



Microtest
微 测 检 测

Test Report

Report No.: MTi220302012-02E2

Date of issue: 2022-06-09

Applicant: UP(Guangzhou)Electronics Co., Ltd.

Product name: CAR MULTIMEDIA PLAYER WITH RADIO

Model(s): PLINDVTB7, PLINDVTB10, PLINEQ7,
PLINTBL10, PLINTBL7

FCC ID: 2A4GI-PLINDVTB7

Shenzhen Microtest Co., Ltd.
<http://www.mtitest.com>

Instructions

1. The report shall not be partially reproduced without the written consent of the laboratory;
2. The test results of this report are only responsible for the samples submitted;
3. This report is invalid without the seal and signature of the laboratory;
4. This report is invalid if transferred, altered or tampered with in any form without authorization;
5. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.



Table of Contents

1	GENERAL INFORMATION	7
1.1	DESCRIPTION OF EUT	7
1.2	OPERATION CHANNEL LIST	8
1.3	TEST CHANNEL LIST	8
1.4	ANCILLARY EQUIPMENT LIST	8
1.5	DESCRIPTION OF SUPPORT UNITS	9
2	SUMMARY OF TEST RESULTS	10
3	TEST FACILITIES AND ACCREDITATIONS	11
3.1	TEST LABORATORY	11
3.2	ENVIRONMENTAL CONDITIONS	11
3.3	MEASUREMENT UNCERTAINTY	11
3.4	TEST SOFTWARE	11
4	EQUIPMENT LIST	12
5	TEST RESULT	13
5.1	ANTENNA REQUIREMENT	13
5.1.1	<i>Standard requirement</i>	13
5.1.2	<i>EUT antenna</i>	13
5.2	PEAK OUTPUT POWER	14
5.2.1	<i>Limit</i>	14
5.2.2	<i>Test setup</i>	14
5.2.3	<i>Test procedure</i>	14
5.2.4	<i>Test results</i>	15
5.3	POWER SPECTRAL DENSITY	16
5.3.1	<i>Limit</i>	16
5.3.2	<i>Test setup</i>	16
5.3.3	<i>Test procedure</i>	16
5.3.4	<i>Test results</i>	17
5.4	CONDUCTED EMISSION	21
5.4.1	<i>Limits</i>	21
5.4.2	<i>Test setup</i>	21
5.4.3	<i>Test procedure</i>	22
5.4.4	<i>Test results</i>	22
5.5	RADIATED SPURIOUS	23
5.5.1	<i>Limits</i>	23
5.5.2	<i>Test setup</i>	24
5.5.3	<i>Test procedure</i>	25
5.5.4	<i>Test results</i>	26
5.5.4.1	<i>Radiation emission</i>	26
5.5.4.2	<i>Band edge - radiated</i>	31
5.6	BAND EDGE - CONDUCTED	32
5.6.1	<i>Limits</i>	32
5.6.2	<i>Test setup</i>	32
5.6.3	<i>Test procedure</i>	32
5.6.4	<i>Test results</i>	33
5.7	6dB BANDWIDTH	37
5.7.1	<i>Limit</i>	37
5.7.2	<i>Test setup</i>	37
5.7.3	<i>Test procedure</i>	37
5.7.4	<i>Test results</i>	37
5.8	DUTY CYCLE	46
5.8.1	<i>Limit</i>	46
5.8.2	<i>Measuring instruments</i>	46



5.8.3	Test setup	46
5.8.4	Test procedure	46
5.8.5	Test Results	47
5.9	SPURIOUS RF CONDUCTED EMISSIONS	48
5.9.1	Limit	48
5.9.2	Measuring instruments	48
5.9.3	Test setup	48
5.9.4	Test procedure	48
5.9.5	Test results	48
PHOTOGRAPHS OF THE TEST SETUP		51
PHOTOGRAPHS OF THE EUT		52

TEST RESULT CERTIFICATION	
Applicant:	UP(Guangzhou)Electronics Co., Ltd.
Address:	2/F, Block 2, No. 13 Chaosheng Road, Jinghu Ave., Huadu Dist., Guangzhou, China
Manufacturer:	UP(Guangzhou)Electronics Co., Ltd.
Address:	2/F, Block 2, No. 13 Chaosheng Road, Jinghu Ave., Huadu Dist., Guangzhou, China
Factory:	UP(Guangzhou)Electronics Co., Ltd.
Address:	2/F, Block 2, No. 13 Chaosheng Road, Jinghu Ave., Huadu Dist., Guangzhou, China
Product description	
Product name.....:	CAR MULTIMEDIA PLAYER WITH RADIO
Trademark	Pyle
Model Name	PLINDVTB7
Serial Model.....	PLINDVTB10, PLINEQ7, PLINTBL10, PLINTBL7
Standards.....	FCC Part 15.247
Test procedure.....	ANSI C63.10-2013 KDB 558074 D01 D15.247 Meas Guidance v05r02
Date of Test	
Date (s) of performance of tests.....:	2022-03-02 ~ 2022-06-09
Test Result.....:	Pass

Testing Engineer

:



(Eugene Qiu)

Technical Manager

:



(Leon Chen)

Authorized Signatory

:



(Tom Xue)

1 General information

1.1 Description of EUT

Product name:	CAR MULTIMEDIA PLAYER WITH RADIO
Model name:	PLINDVTB7
Serial model:	PLINDVTB10, PLINEQ7, PLINTBL10, PLINTBL7
Model difference:	All the models are the same circuit and module, except the model name, appearance .
Operation frequency:	802.11b/g/n20:2412~2462 MHz 802.11n40:2422~2452 MHz
Modulation type:	IEEE 802.11b : DSSS (DBPSK, DQPSK, CCK) IEEE 802.11g/n (HT20/HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK)
Bit Rate of transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz) use 800 ns GI: 65.0/58.5/52.0/39.0/26.0/19.5/13.0/6.5 Mbps (MCS0~MCS7) 802.11n(40MHz) use 800 ns GI: 13.5/27/40.5/54/81/108/121.5/135Mbps
Antenna type:	External Antenna
Antenna gain:	0dBi
Max. output power:	19.85dBm
Power supply:	Input: DC 12V/10A
Adapter information:	N/A
Hardware version:	V1.0
Software version:	V1.0
Serial number:	MTi220302012-02-S0001

