Radiated Emission test (below 1GHz)

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1# D:\2017 RE1# Report Data\Q17080804-08O\RF-FCC IC 30M-1G.EM6

Test Date : 2017-09-12 Tested By : Jerry

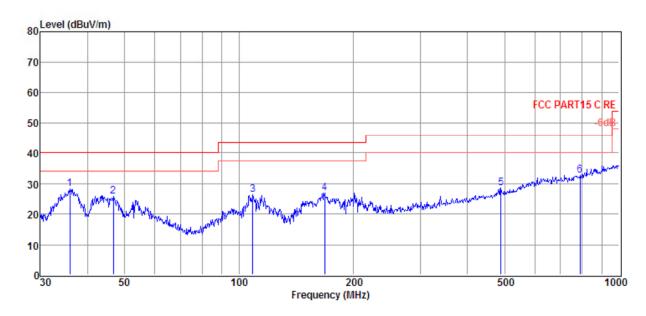
EUT : Roadie 2 Model Number : RD200

Power Supply : AC 120V/60Hz Test Mode : TX mode

Condition : Temp:24.5'C,Humi:55%, Press:100.1kPa : 2016 VULB9163 1#/3m/VERTICAL

Memo :

Data: 1



Item	Freq.	Read	Antenna	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	(dBµV/m)	(dBµV/m)	(dB)		
1	35.88	12.50	11.98	3.74	28.22	40.00	-11.78	Peak	VERTICAL
2	46.67	9.72	12.23	3.86	25.81	40.00	-14.19	Peak	VERTICAL
3	108.65	10.81	11.16	4.35	26.32	43.50	-17.18	Peak	VERTICAL
4	168.41	13.98	8.34	4.71	27.03	43.50	-16.47	Peak	VERTICAL
5	489.03	5.43	17.10	6.13	28.66	46.00	-17.34	Peak	VERTICAL
6	790.62	4.71	20.92	7.09	32.72	46.00	-13.28	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

- 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Test Site : DDT 3m Chamber 1# D:\2017 RE1# Report Data\Q17080804-08O\RF-FCC IC 30M-1G.EM6

Test Date : 2017-09-12 Tested By : Jerry

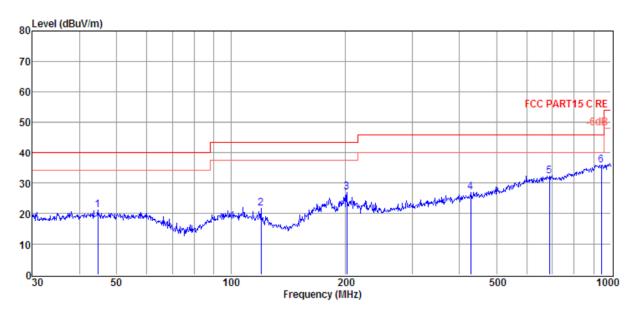
EUT : Roadie 2 Model Number : RD200

Power Supply : AC 120V/60Hz Test Mode : TX mode

Condition : Temp:24.5'C,Humi:55%, Press:100.1kPa : Antenna/Distance : 2016 VULB9163 1#/3m/HORIZONTAL

Memo :

Data: 2



Item	Freq.	Read	Antenna	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	(dBµV/m)	(dBµV/m)	(dB)		
1	44.59	5.12	12.34	3.84	21.30	40.00	-18.70	Peak	HORIZONTAL
2	119.86	7.98	9.33	4.42	21.73	43.50	-21.77	Peak	HORIZONTAL
3	202.10	11.60	10.43	4.91	26.94	43.50	-16.56	Peak	HORIZONTAL
4	428.02	4.73	16.22	5.90	26.85	46.00	-19.15	Peak	HORIZONTAL
5	689.56	5.53	19.80	6.80	32.13	46.00	-13.87	Peak	HORIZONTAL
6	942.13	5.31	22.96	7.53	35.80	46.00	-10.20	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

- 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated Emission test (above 1GHz)

