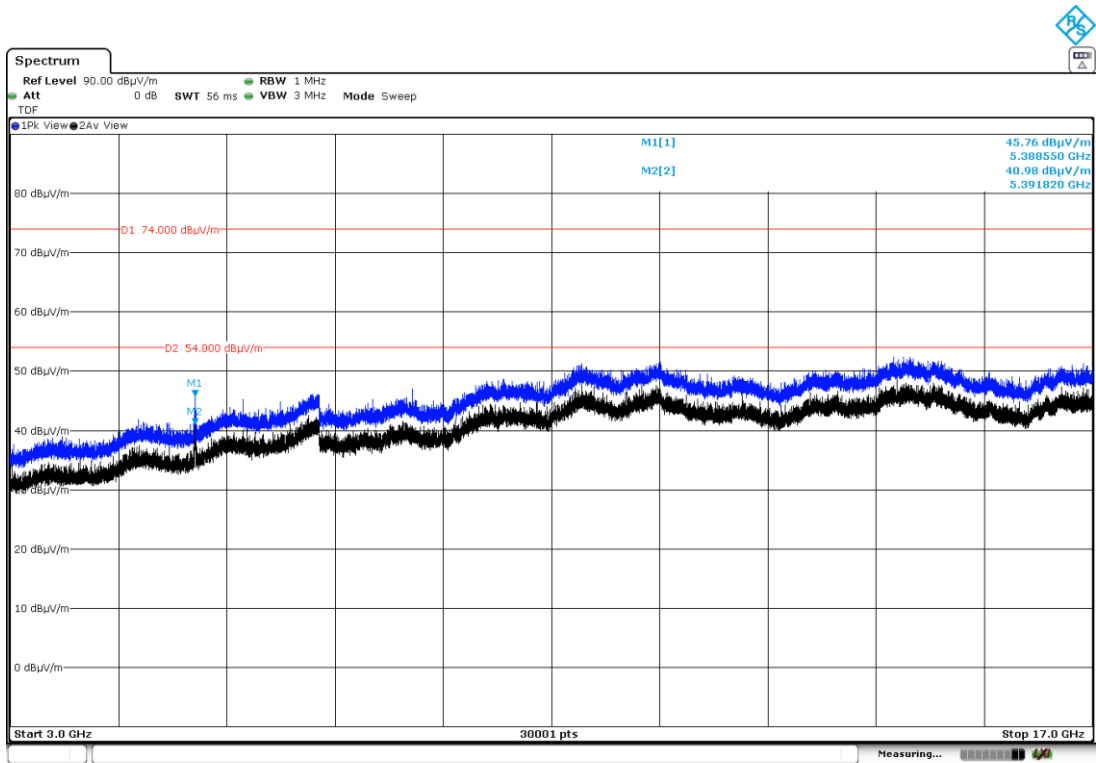
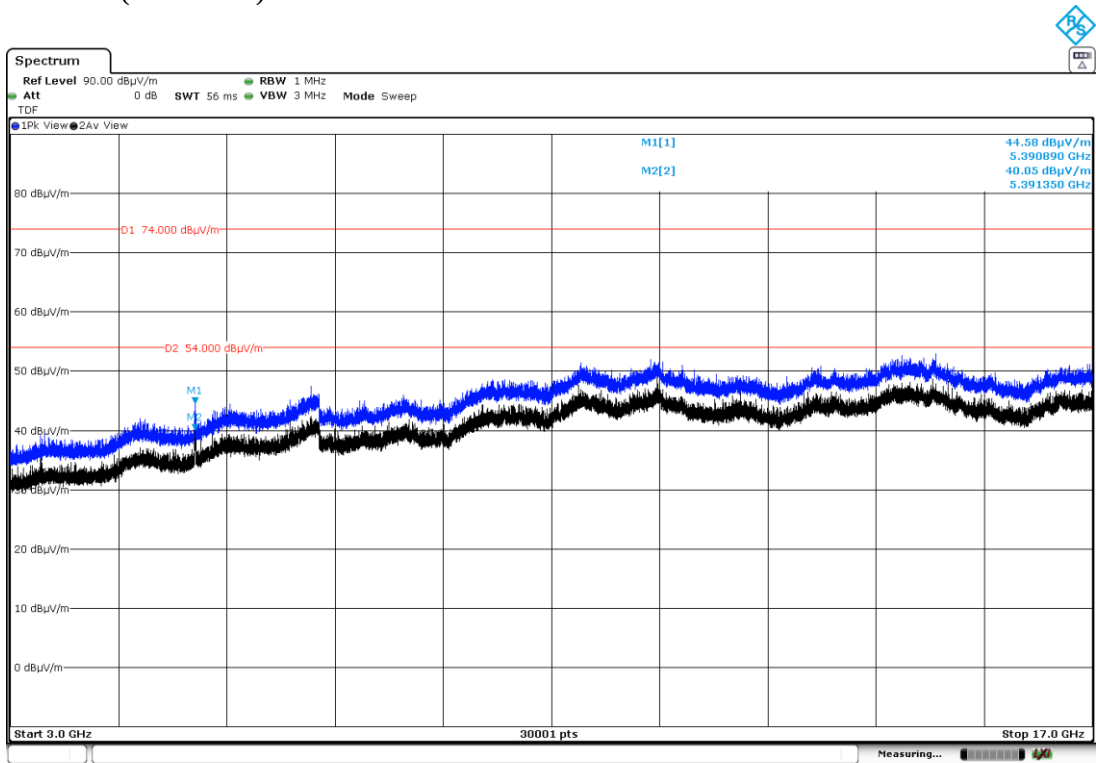


CHANNEL: Highest (2480 MHz).

