

Appendix A for KSCR220900160501

1 Spurious Emissions

1.1 Field Strength of the Fundamental Signal

Test Freq. (MHz)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Over Limit (dB)	Detector	Polarization
433.40	77.77	80.81	-3.04	Peak	Vertical
	79.55	80.81	-1.26	Peak	Horizontal
434.60	72.34	80.85	-8.51	Peak	Vertical
	76.69	80.85	-4.16	Peak	Horizontal

Remark:

1. If the Peak value below the AV Limit, the AV test doesn't perform for this submission.
2. Average level=Peak level-Duty Cycle Factor
3. Duty Cycle Factor= $20\log(\text{Duty Cycle})$ = dB

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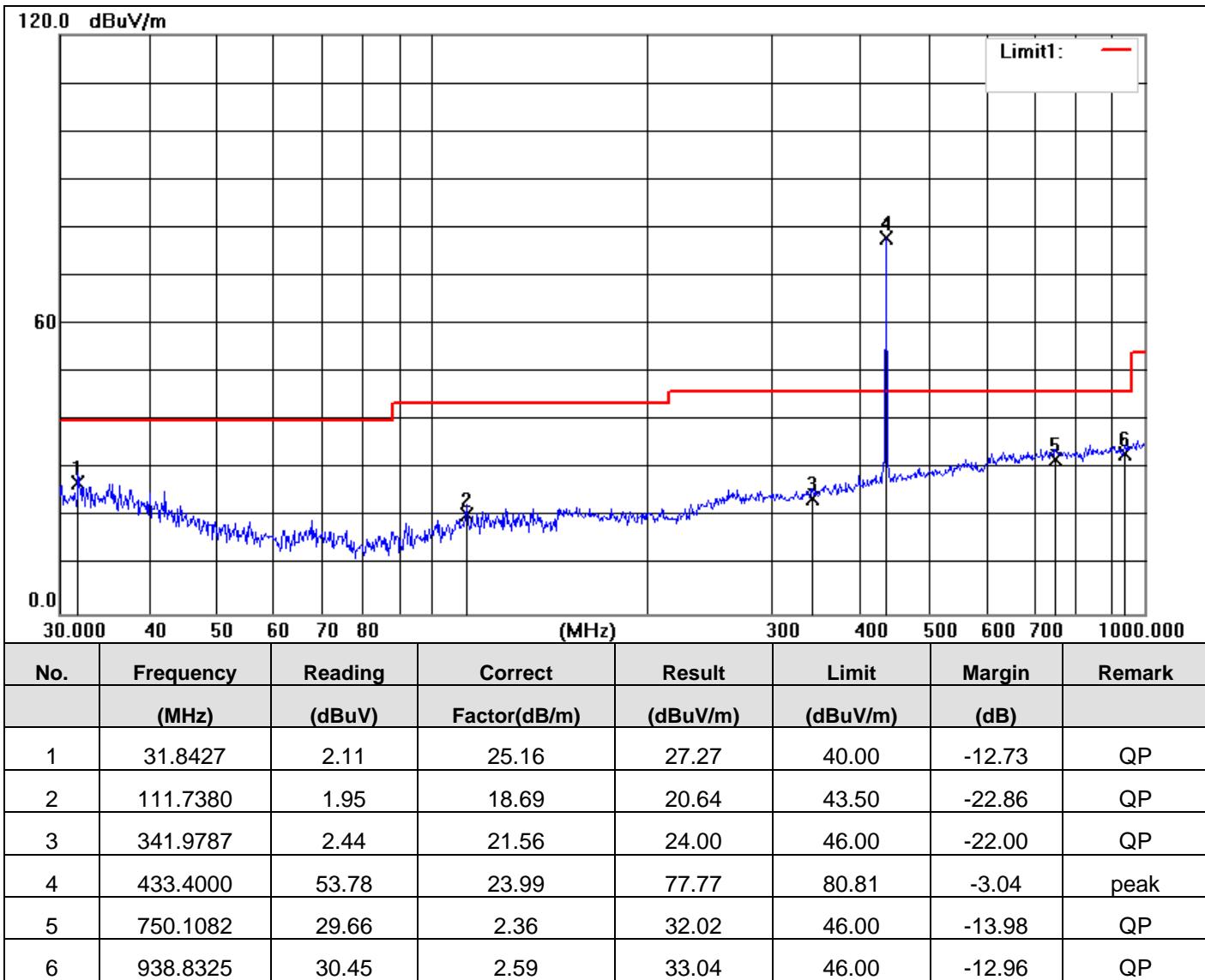
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1.2 Spurious Emissions

