### 1 CO-LOCATION

### 1.1 Antenna Information

	Antenna General Information											
No	Ant. Cat.	Ant Type	Gair	Cable Langth (m)								
No.	Ant. Cat.	Ant. Type	2.4 GHz	5 GHz	Cable Length (m)							
1	External	OMNI	2	4	-							
2	External	OMNI	2.3	5	0.8							
3	External	OMNI	2.3	3.5	3.1							

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### Note 1:

For 2.4GHz: The EUT was pre-tested Antenna 2 and Antenna 3 because the gain of Antenna 2 and Antenna 3 is the same and higher than Antenna 1 among those Antennas. Next, comparing the cable length of Antenna 2 and Antenna 3, the worst case of Radiation Emission below 1GHz was Antenna 3 and the worst case of Radiation Emission above 1GHz was Antenna 2.For 5GHz: The following test Antenna was referring to 2.4GHz pretested worst case "Antenna 2" for 5GHz final test.

### Note 2:

11a/n/ac only includes 2TX/2RX to emission. IEEE 802.11a/n/ac has the CDD function.

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# 1.2 The Worst Case Measurement Configuration

Th	ne Worst Case Mode for Following Con	formance Tests					
Tests Item	Transmitter Radiated Unwanted Emission	ons					
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.						
	⊠ EUT will be placed in fixed position.						
User Position	EUT will be placed in mobile position shall be performed three orthogonal	on and operating multiple positions. EUT I planes.					
	EUT will be a hand-held or body-wo operating multiple positions. EUT sl planes.						
Operating Mode	Operating Mode Description						
1	Module1 2TX 2437MHz 11g + Module2 2TX 2412MHz 11g (ANT2)						
2	Module1 2TX 5785MHz 11a + Module2 2TX 2437MHz 11g (ANT2)						
3	Module1 2TX 2437MHz 11g + Module2 2	2TX 5785MHz 11a (ANT2)					
4	Module1 2TX 5825MHz 11a + Module2 2	2TX 5785MHz 11a (ANT2)					
5	Module1 2TX 2437MHz 11g + Module2 2	2TX 2412MHz 11g (ANT3)					
6	Module1 2TX 5785MHz 11a + Module2 2	2TX 2437MHz 11g (ANT3)					
7	Module1 2TX 2437MHz 11g + Module2 2	2TX 5785MHz 11a (ANT3)					
8	Module1 2TX 5825MHz 11a + Module2 2	2TX 5785MHz 11a (ANT3)					
For below 1GHz : Oper	ating mode 5~8 was the worst case and it v	was recorded in this test report.					
For above 1GHz: Opera	ating mode 1~4 was the worst case and it v	vas recorded in this test report.					
Modulation Mode	11a, HT20, HT40, VHT20, VHT40, VHT8	30					
	X Plane	Y Plane					
Orthogonal Planes of EUT							
Worst Planes of EUT	V						

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### 1.3 Transmitter Radiated Unwanted Emissions

### 1.3.1 Transmitter Radiated Unwanted Emissions Limit

	Restricted Band	<b>Emissions Limit</b>	
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

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- Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).
- Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Un-restricted Ban	d Emissions Limit
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30

- Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.
- Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

### 1.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

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### 1.3.3 Test Procedures

		Test Method									
	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).  The average emission levels shall be measured in [duty cycle > 98 or duty factor]										
$\boxtimes$	The	average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].									
	For	the transmitter unwanted emissions shall be measured using following options below:									
	$\boxtimes$	Refer as FCC KDB 558074, clause 10.1 for unwanted emissions into non-restricted bands.									
	$\boxtimes$	Refer as FCC KDB 558074, clause 10.2 for unwanted emissions into restricted bands.									
		Refer as FCC KDB 558074, clause 10.2.3.3 and 8.2.1 Option 1 (spectral trace averaging)									
		Refer as FCC KDB 558074, clause 10.2.3.3 and 8.2.1 Option 2 (slow sweep speed).									
		Refer as ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.									
		Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions.									
		Refer as FCC KDB 558074, clause 10.2.3.2 and 8.1.1 measurement procedure peak limit.									
		Refer as FCC KDB 558074, clause 10.2.3.1 measurement procedure Quasi-Peak limit.									
	For	radiated measurement, refer as FCC KDB 558074, clause 10.2.1.									
	$\boxtimes$	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.									
	$\boxtimes$	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.									
	$\boxtimes$	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1 GHz and test distance is 3m.									
	For	conducted and cabinet radiation measurement, refer as FCC KDB 558074, clause 10.2.2.									
		For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains:  Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs.									
		For conducted unwanted emissions into restricted bands (absolute emission limits).  Devices with multiple transmit chains using options given below:  (1) Measure and sum the spectra across the outputs or  (2) Measure and add 10 log(N) dB									

