EMI – TEST REPORT

Type / Model Name	:	M260SE
Product Description	:	Handheld Data Terminal (RFID)
Applicant	:	ACD Elektronik GmbH
Address	:	Engelberg 2
		88480 ACHSTETTEN
		GERMANY
Manufacturer	:	ACD Elektronik GmbH
Address	:	Engelberg 2
		88480 ACHSTETTEN
		GERMANY

Test Result according to the standards listed in clause 1 test standards:	**POSITIVE**

Test Report No. :	**T41434-02-01WP**	21. March 2017 Date of issue

Deutsche Akkreditierungsstelle
D-PL-12030-01-01
D-PL-12030-01-02

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test results without the written permission of the test laboratory.

FCC ID: O2FM260SE

Contents

1 TEST STANDARDS

The tests were performed according to following standards:

FCC Rules and Regulations Part 15, Subpart A - General (September, 2016)

FCC Rules and Regulations Part 15, Subpart C - Intentional Radiators (September, 2016)

Part 15, Subpart C, Section 15.205	Restricted bands of operation
Part 15, Subpart C, Section 15.207	Conducted limits
Part 15, Subpart C, Section 15.209	Radiated emission limits, general requirements
Part 15, Subpart C, Section 15.215	Additional provisions to the general radiated emission limitations
Part 15, Subpart C, Section 15.247	Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz

FCC Rules and Regulations Part 15, Subpart E – Unlicensed National Information Infrastructure Devices (September, 2016)

Part 15, Subpart E, Section 15.407	Operation within the bands 5.15 - 5.25 GHz, 5.25 - 5.35 GHz, 5.47 - 5.725 GHz and 5.725 - 5.85 GHz
ANSI C63.10: 2013	Testing Unlicensed Wireless Devices
ETSI TR 100 028 V1.3.1: 2001-03	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Uncertainties in the Measurement of Mobile Radio Equipment Characteristics—Part 1 and Part 2
KDB 558074 D01 v03r05	Guidance for performing compliance measurements on digital transmission systems (DTS) operatning under §15.247
KDB 789033 D02 v01r03	Guidance for compliance Testing of U-NII devices, August 22, 2016.
KDB 174176 D01 v01r01	AC power-line conducted emissions frequently asked questions

2 SUMMARY

2.1 Test results

FCC Rule Part	Description	Result
15.207	AC power line conducted emissions	passed
15.209	Spurious emissions	passed
15.247	Average radiated output power	passed
15.407	Average radiated output power	passed
15.247	Maximum peak radiated output power	passed

2.2 GENERAL REMARKS:

The EUT is approved as battery operated RFID reader under the FCC ID O2FM260SE. As accessory a docking station DS260 is available for the device. In the docking station, the M260SE can be charged and transfer data. While charging the M260SE is able to transmit. Additionally a WLAN module (FCC ID: TWG-SDCMSD30AG) and a Bluetooth module (FCC ID: SQGBT830) are integrated into the device. All three modules can transmit simultaneously while charging in the docking station DS260.

To show further compliance of the device, AC power line conducted emissions, spurious emissions from 30 MHz – 40 GHz and the peak radiated output power of the WLAN and Bluetooth modules have been remeasured. During the measurements, all radio modules were active and simultaneously transmitting in a typical use of the device.

For Frequencies below 1 GHz simultaneous transmission of Bluetooth, RFID and the middle WLAN channels (CH6 and CH40) for the supported WLAN Bands (2400 MHz – 2483.5 MHz and 5150 MHz – 5250 MHz) are measured.

During the measurements, the device was operated without SD card. The power of the Bluetooth module is set via registry key to 5 dBm.

2.3 FINAL ASSESSMENT:

The equipment under test fulfills the EMI requirements cited in clause 1 test standards.

Date of receipt of test sample	:	acc. to storage records
Testing commenced on	:	08 February 2017
Testing concluded on	:	15 March 2017

Checked by:

Klaus Gegenfurtner
I confirm the correctness and Integrity of this document
2017.03.21 15:18:09 +01'00'

Klaus Gegenfurtner
Teamleader Radio

Issued by:

Willibald Probst
I am the author of this document
2017.03.21 15:01:36 +01'00'

Willibald Probst
Radio Team

3 EQUIPMENT UNDER TEST

3.1 Photo documentation of the EUT – Detailed photos see attachment B

3.2 Power supply system utilised

Power supply voltage : 7.4 V DC LiPO Battery
15 V DC (external power supply, while in docking station)

All tests were carried out with the AC/DC power supply supplied by the manufacturer.

3.3 Short description of the equipment under test (EUT)

The EUT is a mobile handheld Data Terminal with an integrated RFID reader, operating at 125 kHz (FCC ID: O2FM260SE). Additionally, a WLAN module (FCC ID: TWG-SDCMSD30AG) and a Bluetooth module (FCC ID: SQGBT830) are integrated into the device. It can be charged and operated in a docking station (DS260), which is available as accessory. While in the docking station, all radio modules can transmit simultaneously. The EUT supports the WLAN Channels 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 in the 2.4 GHz band and 36, 40,44, 48 in the 5 GHz band.

Number of tested samples: 1
Serial number: 158100001604

EUT operation mode:

The equipment under test was operated during the measurement under the following conditions:

- charging in the docking station DS260 and simultaneous transmission of all radio modules

To achieve simultaneous transmission of all radio modules, the individual modules were operated in a operation mode typical for the device. RFID is operated in continuous tag reading mode. For WLAN and Bluetooth an active connection is established to a suitable companion device. For WLAN a file is repeatedly transmitted to the companion device. For Bluetooth data are sent continuously to a Bluetooth headset.

EUT configuration:

The following peripheral devices and interface cables were connected during the measurements:

- TAG Model : IPC02-50P, Pepperl+Fuchs
- Bluetooth Headset Model : topsystem Lydia BlueMaster
- Docking Station Model : DS260
- AC/DC power supply Model : Taiytech; KSAS0361500240M2

4 TEST ENVIRONMENT

4.1 Address of the test laboratory

CSA Group Bayern GmbH
Ohmstrasse 1-4
94342 STRASSKIRCHEN
GERMANY

4.2 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	86-106 kPa

4.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. It is noted that the expanded measurement uncertainty corresponds to the measurement results from the standard measurement uncertainty multiplied by the coverage factor k = 2. The true value is located in the corresponding interval with a probability of 95 % The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16-4-2 / 11.2003 „Uncertainties, statistics and limit modelling – Uncertainty in EMC measurements“ and is documented in the quality system acc. to DIN EN ISO/IEC 17025. For all measurements shown in this report, the measurement uncertainty of the test laboratory, CSA Group Bayern GmbH, is below the measurement uncertainty as defined by CISPR. Therefore, no special measures must be taken into consideration with regard to the limits according to CISPR. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Measurement Type	Range	Confidence Level (%)	Calculated Uncertainty
AC Conducted Spurious Emissions	0.15 MHz to 30 MHz	95%	± 3.29 dB
20 dB Bandwidth	Center frequency of EuT	95%	± 2.5 x 10^{-7}
99% Occupied Bandwidth	Center frequency of EuT	95%	± 2.5 x 10^{-7}
Radiated Spurious Emissions	9 kHz to 30 MHz	95%	± 3.53 dB
Radiated Spurious Emissions	30 MHz to 1000 MHz	95%	± 3.71 dB
Radiated Spurious Emissions	1000 MHz to 10000 MHz	95%	± 2.34 dB
Peak conducted output power	Center frequency of EuT	95%	± 3.53 dB
Conducted Spurious Emissions	9 kHz to 10000 MHz	95%	± 2.15 dB

4.4 Measurement protocol for FCC

4.4.1 General information

4.4.1.1 Test methodology

Conducted and radiated disturbance testing is performed according to the procedures set out by the International Special Committee on Radio Interference (CISPR) Publication 22, European Standard EN 55022 as shown under section 1 of this report.

4.4.1.2 Justification

The equipment under test (EUT) is configured in a typical user arrangement in accordance with the manufacturer's instructions. A cable is connected to each available port and either terminated with a peripheral using the appropriate impedance characteristic or left unterminated. Where appropriate, cables are manually manipulated with respect to each other thus obtaining maximum disturbances from the unit.

4.4.1.3 Details of test procedures

The test methods used comply with CISPR Publication 22, EN 55022 - " Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement" and with ANSI C63.4 - "Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz". In compliance with 47 CFR Part 15 Subpart A, Section 15.38 testing for FCC compliance may be achieved by following the procedures set out in ANSI C63.4 and applying the CISPR 22 limits.

5 TEST CONDITIONS AND RESULTS

5.1 Conducted emissions

For test instruments and accessories used, see section 6 Part **A 4**.

Legend for tables:
QP-L … QuasiPeak reading including correction factor
AV-L … Average reading including correction factor
D-Limit… Measured value to limit delta (margin)

5.1.1 Description of the test location

Test location: Shielded Room S2

5.1.2 Photo documentation of the test set-up

with notebook:

without notebook:

5.1.3 Applicable standard

According to FCC Part 15, Section 15.207(a):
Except for Class A devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the given limits.

5.1.4 Description of Measurement

The measurements are performed following the procedures set out in ANSI C63.10 described under item 4.4.3. If the minimum limit margin appears to be less than 20 dB with a peak mode measurement, the emissions are remeasured using a tuned receiver with quasi-peak and average detection and recorded on the data sheets.

5.1.5 Test result

Frequency range: 0.15 MHz - 30 MHz

Min. limit margin 7.94 dB at 0.182 MHz

Limit according to FCC Part 15, Section 15.207(a):

Frequency of Emission (MHz)	Conducted Limit (dBµV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

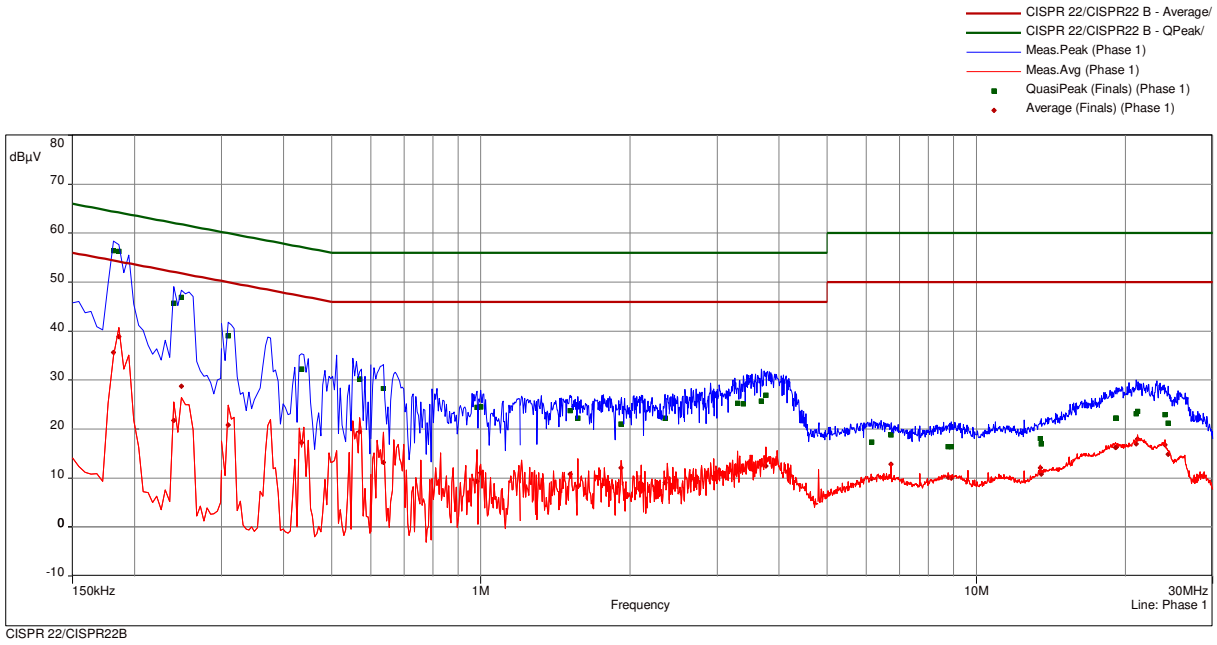
* Decreases with the logarithm of the frequency

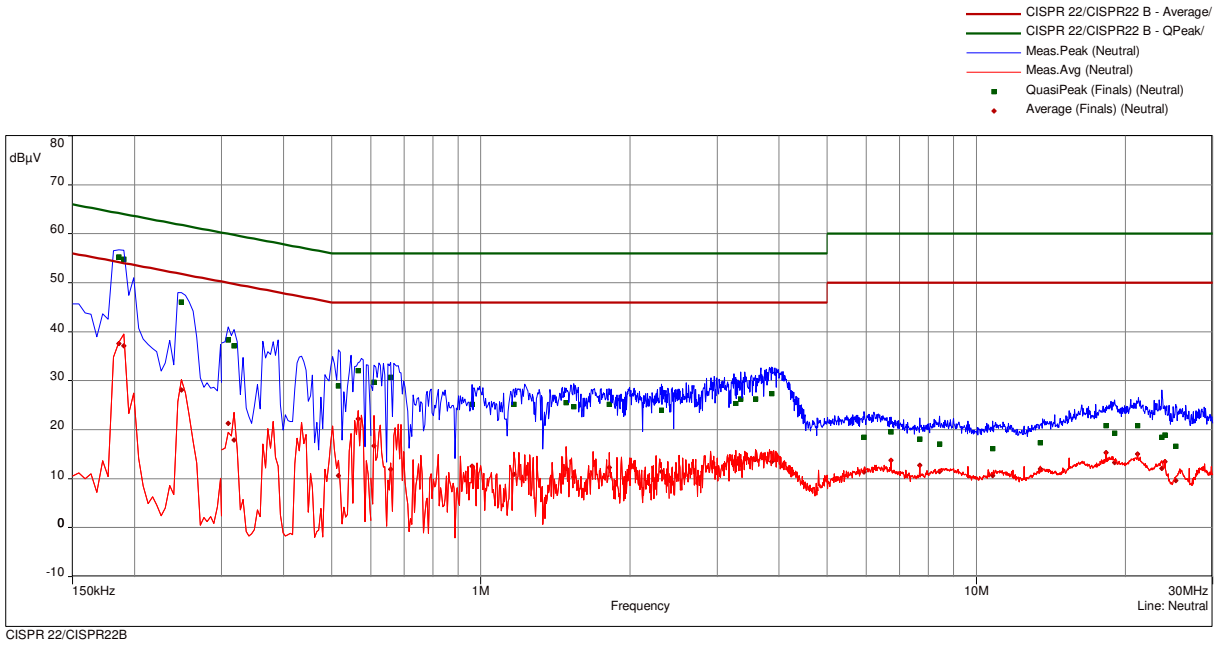
The requirements are **FULFILLED.**

Remarks: For detailed test result please refer to following test protocols

5.1.6 Test protocol

Operation mode:	charging in the docking station DS260 and simultaneous transmission of all radio modules (WLAN on CH 6)	Result: passed
Remarks:	test setup with notebook	
Date:	15.02.2017	
Tested by:	Willibald Probst	



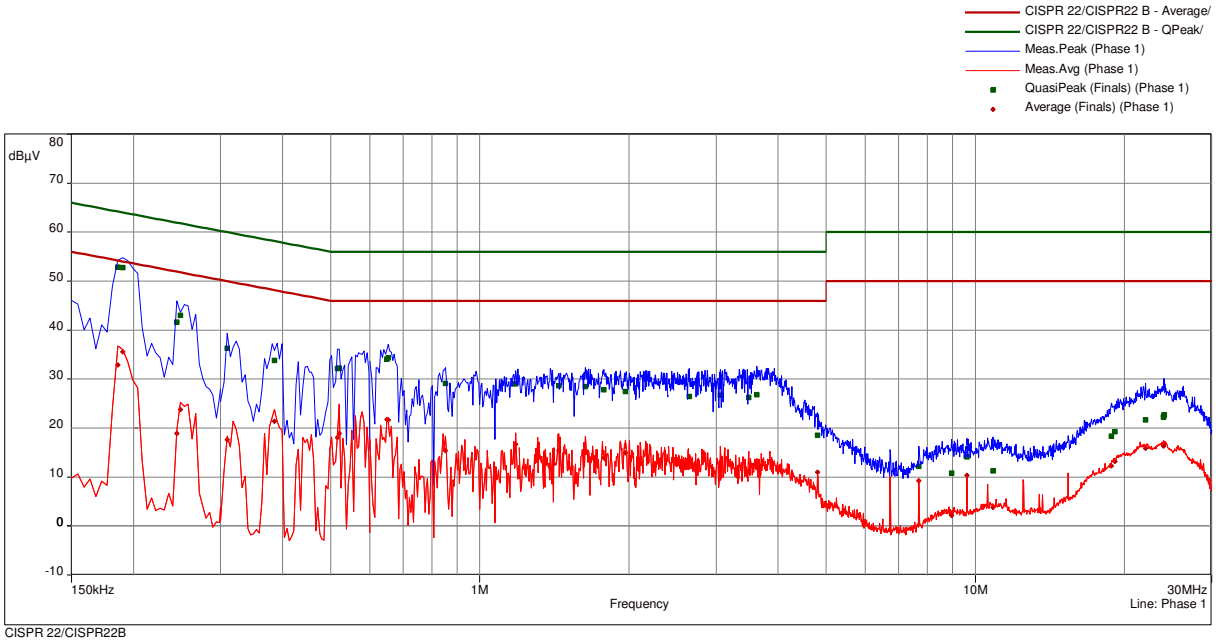


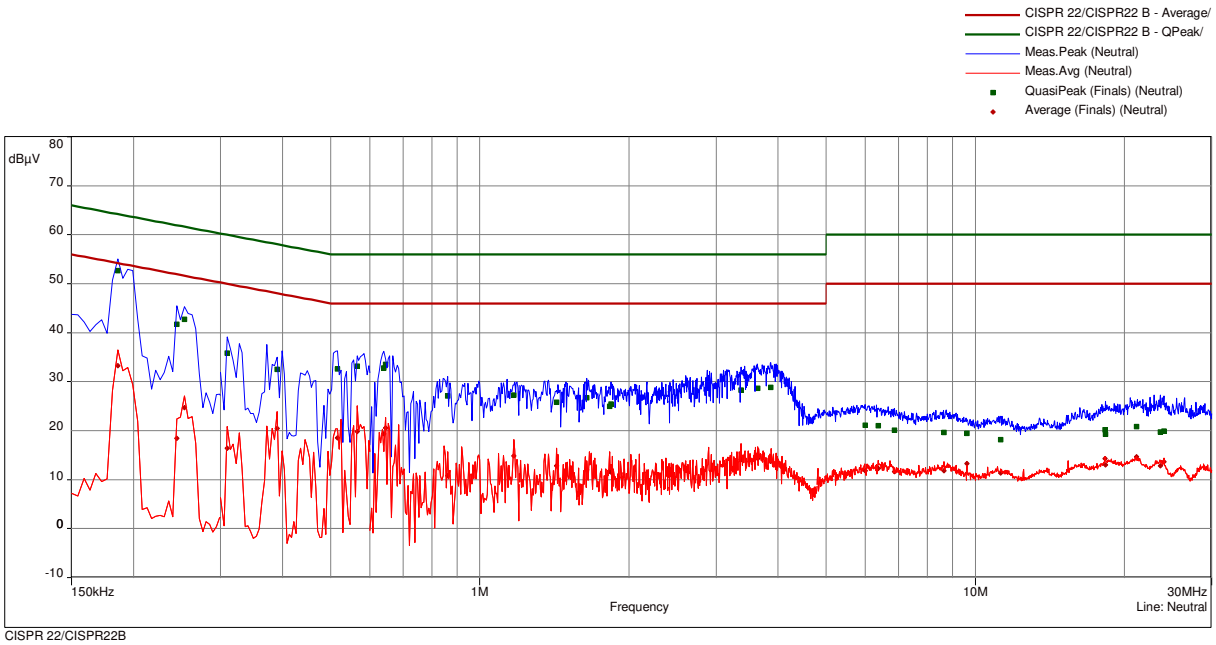
Frequency (MHz)	SR	QuasiPeak (dBµV)	QP Margin	QP Limit	Average (dBµV)	AV Margin	AV Limit	Line	Correction (dB)
0.182	1	56.47	7.94	64.42	35.64	18.78	54.42	Phase 1	9.82
0.186	1	56.26	7.95	64.21	38.84	15.37	54.21	Phase 1	9.82
0.240	1	45.69	16.40	62.10	21.76	30.33	52.10	Phase 1	9.81
0.249	1	46.89	14.90	61.79	28.75	23.04	51.79	Phase 1	9.81
0.309	2	39.01	20.98	60.00	20.85	29.15	50.00	Phase 1	9.80
0.435	2	32.22	24.94	57.16	17.20	29.95	47.16	Phase 1	9.80
0.570	2	30.19	25.81	56.00	19.45	26.55	46.00	Phase 1	9.80
0.636	3	28.31	27.69	56.00	13.22	32.78	46.00	Phase 1	9.80
0.983	3	24.39	31.61	56.00	9.33	36.67	46.00	Phase 1	9.80
1.001	3	24.53	31.47	56.00	11.10	34.90	46.00	Phase 1	9.80
1.515	4	23.78	32.22	56.00	10.80	35.20	46.00	Phase 1	9.77
1.569	4	22.21	33.79	56.00	8.30	37.70	46.00	Phase 1	9.77
1.920	4	21.01	34.99	56.00	12.07	33.93	46.00	Phase 1	9.80
2.357	4	22.18	33.82	56.00	9.06	36.94	46.00	Phase 1	9.79
3.296	5	25.23	30.77	56.00	11.47	34.53	46.00	Phase 1	9.81
3.390	5	25.14	30.86	56.00	11.73	34.27	46.00	Phase 1	9.81
3.683	5	25.68	30.32	56.00	12.70	33.30	46.00	Phase 1	9.81
3.764	5	26.91	29.09	56.00	12.43	33.57	46.00	Phase 1	9.81
6.155	6	17.33	42.67	60.00	9.91	40.09	50.00	Phase 1	9.83
6.731	6	18.85	41.15	60.00	12.84	37.16	50.00	Phase 1	9.84
8.769	6	16.41	43.59	60.00	10.15	39.85	50.00	Phase 1	9.87
8.900	6	16.39	43.61	60.00	10.01	39.99	50.00	Phase 1	9.88
13.461	7	18.04	41.96	60.00	12.05	37.95	50.00	Phase 1	10.04
13.538	7	16.96	43.04	60.00	10.83	39.17	50.00	Phase 1	10.05
19.086	7	22.17	37.83	60.00	16.27	33.73	50.00	Phase 1	10.29
19.163	7	22.26	37.74	60.00	16.33	33.67	50.00	Phase 1	10.30
21.014	8	23.17	36.83	60.00	16.96	33.04	50.00	Phase 1	10.34
21.153	8	23.63	36.37	60.00	17.94	32.06	50.00	Phase 1	10.34
24.042	8	22.92	37.08	60.00	16.74	33.26	50.00	Phase 1	10.35
24.380	8	21.21	38.79	60.00	14.86	35.14	50.00	Phase 1	10.35