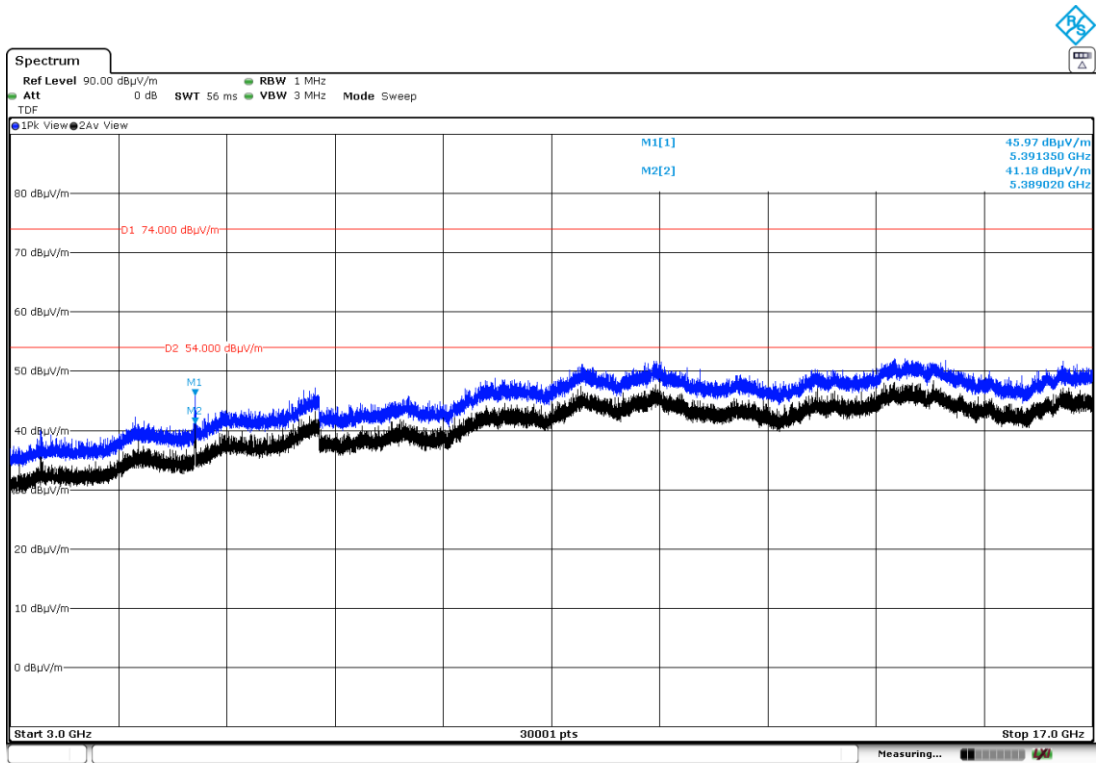


Modulation: Π/4-DQPSK

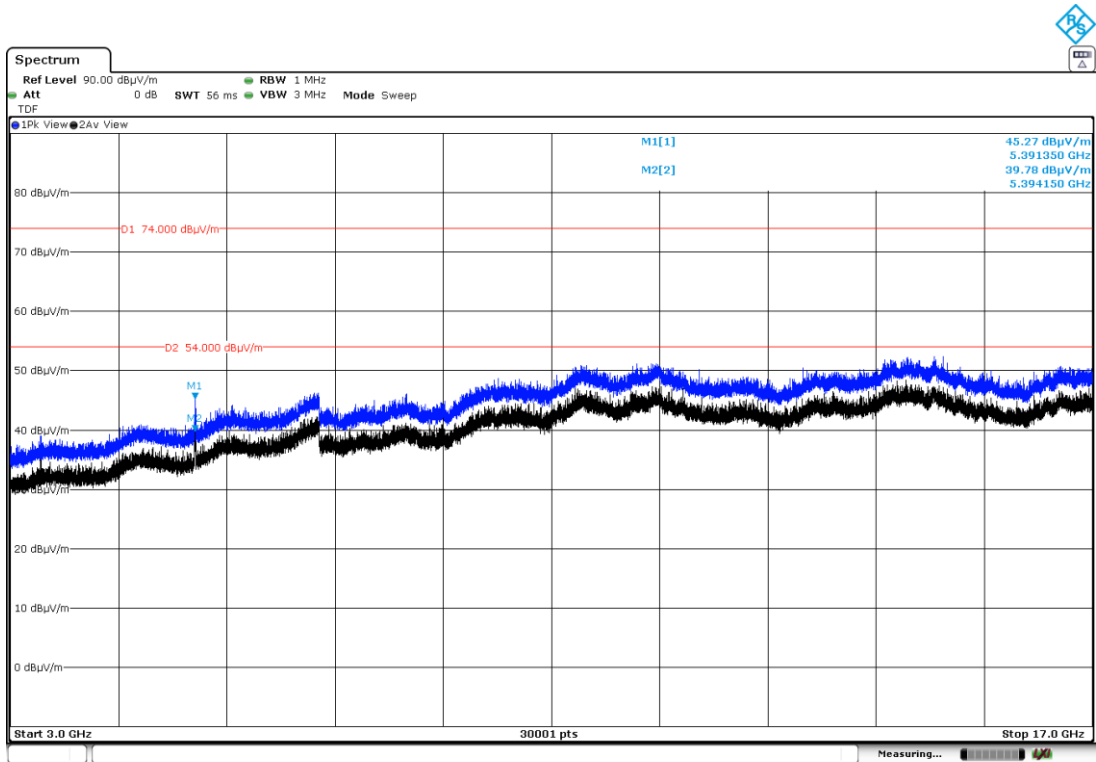
CHANNEL: Lowest (2402 MHz).



CHANNEL: Middle (2441 MHz).

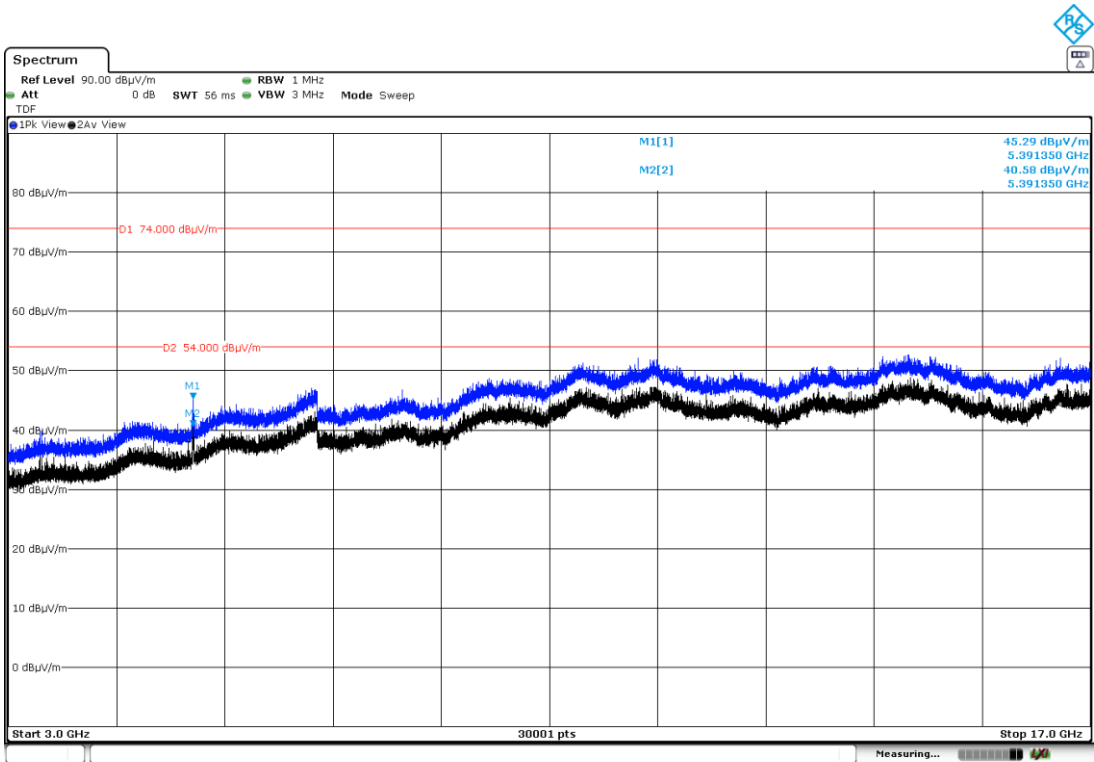


CHANNEL: Highest (2480 MHz).

