

Dwell Time

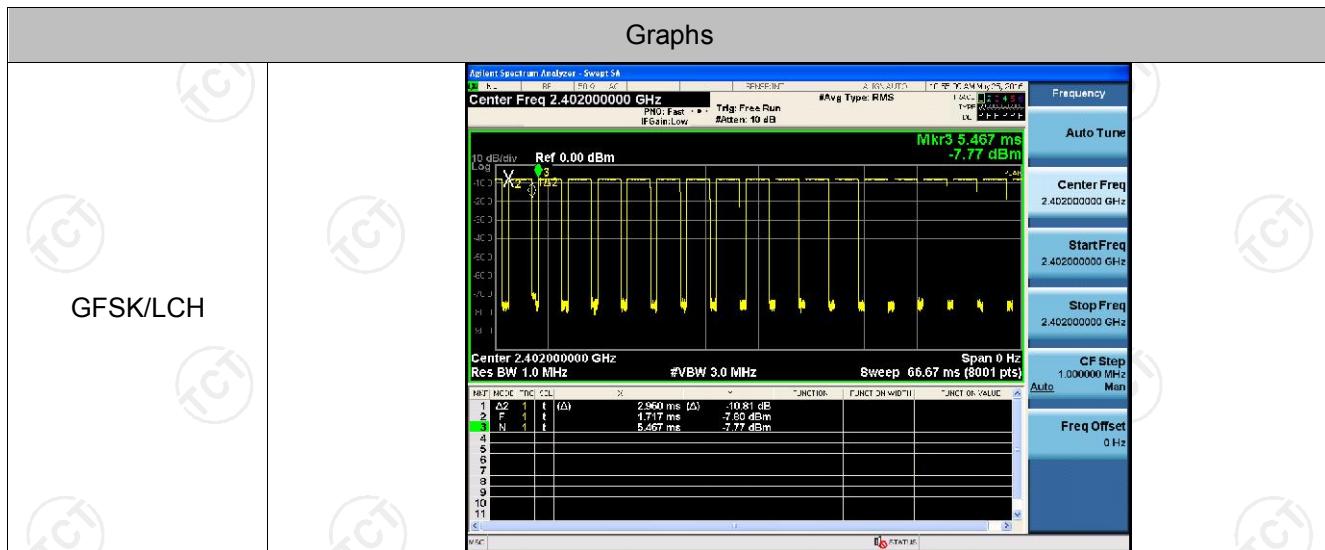
Result Table

The Dwell Time=Burst Width*Total Hops. The detailed calculations are showed as follows:

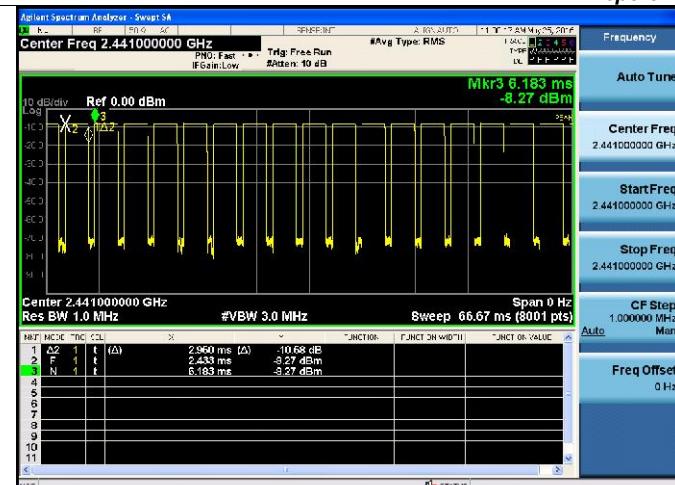
- The duration for dwell time calculation: $0.4[\text{s}]*\text{hopping number}=0.4[\text{s}]*79[\text{ch}]=31.6[\text{s}*\text{ch}]$;
- The burst width [ms/hop/ch], which is directly measured, refers to the duration on one channel hop.
- The hops per second for all channels: The selected EUT Conf uses a slot type of 5-Tx&1-Rx and a hopping rate of 1600 [ch*hop/s] for all channels. So the final hopping rate for all channels is $1600/6=266.67[\text{ch}*\text{hop}/\text{s}]$
- The hops per second on one channel: $266.67[\text{ch}*\text{hop}/\text{s}]/79[\text{ch}]=3.38[\text{hop}/\text{s}]$;
- The total hops for all channels within the dwell time calculation duration: $3.38[\text{hop}/\text{s}]*31.6[\text{s}*\text{ch}]=106.67[\text{hop}*\text{ch}]$;
- The dwell time for all channels hopping: $106.67[\text{hop}*\text{ch}]*\text{Burst Width}[\text{ms}/\text{hop}/\text{ch}]$.

