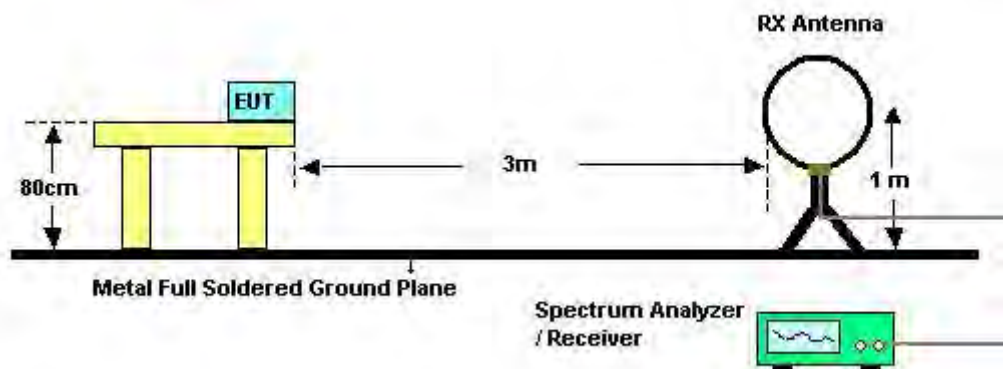


3.7.3 Test Procedures

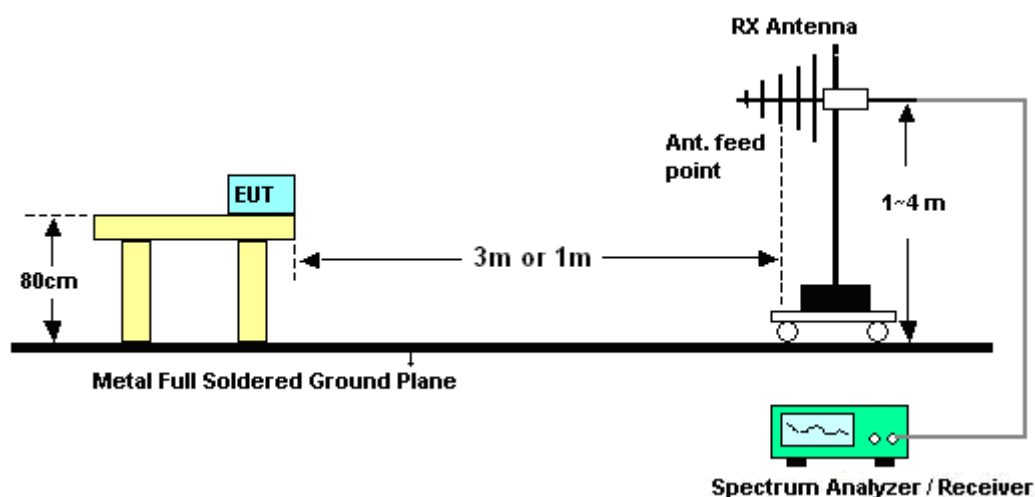
1. The testing follows the guidelines in FCC Public Notice DA 02-2138, (Measurement Guidelines of UNII)
2. The EUT was placed on a rotatable table top 0.8 meter above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest radiation.
5. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
6. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
7. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
8. For testing below 1GHz, If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported.
9. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.7.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz



3.7.5 Test Results of Radiated Emissions (9kHz ~ 30MHz)

Temperature	23~24°C	Humidity	49~50%
Test Engineer	Ivan Jiang		

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

3.7.6 Test Result of Radiated Emission (30MHz ~ 10th harmonic)

Test Mode :	Mode 1	Temperature :	23~24°C
Test Channel :	36	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Horizontal
Remark :	5180 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
115.05	24.35	-19.15	43.50	43.71	11.12	1.08	31.56	-	-	Peak
241.41	31.09	-14.91	46.00	48.93	12.05	1.53	31.42	-	-	Peak
296.49	31.88	-14.12	46.00	48.05	13.41	1.75	31.33	-	-	Peak
354.60	32.08	-13.92	46.00	46.16	15.18	2.02	31.28	102	87	Peak
399.40	30.76	-15.24	46.00	43.24	16.56	2.14	31.18	-	-	Peak
841.80	29.59	-16.41	46.00	34.11	22.95	3.25	30.72	-	-	Peak
5150.00	40.10	-13.90	54.00	31.09	34.25	9.41	34.65	112	271	Average
5150.00	55.14	-18.86	74.00	46.13	34.25	9.41	34.65	112	271	Peak
5180.00	104.72	-	-	95.76	34.28	9.45	34.77	112	271	Peak
5180.00	94.58	-	-	85.62	34.28	9.45	34.77	112	271	Average
5350.00	37.69	-16.31	54.00	28.90	34.45	9.74	35.40	112	271	Average
5350.00	49.21	-24.79	74.00	40.42	34.45	9.74	35.40	112	271	Peak



Test Mode :	Mode 1	Temperature :	23~24°C
Test Channel :	36	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Vertical
Remark :	5180 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
32.70	31.96	-8.04	40.00	47.07	15.80	0.56	31.47	110	166	Peak
137.73	28.48	-15.02	43.50	47.25	11.59	1.19	31.55	-	-	Peak
241.41	27.89	-18.11	46.00	45.73	12.05	1.53	31.42	-	-	Peak
330.10	27.92	-18.08	46.00	42.99	14.39	1.85	31.31	-	-	Peak
635.30	26.47	-19.53	46.00	34.39	20.16	2.80	30.88	-	-	Peak
912.50	29.08	-16.92	46.00	32.59	23.79	3.37	30.67	-	-	Peak
5150.00	42.51	-11.49	54.00	33.50	34.25	9.41	34.65	135	352	Average
5150.00	62.53	-11.47	74.00	53.52	34.25	9.41	34.65	135	352	Peak
5180.00	108.29	-	-	99.33	34.28	9.45	34.77	135	352	Peak
5180.00	97.28	-	-	88.32	34.28	9.45	34.77	135	352	Average
5350.00	37.37	-16.63	54.00	28.58	34.45	9.74	35.40	135	352	Average
5350.00	50.40	-23.60	74.00	41.61	34.45	9.74	35.40	135	352	Peak



Test Mode :	Mode 2	Temperature :	23~24°C
Test Channel :	44	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Horizontal
Remark :	5220 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
115.86	25.16	-18.34	43.50	44.44	11.20	1.08	31.56	-	-	Peak
240.06	31.16	-14.84	46.00	49.07	11.98	1.53	31.42	-	-	Peak
292.98	31.03	-14.97	46.00	47.29	13.35	1.71	31.32	-	-	Peak
330.10	34.87	-11.13	46.00	49.94	14.39	1.85	31.31	100	114	Peak
380.50	29.67	-16.33	46.00	42.85	15.96	2.10	31.24	-	-	Peak
920.20	29.81	-16.19	46.00	33.18	23.89	3.39	30.65	-	-	Peak
5150.00	49.50	-24.50	74.00	40.49	34.25	9.41	34.65	100	268	Peak
5150.00	37.80	-16.20	54.00	28.79	34.25	9.41	34.65	100	268	Average
5220.00	105.50	-	-	96.55	34.32	9.53	34.90	100	268	Peak
5220.00	94.92	-	-	85.97	34.32	9.53	34.90	100	268	Average
5350.00	50.32	-23.68	74.00	41.53	34.45	9.74	35.40	100	268	Peak
5350.00	37.98	-16.02	54.00	29.19	34.45	9.74	35.40	100	268	Average



Test Mode :	Mode 2	Temperature :	23~24°C
Test Channel :	44	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Vertical
Remark :	5220 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
32.70	32.28	-7.72	40.00	47.39	15.80	0.56	31.47	109	216	Peak
72.93	26.59	-13.41	40.00	50.75	6.54	0.85	31.55	-	-	Peak
138.54	28.38	-15.12	43.50	47.13	11.60	1.20	31.55	-	-	Peak
332.20	27.89	-18.11	46.00	42.86	14.48	1.86	31.31	-	-	Peak
438.60	27.05	-18.95	46.00	38.70	17.20	2.27	31.12	-	-	Peak
995.80	29.21	-24.79	54.00	31.44	24.84	3.51	30.58	-	-	Peak
5150.00	50.11	-23.89	74.00	41.10	34.25	9.41	34.65	101	347	Peak
5150.00	38.34	-15.66	54.00	29.33	34.25	9.41	34.65	101	347	Average
5220.00	109.66	-	-	100.71	34.32	9.53	34.90	101	347	Peak
5220.00	99.05	-	-	90.10	34.32	9.53	34.90	101	347	Average
5350.00	49.92	-24.08	74.00	41.13	34.45	9.74	35.40	101	347	Peak
5350.00	37.62	-16.38	54.00	28.83	34.45	9.74	35.40	101	347	Average

Test Mode :	Mode 3	Temperature :	23~24°C
Test Channel :	48	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Horizontal
Remark :	5240 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
217.38	28.46	-17.54	46.00	48.18	10.34	1.40	31.46	-	-	Peak
242.22	29.91	-16.09	46.00	47.68	12.12	1.53	31.42	-	-	Peak
289.74	31.12	-14.88	46.00	47.44	13.31	1.69	31.32	-	-	Peak
330.10	34.93	-11.07	46.00	50.00	14.39	1.85	31.31	100	102	Peak
380.50	29.65	-16.35	46.00	42.83	15.96	2.10	31.24	-	-	Peak
998.60	31.04	-22.96	54.00	33.23	24.88	3.51	30.58	-	-	Peak
5150.00	49.49	-24.51	74.00	40.48	34.25	9.41	34.65	100	269	Peak
5150.00	37.78	-16.22	54.00	28.77	34.25	9.41	34.65	100	269	Average
5240.00	104.97	-	-	96.03	34.33	9.57	34.96	100	269	Peak
5240.00	94.88	-	-	85.94	34.33	9.57	34.96	100	269	Average
5350.00	50.61	-23.39	74.00	41.82	34.45	9.74	35.40	100	269	Peak
5350.00	38.07	-15.93	54.00	29.28	34.45	9.74	35.40	100	269	Average



Test Mode :	Mode 3	Temperature :	23~24°C
Test Channel :	48	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Vertical
Remark :	5240 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
32.70	32.35	-7.65	40.00	47.46	15.80	0.56	31.47	116	251	Peak
137.73	28.53	-14.97	43.50	47.30	11.59	1.19	31.55	-	-	Peak
242.22	28.73	-17.27	46.00	46.50	12.12	1.53	31.42	-	-	Peak
399.40	28.83	-17.17	46.00	41.31	16.56	2.14	31.18	-	-	Peak
802.60	28.67	-17.33	46.00	33.71	22.49	3.15	30.68	-	-	Peak
934.20	29.12	-16.88	46.00	32.25	24.06	3.42	30.61	-	-	Peak
5150.00	49.86	-24.14	74.00	40.85	34.25	9.41	34.65	101	23	Peak
5150.00	38.04	-15.96	54.00	29.03	34.25	9.41	34.65	101	23	Average
5240.00	107.85	-	-	98.91	34.33	9.57	34.96	101	23	Peak
5240.00	97.78	-	-	88.84	34.33	9.57	34.96	101	23	Average
5350.00	51.96	-22.04	74.00	43.17	34.45	9.74	35.40	101	23	Peak
5350.00	37.83	-16.17	54.00	29.04	34.45	9.74	35.40	101	23	Average



Test Mode :	Mode 4	Temperature :	23~24°C
Test Channel :	52	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Horizontal
Remark :	5260 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
115.05	24.94	-18.56	43.50	44.30	11.12	1.08	31.56	-	-	Peak
214.14	28.61	-14.89	43.50	48.57	10.13	1.38	31.47	-	-	Peak
299.46	32.11	-13.89	46.00	48.21	13.46	1.77	31.33	-	-	Peak
330.10	35.80	-10.20	46.00	50.87	14.39	1.85	31.31	100	177	Peak
402.90	31.80	-14.20	46.00	44.22	16.61	2.15	31.18	-	-	Peak
895.00	31.35	-14.65	46.00	35.15	23.57	3.33	30.70	-	-	Peak
5150.00	50.74	-23.26	74.00	41.73	34.25	9.41	34.65	100	270	Peak
5150.00	37.92	-16.08	54.00	28.91	34.25	9.41	34.65	100	270	Average
5260.00	106.83	-	-	97.93	34.37	9.62	35.09	100	270	Peak
5260.00	95.62	-	-	86.72	34.37	9.62	35.09	100	270	Average
5350.00	50.48	-23.52	74.00	41.69	34.45	9.74	35.40	100	270	Peak
5350.00	38.10	-15.90	54.00	29.31	34.45	9.74	35.40	100	270	Average



Test Mode :	Mode 4	Temperature :	23~24°C
Test Channel :	52	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Vertical
Remark :	5260 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
32.70	32.68	-7.32	40.00	47.79	15.80	0.56	31.47	141	100	Peak
65.37	26.60	-13.40	40.00	51.36	5.98	0.80	31.54	-	-	Peak
138.54	27.70	-15.80	43.50	46.45	11.60	1.20	31.55	-	-	Peak
307.00	27.41	-18.59	46.00	43.25	13.70	1.79	31.33	-	-	Peak
926.50	30.60	-15.40	46.00	33.87	23.96	3.40	30.63	-	-	Peak
995.80	30.83	-23.17	54.00	33.06	24.84	3.51	30.58	-	-	Peak
5150.00	49.78	-24.22	74.00	40.77	34.25	9.41	34.65	123	23	Peak
5150.00	37.85	-16.15	54.00	28.84	34.25	9.41	34.65	123	23	Average
5260.00	108.34	-	-	99.44	34.37	9.62	35.09	123	23	Peak
5260.00	97.75	-	-	88.85	34.37	9.62	35.09	123	23	Average
5350.00	50.02	-23.98	74.00	41.23	34.45	9.74	35.40	123	23	Peak
5350.00	38.16	-15.84	54.00	29.37	34.45	9.74	35.40	123	23	Average

