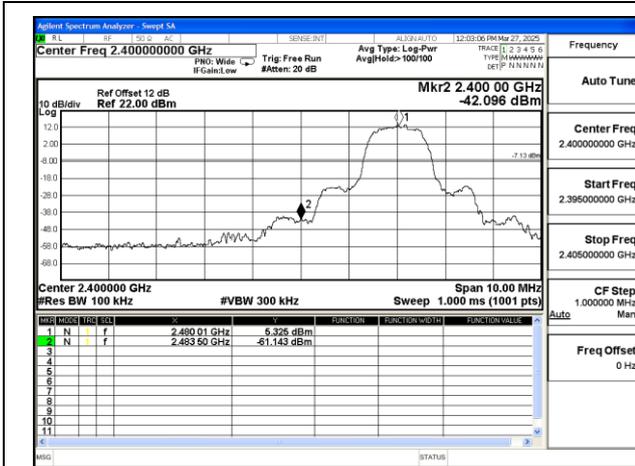




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Test Report No.: PSU-NQN2504150110RF06

Test Mode: 8DPSK



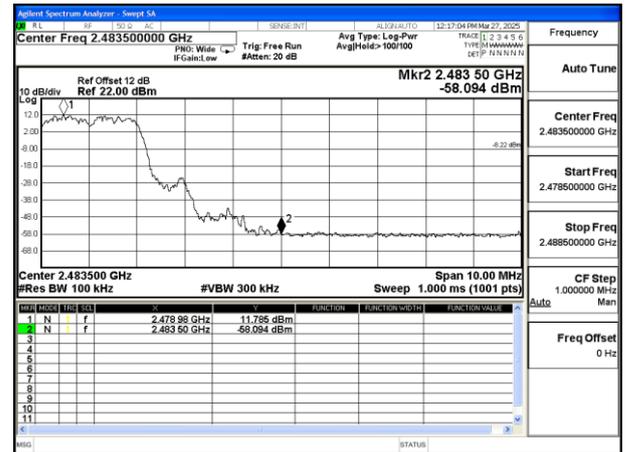
CH0(Hopping off)



CH0(Hopping on)



CH78(Hopping off)



CH78(Hopping on)



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VERITAS

Test Report No.: PSU-NQN2504150110RF06

BT ANT8

8 Duty Cycle and Antenna Gain

Test Mode	Frequency (MHz)	Plot	Duty Cycle	Correction Factor(dB)	Antenna Gain(dBi)
GFSK(DH5)	2402	Fig.1	77.70%	1.10	0.40

Note: Correction Factor= $10 \cdot \log(1/\text{Duty Cycle})$

Test Mode	Frequency (MHz)	Plot	Duty Cycle	Correction Factor(dB)	Antenna Gain(dBi)
$\pi/4$ DQPSK(2D H5)	2402	Fig.2	77.80%	1.09	0.40

Note: Correction Factor= $10 \cdot \log(1/\text{Duty Cycle})$

Test Mode	Frequency (MHz)	Plot	Duty Cycle	Correction Factor(dB)	Antenna Gain(dBi)
8DPSK(3DH5)	2402	Fig.3	77.80%	1.09	0.40

Note: Correction Factor= $10 \cdot \log(1/\text{Duty Cycle})$



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Test Report No.: PSU-NQN2504150110RF06

Test Mode: GFSK(DH5)

Test Mode: $\pi/4$ DQPSK(2DH5)

