



1 CO-LOCATION

1.1 Transmitter Radiated Unwanted Emissions

1.1.1 Transmitter Radiated Unwanted Emissions Limit

Restricted Band Emissions Limit			
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

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 Band 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.

1.1.2 Measuring Instruments

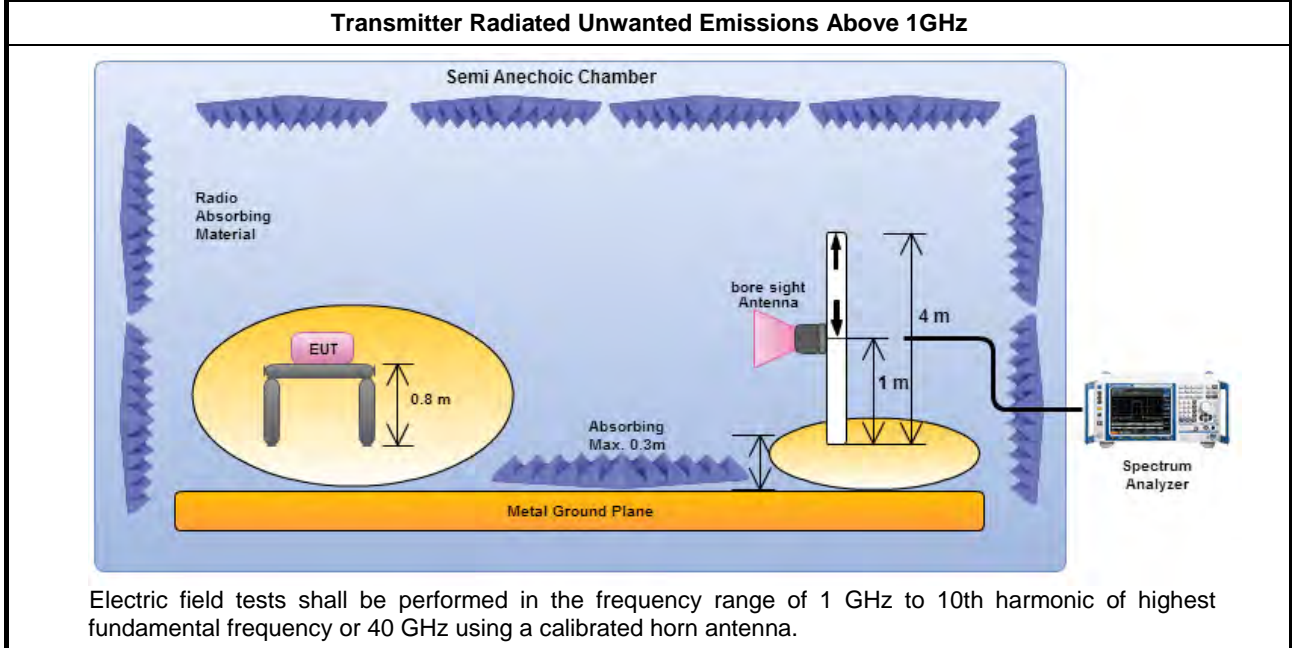
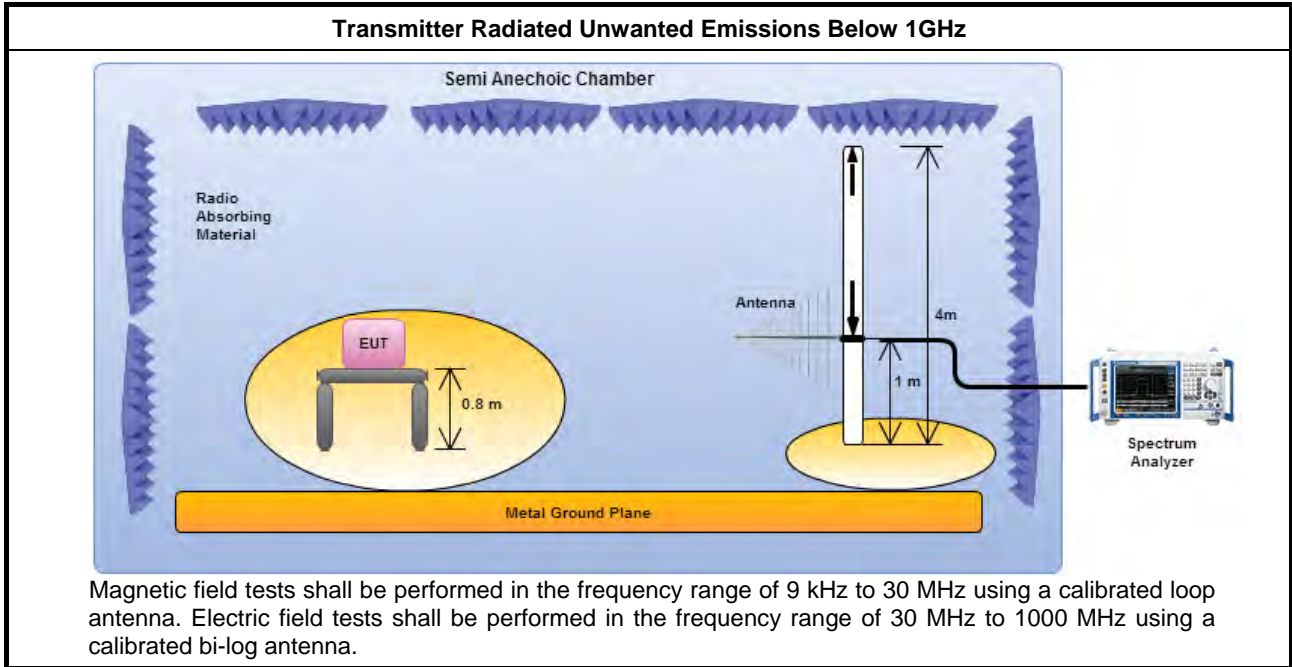
Refer a test equipment and calibration data table in this test report.



