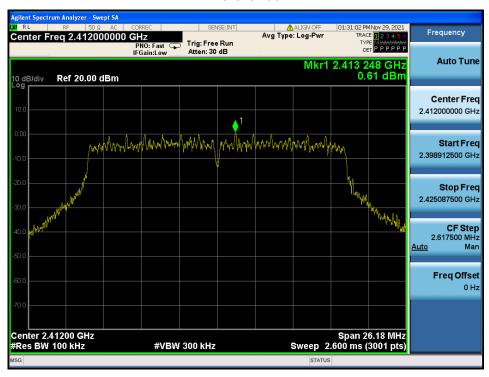
IC: 23402-BV7

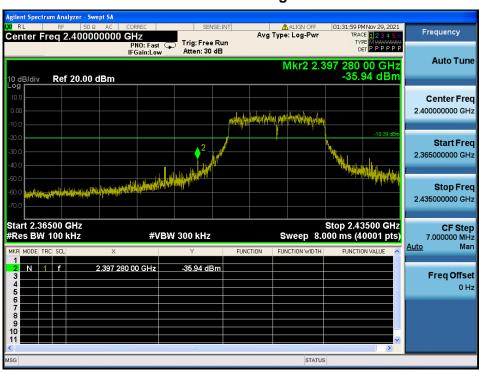


TM 3 & 2412

Reference



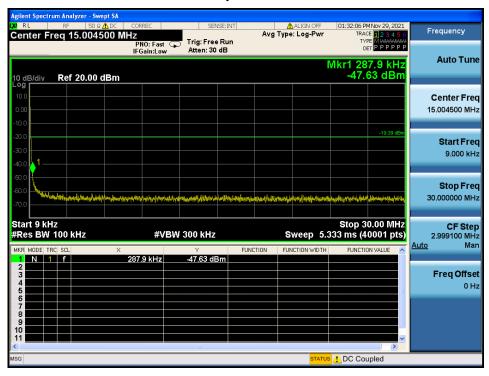
Low Band-edge

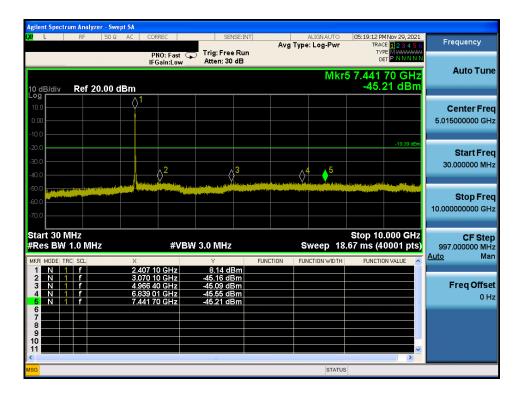


TRF-RF-232(04)210316

Pages: 97 / 153

Conducted Spurious Emissions





TRF-RF-232(04)210316

IC: 23402-BV7



Conducted Spurious Emissions



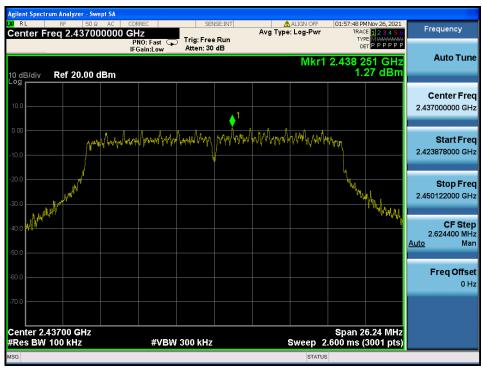
TRF-RF-232(04)210316 Pages: 99 / 153

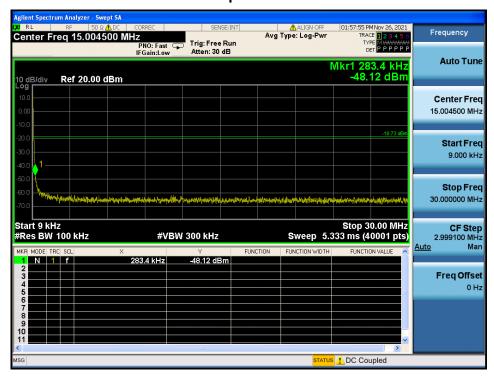
FCC ID: YCK-BV7



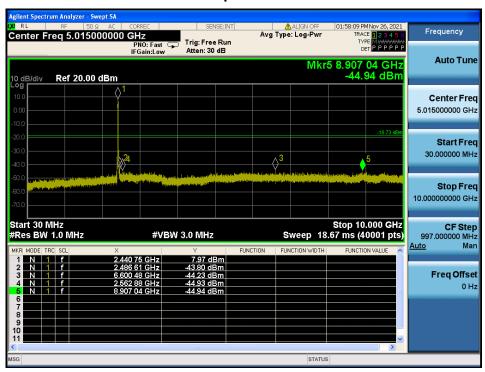
TM 3 & 2437

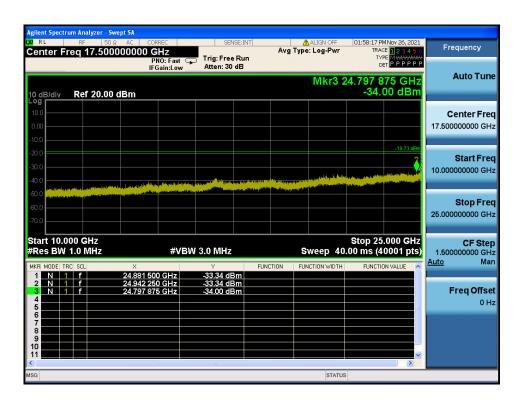
Reference







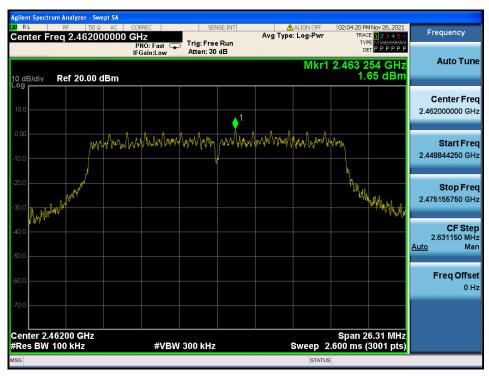




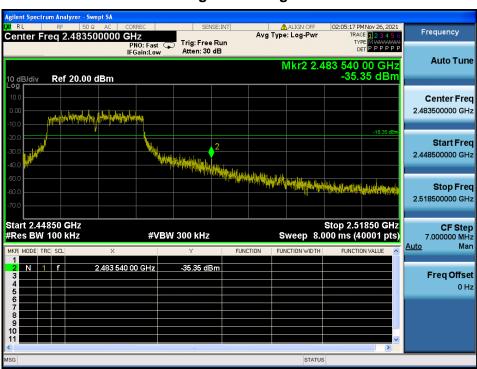


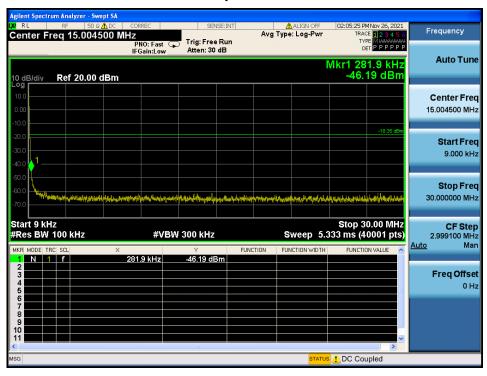
TM 3 & 2462

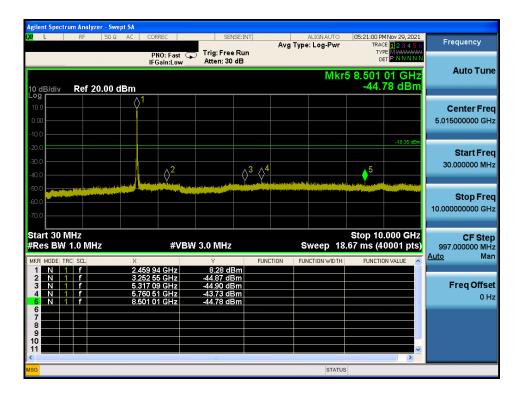
Reference



High Band-edge



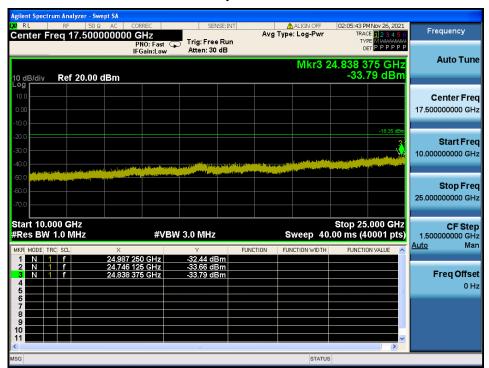




FCC ID: YCK-BV7



Report No.: DRTFCC2203-0059

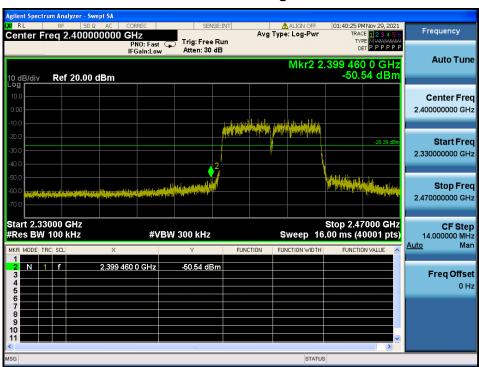


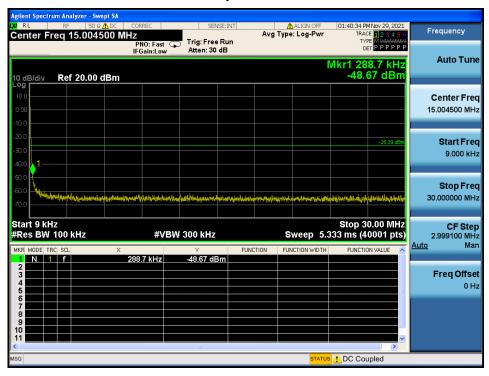
TM 4 & 2422

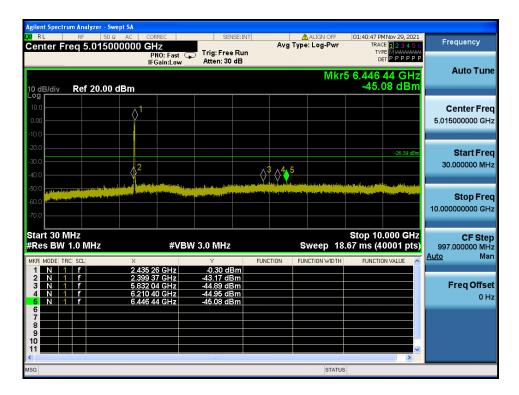
Reference



Low Band-edge







Conducted Spurious Emissions

Report No.: DRTFCC2203-0059



TRF-RF-232(04)210316

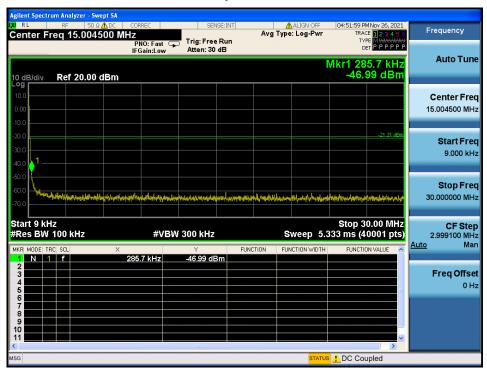
Pages: 107 / 153

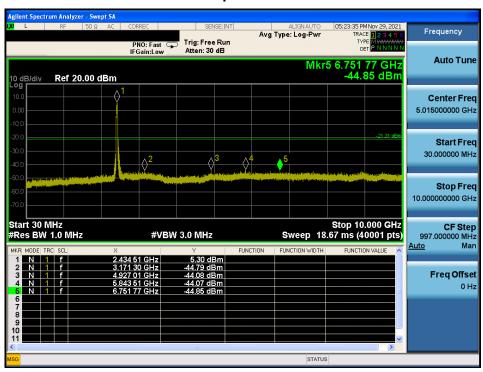
TM 4 & 2437

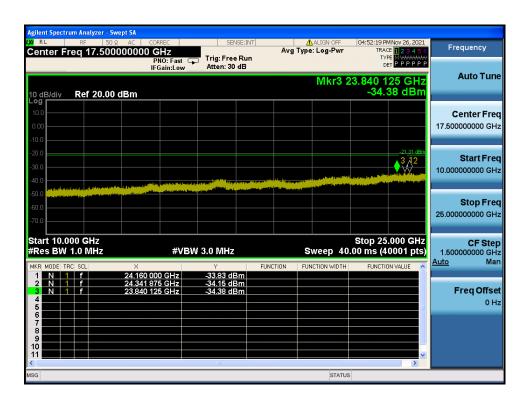
Reference

Report No.: DRTFCC2203-0059



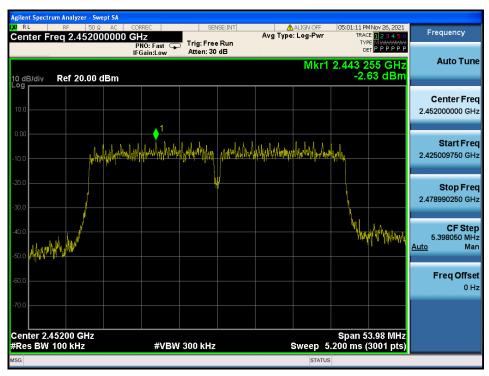




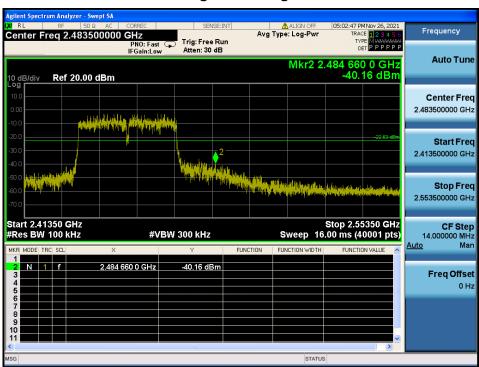


TM 4 & 2452

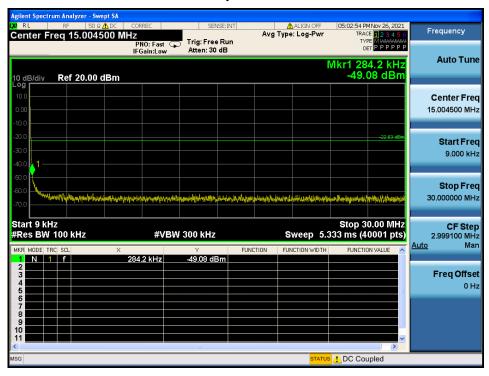
Reference

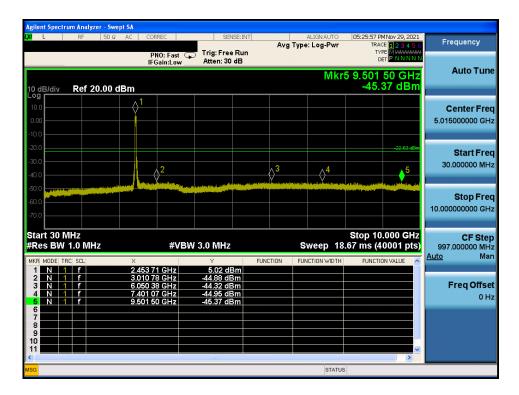


High Band-edge











FCC ID: YCK-BV7

Report No.: DRTFCC2203-0059 IC: 23402-BV7



FCC ID: YCK-BV7

IC: 23402-BV7

5.5. Unwanted Emissions (Radiated)

■ Test Requirements and limit,

Part 15.247(d), Part 15.205, Part 15.209 & RSS-247 [5.5], RSS-Gen [8.9], RSS-Gen [8.10]