1.2 Operation channel list

Channel List for 802.11b/g/n (20)

Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	11	2462
06	2437	\	\

Channel List for 802.11n (40)

Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	07	2442
04	2427	08	2447
05	2432	09	2452
06	2437	\	\

1.3 Test channel list

Channel List for 802.11b/g/n (20)

Channel	Channel	Frequency (MHz)
Low	01	2412
Middle	06	2437
High	11	2462

Channel List for 802.11n (40)

Channel	Channel	Frequency (MHz)
Low	03	2422
Middle	06	2437
High	09	2452

1.4 Ancillary equipment list

Equipment	Model	S/N	Manufacturer	Certificate type
Accumulator	6-QW-45(370)-L	/	Camel Group Co., Ltd.	/



1.5 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
/	/	/	/	/	/
/	/	/	/	/	/

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2 Summary of Test Results

Test procedures according to the technical standards:

No.	Standard Section	Test Item	Result	Remark
1	15.203	Antenna Requirement	Pass	
2	15.247 (b)	Peak Output Power	Pass	
3	15.247 (e)	Power Spectral Density	Pass	
4	15.207	Conducted Emission	N/A	
5	15.247 (d) & 15.209	Radiated Spurious Emission	Pass	
6	15.205	Band Edge Emission	Pass	
7	15.247 (a)(2)	6dB Bandwidth	Pass	
8	558074 D01 15.247 Meas Guidance v05r02 Chapter 6	Duty Cycle	Pass	
9	15.247(d)	Spurious RF Conducted Emissions	Pass	

3 Test Facilities and Accreditations

3.1 Test laboratory

Test Laboratory	Shenzhen Microtest Co., Ltd
Location	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China.
FCC Registration No.:	448573

3.2 Environmental conditions

Temperature:	15°C~35°C
Humidity	20%~75%
Atmospheric pressure	98kPa~101kPa

3.3 Measurement uncertainty

The reported uncertainty of measurement $y \pm U$ where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$ providing a level of confidence of approximately 95 %

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^\circ\text{C}$
7	Humidity	$\pm 2\%$

3.4 Test software

Software Name	Manufacturer	Model	Version
Bluetooth and WiFi Test System	Shenzhen JS tonscent co., ltd	JS1120-3	2.5.77.0418

4 Equipment list

Equipment No.	Equipment Name	Manufacturer	Model	Serial No.	Calibration date	Due date
MTI-E043	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2022/05/05	2023/05/04
MTI-E044	TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-1338	2021/05/30	2023/05/29
MTI-E047	Amplifier	Hewlett-Packard	8447F	3113A06150	2022/05/05	2023/05/04
MTI-E089	ESG Vector Signal Generator	Agilent	N5182A	MY49060455	2022/05/05	2023/05/04
MTI-E058	ESG Series Analog Signal Generator	Agilent	E4421B	GB40051240	2022/05/05	2023/05/04
MTI-E062	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2022/05/05	2023/05/04
MTI-E066	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2022/05/05	2023/05/04
MTI-E078	Synthesized Sweeper	Agilent	83752A	3610A01957	2022/05/05	2023/05/04
MTI-E079	DC Power Supply	Agilent	E3632A	MY40027695	2022/05/05	2023/05/04
MTI-E045	Double Ridged Broadband Horn Antenna	schwarzbeck	BBHA 9120D	9120D-2278	2021/05/30	2023/05/29
MTI-E021	EMI Test Receiver	Rohde&schwarz	ESCS30	100210	2022/05/05	2023/05/04
MTI-E022	Pulse Limiter	Schwarzbeck	VSTD 9561-F	00679	2022/05/05	2023/05/04
MTI-E023	Artificial mains network	Schwarzbeck	NSLK 8127	NSLK 8127 #841	2022/05/05	2023/05/04
MTI-E046	Active Loop Antenna	Schwarzbeck	FMZB 1519B	00044	2021/05/30	2023/05/29
MTI-E048	Amplifier	Agilent	8449B	3008A02400	2022/05/05	2023/05/04
MTI-E072	Thermometer Clock Humidity Monitor	-	HTC-1	/	2022/05/05	2023/05/04

Note: the calibration interval of the above test instruments is 12 or 24 months and the calibrations are traceable to international system unit (SI).



5 Test Result

5.1 Antenna requirement

5.1.1 Standard requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device

5.1.2 EUT antenna

The EUT antenna is External antenna (0dBi). It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.

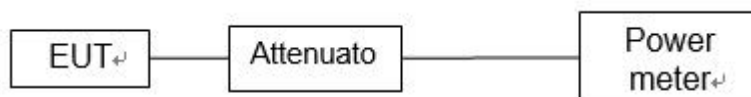


5.2 Peak output power

5.2.1 Limit

Section	Test Item	Limit	Frequency Range (MHz)
15.247(b)(3)	Peak output power	1 watt or 30dBm	2400-2483.5

5.2.2 Test setup



5.2.3 Test procedure

The EUT was directly connected to the Power meter.