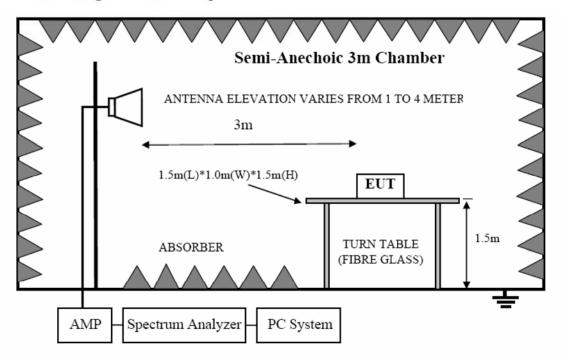
Freq. (MHz) Read level (dBμV) Antenna (dB/m) PRM (Dable (DB/m)) Cable (DB/m) Result (DB/m) Limit (dBμ (dB)) Margin (dB) Detector type Polariza GFSK Tx mode 2402MHz 4825.00 34.55 33.73 29.32 8.50 47.46 74.00 -26.54 Peak HORIZON 6474.00 34.35 35.76 29.78 9.93 50.26 74.00 -23.74 Peak HORIZON 8004.00 34.21 36.69 31.13 11.13 50.90 74.00 -23.76 Peak HORIZON 9585.00 34.09 36.49 32.71 12.37 50.24 74.00 -23.76 Peak HORIZON 11319.00 33.50 37.09 34.38 13.54 49.75 74.00 -24.25 Peak HORIZON 4111.00 34.63 33.49 29.06 7.71 46.77 74.00 -22.54 Peak VERTIC 7409.00 34.93 36.53 30.67 10.78 51.57 <th>ITAL ITAL ITAL ITAL ITAL</th>	ITAL ITAL ITAL ITAL ITAL
(dBμV) (dB/m) (dB) (dB) (dBμV/m) V/m GFSK Tx mode 2402MHz	ITAL ITAL ITAL ITAL ITAL
GFSK Tx mode 2402MHz 4825.00 34.55 33.73 29.32 8.50 47.46 74.00 -26.54 Peak HORIZON 6474.00 34.35 35.76 29.78 9.93 50.26 74.00 -23.74 Peak HORIZON 8004.00 34.21 36.69 31.13 11.13 50.90 74.00 -23.10 Peak HORIZON 9585.00 34.09 36.49 32.71 12.37 50.24 74.00 -23.76 Peak HORIZON 11319.00 33.50 37.09 34.38 13.54 49.75 74.00 -24.25 Peak HORIZON 12866.00 33.77 38.67 35.64 14.66 51.46 74.00 -22.54 Peak HORIZON 4111.00 34.63 33.49 29.06 7.71 46.77 74.00 -27.23 Peak VERTIC 6576.00 33.58 35.86 29.97 10.01 49.48 74.00 -24.52 <t< td=""><td>ITAL ITAL ITAL ITAL ITAL</td></t<>	ITAL ITAL ITAL ITAL ITAL
4825.00 34.55 33.73 29.32 8.50 47.46 74.00 -26.54 Peak HORIZON 6474.00 34.35 35.76 29.78 9.93 50.26 74.00 -23.74 Peak HORIZON 8004.00 34.21 36.69 31.13 11.13 50.90 74.00 -23.10 Peak HORIZON 9585.00 34.09 36.49 32.71 12.37 50.24 74.00 -23.76 Peak HORIZON 11319.00 33.50 37.09 34.38 13.54 49.75 74.00 -24.25 Peak HORIZON 12866.00 33.77 38.67 35.64 14.66 51.46 74.00 -22.54 Peak HORIZON 4111.00 34.63 33.49 29.06 7.71 46.77 74.00 -27.23 Peak VERTIC 6576.00 33.58 35.86 29.97 10.01 49.48 74.00 -24.52 Peak VERTIC 74	ITAL ITAL ITAL ITAL ITAL
6474.00 34.35 35.76 29.78 9.93 50.26 74.00 -23.74 Peak HORIZON 8004.00 34.21 36.69 31.13 11.13 50.90 74.00 -23.10 Peak HORIZON 9585.00 34.09 36.49 32.71 12.37 50.24 74.00 -23.76 Peak HORIZON 11319.00 33.50 37.09 34.38 13.54 49.75 74.00 -24.25 Peak HORIZON 12866.00 33.77 38.67 35.64 14.66 51.46 74.00 -22.54 Peak HORIZON 4111.00 34.63 33.49 29.06 7.71 46.77 74.00 -22.54 Peak VERTIO 6576.00 33.58 35.86 29.97 10.01 49.48 74.00 -24.52 Peak VERTIO 7409.00 34.93 36.53 30.67 10.78 51.57 74.00 -22.43 Peak VERTIO 94	ITAL ITAL ITAL ITAL ITAL