1.1.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	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).
<input type="checkbox"/>	Measurements in the frequency range 10 GHz - 18GHz are typically made at a closer distance 1m, because the instrumentation noise floor is typically close to the radiated emission limit.
<input type="checkbox"/>	Measurements in the frequency range above 18 GHz - 25GHz are typically made at a closer distance 0.5m, because the instrumentation noise floor is typically close to the radiated emission limit.
<input checked="" type="checkbox"/>	The average emission levels shall be measured in [duty cycle \geq 98 or duty factor].
<input checked="" type="checkbox"/>	For the transmitter unwanted emissions shall be measured using following options below:
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 10.1 for unwanted emissions into non-restricted bands.
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 10.2 for unwanted emissions into restricted bands.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 10.2.3.3 and 8.2.1 Option 1 (spectral trace averaging)
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 10.2.3.3 and 8.2.1 Option 2 (slow sweep speed).
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW \geq 1/T, where T is pulse time.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 10.2.3.2 and 8.1.1 measurement procedure peak limit.
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 10.2.3.1 measurement procedure Quasi-Peak limit.
<input checked="" type="checkbox"/>	For radiated measurement, refer as FCC KDB 558074, clause 10.2.1.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. For 1 GHz to 5 GHz, test distance is 3m; For 5 GHz to 40 GHz, test distance is 3m.
<input type="checkbox"/>	For conducted and cabinet radiation measurement, refer as FCC KDB 558074, clause 10.2.2.
<input type="checkbox"/>	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.
<input type="checkbox"/>	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

1.1.4 Test Setup



1.1.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

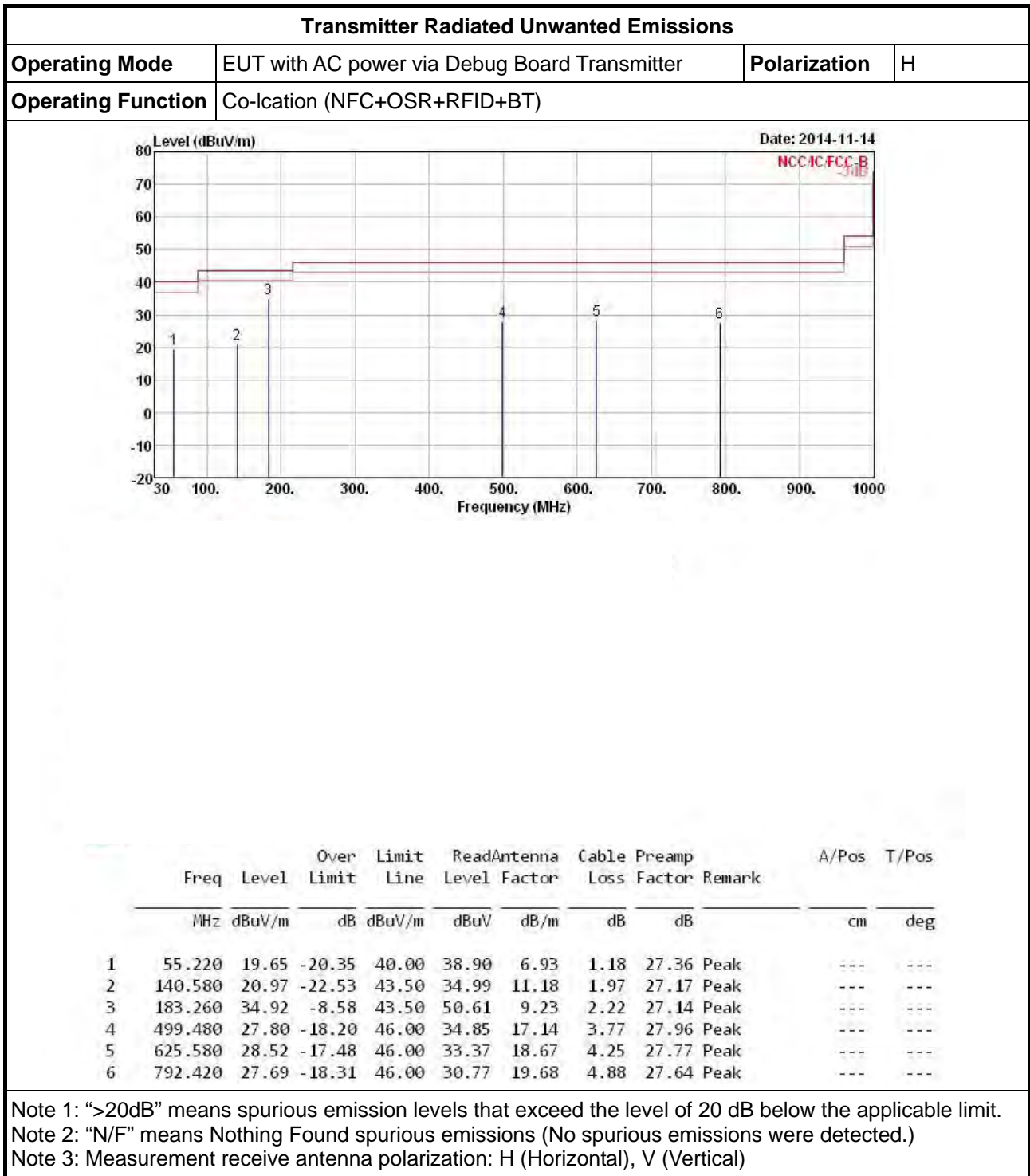
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.