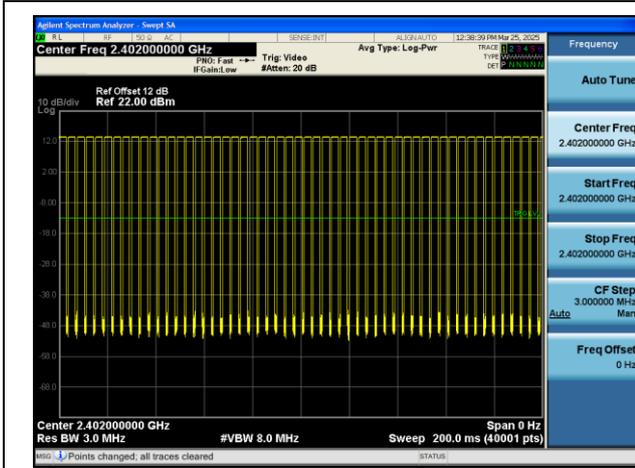


Fig.1

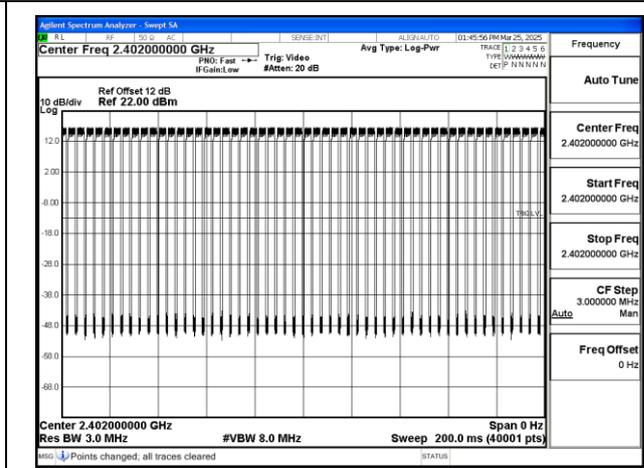


Fig.2

Test Mode: 8DPSK(3DH5)

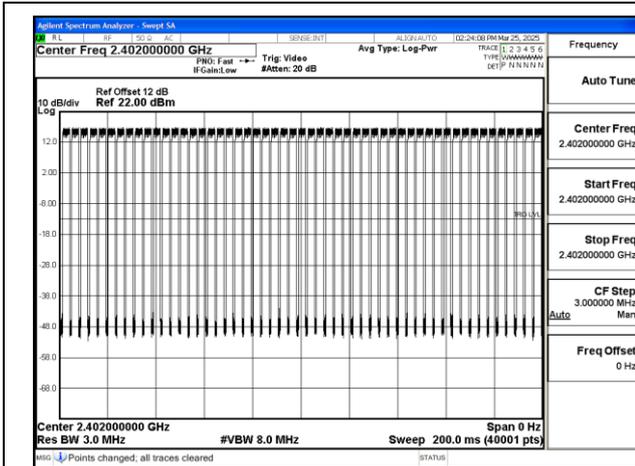


Fig.3



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Test Report No.: PSU-NQN2504150110RF06

9 EIRP

Conducted Power

Modulation type	Conducted Peak Power(dBm)		
	2402MHz	2441MHz	2480MHz
GFSK(DH5)	12.42	12.45	12.65
π/4DQPSK(2DH5)	16.46	15.35	15.55
8DPSK(3DH5)	16.49	16.04	16.20

Modulation type	Conducted Average Power(dBm)		
	2402MHz	2441MHz	2480MHz
GFSK(DH5)	12.95	13.14	12.45
π/4DQPSK(2DH5)	12.77	12.98	12.16
8DPSK(3DH5)	12.77	13.05	12.25

EIRP

Modulation type	Peak EIRP (dBm)		
	2402MHz	2441MHz	2480MHz
GFSK(DH5)	12.82	12.85	13.05
π/4DQPSK(2DH5)	16.86	15.75	15.95
8DPSK(3DH5)	16.89	16.44	16.60

Modulation type	Average EIRP (dBm)		
	2402MHz	2441MHz	2480MHz
GFSK(DH5)	13.35	13.54	12.85
π/4DQPSK(2DH5)	13.17	13.38	12.56
8DPSK(3DH5)	13.17	13.45	12.65

EIRP (dBm)=Conducted Power(dBm)+Antenna Gain(dBi)



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Test Report No.: PSU-NQN2504150110RF06

10 Occupied Bandwidth

20dB Bandwidth

Test Mode	Carrier frequency (MHz)	20dB Bandwidth(KHz)
GFSK(DH5)	2402	929.0
GFSK(DH5)	2441	928.6
GFSK(DH5)	2480	928.3

Test Mode	Carrier frequency (MHz)	20dB Bandwidth(KHz)
$\pi/4$ DQPSK(2DH5)	2402	1344.6
$\pi/4$ DQPSK(2DH5)	2441	1335.5
$\pi/4$ DQPSK(2DH5)	2480	1342.2

