

RF Power Output and Effective Radiated Power

BAND	Bandwidth	Modulation	Channel	RB Configuration	Maximum Output Power(dBm)	Verdict
LTE Band 2	1.4M	QPSK	18607	1RB#0	23.06	PASS
LTE Band 2	1.4M	QPSK	18607	1RB#2	23.03	PASS
LTE Band 2	1.4M	QPSK	18607	1RB#5	22.72	PASS
LTE Band2	1.4M	QPSK	18607	3RB#0	22.00	PASS
LTE Band 2	1.4M	QPSK	18607	3RB#2	21.99	PASS
LTE Band 2	1.4M	QPSK	18607	3RB#3	22.01	PASS
LTE Band 2	1.4M	QPSK	18607	6RB#0	21.90	PASS
LTE Band 2	1.4M	QPSK	18900	1RB#0	23.08	PASS
LTE Band 2	1.4M	QPSK	18900	1RB#2	23.03	PASS
LTE Band 2	1.4M	QPSK	18900	1RB#5	22.71	PASS
LTE Band 2	1.4M	QPSK	18900	3RB#0	22.02	PASS
LTE Band 2	1.4M	QPSK	18900	3RB#2	22.05	PASS
LTE Band 2	1.4M	QPSK	18900	3RB#3	22.00	PASS
LTE Band 2	1.4M	QPSK	18900	6RB#0	21.98	PASS
LTE Band 2	1.4M	QPSK	19193	1RB#0	22.93	PASS
LTE Band 2	1.4M	QPSK	19193	1RB#2	23.20	PASS
LTE Band 2	1.4M	QPSK	19193	1RB#5	22.94	PASS
LTE Band 2	1.4M	QPSK	19193	3RB#0	22.01	PASS
LTE Band 2	1.4M	QPSK	19193	3RB#2	22.00	PASS
LTE Band 2	1.4M	QPSK	19193	3RB#3	22.04	PASS
LTE Band 2	1.4M	QPSK	19193	6RB#0	22.08	PASS
LTE Band 2	1.4M	16QAM	18607	1RB#0	21.99	PASS
LTE Band 2	1.4M	16QAM	18607	1RB#2	22.06	PASS
LTE Band 2	1.4M	16QAM	18607	1RB#5	22.13	PASS
LTE Band 2	1.4M	16QAM	18607	3RB#0	21.28	PASS
LTE Band 2	1.4M	16QAM	18607	3RB#2	21.21	PASS
LTE Band 2	1.4M	16QAM	18607	3RB#3	21.06	PASS
LTE Band 2	1.4M	16QAM	18607	6RB#0	21.35	PASS
LTE Band 2	1.4M	16QAM	18900	1RB#0	21.82	PASS
LTE Band 2	1.4M	16QAM	18900	1RB#2	21.89	PASS
LTE Band 2	1.4M	16QAM	18900	1RB#5	21.98	PASS
LTE Band 2	1.4M	16QAM	18900	3RB#0	21.28	PASS
LTE Band 2	1.4M	16QAM	18900	3RB#2	21.25	PASS
LTE Band 2	1.4M	16QAM	18900	3RB#3	21.17	PASS
LTE Band 2	1.4M	16QAM	18900	6RB#0	21.38	PASS
LTE Band 2	1.4M	16QAM	19193	1RB#0	22.60	PASS
LTE Band 2	1.4M	16QAM	19193	1RB#2	21.79	PASS