8004.00 34.21 36.69 31.13 11.13 50.90 74.00 -23.10 Peak HORIZON 9585.00 34.09 36.49 32.71 12.37 50.24 74.00 -23.76 Peak HORIZON 11319.00 33.50 37.09 34.38 13.54 49.75 74.00 -24.25 Peak HORIZON 12866.00 33.77 38.67 35.64 14.66 51.46 74.00 -22.54 Peak HORIZON 4111.00 34.63 33.49 29.06 7.71 46.77 74.00 -27.23 Peak VERTIO 6576.00 33.58 35.86 29.97 10.01 49.48 74.00 -24.52 Peak VERTIO 7409.00 34.93 36.53 30.67 10.78 51.57 74.00 -22.43 Peak VERTIO 9415.00 33.70 36.58 32.57 12.26 49.97 74.00 -24.26 Peak VERTIO 11	ITAL ITAL ITAL ITAL
9585.00 34.09 36.49 32.71 12.37 50.24 74.00 -23.76 Peak HORIZON 11319.00 33.50 37.09 34.38 13.54 49.75 74.00 -24.25 Peak HORIZON 12866.00 33.77 38.67 35.64 14.66 51.46 74.00 -22.54 Peak HORIZON 4111.00 34.63 33.49 29.06 7.71 46.77 74.00 -27.23 Peak VERTIO 6576.00 33.58 35.86 29.97 10.01 49.48 74.00 -24.52 Peak VERTIO 7409.00 34.93 36.53 30.67 10.78 51.57 74.00 -22.43 Peak VERTIO 9415.00 33.70 36.58 32.57 12.26 49.97 74.00 -24.03 Peak VERTIO 11166.00 33.00 37.43 34.21 13.52 49.74 74.00 -24.26 Peak VERTIO	ITAL ITAL ITAL
11319.00 33.50 37.09 34.38 13.54 49.75 74.00 -24.25 Peak HORIZON 12866.00 33.77 38.67 35.64 14.66 51.46 74.00 -22.54 Peak HORIZON 4111.00 34.63 33.49 29.06 7.71 46.77 74.00 -27.23 Peak VERTIC 6576.00 33.58 35.86 29.97 10.01 49.48 74.00 -24.52 Peak VERTIC 7409.00 34.93 36.53 30.67 10.78 51.57 74.00 -22.43 Peak VERTIC 9415.00 33.70 36.58 32.57 12.26 49.97 74.00 -24.26 Peak VERTIC 11166.00 33.00 37.43 34.21 13.52 49.74 74.00 -24.26 Peak VERTIC	ITAL ITAL AL
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4111.00 34.63 33.49 29.06 7.71 46.77 74.00 -27.23 Peak VERTICE 6576.00 33.58 35.86 29.97 10.01 49.48 74.00 -24.52 Peak VERTICE 7409.00 34.93 36.53 30.67 10.78 51.57 74.00 -22.43 Peak VERTICE 9415.00 33.70 36.58 32.57 12.26 49.97 74.00 -24.03 Peak VERTICE 11166.00 33.00 37.43 34.21 13.52 49.74 74.00 -24.26 Peak VERTICE	AL
6576.00 33.58 35.86 29.97 10.01 49.48 74.00 -24.52 Peak VERTICE 7409.00 34.93 36.53 30.67 10.78 51.57 74.00 -22.43 Peak VERTICE 9415.00 33.70 36.58 32.57 12.26 49.97 74.00 -24.03 Peak VERTICE 11166.00 33.00 37.43 34.21 13.52 49.74 74.00 -24.26 Peak VERTICE	
