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.

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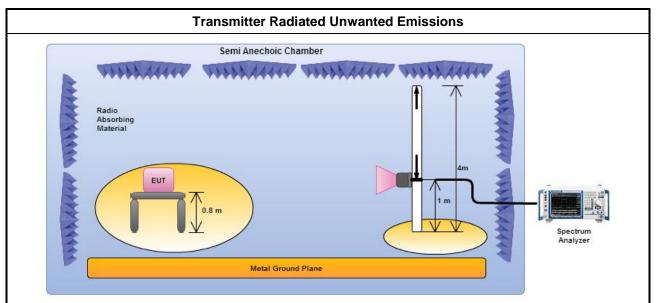


1.1.3 Test Procedures

	Test Method
perfo equi extra dista	surements may be performed at a distance other than the limit distance provided they are not ormed in the near field and the emissions to be measured can be detected by the measurement pment. When performing measurements at a distance other than that specified, the results shall be applated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear unce for field-strength measurements, inverse of linear distance-squared for power-density surements).
	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.
\boxtimes	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.
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 4.2.3.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
	Refer as ANSI C63.10, clause 4.2.3.2.4 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 from below 30 MHz.
\boxtimes	Refer as ANSI C63.10, clause 6.5 for radiated emissions from 30 MHz to 1000 MHz.
\boxtimes	Refer as ANSI C63.10, clause 6.6 for radiated emissions from above 1 GHz.
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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1.1.4 Test Setup



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 and the frequency range of 1 GHz to 40 GHz using a calibrated horn antenna.

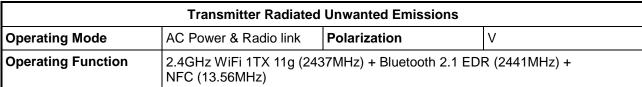
1.1.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

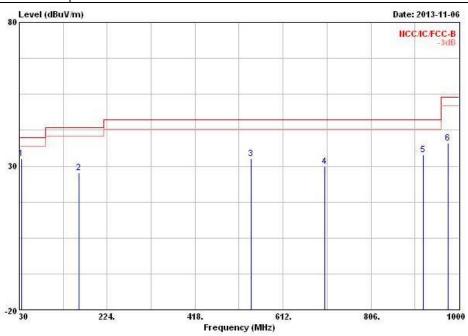
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

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





			Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB	*	cm	deg
1	35.820	32.66	-7.34	40.00	43.89	15.52	0.85	27.60	Peak		
2	160.950	27.65	-15.85	43.50	42.96	10.00	1.84	27.15	Peak		~
3	541.190	32.59	-13.41	46.00	38.44	18.58	3.49	27.92	Peak		
4	704.150	29.99	-16.01	46.00	35.05	18.87	4.00	27.93	Peak		
5	921.430	33.88	-12.12	46.00	36.08	20.63	4.66	27.49	Peak		
6	975.750	38.09	-15.91	54.00	39.41	21.17	4.85	27.34	Peak		2000

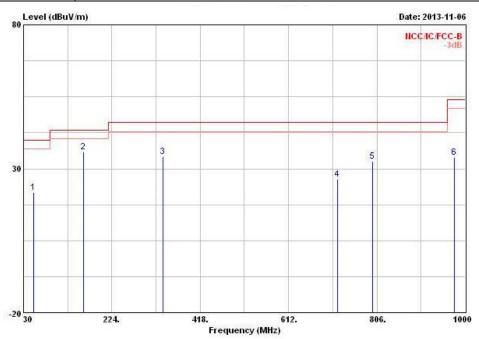
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

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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	Transmitter Radiated Unwanted Emissions									
Operating Mode	AC Power & Radio link	Polarization	Н							
Operating Function	2.4GHz WiFi 1TX 11g (243 NFC (13.56MHz)	37MHz) + Bluetooth 2.1 ED	R (2441MHz) +							