Below 1GHz

433.4MHz

Vertical:



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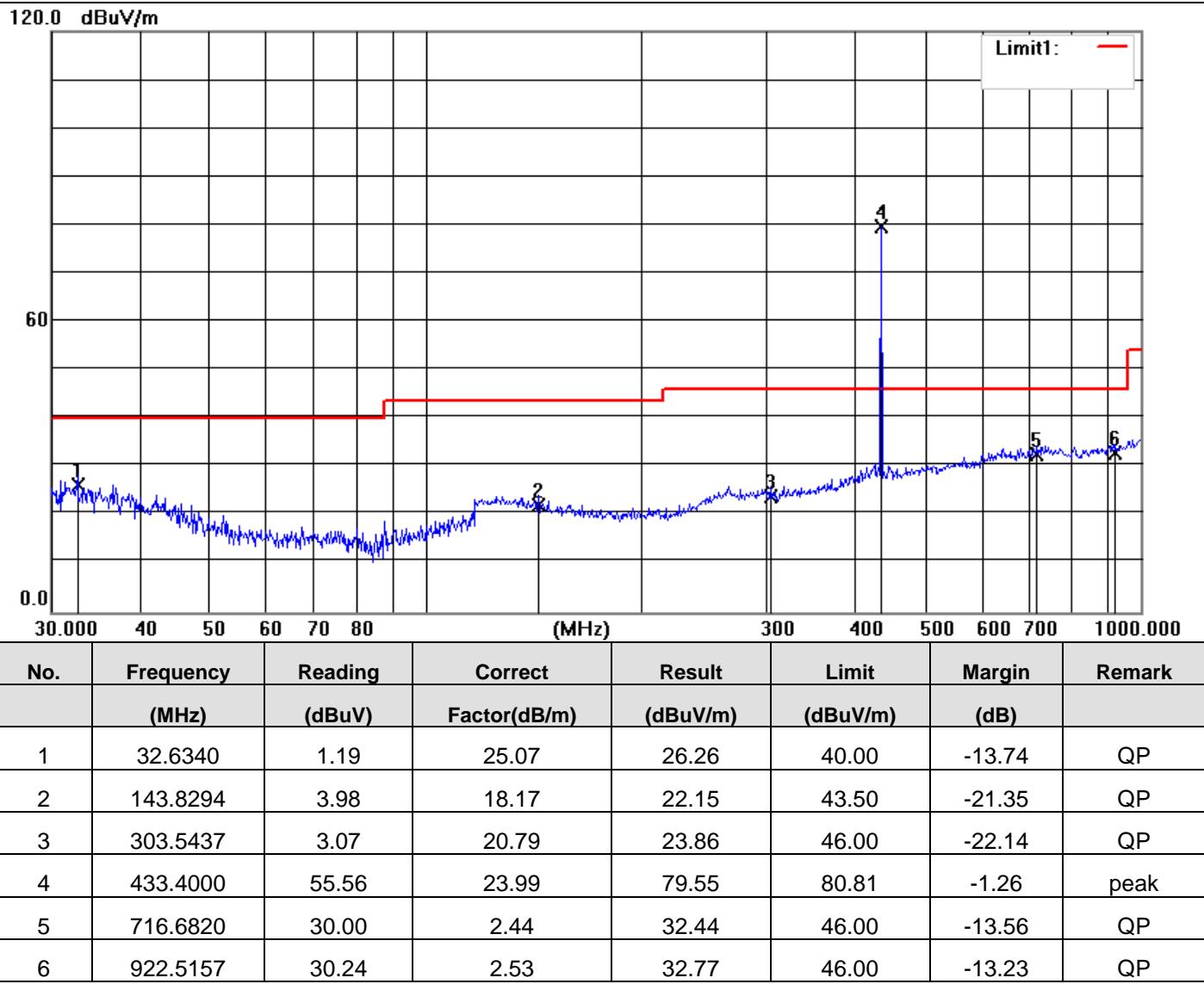
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Horizontal:



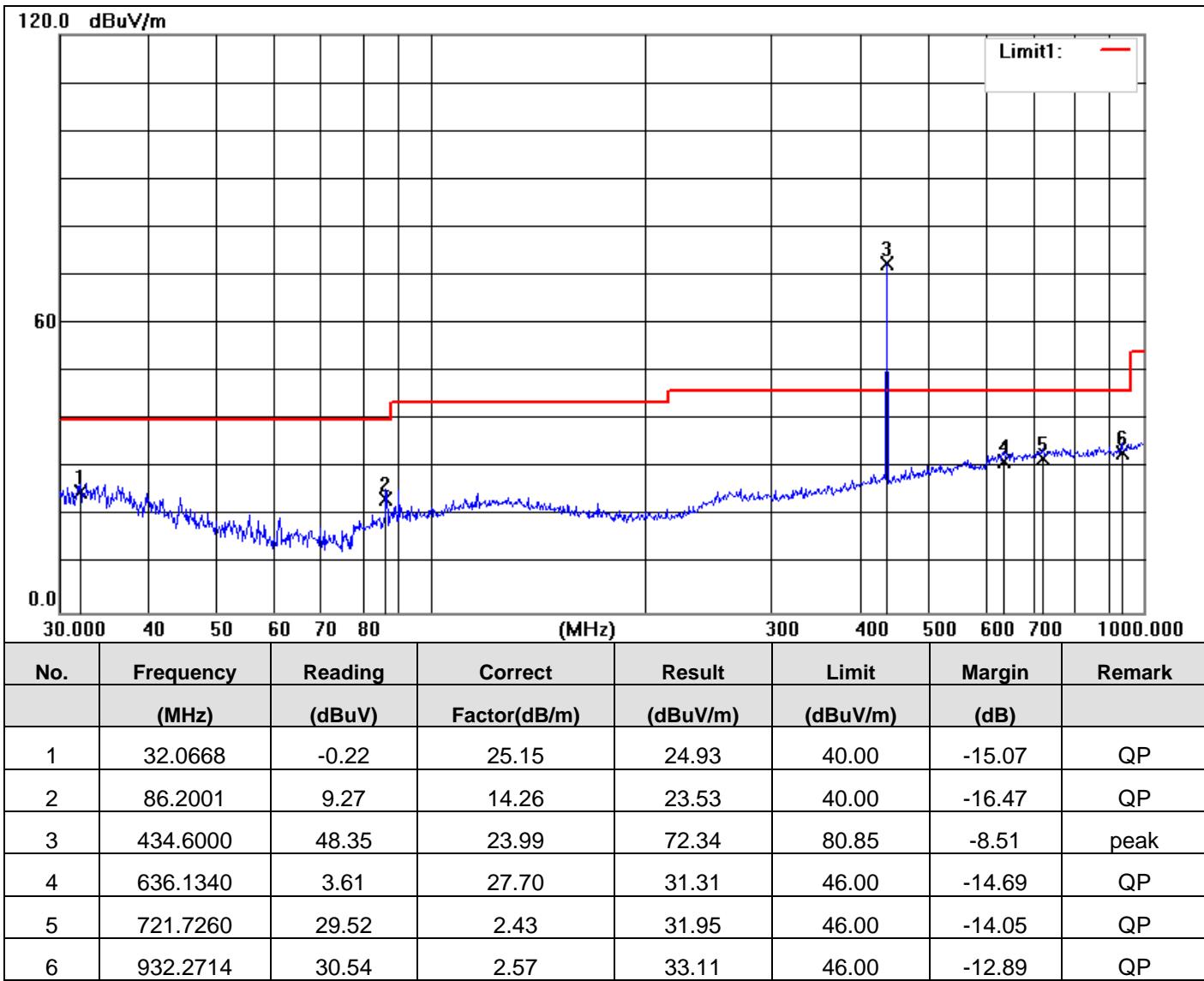
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434.6MHz

Vertical:

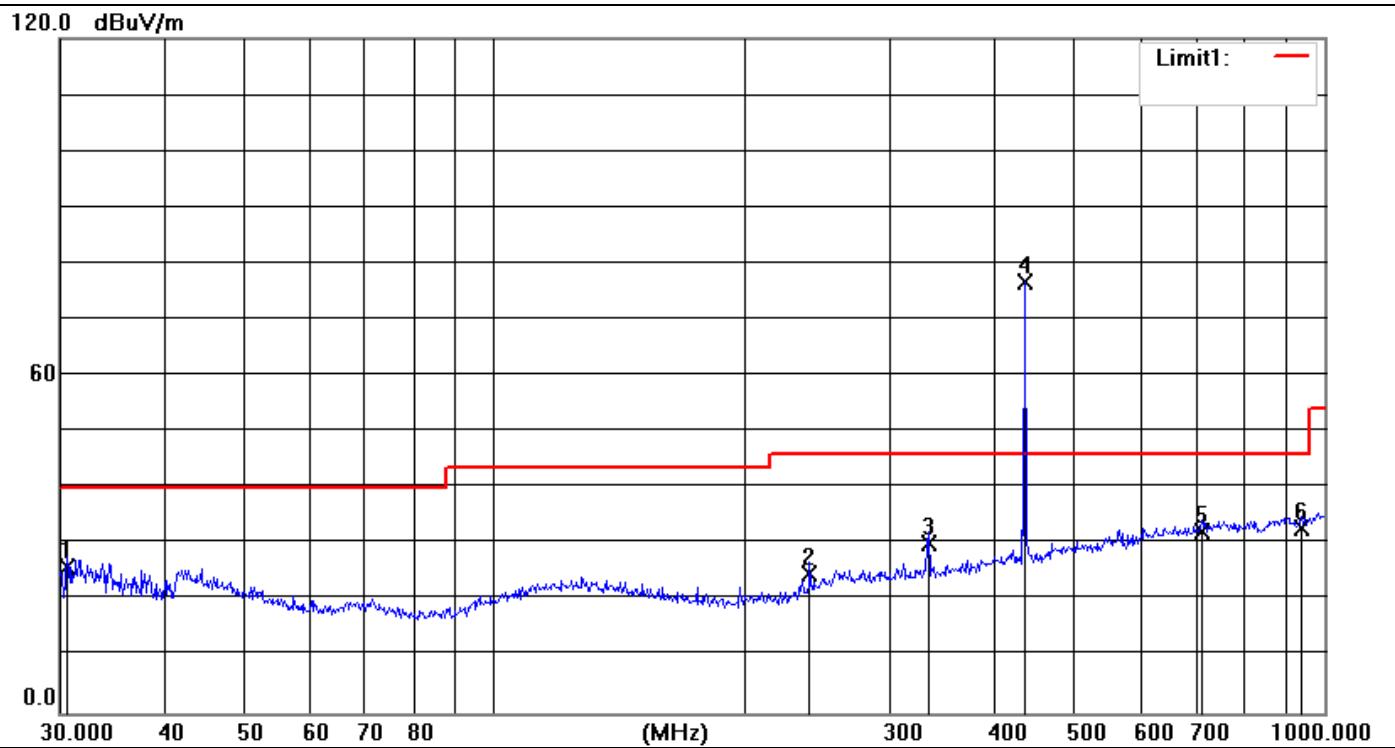


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Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.6378	0.69	25.16	25.85	40.00	-14.15	QP
2	239.9873	6.09	18.73	24.82	46.00	-21.18	QP
3	333.6866	8.83	21.31	30.14	46.00	-15.86	QP
4	434.6000	52.70	23.99	76.69	80.85	-4.16	peak
5	711.6734	29.79	2.45	32.24	46.00	-13.76	QP
6	938.8325	30.41	2.59	33.00	46.00	-13.00	QP

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1~6GHz

433.4MHz

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	polarization
1	1300.200	72.22	-23.47	48.75	54.00	-5.25	peak	Vertical
2	3033.800	67.25	-16.44	50.81	54.00	-3.19	peak	Vertical
3	3467.200	64.62	-15.52	49.10	54.00	-4.90	peak	Vertical
4	1300.200	72.63	-23.47	49.16	54.00	-4.84	peak	Horizontal
5	3033.800	65.64	-16.44	49.20	54.00	-4.80	peak	Horizontal
6	3467.200	62.42	-15.52	46.90	54.00	-7.10	peak	Horizontal

434.6MHz

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	polarization
1	1303.800	59.72	-23.45	36.27	54.00	-17.73	peak	Vertical
2	1738.400	62.11	-24.17	37.94	54.00	-16.06	peak	Vertical
3	2173.000	58.23	-19.11	39.12	54.00	-14.88	peak	Vertical
4	1303.800	59.83	-23.45	36.38	54.00	-17.62	peak	Horizontal
5	1738.400	61.31	-24.17	37.14	54.00	-16.86	peak	Horizontal
6	2173.000	58.48	-19.11	39.37	54.00	-14.63	peak	Horizontal

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2 20dB Bandwidth

Measurement Data:

Frequency (MHz)	20dB bandwidth (kHz)	Limit (kHz)	Results
433.40	86.40	1083.50	Pass
434.60	204.05	1086.50	Pass

Test plot as follows:



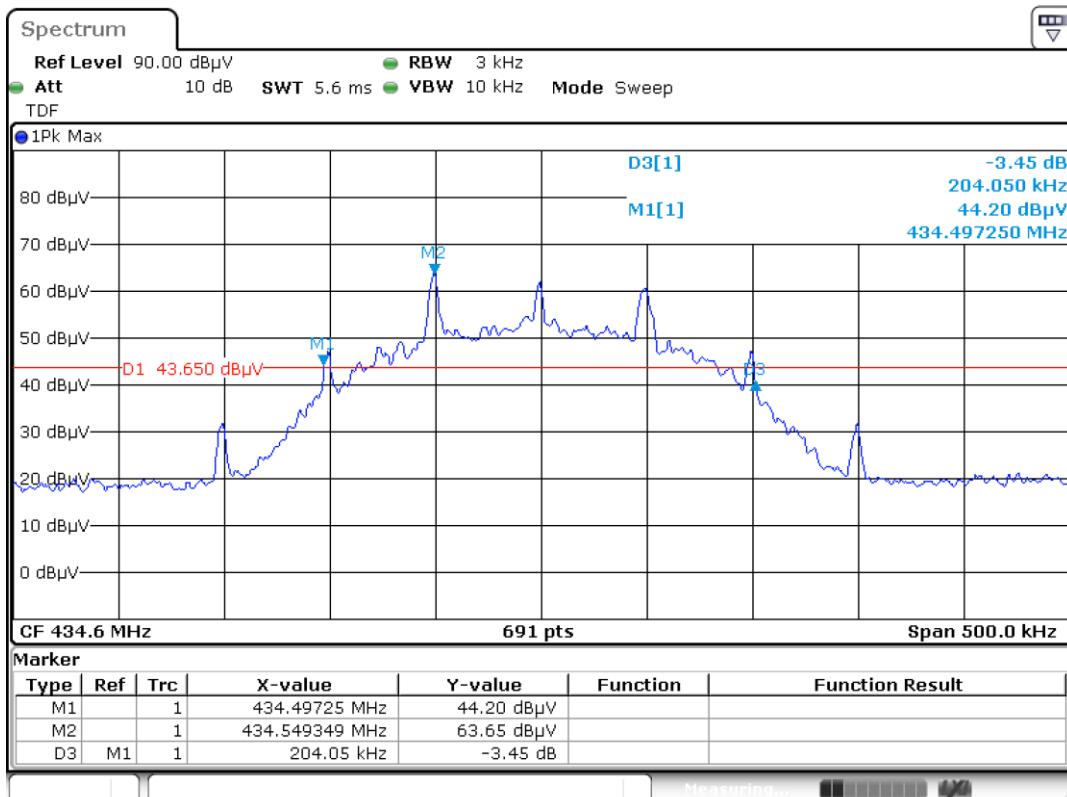
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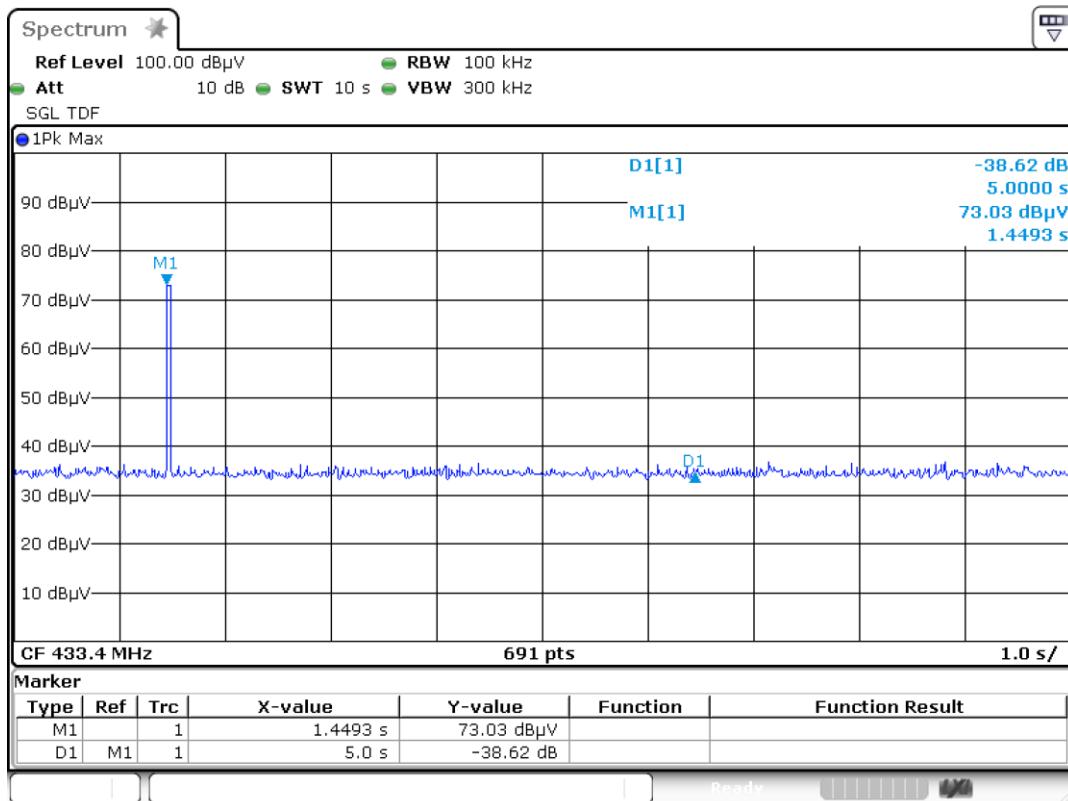
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3 Dwell Time