LTE Band 2	1.4M	16QAM	19193	1RB#5	21.81	PASS
LTE Band 2	1.4M	16QAM	19193	3RB#0	20.87	PASS
LTE Band 2	1.4M	16QAM	19193	3RB#2	20.89	PASS
LTE Band 2	1.4M	16QAM	19193	3RB#3	20.92	PASS
LTE Band 2	1.4M	16QAM	19193	6RB#0	21.29	PASS
LTE Band 2	3M	QPSK	18615	1RB#0	23.08	PASS
LTE Band 2	3M	QPSK	18615	1RB#7	23.06	PASS
LTE Band 2	3M	QPSK	18615	1RB#14	22.75	PASS
LTE Band 2	3M	QPSK	18615	8RB#0	22.08	PASS
LTE Band 2	3M	QPSK	18615	8RB#4	22.09	PASS
LTE Band 2	3M	QPSK	18615	8RB#7	22.09	PASS
LTE Band 2	3M	QPSK	18615	15RB#0	21.93	PASS
LTE Band 2	3M	QPSK	18900	1RB#0	23.12	PASS
LTE Band 2	3M	QPSK	18900	1RB#7	23.08	PASS
LTE Band 2	3M	QPSK	18900	1RB#14	22.76	PASS
LTE Band 2	3M	QPSK	18900	8RB#0	22.12	PASS
LTE Band 2	3M	QPSK	18900	8RB#4	22.13	PASS
LTE Band 2	3M	QPSK	18900	8RB#7	22.09	PASS
LTE Band 2	3M	QPSK	18900	15RB#0	22.02	PASS
LTE Band 2	3M	QPSK	19185	1RB#0	22.96	PASS
LTE Band 2	3M	QPSK	19185	1RB#7	23.24	PASS
LTE Band 2	3M	QPSK	19185	1RB#14	22.98	PASS
LTE Band 2	3M	QPSK	19185	8RB#0	22.12	PASS
LTE Band 2	3M	QPSK	19185	8RB#4	22.10	PASS
LTE Band 2	3M	QPSK	19185	8RB#7	22.12	PASS
LTE Band 2	3M	QPSK	19185	15RB#0	22.11	PASS
LTE Band 2	3M	16QAM	18615	1RB#0	21.94	PASS
LTE Band 2	3M	16QAM	18615	1RB#7	22.04	PASS
LTE Band 2	3M	16QAM	18615	1RB#14	22.10	PASS
LTE Band 2	3M	16QAM	18615	8RB#0	21.25	PASS
LTE Band 2	3M	16QAM	18615	8RB#4	21.18	PASS
LTE Band 2	3M	16QAM	18615	8RB#7	21.04	PASS
LTE Band 2	3M	16QAM	18615	15RB#0	21.32	PASS
LTE Band 2	3M	16QAM	18900	1RB#0	21.80	PASS
LTE Band 2	3M	16QAM	18900	1RB#7	21.86	PASS
LTE Band 2	3M	16QAM	18900	1RB#14	21.94	PASS
LTE Band 2	3M	16QAM	18900	8RB#0	21.26	PASS
LTE Band 2	3M	16QAM	18900	8RB#4	21.20	PASS
LTE Band 2	3M	16QAM	18900	8RB#7	21.13	PASS
LTE Band 2	3M	16QAM	18900	15RB#0	21.33	PASS
LTE Band 2	3M	16QAM	19185	1RB#0	22.58	PASS
LTE Band 2	3M	16QAM	19185	1RB#7	21.77	PASS
LTE Band 2	3M	16QAM	19185	1RB#14	21.78	PASS