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**Test Setup** 

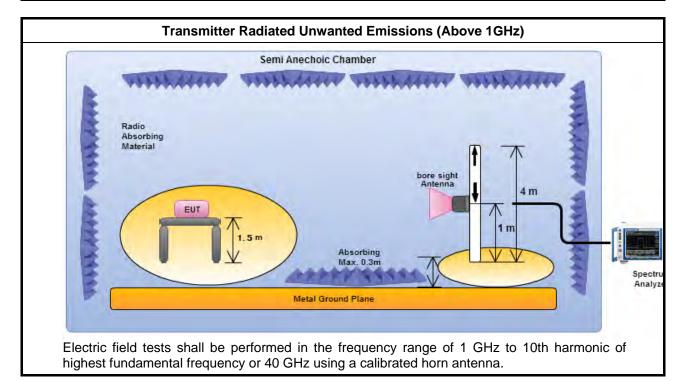
1.3.4

### -----<del>-</del>

# Transmitter Radiated Unwanted Emissions (below 1GHz) Semi Anechoic Chamber Radio Absorbing Material Antenna Antenna Spectrum Analyzer

**Report No.: FR570330** 

Magnetic field tests shall be performed in the frequency range of 9 kHz to 30 MHz using a calibrated loop antenna. Electric field tests shall be performed in the frequency range of 30 MHz to 1000 MHz using a calibrated bi-log antenna.

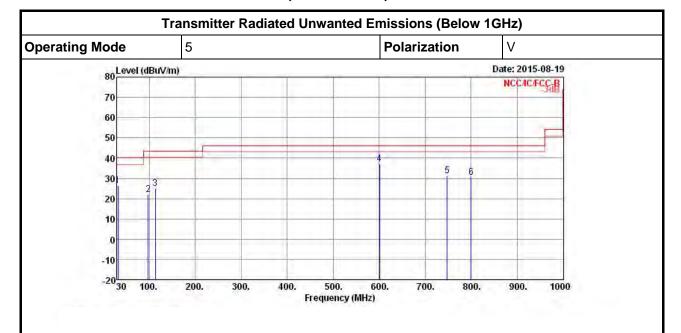


### 1.3.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

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

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## 1.3.6 Results of Radiated Emissions (30MHz~1GHz)



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	Freq	Level	0∨er Limit			Antenna Factor		Preamp Factor	
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	31.940	26.57	-13.43	40.00	36.36	16.90	0.87	27.56	Peak
2	97.900	22.16	-21.34	43.50	37.62	10.32	1.57	27.35	Peak
3	113.420	25.15	-18.35	43.50	38.82	11.90	1.72	27.29	Peak
4	600.360	37.29	-8.71	46.00	42.95	18.18	4.15	27.99	Peak
5	747.800	31.31	-14.69	46.00	35.08	19.43	4.66	27.86	Peak
6	800.180	30.67	-15.33	46.00	34.10	19.44	4.92	27.79	Peak

