

Test Report No. 7191122210-EEC15/01
dated 09 Oct 2015



PSB Singapore

Note: This report is issued subject to the Testing and Certification Regulations of the TÜV SÜD Group and the General Terms and Conditions of Business of TÜV SÜD PSB Pte Ltd. In addition, this report is governed by the terms set out within this report.

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FORMAL REPORT ON TESTING IN ACCORDANCE WITH
47 CFR FCC Part 22, 74, 80, 90
RSS-119
OF A
HANDHELD RADIO
[Model : AAH56RDN9RA1AN]
[FCC ID : AZ489FT7065]
[IC : 109U-89FT7065]

TEST FACILITY TÜV SÜD PSB Pte Ltd
Electrical & Electronics Centre (EEC), Product Services,
No. 1 Science Park Drive, Singapore 118221

FCC REG. NO. 99142 (3m and 10m Semi-Anechoic Chamber, Science Park)

IND. CANADA REG. NO. 2932I-1 (3m and 10m Semi-Anechoic Chamber, Science Park)

PREPARED FOR Motorola Solutions Malaysia Sdn Bhd
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QUOTATION NUMBER 2191024451

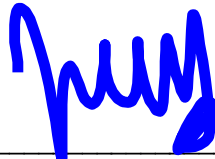
JOB NUMBER 7191122210

TEST PERIOD 23 Sep 2015 - 28 Sep 2015

PREPARED BY


Quek Keng Huat
Higher Associate Engineer

APPROVED BY


Lim Cher Hwee
Assistant Vice President



LA-2007-0380-A
LA-2007-0381-F
LA-2007-0382-B
LA-2007-0383-G

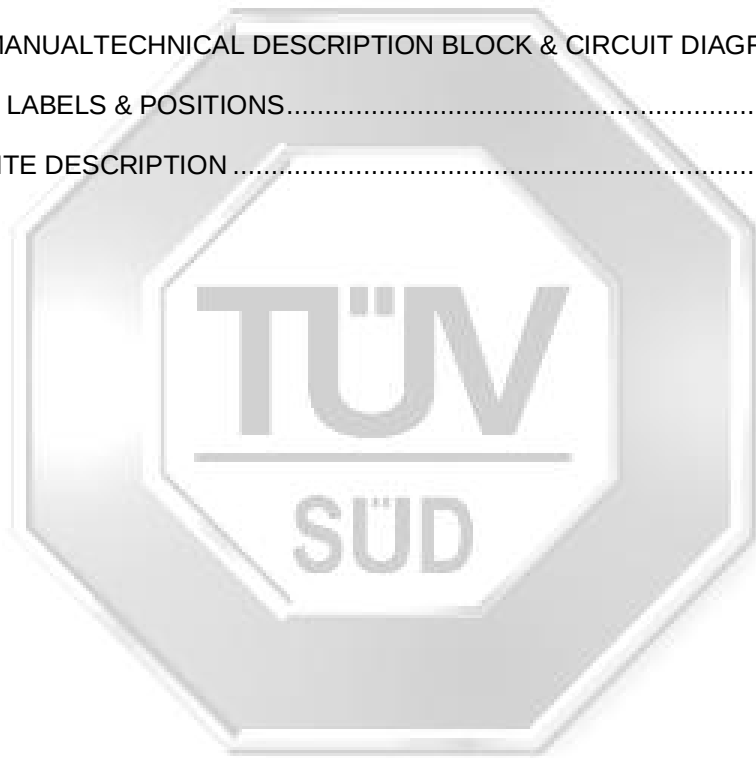
LA-2007-0384-G
LA-2007-0385-E
LA-2007-0386-C
LA-2010-0464-D

The results reported herein have been performed in accordance with the laboratory's terms of accreditation under the Singapore Accreditation Council - Singapore Laboratory Accreditation Scheme. Tests/Calibrations marked "Not SAC-SINGLAS Accredited" in this Report are not included in the SAC-SINGLAS Accreditation Schedule for our laboratory.



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TEST SUMMARY

The product was tested in accordance with the customer's specifications.

Test Results Summary

Test Standard	Description	Pass / Fail
47 CFR FCC Part 22, Part 74, Part 80, Part 90 and RSS-119		
90.210	Radiated Transmitter Unwanted Emission	Pass
22.359		Pass
74.462		Pass
RSS-119 Sec 4.2, 5.8		Pass

Notes

1. All test measurement procedures are according to ANSI/TIA-603-D: 2010.
2. Measurements are from 1GHz to 10GHz only.

Modifications

No modifications were made.



PRODUCT DESCRIPTION

Description	: The Equipment Under Test (EUT) is a HANDHELD RADIO .
Applicant	: Motorola Solutions Malaysia Sdn Bhd Plot 2, Technoplex Industrial Park Mukim 12 Swd, Medan Bayan Lepas, Bayan Lepas Industrial Park, 11900 Bayan Lepas, Pulau Penang, Malaysia
Manufacturer	: Motorola Solutions Malaysia Sdn Bhd Plot 2, Technoplex Industrial Park Mukim 12 Swd, Medan Bayan Lepas, Bayan Lepas Industrial Park, 11900 Bayan Lepas, Pulau Penang, Malaysia
Factory (ies)	: Motorola Solutions Malaysia Sdn Bhd Plot 2, Technoplex Industrial Park Mukim 12 Swd, Medan Bayan Lepas, Bayan Lepas Industrial Park, 11900 Bayan Lepas, Pulau Penang, Malaysia
Model Number	: AAH56RDN9RA1AN
Regulatory ID	: FCC: AZ489FT7065 IC: 109U-89FT7065
Serial Number	: 871TRP0201
Microprocessor	: Ti OMAPL138BZCEA3R
Operating / Transmitting Frequency	: <u>Bluetooth / Bluetooth LE</u> 2.402GHz (lower channel) to 2.480GHz (upper channel) 79 channels (Bluetooth), 40 channels (Bluetooth LE) <u>WiFi</u> 2.412GHz (lower channel) to 2.462GHz (upper channel) 11 channels <u>Land Mobile</u> 403MHz to 527MHz /Channel Spacing 12.5kHz/25kHz
Clock / Oscillator Frequency	: Reference Clock: 38.4 MHz , LO: 806 MHz - 1054 MHz
Modulation	: <u>Bluetooth</u> Gaussian Frequency Shift Keying (GFSK) ($\pi/4$) DQPSK 8DPSK <u>Land Mobile</u> Frequency Modulation (FM)
Antenna Gain	: 2.15 dBi



PRODUCT DESCRIPTION

Port / Connectors : Refer to manufacturer's user manual / operating manual

Rated Input Power : 7.4Vdc 20.7Wh 2800mAh Lithium ION battery

Accessories : Refer to manufacturer's user manual / operating manual





SUPPORTING EQUIPMENT DESCRIPTION

The EUT was tested as a stand-alone unit without any supporting equipment.





EUT OPERATING CONDITIONS

47 CFR FCC Part 22, Part 74, Part 80, Part 90 and RSS-119

1. Radiated Unwanted Emissions

The EUT was exercised by operating in maximum continuous transmission in the test mode.



RADIATED TRANSMITTER UNWANTED EMISSION TEST

47 CFR FCC Part 90.210 Radiated Transmitter Unwanted Emission Test Instrumentation

Instrument	Model	S/No	Cal Due Date	Cal Interval
Agilent EMC Analyzer (9kHz-26.5GHz)	E7405A	US40240195	19 Mar 2016	1 year
R&S Preamplifier (1GHz -18GHz)	SCU18	102191	13 Mar 2016	1 year
EMCO Horn Antenna(1GHz-18GHz)	3115	0003-6088	20 Apr 2016	1 year



RADIATED TRANSMITTER UNWANTED EMISSION TEST

47 CFR FCC Part 90.210 Radiated Transmitter Unwanted Emission Test Setup

1. The EUT and supporting equipment were set up as shown in the test setup photo. The test was conducted in an anechoic chamber under the normal test condition.
2. The EUT was connected to an appropriate power source while all other supporting equipment were powered separately from another power source.
3. The resolution bandwidth (RBW) and the video bandwidth (VBW) of the spectrum analyser were set accordingly as per in the test requirement.
4. All other supporting equipment were powered separately from another filtered mains.