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of Part 15.247 the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

- Part 15.209 & RSS-Gen[8.9]: General requirement

Frequency (MHz)	FCC Limit (uV/m)	IC Limit (μA/m)	Measurement Distance (m)
0.009 - 0.490	2 400 / F (kHz)	6.37/F (F in kHz)	300
0.490 - 1.705	2 4000 / F (kHz)	63.7/F (F in kHz)	30
1.705 – 30.0	30	0.08	30

Frequency (MHz)	FCC Limit (uV/m)	IC Limit (uV/m)	Measurement Distance (m)
30 ~ 88	100 **	100	3
88 ~ 216	150 **	150	3
216 ~ 960	200 **	200	3
Above 960	500	500	3

^{**}Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

TRF-RF-232(04)210316 Pages: 113 / 153



Report No.: DRTFCC2203-0059 IC: 23402-BV7

FCC ID: YCK-BV7

- Part 15.205(a): Restricted band of operation

MHz	MHz	MHz	MHz	GHz	GHz
0.009 ~ 0.110	8.414 25 ~ 8.414 75	108 ~ 121.94	1 300 ~ 1 427	4.5 ~ 5.15	14.47 ~ 14.5
0.495 ~ 0.505	12.29 ~ 12.293	123 ~ 138	1 435 ~ 1 626.5	5.35 ~ 5.46	15.35 ~ 16.2
2.173 5 ~ 2.190 5	12.519 75 ~ 12.520 25	149.9 ~ 150.05	1 645.5 ~ 1 646.5	7.25 ~ 7.75	17.7 ~ 21.4
4.125 ~ 4.128	12.576 75 ~ 12.577 25	156.524 75 ~ 156.525 25	1 660 ~ 1 710	8.025 ~ 8.5	22.01 ~ 23.12
4.177 25 ~ 4.177 75	13.36 ~ 13.41	156.7 ~ 156.9	1 718.8 ~ 1 722.2	9.0 ~ 9.2	23.6 ~ 24.0
4.207 25 ~ 4.207 75	16.42 ~ 16.423	162.012 5 ~ 167.17	2 200 ~ 2 300	9.3 ~ 9.5	31.2 ~ 31.8
6.215 ~ 6.218	16.694 75 ~ 16.695 25	167.72 ~ 173.2	2 310 ~ 2 390	10.6 ~ 12.7	36.43 ~ 36.5
6.267 75 ~ 6.268 25	16.804 25 ~ 16.804 75	240 ~ 285	2 483.5 ~ 2 500	13.25 ~ 13.4	Above 38.6
6.311 75 ~ 6.312 25	25.5 ~ 25.67	322 ~ 335.4	2 655 ~ 2 900		
8.291 ~ 8.294	37.5 ~ 38.25	399.90 ~ 410	3 260 ~ 3 267		
8.362 ~ 8.366	73 ~ 74.6	608 ~ 614	3 332 ~ 3 339		
8.376 25 ~ 8.386 75	74.8 ~ 75.2	960 ~ 1 240	3 345.8 ~ 3 358		
			3 600 ~ 4 400		

- RSS-Gen[8.10]: Restricted frequency bands

The Conferred :	tooti iotoa ir oquonoy			1	
MHz	MHz	MHz	MHz	MHz	GHz
0.090 ~ 0.110	8.362 ~ 8.366	73 ~ 74.6	608 ~ 614	3 345.8 ~ 3 358	9.0 ~ 9.2