Test Mode :	Mode 5	Temperature :	23~24°C
Test Channel :	60	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Horizontal
Remark :	5300 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
48.90	26.16	-13.84	40.00	47.93	9.08	0.68	31.53	-	-	Peak
115.86	25.06	-18.44	43.50	44.34	11.20	1.08	31.56	-	-	Peak
220.89	31.34	-14.66	46.00	50.76	10.61	1.43	31.46	-	-	Peak
335.00	35.79	-10.21	46.00	50.69	14.54	1.87	31.31	100	55	Peak
383.30	29.62	-16.38	46.00	42.69	16.05	2.11	31.23	-	-	Peak
811.70	29.71	-16.29	46.00	34.62	22.61	3.17	30.69	-	-	Peak
5150.00	49.94	-24.06	74.00	40.93	34.25	9.41	34.65	102	265	Peak
5150.00	37.82	-16.18	54.00	28.81	34.25	9.41	34.65	102	265	Average
5300.00	104.11	-	-	95.26	34.40	9.66	35.21	102	265	Peak
5300.00	93.85	-	-	85.00	34.40	9.66	35.21	102	265	Average
5350.00	50.18	-23.82	74.00	41.39	34.45	9.74	35.40	102	265	Peak
5350.00	38.74	-15.26	54.00	29.95	34.45	9.74	35.40	102	265	Average



Test Mode :	Mode 5	Temperature :	23~24°C
Test Channel :	60	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Vertical
Remark :	5300 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
31.89	31.97	-8.03	40.00	46.84	16.04	0.55	31.46	115	241	Peak
73.74	26.68	-13.32	40.00	50.74	6.63	0.85	31.54	-	-	Peak
138.81	28.34	-15.16	43.50	47.09	11.60	1.20	31.55	-	-	Peak
397.30	26.57	-19.43	46.00	39.12	16.50	2.14	31.19	-	-	Peak
696.90	30.07	-15.93	46.00	37.10	20.86	2.93	30.82	-	-	Peak
898.50	29.05	-16.95	46.00	32.80	23.61	3.34	30.70	-	-	Peak
5150.00	49.60	-24.40	74.00	40.59	34.25	9.41	34.65	123	24	Peak
5150.00	37.81	-16.19	54.00	28.80	34.25	9.41	34.65	123	24	Average
5300.00	108.09	-	-	99.24	34.40	9.66	35.21	123	24	Peak
5300.00	97.76	-	-	88.91	34.40	9.66	35.21	123	24	Average
5350.00	51.11	-22.89	74.00	42.32	34.45	9.74	35.40	123	24	Peak
5350.00	38.58	-15.42	54.00	29.79	34.45	9.74	35.40	123	24	Average



Test Mode :	Mode 6	Temperature :	23~24°C
Test Channel :	64	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Horizontal
Remark :	5320 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
115.05	24.06	-19.44	43.50	43.42	11.12	1.08	31.56	-	-	Peak
242.22	29.38	-16.62	46.00	47.15	12.12	1.53	31.42	-	-	Peak
299.46	31.58	-14.42	46.00	47.68	13.46	1.77	31.33	-	-	Peak
340.60	34.41	-11.59	46.00	49.10	14.72	1.89	31.30	100	291	Peak
397.30	33.50	-12.50	46.00	46.05	16.50	2.14	31.19	-	-	Peak
780.20	26.80	-19.20	46.00	32.23	22.15	3.11	30.69	-	-	Peak
5150.00	37.63	-16.37	54.00	28.62	34.25	9.41	34.65	100	264	Average
5150.00	49.27	-24.73	74.00	40.26	34.25	9.41	34.65	100	264	Peak
5320.00	93.12	-	-	84.28	34.42	9.70	35.28	100	264	Average
5320.00	103.58	-	-	94.74	34.42	9.70	35.28	100	264	Peak
5350.00	41.74	-12.26	54.00	32.95	34.45	9.74	35.40	100	264	Average
5350.00	58.23	-15.77	74.00	49.44	34.45	9.74	35.40	100	264	Peak



Test Mode :	Mode 6	Temperature :	23~24°C
Test Channel :	64	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Vertical
Remark :	5320 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30.81	32.21	-7.79	40.00	46.86	16.27	0.54	31.46	104	156	Peak
138.54	27.73	-15.77	43.50	46.48	11.60	1.20	31.55	-	-	Peak
290.01	27.45	-18.55	46.00	43.77	13.31	1.69	31.32	-	-	Peak
312.60	26.56	-19.44	46.00	42.24	13.85	1.79	31.32	-	-	Peak
400.10	25.25	-20.75	46.00	37.71	16.58	2.14	31.18	-	-	Peak
948.20	29.22	-16.78	46.00	32.09	24.24	3.46	30.57	-	-	Peak
5150.00	37.76	-16.24	54.00	28.75	34.25	9.41	34.65	100	24	Average
5150.00	48.96	-25.04	74.00	39.95	34.25	9.41	34.65	100	24	Peak
5320.00	96.92	-	-	88.08	34.42	9.70	35.28	100	24	Average
5320.00	107.30	-	-	98.46	34.42	9.70	35.28	100	24	Peak
5350.00	41.30	-12.70	54.00	32.51	34.45	9.74	35.40	100	24	Average
5350.00	56.57	-17.43	74.00	47.78	34.45	9.74	35.40	100	24	Peak



Test Mode :	Mode 7	Temperature :	23~24°C
Test Channel :	100	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Horizontal
Remark :	5500 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
182.82	27.51	-15.99	43.50	48.72	9.05	1.26	31.52	-	-	Peak
240.33	29.62	-16.38	46.00	47.53	11.98	1.53	31.42	-	-	Peak
297.30	31.61	-14.39	46.00	47.76	13.43	1.75	31.33	-	-	Peak
341.30	36.48	-9.52	46.00	51.13	14.75	1.90	31.30	100	117	Peak
393.80	31.28	-14.72	46.00	43.97	16.38	2.13	31.20	-	-	Peak
996.50	29.37	-24.63	54.00	31.60	24.84	3.51	30.58	-	-	Peak
5470.00	39.07	-29.23	68.30	30.40	34.57	9.94	35.84	100	255	Average
5470.00	51.96	-36.34	88.30	43.29	34.57	9.94	35.84	100	255	Peak
5500.00	100.82	-	-	92.17	34.60	10.02	35.97	100	255	Peak
5500.00	90.15	-	-	81.50	34.60	10.02	35.97	100	255	Average
5725.00	49.70	-38.60	88.30	40.80	34.82	9.92	35.84	100	255	Peak
5725.00	37.59	-30.71	68.30	28.69	34.82	9.92	35.84	100	255	Average



Test Mode :	Mode 7	Temperature :	23~24°C
Test Channel :	100	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Vertical
Remark :	5500 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
32.97	32.57	-7.43	40.00	47.68	15.80	0.56	31.47	121	106	Peak
137.73	27.61	-15.89	43.50	46.38	11.59	1.19	31.55	-	-	Peak
243.30	26.41	-19.59	46.00	44.11	12.19	1.53	31.42	-	-	Peak
397.30	25.15	-20.85	46.00	37.70	16.50	2.14	31.19	-	-	Peak
814.50	28.19	-17.81	46.00	33.06	22.64	3.18	30.69	-	-	Peak
956.60	28.72	-17.28	46.00	31.48	24.34	3.47	30.57	-	-	Peak
5470.00	40.63	-27.67	68.30	31.96	34.57	9.94	35.84	100	48	Average
5470.00	54.48	-33.82	88.30	45.81	34.57	9.94	35.84	100	48	Peak
5500.00	103.23	-	-	94.58	34.60	10.02	35.97	100	48	Peak
5500.00	92.95	-	-	84.30	34.60	10.02	35.97	100	48	Average
5725.00	37.50	-30.80	68.30	28.60	34.82	9.92	35.84	100	48	Average
5725.00	48.99	-39.31	88.30	40.09	34.82	9.92	35.84	100	48	Peak



Test Mode :	Mode 8	Temperature :	23~24°C
Test Channel :	116	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Horizontal
Remark :	5580 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
116.13	26.39	-17.11	43.50	45.67	11.20	1.08	31.56	-	-	Peak
242.49	29.45	-16.55	46.00	47.22	12.12	1.53	31.42	-	-	Peak
297.57	32.59	-13.41	46.00	48.74	13.43	1.75	31.33	-	-	Peak
332.20	34.68	-11.32	46.00	49.65	14.48	1.86	31.31	103	120	Peak
397.30	31.89	-14.11	46.00	44.44	16.50	2.14	31.19	-	-	Peak
937.00	31.72	-14.28	46.00	34.80	24.09	3.43	30.60	-	-	Peak
5470.00	51.82	-36.48	88.30	40.32	34.57	9.94	33.01	183	82	Peak
5470.00	39.71	-28.59	68.30	28.21	34.57	9.94	33.01	183	82	Average
5580.00	94.93	-	-	83.27	34.67	9.99	33.00	183	82	Average
5580.00	105.31	-	-	93.65	34.67	9.99	33.00	183	82	Peak
5725.00	51.89	-36.41	88.30	40.33	34.82	9.92	33.18	183	82	Peak
5725.00	40.11	-28.19	68.30	28.55	34.82	9.92	33.18	183	82	Average



Test Mode :	Mode 8	Temperature :	23~24°C
Test Channel :	116	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Vertical
Remark :	5580 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30.81	31.84	-8.16	40.00	46.49	16.27	0.54	31.46	100	218	Peak
73.74	27.01	-12.99	40.00	51.07	6.63	0.85	31.54	-	-	Peak
138.54	29.21	-14.29	43.50	47.96	11.60	1.20	31.55	-	-	Peak
397.30	29.39	-16.61	46.00	41.94	16.50	2.14	31.19	-	-	Peak
757.80	25.01	-20.99	46.00	30.84	21.80	3.07	30.70	-	-	Peak
925.80	29.15	-16.85	46.00	32.42	23.96	3.40	30.63	-	-	Peak
5470.00	51.19	-37.11	88.30	39.69	34.57	9.94	33.01	101	353	Peak
5470.00	39.71	-28.59	68.30	28.21	34.57	9.94	33.01	101	353	Average
5580.00	106.80	-	-	95.14	34.67	9.99	33.00	101	353	Peak
5580.00	96.09	-	-	84.43	34.67	9.99	33.00	101	353	Average
5725.00	52.25	-36.05	88.30	40.69	34.82	9.92	33.18	101	353	Peak
5725.00	40.17	-28.13	68.30	28.61	34.82	9.92	33.18	101	353	Average



Test Mode :	Mode 9	Temperature :	23~24°C
Test Channel :	140	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Horizontal
Remark :	5700 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
115.86	23.78	-19.72	43.50	43.06	11.20	1.08	31.56	-	-	Peak
241.14	30.21	-15.79	46.00	48.05	12.05	1.53	31.42	-	-	Peak
294.33	31.81	-14.19	46.00	48.03	13.38	1.73	31.33	-	-	Peak
332.20	34.85	-11.15	46.00	49.82	14.48	1.86	31.31	100	46	Peak
383.30	32.61	-13.39	46.00	45.68	16.05	2.11	31.23	-	-	Peak
995.80	31.53	-22.47	54.00	33.76	24.84	3.51	30.58	-	-	Peak
5470.00	37.39	-30.91	68.30	28.72	34.57	9.94	35.84	100	273	Average
5470.00	48.87	-39.43	88.30	40.20	34.57	9.94	35.84	100	273	Peak
5700.00	93.74	-	-	84.88	34.79	9.93	35.86	100	273	Average
5700.00	104.88	-	-	96.02	34.79	9.93	35.86	100	273	Peak
5725.00	43.79	-24.51	68.30	34.89	34.82	9.92	35.84	100	273	Average
5725.00	60.83	-27.47	88.30	51.93	34.82	9.92	35.84	100	273	Peak



Test Mode :	Mode 9	Temperature :	23~24°C
Test Channel :	140	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Vertical
Remark :	5700 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
31.89	32.09	-7.91	40.00	46.96	16.04	0.55	31.46	108	187	Peak
138.54	27.60	-15.90	43.50	46.35	11.60	1.20	31.55	-	-	Peak
228.45	27.66	-18.34	46.00	46.47	11.16	1.47	31.44	-	-	Peak
332.90	26.72	-19.28	46.00	41.69	14.48	1.86	31.31	-	-	Peak
436.50	29.10	-16.90	46.00	40.79	17.17	2.27	31.13	-	-	Peak
699.00	26.11	-19.89	46.00	33.11	20.88	2.94	30.82	-	-	Peak
5470.00	37.52	-30.78	68.30	28.85	34.57	9.94	35.84	111	5	Average
5470.00	48.51	-39.79	88.30	39.84	34.57	9.94	35.84	111	5	Peak
5700.00	97.77	-	-	88.91	34.79	9.93	35.86	111	5	Average
5700.00	108.21	-	-	99.35	34.79	9.93	35.86	111	5	Peak
5725.00	47.37	-20.93	68.30	38.47	34.82	9.92	35.84	111	5	Average
5725.00	62.31	-25.99	88.30	53.41	34.82	9.92	35.84	111	5	Peak