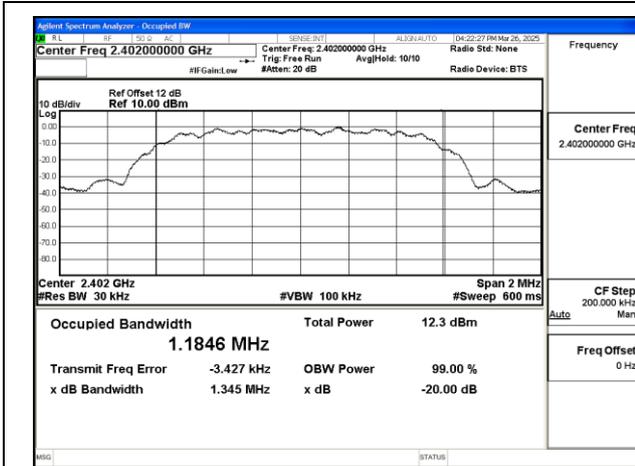
Test Mode	Carrier frequency (MHz)	20dB Bandwidth(KHz)
8DPSK(3DH5)	2402	1343.5
8DPSK(3DH5)	2441	1340.2
8DPSK(3DH5)	2480	1344.7



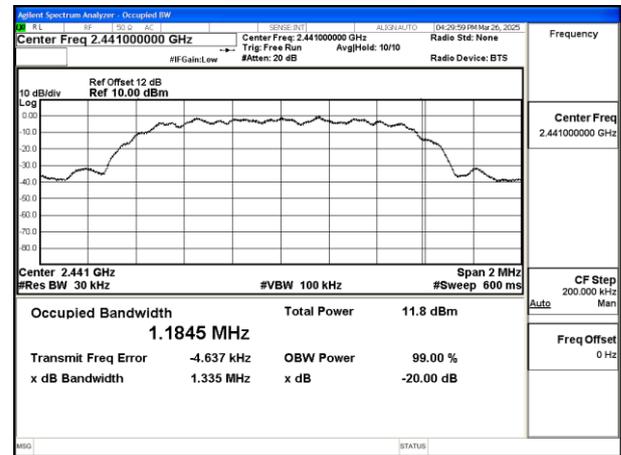
BUREAU VERITAS

Test Report No.: PSU-NQN2504150110RF06

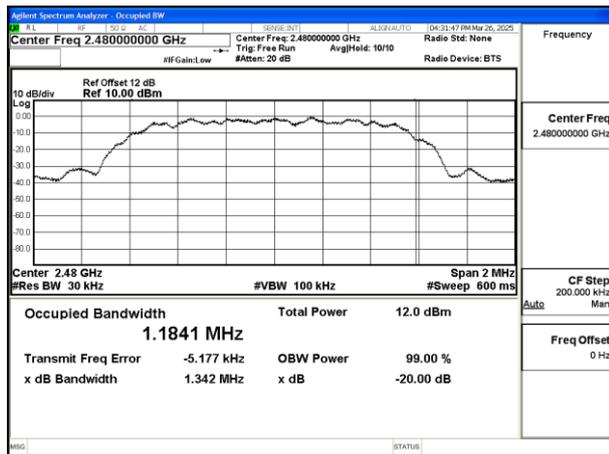
Test Mode: $\pi/4$ DQPSK(2DH5)