Frequency (MHz)	SR	QuasiPeak (dBµV)	QP Margin	QP Limit	Average (dBµV)	AV Margin	AV Limit	Line	Correction (dB)
0.186	9	55.22	8.99	64.21	37.55	16.66	54.21	Neutral	9.83
0.191	9	54.79	9.23	64.01	37.12	16.90	54.01	Neutral	9.83
0.249	9	46.08	15.71	61.79	28.14	23.65	51.79	Neutral	9.82
0.309	10	38.32	21.67	60.00	21.28	28.72	50.00	Neutral	9.80
0.318	10	37.09	22.67	59.76	17.93	31.82	49.76	Neutral	9.80
0.516	10	28.98	27.02	56.00	10.63	35.37	46.00	Neutral	9.80
0.566	10	32.10	23.90	56.00	22.20	23.80	46.00	Neutral	9.80
0.609	11	29.65	26.35	56.00	16.72	29.28	46.00	Neutral	9.80
0.659	11	30.68	25.32	56.00	11.91	34.09	46.00	Neutral	9.80
0.960	11	25.17	30.83	56.00	12.54	33.46	46.00	Neutral	9.80
1.167	11	25.12	30.88	56.00	10.94	35.06	46.00	Neutral	9.79
1.488	12	25.50	30.50	56.00	12.12	33.88	46.00	Neutral	9.77
1.542	12	24.69	31.31	56.00	10.32	35.68	46.00	Neutral	9.77
1.817	12	25.15	30.85	56.00	12.23	33.77	46.00	Neutral	9.79
2.316	12	23.94	32.06	56.00	11.48	34.52	46.00	Neutral	9.79
3.273	13	25.30	30.70	56.00	12.94	33.06	46.00	Neutral	9.80
3.345	13	26.30	29.70	56.00	12.94	33.06	46.00	Neutral	9.80
3.584	13	26.29	29.71	56.00	13.91	32.09	46.00	Neutral	9.81
3.867	13	27.36	28.64	56.00	13.50	32.50	46.00	Neutral	9.81
5.930	14	18.43	41.57	60.00	11.36	38.64	50.00	Neutral	9.82
6.731	14	19.55	40.45	60.00	13.75	36.25	50.00	Neutral	9.81
7.694	14	18.08	41.92	60.00	12.76	37.24	50.00	Neutral	9.81
8.436	14	17.05	42.95	60.00	11.45	38.55	50.00	Neutral	9.81
10.788	15	16.11	43.89	60.00	10.60	39.40	50.00	Neutral	9.84
13.466	15	17.35	42.65	60.00	12.00	38.00	50.00	Neutral	9.90
18.272	15	20.87	39.13	60.00	15.31	34.69	50.00	Neutral	10.06
19.032	15	19.25	40.75	60.00	13.29	36.71	50.00	Neutral	10.09
21.158	16	20.84	39.16	60.00	15.08	34.92	50.00	Neutral	10.09
23.687	16	18.47	41.53	60.00	12.13	37.87	50.00	Neutral	9.98
24.042	16	18.92	41.08	60.00	13.46	36.54	50.00	Neutral	9.97
25.257	16	16.61	43.39	60.00	9.62	40.38	50.00	Neutral	9.93

FCC ID: O2FM260SE

Operation mode:	charging in the docking station DS260 and simultaneous transmission of all radio modules (WLAN on CH 40)	Result: passed
Remarks:	test setup with notebook	
Date:	15.02.2017	
Tested by:	Willibald Probst	





FCC ID: O2FM260SE

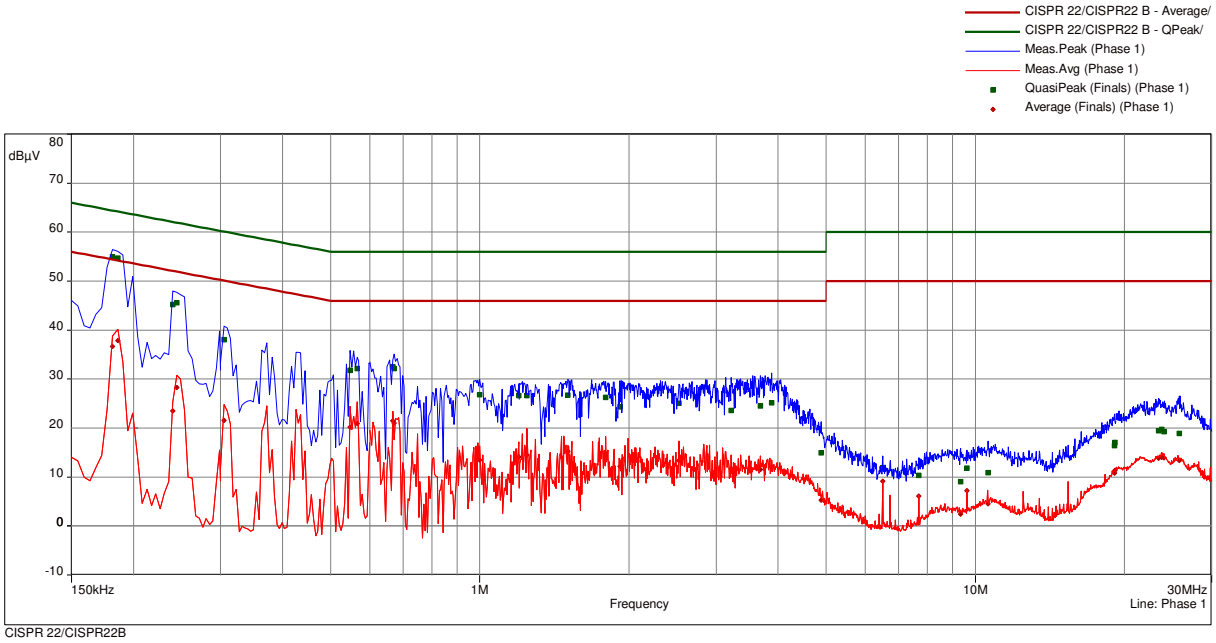
Frequency (MHz)	SR	QuasiPeak (dBµV)	QP Margin	QP Limit	Average (dBµV)	AV Margin	AV Limit	Line	Correction (dB)
0.186	1	52.86	11.36	64.21	32.89	21.32	54.21	Phase 1	9.82
0.191	1	52.73	11.28	64.01	35.59	18.42	54.01	Phase 1	9.82
0.245	1	41.67	20.27	61.94	18.88	33.06	51.94	Phase 1	9.81
0.249	1	43.05	18.74	61.79	23.74	28.05	51.79	Phase 1	9.81
0.309	2	36.31	23.69	60.00	17.58	32.42	50.00	Phase 1	9.80
0.386	2	33.81	24.35	58.16	21.40	26.76	48.16	Phase 1	9.80
0.516	2	32.14	23.86	56.00	18.03	27.97	46.00	Phase 1	9.80
0.521	2	32.20	23.80	56.00	18.87	27.13	46.00	Phase 1	9.80
0.650	3	34.07	21.93	56.00	21.72	24.28	46.00	Phase 1	9.80
0.654	3	34.41	21.59	56.00	21.64	24.36	46.00	Phase 1	9.80
0.852	3	29.12	26.88	56.00	15.43	30.57	46.00	Phase 1	9.80
1.181	3	29.02	26.98	56.00	16.67	29.33	46.00	Phase 1	9.79
1.443	4	28.67	27.33	56.00	15.42	30.58	46.00	Phase 1	9.78
1.632	4	28.49	27.51	56.00	15.08	30.92	46.00	Phase 1	9.78
1.781	4	27.85	28.15	56.00	13.96	32.04	46.00	Phase 1	9.78
1.970	4	27.45	28.55	56.00	14.92	31.08	46.00	Phase 1	9.80
2.648	5	26.44	29.56	56.00	13.15	32.85	46.00	Phase 1	9.78
3.057	5	26.70	29.30	56.00	12.80	33.20	46.00	Phase 1	9.79
3.489	5	26.24	29.76	56.00	11.16	34.84	46.00	Phase 1	9.82
3.624	5	26.79	29.21	56.00	11.92	34.08	46.00	Phase 1	9.82
4.809	6	18.57	37.43	56.00	11.02	34.98	46.00	Phase 1	9.82
7.698	6	12.14	47.86	60.00	9.25	40.75	50.00	Phase 1	9.85
8.967	6	10.77	49.23	60.00	2.13	47.87	50.00	Phase 1	9.88
9.623	7	14.13	45.87	60.00	10.35	39.65	50.00	Phase 1	9.89
10.865	7	11.27	48.73	60.00	3.79	46.21	50.00	Phase 1	9.93
18.825	7	18.37	41.63	60.00	12.30	37.70	50.00	Phase 1	10.28
19.158	7	19.25	40.75	60.00	13.18	36.82	50.00	Phase 1	10.30
22.076	8	21.70	38.30	60.00	15.84	34.16	50.00	Phase 1	10.34
23.988	8	22.39	37.61	60.00	16.48	33.52	50.00	Phase 1	10.35
24.011	8	22.24	37.76	60.00	16.36	33.64	50.00	Phase 1	10.35
24.056	8	22.70	37.30	60.00	16.83	33.17	50.00	Phase 1	10.35

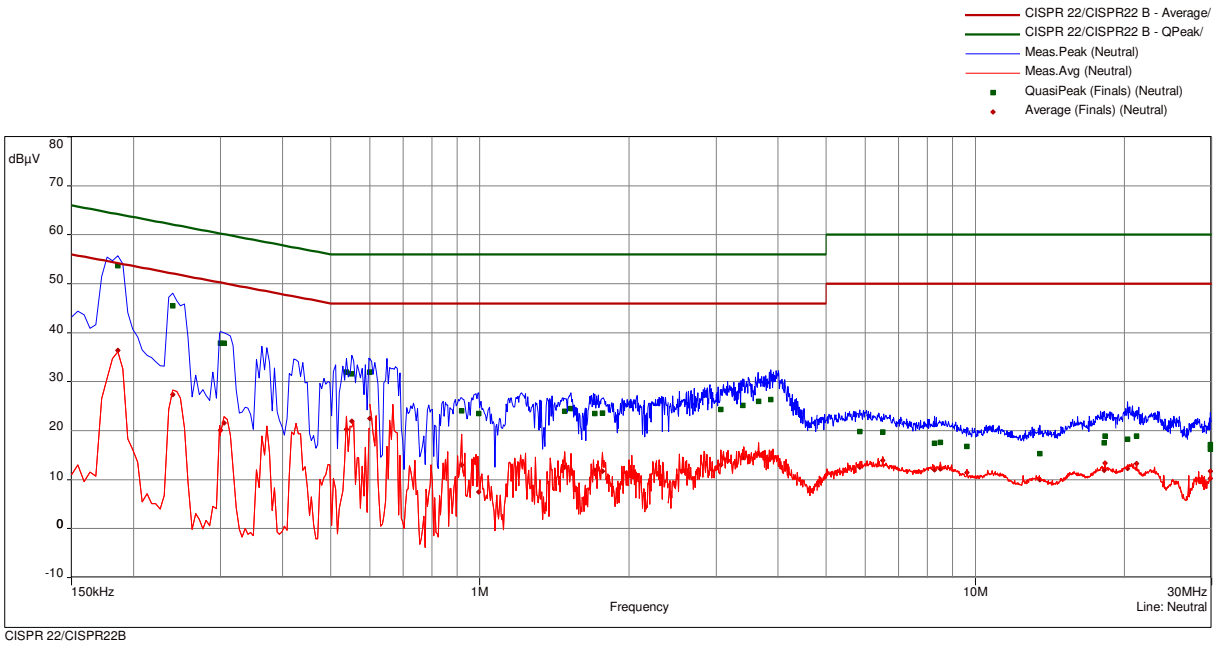
FCC ID: O2FM260SE

Frequency (MHz)	SR	QuasiPeak (dBµV)	QP Margin	QP Limit	Average (dBµV)	AV Margin	AV Limit	Line	Correction (dB)
0.186	9	52.71	11.50	64.21	33.25	20.97	54.21	Neutral	9.83
0.245	9	41.77	20.18	61.94	18.41	33.54	51.94	Neutral	9.82
0.254	9	42.78	18.87	61.64	24.69	26.95	51.64	Neutral	9.82
0.309	10	35.84	24.16	60.00	16.44	33.56	50.00	Neutral	9.80
0.390	10	32.55	25.51	58.06	20.46	27.60	48.06	Neutral	9.80
0.516	10	32.58	23.42	56.00	18.57	27.43	46.00	Neutral	9.80
0.566	10	33.12	22.88	56.00	19.85	26.15	46.00	Neutral	9.80
0.641	11	32.81	23.19	56.00	19.33	26.67	46.00	Neutral	9.80
0.645	11	33.57	22.43	56.00	20.52	25.48	46.00	Neutral	9.80
0.861	11	27.09	28.91	56.00	10.84	35.16	46.00	Neutral	9.80
1.172	11	27.25	28.75	56.00	14.89	31.11	46.00	Neutral	9.79
1.430	12	25.82	30.18	56.00	12.86	33.14	46.00	Neutral	9.78
1.646	12	26.70	29.30	56.00	12.03	33.97	46.00	Neutral	9.78
1.830	12	25.01	30.99	56.00	11.70	34.30	46.00	Neutral	9.79
1.839	12	25.40	30.60	56.00	11.53	34.47	46.00	Neutral	9.79
3.368	13	28.26	27.74	56.00	14.12	31.88	46.00	Neutral	9.81
3.638	13	28.69	27.31	56.00	14.30	31.70	46.00	Neutral	9.81
3.863	13	28.87	27.13	56.00	13.70	32.30	46.00	Neutral	9.81
6.002	14	21.15	38.85	60.00	11.84	38.16	50.00	Neutral	9.82
6.375	14	21.05	38.95	60.00	12.32	37.68	50.00	Neutral	9.81
6.875	14	20.07	39.93	60.00	11.65	38.35	50.00	Neutral	9.81
8.639	14	19.67	40.33	60.00	11.81	38.19	50.00	Neutral	9.82
9.623	15	19.48	40.52	60.00	13.26	36.74	50.00	Neutral	9.83
11.261	15	18.16	41.84	60.00	11.32	38.68	50.00	Neutral	9.85
18.285	15	20.16	39.84	60.00	14.28	35.72	50.00	Neutral	10.06
18.308	15	19.27	40.73	60.00	13.02	36.98	50.00	Neutral	10.06
21.171	16	20.86	39.14	60.00	14.69	35.31	50.00	Neutral	10.08
23.651	16	19.75	40.25	60.00	12.82	37.18	50.00	Neutral	9.98
24.056	16	19.93	40.07	60.00	13.62	36.38	50.00	Neutral	9.97

FCC ID: O2FM260SE

Operation mode:	charging in the docking station DS260 and simultaneous transmission of all radio modules (WLAN on CH 6)	Result: passed
Remarks:	test setup without notebook	
Date:	15.02.2017	
Tested by:	Willibald Probst	





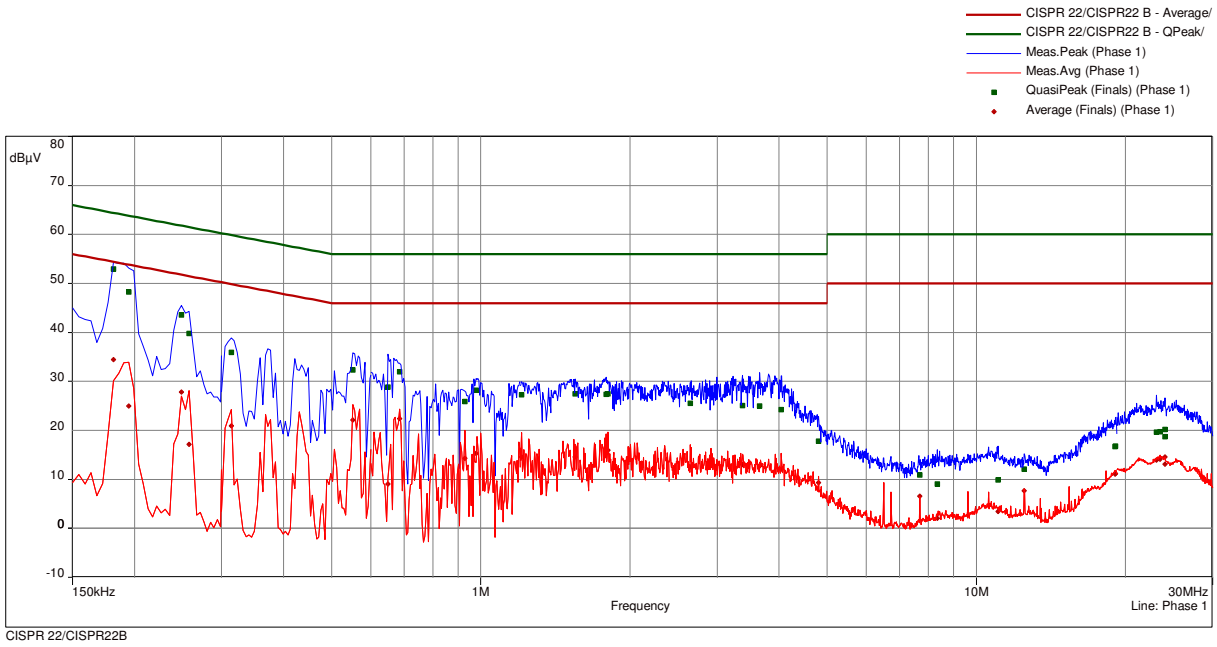
Frequency (MHz)	SR	QuasiPeak (dBµV)	QP Margin	QP Limit	Average (dBµV)	AV Margin	AV Limit	Line	Correction (dB)
0.182	1	55.00	9.41	64.42	36.69	17.73	54.42	Phase 1	9.82
0.186	1	54.71	9.51	64.21	37.88	16.33	54.21	Phase 1	9.82
0.240	1	45.21	16.88	62.10	23.48	28.62	52.10	Phase 1	9.81
0.245	1	45.59	16.35	61.94	28.26	23.68	51.94	Phase 1	9.81
0.305	2	38.01	22.11	60.12	21.61	28.51	50.12	Phase 1	9.80
0.548	2	31.81	24.19	56.00	20.23	25.77	46.00	Phase 1	9.81
0.566	2	32.18	23.82	56.00	20.92	25.08	46.00	Phase 1	9.80
0.668	3	32.52	23.48	56.00	21.51	24.49	46.00	Phase 1	9.80
0.672	3	32.18	23.82	56.00	21.02	24.98	46.00	Phase 1	9.80
1.001	3	26.84	29.16	56.00	13.45	32.55	46.00	Phase 1	9.80
1.199	3	26.59	29.41	56.00	14.14	31.86	46.00	Phase 1	9.79
1.245	4	26.60	29.40	56.00	14.48	31.52	46.00	Phase 1	9.79
1.506	4	26.74	29.26	56.00	15.18	30.82	46.00	Phase 1	9.77
1.794	4	26.31	29.69	56.00	14.75	31.25	46.00	Phase 1	9.78
1.920	4	24.35	31.65	56.00	12.21	33.79	46.00	Phase 1	9.80
2.522	5	25.10	30.90	56.00	13.42	32.58	46.00	Phase 1	9.78
3.215	5	23.63	32.37	56.00	11.72	34.28	46.00	Phase 1	9.80
3.687	5	24.53	31.47	56.00	11.53	34.47	46.00	Phase 1	9.81
3.885	5	25.14	30.86	56.00	12.06	33.94	46.00	Phase 1	9.81
4.886	6	14.97	41.03	56.00	5.25	40.75	46.00	Phase 1	9.82
6.501	6	11.92	48.08	60.00	9.19	40.81	50.00	Phase 1	9.84
7.694	6	10.34	49.66	60.00	6.13	43.87	50.00	Phase 1	9.85
9.336	6	9.04	50.96	60.00	2.42	47.58	50.00	Phase 1	9.88
9.618	7	11.77	48.23	60.00	7.19	42.81	50.00	Phase 1	9.89
10.622	7	10.89	49.11	60.00	4.51	45.49	50.00	Phase 1	9.92
19.091	7	16.45	43.55	60.00	10.78	39.22	50.00	Phase 1	10.29
19.154	7	17.08	42.92	60.00	11.35	38.65	50.00	Phase 1	10.30
23.435	8	19.43	40.57	60.00	13.83	36.17	50.00	Phase 1	10.34
23.808	8	19.70	40.30	60.00	13.99	36.01	50.00	Phase 1	10.35
24.047	8	19.31	40.69	60.00	13.89	36.11	50.00	Phase 1	10.35
25.802	8	18.95	41.05	60.00	13.38	36.62	50.00	Phase 1	10.36

FCC ID: O2FM260SE

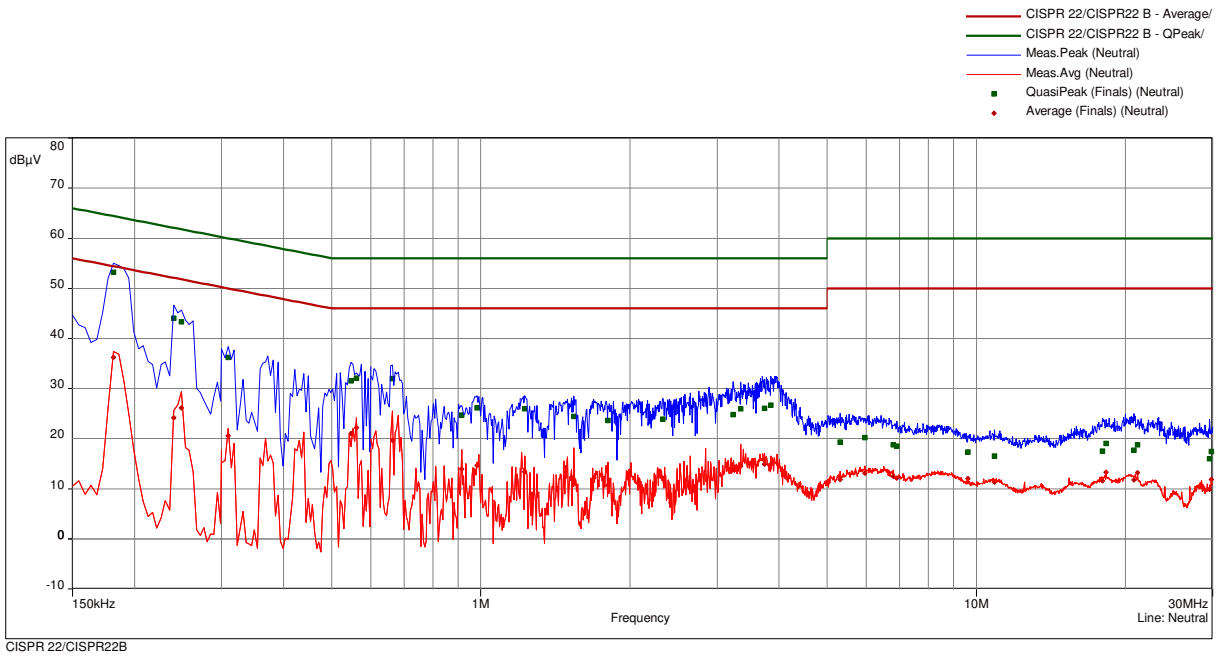
Frequency (MHz)	SR	QuasiPeak (dBµV)	QP Margin	QP Limit	Average (dBµV)	AV Margin	AV Limit	Line	Correction (dB)
0.186	9	53.70	10.51	64.21	36.38	17.83	54.21	Neutral	9.83
0.240	9	45.46	16.64	62.10	27.37	24.73	52.10	Neutral	9.82
0.300	10	37.86	22.38	60.24	20.08	30.16	50.24	Neutral	9.80
0.305	10	37.88	22.24	60.12	21.61	28.51	50.12	Neutral	9.80
0.539	10	31.94	24.06	56.00	20.29	25.71	46.00	Neutral	9.81
0.552	10	31.65	24.35	56.00	21.91	24.09	46.00	Neutral	9.81
0.600	11	31.96	24.04	56.00	22.46	23.54	46.00	Neutral	9.80
0.920	11	24.05	31.95	56.00	13.03	32.97	46.00	Neutral	9.80
0.996	11	23.52	32.48	56.00	7.51	38.49	46.00	Neutral	9.80
1.484	12	23.98	32.02	56.00	12.56	33.44	46.00	Neutral	9.78
1.529	12	24.47	31.53	56.00	11.69	34.31	46.00	Neutral	9.77
1.709	12	23.53	32.47	56.00	11.93	34.07	46.00	Neutral	9.78
1.767	12	23.58	32.42	56.00	11.76	34.24	46.00	Neutral	9.78
3.066	13	24.32	31.68	56.00	13.02	32.98	46.00	Neutral	9.79
3.395	13	25.15	30.85	56.00	14.46	31.54	46.00	Neutral	9.81
3.651	13	26.03	29.97	56.00	15.35	30.65	46.00	Neutral	9.81
3.867	13	26.35	29.65	56.00	14.38	31.62	46.00	Neutral	9.81
5.844	14	19.86	40.14	60.00	12.51	37.49	50.00	Neutral	9.82
6.501	14	19.70	40.30	60.00	13.96	36.04	50.00	Neutral	9.82
8.274	14	17.40	42.60	60.00	12.04	37.96	50.00	Neutral	9.82
8.495	14	17.61	42.39	60.00	12.19	37.81	50.00	Neutral	9.82
9.623	15	16.81	43.19	60.00	11.46	38.54	50.00	Neutral	9.83
13.488	15	15.35	44.65	60.00	9.94	40.06	50.00	Neutral	9.90
18.191	15	17.55	42.45	60.00	11.88	38.12	50.00	Neutral	10.05
18.281	15	18.90	41.10	60.00	13.40	36.60	50.00	Neutral	10.06
20.289	16	18.29	41.71	60.00	12.24	37.76	50.00	Neutral	10.12
21.167	16	18.91	41.09	60.00	13.27	36.73	50.00	Neutral	10.09
29.811	16	16.27	43.73	60.00	10.26	39.74	50.00	Neutral	9.72
29.825	16	17.14	42.86	60.00	11.68	38.32	50.00	Neutral	9.71