Test Mode :	Mode 10	Temperature :	23~24°C
Test Channel :	36	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Horizontal
Remark :	5180 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
48.90	28.18	-11.82	40.00	49.95	9.08	0.68	31.53	-	-	Peak
242.22	29.60	-16.40	46.00	47.37	12.12	1.53	31.42	-	-	Peak
295.41	33.05	-12.95	46.00	49.24	13.40	1.74	31.33	-	-	Peak
332.20	34.22	-11.78	46.00	49.19	14.48	1.86	31.31	100	201	Peak
393.80	28.39	-17.61	46.00	41.08	16.38	2.13	31.20	-	-	Peak
934.20	29.30	-16.70	46.00	32.43	24.06	3.42	30.61	-	-	Peak
5150.00	40.83	-13.17	54.00	31.82	34.25	9.41	34.65	100	271	Average
5150.00	55.98	-18.02	74.00	46.97	34.25	9.41	34.65	100	271	Peak
5180.00	105.48	-	-	96.52	34.28	9.45	34.77	100	271	Peak
5180.00	94.99	-	-	86.03	34.28	9.45	34.77	100	271	Average
5350.00	37.86	-16.14	54.00	29.07	34.45	9.74	35.40	100	271	Average
5350.00	49.50	-24.50	74.00	40.71	34.45	9.74	35.40	100	271	Peak



Test Mode :	Mode 10	Temperature :	23~24°C
Test Channel :	36	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Vertical
Remark :	5180 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
32.70	32.48	-7.52	40.00	47.59	15.80	0.56	31.47	116	280	Peak
140.70	28.60	-14.90	43.50	47.40	11.55	1.20	31.55	-	-	Peak
287.85	28.77	-17.23	46.00	45.15	13.27	1.68	31.33	-	-	Peak
330.10	26.23	-19.77	46.00	41.30	14.39	1.85	31.31	-	-	Peak
405.70	25.96	-20.04	46.00	38.31	16.66	2.16	31.17	-	-	Peak
995.80	32.28	-21.72	54.00	34.51	24.84	3.51	30.58	-	-	Peak
5150.00	42.08	-11.92	54.00	33.07	34.25	9.41	34.65	123	1	Average
5150.00	57.59	-16.41	74.00	48.58	34.25	9.41	34.65	123	1	Peak
5180.00	108.96	-	-	100.00	34.28	9.45	34.77	123	1	Peak
5180.00	98.11	-	-	89.15	34.28	9.45	34.77	123	1	Average
5350.00	37.51	-16.49	54.00	28.72	34.45	9.74	35.40	123	1	Average
5350.00	49.96	-24.04	74.00	41.17	34.45	9.74	35.40	123	1	Peak

Test Mode :	Mode 11	Temperature :	23~24°C
Test Channel :	44	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Horizontal
Remark :	5220 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
115.05	24.59	-18.91	43.50	43.95	11.12	1.08	31.56	-	-	Peak
235.74	29.42	-16.58	46.00	47.70	11.64	1.51	31.43	-	-	Peak
295.14	31.80	-14.20	46.00	48.02	13.38	1.73	31.33	-	-	Peak
341.30	35.23	-10.77	46.00	49.88	14.75	1.90	31.30	100	192	Peak
383.30	32.92	-13.08	46.00	45.99	16.05	2.11	31.23	-	-	Peak
996.50	30.33	-23.67	54.00	32.56	24.84	3.51	30.58	-	-	Peak
5150.00	49.73	-24.27	74.00	40.72	34.25	9.41	34.65	100	268	Peak
5150.00	37.91	-16.09	54.00	28.90	34.25	9.41	34.65	100	268	Average
5220.00	105.47	-	-	96.52	34.32	9.53	34.90	100	268	Peak
5220.00	95.19	-	-	86.24	34.32	9.53	34.90	100	268	Average
5350.00	50.79	-23.21	74.00	42.00	34.45	9.74	35.40	100	268	Peak
5350.00	38.08	-15.92	54.00	29.29	34.45	9.74	35.40	100	268	Average



Test Mode :	Mode 11	Temperature :	23~24°C
Test Channel :	44	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Vertical
Remark :	5220 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
31.62	32.40	-7.60	40.00	47.27	16.04	0.55	31.46	144	273	Peak
139.89	27.99	-15.51	43.50	46.74	11.60	1.20	31.55	-	-	Peak
291.90	27.69	-18.31	46.00	43.96	13.34	1.71	31.32	-	-	Peak
400.10	25.95	-20.05	46.00	38.41	16.58	2.14	31.18	-	-	Peak
598.20	28.29	-17.71	46.00	36.79	19.74	2.68	30.92	-	-	Peak
911.80	30.26	-15.74	46.00	33.78	23.78	3.37	30.67	-	-	Peak
5150.00	50.29	-23.71	74.00	41.28	34.25	9.41	34.65	102	30	Peak
5150.00	38.72	-15.28	54.00	29.71	34.25	9.41	34.65	102	30	Average
5220.00	110.18	-	-	101.23	34.32	9.53	34.90	102	30	Peak
5220.00	98.58	-	-	89.63	34.32	9.53	34.90	102	30	Average
5350.00	49.46	-24.54	74.00	40.67	34.45	9.74	35.40	102	30	Peak
5350.00	37.81	-16.19	54.00	29.02	34.45	9.74	35.40	102	30	Average



Test Mode :	Mode 12	Temperature :	23~24°C
Test Channel :	48	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Horizontal
Remark :	5240 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
48.90	26.36	-13.64	40.00	48.13	9.08	0.68	31.53	-	-	Peak
241.41	29.60	-16.40	46.00	47.44	12.05	1.53	31.42	-	-	Peak
297.30	31.10	-14.90	46.00	47.25	13.43	1.75	31.33	-	-	Peak
337.80	35.71	-10.29	46.00	50.50	14.63	1.88	31.30	100	133	Peak
864.90	31.02	-14.98	46.00	35.23	23.22	3.29	30.72	-	-	Peak
920.90	29.55	-16.45	46.00	32.92	23.89	3.39	30.65	-	-	Peak
5150.00	49.48	-24.52	74.00	40.47	34.25	9.41	34.65	100	269	Peak
5150.00	37.93	-16.07	54.00	28.92	34.25	9.41	34.65	100	269	Average
5240.00	105.70	-	-	96.76	34.33	9.57	34.96	100	269	Peak
5240.00	95.26	-	-	86.32	34.33	9.57	34.96	100	269	Average
5350.00	50.30	-23.70	74.00	41.51	34.45	9.74	35.40	100	269	Peak
5350.00	38.30	-15.70	54.00	29.51	34.45	9.74	35.40	100	269	Average



Test Mode :	Mode 12	Temperature :	23~24°C
Test Channel :	48	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Vertical
Remark :	5240 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
32.70	32.20	-7.80	40.00	47.31	15.80	0.56	31.47	123	257	Peak
138.81	27.79	-15.71	43.50	46.54	11.60	1.20	31.55	-	-	Peak
242.49	27.59	-18.41	46.00	45.36	12.12	1.53	31.42	-	-	Peak
332.90	28.41	-17.59	46.00	43.38	14.48	1.86	31.31	-	-	Peak
699.00	26.18	-19.82	46.00	33.18	20.88	2.94	30.82	-	-	Peak
909.70	31.67	-14.33	46.00	35.23	23.75	3.36	30.67	-	-	Peak
5150.00	51.60	-22.40	74.00	42.59	34.25	9.41	34.65	135	4	Peak
5150.00	38.49	-15.51	54.00	29.48	34.25	9.41	34.65	135	4	Average
5240.00	108.69	-	-	99.75	34.33	9.57	34.96	135	4	Peak
5240.00	98.39	-	-	89.45	34.33	9.57	34.96	135	4	Average
5350.00	49.08	-24.92	74.00	40.29	34.45	9.74	35.40	135	4	Peak
5350.00	37.65	-16.35	54.00	28.86	34.45	9.74	35.40	135	4	Average



Test Mode :	Mode 13	Temperature :	23~24°C
Test Channel :	52	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Horizontal
Remark :	5260 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
114.78	26.17	-17.33	43.50	45.62	11.03	1.07	31.55	-	-	Peak
241.41	29.65	-16.35	46.00	47.49	12.05	1.53	31.42	-	-	Peak
296.22	30.86	-15.14	46.00	47.05	13.40	1.74	31.33	-	-	Peak
330.10	34.45	-11.55	46.00	49.52	14.39	1.85	31.31	100	146	Peak
371.40	30.27	-15.73	46.00	43.75	15.69	2.08	31.25	-	-	Peak
892.20	30.79	-15.21	46.00	34.62	23.54	3.33	30.70	-	-	Peak
5150.00	49.40	-24.60	74.00	40.39	34.25	9.41	34.65	100	272	Peak
5150.00	38.01	-15.99	54.00	29.00	34.25	9.41	34.65	100	272	Average
5260.00	104.31	-	-	95.41	34.37	9.62	35.09	100	272	Peak
5260.00	93.69	-	-	84.79	34.37	9.62	35.09	100	272	Average
5350.00	49.30	-24.70	74.00	40.51	34.45	9.74	35.40	100	272	Peak
5350.00	38.06	-15.94	54.00	29.27	34.45	9.74	35.40	100	272	Average



Test Mode :	Mode 13	Temperature :	23~24°C
Test Channel :	52	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Vertical
Remark :	5260 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
32.97	32.22	-7.78	40.00	47.33	15.80	0.56	31.47	112	261	Peak
43.77	27.40	-12.60	40.00	47.13	11.13	0.64	31.50	-	-	Peak
139.62	28.23	-15.27	43.50	46.98	11.60	1.20	31.55	-	-	Peak
332.20	26.76	-19.24	46.00	41.73	14.48	1.86	31.31	-	-	Peak
699.70	26.76	-19.24	46.00	33.76	20.88	2.94	30.82	-	-	Peak
995.80	28.76	-25.24	54.00	30.99	24.84	3.51	30.58	-	-	Peak
5150.00	49.74	-24.26	74.00	40.73	34.25	9.41	34.65	111	29	Peak
5150.00	37.95	-16.05	54.00	28.94	34.25	9.41	34.65	111	29	Average
5260.00	107.79	-	-	98.89	34.37	9.62	35.09	111	29	Peak
5260.00	97.41	-	-	88.51	34.37	9.62	35.09	111	29	Average
5350.00	50.06	-23.94	74.00	41.27	34.45	9.74	35.40	111	29	Peak
5350.00	38.32	-15.68	54.00	29.53	34.45	9.74	35.40	111	29	Average



Test Mode :	Mode 14	Temperature :	23~24°C
Test Channel :	60	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Horizontal
Remark :	5300 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
48.90	28.08	-11.92	40.00	49.85	9.08	0.68	31.53	-	-	Peak
222.78	28.60	-17.40	46.00	47.86	10.75	1.44	31.45	-	-	Peak
297.57	32.57	-13.43	46.00	48.72	13.43	1.75	31.33	-	-	Peak
340.60	34.32	-11.68	46.00	49.01	14.72	1.89	31.30	130	100	Peak
371.40	31.67	-14.33	46.00	45.15	15.69	2.08	31.25	-	-	Peak
892.90	29.93	-16.07	46.00	33.75	23.55	3.33	30.70	-	-	Peak
5150.00	49.66	-24.34	74.00	40.65	34.25	9.41	34.65	175	270	Peak
5150.00	37.84	-16.16	54.00	28.83	34.25	9.41	34.65	175	270	Average
5300.00	104.03	-	-	95.18	34.40	9.66	35.21	175	270	Peak
5300.00	93.74	-	-	84.89	34.40	9.66	35.21	175	270	Average
5350.00	50.98	-23.02	74.00	42.19	34.45	9.74	35.40	175	270	Peak
5350.00	39.31	-14.69	54.00	30.52	34.45	9.74	35.40	175	270	Average



Test Mode :	Mode 14	Temperature :	23~24°C
Test Channel :	60	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Vertical
Remark :	5300 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
32.70	32.59	-7.41	40.00	47.70	15.80	0.56	31.47	100	309	Peak
73.74	27.29	-12.71	40.00	51.35	6.63	0.85	31.54	-	-	Peak
138.54	28.55	-14.95	43.50	47.30	11.60	1.20	31.55	-	-	Peak
391.70	25.84	-20.16	46.00	38.60	16.32	2.12	31.20	-	-	Peak
799.80	27.48	-18.52	46.00	32.55	22.47	3.14	30.68	-	-	Peak
1000.00	32.10	-21.90	54.00	34.28	24.89	3.51	30.58	-	-	Peak
5150.00	49.74	-24.26	74.00	40.73	34.25	9.41	34.65	101	31	Peak
5150.00	38.18	-15.82	54.00	29.17	34.25	9.41	34.65	101	31	Average
5300.00	107.30	-	-	98.45	34.40	9.66	35.21	101	31	Peak
5300.00	96.85	-	-	88.00	34.40	9.66	35.21	101	31	Average
5350.00	50.31	-23.69	74.00	41.52	34.45	9.74	35.40	101	31	Peak
5350.00	38.86	-15.14	54.00	30.07	34.45	9.74	35.40	101	31	Average



Test Mode :	Mode 15	Temperature :	23~24°C
Test Channel :	64	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Horizontal
Remark :	5320 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
48.90	27.88	-12.12	40.00	49.65	9.08	0.68	31.53	-	-	Peak
216.57	28.48	-17.52	46.00	48.27	10.27	1.40	31.46	-	-	Peak
290.82	31.41	-14.59	46.00	47.71	13.32	1.70	31.32	-	-	Peak
327.30	34.85	-11.15	46.00	50.02	14.30	1.84	31.31	107	152	Peak
817.30	28.57	-17.43	46.00	33.41	22.67	3.19	30.70	-	-	Peak
923.70	29.85	-16.15	46.00	33.17	23.92	3.40	30.64	-	-	Peak
5150.00	37.74	-16.26	54.00	28.73	34.25	9.41	34.65	100	265	Average
5150.00	49.02	-24.98	74.00	40.01	34.25	9.41	34.65	100	265	Peak
5320.00	94.35	-	-	85.51	34.42	9.70	35.28	100	265	Average
5320.00	104.96	-	-	96.12	34.42	9.70	35.28	100	265	Peak
5350.00	41.78	-12.22	54.00	32.99	34.45	9.74	35.40	100	265	Average
5350.00	59.35	-14.65	74.00	50.56	34.45	9.74	35.40	100	265	Peak



