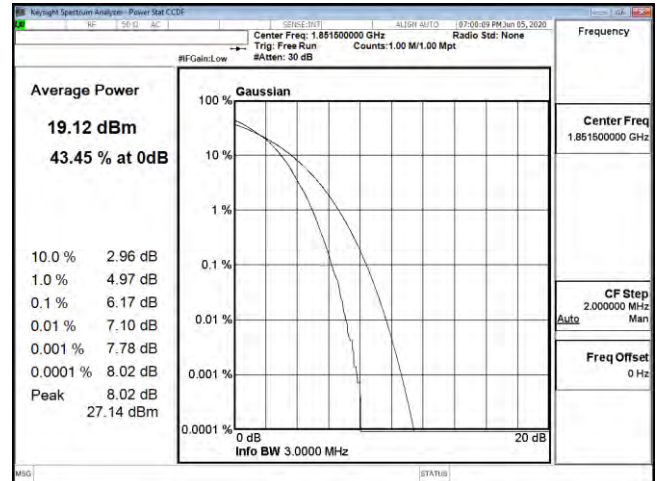
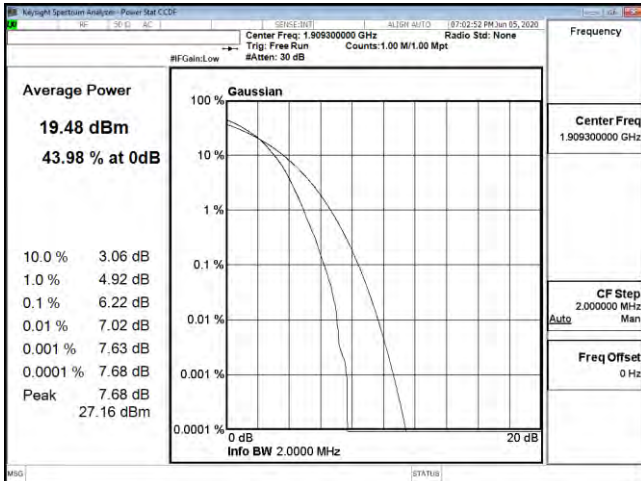


Product	LTE Module		
Test Mode	Peak to Average Ratio		
Date of Test	2020/06/04	Test Site	CTR
Test Condition	LTE-Band 2 64QAM		



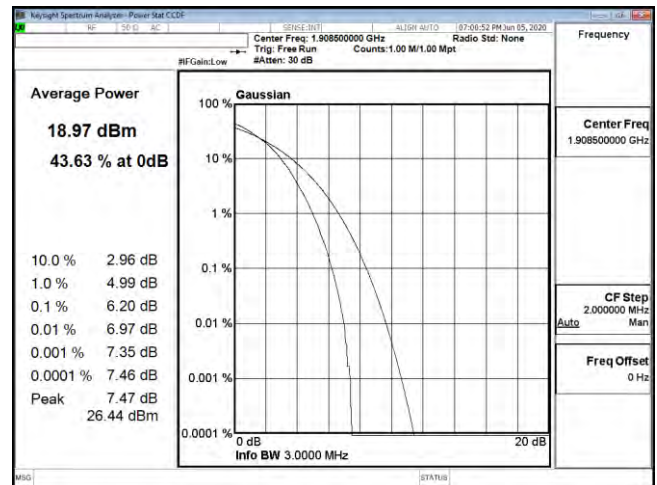
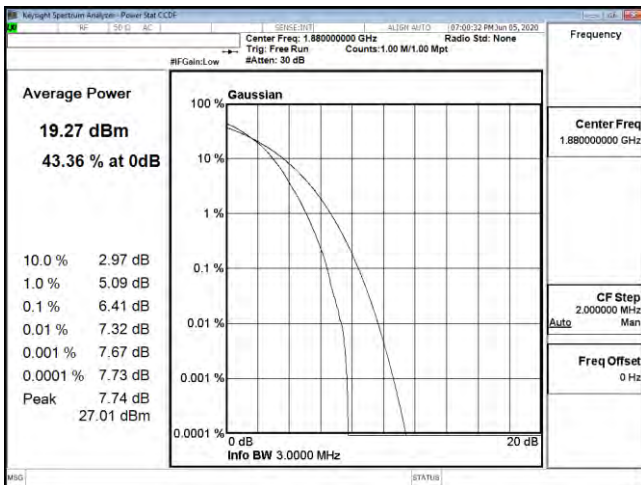
PTAR B2 1.4M CH18607 64QAM

PTAR B2 1.4M CH18900 64QAM



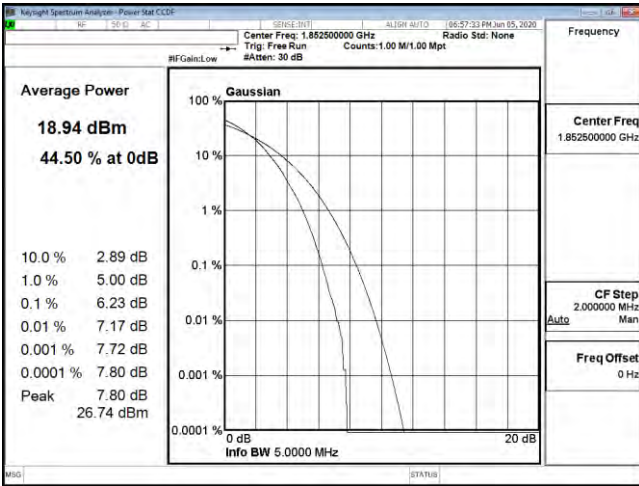
PTAR B2 1.4M CH19193 64QAM

PTAR B2 3M CH18615 64QAM

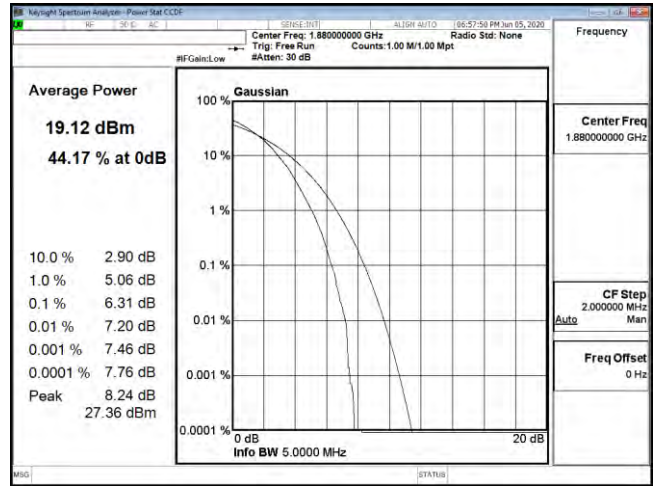


PTAR B2 3M CH18900 64QAM

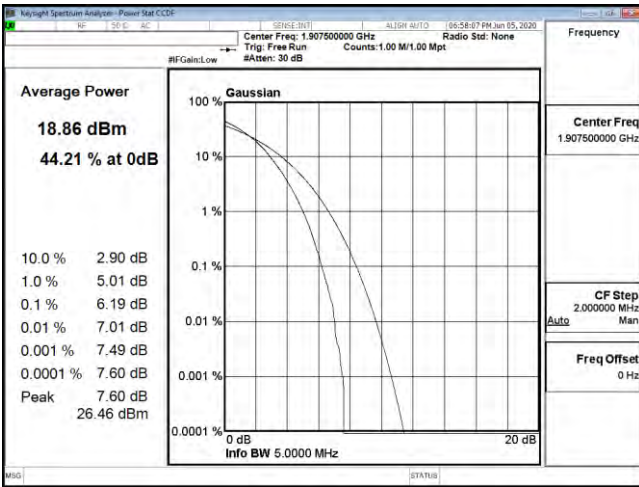
PTAR B2 3M CH19185 64QAM



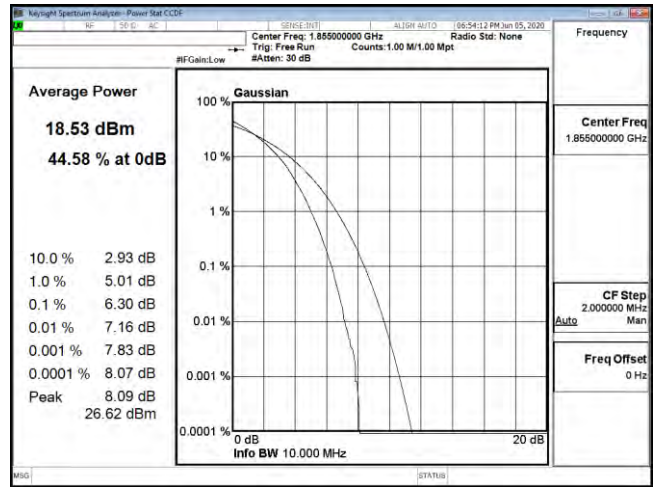
PTAR B2 5M CH18625 64QAM



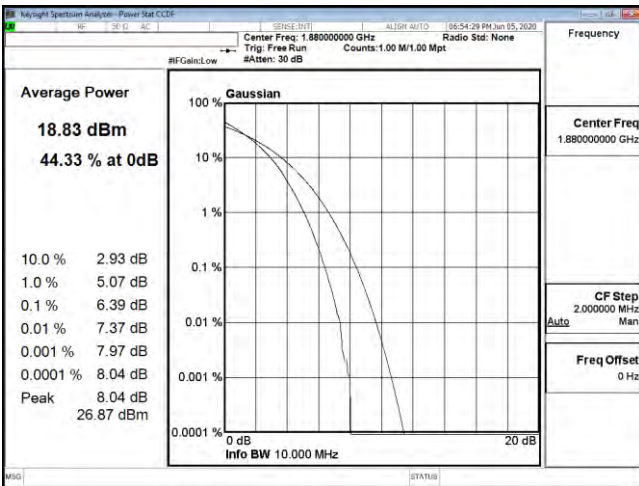
PTAR B2 5M CH18900 64QAM



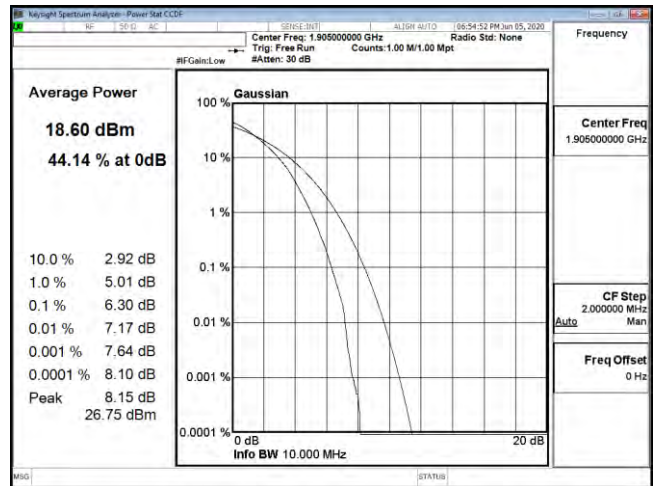
PTAR B2 5M CH19175 64QAM



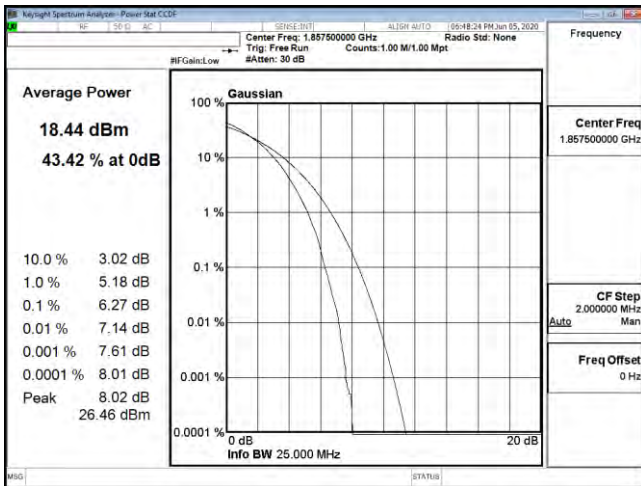
PTAR B2 10M CH18650 64QAM



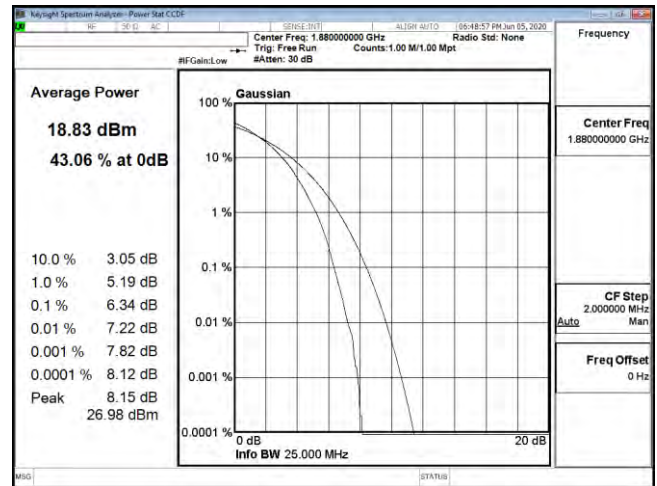
PTAR B2 10M CH18900 64QAM



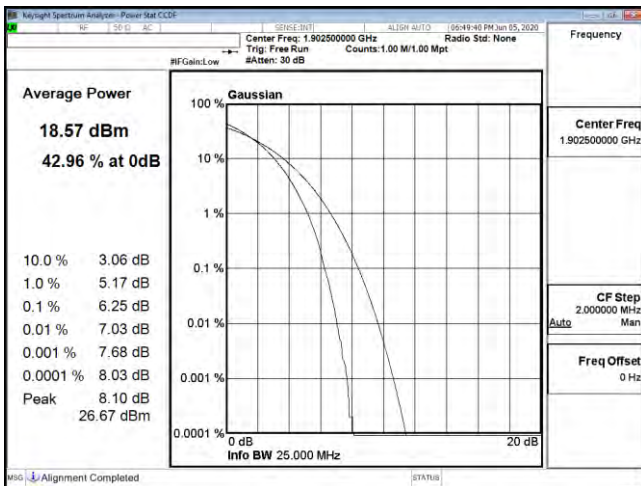
PTAR B2 10M CH19150 64QAM



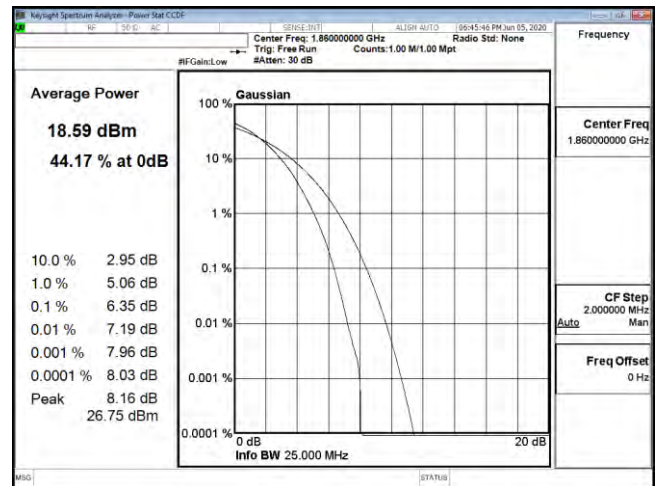
PTAR B2 15M CH18675 64QAM



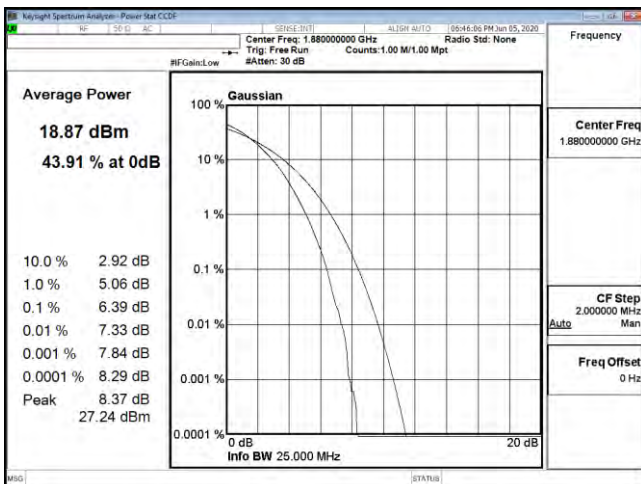
PTAR B2 15M CH18900 64QAM



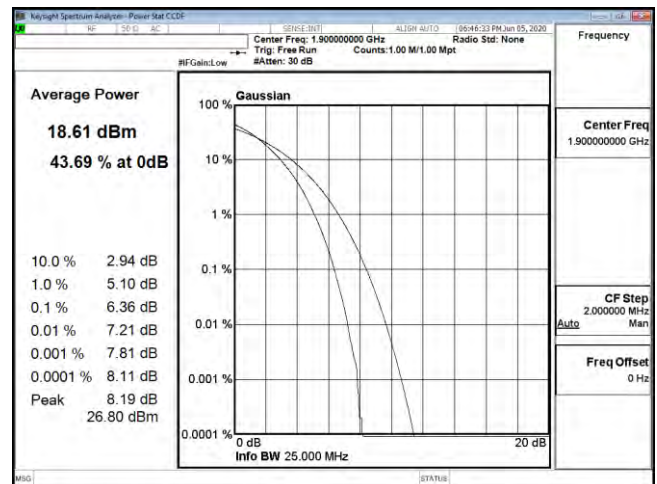
PTAR B2 15M CH19125 64QAM



PTAR B2 20M CH18700 64QAM

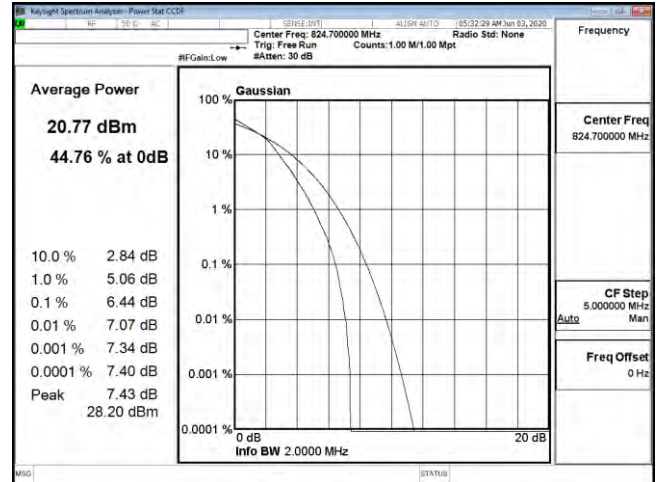
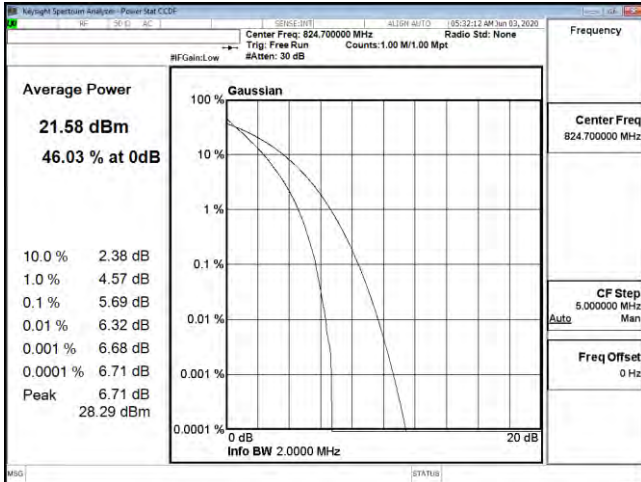