FCC ID: O2FM260SE

Operation mode:	charging in the docking station DS260 and simultaneous transmission of all radio modules (WLAN on CH 40)	Result: passed
Remarks:	test setup without notebook	
Date:	15.02.2017	
Tested by:	Willibald Probst	



CISPR 22/CISPR22B



CISPR 22/CISPR22B

Frequency (MHz)	SR	QuasiPeak (dBµV)	QP Margin	QP Limit	Average (dBµV)	AV Margin	AV Limit	Line	Correction (dB)
0.182	1	52.96	11.46	64.42	34.43	19.98	54.42	Phase 1	9.82
0.195	1	48.29	15.53	63.82	24.99	28.83	53.82	Phase 1	9.82
0.249	1	43.61	18.18	61.79	27.79	24.00	51.79	Phase 1	9.81
0.258	1	39.76	21.74	61.50	17.15	34.34	51.50	Phase 1	9.81
0.314	2	35.94	23.94	59.88	20.96	28.92	49.88	Phase 1	9.80
0.552	2	32.37	23.63	56.00	22.16	23.84	46.00	Phase 1	9.81
0.650	3	28.83	27.17	56.00	9.06	36.94	46.00	Phase 1	9.80
0.686	3	31.99	24.01	56.00	22.40	23.60	46.00	Phase 1	9.80
0.929	3	25.94	30.06	56.00	14.34	31.66	46.00	Phase 1	9.80
0.978	3	28.23	27.77	56.00	15.31	30.69	46.00	Phase 1	9.80
1.209	4	27.28	28.72	56.00	14.53	31.47	46.00	Phase 1	9.79
1.551	4	27.47	28.53	56.00	14.58	31.42	46.00	Phase 1	9.77
1.790	4	27.33	28.67	56.00	15.30	30.70	46.00	Phase 1	9.78
1.808	4	27.50	28.50	56.00	15.98	30.02	46.00	Phase 1	9.79
2.648	5	25.55	30.45	56.00	12.52	33.48	46.00	Phase 1	9.78
3.372	5	25.04	30.96	56.00	12.99	33.01	46.00	Phase 1	9.81
3.651	5	24.98	31.02	56.00	12.76	33.24	46.00	Phase 1	9.82
4.043	5	24.27	31.73	56.00	12.09	33.91	46.00	Phase 1	9.81
4.809	6	17.77	38.23	56.00	9.33	36.67	46.00	Phase 1	9.82
7.698	6	10.89	49.11	60.00	6.58	43.42	50.00	Phase 1	9.85
8.346	6	9.07	50.93	60.00	2.06	47.94	50.00	Phase 1	9.86
11.072	7	9.90	50.10	60.00	3.45	46.55	50.00	Phase 1	9.94
12.507	7	12.13	47.87	60.00	7.64	42.36	50.00	Phase 1	10.00
19.041	7	16.69	43.31	60.00	11.07	38.93	50.00	Phase 1	10.29
19.091	7	16.75	43.25	60.00	11.21	38.79	50.00	Phase 1	10.29
23.097	8	19.62	40.38	60.00	13.90	36.10	50.00	Phase 1	10.34
23.493	8	19.76	40.24	60.00	14.13	35.87	50.00	Phase 1	10.34
24.029	8	18.73	41.27	60.00	13.11	36.89	50.00	Phase 1	10.35
24.056	8	20.22	39.78	60.00	14.55	35.45	50.00	Phase 1	10.35

Frequency (MHz)	SR	QuasiPeak (dBµV)	QP Margin	QP Limit	Average (dBµV)	AV Margin	AV Limit	Line	Correction (dB)
0.182	9	53.26	11.16	64.42	36.25	18.16	54.42	Neutral	9.83
0.240	9	44.07	18.02	62.10	24.19	27.91	52.10	Neutral	9.82
0.249	9	43.31	18.48	61.79	26.15	25.64	51.79	Neutral	9.82
0.309	10	36.22	23.78	60.00	20.59	29.41	50.00	Neutral	9.80
0.548	10	31.58	24.42	56.00	21.04	24.96	46.00	Neutral	9.81
0.561	10	32.05	23.95	56.00	22.21	23.79	46.00	Neutral	9.81
0.663	11	31.96	24.04	56.00	19.66	26.34	46.00	Neutral	9.80
0.915	11	24.69	31.31	56.00	13.94	32.06	46.00	Neutral	9.80
0.983	11	26.12	29.88	56.00	14.62	31.38	46.00	Neutral	9.80
1.227	12	25.94	30.06	56.00	13.35	32.65	46.00	Neutral	9.79
1.542	12	24.45	31.55	56.00	11.80	34.20	46.00	Neutral	9.77
1.808	12	23.67	32.33	56.00	10.66	35.34	46.00	Neutral	9.79
2.330	12	23.93	32.07	56.00	12.10	33.90	46.00	Neutral	9.79
3.228	13	24.82	31.18	56.00	13.85	32.15	46.00	Neutral	9.80
3.345	13	25.99	30.01	56.00	14.59	31.41	46.00	Neutral	9.80
3.741	13	26.04	29.96	56.00	14.96	31.04	46.00	Neutral	9.81
3.854	13	26.69	29.31	56.00	14.94	31.06	46.00	Neutral	9.81
5.309	14	19.33	40.67	60.00	11.83	38.17	50.00	Neutral	9.81
5.966	14	20.22	39.78	60.00	13.12	36.88	50.00	Neutral	9.82
6.803	14	18.74	41.26	60.00	12.50	37.50	50.00	Neutral	9.81
6.920	14	18.49	41.51	60.00	12.13	37.87	50.00	Neutral	9.82
9.623	15	17.38	42.62	60.00	12.07	37.93	50.00	Neutral	9.83
10.883	15	16.56	43.44	60.00	11.30	38.70	50.00	Neutral	9.84
17.975	15	17.49	42.51	60.00	11.62	38.38	50.00	Neutral	10.04
18.285	15	19.04	40.96	60.00	13.28	36.72	50.00	Neutral	10.06
20.829	16	17.72	42.28	60.00	11.73	38.27	50.00	Neutral	10.10
21.171	16	18.81	41.19	60.00	13.18	36.82	50.00	Neutral	10.08
29.568	16	15.98	44.02	60.00	9.88	40.12	50.00	Neutral	9.73
29.829	16	17.47	42.53	60.00	11.82	38.18	50.00	Neutral	9.71

5.2 Spurious emissions

For test instruments and accessories used see section 6 Part **SER 2**, **SER 3**.

5.2.1 Description of the test locations

Test location: OATS1
Test distance: 3 metres

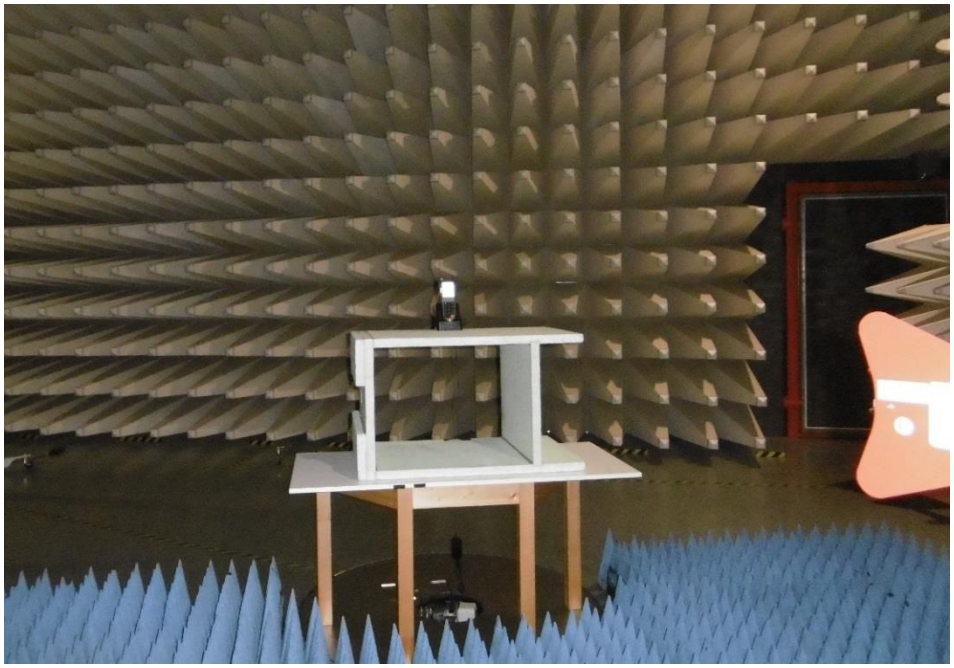
Test location: Anechoic chamber 1
Test distance: 3 metres

Test location: Anechoic chamber 1
Test distance: 1 metre

5.2.2 Photo documentation of the test set-up

30 MHz < f < 1 GHz:

1 GHz < f < 18 GHz



18 GHz < f < 40 GHz

5.2.3 Applicable standard

FCC Part 15, Section 15.209

Instrument settings:

30 MHz – 1000 MHz:	RBW:	120 kHz
1 GHz – 40 GHz	RBW:	1 MHz

5.2.4 Test result

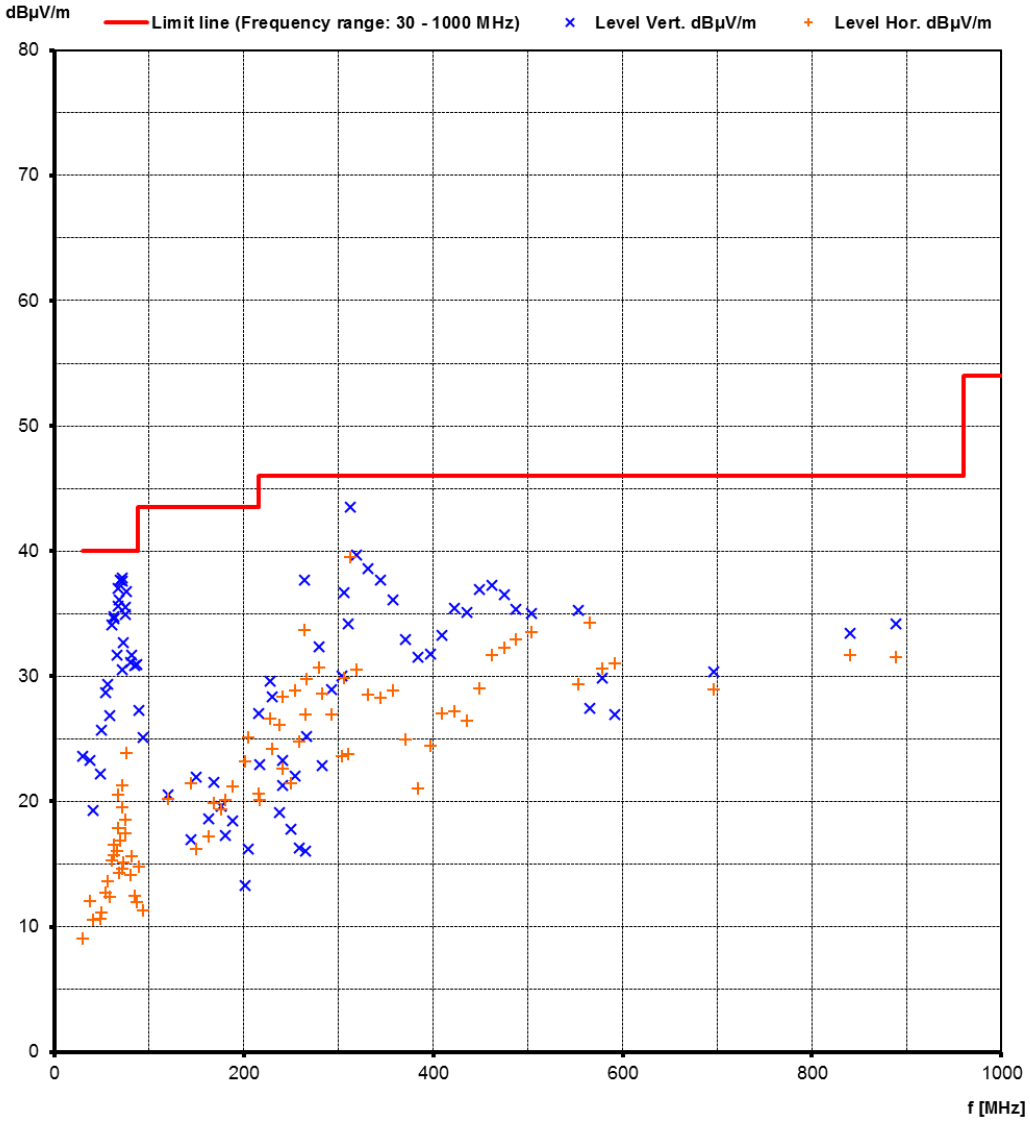
30 MHz < f < 1 GHz:

simultaneous transmission WLAN CH6, Bluetooth and RFID

Frequency (MHz)	Reading Vert. (dBµV)	Reading Hor. (dBµV)	Correct. Vert. (dB)	Correct. Hor. (dB)	Level Vert. (dBµV/m)	Level Hor. (dBµV/m)	Limit (dBµV/m)	Dlimit (dB)
30.00	9.5	-3.5	14.1	12.5	23.6	9.0	40.0	-16.4
37.50	9.0	-1.0	14.3	13.1	23.3	12.1	40.0	-16.7
41.10	4.5	-3.0	14.8	13.6	19.3	10.6	40.0	-20.7
48.03	7.0	-3.5	15.2	14.1	22.2	10.6	40.0	-17.8
49.70	10.5	-3.0	15.2	14.2	25.7	11.2	40.0	-14.3
54.40	13.7	-1.3	15.0	14.0	28.7	12.7	40.0	-11.3
56.60	14.5	-0.3	14.9	13.9	29.4	13.6	40.0	-10.6
58.00	12.0	-1.5	14.8	13.9	26.8	12.4	40.0	-13.2
60.80	19.4	1.5	14.7	13.8	34.1	15.3	40.0	-5.9
62.30	20.0	2.8	14.6	13.7	34.6	16.5	40.0	-5.4
63.20	20.3	2.0	14.5	13.7	34.8	15.7	40.0	-5.2
66.00	17.4	2.5	14.3	13.5	31.7	16.0	40.0	-8.3
66.90	21.4	4.4	14.2	13.5	35.6	17.9	40.0	-4.4
67.30	22.8	7.1	14.2	13.5	37.0	20.6	40.0	-3.0
68.70	22.0	0.9	14.1	13.4	36.1	14.3	40.0	-3.9
69.20	23.6	3.5	14.1	13.4	37.7	16.9	40.0	-2.3
71.00	16.8	1.5	13.7	13.1	30.5	14.6	40.0	-9.5
71.50	24.0	6.6	13.6	13.0	37.6	19.6	40.0	-2.4
72.01	24.4	8.5	13.4	12.8	37.8	21.3	40.0	-2.2
72.80	19.5	2.5	13.2	12.6	32.7	15.1	40.0	-7.3
74.40	22.2	5.2	12.7	12.2	34.9	17.4	40.0	-5.1
75.10	23.0	6.5	12.5	12.0	35.5	18.5	40.0	-4.5
75.70	24.4	12.0	12.3	11.9	36.7	23.9	40.0	-3.3
79.90	20.0	3.3	11.1	10.8	31.1	14.1	40.0	-8.9
81.60	21.0	5.0	10.7	10.6	31.7	15.6	40.0	-8.3
84.50	20.8	2.2	10.1	10.3	30.9	12.5	40.0	-9.1
86.90	21.4	2.0	9.5	10.0	30.9	12.0	40.0	-9.1
88.90	18.2	5.0	9.1	9.8	27.3	14.8	43.5	-16.2
93.40	16.3	1.5	8.8	9.8	25.1	11.3	43.5	-18.4
120.02	8.1	7.3	12.4	12.9	20.5	20.2	43.5	-23.0
144.00	3.4	7.0	13.6	14.4	17.0	21.4	43.5	-22.1
149.54	8.0	1.5	13.9	14.7	21.9	16.2	43.5	-21.6
162.54	4.2	2.0	14.4	15.2	18.6	17.2	43.5	-24.9
168.00	7.5	5.0	14.1	14.8	21.6	19.8	43.5	-21.9
175.54	6.0	5.0	13.6	14.4	19.6	19.4	43.5	-23.9
180.00	4.0	6.0	13.3	14.1	17.3	20.1	43.5	-23.4
188.54	6.0	8.0	12.4	13.2	18.4	21.2	43.5	-22.3
201.54	2.0	11.2	11.3	12.0	13.3	23.2	43.5	-20.3
204.80	4.7	13.0	11.5	12.1	16.2	25.1	43.5	-18.4
216.00	15.0	8.0	12.1	12.6	27.1	20.6	43.5	-16.4
217.00	10.8	7.5	12.1	12.6	22.9	20.1	46.0	-23.1
227.54	17.0	13.5	12.6	13.1	29.6	26.6	46.0	-16.4

FCC ID: O2FM260SE

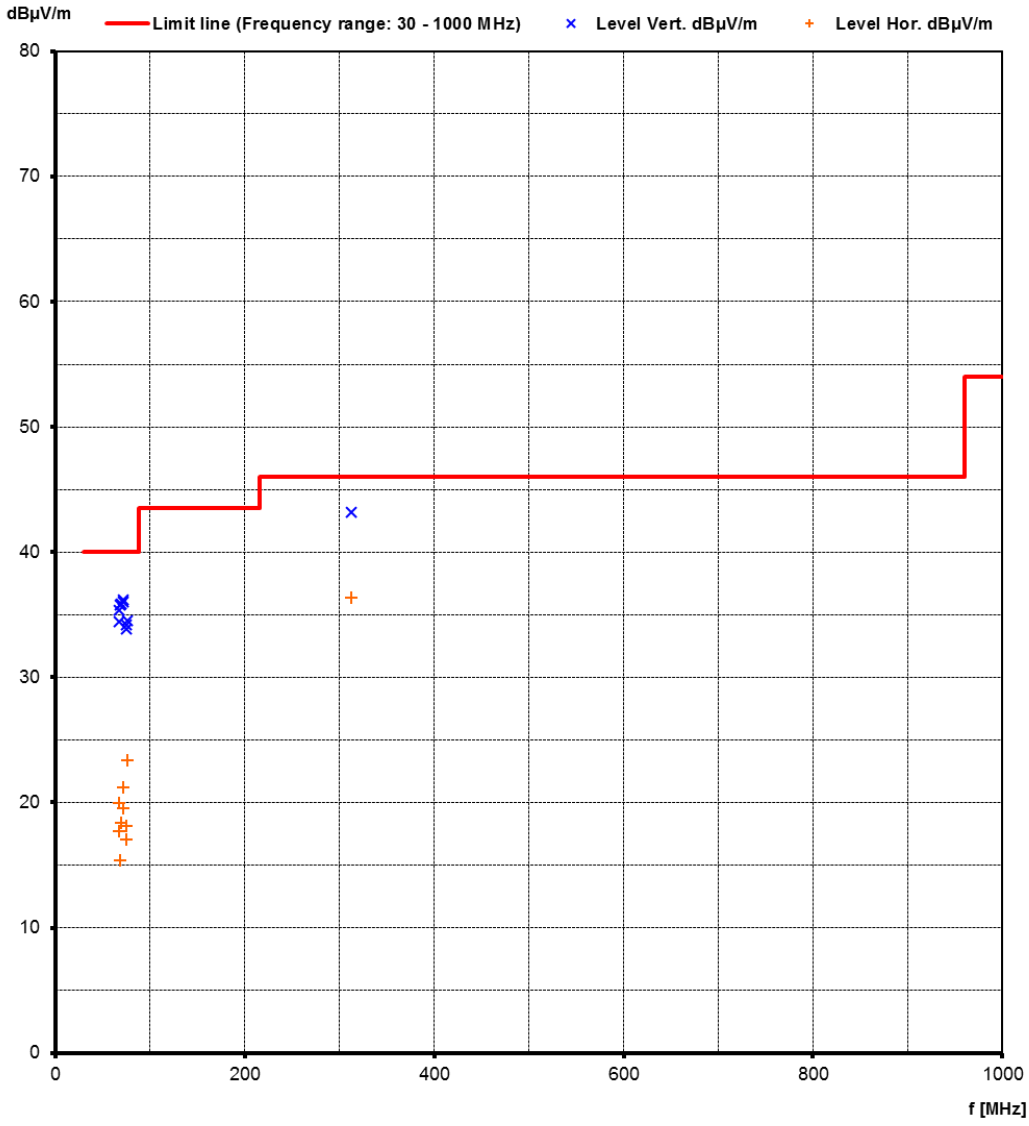
Frequency (MHz)	Reading Vert. (dBµV)	Reading Hor. (dBµV)	Correct. Vert. (dB)	Correct. Hor. (dB)	Level Vert. (dBµV/m)	Level Hor. (dBµV/m)	Limit (dBµV/m)	Dlimit (dB)
229.90	15.6	11.0	12.8	13.2	28.4	24.2	46.0	-17.6
237.60	6.0	12.6	13.2	13.5	19.2	26.1	46.0	-19.9
240.54	10.0	14.8	13.3	13.6	23.3	28.4	46.0	-17.6
240.54	8.0	9.0	13.3	13.6	21.3	22.6	46.0	-23.4
250.00	4.0	7.5	13.8	14.0	17.8	21.5	46.0	-24.5
253.54	8.0	14.7	14.0	14.2	22.0	28.9	46.0	-17.1
258.00	2.0	10.4	14.3	14.4	16.3	24.8	46.0	-21.2
264.00	23.0	19.0	14.7	14.7	37.7	33.7	46.0	-8.3
265.13	1.3	12.2	14.7	14.7	16.0	26.9	46.0	-19.1
266.54	10.4	15.0	14.8	14.8	25.2	29.8	46.0	-16.2
279.54	16.7	15.2	15.6	15.5	32.3	30.7	46.0	-13.7
282.80	7.0	13.0	15.8	15.6	22.8	28.6	46.0	-17.4
292.54	12.5	10.8	16.4	16.1	28.9	26.9	46.0	-17.1
303.14	13.0	7.0	17.0	16.6	30.0	23.6	46.0	-16.0
305.54	19.6	13.2	17.1	16.7	36.7	29.9	46.0	-9.3
310.05	17.0	7.0	17.2	16.8	34.2	23.8	46.0	-11.8
312.00	26.3	22.7	17.3	16.8	43.6	39.5	46.0	-2.4
318.55	22.2	13.5	17.4	17.0	39.6	30.5	46.0	-6.4
331.55	20.8	11.1	17.8	17.4	38.6	28.5	46.0	-7.4
344.56	19.5	10.4	18.2	17.8	37.7	28.2	46.0	-8.3
357.56	17.5	10.6	18.6	18.2	36.1	28.8	46.0	-9.9
370.56	14.0	6.3	19.0	18.6	33.0	24.9	46.0	-13.0
383.56	12.2	2.0	19.4	19.0	31.6	21.0	46.0	-14.4
396.57	12.0	5.0	19.7	19.4	31.7	24.4	46.0	-14.3
409.57	13.2	7.2	20.1	19.8	33.3	27.0	46.0	-12.7
422.57	15.0	7.0	20.4	20.2	35.4	27.2	46.0	-10.6
435.57	14.3	5.9	20.8	20.5	35.1	26.4	46.0	-10.9
448.57	15.8	8.2	21.1	20.9	36.9	29.1	46.0	-9.1
461.58	15.8	10.5	21.5	21.2	37.3	31.7	46.0	-8.7
474.58	14.7	10.7	21.8	21.6	36.5	32.3	46.0	-9.5
487.58	13.2	11.0	22.2	21.9	35.4	32.9	46.0	-10.6
503.80	12.4	11.2	22.6	22.4	35.0	33.6	46.0	-11.0
552.97	11.2	5.5	24.1	23.9	35.3	29.4	46.0	-10.7
565.59	3.0	10.0	24.4	24.2	27.4	34.2	46.0	-11.8
578.60	5.0	6.0	24.8	24.6	29.8	30.6	46.0	-15.4
591.60	1.7	6.0	25.2	25.0	26.9	31.0	46.0	-15.0
696.12	3.4	2.5	26.9	26.4	30.3	28.9	46.0	-15.7
840.15	3.3	2.0	30.1	29.7	33.4	31.7	46.0	-12.6
888.15	3.3	1.0	30.9	30.5	34.2	31.5	46.0	-11.8


dBµV/m
Limit line (Frequency range: 30 - 1000 MHz)
Level Vert. dBµV/m
Level Hor. dBµV/m
80
70
60
50
40
30
20
10
0
0
200
400
600
800
1000
f [MHz]