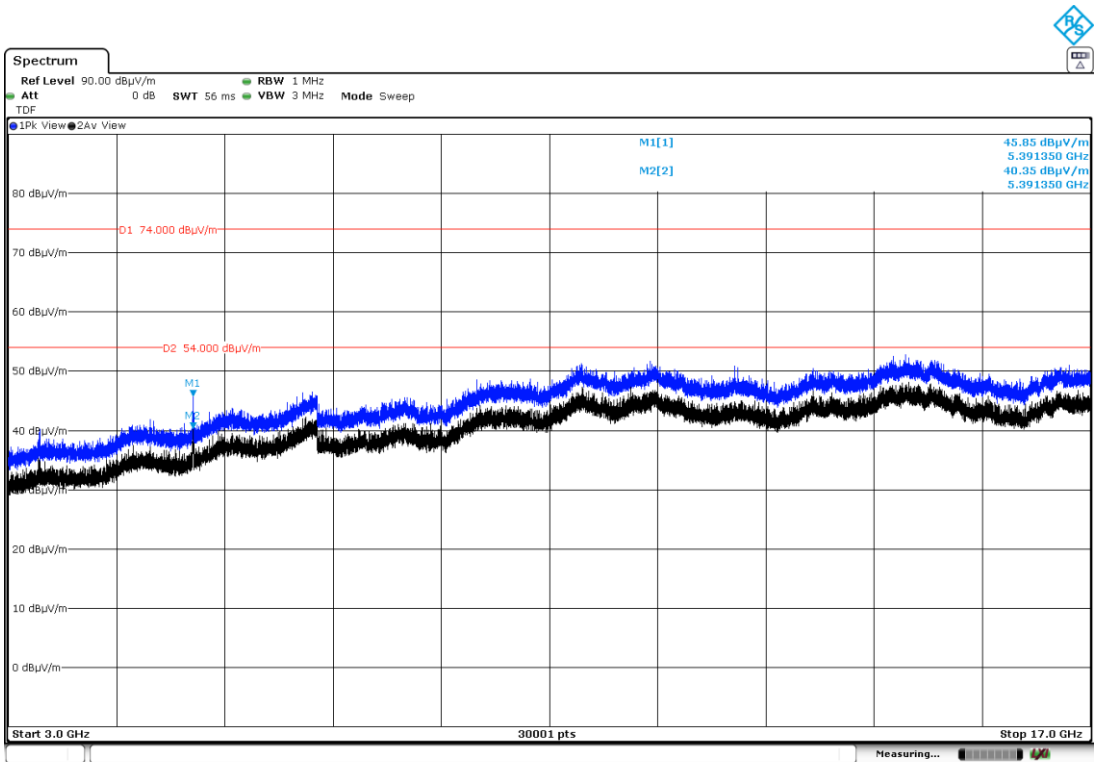


Modulation: 8-DPSK

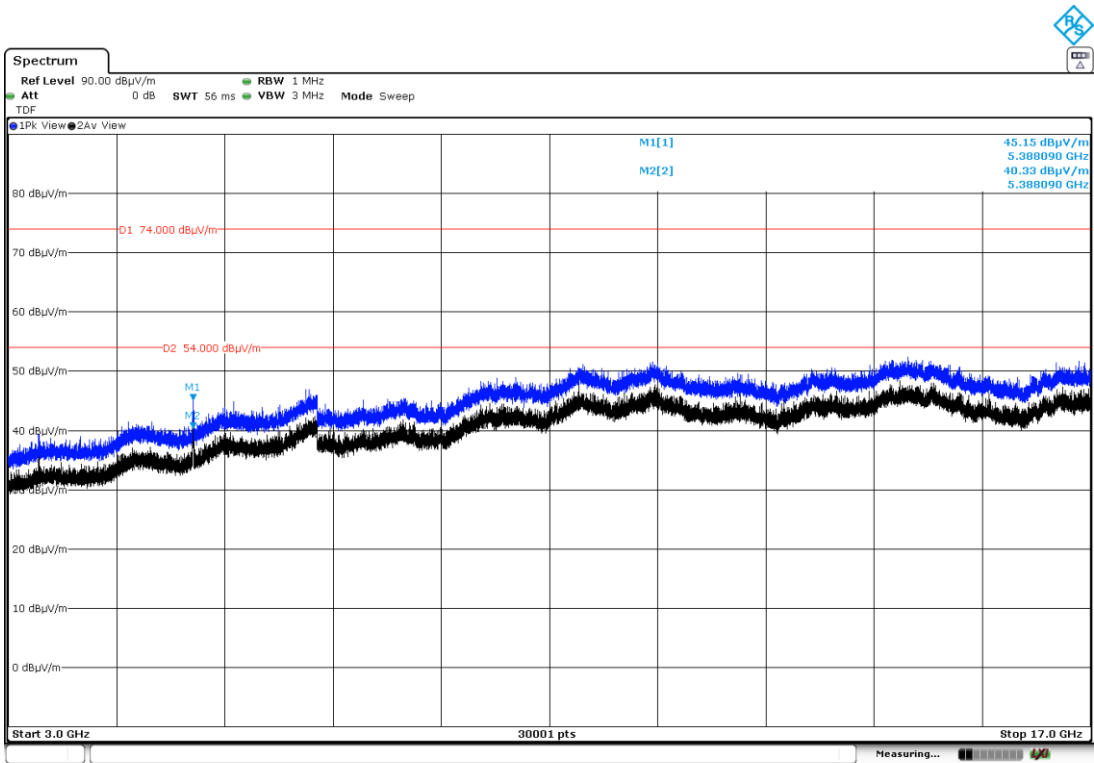
CHANNEL: Lowest (2402 MHz).



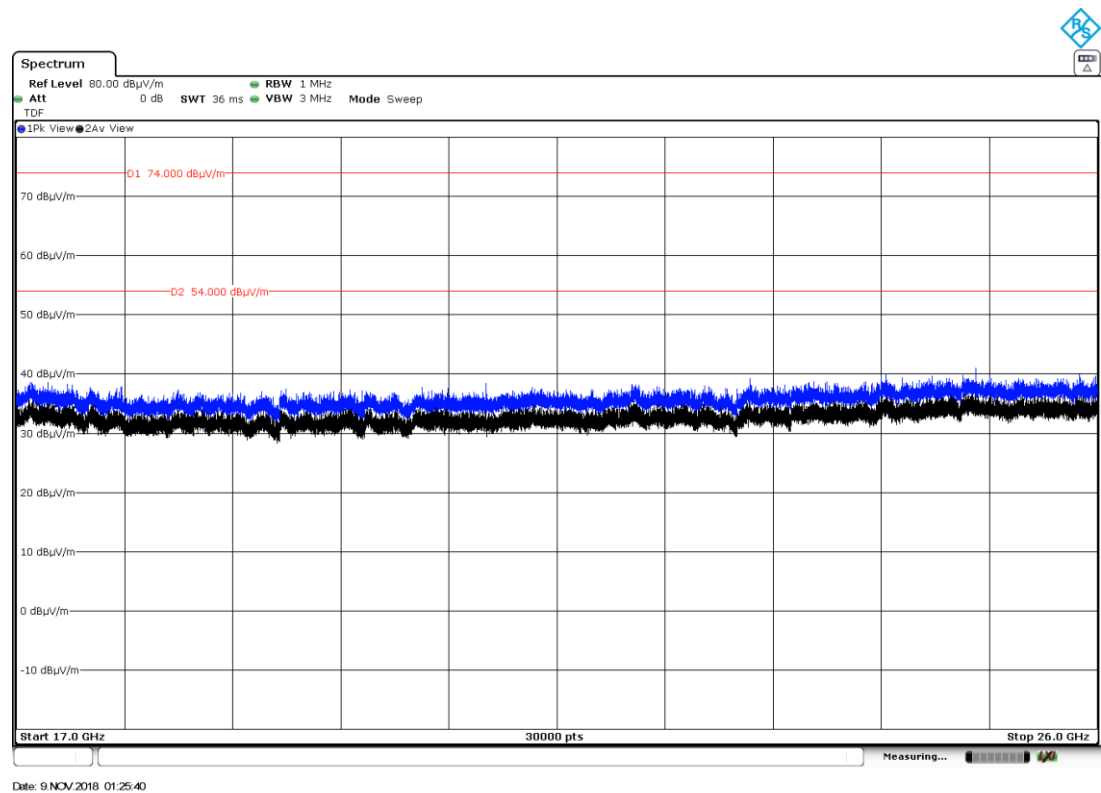
CHANNEL: Middle (2441 MHz).



CHANNEL: Highest (2480 MHz).



FREQUENCY RANGE 17 GHz to 26 GHz.



(This plot is valid for all three channels and all modulation modes).

FCC Section 15.247 Subclause (d) / RSS-247 5.5. Band-edge emissions compliance (Transmitter)

SPECIFICATION

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 this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) / RSS-Gen is not required.

RESULTS:

The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

The lower band edge is adjacent to a non-restricted band. The test receiver resolution bandwidth was set to 100 kHz and video bandwidth 300 kHz. A peak detector was used, sweep time was set to auto and trace mode was MAX HOLD to maximise the carrier level and out-of-band emissions. A marker was placed on the highest emission on both traces.

The upper band edge is adjacent to a restricted band. The test receiver resolution bandwidth was set to 1 MHz and video bandwidth 3 MHz. Peak and average measurements were performed with their respective detectors, sweep time auto and trace mode was MAX HOLD to maximise the carrier level and out-of-band emissions. A marker was placed on the highest emission on both traces.

For restricted band (2310 MHz-2390 MHz) the test receiver resolution bandwidth was set to 1 MHz and video bandwidth 3 MHz. Peak and average measurements were performed with their respective detectors, sweep time auto couple and trace mode was MAX HOLD.

Results for Hopping-Off Mode / DH5

Results: lower and upper Band Edge

Frequency (MHz)	Polarization	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2400	Vertical	65.42	92.18*	26.76	<±3.05	PASS
2483.592	Vertical	57.78	74	16.22	<±3.05	PASS

(*): -20 dBc limit.

Frequency (MHz)	Polarization	Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2483.702	Vertical	51.67	54	2.33	<±3.05	PASS

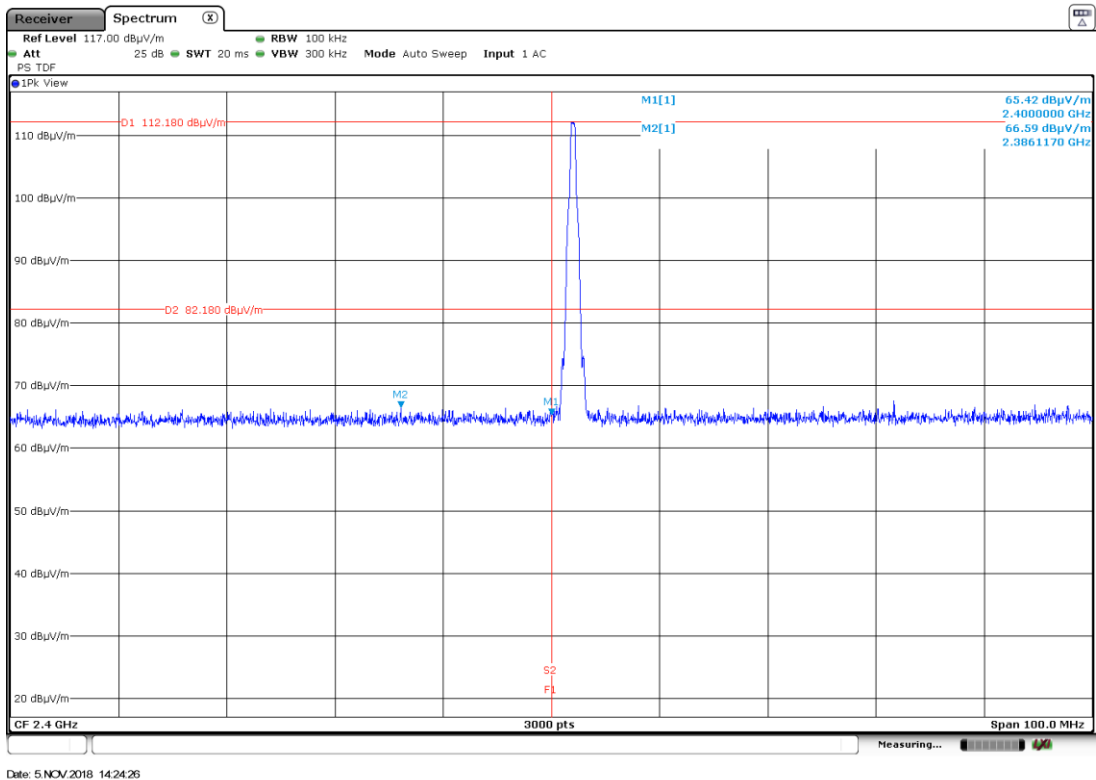
Results: 2310 MHz to 2390 MHz Restricted Band (Peak)