1.1.6 Results of Radiated Emissions (30MHz~1GHz)

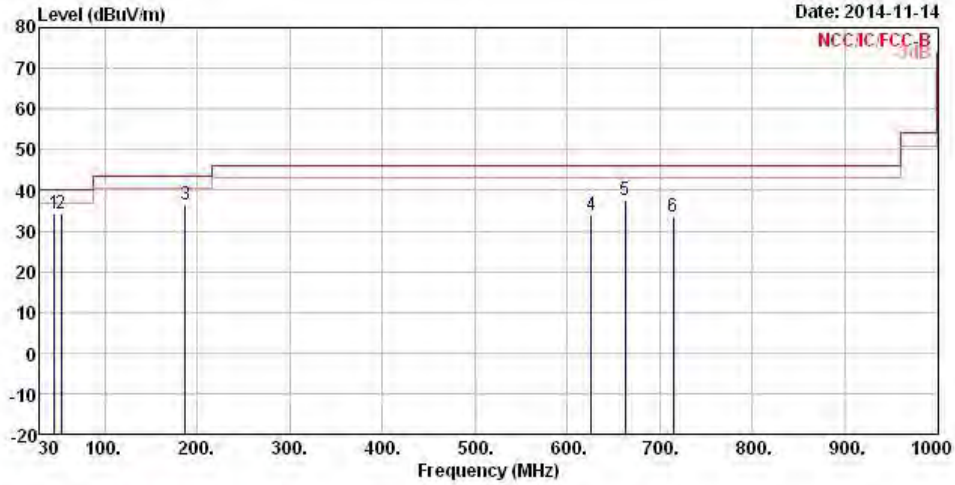
Transmitter Radiated Unwanted Emissions											
Operating Mode	EUT with AC power via Debug Board Transmitter						Polarization	V			
Operating Function	Co-location (NFC+OSR+RFID+BT)										
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	33.880	34.38	-5.62	40.00	44.07	16.67	0.92	27.28	Peak	---	---
2	51.340	32.15	-7.85	40.00	50.27	8.14	1.15	27.41	Peak	---	---
3	183.260	38.10	-5.40	43.50	53.79	9.23	2.22	27.14	Peak	---	---
4	625.580	33.56	-12.44	46.00	38.41	18.67	4.25	27.77	Peak	---	---
5	662.440	38.50	-7.50	46.00	43.10	18.78	4.40	27.78	Peak	---	---
6	714.820	32.86	-13.14	46.00	36.96	19.08	4.59	27.77	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)





Transmitter Radiated Unwanted Emissions			
Operating Mode	EUT with AC power via Debug Board Transmitter	Polarization	V
Operating Function	Co-location (NFC+OSR+RFID+WiFi 2.4GHz)		

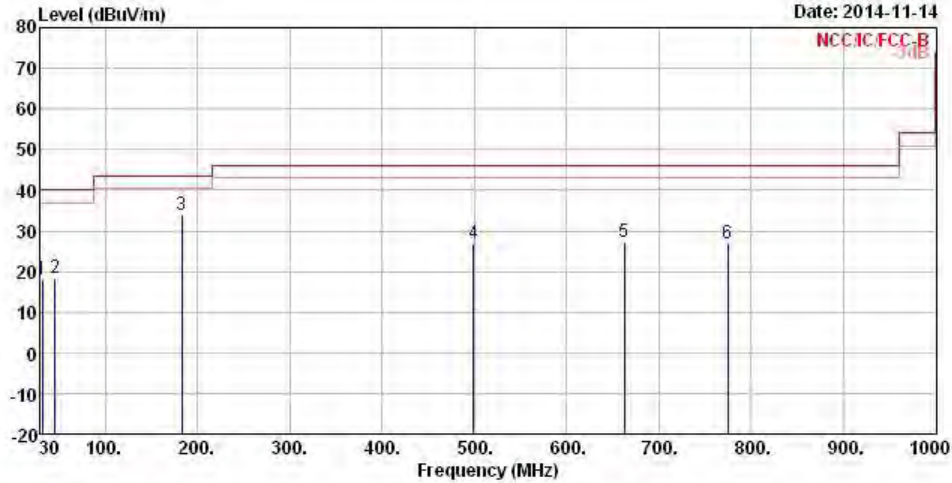


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	45.520	34.42	-5.58	40.00	50.73	9.96	1.09	27.36	Peak	---	---
2	53.280	34.15	-5.85	40.00	52.84	7.53	1.16	27.38	Peak	---	---
3	187.140	36.60	-6.90	43.50	52.36	9.13	2.25	27.14	Peak	---	---
4	625.580	33.80	-12.20	46.00	38.65	18.67	4.25	27.77	Peak	---	---
5	662.440	37.53	-8.47	46.00	42.13	18.78	4.40	27.78	Peak	---	---
6	714.820	33.46	-12.54	46.00	37.56	19.08	4.59	27.77	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)