5.2.4 Test results802.11b

Test Channel	Frequency (MHz)	Maximum Peak Conducted Output Power(dBm)	Limit (dBm)
CH01	2412	19.85	30
CH06	2437	17.42	30
CH11	2462	16.22	30

802.11g

Test Channel	Frequency (MHz)	Maximum Peak Conducted Output Power(dBm)	Limit (dBm)
CH01	2412	15.73	30
CH06	2437	16.05	30
CH11	2462	15.23	30

802.11n20

Test Channel	Frequency (MHz)	Maximum Peak Conducted Output Power(dBm)	Limit (dBm)
CH01	2412	15.42	30
CH06	2437	15.91	30
CH11	2462	14.99	30

802.11n40

Test Channel	Frequency (MHz)	Maximum Peak Conducted Output Power(dBm)	Limit (dBm)
CH03	2422	15.18	30
CH06	2437	15.38	30
CH09	2452	15.78	30



5.3 Power spectral density

5.3.1 Limit

Section	Test Item	Limit	Frequency Range (MHz)
15.247(e)	Power Spectral Density	8 dBm (in any 3kHz)	2400-2483.5

5.3.2 Test setup

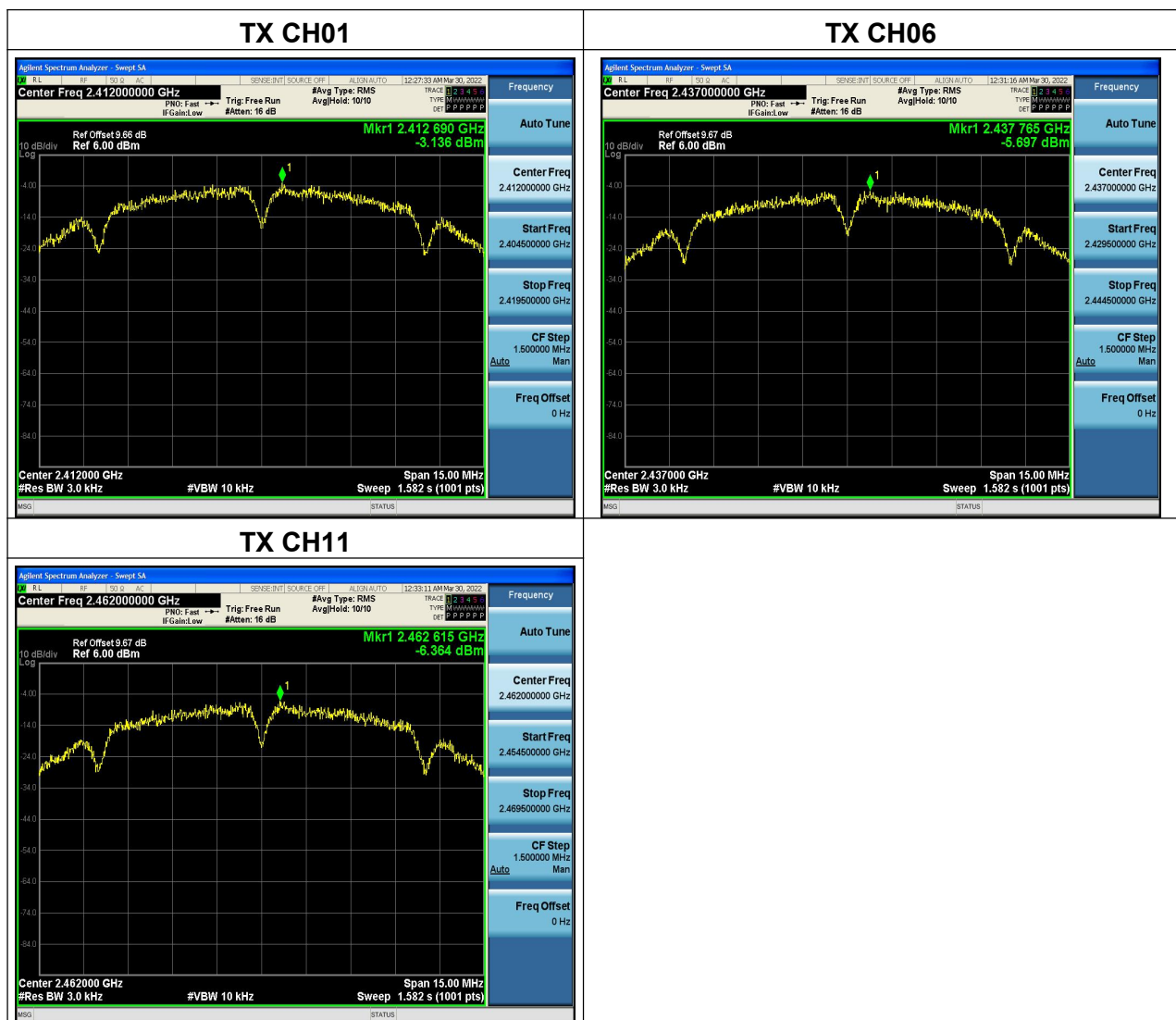


5.3.3 Test procedure

- The EUT tested system was configured as the statements of 2.1 unless otherwise a special operating condition is specified in the follows during the testing.
- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS channel bandwidth.
- Set the RBW ≥ 3 kHz.
- Set the VBW $\geq 3 \times$ RBW.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.
- If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