Test Mode: $\pi/4$ DQPSK(2DH5) 2402MHz



Test Mode: $\pi/4$ DQPSK(2DH5) 2441MHz



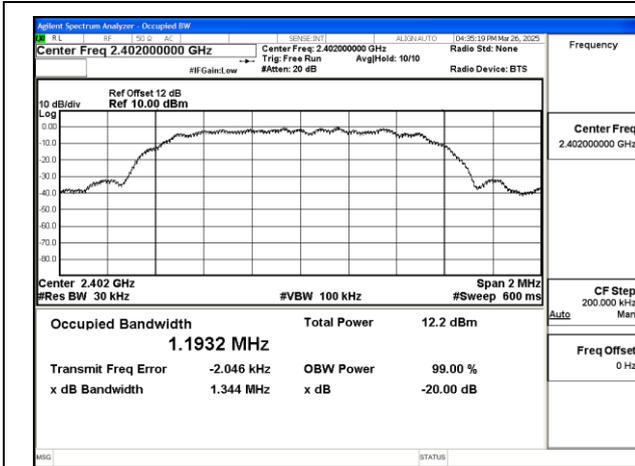
Test Mode: $\pi/4$ DQPSK(2DH5) 2480MHz



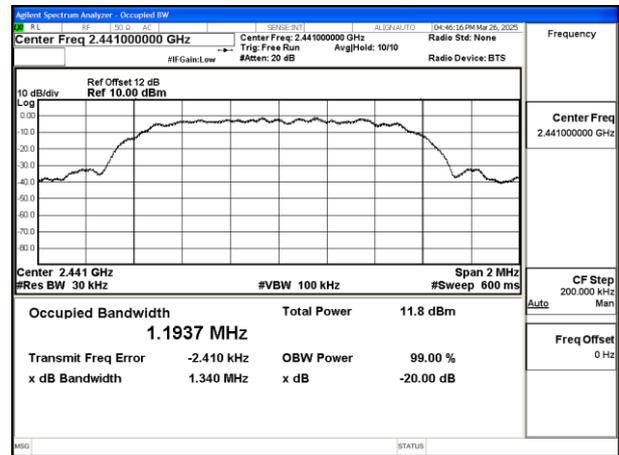
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Test Report No.: PSU-NQN2504150110RF06

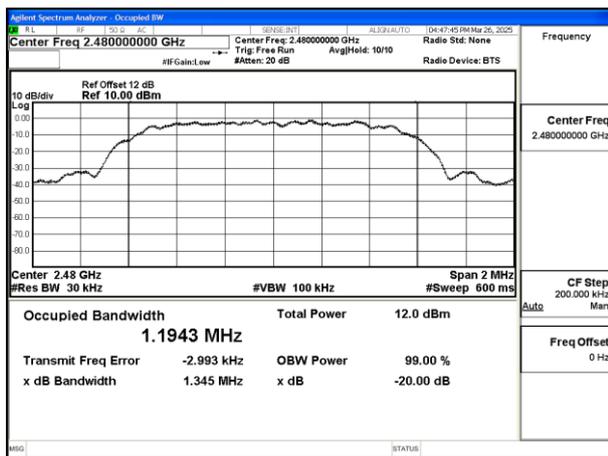
Test Mode: 8DPSK(3DH5)



Test Mode:8DPSK(3DH5) 2402MHz



Test Mode:8DPSK(3DH5) 2441MHz



Test Mode:8DPSK(3DH5) 2480MHz



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Test Report No.: PSU-NQN2504150110RF06

99% Bandwidth

Test Mode	Carrier frequency (MHz)	99% Bandwidth(kHz)
GFSK(DH5)	2402	860.0
GFSK(DH5)	2441	860.2
GFSK(DH5)	2480	860.8

Test Mode	Carrier frequency (MHz)	99% Bandwidth(kHz)
$\pi/4$ DQPSK(2DH5)	2402	1185.3
$\pi/4$ DQPSK(2DH5)	2441	1183.5
$\pi/4$ DQPSK(2DH5)	2480	1184.2

Test Mode	Carrier frequency (MHz)	99% Bandwidth(kHz)
8DPSK(3DH5)	2402	1193.8
8DPSK(3DH5)	2441	1193.9
8DPSK(3DH5)	2480	1194.6



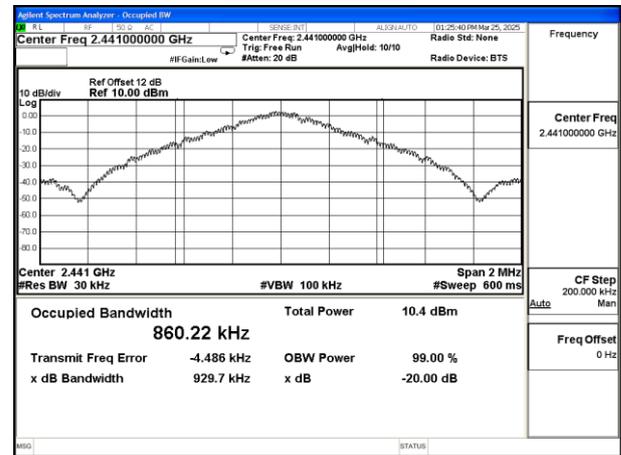
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Test Report No.: PSU-NQN2504150110RF06

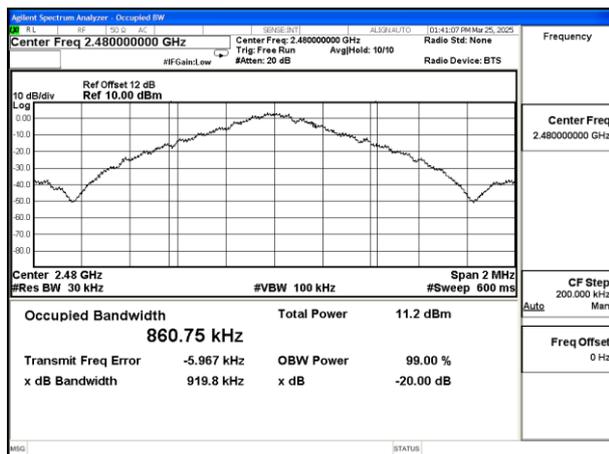
Test Mode: GFSK(DH5)