			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
2	MHz	dBuV/m	dВ	dBuV/m	dBuV	dB/m	dB	dB		cm.	deg
1	52.310	21.66	-18.34	40.00	40.38	7.84	1.01	27.57	Peak		i ces
2	160.950	35.70	-7.80	43.50	51.01	10.00	1.84	27.15	Peak		
3	335.550	34.28	-11.72	46.00	44.57	13.87	2.73	26.89	Peak	222	
4	719.670	26.33	-19.67	46.00	30.98	19.20	4.06	27.91	Peak		
5	796.300	32.47	-13.53	46.00	36.31	19.66	4.30	27.80	Peak		555
6	975.750	33.84	-20.16	54.00	35.16	21.17	4.85	27.34	Peak		

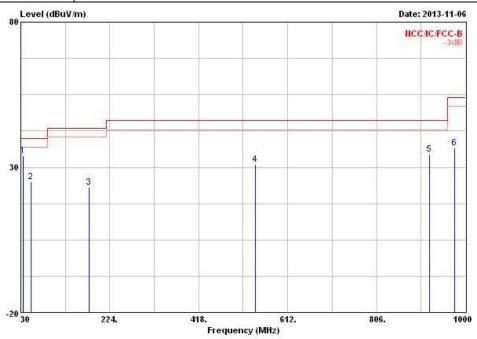
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

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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	Transmitter Radiated Unwanted Emissions									
Operating Mode AC Power & Radio link Polarization V										
Operating Function	2.4GHz WiFi 2TX 11n 20N NFC (13.56MHz)	IHz (2437MHz) + Bluetooth	2.1 EDR (2441MHz) +							



			0ver	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm.	deg
1 @	35.820	34.01	-5.99	40.00	45.24	15.52	0.85	27.60	Peak		
2	52.310	24.87	-15.13	40.00	43.59	7.84	1.01	27.57	Peak		<u>~</u>
3	179.380	22.98	-20.52	43.50	38.71	9.42	1.93	27.08	Peak		
4	541.190	31.03	-14.97	46.00	36.88	18.58	3.49	27.92	Peak		577
5	921.430	34.60	-11.40	46.00	36.80	20.63	4.66	27.49	Peak		
6	975.750	36.74	-17.26	54.00	38.06	21.17	4.85	27.34	Peak		222

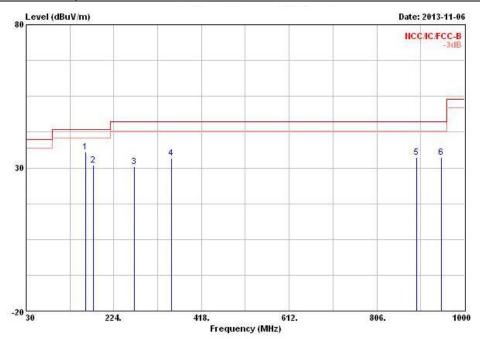
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

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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	Transmitter Radiated Unwanted Emissions									
Operating Mode	AC Power & Radio link	Polarization	Н							
Operating Function	2.4GHz WiFi 2TX 11n 20N NFC (13.56MHz)	IHz (2437MHz) + Bluetooth	2.1 EDR (2441MHz) +							



	Freq	Level	Over Limit			Antenna Factor			Remark	Ant Pos	Table Pos
<u></u>	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm.	deg
1 @	160.950	35.67	-7.83	43.50	50.98	10.00	1.84	27.15	Peak		
2	179.380	30.87	-12.63	43.50	46.60	9.42	1.93	27.08	Peak		
3	269.590	30.38	-15.62	46.00	41.74	12.99	2.41	26.76	Peak		
4	351.070	33.43	-12.57	46.00	43.17	14.47	2.79	27.00	Peak	444	
5	894.270	33.62	-12.38	46.00	36.19	20.46	4.53	27.56	Peak		
6	948.590	33.70	-12.30	46.00	35.46	20.85	4.80	27.41	Peak		

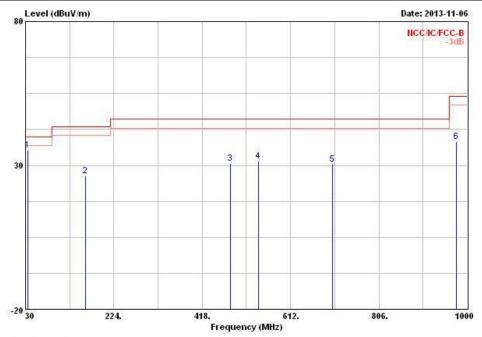
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