0.495 ~ 0.505	8.376 25 ~ 8.386 75	74.8 ~ 75.2	960 ~ 1 427	3 500 ~ 4 400	9.3 ~ 9.5
2.173 5 ~ 2.190 5	8.414 25 ~ 8.414 75	108 ~ 138	1 435 ~ 1 626.5	4 500 ~ 5 150	10.6 ~ 12.7
3.020 ~ 3.026	12.29 ~ 12.293	149.9 ~ 150.05	1 645.5 ~ 1 646.5	5 350 ~ 5 460	13.25 ~ 13.4
4.125 ~ 4.128	12.519 75 ~ 12.520 25	156.524 75 ~	1 660 ~ 1 710	7 250 ~ 7 750	14.47 ~ 14.5
4.177 25 ~ 4.177 75	12.576 75 ~ 12.577 25	156.525 25	1 718.8 ~ 1 722.2	8 025 ~ 8 500	15.35 ~ 16.2
4.207 25 ~ 4.207 75	13.36 ~ 13.41	156.7 ~ 156.9	2 200 ~ 2 300		17.7 ~ 21.4
5.677 ~ 5.683	16.42 ~ 16.423	162.01 25 ~ 167.17	2 310 ~ 2 390		22.01 ~ 23.12
6.215 ~ 6.218	16.694 75 ~ 16.695 25	167.72 ~ 173.2	2 483.5 ~ 2 500		23.6 ~ 24.0
6.267 75 ~ 6.268 25	16.804 25 ~ 16.804 75	240 ~ 285	2 655 ~ 2 900		31.2 ~ 31.8
6.311 75 ~ 6.312 25	25.5 ~ 25.67	322 ~ 335.4	3 260 ~ 3 267		36.43 ~ 36.5
8.291 ~ 8.294	37.5 ~ 38.25	399.90 ~ 410	3 332 ~ 3 339		Above 38.6

Report No.: **DRTFCC2203-0059** IC: **23402-BV7**

FCC ID: YCK-BV7

5.5.1. Test Setup

Refer to the APPENDIX I.

5.5.2. Test Procedures

- 1. The EUT is placed on a non-conductive table. For emission measurements at or below 1 GHz, the table height is 80 cm. For emission measurements above 1 GHz, the table height is 1.5 m.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.

Note: Measurement Instrument Setting for Radiated Emission Measurements.

- KDB558074 D01v05r02 Section 8.6
- ANSI C63.10-2013 Section 11.12
- 1. Frequency Range Below 1 GHz

RBW = 100 or 120 kHz, VBW = 3 x RBW, Detector = Peak or Quasi Peak

2. Frequency Range > 1 GHz

Peak Measurement > 1 GHz

RBW = 1 MHz, VBW = 3 MHz, Detector = Peak, Sweep time = Auto, Trace mode = Max Hold until the trace stabilizes Average Measurement > 1 GHz

- 1. RBW = 1 MHz (unless otherwise specified).
- 2. VBW ≥ 1/T
- 3. Detector = Peak
- 4. Trace mode = max hold
- 5. Averaging type = voltage
- 6. Sweep time = auto.
- 7. Allow max hold to run for at least [50 x (1/D) traces.