LTE Band 2	3M	16QAM	19185	8RB#0	20.84	PASS
LTE Band 2	3M	16QAM	19185	8RB#4	20.85	PASS
LTE Band 2	3M	16QAM	19185	8RB#7	20.89	PASS
LTE Band 2	3M	16QAM	19185	15RB#0	21.25	PASS
LTE Band 2	5M	QPSK	18625	1RB#0	23.12	PASS
LTE Band 2	5M	QPSK	18625	1RB#13	23.13	PASS
LTE Band 2	5M	QPSK	18625	1RB#24	22.81	PASS
LTE Band 2	5M	QPSK	18625	12RB#0	22.15	PASS
LTE Band 2	5M	QPSK	18625	12RB#6	22.14	PASS
LTE Band 2	5M	QPSK	18625	12RB#13	22.16	PASS
LTE Band 2	5M	QPSK	18625	25RB#0	22.01	PASS
LTE Band 2	5M	QPSK	18900	1RB#0	23.24	PASS
LTE Band 2	5M	QPSK	18900	1RB#13	23.13	PASS
LTE Band 2	5M	QPSK	18900	1RB#24	22.83	PASS
LTE Band 2	5M	QPSK	18900	12RB#0	22.16	PASS
LTE Band 2	5M	QPSK	18900	12RB#6	22.18	PASS
LTE Band 2	5M	QPSK	18900	12RB#13	22.19	PASS
LTE Band 2	5M	QPSK	18900	25RB#0	22.11	PASS
LTE Band 2	5M	QPSK	19175	1RB#0	23.01	PASS
LTE Band 2	5M	QPSK	19175	1RB#13	23.31	PASS
LTE Band 2	5M	QPSK	19175	1RB#24	23.07	PASS
LTE Band 2	5M	QPSK	19175	12RB#0	22.18	PASS
LTE Band 2	5M	QPSK	19175	12RB#6	22.14	PASS
LTE Band 2	5M	QPSK	19175	12RB#13	22.12	PASS
LTE Band 2	5M	QPSK	19175	25RB#0	22.12	PASS
LTE Band 2	5M	16QAM	18625	1RB#0	21.92	PASS
LTE Band 2	5M	16QAM	18625	1RB#13	22.00	PASS
LTE Band 2	5M	16QAM	18625	1RB#24	22.08	PASS
LTE Band 2	5M	16QAM	18625	12RB#0	21.22	PASS
LTE Band 2	5M	16QAM	18625	12RB#6	21.15	PASS
LTE Band 2	5M	16QAM	18625	12RB#13	21.01	PASS
LTE Band 2	5M	16QAM	18625	25RB#0	21.30	PASS
LTE Band 2	5M	16QAM	18900	1RB#0	21.76	PASS
LTE Band 2	5M	16QAM	18900	1RB#13	21.84	PASS
LTE Band 2	5M	16QAM	18900	1RB#24	21.91	PASS
LTE Band 2	5M	16QAM	18900	12RB#0	21.22	PASS
LTE Band 2	5M	16QAM	18900	12RB#6	21.18	PASS
LTE Band 2	5M	16QAM	18900	12RB#13	21.08	PASS
LTE Band 2	5M	16QAM	18900	25RB#0	21.29	PASS
LTE Band 2	5M	16QAM	19175	1RB#0	22.53	PASS
LTE Band 2	5M	16QAM	19175	1RB#13	21.73	PASS
LTE Band 2	5M	16QAM	19175	1RB#24	21.76	PASS
LTE Band 2	5M	16QAM	19175	12RB#0	20.81	PASS



LTE Band 2	5M	16QAM	19175	12RB#6	20.82	PASS
LTE Band 2	5M	16QAM	19175	12RB#13	20.85	PASS
LTE Band 2	5M	16QAM	19175	25RB#0	21.22	PASS
LTE Band 2	10M	QPSK	18650	1RB#0	23.07	PASS
LTE Band 2	10M	QPSK	18650	1RB#25	23.07	PASS
LTE Band 2	10M	QPSK	18650	1RB#49	22.74	PASS
LTE Band 2	10M	QPSK	18650	25RB#0	22.08	PASS
LTE Band 2	10M	QPSK	18650	25RB#13	22.10	PASS
LTE Band 2	10M	QPSK	18650	25RB#25	22.09	PASS
LTE Band 2	10M	QPSK	18650	50RB#0	21.99	PASS
LTE Band 2	10M	QPSK	18900	1RB#0	23.11	PASS
LTE Band 2	10M	QPSK	18900	1RB#25	23.09	PASS
LTE Band 2	10M	QPSK	18900	1RB#49	22.75	PASS
LTE Band 2	10M	QPSK	18900	25RB#0	22.12	PASS
LTE Band 2	10M	QPSK	18900	25RB#13	22.14	PASS
LTE Band 2	10M	QPSK	18900	25RB#25	22.11	PASS
LTE Band 2	10M	QPSK	18900	50RB#0	22.03	PASS
LTE Band 2	10M	QPSK	19150	1RB#0	22.95	PASS
LTE Band 2	10M	QPSK	19150	1RB#25	23.25	PASS
LTE Band 2	10M	QPSK	19150	1RB#49	22.97	PASS
LTE Band 2	10M	QPSK	19150	25RB#0	22.12	PASS
LTE Band 2	10M	QPSK	19150	25RB#13	22.09	PASS
LTE Band 2	10M	QPSK	19150	25RB#25	22.13	PASS
LTE Band 2	10M	QPSK	19150	50RB#0	22.13	PASS
LTE Band 2	10M	16QAM	18650	1RB#0	22.73	PASS
LTE Band 2	10M	16QAM	18650	1RB#25	22.73	PASS
LTE Band 2	10M	16QAM	18650	1RB#49	22.43	PASS
LTE Band 2	10M	16QAM	18900	1RB#0	22.37	PASS
LTE Band 2	10M	16QAM	18900	1RB#25	22.55	PASS
LTE Band 2	10M	16QAM	18900	1RB#49	22.44	PASS
LTE Band 2	10M	16QAM	19150	1RB#0	22.39	PASS
LTE Band 2	10M	16QAM	19150	1RB#25	22.56	PASS
LTE Band 2	10M	16QAM	19150	1RB#49	22.17	PASS
LTE Band 2	15M	QPSK	18675	1RB#0	23.06	PASS
LTE Band 2	15M	QPSK	18675	1RB#38	23.05	PASS
LTE Band 2	15M	QPSK	18675	1RB#74	22.71	PASS
LTE Band 2	15M	QPSK	18675	36RB#0	22.06	PASS
LTE Band 2	15M	QPSK	18675	36RB#18	22.07	PASS
LTE Band 2	15M	QPSK	18675	36RB#39	22.06	PASS
LTE Band 2	15M	QPSK	18675	75RB#0	21.97	PASS
LTE Band 2	15M	QPSK	18900	1RB#0	23.07	PASS
LTE Band 2	15M	QPSK	18900	1RB#38	23.08	PASS
LTE Band 2	15M	QPSK	18900	1RB#74	22.70	PASS



