

LTE Band 66 QPSK 20MHz CH-High, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3472.1	-51.25	2.6	10.15	Horizontal	-43.70	-13.00	30.70	135
3	5208.4	-60.25	2.4	11.05	Horizontal	-51.60	-13.00	38.60	270
4	6980	-54.15	4.5	11.15	Horizontal	-47.50	-13.00	34.50	45
5	8725	-52.75	5.1	11.35	Horizontal	-46.50	-13.00	33.50	315
6	10470	-51.45	5.3	11.95	Horizontal	-44.80	-13.00	31.80	45
7	12215	-49.95	5.5	13.55	Horizontal	-41.90	-13.00	28.90	315
8	13960	-48.05	6.3	13.75	Horizontal	-40.60	-13.00	27.60	90
9	15705	-51.85	6.7	13.85	Horizontal	-44.70	-13.00	31.70	0
10	17450	-47.05	6.8	14.25	Horizontal	-39.60	-13.00	26.60	0
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 Horizontal position.									

LTE Band 71 QPSK 5MHz CH-Low, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1331.0	-53.66	2.00	10.15	Horizontal	-47.66	-13	34.66	225
3	1996.5	-64.36	2.50	11.35	Horizontal	-57.66	-13	44.66	0
4	2662.0	-59.72	4.20	10.85	Horizontal	-55.22	-13	42.22	90
5	3327.5	-61.95	5.20	11.35	Horizontal	-57.95	-13.00	44.95	90
6	3993	-59.30	5.50	11.95	Horizontal	-55.00	-13.00	42.00	135
7	4658.5	-59.65	5.70	13.55	Horizontal	-53.95	-13.00	40.95	90
8	5324	-59.80	6.30	13.75	Horizontal	-54.50	-13.00	41.50	135
9	5989.5	-56.70	6.80	13.85	Horizontal	-51.80	-13.00	38.80	270
10	6655	-54.70	6.90	14.25	Horizontal	-49.50	-13.00	36.50	45
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 Horizontal position.									

LTE Band 71 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1361	-57.77	2.00	10.75	Horizontal	-51.17	-13	38.17	315
3	2041.5	-63.78	2.51	11.05	Horizontal	-57.39	-13	44.39	90
4	2722	-59.84	4.20	11.15	Horizontal	-55.04	-13	42.04	135
5	3402.5	-61.20	5.20	11.15	Horizontal	-57.40	-13.00	44.40	135
6	4083	-59.20	5.50	11.95	Horizontal	-54.90	-13.00	41.90	90
7	4763.5	-59.50	5.70	13.55	Horizontal	-53.80	-13.00	40.80	180
8	5444	-57.96	6.30	13.75	Horizontal	-52.66	-13.00	39.66	225
9	6124.5	-55.80	6.80	13.85	Horizontal	-50.90	-13.00	37.90	315
10	6805	-56.30	6.90	14.25	Horizontal	-51.10	-13.00	38.10	90
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 Horizontal position.									

LTE Band 71 QPSK 5MHz CH-High, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1391	-63.36	2.00	10.15	Horizontal	-57.36	-13.00	44.36	270
3	2086.5	-63.89	2.51	11.05	Horizontal	-57.50	-13.00	44.50	0
4	2782	-60.10	4.20	11.15	Horizontal	-55.30	-13.00	42.30	90
5	3477.5	-60.64	5.20	11.15	Horizontal	-56.84	-13.00	43.84	135
6	4173	-58.00	5.50	11.95	Horizontal	-53.70	-13.00	40.70	90
7	4868.5	-58.07	5.70	13.55	Horizontal	-52.37	-13.00	39.37	135
8	5564	-58.07	6.30	13.75	Horizontal	-52.77	-13.00	39.77	270
9	6259.5	-56.00	6.80	13.85	Horizontal	-51.10	-13.00	38.10	45
10	6955	-53.62	6.90	14.25	Horizontal	-48.42	-13.00	35.42	270
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 Horizontal position.									