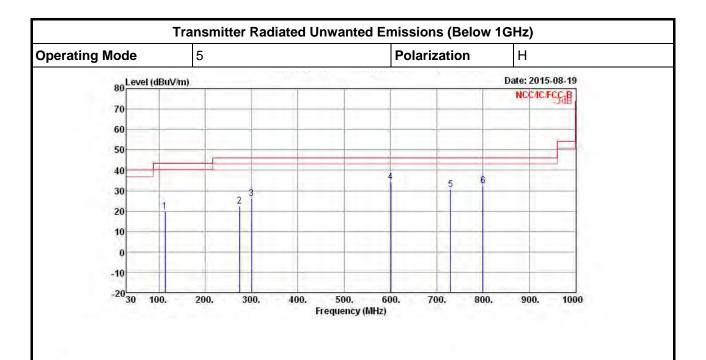
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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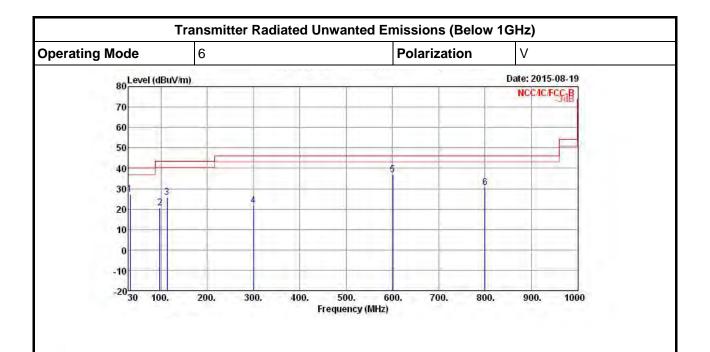
			0ver	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	113.420	19.99	-23.51	43.50	33.66	11.90	1.72	27.29	Peak
2	274.440	22.48	-23.52	46.00	34.04	12.43	2.75	26.74	Peak
3	299.660	26.16	-19.84	46.00	37.05	12.87	2.90	26.66	Peak
4	600.360	34.39	-11.61	46.00	40.05	18.18	4.15	27.99	Peak
5	730.340	30.55	-15.45	46.00	34.59	19.22	4.62	27.88	Peak
6	800.180	32.50	-13.50	46.00	35.93	19.44	4.92	27.79	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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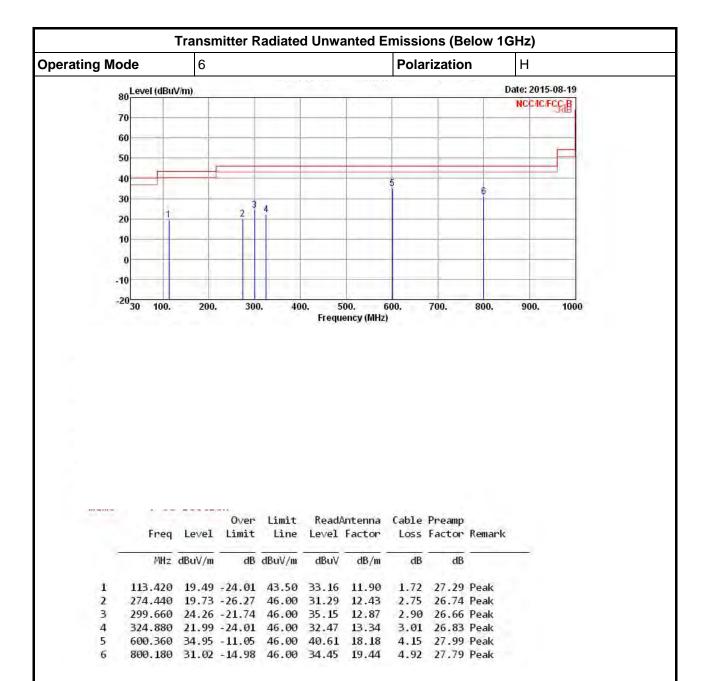