Mode	Channel	Burst Width [ms/hop/ch]	Total Hops [hop*ch]	Dwell Time [s]	Duty Cycle [%]	Verdict
GFSK	LCH	2.95	106.7	0.315	78.67	PASS
GFSK	MCH	2.95	106.7	0.315	78.67	PASS
GFSK	HCH	2.95	106.7	0.315	78.67	PASS
$\pi/4$ DQPSK	LCH	2.933	106.7	0.313	78.22	PASS
$\pi/4$ DQPSK	MCH	2.942	106.7	0.314	78.44	PASS
$\pi/4$ DQPSK	HCH	2.933	106.7	0.313	78.22	PASS

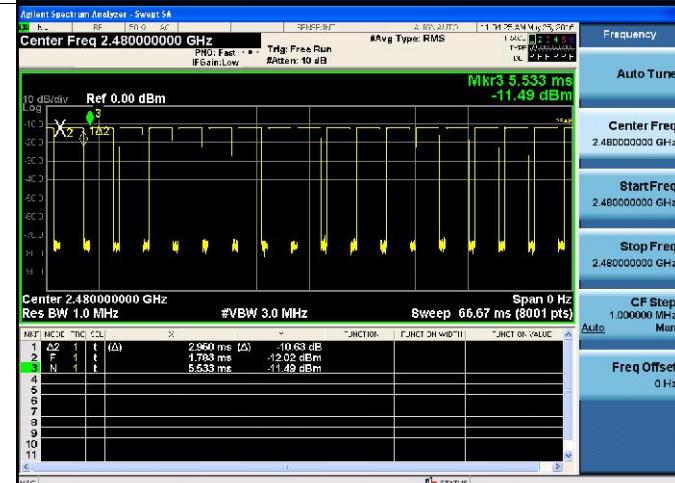
Test Graph



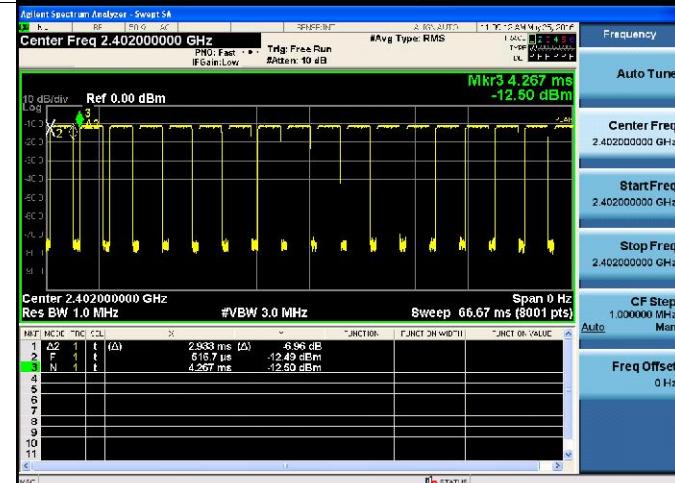
GFSK/MCH



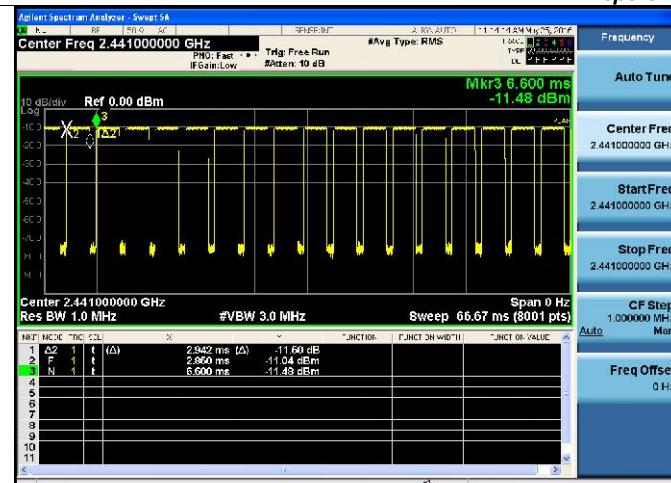
GFSK/HCH