LTE Band 71 QPSK 10MHz CH-Low, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1336	-53.56	2.00	10.15	Horizontal	-47.56	-13.00	34.56	90
3	2004	-64.08	2.51	11.35	Horizontal	-57.39	-13.00	44.39	225
4	2672	-58.88	4.20	10.85	Horizontal	-54.38	-13.00	41.38	0
5	3340	-62.40	5.20	11.35	Horizontal	-58.40	-13.00	45.40	45
6	4008	-58.60	5.50	11.95	Horizontal	-54.30	-13.00	41.30	135
7	4676	-59.50	5.70	13.55	Horizontal	-53.80	-13.00	40.80	270
8	5344	-58.90	6.30	13.75	Horizontal	-53.60	-13.00	40.60	45
9	6012	-55.70	6.80	13.85	Horizontal	-50.80	-13.00	37.80	0
10	6680	-54.40	6.90	14.25	Horizontal	-49.20	-13.00	36.20	90
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 Horizontal position.									

LTE Band 71 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1361	-56.90	2.00	10.75	Horizontal	-50.30	-13.00	37.30	45
3	2041.5	-63.79	2.51	11.05	Horizontal	-57.40	-13.00	44.40	315
4	2722	-56.78	4.20	11.15	Horizontal	-51.98	-13.00	38.98	90
5	3402.5	-60.90	5.20	11.15	Horizontal	-57.10	-13.00	44.10	90
6	4083	-59.60	5.50	11.95	Horizontal	-55.30	-13.00	42.30	225
7	4763.5	-59.00	5.70	13.55	Horizontal	-53.30	-13.00	40.30	0
8	5444	-57.80	6.30	13.75	Horizontal	-52.50	-13.00	39.50	315
9	6124.5	-56.00	6.80	13.85	Horizontal	-51.10	-13.00	38.10	90
10	6805	-56.20	6.90	14.25	Horizontal	-51.00	-13.00	38.00	135
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 Horizontal position.									



LTE Band 71 QPSK 10MHz CH-High, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1386	-63.90	2.00	10.15	Horizontal	-57.90	-13.00	44.90	135
3	2079	-63.59	2.51	11.05	Horizontal	-57.20	-13.00	44.20	135
4	2772	-59.67	4.20	11.15	Horizontal	-54.87	-13.00	41.87	270
5	3465	-61.10	5.20	11.15	Horizontal	-57.30	-13.00	44.30	90
6	4158	-59.50	5.50	11.95	Horizontal	-55.20	-13.00	42.20	135
7	4851	-59.30	5.70	13.55	Horizontal	-53.60	-13.00	40.60	135
8	5544	-58.40	6.30	13.75	Horizontal	-53.10	-13.00	40.10	180
9	6237	-55.40	6.80	13.85	Horizontal	-50.50	-13.00	37.50	270
10	6930	-54.10	6.90	14.25	Horizontal	-48.90	-13.00	35.90	135

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 Horizontal position.

LTE Band 71 QPSK 20MHz CH-Low, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1346	-53.50	2.00	10.15	Horizontal	-47.50	-13.00	34.50	45
3	2019	-64.19	2.51	11.35	Horizontal	-57.50	-13.00	44.50	0
4	2692	-58.60	4.20	10.85	Horizontal	-54.10	-13.00	41.10	90
5	3365	-61.70	5.20	11.35	Horizontal	-57.70	-13.00	44.70	45
6	4038	-59.50	5.50	11.95	Horizontal	-55.20	-13.00	42.20	270
7	4711	-59.66	5.70	13.55	Horizontal	-53.96	-13.00	40.96	180
8	5384	-59.07	6.30	13.75	Horizontal	-53.77	-13.00	40.77	270
9	6057	-56.40	6.80	13.85	Horizontal	-51.50	-13.00	38.50	135
10	6730	-54.89	6.90	14.25	Horizontal	-49.69	-13.00	36.69	90

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 Horizontal position.



LTE Band 71 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1366	-59.50	2.00	10.75	Horizontal	-52.90	-13.00	39.90	45
3	2049	-62.79	2.51	11.05	Horizontal	-56.40	-13.00	43.40	225
4	2732	-60.10	4.20	11.15	Horizontal	-55.30	-13.00	42.30	0
5	3415	-61.80	5.20	11.15	Horizontal	-58.00	-13.00	45.00	135
6	4098	-59.30	5.50	11.95	Horizontal	-55.00	-13.00	42.00	180
7	4781	-59.20	5.70	13.55	Horizontal	-53.50	-13.00	40.50	270
8	5464	-57.40	6.30	13.75	Horizontal	-52.10	-13.00	39.10	135
9	6147	-56.10	6.80	13.85	Horizontal	-51.20	-13.00	38.20	45
10	6830	-54.60	6.90	14.25	Horizontal	-49.40	-13.00	36.40	270

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 Horizontal position.