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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Transmitter Radiated Unwanted Emissions									
Operating Mode AC Power & Radio link Polarization V									
Operating Function	5.6GHz WiFi 1TX 11a 20N NFC (13.56MHz)	IHz (5580MHz) + Bluetooth	2.1 EDR (2441MHz) +						



	Freq	Level	Over Limit			Antenna Factor			Remark	Ant Pos	Table Pos
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-	cm.	deg
10	35.820	35.27	-4.73	40.00	46.50	15.52	0.85	27.60	Peak	lmax.	maa
2	160.950	26.37	-17.13	43.50	41.68	10.00	1.84	27.15	Peak		
3	479.110	30.76	-15.24	46.00	38.19	17.06	3.27	27.76	Peak		222
4	541.190	31.44	-14.56	46.00	37.29	18.58	3.49	27.92	Peak		
5	704.150	30.49	-15.51	46.00	35.55	18.87	4.00	27.93	Peak	-	305
6	975.750	38.32	-15.68	54.00	39.64	21.17	4.85	27.34	Peak		

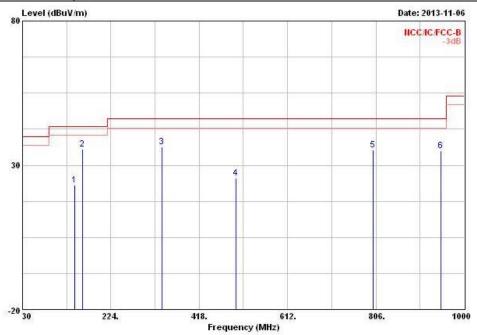
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

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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Transmitter Radiated Unwanted Emissions											
Operating Mode AC Power & Radio link Polarization H											
Operating Function	5.6GHz WiFi 1TX 11a 20N NFC (13.56MHz)	IHz (5580MHz) + Bluetooth	2.1 EDR (2441MHz) +								



	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Remark	Ant Pos	Table Pos
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-	cm	deg
1	144.460	23.14	-20.36	43.50	37.82	10.76	1.77	27.21	Peak		
2	160.950	35.67	-7.83	43.50	50.98	10.00	1.84	27.15	Peak	100000	222
3	335.550	36.36	-9.64	46.00	46.65	13.87	2.73	26.89	Peak		
4	498.510	25.53	-20.47	46.00	32.92	17.14	3.34	27.87	Peak		
5	800.180	35.19	-10.81	46.00	39.04	19.64	4.31	27.80	Peak		
6	948.590	34.97	-11.03	46.00	36.73	20.85	4.80	27.41	Peak	4	2222

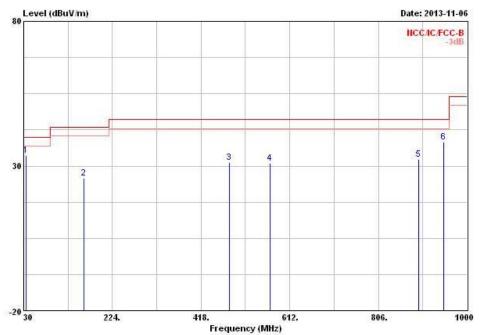
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

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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Transmitter Radiated Unwanted Emissions											
Operating Mode AC Power & Radio link Polarization V											
Operating Function	5.6GHz WiFi 2TX 11n 20 NFC (13.56MHz)	MHz (5720MHz) + Bluetoo	h 2.1 EDR (2441MHz) +								



			0ver	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
92	MKz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	35.820	33.71	-6.29	40.00	44.94	15.52	0.85	27.60	Peak		H inaaa
2	160.950	25.82	-17.68	43.50	41.13	10.00	1.84	27.15	Peak		
3	479.110	31.28	-14.72	46.00	38.71	17.06	3.27	27.76	Peak	-	
4	568.350	31.03	-14.97	46.00	37.14	18.26	3.59	27.96	Peak	2	
5	894.270	32.17	-13.83	46.00	34.74	20.46	4.53	27.56	Peak	575-050c	No.
6	948.590	38.19	-7.81	46.00	39.95	20.85	4.80	27.41	Peak		<u></u>