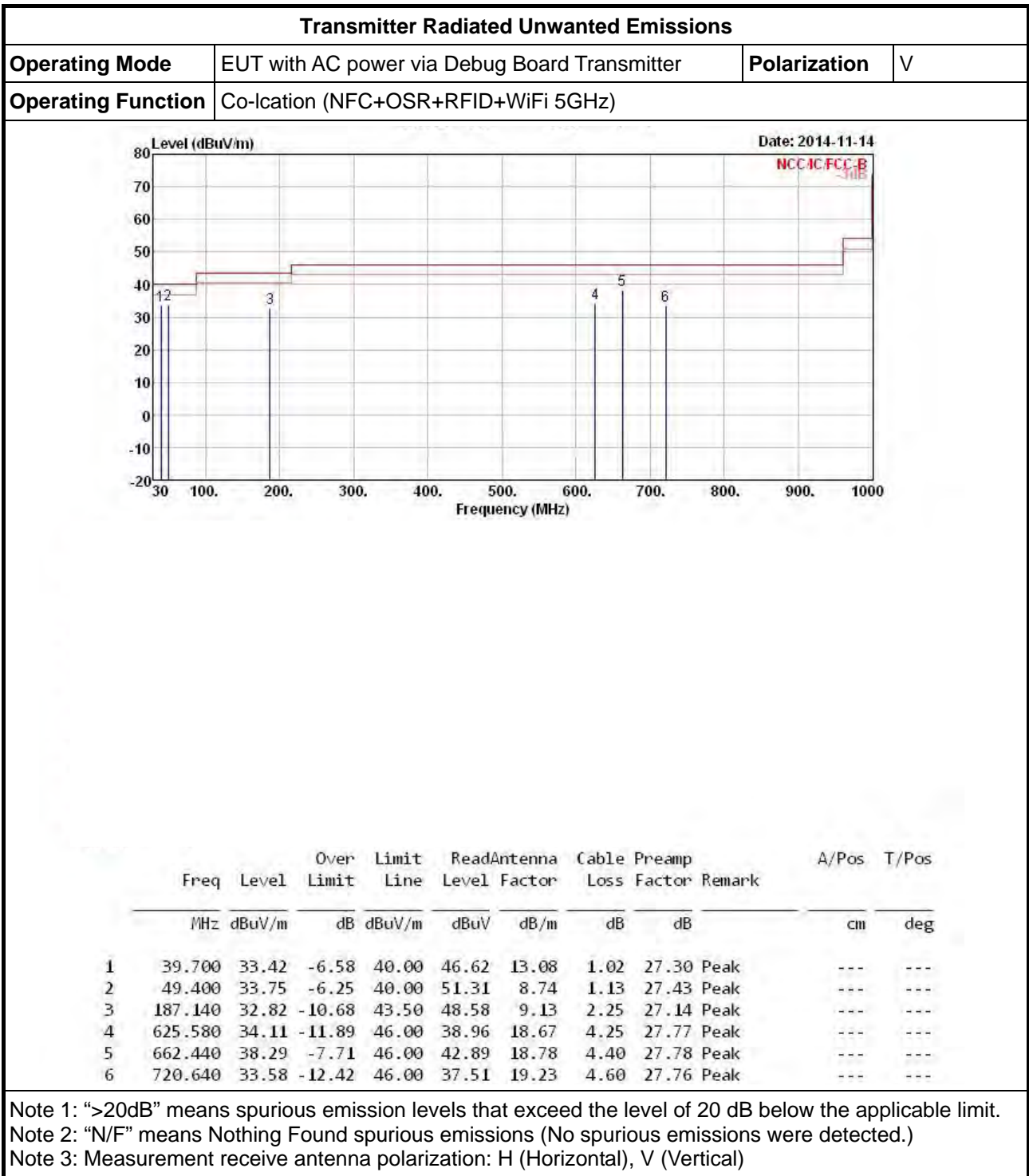


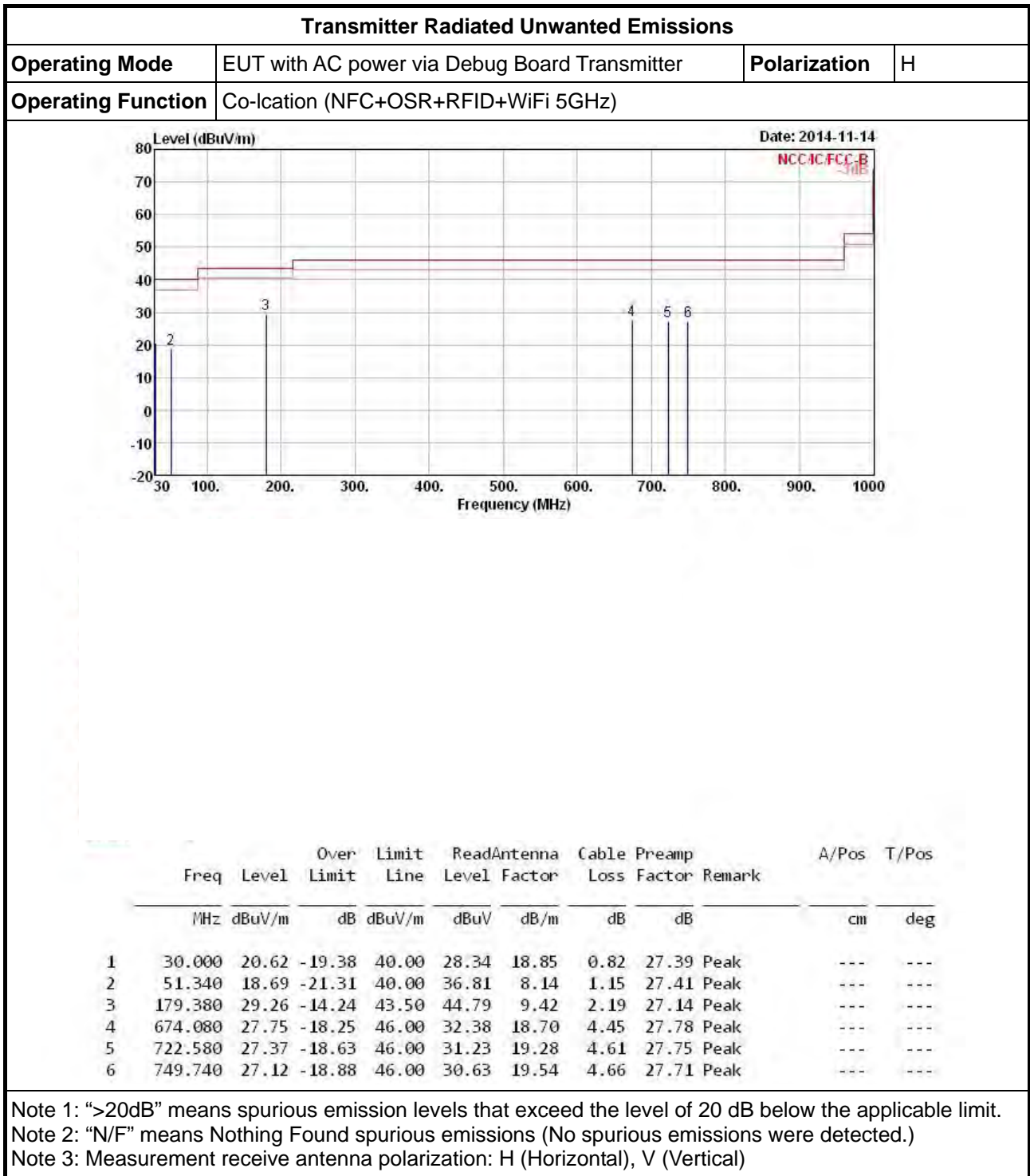
Transmitter Radiated Unwanted Emissions			
Operating Mode	EUT with AC power via Debug Board Transmitter	Polarization	H
Operating Function	Co-Location (NFC+OSR+RFID+WiFi 2.4GHz)		



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	31.940	18.06	-21.94	40.00	26.78	17.76	0.87	27.35	Peak	---	---
2	45.520	18.34	-21.66	40.00	34.65	9.96	1.09	27.36	Peak	---	---
3	183.260	33.88	-9.62	43.50	49.57	9.23	2.22	27.14	Peak	---	---
4	499.480	26.80	-19.20	46.00	33.85	17.14	3.77	27.96	Peak	---	---
5	662.440	27.09	-18.91	46.00	31.69	18.78	4.40	27.78	Peak	---	---
6	774.960	27.04	-18.96	46.00	30.16	19.76	4.79	27.67	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)







1.1.7 Results for Radiated Emissions (1GHz~10th Harmonic)

Transmitter Radiated Unwanted Emissions												
Operating Mode	EUT with AC power via Debug Board Transmitter						Polarization	V				