LTE Band 71 QPSK 20MHz CH-High, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1376	-56.30	2.00	10.15	Horizontal	-50.30	-13.00	37.30	90
3	2064	-62.29	2.51	11.05	Horizontal	-55.90	-13.00	42.90	90
4	2752	-58.70	4.20	11.15	Horizontal	-53.90	-13.00	40.90	315
5	3440	-61.20	5.20	11.15	Horizontal	-57.40	-13.00	44.40	180
6	4128	-59.50	5.50	11.95	Horizontal	-55.20	-13.00	42.20	270
7	4816	-59.00	5.70	13.55	Horizontal	-53.30	-13.00	40.30	135
8	5504	-56.60	6.30	13.75	Horizontal	-51.30	-13.00	38.30	180
9	6192	-55.60	6.80	13.85	Horizontal	-50.70	-13.00	37.70	135
10	6880	-54.60	6.90	14.25	Horizontal	-49.40	-13.00	36.40	45

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 Horizontal position.

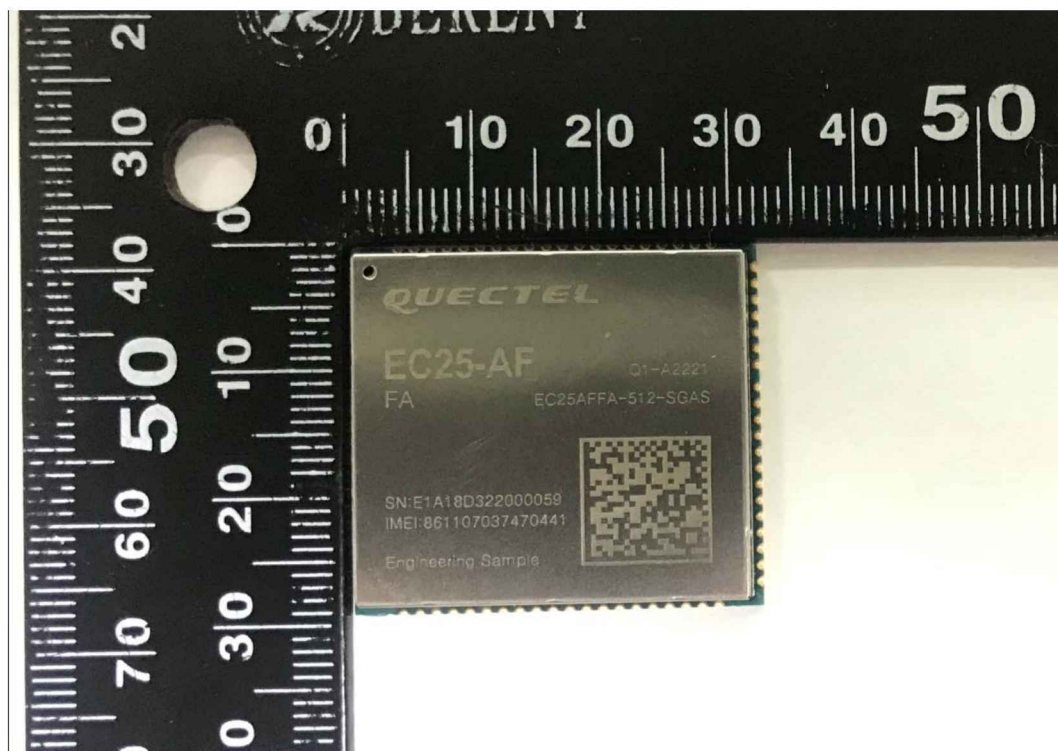
6 Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Base Station Simulator	R&S	CMW500	113645	2018-05-20	2019-05-19
Power Splitter	Hua Xiang	SHX-GF2-2-13	10120101	2018-05-20	2019-05-19
Spectrum Analyzer	Key sight	N9010A	MY50210259	2018-05-20	2019-05-19
Signal Analyzer	R&S	FSV30	100815	2017-12-17	2018-12-16
Signal generator	R&S	SMB 100A	102594	2018-05-20	2019-05-19
EMI Test Receiver	R&S	ESCI	100948	2018-05-20	2019-05-19
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2014-12-06	2019-12-05
Trilog Antenna	SCHWARZBECK	VUBL 9163	9163-201	2017-11-18	2020-11-17
Horn Antenna	R&S	HF907	100126	2014-12-06	2019-12-05
Horn Antenna	ETS-Lindgren	3160-09	00102643	2015-01-30	2020-01-29
Climatic Chamber	ESPEC	SU-242	93000506	2017-12-17	2020-12-16
RF Cable	Agilent	SMA 15cm	0001	NA	NA
Preamplifier	R&S	SCU18	102327	2018-05-20	2019-05-19
MOB COMMS DC SUPPLY	Keysight	66319D	MY43004105	2018-05-20	2019-05-19
Software	R&S	EMC32	V9.26.0	NA	NA