Test Mode :	Mode 15	Temperature :	23~24°C
Test Channel :	64	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Vertical
Remark :	5320 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
32.70	32.27	-7.73	40.00	47.38	15.80	0.56	31.47	100	218	Peak
137.73	28.46	-15.04	43.50	47.23	11.59	1.19	31.55	-	-	Peak
287.58	27.95	-18.05	46.00	44.33	13.27	1.68	31.33	-	-	Peak
335.00	26.85	-19.15	46.00	41.75	14.54	1.87	31.31	-	-	Peak
696.90	28.19	-17.81	46.00	35.22	20.86	2.93	30.82	-	-	Peak
995.80	30.52	-23.48	54.00	32.75	24.84	3.51	30.58	-	-	Peak
5150.00	38.05	-15.95	54.00	29.04	34.25	9.41	34.65	100	30	Average
5150.00	51.55	-22.45	74.00	42.54	34.25	9.41	34.65	100	30	Peak
5320.00	96.78	-	-	87.94	34.42	9.70	35.28	100	30	Average
5320.00	107.03	-	-	98.19	34.42	9.70	35.28	100	30	Peak
5350.00	42.25	-11.75	54.00	33.46	34.45	9.74	35.40	100	30	Average
5350.00	58.10	-15.90	74.00	49.31	34.45	9.74	35.40	100	30	Peak



Test Mode :	Mode 16	Temperature :	23~24°C
Test Channel :	100	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Horizontal
Remark :	5500 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
115.86	24.29	-19.21	43.50	43.57	11.20	1.08	31.56	-	-	Peak
241.14	29.94	-16.06	46.00	47.78	12.05	1.53	31.42	-	-	Peak
294.06	31.20	-14.80	46.00	47.43	13.37	1.72	31.32	-	-	Peak
332.20	36.31	-9.69	46.00	51.28	14.48	1.86	31.31	105	158	Peak
391.70	30.08	-15.92	46.00	42.84	16.32	2.12	31.20	-	-	Peak
911.80	29.67	-16.33	46.00	33.19	23.78	3.37	30.67	-	-	Peak
5470.00	40.04	-28.26	68.30	31.37	34.57	9.94	35.84	173	120	Average
5470.00	58.04	-30.26	88.30	49.37	34.57	9.94	35.84	173	120	Peak
5500.00	100.82	-	-	92.17	34.60	10.02	35.97	173	120	Peak
5500.00	90.64	-	-	81.99	34.60	10.02	35.97	173	120	Average
5725.00	37.59	-30.71	68.30	28.69	34.82	9.92	35.84	173	120	Average
5725.00	49.39	-38.91	88.30	40.49	34.82	9.92	35.84	173	120	Peak



Test Mode :	Mode 16	Temperature :	23~24°C
Test Channel :	100	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Vertical
Remark :	5500 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
32.70	32.68	-7.32	40.00	47.79	15.80	0.56	31.47	137	106	Peak
137.73	28.44	-15.06	43.50	47.21	11.59	1.19	31.55	-	-	Peak
287.85	28.13	-17.87	46.00	44.51	13.27	1.68	31.33	-	-	Peak
444.20	25.22	-20.78	46.00	36.74	17.30	2.29	31.11	-	-	Peak
803.30	27.75	-18.25	46.00	32.78	22.50	3.15	30.68	-	-	Peak
998.60	32.24	-21.76	54.00	34.43	24.88	3.51	30.58	-	-	Peak
5470.00	41.17	-27.13	68.30	32.50	34.57	9.94	35.84	100	47	Average
5470.00	55.50	-32.80	88.30	46.83	34.57	9.94	35.84	100	47	Peak
5500.00	93.15	-	-	84.50	34.60	10.02	35.97	100	47	Average
5500.00	103.75	-	-	95.10	34.60	10.02	35.97	100	47	Peak
5725.00	37.63	-30.67	68.30	28.73	34.82	9.92	35.84	100	47	Average
5725.00	49.21	-39.09	88.30	40.31	34.82	9.92	35.84	100	47	Peak



Test Mode :	Mode 17	Temperature :	23~24°C
Test Channel :	116	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Horizontal
Remark :	5580 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
115.86	24.16	-19.34	43.50	43.44	11.20	1.08	31.56	-	-	Peak
224.94	29.66	-16.34	46.00	48.77	10.89	1.45	31.45	-	-	Peak
297.57	31.47	-14.53	46.00	47.62	13.43	1.75	31.33	-	-	Peak
332.90	34.62	-11.38	46.00	49.59	14.48	1.86	31.31	133	158	Peak
368.60	32.09	-13.91	46.00	45.67	15.60	2.08	31.26	-	-	Peak
912.50	29.35	-16.65	46.00	32.86	23.79	3.37	30.67	-	-	Peak
5470.00	50.82	-37.48	88.30	39.32	34.57	9.94	33.01	182	92	5470.00
5470.00	39.82	-28.48	68.30	28.32	34.57	9.94	33.01	182	92	5470.00
5580.00	105.56	-	-	93.90	34.67	9.99	33.00	182	92	5580.00
5580.00	95.29	-	-	83.63	34.67	9.99	33.00	182	92	5580.00
5725.00	51.41	-36.89	88.30	39.85	34.82	9.92	33.18	182	92	5725.00
5725.00	40.15	-28.15	68.30	28.59	34.82	9.92	33.18	182	92	5725.00



Test Mode :	Mode 17	Temperature :	23~24°C
Test Channel :	116	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Vertical
Remark :	5580 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
32.70	32.17	-7.83	40.00	47.28	15.80	0.56	31.47	100	322	Peak
138.54	28.59	-14.91	43.50	47.34	11.60	1.20	31.55	-	-	Peak
288.93	27.14	-18.86	46.00	43.48	13.29	1.69	31.32	-	-	Peak
307.00	26.82	-19.18	46.00	42.66	13.70	1.79	31.33	-	-	Peak
772.50	26.29	-19.71	46.00	31.85	22.03	3.10	30.69	-	-	Peak
996.50	30.92	-23.08	54.00	33.15	24.84	3.51	30.58	-	-	Peak
5470.00	51.52	-36.78	88.30	40.02	34.57	9.94	33.01	101	354	Peak
5470.00	39.74	-28.56	68.30	28.24	34.57	9.94	33.01	101	354	Average
5580.00	106.67	-	-	95.01	34.67	9.99	33.00	101	354	Peak
5580.00	95.47	-	-	83.81	34.67	9.99	33.00	101	354	Average
5725.00	51.44	-36.86	88.30	39.88	34.82	9.92	33.18	101	354	Peak
5725.00	40.19	-28.11	68.30	28.63	34.82	9.92	33.18	101	354	Average



Test Mode :	Mode 18	Temperature :	23~24°C
Test Channel :	140	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Horizontal
Remark :	5700 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
48.90	26.39	-13.61	40.00	48.16	9.08	0.68	31.53	-	-	Peak
115.86	23.02	-20.48	43.50	42.30	11.20	1.08	31.56	-	-	Peak
295.41	31.84	-14.16	46.00	48.03	13.40	1.74	31.33	-	-	Peak
335.00	35.33	-10.67	46.00	50.23	14.54	1.87	31.31	114	352	Peak
377.70	31.06	-14.94	46.00	44.34	15.87	2.09	31.24	-	-	Peak
897.80	29.79	-16.21	46.00	33.54	23.61	3.34	30.70	-	-	Peak
5470.00	37.45	-30.85	68.30	28.78	34.57	9.94	35.84	100	272	Average
5470.00	48.44	-39.86	88.30	39.77	34.57	9.94	35.84	100	272	Peak
5700.00	94.05	-	-	85.19	34.79	9.93	35.86	100	272	Average
5700.00	104.43	-	-	95.57	34.79	9.93	35.86	100	272	Peak
5725.00	45.45	-22.85	68.30	36.55	34.82	9.92	35.84	100	272	Average
5725.00	62.09	-26.21	88.30	53.19	34.82	9.92	35.84	100	272	Peak
17100.00	59.81	-28.49	88.30	56.98	42.00	14.33	53.50	100	0	Peak

Test Mode :	Mode 18	Temperature :	23~24°C
Test Channel :	140	Relative Humidity :	49~50%
Test Engineer :	Ivan Jiang	Polarization :	Vertical
Remark :	5700 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
32.70	32.41	-7.59	40.00	47.52	15.80	0.56	31.47	141	251	Peak
73.74	26.28	-13.72	40.00	50.34	6.63	0.85	31.54	-	-	Peak
138.54	27.85	-15.65	43.50	46.60	11.60	1.20	31.55	-	-	Peak
307.70	26.52	-19.48	46.00	42.36	13.70	1.79	31.33	-	-	Peak
719.30	25.65	-20.35	46.00	32.23	21.20	2.99	30.77	-	-	Peak
995.80	30.56	-23.44	54.00	32.79	24.84	3.51	30.58	-	-	Peak
5470.00	37.56	-30.74	68.30	28.89	34.57	9.94	35.84	122	4	Average
5470.00	49.41	-38.89	88.30	40.74	34.57	9.94	35.84	122	4	Peak
5700.00	98.40	-	-	89.54	34.79	9.93	35.86	122	4	Average
5700.00	108.66	-	-	99.80	34.79	9.93	35.86	122	4	Peak
5725.00	48.39	-19.91	68.30	39.49	34.82	9.92	35.84	122	4	Average
5725.00	66.85	-21.45	88.30	57.95	34.82	9.92	35.84	122	4	Peak

3.8 Peak Excursion Ratio Measurement

3.8.1 Limit of Peak Excursion Ratio

The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the maximum conducted output power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

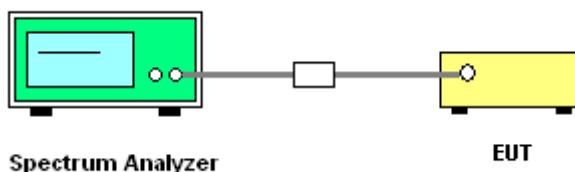
3.8.2 Measuring Instruments

See list of measuring instruments of this test report.

3.8.3 Test Procedures

1. The transmitter output is connected to the spectrum analyzer.
2. The resolution bandwidth and video bandwidth are set as below,
Trace A: RBW=1 MHz, VBW=3 MHz
Trace B: RBW=1 MHz, VBW=300 kHz
3. Trace A is set peak detector and to Max Hold, then to View. Then the detector is readjusted to sample detector, max hold to run for 60 seconds, and the signal under this measurement condition is captured in Trace B in Accordance with the method 3 of DA-02-2138.
4. The difference between the traces is investigated. The marker is placed at the frequency, which shows the largest difference. The amplitude delta between the traces at this frequency is the peak excursion.

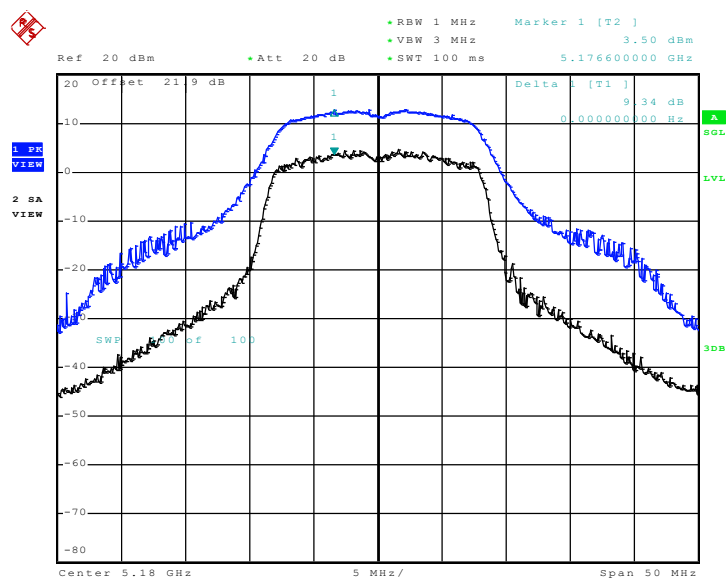
3.8.4 Test Setup



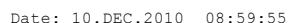
3.8.5 Test Result of Peak Excursion Ratio

Test Mode :	Mode 1~9	Temperature :	25~27℃
Test Engineer :	Ken Hsu	Relative Humidity :	54~57%