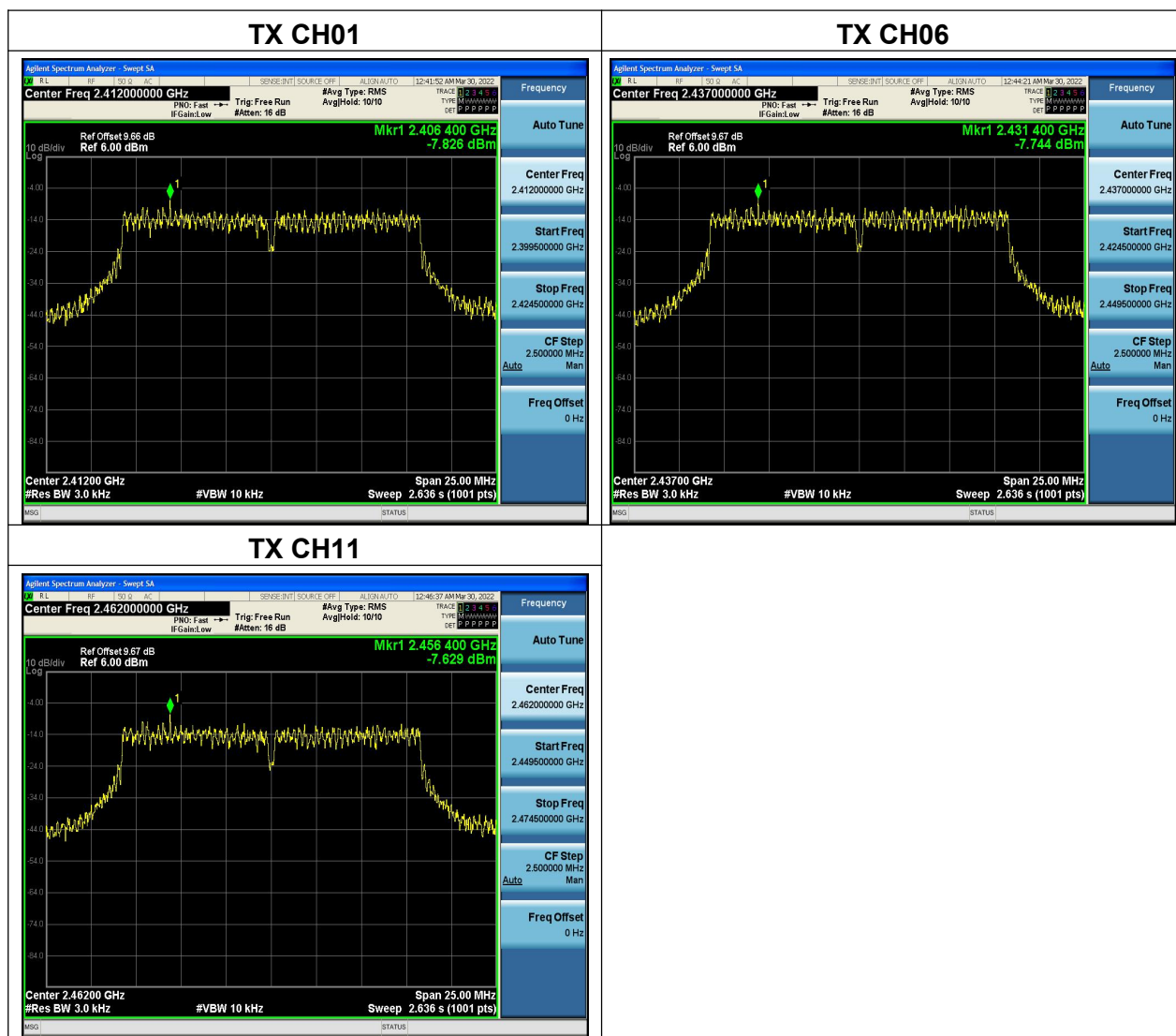
5.3.4 Test results

802.11b			
Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-3.14	8	Pass
2437 MHz	-5.70	8	Pass
2462 MHz	-6.36	8	Pass



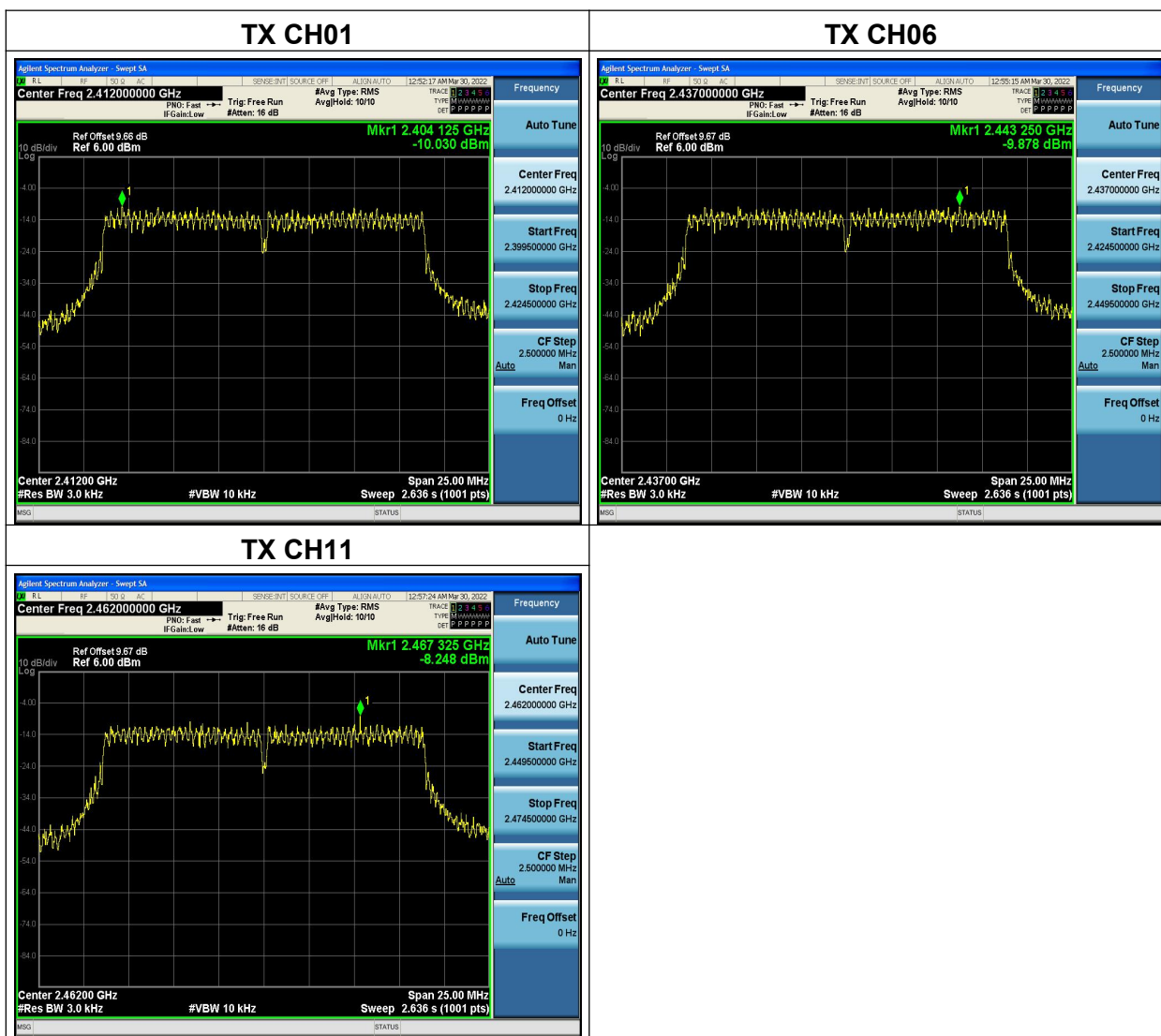


802.11g			
Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-7.83	8	Pass
2437 MHz	-7.74	8	Pass
2462 MHz	-7.63	8	Pass