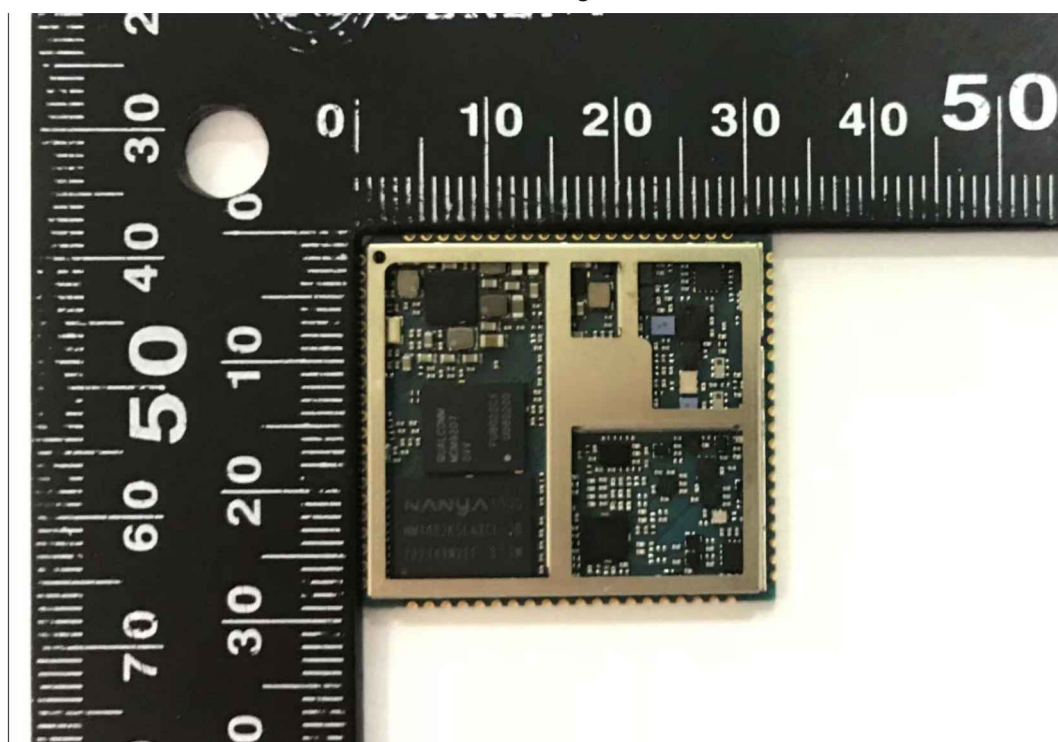
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ANNEX A: EUT Appearance and Test Setup