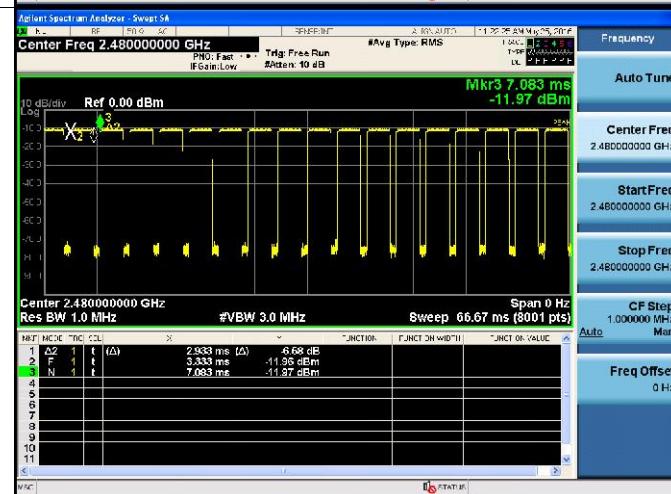
π/4DQPSK/LCH



$\pi/4$ DQPSK/MCH



$\pi/4$ DQPSK/HCH

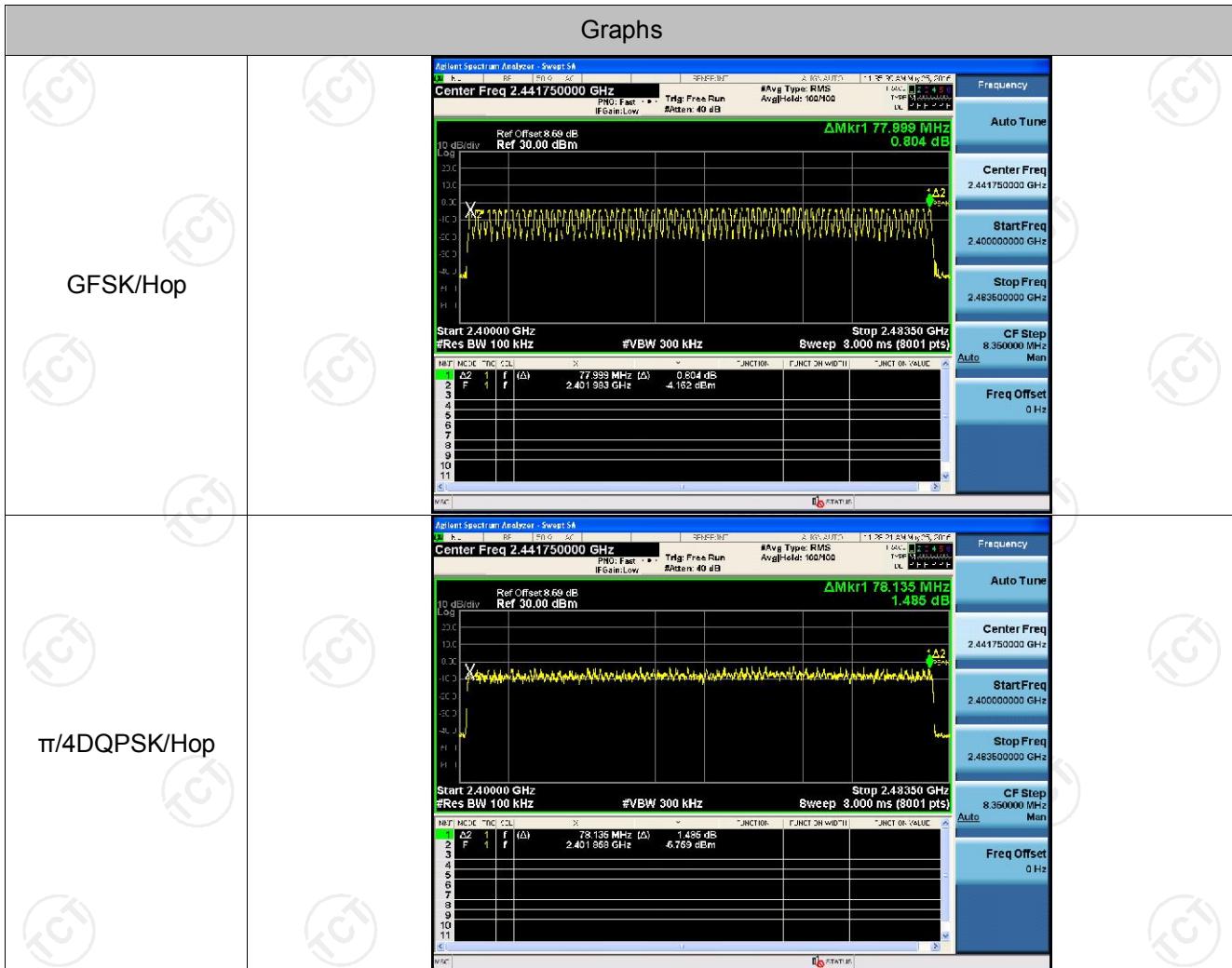


Hopping Channel Number

Result Table

Mode	Channel.	Number of Hopping Channel	Verdict
GFSK	Hop	79	PASS
$\pi/4$ DQPSK	Hop	79	PASS

Test Graph



Conducted Peak Output Power

Result Table

Mode	Channel.	Maximum Peak Output Power [dBm]	Verdict
GFSK	LCH	1.024	PASS
GFSK	MCH	0.764	PASS
GFSK	HCH	-2.713	PASS
$\pi/4$ DQPSK	LCH	-1.083	PASS
$\pi/4$ DQPSK	MCH	-0.548	PASS
$\pi/4$ DQPSK	HCH	-0.740	PASS