Measurement Data:

Test item	Limit (s)	Results
Transmission Duration	≤5s	Pass

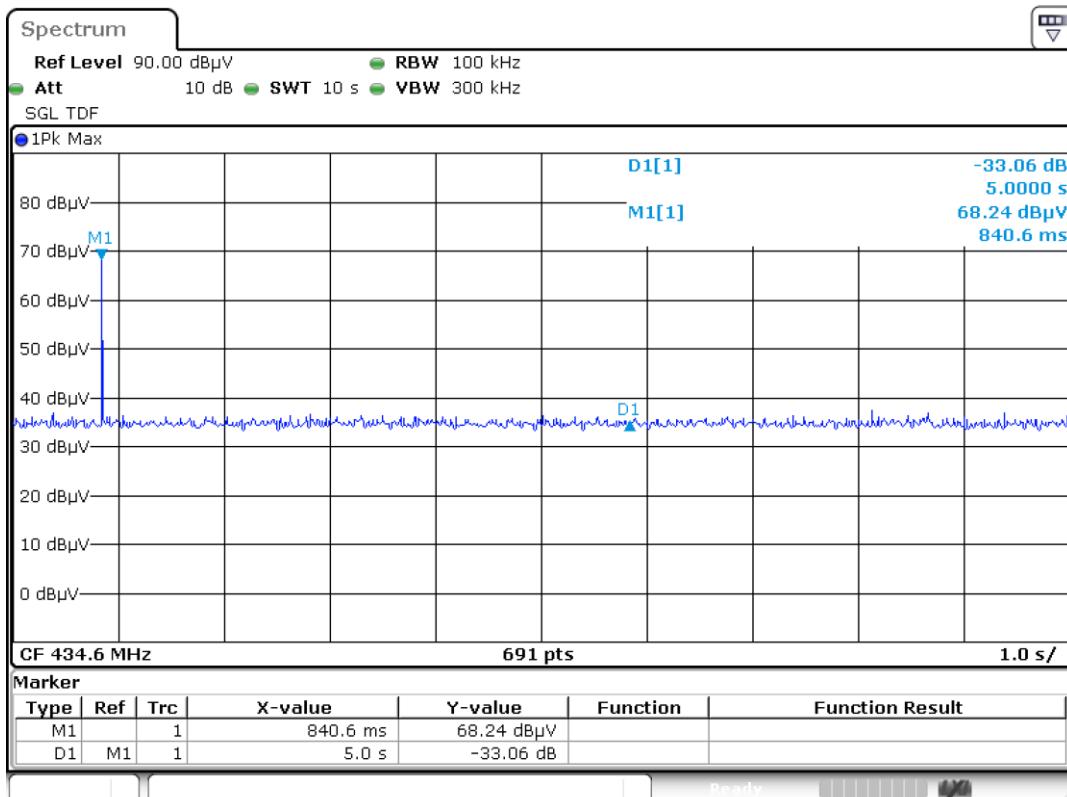
Test plot as follows:



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