FCC ID: O2FM260SE

simultaneous transmission WLAN CH40, Bluetooth and RFID
(only the 10 highest emissions from simultaneous transmission of WLAN CH6, Bluetooth and RFID are re-measured)

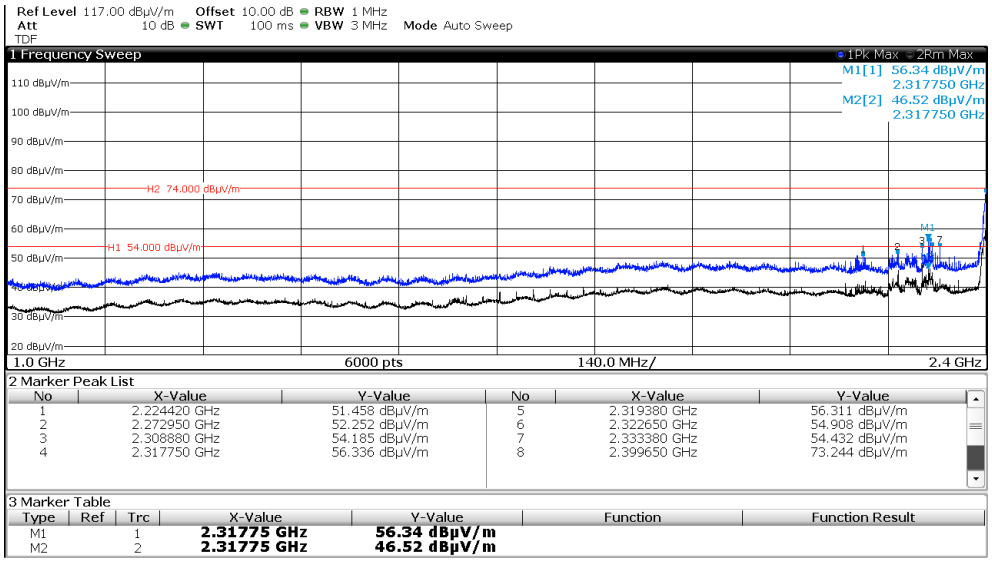
Frequency (MHz)	Reading Vert. (dBµV)	Reading Hor. (dBµV)	Correct. Vert. (dB)	Correct. Hor. (dB)	Level Vert. (dBµV/m)	Level Hor. (dBµV/m)	Limit (dBµV/m)	Dlimit (dB)
72.01	22.6	8.4	13.4	12.8	36.0	21.2	40.0	-4.0
69.20	21.8	5.0	14.1	13.4	35.9	18.4	40.0	-4.1
71.50	22.6	6.6	13.6	13.0	36.2	19.6	40.0	-3.8
312.00	25.9	19.5	17.3	16.8	43.2	36.3	46.0	-2.8
67.30	20.2	6.5	14.2	13.5	34.4	20.0	40.0	-5.6
75.70	22.2	11.5	12.3	11.9	34.5	23.4	40.0	-5.5
68.70	21.7	2.0	14.1	13.4	35.8	15.4	40.0	-4.2
66.90	21.1	4.2	14.2	13.5	35.3	17.7	40.0	-4.7
75.10	21.7	6.1	12.5	12.0	34.2	18.1	40.0	-5.8
74.40	21.1	4.8	12.7	12.2	33.8	17.0	40.0	-6.2

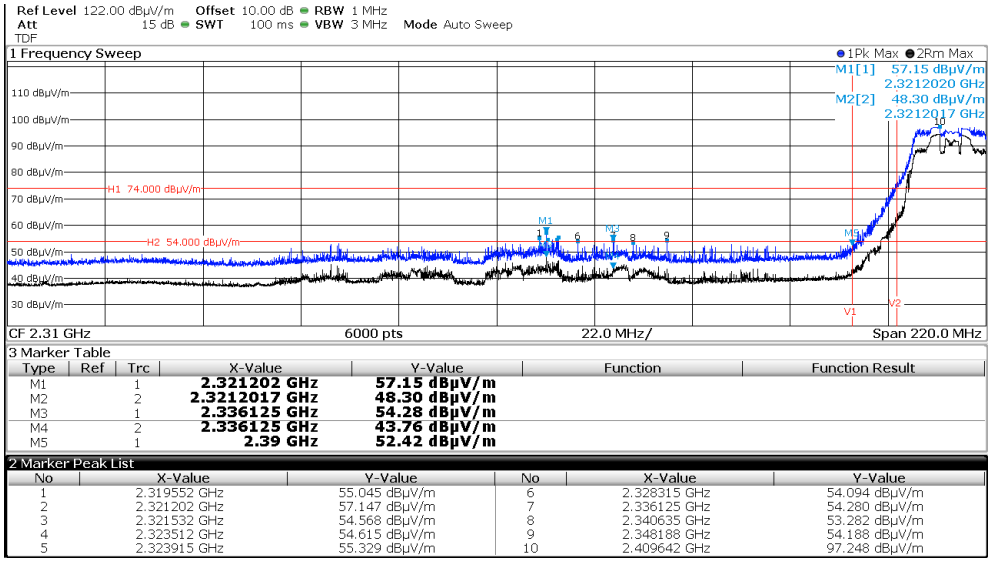


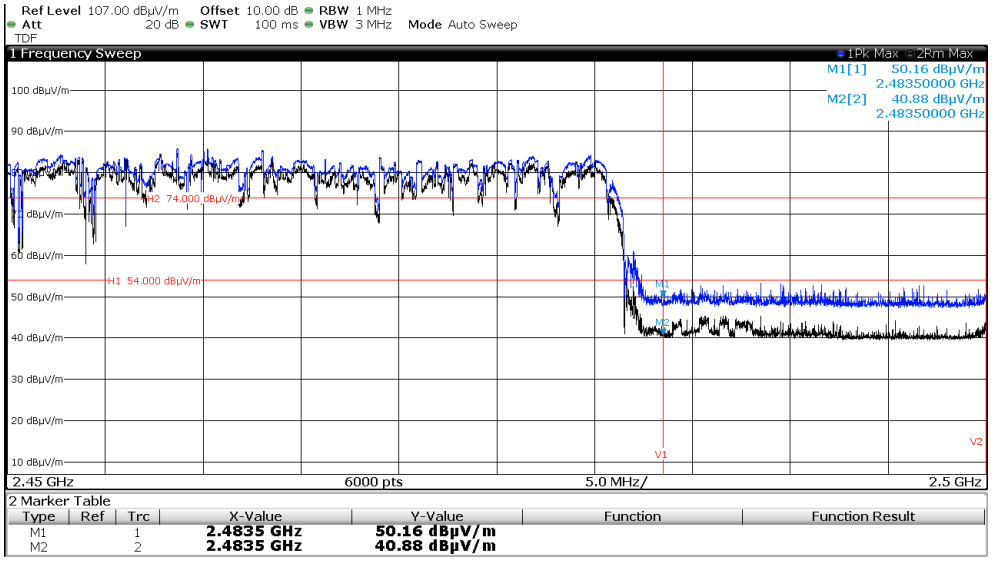
1 GHz < f < 40 GHz:

simultaneous transmission WLAN CH1, Bluetooth and RFID

Frequency (MHz)	Level PK dB(µV/m)	Level AV dB(µV/m)	Limit PK dB(µV/m)	Margin PK (dB)	Limit AV dB(µV/m)	Margin AV (dB)
2318	56.3	46.5	74.0	-17.7	54.0	-7.5
2321	57.2	48.3	74.0	-16.8	54.0	-5.7
2336	54.3	43.8	74.0	-19.7	54.0	-10.2
2501	54.9	46.4	74.0	-19.1	54.0	-7.6
4824	52.5	51.8	74.0	-21.5	54.0	-2.2
4918	53.5	50.0	74.0	-20.5	54.0	-4.0
17904	51.9	42.6	74.0	-22.1	54.0	-11.4
36732	36.5	-	74.0	-37.5	54.0	-

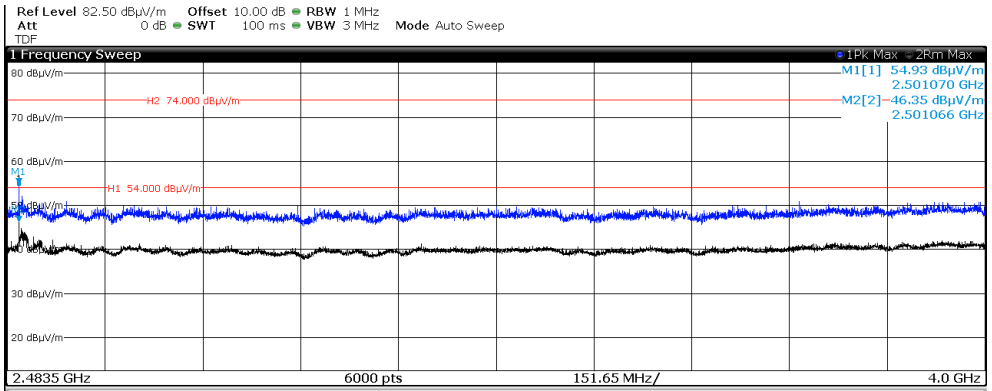






2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**2.4835 GHz**	**50.16 dBµV/m**		
M2		2	**2.4835 GHz**	**40.88 dBµV/m**		

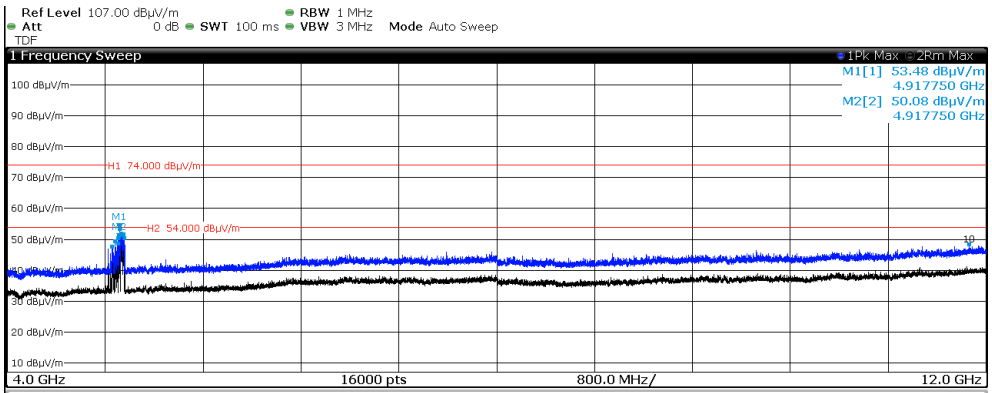


2 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	2.501070 GHz	54.926 dBµV/m			

3 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**2.50107 GHz**	**54.93 dBµV/m**		
M2		2	**2.501066 GHz**	**46.35 dBµV/m**		



2 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	4.857750 GHz	47.708 dBµV/m	6	4.917750 GHz	53.478 dBµV/m
2	4.880250 GHz	49.324 dBµV/m	7	4.929250 GHz	51.911 dBµV/m
3	4.902250 GHz	48.573 dBµV/m	8	4.952250 GHz	51.750 dBµV/m
4	4.907750 GHz	50.457 dBµV/m	9	4.955750 GHz	50.407 dBµV/m
5	4.912250 GHz	50.551 dBµV/m	10	11.862750 GHz	48.340 dBµV/m

3 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**4.91775 GHz**	**53.48 dBµV/m**		
M2		2	**4.91775 GHz**	**50.08 dBµV/m**		

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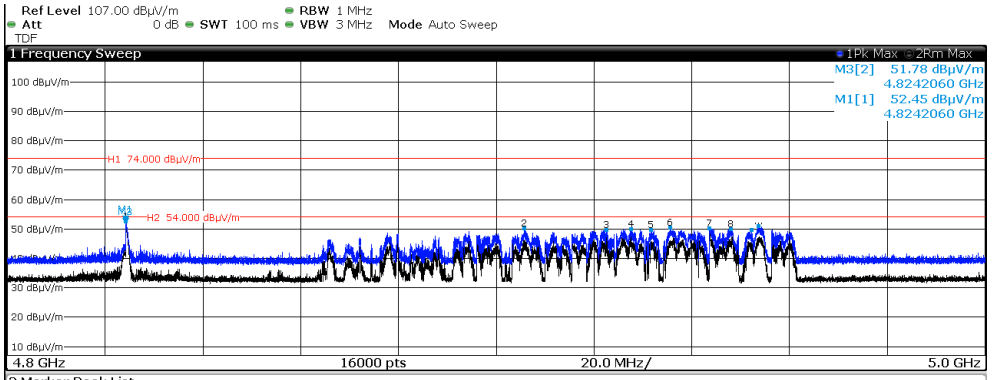
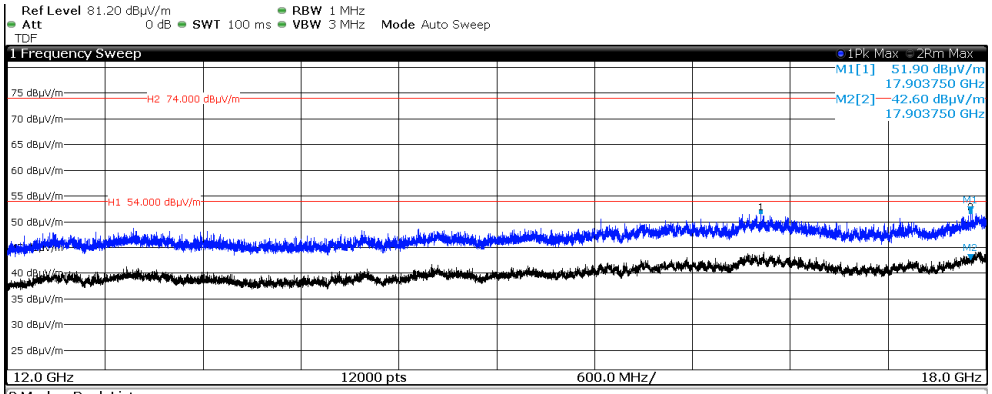


2 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	4.824206 GHz	52.447 dBµV/m	6	4.935594 GHz	50.387 dBµV/m
2	4.905781 GHz	50.119 dBµV/m	7	4.943594 GHz	50.312 dBµV/m
3	4.922481 GHz	49.726 dBµV/m	8	4.947919 GHz	50.013 dBµV/m
4	4.927544 GHz	49.956 dBµV/m	9	4.952206 GHz	49.751 dBµV/m
5	4.931694 GHz	49.664 dBµV/m	10	4.953706 GHz	50.975 dBµV/m

3 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**4.824206 GHz**	**52.45 dBµV/m**		
M2		2	**4.824206 GHz**	**51.78 dBµV/m**		
M3		2	**4.824206 GHz**	**51.78 dBµV/m**		

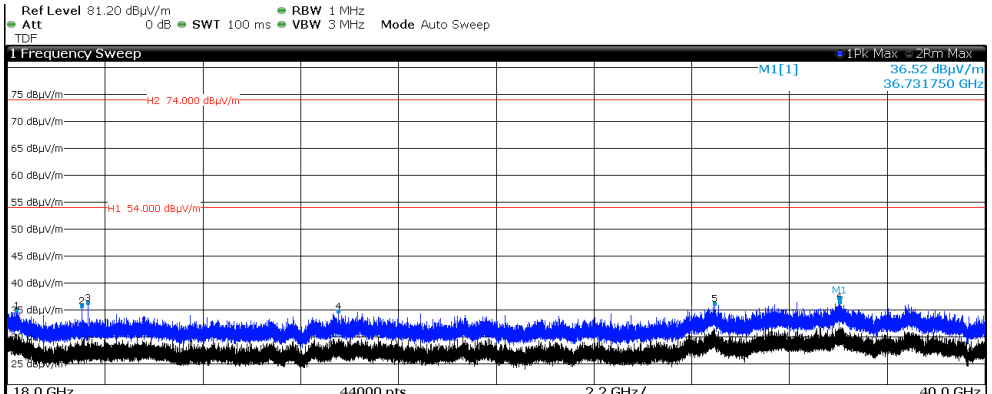


2 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	16.620250 GHz	51.808 dBµV/m	2	17.903750 GHz	51.895 dBµV/m

3 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**17.90375 GHz**	**51.90 dBµV/m**		
M2		2	**17.90375 GHz**	**42.60 dBµV/m**		



2 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	18.210250 GHz	34.883 dBµV/m	4	25.450250 GHz	34.781 dBµV/m
2	19.675750 GHz	35.789 dBµV/m	5	33.908250 GHz	36.189 dBµV/m
3	19.819750 GHz	36.336 dBµV/m	6	36.731750 GHz	36.519 dBµV/m

3 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**36.73175 GHz**	**36.52 dBµV/m**		

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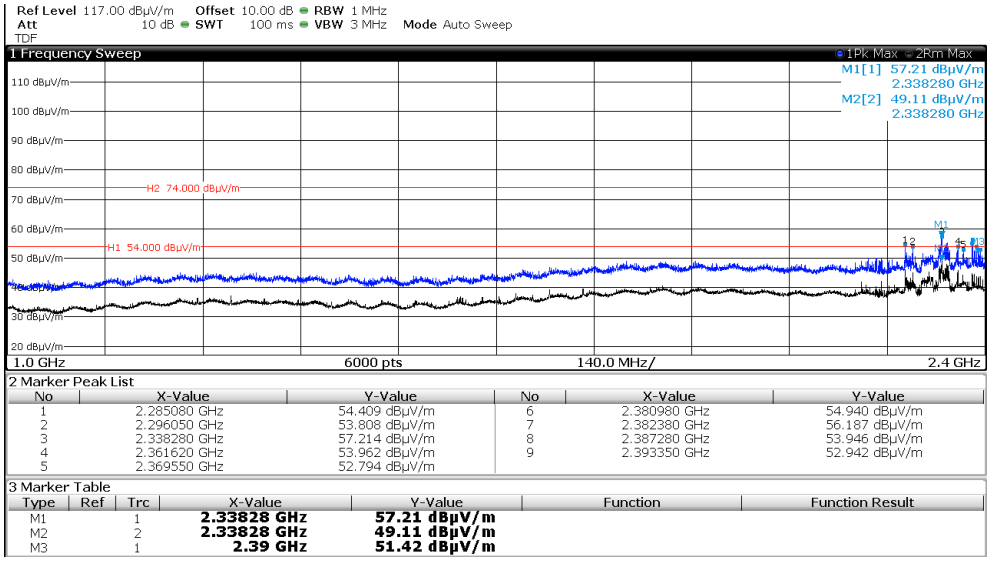
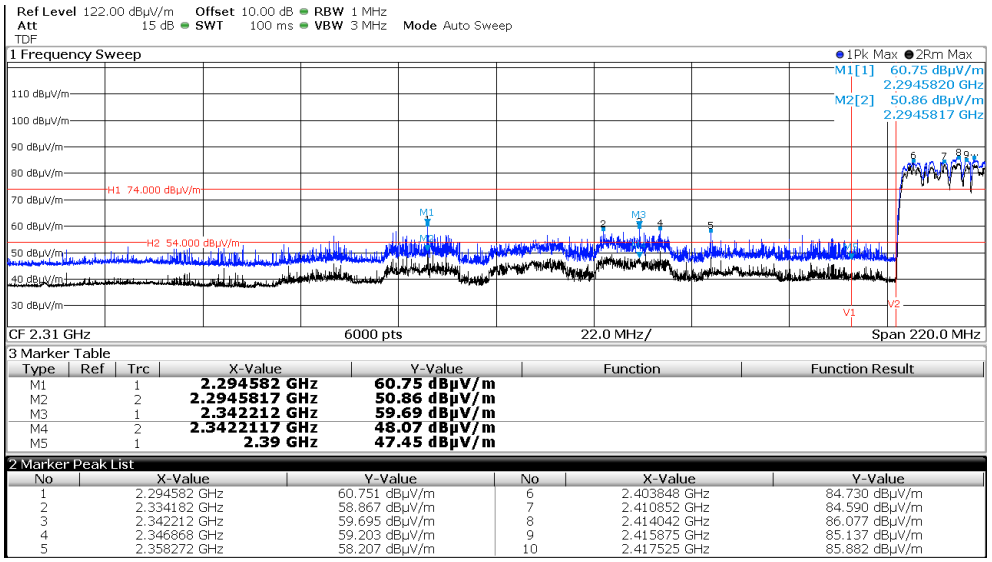
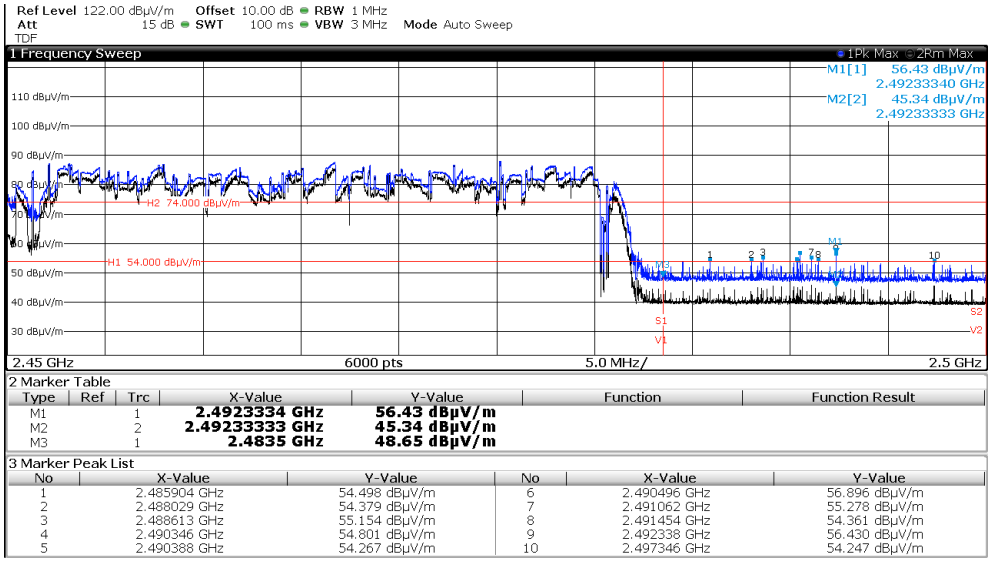
simultaneous transmission WLAN CH6, Bluetooth and RFID

Frequency	Level PK	Level AV	Limit PK	Margin PK	Limit AV	Margin AV
(MHz)	dB(µV/m)	dB(µV/m)	dB(µV/m)	(dB)	dB(µV/m)	(dB)
2338	57.2	49.11	74.0	-16.8	54.0	-4.9
2295	60.8	50.9	74.0	-13.2	54.0	-3.1
2342	59.7	48.1	74.0	-14.3	54.0	-5.9
2492	56.4	45.3	74.0	-17.6	54.0	-8.7
2536	56.2	45.6	74.0	-17.8	54.0	-8.4
4892	54.8	51.6	74.0	-19.2	54.0	-2.4
4952	-	52.7	74.0	-	54.0	-1.3
16830	51.9	42.7	74.0	-22.1	54.0	-11.3
36585	36.8	-	74.0	-37.2	54.0	-





FCC ID: O2FM260SE

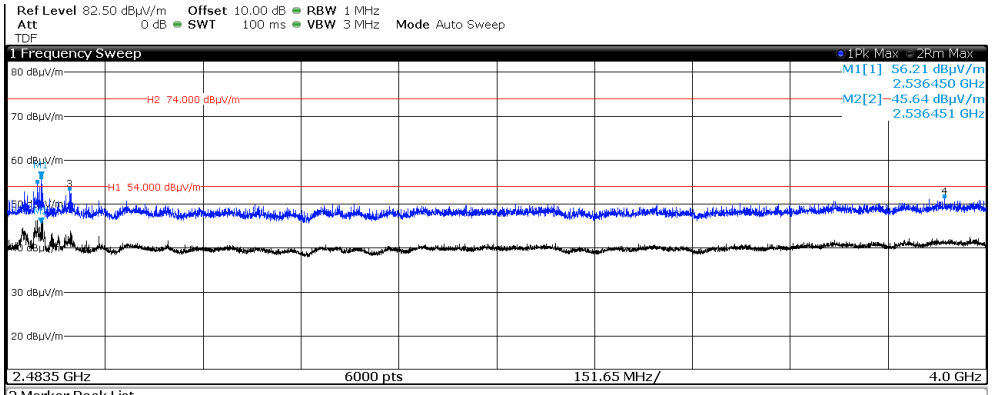


2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**2.4923334 GHz**	**56.43 dBµV/m**		
M2		2	**2.49233333 GHz**	**45.34 dBµV/m**		
M3		1	**2.4835 GHz**	**48.65 dBµV/m**		

