LISUN RS & CS Immunity Test Standard Operating Procedure (SOP)

CONTENT

Best Regards,

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1. RS (Radiated Immunity) Test Procedure (3m and 10V/m)

1.1 Hardware Setup and Power-on

1.1.1 Environmental setup: Refer to section 5.3 of IEC 61000-4-3:2020 and Figure 1. Fix the antenna at the marked position in the anechoic chamber; fix the field strength probe LS-PB60 at the marked position on the test table (i.e., 3m away from the antenna); place 3*3 absorbing material directly in front of the antenna.

1.1.2 Equipment startup: Turn on the power to the field strength probe LS-PB60 and confirm that the blue indicator light is on; turn on the signal source LS-SMB100B, and turn on the RS power amplifier LS-0315M01 after an interval of 5-10 seconds.

1.2 Calibration Operation

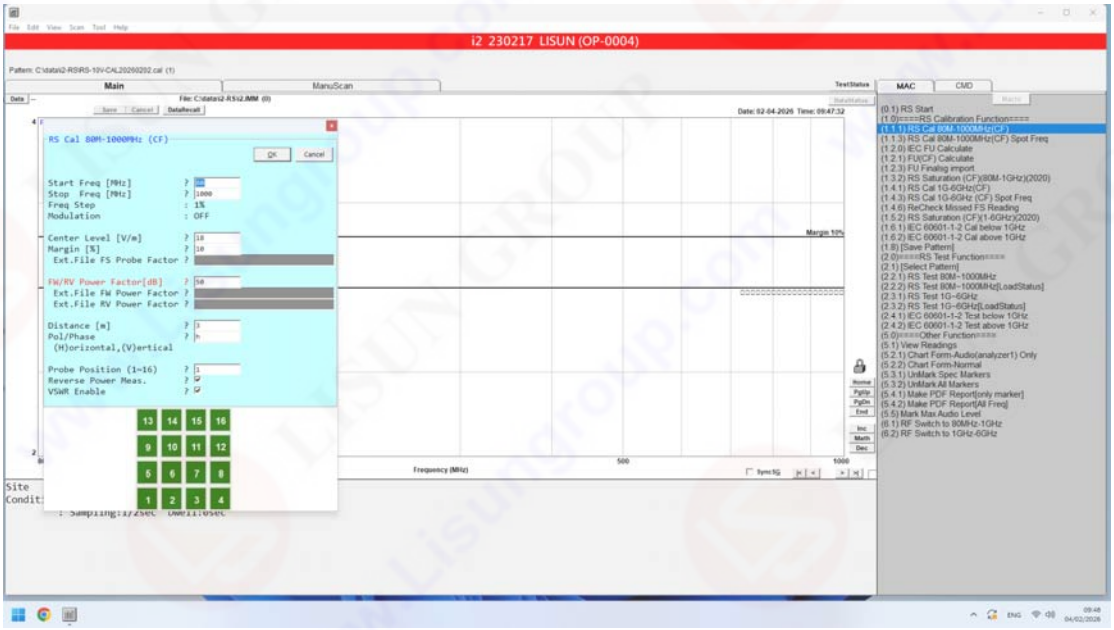
1.2.1 Horizontal polarization (H) calibration

1.2.1.1 Adjust the antenna to be horizontal, ensuring that the cable is not dangled on the antenna mast.

1.2.1.2 Key pre-operation: Tap RF ON on the touchscreen of the power amplifier LS-0315M01.

1.2.1.3 Open the i2-RS software and click Start to enter the main interface.

1.2.1.4 Click on "RS CAL..." in the software interface 1.1.1, enter H (level) in the calibration interface, keep the other parameters at their default values (if a 3V/m test is required, change the Center Level to 5.4V/m; if a 10V/m test is required, change the Center Level to 18V/m) and click OK to enter the calibration.



1.2.1.5 Key final step: After calibration, click RF OFF on the power amplifier touchscreen.

1.2.1.6 Click 1.8 "Save Pattern", and name it in the format: RS-H-10VM-P1-Date.

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1.2.2 Vertical polarization (V) calibration

1.2.2.1 Adjust the antenna vertically, ensuring the cable is not dangled on the antenna mast.

1.2.2.2 Key pre-operation: Tap RF ON on the touchscreen of the LS-0315M01 power amplifier.。

1.2.2.3 Open the i2-RS software and click Start to enter the main interface.

1.2.2.4 Click on "RS CAL..." in the software interface 1.1.1, enter V (vertical) in the calibration interface, keep the other parameters at their default values and click OK to enter the calibration.

1.2.2.5 Key final step: After calibration, click RF OFF on the power amplifier touchscreen.

1.2.2.6 Click 1.8 "Save Pattern", and name it in the format: RS-V-10VM-P1-Date.

1.3 Sample (EUT) Installation

1.3.1 Open the Chamber door, place the EUT at the marked position on the test table, and adjust the front of the EUT to face the antenna to ensure it is placed stably.

1.3.2 Connect the EUT power supply, confirm that the equipment is powered on normally and in working condition, and close the anechoic chamber door.

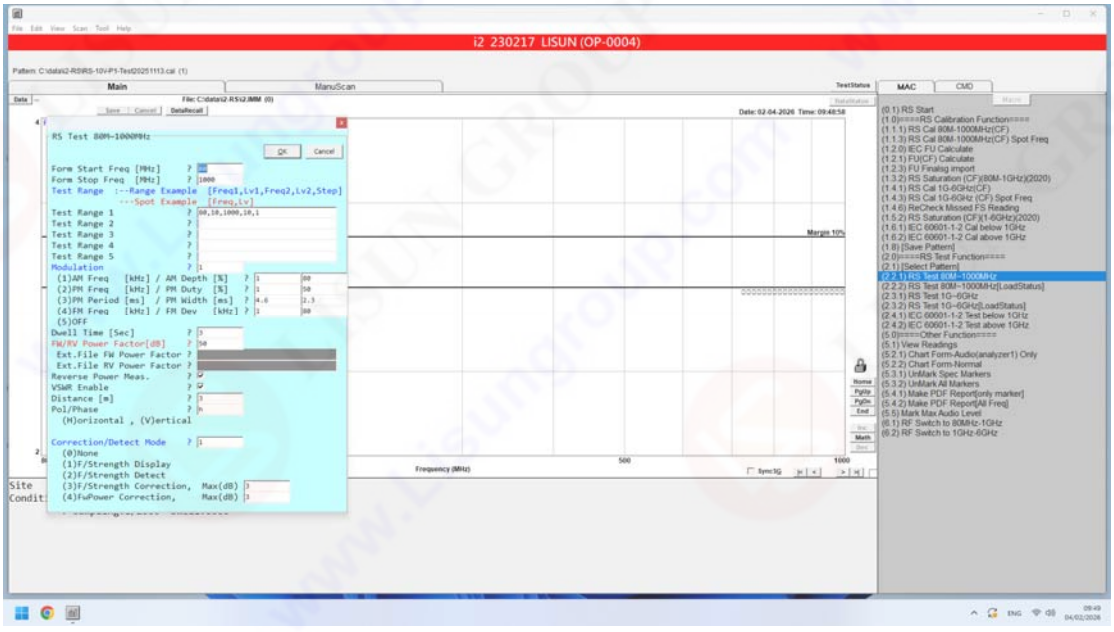
1.4 Test Execution

1.4.1 Vertical polarization test

1.4.1.1 After adjusting the antenna vertically, click "Select Pattern" in the software interface 2.1 to call up the vertical polarization calibration file, and ensure that the cable is not dangled on the antenna mast.

1.4.1.2 Key pre-operation: Tap RF ON on the amplifier touchscreen.

1.4.1.3 Click on "RS Test..." in the i2-RS software interface 2.2.1, enter V in Pol/Phase, and click OK to start the vertical polarization frontal test.



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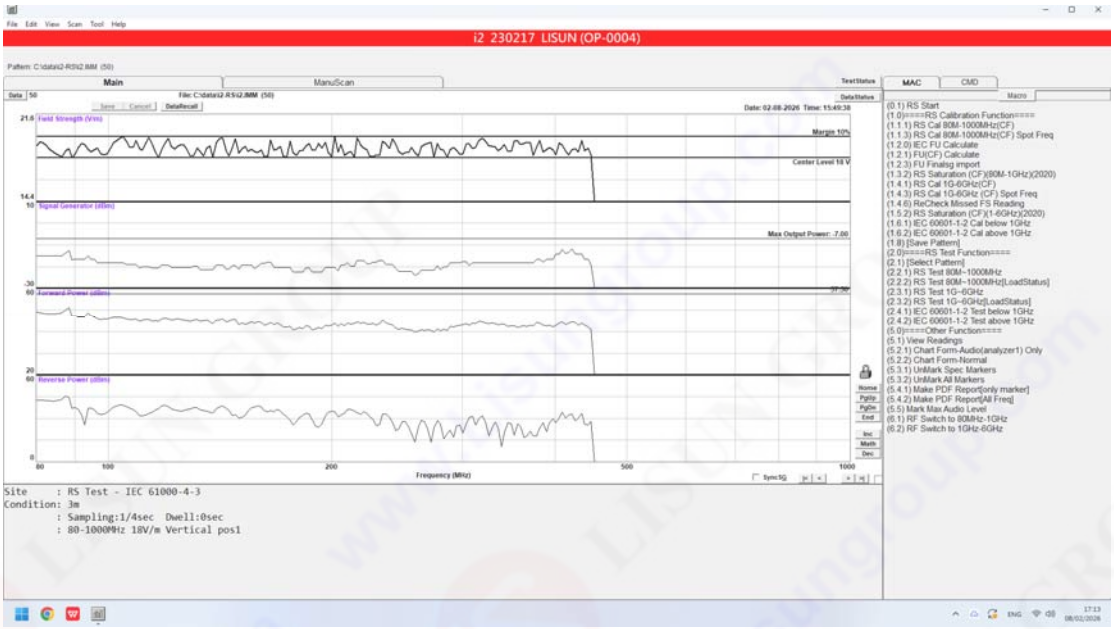

1.4.1.4 Key closing procedure: After the front test is completed, click RF OFF on the amplifier touchscreen.

1.4.1.5 Rotation test: Open the Chamber door, rotate the EUT 90° clockwise, and close the Chamber door. Repeat the "RF ON -> Continue testing -> RF OFF" steps to complete the vertical polarization test on all surfaces.

1.4.2 Horizontal polarization test

1.4.2.1 Adjust the antenna to horizontal polarization. Click "Select Pattern" in the software interface 2.1 to call up the horizontal polarization calibration file. Make sure the cable is not dangling on the antenna mast.

1.4.2.2 Repeat the “RF ON -> Test -> RF OFF -> Rotate EUT” process to complete the horizontal polarization test on all 6 faces.

1.5 Exception Handling and Judgment

1.5.1 If the EUT malfunctions during testing, immediately click "Stop" in the CMD on the right side of the software interface and simultaneously click "RF OFF" on the power amplifier touchscreen.

1.5.2 Record the abnormal frequency bands and phenomena before conducting further investigation.

1.5.3 Result determination: Determined strictly in accordance with the requirements of IEC 61000-4-3:2020 Clause 9.

2. RS and CS test mode switching operation

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2.1 Prerequisite for switching: Ensure that the RS test is completely powered off (power amplifier and signal source power are both off).

2.2 Manual switching steps

2.2.1 Disconnect signal source from the RS dedicated power amplifier (LS-0315M01) cable.

2.2.2 Securely connect the signal source cable to the corresponding interface of the CS dedicated power amplifier (LS-0315M00A).

2.2.3 Check the placement of the equipment required for CS testing (CDN, calibration fixtures, etc.) and ensure proper grounding.

2.2.4 Double confirm all USB connections whether have loose.

3. CS (Conducted Immunity) Test Procedure

3.1 Hardware setup and power-on

3.1.1 Wiring specifications (using CDN-M3-16 as an example): Refer to IEC 61000-4-6:2023 Figure 1. Connect the CDN's RF INPUT terminal to the 6dB attenuator to the power amplifier LS-0315M00A; connect the CDN's EUT terminal to the calibration fixture to the monitoring power meter LS-PM9K400M-MN; connect the AE terminal to the 50-ohm load of the calibration fixture. All components must be securely grounded.

3.1.2 Device startup: Turn on the signal source LS-SMB100B, and turn on the power amplifier LS-0315M00A after an interval of 5-10 seconds.

3.2 Calibration operation

3.2.1 Key pre-operation: Tap RF ON on the touchscreen of the power amplifier LS-0315M00A.

3.2.2 Click on the software interface 1.1.1 "CS CAL...", enter 20dB for Additional Attenuator, keep the other parameters at their default values and click OK to enter the calibration.

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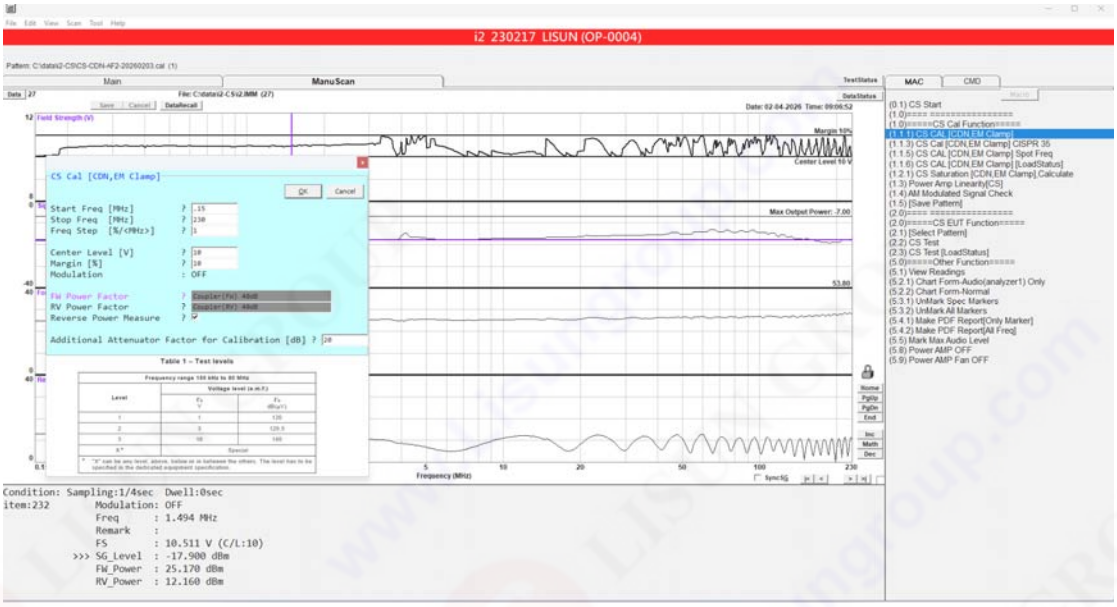

3.2.3 Key closing procedure: After calibration, immediately tap RF OFF on the power amplifier touchscreen

3.2.4 Click 1.5 "Save Pattern", and name it in the format: CS-CDN-M3-16-Date.

3.3 Sample (EUT) Installation

3.3.1 Open the Chamber door and remove the calibration fixture. Place a 5mm insulating pad under the EUT, at least 0.3m away from the CDN. Connect the EUT terminal of the CDN to the EUT, and connect the AE terminal to the EUT's input power supply.

3.3.2 Connect the EUT power supply, confirm that the equipment is powered on and in working condition, and close the Chamber door.

3.4 Test Execution

3.4.1 Click on the "Select Pattern" option in the software interface 2.1 to call up the corresponding calibration file.

3.4.2 Key pre-operation: Click RF ON on the power amplifier touchscreen.

3.4.3 Click on "CS Test" in section 2.2 of the software interface to start the test, keep the other parameters at their default values.

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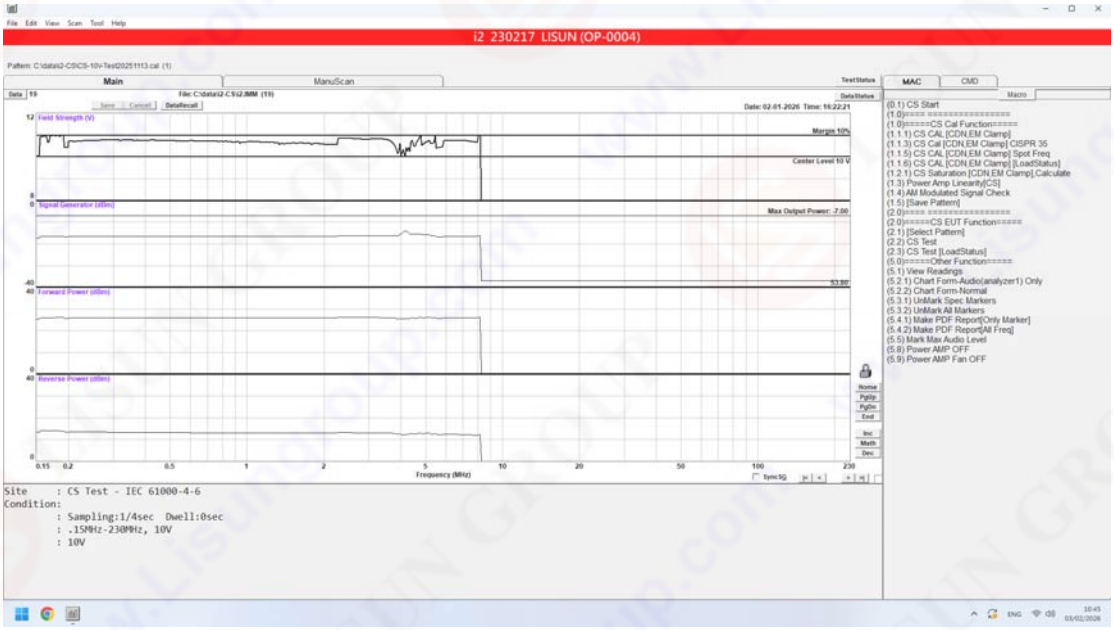

3.4.4 Click "RF OFF" when the test is complete.

4. Report generation and shutdown

4.1 Report Generation

4.1.1 In the software, navigate to "Make PDF Report (All Freq)" on the right side of the software interface.

4.1.2 Naming format: RS/CS-Sample Name-CDN Model-Date-Judgment Result

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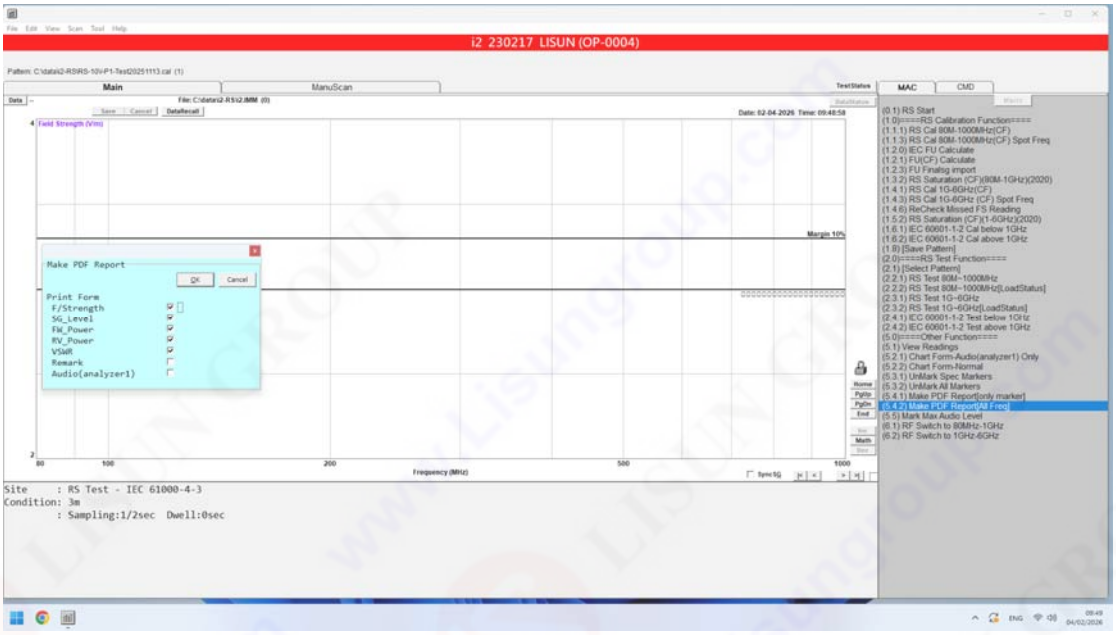

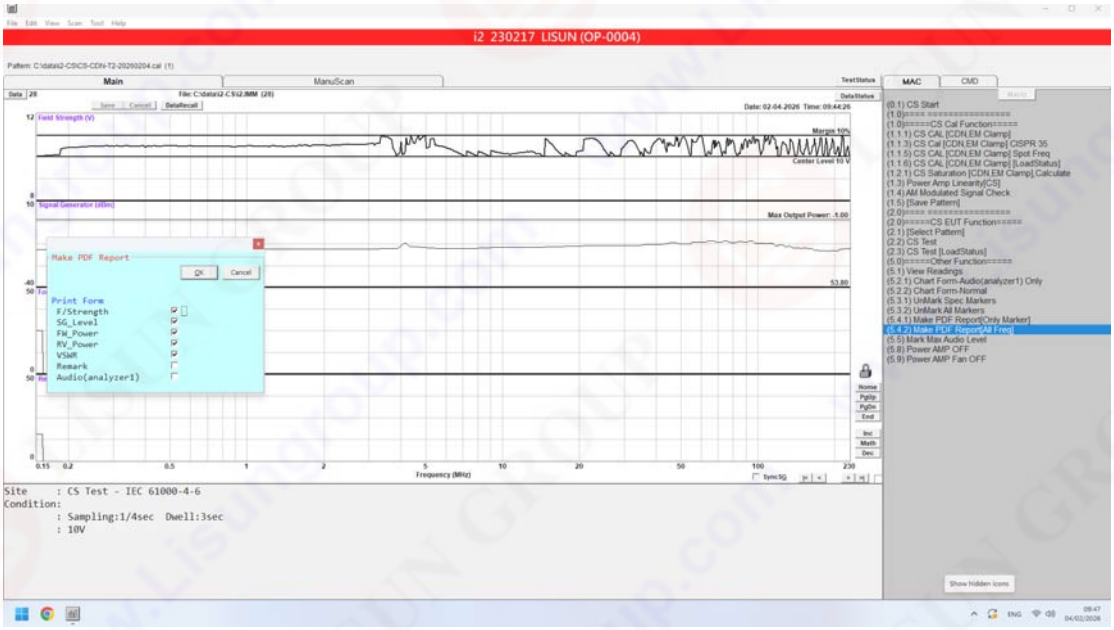

4.2 Shutdown Sequence

4.2.1 Close the test software.

4.2.2 Turn off the power amplifier (LS-0315M01 or LS-0315M00A).

4.2.3 After an interval of 5-10 seconds, turn off the signal source LS-SMB100B.

4.2.4 Turn off the probe power, straighten the optical fiber, and disconnect the main power supply to the anechoic chamber.

5. Core Operational Taboos

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5.1 Sequence guidelines: RF must be ON before calibration/testing; RF must be OFF after calibration/before opening the Chamber door.

5.2 Switching Guidelines: Before switching the RS/CS physical link, the hardware power must be completely turned off. Switching cables while the power is on is strictly prohibited.

5.3 Operational Guidelines: The power amplifier must not be run under no-load for more than 10 minutes; fiber optic cables must not be stepped on or bent at a small radius.

5.4 Emergency Guidelines: If any abnormal noise, odor, or smoke is detected, immediately disconnect the main power supply. Do not attempt to disassemble the equipment yourself.

5.5 Software Guidelines: When run i2-RS or is-CS, you can't run any other programs at the same time.

6. Typical Test Report

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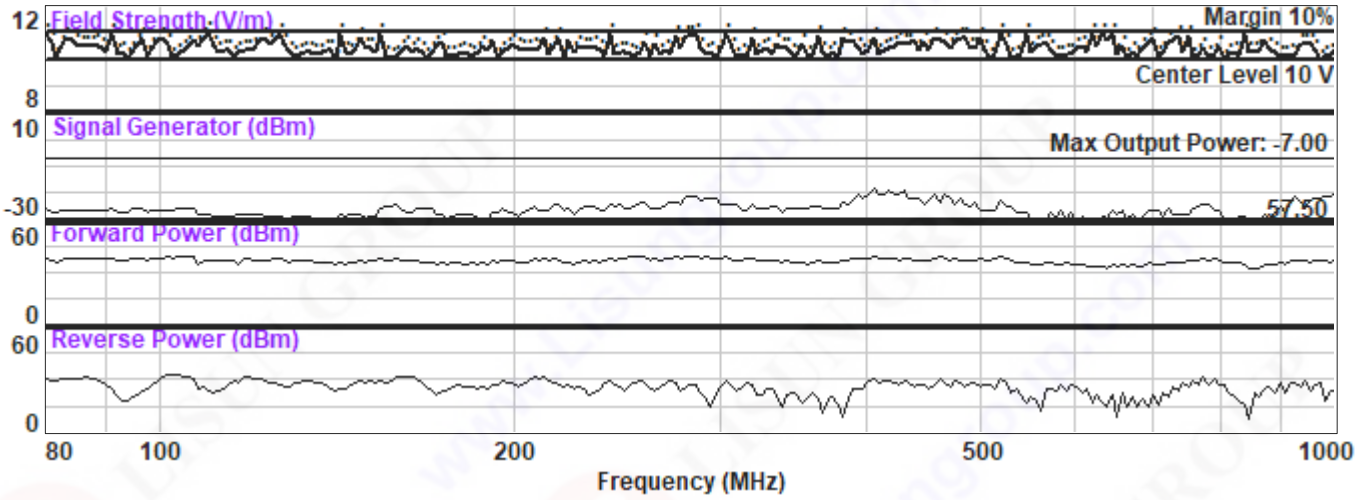
Data: 20 **File: C:\data\i2-RS\i2.IMM (20)**



Site : RS Test - IEC 61000-4-3
Condition: 3
: Sampling:1/4sec Dwell:3sec
: 80-1000MHz 10V/m Horizontal

Freq	Field Strength	SG Level	FW Power	RV Power	VSWR	Remark
MHz	V/m	dBm	dBm	dBm		
80.000	10.95	-26.21	37.79	30.71	2.59	.
80.800	10.61	-27.71	36.39	29.30	2.58	.
81.608	10.05	-27.71	36.28	29.17	2.58	.
82.424	10.51	-26.51	37.46	30.43	2.60	.
83.248	10.82	-26.51	37.51	30.46	2.60	.
84.081	10.74	-26.51	37.62	30.57	2.60	.
84.922	10.60	-26.51	37.72	30.77	2.63	.
85.771	10.51	-26.51	37.81	30.98	2.67	.
86.629	10.48	-26.51	37.87	31.02	2.67	.
87.495	10.52	-26.51	37.87	30.74	2.57	.
88.370	10.60	-26.51	37.78	29.99	2.38	.
89.253	10.40	-26.51	37.64	28.57	2.09	.
90.146	10.25	-26.51	37.52	26.71	1.81	.
91.047	10.95	-25.61	38.45	25.16	1.55	.
91.958	10.18	-27.11	36.91	20.60	1.36	.
92.878	10.30	-27.21	36.68	17.93	1.26	.
93.806	10.07	-27.31	36.70	17.77	1.26	.
94.744	10.31	-26.21	37.71	20.03	1.30	.
95.692	10.57	-26.21	37.66	21.61	1.37	.
96.649	10.80	-26.21	37.61	23.29	1.48	.

Freq	Field Strength	SG Level	FW Power	RV Power	VSWR	Remark
MHz	V/m	dBm	dBm	dBm		
97.615	10.10	-27.51	36.89	24.51	1.63	.
98.591	10.44	-26.61	37.82	27.44	1.87	.
99.577	10.70	-26.61	38.11	29.46	2.17	.
100.573	10.77	-26.61	38.37	31.05	2.51	.
101.579	10.57	-26.61	38.71	32.12	2.76	.
102.595	10.05	-26.61	38.57	32.13	2.82	.
103.621	10.17	-26.11	39.27	32.75	2.79	.
104.657	10.33	-26.11	38.91	32.11	2.68	.
105.703	10.51	-26.11	38.81	31.40	2.48	.
106.760	10.76	-26.11	38.81	30.38	2.22	.
107.828	10.48	-27.81	34.67	24.74	1.94	.
108.906	10.83	-27.81	37.28	25.59	1.70	.
109.995	11.00	-27.81	37.44	24.16	1.55	.
111.095	10.50	-29.01	36.77	22.73	1.50	.
112.206	10.28	-29.01	37.11	23.75	1.55	.
113.328	10.31	-29.01	36.91	25.30	1.71	.
114.462	10.35	-29.01	37.00	27.40	1.99	.
115.606	10.12	-29.01	37.11	29.20	2.35	.
116.762	10.28	-27.81	34.77	28.07	2.72	.
117.930	10.37	-27.81	37.69	31.75	3.04	.
119.109	10.38	-27.81	37.58	31.92	3.18	.
120.300	10.41	-27.81	36.80	30.94	3.08	.
121.503	10.73	-27.81	37.24	30.32	2.64	.
122.718	10.78	-28.71	36.86	28.88	2.33	.
123.945	10.54	-28.71	37.32	28.45	2.13	.
125.185	10.73	-28.71	37.67	27.86	1.96	.
126.437	10.94	-28.71	37.58	27.12	1.86	.
127.701	10.55	-29.51	36.53	26.12	1.86	.
128.978	10.25	-29.51	36.23	26.42	1.96	.
130.268	10.12	-28.71	36.81	27.87	2.11	.
131.571	10.22	-28.71	36.78	28.58	2.27	.
132.886	10.25	-28.71	36.96	29.33	2.42	.
134.215	10.27	-28.71	37.34	29.73	2.43	.
135.557	10.23	-30.41	35.72	28.58	2.57	.
136.913	10.20	-30.41	36.20	28.54	2.41	.
138.282	10.34	-30.41	36.07	27.17	2.12	.
139.665	10.34	-30.41	35.42	24.66	1.82	.
141.061	10.00	-30.41	34.76	23.16	1.71	.
142.472	10.95	-28.31	36.30	25.25	1.78	.

Freq	Field Strength	SG Level	FW Power	RV Power	VSWR	Remark
MHz	V/m	dBm	dBm	dBm		
143.897	10.25	-29.21	35.12	25.17	1.93	.
145.336	10.21	-28.41	35.95	27.09	2.13	.
146.789	10.40	-28.41	36.33	28.24	2.30	.
148.257	10.79	-28.41	36.91	29.28	2.42	.
149.740	10.41	-29.81	35.99	28.48	2.46	.
151.237	10.40	-28.51	37.29	29.77	2.45	.
152.749	10.29	-28.51	36.60	28.69	2.35	.
154.277	10.92	-25.71	38.03	29.63	2.23	.
155.820	10.15	-25.21	37.34	28.73	2.18	.
157.378	10.04	-25.21	36.85	28.79	2.31	.
158.952	10.12	-24.41	37.88	31.02	2.66	.
160.541	10.37	-26.31	37.27	31.45	3.10	.
162.147	10.49	-27.71	37.02	31.77	3.41	.
163.768	10.24	-27.71	37.01	31.54	3.28	.
165.406	10.43	-26.21	37.14	30.80	2.86	.
167.060	10.24	-26.21	35.95	28.42	2.45	.
168.730	10.02	-26.21	35.69	26.18	2.01	.
170.418	10.27	-26.21	35.94	23.96	1.67	.
172.122	10.49	-27.91	35.02	21.80	1.56	.
173.843	10.68	-27.91	35.93	23.60	1.64	.
175.581	10.10	-29.71	34.66	24.18	1.85	.
177.337	10.12	-29.01	35.35	26.31	2.09	.
179.111	10.19	-28.01	35.62	27.06	2.19	.
180.902	10.25	-28.01	35.18	26.47	2.16	.
182.711	10.17	-28.01	34.99	26.15	2.13	.
184.538	10.13	-28.01	35.29	26.05	2.05	.
186.383	10.30	-29.61	34.74	24.96	1.96	.
188.247	10.46	-29.61	35.32	25.65	1.98	.
190.130	10.36	-29.61	34.83	25.18	1.98	.
192.031	10.74	-27.61	36.43	26.90	2.00	.
193.951	10.07	-27.61	35.85	27.25	2.18	.
195.891	10.28	-26.01	37.43	29.41	2.32	.
197.850	10.43	-27.51	36.48	28.12	2.24	.
199.828	10.59	-27.51	37.29	28.01	2.05	.
201.826	10.39	-29.01	35.97	25.95	1.92	.
203.845	10.38	-27.71	36.05	26.95	2.08	.
205.883	10.37	-26.31	36.31	28.89	2.48	.
207.942	10.39	-24.91	37.51	31.39	2.95	.
210.021	10.36	-26.31	36.76	30.93	3.09	.

Freq	Field Strength	SG Level	FW Power	RV Power	VSWR	Remark
MHz	V/m	dBm	dBm	dBm		
212.122	10.82	-26.31	37.99	31.64	2.86	.
214.243	10.20	-26.31	37.39	29.63	2.39	.
216.385	10.52	-24.21	37.56	28.22	2.04	.
218.549	10.81	-24.21	36.83	27.21	1.99	.
220.735	10.05	-26.31	35.42	26.27	2.07	.
222.942	10.71	-26.21	36.28	26.96	2.04	.
225.171	10.30	-28.01	35.00	25.21	1.96	.
227.423	10.52	-26.41	36.28	26.27	1.92	.
229.697	10.43	-25.11	36.41	24.67	1.70	.
231.994	10.42	-25.11	35.87	21.58	1.48	.
234.314	10.49	-25.11	36.73	23.09	1.53	.
236.657	10.34	-26.91	36.18	25.03	1.77	.
239.024	10.10	-26.91	37.11	27.73	2.03	.
241.414	10.95	-24.61	38.54	29.66	2.12	.
243.828	10.16	-25.01	37.38	27.27	1.91	.
246.267	10.24	-24.01	38.44	25.67	1.60	.
248.729	10.26	-25.51	38.16	24.18	1.50	.
251.216	10.19	-25.51	39.20	27.16	1.67	.
253.729	10.14	-24.81	39.26	28.59	1.83	.
256.266	10.28	-23.81	39.32	29.15	1.90	.
258.829	10.64	-23.81	39.19	28.46	1.82	.
261.417	10.12	-26.21	37.35	24.47	1.59	.
264.031	10.60	-26.11	38.07	23.85	1.48	.
266.671	10.23	-26.11	37.20	25.89	1.75	.
269.338	10.32	-24.61	37.47	28.24	2.06	.
272.031	10.16	-23.81	38.15	28.97	2.07	.
274.752	10.90	-23.81	38.89	27.74	1.77	.
277.499	10.43	-24.21	38.11	23.44	1.45	.
280.274	10.89	-21.71	39.55	25.51	1.50	.
283.077	10.91	-21.71	39.25	26.86	1.63	.
285.908	10.96	-21.71	39.63	26.54	1.57	.
288.767	10.45	-23.11	38.26	22.44	1.39	.
291.655	10.18	-22.41	38.62	19.16	1.24	.
294.571	10.27	-22.41	38.45	14.39	1.13	.
297.517	10.15	-22.41	38.31	21.37	1.33	.
300.492	10.35	-24.11	37.91	26.26	1.71	.
303.497	10.97	-24.11	38.95	28.90	1.92	.
306.532	10.41	-24.51	37.32	25.82	1.73	.
309.597	10.06	-24.51	37.21	23.47	1.52	.

Freq	Field Strength	SG Level	FW Power	RV Power	VSWR	Remark
MHz	V/m	dBm	dBm	dBm		
312.693	10.19	-26.71	36.85	25.69	1.77	.
315.820	10.08	-26.31	37.59	28.05	2.00	.
318.978	10.81	-24.31	38.11	27.39	1.82	.
322.168	10.21	-26.01	36.57	21.43	1.42	.
325.390	10.38	-26.01	37.43	21.78	1.40	.
328.644	10.43	-26.01	36.86	24.24	1.61	.
331.930	10.18	-25.31	36.89	24.40	1.62	.
335.249	10.57	-25.31	36.65	20.95	1.39	.
338.602	10.45	-27.01	35.72	14.59	1.19	.
341.988	10.43	-25.61	36.41	20.91	1.40	.
345.408	10.18	-25.61	35.56	22.88	1.61	.
348.862	10.13	-25.61	35.97	21.60	1.47	.
352.350	10.60	-25.61	36.13	16.73	1.24	.
355.874	10.15	-25.61	35.04	20.13	1.44	.
359.433	10.15	-25.41	35.72	22.39	1.55	.
363.027	10.87	-25.41	36.44	19.31	1.32	.
366.657	10.30	-25.81	35.33	11.51	1.14	.
370.324	10.09	-25.81	35.90	18.80	1.32	.
374.027	10.26	-25.81	36.25	20.19	1.37	.
377.767	10.13	-25.81	35.84	15.43	1.21	.
381.545	10.82	-23.51	37.42	9.12	1.08	.
385.360	10.61	-24.51	36.73	19.54	1.32	.
389.214	10.69	-22.61	38.04	24.78	1.56	.
393.106	10.41	-20.61	38.42	24.58	1.51	.
397.037	10.21	-21.91	37.54	24.33	1.56	.
401.008	10.38	-20.61	38.59	29.61	2.10	.
405.018	10.83	-18.11	38.81	30.29	2.20	.
409.068	10.22	-20.41	37.82	27.73	1.91	.
413.159	10.36	-20.41	37.77	29.42	2.24	.
417.290	10.41	-19.01	37.52	29.79	2.39	.
421.463	10.52	-20.91	37.77	27.70	1.91	.
425.678	10.67	-20.91	37.44	27.03	1.86	.
429.934	10.56	-19.41	37.70	29.33	2.23	.
434.234	10.59	-22.41	37.57	28.47	2.08	.
438.576	10.70	-22.41	36.89	25.50	1.74	.
442.962	10.38	-22.41	36.57	26.89	1.98	.
447.392	10.63	-24.21	37.42	27.58	1.95	.
451.865	10.36	-23.01	37.22	24.67	1.62	.
456.384	10.81	-20.81	38.27	27.20	1.78	.

Freq	Field Strength	SG Level	FW Power	RV Power	VSWR	Remark
MHz	V/m	dBm	dBm	dBm		
460.948	10.70	-23.31	38.61	30.17	2.22	.
465.557	10.68	-20.91	38.46	28.71	1.96	.
470.213	10.40	-22.31	36.74	26.24	1.85	.
474.915	10.63	-24.51	37.70	29.64	2.31	.
479.664	10.81	-21.91	37.43	28.20	2.06	.
484.461	10.77	-24.01	37.05	25.67	1.74	.
489.306	10.40	-25.31	37.14	28.36	2.14	.
494.199	10.43	-23.81	37.35	27.96	2.03	.
499.141	10.79	-26.31	37.60	25.40	1.65	.
504.132	10.36	-26.31	36.72	27.45	2.05	.
509.173	10.06	-26.31	37.10	27.40	1.97	.
514.265	10.16	-26.31	37.60	25.03	1.62	.
519.408	10.95	-23.21	39.06	29.87	2.06	.
524.602	10.54	-25.21	38.38	28.17	1.89	.
529.848	10.07	-25.21	36.47	22.78	1.52	.
535.146	10.14	-27.21	35.55	25.10	1.86	.
540.498	10.21	-27.21	35.73	21.24	1.46	.
545.903	10.96	-27.21	35.76	16.64	1.25	.
551.362	10.27	-29.31	34.82	20.00	1.44	.
556.875	10.49	-29.31	34.62	18.52	1.37	.
562.444	10.55	-29.31	34.87	12.92	1.17	.
568.069	10.61	-29.31	35.37	24.81	1.84	.
573.749	10.32	-27.51	35.51	24.46	1.78	.
579.487	10.12	-29.81	34.54	23.19	1.74	.
585.282	10.14	-26.61	35.18	27.55	2.42	.
591.134	10.19	-29.31	35.24	23.68	1.72	.
597.046	10.20	-27.31	34.60	26.59	2.32	.
603.016	10.43	-30.41	34.80	25.47	2.04	.
609.046	10.50	-29.01	34.16	22.77	1.74	.
615.137	10.26	-32.51	33.54	24.50	2.09	.
621.288	10.98	-29.81	33.56	16.34	1.32	.
627.501	10.51	-31.41	33.17	21.64	1.72	.
633.776	10.91	-28.91	33.36	17.26	1.37	.
640.114	10.71	-29.31	32.76	14.36	1.27	.
646.515	10.98	-26.51	34.50	21.05	1.54	.
652.980	10.23	-28.01	33.04	8.72	1.13	.
659.510	10.50	-26.31	34.51	22.12	1.63	.
666.105	10.05	-29.51	33.13	14.71	1.27	.
672.766	10.26	-28.11	34.16	20.60	1.53	.

Freq	Field Strength	SG Level	FW Power	RV Power	VSWR	Remark
MHz	V/m	dBm	dBm	dBm		
679.494	10.09	-30.41	32.97	14.58	1.27	.
686.289	10.44	-28.61	33.75	18.86	1.44	.
693.152	10.62	-26.81	35.25	15.18	1.22	.
700.083	10.78	-26.81	35.19	20.97	1.48	.
707.084	10.14	-26.81	34.44	15.76	1.26	.
714.155	10.28	-28.51	34.41	22.44	1.67	.
721.296	10.65	-25.91	35.54	20.39	1.42	.
728.509	10.71	-27.81	36.15	26.01	1.90	.
735.794	10.85	-27.81	36.08	23.87	1.65	.
743.152	10.26	-27.81	36.12	27.66	2.21	.
750.584	10.88	-27.81	37.20	26.43	1.81	.
758.090	10.07	-25.61	36.68	29.13	2.44	.
765.671	10.17	-25.41	37.37	27.56	1.96	.
773.327	10.40	-24.21	38.34	31.20	2.57	.
781.061	10.09	-24.21	37.26	27.49	1.96	.
788.871	10.22	-26.81	38.26	30.98	2.52	.
796.760	10.47	-26.81	37.22	26.55	1.83	.
804.727	10.01	-29.81	35.63	26.55	2.08	.
812.775	10.19	-31.81	35.43	22.81	1.61	.
820.902	10.30	-30.01	35.23	19.94	1.42	.
829.112	10.16	-29.21	35.29	17.86	1.31	.
837.403	10.93	-29.21	34.88	16.08	1.26	.
845.777	10.28	-31.31	32.90	7.64	1.12	.
854.234	10.24	-33.01	32.77	22.43	1.87	.
862.777	10.32	-30.31	32.44	20.00	1.63	.
871.405	10.75	-28.01	34.55	25.00	2.00	.
880.119	10.39	-29.91	35.02	26.36	2.17	.
888.920	10.28	-27.21	34.21	22.66	1.72	.
897.809	10.14	-24.81	35.37	27.93	2.48	.
906.787	10.13	-27.31	35.17	22.97	1.65	.
915.855	10.23	-23.41	36.73	28.72	2.32	.
925.013	10.13	-21.01	36.54	27.63	2.12	.
934.264	10.55	-23.81	36.56	25.41	1.77	.
943.606	10.54	-26.01	36.84	29.55	2.52	.
953.042	10.59	-23.11	36.24	23.88	1.64	.
962.573	10.32	-21.81	36.79	27.07	1.97	.
972.198	10.00	-21.81	37.41	28.43	2.10	.
981.920	10.09	-21.61	37.16	18.04	1.25	.
991.740	10.17	-21.61	36.17	23.50	1.61	.

Freq	Field Strength	SG Level	FW Power	RV Power	VSWR	Remark
MHz	V/m	dBm	dBm	dBm		
1000.000	10.36	-20.01	36.92	24.00	1.58	.