Peak Excursion Ratio Plot on 802.11a Channel 36



Date: 10.DEC.2010 08:43:44

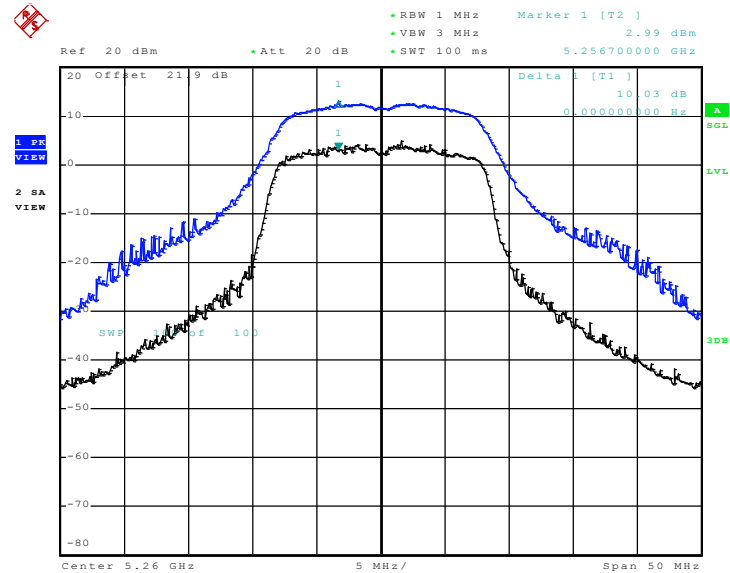


Peak Excursion Ratio Plot on 802.11a Channel 48



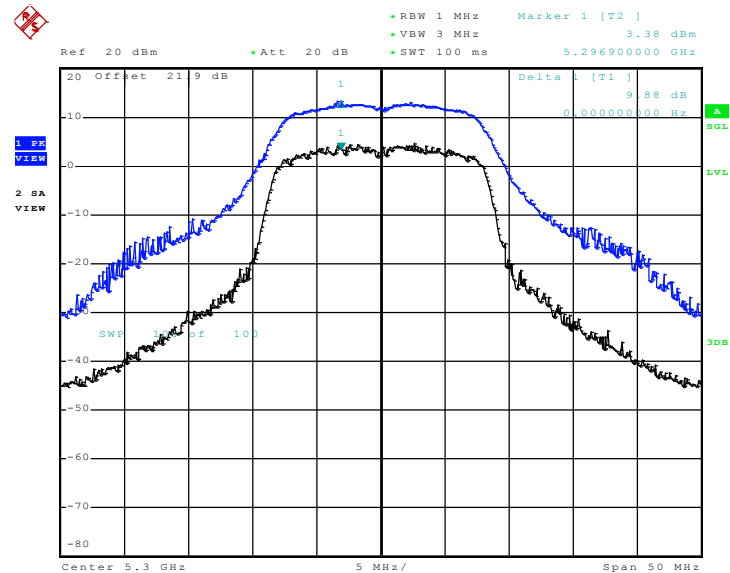


Peak Excursion Ratio Plot on 802.11a Channel 52



Date: 10.DEC.2010 09:01:59

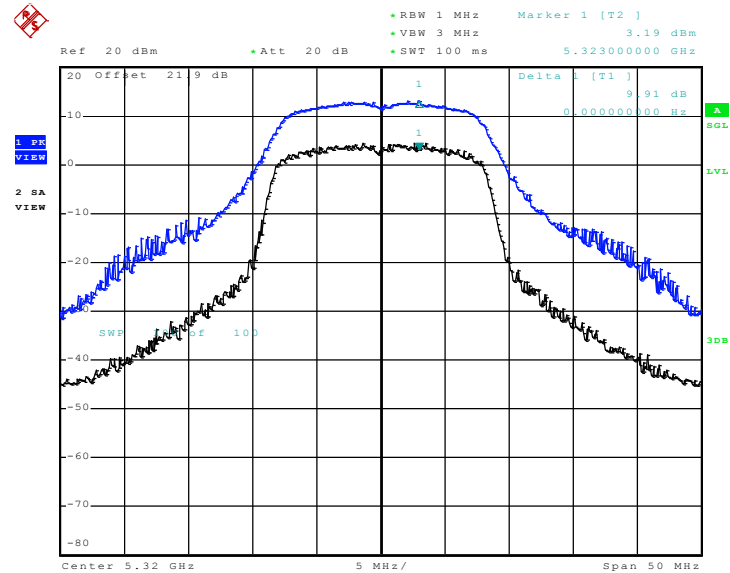
Peak Excursion Ratio Plot on 802.11a Channel 60



Date: 10.DEC.2010 09:02:57

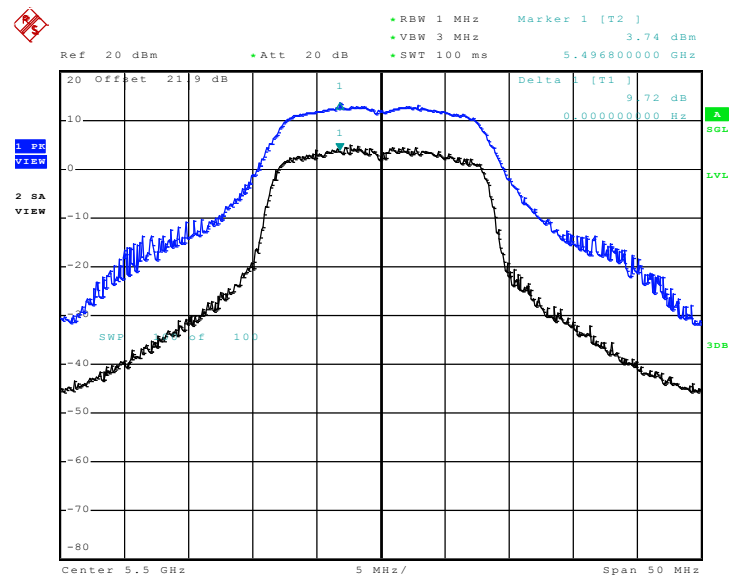


Peak Excursion Ratio Plot on 802.11a Channel 64



Date: 10.DEC.2010 09:03:53

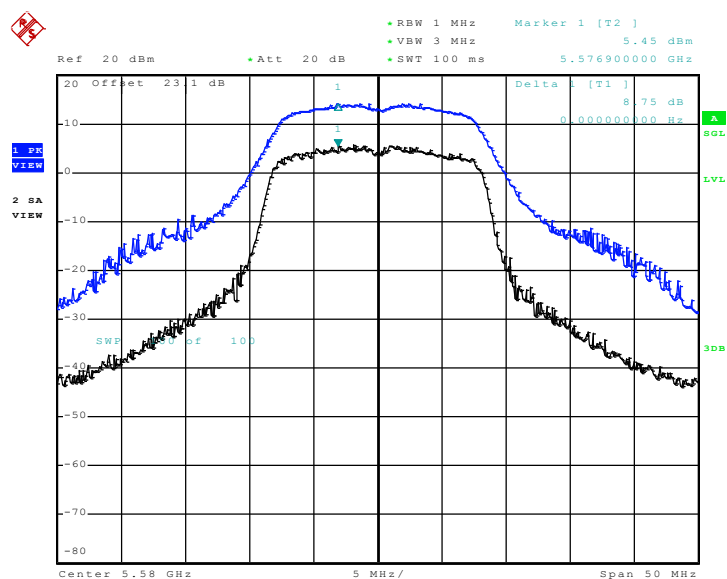
Peak Excursion Ratio Plot on 802.11a Channel 100



Date: 10.DEC.2010 09:06:51

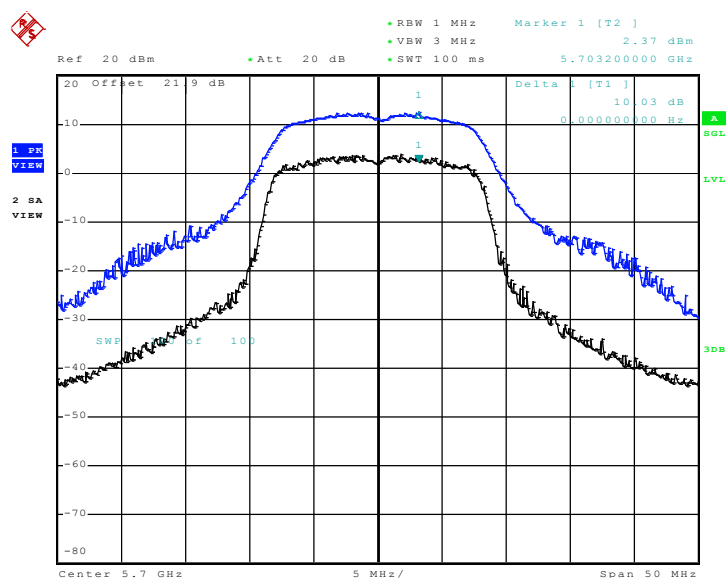


Peak Excursion Ratio Plot on 802.11a Channel 116



Date: 10.FEB.2011 00:22:05

Peak Excursion Ratio Plot on 802.11a Channel 140

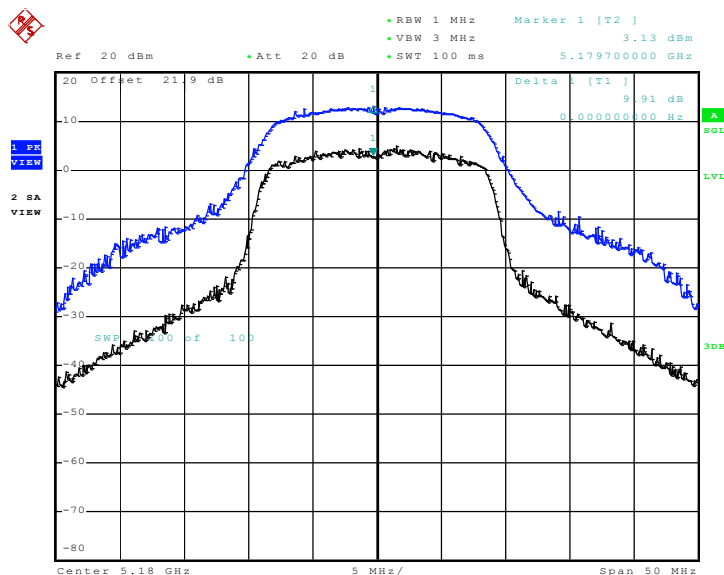


Date: 10.DEC.2010 09:10:49

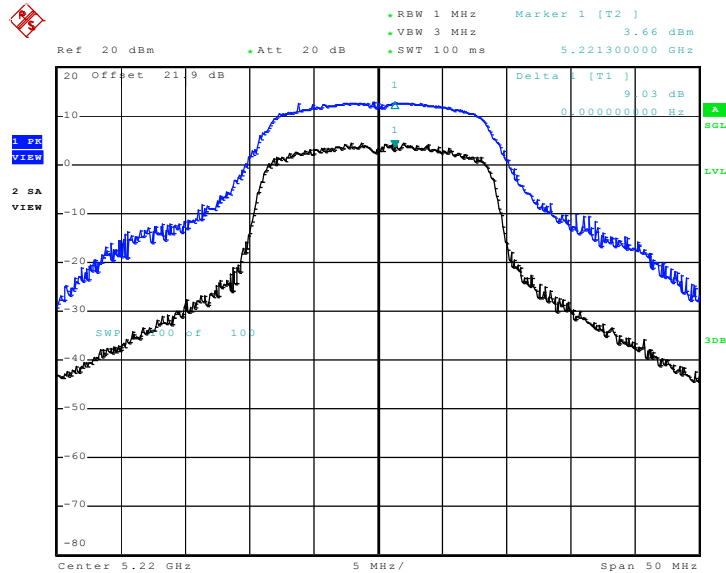


Test Mode :	Mode 10~18	Temperature :	25~27°C
Test Engineer :	Ken Hsu	Relative Humidity :	54~57%

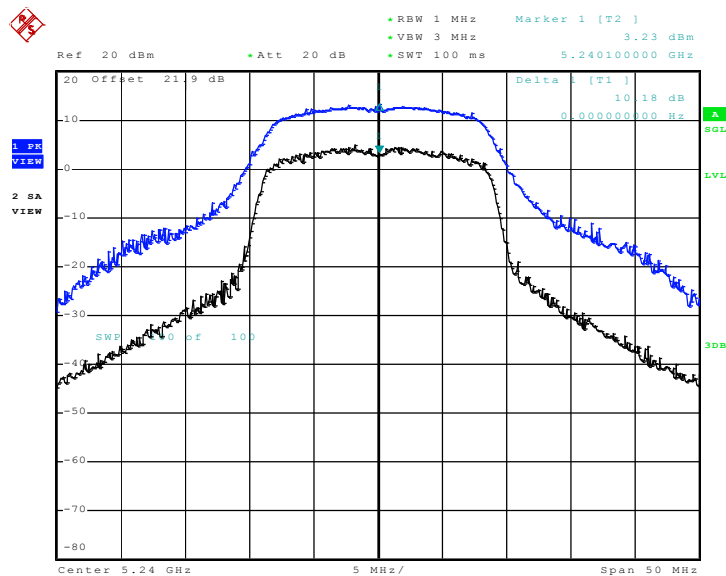
Peak Excursion Ratio Plot on 802.11n (BW 20MHz) Channel 36