Test Graph



GFSK/HCH



π/4DQPSK/LCH



π/4DQPSK/MCH



$\pi/4$ DQPSK/HCH

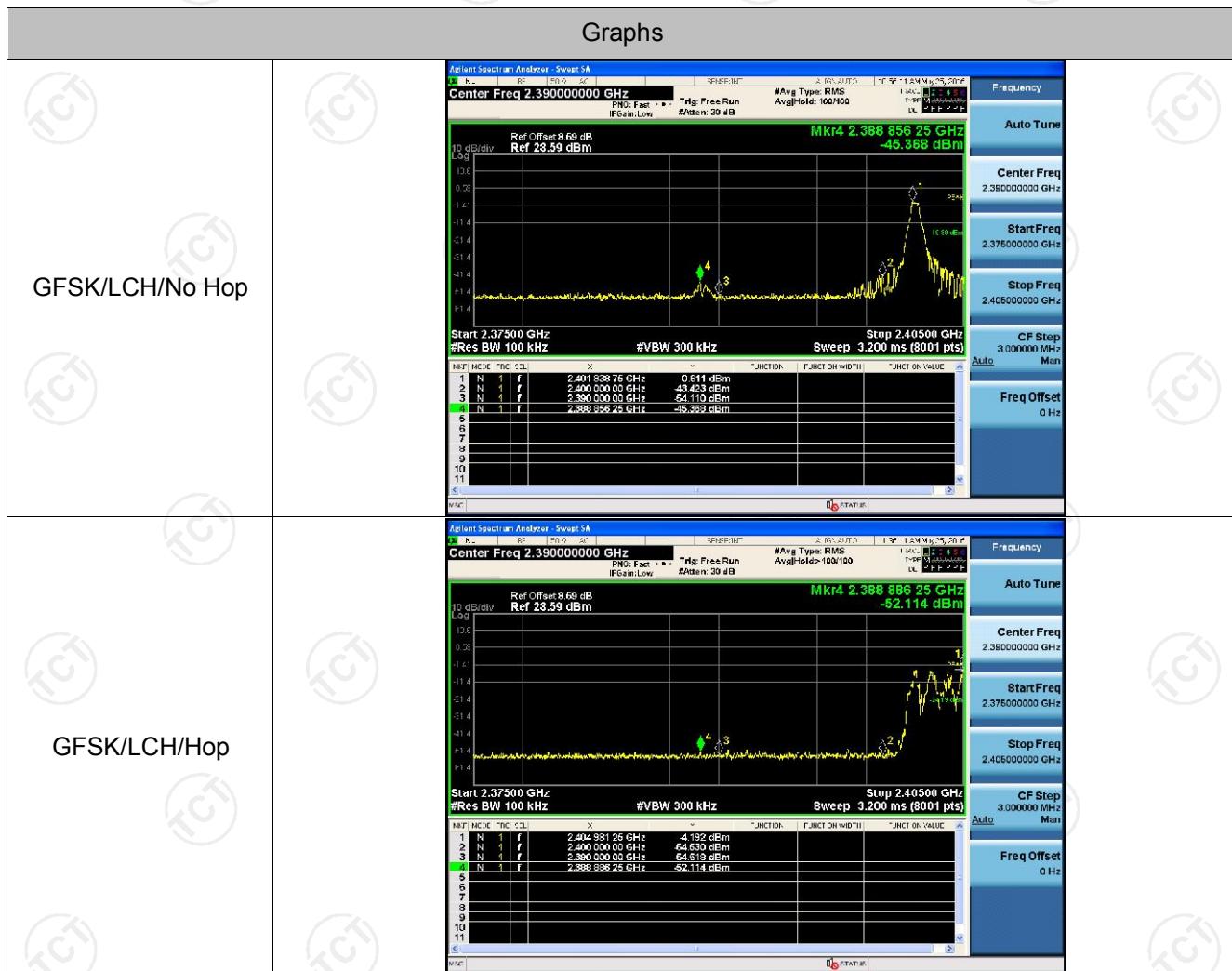


Band-edge for RF Conducted Emissions

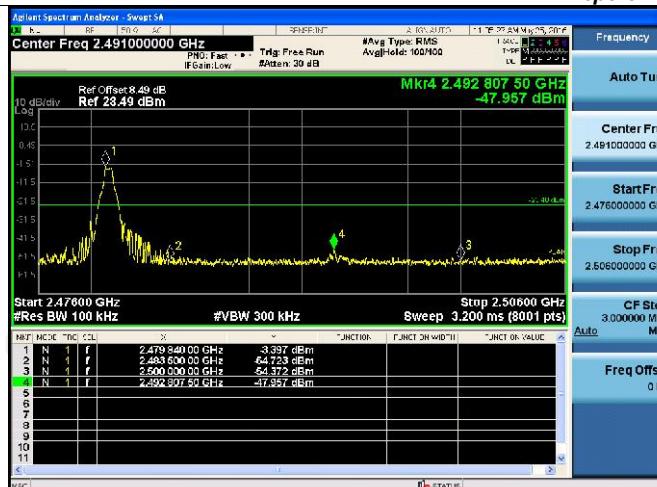
Result Table

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	0.611	Off	-45.368	-19.39	PASS
			-4.192	On	-52.114	-24.19	PASS
GFSK	HCH	2480	-3.397	Off	-47.957	-23.4	PASS
			-3.405	On	-50.596	-23.41	PASS
$\pi/4$ DQPSK	LCH	2402	-4.053	Off	-46.617	-24.05	PASS
			-3.822	On	-52.029	-23.82	PASS
$\pi/4$ DQPSK	HCH	2480	-3.241	Off	-45.293	-23.24	PASS
			-4.946	On	-51.415	-24.95	PASS