Frequency (MHz)	Polarization	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2364.760	Vertical	53.11	74.0	20.89	<±3.05	PASS

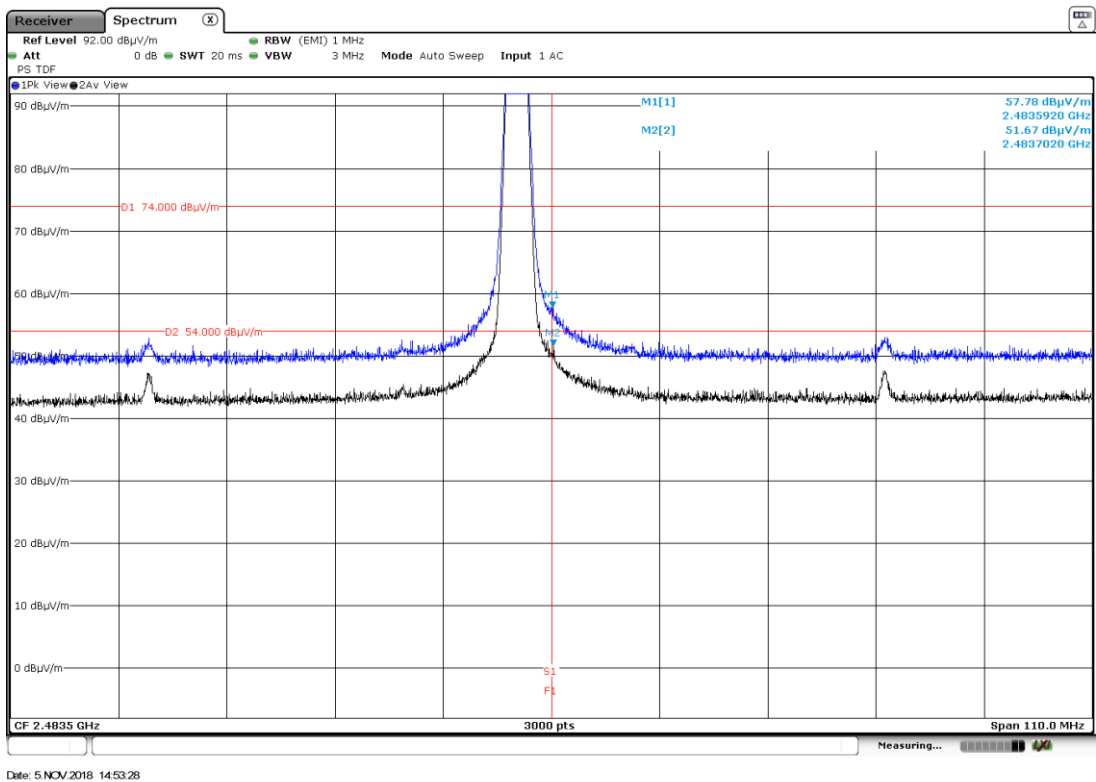
Results: 2310 MHz to 2390 MHz Restricted Band (Average)

Frequency (MHz)	Polarization	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2364.600	Vertical	46.93	54.0	7.07	<±3.05	PASS

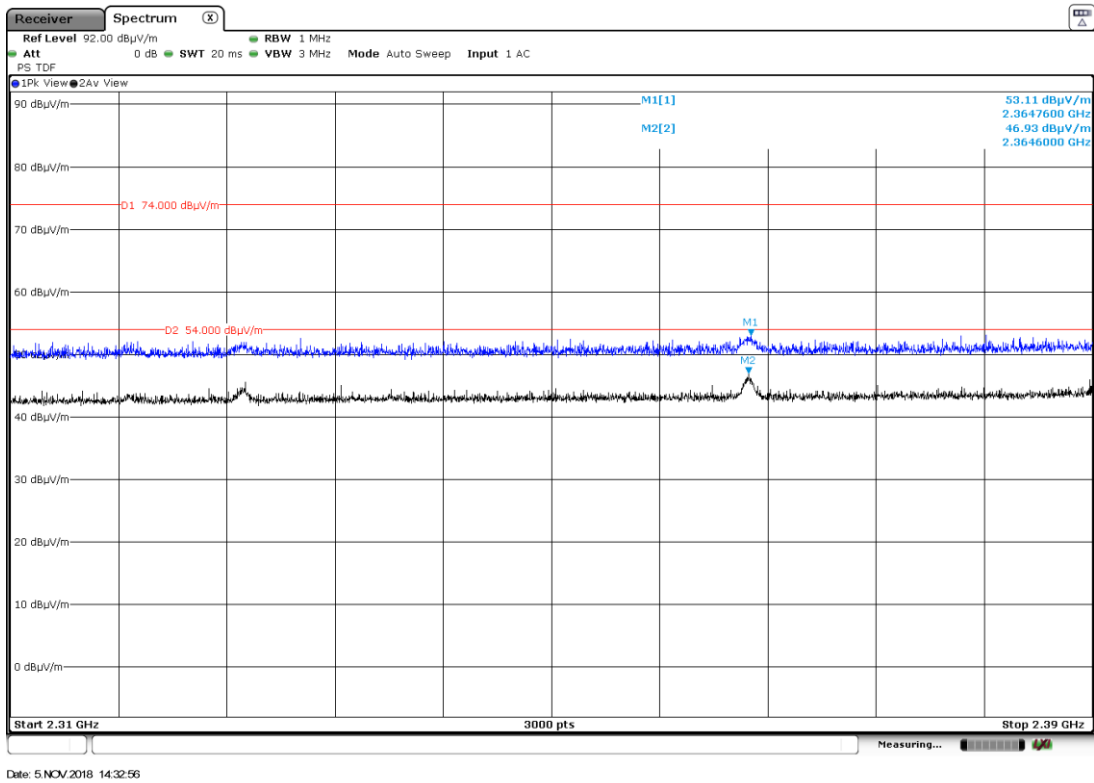
Lower Band Edge



Upper Band Edge



2310 MHz to 2390 MHz Restricted Band



Results for Hopping Mode / DH5

Results: lower and upper Band Edge

Frequency (MHz)	Polarization	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2400	Vertical	66.13	92.60*	26.47	<±3.05	PASS
2484.765	Vertical	59.21	74	14.79	<±3.05	PASS

(*): -20 dBc limit.

Frequency (MHz)	Polarization	Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2484.362	Vertical	49.41	54	4.59	<±3.05	PASS

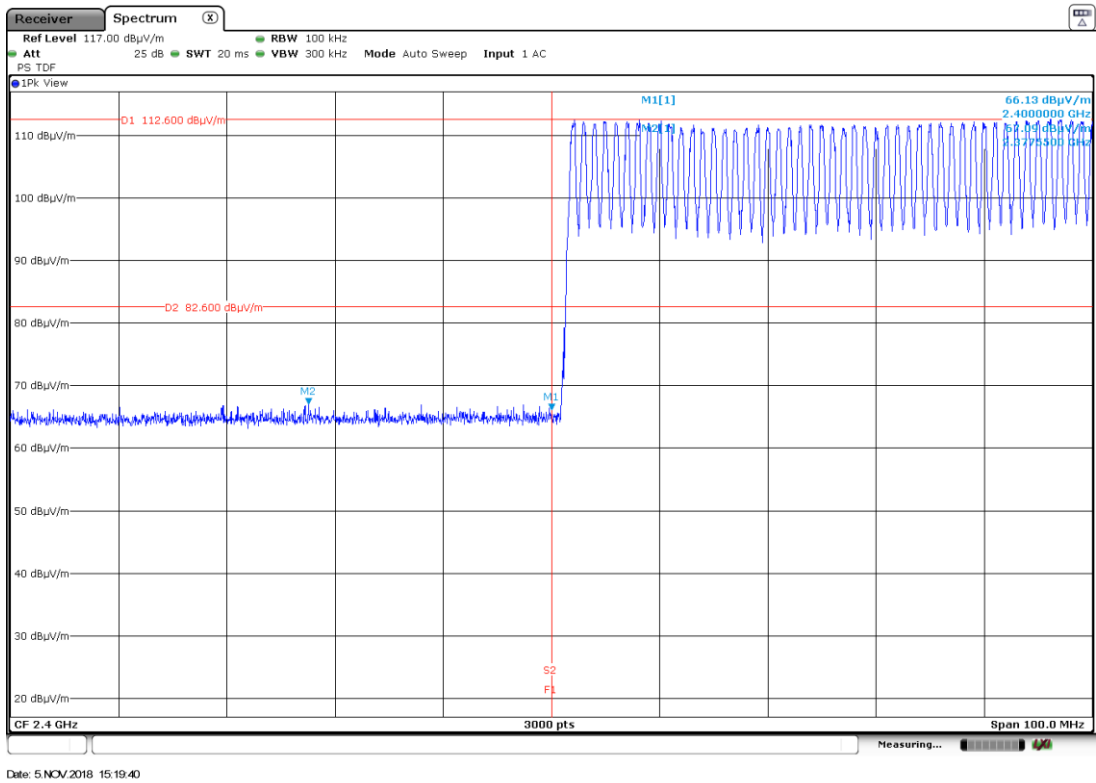
Results: 2310 MHz to 2390 MHz Restricted Band (Peak)