3 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	2.485904 GHz	54.498 dBµV/m	6	2.490496 GHz	56.896 dBµV/m
2	2.488029 GHz	54.379 dBµV/m	7	2.491062 GHz	55.278 dBµV/m
3	2.488613 GHz	55.154 dBµV/m	8	2.491454 GHz	54.361 dBµV/m
4	2.490346 GHz	54.801 dBµV/m	9	2.492338 GHz	56.430 dBµV/m
5	2.490388 GHz	54.267 dBµV/m	10	2.497346 GHz	54.247 dBµV/m

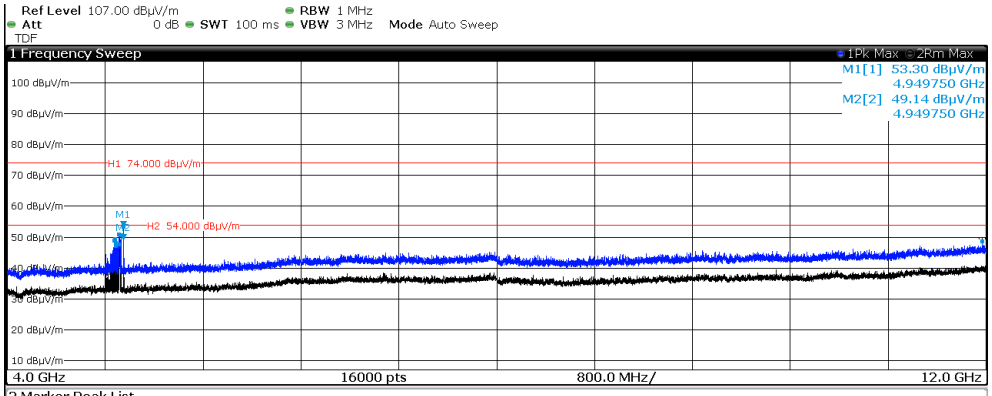


2 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	2.530390 GHz	55.136 dBµV/m	3	2.579920 GHz	53.567 dBµV/m
2	2.536450 GHz	56.208 dBµV/m	4	3.935420 GHz	51.825 dBµV/m

3 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**2.53645 GHz**	**56.21 dBµV/m**		
M2		2	**2.536451 GHz**	**45.64 dBµV/m**		

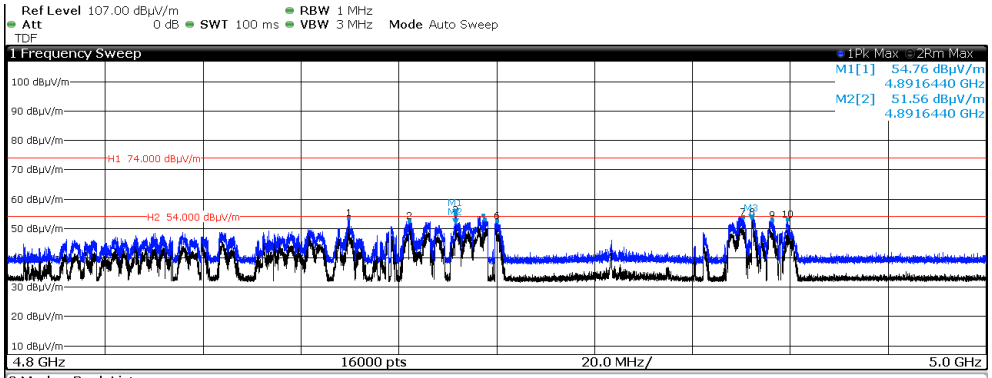


2 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	4.873750 GHz	48.899 dBµV/m	6	4.910250 GHz	47.531 dBµV/m
2	4.880250 GHz	49.281 dBµV/m	7	4.913750 GHz	50.828 dBµV/m
3	4.887250 GHz	47.127 dBµV/m	8	4.927750 GHz	50.516 dBµV/m
4	4.889250 GHz	48.243 dBµV/m	9	4.949750 GHz	53.302 dBµV/m
5	4.898250 GHz	47.717 dBµV/m	10	11.967250 GHz	48.582 dBµV/m

3 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**4.94975 GHz**	**53.30 dBµV/m**		
M2		2	**4.94975 GHz**	**49.14 dBµV/m**		

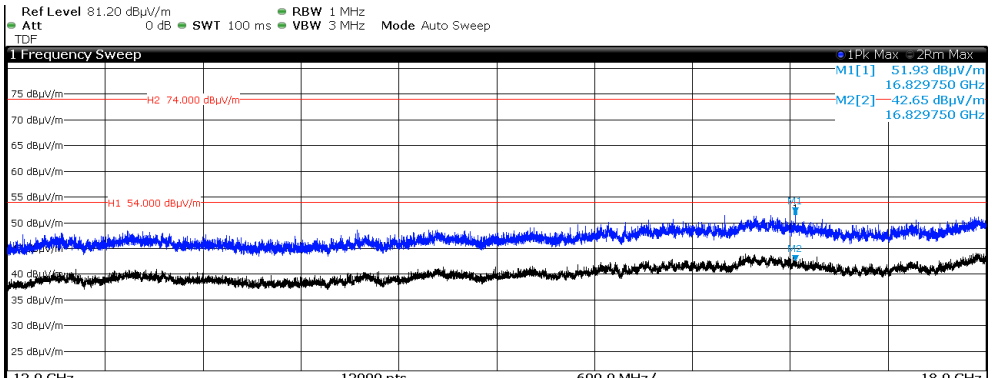


2 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	4.869819 GHz	53.696 dBµV/m	6	4.900156 GHz	52.425 dBµV/m
2	4.882144 GHz	52.606 dBµV/m	7	4.950281 GHz	53.763 dBµV/m
3	4.891644 GHz	54.764 dBµV/m	8	4.952244 GHz	53.766 dBµV/m
4	4.897181 GHz	54.336 dBµV/m	9	4.956356 GHz	52.802 dBµV/m
5	4.897631 GHz	53.192 dBµV/m	10	4.959406 GHz	53.135 dBµV/m

3 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**4.891644 GHz**	**54.76 dBµV/m**		
M2		2	**4.891644 GHz**	**51.56 dBµV/m**		
M3		2	**4.952156 GHz**	**52.72 dBµV/m**		

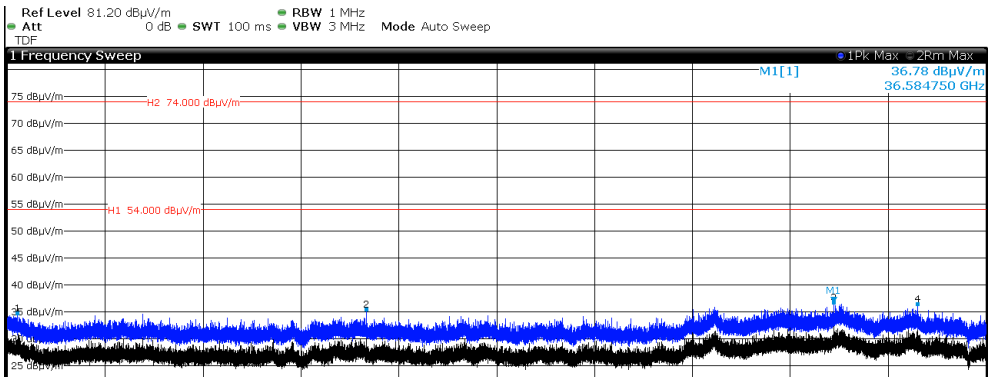


2 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	16.829750 GHz	51.928 dBµV/m			

3 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**16.82975 GHz**	**51.93 dBµV/m**		
M2		2	**16.82975 GHz**	**42.65 dBµV/m**		



2 Marker Peak List

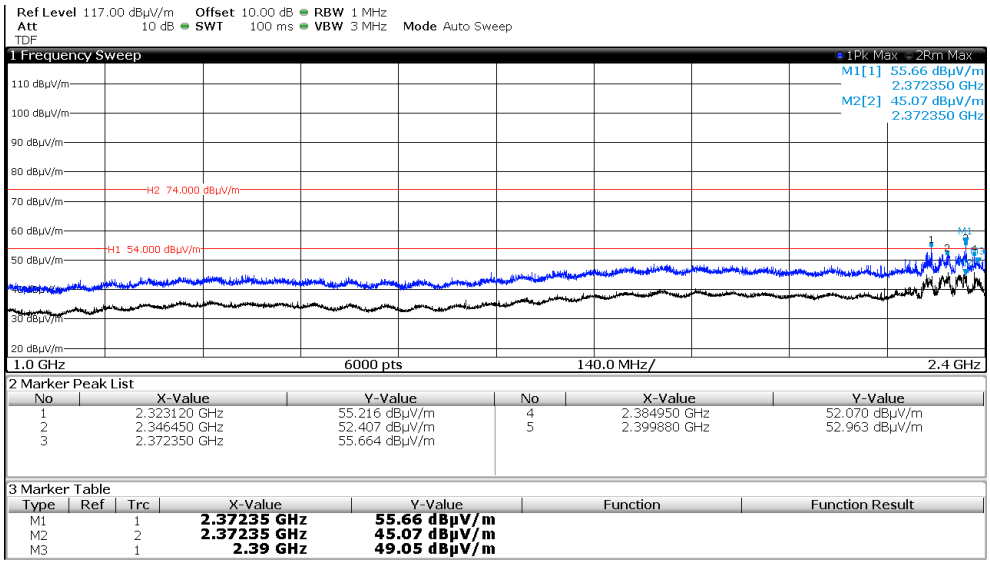
No	X-Value	Y-Value	No	X-Value	Y-Value
1	18.216750 GHz	34.708 dBµV/m	3	36.584750 GHz	36.784 dBµV/m
2	26.072750 GHz	35.499 dBµV/m	4	38.468250 GHz	36.453 dBµV/m

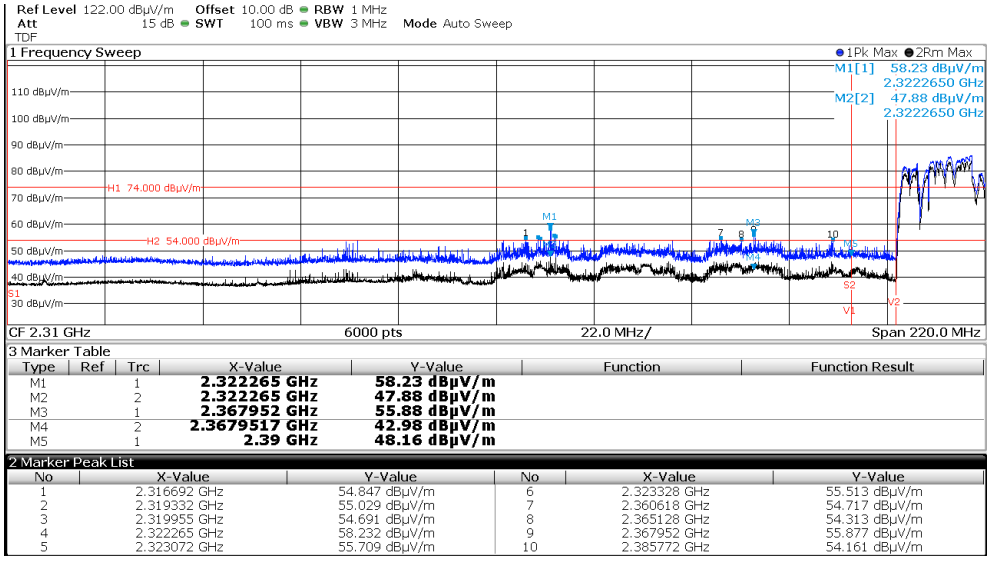
3 Marker Table

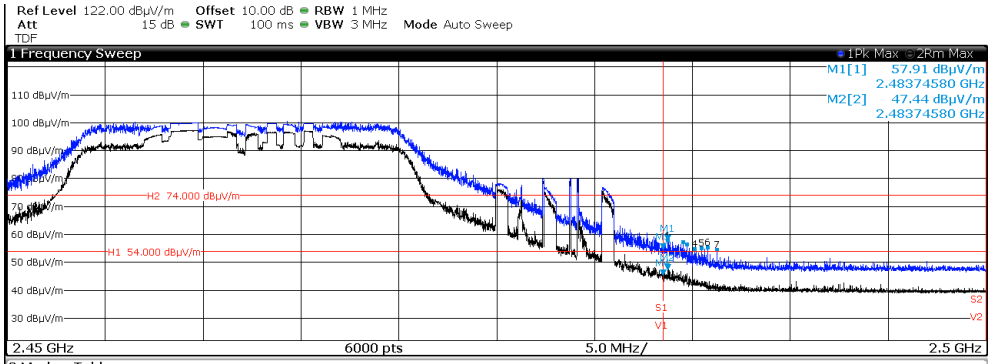
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**36.58475 GHz**	**36.78 dBµV/m**		

simultaneous transmission WLAN CH11, Bluetooth and RFID

Frequency	Level PK	Level AV	Limit PK	Margin PK	Limit AV	Margin AV
(MHz)	dB(µV/m)	dB(µV/m)	dB(µV/m)	(dB)	dB(µV/m)	(dB)
2372	55.7	45.1	74.0	-18.3	54.0	-8.9
2322	58.2	47.9	74.0	-15.8	54.0	-6.1
2368	55.9	43.0	74.0	-18.1	54.0	-11.0
2483.5	54.8	45.4	74.0	-19.2	54.0	-8.6
2483.7	57.9	47.4	74.0	-16.1	54.0	-6.6
2485	58.7	45.5	74.0	-15.3	54.0	-8.5
2564.0	57.2	47.1	74.0	-16.8	54.0	-6.9
4919.0	55.6	51.2	74.0	-18.4	54.0	-2.8
17946.0	51.6	43.8	74.0	-22.4	54.0	-10.2
36714.0	36.9	-	74.0	-37.1	54.0	-





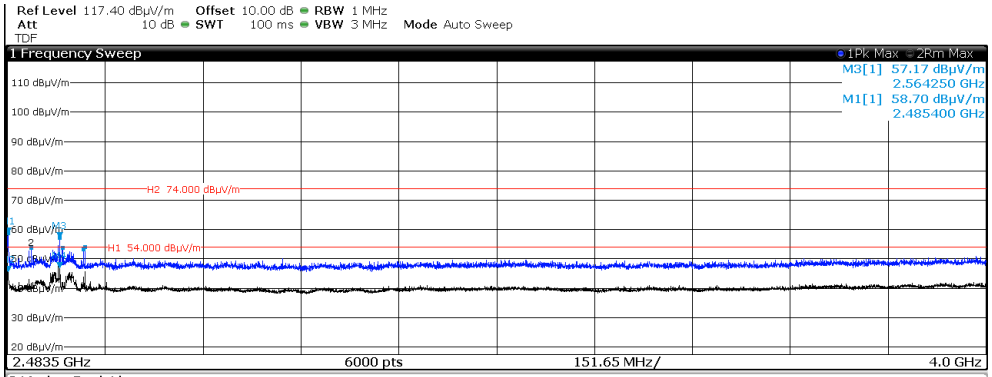


2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**2.4837458 GHz**	**57.91 dBµV/m**		
M2		2	**2.4837458 GHz**	**47.44 dBµV/m**		
M3		1	**2.4835 GHz**	**54.76 dBµV/m**		
M4		2	**2.4835 GHz**	**45.37 dBµV/m**		

3 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	2.483746 GHz	57.911 dBµV/m	5	2.485479 GHz	55.035 dBµV/m
2	2.484504 GHz	57.327 dBµV/m	6	2.485796 GHz	55.329 dBµV/m
3	2.484721 GHz	56.322 dBµV/m	7	2.486238 GHz	54.642 dBµV/m
4	2.485121 GHz	54.903 dBµV/m			

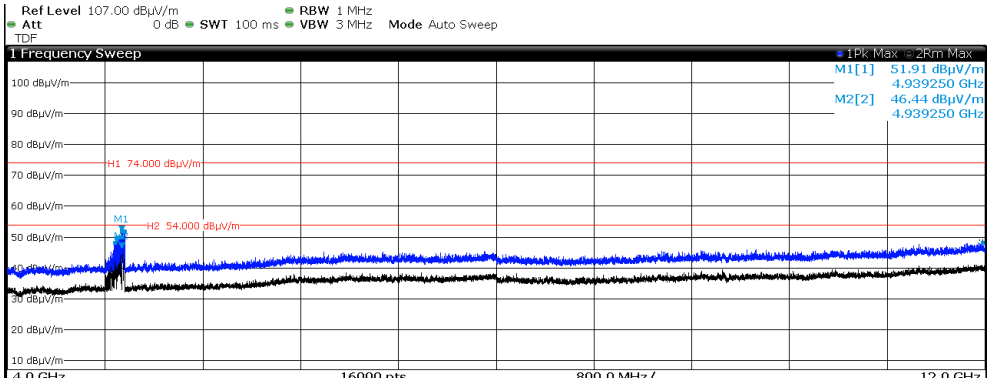


2 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	2.485400 GHz	58.698 dBµV/m	4	2.569810 GHz	53.706 dBµV/m
2	2.521030 GHz	53.675 dBµV/m	5	2.601410 GHz	53.214 dBµV/m
3	2.564250 GHz	57.174 dBµV/m	6	2.603430 GHz	53.960 dBµV/m

3 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**2.4854 GHz**	**58.70 dBµV/m**		
M2		2	**2.485396 GHz**	**45.54 dBµV/m**		
M3		1	**2.56425 GHz**	**57.17 dBµV/m**		
M4		2	**2.56425 GHz**	**47.05 dBµV/m**		

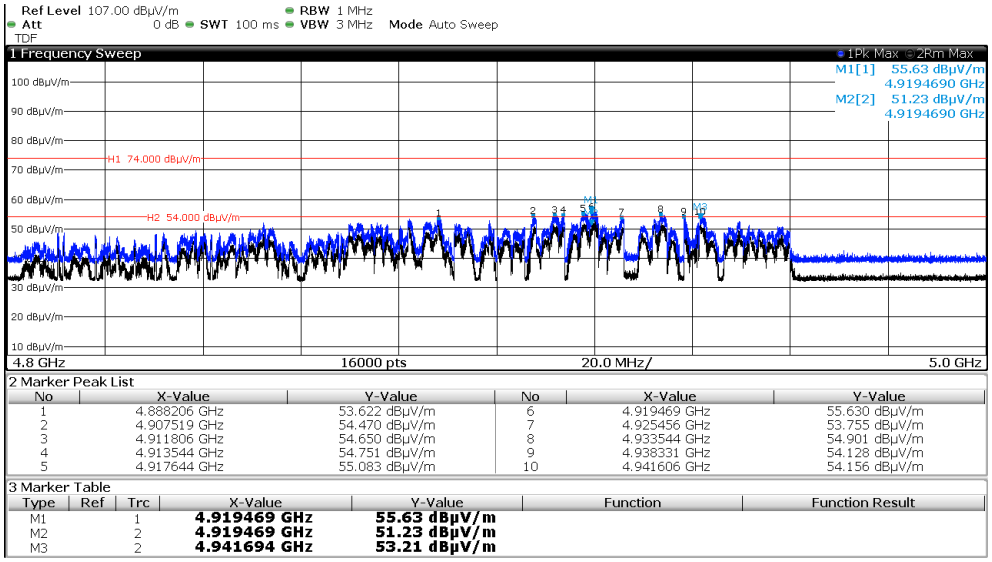


2 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	4.877250 GHz	48.151 dBµV/m	6	4.935750 GHz	50.008 dBµV/m
2	4.890250 GHz	49.547 dBµV/m	7	4.939250 GHz	51.914 dBµV/m
3	4.898250 GHz	49.259 dBµV/m	8	4.953750 GHz	51.817 dBµV/m
4	4.908250 GHz	49.794 dBµV/m	9	4.960750 GHz	51.535 dBµV/m
5	4.915750 GHz	49.775 dBµV/m	10	11.983750 GHz	48.245 dBµV/m

3 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**4.93925 GHz**	**51.91 dBµV/m**		
M2		2	**4.93925 GHz**	**46.44 dBµV/m**		

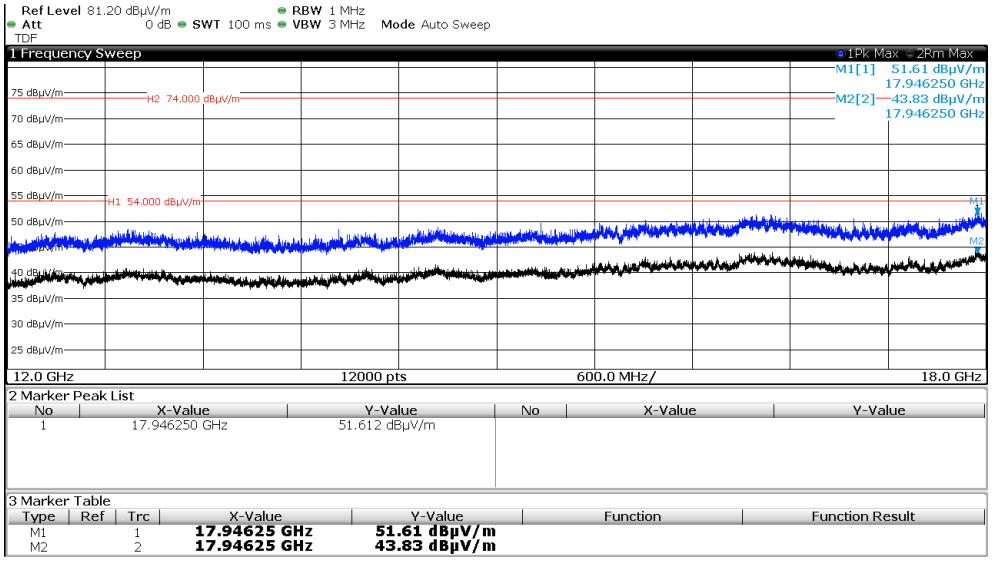


2 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	4.888206 GHz	53.622 dBµV/m	6	4.919469 GHz	55.630 dBµV/m
2	4.907519 GHz	54.470 dBµV/m	7	4.925456 GHz	53.755 dBµV/m
3	4.911806 GHz	54.650 dBµV/m	8	4.933544 GHz	54.901 dBµV/m
4	4.913544 GHz	54.751 dBµV/m	9	4.938331 GHz	54.128 dBµV/m
5	4.917644 GHz	55.083 dBµV/m	10	4.941606 GHz	54.156 dBµV/m

3 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**4.919469 GHz**	**55.63 dBµV/m**		
M2		2	**4.919469 GHz**	**51.23 dBµV/m**		
M3		2	**4.941694 GHz**	**53.21 dBµV/m**		

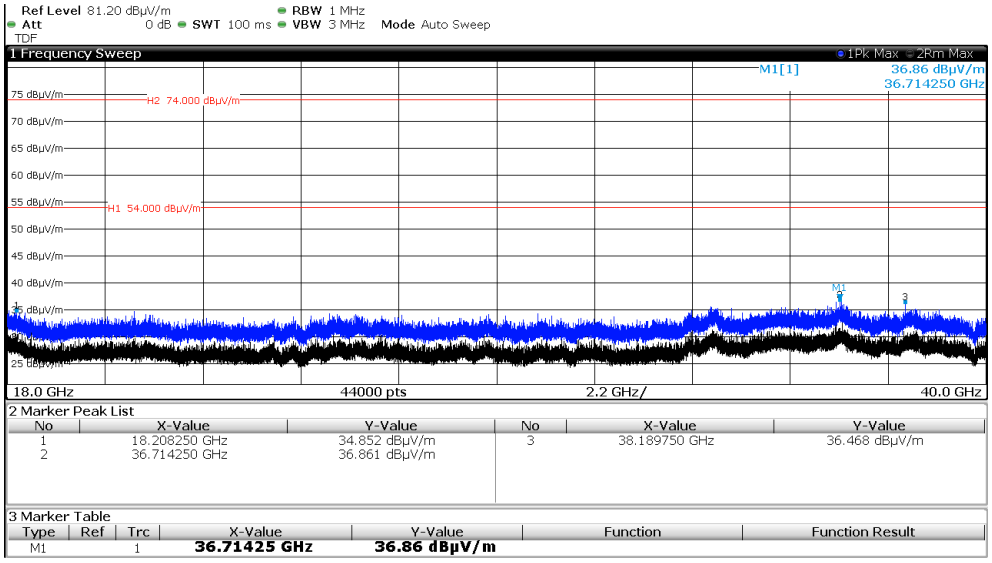


2 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	17.946250 GHz	51.612 dBµV/m			

3 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**17.94625 GHz**	**51.61 dBµV/m**		
M2		2	**17.94625 GHz**	**43.83 dBµV/m**		