Operating Function	Co-location (NFC+OSR+RFID+BT)											
<p style="text-align: right;">Date: 2014-11-14</p>												
	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark		A/Pos	T/Pos		
	dB	dBuV/m	dBuV	dB/m	dB	dB			cm	deg		
1	1810.900	50.43	-3.57	54.00	52.73	26.82	3.58	32.70	Average	---	---	
2	1810.900	52.51	-21.49	74.00	54.81	26.82	3.58	32.70	Peak	---	---	
3	2716.350	28.76	-25.24	54.00	27.95	29.29	4.04	32.52	Average	---	---	
4	2716.350	41.86	-32.14	74.00	41.05	29.29	4.04	32.52	Peak	---	---	
5	3621.800	32.58	-21.42	54.00	28.60	31.66	4.85	32.53	Average	---	---	
6	3621.800	46.50	-27.50	74.00	42.52	31.66	4.85	32.53	Peak	---	---	
7	4804.000	18.44	-35.56	54.00	12.00	33.20	5.71	32.47	Average	---	---	
8	4804.000	48.54	-25.46	74.00	42.10	33.20	5.71	32.47	Peak	---	---	
9	7206.000	51.19	-22.81	74.00	40.78	35.84	7.20	32.63	Peak	---	---	
10	9608.000	55.21	-18.79	74.00	41.17	38.37	8.81	33.14	Peak	---	---	