Duty Cycle

<u> </u>					
Test Mode	Date rate	T _{on} (ms)	T _{on+off} (ms)	$D = T_{on} / (T_{on+off})$	1/T (kHz)
TM 1	11 Mbps	0.947	1.162	0.814 8	1.06
TM 2	54 Mbps	0.176	1.006	0.175 0	5.68
TM 3	MCS 7	0.164	1.104	0.148 6	6.10
TM 4	MCS 7	0.100	0.832	0.120 2	10.00

Note1: Where, T= Transmission duration / D= Duty cycle

Note2: The duty cycle is not constant. Please refer to the appendix II for duty cycle plots.

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TRF-RF-232(04)210316

Pages: 115 / 153



Report No.: DRTFCC2203-0059 IC: 23402-BV7

FCC ID: YCK-BV7

5.5.3. Test Results

Test Notes

- 1. The radiated emissions were investigated 9 kHz to 1 GHz and the worst case data was reported.
- 2. Information of Distance Correction Factor

For finding emissions, measurements may be performed at a distance closer than that specified in the regulations.

In this case, the distance factor is applied to the result.

- Calculation of distance correction factor

At frequencies below 30 MHz = 40 log(tested distance / specified distance)

At frequencies at or above 30 MHz = 20 log(tested distance / specified distance)

When distance factor is "N/A", the measurements were performed at the specified distance and distance factor is not applied.

3. Sample Calculation.

Where, TF = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, HL = High pass filter Loss, AL = Attenuator Loss, DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor

- Power Supply: 12 V

Radiated Emissions data(9 kHz ~ 1 GHz) : TM 1

Tested Frequency (MHz)	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	TF (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin(dB)
	96.93	V	Х	PK	45.2	-12.2	N/A	N/A	33.0	43.5	10.5
	212.36	Н	Х	PK	44.7	-10.8	N/A	N/A	33.9	43.5	9.6
2 437	241.51	Н	Х	PK	52.4	-9.5	N/A	N/A	42.9	46.0	3.1
	511.12	V	Х	PK	35.1	-3.9	N/A	N/A	31.2	46.0	14.8
	711.91	Н	X	PK	33.6	-0.6	N/A	N/A	33.0	46.0	13.0

TRF-RF-232(04)210316 Pages: 116 / 153 Report No.: DRTFCC2203-0059 IC: 23402-BV7

FCC ID: YCK-BV7

Test Notes

- 1. The radiated emissions were investigated up to 25 GHz. And no other spurious and harmonic emissions were found below listed frequencies.
- 2. Information of Distance Correction Factor

For finding emissions, measurements may be performed at a distance closer than that specified in the regulations.

In this case, the distance factor is applied to the result.

- Calculation of distance correction factor

At frequencies below 30 MHz = $40 \log(\text{ tested distance} / \text{ specified distance})$

At frequencies at or above 30 MHz = 20 log(tested distance / specified distance)

When distance factor is "N/A", the measurements were performed at the specified distance and distance factor is not applied.

3. Sample Calculation.

 $\dot{\text{Margin}} = \text{Limit} - \text{Result}$ / Result = Reading + TF+ DCCF + DCF / TF = AF + CL + HL + AL - AG

Where, TF = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, HL = High pass filter Loss, AL = Attenuator Loss,

DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor

- Power Supply: 24 V

Radiated Emissions data(1 GHz ~ 25 GHz): TM 1

Tested Frequency (MHz)	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	TF (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin(dB)
	2 388.91	V	Х	PK	50.17	4.44	N/A	N/A	54.61	74.00	19.39
	2 390.00	V	Х	AV	41.23	4.44	N/A	N/A	45.67	54.00	8.33
0.440	4 824.04	Н	Z	PK	42.64	8.70	N/A	N/A	51.34	74.00	22.66
2 412	4 823.94	Н	Z	AV	32.43	8.70	N/A	N/A	41.13	54.00	12.87
	7 235.81	V	Z	PK	45.01	11.80	N/A	N/A	56.81	74.00	17.19
	7 235.12	V	Z	AV	36.25	11.80	N/A	N/A	48.05	54.00	5.95
	4 873.91	Н	Z	PK	41.60	8.82	N/A	N/A	50.42	74.00	23.58
2 437	4 873.83	Н	Z	AV	35.39	8.82	N/A	N/A	44.21	54.00	9.79
2 431	7 311.09	V	Z	PK	44.98	11.91	N/A	N/A	56.89	74.00	17.11
	7 310.11	V	Z	AV	36.32	11.91	N/A	N/A	48.23	54.00	5.77
	2 485.19	V	Х	PK	50.40	4.78	N/A	N/A	55.18	74.00	18.82
	2 484.00	V	Х	AV	41.16	4.78	N/A	N/A	45.94	54.00	8.06
0.460	4 923.75	Н	Z	PK	42.23	8.74	N/A	N/A	50.97	74.00	23.03
2 462	4 923.89	Н	Z	AV	32.05	8.74	N/A	N/A	40.79	54.00	13.21
	7 386.69	V	Z	PK	42.08	11.92	N/A	N/A	54.00	74.00	20.00
	7 387.15	V	Z	AV	32.56	11.92	N/A	N/A	44.48	54.00	9.52

TRF-RF-232(04)210316 Pages: 117 / 153

IC: **23402-BV7**

FCC ID: YCK-BV7



Radiated Emissions data(1 GHz ~ 25 GHz) : TM 2

Tested Frequency (MHz)	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	TF (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin(dB)
	2 390.00	V	Х	PK	57.37	4.44	N/A	N/A	61.81	74.00	12.19
2 412	2 389.85	V	Х	AV	46.50	4.44	N/A	N/A	50.94	54.00	3.06
2412	4 824.08	Н	Z	PK	42.76	8.70	N/A	N/A	51.46	74.00	22.54
	4 823.98	Н	Z	AV	33.94	8.70	N/A	N/A	42.64	54.00	11.36
2.427	4 873.52	Н	Z	PK	42.42	8.82	N/A	N/A	51.24	74.00	22.76
2 437	4 873.84	Н	Z	AV	33.61	8.82	N/A	N/A	42.43	54.00	11.57
	2 486.68	V	Х	PK	62.80	4.78	N/A	N/A	67.58	74.00	6.42
2 462	2 485.12	V	Х	AV	45.30	4.78	N/A	N/A	50.08	54.00	3.92
2 402	4 924.48	Н	Z	PK	41.20	8.74	N/A	N/A	49.94	74.00	24.06
	4 923.72	Н	Z	AV	31.80	8.74	N/A	N/A	40.54	54.00	13.46