47 CFR FCC Part 90.210 Radiated Transmitter Unwanted Emission Test Method

1. The EUT was set to transmit at the maximum power at the lower operating frequency with the modulation on at normal test condition.
2. The receiving antenna (test antenna) was set at vertical polarization with the height of 1m.
3. With the spectrum analyser was set to max hold enabled (peak detector mode), the emissions outside the operating frequency range (spurious emissions) that exceeded the allowable limits or come to within 6dB below the limit were searched and recorded.
4. For each spurious emission found, the test antenna was raised or lowered through the specified range of heights (1m – 4m) until a maximum signal level was detected on the test receiver.
5. The EUT was then rotated through 360° in the horizontal plane until the maximum signal was received. The maximum received signal level was recorded as A (in dBm).
6. The EUT was replaced with the substitution antenna with the antenna input was connected to the signal generator via a 10dB attenuator (if required).
7. The signal generator was set to the found spurious frequency. The output level of the signal generator was adjusted until the test receiver was at least 20dB above the level when the signal generator was switched off.
8. The test antenna was raised and lowered through the specified range of heights (1m – 4m) until the maximum signal level was received on the test receiver.
9. The substitution antenna was rotated until the maximum level was detected on the test receiver.
10. The output level of the signal generator was adjusted until the received signal level at the test receiver was equal to the level recorded in step 6 (A dBm). The signal generator output level was recorded as B (in dBm).
11. The spurious emission level, P (e.r.p / e.i.r.p) was computed as followed:
$$P(e.i.r.p) = B - C - D + E$$
$$P(e.r.p) = P(e.i.r.p) - 2.15$$

where	C	=	cable loss between the signal generator and the substitution
	D	=	attenuation level if attenuator is used
	E	=	substitution antenna gain
12. The steps 2 to 11 were repeated with the receiving antenna was set to horizontal polarization.
13. Comparison was made on both measured results with vertical and horizontal polarizations. The highest value out of vertical and horizontal polarizations was recorded.
14. The steps 2 to 13 were repeated until all the spurious emissions were measured.
15. The steps 1 to 14 were repeated with the EUT was set to operate at the upper operating frequency.

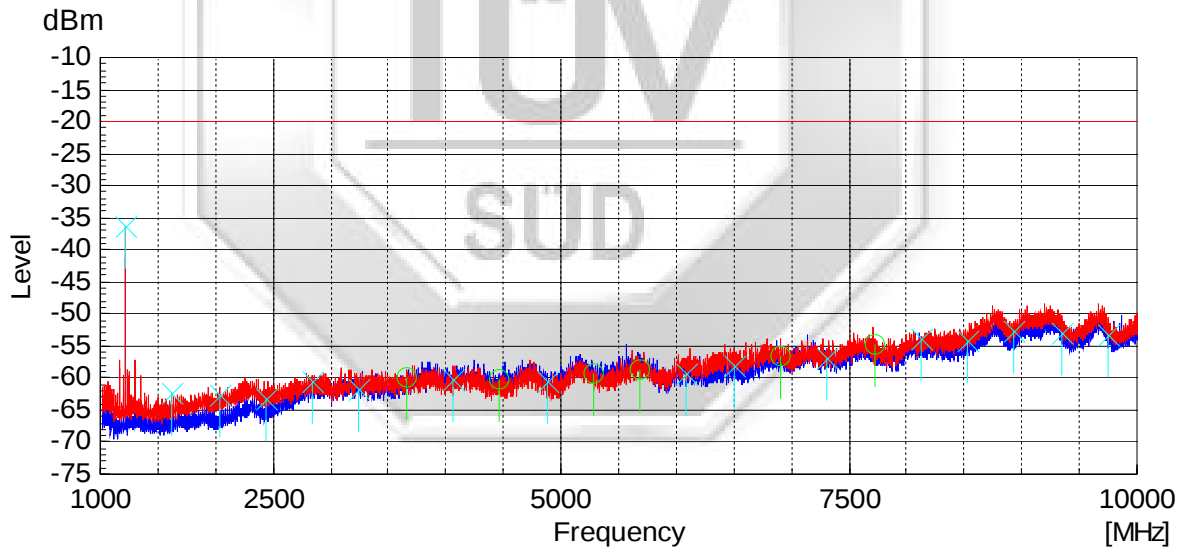
RADIATED TRANSMITTER UNWANTED EMISSION TEST

47 CFR FCC Part 90.210 Radiated Transmitter Unwanted Emission Results

Operating Mode	Transmit	Temperature	24°C
Test Input Power	7.4Vdc	Relative Humidity	60%
Test Distance	3m	Atmospheric Pressure	1030mbar
Modulation	Digital 12.5kHz Max Power	Tested By	Lim Kay Tak, Li Chelmin

406.2MHz

Frequency (MHz)	Amplitude (dBm)	Limit (dBm)
1218.8680	-36.4	-20.0
8123.8240	-53.8	-20.0
8530.2410	-54.1	-20.0
8936.1650	-52.7	-20.0
9342.5820	-52.9	-20.0
9748.9980	-53.3	-20.0



406.2MHz (Digital) 1GHz – 10GHz

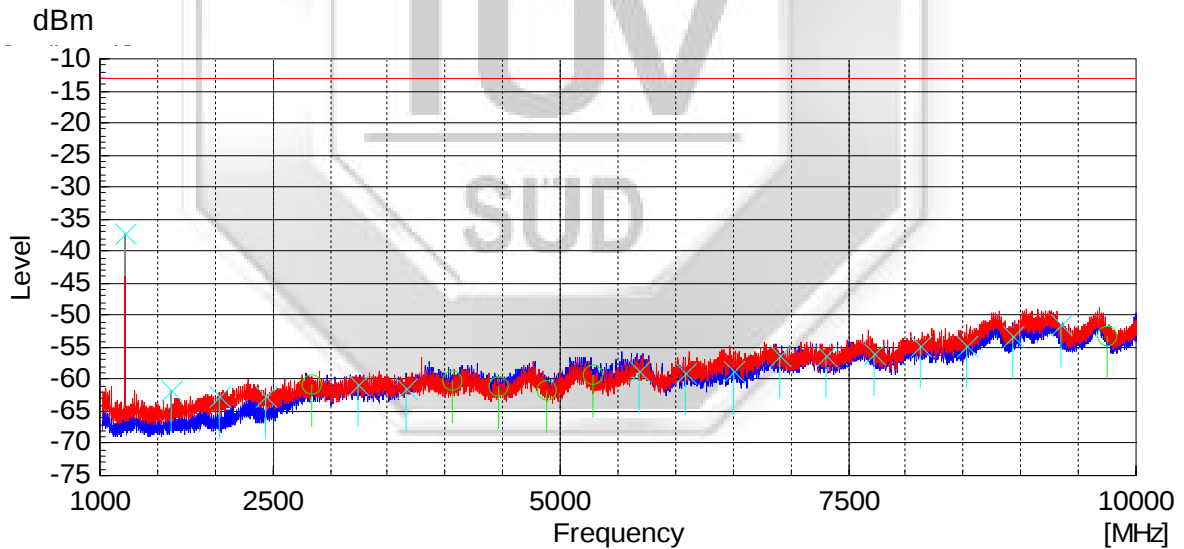
RADIATED TRANSMITTER UNWANTED EMISSION TEST

47 CFR FCC Part 90.210 Radiated Transmitter Unwanted Emission Results

Operating Mode	Transmit	Temperature	24°C
Test Input Power	7.4Vdc	Relative Humidity	60%
Test Distance	3m	Atmospheric Pressure	1030mbar
Modulation	Analog 25kHz Max Power	Tested By	Lim Kay Tak, Li Chelmin

406.2MHz

Frequency (MHz)	Amplitude (dBm)	Limit (dBm)
1218.8680	-37.2	-13.0
8123.8240	-54.6	-13.0
8530.2410	-54.7	-13.0
8936.1650	-53.4	-13.0
9342.5820	-51.3	-13.0
9750.9720	-53.2	-13.0



406.2MHz (Analog) 1GHz – 10GHz

*Not Applicable for FCC Part 90.

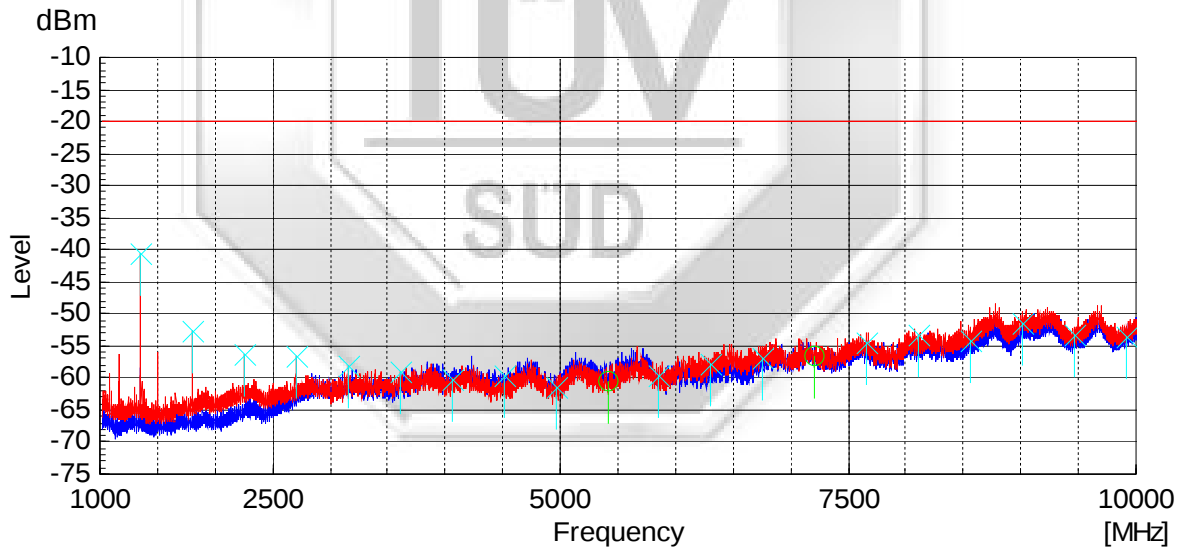
RADIATED TRANSMITTER UNWANTED EMISSION TEST

47 CFR FCC Part 90.210 Radiated Transmitter Unwanted Emission Results

Operating Mode	Transmit	Temperature	24°C
Test Input Power	7.4Vdc	Relative Humidity	60%
Test Distance	3m	Atmospheric Pressure	1030mbar
Modulation	Digital 12.5kHz Low Power	Tested By	Lim Kay Tak, Li Chelmin