Frequency (MHz)	Polarization	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2385.187	Vertical	52.89	74.0	21.11	<±3.05	PASS

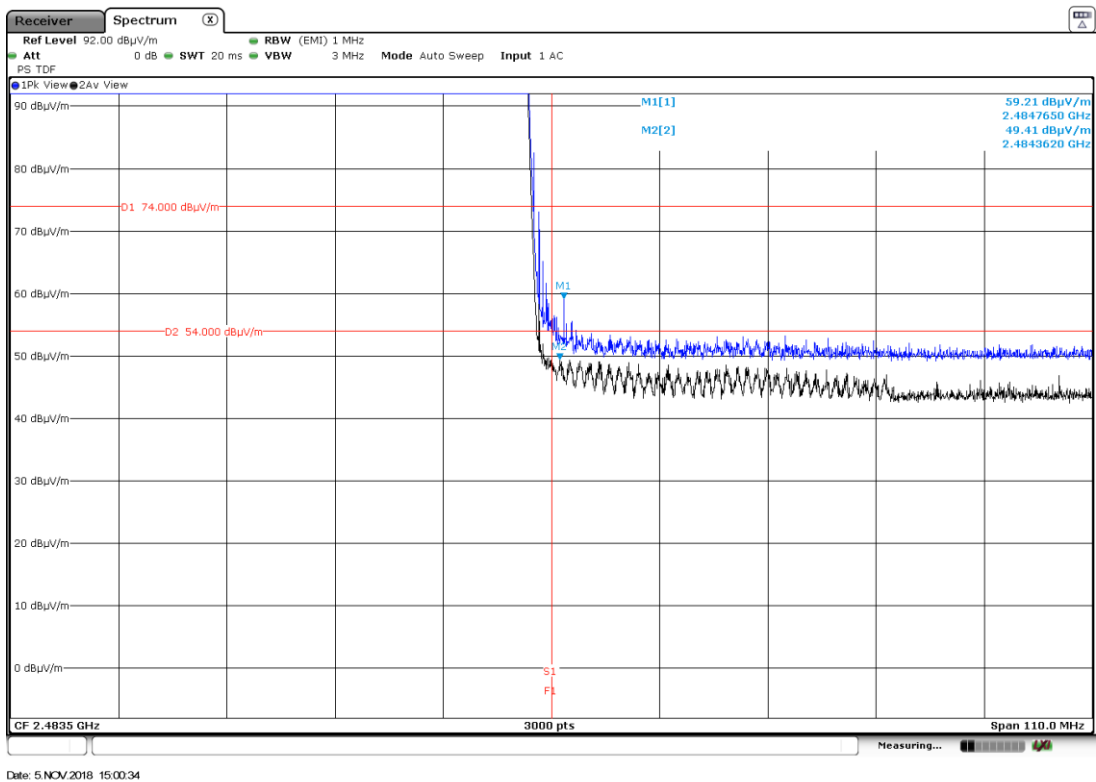
Results: 2310 MHz to 2390 MHz Restricted Band (Average)

Frequency (MHz)	Polarization	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2377.480	Vertical	46.74	54.0	7.26	<±3.05	PASS

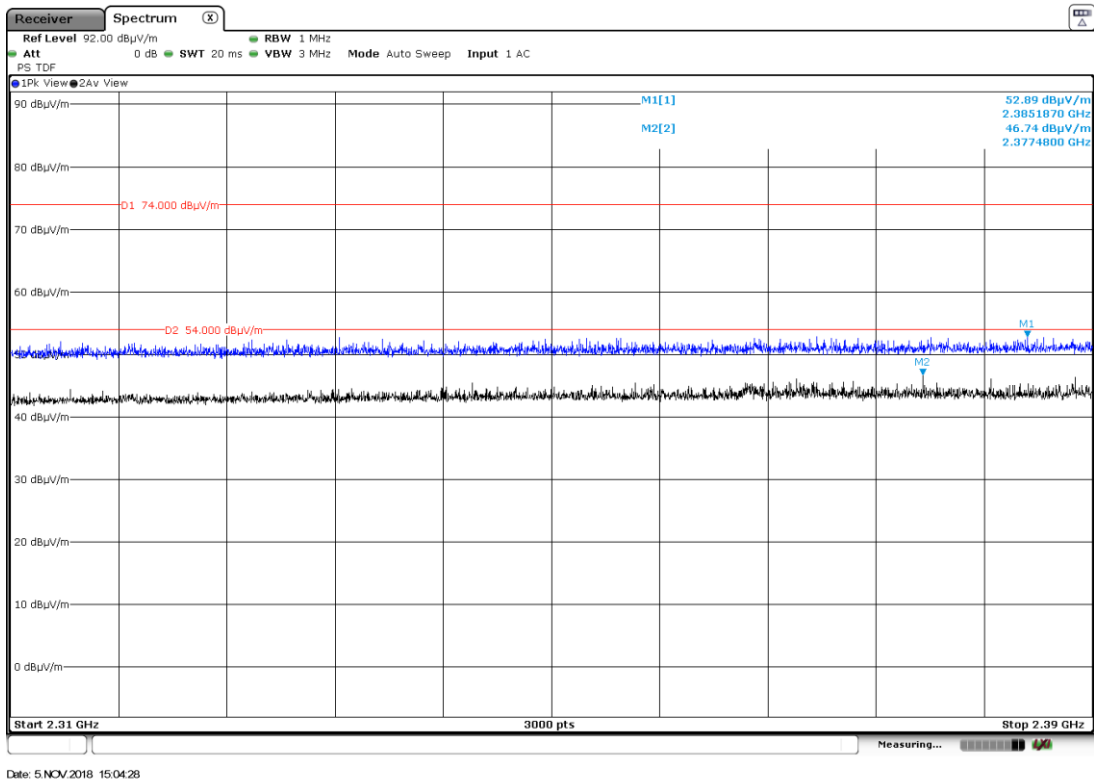
Lower Band Edge



Upper Band Edge



2310 MHz to 2390 MHz Restricted Band



Results for Hopping-Off Mode / 2DH5

Results: lower and upper Band Edge

Frequency (MHz)	Polarization	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2400	Vertical	64.75	87.84*	23.09	<±3.05	PASS
2483.518	Vertical	56.97	74	17.03	<±3.05	PASS

(*): -20 dBc limit.

Frequency (MHz)	Polarization	Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2483.665	Vertical	48.60	54	5.40	<±3.05	PASS

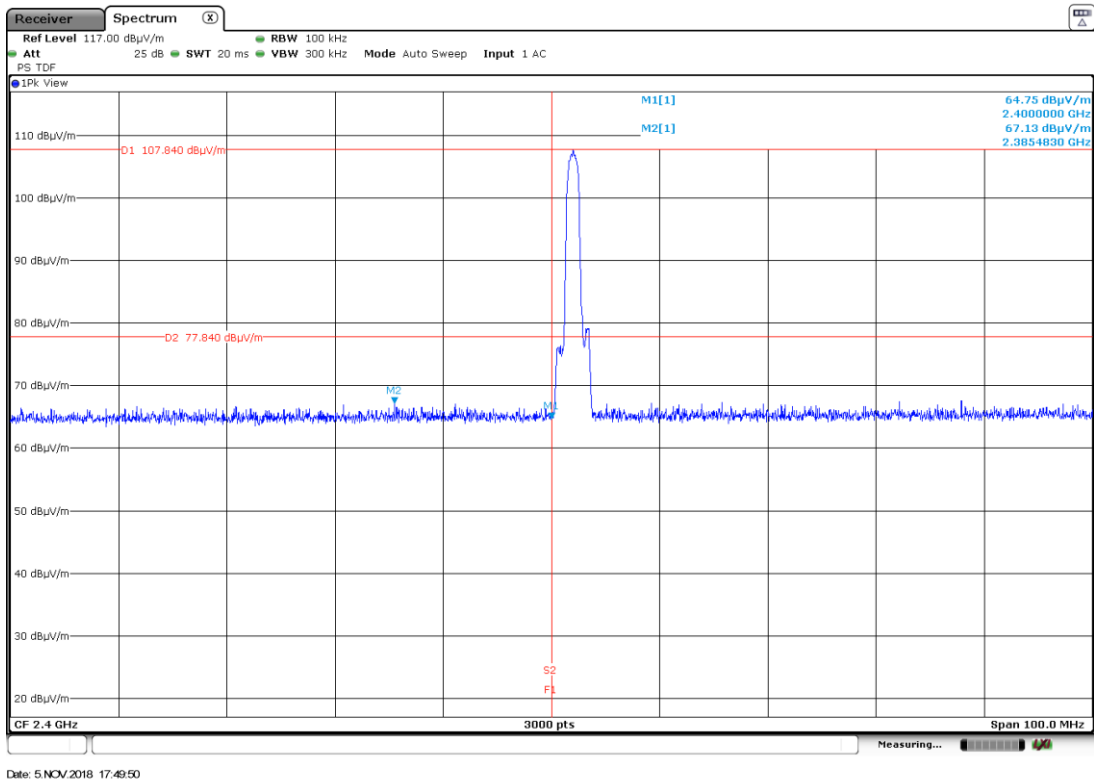
Results: 2310 MHz to 2390 MHz Restricted Band (Peak)