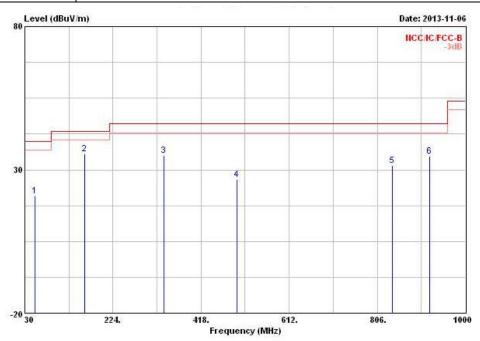
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

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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Transmitter Radiated Unwanted Emissions											
Operating Mode AC Power & Radio link Polarization H											
Operating Function	5.6GHz WiFi 2TX 11n 20M NFC (13.56MHz)	IHz (5720MHz) + Bluetooth	2.1 EDR (2441MHz) +								



	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Remark	Ant Pos	Table Pos
	MKz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		- cm	deg
1	52.310	20.79	-19.21	40.00	39.51	7.84	1.01	27.57	Peak		
2	160.950	35.46	-8.04	43.50	50.77	10.00	1.84	27.15	Peak		
3	335.550	35.06	-10.94	46.00	45.35	13.87	2.73	26.89	Peak		
4	497.540	26.59	-19.41	46.00	33.98	17.14	3.34	27.87	Peak		
5	839.950	31.54	-14.46	46.00	34.62	20.20	4.42	27.70	Peak		
6	921.430	34.66	-11.34	46.00	36.86	20.63	4.66	27.49	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.)

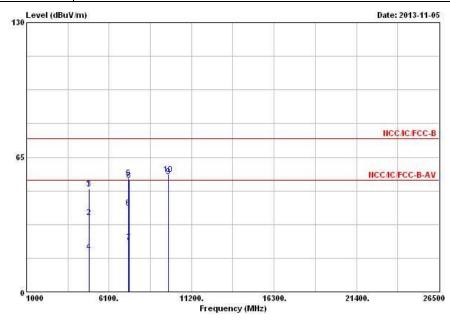
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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

Transmitter Radiated Unwanted Emissions									
Operating Mode AC Power & Radio link Polarization V									
Operating Function	2.4GHz WiFi 1TX 11g (2-NFC (13.56MHz)	437MHz) + Bluetooth 2.1 E	DR (2441MHz) +						



			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
1	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB		cm	deg
1	4874.000	49.56	-24.44	74.00	42.48	33.18	6.32	32.42	Peak	7.75	1757-75
2	4874.000	35.94	-18.06	54.00	28.86	33.18	6.32	32.42	Average		
3	4882.000	49.53	-24.47	74.00	42.41	33.18	6.36	32.42	Peak		
4	4882.000	19.43	-34.57	54.00	12.31	33.18	6.36	32.42	Average		
5	7311.000	55.03	-18.97	74.00	43.78	36.04	7.87	32.66	Peak		No.
6	7311.000	40.34	-13.66	54.00	29.09	36.04	7.87	32.66	Average		
7	7323.000	23.95	-30.05	54.00	12.66	36.09	7.87	32.67	Average		
8	7323.000	54.04	-19.96	74.00	42.75	36.09	7.87	32.67	Peak		
9	9748.000	55.67			41.74	38.57	8.44	33.08	Peak		10000
10	9764.000	56.84			42.90	38.61	8.41	33.08	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.

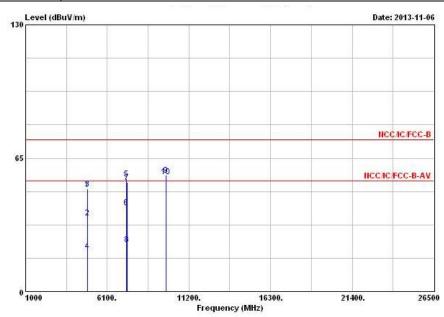
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Transmitter Radiated Unwanted Emissions										
Operating Mode AC Power & Radio link Polarization H										
Operating Function	2.4GHz WiFi 1TX 11g (243 NFC (13.56MHz)	37MHz) + Bluetooth 2.1 ED	R (2441MHz) +							