Test Mode:GFSK(DH5) 2402MHz



Test Mode:GFSK(DH5) 2441MHz



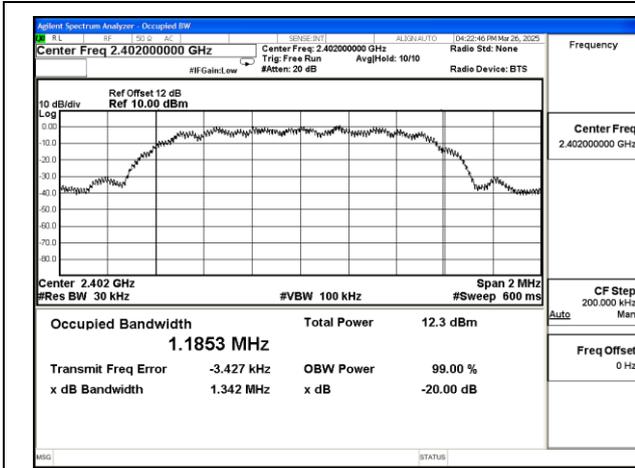
Test Mode:GFSK(DH5) 2480MHz



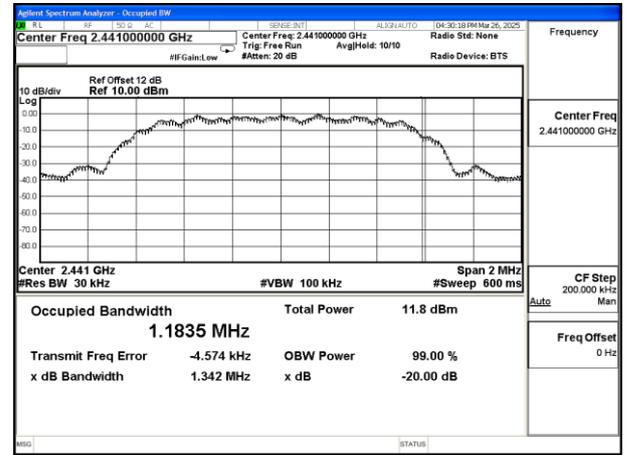
BUREAU VERITAS

Test Report No.: PSU-NQN2504150110RF06

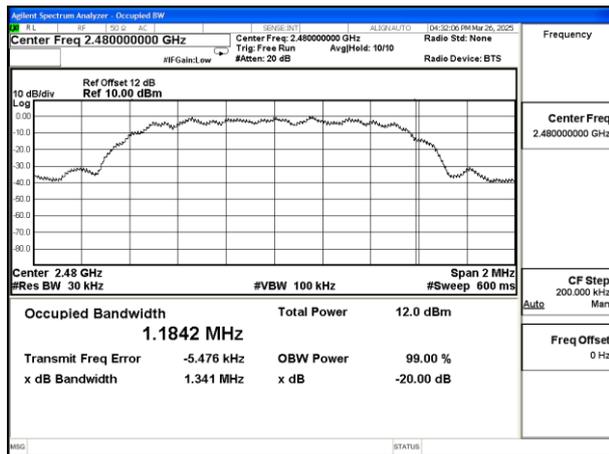
Test Mode: $\pi/4$ DQPSK(2DH5)