7409.00 34.93 36.53 30.67 10.78 51.57 74.00 -22.43 Peak VERTIC 9415.00 33.70 36.58 32.57 12.26 49.97 74.00 -24.03 Peak VERTIC 11166.00 33.00 37.43 34.21 13.52 49.74 74.00 -24.26 Peak VERTIC	AL
9415.00 33.70 36.58 32.57 12.26 49.97 74.00 -24.03 Peak VERTICE 11166.00 33.00 37.43 34.21 13.52 49.74 74.00 -24.26 Peak VERTICE	
11166.00 33.00 37.43 34.21 13.52 49.74 74.00 -24.26 Peak VERTIC	AL
	AL
11065 00 22 11 27 54 24 79 14 19 50 05 74 00 22 05 Peak VERTIC	AL
11965.00 33.11 37.54 34.78 14.18 50.05 74.00 -23.95 Peak VERTIC	AL
GFSK Tx mode 2440MHz	
4009.00 34.50 33.41 29.04 7.61 46.48 74.00 -27.52 Peak HORIZON	ITAL
4944.00 34.00 33.71 29.34 8.63 47.00 74.00 -27.00 Peak HORIZON	ITAL
6355.00 35.00 35.57 29.54 9.87 50.90 74.00 -23.10 Peak HORIZON	ITAL
7800.00 34.71 36.66 31.04 11.02 51.35 74.00 -22.65 Peak HORIZON	ITAL
9891.00 34.26 36.79 32.88 12.42 50.59 74.00 -23.41 Peak HORIZON	ITAL
12050.00 34.02 37.67 34.82 14.26 51.13 74.00 -22.87 Peak HORIZON	ITAL
4944.00 34.08 33.71 29.34 8.63 47.08 74.00 -26.92 Peak VERTIC	AL
6474.00 33.12 35.76 29.78 9.93 49.03 74.00 -24.97 Peak VERTIC	AL
8021.00 34.82 36.64 31.17 11.16 51.45 74.00 -22.55 Peak VERTIC	AL
9364.00 34.21 36.69 32.52 12.22 50.60 74.00 -23.40 Peak VERTIC	AL
11914.00 32.04 37.45 34.77 14.11 48.83 74.00 -25.17 Peak VERTIC	AL
13036.00 33.62 38.84 35.67 14.68 51.47 74.00 -22.53 Peak VERTIC	AL
GFSK Tx mode 2480MHz	
4009.00 34.56 33.41 29.04 7.61 46.54 74.00 -27.46 Peak HORIZON	ITAL
5454.00 33.07 34.61 29.28 9.14 47.54 74.00 -26.46 Peak HORIZON	ITAL
7001.00 34.34 36.20 30.39 10.44 50.59 74.00 -23.41 Peak HORIZON	ITAL
9075.00 33.82 37.33 32.35 11.89 50.69 74.00 -23.31 Peak HORIZON	ITAL
10945.00 32.54 37.65 33.80 13.39 49.78 74.00 -24.22 Peak HORIZON	ITAL
13240.00 34.60 39.04 35.50 14.73 52.87 74.00 -21.13 Peak HORIZON	ITAL
4060.00 35.32 33.45 29.05 7.67 47.39 74.00 -26.61 Peak VERTIC	AL
6304.00 32.66 35.49 29.49 9.84 48.50 74.00 -25.50 Peak VERTIC	AL
7511.00 33.90 36.60 30.78 10.87 50.59 74.00 -23.41 Peak VERTIC	AL
9636.00 33.45 36.54 32.75 12.38 49.62 74.00 -24.38 Peak VERTIC	AL
10775.00 32.86 37.18 33.59 13.14 49.59 74.00 -24.41 Peak VERTIC	AL
12526.00 31.97 38.33 35.26 14.64 49.68 74.00 -24.32 Peak VERTIC	
Result: Pass	AL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