PTAR B2 20M CH18900 64QAM



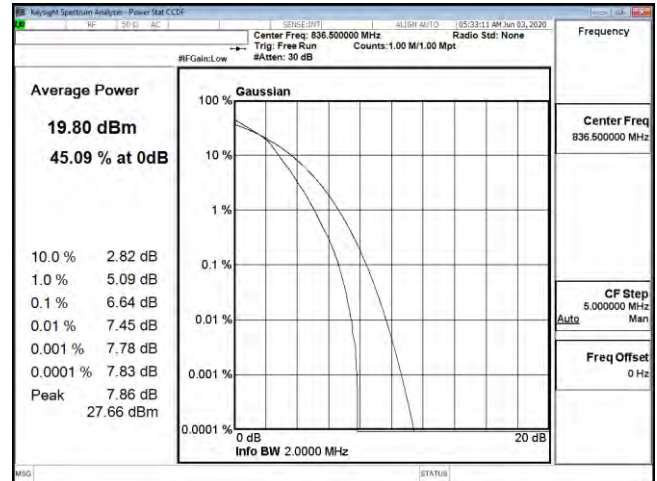
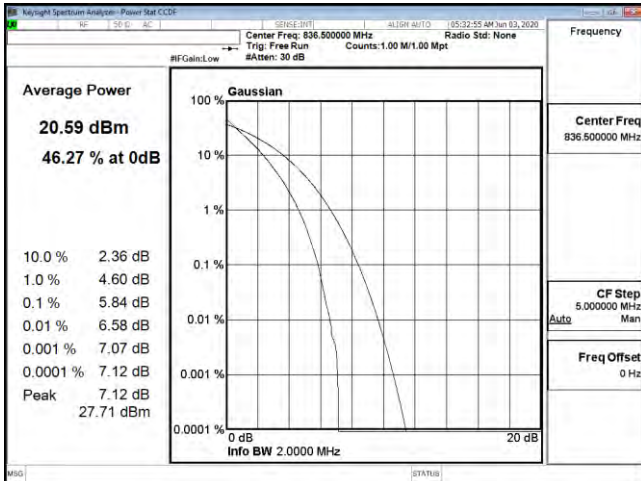
PTAR B2 20M CH19100 64QAM

Product	LTE Module		
Test Mode	Peak to Average Ratio		
Date of Test	2020/06/04	Test Site	CTR
Test Condition	LTE-Band 5 QPSK/16QAM		



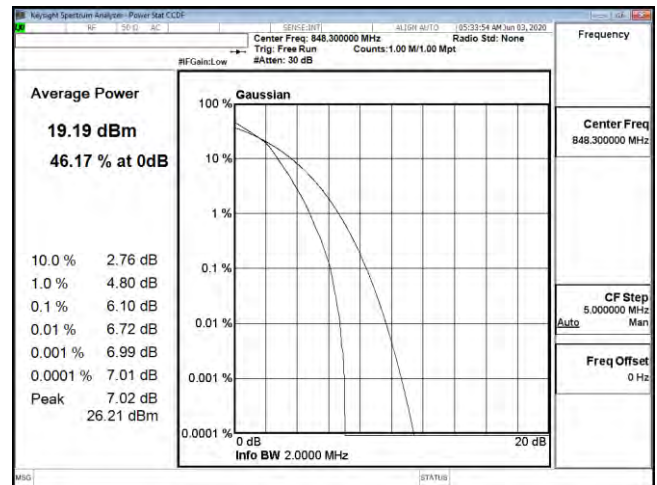
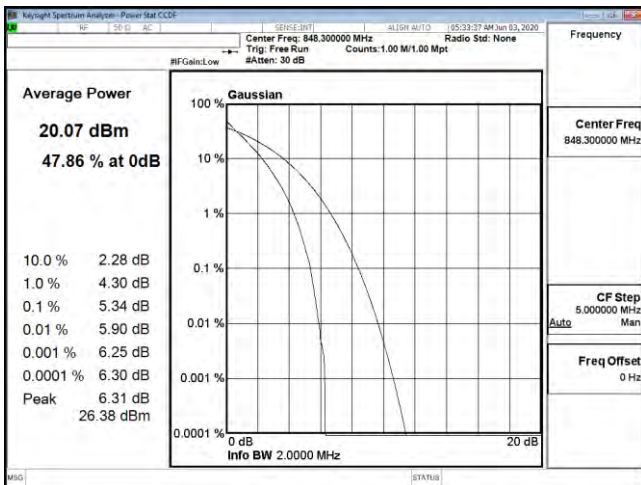
PTAR B5 1.4M CH20407 QPSK

PTAR B5 1.4M CH20407 16QAM



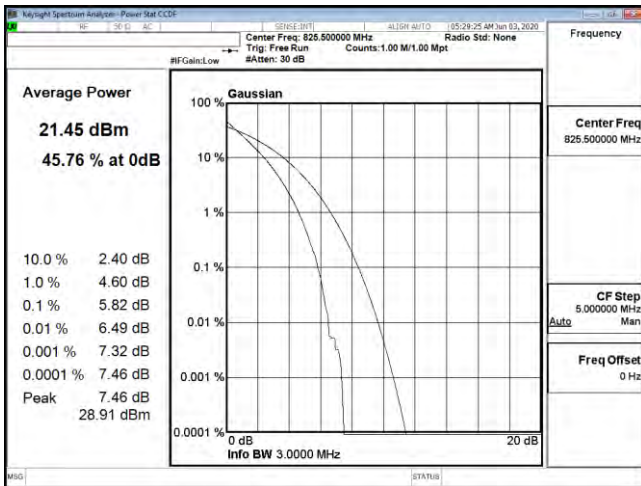
PTAR B5 1.4M CH20525 QPSK

PTAR B5 1.4M CH20525 16QAM

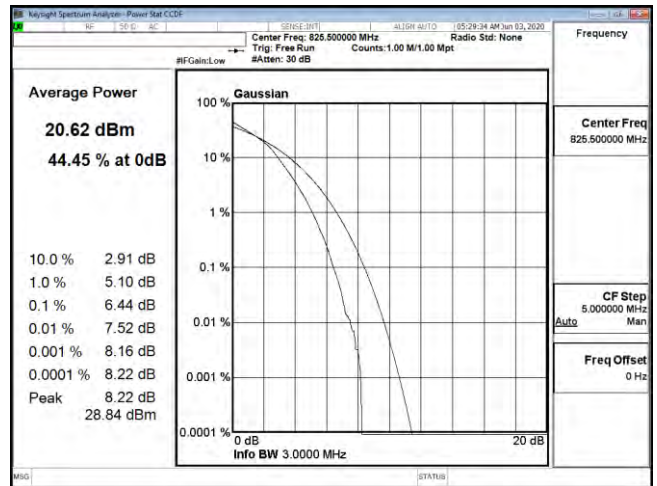


PTAR B5 1.4M CH20643 QPSK

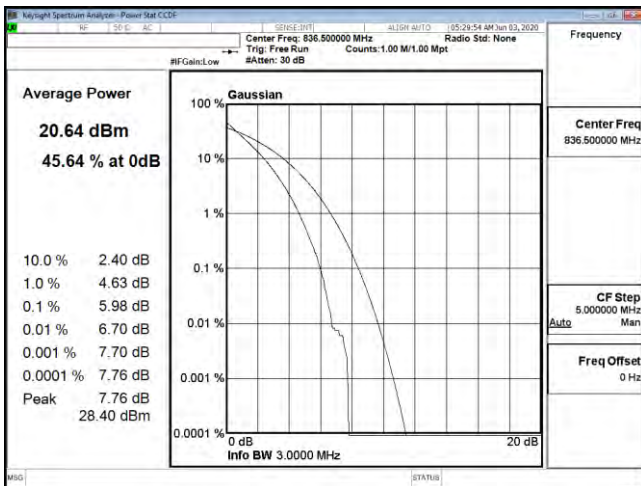
PTAR B5 1.4M CH20643 16QAM



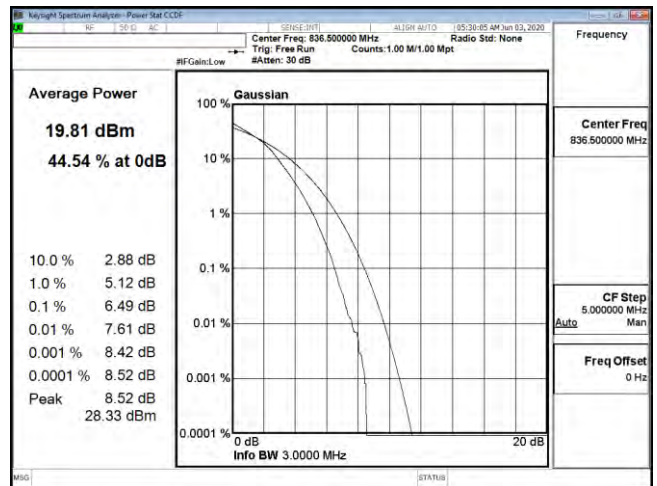
PTAR B5 3M CH20415 QPSK



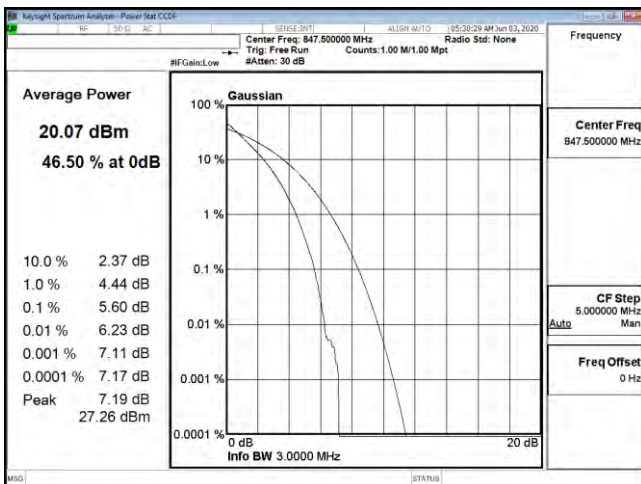
PTAR B5 3M CH20415 16QAM



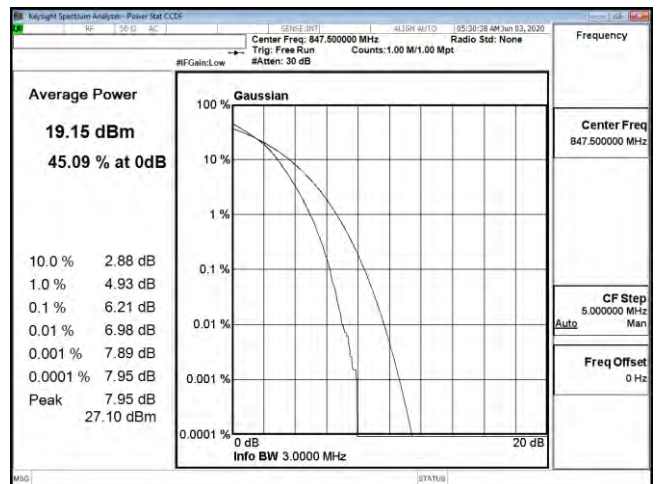
PTAR B5 3M CH20525 QPSK



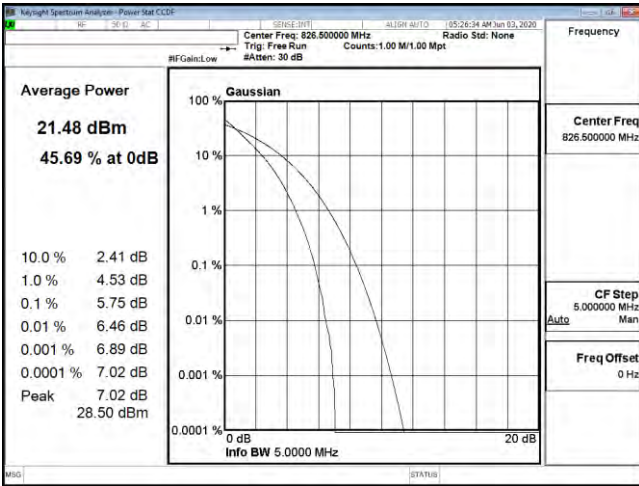
PTAR B5 3M CH20525 16QAM



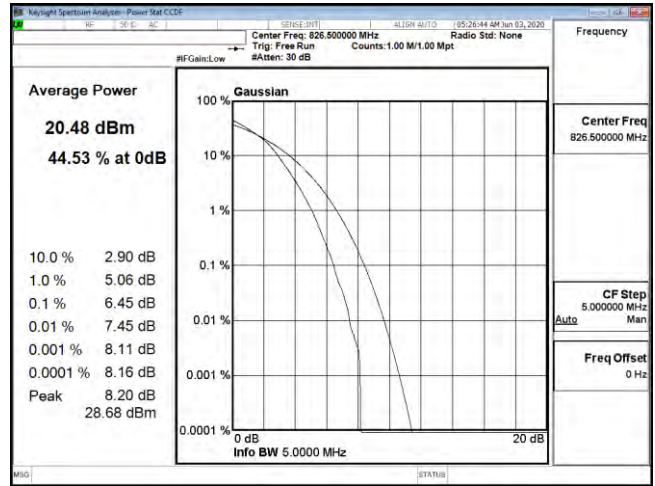
PTAR B5 3M CH20635 QPSK



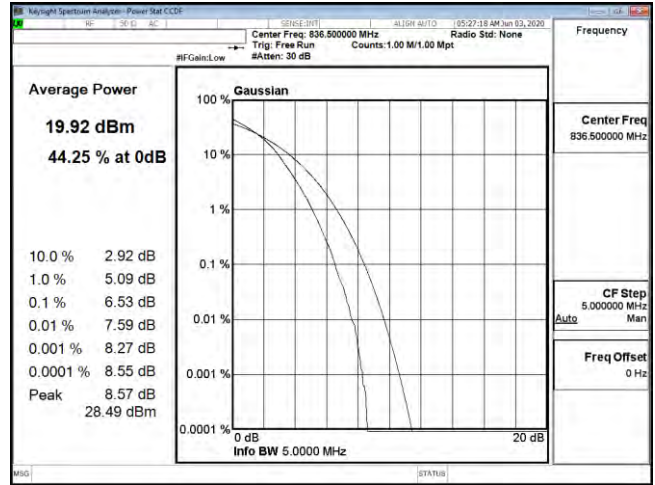
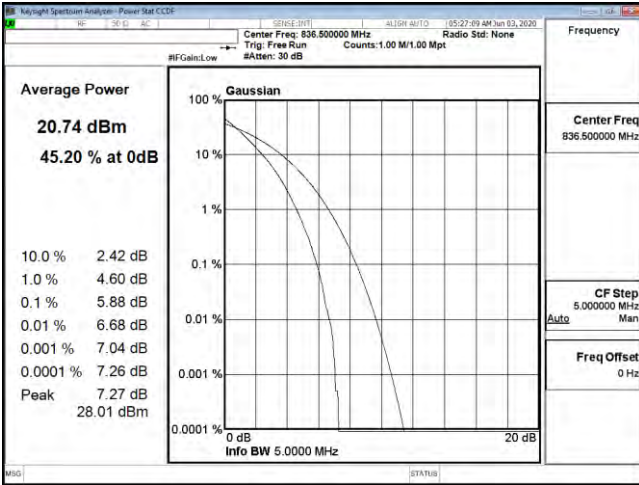
PTAR B5 3M CH20635 16QAM



PTAR B5 5M CH20425 QPSK

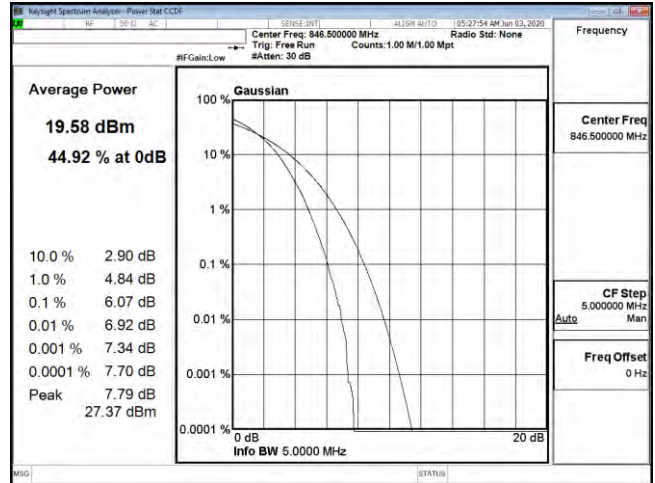
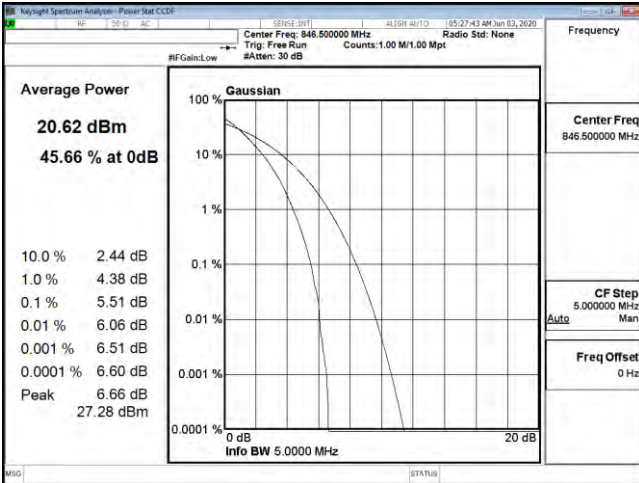