2 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	18.208250 GHz	34.852 dBµV/m	3	38.189750 GHz	36.468 dBµV/m
2	36.714250 GHz	36.861 dBµV/m			

3 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**36.71425 GHz**	**36.86 dBµV/m**		

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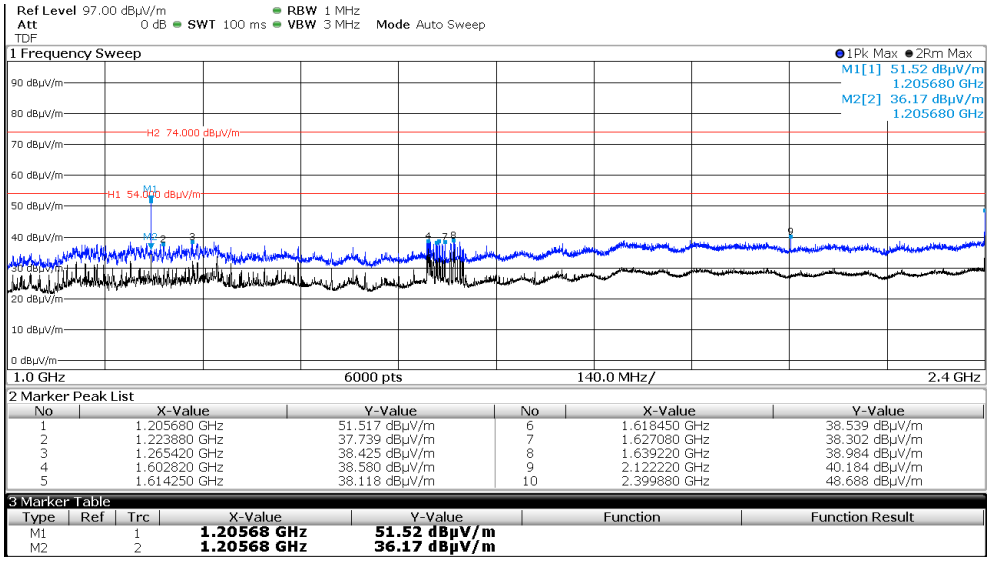
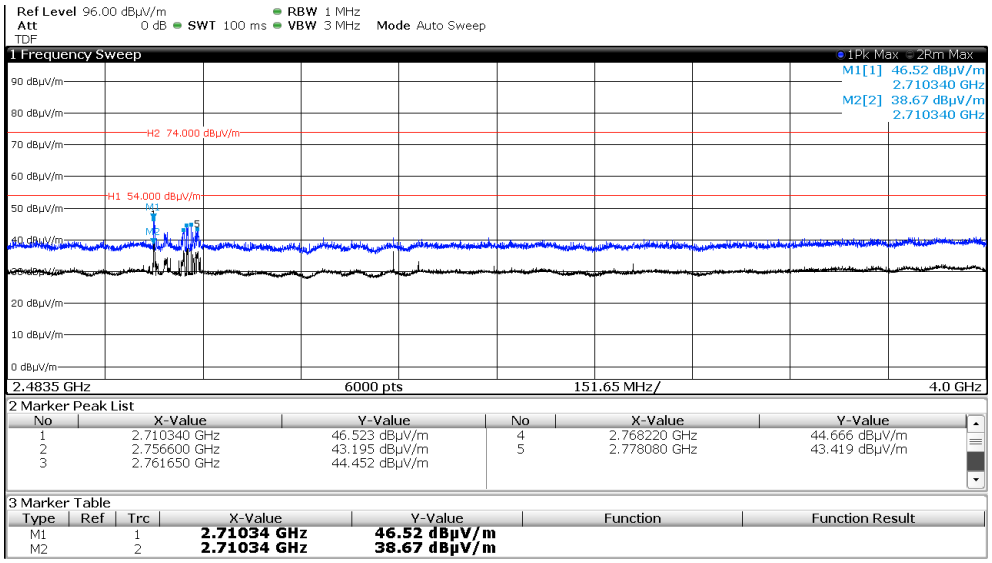
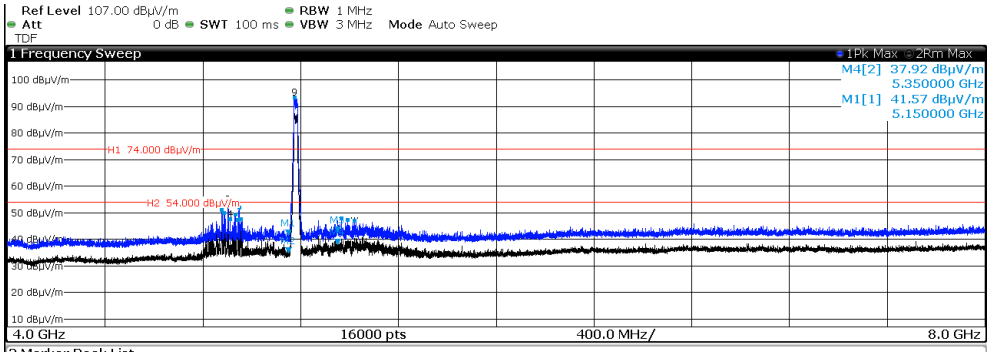
simultaneous transmission WLAN CH36, Bluetooth and RFID

Frequency (MHz)	Level PK dB(µV/m)	Level AV dB(µV/m)	Limit PK dB(µV/m)	Margin PK (dB)	Limit AV dB(µV/m)	Margin AV (dB)
1206	51.5	36.2	74.0	-22.5	54.0	-17.8
2710	46.5	38.7	74.0	-27.5	54.0	-15.3
4926	57.7	53.5	74.0	-16.3	54.0	-0.5
10358	49.2	42.7	74.0	-24.8	54.0	-11.3
17952	51.9	44.0	74.0	-22.1	54.0	-10.0
20711	41.8	-	74.0	-32.2	54.0	-





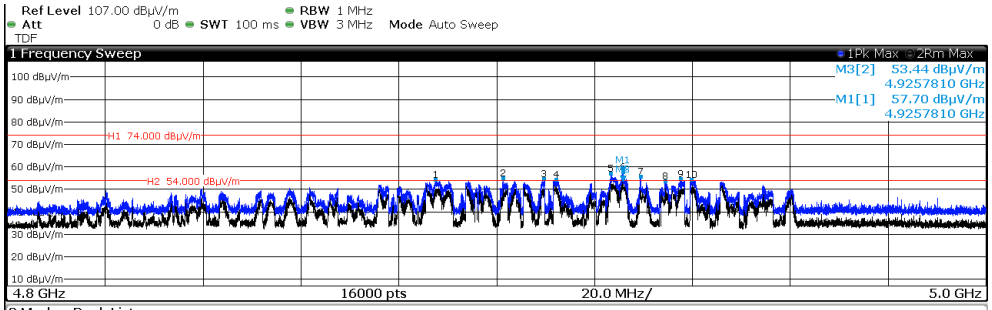


2 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	4.877380 GHz	51.072 dBµV/m	7	4.947880 GHz	51.828 dBµV/m
2	4.887380 GHz	49.876 dBµV/m	8	4.956630 GHz	47.453 dBµV/m
3	4.902130 GHz	53.198 dBµV/m	9	5.174630 GHz	93.325 dBµV/m
4	4.912130 GHz	47.456 dBµV/m	10	5.367880 GHz	47.827 dBµV/m
5	4.931880 GHz	49.175 dBµV/m	11	5.392630 GHz	47.270 dBµV/m
6	4.943880 GHz	47.225 dBµV/m	12	5.421630 GHz	47.095 dBµV/m

3 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**5.15 GHz**	**41.57 dBµV/m**		
M2		2	**5.15 GHz**	**34.94 dBµV/m**		
M3		1	**5.35 GHz**	**42.65 dBµV/m**		
M4		2	**5.35 GHz**	**37.92 dBµV/m**		

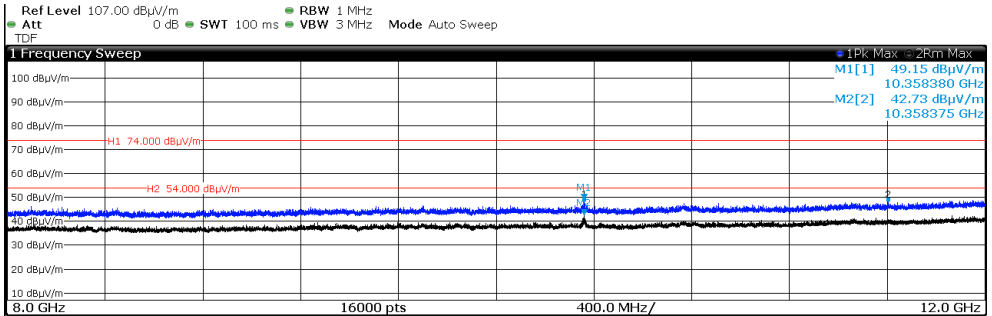


2 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	4.887506 GHz	54.171 dBµV/m	6	4.925781 GHz	57.697 dBµV/m
2	4.901369 GHz	54.836 dBµV/m	7	4.929456 GHz	55.628 dBµV/m
3	4.909606 GHz	54.467 dBµV/m	8	4.934431 GHz	53.619 dBµV/m
4	4.912194 GHz	54.319 dBµV/m	9	4.937581 GHz	54.474 dBµV/m
5	4.923394 GHz	56.904 dBµV/m	10	4.939806 GHz	54.366 dBµV/m

3 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**4.925781 GHz**	**57.70 dBµV/m**		
M2		2	**4.925781 GHz**	**53.44 dBµV/m**		
M3		2	**4.925781 GHz**	**53.44 dBµV/m**		

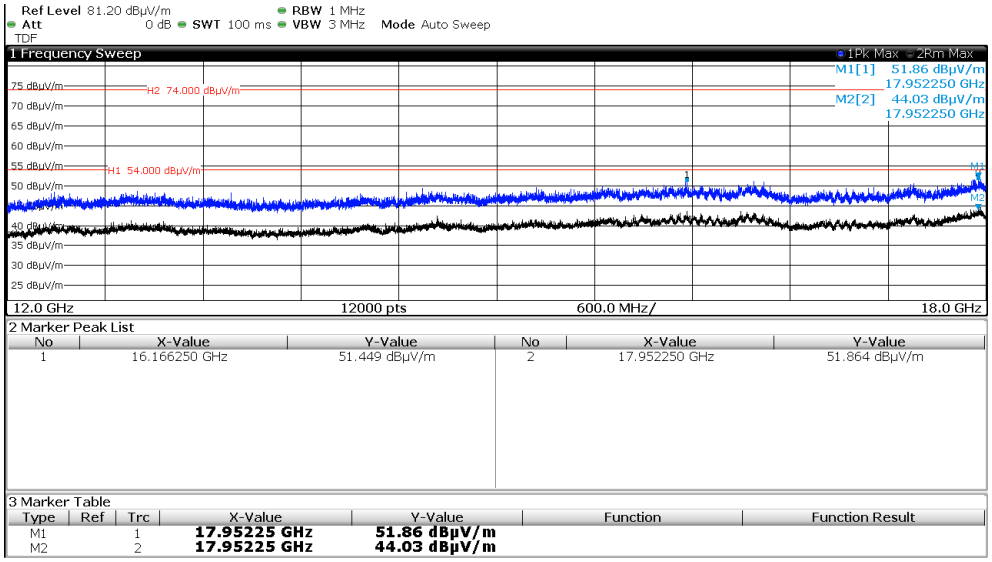


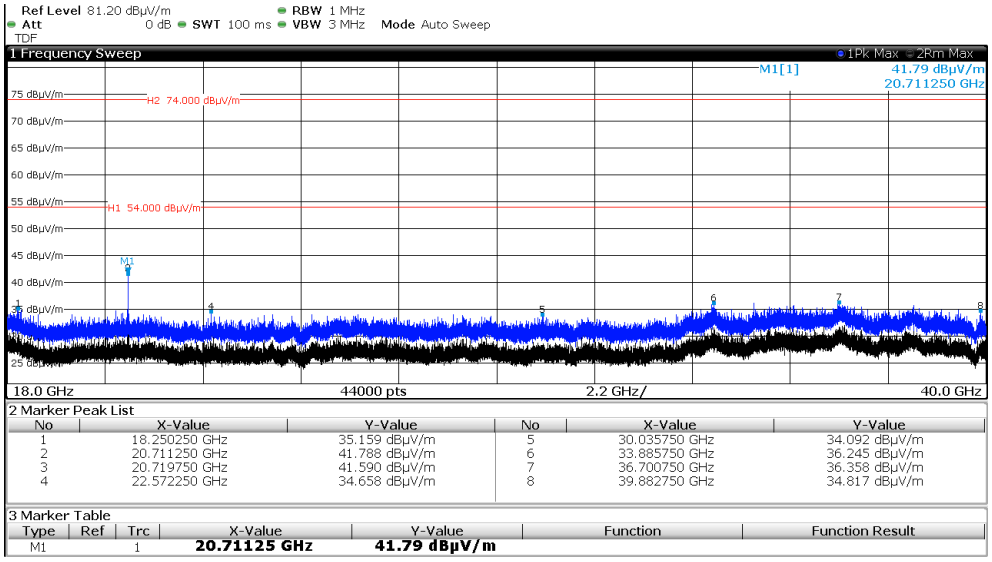
2 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	10.358380 GHz	49.151 dBµV/m	2	11.604880 GHz	49.026 dBµV/m

3 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**10.35838 GHz**	**49.15 dBµV/m**		
M2		2	**10.358375 GHz**	**42.73 dBµV/m**		


Ref Level 81.20 dBµV/m
RBW 1 MHz
Att 0 dB SWT 100 ms VBW 3 MHz Mode Auto Sweep
TDF
1 Frequency Sweep
1Pk Max 2Rm Max
M1[1] 51.86 dBµV/m
17.952250 GHz
M2[2] 44.03 dBµV/m
17.952250 GHz
H2 74.000 dBµV/m
H1 54.000 dBµV/m
12.0 GHz 12000 pts 600.0 MHz/ 18.0 GHz
2 Marker Peak List
No X-Value Y-Value No X-Value Y-Value
1 16.166250 GHz 51.449 dBµV/m 2 17.952250 GHz 51.864 dBµV/m
3 Marker Table
Type Ref Trc X-Value Y-Value Function Function Result
M1 1 17.95225 GHz 51.86 dBµV/m
M2 2 17.95225 GHz 44.03 dBµV/m


Ref Level 81.20 dBµV/m
RBW 1 MHz
Att 0 dB SWT 100 ms VBW 3 MHz Mode Auto Sweep
TDF
1 Frequency Sweep
1Pk Max 2Rm Max
M1[1] 41.79 dBµV/m
20.711250 GHz
H2 74.000 dBµV/m
H1 54.000 dBµV/m
18.0 GHz 44000 pts 2.2 GHz/ 40.0 GHz
2 Marker Peak List
No X-Value Y-Value No X-Value Y-Value
1 18.250250 GHz 35.159 dBµV/m 5 30.035750 GHz 34.092 dBµV/m
2 20.711250 GHz 41.788 dBµV/m 6 33.885750 GHz 36.245 dBµV/m
3 20.719750 GHz 41.590 dBµV/m 7 36.700750 GHz 36.358 dBµV/m
4 22.572250 GHz 34.658 dBµV/m 8 39.882750 GHz 34.817 dBµV/m
3 Marker Table
Type Ref Trc X-Value Y-Value Function Function Result
M1 1 20.71125 GHz 41.79 dBµV/m

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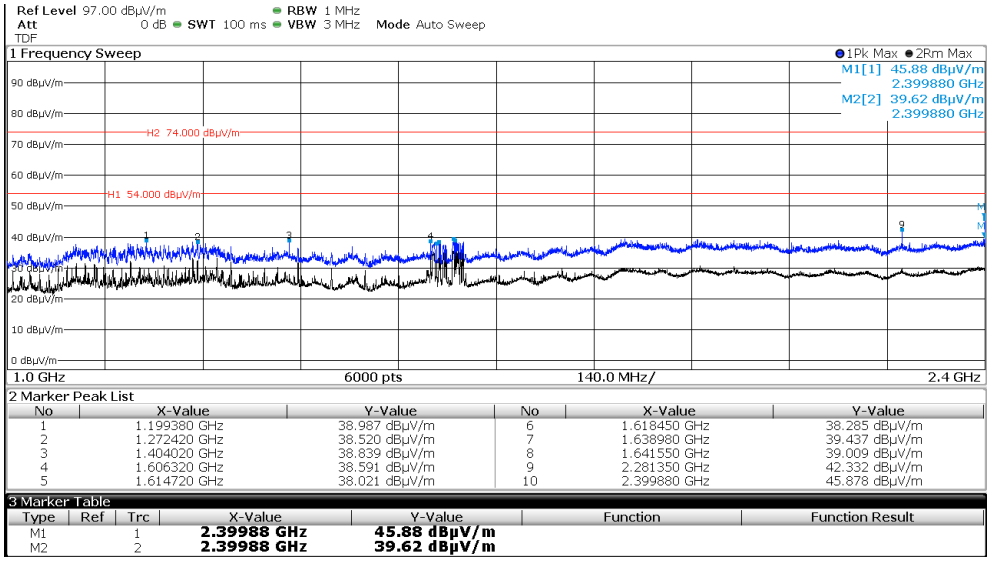
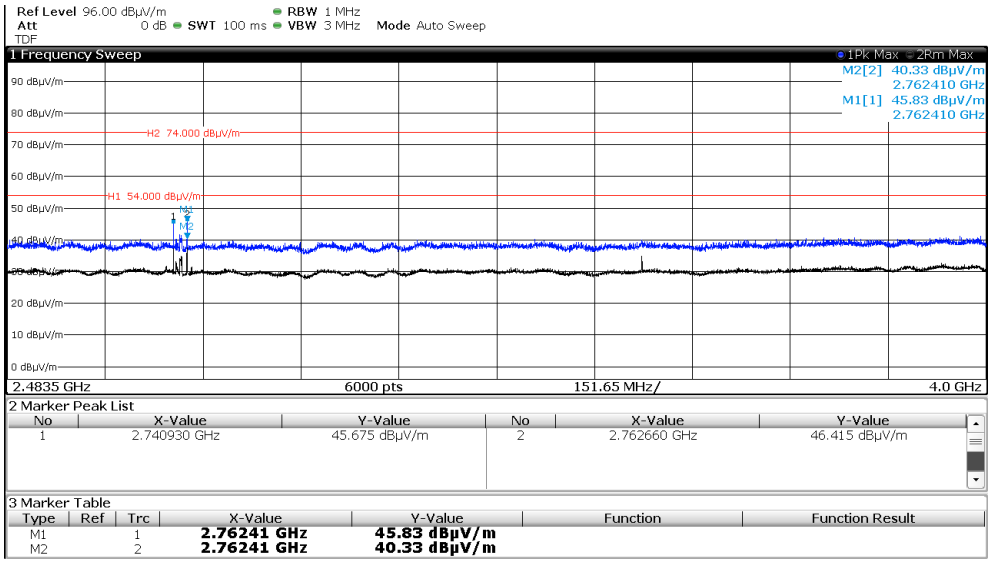
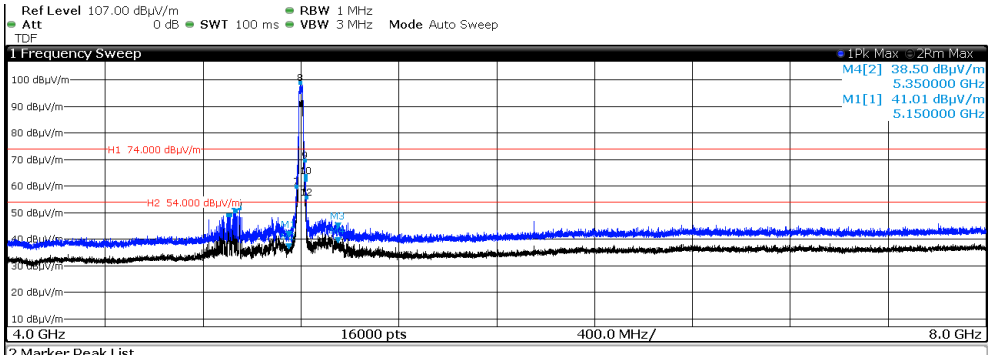
simultaneous transmission WLAN CH40, Bluetooth and RFID

Frequency	Level PK	Level AV	Limit PK	Margin PK	Limit AV	Margin AV
(MHz)	dB(µV/m)	dB(µV/m)	dB(µV/m)	(dB)	dB(µV/m)	(dB)
2399	45.9	39.6	74.0	-28.1	54.0	-14.4
2762	45.8	40.3	74.0	-28.2	54.0	-13.7
4934	54.0	51.8	74.0	-20.0	54.0	-2.2
10399	49.3	41.5	74.0	-24.7	54.0	-12.5
17964	52.1	43.8	74.0	-21.9	54.0	-10.2
20796	41.3	-	74.0	-32.7	54.0	-





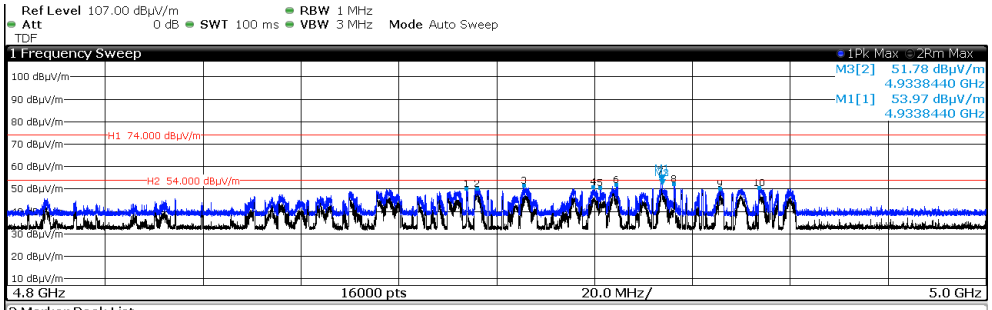


2 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	4.901630 GHz	49.004 dBµV/m	7	5.181130 GHz	59.727 dBµV/m
2	4.910380 GHz	48.964 dBµV/m	8	5.195880 GHz	98.929 dBµV/m
3	4.925380 GHz	51.785 dBµV/m	9	5.215630 GHz	69.505 dBµV/m
4	4.930130 GHz	50.427 dBµV/m	10	5.218880 GHz	63.872 dBµV/m
5	4.933630 GHz	50.845 dBµV/m	11	5.219380 GHz	62.329 dBµV/m
6	4.949630 GHz	51.590 dBµV/m	12	5.222380 GHz	55.687 dBµV/m

3 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**5.15 GHz**	**41.01 dBµV/m**		
M2		2	**5.15 GHz**	**36.35 dBµV/m**		
M3		1	**5.35 GHz**	**44.23 dBµV/m**		
M4		2	**5.35 GHz**	**38.50 dBµV/m**		

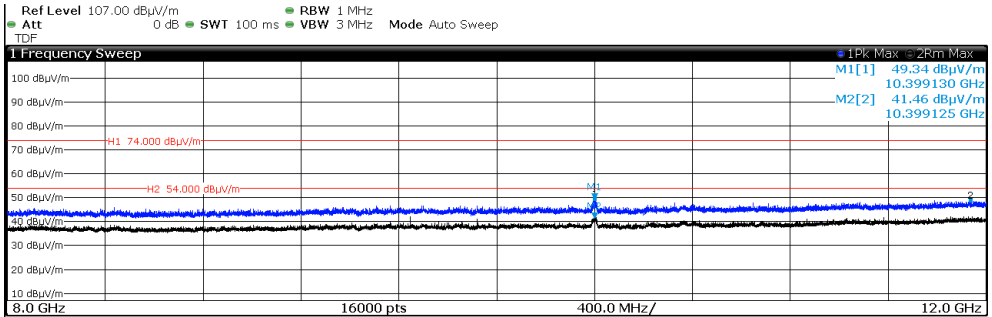


2 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	4.893819 GHz	50.155 dBµV/m	6	4.924469 GHz	51.792 dBµV/m
2	4.896031 GHz	50.213 dBµV/m	7	4.933619 GHz	55.530 dBµV/m
3	4.905631 GHz	51.503 dBµV/m	8	4.936194 GHz	52.212 dBµV/m
4	4.919744 GHz	50.751 dBµV/m	9	4.945669 GHz	50.278 dBµV/m
5	4.921194 GHz	50.628 dBµV/m	10	4.953619 GHz	50.388 dBµV/m

3 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**4.933844 GHz**	**53.97 dBµV/m**		
M2		2	**4.933844 GHz**	**51.78 dBµV/m**		
M3		2	**4.933844 GHz**	**51.78 dBµV/m**		