450.65MHz

Frequency (MHz)	Amplitude (dBm)	Limit (dBm)
1352.0390	-40.5	-20.0
1802.7230	-52.7	-20.0
8112.4800	-53.2	-20.0
9014.0940	-51.3	-20.0
9464.9010	-53.1	-20.0
9915.2150	-53.7	-20.0



450.65MHz (Digital) 1GHz – 10GHz

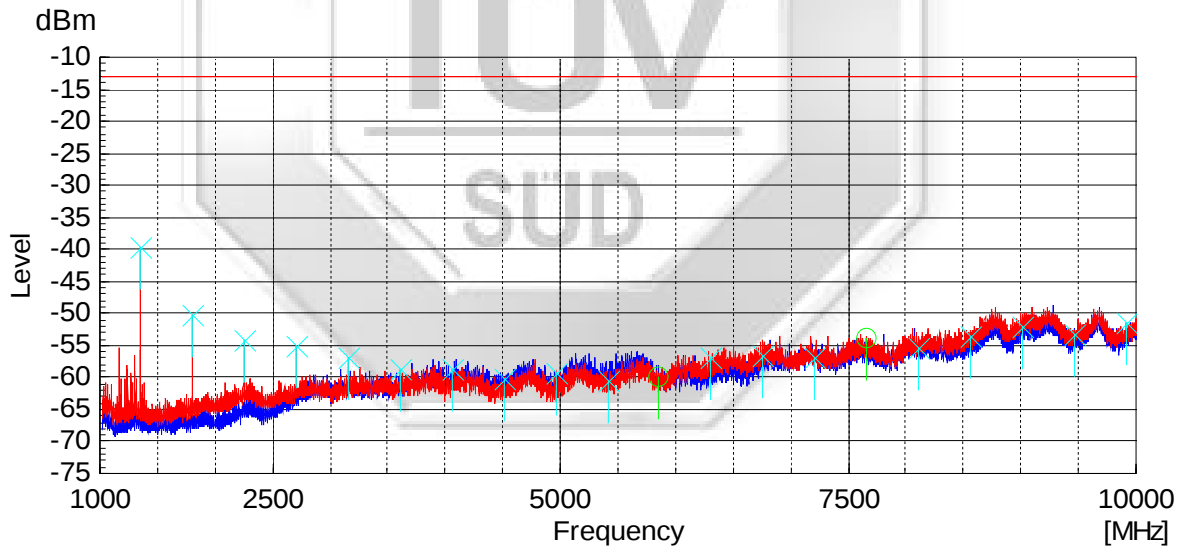
RADIATED TRANSMITTER UNWANTED EMISSION TEST

47 CFR FCC Part 90.210 Radiated Transmitter Unwanted Emission Results

Operating Mode	Transmit	Temperature	24°C
Test Input Power	7.4Vdc	Relative Humidity	60%
Test Distance	3m	Atmospheric Pressure	1030mbar
Modulation	Analog 25kHz Low Power	Tested By	Lim Kay Tak, Li Chelmin

450.65MHz

Frequency (MHz)	Amplitude (dBm)	Limit (dBm)
1352.0390	-39.7	-13.0
1802.7230	-50.3	-13.0
8563.2870	-53.6	-13.0
9014.0940	-51.9	-13.0
9464.9010	-53.2	-13.0
9915.2150	-51.4	-13.0



450.65MHz (Analog) 1GHz – 10GHz

*Not Applicable for FCC Part 90.

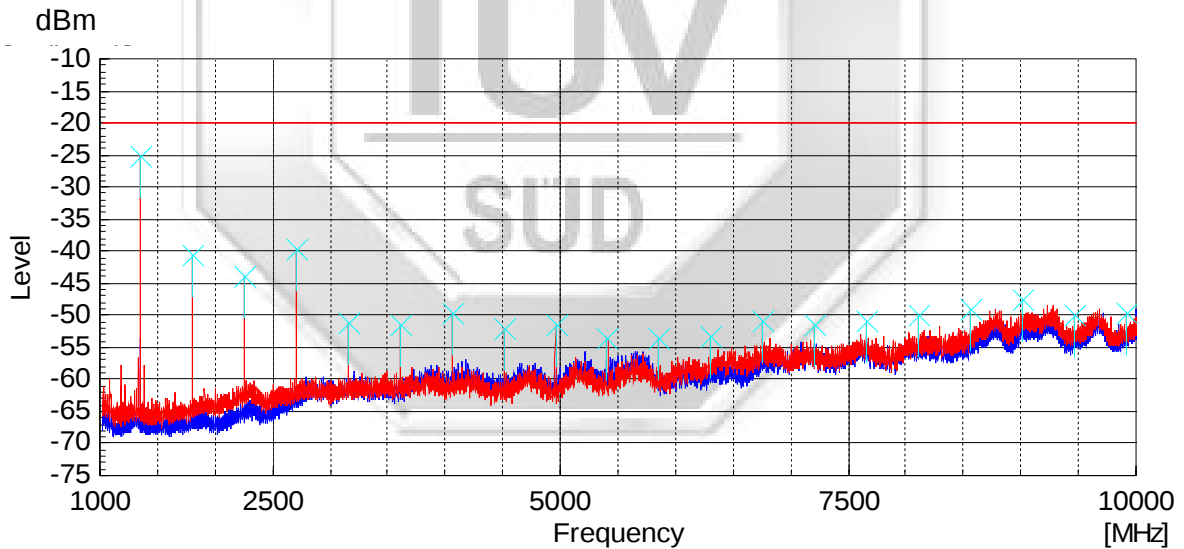
RADIATED TRANSMITTER UNWANTED EMISSION TEST

47 CFR FCC Part 90.210 Radiated Transmitter Unwanted Emission Results

Operating Mode	Transmit	Temperature	24°C
Test Input Power	7.4Vdc	Relative Humidity	60%
Test Distance	3m	Atmospheric Pressure	1030mbar
Modulation	Digital 12.5kHz Max Power	Tested By	Lim Kay Tak, Li Chelmin

450.65MHz

Frequency (MHz)	Amplitude (dBm)	Limit (dBm)
3605.4570	-51.4	-20.0
4506.2080	-52.2	-20.0
5407.5760	-53.5	-20.0
5858.8760	-53.6	-20.0
6309.2520	-53.3	-20.0
7210.3730	-51.4	-20.0



450.65MHz (Digital) 1GHz - 10GHz

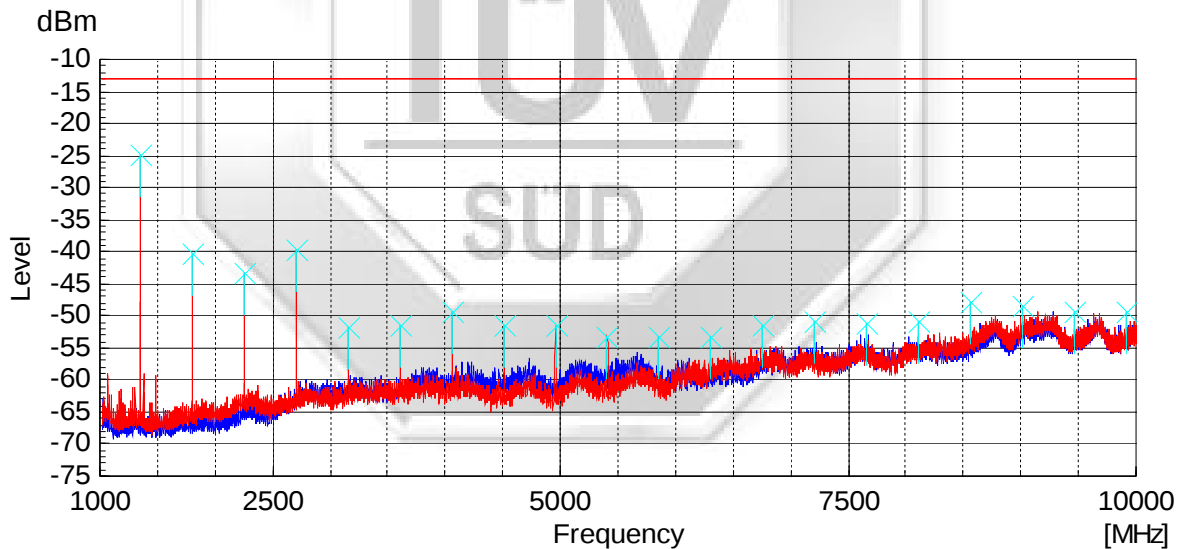
RADIATED TRANSMITTER UNWANTED EMISSION TEST

47 CFR FCC Part 90.210 Radiated Transmitter Unwanted Emission Results

Operating Mode	Transmit	Temperature	24°C
Test Input Power	7.4Vdc	Relative Humidity	60%
Test Distance	3m	Atmospheric Pressure	1030mbar
Modulation	Analog 25kHz Max Power	Tested By	Lim Kay Tak, Li Chelmin

450.65MHz

Frequency (MHz)	Amplitude (dBm)	Limit (dBm)
1352.0390	-24.8	-13.0
1802.7230	-40.1	-13.0
2253.4060	-43.3	-13.0
2704.0900	-39.6	-13.0
8562.3010	-47.8	-13.0
9013.1080	-48.4	-13.0



450.65MHz (Analog) 1GHz – 10GHz

*Not Applicable for FCC Part 90.