PTAR B5 5M CH20425 16QAM



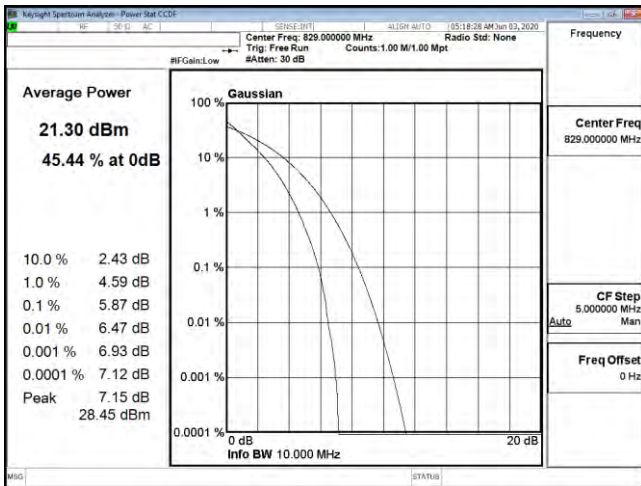
PTAR B5 5M CH20525 QPSK

PTAR B5 5M CH20525 16QAM

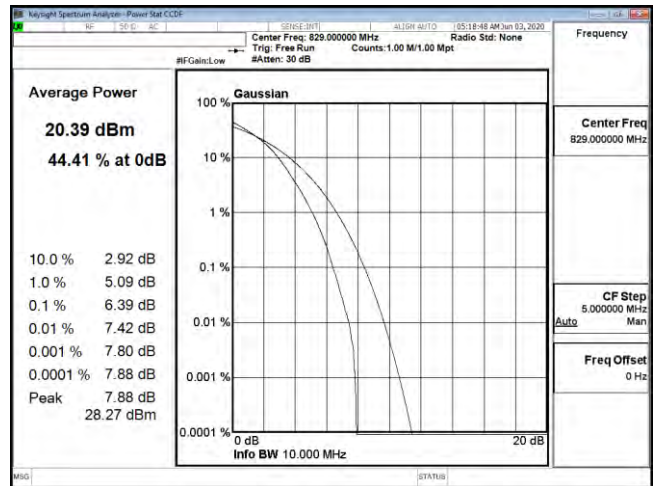


PTAR B5 5M CH20625 QPSK

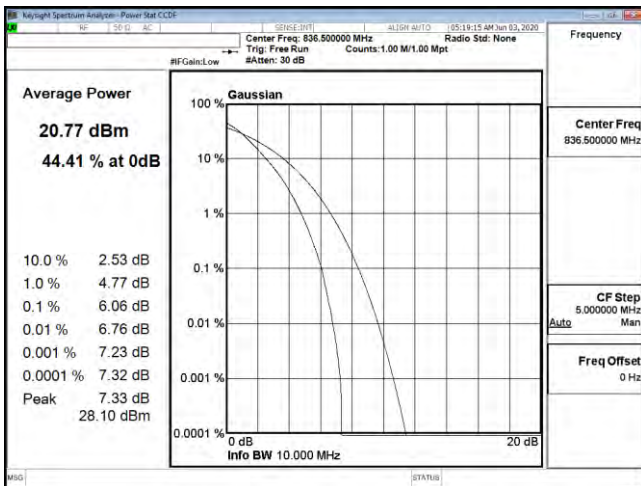
PTAR B5 5M CH20625 16QAM



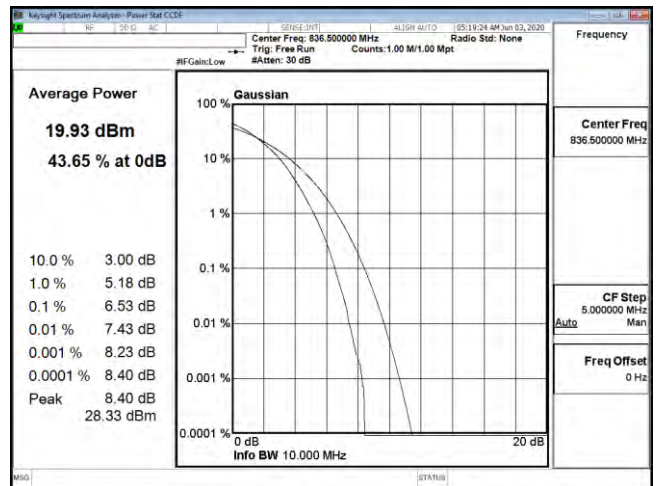
PTAR B5 10M CH20450 QPSK



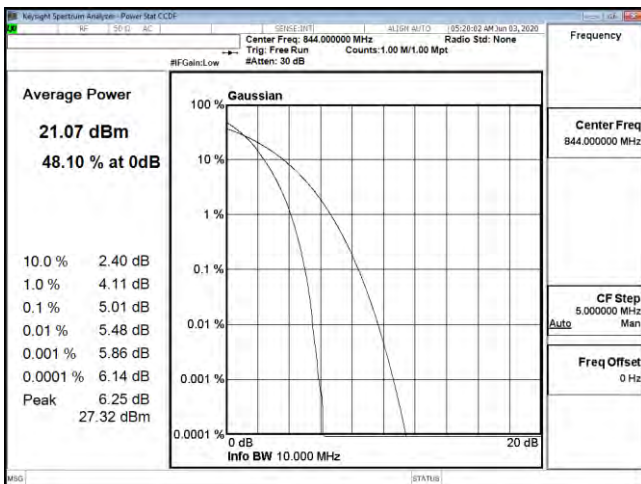
PTAR B5 10M CH20450 16QAM



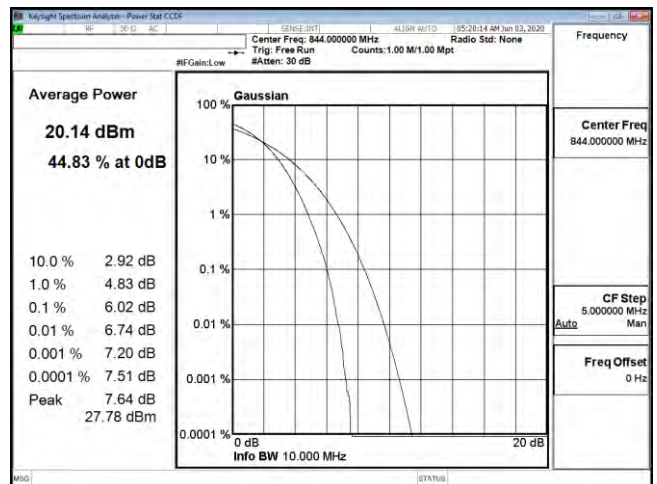
PTAR B5 10M CH20525 QPSK



PTAR B5 10M CH20525 16QAM

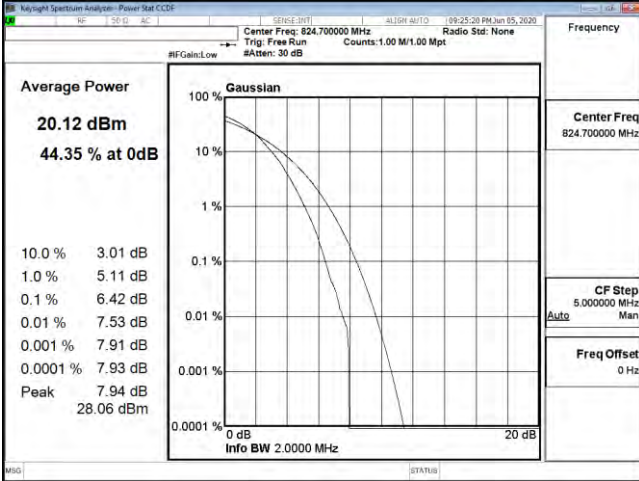


PTAR B5 10M CH20600 QPSK

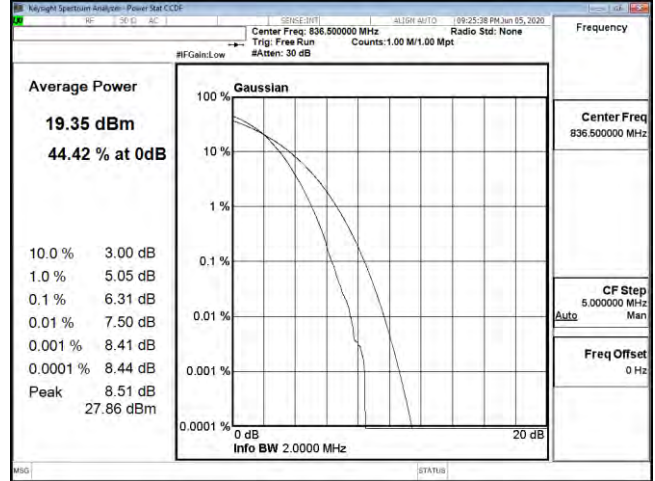


PTAR B5 10M CH20600 16QAM

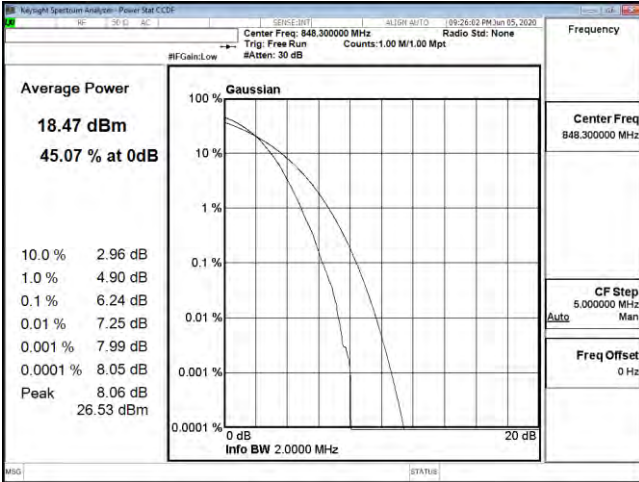
Product	LTE Module		
Test Mode	Peak to Average Ratio		
Date of Test	2020/06/04	Test Site	CTR
Test Condition	LTE-Band 5 64QAM		



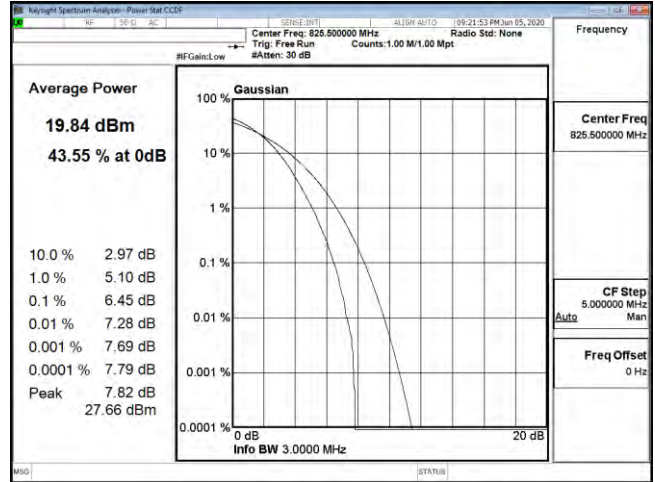
PTAR B5 1.4M CH20407 64QAM



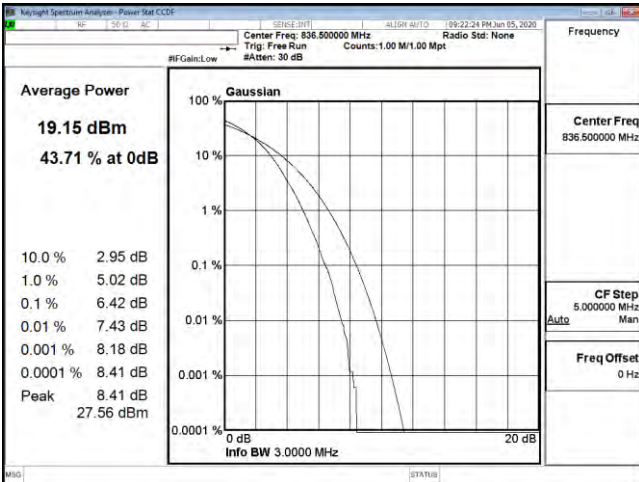
PTAR B5 1.4M CH20525 64QAM



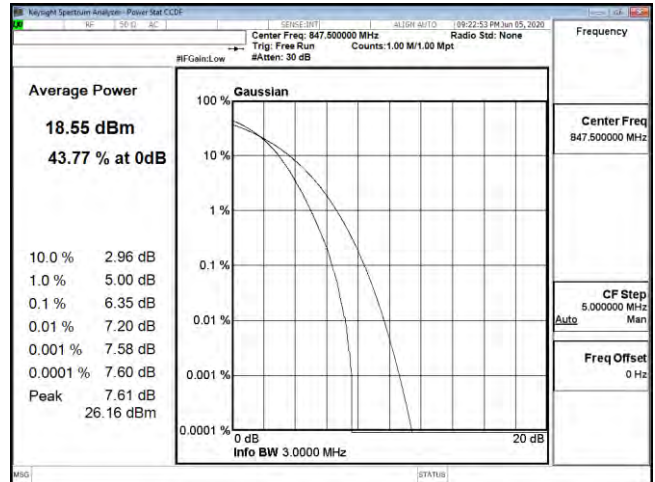
PTAR B5 1.4M CH20643 64QAM



PTAR B5 3M CH20415 64QAM

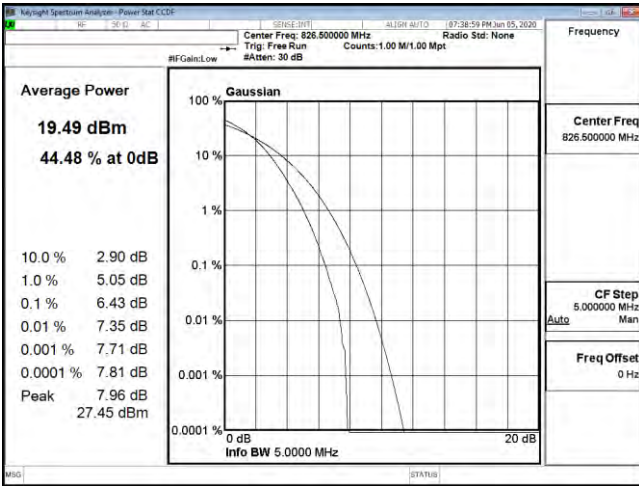


PTAR B5 3M CH20525 64QAM

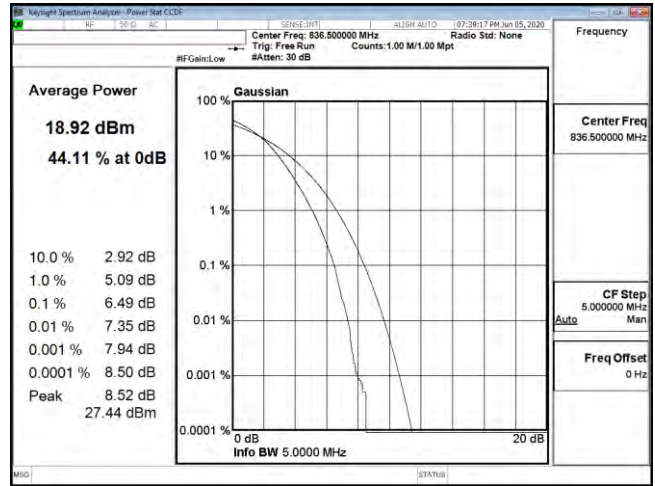


PTAR B5 3M CH20635 64QAM

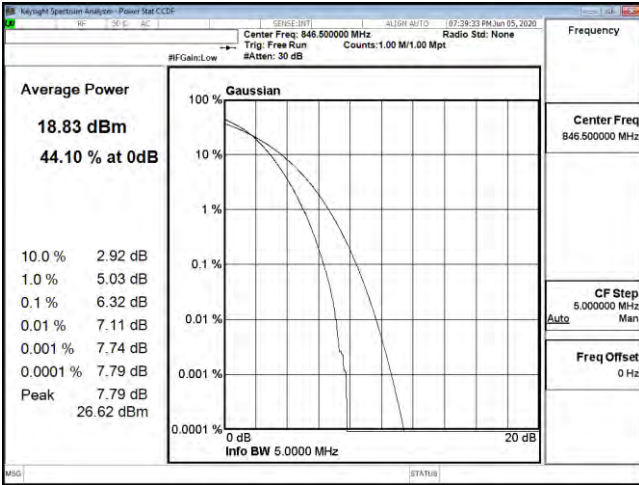




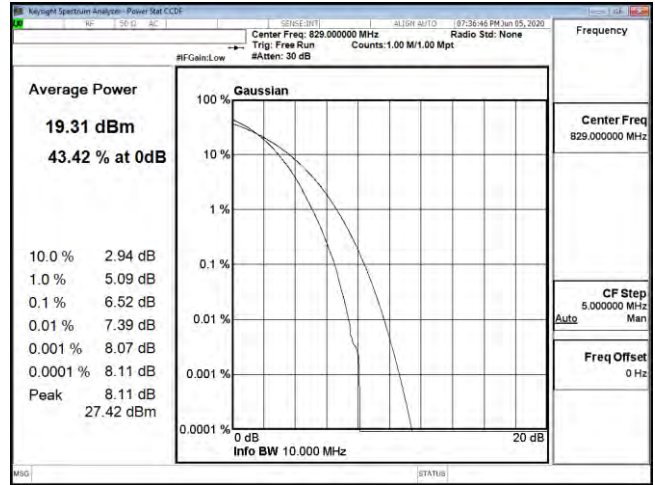
PTAR B5 5M CH20425 64QAM



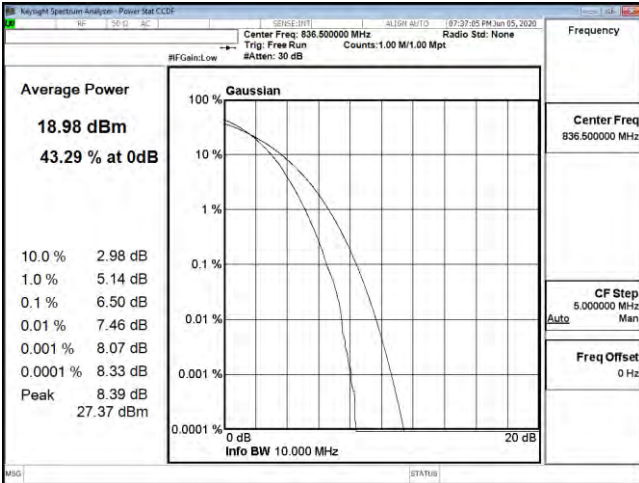
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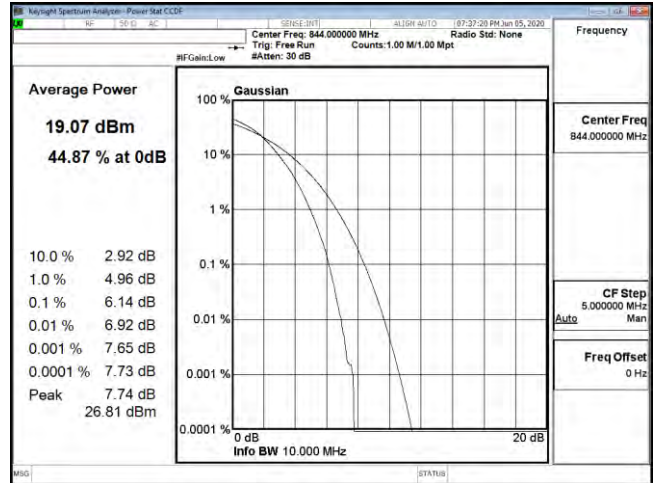
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PTAR B5 10M CH20450 64QAM

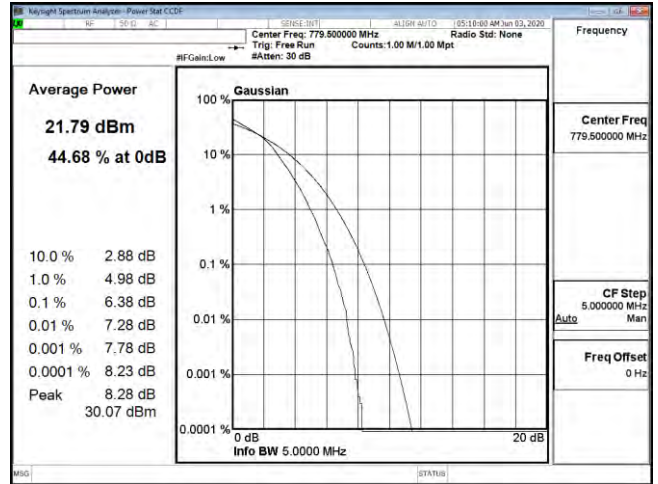
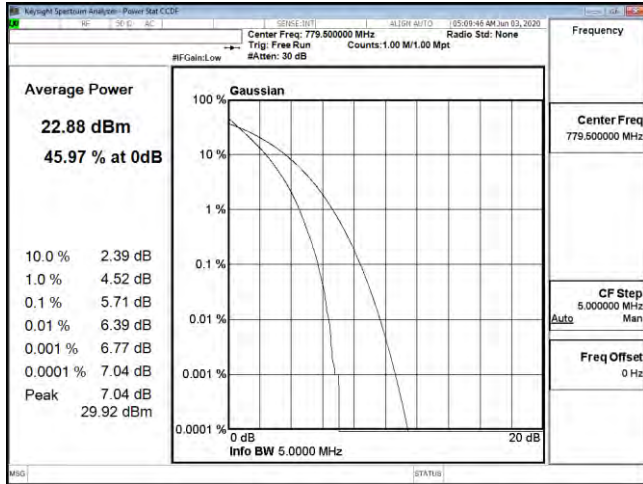