^{2:} For emissions above 1GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

9. Band Edge Compliance

9.1. Block diagram of test setup



9.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz and 5725MHz to 5850MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

9.3. Test Procedure

Same with clause 8.3 except change investigated frequency range from 2310MHz to 2415MHz and 2475MHz to 2500MHz.

Remark: All restriction band have been tested, and only the worse case is shown in report.

9.4. Test result

PASS. (See below detailed test result)

: DDT 3m Chamber 1#

TR-4-E-009 Radiated Emission Test Result

D:\2017 RE1# Report Data\Q17080804-08O\RF-FCC IC

1G-18G.EM6

Test Date : 2017-09-06 Tested By : Sunny

EUT : Roadie 2 Model Number : RD200

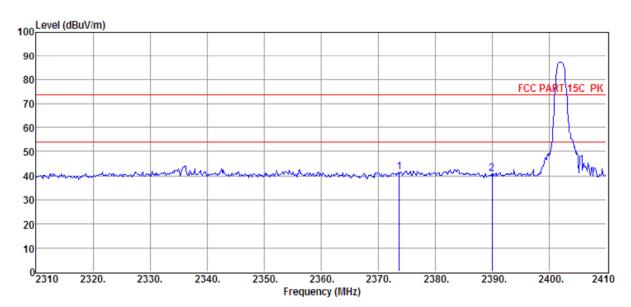
Power Supply : AC 120V/60Hz Test Mode : TX mode 2402MHz

Condition : Temp:24.5'C,Humi:55%, Press:100.1kPa : Antenna/Distance : 2016 HF907/3m/HORIZONTAL

Memo :

Test Site

Data: 1



Item	Freq.	Read Level	Antenna Factor	PRM Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	(dBµV/m)	(dBµV/m)	(dB)		
1	2373.70	35.36	29.71	29.39	6.01	41.69	74.00	-32.31	Peak	HORIZONTAL
2	2390.00	34.57	29.78	29.42	6.03	40.96	74.00	-33.04	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

Test Site : DDT 3m Chamber 1# D:\2017 RE1# Report Data\Q17080804-080\RF-FCC IC

1G-18G.EM6

Test Date : 2017-09-06 Tested By : Sunny

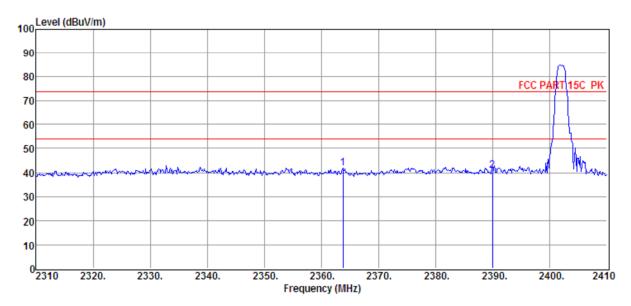
EUT : Roadie 2 Model Number : RD200

Power Supply : AC 120V/60Hz Test Mode : TX mode 2402MHz

Condition : Temp:24.5'C,Humi:55%, Press:100.1kPa : 2016 HF907/3m/VERTICAL

Memo :

Data: 2



Item	Freq.	Read Level	Antenna Factor	PRM Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	(dBµV/m)	(dBµV/m)	(dB)		
1	2363.80	35.56	29.67	29.35	5.96	41.84	74.00	-32.16	Peak	VERTICAL
2	2390.00	34.42	29.78	29.42	6.03	40.81	74.00	-33.19	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

: DDT 3m Chamber 1# D:\2017 RE1# Report Data\Q17080804-080\RF-FCC IC

1G-18G.EM6

Test Date : 2017-09-06 Tested By : Sunny

EUT : Roadie 2 Model Number : RD200

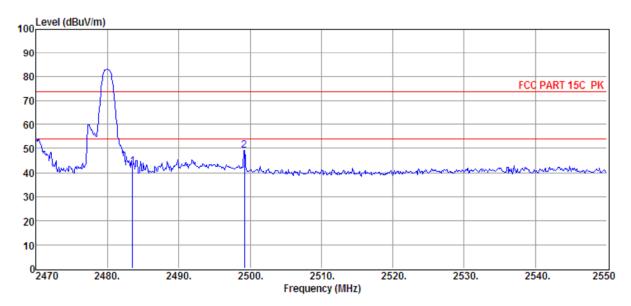
Power Supply : AC 120V/60Hz Test Mode : TX mode 2480MHz

Condition : Temp:24.5'C,Humi:55%, Press:100.1kPa : 2016 HF907/3m/VERTICAL

Memo :