			0ver	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm.	deg
1	4874.000	49.84	-24.16	74.00	42.76	33.18	6.32	32.42	Peak		
2	4874.000	35.76	-18.24	54.00	28.68	33.18	6.32	32.42	Average	2000	
3	4882.000	49.97	-24.03	74.00	42.85	33.18	6.36	32.42	Peak		
4	4882.000	19.87	-34.13	54.00	12.75	33.18	6.36	32.42	Average		
5	7311.000	54.89	-19.11	74.00	43.64	36.04	7.87	32.66	Peak		
6	7311.000	41.00	-13.00	54.00	29.75	36.04	7.87	32.66	Average	2000	
7	7323.000	53.09	-20.91	74.00	41.80	36.09	7.87	32.67	Peak		
8	7323.000	22.99	-31.01	54.00	11.70	36.09	7.87	32.67	Average		
9	9748.000	56.80			42.87	38.57	8.44	33.08	Peak		
10	9764.000	56.08			42.14	38.61	8.41	33.08	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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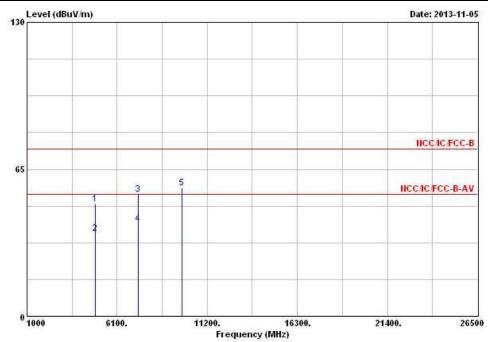
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Transmitter Radiated Unwanted Emissions										
Operating Mode AC Power & Radio link Polarization V										
Operating Function	2.4GHz WiFi 2TX 11n 20N NFC (13.56MHz)	MHz (2437MHz) + Bluetooth	2.1 EDR (2441MHz) +							



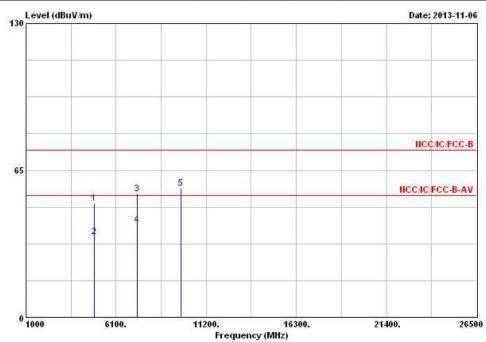
	Freq	Level	Over Limit			Antenna Factor				Ant Pos	Table Pos
	MHz	dBuV/m		dBuV/m	dBuV	dB/m	- дв	dB	-		deg
1	4874.000	49.53	-24.47	74.00	42.45	33.18	6.32	32.42	Peak		
2	4874.000	36.51	-17.49	54.00	29.43	33.18	6.32	32.42	Average		
3	7311.000	53.98	-20.02	74.00	42.73	36.04	7.87	32.66	Peak		
4	7311.000	41.02	-12.98	54.00	29.77	36.04	7.87	32.66	Average		
5	9748.000	56.67			42.74	38.57	8.44	33.08	Peak	77.00	200000

- 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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Transmitter Radiated Unwanted Emissions										
Operating Mode	AC Power & Radio link	Polarization	Н							
Operating Function	2.4GHz WiFi 2TX 11n 20N NFC (13.56MHz)	IHz (2437MHz) + Bluetooth	2.1 EDR (2441MHz) +							

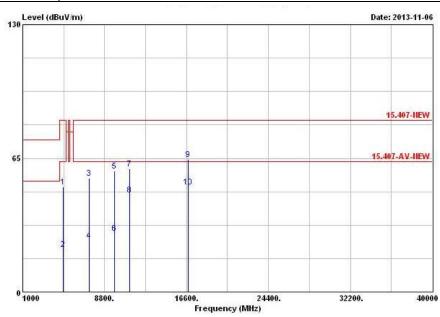


			0ver	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MKz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB		cm.	deg
1	4874.000	50.32	-23.68	74.00	43.24	33.18	6.32	32.42	Peak		
2	4874.000	35.71	-18.29	54.00	28.63	33.18	6.32	32.42	Average		
3	7311.000	54.63	-19.37	74.00	43.38	36.04	7.87	32.66	Peak		
4	7311.000	40.95	-13.05	54.00	29.70	36.04	7.87	32.66	Average		
5	9748.000	56.96			43.03	38.57	8.44	33.08	Peak		men.