Date: 10.DEC.2010 09:14:29

Peak Excursion Ratio Plot on 802.11n (BW 20MHz) Channel 44


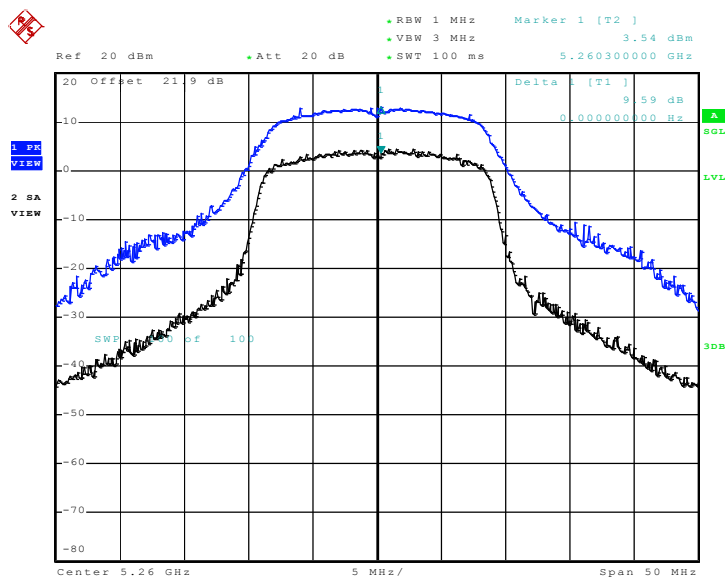
Date: 10.DEC.2010 09:17:12

Peak Excursion Ratio Plot on 802.11n (BW 20MHz) Channel 48


Date: 10.DEC.2010 09:19:46

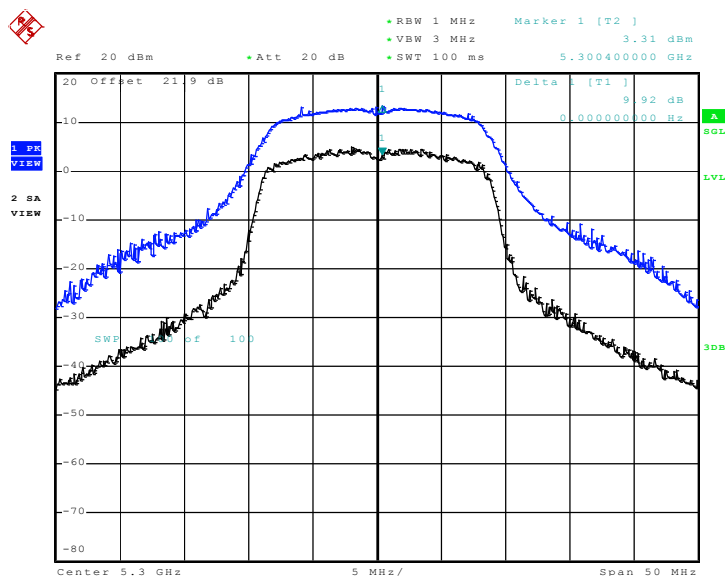


Peak Excursion Ratio Plot on 802.11n (BW 20MHz) Channel 52



Date: 10.DEC.2010 09:21:46

Peak Excursion Ratio Plot on 802.11n (BW 20MHz) Channel 60



Date: 10.DEC.2010 09:22:31

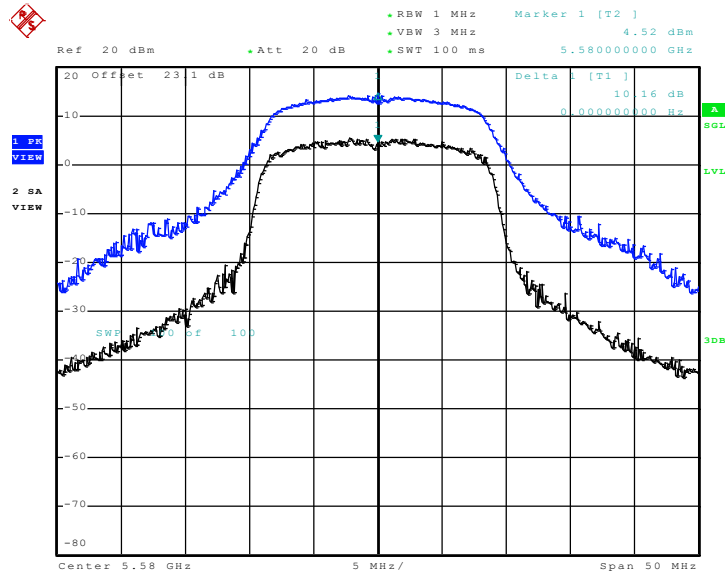


Peak Excursion Ratio Plot on 802.11n (BW 20MHz) Channel 100



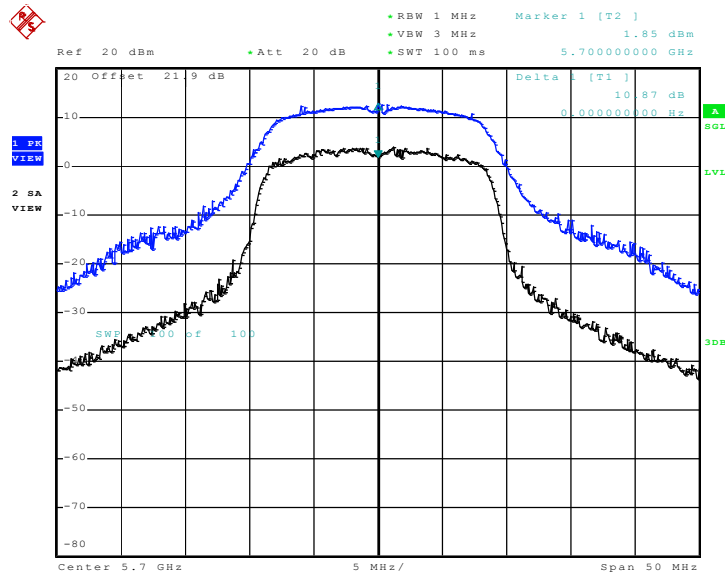


Peak Excursion Ratio Plot on 802.11n (BW 20MHz) Channel 116



Date: 10.FEB.2011 01:14:21

Peak Excursion Ratio Plot on 802.11n (BW 20MHz) Channel 140



Date: 10.DEC.2010 09:27:12

3.9 Automatically Discontinue Transmission

3.9.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

3.9.2 Measuring Instruments

See list of measuring instruments of this test report.

3.9.3 Test Result of Automatically Discontinue Transmission

During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

3.10 Frequency Stability Measurement

3.10.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

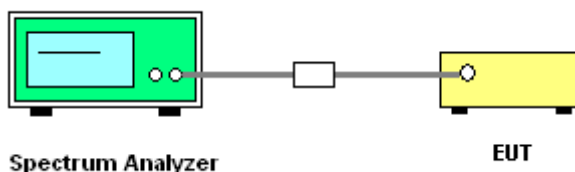
3.10.2 Measuring Instruments

See list of measuring instruments of this test report.

3.10.3 Test Procedures

1. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
3. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

3.10.4 Test Setup



3.10.5 Test Result of Frequency Stability

Test Mode :	Mode 1~9	Temperature :	25~27℃
Test Engineer :	Ken Hsu	Relative Humidity :	54~57%

Channel	Frequency (MHz)	Low Frequency	High Frequency	Frequency Stability (ppm)
36	5180	5171.72	5188.28	0.00
44	5220	5211.72	5228.28	0.00
48	5240	5231.72	5248.28	0.00
52	5260	5251.72	5268.28	0.00
60	5300	5291.72	5308.28	0.00
64	5320	5311.72	5328.28	0.00
100	5500	5491.72	5508.28	0.00
116	5580	5571.74	5588.26	0.00
140	5700	5691.72	5708.28	0.00

Test Mode :	Mode 10~18	Temperature :	25~27℃
Test Engineer :	Ken Hsu	Relative Humidity :	54~57%

Channel	Frequency (MHz)	Low Frequency	High Frequency	Frequency Stability (ppm)
36	5180	5171.16	5188.92	7.72
44	5220	5211.12	5228.88	0.00
48	5240	5231.16	5248.88	3.82
52	5260	5251.16	5268.88	3.80
60	5300	5291.12	5308.92	3.77
64	5320	5311.12	5328.88	0.00
100	5500	5491.08	5508.88	-3.64
116	5580	5571.10	5588.82	-7.17
140	5700	5691.12	5708.84	-3.51



3.11 Antenna Requirements

3.11.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2), if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.11.2 Antenna Connected Construction

The antenna type used in this product is PIFA Antenna and it is considered to meet antenna requirement of FCC.

3.11.3 Antenna Gain

The antenna gain is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

4 List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP30	101329	9kHz~30GHz	Apr. 26, 2010	Apr. 25, 2011	Conducted (TH02-HY)
Power Meter	Anritsu	ML2495A	0932001	N/A	Sep. 13, 2010	Sep. 12, 2011	Conducted (TH02-HY)
Power Sensor	Anritsu	MA2411B	0846202	N/A	Sep. 14, 2010	Sep. 13, 2011	Conducted (TH02-HY)
EMI Test Receive	R&S	ESCS 30	100356	9KHz – 2.75GHz	Aug. 16, 2010	Aug. 15, 2011	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100081	9KHz – 30MHz	Dec. 03, 2010	Dec. 02, 2011	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100080	9KHz – 30MHz	Dec. 01, 2010	Nov. 30, 2011	Conduction (CO05-HY)
AC Power Source	APC	APC-1000W	N/A	N/A	N/A	N/A	Conduction (CO05-HY)
System Simulator	R&S	CMU200	117997	N/A	May 14, 2009	May 13, 2011	Conduction (CO05-HY)
GPS Station	T&E	GS-50	N/A	N/A	N/A	N/A	Conduction (CO05-HY)
Bilog Antenna	SCHAFFNER	CBL6111C	2726	30MHz ~ 1GHz	Oct. 31, 2010	Oct. 30, 2011	Radiation (03CH07-HY)
Spectrum Analyzer	R&S	FSP	101067	9KHz ~ 30GHz	Dec. 03, 2010	Dec. 02, 2011	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 19, 2010	Aug. 18, 2011	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz- 40GHz	Oct. 18, 2010	Oct. 17, 2011	Radiation (03CH07-HY)
Pre Amplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Dec. 06, 2010	Dec. 05, 2011	Radiation (03CH07-HY)
Pre Amplifier	COM-POWER	PA-103A	161241	10-1000MHz.32 dB.GAIN	Mar. 27, 2010	Mar. 26, 2011	Radiation (03CH07-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz~30 MHz	Jul. 29, 2010	Jul. 28, 2011	Radiation (03CH07-HY)

5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Contribution	Uncertainty of X_i		$u(X_i)$
	dB	Probability Distribution	
Receiver Reading	0.10	Normal (k=2)	0.05
Cable Loss	0.10	Normal (k=2)	0.05
AMN Insertion Loss	2.50	Rectangular	0.63
Receiver Specification	1.50	Rectangular	0.43
Site Imperfection	1.39	Rectangular	0.80
Mismatch	+0.34 / -0.35	U-Shape	0.24
Combined Standard Uncertainty $U_c(y)$	1.13		
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.26		

Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Contribution	Uncertainty of X_i		$u(X_i)$
	dB	Probability Distribution	
Receiver Reading	0.41	Normal (k=2)	0.21
Antenna Factor Calibration	0.83	Normal (k=2)	0.42
Cable Loss Calibration	0.25	Normal (k=2)	0.13
Pre-Amplifier Gain Calibration	0.27	Normal (k=2)	0.14
RCV/SPA Specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site Imperfection	1.43	Rectangular	0.83
Mismatch	+0.39 / -0.41	U-Shape	0.28
Combined Standard Uncertainty $U_c(y)$	1.27		
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.54		

Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

Contribution	Uncertainty of X_i		$u(X_i)$	C_i	$C_i * u(X_i)$
	dB	Probability Distribution			
Receiver Reading	± 0.10	Normal (k=2)	0.10	1	0.10
Antenna Factor Calibration	± 1.70	Normal (k=2)	0.85	1	0.85
Cable Loss Calibration	± 0.50	Normal (k=2)	0.25	1	0.25
Receiver Correction	± 2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	± 1.50	Rectangular	0.87	1	0.87
Site Imperfection	± 2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20\text{Log}(1-\Gamma_1*\Gamma_2)$	+0.34 / -0.35	U-Shape	0.244	1	0.244
Combined Standard Uncertainty $U_c(y)$	2.36				
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.72				



Appendix A. Photographs of EUT

Please refer to Sporton report number EP0D0904 as below.



1. External Photograph of EUT







2. Photograph of Accessory

List of Accessory:

Specification of Accessory		
Battery	Brand Name	Honeywell
	Model Name	99EX-BTEC
Holster	Model Name	99EX-Holster
LCD Panel	Brand Name	Casio
	Model Name	OM37H3M04XLC
Camera	Brand Name	LITE-ON Semiconductor Corp.
	Model Name	DCM-300MCB
WWAN Module	Brand Name	Sierra wireless
	Model Name	Gobi3000

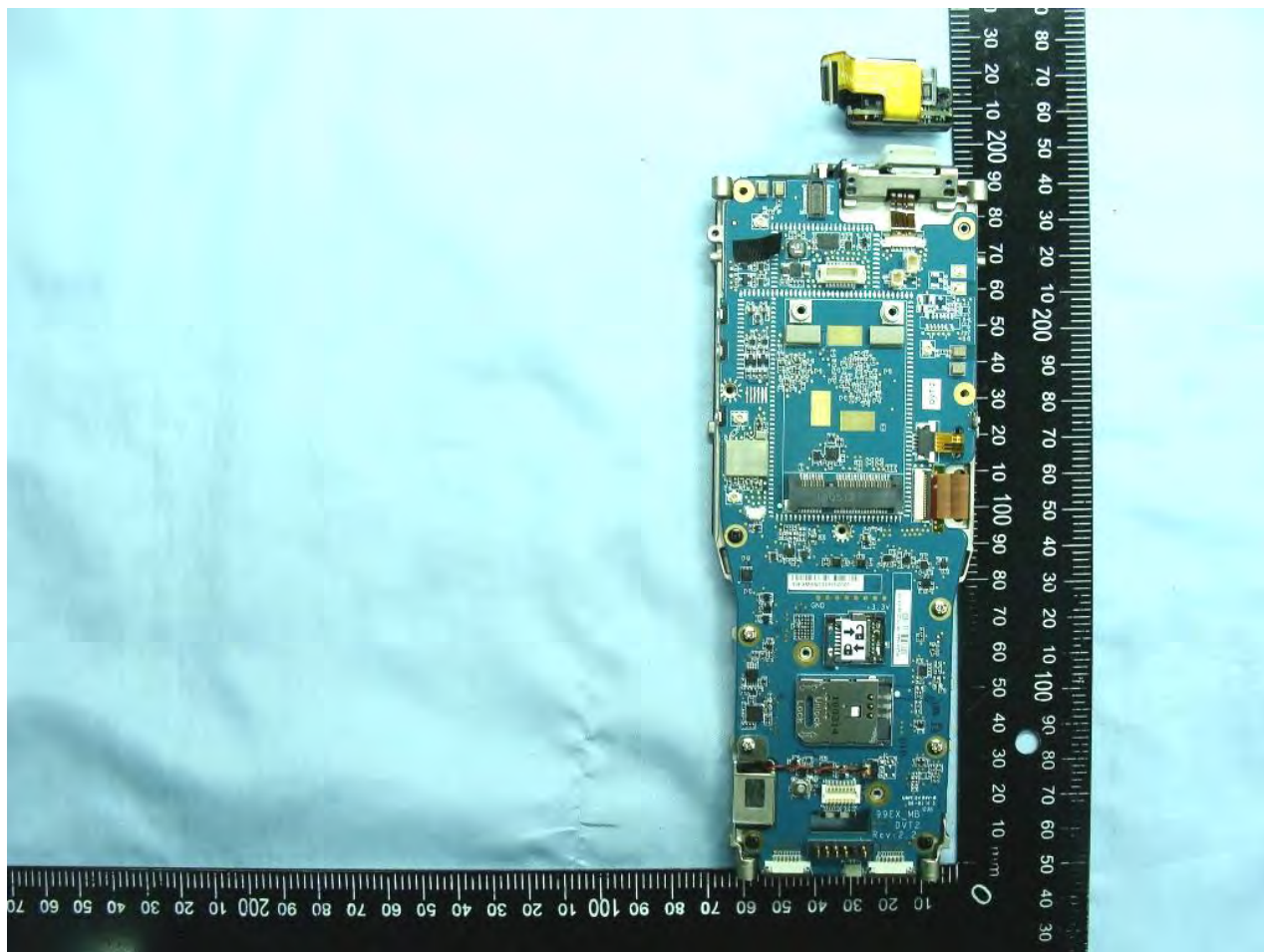
Remark: For accessories equipped with this EUT, please refer to the following photos.