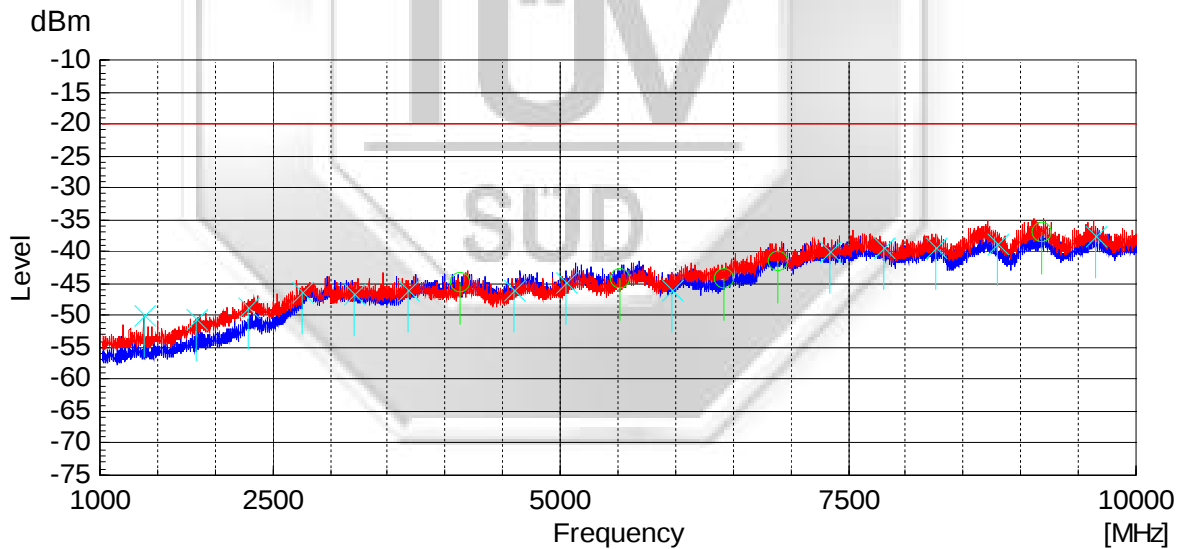
RADIATED TRANSMITTER UNWANTED EMISSION TEST

47 CFR FCC Part 90.210 Radiated Transmitter Unwanted Emission Results

Operating Mode	Transmit	Temperature	24°C
Test Input Power	7.4Vdc	Relative Humidity	60%
Test Distance	3m	Atmospheric Pressure	1030mbar
Modulation	Digital 12.5kHz Max Power	Tested By	Lim Kay Tak, Li Chelmin

459.125MHz

Frequency (MHz)	Amplitude (dBm)	Limit (dBm)
7345.5770	-39.9	-20.0
7803.9060	-39.4	-20.0
8263.3440	-39.4	-20.0
8792.6970	-38.6	-20.0
9182.2200	-37.0	-20.0
9641.6590	-37.6	-20.0



459.125MHz (Digital) 1GHz – 10GHz

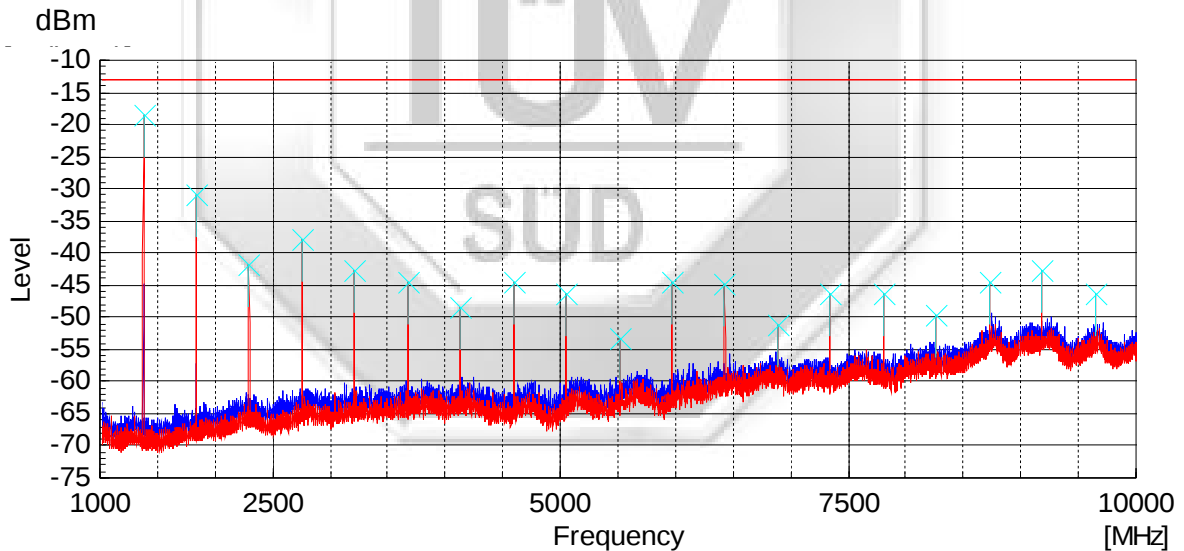
RADIATED TRANSMITTER UNWANTED EMISSION TEST

47 CFR FCC Part 90.210 Radiated Transmitter Unwanted Emission Results

Operating Mode	Transmit	Temperature	24°C
Test Input Power	7.4Vdc	Relative Humidity	60%
Test Distance	3m	Atmospheric Pressure	1030mbar
Modulation	Analog 25kHz Max Power	Tested By	Lim Kay Tak, Li Chelmin

459.125MHz

Frequency (MHz)	Amplitude (dBm)	Limit (dBm)
1377.3170	-18.3	-13.0
1836.6320	-30.8	-13.0
2295.9470	-41.8	-13.0
2754.6460	-37.9	-13.0
3213.9610	-42.7	-13.0
9182.7770	-42.5	-13.0



459.125MHz (Analog) 1GHz – 10GHz

*Not Applicable for FCC Part 90.

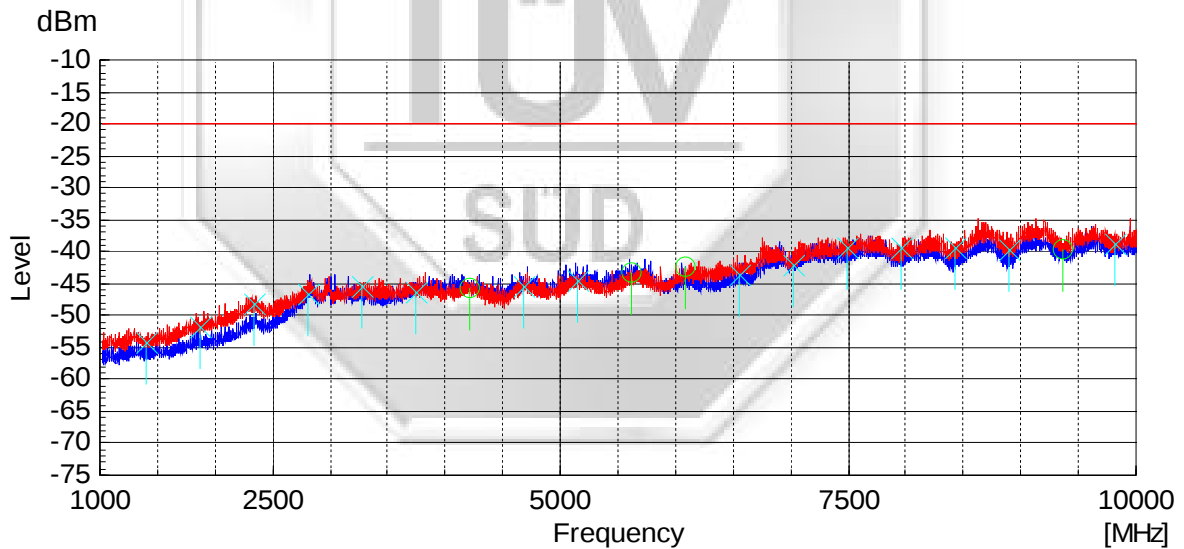
RADIATED TRANSMITTER UNWANTED EMISSION TEST

47 CFR FCC Part 90.210 Radiated Transmitter Unwanted Emission Results

Operating Mode	Transmit	Temperature	24°C
Test Input Power	7.4Vdc	Relative Humidity	60%
Test Distance	3m	Atmospheric Pressure	1030mbar
Modulation	Digital 12.5kHz Max Power	Tested By	Lim Kay Tak, Li Chelmin