Frequency (MHz)	Polarization	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2364.653	Vertical	54.21	74.0	19.79	<±3.05	PASS

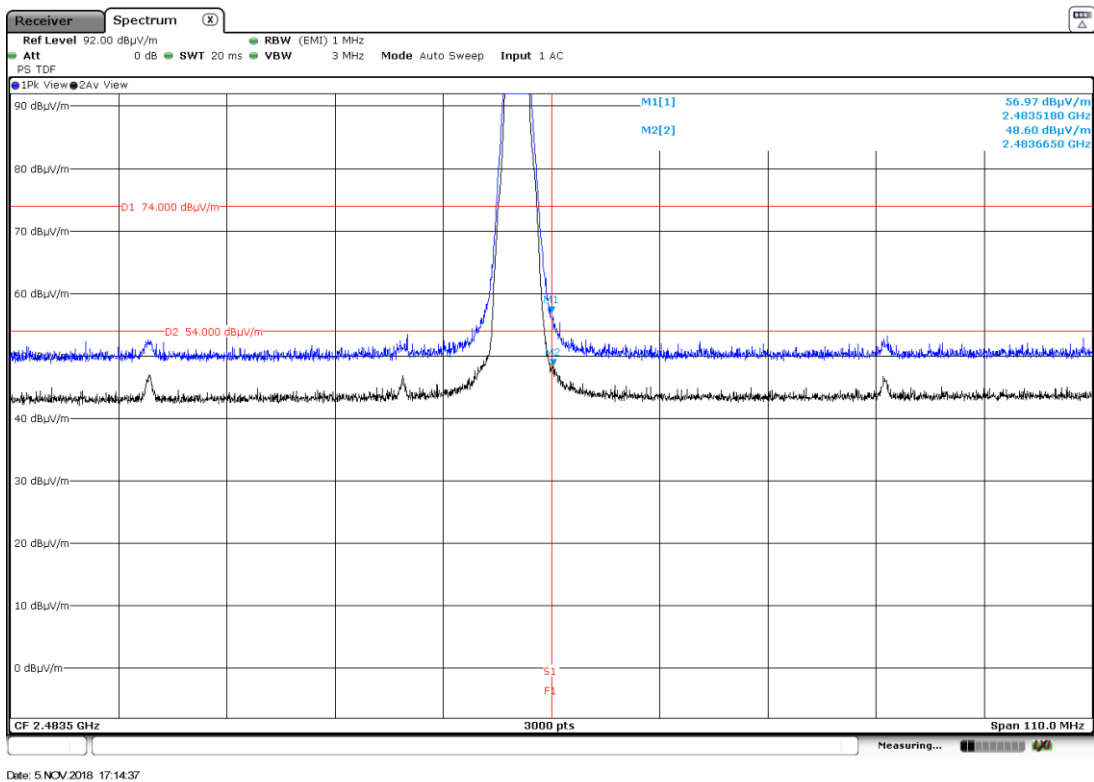
Results: 2310 MHz to 2390 MHz Restricted Band (Average)

Frequency (MHz)	Polarization	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2364.733	Vertical	46.86	54.0	7.14	<±3.05	PASS

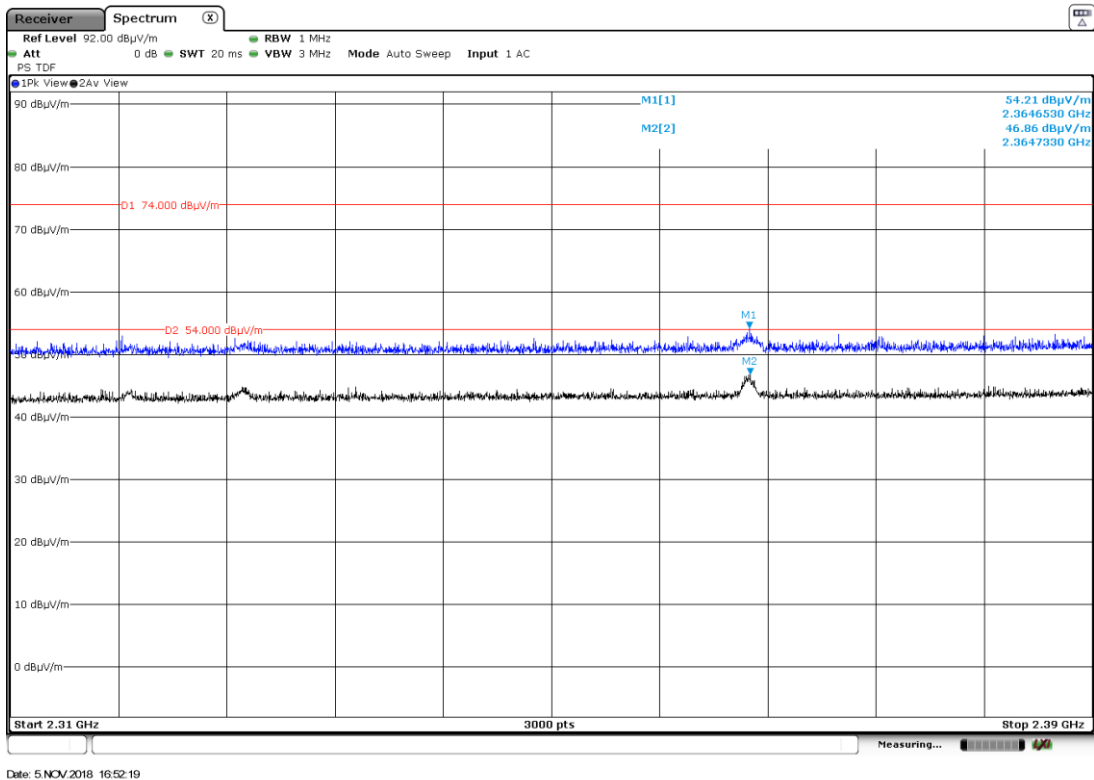
Lower Band Edge



Upper Band Edge



2310 MHz to 2390 MHz Restricted Band



Results for Hopping Mode / 2DH5

Results: lower and upper Band Edge

Frequency (MHz)	Polarization	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2400	Vertical	65.01	89.22*	24.21	<±3.05	PASS
2483.518	Vertical	53.48	74	20.52	<±3.05	PASS

(*): -20 dBc limit.