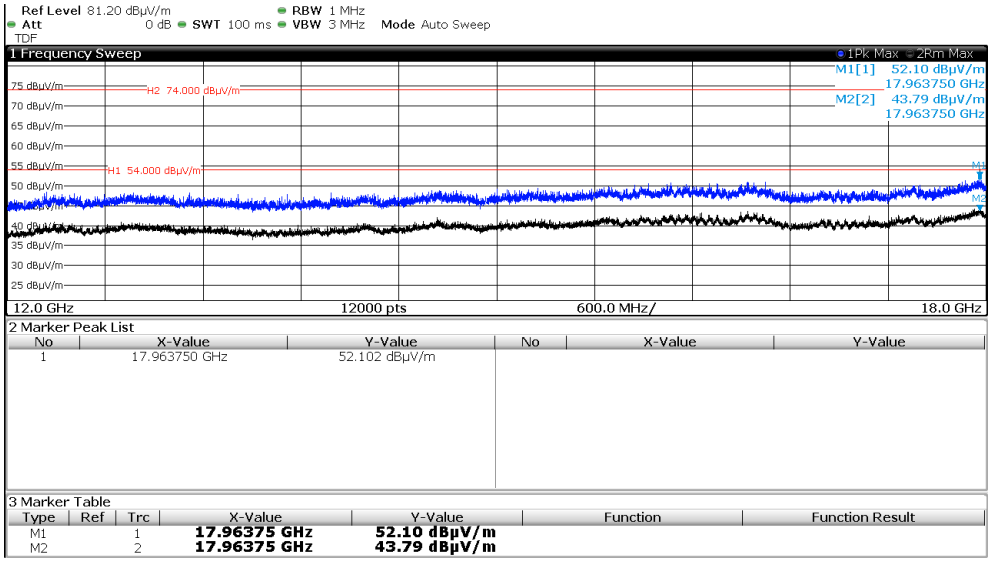


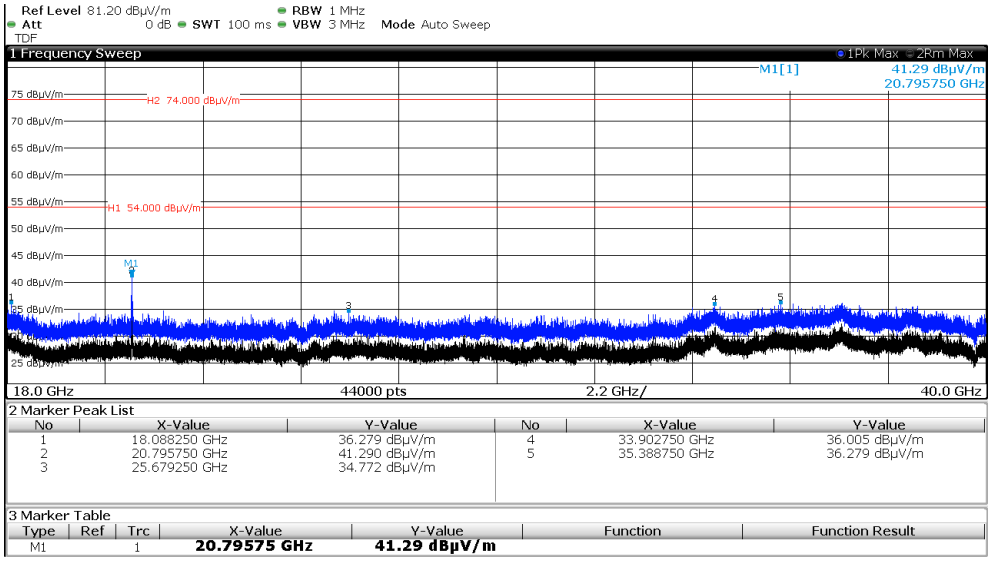
2 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	10.399130 GHz	49.337 dBµV/m	2	11.936380 GHz	48.887 dBµV/m

3 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**10.39913 GHz**	**49.34 dBµV/m**		
M2		2	**10.399125 GHz**	**41.46 dBµV/m**		

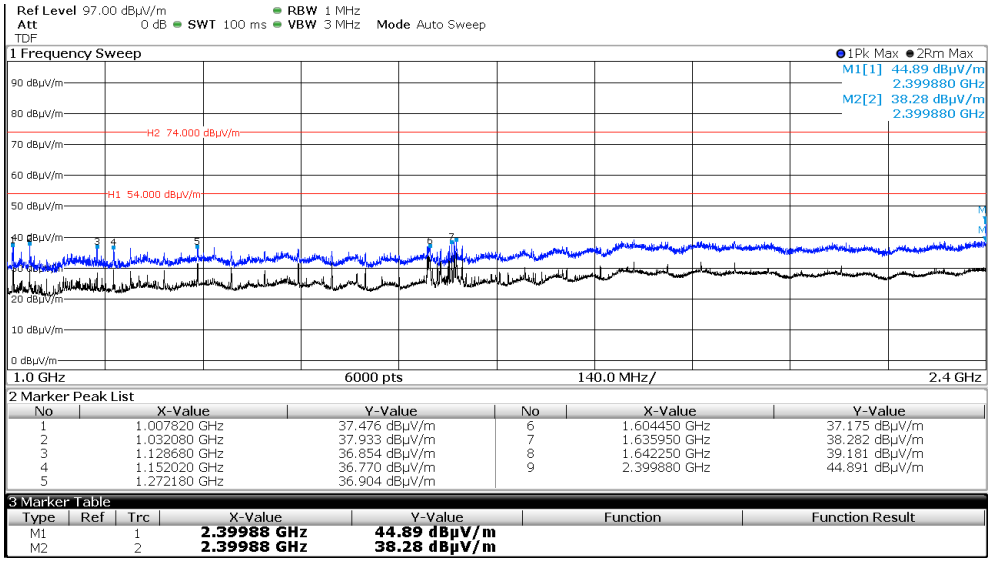

Ref Level 81.20 dBµV/m
RBW 1 MHz
Att 0 dB SWT 100 ms VBW 3 MHz Mode Auto Sweep
TDF
1 Frequency Sweep
1Pk Max 2Rm Max
M1[1] 52.10 dBµV/m
17.963750 GHz
M2[2] 43.79 dBµV/m
17.963750 GHz
H2 74.000 dBµV/m
H1 54.000 dBµV/m
12.0 GHz 12000 pts 600.0 MHz/ 18.0 GHz
2 Marker Peak List
No X-Value Y-Value No X-Value Y-Value
1 17.963750 GHz 52.102 dBµV/m
3 Marker Table
Type Ref Trc X-Value Y-Value Function Function Result
M1 1 17.96375 GHz 52.10 dBµV/m
M2 2 17.96375 GHz 43.79 dBµV/m

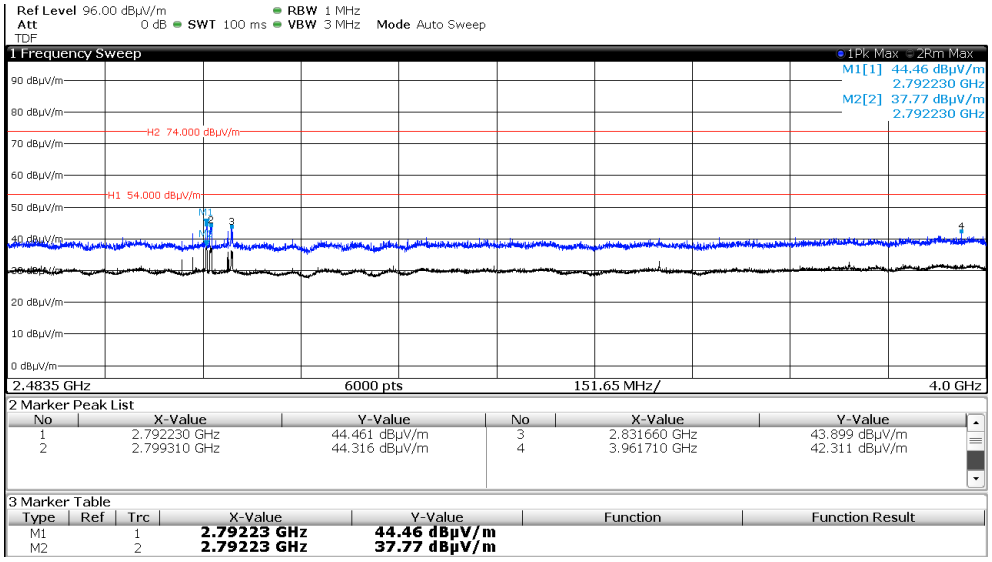

Ref Level 81.20 dBµV/m
RBW 1 MHz
Att 0 dB SWT 100 ms VBW 3 MHz Mode Auto Sweep
TDF
1 Frequency Sweep
1Pk Max 2Rm Max
M1[1] 41.29 dBµV/m
20.795750 GHz
H2 74.000 dBµV/m
H1 54.000 dBµV/m
18.0 GHz 44000 pts 2.2 GHz/ 40.0 GHz
2 Marker Peak List
No X-Value Y-Value No X-Value Y-Value
1 18.088250 GHz 36.279 dBµV/m 4 33.902750 GHz 36.005 dBµV/m
2 20.795750 GHz 41.290 dBµV/m 5 35.388750 GHz 36.279 dBµV/m
3 25.679250 GHz 34.772 dBµV/m
3 Marker Table
Type Ref Trc X-Value Y-Value Function Function Result
M1 1 20.79575 GHz 41.29 dBµV/m

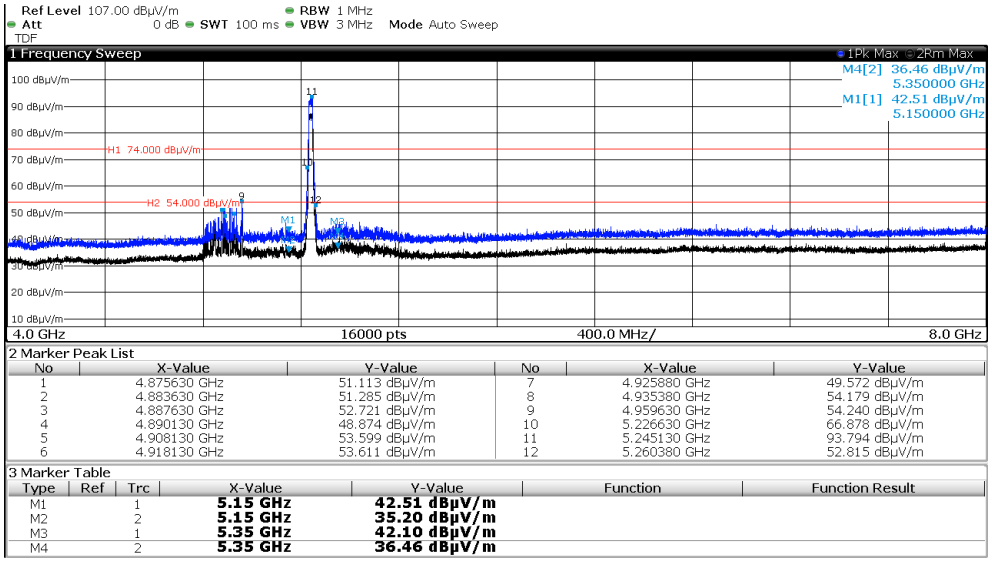
FCC ID: O2FM260SE

simultaneous transmission WLAN CH48, Bluetooth and RFID

Frequency	Level PK	Level AV	Limit PK	Margin PK	Limit AV	Margin AV
(MHz)	dB(µV/m)	dB(µV/m)	dB(µV/m)	(dB)	dB(µV/m)	(dB)
2399	44.9	38.3	74.0	-29.1	54.0	-15.7
2792	44.5	37.8	74.0	-29.5	54.0	-16.2
4924	55.2	51.2	74.0	-18.8	54.0	-2.8
4927	-	52.3	74.0	-	54.0	-1.7
11956	49.5	40.9	74.0	-24.5	54.0	-13.1
16538	51.8	42.8	74.0	-22.2	54.0	-11.2
38506	36.9	-	74.0	-37.1	54.0	-





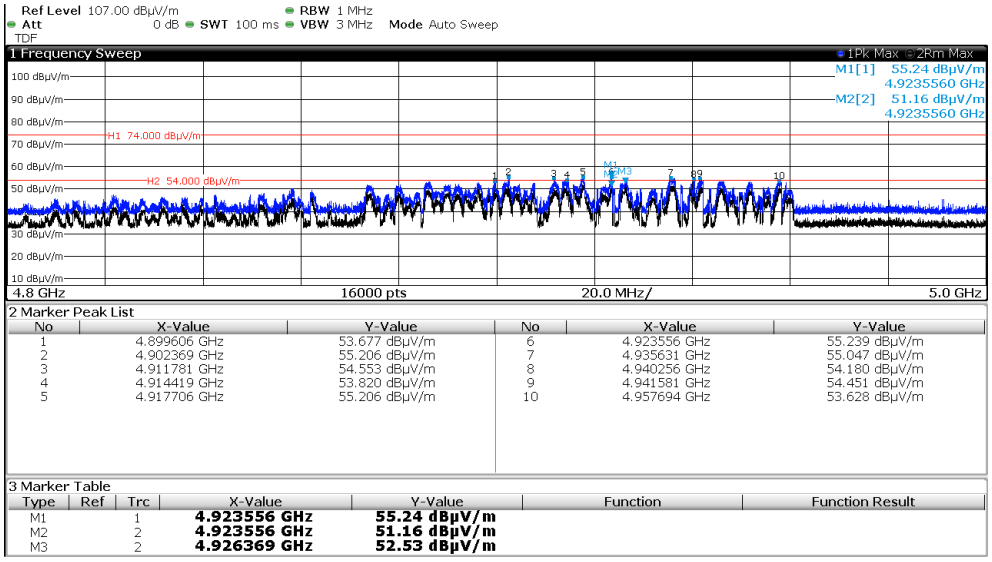


2 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	4.875630 GHz	51.113 dBµV/m	7	4.925880 GHz	49.572 dBµV/m
2	4.883630 GHz	51.285 dBµV/m	8	4.935380 GHz	54.179 dBµV/m
3	4.887630 GHz	52.721 dBµV/m	9	4.959630 GHz	54.240 dBµV/m
4	4.890130 GHz	48.874 dBµV/m	10	5.226630 GHz	66.878 dBµV/m
5	4.908130 GHz	53.599 dBµV/m	11	5.245130 GHz	93.794 dBµV/m
6	4.918130 GHz	53.611 dBµV/m	12	5.260380 GHz	52.815 dBµV/m

3 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**5.15 GHz**	**42.51 dBµV/m**		
M2		2	**5.15 GHz**	**35.20 dBµV/m**		
M3		1	**5.35 GHz**	**42.10 dBµV/m**		
M4		2	**5.35 GHz**	**36.46 dBµV/m**		

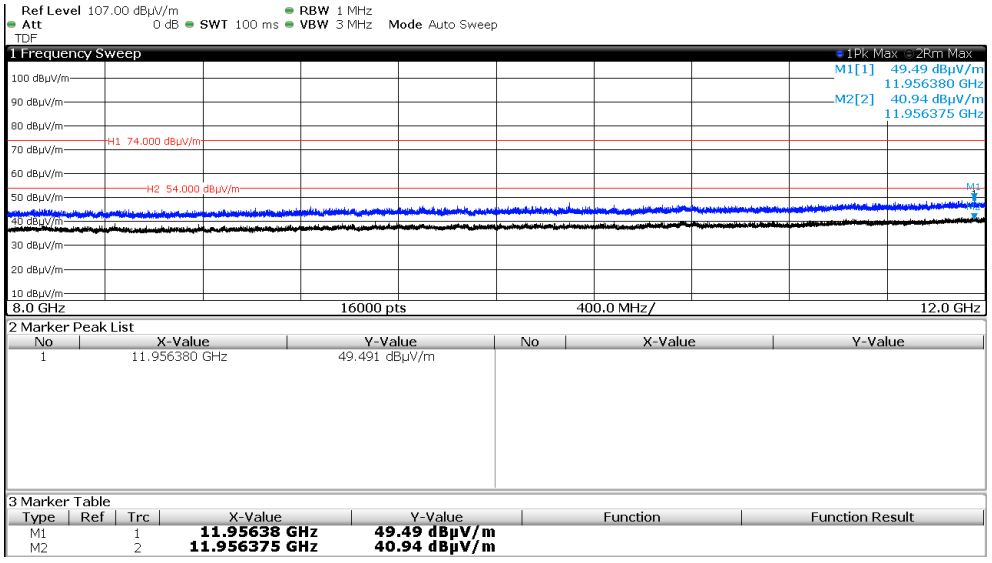


2 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	4.899606 GHz	53.677 dBµV/m	6	4.923556 GHz	55.239 dBµV/m
2	4.902369 GHz	55.206 dBµV/m	7	4.935631 GHz	55.047 dBµV/m
3	4.911781 GHz	54.553 dBµV/m	8	4.940256 GHz	54.180 dBµV/m
4	4.914419 GHz	53.820 dBµV/m	9	4.941581 GHz	54.451 dBµV/m
5	4.917706 GHz	55.206 dBµV/m	10	4.957694 GHz	53.628 dBµV/m

3 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**4.923556 GHz**	**55.24 dBµV/m**		
M2		2	**4.923556 GHz**	**51.16 dBµV/m**		
M3		2	**4.926369 GHz**	**52.53 dBµV/m**		

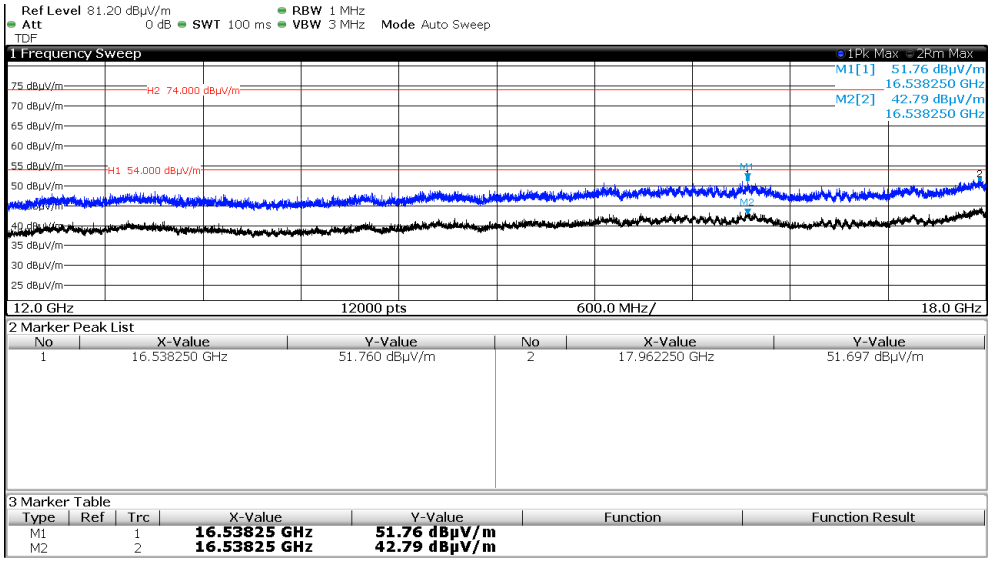


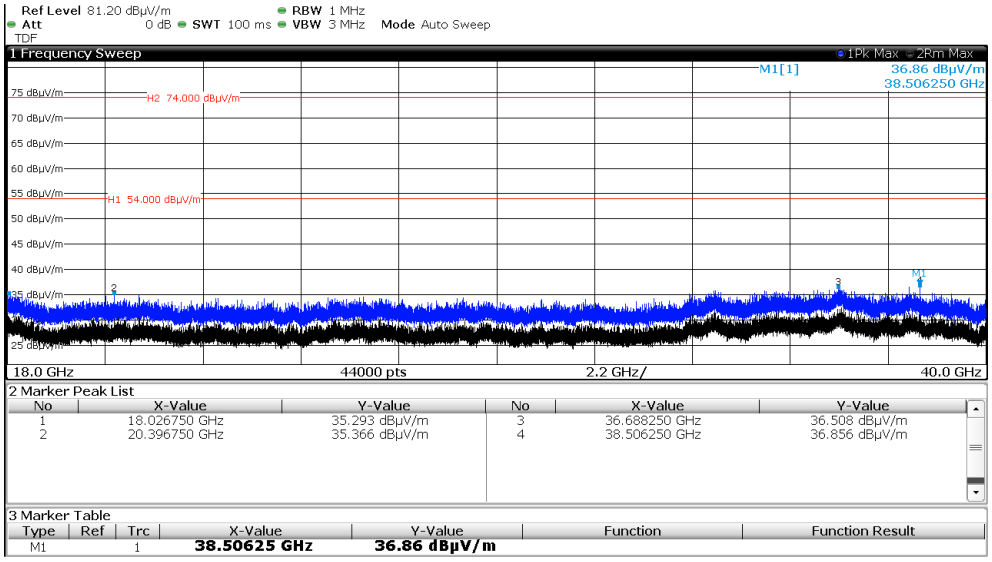
2 Marker Peak List

No	X-Value	Y-Value	No	X-Value	Y-Value
1	11.956380 GHz	49.491 dBµV/m			

3 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**11.95638 GHz**	**49.49 dBµV/m**		
M2		2	**11.956375 GHz**	**40.94 dBµV/m**		





Limit according to FCC Part 15, Section 15.209 and RSS-Gen, Section 8.9:

Frequency	Field strength of spurious emissions		Measurement distance
(MHz)	(µV/m)	dB(µV/m)	(metres)
0.009 - 0.490	2400/F(kHz)	--	300
0.490 - 1.705	24000/F (kHz)	--	30
1.705 - 30.0	30	29.5	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

The requirements are **FULFILLED.**

Remarks: _____

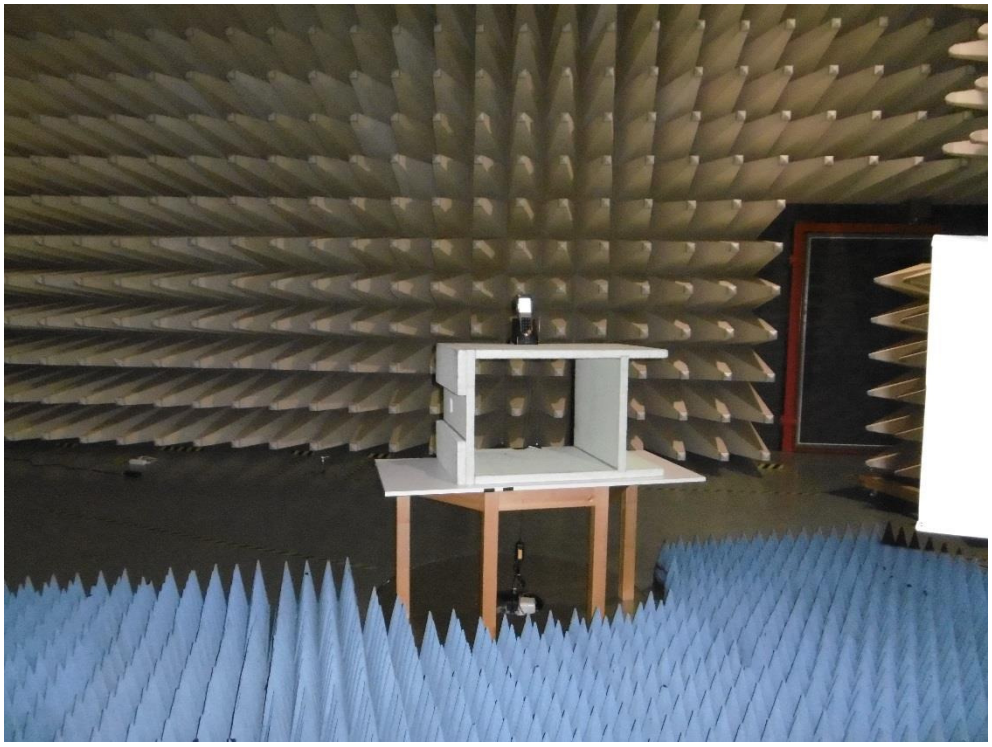
5.3 Average radiated output power (WLAN 2.4 GHz Band)

For test instruments and accessories used see section 6 Part **CPR 3**.