Radiated Emissions data(1 GHz ~ 25 GHz) : TM 3

Tested Frequency (MHz)	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	TF (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin(dB)
	2 389.44	V	Х	PK	57.65	4.44	N/A	N/A	62.09	74.00	11.91
2 412	2 389.52	V	Х	AV	45.82	4.44	N/A	N/A	50.26	54.00	3.74
2412	4 823.54	Н	Z	PK	42.92	8.70	N/A	N/A	51.62	74.00	22.38
	4 823.88	Н	Z	AV	32.92	8.70	N/A	N/A	41.62	54.00	12.38
2 437	4 873.91	Н	Z	PK	41.80	8.82	N/A	N/A	50.62	74.00	23.38
2 437	4 873.62	Н	Z	AV	32.57	8.82	N/A	N/A	41.39	54.00	12.61
	2 484.16	V	Х	PK	63.57	4.78	N/A	N/A	68.35	74.00	5.65
2.462	2 484.07	V	Х	AV	45.63	4.78	N/A	N/A	50.41	54.00	3.59
2 462	4 924.18	Н	Z	PK	42.33	8.74	N/A	N/A	51.07	74.00	22.93
	4 923.82	Н	Z	AV	32.21	8.74	N/A	N/A	40.95	54.00	13.05

TRF-RF-232(04)210316

Pages: 118 / 153



FCC ID: **YCK-BV7**IC: **23402-BV7**

Radiated Emissions data(1 GHz ~ 25 GHz) : TM 4

Tested Frequency (MHz)	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	TF (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin(dB)
	2 389.52	V	Х	PK	55.18	4.44	N/A	N/A	59.62	74.00	14.38
2 422	2 389.82	V	Х	AV	45.83	4.44	N/A	N/A	50.27	54.00	3.73
2 422	4 843.18	Н	Z	PK	41.44	8.71	N/A	N/A	50.15	74.00	23.85
	4 844.31	Н	Z	AV	31.99	8.71	N/A	N/A	40.70	54.00	13.30
2 437	4 874.00	Н	Z	PK	41.86	8.82	N/A	N/A	50.68	74.00	23.32
2 437	4 873.94	Н	Z	AV	31.82	8.82	N/A	N/A	40.64	54.00	13.36
	2 484.28	V	Х	PK	54.81	4.78	N/A	N/A	59.59	74.00	14.41
2 452	2 484.89	V	Х	AV	45.65	4.78	N/A	N/A	50.43	54.00	3.57
2 452	4 903.49	Н	Z	PK	42.69	8.73	N/A	N/A	51.42	74.00	22.58
	4 903.76	Н	Z	AV	31.82	8.73	N/A	N/A	40.55	54.00	13.45

- Power Supply: 12 V

Worst case data: TM 2

Tested Frequency (MHz)	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	TF (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin(dB)
2 412	2 389.86	V	Х	PK	59.53	4.44	N/A	N/A	63.97	74.00	10.03
2412	2 389.90	V	Х	AV	46.14	4.44	N/A	N/A	50.58	54.00	3.42

TRF-RF-232(04)210316

Pages: 119 / 153

FCC ID: YCK-BV7

IC: 23402-BV7

5.6. AC Power-Line Conducted Emissions

■ Test Requirements and limit, §15.207 & RSS-Gen [8.8]

For an intentional radiator which 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 limits in the following table, as measured using a 50 uH/50 ohm line impedance stabilization network (LISN).

Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequency ranges.

Frequency Range	Conducted I	Limit (dBuV)
(MHz)	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

Conducted emissions from the EUT were measured according to the ANSI C63.10-2013.

- 1. The test procedure is performed in a 6.5 m × 3.5 m × 3.5 m (L × W × H) shielded room. The EUT along with its peripherals were placed on a 1.0 m (W) × 1.5 m (L) and 0.8 m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.
- 2. The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room.
- 3. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.
- 4. The excess power cable between the EUT and the LISN was bundled. The power cables of peripherals were unbundled. All connecting cables of EUT and peripherals were moved to find the maximum emission.

■ Test Results

N/A

Result plots

N/A

TRF-RF-232(04)210316 Pages: 120 / 153

FCC ID: YCK-BV7

IC: 23402-BV7

5.7. Occupied Bandwidth

■ Test Requirements, RSS-Gen [6.7]

When an occupied bandwidth value is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99 % emission bandwidth, as calculated or measured.

5.7.1. Test Setup

Refer to the APPENDIX I.

5.7.2. Test Procedures

The 99 % power bandwidth was measured with a calibrated spectrum analyzer.

The resolution bandwidth (RBW) shall be in the range of 1 % to 5 % of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3 x RBW.

5.7.3. Test Results

Test Mode	Frequency	Test Results (MHz)	
		24 V	12 V
TM 1	2 412	14.55	14.55
	2 437	14.59	14.55
	2 462	14.73	14.67
TM 2	2 412	16.86	16.91
	2 437	16.86	16.96
	2 462	16.96	16.92
TM 3	2 412	17.91	17.93
	2 437	17.90	17.94
	2 462	18.02	18.01
TM 4	2 422	36.08	36.09
	2 437	36.08	36.08
	2 452	36.08	36.11