PTAR B5 10M CH20525 64QAM



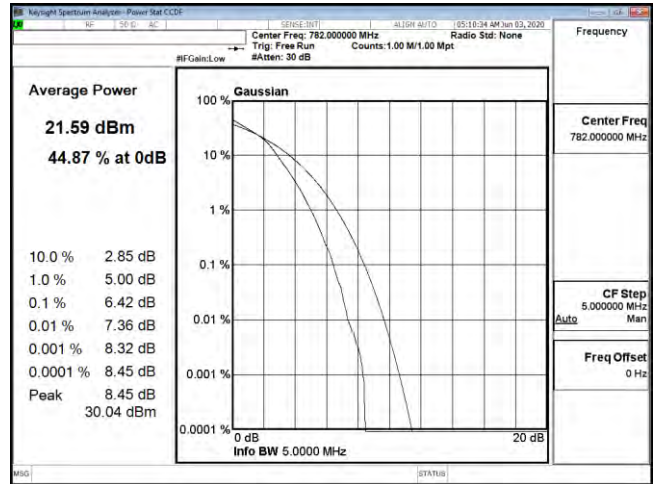
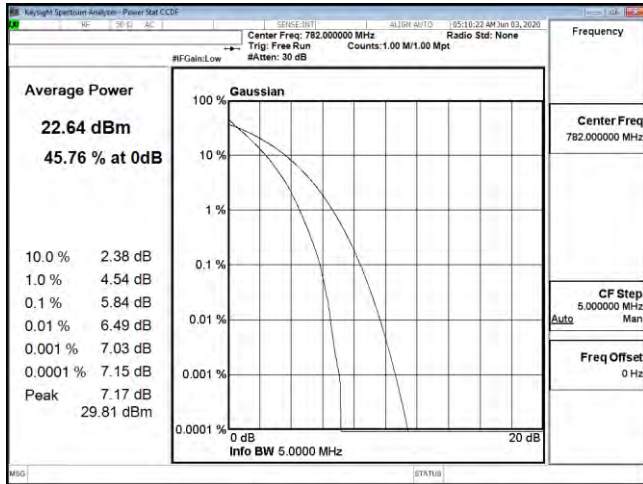
PTAR B5 10M CH20600 64QAM

Product	LTE Module		
Test Mode	Peak to Average Ratio		
Date of Test	2020/06/04	Test Site	CTR
Test Condition	LTE-Band 13 QPSK/16QAM		



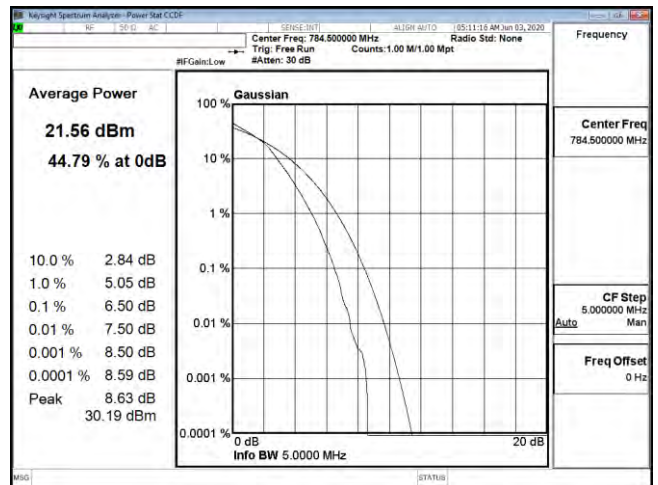
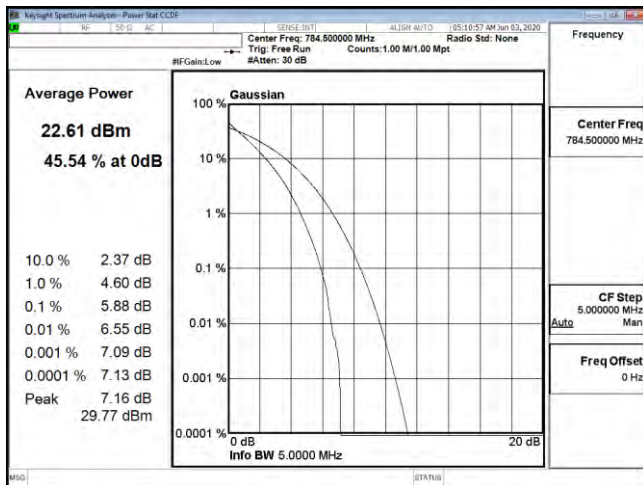
PTAR B13 5M CH23205 QPSK

PTAR B13 5M CH23205 16QAM



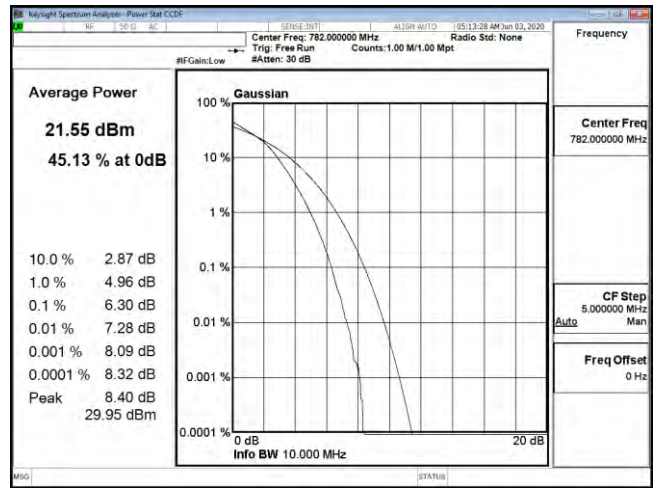
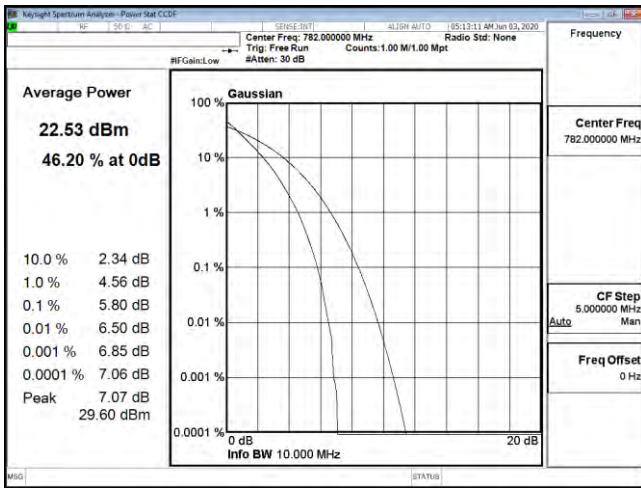
PTAR B13 5M CH23230 QPSK

PTAR B13 5M CH23230 16QAM



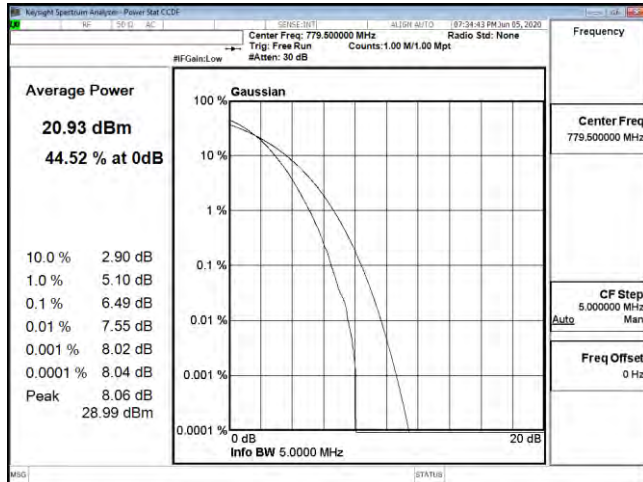
PTAR B13 5M CH23255 QPSK

PTAR B13 5M CH23255 16QAM

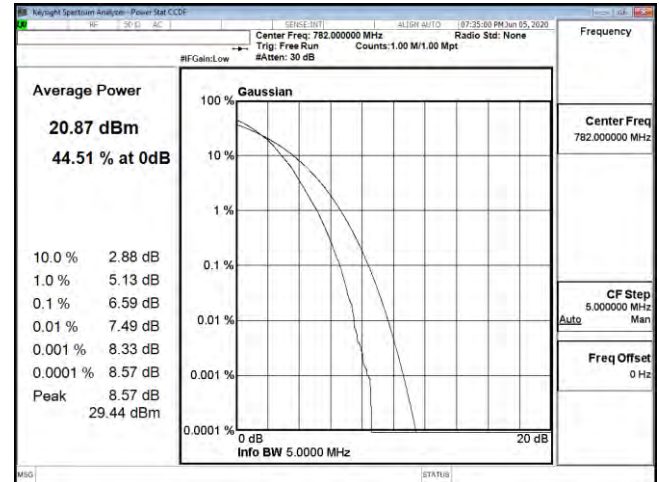


Product	LTE Module		
Test Mode	Peak to Average Ratio		
Date of Test	2020/06/04	Test Site	CTR
Test Condition	LTE-Band 13 64QAM		

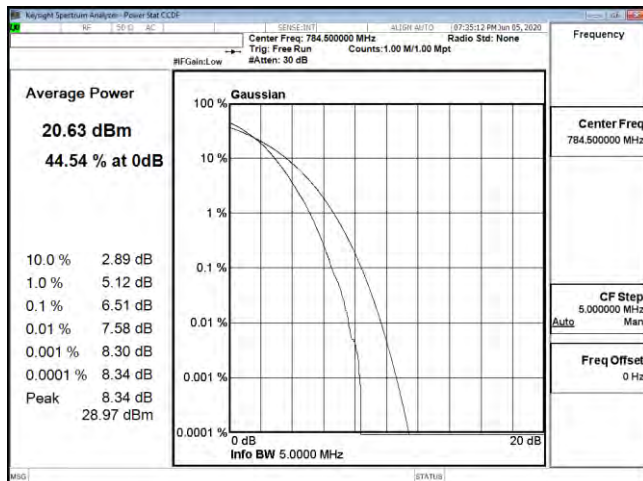
PTAR B13 10M CH23230 QPSK



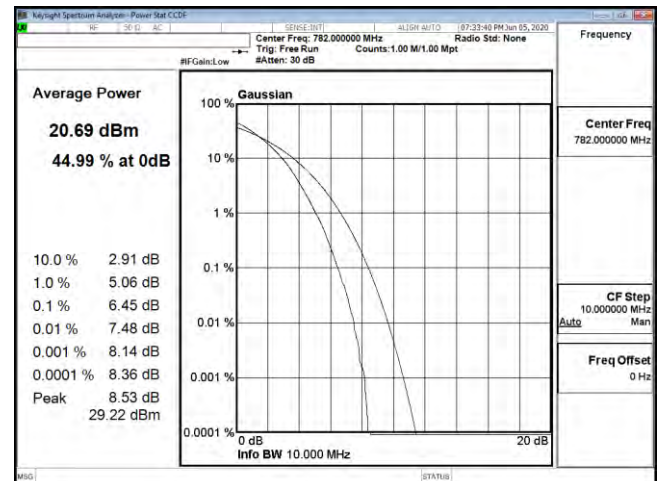
PTAR B13 10M CH23230 16QAM



PTAR B13 5M CH23205 64QAM



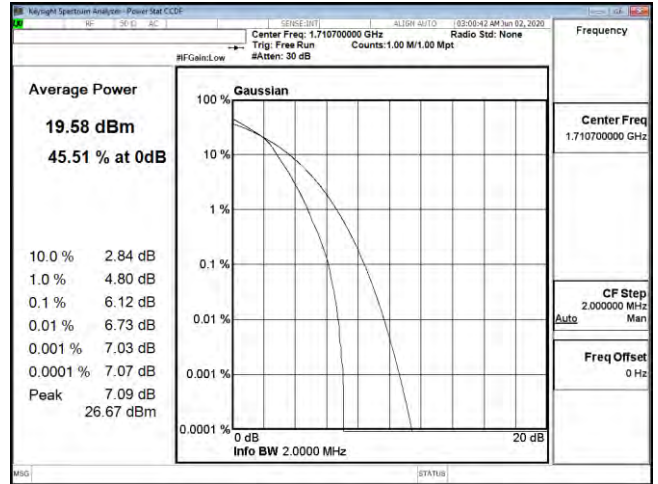
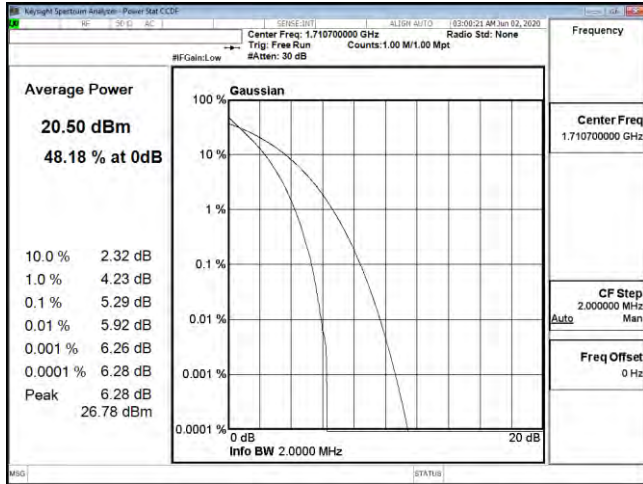
PTAR B13 5M CH23230 64QAM



PTAR B13 5M CH23255 64QAM

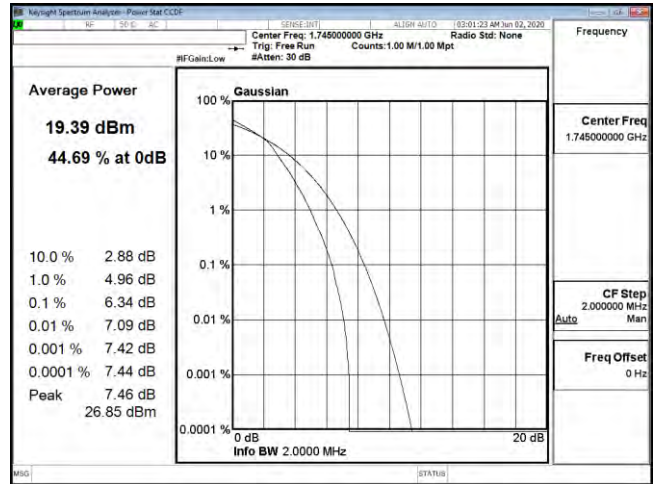
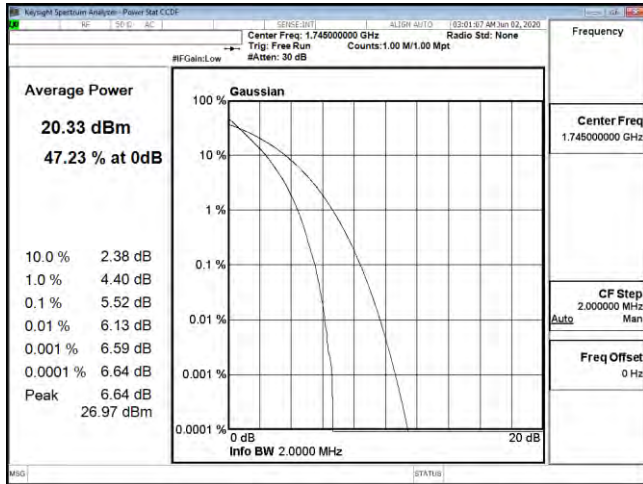
PTAR B13 10M CH23230 64QAM

Product	LTE Module		
Test Mode	Peak to Average Ratio		
Date of Test	2020/06/04	Test Site	CTR
Test Condition	LTE-Band 66 QPSK/16QAM		



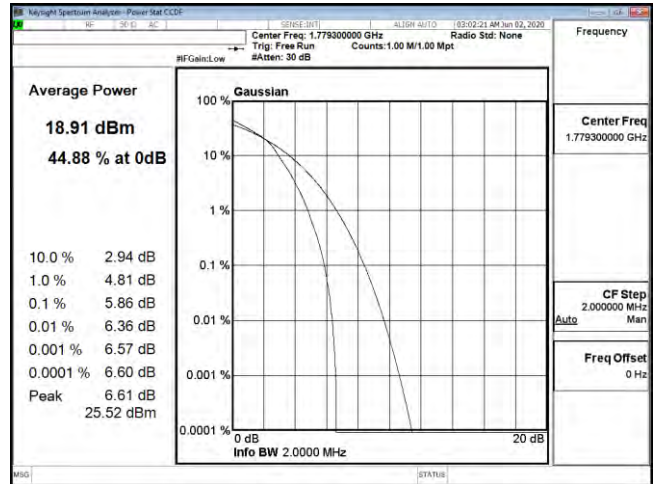
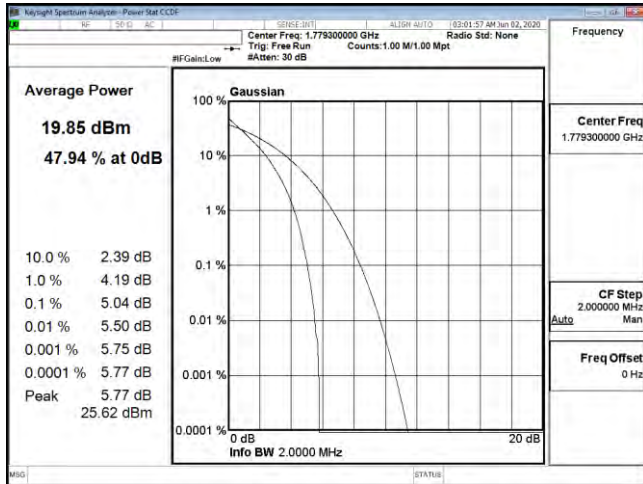
PTAR B66 1.4M CH131979 QPSK