467.775MHz

Frequency (MHz)	Amplitude (dBm)	Limit (dBm)
7484.2960	-39.4	-20.0
7952.6130	-39.4	-20.0
8420.9290	-39.4	-20.0
8888.1360	-39.6	-20.0
9356.4520	-39.5	-20.0
9823.6590	-38.8	-20.0



467.775MHz (Digital) 1GHz – 10GHz

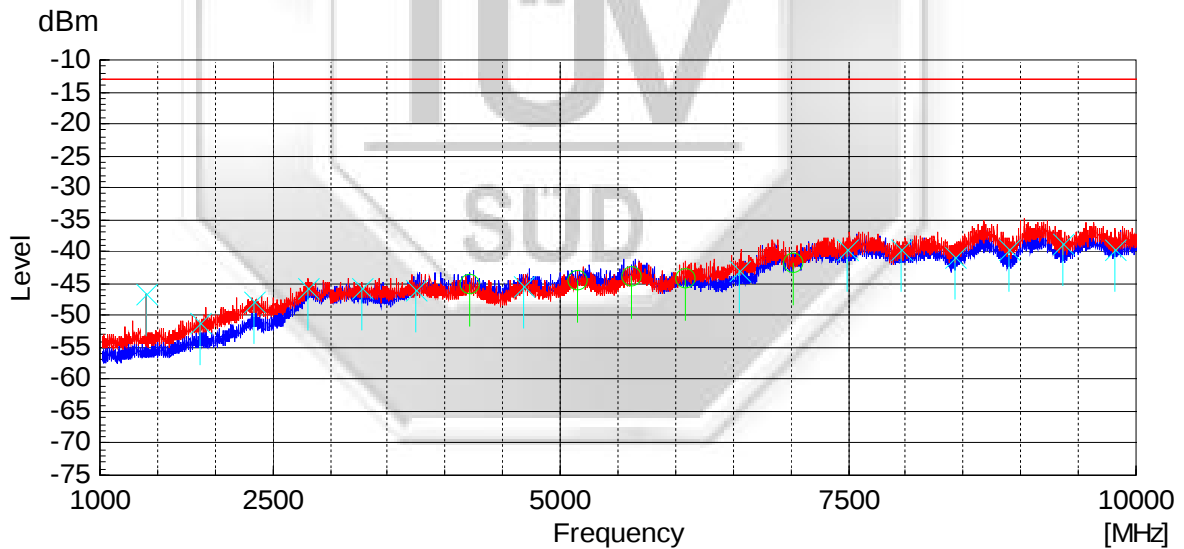
RADIATED TRANSMITTER UNWANTED EMISSION TEST

47 CFR FCC Part 90.210 Radiated Transmitter Unwanted Emission Results

Operating Mode	Transmit	Temperature	24°C
Test Input Power	7.4Vdc	Relative Humidity	60%
Test Distance	3m	Atmospheric Pressure	1030mbar
Modulation	Analog 25kHz Max Power	Tested By	Lim Kay Tak, Li Chelmin

467.775MHz

Frequency (MHz)	Amplitude (dBm)	Limit (dBm)
7484.2960	-39.7	-13.0
7952.6130	-39.6	-13.0
8420.9290	-41.0	-13.0
8888.1360	-39.7	-13.0
9356.4520	-38.7	-13.0
9823.6590	-39.5	-13.0



467.775MHz (Analog) 1GHz – 10GHz

*Not Applicable for FCC Part 90.

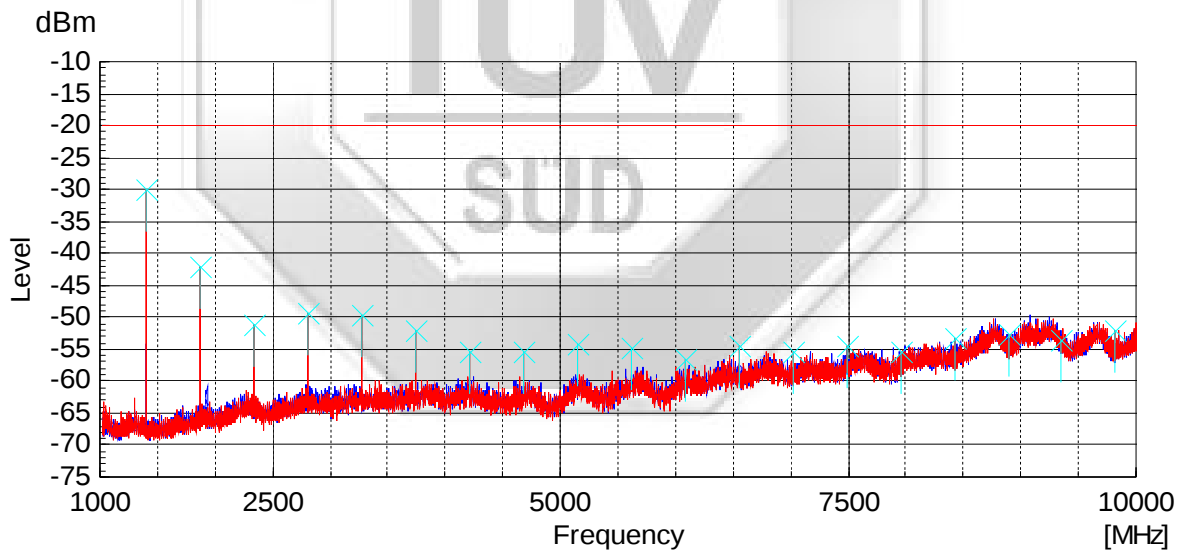
RADIATED TRANSMITTER UNWANTED EMISSION TEST

47 CFR FCC Part 90.210 Radiated Transmitter Unwanted Emission Results

Operating Mode	Transmit	Temperature	24°C
Test Input Power	7.4Vdc	Relative Humidity	60%
Test Distance	3m	Atmospheric Pressure	1030mbar
Modulation	Digital 12.5kHz Low Power	Tested By	Lim Kay Tak, Li Chelmin

467.775MHz

Frequency (MHz)	Amplitude (dBm)	Limit (dBm)
1403.2110	-30.0	-20.0
1871.1570	-42.2	-20.0
2339.1040	-51.0	-20.0
2806.4340	-49.4	-20.0
3274.3810	-49.5	-20.0
3742.3270	-51.9	-20.0



467.775MHz (Digital) 1GHz – 10GHz

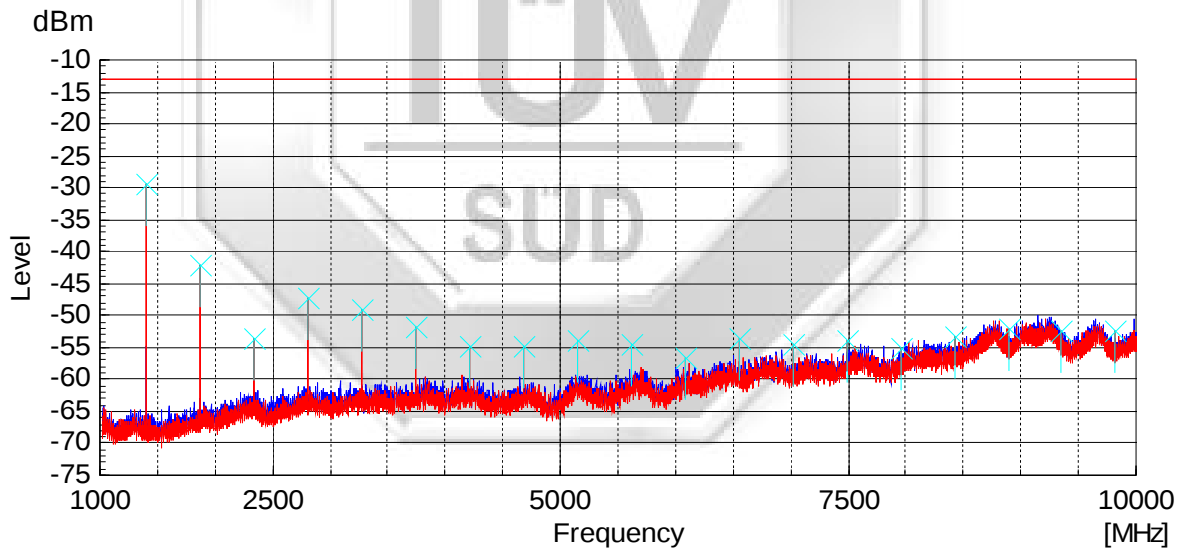
RADIATED TRANSMITTER UNWANTED EMISSION TEST

47 CFR FCC Part 90.210 Radiated Transmitter Unwanted Emission Results

Operating Mode	Transmit	Temperature	24°C
Test Input Power	7.4Vdc	Relative Humidity	60%
Test Distance	3m	Atmospheric Pressure	1030mbar
Modulation	Analog 25kHz Low Power	Tested By	Lim Kay Tak, Li Chelmin

467.775MHz

Frequency (MHz)	Amplitude (dBm)	Limit (dBm)
1403.2110	-29.2	-13.0
1871.1570	-42.1	-13.0
2806.4340	-47.3	-13.0
3274.3810	-48.9	-13.0
3742.3270	-51.7	-13.0
8887.8290	-52.1	-13.0



467.775MHz (Analog) 1GHz – 10GHz

*Not Applicable for FCC Part 90.