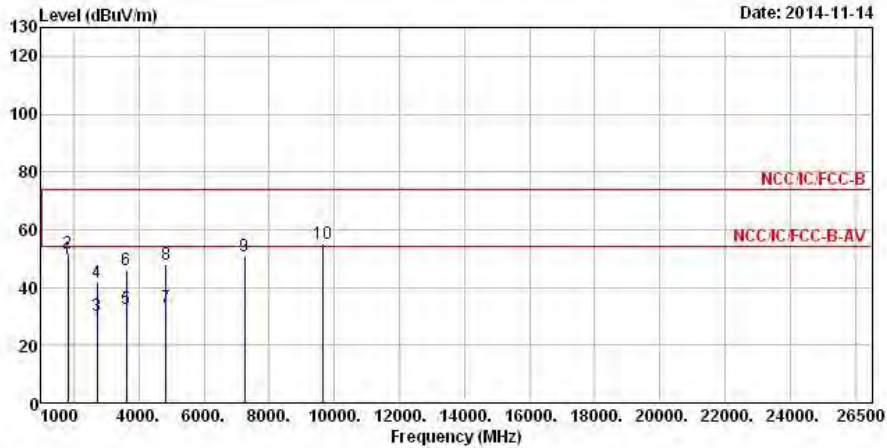
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted 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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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>Limit Line</th> <th>ReadAntenna Level</th> <th>Antenna Factor</th> <th>Cable Loss</th> <th>Preamp Factor</th> <th>Remark</th> <th>A/Pos</th> <th>T/Pos</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th></th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1810.900</td> <td>39.99</td> <td>-14.01</td> <td>54.00</td> <td>42.29</td> <td>26.82</td> <td>3.58</td> <td>32.70</td> <td>Average</td> <td>---</td> <td>---</td> </tr> <tr> <td>2</td> <td>1810.900</td> <td>45.81</td> <td>-28.19</td> <td>74.00</td> <td>48.11</td> <td>26.82</td> <td>3.58</td> <td>32.70</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>3</td> <td>2716.350</td> <td>31.40</td> <td>-22.60</td> <td>54.00</td> <td>30.59</td> <td>29.29</td> <td>4.04</td> <td>32.52</td> <td>Average</td> <td>---</td> <td>---</td> </tr> <tr> <td>4</td> <td>2716.350</td> <td>41.74</td> <td>-32.26</td> <td>74.00</td> <td>40.93</td> <td>29.29</td> <td>4.04</td> <td>32.52</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>5</td> <td>3621.800</td> <td>32.68</td> <td>-21.32</td> <td>54.00</td> <td>28.70</td> <td>31.66</td> <td>4.85</td> <td>32.53</td> <td>Average</td> <td>---</td> <td>---</td> </tr> <tr> <td>6</td> <td>3621.800</td> <td>46.09</td> <td>-27.91</td> <td>74.00</td> <td>42.11</td> <td>31.66</td> <td>4.85</td> <td>32.53</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>7</td> <td>4804.000</td> <td>17.93</td> <td>-36.07</td> <td>54.00</td> <td>11.49</td> <td>33.20</td> <td>5.71</td> <td>32.47</td> <td>Average</td> <td>---</td> <td>---</td> </tr> <tr> <td>8</td> <td>4804.000</td> <td>48.03</td> <td>-25.97</td> <td>74.00</td> <td>41.59</td> <td>33.20</td> <td>5.71</td> <td>32.47</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>9</td> <td>7206.000</td> <td>50.38</td> <td>-23.62</td> <td>74.00</td> <td>39.97</td> <td>35.84</td> <td>7.20</td> <td>32.63</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>10</td> <td>9608.000</td> <td>55.87</td> <td>-18.13</td> <td>74.00</td> <td>41.83</td> <td>38.37</td> <td>8.81</td> <td>33.14</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> </tbody> </table>													Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	A/Pos	T/Pos		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	1	1810.900	39.99	-14.01	54.00	42.29	26.82	3.58	32.70	Average	---	---	2	1810.900	45.81	-28.19	74.00	48.11	26.82	3.58	32.70	Peak	---	---	3	2716.350	31.40	-22.60	54.00	30.59	29.29	4.04	32.52	Average	---	---	4	2716.350	41.74	-32.26	74.00	40.93	29.29	4.04	32.52	Peak	---	---	5	3621.800	32.68	-21.32	54.00	28.70	31.66	4.85	32.53	Average	---	---	6	3621.800	46.09	-27.91	74.00	42.11	31.66	4.85	32.53	Peak	---	---	7	4804.000	17.93	-36.07	54.00	11.49	33.20	5.71	32.47	Average	---	---	8	4804.000	48.03	-25.97	74.00	41.59	33.20	5.71	32.47	Peak	---	---	9	7206.000	50.38	-23.62	74.00	39.97	35.84	7.20	32.63	Peak	---	---	10	9608.000	55.87	-18.13	74.00	41.83	38.37	8.81	33.14	Peak	---	---
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Transmitter Radiated Unwanted Emissions			
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Operating Function	Co-location (NFC+OSR+RFID+WiFi 2.4GHz)		