PTAR B66 1.4M CH131979 16QAM



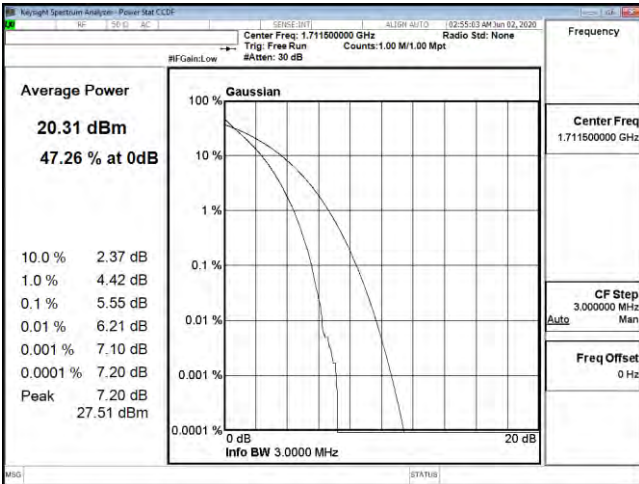
PTAR B66 1.4M CH132322 QPSK

PTAR B66 1.4M CH132322 16QAM

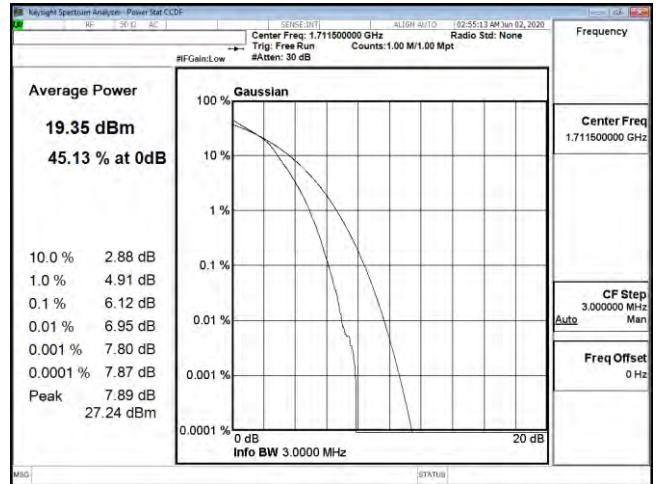


PTAR B66 1.4M CH132665 QPSK

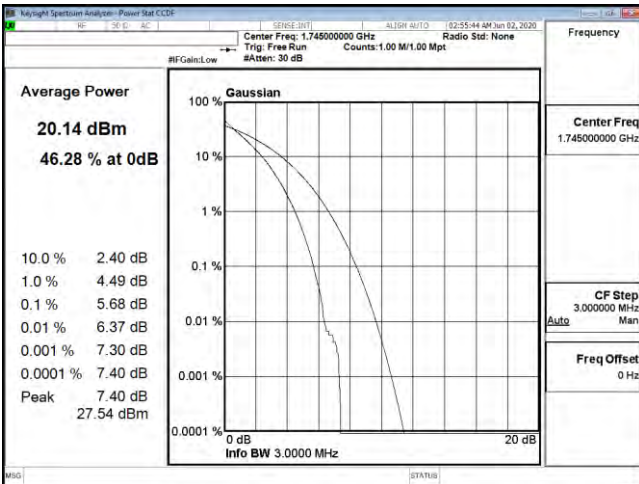
PTAR B66 1.4M CH132665 16QAM



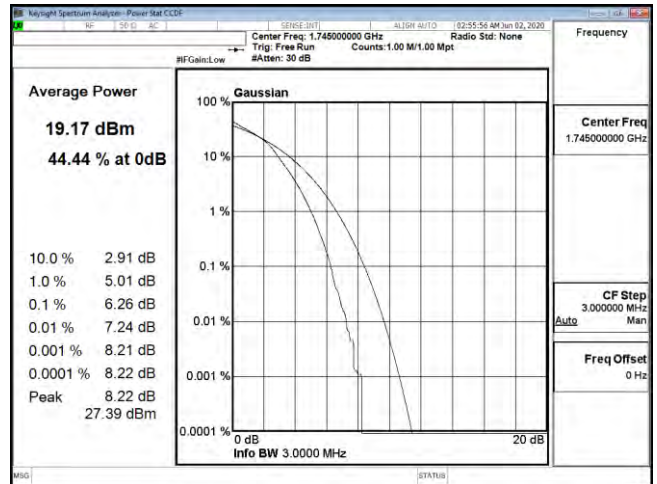
PTAR B66 3M CH131987 QPSK



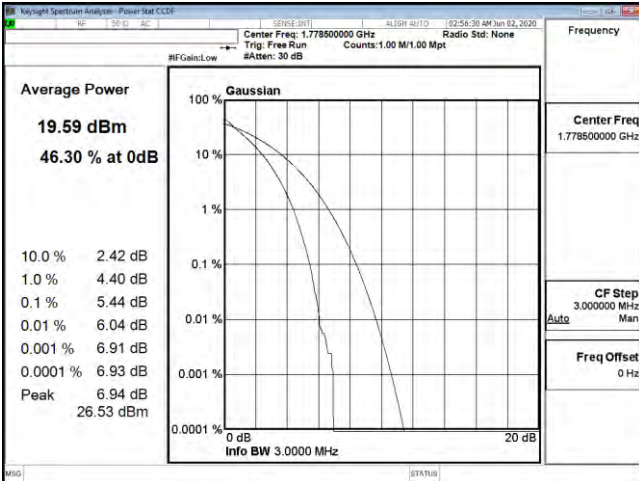
PTAR B66 3M CH131987 16QAM



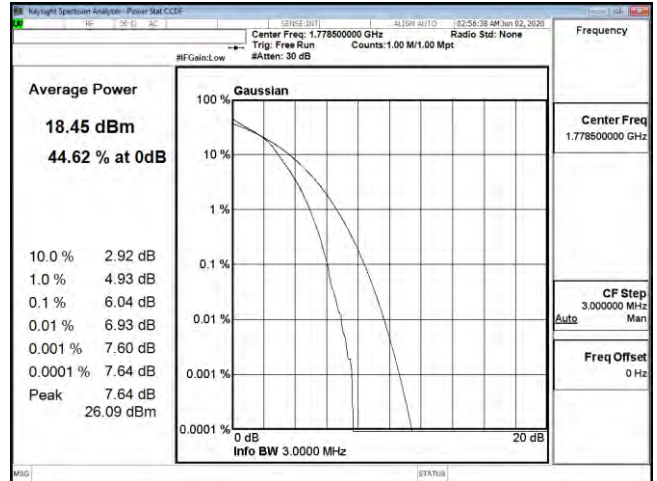
PTAR B66 3M CH132322 QPSK



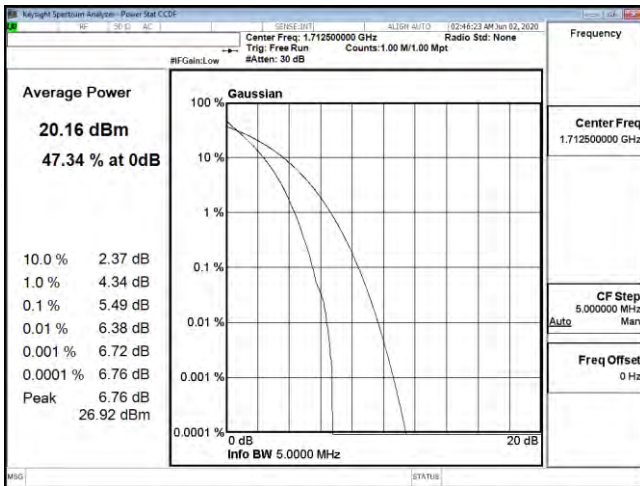
PTAR B66 3M CH132322 16QAM



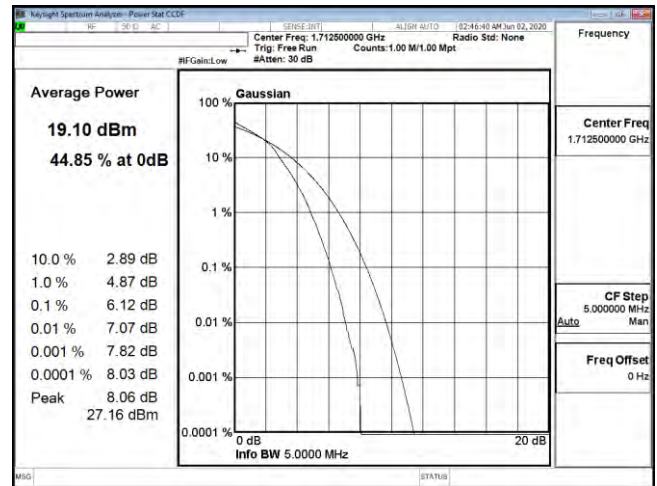
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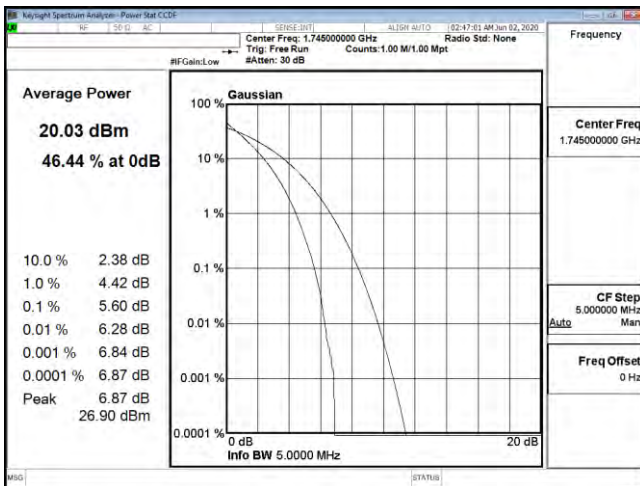
PTAR B66 3M CH132657 16QAM



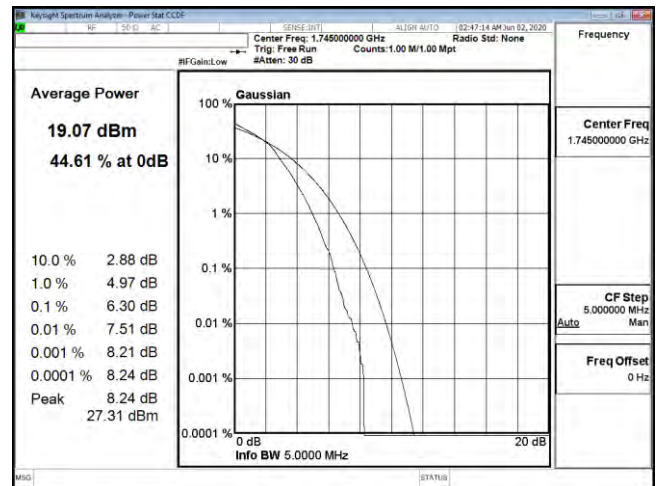
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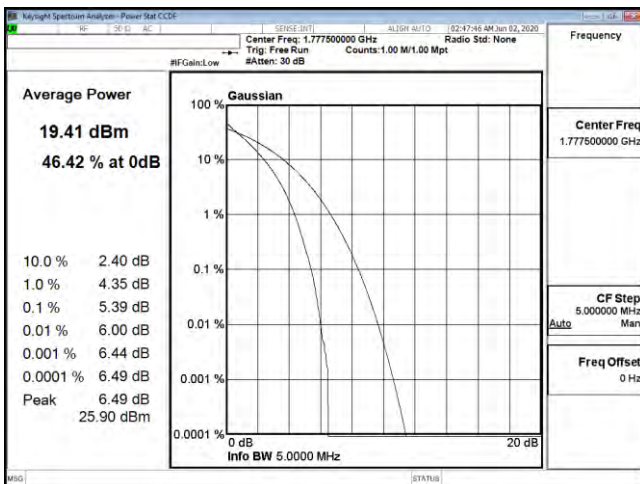
PTAR B66 5M CH131997 16QAM



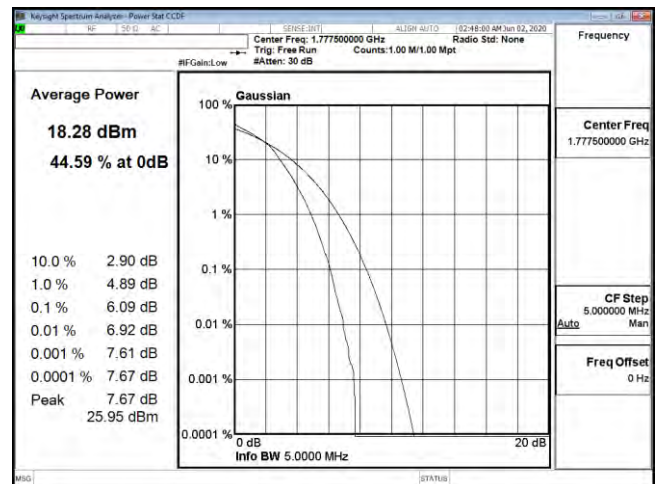
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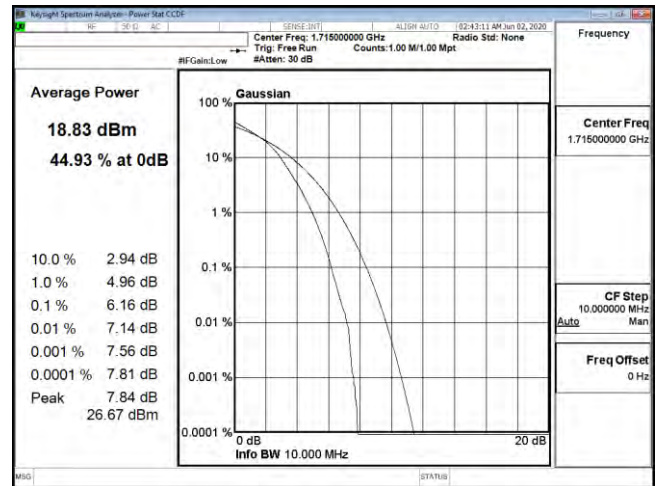
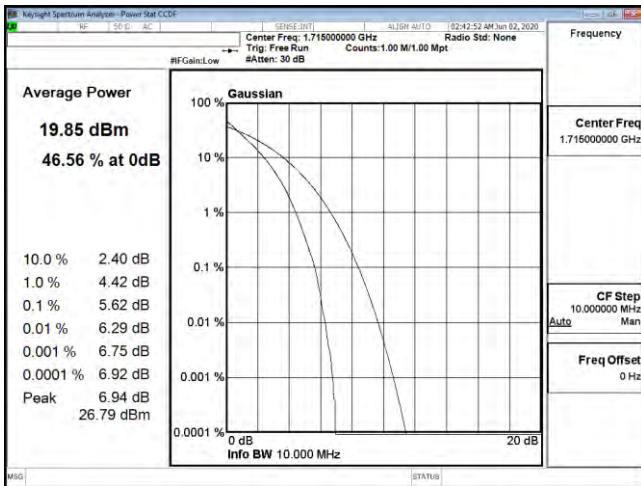
PTAR B66 5M CH132322 16QAMM



PTAR B66 5M CH132647 QPSK

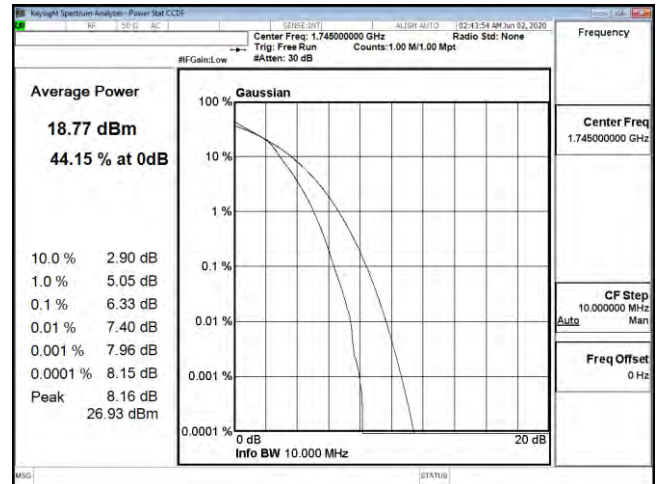
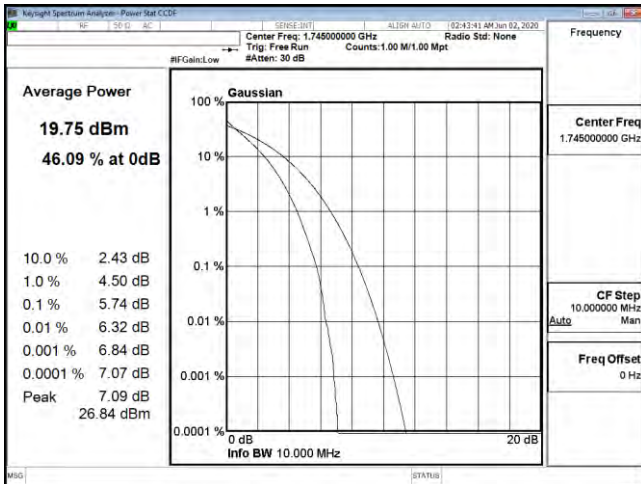


PTAR B66 5M CH132647 16QAM



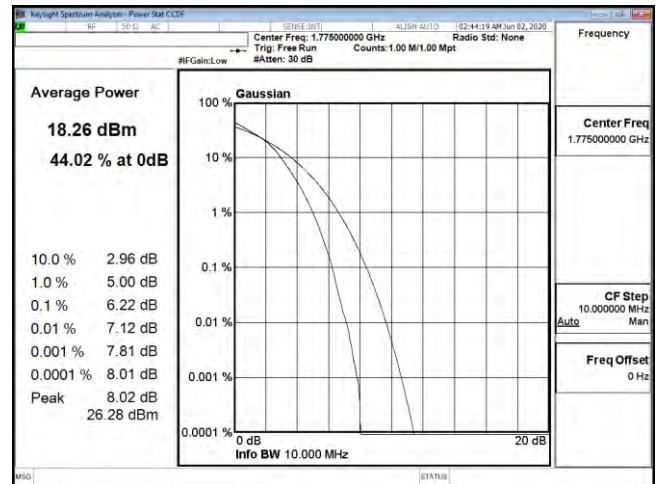
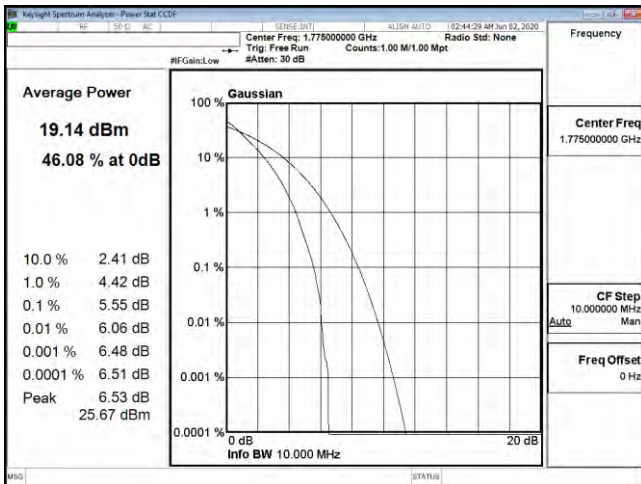
PTAR B66 10M CH132022 QPSK

PTAR B66 10M CH132022 16QAM



PTAR B66 10M CH132322 QPSK

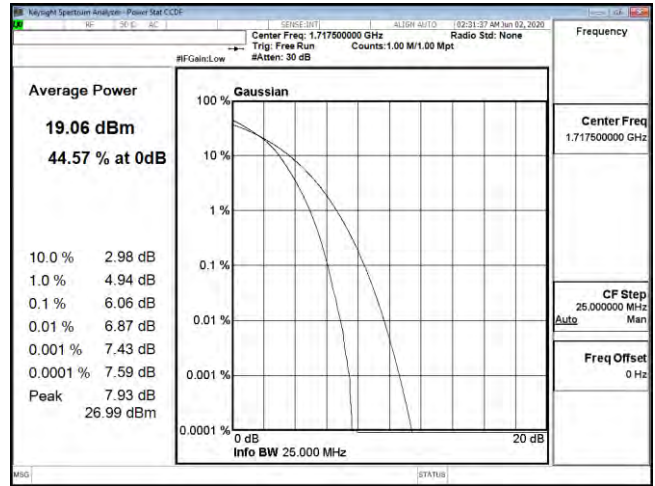
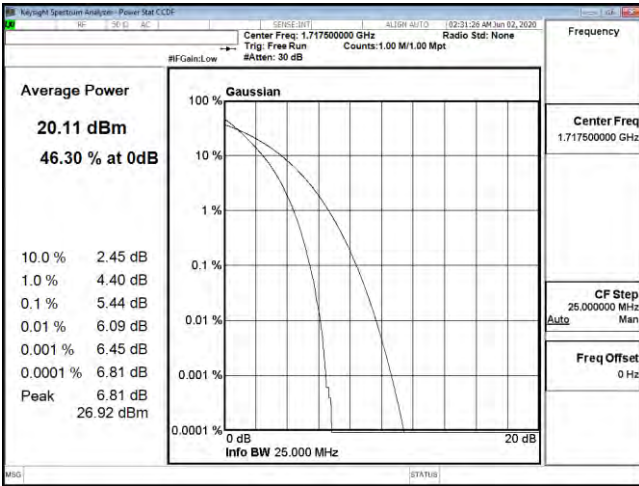
PTAR B66 10M CH132322 16QAM