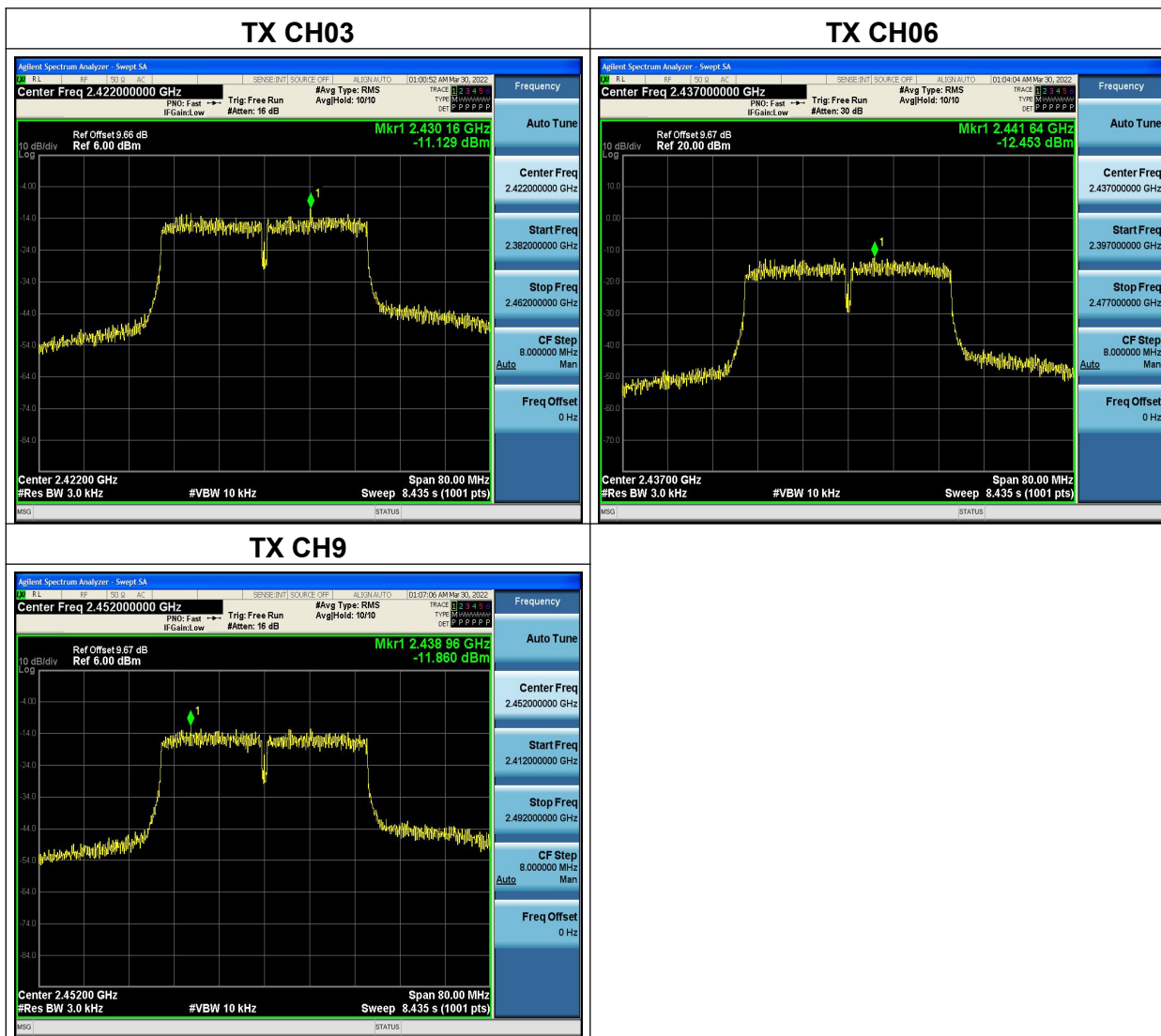


802.11n20			
Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-10.03	8	Pass
2437 MHz	-9.88	8	Pass
2462 MHz	-8.25	8	Pass





802.11n40			
Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422 MHz	-11.13	8	Pass
2437 MHz	-12.45	8	Pass
2452 MHz	-11.86	8	Pass