RESULT PLOTS

- Power Supply: 24 V

Occupied Bandwidth

TM 1 & 2412



Occupied Bandwidth

TM 1 & 2437

Pages: 122 / 153



TRF-RF-232(04)210316



Occupied Bandwidth

TM 1 & 2462



TRF-RF-232(04)210316 Pages: 123 / 153

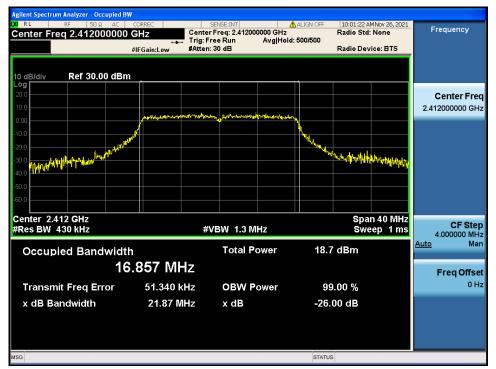


IC: 23402-BV7



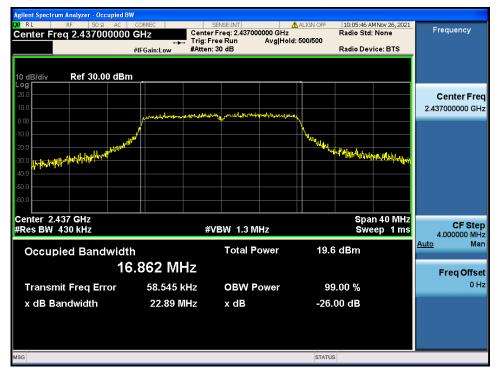
Occupied Bandwidth

TM 2 & 2412



Occupied Bandwidth

TM 2 & 2437



TRF-RF-232(04)210316

Pages: 124 / 153



Report No.: **DRTFCC2203-0059** IC: **23402-BV7**

Occupied Bandwidth

TM 2 & 2462

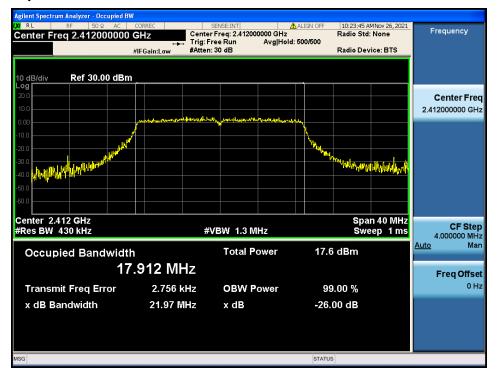


TRF-RF-232(04)210316 Pages: 125 / 153



Occupied Bandwidth

TM 3 & 2412



Occupied Bandwidth

TM 3 & 2437



Occupied Bandwidth

TM 3 & 2462

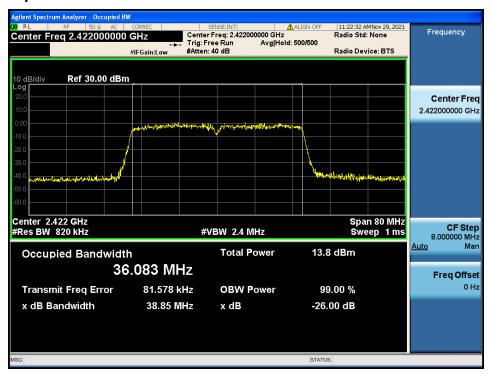


TRF-RF-232(04)210316 Pages: 127 / 153



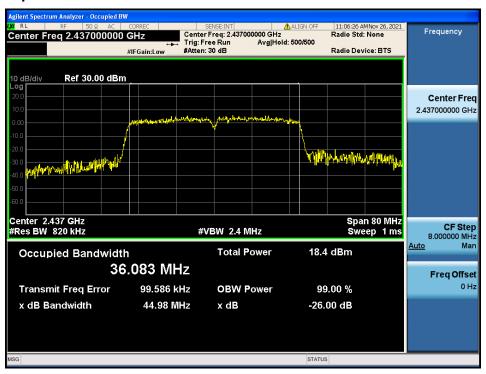
Occupied Bandwidth

TM 4 & 2422



Occupied Bandwidth

TM 4 & 2437



TRF-RF-232(04)210316

Pages: 128 / 153

IC: 23402-BV7



Occupied Bandwidth

TM 4 & 2452



TRF-RF-232(04)210316 Pages: 129 / 153



IC: 23402-BV7



Report No.: DRTFCC2203-0059

- Power Supply: 12 V

Occupied Bandwidth

TM 1 & 2412



Occupied Bandwidth

TM 1 & 2437





Occupied Bandwidth

TM 1 & 2462



TRF-RF-232(04)210316 Pages: 131 / 153



IC: 23402-BV7



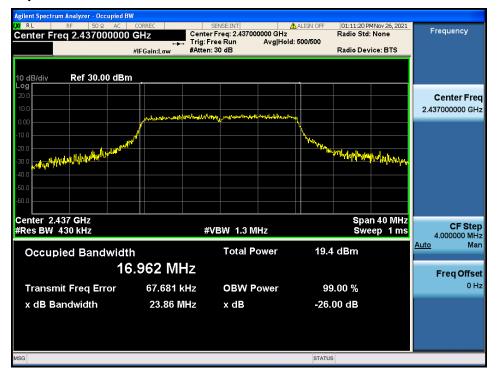
Occupied Bandwidth

TM 2 & 2412



Occupied Bandwidth

TM 2 & 2437



TRF-RF-232(04)210316 Pages: 132 / 153

Pages: 133 / 153



Occupied Bandwidth

TM 2 & 2462

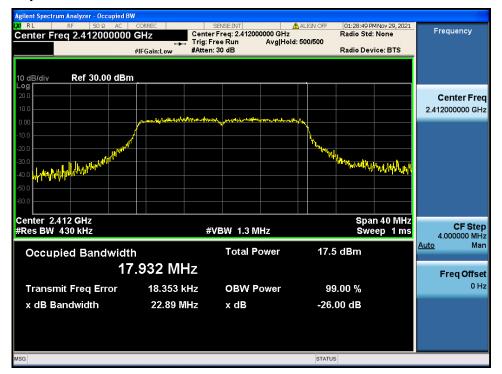


TRF-RF-232(04)210316

Report No.: DRTFCC2203-0059

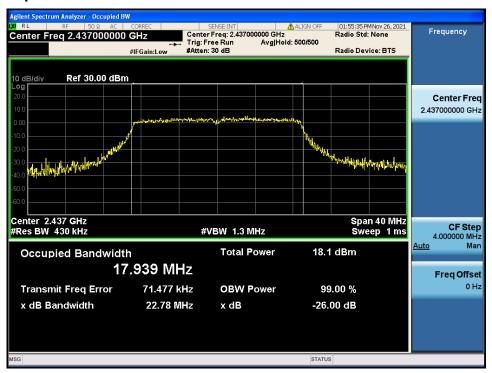
Occupied Bandwidth

TM 3 & 2412



Occupied Bandwidth

TM 3 & 2437



TRF-RF-232(04)210316



Report No.: DRTFCC2203-0059 IC: 23402-BV7

Occupied Bandwidth

TM 3 & 2462



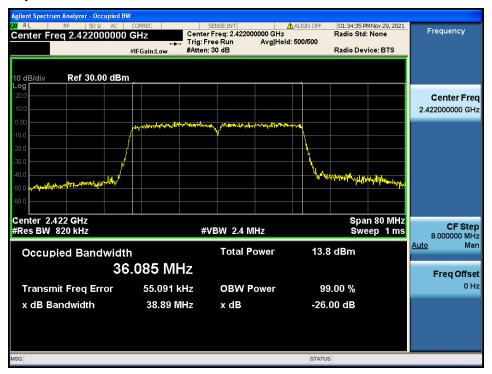
TRF-RF-232(04)210316

Pages: 135 / 153

Report No.: DRTFCC2203-0059

Occupied Bandwidth

TM 4 & 2422



Occupied Bandwidth

TM 4 & 2437



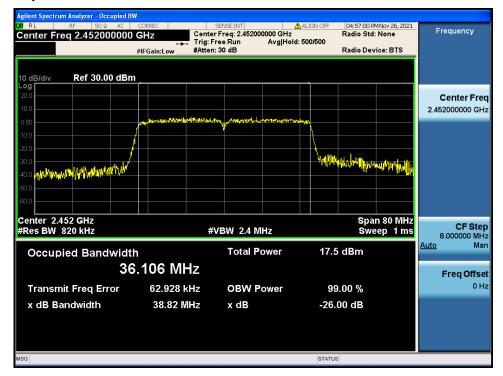
Pages: 137 / 153

IC: 23402-BV7



Occupied Bandwidth

TM 4 & 2452



TRF-RF-232(04)210316

FCC ID: YCK-BV7

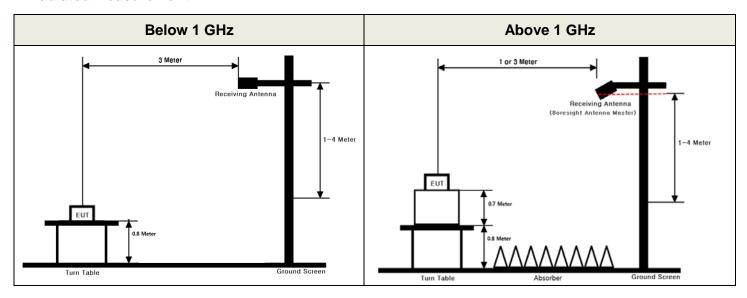
IC: **23402-BV7**



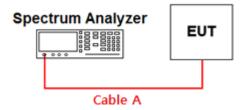
APPENDIX I

Test set up diagrams

Radiated Measurement



Conducted Measurement



TRF-RF-232(04)210316 Pages: 138 / 153

Report No.: DRTFCC2203-0059

FCC ID: YCK-BV7

IC: 23402-BV7

APPENDIX II

Duty cycle plots

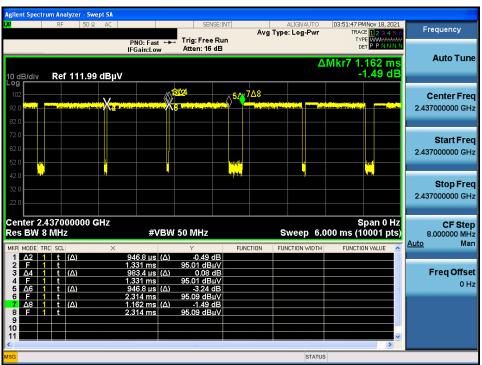
Test Procedures

- KDB558074 D01v05r02 - Section 6

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value. Set VBW ≥ RBW. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are > 50 /T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zerospan method of measuring duty cycle shall not be used if T ≤ 16.7 microseconds.)