			Over	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	33.880	27.26	-12.74	40.00	38.05	15.85	0.92	27.56	Peak
2	97.900	20.59	-22.91	43.50	36.05	10.32	1.57	27.35	Peak
3	113.420	25.60	-17.90	43.50	39.27	11.90	1.72	27.29	Peak
4	299.660	21.63	-24.37	46.00	32.52	12.87	2.90	26.66	Peak
5	600.360	37.01	-8.99	46.00	42.67	18.18	4.15	27.99	Peak
6	800.180	30.56	-15.44	46.00	33.99	19.44	4.92	27.79	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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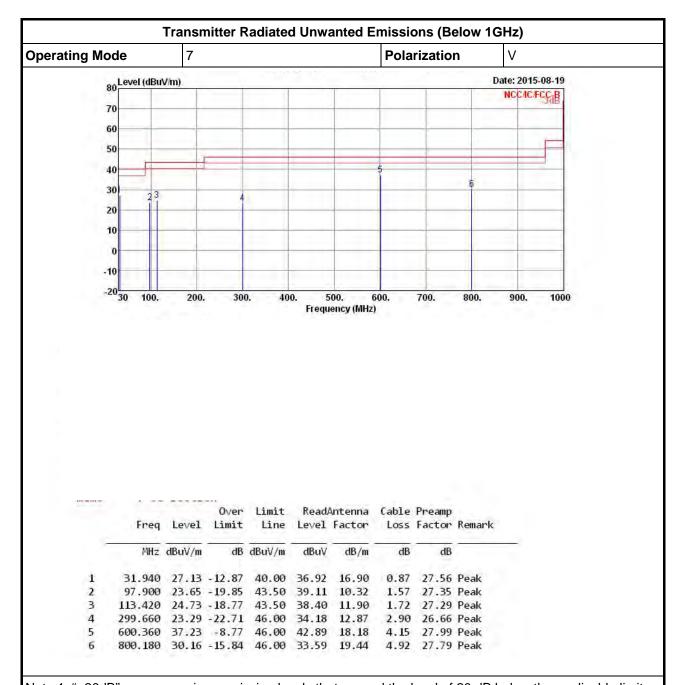


Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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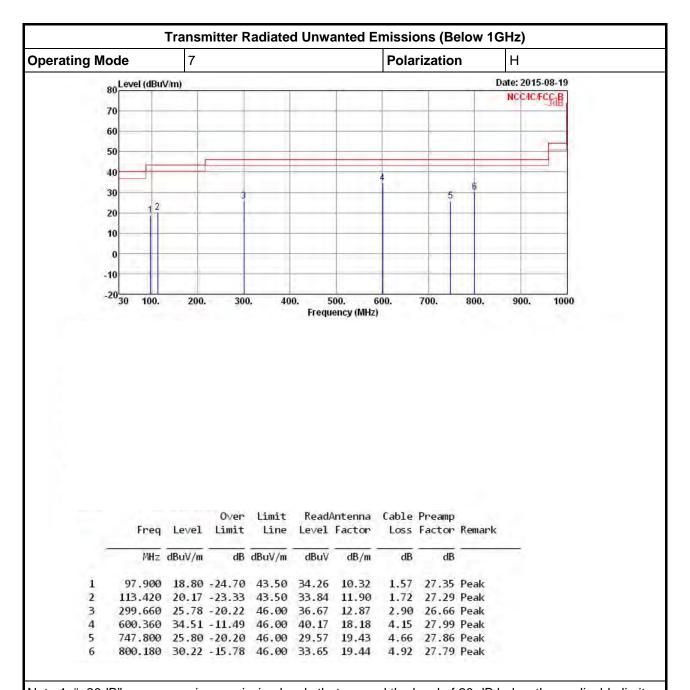


Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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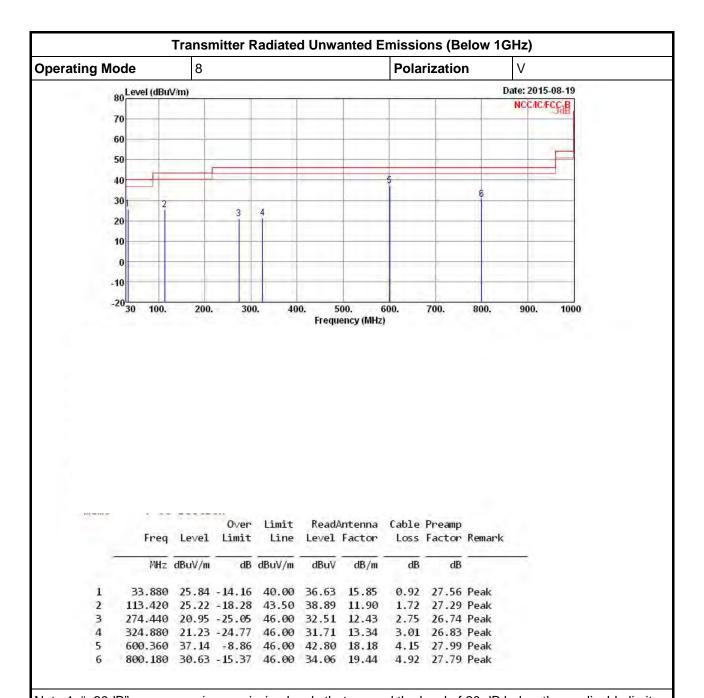


Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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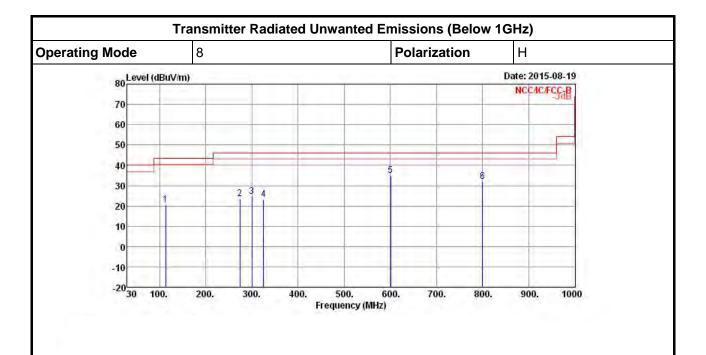
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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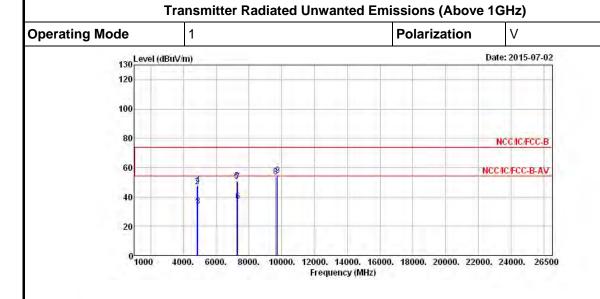
W-2013	Freq	Le∀el	Over Limit			Antenna Factor			Remark
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	113.420	20.43	-23.07	43.50	34.10	11.90	1.72	27.29	Peak
2	274.440	23.47	-22.53	46.00	35.03	12.43	2.75	26.74	Peak
3	299.660	24.75	-21.25	46.00	35.64	12.87	2.90	26.66	Peak
4	324.880	23.27	-22.73	46.00	33.75	13.34	3.01	26.83	Peak
5	600.360	34.84	-11.16	46.00	40.50	18.18	4.15	27.99	Peak
6	800.180	32.02	-13.98	46.00	35.45	19.44	4.92	27.79	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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### 1.3.7 Results for Radiated Emissions (1GHz~10<sup>th</sup> Harmonic)

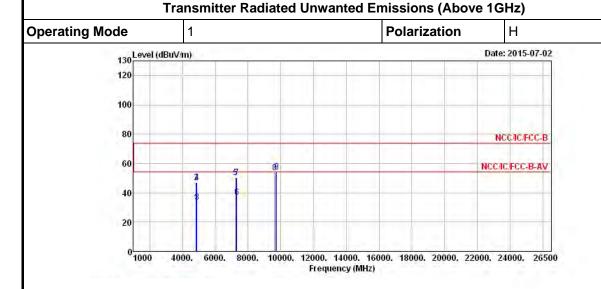


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in Cino		200.02	0ver	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4824.000	33.34	-20.66	54.00	28.09	33.22	4.49	32.46	Average
2	4824.000	47.00	-27.00	74.00	41.75	33.22	4.49	32.46	Peak
3	4874.000	33.67	-20.33	54.00	28.30	33.31	4.51	32.45	Average
4	4874.000	47.98	-26.02	74.00	42.61	33.31	4.51	32.45	Peak
5	7236.000	50.73	-23.27	74.00	41.72	35.93	5.72	32.64	Peak
6	7311.000	36.80	-17.20	54.00	27.61	36.11	5.75	32.67	Average
7	7311.000	50.32	-23.68	74.00	41.13	36.11	5.75	32.67	Peak
8	9648.000	53.64	-20.36	74.00	41.66	38.45	6.67	33.14	Peak
9	9748.000	54.75	-19.25	74.00	42.57	38.61	6.71	33.14	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