5.4 Conducted emission

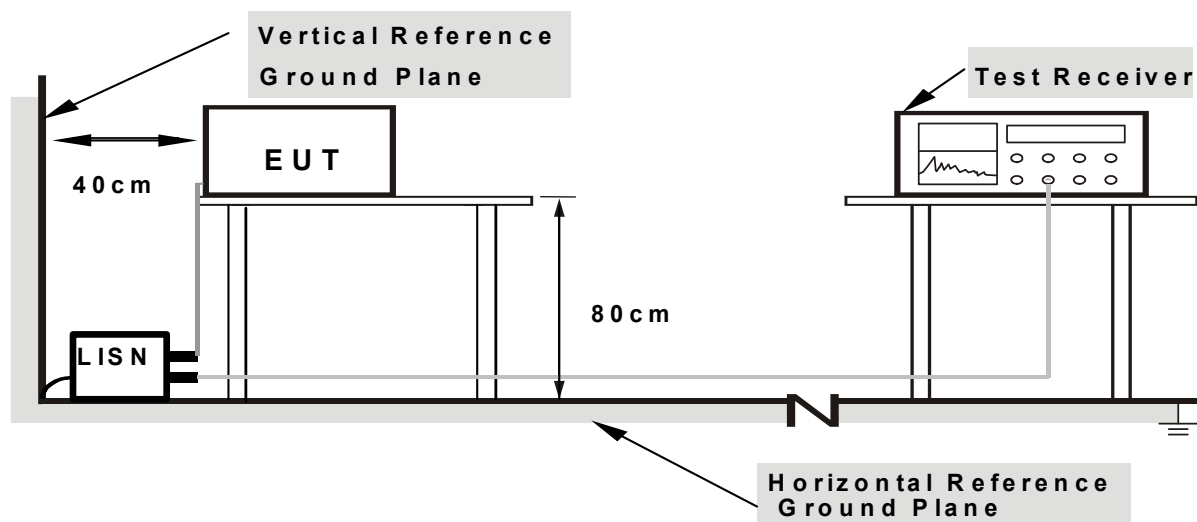
5.4.1 Limits

According to FCC Part 15.207(a) and KDB 174176 D01 Line Conducted FAQ v01r01.

FREQUENCY (MHz)	Class B (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note: *Decreases with the logarithm of the frequency..

5.4.2 Test setup



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

5.4.3 Test procedure

a. EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

b. The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

- c. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- d. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- e. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- f. LISN at least 80 cm from nearest part of EUT chassis.

For the actual test configuration, please refer to the related Item –EUT Test Photos.

5.4.4 Test results

Note: The device is a DC power supply and does not apply to conducted emissions.



5.5 Radiated spurious

5.5.1 Limits

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

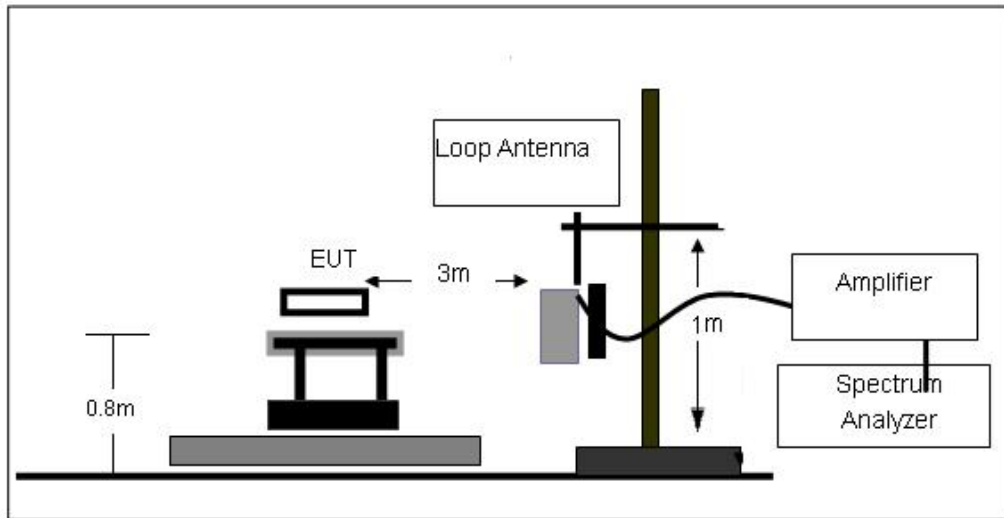
Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