Frequency (MHz)	Polarization	Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2488.358	Vertical	46.94	54	7.06	<±3.05	PASS

Results: 2310 MHz to 2390 MHz Restricted Band (Peak)

Frequency (MHz)	Polarization	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2366.893	Horizontal	53.32	74.0	20.68	<±3.05	PASS

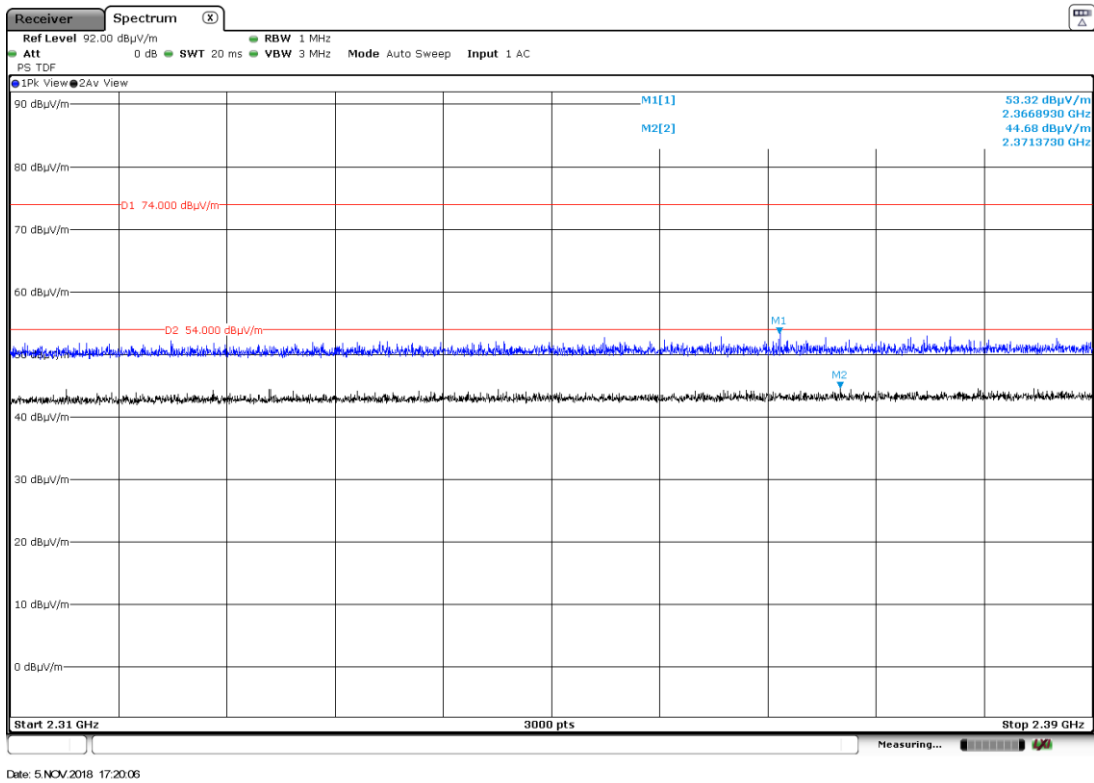
Results: 2310 MHz to 2390 MHz Restricted Band (Average)

Frequency (MHz)	Polarization	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2371.373	Horizontal	44.68	54.0	9.32	<±3.05	PASS

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2310 MHz to 2390 MHz Restricted Band



Results for Hopping-Off Mode / 3DH5

Results: lower and upper Band Edge

Frequency (MHz)	Polarization	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2400	Vertical	64.77	88.11*	23.34	<±3.05	PASS
2483.885	Vertical	55.09	74	18.91	<±3.05	PASS

(*): -20 dBc limit.

Frequency (MHz)	Polarization	Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2483.738	Vertical	48.01	54	5.48	<±3.05	PASS

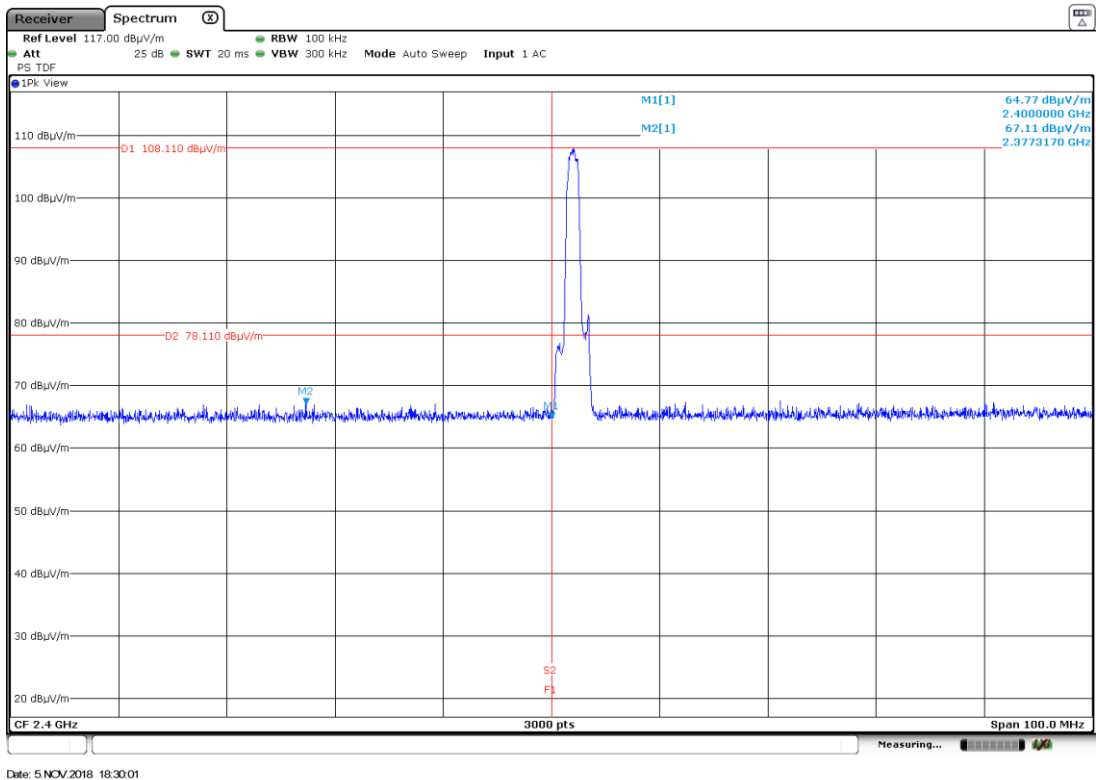
Results: 2310 MHz to 2390 MHz Restricted Band (Peak)

Frequency (MHz)	Polarization	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2364.520	Vertical	53.52	74.0	20.48	<±3.05	PASS

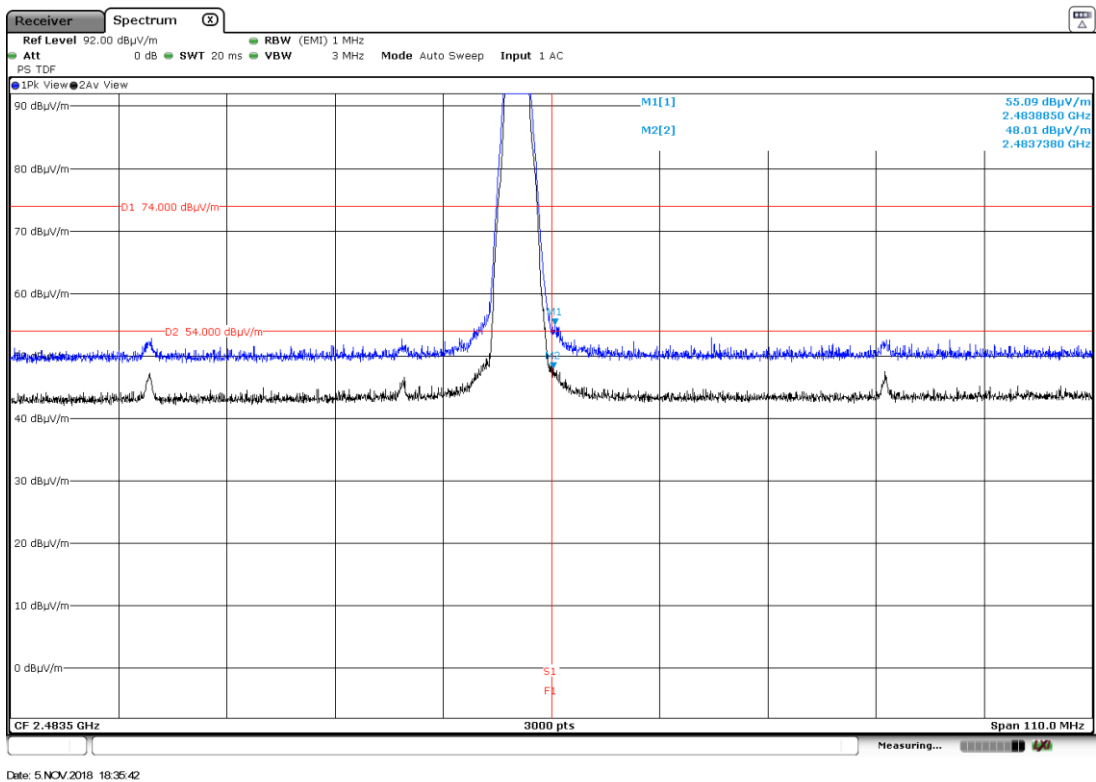
Results: 2310 MHz to 2390 MHz Restricted Band (Average)

Frequency (MHz)	Polarization	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2364.387	Vertical	47.36	54.0	6.64	<±3.05	PASS