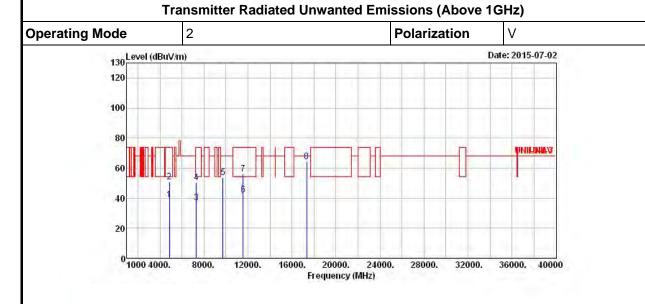
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			Over	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	4824.000	33.34	-20.66	54.00	28.09	33.22	4.49	32.46	Average
2	4824.000	47.08	-26.92	74.00	41.83	33.22	4.49	32.46	Peak
3	4874.000	33.57	-20.43	54.00	28.20	33.31	4.51	32.45	Average
4	4874.000	47.20	-26.80	74.00	41.83	33.31	4.51	32.45	Peak
5	7236.000	50.19	-23.81	74.00	41.18	35.93	5.72	32.64	Peak
6	7311.000	36.89	-17.11	54.00	27.70	36.11	5.75	32.67	Average
7	7311.000	50.30	-23.70	74.00	41.11	36.11	5.75	32.67	Peak
8	9648.000	53.55	-20.45	74.00	41.57	38.45	6.67	33.14	Peak
9	9748.000	54.15	-19.85	74.00	41.97	38.61	6.71	33.14	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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			0ver	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Le∨el	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB	
1	4874.000	38.78	-15.22	54.00	33.41	33.31	4.51	32.45	Average
2	4874.000	50.76	-23.24	74.00	45.39	33.31	4.51	32.45	Peak
3	7311.000	36.80	-17.20	54.00	27.61	36.11	5.75	32.67	Average
4	7311.000	50.52	-23.48	74.00	41.33	36.11	5.75	32.67	Peak
5	9748.000	53.96	-14.24	68.20	41.78	38.61	6.71	33.14	Peak
6	11570.000	42.23	-11.77	54.00	27.76	39.34	7.55	32.42	Average
7	11570.000	56.11	-17.89	74.00	41.64	39.34	7.55	32.42	Peak
8	17355.000	64.27	-3.93	68.20	43.16	43.03	9.54	31.46	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

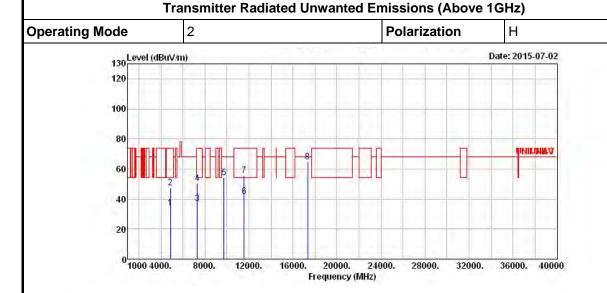
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4874.000	33.87	-20.13	54.00	28.50	33.31	4.51	32.45	Average
2	4874.000	47.48	-26.52	74.00	42.11	33.31	4.51	32.45	Peak
3	7311.000	36.81	-17.19	54.00	27.62	36.11	5.75	32.67	Average
4	7311.000	50.45	-23.55	74.00	41.26	36.11	5.75	32.67	Peak
5	9748.000	53.99	-14.21	68.20	41.81	38.61	6.71	33.14	Peak
6	11570.000	41.64	-12.36	54.00	27.17	39.34	7.55	32.42	Average
7	11570.000	55.58	-18.42	74.00	41.11	39.34	7.55	32.42	Peak
8	17355.000	64.53	-3.67	68.20	43.42	43.03	9.54	31.46	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