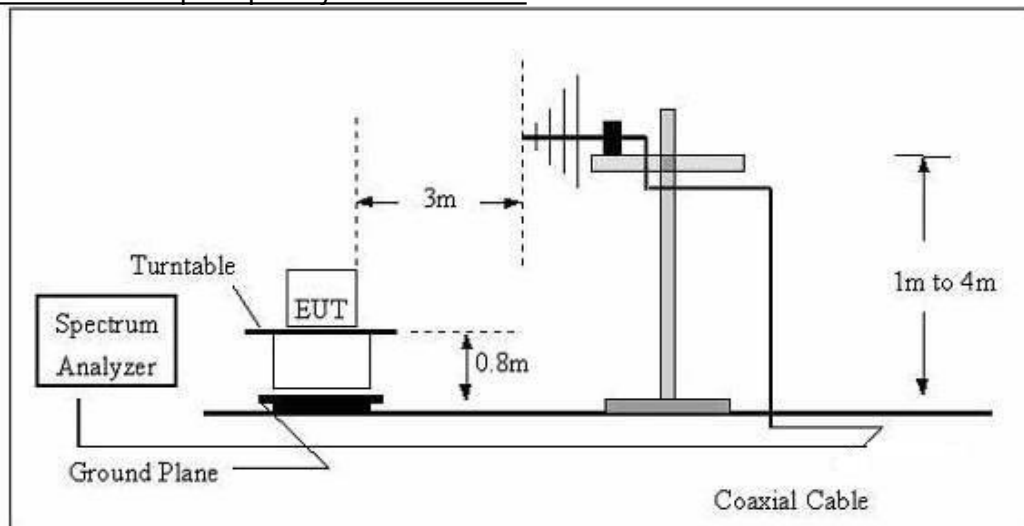


5.5.2 Test setup

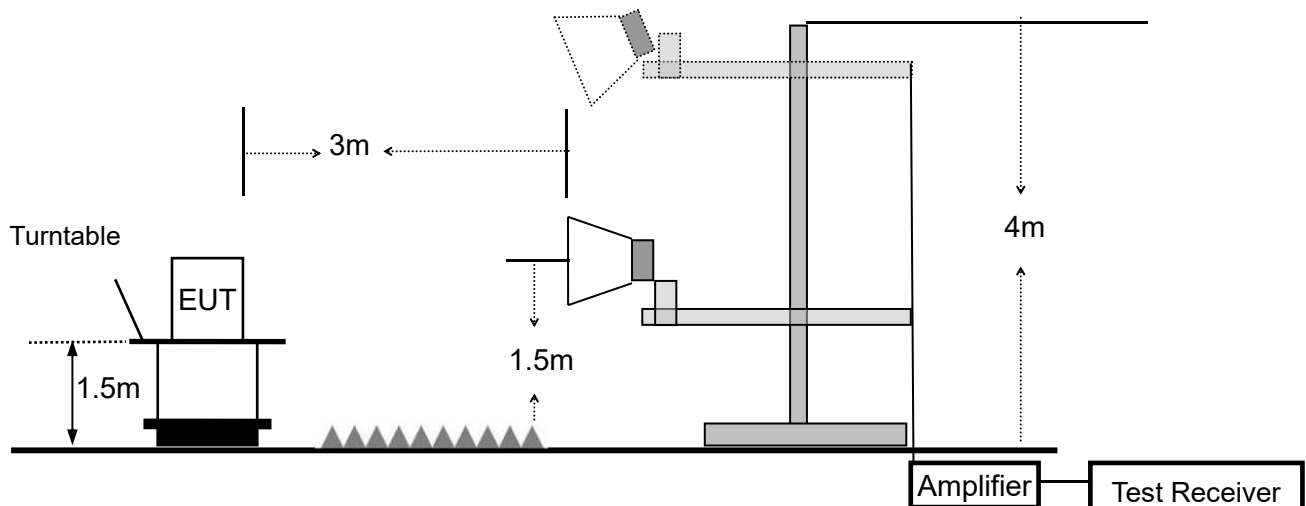
Radiated emission test-up frequency below 30MHz



Radiated emission test-up frequency 30MHz~1GHz



Radiated emission test-up frequency above 1GHz





5.5.3 Test procedure

- a. EUT operating conditions. The EUT tested system was configured as the statements of 2.4 unless otherwise a special operating condition is specified in the follows during the testing.
- b. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- c. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For emission measurements above 1 GHz, the EUT shall be placed at a height of 1.5 m above the floor on a support that is RF transparent for the frequencies of interest. Final measurements for the EUT require a measurement antenna height scan of 1 m to 4 m.
- f. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- h. For the actual test configuration, please refer to the related Item –EUT Test photos.

Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

5.5.4 Test results

5.5.4.1 Radiation emission

Below 30MHz

EUT:	CAR MULTIMEDIA PLAYER WITH RADIO	Model Name:	PLINDVTB7
Pressure:	1010 hPa	Phase:	H
Test Mode:	TX-11B-2412	Test Voltage:	Power by battery

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	Pass
--	--	--	--	Pass

Note:

1. For 9k-30MHz, the amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})(\text{dB})$.
3. Limit line = specific limits (dBuV) + distance extrapolation factor.



Between 30MHz – 1GHz

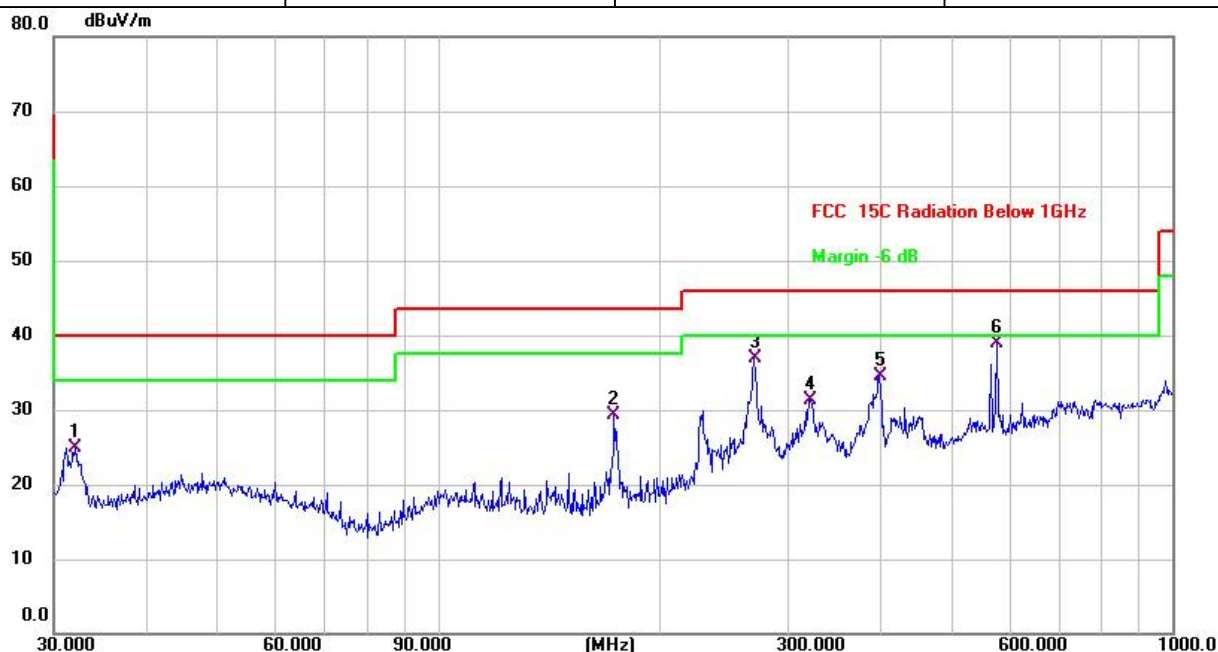
EUT:	CAR MULTIMEDIA PLAYER WITH RADIO	Model Name:	PLINDVTB7
Pressure:	1010 hPa	Phase:	H
Test Mode:	TX-11B-2412	Test Voltage:	Power by battery



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		47.9940	27.37	-5.72	21.65	40.00	-18.35	QP
2		122.4040	30.76	-8.87	21.89	43.50	-21.61	QP
3		239.9874	38.49	-4.72	33.77	46.00	-12.23	QP
4	!	281.9946	43.84	-3.61	40.23	46.00	-5.77	QP
5	*	340.7817	43.96	-2.70	41.26	46.00	-4.74	QP
6		396.2415	41.22	-1.31	39.91	46.00	-6.09	QP