- 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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Transmitter Radiated Unwanted Emissions									
Operating Mode	AC Power & Radio link	Polarization	V						
Operating Function	5.6GHz WiFi 1TX 11a (558 NFC (13.56MHz)	30MHz) + Bluetooth 2.1 ED	R (2441MHz) +						

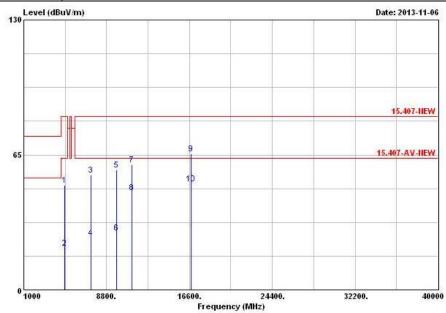


			Over	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB			cm	deg
1	4882.000	51.06	-32.48	83.54	43.41	33.71	6.36	32.42	Peak		
2	4882.000	20.96	-42.58	63.54	13.31	33.71	6.36	32.42	Average		
3	7323.000	55.15	-28.39	83.54	42.89	37.06	7.87	32.67	Peak		
4	7323.000	25.05	-38.49	63.54	12.79	37.06	7.87	32.67	Average		
5	9764.000	58.73	-24.81	83.54	44.11	39.29	8.41	33.08	Peak		
6	9764.000	28.63	-34.91	63.54	14.01	39.29	8.41	33.08	Average		
7	11160.000	60.03	-23.51	83.54	43.61	39.50	9.28	32.36	Peak		
8	11160.000	47.20	-16.34	63.54	30.78	39.50	9.28	32.36	Average		
9	16740.000	64.43	-19.11	83.54	45.84	40.40	9.83	31.64	Peak		
10	16740.000	51.17	-12.37	63.54	32.58	40.40	9.83	31.64	Average		

- 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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Transmitter Radiated Unwanted Emissions									
Operating Mode	AC Power & Radio link	Polarization	Н						
Operating Function	5.6GHz WiFi 1TX 11a (558 NFC (13.56MHz)	30MHz) + Bluetooth 2.1 ED	R (2441MHz) +						

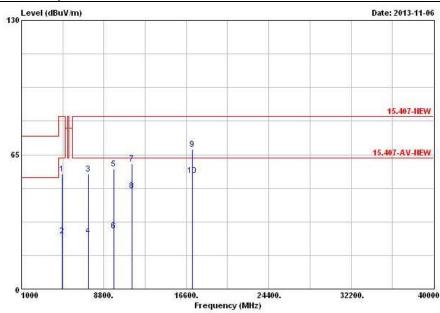


			0ver	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg
1	4882.000	50.34	-33.20	83.54	42.69	33.71	6.36	32.42	Peak		
2	4882.000	20.24	-43.30	63.54	12.59	33.71	6.36	32.42	Average	4.000	9 <u>~ 6.434</u>
3	7323.000	55.19	-28.35	83.54	42.93	37.06	7.87	32.67	Peak		
4	7323.000	25.09	-38.45	63.54	12.83	37.06	7.87	32.67	Average		
5	9764.000	57.67	-25.87	83.54	43.05	39.29	8.41	33.08	Peak		
6	9764.000	27.57	-35.97	63.54	12.95	39.29	8.41	33.08	Average	4.000	9 <u>~ 6.434</u>
7	11160.000	60.34	-23.20	83.54	43.92	39.50	9.28	32.36	Peak		
8	11160.000	46.86	-16.68	63.54	30.44	39.50	9.28	32.36	Average		
9	16740.000	65.37	-18.17	83.54	46.78	40.40	9.83	31.64	Peak		
10	16740.000	51.26	-12.28	63.54	32.67	40.40	9.83	31.64	Average		2000

- 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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Transmitter Radiated Unwanted Emissions									
Operating Mode	AC Power & Radio link	Polarization	V						
Operating Function	5.6GHz WiFi 2TX 11n 20N NFC (13.56MHz)	1Hz (5720MHz) + Bluetooth	2.1 EDR (2441MHz) +						