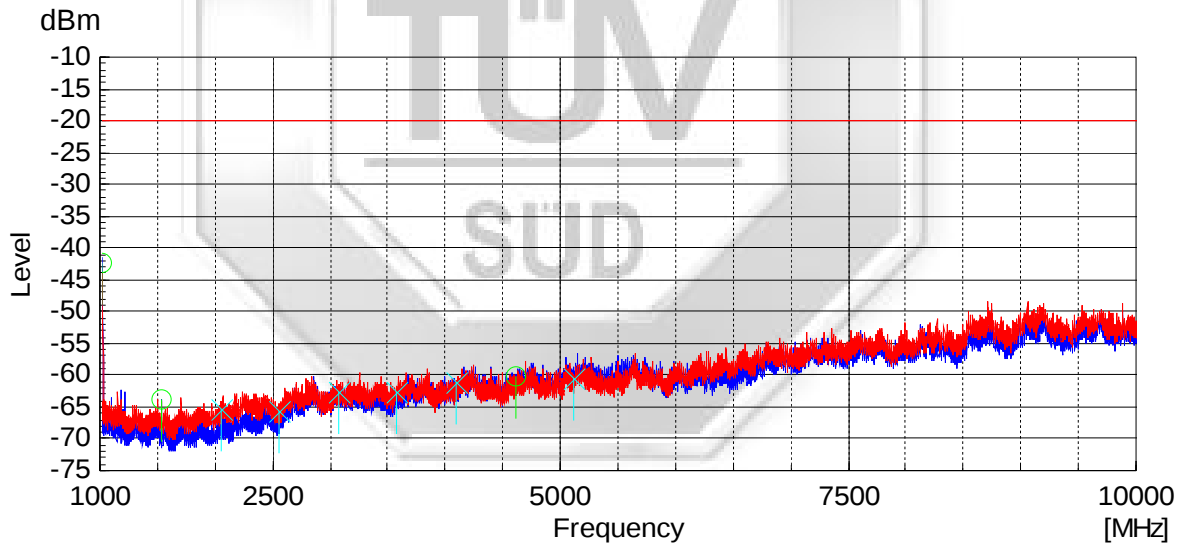
RADIATED TRANSMITTER UNWANTED EMISSION TEST

47 CFR FCC Part 90.210 Radiated Transmitter Unwanted Emission Results

Operating Mode	Transmit	Temperature	24°C
Test Input Power	7.4Vdc	Relative Humidity	60%
Test Distance	3m	Atmospheric Pressure	1030mbar
Modulation	Digital 12.5kHz Max Power	Tested By	Dylan Lin

511.9875MHz

Frequency (MHz)	Amplitude (dBm)	Limit (dBm)
1023.6750	-42.3	-20.0
3071.0490	-62.7	-20.0
3583.5090	-62.6	-20.0
4095.9690	-61.0	-20.0
4607.9360	-60.1	-20.0
5119.6070	-60.6	-20.0



511.9875MHz (Digital) 1GHz – 10GHz

*Not Applicable to IC Canada.

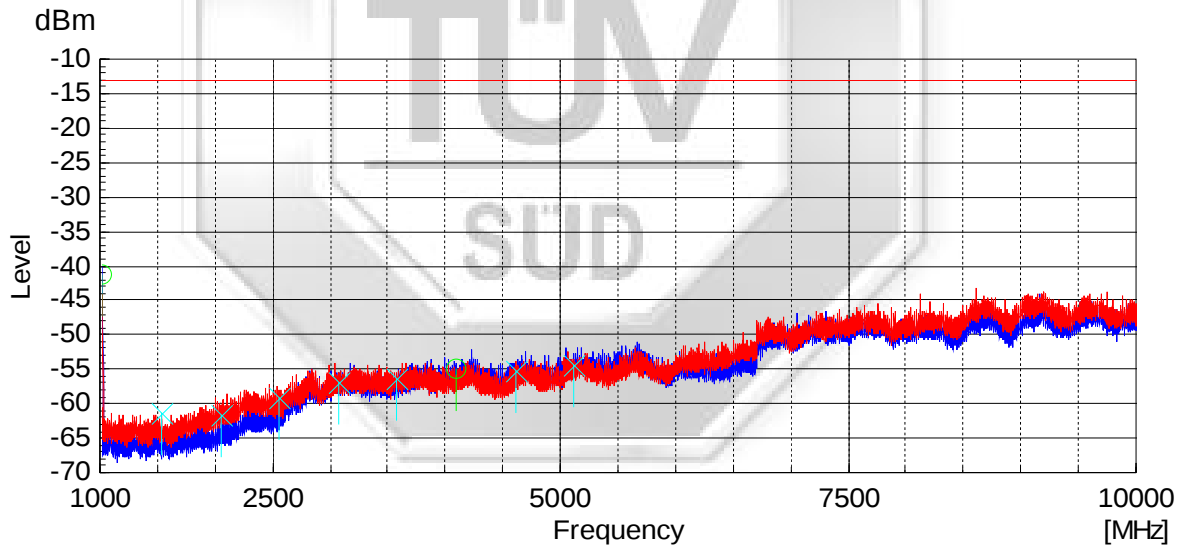
RADIATED TRANSMITTER UNWANTED EMISSION TEST

47 CFR FCC Part 90.210 Radiated Transmitter Unwanted Emission Results

Operating Mode	Transmit	Temperature	24°C
Test Input Power	7.4Vdc	Relative Humidity	60%
Test Distance	3m	Atmospheric Pressure	1030mbar
Modulation	Analog 25kHz Max Power	Tested By	Dylan Lin

511.9875MHz

Frequency (MHz)	Amplitude (dBm)	Limit (dBm)
1023.6750	-41.3	-13.0
3071.0490	-56.9	-13.0
3583.0160	-56.3	-13.0
4095.9690	-54.9	-13.0
4607.4420	-55.2	-13.0
5119.6070	-54.4	-13.0



511.9875MHz (Analog) 1GHz – 10GHz

*Not Applicable for FCC Part 90.

*Not Applicable to IC Canada.

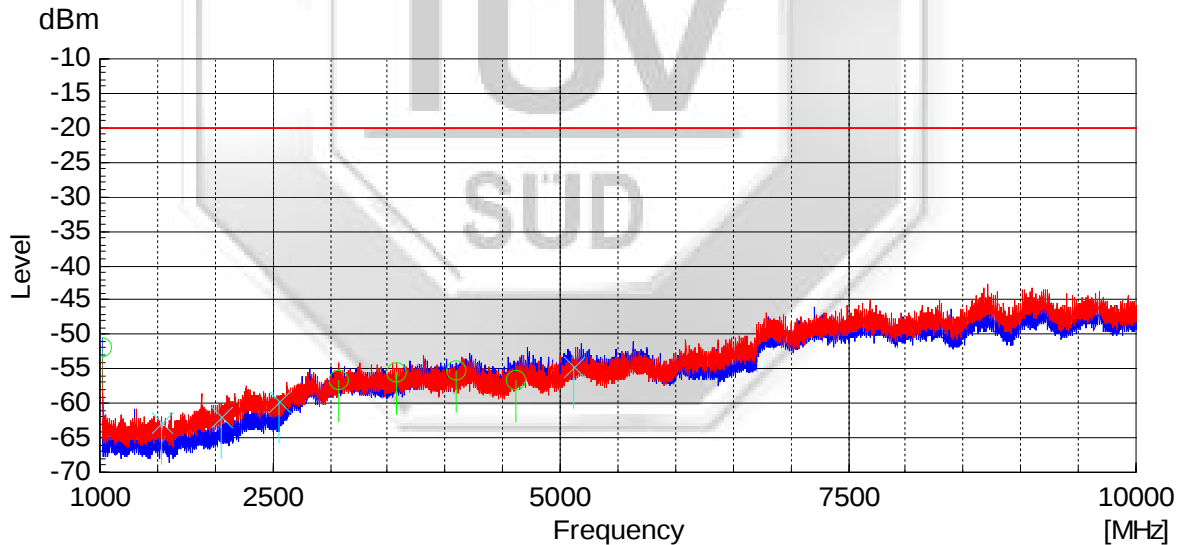
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47 CFR FCC Part 90.210 Radiated Transmitter Unwanted Emission Results

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Test Input Power	7.4Vdc	Relative Humidity	60%
Test Distance	3m	Atmospheric Pressure	1030mbar
Modulation	Digital 12.5kHz Low Power	Tested By	Dylan Lin

511.9875MHz

Frequency (MHz)	Amplitude (dBm)	Limit (dBm)
1023.6750	-51.9	-20.0
3072.0350	-56.6	-20.0
3583.5090	-55.6	-20.0
4095.9690	-55.2	-20.0
4607.9360	-56.7	-20.0
5119.6070	-54.7	-20.0



511.9875MHz (Digital) 1GHz – 10GHz

*Not Applicable to IC Canada.