PTAR B66 10M CH132622 QPSK

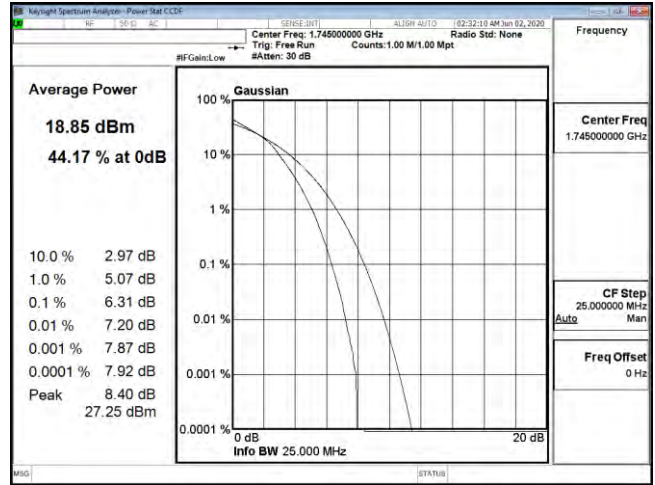
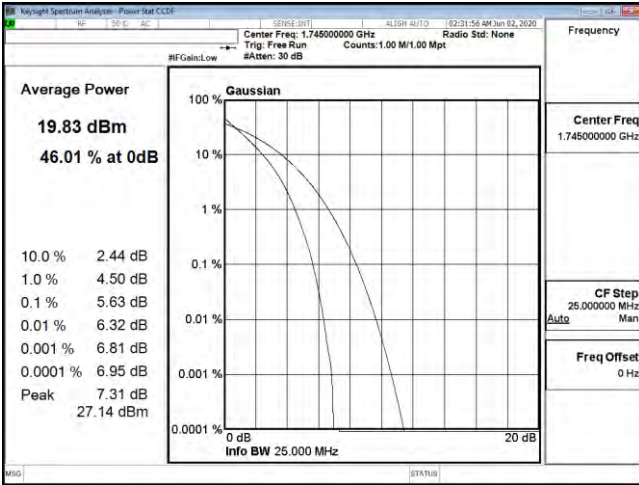
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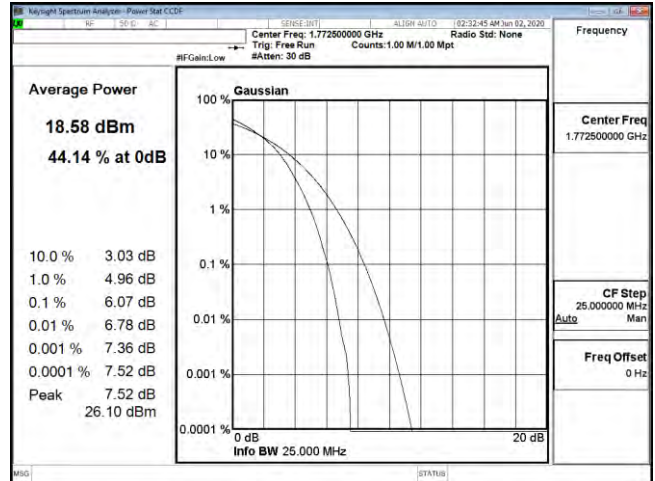
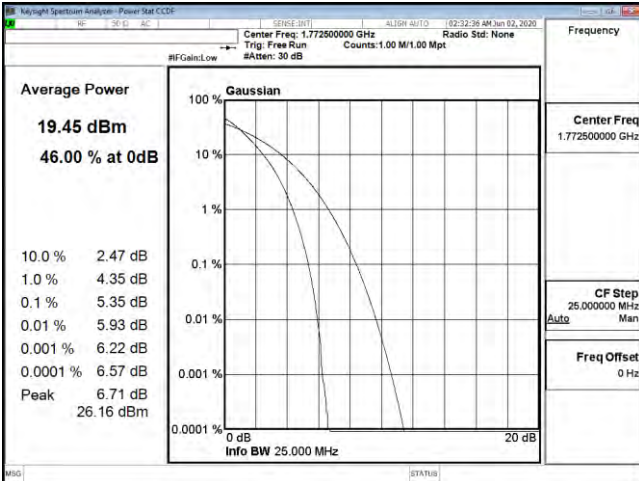
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PTAR B66 15M CH132047 16QAM



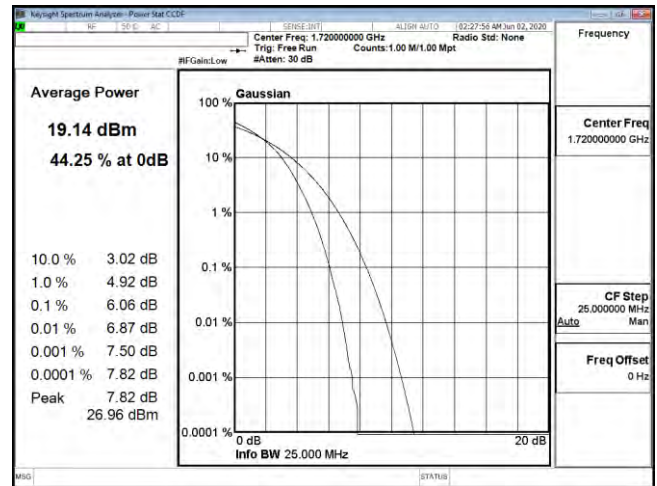
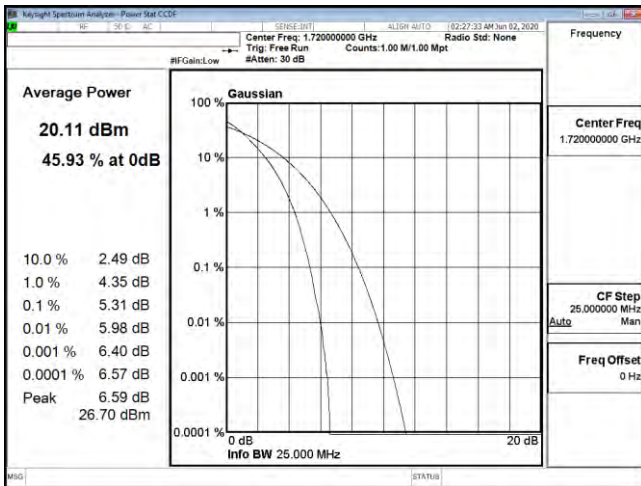
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PTAR B66 15M CH132322 16QAM



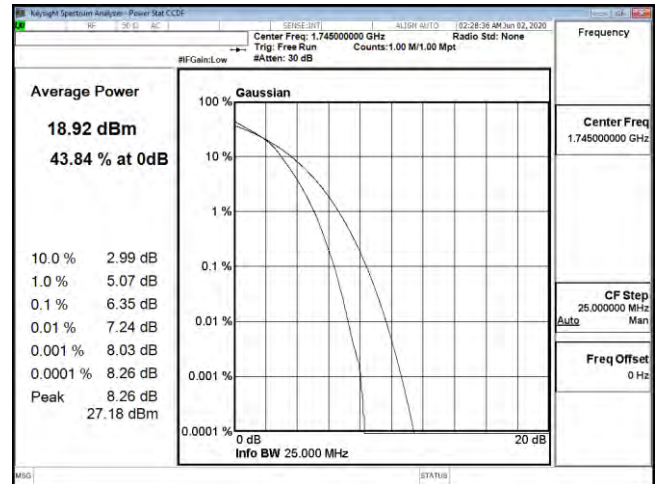
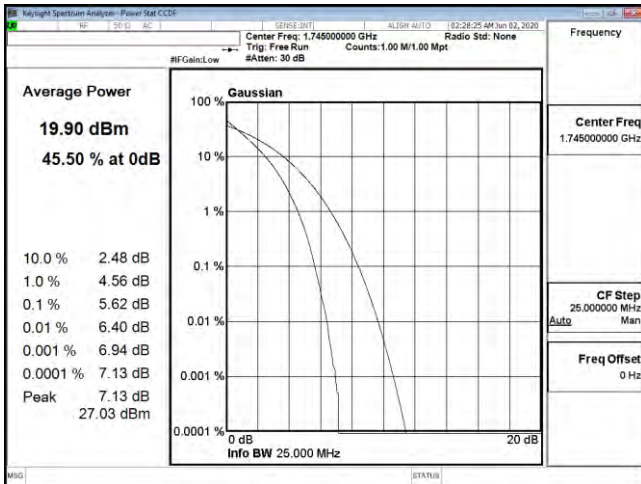
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PTAR B66 15M CH132597 16QAM



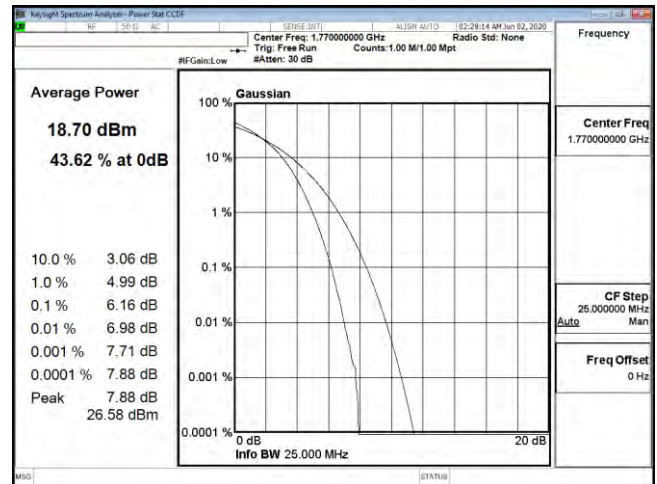
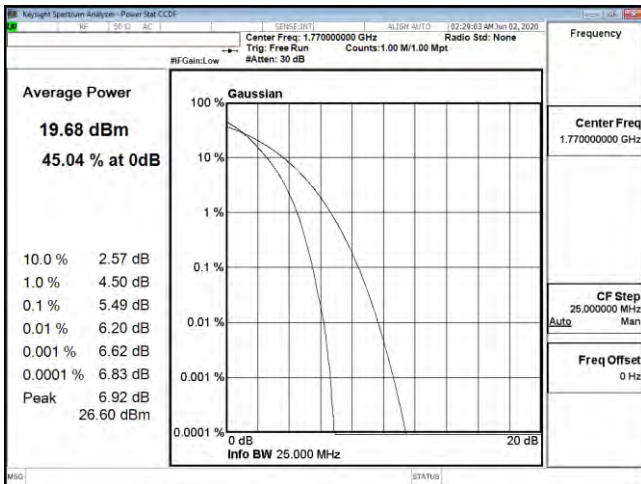
PTAR B66 20M CH132072 QPSK

PTAR B66 20M CH132072 16QAM



PTAR B66 20M CH132322 QPSK

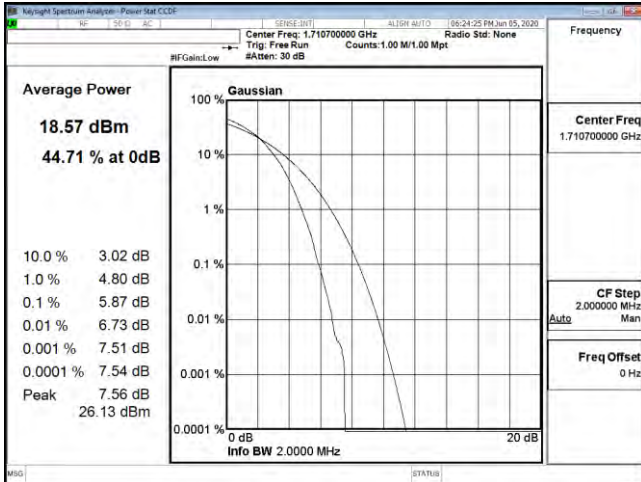
PTAR B66 20M CH132322 16QAM



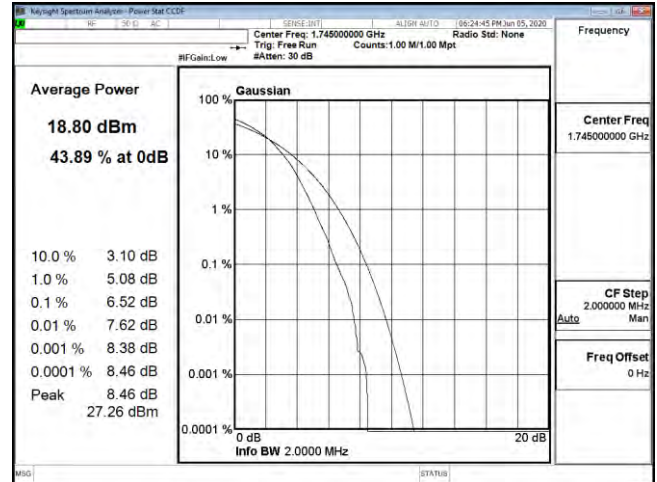
PTAR B66 20M CH132572 QPSK

PTAR B66 20M CH132572 16QAM

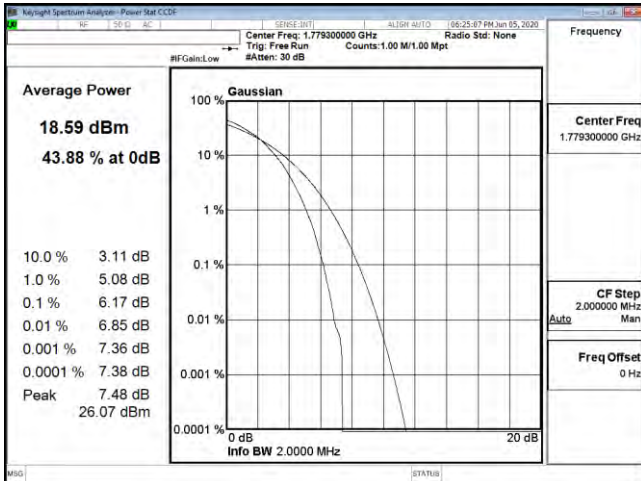
Product	LTE Module		
Test Mode	Peak to Average Ratio		
Date of Test	2020/06/04	Test Site	CTR
Test Condition	LTE-Band 66 64QAM		



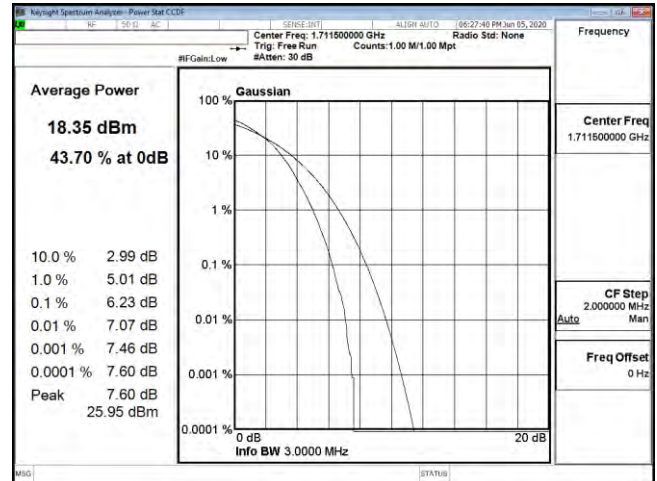
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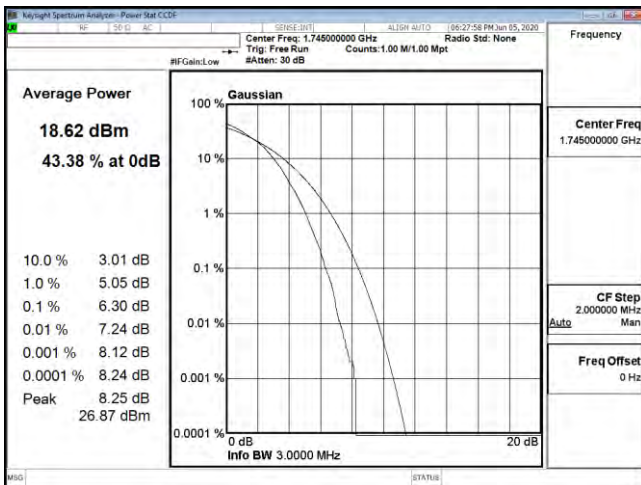
PTAR B66 1.4M CH132322 64QAM



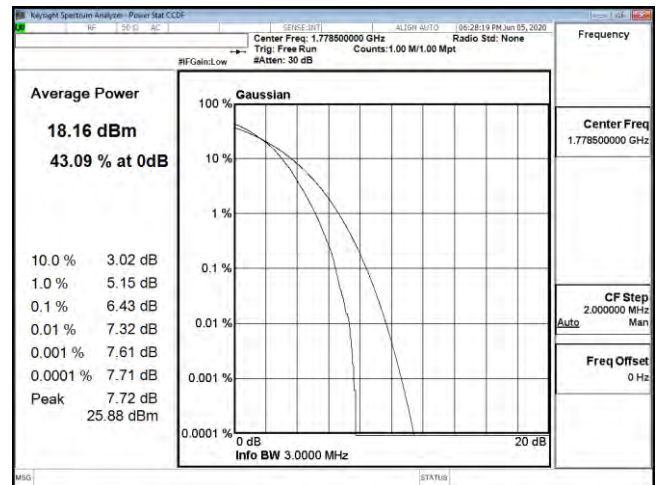
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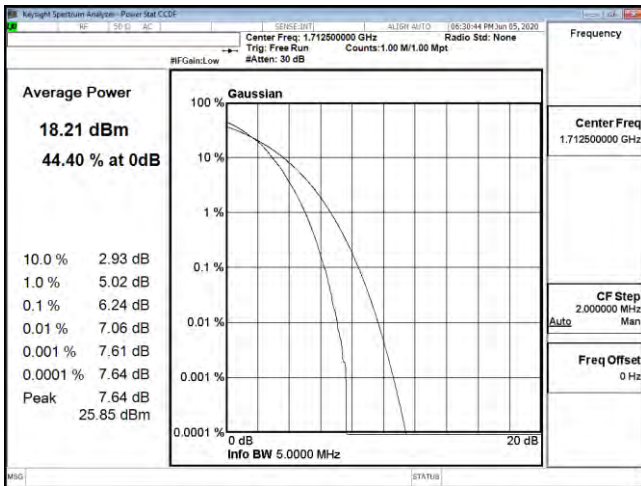
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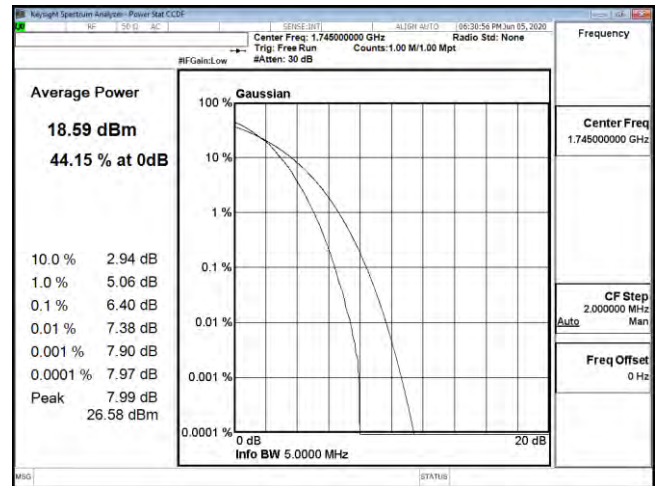
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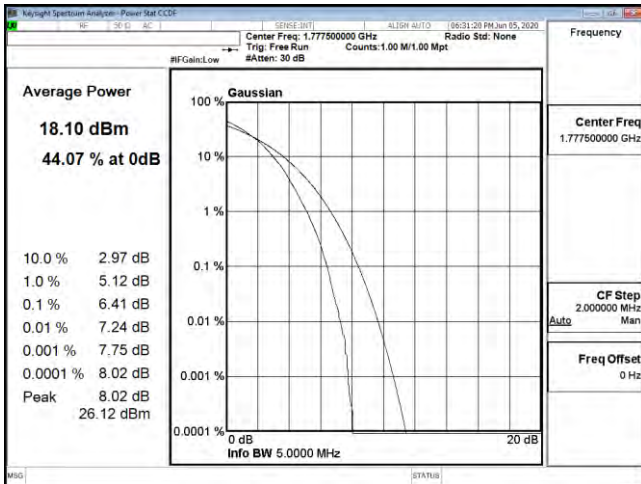
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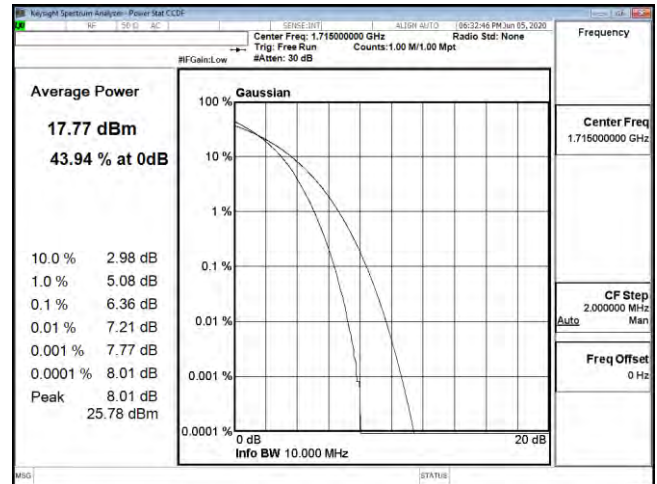
PTAR B66 5M CH131997 64QAM