EUT:	CAR MULTIMEDIA PLAYER WITH RADIO	Model Name:	PLINDVTB7
Pressure:	1010 hPa	Phase:	V
Test Mode:	TX-11B-2412	Test Voltage:	Power by battery



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		32.0667	33.81	-8.81	25.00	40.00	-15.00	QP
2		173.8135	37.75	-8.47	29.28	43.50	-14.22	QP
3		269.4284	40.66	-3.67	36.99	46.00	-9.01	QP
4		319.9370	34.30	-3.02	31.28	46.00	-14.72	QP
5		399.0302	35.72	-1.24	34.48	46.00	-11.52	QP
6	*	576.6443	36.60	2.34	38.94	46.00	-7.06	QP

Note:

1. Emission Level = Meter Reading + Factor, Margin= Emission Level- Limit, Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. The three modulated high, medium and low channels have been tested. The report only shows the worst mode. The worst mode is 802.11b CH01.

1GHz-25GHz

Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector	Polarization
(MHz)	(dBμV)	(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	Peak/AVG	H/V
802.11b - 2412 MHz TX mode							
4824.000	41.62	1.57	43.19	74.00	-30.81	Peak	V
4824.000	35.58	1.57	37.15	54.00	-16.85	AVG	V
7236.000	38.74	5.45	44.19	74.00	-29.81	Peak	V
7236.000	32.69	5.45	38.14	54.00	-15.86	AVG	V
9648.000	42.30	6.34	48.64	74.00	-25.36	Peak	V
9648.000	36.03	6.34	42.37	54.00	-11.63	AVG	V
4824.000	39.52	1.57	41.09	74.00	-32.91	Peak	H
4824.000	33.50	1.57	35.07	54.00	-18.93	AVG	H
7236.000	38.68	5.45	44.13	74.00	-29.87	Peak	H
7236.000	32.70	5.45	38.15	54.00	-15.85	AVG	H
9648.000	42.24	6.34	48.58	74.00	-25.42	Peak	H
9648.000	36.19	6.34	42.53	54.00	-11.47	AVG	H
802.11b - 2437 MHz TX mode							
4874.000	47.95	1.67	49.62	74.00	-24.38	Peak	V
4874.000	45.40	1.67	47.07	54.00	-6.93	AVG	V
7311.000	38.26	5.45	43.71	74.00	-30.29	Peak	V
7311.000	35.78	5.45	41.23	54.00	-12.77	AVG	V
9748.000	41.34	6.37	47.71	74.00	-26.29	Peak	V
9748.000	39.30	6.37	45.67	54.00	-8.33	AVG	V
4874.000	44.35	1.67	46.02	74.00	-27.98	Peak	H
4874.000	42.34	1.67	44.01	54.00	-9.99	AVG	H
7311.000	37.96	5.45	43.41	74.00	-30.59	Peak	H
7311.000	35.81	5.45	41.26	54.00	-12.74	AVG	H
9748.000	41.61	6.37	47.98	74.00	-26.02	Peak	H
9748.000	39.22	6.37	45.59	54.00	-8.41	AVG	H



802.11b - 2462 MHz TX mode							
4824.000	39.66	1.57	41.23	74.00	-32.77	Peak	V
4824.000	37.57	1.57	39.14	54.00	-14.86	AVG	V
7386.000	40.24	5.44	45.68	74.00	-28.32	Peak	V
7386.000	38.10	5.44	43.54	54.00	-10.46	AVG	V
9848.000	41.06	6.39	47.45	74.00	-26.55	Peak	V
9848.000	36.95	6.39	43.34	54.00	-10.66	AVG	V
4924.000	47.82	1.77	49.59	74.00	-24.41	Peak	H
4924.000	45.51	1.77	47.28	54.00	-6.72	AVG	H
7386.000	40.42	5.44	45.86	74.00	-28.14	Peak	H
7386.000	38.08	5.44	43.52	54.00	-10.48	AVG	H
9848.000	40.99	6.39	47.38	74.00	-26.62	Peak	H
9848.000	38.82	6.39	45.21	54.00	-8.79	AVG	H

Note:

1. Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor
2. All other emissions more than 20dB below the limit.
3. The three modulated high, medium and low channels have been tested. The report only shows the worst mode. The worst mode is 802.11b.

5.5.4.2 Band edge - radiated

Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector	Polarization
(MHz)	(dBμV)	(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	Peak/AVG	H/V
802.11b – Low band-edge							
(MHz)	(dBμV)	(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	Peak/AVG	H/V
2310.000	41.67	-6.60	35.07	74.00	-38.93	Peak	V
2310.000	31.68	-6.60	25.08	54.00	-28.92	AVG	V
2390.000	40.70	-6.23	34.47	74.00	-39.53	Peak	V
2390.000	32.35	-6.23	26.12	54.00	-27.88	AVG	V
2310.000	41.65	-6.60	35.05	74.00	-38.95	Peak	H
2310.000	32.99	-6.60	26.39	54.00	-27.61	AVG	H
2390.000	41.69	-6.23	35.46	74.00	-38.54	Peak	H
2390.000	32.69	-6.23	26.46	54.00	-27.54	AVG	H
802.11b – High band-edge							
2483.500	48.70	-5.79	42.91	74.00	-31.09	Peak	V
2483.500	38.22	-5.79	32.43	54.00	-21.57	AVG	V
2500.000	48.22	-5.72	42.50	74.00	-31.50	Peak	V
2500.000	38.21	-5.72	32.49	54.00	-21.51	AVG	V
2483.500	47.98	-5.79	42.19	74.00	-31.81	Peak	H
2483.500	38.12	-5.79	32.33	54.00	-21.67	AVG	H
2500.000	47.76	-5.72	42.04	74.00	-31.96	Peak	H
2500.000	38.28	-5.72	32.56	54.00	-21.44	AVG	H

Note:

1. All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).
2. Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor.
3. All the modulation modes have been tested, and only the worst results are reflected in the report.