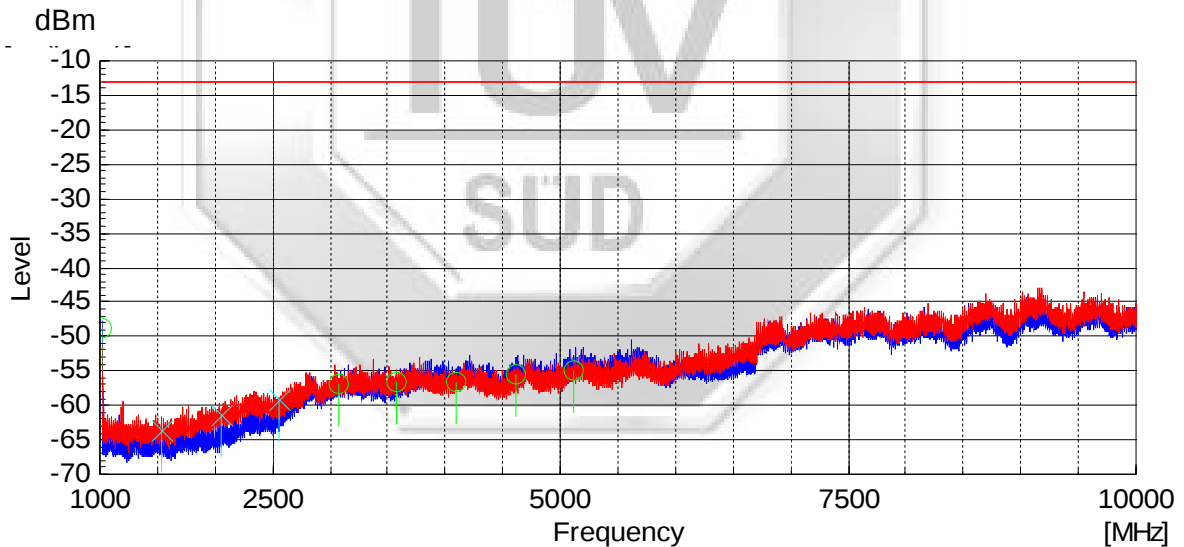
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47 CFR FCC Part 90.210 Radiated Transmitter Unwanted Emission Results

Operating Mode	Transmit	Temperature	24°C
Test Input Power	7.4Vdc	Relative Humidity	60%
Test Distance	3m	Atmospheric Pressure	1030mbar
Modulation	Analog 25kHz Low Power	Tested By	Dylan Lin

511.9875MHz

Frequency (MHz)	Amplitude (dBm)	Limit (dBm)
1023.6750	-48.9	-13.0
3072.0350	-56.9	-13.0
3583.0160	-56.7	-13.0
4095.9690	-56.7	-13.0
4607.9360	-55.5	-13.0
5119.6070	-54.9	-13.0



511.9875MHz (Analog) 1GHz – 10GHz

*Not Applicable for FCC Part 90.

*Not Applicable to IC Canada.

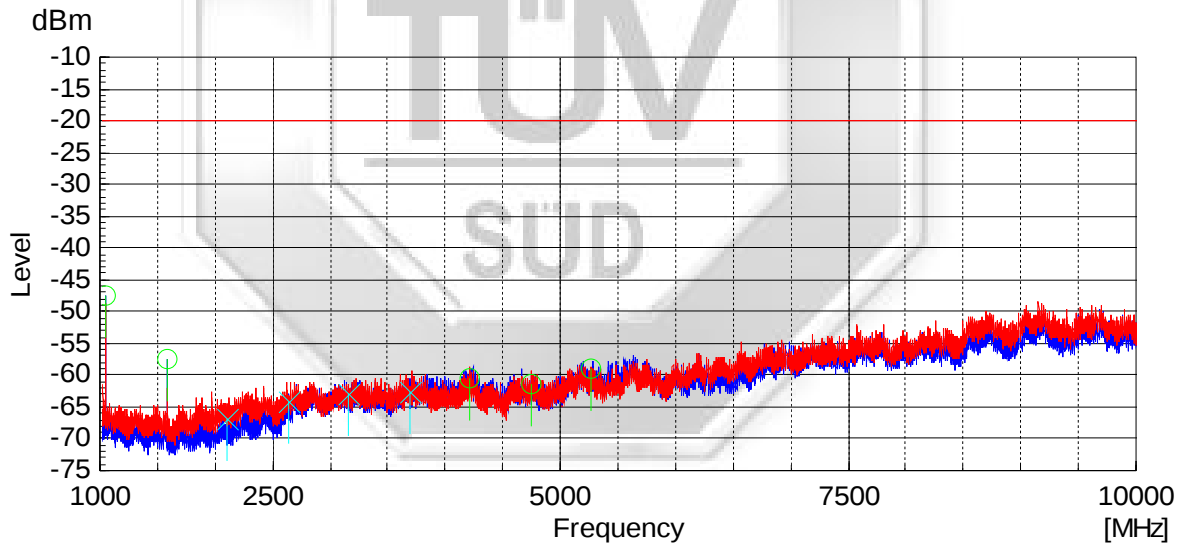
RADIATED TRANSMITTER UNWANTED EMISSION TEST

47 CFR FCC Part 90.210 Radiated Transmitter Unwanted Emission Results

Operating Mode	Transmit	Temperature	24°C
Test Input Power	7.4Vdc	Relative Humidity	60%
Test Distance	3m	Atmospheric Pressure	1030mbar
Modulation	Digital 12.5kHz Max Power	Tested By	Dylan Lin

526.9875MHz

Frequency (MHz)	Amplitude (dBm)	Limit (dBm)
1053.7620	-47.6	-20.0
1581.0180	-57.6	-20.0
3688.5660	-62.5	-20.0
4215.8220	-60.6	-20.0
4742.5860	-61.3	-20.0
5270.0410	-59.0	-20.0



526.9875MHz (Digital) 1GHz – 10GHz

*Not Applicable for FCC Part 90.

*Not Applicable to IC Canada.

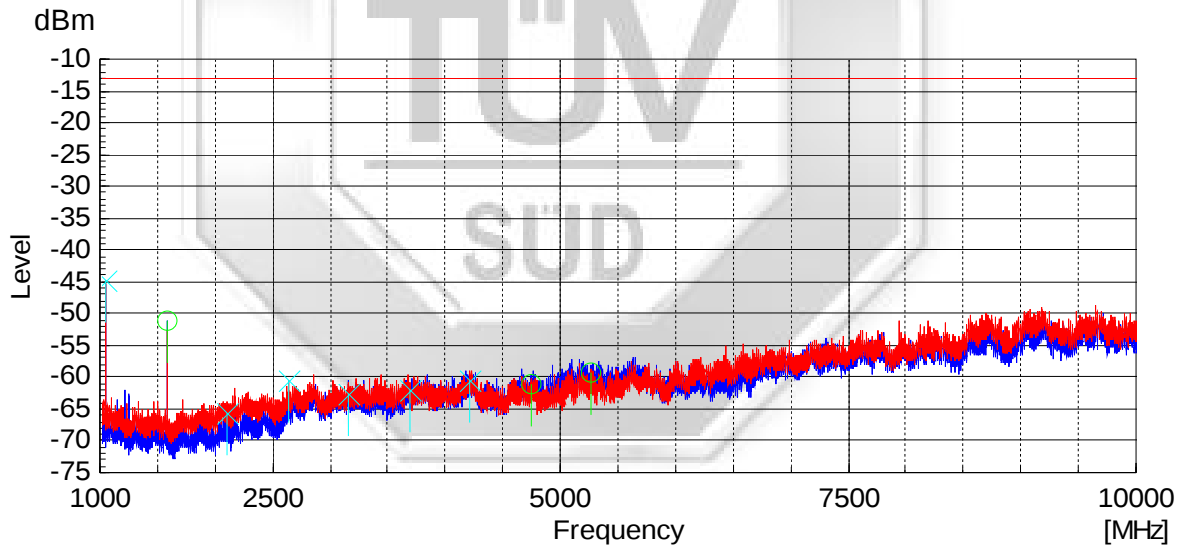
RADIATED TRANSMITTER UNWANTED EMISSION TEST

47 CFR FCC Part 90.210 Radiated Transmitter Unwanted Emission Results

Operating Mode	Transmit	Temperature	24°C
Test Input Power	7.4Vdc	Relative Humidity	60%
Test Distance	3m	Atmospheric Pressure	1030mbar
Modulation	Analog 25kHz Max Power	Tested By	Lim Kay Tak, Li Chelmin

526.9875MHz

Frequency (MHz)	Amplitude (dBm)	Limit (dBm)
1053.7620	-44.9	-13.0
1581.0180	-51.1	-13.0
2634.0520	-60.5	-13.0
4215.8220	-60.5	-13.0
4742.5860	-60.9	-13.0
5269.4240	-59.1	-13.0



526.9875MHz (Analog) 1GHz – 10GHz

*Not Applicable for FCC Part 90.

*Not Applicable to IC Canada.