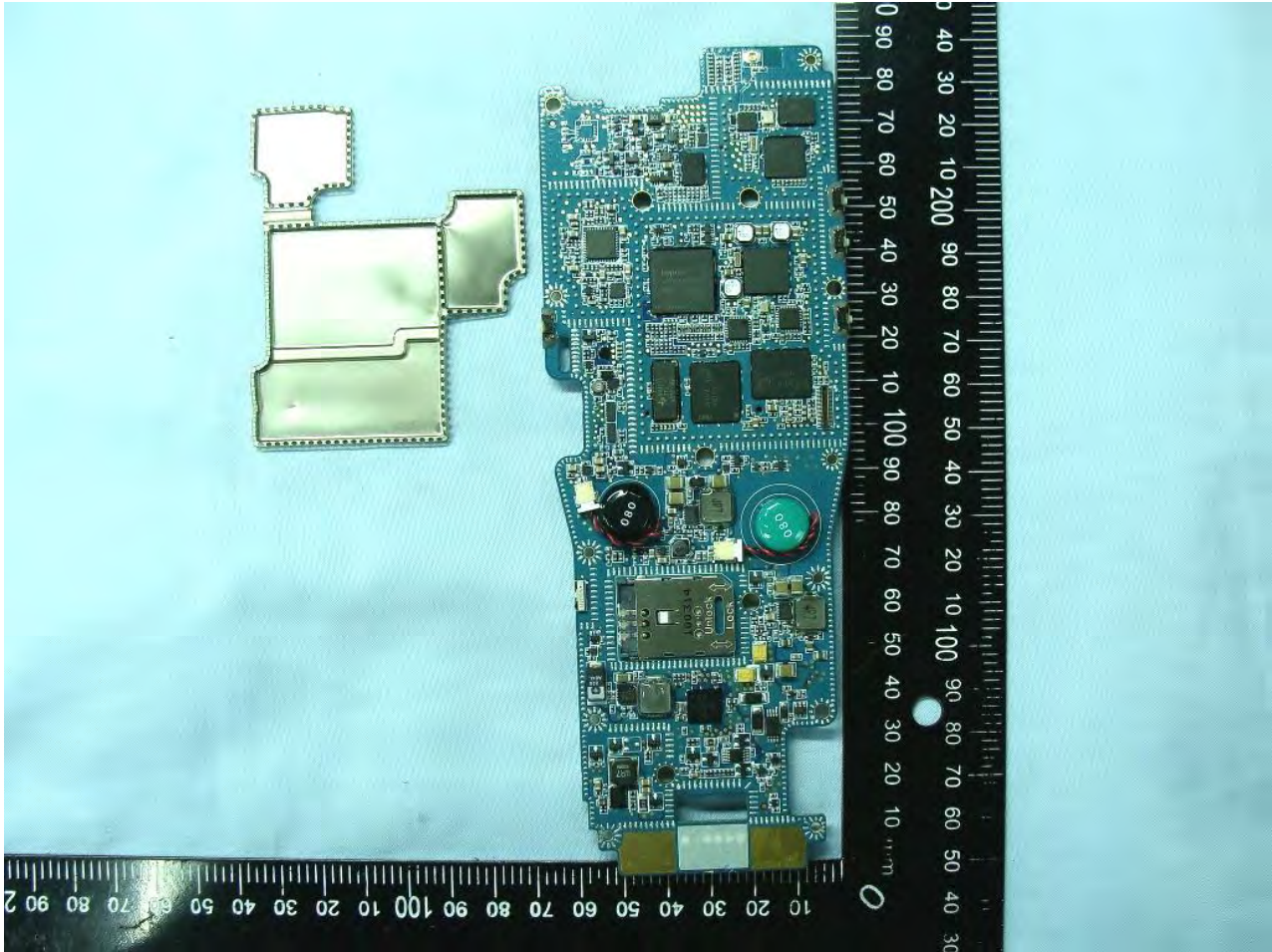




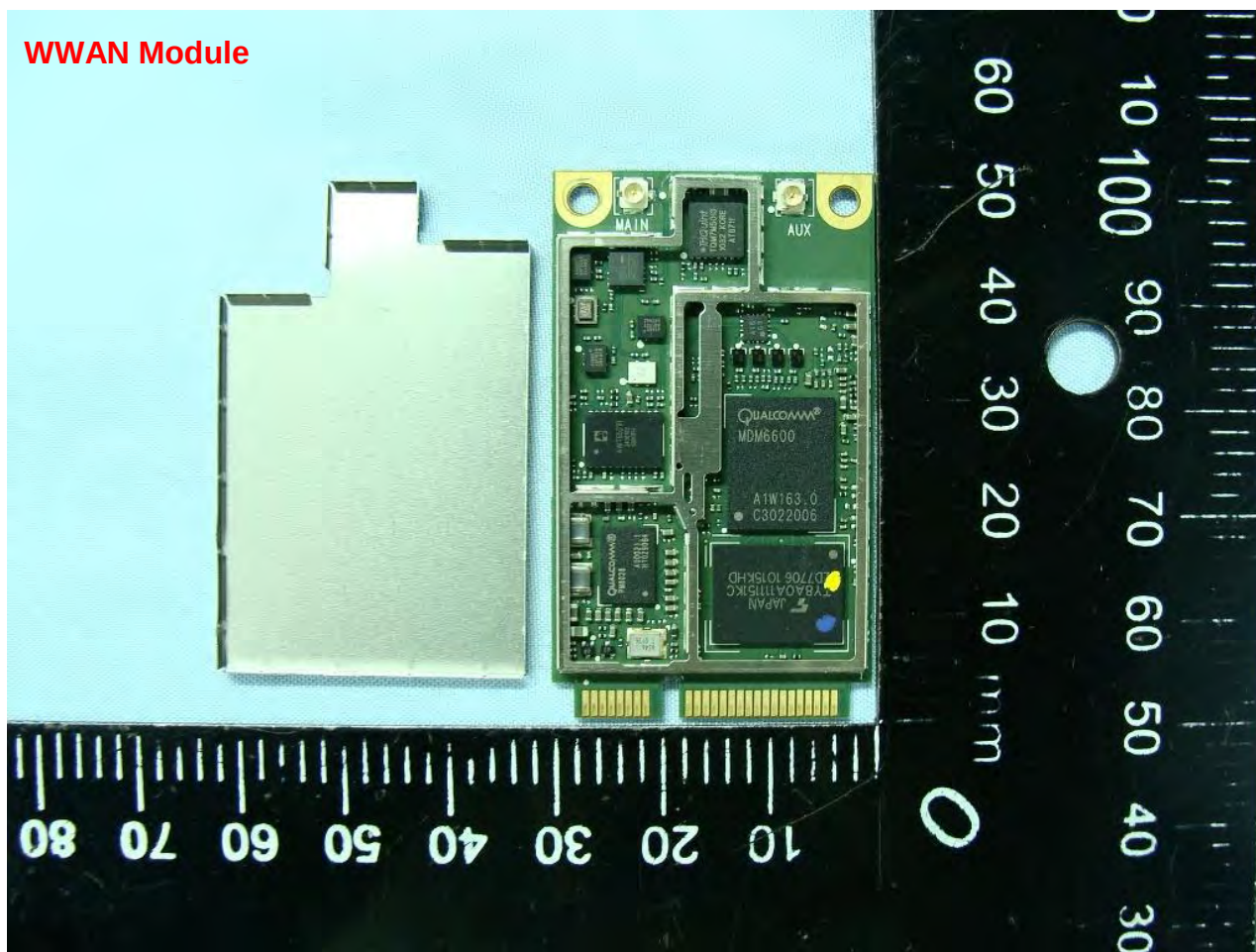


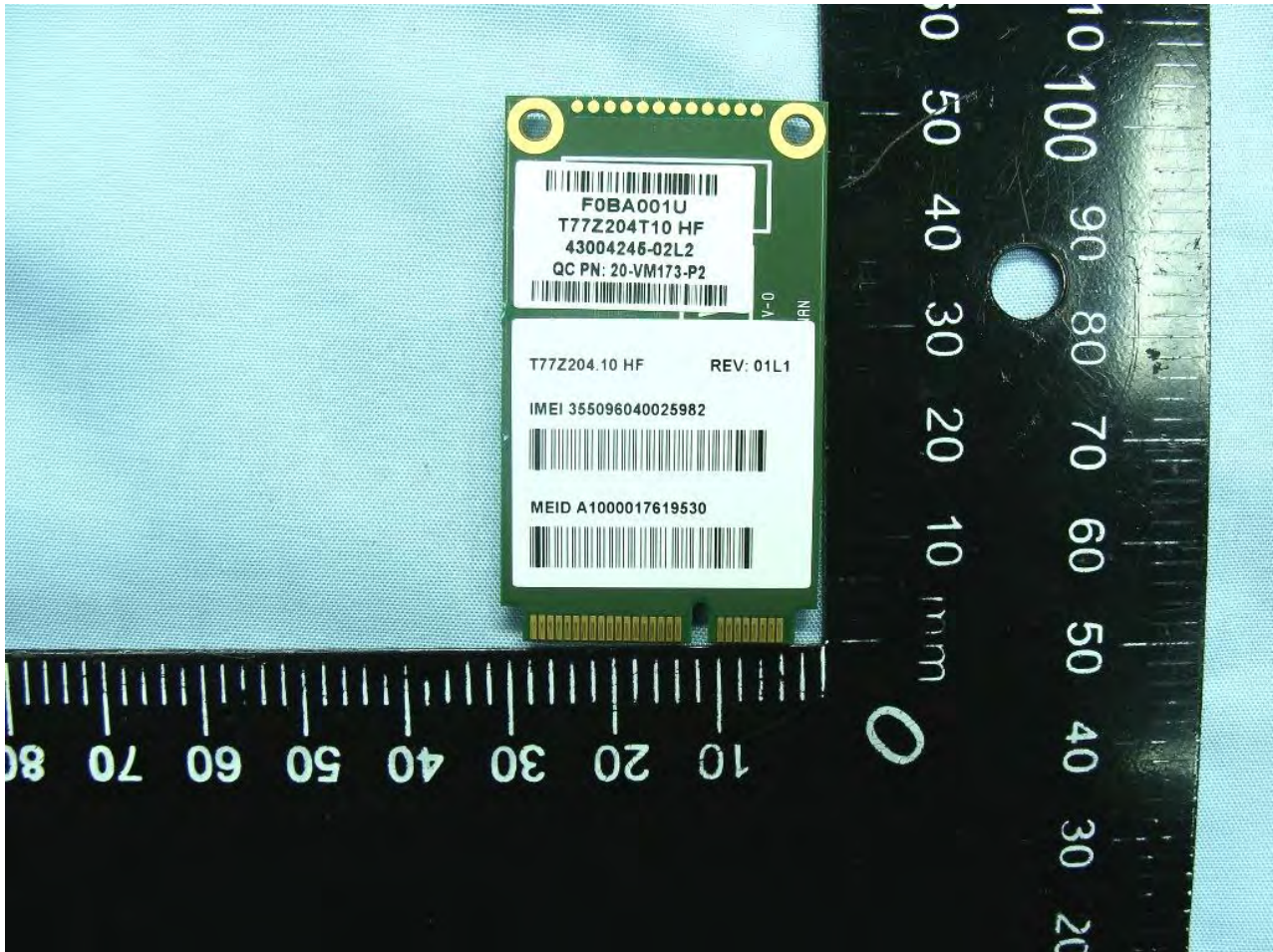
3. Internal Photograph of EUT

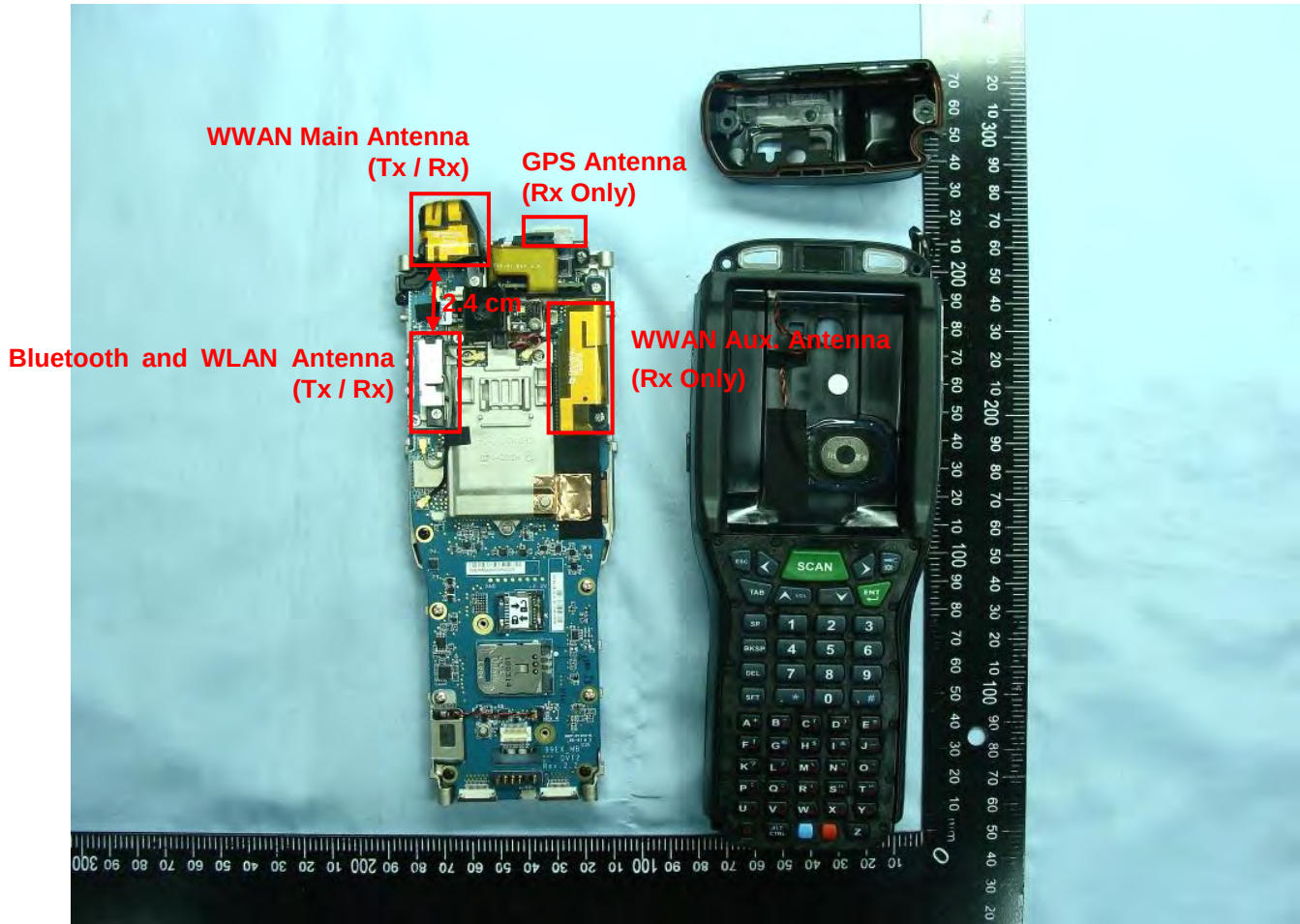