Duty Cycle TM 1 & 2 437 MHz

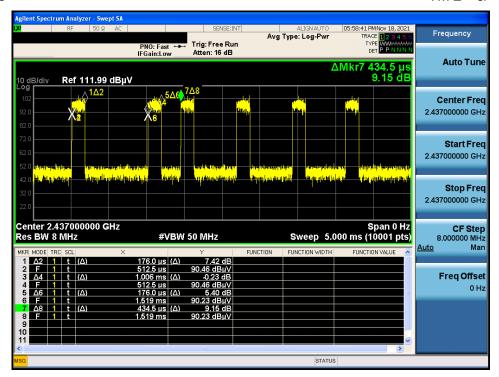


TRF-RF-232(04)210316 Pages: 139 / 153



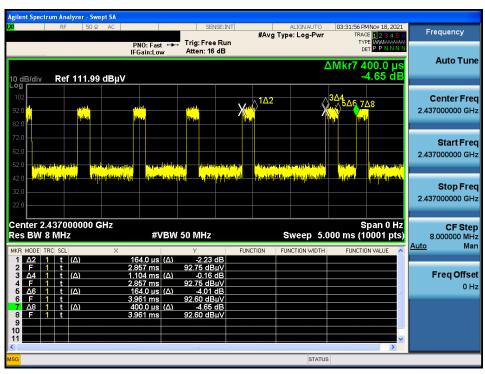
Duty Cycle

TM 2 & 2437 MHz



Duty Cycle

TM 3 & 2 437 MHz



TRF-RF-232(04)210316

Pages: 140 / 153

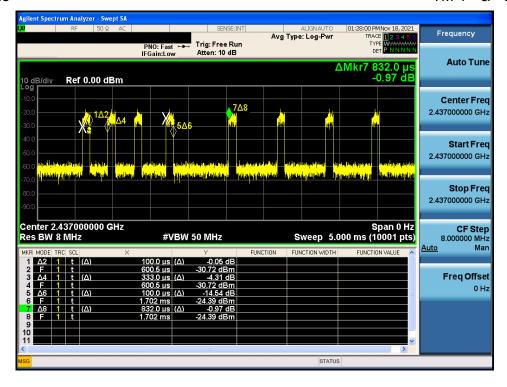
IC: 23402-BV7

FCC ID: YCK-BV7



Duty Cycle

TM 4 & 2437 MHz



TRF-RF-232(04)210316

Pages: 141 / 153



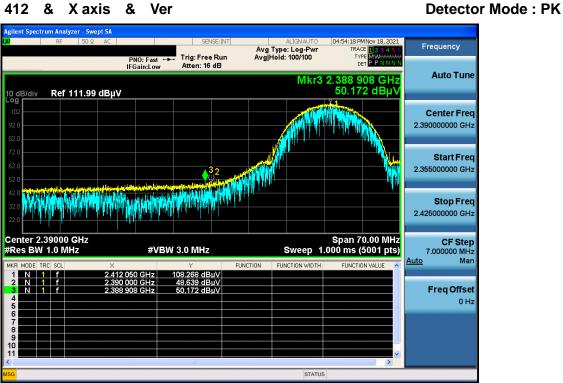


APPENDIX III

Unwanted Emissions (Radiated) Test Plot

- Power Supply: 24 V

TM 1 & 2412 & X axis & Ver



TM 1 & 2412 & Xaxis & Ver

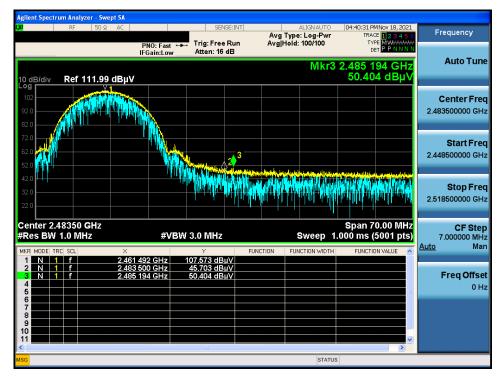


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TM 1 & 2462 & Xaxis & Ver

Detector Mode: PK



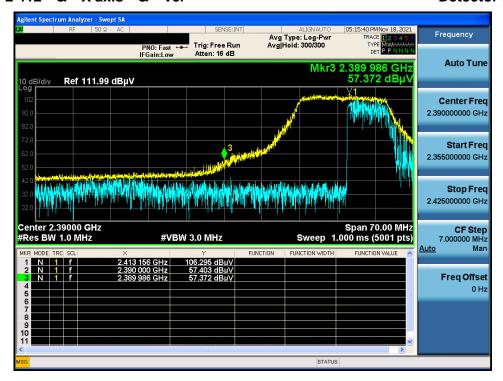
TM 1 & 2462 & Xaxis & Ver





TM 2 & 2412 & Xaxis & Ver

Detector Mode: PK



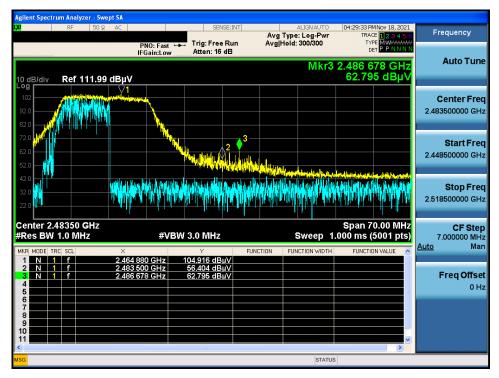
TM 2 & 2412 & X axis & Ver



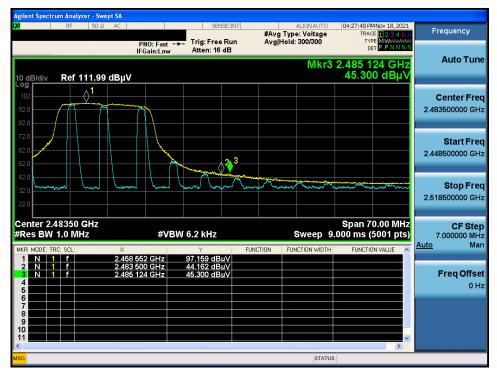


TM 2 & 2462 & Xaxis & Ver

Detector Mode: PK



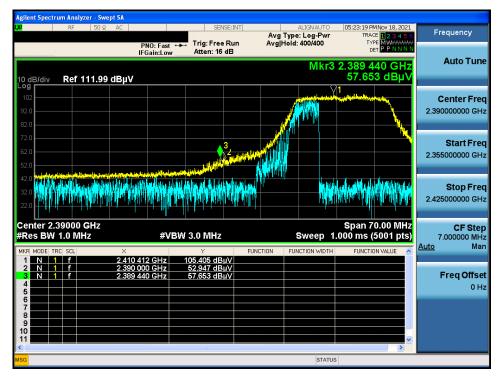
TM 2 & 2462 & X axis & Ver