Test Site

Data: 9



Item	Freq.	Read Level	Antenna Factor	PRM Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	(dBµV/m)	(dBµV/m)	(dB)		
1	2483.50	36.07	30.14	29.71	6.13	42.63	74.00	-31.37	Peak	VERTICAL
2	2499.20	42.51	30.20	29.75	6.17	49.13	74.00	-24.87	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

: DDT 3m Chamber 1# D:\2017 RE1# Report Data\Q17080804-080\RF-FCC IC

1G-18G.EM6

Test Date : 2017-09-06 Tested By : Sunny

EUT : Roadie 2 Model Number : RD200

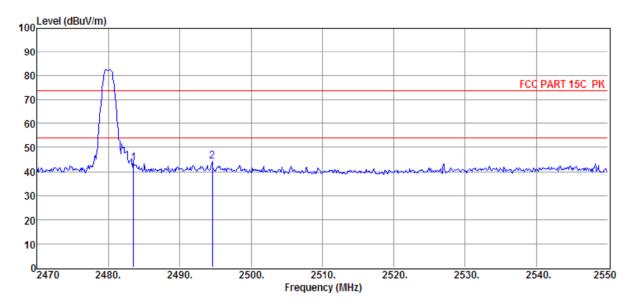
Power Supply : AC 120V/60Hz Test Mode : TX mode 2480MHz

Condition : Temp:24.5'C,Humi:55%, Press:100.1kPa : Antenna/Distance : 2016 HF907/3m/HORIZONTAL

Memo :

Test Site

Data: 10



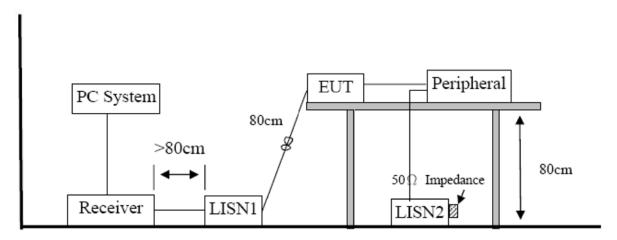
Item	Freq.	Read Level	Antenna Factor	PRM Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	(dBµV/m)	(dBµV/m)	(dB)		
1	2483.50	37.06	30.14	29.71	6.13	43.62	74.00	-30.38	Peak	HORIZONTAL
2	2494.56	37.59	30.18	29.73	6.17	44.21	74.00	-29.79	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

10. Power Line Conducted Emission

10.1. Block diagram of test setup



10.2. Power Line Conducted Emission Limits

Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

10.3. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

Report No.: DDT-RQ17080804-08E6

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 KHz.

10.4. Test Result

PASS. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: "----" means Peak detection; "----" means Average detection

Note3:Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worst case (AC 120V/60Hz).

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room E:\2017 CE report data\Q17080804-080\CE.EM6

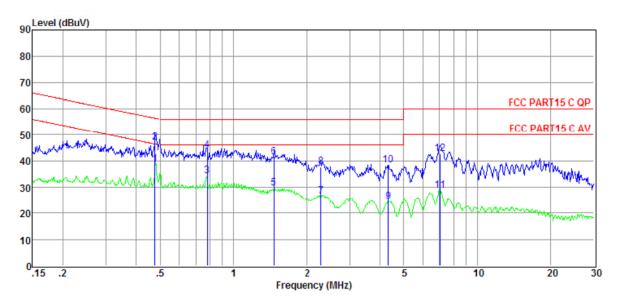
Test Date : 2017-08-30 Tested By : Xian

EUT : Roadie 2 Model Number : RD200

Power Supply : AC 120V/60Hz Test Mode : TX mode

Memo :