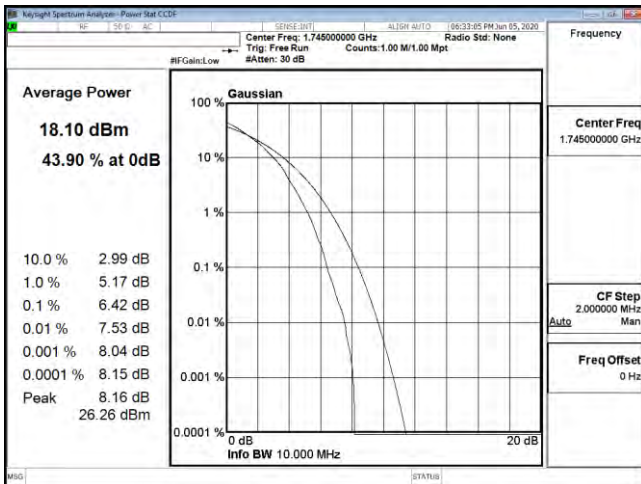
PTAR B66 5M CH132322 64QAM



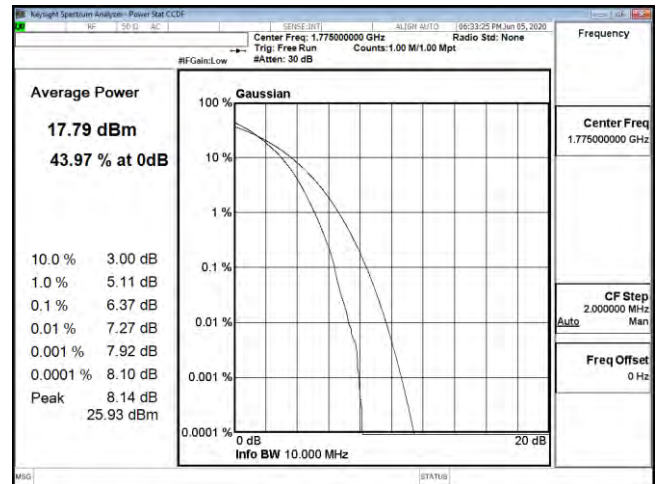
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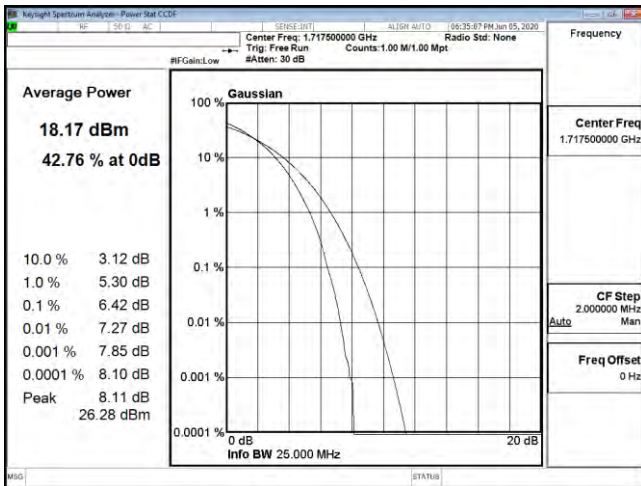
PTAR B66 10M CH132022 64QAM



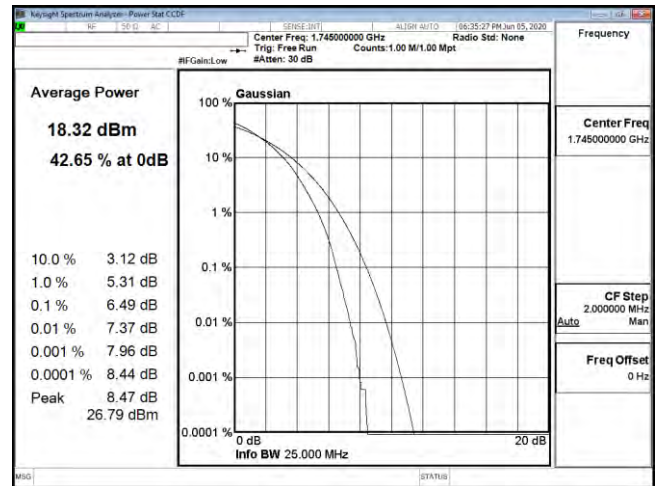
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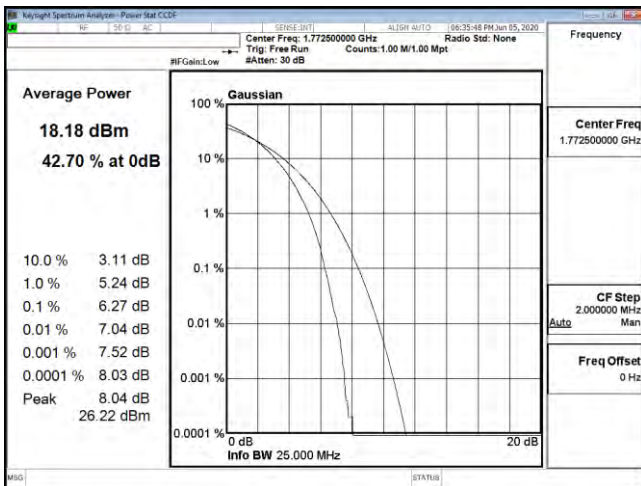
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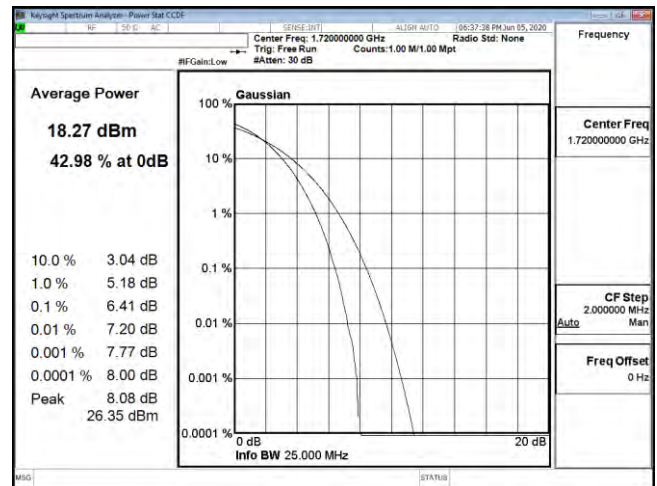
PTAR B66 15M CH132047 64QAM



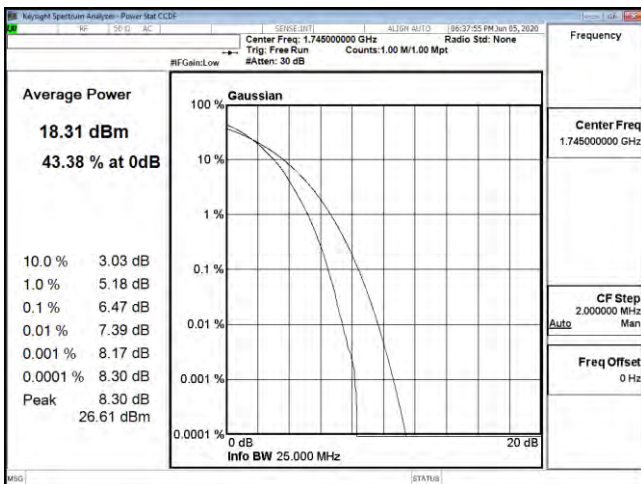
PTAR B66 15M CH132322 64QAM



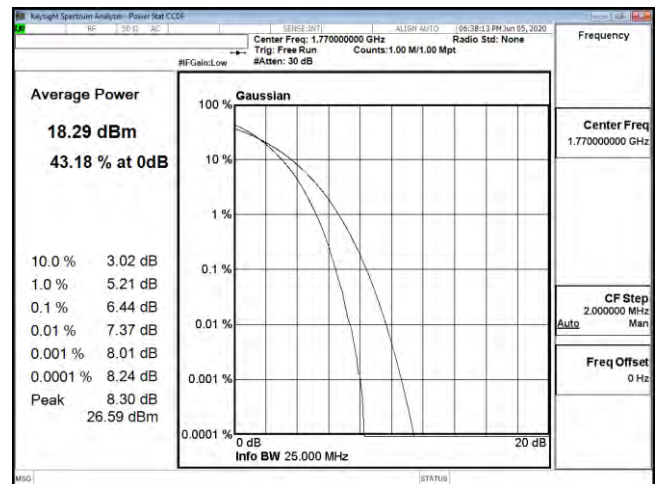
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PTAR B66 20M CH132322 64QAM

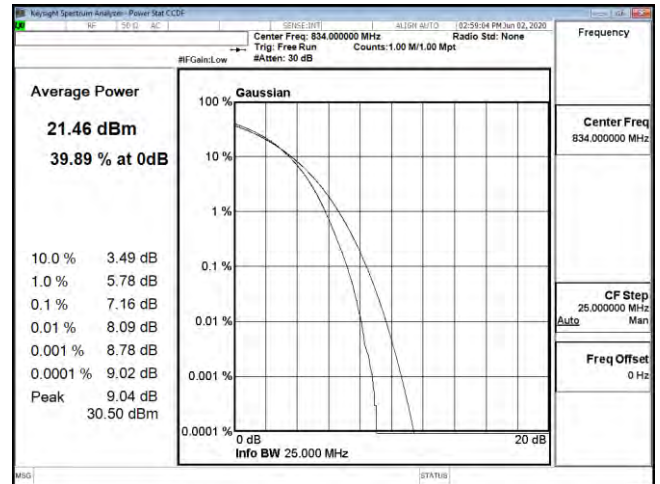
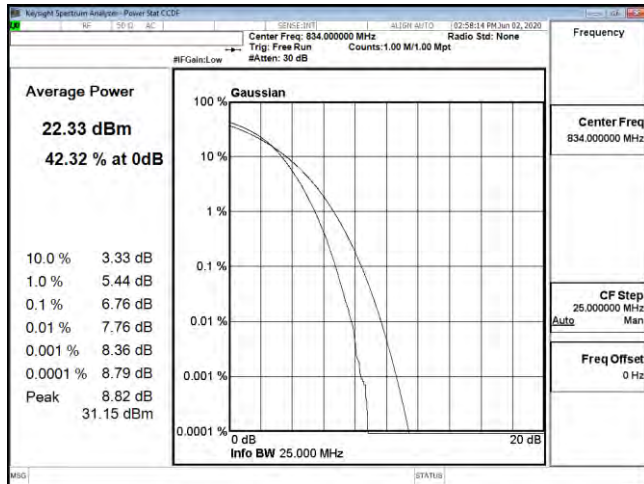


PTAR B66 20M CH132322 64QAM



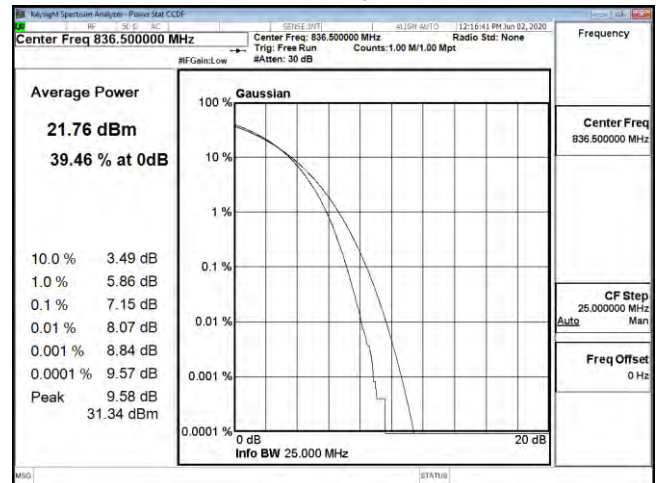
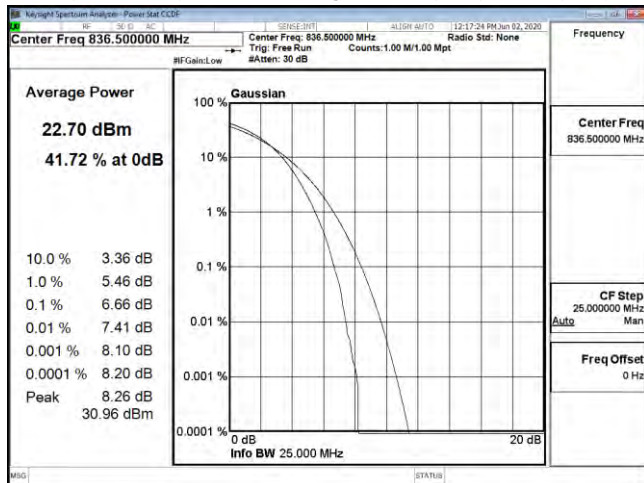
PTAR B66 20M CH132572 64QAM

Product	LTE Module		
Test Mode	Peak to Average Ratio		
Date of Test	2020/06/04	Test Site	CTR
Test Condition	2UL_CA_5B		



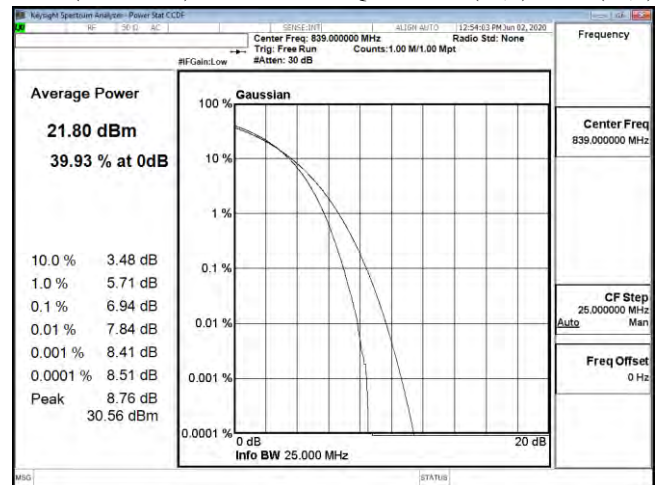
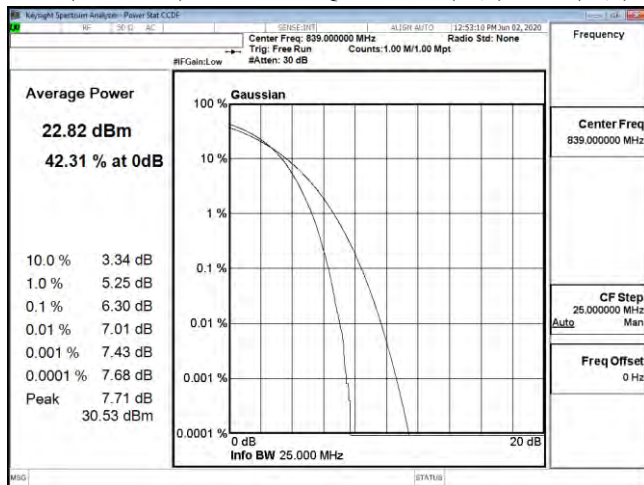
PTAR(10M+10M)-2ULCA\_5B-QPSK\_829(50,0)+838.9(50,0)

PTAR(10M+10M)-2ULCA\_5B-16QAM\_829(50,0)+838.9(50,0)



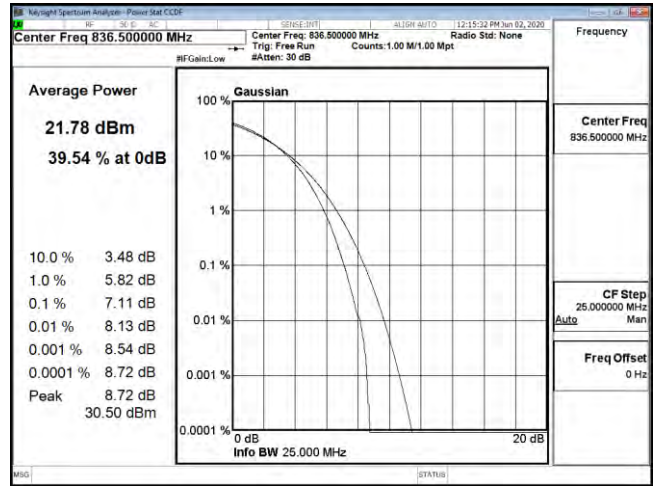
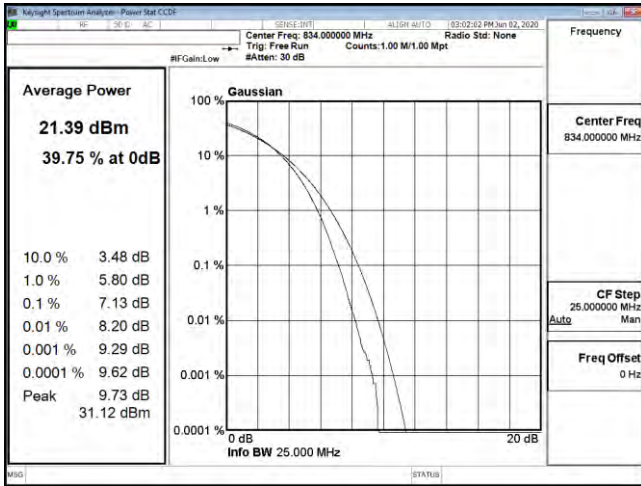
PTAR(10M+10M)-2ULCA\_5B-QPSK\_831.6(50,0)+841.5(50,0)

PTAR(10M+10M)-2ULCA\_5B-16QAM\_831.6(50,0)+841.5(50,0)



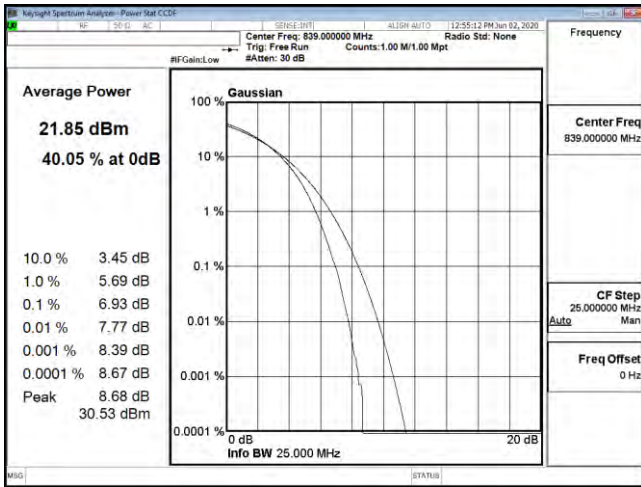
PTAR(10M+10M)-2ULCA\_5B-QPSK\_834.1(50,0)+844(50,0)

PTAR(10M+10M)-2ULCA\_5B-16QAM\_834.1(50,0)+844(50,0)



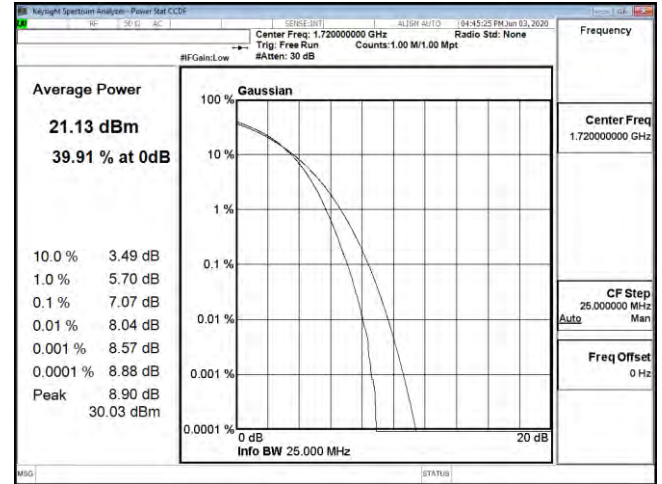
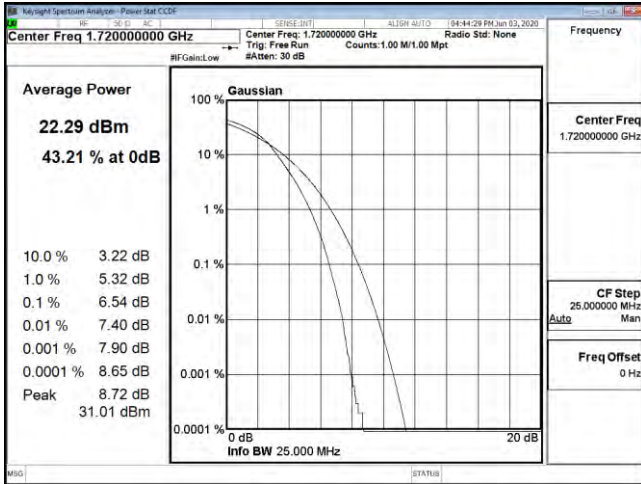
PTAR(10M+10M)-2ULCA\_5B-64QAM\_829(50,0)+838.9(50,0)