TM 3 & 2412 & Xaxis & Ver

Detector Mode: PK



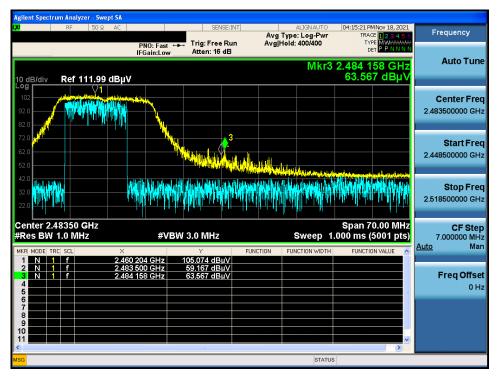
TM 3 & 2412 & Xaxis & Ver



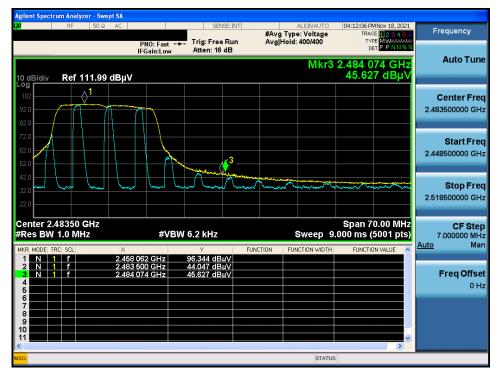


TM 3 & 2462 & Zaxis & Ver

Detector Mode: PK



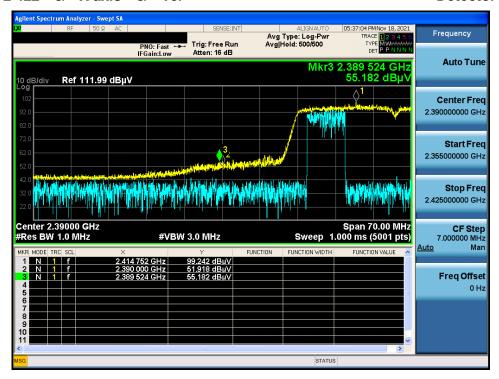
TM 3 & 2462 & Xaxis & Ver



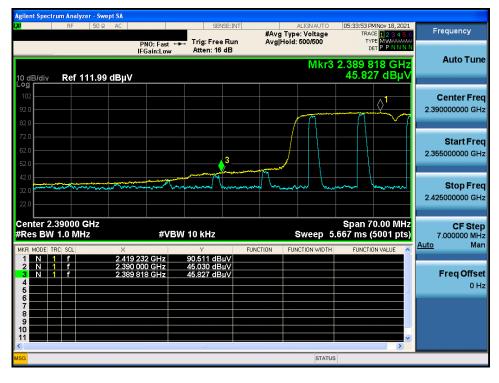


TM 4 & 2422 & Xaxis & Ver

Detector Mode: PK



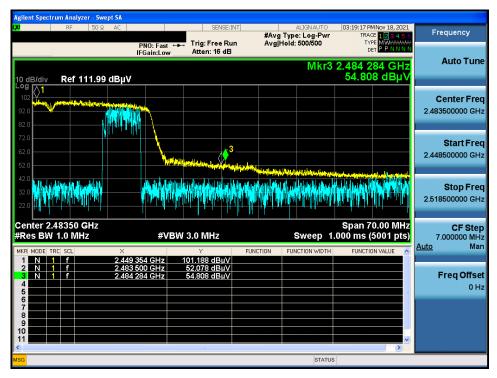
TM 4 & 2422 & Xaxis & Ver





TM 4 & 2452 & Xaxis & Ver

Detector Mode: PK



TM 4 & 2452 & Xaxis & Ver





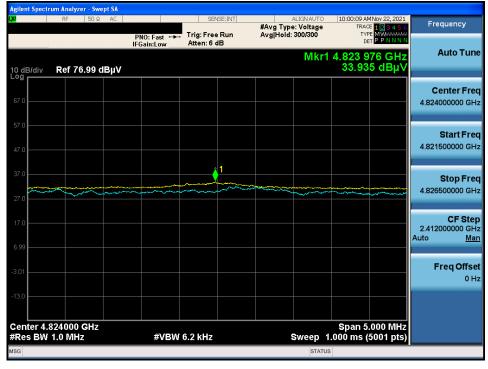
TM 1 & 2437 & Zaxis & Ver





TM 2 & 2412 & Zaxis & Hor

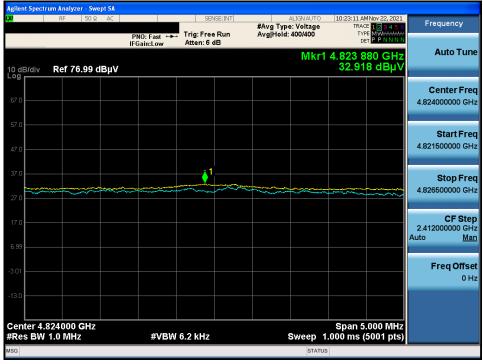






TM 3 & 2412 & Zaxis & Hor





TM 4 & 2422 & Zaxis & Hor



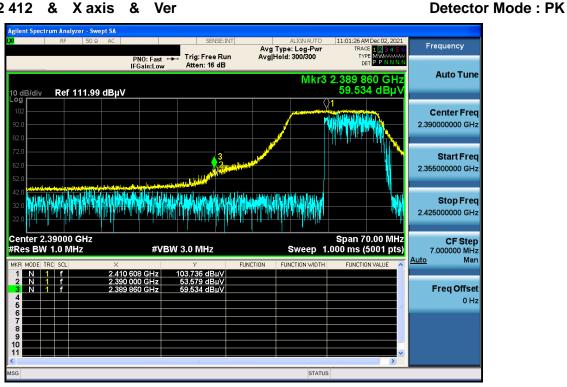




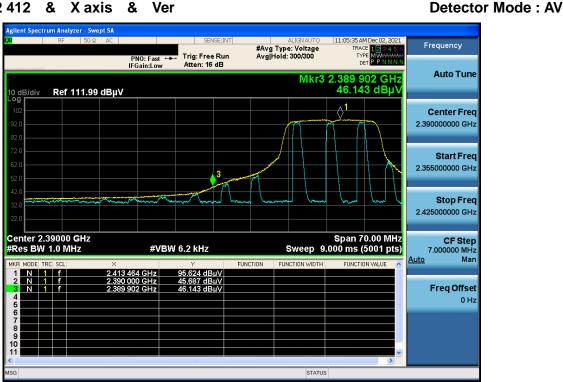


- Power Supply: 12 V

TM 2 & 2412 & Xaxis & Ver



TM 2 & 2412 & X axis & Ver



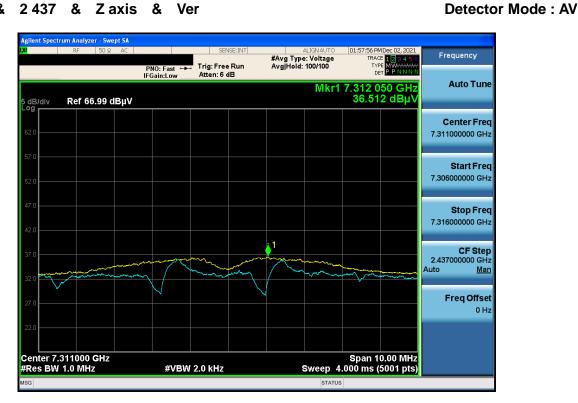
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IC: 23402-BV7

FCC ID: YCK-BV7

TM 1 & 2437 & Zaxis & Ver



TRF-RF-232(04)210316 Pages: 153 / 153