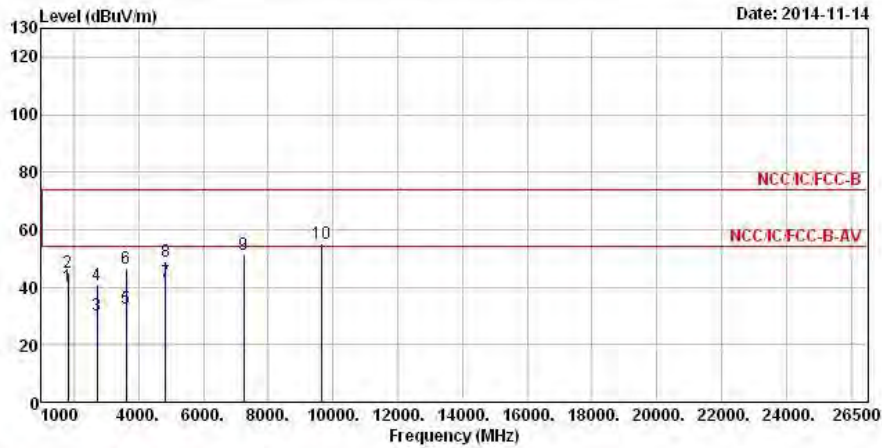


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2	1810.900	51.84	-22.16	74.00	54.14	26.82	3.58	32.70	Peak	---	---
3	2716.350	30.26	-23.74	54.00	29.45	29.29	4.04	32.52	Average	---	---
4	2716.350	41.73	-32.27	74.00	40.92	29.29	4.04	32.52	Peak	---	---
5	3621.800	32.61	-21.39	54.00	28.63	31.66	4.85	32.53	Average	---	---
6	3621.800	45.85	-28.15	74.00	41.87	31.66	4.85	32.53	Peak	---	---
7	4824.000	33.16	-20.84	54.00	26.69	33.22	5.71	32.46	Average	---	---
8	4824.000	47.80	-26.20	74.00	41.33	33.22	5.71	32.46	Peak	---	---
9	7236.000	51.01	-22.99	74.00	40.49	35.93	7.23	32.64	Peak	---	---
10	9648.000	55.29	-18.71	74.00	41.19	38.45	8.79	33.14	Peak	---	---

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Transmitter Radiated Unwanted Emissions			
Operating Mode	EUT with AC power via Debug Board Transmitter	Polarization	H
Operating Function	Co-location (NFC+OSR+RFID+WiFi 2.4GHz)		

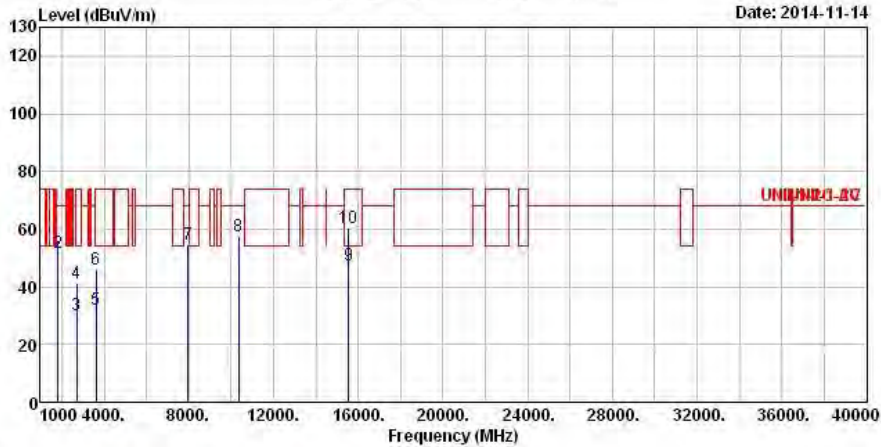


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	1810.900	40.16	-13.84	54.00	42.46	26.82	3.58	32.70	Average	---	---
2	1810.900	45.20	-28.80	74.00	47.50	26.82	3.58	32.70	Peak	---	---
3	2716.350	30.29	-23.71	54.00	29.48	29.29	4.04	32.52	Average	---	---
4	2716.350	41.00	-33.00	74.00	40.19	29.29	4.04	32.52	Peak	---	---
5	3621.800	32.49	-21.51	54.00	28.51	31.66	4.85	32.53	Average	---	---
6	3621.800	46.40	-27.60	74.00	42.42	31.66	4.85	32.53	Peak	---	---
7	4824.000	41.91	-12.09	54.00	35.44	33.22	5.71	32.46	Average	---	---
8	4824.000	49.00	-25.00	74.00	42.53	33.22	5.71	32.46	Peak	---	---
9	7236.000	51.53	-22.47	74.00	41.01	35.93	7.23	32.64	Peak	---	---
10	9648.000	55.08	-18.92	74.00	40.98	38.45	8.79	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.