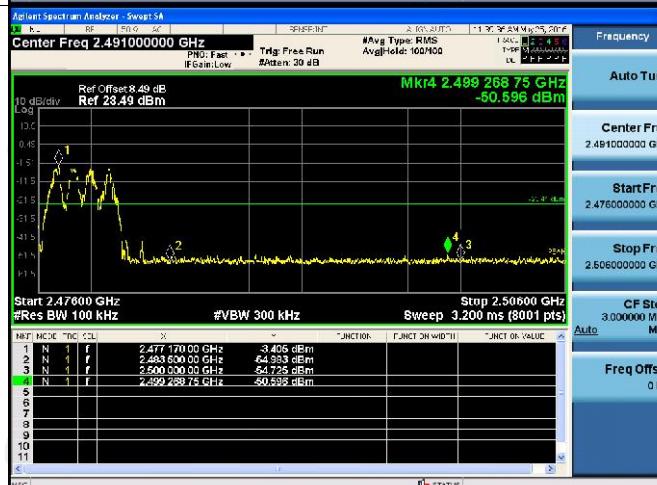
Test Graph



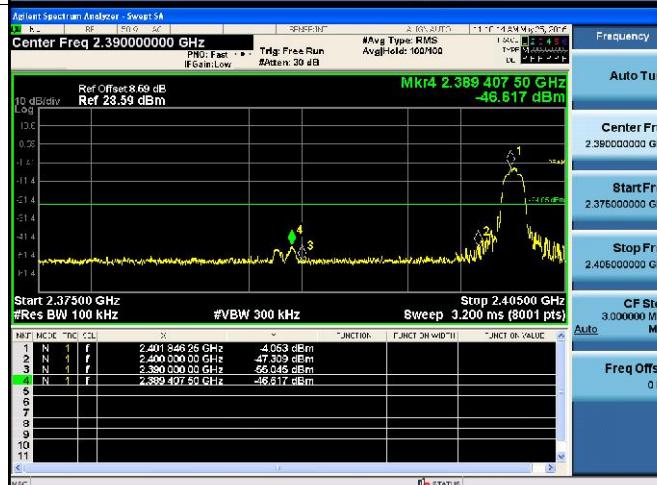
GFSK/HCH/No Hop



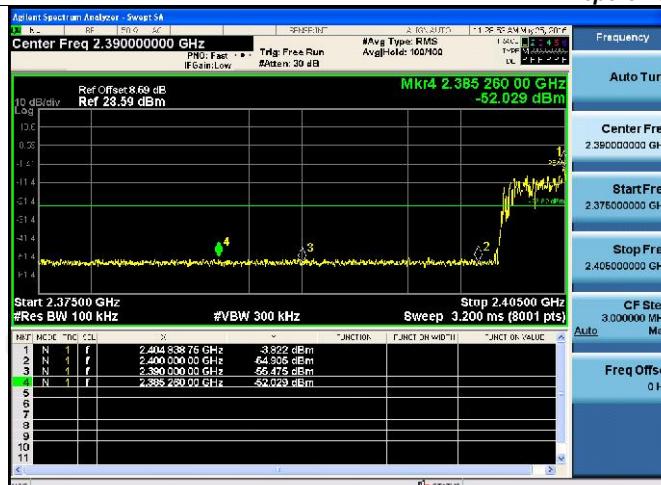
GFSK/HCH/Hop



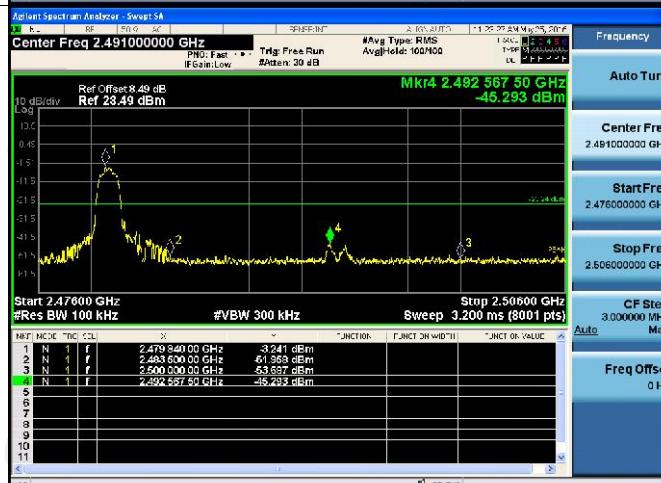
π/4DQPSK/LCH/No Hop



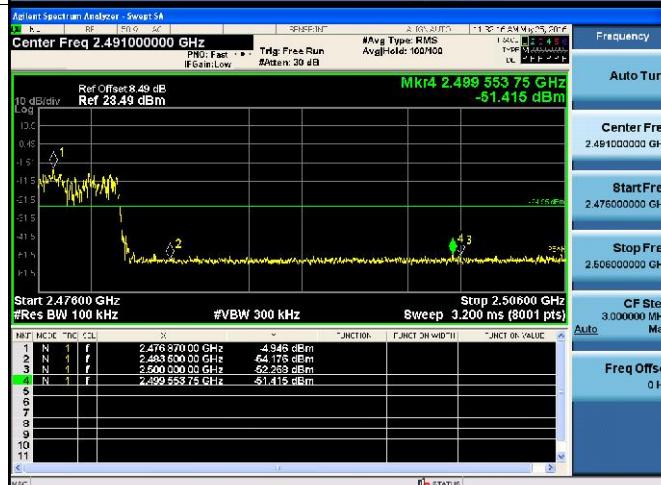
$\pi/4$ DQPSK/LCH/Hop



$\pi/4$ DQPSK/HCH/No Hop



$\pi/4$ DQPSK/HCH/Hop



RF Conducted Spurious Emissions

Result Table

Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
GFSK	LCH	0.708	<Limit	PASS
GFSK	MCH	-2.944	<Limit	PASS
GFSK	HCH	-3.329	<Limit	PASS
$\pi/4$ DQPSK	LCH	-3.615	<Limit	PASS
$\pi/4$ DQPSK	MCH	-2.97	<Limit	PASS
$\pi/4$ DQPSK	HCH	-3.212	<Limit	PASS

Test Graph