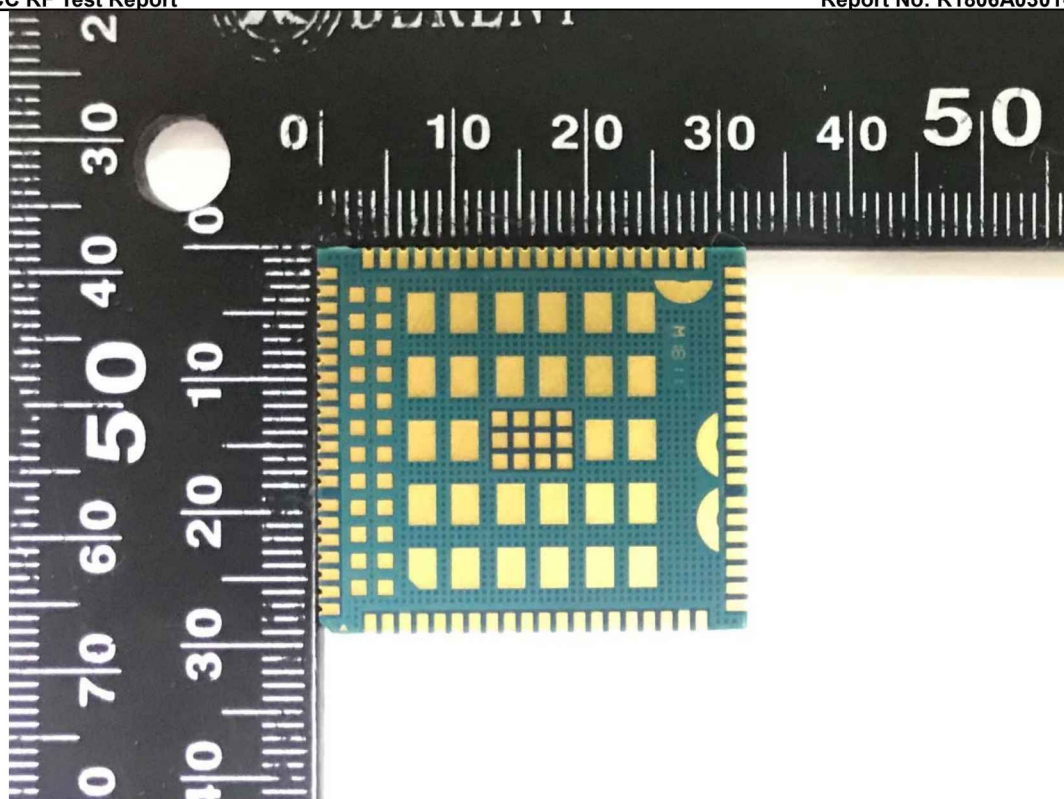
A.1 EUT Appearance



shielding



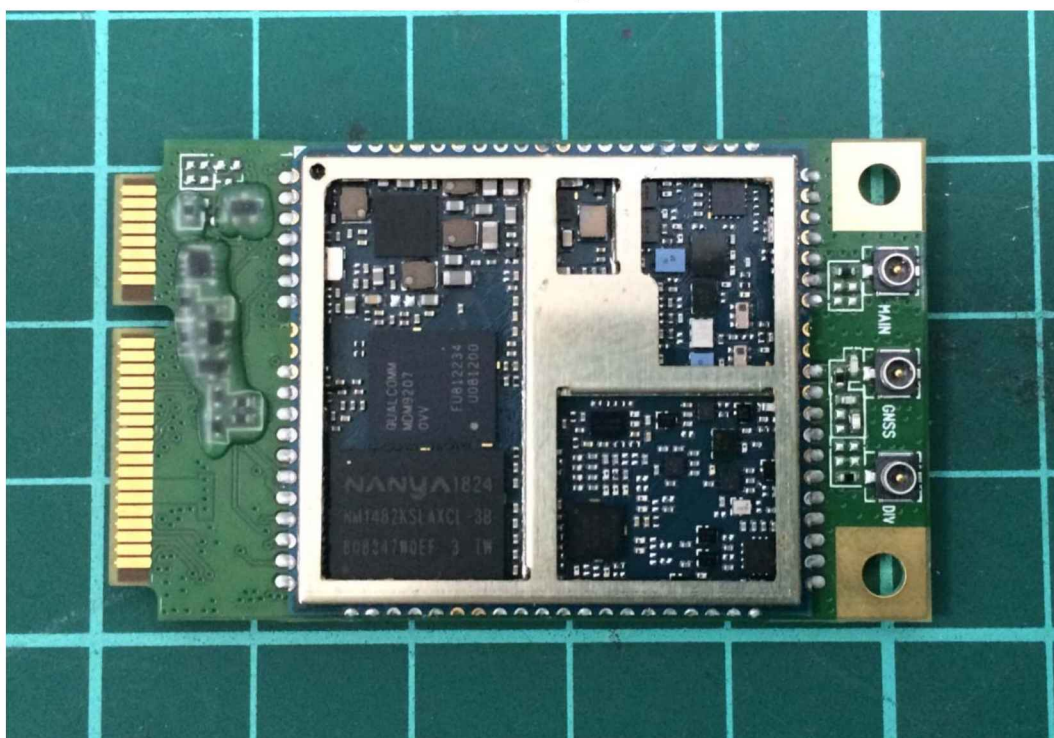
No shielding
Front Side