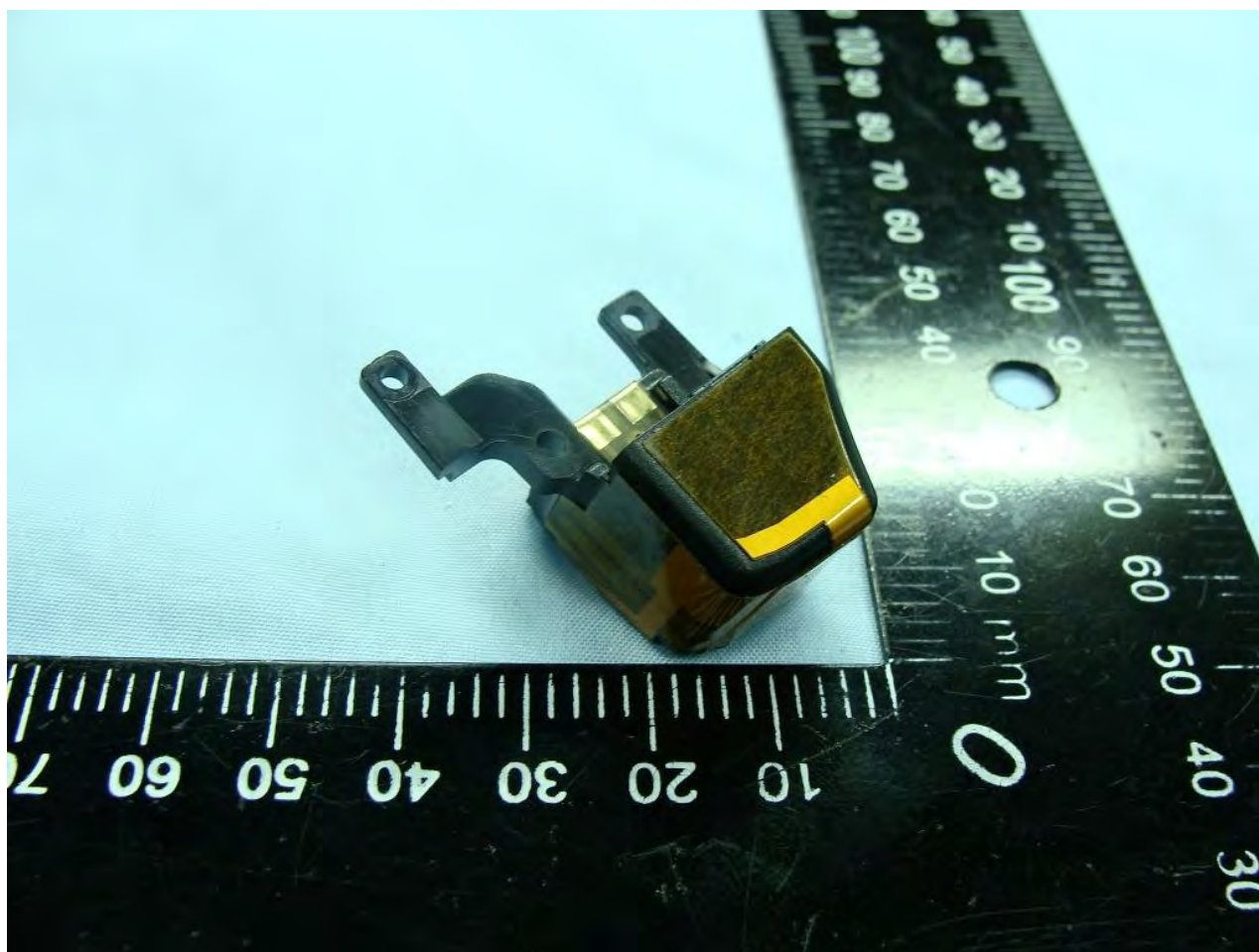
WWAN Module





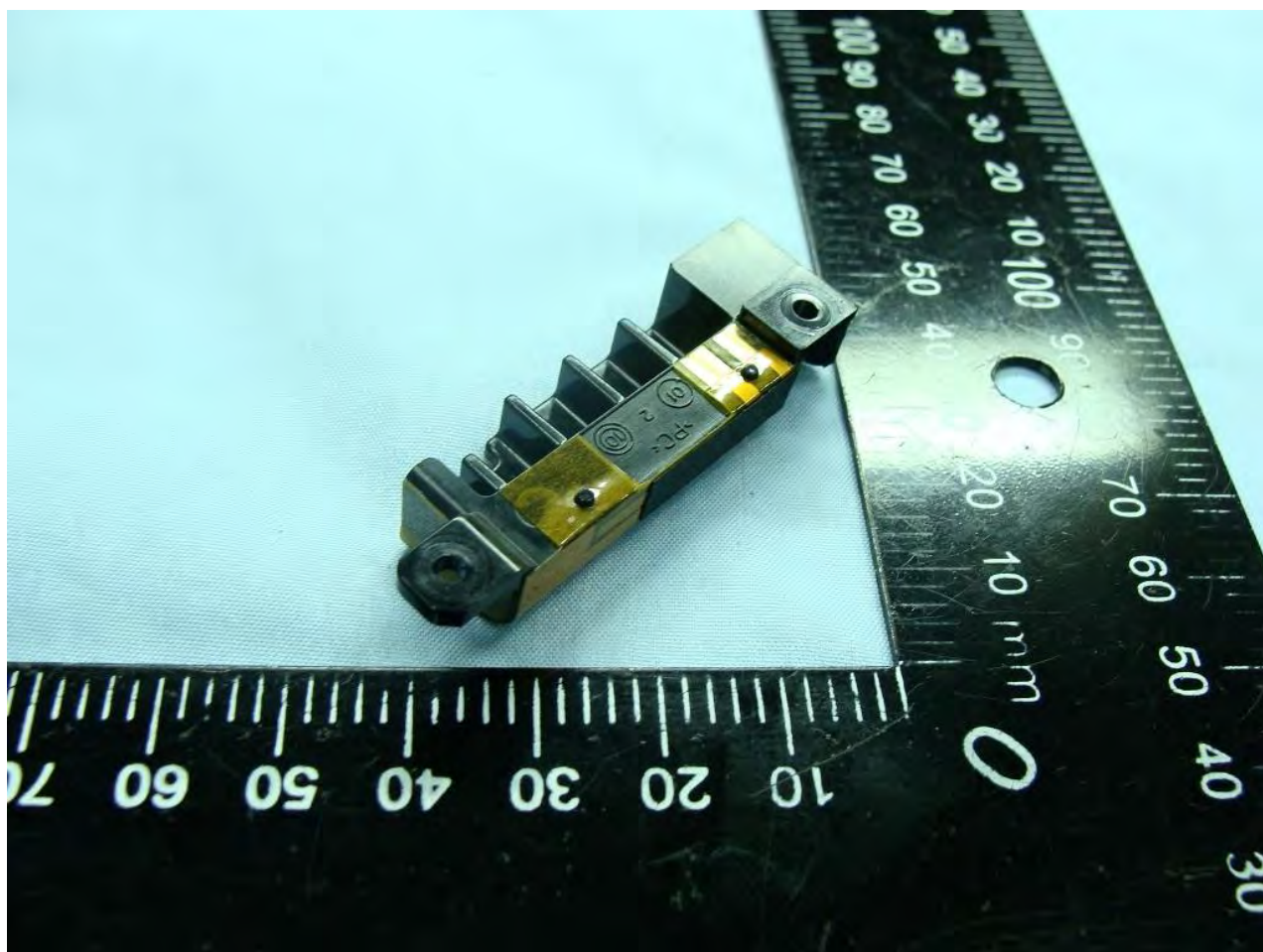


WWAN Main Antenna

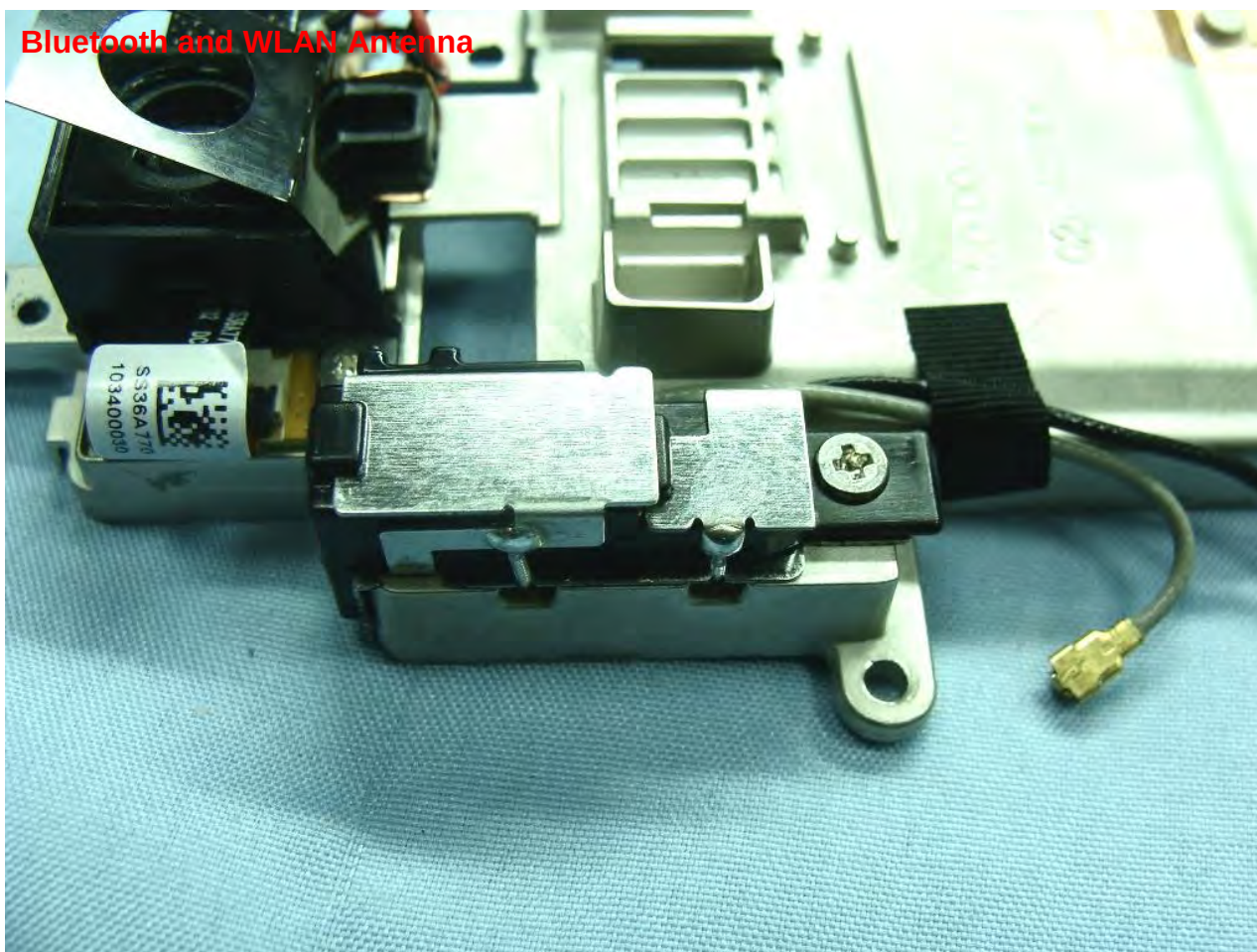


WWAN Aux. Antenna





Bluetooth and WLAN Antenna



GPS Antenna