PTAR(10M+10M)-2ULCA\_5B-64QAM\_831.6(50,0)+841.5(50,0)



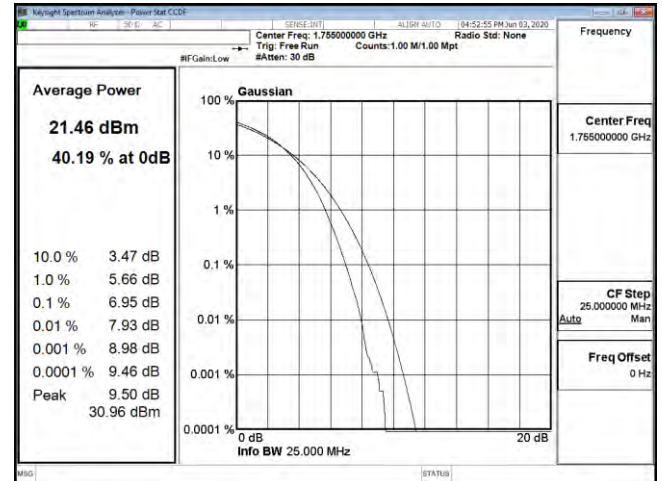
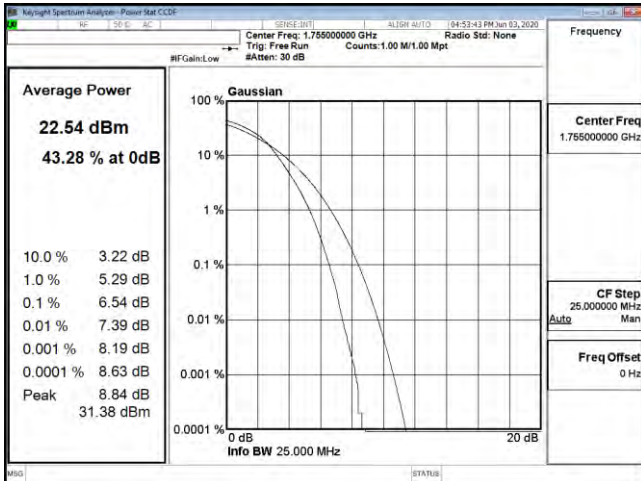
PTAR(10M+10M)-2ULCA\_5B-64QAM\_834.1(50,0)+844(50,0)

Product	LTE Module		
Test Mode	Peak to Average Ratio		
Date of Test	2020/06/04	Test Site	CTR
Test Condition	2UL_CA_66B		



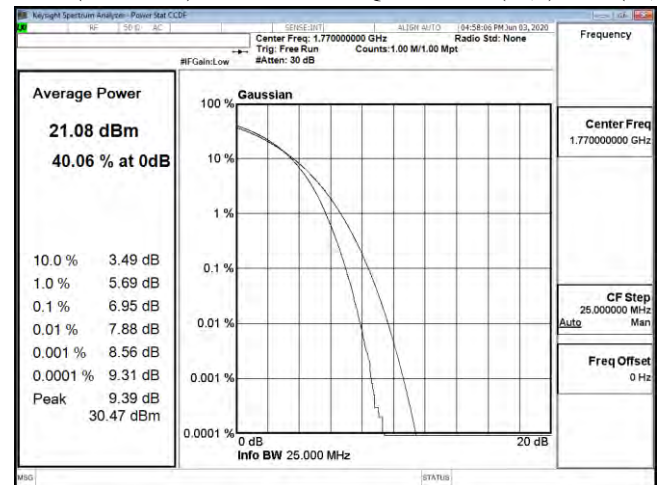
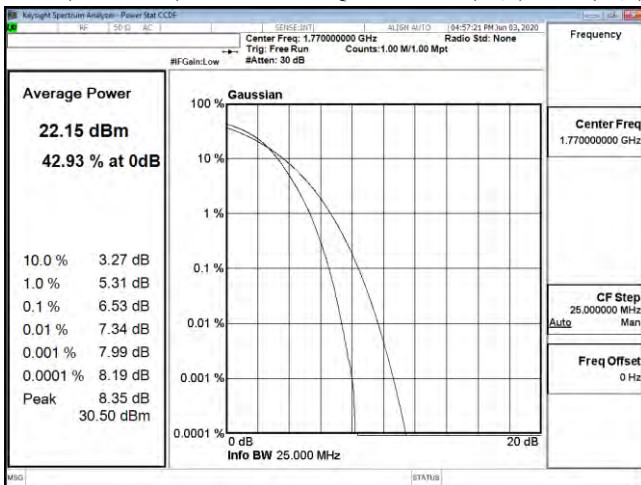
PTAR(10M+10M)-2ULCA\_66B-QPSK\_1715(50,0)+1724.9(50,0)

PTAR(10M+10M)-2ULCA\_66B-16QAM\_1715(50,0)+1724.9(50,0)



PTAR(10M+10M)-2ULCA\_66B-QPSK\_1750.1(50,0)+1760(50,0)

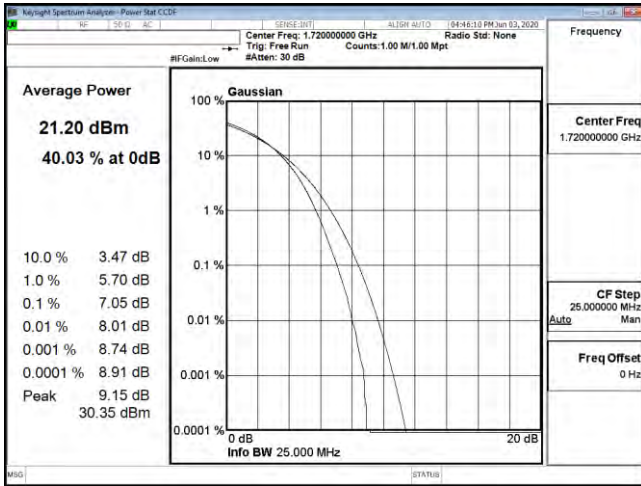
PTAR(10M+10M)-2ULCA\_66B-16QAM\_1750.1(50,0)+1760(50,0)



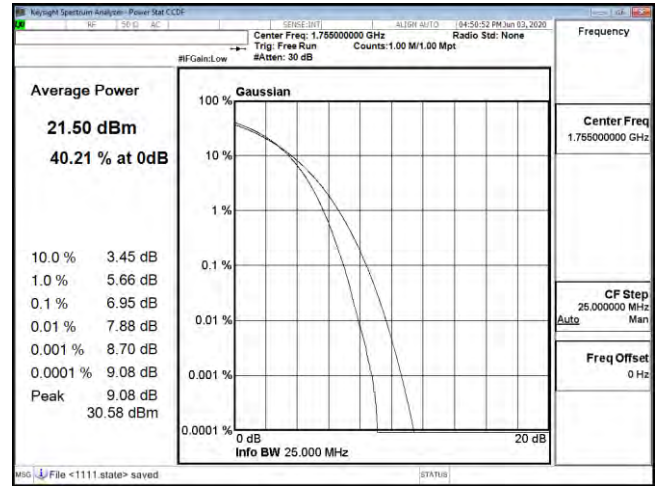
PTAR(10M+10M)-2ULCA\_66B-QPSK\_1765.1(50,0)+1775(50,0)

PTAR(10M+10M)-2ULCA\_66B-16QAM\_1765.1(50,0)+1775(50,0)

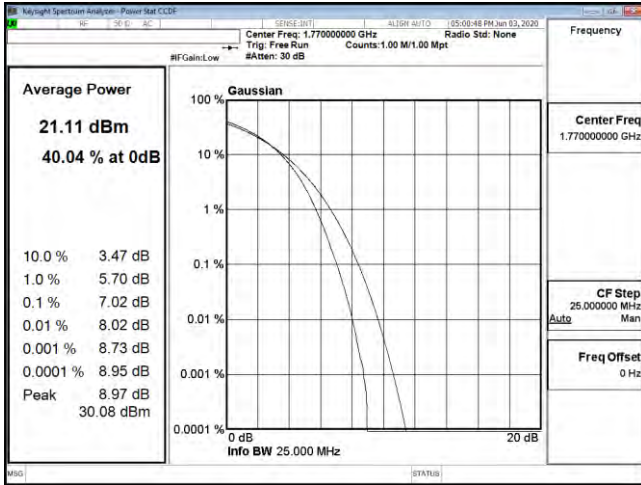




PTAR(10M+10M)-2ULCA\_66B-64QAM\_1715(50,0)+1724.9(50,0)

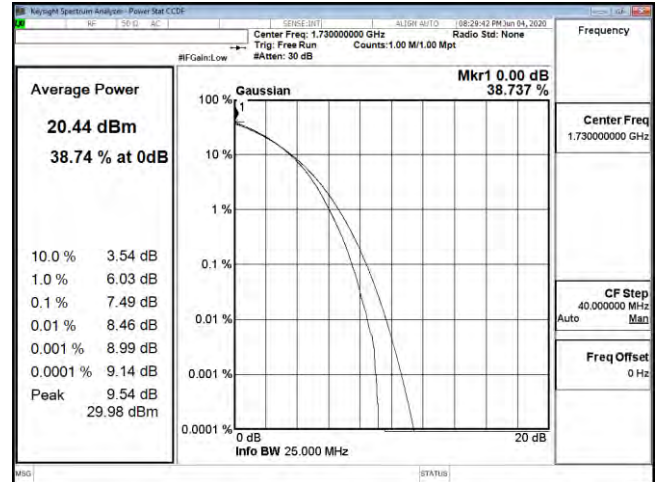
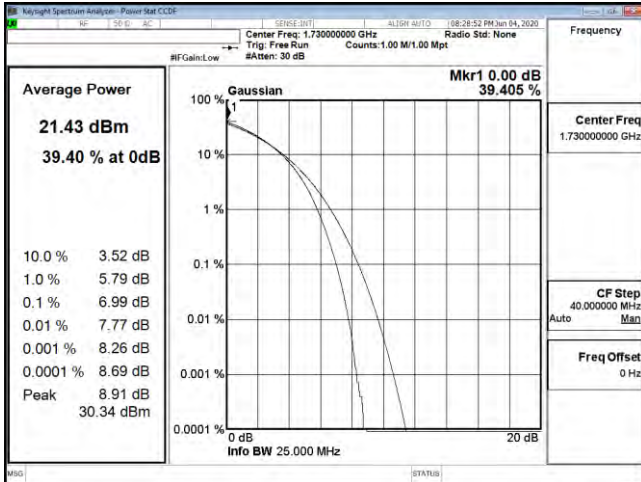


PTAR(10M+10M)-2ULCA\_66B-64QAM\_1750.1(50,0)+1760(50,0)



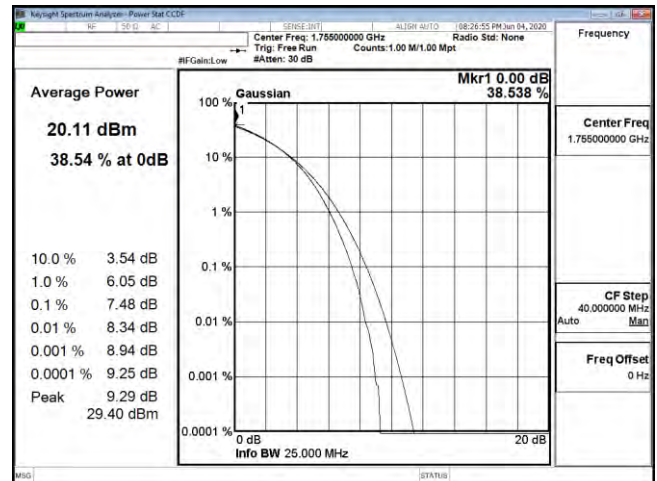
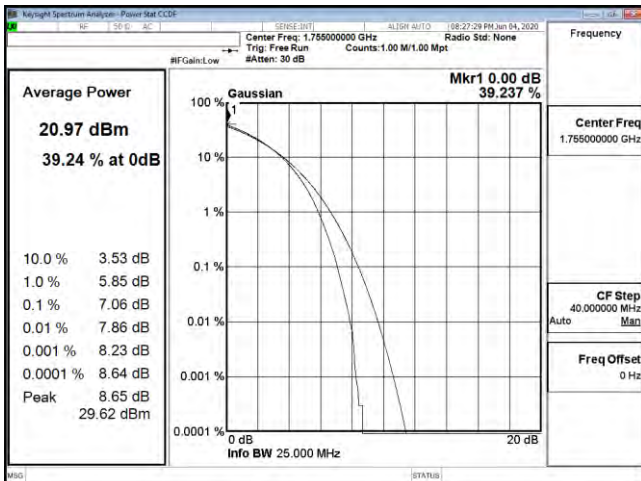
PTAR(10M+10M)-2ULCA\_66B-64QAM\_1765.1(50,0)+1775(50,0)

Product	LTE Module		
Test Mode	Peak to Average Ratio		
Date of Test	2020/06/04	Test Site	CTR
Test Condition	2UL_CA_66C		



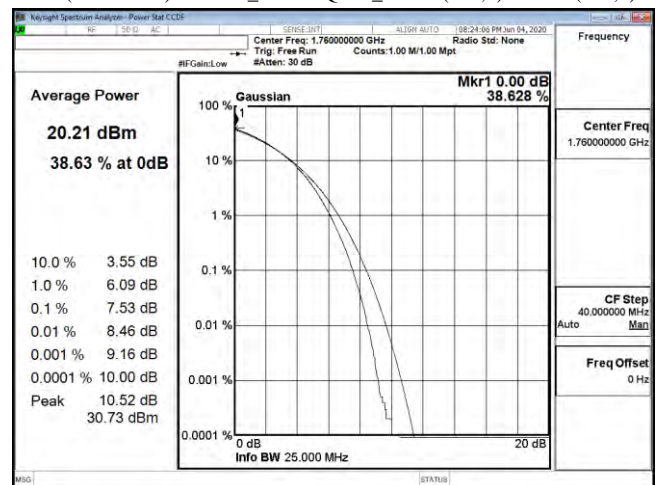
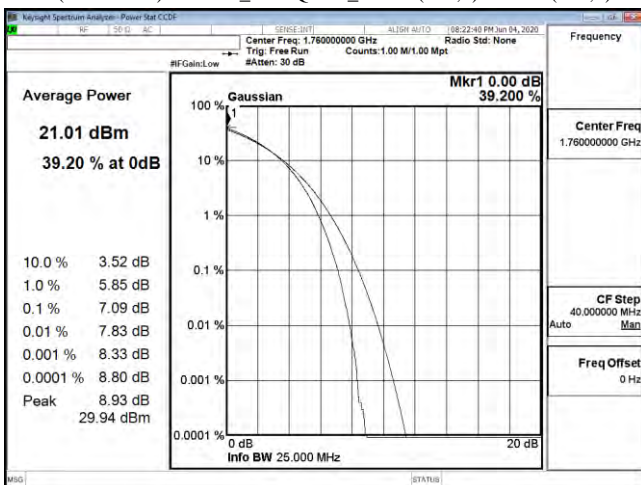
PTAR(20M+20M)-2ULCA\_66C-QPSK\_1720.1(100,0)+1739.8(100,0)

PTAR(20M+20M)-2ULCA\_66C-16QAM\_1720.1(100,0)+1739.8(100,0)



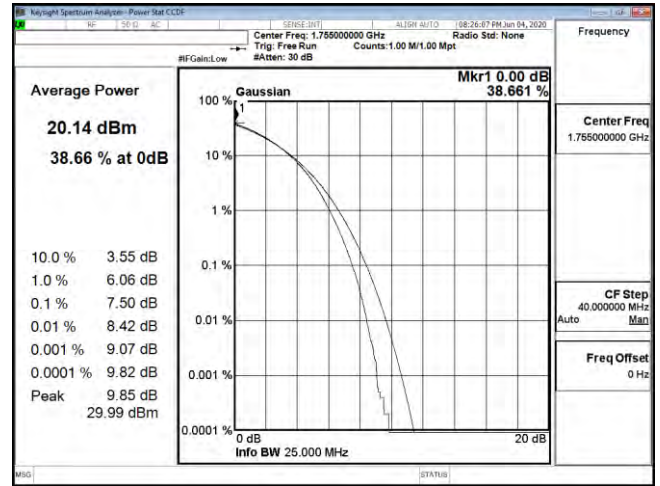
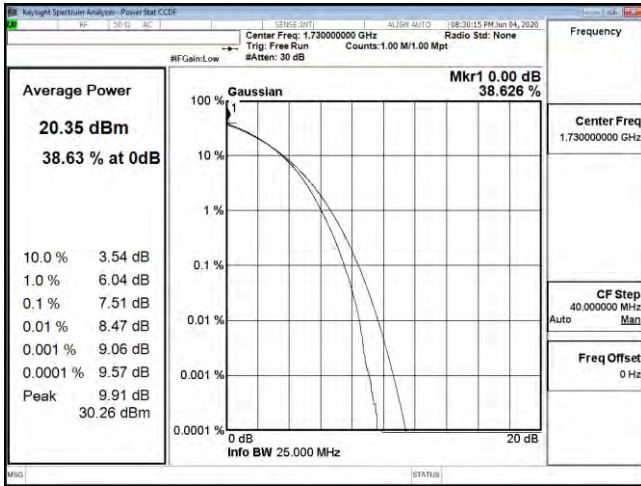
PTAR(20M+20M)-2ULCA\_66C-QPSK\_1745.1(100,0)+1764.9(100,0)

PTAR(20M+20M)-2ULCA\_66C-16QAM\_1745.1(100,0)+1764.9(100,0)



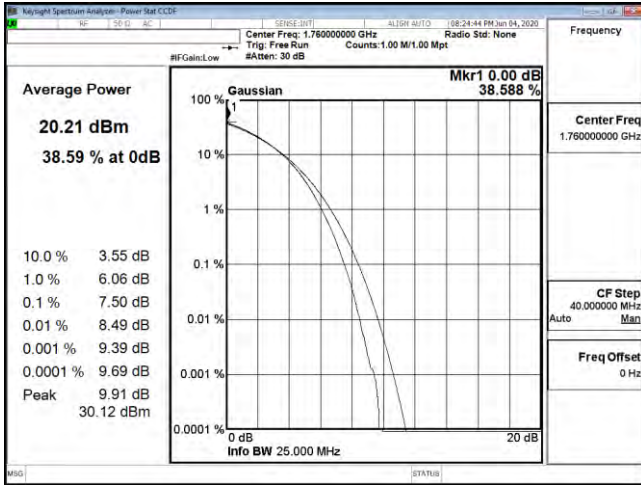
PTAR(20M+20M)-2ULCA\_66C-QPSK\_1750.2(100,0)+1770(100,0)

PTAR(20M+20M)-2ULCA\_66C-16QAM\_1750.2(100,0)+1770(100,0)



PTAR(20M+20M)-2ULCA\_66C-64QAM\_1720.1(100,0)+1739.8(100,0)

PTAR(20M+20M)-2ULCA\_66C-64QAM\_1745.1(100,0)+1764.9(100,0)



PTAR(20M+20M)-2ULCA\_66C-64QAM\_1750.2(100,0)+1770(100,0)