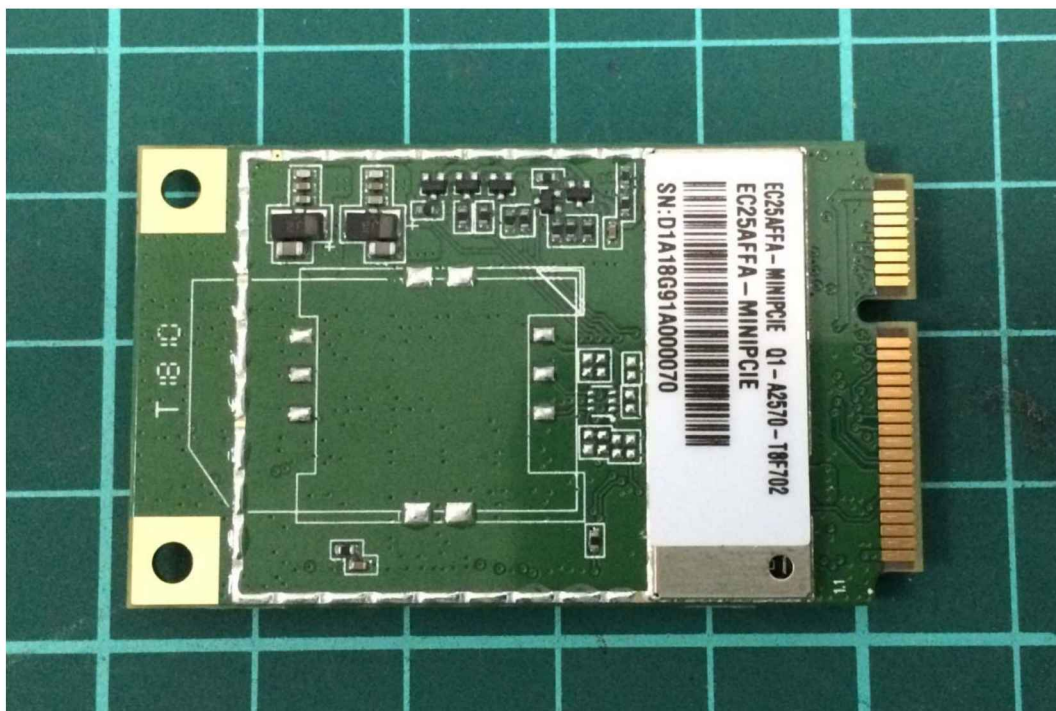
Back Side
EC25-AF



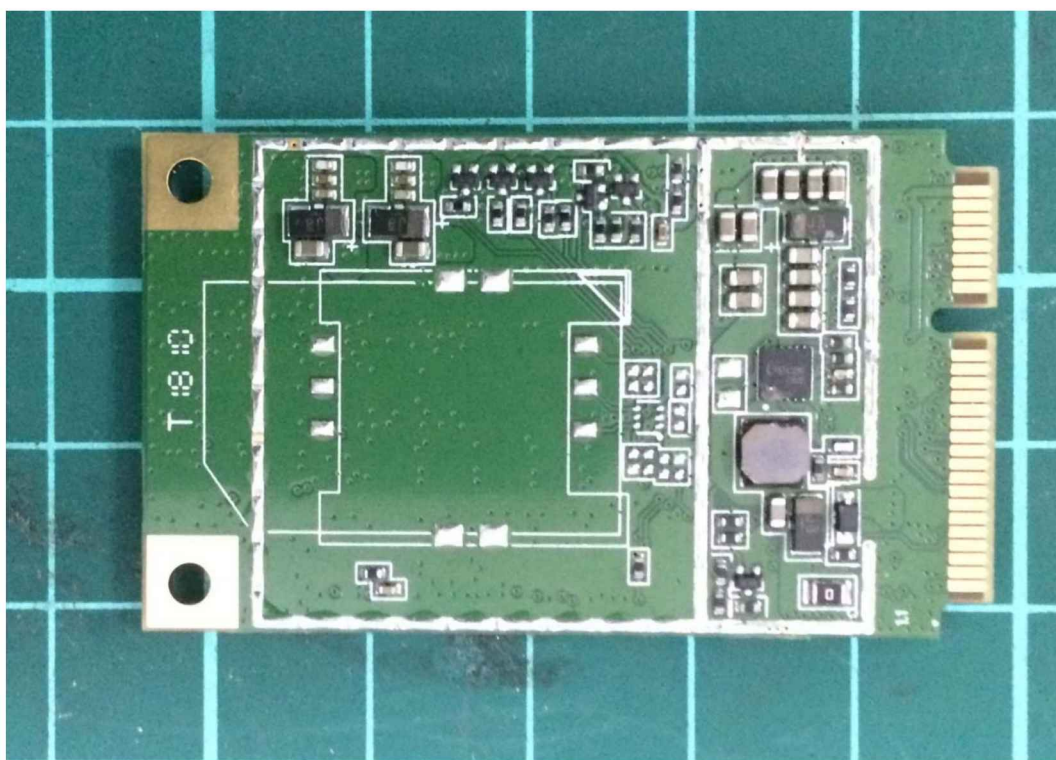
sheilding



No sheilding
Front Side



shielding



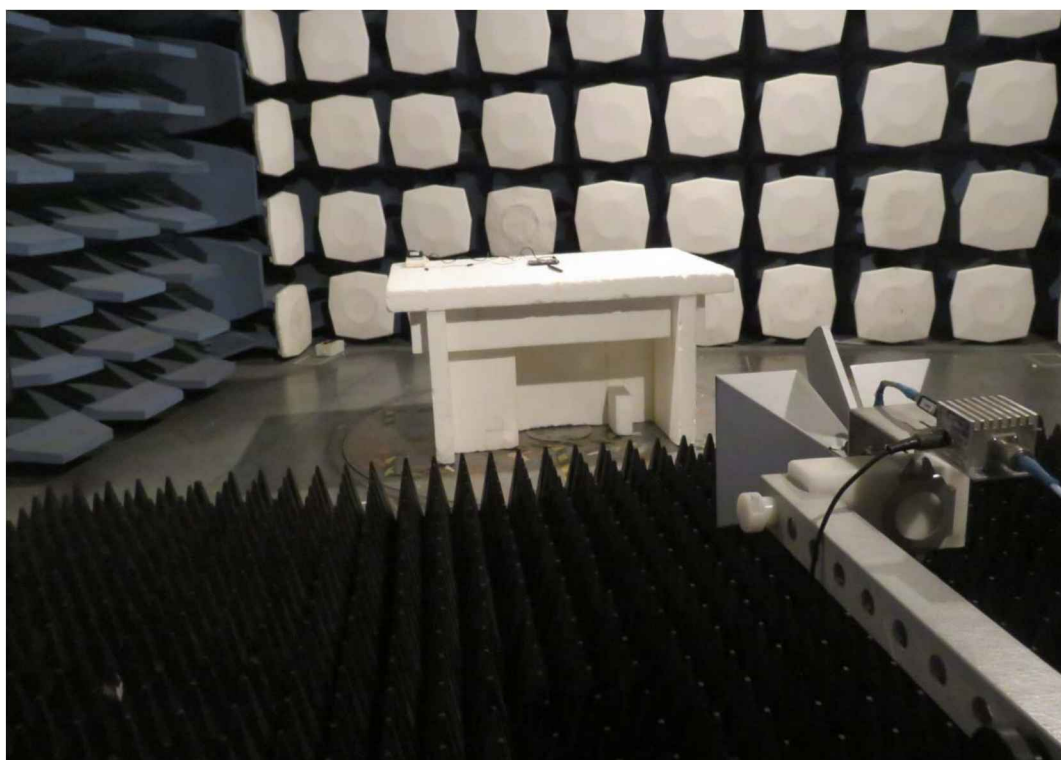
No shielding

Back Side

EC25-AF MINIPCI-E

Picture 1 EUT and Accessory

A.2 Test Setup



Picture 2: Radiated Spurious Emissions Test setup