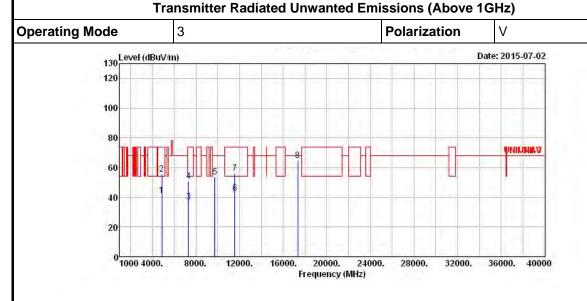
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

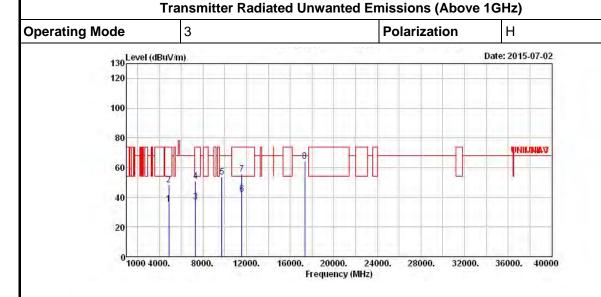
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	Freq	Frea Level		Over Level Limit				Antenna Factor		Preamp Factor	Remark
		JD: A77m		JD, AT/m							
	PINZ	dBuV/m	dБ	dBuV/m	dBuV	dB/m	dB	dB			
1	4874.000	41.40	-12.60	54.00	36.03	33.31	4.51	32.45	Average		
2	4874.000	55.66	-18.34	74.00	50.29	33.31	4.51	32.45	Peak		
3	7311.000	36.86	-17.14	54.00	27.67	36.11	5.75	32.67	Average		
4	7311.000	50.98	-23.02	74.00	41.79	36.11	5.75	32.67	Peak		
5	9748.000	53.83	-14.37	68.20	41.65	38.61	6.71	33.14	Peak		
6	11570.000	42.66	-11.34	54.00	28.19	39.34	7.55	32.42	Average		
7	11570.000	56.15	-17.85	74.00	41.68	39.34	7.55	32.42	Peak		
8	17355.000	64.53	-3.67	68.20	43.42	43.03	9.54	31.46	Peak		

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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	2000		0ver	Limit		Antenna		Preamp	20.00
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4874.000	35.49	-18.51	54.00	30.12	33.31	4.51	32.45	Average
2	4874.000	48.46	-25.54	74.00	43.09	33.31	4.51	32.45	Peak
3	7311.000	36.95	-17.05	54.00	27.76	36.11	5.75	32.67	Average
4	7311.000	50.64	-23.36	74.00	41.45	36.11	5.75	32.67	Peak
5	9748.000	53.92	-14.28	68.20	41.74	38.61	6.71	33.14	Peak
6	11570.000	42.03	-11.97	54.00	27.56	39.34	7.55	32.42	Average
7	11570.000	55.79	-18.21	74.00	41.32	39.34	7.55	32.42	Peak
8	17355.000	64.46	-3.74	68.20	43.35	43.03	9.54	31.46	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