RADIATED TRANSMITTER UNWANTED EMISSION TEST

Notes

1. All possible modes of operation were investigated. Only the worst case emissions measured were reported. All other emissions were relatively insignificant.
2. The transmitting antenna was found to be in the worst case condition when it was orientated in a vertical position.
3. A "positive" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency. Conversely, a "negative" margin indicates a FAIL.
4. EMI receiver Resolution Bandwidth (RBW) and Video Bandwidth (VBW) settings:
>1GHz
RBW: 1MHz VBW: 1MHz
5. Radiated Transmitter Unwanted Emissions Test Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of 95%, with a coverage factor of 2 is $\pm 4.0\text{dB}$.





Please note that this Report is issued under the following terms :

1. This report applies to the sample of the specific product/equipment given at the time of its testing/calibration. The results are not used to indicate or imply that they are applicable to other similar items. In addition, such results must not be used to indicate or imply that TÜV SÜD PSB approves, recommends or endorses the manufacturer, supplier or user of such product/equipment, or that TÜV SÜD PSB in any way "guarantees" the later performance of the product/equipment. Unless otherwise stated in this report, no tests were conducted to determine long term effects of using the specific product/equipment.
2. The sample/s mentioned in this report is/are submitted/supplied/manufactured by the Client. TÜV SÜD PSB therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture, consignment or any information supplied.
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5. Unless otherwise stated, the tests were carried out in TÜV SÜD PSB Pte Ltd, No.1 Science Park Drive Singapore 118221.

July 2011



ANNEX A TEST SETUP / EUT PHOTOGRAPHS / DIAGRAMS

ANNEX A
TEST SETUP / EUT PHOTOGRAPHS / DIAGRAMS

ANNEX A TEST SETUP / EUT PHOTOGRAPHS / DIAGRAMS

TEST SETUP



Transmitter Spurious Emissions (Radiated) Test Setup (Front View)



Transmitter Spurious Emissions (Radiated) Test Setup (Rear View)

ANNEX A TEST SETUP / EUT PHOTOGRAPHS / DIAGRAMS

EUT PHOTOGRAPHS

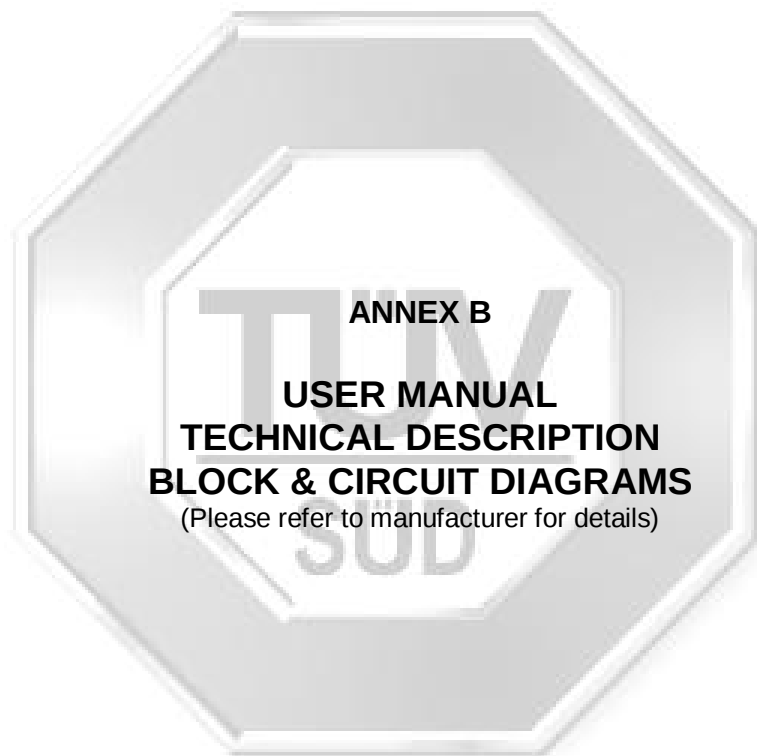


Front View



Rear View

ANNEX B USER MANUAL TECHNICAL DESCRIPTION BLOCK & CIRCUIT DIAGRAMS



ANNEX C FCC, IC LABELS & POSITIONS





ANNEX D TEST SITE DESCRIPTION



ANNEX D TEST SITE DESCRIPTION

Radiated Emission Test Site Description

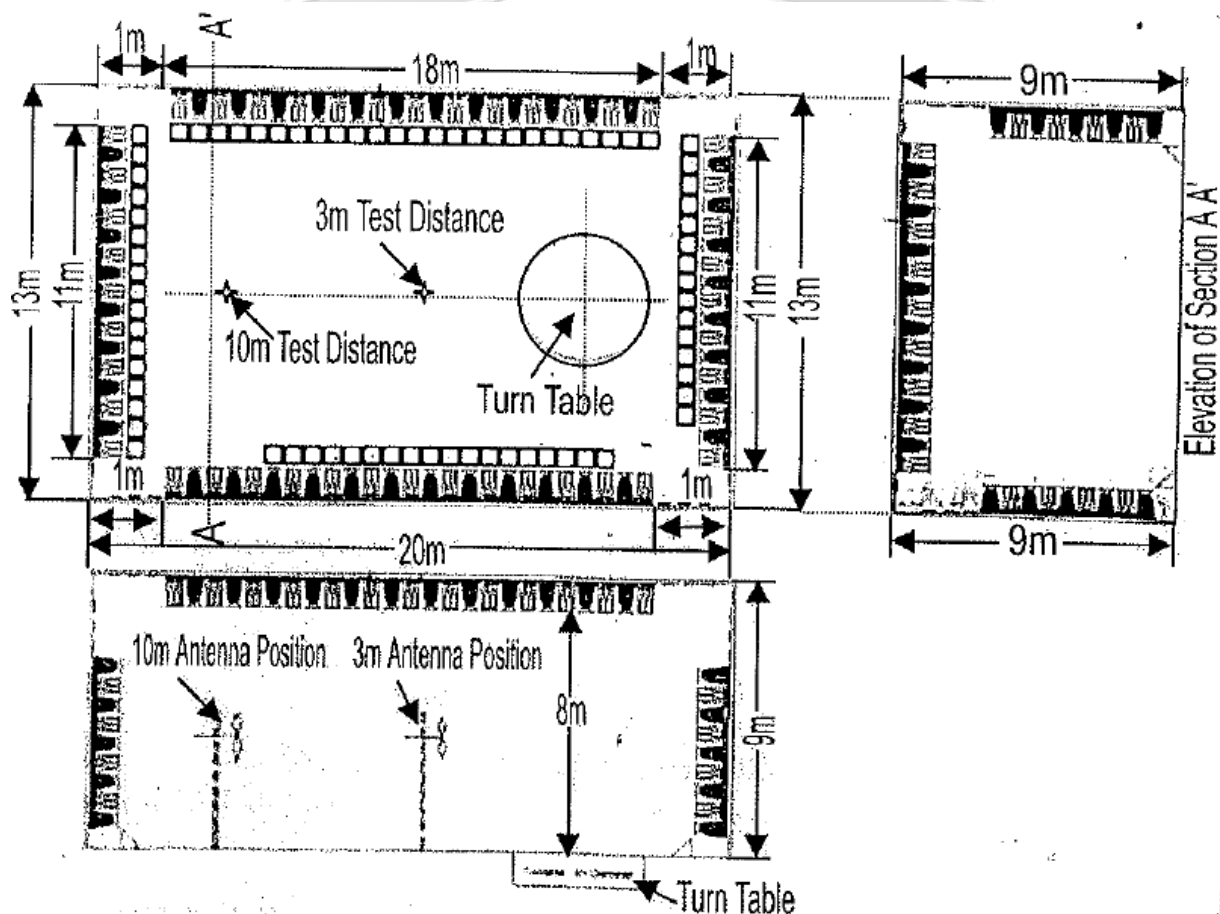
The Radiated Emission test facility consists of a RF-shielded enclosure (Model: 04" x 07") manufactured by Lindgren whose dimensions are shown below. The exterior of the chamber is made of rigid steel panels while the interior is covered with RF absorbing panels on the 4 walls and ceiling. The steel-clad ground plane is covered with vinyl flooring.

The Turntable (Model: FM4044) is manufactured by Sunol Sciences Corporation and is mounted flush with the chamber floor and is driven by a pneumatic motor, which is capable of supporting 4,000 kg.

The Boresight Antenna mast (Model: TLT2) is manufactured by Sunol Sciences Corporation and is driven by a pneumatic motor with heights variation from 1m- 4m for both vertical and horizontal polarity and with tilt capability.

Both turntable and antenna mast in the chamber are controlled by Sunol Science System Controller SC104V stationed outside the chamber.

The physical layout of the chamber is show below:



ANNEX D TEST SITE DESCRIPTION

Conducted Emission Test Site Description

The Conducted Emission facility consists of an RF-shielded enclosure measuring 4.3m x 3.7m x 2.45m manufactured by Universal Shielding Corporation. The Conducted Emission data were taken using two LISN; Schaffner NNB42 & EMCO 3825/2.

The physical layout of the test site is show below:

