64 QAM

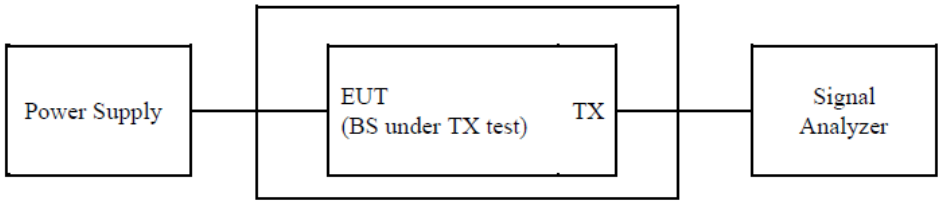
256 QAM

5.5 PEAK TO AVERAGE RATIO

1.14.1 Limits of Peak to Average Ratio Measurement

IN MEASURING TRANSMISSIONS IN THIS BAND USING AN AVERAGE POWER TECHNIQUE, THE PEAK TO-AVERAGE RATIO (PAR) OF THE TRANSMISSION MAY NOT EXCEED 13 DB.

1.14.2 Test Setup



1.14.3 Test Procedures

1. **SET RESOLUTION/MEASUREMENT BANDWIDTH ≥ SIGNAL'S OCCUPIED BANDWIDTH;**
2. **SET THE NUMBER OF COUNTS TO A VALUE THAT STABILIZES THE MEASURED CCDF CURVE;**
3. **RECORD THE MAXIMUM PAPR LEVEL ASSOCIATED WITH A PROBABILITY OF 0.1 %.**

1.14.4 Test Result

Frequency (MHz)	Bandwidth (MHz)	Peak to Average Ratio (dB)	Limit (dB)	Result
3555.72	10	8.14	≤ 13.00	Pass
3625.005	10	8.21	≤ 13.00	Pass
3694.29	10	8.27	≤ 13.00	Pass
3560.01	20	9.03	≤ 13.00	Pass
3625.005	20	9.17	≤ 13.00	Pass
3690	20	8.71	≤ 13.00	Pass
3570.24	40	8.39	≤ 13.00	Pass
3625.005	40	8.36	≤ 13.00	Pass
3679.755	40	8.45	≤ 13.00	Pass
3590.025	80	9.72	≤ 13.00	Pass
3625.005	80	9.56	≤ 13.00	Pass
3660	80	9.87	≤ 13.00	Pass
3600.255	100	8.33	≤ 13.00	Pass
3625.005	100	8.30	≤ 13.00	Pass
3649.755	100	8.45	≤ 13.00	Pass

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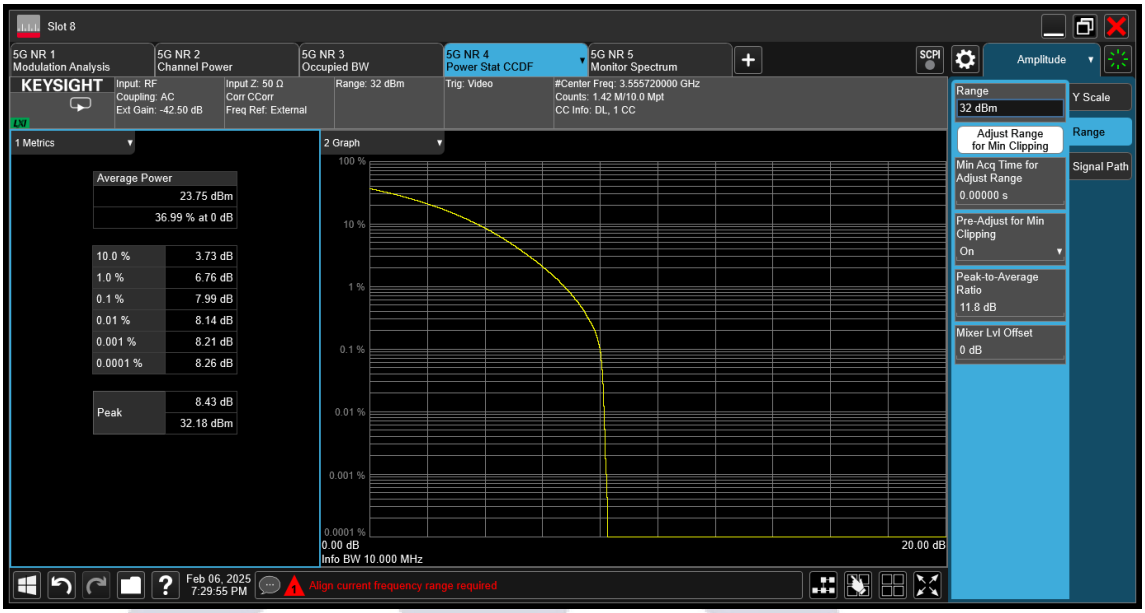
Test Plots

10 MHz @3555.72MHz



BW: 10 MHz- 3625.005MHz

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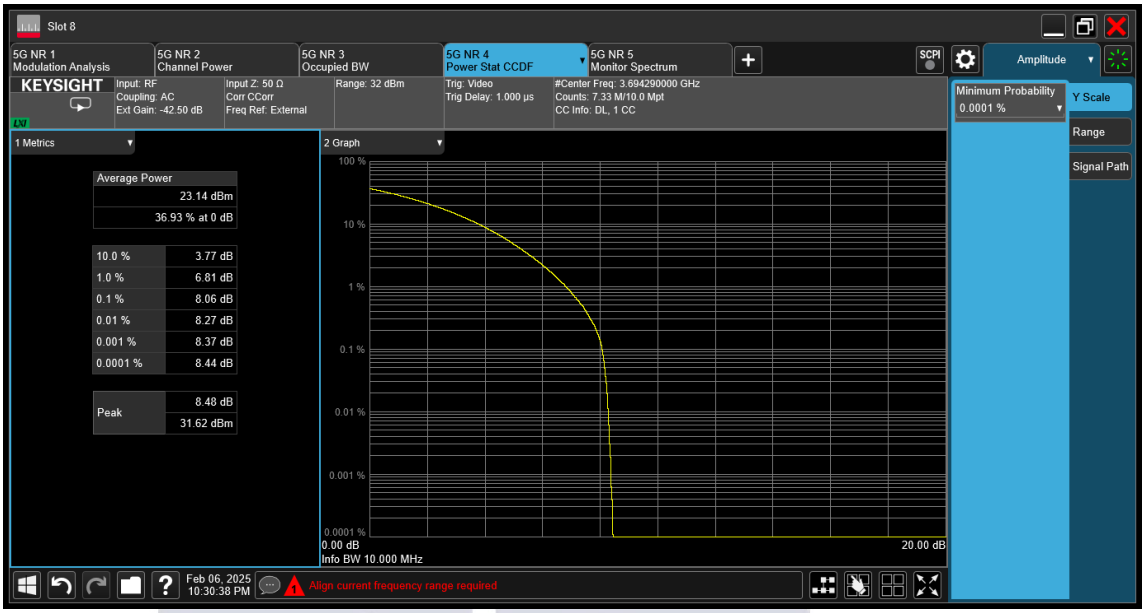
BM 10MHz@ 3694.29MHz



BW:20MHz@3560.010MHz

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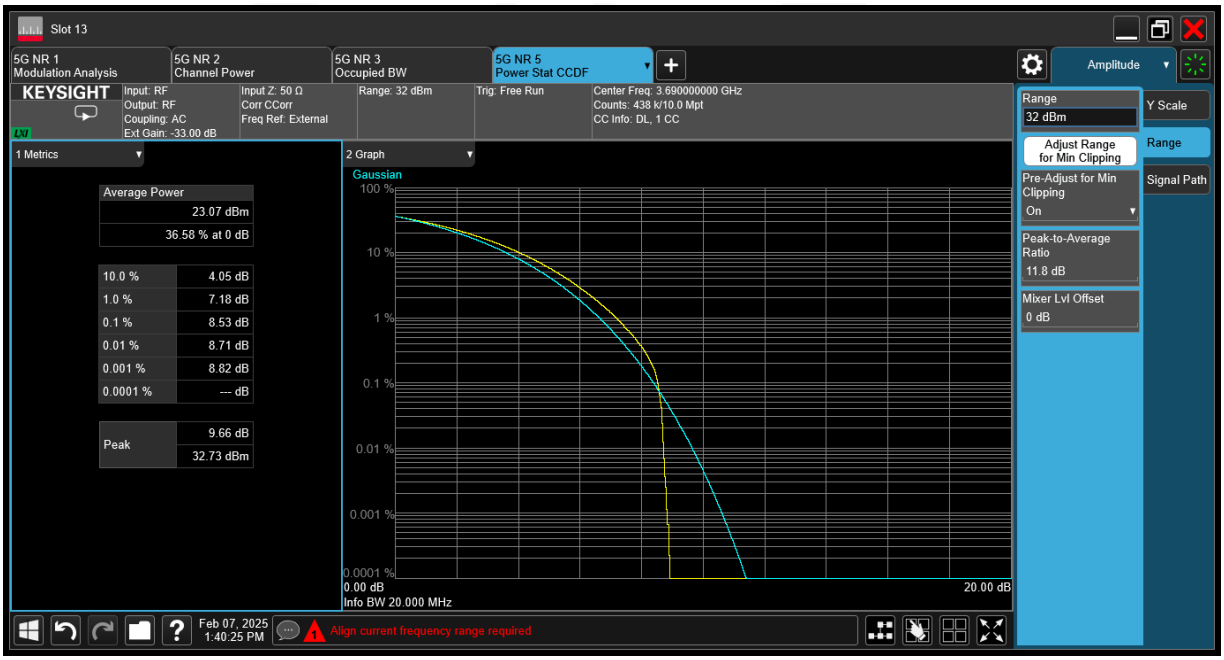
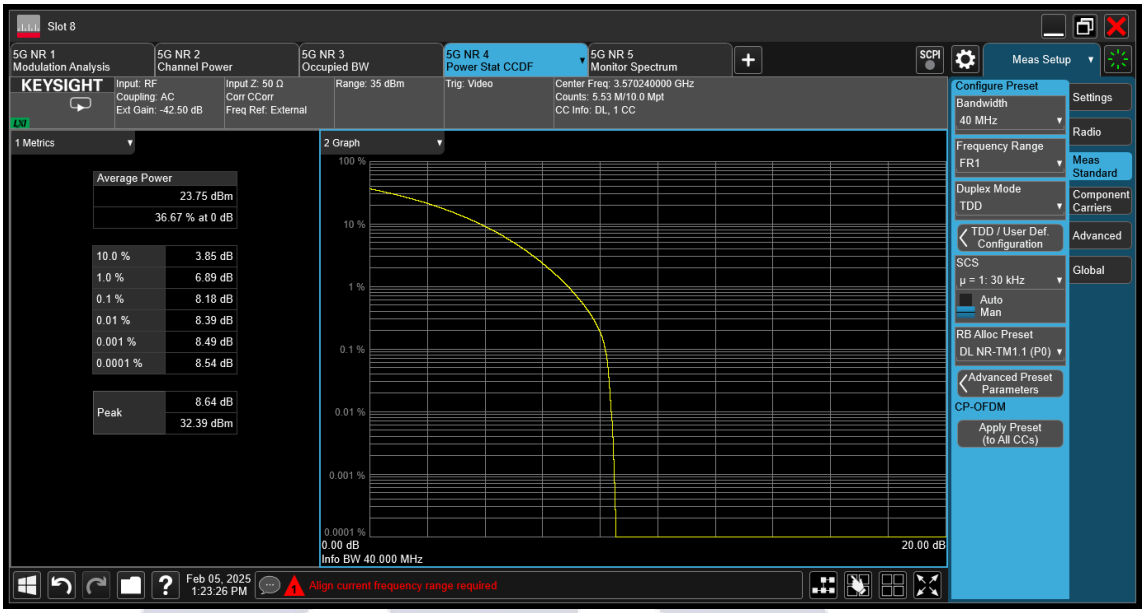
BW:20MHz@3625.005MHz

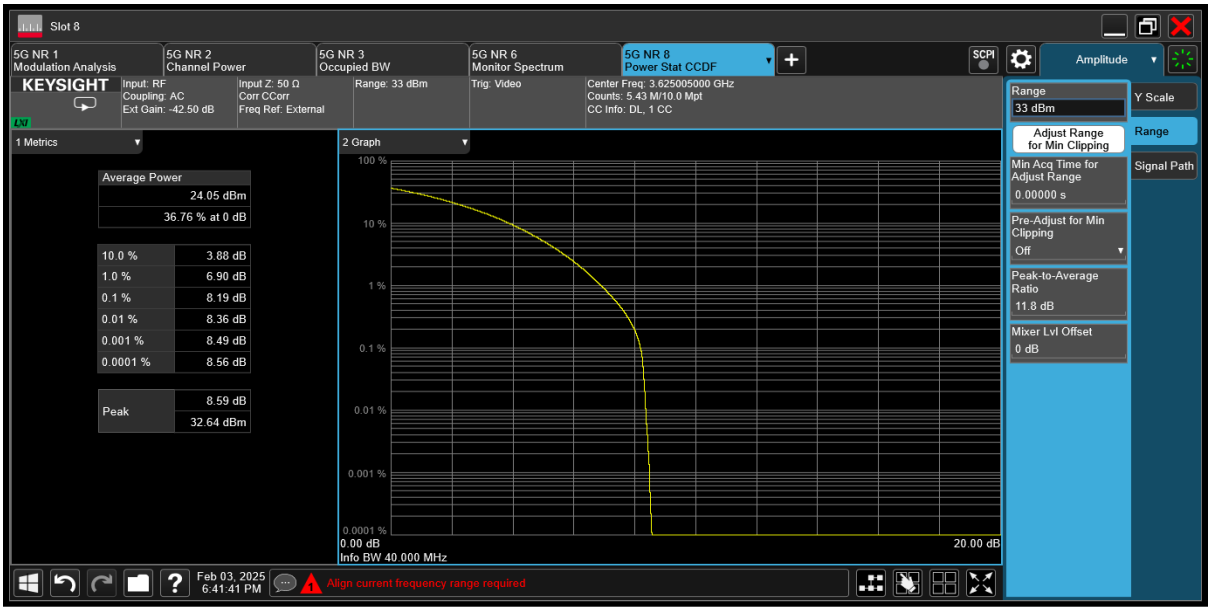
BW:20MHz@3690MHz



BW:40MHz@3570.24MHz



BW:40MHz@3625.005MHz



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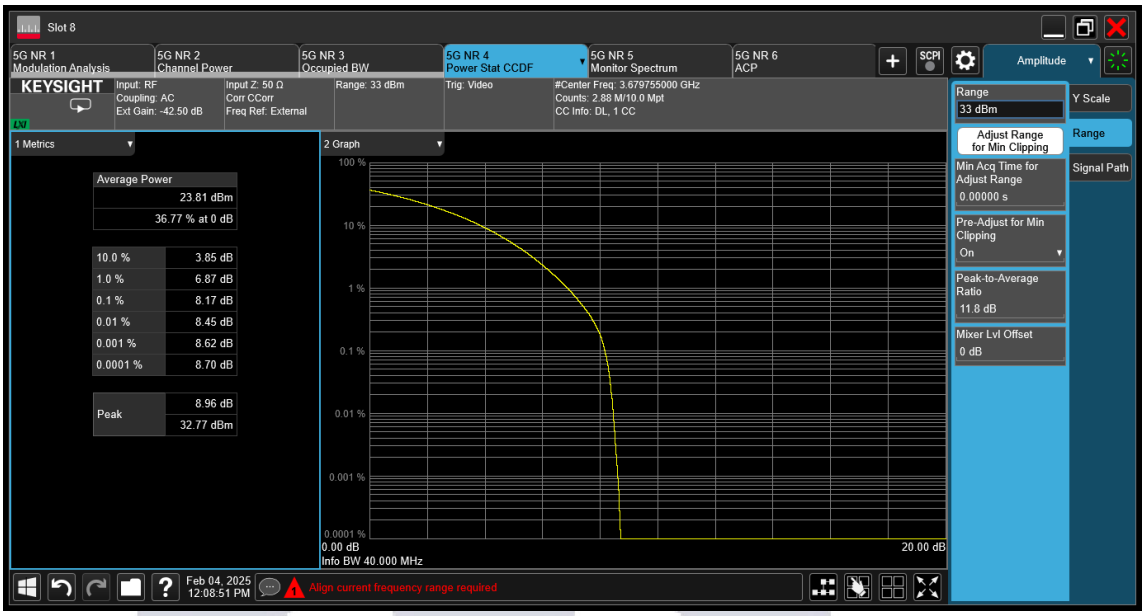
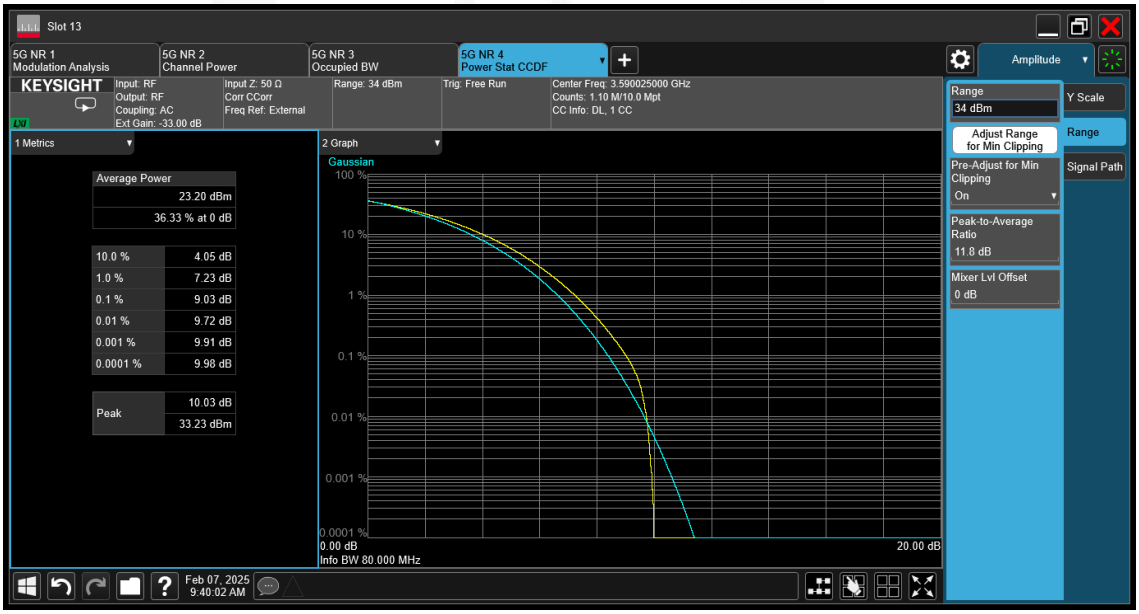
BW:40MHz@3679.755 MHz



BW:80MHz@3590.025 MHz



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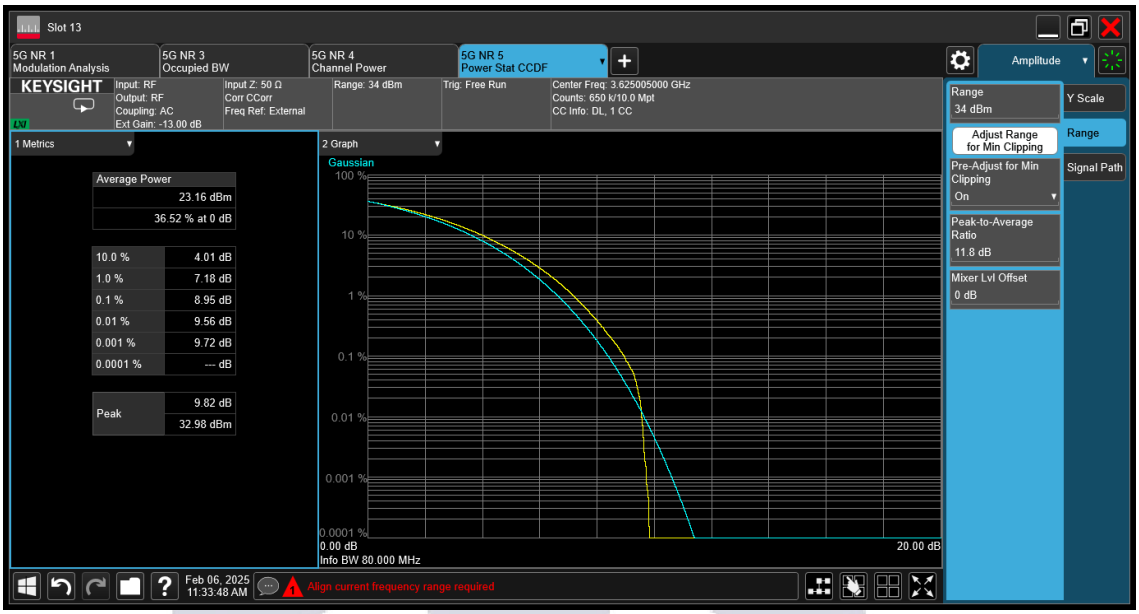
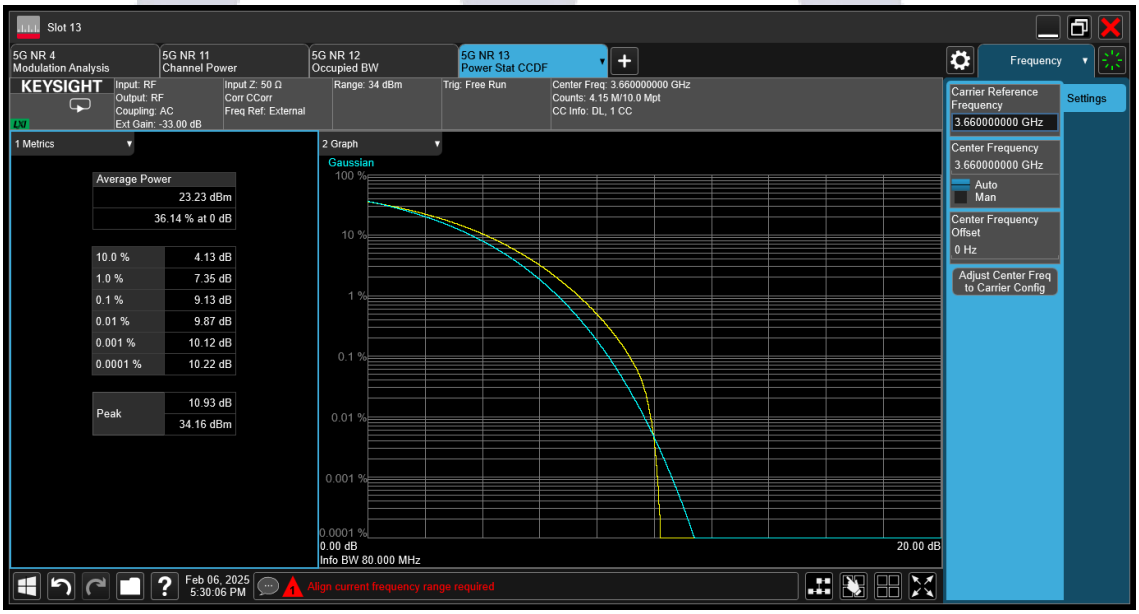
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

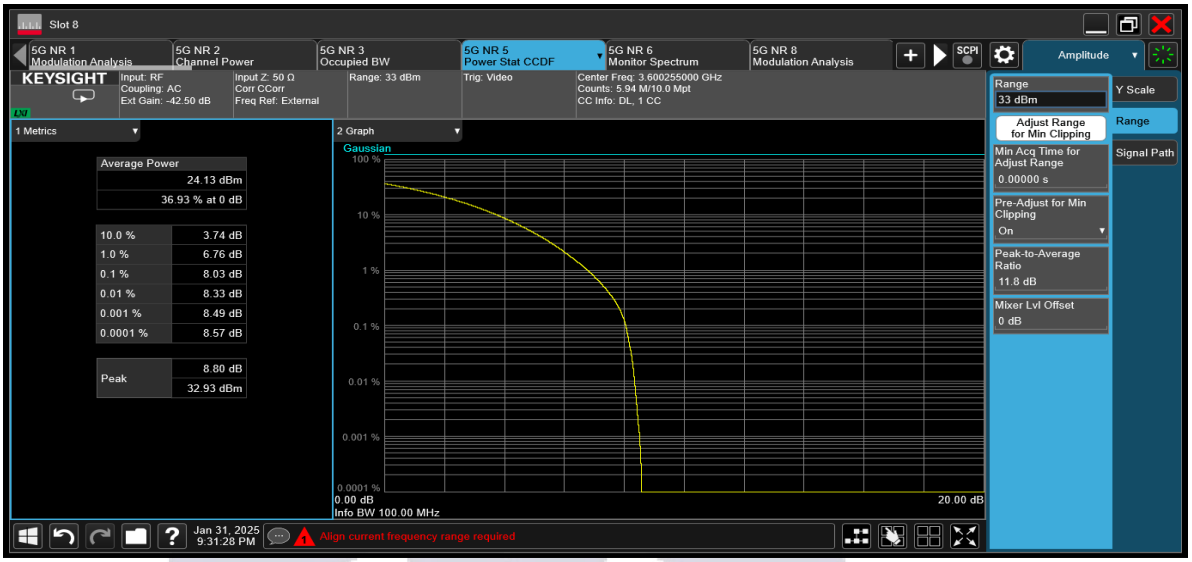
BW:80MHz@3625.005 MHz



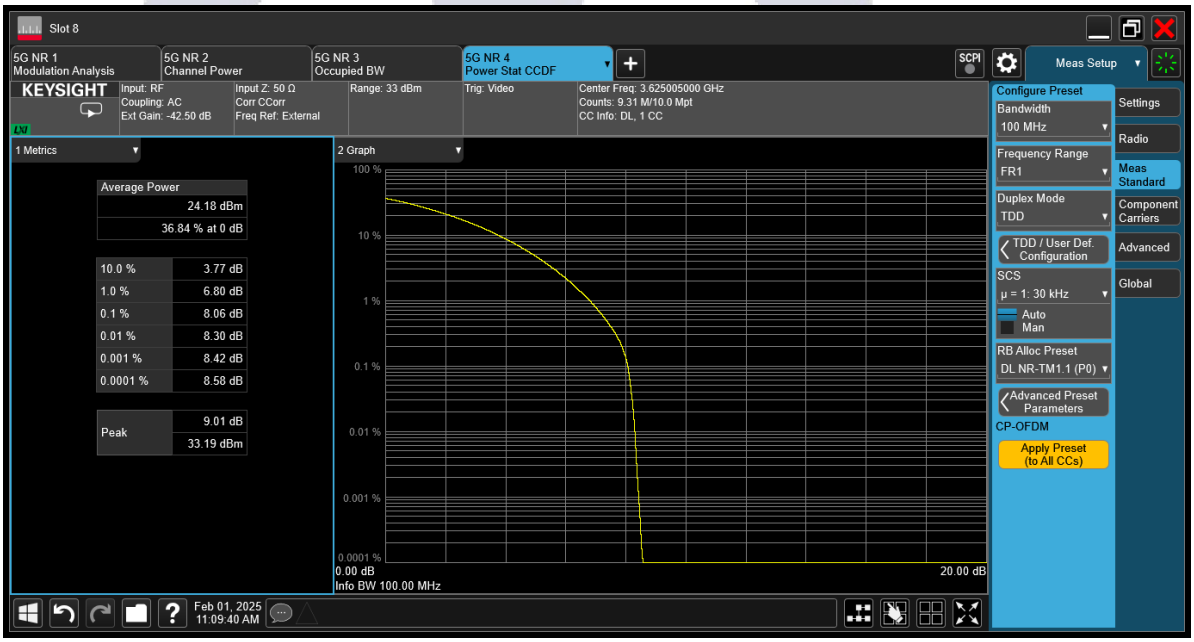
BW:80MHz@3660.000 MHz



BW:100MHz@3600.255 MHz



BW:100MHz@3625.005 MHz



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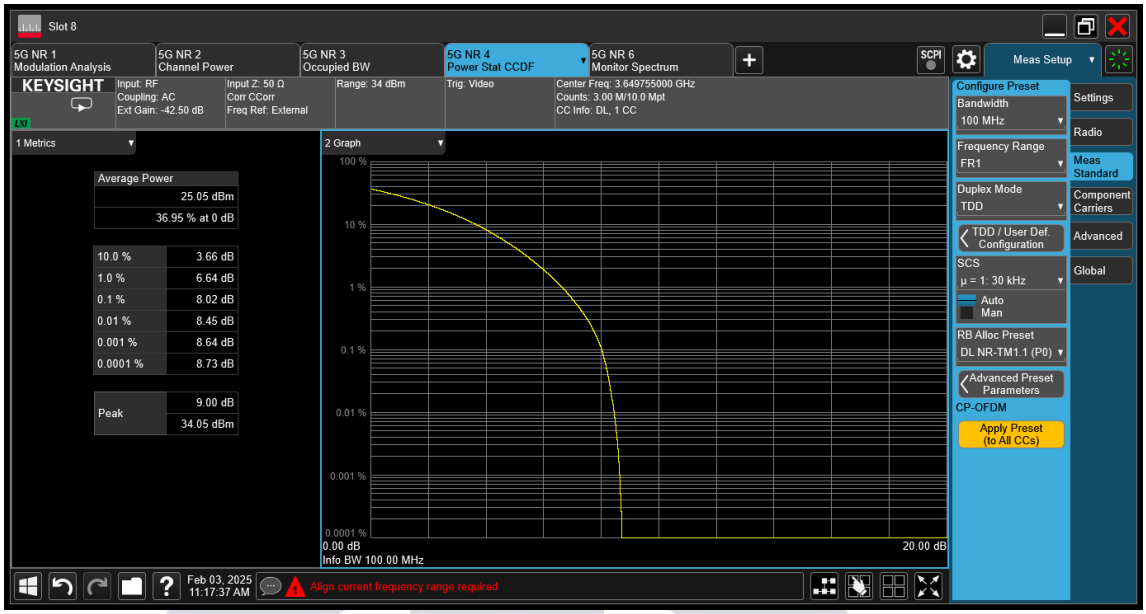
BW:100MHz@3649.755 MHz



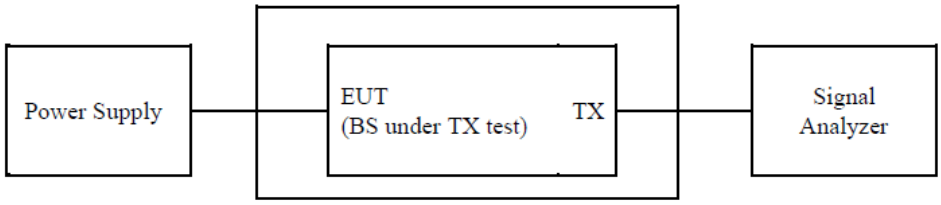
Note:- Testing is carried out in all possible configuration , only worst case plot reported.

1.15 Conducted Spurious Emissions

1.15.1 Limits of Conducted Spurious Emissions Measurement

Power of any emissions outside the Fundamental	Limit
Within 0-10MHz above the Assigned Channel	-13 dBm/MHz
Within 0-10MHz below the Assigned Channel	
Greater than 0-10MHz above the Assigned Channel	-25 dBm/MHz
Greater than 0-10MHz below the Assigned Channel	
Power of any emission below 3530MHz	-40 dBm/MHz
Power of any emission above 3720MHz	

1.15.2 Test Setup



1.15.3 Test Procedure

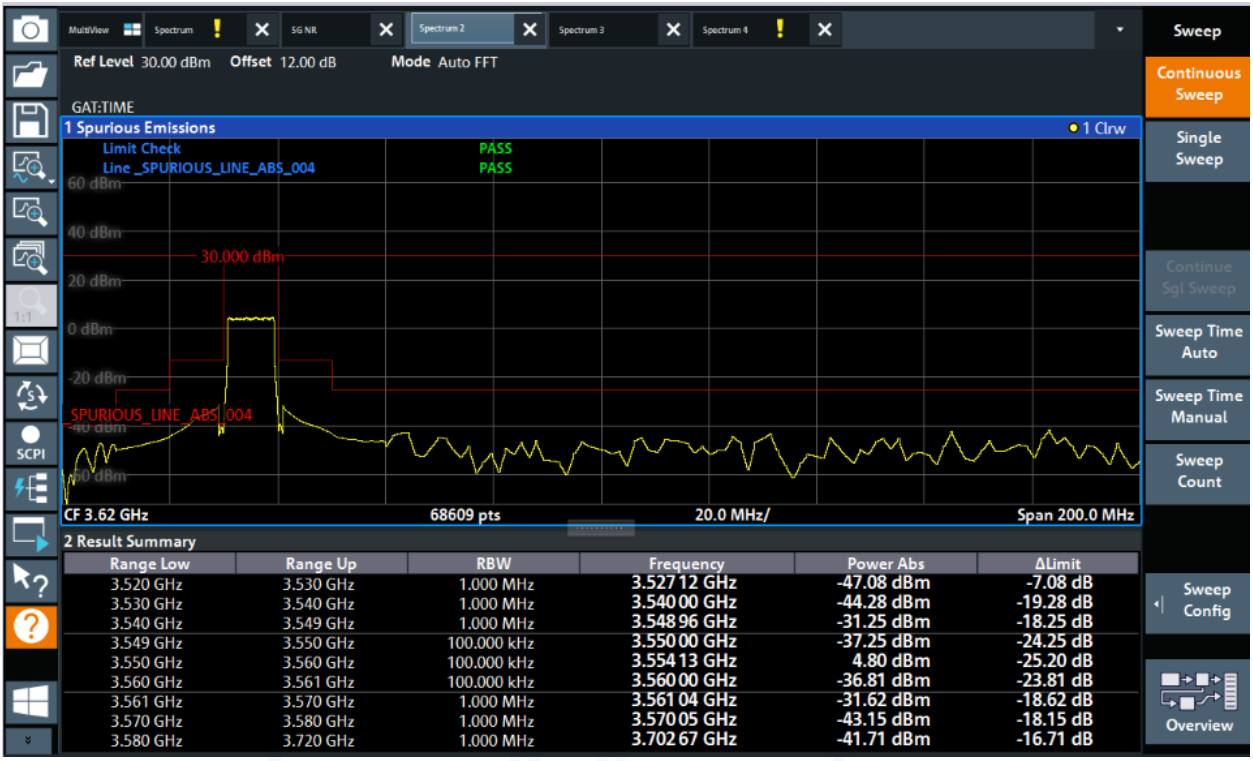
1. Set the analyzer frequency to low or high channel.
2. RBW = 100kHz or 1MHz
3. VBW ≥ 3*RBW
4. Sweep time = auto
5. Detector = power averaging (rms)
6. Set sweep trigger to "free run."
7. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.

SR. NO.	FREQUENCY RANGE	RBW
1.	9KHZ~30MHZ	100KHZ
2.	30MHZ~3GHZ	1MHZ
3.	3GHZ~20GHZ	1MHZ

1.15.4 Test Results

10MHz @3555.72MHz

ANT1



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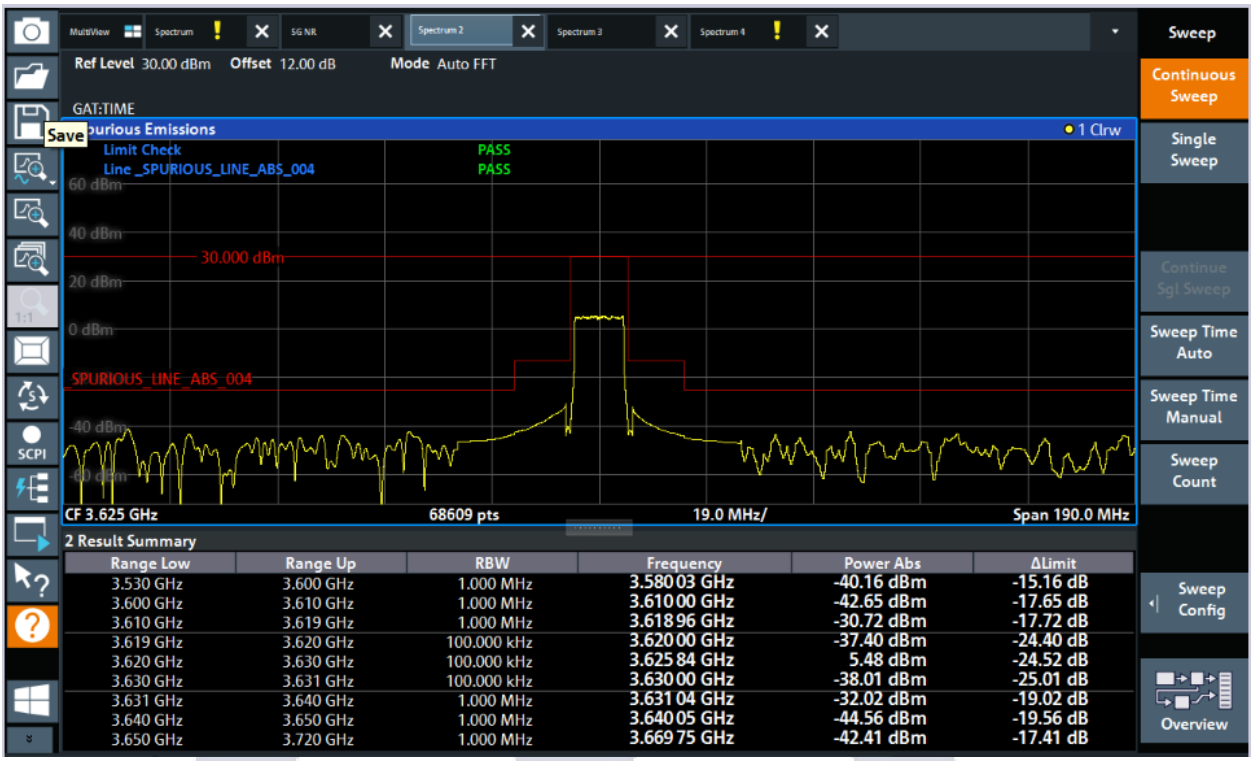
10MHz @3625.005MHz

ANT1



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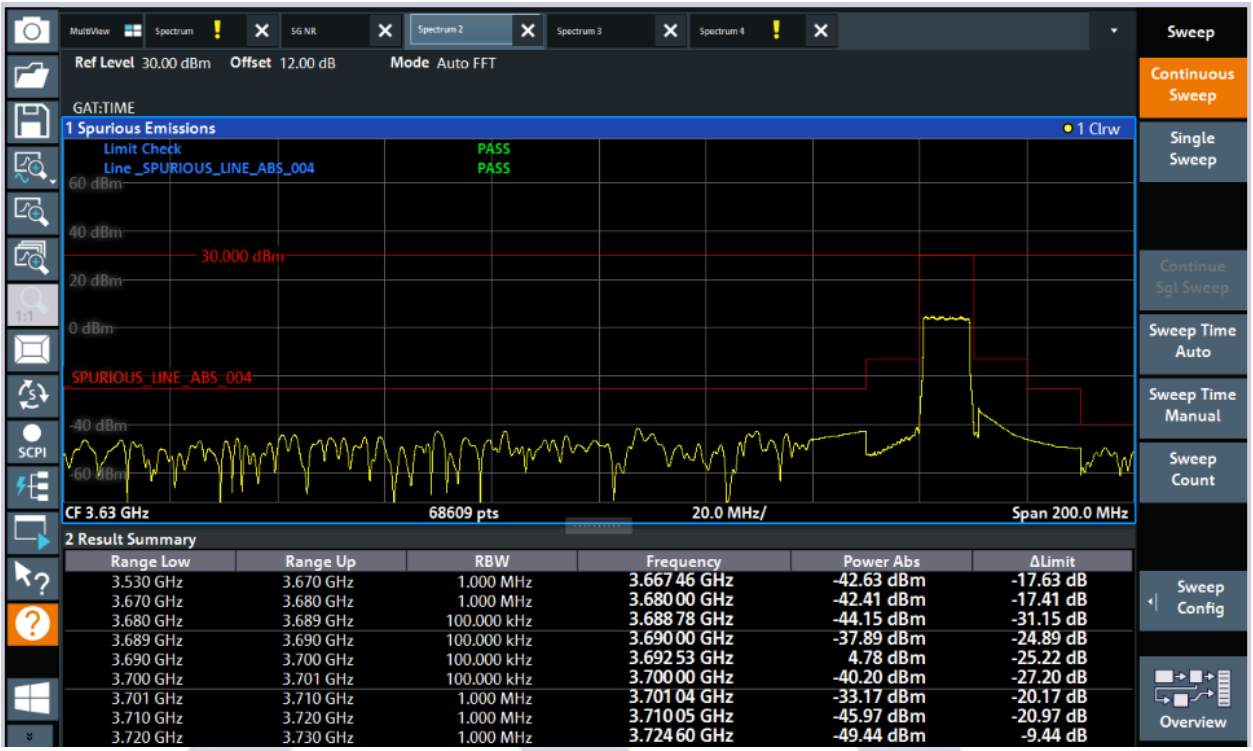
10MHz @3694.29MHz

ANT1



2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.670 GHz	1.000 MHz	3.667 46 GHz	-42.63 dBm	-17.63 dB
3.670 GHz	3.680 GHz	1.000 MHz	3.680 00 GHz	-42.41 dBm	-17.41 dB
3.680 GHz	3.689 GHz	100.000 kHz	3.688 78 GHz	-44.15 dBm	-31.15 dB
3.689 GHz	3.690 GHz	100.000 kHz	3.690 00 GHz	-37.89 dBm	-24.89 dB
3.690 GHz	3.700 GHz	100.000 kHz	3.692 53 GHz	4.78 dBm	-25.22 dB
3.700 GHz	3.701 GHz	100.000 kHz	3.700 00 GHz	-40.20 dBm	-27.20 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.701 04 GHz	-33.17 dBm	-20.17 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.710 05 GHz	-45.97 dBm	-20.97 dB
3.720 GHz	3.730 GHz	1.000 MHz	3.724 60 GHz	-49.44 dBm	-9.44 dB

2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	3.530 GHz	1.000 MHz	2.526 83 MHz	-45.66 dBm	-5.66 dB
3.720 GHz	29.000 GHz	1.000 MHz	7.451 03 GHz	-47.15 dBm	-7.15 dB

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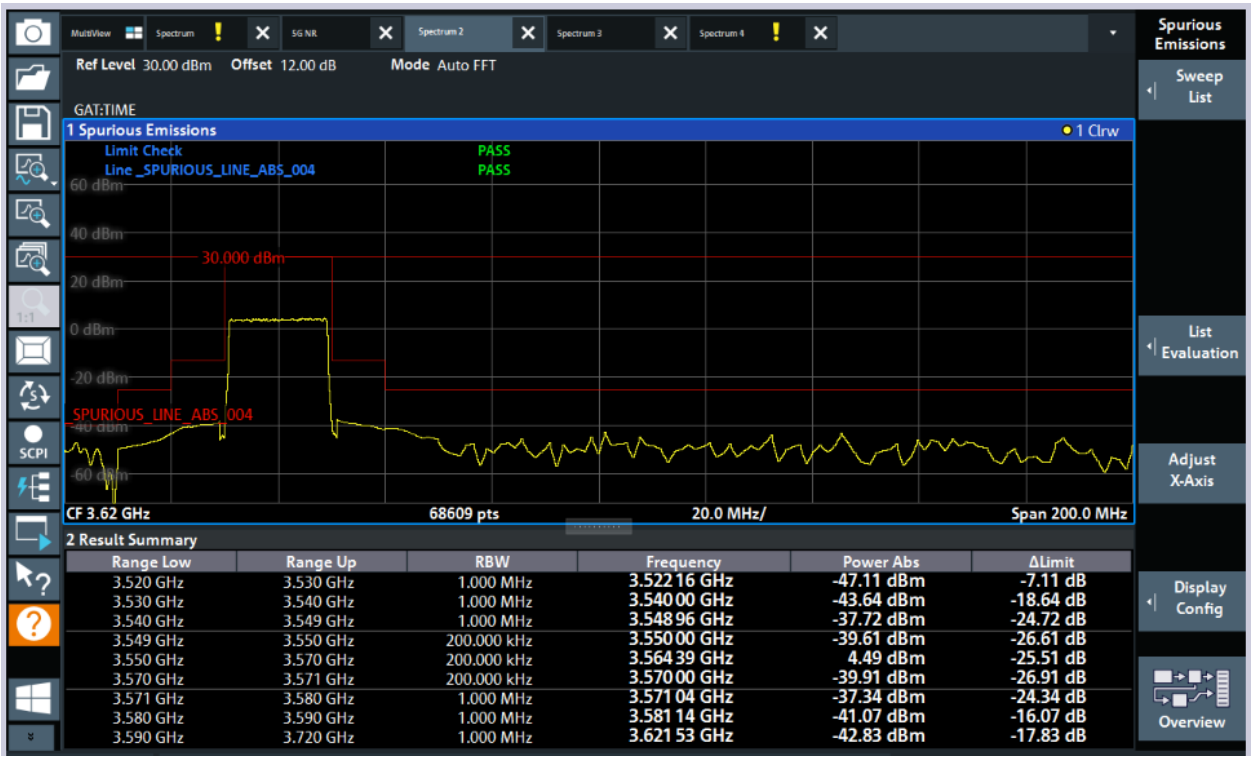
20MHz @3560.01MHz

ANT1



2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.520 GHz	3.530 GHz	1.000 MHz	3.522 16 GHz	-47.11 dBm	-7.11 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.540 00 GHz	-43.64 dBm	-18.64 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.548 96 GHz	-37.72 dBm	-24.72 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.550 00 GHz	-39.61 dBm	-26.61 dB
3.550 GHz	3.570 GHz	200.000 kHz	3.564 39 GHz	4.49 dBm	-25.51 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.570 00 GHz	-39.91 dBm	-26.91 dB
3.571 GHz	3.580 GHz	1.000 MHz	3.571 04 GHz	-37.34 dBm	-24.34 dB
3.580 GHz	3.590 GHz	1.000 MHz	3.581 14 GHz	-41.07 dBm	-16.07 dB
3.590 GHz	3.720 GHz	1.000 MHz	3.621 53 GHz	-42.83 dBm	-17.83 dB

2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	3.530 GHz	1.000 MHz	2.526 83 MHz	-46.41 dBm	-6.41 dB
3.720 GHz	29.000 GHz	1.000 MHz	7.488 94 GHz	-47.07 dBm	-7.07 dB

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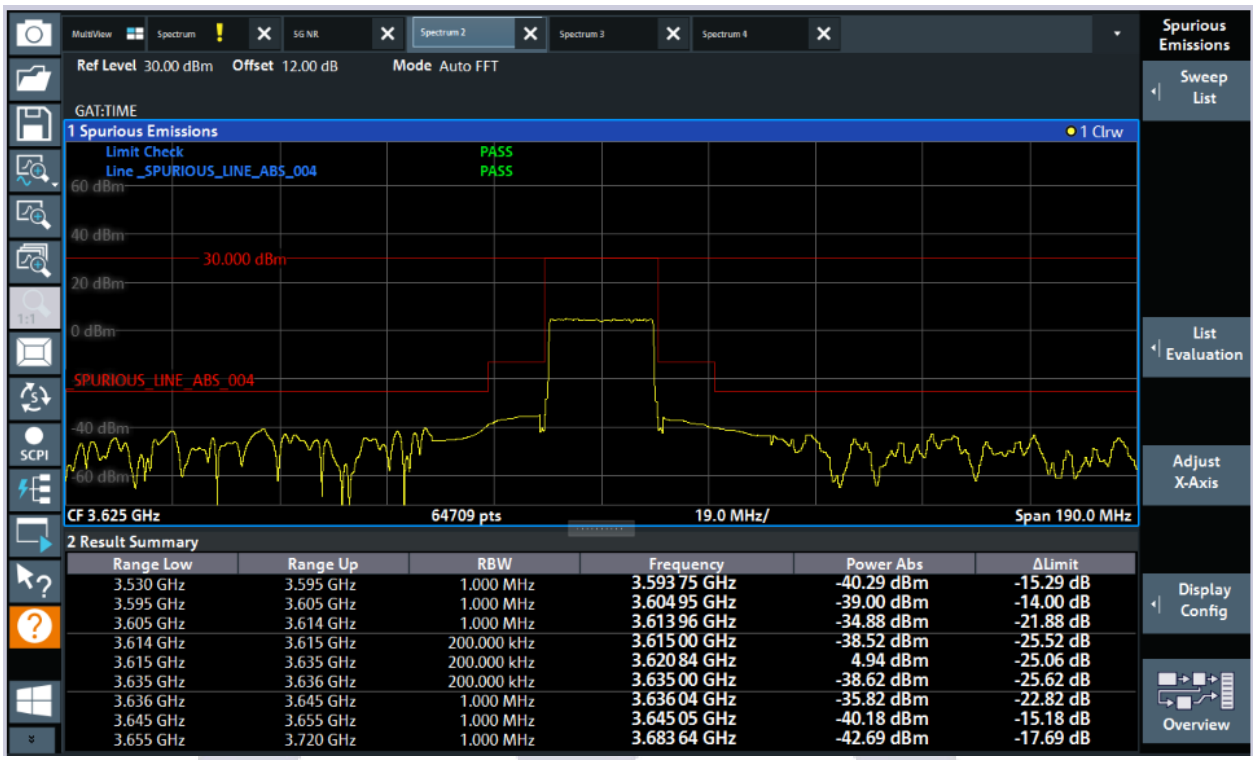
20MHz @3625.005MHz

ANT1



2 Result Summary

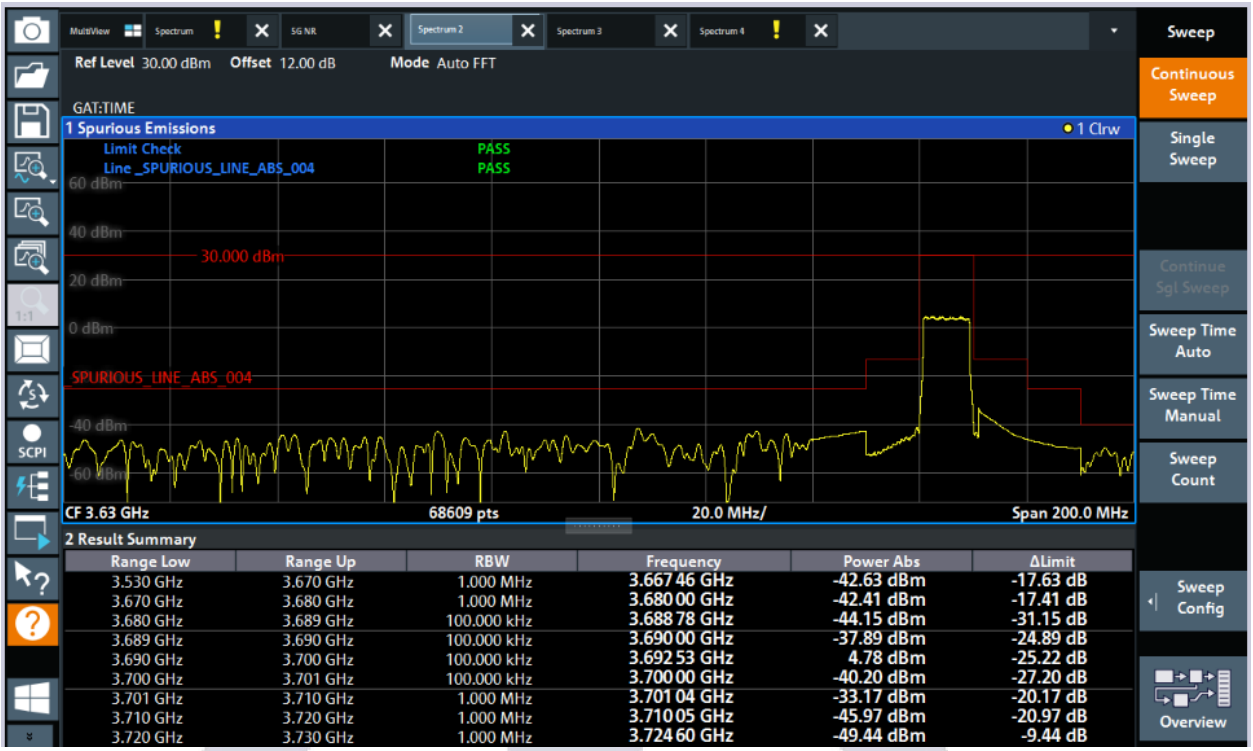
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.595 GHz	1.000 MHz	3.593 75 GHz	-40.29 dBm	-15.29 dB
3.595 GHz	3.605 GHz	1.000 MHz	3.604 95 GHz	-39.00 dBm	-14.00 dB
3.605 GHz	3.614 GHz	1.000 MHz	3.613 96 GHz	-34.88 dBm	-21.88 dB
3.614 GHz	3.615 GHz	200.000 kHz	3.615 00 GHz	-38.52 dBm	-25.52 dB
3.615 GHz	3.635 GHz	200.000 kHz	3.620 84 GHz	4.94 dBm	-25.06 dB
3.635 GHz	3.636 GHz	200.000 kHz	3.635 00 GHz	-38.62 dBm	-25.62 dB
3.636 GHz	3.645 GHz	1.000 MHz	3.636 04 GHz	-35.82 dBm	-22.82 dB
3.645 GHz	3.655 GHz	1.000 MHz	3.645 05 GHz	-40.18 dBm	-15.18 dB
3.655 GHz	3.720 GHz	1.000 MHz	3.683 64 GHz	-42.69 dBm	-17.69 dB

2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	3.530 GHz	1.000 MHz	2.526 83 MHz	-47.36 dBm	-7.36 dB
3.720 GHz	29.000 GHz	1.000 MHz	7.495 26 GHz	-47.10 dBm	-7.10 dB

20MHz @3690MHz

ANT1



2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.670 GHz	1.000 MHz	3.667 46 GHz	-42.63 dBm	-17.63 dB
3.670 GHz	3.680 GHz	1.000 MHz	3.680 00 GHz	-42.41 dBm	-17.41 dB
3.680 GHz	3.689 GHz	100.000 kHz	3.688 78 GHz	-44.15 dBm	-31.15 dB
3.689 GHz	3.690 GHz	100.000 kHz	3.690 00 GHz	-37.89 dBm	-24.89 dB
3.690 GHz	3.700 GHz	100.000 kHz	3.692 53 GHz	4.78 dBm	-25.22 dB
3.700 GHz	3.701 GHz	100.000 kHz	3.700 00 GHz	-40.20 dBm	-27.20 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.701 04 GHz	-33.17 dBm	-20.17 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.710 05 GHz	-45.97 dBm	-20.97 dB
3.720 GHz	3.730 GHz	1.000 MHz	3.724 60 GHz	-49.44 dBm	-9.44 dB

2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	3.530 GHz	1.000 MHz	2.526 83 MHz	-45.66 dBm	-5.66 dB
3.720 GHz	29.000 GHz	1.000 MHz	7.451 03 GHz	-47.15 dBm	-7.15 dB

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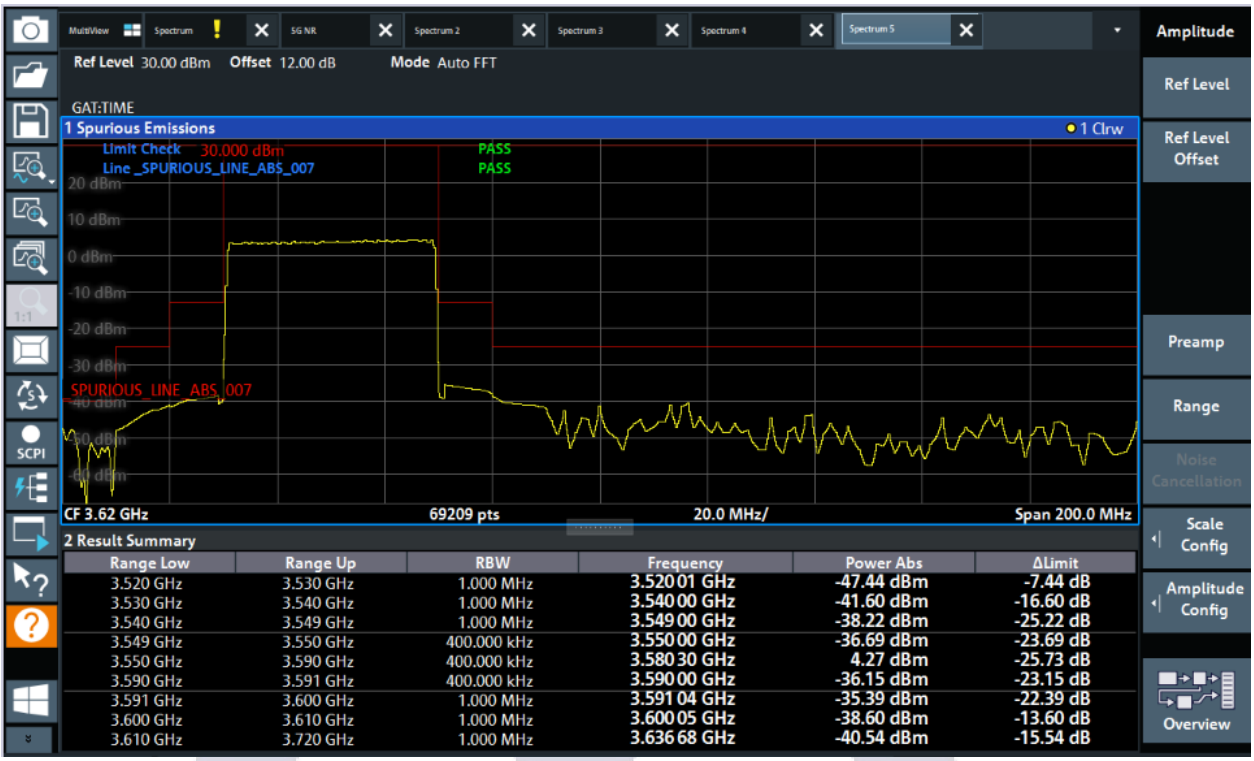
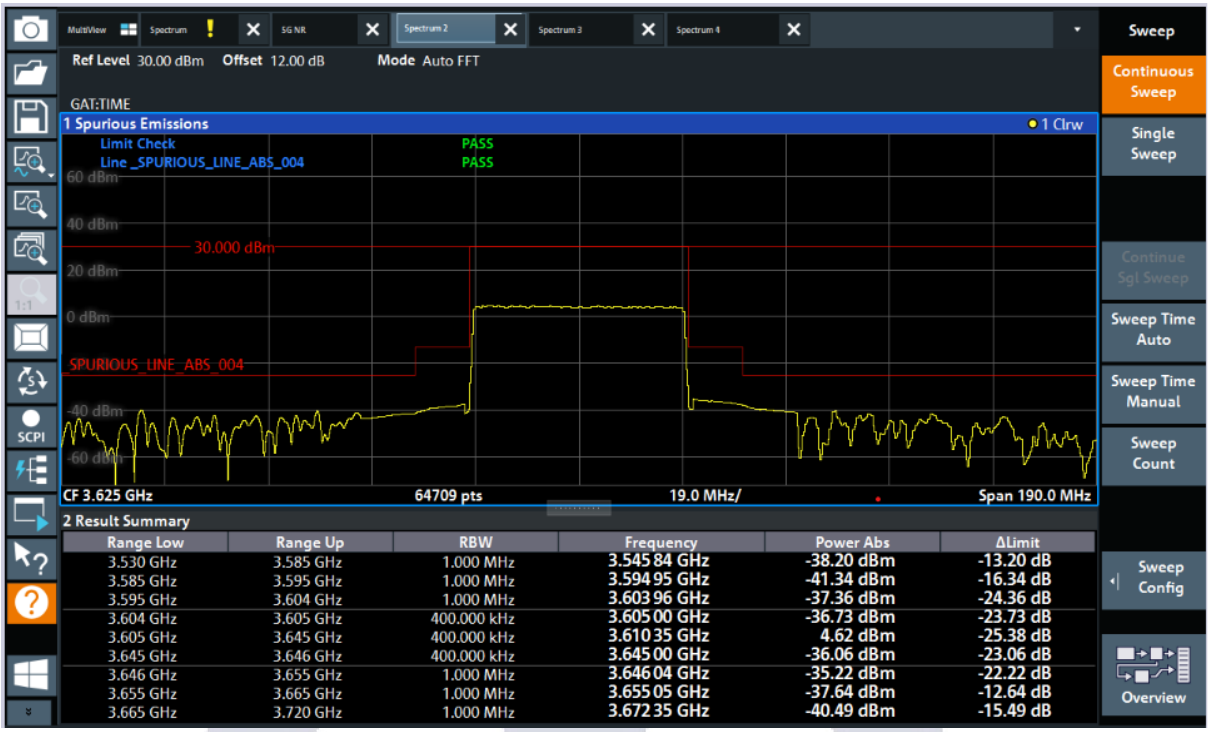
40MHz @3570.24MHz

ANT1



40MHz @3625.005MHz

ANT1



2 Result Summary

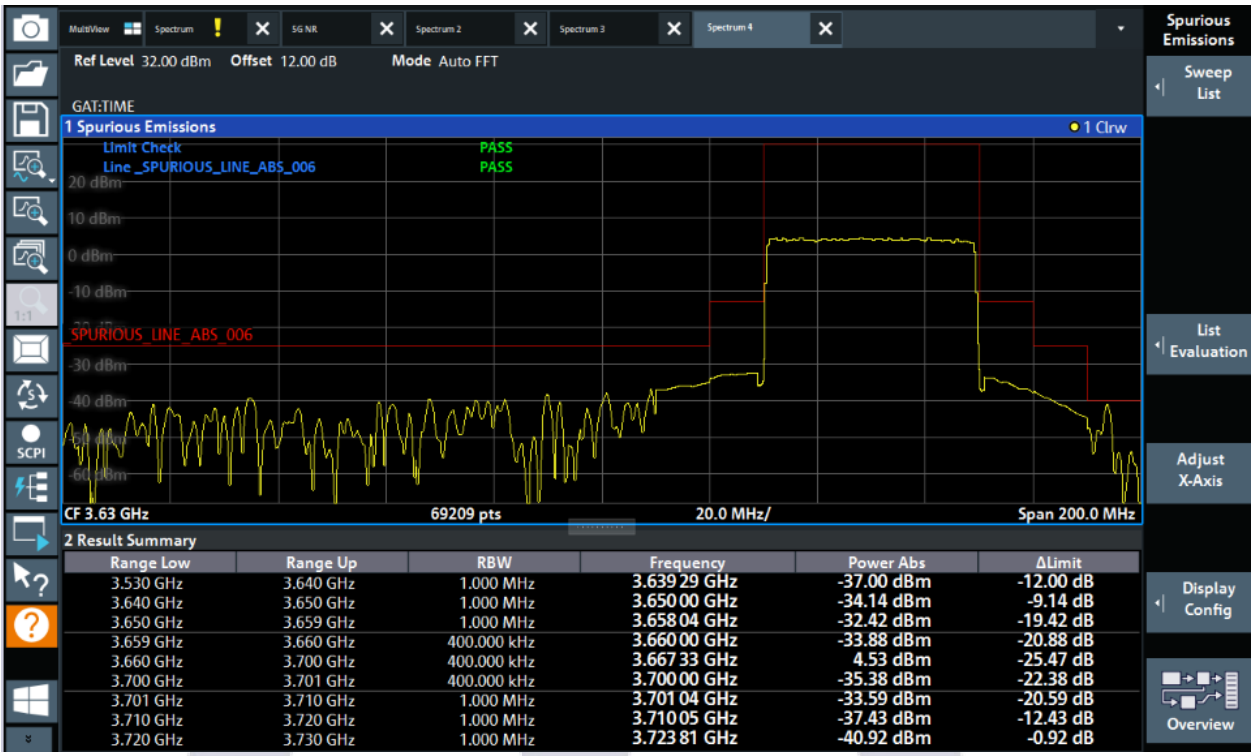
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.585 GHz	1.000 MHz	3.545 84 GHz	-38.20 dBm	-13.20 dB
3.585 GHz	3.595 GHz	1.000 MHz	3.594 95 GHz	-41.34 dBm	-16.34 dB
3.595 GHz	3.604 GHz	1.000 MHz	3.603 96 GHz	-37.36 dBm	-24.36 dB
3.604 GHz	3.605 GHz	400.000 kHz	3.605 00 GHz	-36.73 dBm	-23.73 dB
3.605 GHz	3.645 GHz	400.000 kHz	3.610 35 GHz	4.62 dBm	-25.38 dB
3.645 GHz	3.646 GHz	400.000 kHz	3.645 00 GHz	-36.06 dBm	-23.06 dB
3.646 GHz	3.655 GHz	1.000 MHz	3.646 04 GHz	-35.22 dBm	-22.22 dB
3.655 GHz	3.665 GHz	1.000 MHz	3.655 05 GHz	-37.64 dBm	-12.64 dB
3.665 GHz	3.720 GHz	1.000 MHz	3.672 35 GHz	-40.49 dBm	-15.49 dB

2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	3.530 GHz	1.000 MHz	2.526 83 MHz	-46.59 dBm	-6.59 dB
3.720 GHz	29.000 GHz	1.000 MHz	7.444 71 GHz	-47.29 dBm	-7.29 dB

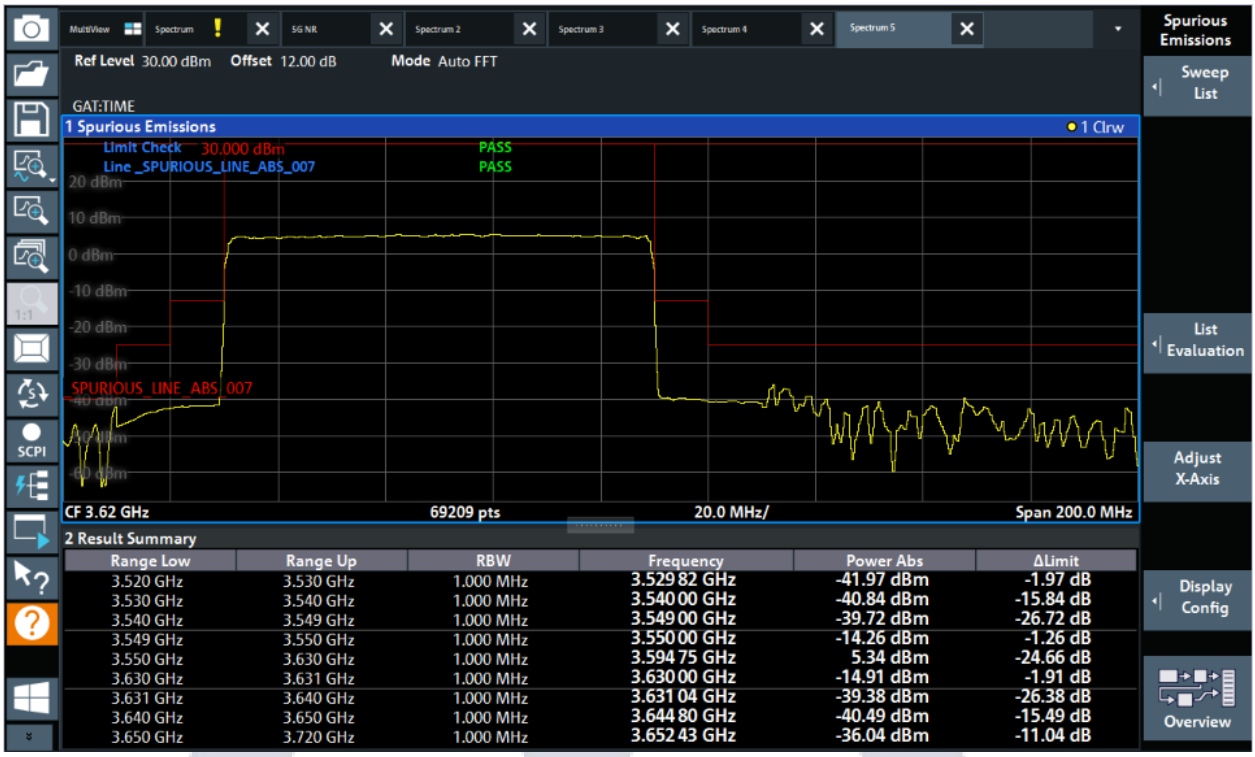
40MHz @3679.755MHz

ANT1



80MHz @3590.025MHz

ANT1



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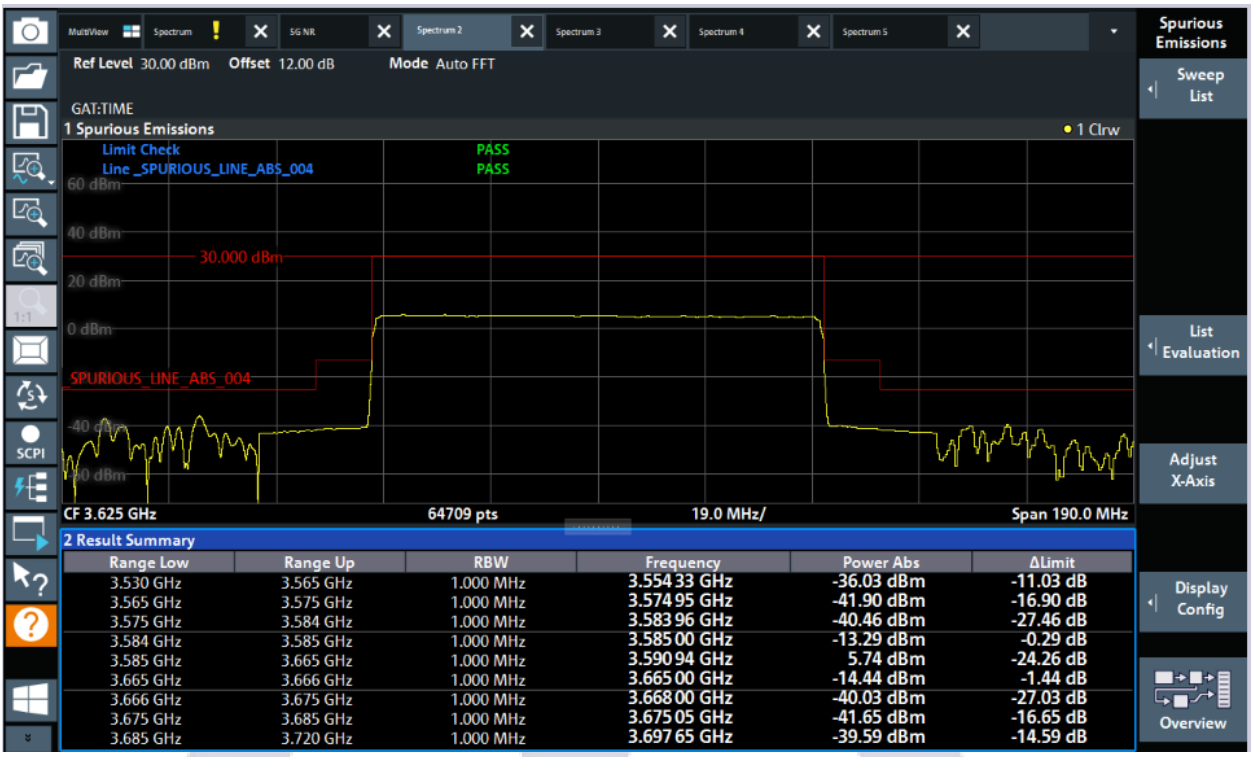
80MHz @3625.005MHz

ANT1



2 Result Summary

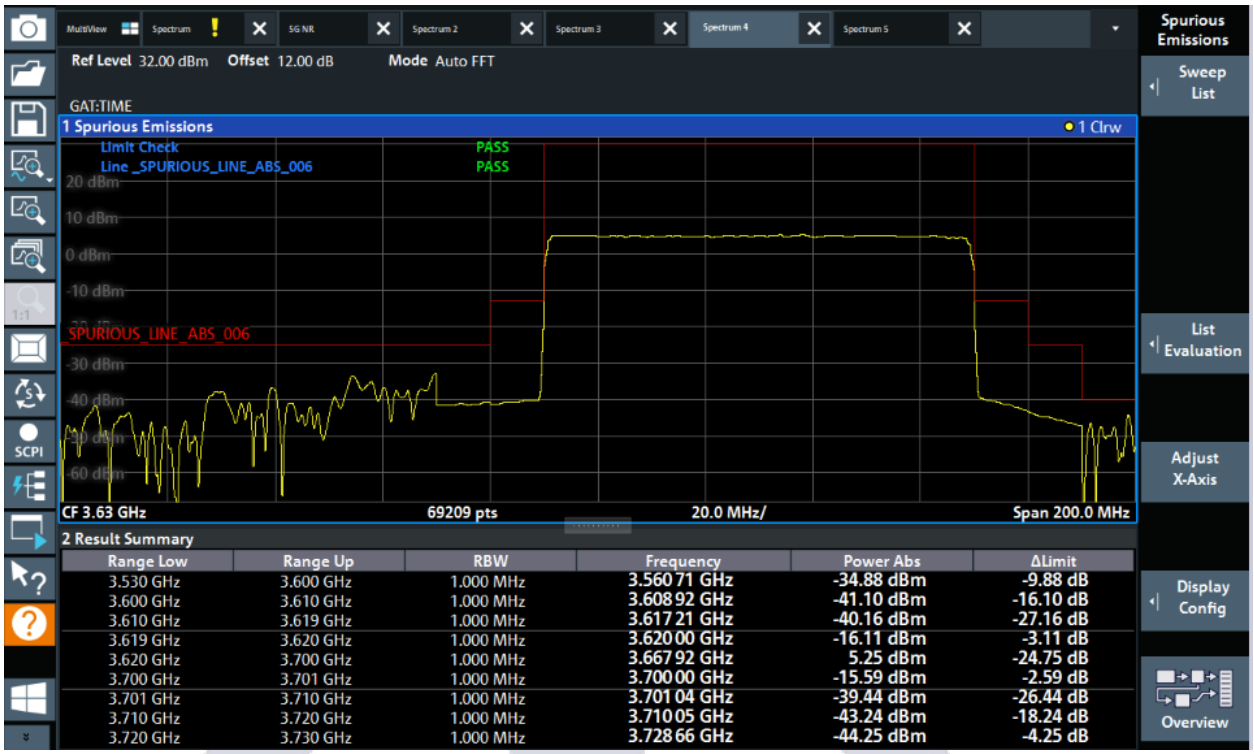
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.565 GHz	1.000 MHz	3.554 33 GHz	-36.03 dBm	-11.03 dB
3.565 GHz	3.575 GHz	1.000 MHz	3.574 95 GHz	-41.90 dBm	-16.90 dB
3.575 GHz	3.584 GHz	1.000 MHz	3.583 96 GHz	-40.46 dBm	-27.46 dB
3.584 GHz	3.585 GHz	1.000 MHz	3.585 00 GHz	-13.29 dBm	-0.29 dB
3.585 GHz	3.665 GHz	1.000 MHz	3.590 94 GHz	5.74 dBm	-24.26 dB
3.665 GHz	3.666 GHz	1.000 MHz	3.665 00 GHz	-14.44 dBm	-1.44 dB
3.666 GHz	3.675 GHz	1.000 MHz	3.668 00 GHz	-40.03 dBm	-27.03 dB
3.675 GHz	3.685 GHz	1.000 MHz	3.675 05 GHz	-41.65 dBm	-16.65 dB
3.685 GHz	3.720 GHz	1.000 MHz	3.697 65 GHz	-39.59 dBm	-14.59 dB

2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	3.530 GHz	1.000 MHz	2.526 83 MHz	-47.03 dBm	-7.03 dB
3.720 GHz	29.000 GHz	1.000 MHz	7.482 62 GHz	-47.10 dBm	-7.10 dB

80MHz @3660MHz

ANT1



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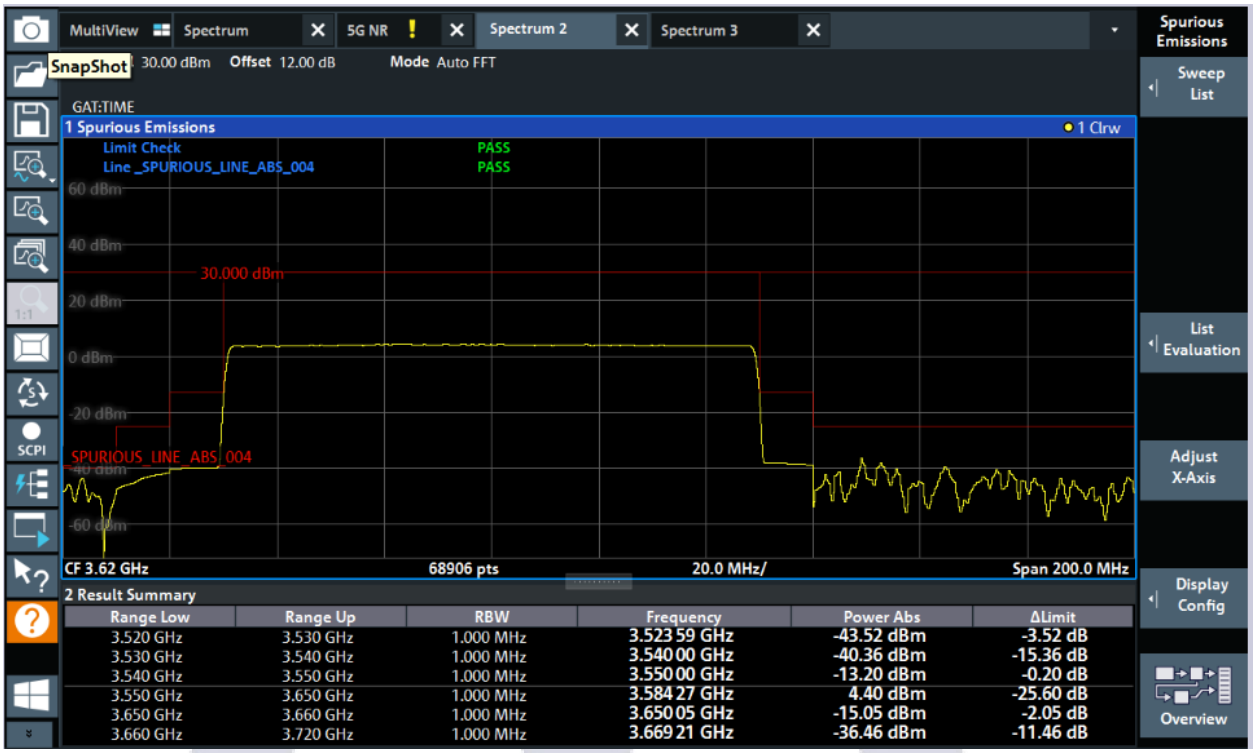
100MHz @3600.255MHz

ANT1



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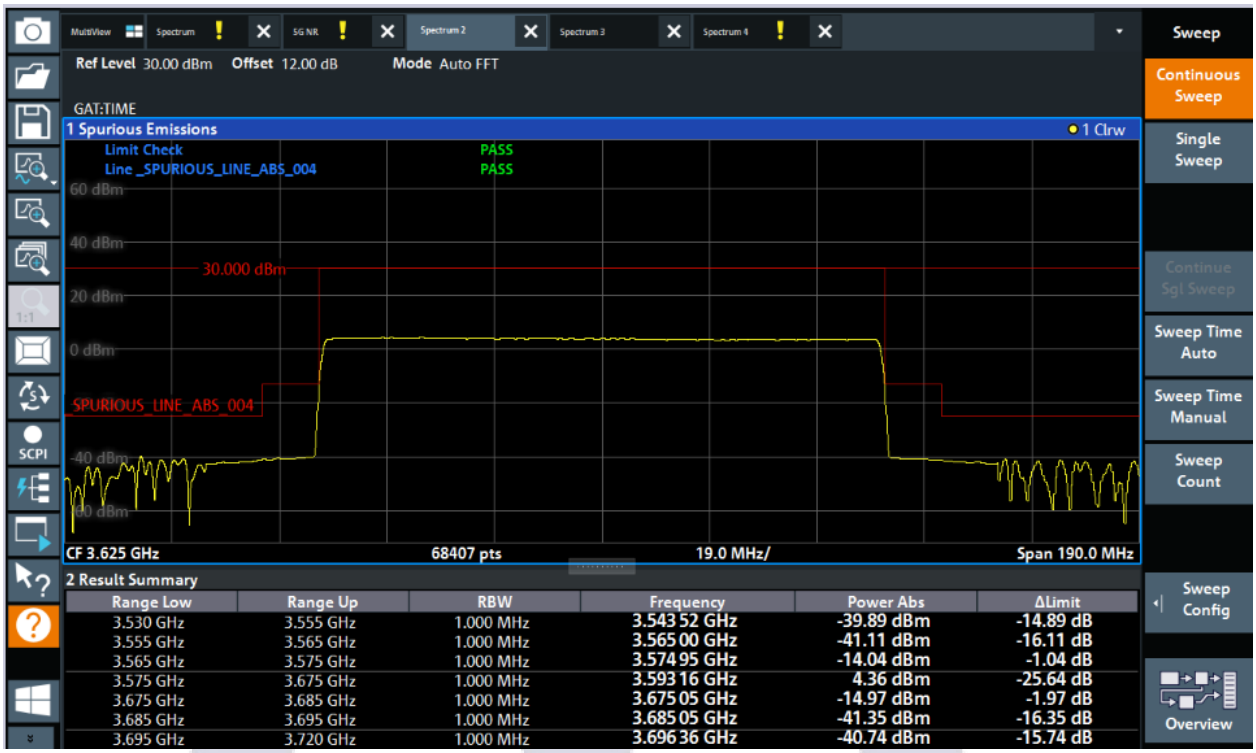
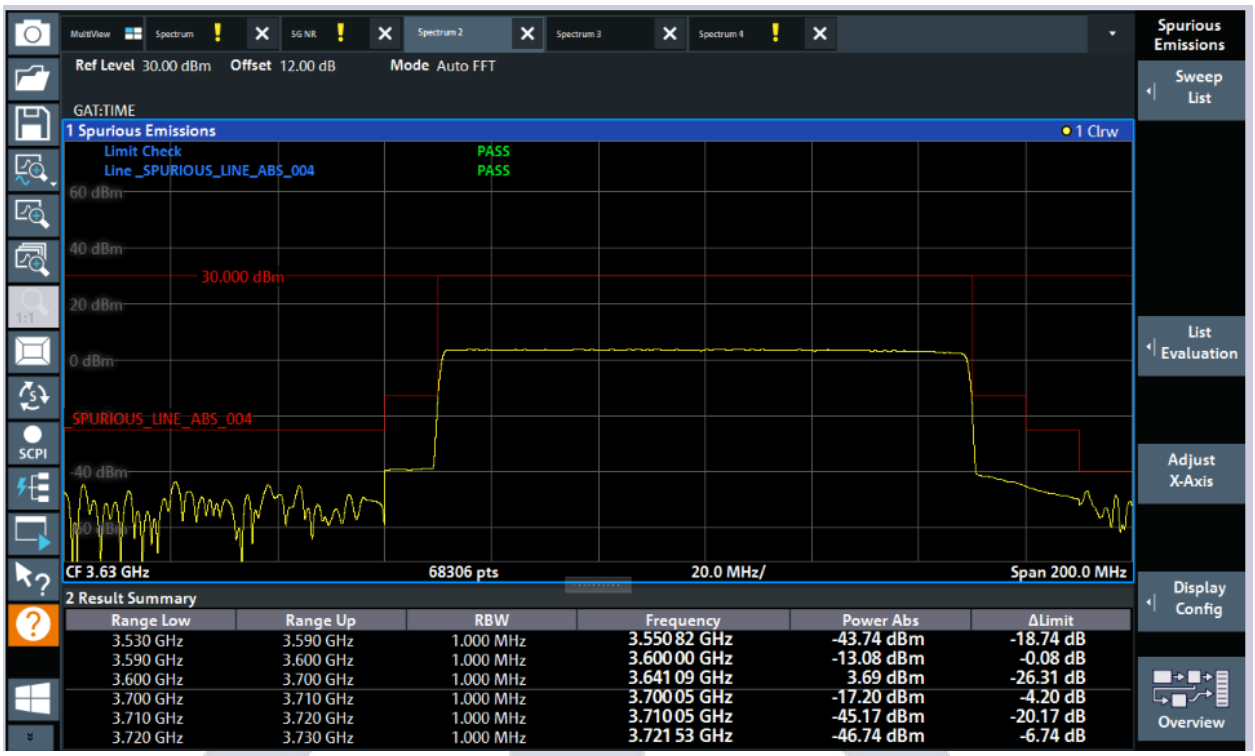
100MHz @3625.005MHz

ANT1



100MHz @3649.755MHz

ANT1



Note:-All the configuration tested but worst case is reported.

1.16 Radiated Spurious Emission

1.16.1 Limits of Radiated Emission Measurement

The power of any emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz.

E (dbμv/m) = eirp (dbm) - 20 log d + 104.8; where d is the measurement distance in meters.

The emission limit equal to 55.25dBμv/m.

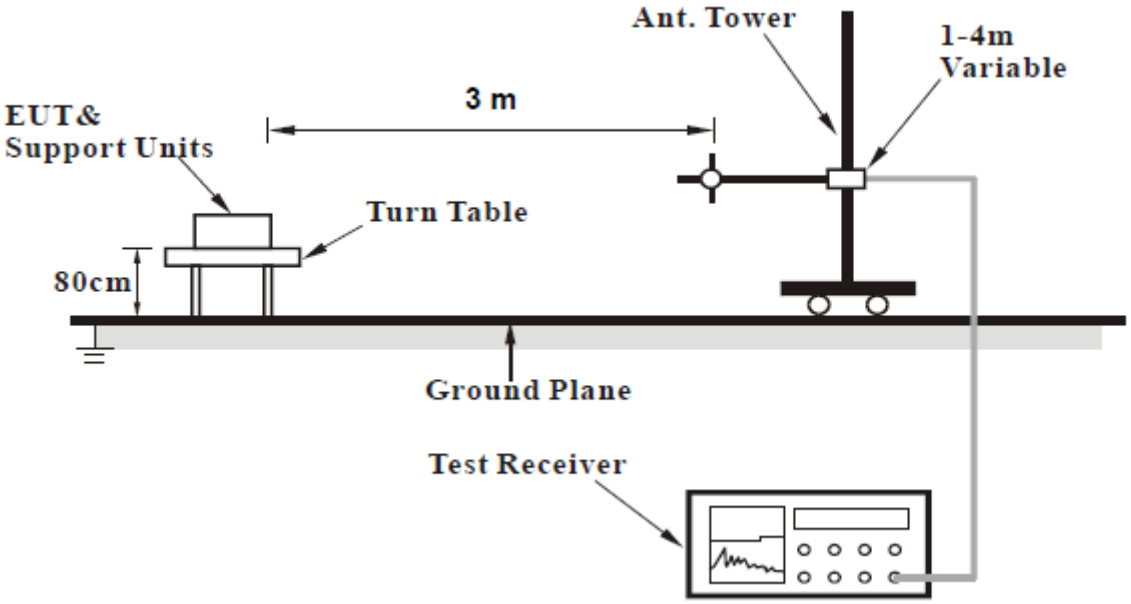
1.16.2 Test Procedure

1. Substitution method is used for e.i.r.p measurement. In the semi-anechoic chamber, eut placed on the 0.8 m (below or equal 1 ghz) and/or 1.5 m (above 1 ghz) height of turn table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "read value" is the spectrum reading the maximum power value.
2. The substitution horn antenna is substituted for eut at the same position and signals generator export the cw signal to the substitution antenna via a tx cable. Rotated the turn table and moved receiving antenna to find the maximum radiation power. Adjust output power level of s.g to get a value of spectrum reading equal to "read value" of step a. Record the power level of s.g.
3. Eirp = output power level of s.g – tx cable loss + antenna gain
4. E.r.p power can be calculated form e.i.r.p power by subtracting the gain of dipole, e.r.p power = e.i.r.p power - 2.15 db

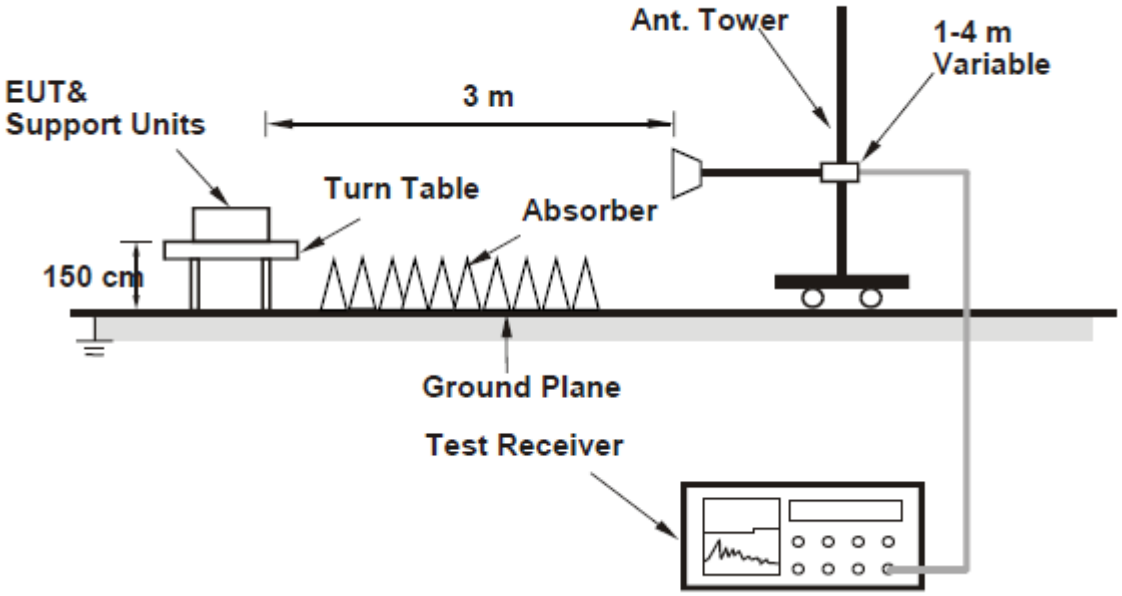
Note: the resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 mhz/3 mhz.

1.16.3 Test Setup

<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



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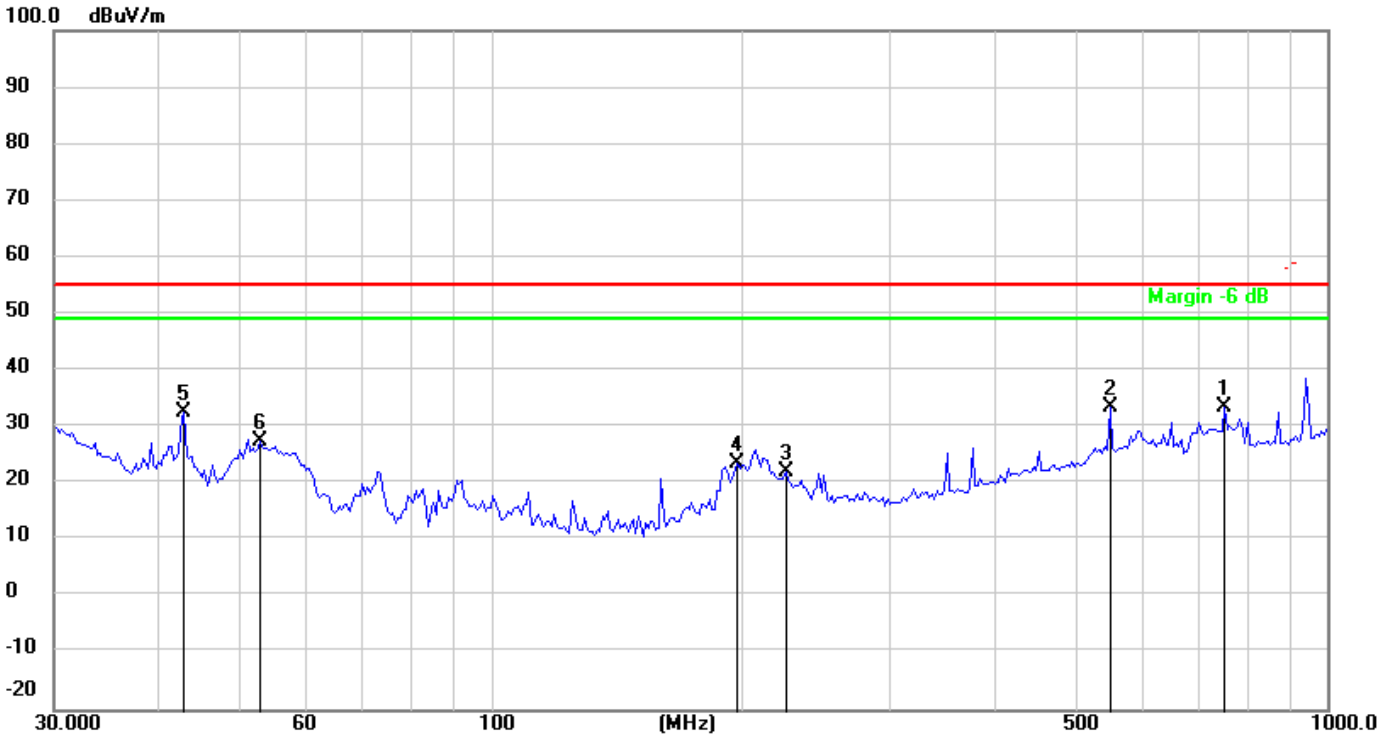
1.16.4 Test Results

Channel Bandwidth: 100MHz

3600.255MHz

Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	754.9627	-1.59	35.19	33.60	55.25	-21.65	peak
2	550.2902	-4.79	38.32	33.53	55.25	-21.72	peak
3	225.4267	-12.22	34.23	22.01	55.25	-33.24	peak
4	197.2512	-13.57	37.33	23.76	55.25	-31.49	peak
5	42.9305	-17.57	50.14	32.57	55.25	-22.68	peak
6	53.0056	-14.89	42.45	27.56	55.25	-27.69	peak

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Horizontal

No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	452.0011	-3.85	33.89	30.04	55.25	-25.21	peak
2	135.9162	-14.45	33.66	19.21	55.25	-36.04	peak
3	73.2330	-15.50	36.15	20.65	55.25	-34.60	peak
4	51.1754	-12.86	42.20	29.34	55.25	-25.91	peak
5	42.6298	-15.69	42.54	26.85	55.25	-28.40	peak
6	804.2522	1.03	35.40	36.43	55.25	-18.82	peak

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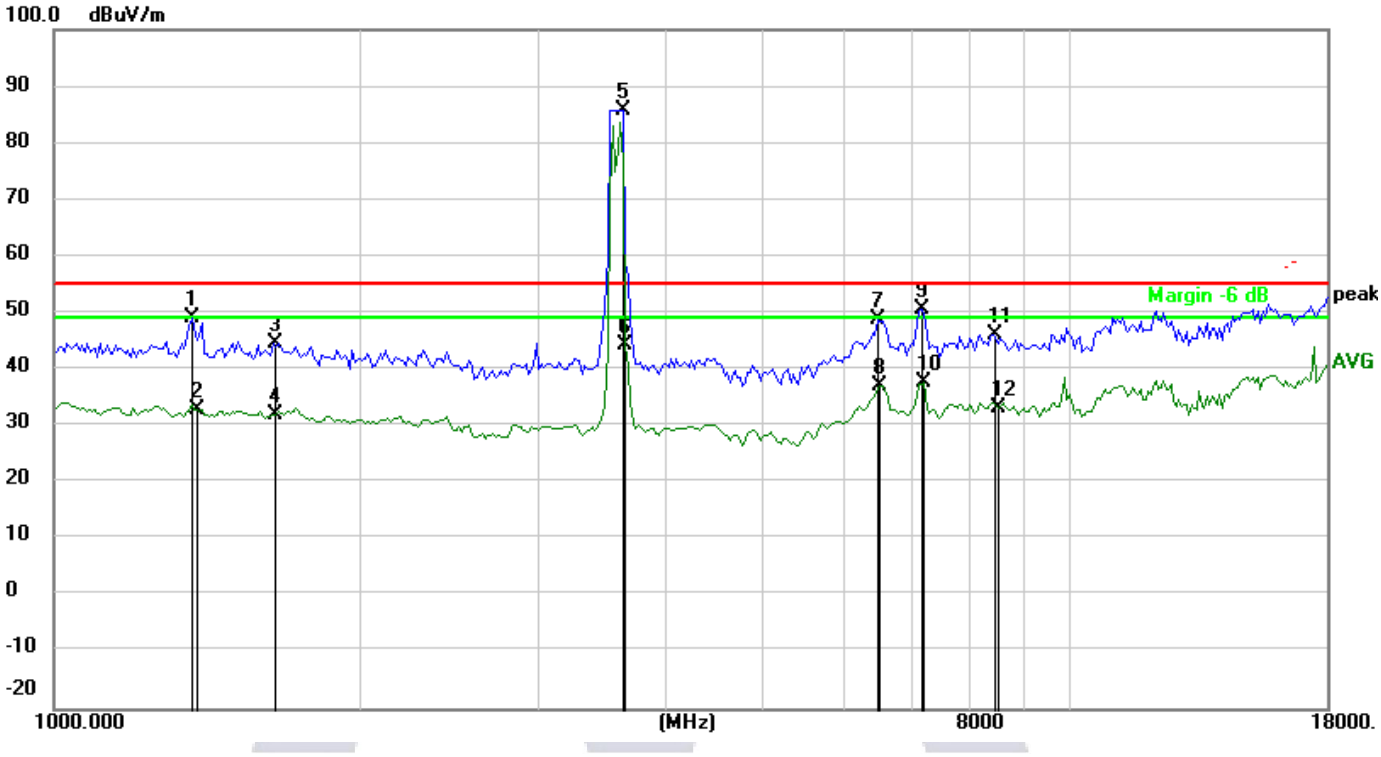
Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1367.228	-4.29	53.36	49.07	55.25	-6.18	peak
2	1383.159	-4.30	37.22	32.92	55.25	-22.33	AVG
3	1645.658	-3.80	48.42	44.62	55.25	-10.63	peak
4	1655.217	-3.79	35.78	31.99	55.25	-23.26	AVG
5	3638.928	-0.92	86.76	85.84	55.25	30.59	peak
6	3660.067	-0.88	45.09	44.21	55.25	-11.04	AVG
7	6494.281	8.59	40.19	48.78	55.25	-6.47	peak
8	6532.007	-5.03	42.25	37.22	55.25	-18.03	AVG
9	7166.315	3.55	47.16	50.71	55.25	-4.54	peak
10	7207.945	3.58	34.29	37.87	55.25	-17.38	AVG
11	8428.146	3.90	42.23	46.13	55.25	-9.12	peak
12	8526.350	3.82	29.53	33.35	55.25	-21.90	AVG

Note:- Marker 5 is desired intentional frequency, Hence considered as PASS.

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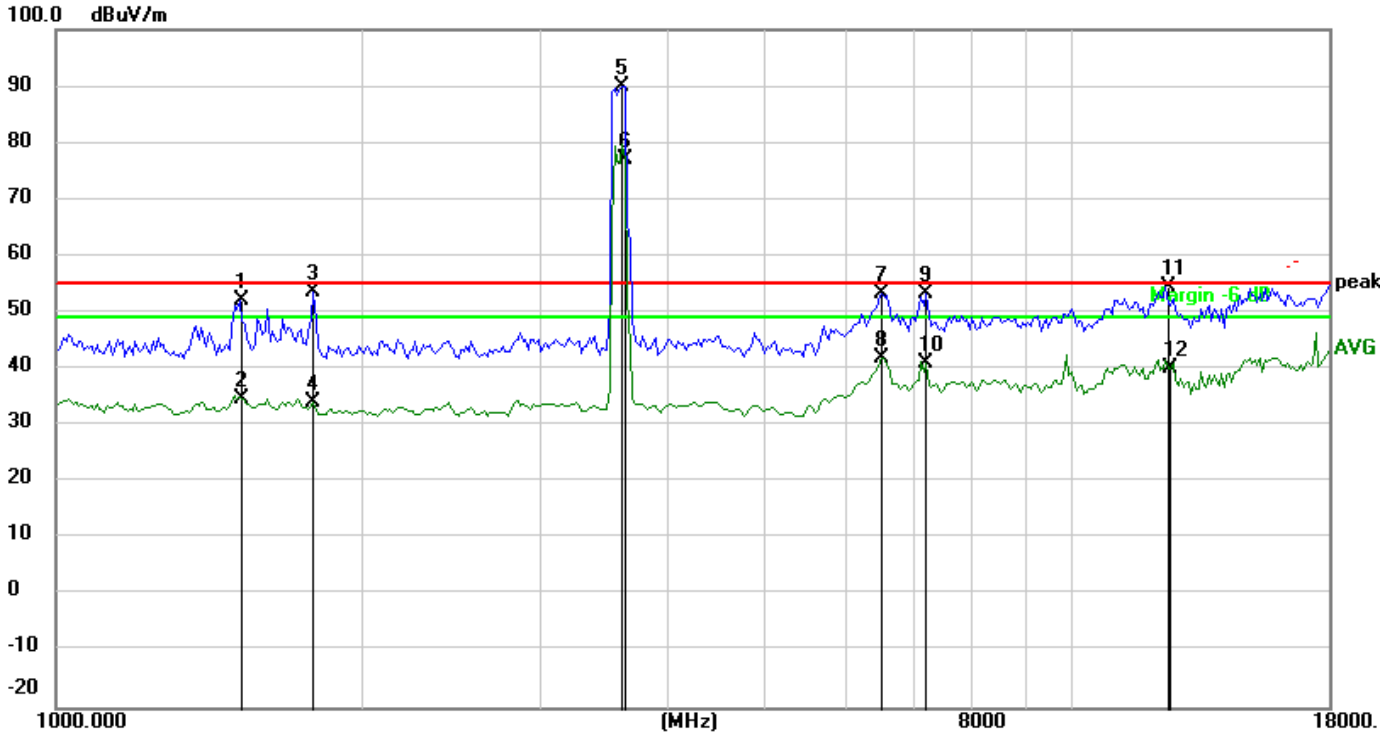
Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1517.475	22.13	29.92	52.05	55.25	-3.20	peak
2	1526.290	22.14	12.60	34.74	55.25	-20.51	AVG
3	1795.036	22.49	31.02	53.51	55.25	-1.74	peak
4	1795.036	22.49	11.71	34.20	55.25	-21.05	AVG
5	3600.000	29.12	60.69	89.81	55.25	34.56	peak
6	3638.928	29.24	47.83	77.07	55.25	21.82	AVG
7	6532.007	29.99	23.30	53.29	55.25	-1.96	peak
8	6532.007	29.99	11.84	41.83	55.25	-13.42	AVG
9	7207.945	39.75	13.60	53.35	55.25	-1.90	peak
10	7207.945	39.75	1.25	41.00	55.25	-14.25	AVG
11	12424.406	47.61	6.91	54.52	55.25	-0.73	peak
12	12496.581	47.70	-7.55	40.15	55.25	-15.10	AVG

Note:- Marker 5 is desired intentional frequency, Hence considered as PASS.

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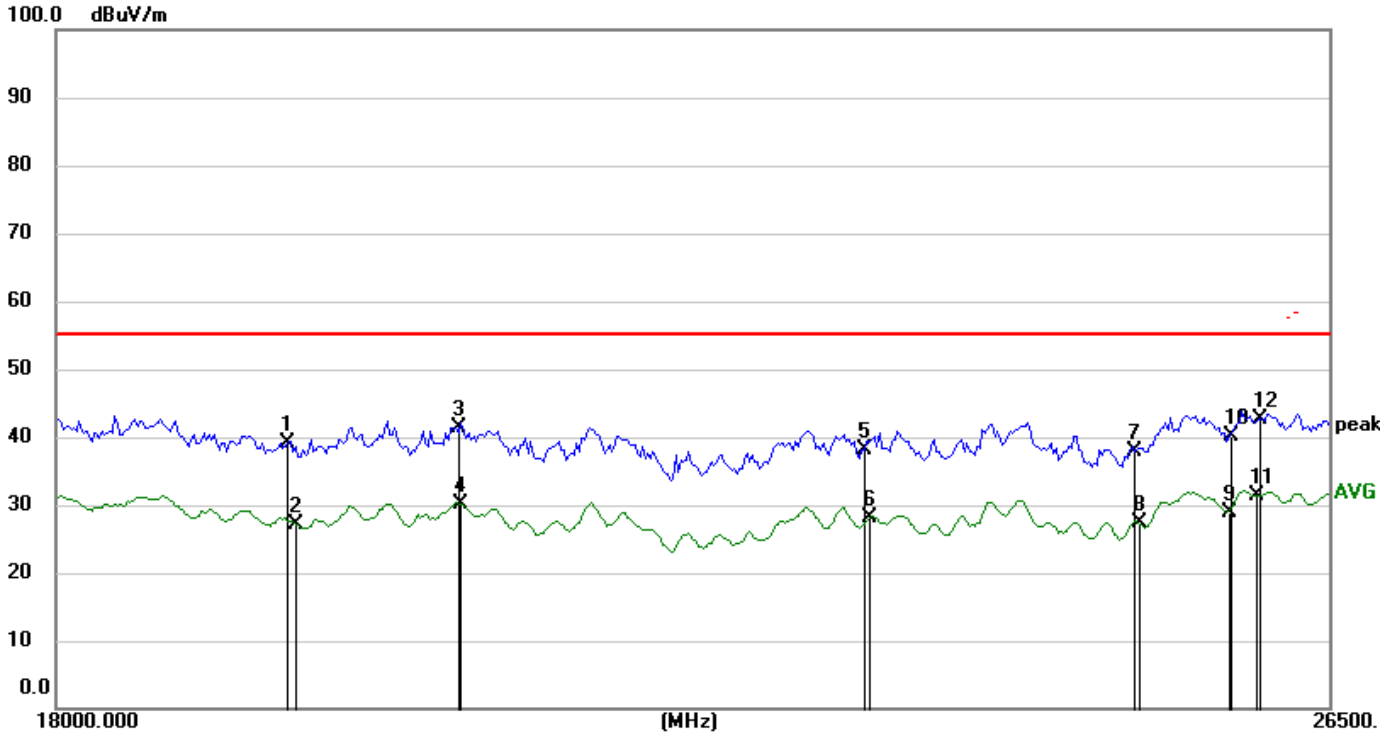
Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	19315.454	0.02	38.99	39.01	55.25	-16.24	peak
2	19360.420	0.04	27.10	27.14	55.25	-28.11	AVG
3	20329.273	0.35	40.92	41.27	55.25	-13.98	peak
4	20360.811	0.36	29.85	30.21	55.25	-25.04	AVG
5	22995.583	1.54	36.58	38.12	55.25	-17.13	peak
6	23049.116	1.55	26.48	28.03	55.25	-27.22	AVG
7	24984.045	2.09	35.86	37.95	55.25	-17.30	peak
8	25003.418	2.09	25.31	27.40	55.25	-27.85	AVG
9	25691.004	2.21	26.70	28.91	55.25	-26.34	AVG
10	25710.925	2.23	38.01	40.24	55.25	-15.01	peak
11	25931.074	2.27	29.08	31.35	55.25	-23.90	AVG
12	25951.181	2.27	40.37	42.64	55.25	-12.61	peak

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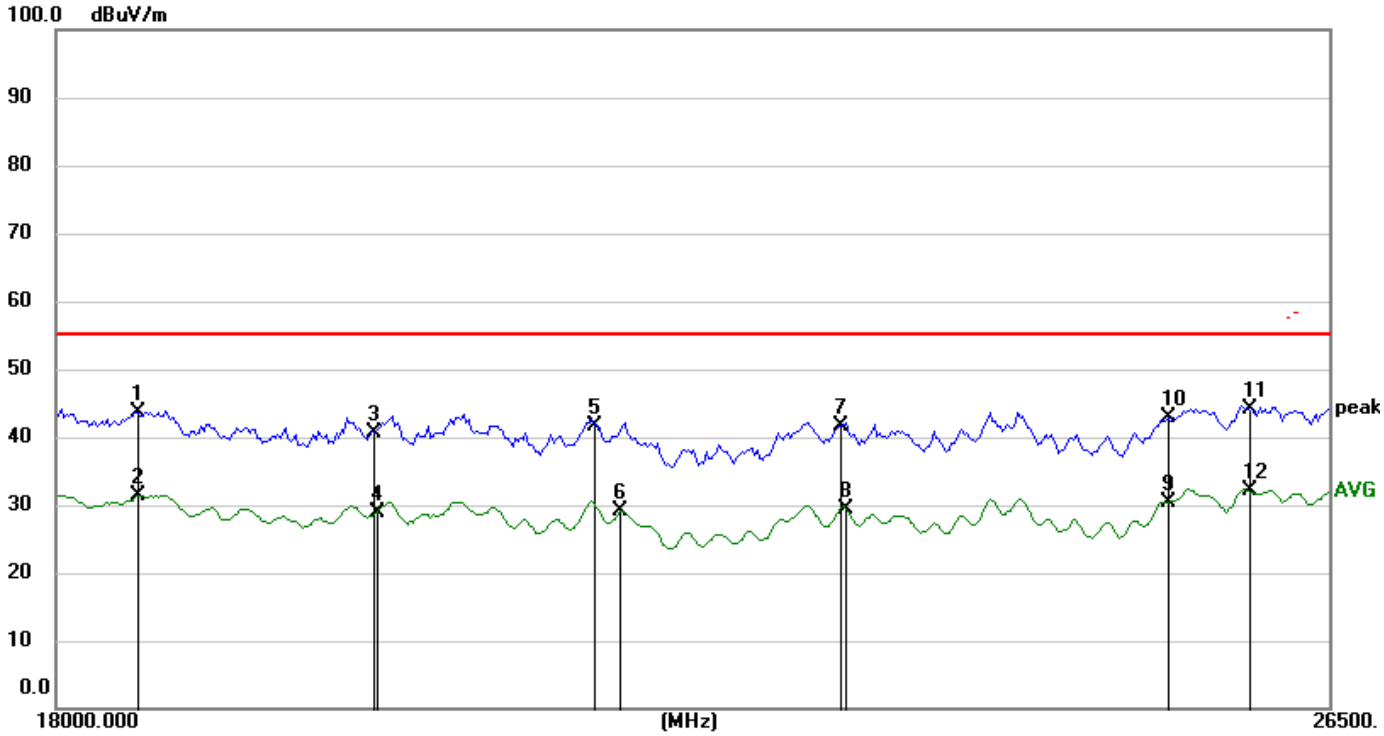
Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	18437.742	-0.27	43.81	43.54	55.25	-11.71	peak
2	18452.038	-0.27	31.59	31.32	55.25	-23.93	AVG
3	19831.246	0.18	40.37	40.55	55.25	-14.70	peak
4	19846.623	0.19	28.76	28.95	55.25	-26.30	AVG
5	21198.216	0.62	41.05	41.67	55.25	-13.58	peak
6	21363.161	0.68	28.43	29.11	55.25	-26.14	AVG
7	22835.727	1.44	40.28	41.72	55.25	-13.53	peak
8	22888.888	1.47	27.88	29.35	55.25	-25.90	AVG
9	25217.510	2.12	28.24	30.36	55.25	-24.89	AVG
10	25237.063	2.13	40.67	42.80	55.25	-12.45	peak
11	25850.803	2.25	42.00	44.25	55.25	-11.00	peak
12	25850.803	2.25	29.85	32.10	55.25	-23.15	AVG

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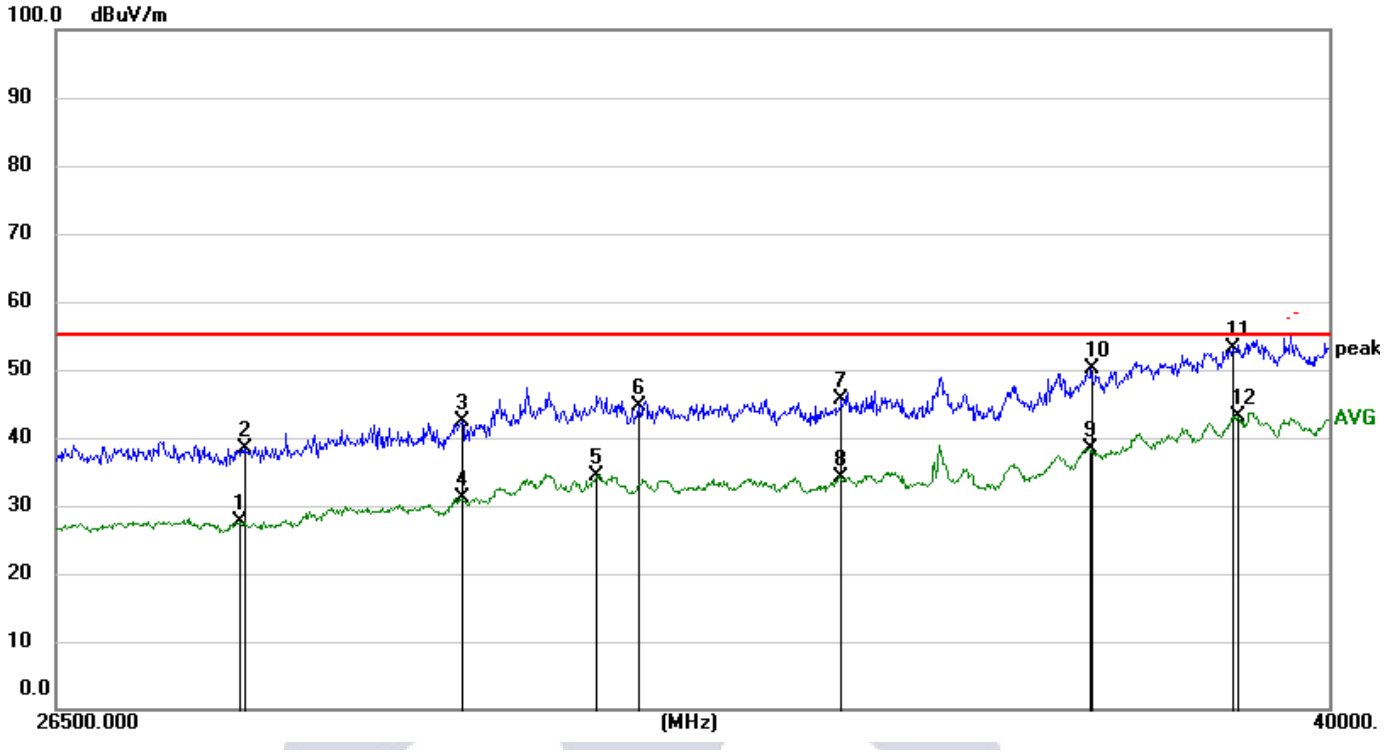
Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	28118.691	0.76	26.95	27.71	55.25	-27.54	AVG
2	28165.039	0.77	37.52	38.29	55.25	-16.96	peak
3	30219.521	1.31	41.03	42.34	55.25	-12.91	peak
4	30219.521	1.31	29.72	31.03	55.25	-24.22	AVG
5	31554.627	1.56	32.73	34.29	55.25	-20.96	AVG
6	31999.466	1.64	43.03	44.67	55.25	-10.58	peak
7	34164.430	1.99	43.67	45.66	55.25	-9.59	peak
8	34164.430	1.99	32.06	34.05	55.25	-21.20	AVG
9	37005.317	2.47	35.93	38.40	55.25	-16.85	AVG
10	37035.802	2.47	47.77	50.24	55.25	-5.01	peak
11	38767.707	2.76	50.44	53.20	55.25	-2.05	peak
12	38831.608	2.77	40.38	43.15	55.25	-12.10	AVG

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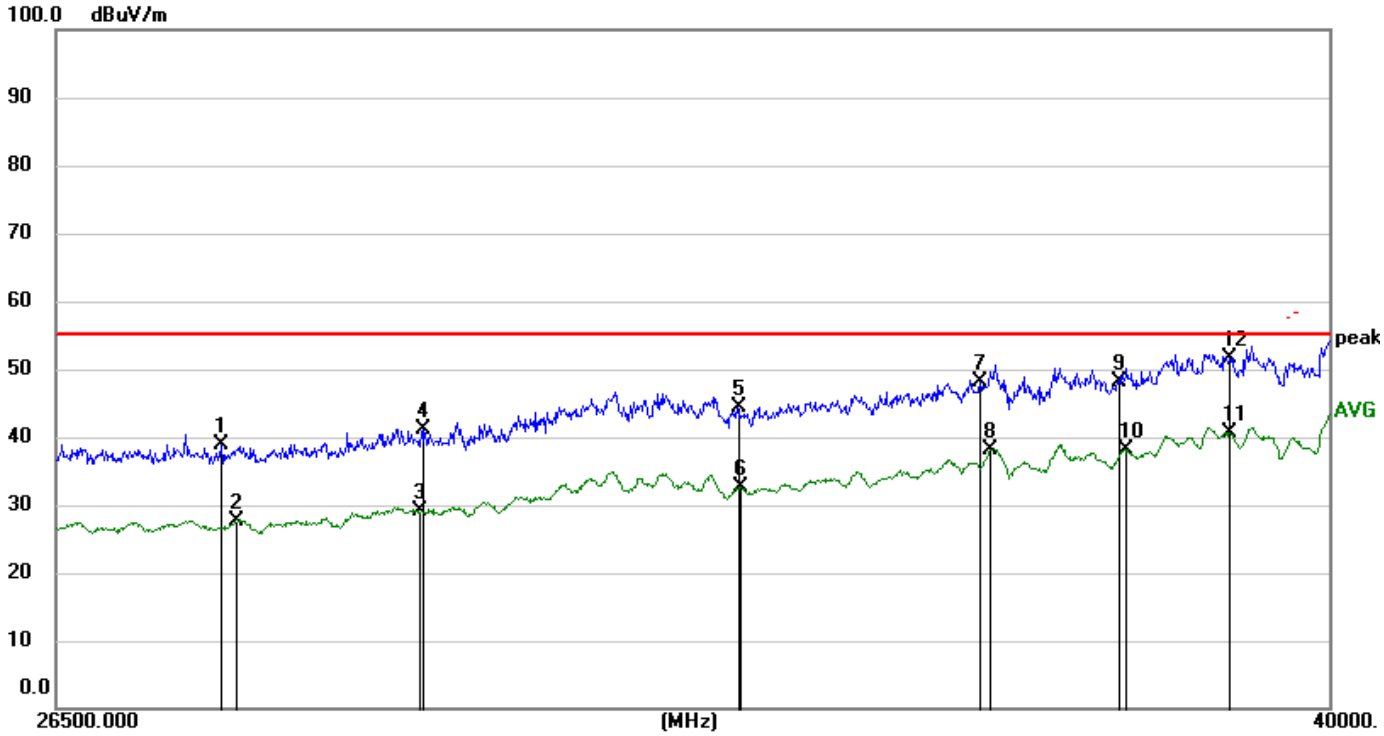
Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	27957.073	0.72	38.15	38.87	55.25	-16.38	peak
2	28083.981	0.75	26.80	27.55	55.25	-27.70	AVG
3	29799.426	1.22	28.02	29.24	55.25	-26.01	AVG
4	29836.257	1.23	39.87	41.10	55.25	-14.15	peak
5	33030.217	1.82	42.57	44.39	55.25	-10.86	peak
6	33071.041	1.82	30.75	32.57	55.25	-22.68	AVG
7	35732.625	2.25	45.94	48.19	55.25	-7.06	peak
8	35850.518	2.27	35.79	38.06	55.25	-17.19	AVG
9	37357.418	2.53	45.48	48.01	55.25	-7.24	peak
10	37434.404	2.54	35.52	38.06	55.25	-17.19	AVG
11	38719.851	2.75	37.82	40.57	55.25	-14.68	AVG
12	38735.796	2.76	48.93	51.69	55.25	-3.56	peak

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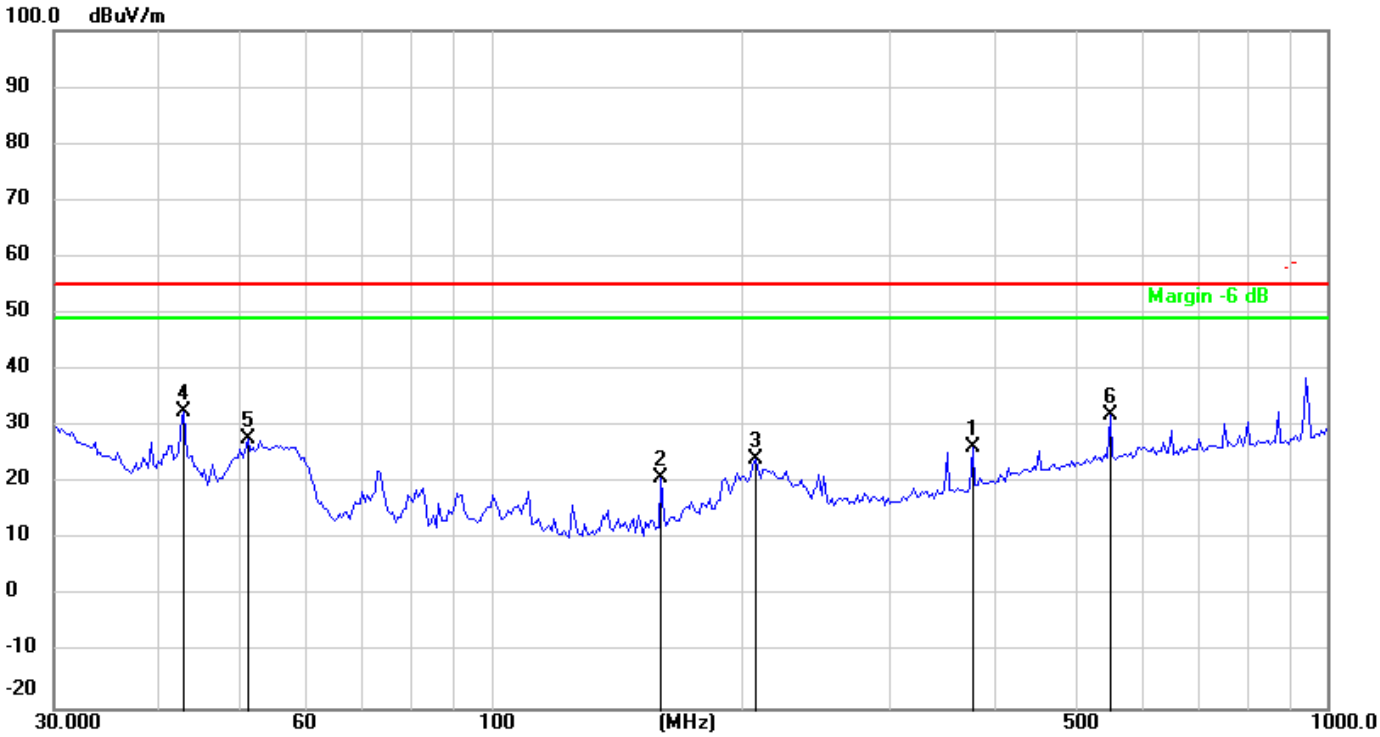
Channel Bandwidth: 100MHz

3625.005MHz

Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	376.5227	-7.70	33.92	26.22	55.25	-29.03	peak
2	159.7583	-15.80	36.69	20.89	55.25	-34.36	peak
3	207.1966	-13.06	37.21	24.15	55.25	-31.10	peak
4	42.9305	-17.57	50.14	32.57	55.25	-22.68	peak
5	51.1754	-14.86	42.59	27.73	55.25	-27.52	peak
6	550.2902	-4.79	36.82	32.03	55.25	-23.22	peak

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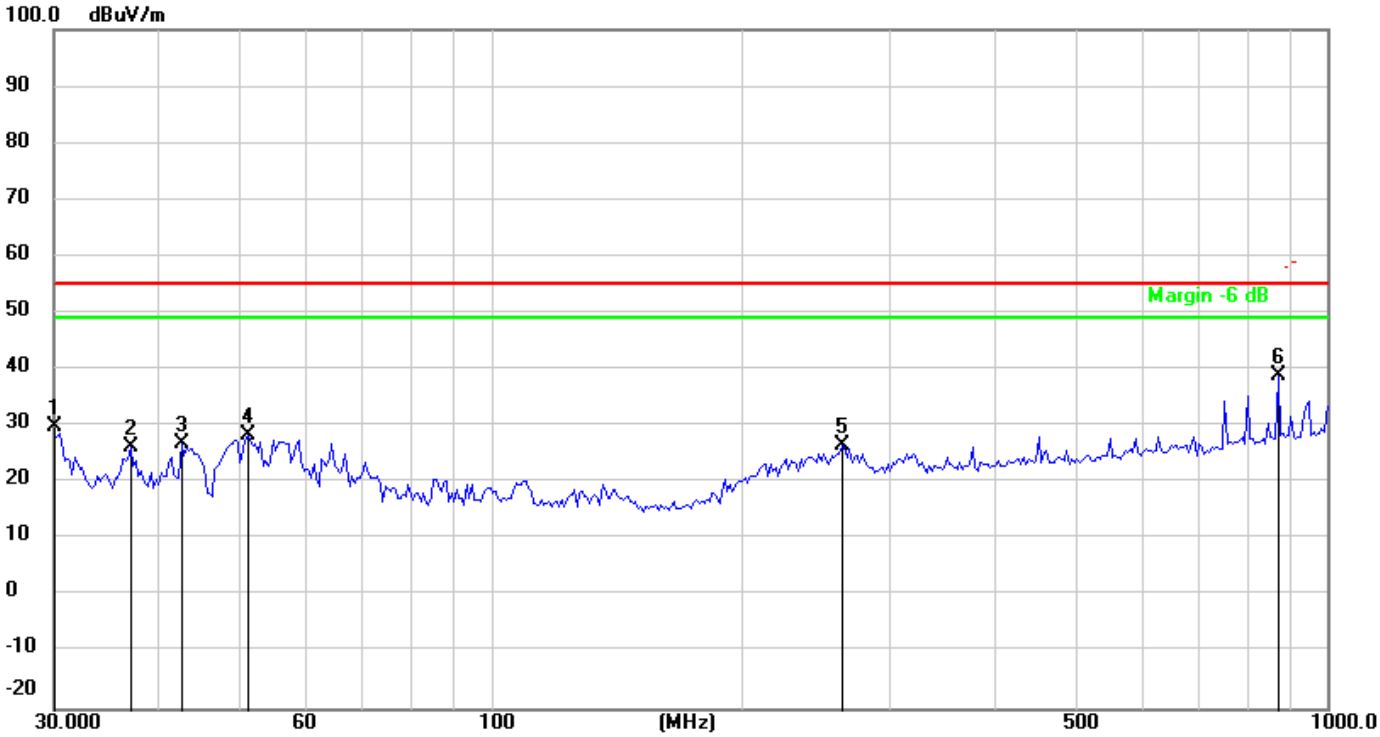
Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.0000	-11.92	41.89	29.97	55.25	-25.28	peak
2	37.0405	-17.48	43.69	26.21	55.25	-29.04	peak
3	42.6299	-15.69	42.54	26.85	55.25	-28.40	peak
4	51.1755	-12.86	41.20	28.34	55.25	-26.91	peak
5	263.1154	-8.73	35.46	26.73	55.25	-28.52	peak
6	875.0132	1.92	37.09	39.01	55.25	-16.24	peak

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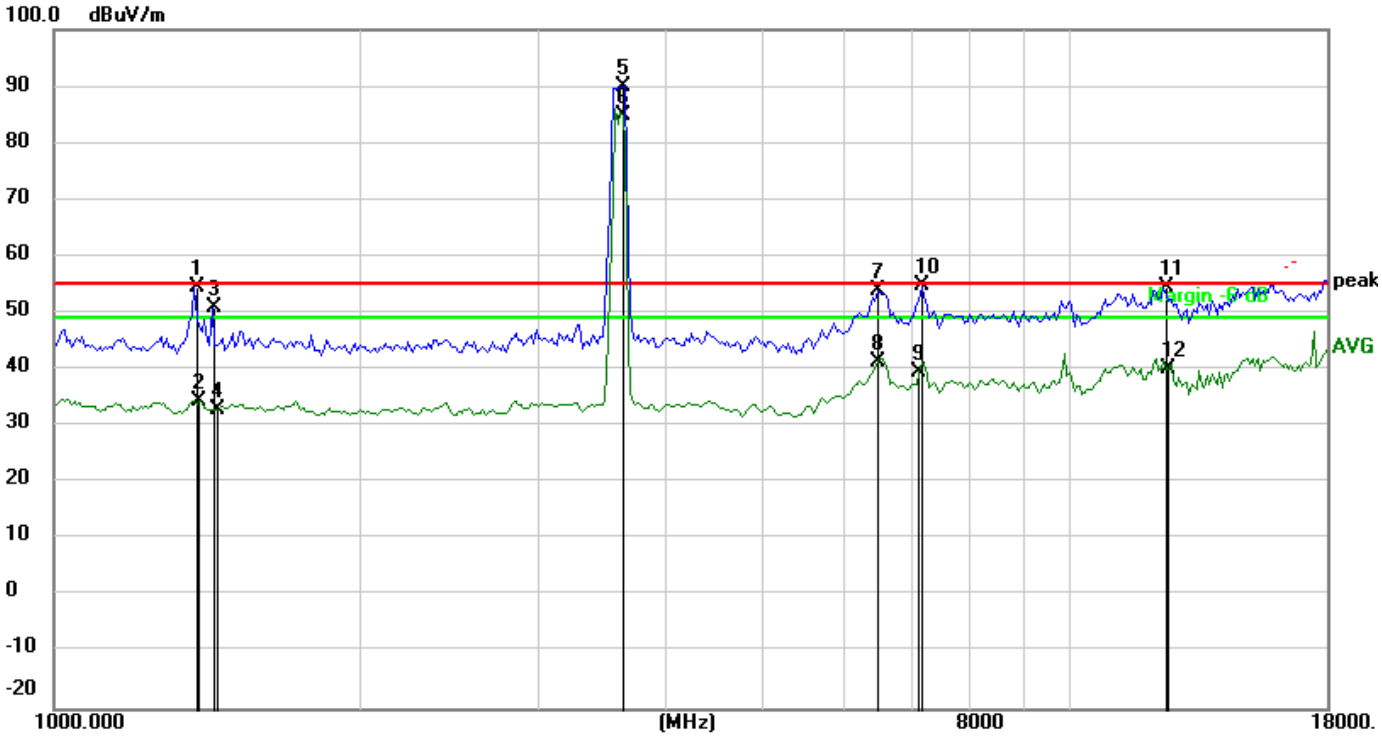
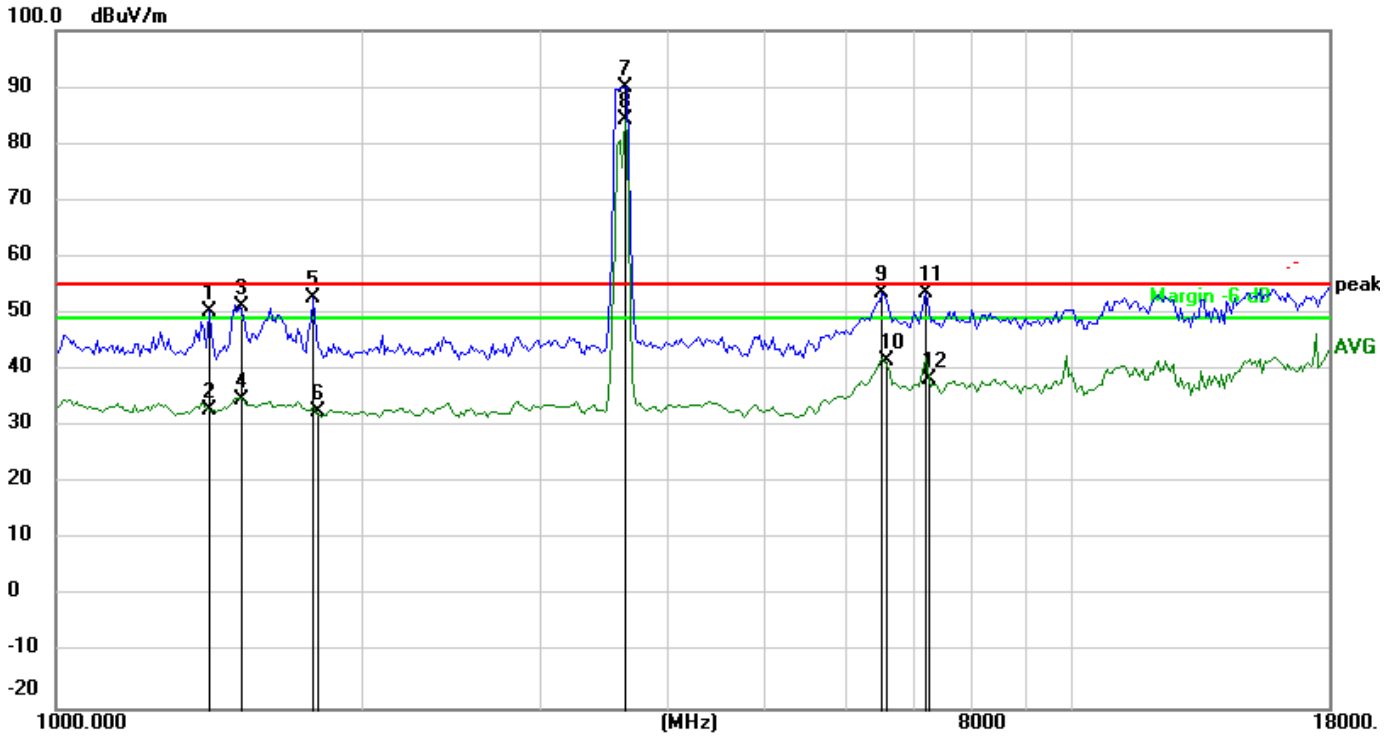
Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1375.171	-4.30	58.84	54.54	55.25	-0.71	peak
2	1391.194	-4.31	38.62	34.31	55.25	-20.94	AVG
3	1432.075	-4.17	55.17	51.00	55.25	-4.25	peak
4	1448.761	-4.11	37.10	32.99	55.25	-22.26	AVG
5	3625.000	-0.94	90.78	89.84	55.25	34.59	peak
6	3638.928	-0.92	85.92	85.00	55.25	29.75	AVG
7	6494.281	8.59	45.34	53.93	55.25	-1.32	peak
8	6494.281	8.59	32.89	41.48	55.25	-13.77	AVG
9	7124.925	3.52	36.03	39.55	55.25	-15.70	AVG
10	7166.315	3.55	51.22	54.77	55.25	-0.48	peak
11	12424.406	8.43	46.06	54.49	55.25	-0.76	peak
12	12569.175	8.44	31.59	40.03	55.25	-15.22	AVG

Note:- Marker 5 & 6 is desired intentional frequency, Hence considered as PASS.

Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1415.580	21.71	28.72	50.43	55.25	-4.82	peak
2	1415.580	21.71	11.26	32.97	55.25	-22.28	AVG
3	1517.475	22.13	29.10	51.23	55.25	-4.02	peak
4	1526.290	22.14	12.76	34.90	55.25	-20.35	AVG
5	1795.036	22.49	30.19	52.68	55.25	-2.57	peak
6	1805.464	22.50	10.19	32.69	55.25	-22.56	AVG
7	3625.000	29.20	60.64	89.84	55.25	34.59	peak
8	3638.928	29.24	55.11	84.35	55.25	29.10	AVG
9	6532.007	29.99	23.64	53.63	55.25	-1.62	peak
10	6569.953	31.25	10.46	41.71	55.25	-13.54	AVG
11	7207.945	39.75	13.86	53.61	55.25	-1.64	peak
12	7249.817	39.80	-1.42	38.38	55.25	-16.87	AVG

Note:- Marker 7 & 8 is desired intentional frequency, Hence considered as PASS.

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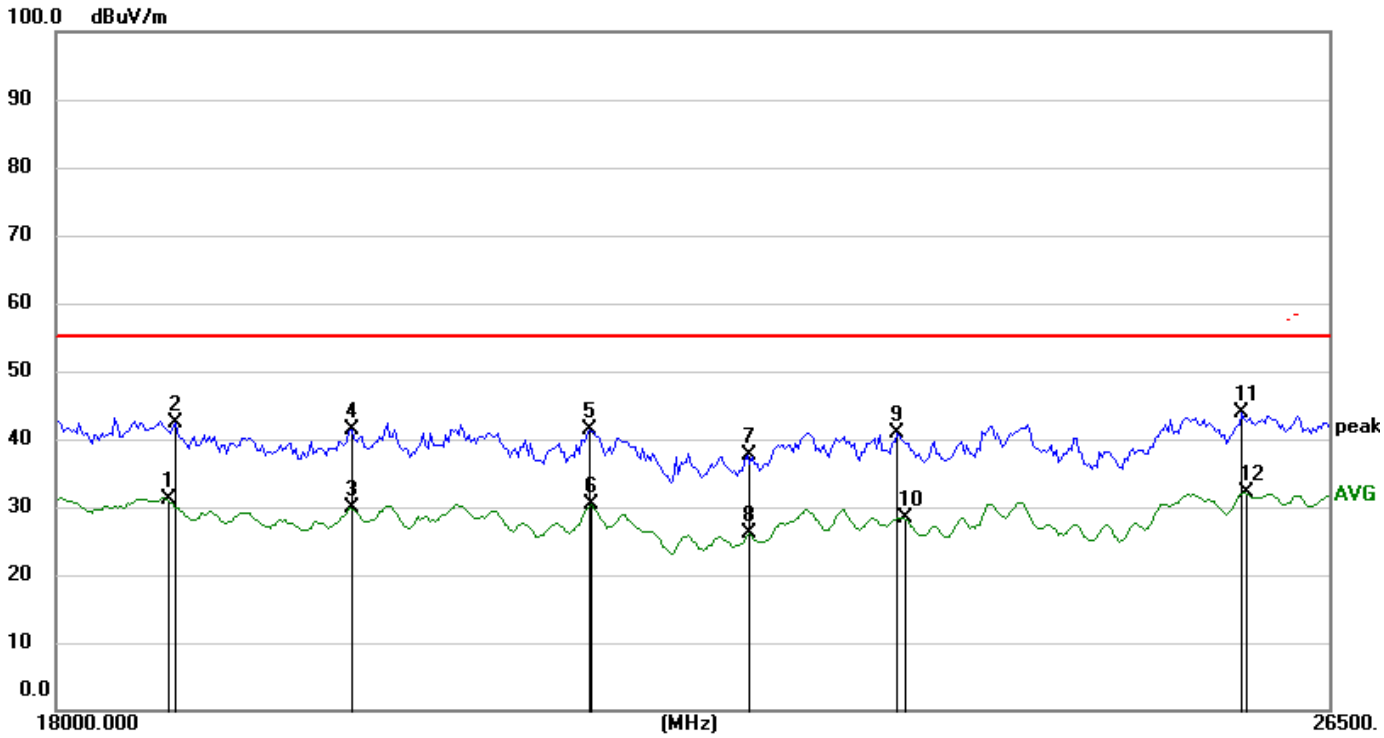
Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
1	18610.034	-0.21	31.34	31.13	55.25	-24.12	AVG	
2	18667.821	-0.20	42.61	42.41	55.25	-12.84	peak	
3	19678.129	0.14	29.70	29.84	55.25	-25.41	AVG	
4	19693.387	0.14	41.17	41.31	55.25	-13.94	peak	
5	21165.380	0.61	40.85	41.46	55.25	-13.79	peak	
6	21181.792	0.62	29.71	30.33	55.25	-24.92	AVG	
7	22207.339	1.03	36.58	37.61	55.25	-17.64	peak	
8	22224.558	1.04	25.07	26.11	55.25	-29.14	AVG	
9	23246.474	1.59	39.19	40.78	55.25	-14.47	peak	
10	23282.539	1.60	26.69	28.29	55.25	-26.96	AVG	
11	25810.760	2.24	41.56	43.80	55.25	-11.45	peak	
12	25830.774	2.24	30.00	32.24	55.25	-23.01	AVG	

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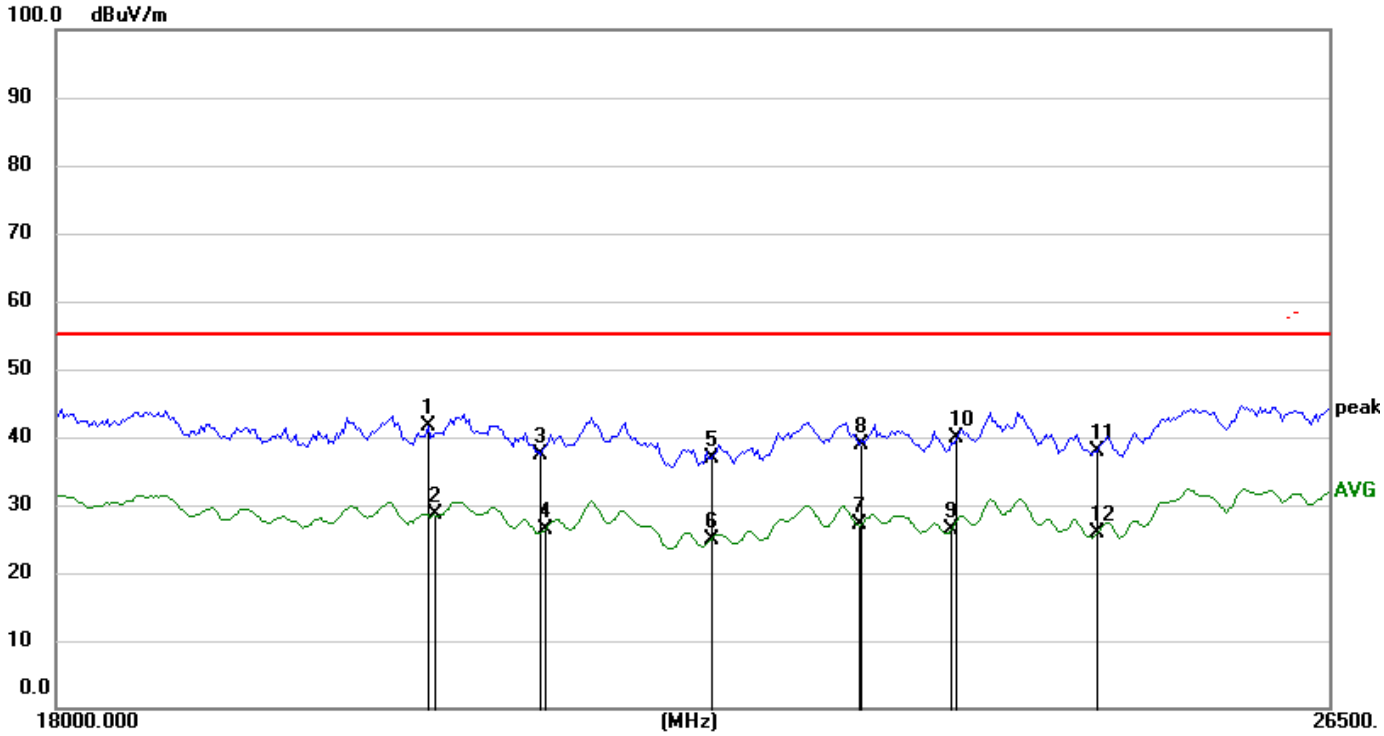
Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	20156.681	0.29	41.24	41.53	55.25	-13.72	peak
2	20187.952	0.30	28.24	28.54	55.25	-26.71	AVG
3	20855.965	0.52	36.91	37.43	55.25	-17.82	peak
4	20888.321	0.52	25.81	26.33	55.25	-28.92	AVG
5	21967.662	0.89	36.01	36.90	55.25	-18.35	peak
6	21967.662	0.89	23.97	24.86	55.25	-30.39	AVG
7	22959.963	1.51	25.57	27.08	55.25	-28.17	AVG
8	22977.766	1.53	37.29	38.82	55.25	-16.43	peak
9	23627.954	1.66	24.80	26.46	55.25	-28.79	AVG
10	23664.610	1.67	38.29	39.96	55.25	-15.29	peak
11	24695.251	1.98	35.87	37.85	55.25	-17.40	peak
12	24695.251	1.98	23.98	25.96	55.25	-29.29	AVG

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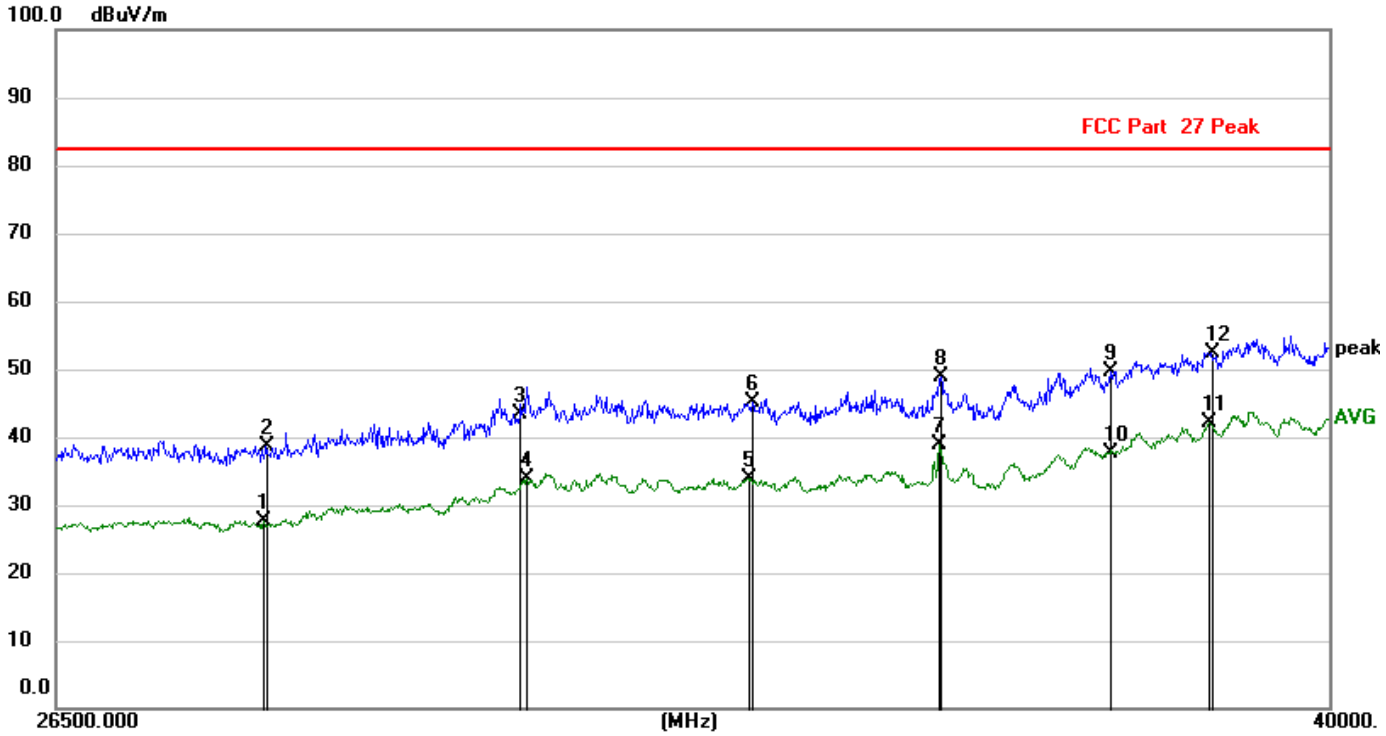
Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	28339.525	0.82	26.72	27.54	82.30	-54.76	AVG
2	28362.872	0.82	37.78	38.60	82.30	-43.70	peak
3	30784.649	1.43	42.07	43.50	82.30	-38.80	peak
4	30860.794	1.44	32.35	33.79	82.30	-48.51	AVG
5	33166.494	1.84	32.11	33.95	82.30	-48.35	AVG
6	33193.817	1.84	43.29	45.13	82.30	-37.17	peak
7	35264.917	2.15	36.78	38.93	82.30	-43.37	AVG
8	35279.440	2.16	46.81	48.97	82.30	-33.33	peak
9	37265.243	2.52	47.15	49.67	82.30	-32.63	peak
10	37265.243	2.52	35.23	37.75	82.30	-44.55	AVG
11	38481.453	2.72	39.41	42.13	82.30	-40.17	AVG
12	38497.301	2.72	49.59	52.31	82.30	-29.99	peak

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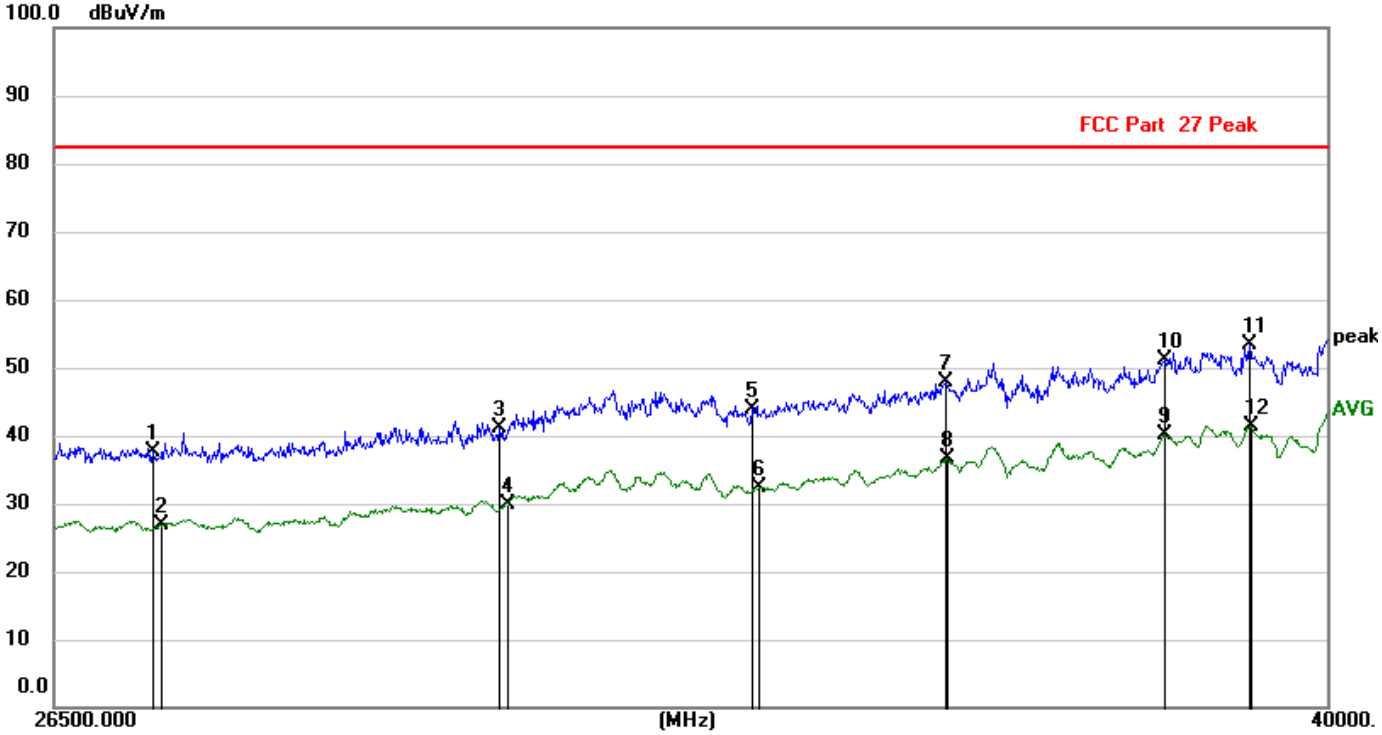
Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	27364.869	0.55	37.15	37.70	82.30	-44.60	peak
2	27443.852	0.57	26.38	26.95	82.30	-55.35	AVG
3	30607.708	1.39	39.62	41.01	82.30	-41.29	peak
4	30670.785	1.40	28.60	30.00	82.30	-52.30	AVG
5	33207.487	1.84	42.09	43.93	82.30	-38.37	peak
6	33289.624	1.86	30.47	32.33	82.30	-49.97	AVG
7	35366.702	2.18	45.58	47.76	82.30	-34.54	peak
8	35381.267	2.18	34.52	36.70	82.30	-45.60	AVG
9	37930.885	2.62	37.54	40.16	82.30	-42.14	AVG
10	37946.505	2.63	48.39	51.02	82.30	-31.28	peak
11	39007.878	2.79	50.51	53.30	82.30	-29.00	peak
12	39023.943	2.79	38.48	41.27	82.30	-41.03	AVG

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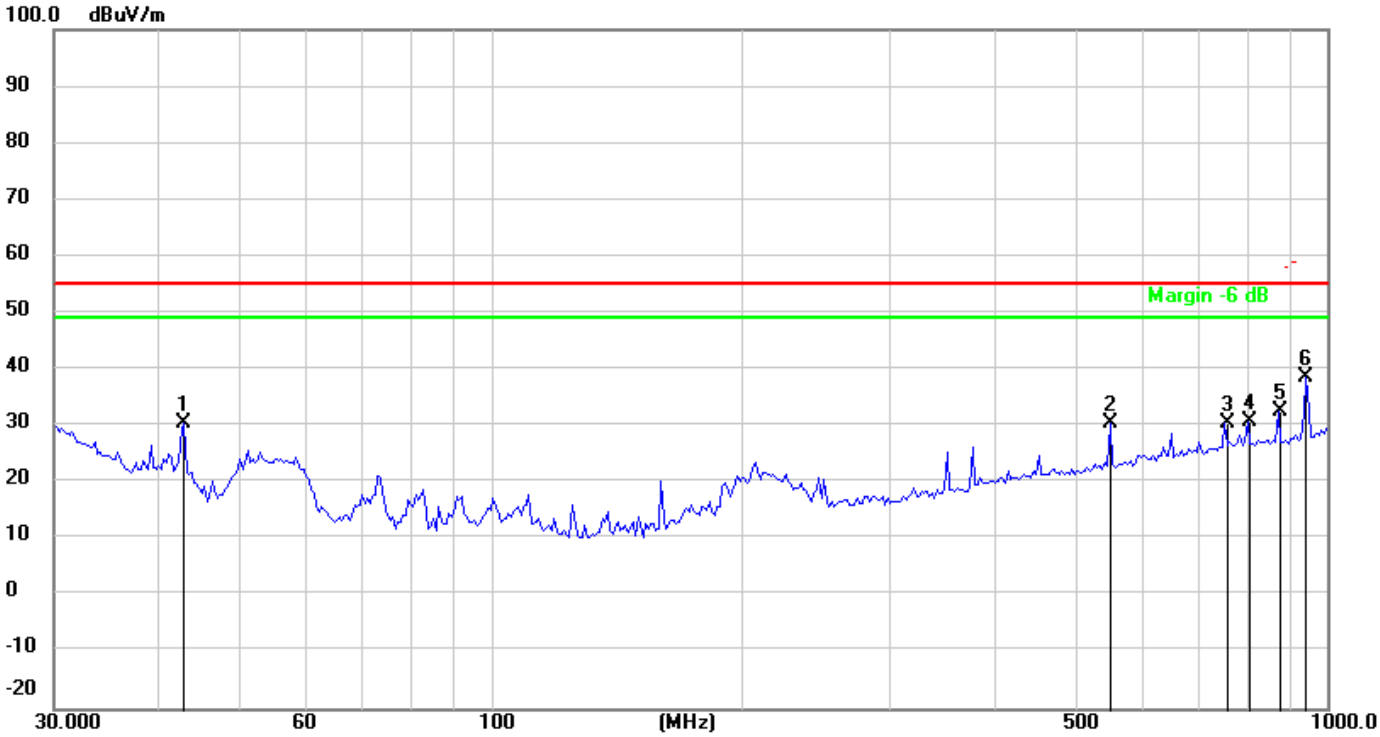
Channel Bandwidth: 100MHz

3649.755MHz

Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	42.9305	-17.57	48.14	30.57	55.25	-24.68	peak
2	550.2902	-4.79	35.32	30.53	55.25	-24.72	peak
3	754.9628	-1.59	32.19	30.60	55.25	-24.65	peak
4	804.2523	-0.97	31.90	30.93	55.25	-24.32	peak
5	875.0133	-0.08	32.59	32.51	55.25	-22.74	peak
6	945.3336	0.78	37.87	38.65	55.25	-16.60	peak

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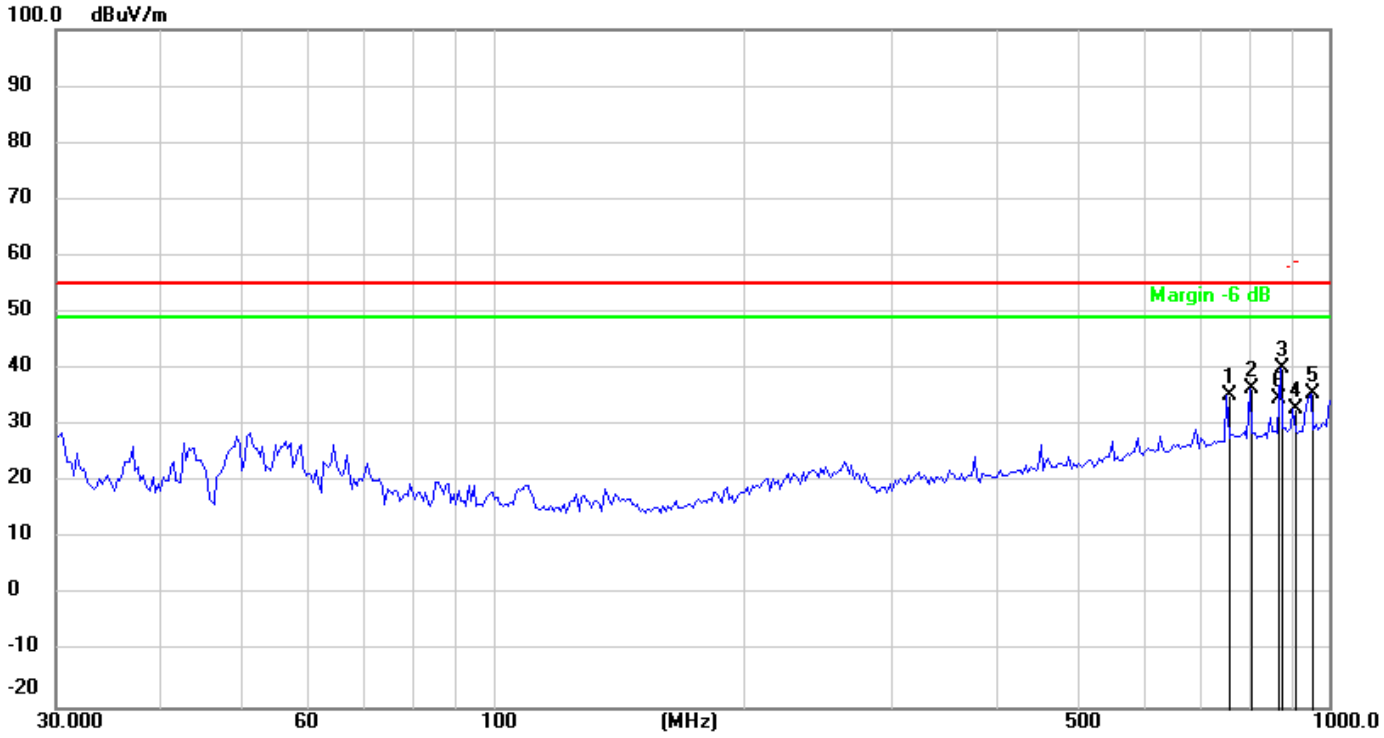
Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	754.9628	0.41	34.98	35.39	55.25	-19.86	peak
2	804.2523	1.03	35.40	36.43	55.25	-18.82	peak
3	875.0133	1.92	38.09	40.01	55.25	-15.24	peak
4	906.3041	2.36	30.46	32.82	55.25	-22.43	peak
5	952.0001	2.85	32.72	35.57	55.25	-19.68	peak
6	1000.0000	3.32	31.57	34.89	55.25	-20.36	peak

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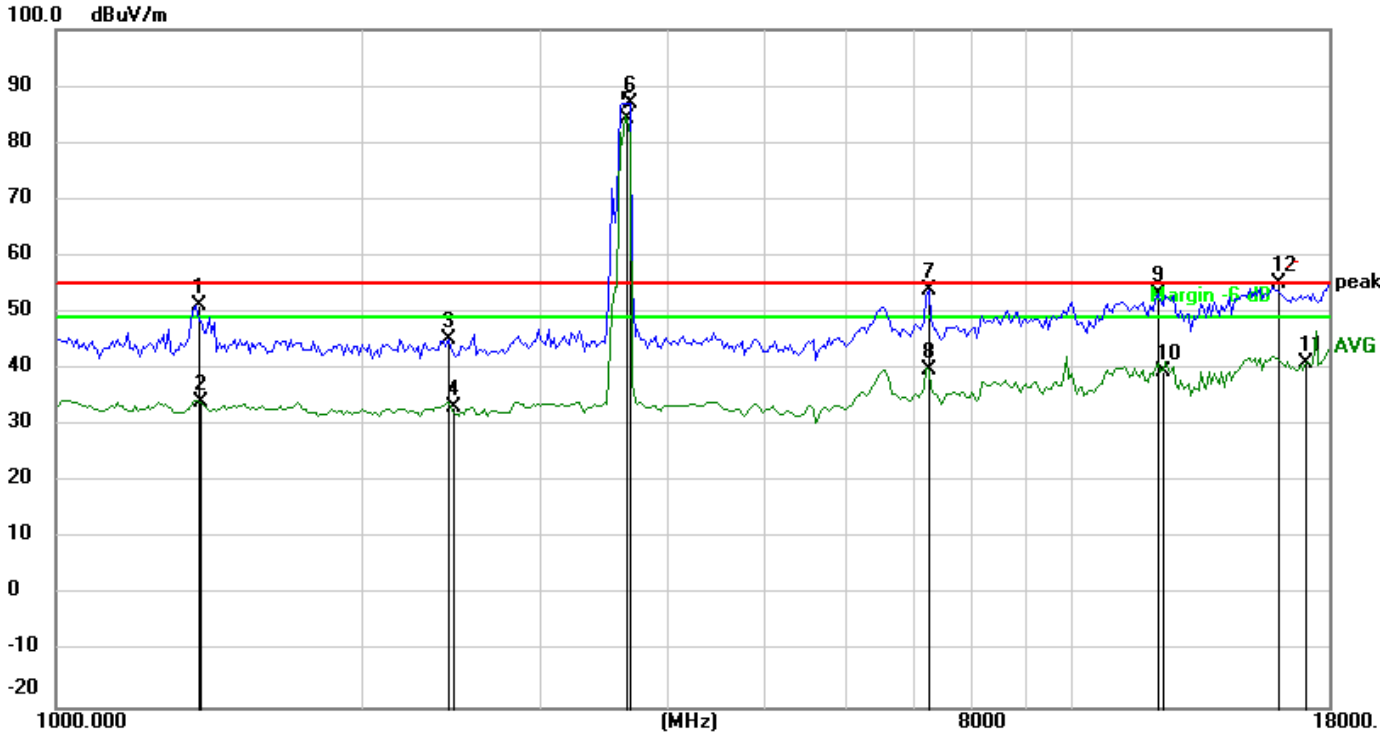
Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1375.171	-4.30	55.63	51.33	55.25	-3.92	peak
2	1391.194	-4.31	38.32	34.01	55.25	-21.24	AVG
3	2440.050	-2.73	48.12	45.39	55.25	-9.86	peak
4	2454.225	-2.71	35.99	33.28	55.25	-21.97	AVG
5	3660.067	-0.88	85.09	84.21	55.25	28.96	AVG
6	3681.329	-0.85	87.76	86.91	55.25	31.66	peak
7	7249.817	3.60	50.28	53.88	55.25	-1.37	peak
8	7249.817	3.60	36.21	39.81	55.25	-15.44	AVG
9	12210.372	8.39	44.89	53.28	55.25	-1.97	peak
10	12281.304	8.41	31.19	39.60	55.25	-15.65	AVG
11	17085.682	9.53	31.54	41.07	55.25	-14.18	AVG
12	18000.000	12.99	42.19	55.18	55.25	-0.07	peak

Note:- Marker 3 is desired intentional frequency, Hence considered as PASS.

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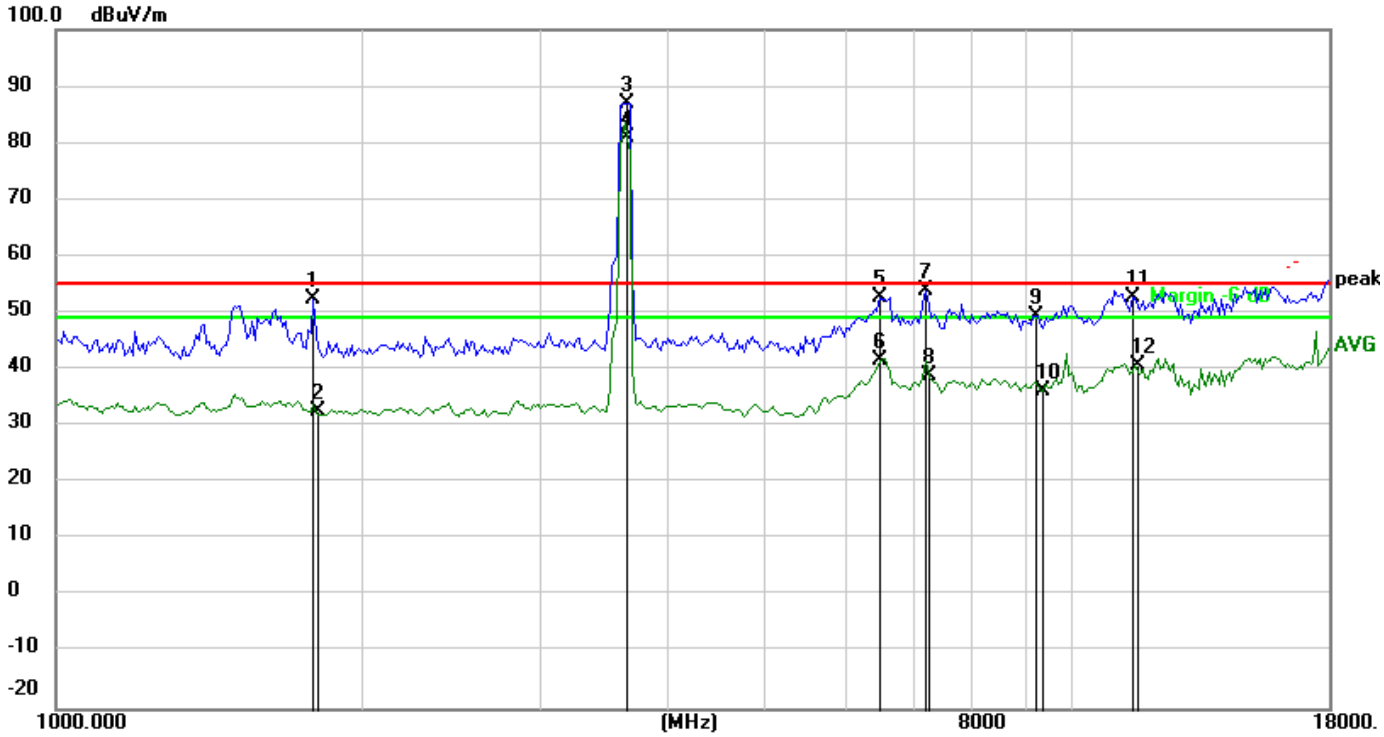
Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1795.036	22.49	30.01	52.50	55.25	-2.75	peak
2	1805.464	22.50	10.21	32.71	55.25	-22.54	AVG
3	3649.000	29.27	57.61	86.88	55.25	31.63	peak
4	3660.067	29.31	51.52	80.83	55.25	25.58	AVG
5	6494.281	43.53	9.36	52.89	55.25	-2.36	peak
6	6494.281	43.53	-2.00	41.53	55.25	-13.72	AVG
7	7207.945	39.75	14.27	54.02	55.25	-1.23	peak
8	7249.817	39.80	-0.95	38.85	55.25	-16.40	AVG
9	9246.582	41.54	7.92	49.46	55.25	-5.79	peak
10	9354.324	41.44	-5.32	36.12	55.25	-19.13	AVG
11	11523.201	47.39	5.39	52.78	55.25	-2.47	peak
12	11590.141	47.35	-6.71	40.64	55.25	-14.61	AVG

Note:- Marker 3 & 4 is desired intentional frequency, Hence considered as PASS.

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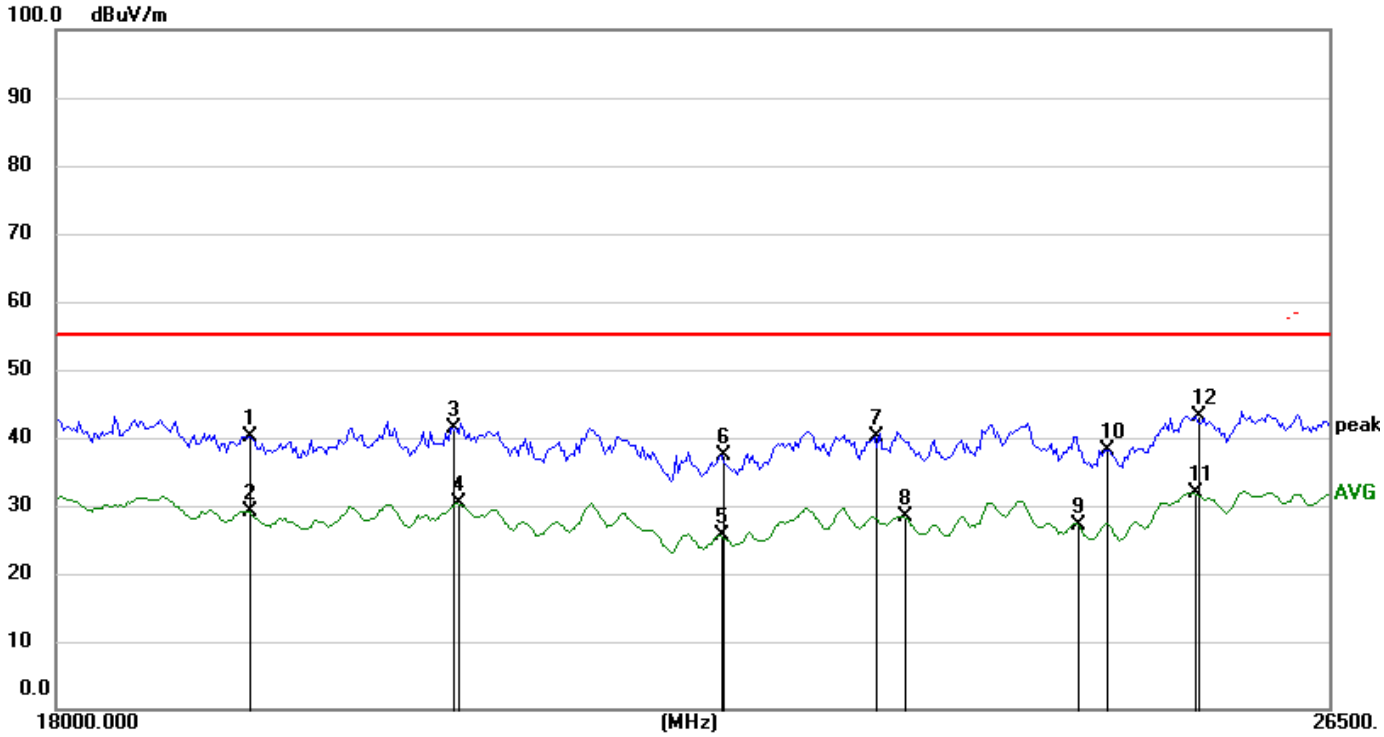
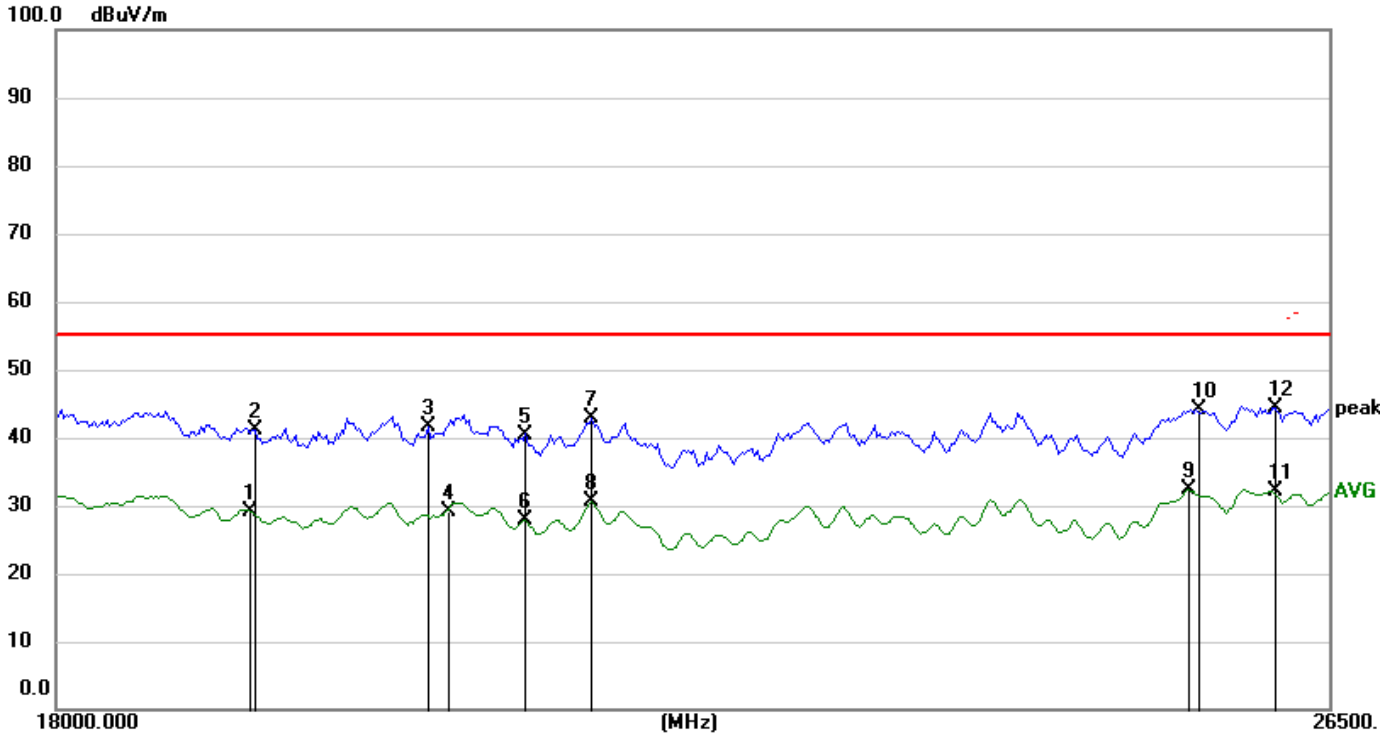
Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	19092.184	-0.06	40.24	40.18	55.25	-15.07	peak
2	19092.184	-0.06	29.24	29.18	55.25	-26.07	AVG
3	20297.783	0.34	41.04	41.38	55.25	-13.87	peak
4	20329.273	0.35	30.00	30.35	55.25	-24.90	AVG
5	22018.803	0.91	24.81	25.72	55.25	-29.53	AVG
6	22035.876	0.93	36.50	37.43	55.25	-17.82	peak
7	23084.875	1.55	38.68	40.23	55.25	-15.02	peak
8	23282.539	1.60	26.69	28.29	55.25	-26.96	AVG
9	24561.626	1.93	25.32	27.25	55.25	-28.00	AVG
10	24771.935	2.00	36.10	38.10	55.25	-17.15	peak
11	25433.435	2.17	29.70	31.87	55.25	-23.38	AVG
12	25453.156	2.17	40.96	43.13	55.25	-12.12	peak

Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	19092.184	-0.06	29.24	29.18	55.25	-26.07	AVG
2	19121.804	-0.05	41.29	41.24	55.25	-14.01	peak
3	20156.681	0.29	41.24	41.53	55.25	-13.72	peak
4	20266.342	0.33	28.92	29.25	55.25	-26.00	AVG
5	20759.198	0.49	40.01	40.50	55.25	-14.75	peak
6	20759.198	0.49	27.31	27.80	55.25	-27.45	AVG
7	21181.792	0.62	42.26	42.88	55.25	-12.37	peak
8	21181.792	0.62	30.00	30.62	55.25	-24.63	AVG
9	25394.038	2.16	30.14	32.30	55.25	-22.95	AVG
10	25453.156	2.17	42.04	44.21	55.25	-11.04	peak
11	26051.950	2.30	29.84	32.14	55.25	-23.11	AVG
12	26072.150	2.30	42.18	44.48	55.25	-10.77	peak

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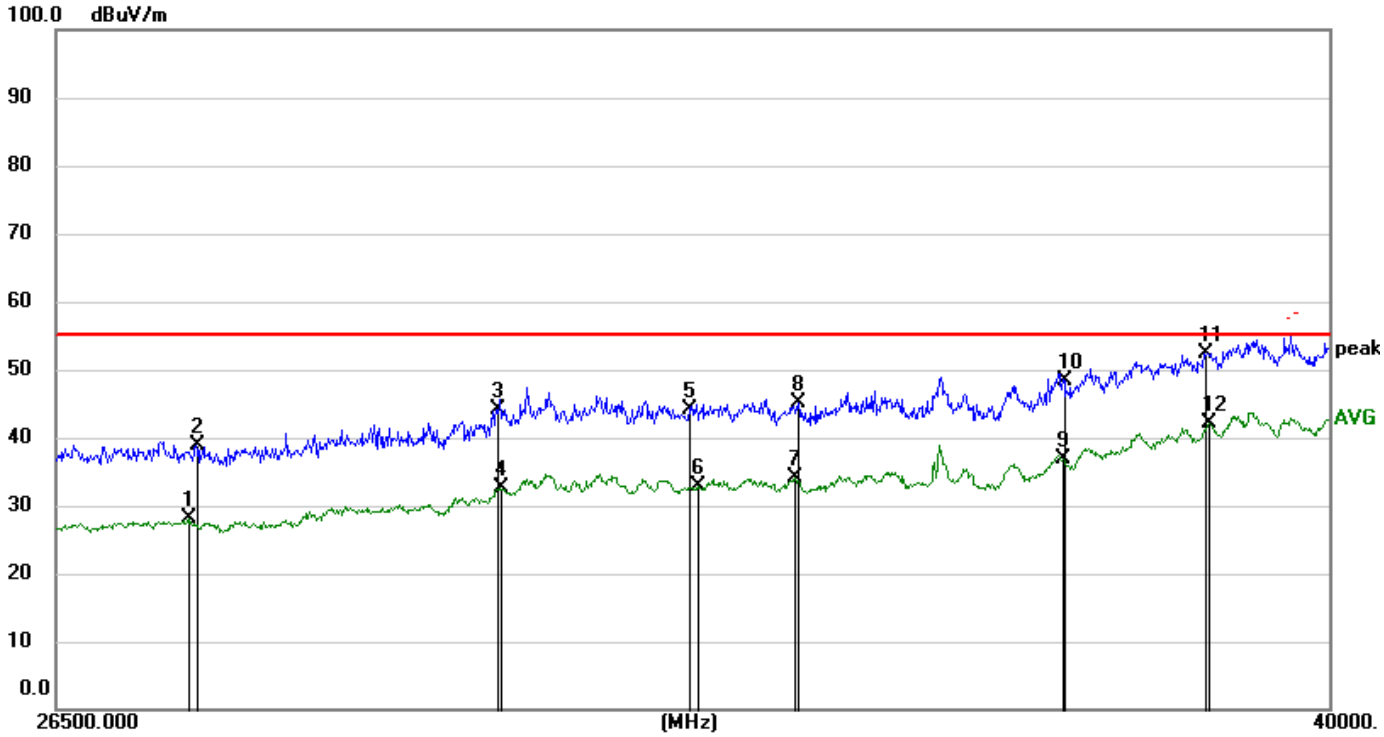
Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	27659.386	0.63	27.44	28.07	55.25	-27.18	AVG
2	27727.801	0.65	38.17	38.82	55.25	-16.43	peak
3	30557.341	1.38	42.84	44.22	55.25	-11.03	peak
4	30595.109	1.39	31.17	32.56	55.25	-22.69	AVG
5	32530.842	1.73	42.31	44.04	55.25	-11.21	peak
6	32611.306	1.75	31.14	32.89	55.25	-22.36	AVG
7	33647.908	1.91	32.22	34.13	55.25	-21.12	AVG
8	33689.495	1.92	43.23	45.15	55.25	-10.10	peak
9	36701.840	2.42	34.37	36.79	55.25	-18.46	AVG
10	36716.955	2.42	45.97	48.39	55.25	-6.86	peak
11	38418.129	2.70	49.60	52.30	55.25	-2.95	peak
12	38481.453	2.72	39.41	42.13	55.25	-13.12	AVG

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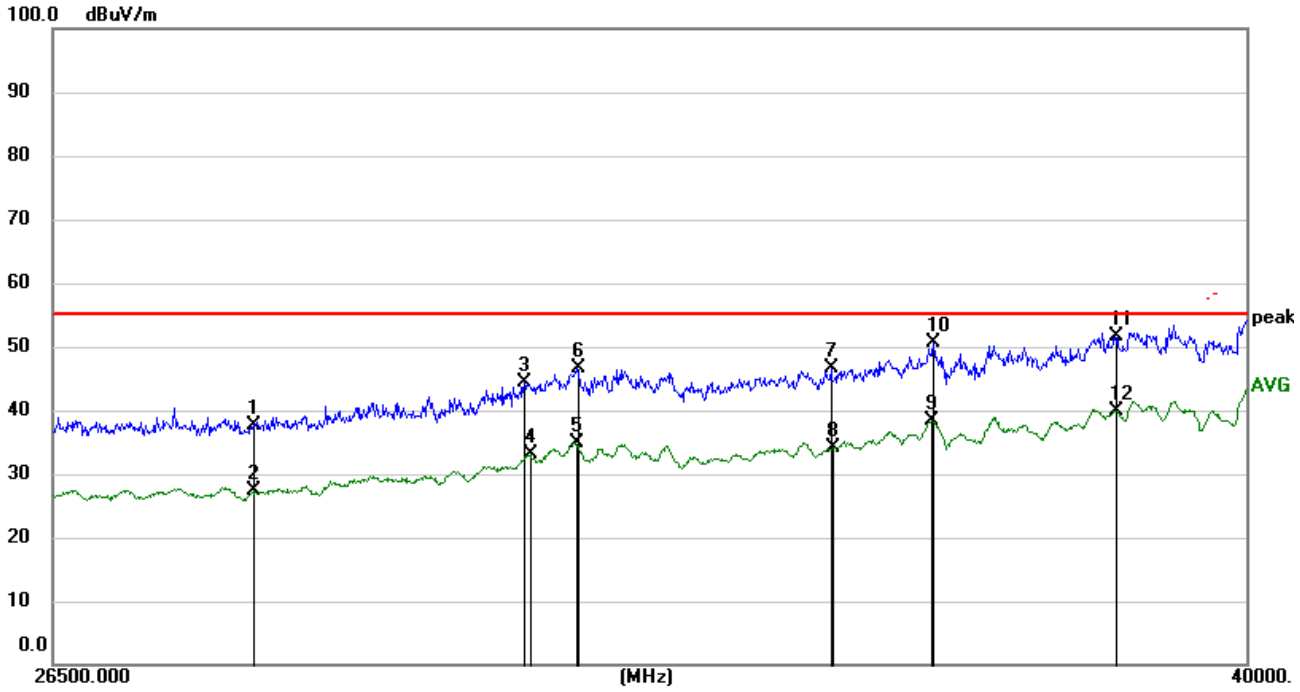
Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	28397.927	0.83	36.91	37.74	55.25	-17.51	peak
2	28409.622	0.84	26.53	27.37	55.25	-27.88	AVG
3	31180.096	1.49	42.84	44.33	55.25	-10.92	peak
4	31244.352	1.50	31.54	33.04	55.25	-22.21	AVG
5	31737.043	1.59	33.32	34.91	55.25	-20.34	AVG
6	31750.113	1.60	45.11	46.71	55.25	-8.54	peak
7	34660.329	2.06	44.59	46.65	55.25	-8.60	peak
8	34688.882	2.06	32.13	34.19	55.25	-21.06	AVG
9	35894.828	2.27	36.23	38.50	55.25	-16.75	AVG
10	35909.610	2.28	48.32	50.60	55.25	-4.65	peak
11	38228.780	2.68	48.89	51.57	55.25	-3.68	peak
12	38244.523	2.68	37.26	39.94	55.25	-15.31	AVG

Note:- Testing is carried out in all possible configuration , only worst case data reported. This unit meets the FCC requirement.

****End of Report****

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