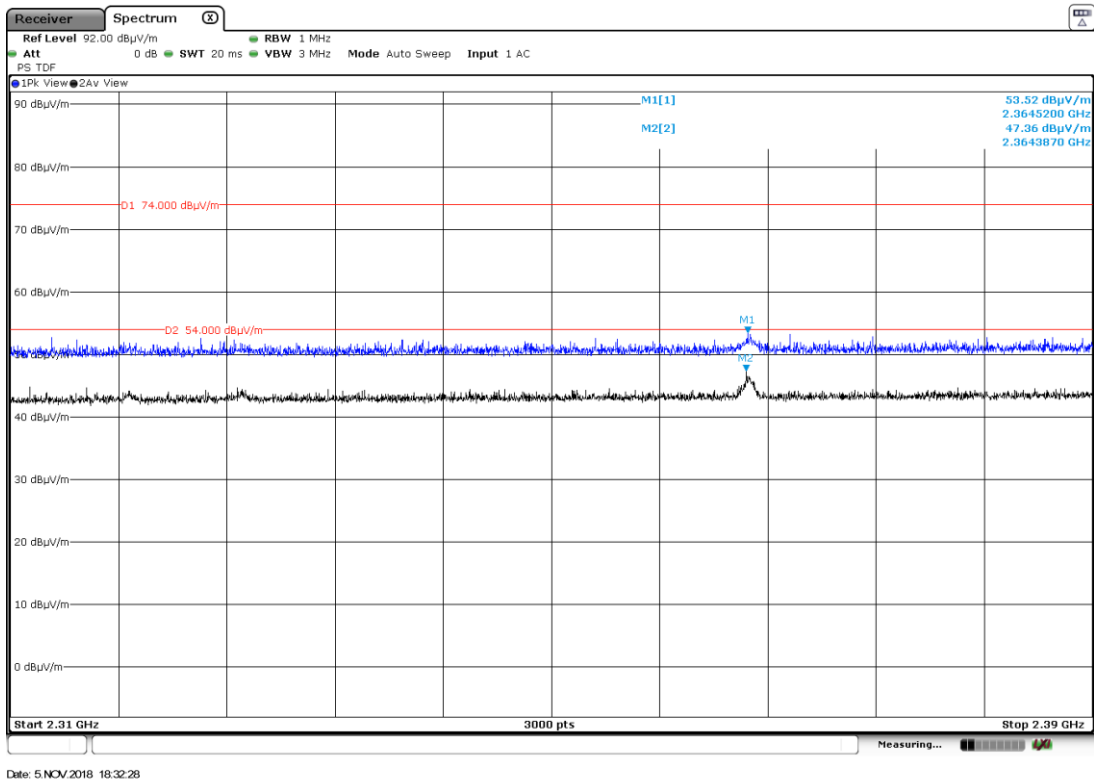
Lower Band Edge



Upper Band Edge



2310 MHz to 2390 MHz Restricted Band



Results for Hopping Mode / 3DH5

Results: lower and upper Band Edge

Frequency (MHz)	Polarization	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2400	Horizontal	65.36	89.67*	24.31	<±3.05	PASS
2485.168	Vertical	55.11	74	18.89	<±3.05	PASS

(*): -20 dBc limit.

Frequency (MHz)	Polarization	Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2513.328	Vertical	48.52	54	5.48	<±3.05	PASS

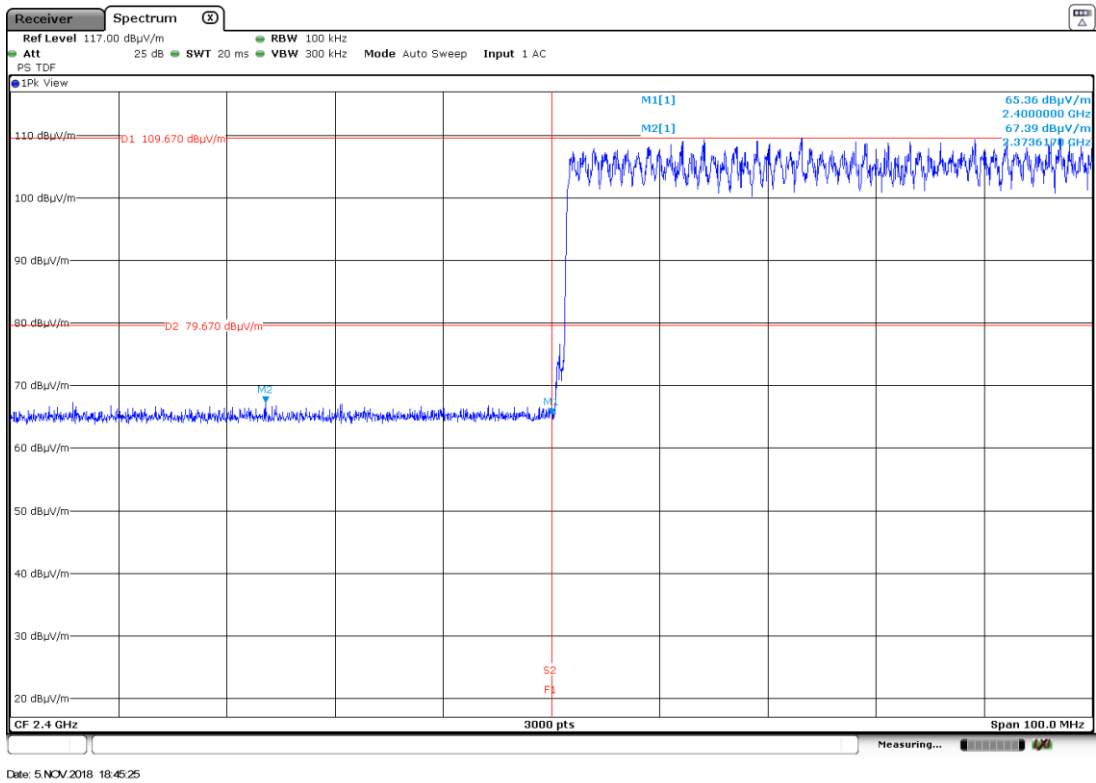
Results: 2310 MHz to 2390 MHz Restricted Band (Peak)

Frequency (MHz)	Polarization	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2372.067	Vertical	53.11	74.0	20.89	<±3.05	PASS

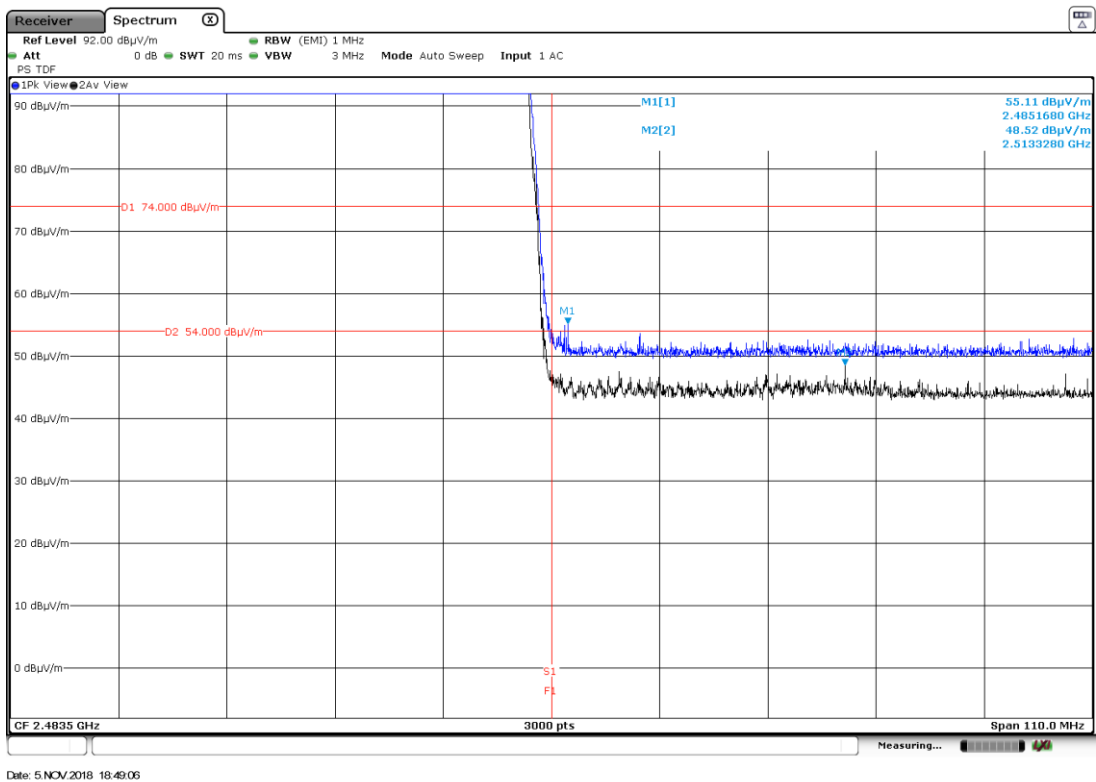
Results: 2310 MHz to 2390 MHz Restricted Band (Average)

Frequency (MHz)	Polarization	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
2374.787	Vertical	46.47	54.0	7.53	<±3.05	PASS

Lower Band Edge



Upper Band Edge



2310 MHz to 2390 MHz Restricted Band