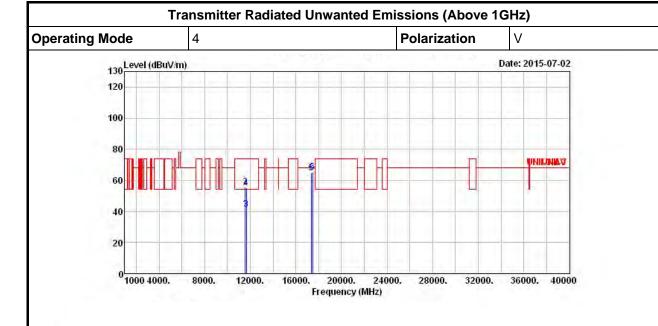
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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	Freq	Level	0∨er Limit	3 1 2 1	ReadAntenna Level Factor			Preamp Factor	Damanle
	rreq	Level	LIMIT	LINE	rever	ractor.	LUSS	ractor	Memar K
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	11570.000	41.97	-12.03	54.00	27.50	39.34	7.55	32.42	Average
2	11570.000	55.83	-18.17	74.00	41.36	39.34	7.55	32.42	Peak
3	11650.000	41.24	-12.76	54.00	26.70	39.38	7.58	32.42	Average
4	11650.000	55.16	-18.84	74.00	40.62	39.38	7.58	32.42	Peak
5	17355.000	64.58	-3.62	68.20	43.47	43.03	9.54	31.46	Peak
6	17475.000	65.40	-2.80	68.20	43.35	43.94	9.58	31.47	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

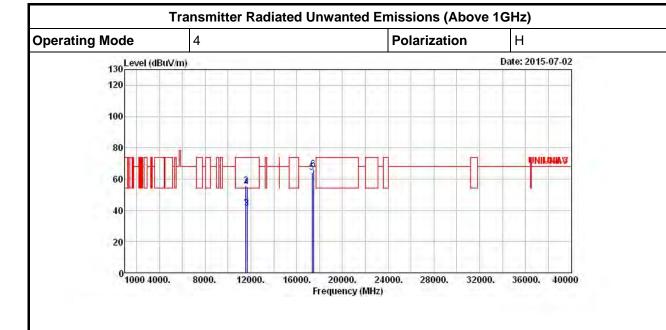
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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N-W-	Paras	1	0ver	Limit		Antenna		Preamp	Discounts
	Freq	Level	Limit	Line	rever	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB	_
1	11570.000	41.57	-12.43	54.00	27.10	39.34	7.55	32.42	Average
2	11570.000	55.59	-18.41	74.00	41.12	39.34	7.55	32.42	Peak
3	11650.000	41.15	-12.85	54.00	26.61	39.38	7.58	32.42	Average
4	11650.000	55.06	-18.94	74.00	40.52	39.38	7.58	32.42	Peak
5	17355.000	64.17	-4.03	68.20	43.06	43.03	9.54	31.46	Peak
6	17475.000	66.10	-2.10	68.20	44.05	43.94	9.58	31.47	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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# 2 TEST EQUIPMENT AND CALIBRATION DATA

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz 3m	Nov. 29, 2014	Radiation Emission
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	May 11, 2015	Radiation Emission
Amplifier	Agilent	8449B	3008A02120	1GHz ~ 26.5GHz	Sep. 01, 2014	Radiation Emission
Spectrum	R&S	FSP40	100004	9kHz ~ 40GHz	Apr. 02, 2015	Radiation Emission
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30MHz ~ 1GHz	Sep. 20, 2014	Radiation Emission
Horn Antenna	AARONIA AG	POWERLOG 70180	05192	1GHz ~ 18GHz	May 01, 2015	Radiation Emission
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	18GHz ~ 40GHz	Jan. 27, 2015	Radiation Emission
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	Nov. 15, 2014	Radiation Emission
RF Cable-high	SUHNER	SUCOFLEX 106	03CH03-HY	1GHz ~ 40GHz	Dec. 12, 2014	Radiation Emission
Turn Table	EM Electronics	EM Electronics	060615	0 ~ 360 degree	N/A	Radiation Emission
Antenna Mast	MF	MF-7802	MF780208179	1 ~ 4 m	N/A	Radiation Emission

**Report No. : FR570330** 

Note: Calibration Interval of instruments listed above is one year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Amplifier	EMC INSTRUMENTS	EMC184045B	980192	18GHz ~ 40GHz	Aug. 25, 2014	Radiation Emission
Loop Antenna	TESEQ	HLA 6120	31244	9 kHz~30 MHz	Feb. 02, 2015	Radiation Emission

Note: Calibration Interval of instruments listed above is two years.

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