LTE Band 2	15M	QPSK	18900	36RB#0	22.08	PASS
LTE Band 2	15M	QPSK	18900	36RB#18	22.09	PASS
LTE Band 2	15M	QPSK	18900	36RB#39	22.08	PASS
LTE Band 2	15M	QPSK	18900	75RB#0	21.99	PASS
LTE Band 2	15M	QPSK	19125	1RB#0	22.93	PASS
LTE Band 2	15M	QPSK	19125	1RB#38	23.22	PASS
LTE Band 2	15M	QPSK	19125	1RB#74	22.93	PASS
LTE Band 2	15M	QPSK	19125	36RB#0	22.09	PASS
LTE Band 2	15M	QPSK	19125	36RB#18	22.05	PASS
LTE Band 2	15M	QPSK	19125	36RB#39	22.09	PASS
LTE Band 2	15M	QPSK	19125	75RB#0	22.08	PASS
LTE Band 2	15M	16QAM	18675	1RB#0	22.68	PASS
LTE Band 2	15M	16QAM	18675	1RB#38	22.71	PASS
LTE Band 2	15M	16QAM	18675	1RB#74	22.40	PASS
LTE Band 2	15M	16QAM	18900	1RB#0	22.35	PASS
LTE Band 2	15M	16QAM	18900	1RB#38	22.52	PASS
LTE Band 2	15M	16QAM	18900	1RB#74	22.40	PASS
LTE Band 2	15M	16QAM	19125	1RB#0	22.37	PASS
LTE Band 2	15M	16QAM	19125	1RB#38	22.54	PASS
LTE Band 2	15M	16QAM	19125	1RB#74	22.14	PASS
LTE Band 2	20M	QPSK	18700	1RB#0	23.03	PASS
LTE Band 2	20M	QPSK	18700	1RB#50	23.04	PASS
LTE Band 2	20M	QPSK	18700	1RB#99	22.69	PASS
LTE Band 2	20M	QPSK	18700	50RB#0	22.03	PASS
LTE Band 2	20M	QPSK	18700	50RB#25	22.05	PASS
LTE Band 2	20M	QPSK	18700	50RB#50	22.03	PASS
LTE Band 2	20M	QPSK	18700	100RB#0	21.94	PASS
LTE Band 2	20M	QPSK	18900	1RB#0	23.03	PASS
LTE Band 2	20M	QPSK	18900	1RB#50	23.04	PASS
LTE Band 2	20M	QPSK	18900	1RB#99	22.69	PASS
LTE Band 2	20M	QPSK	18900	50RB#0	22.03	PASS
LTE Band 2	20M	QPSK	18900	50RB#25	22.05	PASS
LTE Band 2	20M	QPSK	18900	50RB#50	22.03	PASS
LTE Band 2	20M	QPSK	18900	100RB#0	21.94	PASS
LTE Band 2	20M	QPSK	19100	1RB#0	22.90	PASS
LTE Band 2	20M	QPSK	19100	1RB#50	23.20	PASS
LTE Band 2	20M	QPSK	19100	1RB#99	22.90	PASS
LTE Band 2	20M	QPSK	19100	50RB#0	22.05	PASS
LTE Band 2	20M	QPSK	19100	50RB#25	22.02	PASS
LTE Band 2	20M	QPSK	19100	50RB#50	22.05	PASS
LTE Band 2	20M	QPSK	19100	100RB#0	22.04	PASS
LTE Band 2	20M	16QAM	18700	1RB#0	22.66	PASS
LTE Band 2	20M	16QAM	18700	1RB#50	22.67	PASS