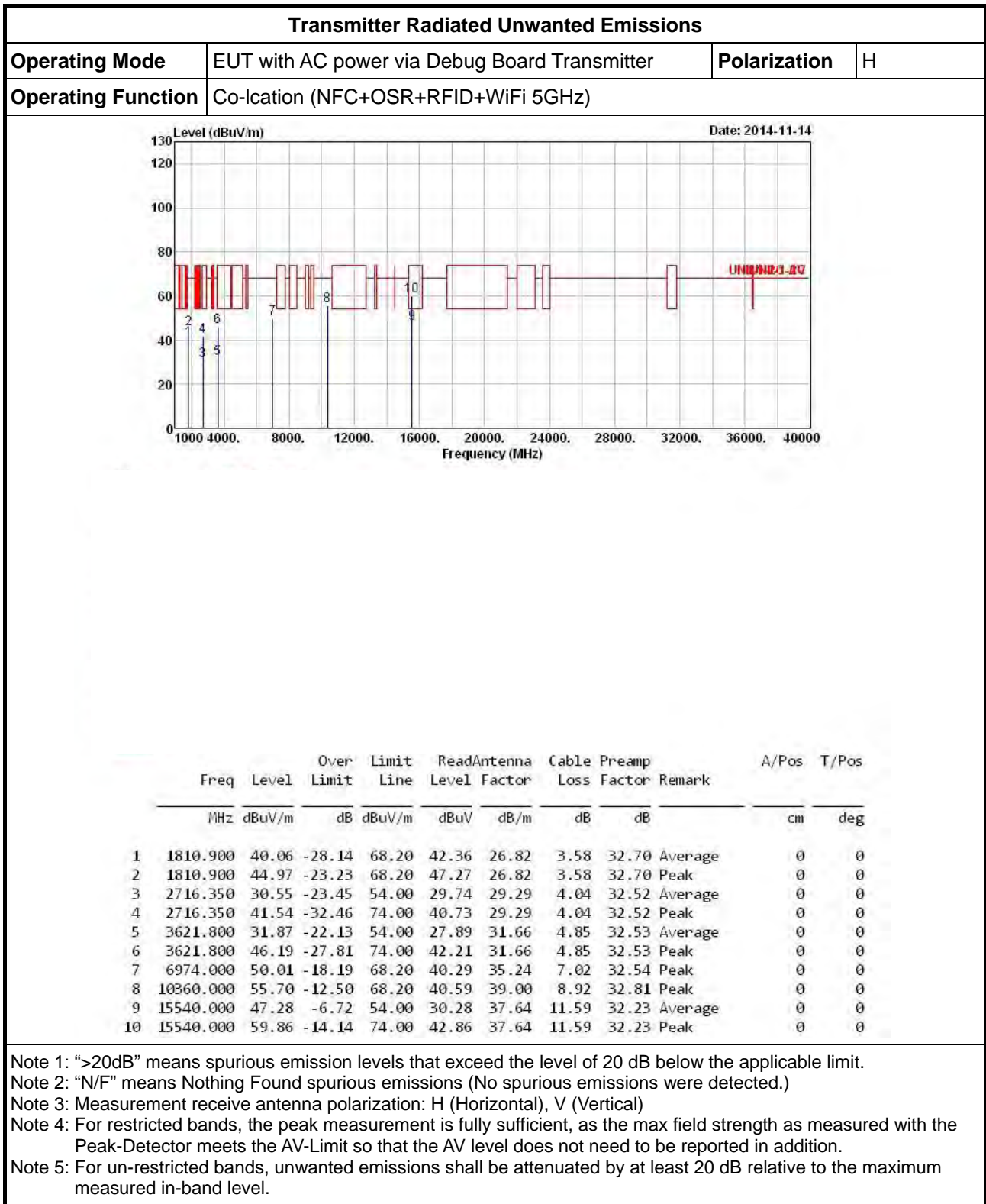


Transmitter Radiated Unwanted Emissions			
Operating Mode	EUT with AC power via Debug Board Transmitter	Polarization	V
Operating Function	Co-location (NFC+OSR+RFID+WiFi 5GHz)		



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	1810.900	49.97	-18.23	68.20	52.27	26.82	3.58	32.70	Average	0	0
2	1810.900	51.61	-16.59	68.20	53.91	26.82	3.58	32.70	Peak	0	0
3	2716.350	30.11	-23.89	54.00	29.30	29.29	4.04	32.52	Average	0	0
4	2716.350	41.26	-32.74	74.00	40.45	29.29	4.04	32.52	Peak	0	0
5	3621.800	32.24	-21.76	54.00	28.26	31.66	4.85	32.53	Average	0	0
6	3621.800	45.87	-28.13	74.00	41.89	31.66	4.85	32.53	Peak	0	0
7	7984.000	54.55	-13.65	68.20	42.07	37.08	8.28	32.88	Peak	0	0
8	10360.000	57.53	-10.67	68.20	42.42	39.00	8.92	32.81	Peak	0	0
9	15540.000	47.33	-6.67	54.00	30.33	37.64	11.59	32.23	Average	0	0
10	15540.000	60.55	-13.45	74.00	43.55	37.64	11.59	32.23	Peak	0	0

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.





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. 30, 2013	Radiation
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	May 05, 2014	Radiation
Amplifier	Agilent	8449B	3008A02120	1GHz ~ 26.5GHz	Sep. 01, 2014	Radiation
Spectrum	R&S	FSP40	100004	9kHz ~ 40GHz	Mar. 27, 2014	Radiation
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30MHz ~ 1GHz	Sep. 20, 2014	Radiation
Horn Antenna	ETS · LINDGREN	3115	6741	1GHz ~ 18GHz	Jun. 11, 2014	Radiation
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz ~ 40GHz	Jan. 10, 2014	Radiation
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	Nov. 16, 2013	Radiation
RF Cable-high	SUHNER	SUCOFLEX 106	03CH03-HY	1GHz ~ 40GHz	Dec. 11, 2013	Radiation
Turn Table	EM Electronics	EM Electronics	060615	0 ~ 360 degree	N/A	Radiation
Antenna Mast	MF	MF-7802	MF780208179	1 ~ 4 m	N/A	Radiation

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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Loop Antenna	TESEQ	HLA 6120	31244	9kHz ~ 30MHz	Dec. 02, 2012	Radiation
Amplifier	EM	EM18G40G	060604	18GHz ~ 40GHz	Oct. 17.2013	Radiation

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