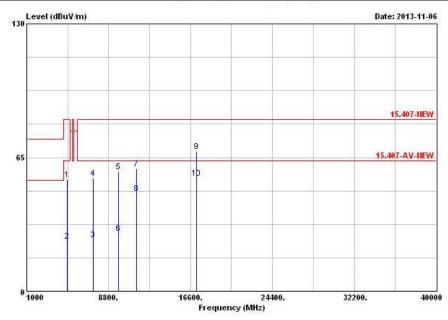
			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	4882.000	55.66	-27.88	83.54	48.01	33.71	6.36	32.42	Peak		
2	4882.000	25.56	-37.98	63.54	17.91	33.71	6.36	32.42	Average	9,000,00	2000
3	7323.000	55.80	-27.74	83.54	43.54	37.06	7.87	32.67	Peak		
4	7323.000	25.70	-37.84	63.54	13.44	37.06	7.87	32.67	Average		
5	9764.000	58.28	-25.26	83.54	43.66	39.29	8.41	33.08	Peak		
6	9764.000	28.18	-35.36	63.54	13.56	39.29	8.41	33.08	Average	-	~
7	11440.000	60.45	-23.09	83.54	43.51	39.98	9.30	32.34	Peak		
8	11440.000	47.67	-15.87	63.54	30.73	39.98	9.30	32.34	Average		
9	17160.000	67.66	-15.88	83.54	46.28	43.23	9.51	31.36	Peak		
10	17160.000	54.93	-8.61	63.54	33.55	43.23	9.51	31.36	Average	<u></u>	200

- 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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Transmitter Radiated Unwanted Emissions										
Operating Mode	AC Power & Radio link	Polarization	Н							
Operating Function	5.6GHz WiFi 2TX 11n 20N NFC (13.56MHz)	IHz (5720MHz) + Bluetooth	2.1 EDR (2441MHz) +							



			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	4882.000	54.25	-29.29	83.54	46.60	33.71	6.36	32.42	Peak		
2	4882.000	24.15	-39.39	63.54	16.50	33.71	6.36	32.42	Average		
3	7323.000	24.91	-38.63	63.54	12.65	37.06	7.87	32.67	Average		
4	7323.000	55.01	-28.53	83.54	42.75	37.06	7.87	32.67	Peak		
5	9764.000	58.22	-25.32	83.54	43.60	39.29	8.41	33.08	Peak		
6	9764.000	28.12	-35.42	63.54	13.50	39.29	8.41	33.08	Average		
7	11440.000	59.53	-24.01	83.54	42.59	39.98	9.30	32.34	Peak		
8	11440.000	47.47	-16.07	63.54	30.53	39.98	9.30	32.34	Average		
9	17160.000	68.05	-15.49	83.54	46.67	43.23	9.51	31.36	Peak		
10	17160.000	54.97	-8.57	63.54	33.59	43.23	9.51	31.36	Average		

- 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	Dec. 01, 2012	Radiation (03CH03-HY)
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	May. 03, 2013	Radiation (03CH03-HY)
Amplifier	Agilent	8449B	3008A02120	1GHz ~ 26.5GHz	Aug. 20, 2013	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP30	100023	9kHz ~ 30GHz	Jul. 20, 2013	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP40	100004	9kHz ~ 40GHz	Mar. 11, 2013	Radiation (03CH03-HY)
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30MHz ~ 1GHz	Sep. 21, 2013	Radiation (03CH03-HY)
Horn Antenna	EMCO	3115	6741	1GHz ~ 18GHz	May 31, 2013	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz ~ 40GHz	Jan. 08, 2013	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	Jan. 17, 2013	Radiation (03CH03-HY)
RF Cable-high	SUHNER	SUCOFLEX 106	03CH03-HY	1GHz ~ 40GHz	Jan. 17, 2013	Radiation (03CH03-HY)
Turn Table	EM Electronics	EM Electronics	060615	0 ~ 360 degree	N/A	Radiation (03CH03-HY)
Antenna Mast	MF	MF-7802	MF780208179	1 ~ 4 m	N/A	Radiation (03CH03-HY)

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 (03CH03-HY)

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

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