LTE Band 2	20M	16QAM	18700	1RB#99	22.38	PASS
LTE Band 2	20M	16QAM	18900	1RB#0	22.31	PASS
LTE Band 2	20M	16QAM	18900	1RB#50	22.50	PASS
LTE Band 2	20M	16QAM	18900	1RB#99	22.37	PASS
LTE Band 2	20M	16QAM	19100	1RB#0	22.32	PASS
LTE Band 2	20M	16QAM	19100	1RB#50	22.50	PASS
LTE Band 2	20M	16QAM	19100	1RB#99	22.12	PASS

Radiates Spurious Emission

EC21-ADL

LTE Band 2 1.4MHz CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3817.50	-58.58	5.10	11.05	Vertical	-52.63	-13.00	39.63	90
3	5726.63	-55.46	5.42	12.65	Vertical	-48.23	-13.00	35.23	270
4	7637.20	-56.65	6.70	13.85	Vertical	-49.50	-13.00	36.50	315
5	9546.50	-55.62	7.01	14.75	Vertical	-47.88	-13.00	34.88	90
6	11455.80	-51.84	7.48	15.95	Vertical	-43.37	-13.00	30.37	90
7	13365.10	-54.32	7.51	16.55	Vertical	-45.28	-13.00	32.28	315
8	15274.40	-56.06	8.24	15.35	Vertical	-48.95	-13.00	35.95	0
9	17183.70	-49.16	8.41	14.95	Vertical	-42.62	-13.00	29.62	180
10	19093.00	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Vertical position.

EC21-ADL MINIPCIE

LTE Band 2 1.4MHz CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3817.50	-58.95	5.10	11.05	Vertical	-53.00	-13.00	40.00	90
3	5726.63	-56.21	5.42	12.65	Vertical	-48.98	-13.00	35.98	270
4	7637.20	-56.52	6.70	13.85	Vertical	-49.37	-13.00	36.37	45
5	9546.50	-56.14	7.01	14.75	Vertical	-48.40	-13.00	35.40	180
6	11455.80	-51.43	7.48	15.95	Vertical	-42.96	-13.00	29.96	90
7	13365.10	-52.89	7.51	16.55	Vertical	-43.85	-13.00	30.85	270
8	15274.40	-55.63	8.24	15.35	Vertical	-48.52	-13.00	35.52	0
9	17183.70	-48.67	8.41	14.95	Vertical	-42.13	-13.00	29.13	0
10	19093.00	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Vertical position.

Main Test Instruments

Date of Testing (Variant): December 4, 2021 ~ December 16, 2021

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Wideband radio communication tester	R&S	CMW500	113645	2021-05-15	2022-05-14
Spectrum Analyzer	R&S	FSV30	104028	2021-05-15	2022-05-14
Horn Antenna	Schwarzbeck	BBHA 9120D	1594	2020-12-17	2023-12-16
Software	R&S	EMC32	10.35.10	/	/
Universal Radio Communication Tester	R&S	CMW500	150415	2021-05-15	2022-05-14