Data: 18



Item	Freq.	Read	LISN	Cable	Pulse	Result	Limit	Over	Detector	Phase
		Level	Factor	Loss	Limiter	Level	Line	Limit		
					Factor					
(Mark)	(MHz)	(dBµV)	(dB)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)		
1	0.48	19.26	9.61	0.02	9.86	38.75	46.41	-7.66	Average	NEUTRAL
2	0.48	27.61	9.61	0.02	9.86	47.10	56.41	-9.31	QP	NEUTRAL
3	0.78	14.88	9.61	0.03	9.86	34.38	46.00	-11.62	Average	NEUTRAL
4	0.78	24.41	9.61	0.03	9.86	43.91	56.00	-12.09	QP	NEUTRAL
5	1.46	10.24	9.62	0.03	9.86	29.75	46.00	-16.25	Average	NEUTRAL
6	1.46	22.04	9.62	0.03	9.86	41.55	56.00	-14.45	QP	NEUTRAL
7	2.29	6.97	9.63	0.04	9.87	26.51	46.00	-19.49	Average	NEUTRAL
8	2.29	18.20	9.63	0.04	9.87	37.74	56.00	-18.26	QP	NEUTRAL
9	4.32	4.86	9.65	0.06	9.88	24.45	46.00	-21.55	Average	NEUTRAL
10	4.32	18.64	9.65	0.06	9.88	38.23	56.00	-17.77	QP	NEUTRAL
11	7.03	9.09	9.69	0.09	9.89	28.76	50.00	-21.24	Average	NEUTRAL
12	7.03	22.92	9.69	0.09	9.89	42.59	60.00	-17.41	QP	NEUTRAL

Note: 1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.

- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz-150 kHz), 9 kHz (150 kHz-30 MHz).
- 4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

E:\2017 CE report data\Q17080804-08O\CE.EM6 **Test Site** : DDT 1# Shield Room

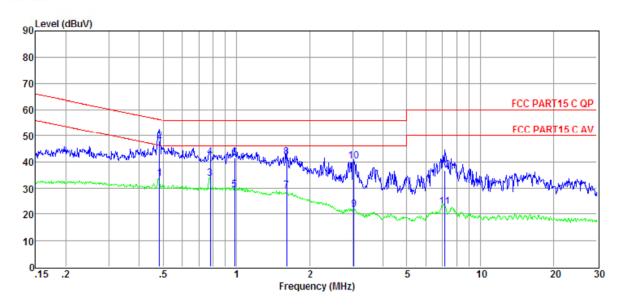
Test Date : 2017-08-30 **Tested By** : Xian EUT : Roadie 2 **Model Number** : RD200 **Power Supply** : AC 120V/60Hz **Test Mode** : TX mode

Temp:24.5'C,Humi:55%, Condition

LISN : 2016 ENV216/LINE Press:100.1kPa

Memo

Data: 20



Item	Freq.	Read	LISN	Cable	Pulse	Result	Limit	Over	Detector	Phase
		Level	Factor	Loss	Limiter	Level	Line	Limit		
					Factor					
(Mark)	(MHz)	(dBµV)	(dB)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)		
1	0.48	14.24	9.61	0.02	9.86	33.73	46.27	-12.54	Average	LINE
2	0.48	28.52	9.61	0.02	9.86	48.01	56.27	-8.26	QP	LINE
3	0.78	14.22	9.61	0.03	9.86	33.72	46.00	-12.28	Average	LINE
4	0.78	22.28	9.61	0.03	9.86	41.78	56.00	-14.22	QP	LINE
5	0.98	9.83	9.61	0.03	9.86	29.33	46.00	-16.67	Average	LINE
6	0.98	22.01	9.61	0.03	9.86	41.51	56.00	-14.49	QP	LINE
7	1.60	9.57	9.62	0.04	9.86	29.09	46.00	-16.91	Average	LINE
8	1.60	22.34	9.62	0.04	9.86	41.86	56.00	-14.14	QP	LINE
9	3.04	1.99	9.64	0.05	9.87	21.55	46.00	-24.45	Average	LINE
10	3.04	20.70	9.64	0.05	9.87	40.26	56.00	-15.74	QP	LINE
11	7.18	3.21	9.69	0.09	9.89	22.88	50.00	-27.12	Average	LINE
12	7.18	17.04	9.69	0.09	9.89	36.71	60.00	-23.29	QP	LINE

Note: 1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.

- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz-150 kHz), 9 kHz (150 kHz-30 MHz).
- 4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

11. Antenna Requirements

11.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

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11.2. Result

The antennas used for this product is integrated antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 1.4dBi

END OF REPORT

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