5.3.1 Description of the test location

Test location: Anechoic chamber 1
Test distance: 3 metres

5.3.2 Photo documentation of the test set-up

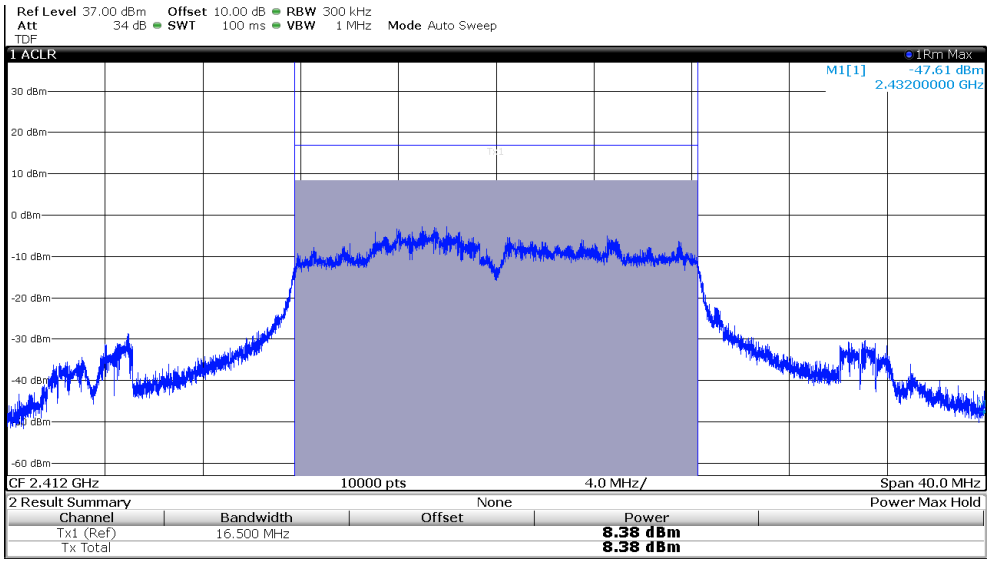


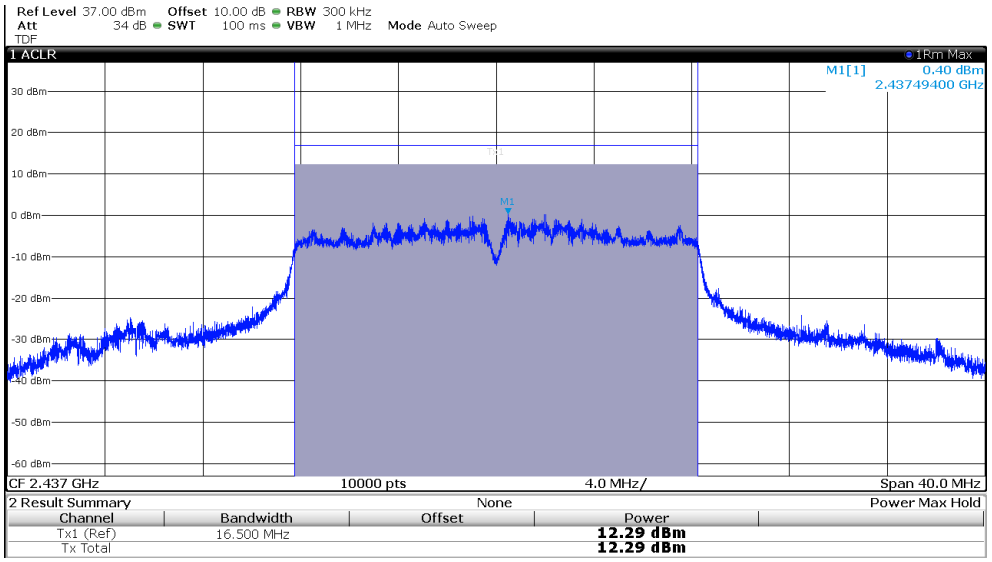
5.3.3 Description of Measurement

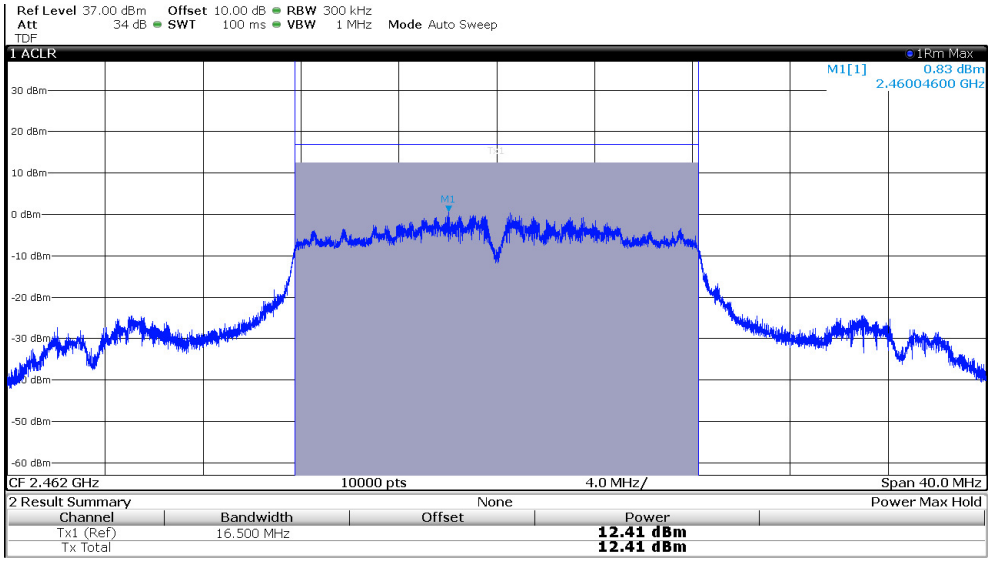
The maximum peak radiated output power is measured using a spectrum analyzer following the procedure set out in KDB 558074, item 9.2.2.6. The EUT is set in normal operating mode.

5.3.4 Test result

802.11, 2 TX FTP Filetransfer		Test results radiated		
2400 MHz - 2483.5 MHz		Pavg (EIRP) (dBm)	Limit (dBm)	Margin (dB)
Lowest frequency: CH1				
T_{nom}	V_{nom}	8.4	30.0	-21.6
Middle frequency: CH6				
T_{nom}	V_{nom}	12.3	30.0	-17.7
Highest frequency: CH11				
T_{nom}	V_{nom}	12.4	30.0	-17.6







The requirements are **FULFILLED.**

Remarks: _____

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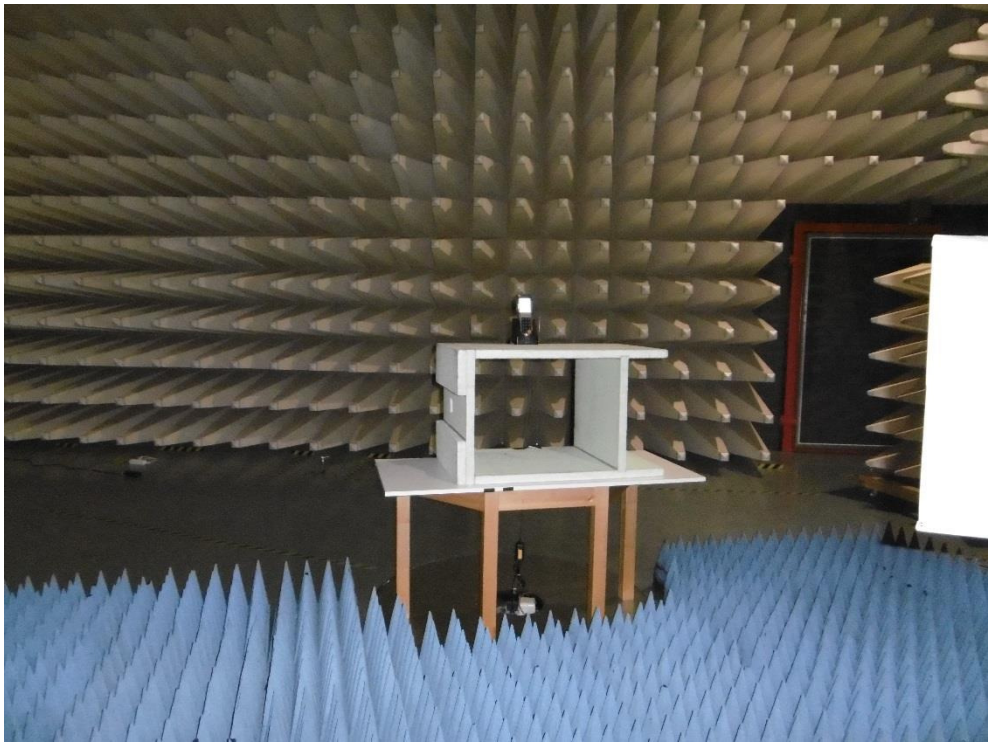
5.4 Average radiated output power (WLAN 5 GHz Band)

For test instruments and accessories used see section 6 Part **CPR 3**.

5.4.1 Description of the test location

Test location: Anechoic chamber 1
Test distance: 3 metres

5.4.2 Photo documentation of the test set-up

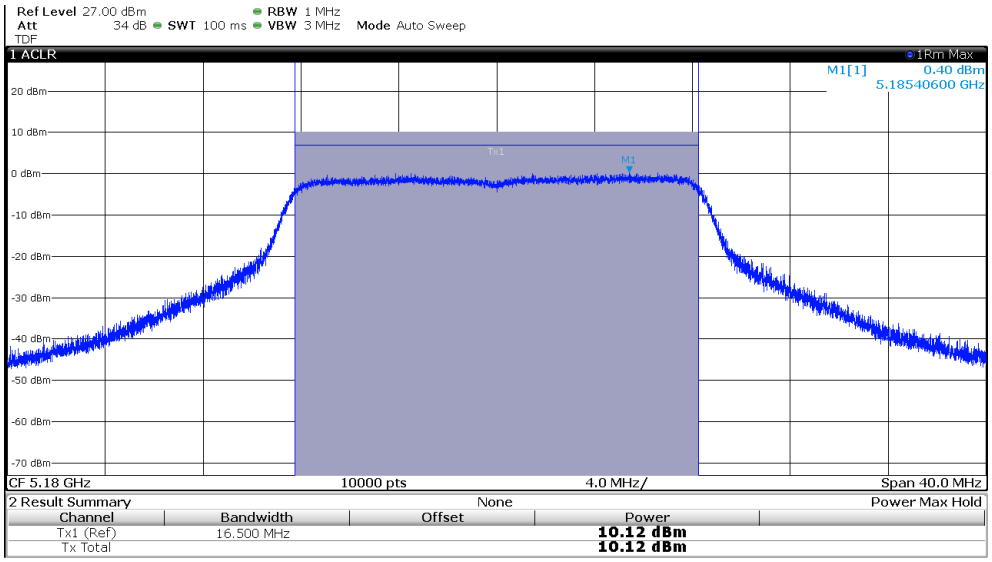


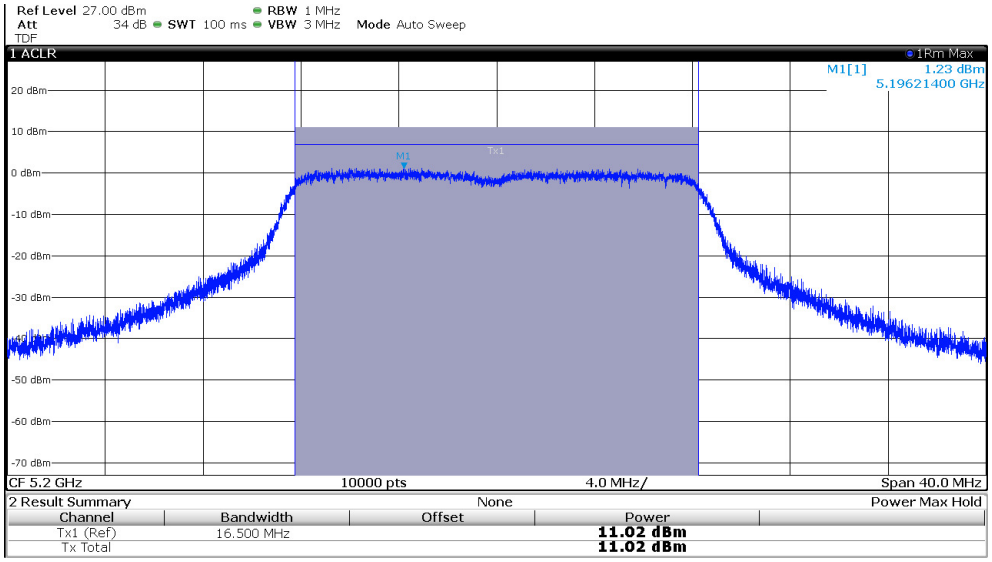
5.4.3 Description of Measurement

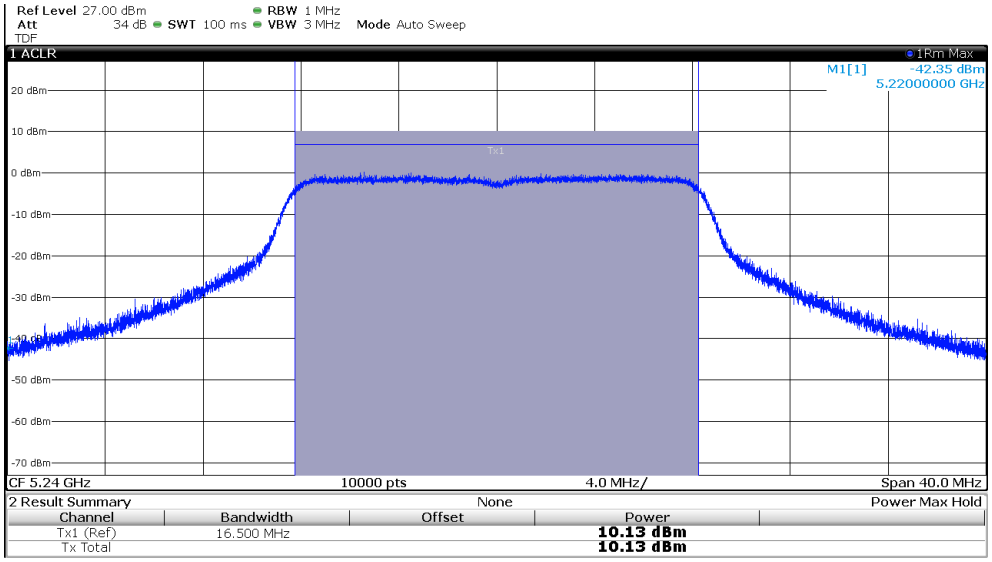
The maximum peak radiated output power is measured using a spectrum analyzer following the procedure set out in KDB 789033, Method SA-3. The EUT is set in normal operating mode.

5.4.4 Test result

802.11, 2 TX FTP Filetransfer		Test results radiated		
5150 MHz - 5250 MHz		Pavg (EIRP) (dBm)	Limit (dBm)	Margin (dB)
Lowest frequency: CH36				
T_{nom}	V_{nom}	10.1	21.0	-10.9
Middle frequency: CH40				
T_{nom}	V_{nom}	11.0	21.0	-10.0
Highest frequency: CH48				
T_{nom}	V_{nom}	10.1	21.0	-10.9







The requirements are **FULFILLED.**

Remarks: _____

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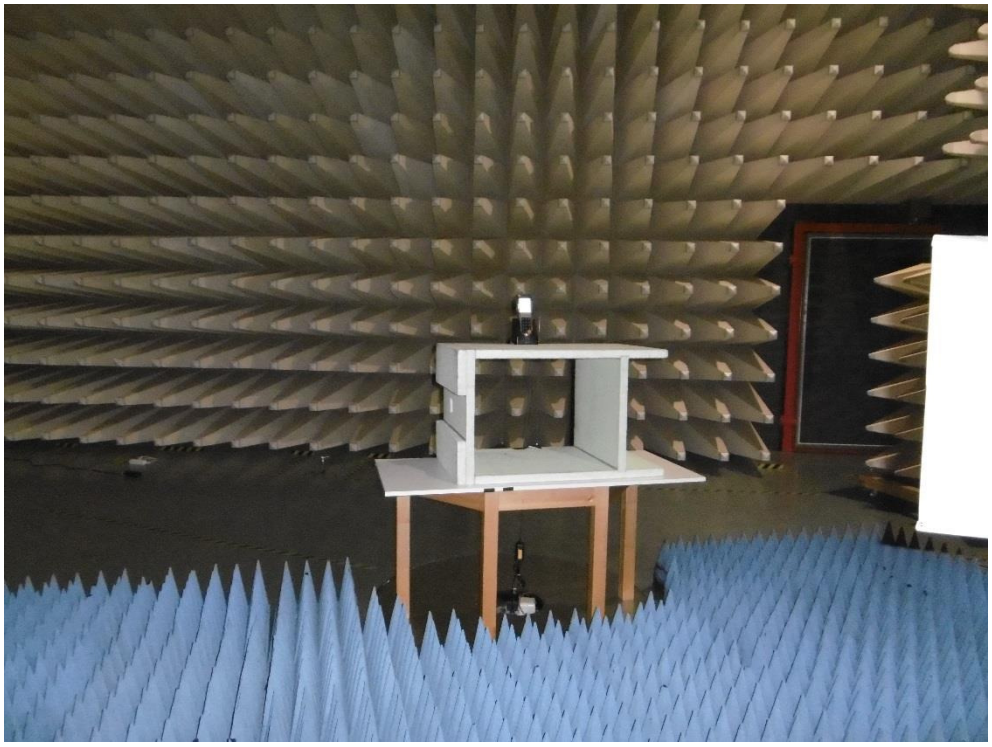
5.5 Maximum Peak radiated output power (Bluetooth)

For test instruments and accessories used see section 6 Part **CPR 3**.

5.5.1 Description of the test location

Test location: Anechoic chamber 1
Test distance: 3 metres

5.5.2 Photo documentation of the test set-up

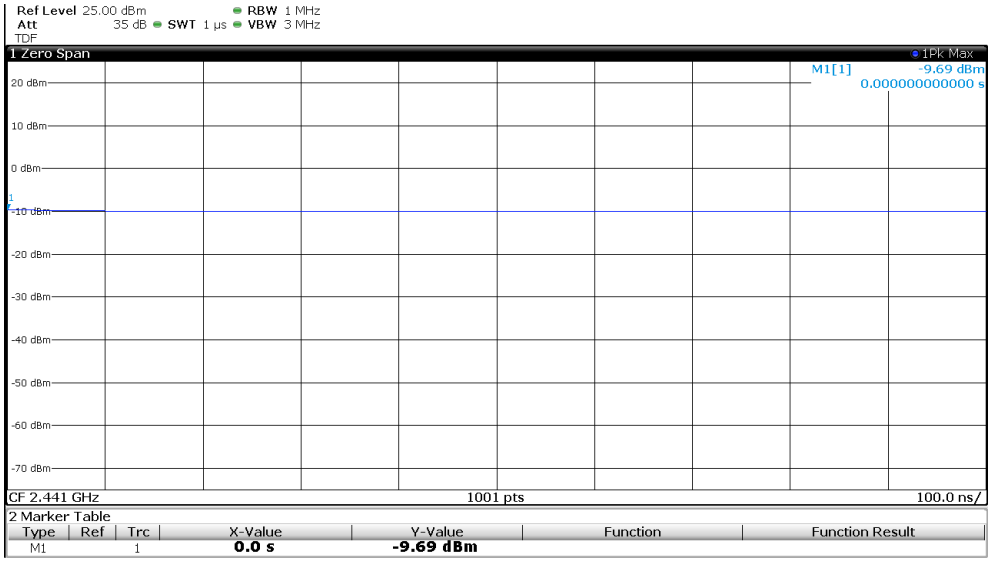


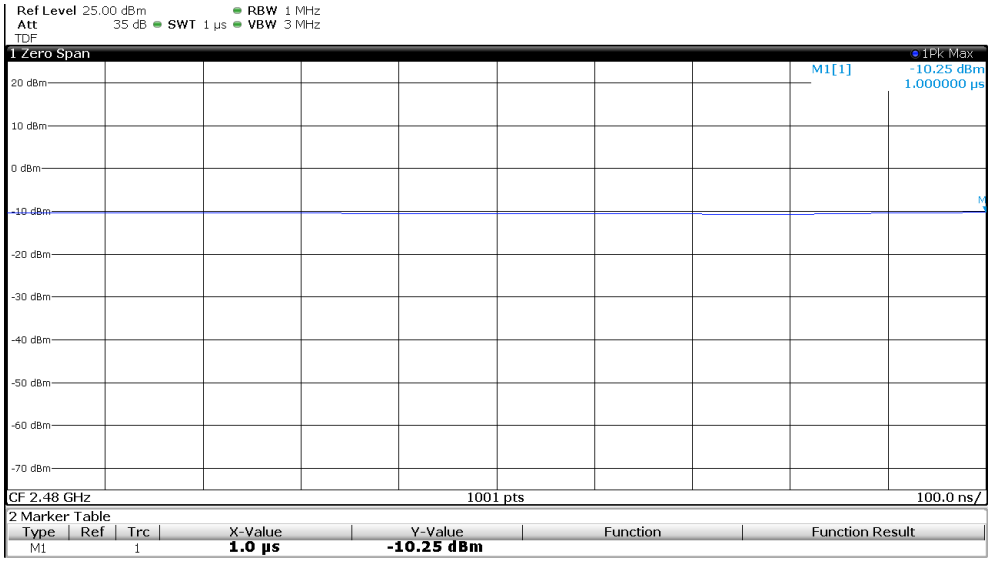
5.5.3 Description of Measurement

The maximum peak radiated output power is measured using a spectrum analyzer following the procedure set out in KDB 558074, item 9.1.1. The EUT is set in normal operating mode.

5.5.4 Test result

Bluetooth		Test results radiated		
Transmission to a Headset				
2400 MHz - 2483.5 MHz		Pmax (EIRP) (dBm)	Limit (dBm)	Margin (dB)
Lowest frequency: 2402 MHz				
T_{nom}	V_{nom}	-14.5	30.0	-44.5
Middle frequency: 2441 MHz				
T_{nom}	V_{nom}	-9.7	30.0	-39.7
Highest frequency: 2480 MHz				
T_{nom}	V_{nom}	-10.3	30.0	-40.3





The requirements are **FULFILLED.**

Remarks: _____

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6 USED TEST EQUIPMENT AND ACCESSORIES

All test instruments used are calibrated and verified regularly. The calibration history is available on request.

Test ID	Model Type	Equipment No.	Next Calib.	Last Calib.	Next Verif.	Last Verif.
A 4	ESCI	02-02/03-15-001	23/05/2017	23/05/2016		
	ESH 2 - Z 5	02-02/20-05-004	26/10/2017	26/10/2015	24/05/2017	24/11/2016
	N-4000-BNC	02-02/50-05-138				
	N-1500-N	02-02/50-05-140				
	ESH 3 - Z 2	02-02/50-05-155	18/11/2019	18/11/2016	18/05/2017	18/11/2016
CPR 3	FSW43	02-02/11-15-001	25/07/2017	25/07/2016		
	AFS5-12001800-18-10P-6	02-02/17-06-002				
	AFS4-01000400-10-10P-4	02-02/17-13-002				
	AMF-4F-04001200-15-10P	02-02/17-13-003				
	BBHA 9120 E 251	02-02/24-05-006	19/04/2017	19/04/2016	23/06/2017	23/12/2016
	WBH2-18NHG	02-02/24-08-002	19/04/2017	19/04/2016	23/06/2017	23/12/2016
	Sucoflex N-2000-SMA	02-02/50-05-075				
	SF104/11N/11N/1500MM	02-02/50-13-015				
	SF104/11SMA/11N/1500MM	02-02/50-13-016				
	SF104/11SMA/11N/1500MM	02-02/50-13-017				
SER 2	VULB 9168	02-02/24-05-005	20/04/2017	20/04/2016	01/03/2017	01/09/2016
	NW-2000-NB	02-02/50-05-113				
	KK-EF393/U-16N-21N20 m	02-02/50-12-018				
	KK-SD_7/8-2X21N-33,0M	02-02/50-15-028				
SER 3	FSW43	02-02/11-15-001	25/07/2017	25/07/2016		
	JS4-18004000-30-5A	02-02/17-05-017				
	AFS5-12001800-18-10P-6	02-02/17-06-002				
	AFS4-01000400-10-10P-4	02-02/17-13-002				
	AMF-4F-04001200-15-10P	02-02/17-13-003				
	3117	02-02/24-05-009	24/05/2017	24/05/2016		
	BBHA 9170	02-02/24-05-014	02/06/2018	02/06/2015	09/12/2017	09/12/2016
	Sucoflex N-2000-SMA	02-02/50-05-075				
	KMS102-1 m	02-02/50-11-014				
	KMS102-0.2 m	02-02/50-11-020				
	SF104/11N/11N/1500MM	02-02/50-13-015				