Test Mode: $\pi/4$ DQPSK(2DH5) 2402MHz



Test Mode: $\pi/4$ DQPSK(2DH5) 2441MHz



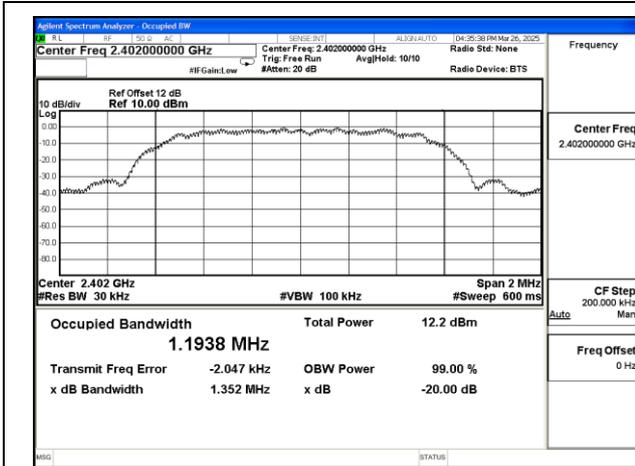
Test Mode: $\pi/4$ DQPSK(2DH5) 2480MHz



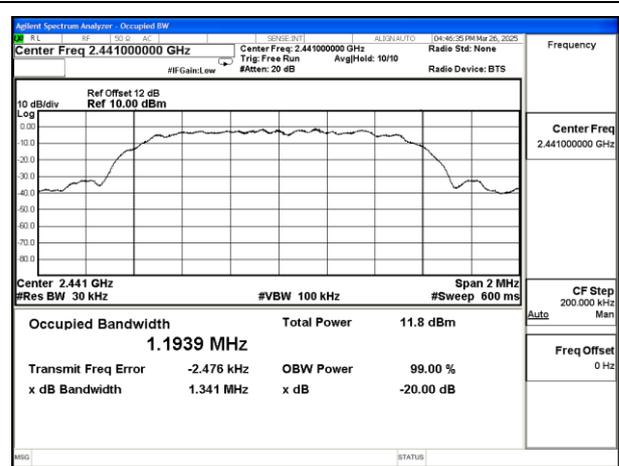
BUREAU VERITAS

Test Report No.: PSU-NQN2504150110RF06

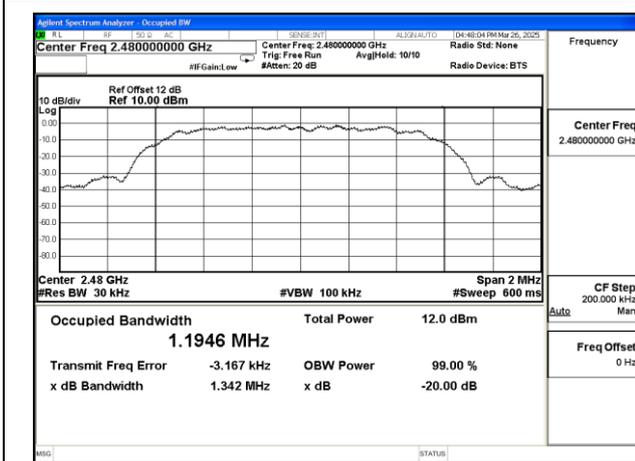
Test Mode: 8DPSK(3DH5)



Test Mode:8DPSK(3DH5) 2402MHz



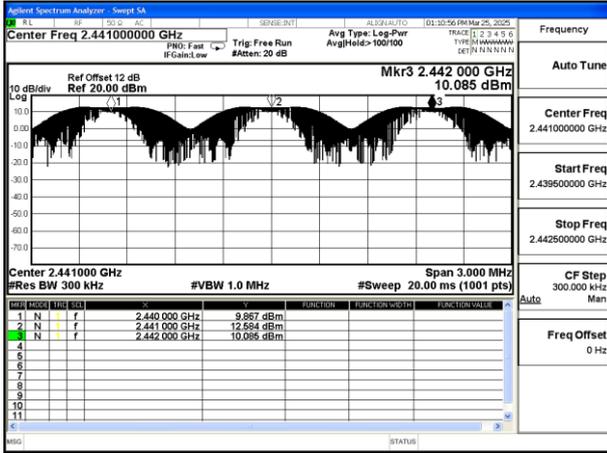
Test Mode:8DPSK(3DH5) 2441MHz



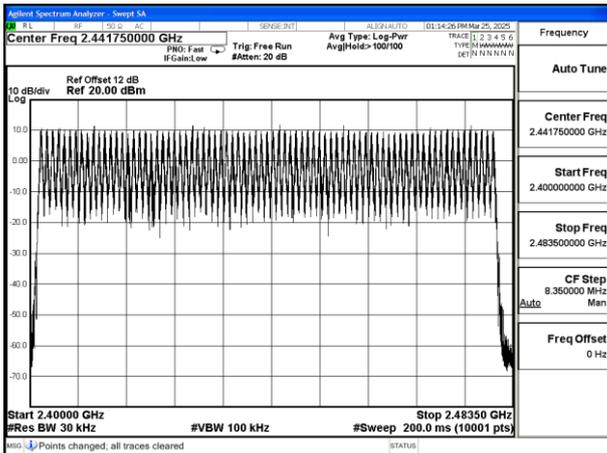
Test Mode:8DPSK(3DH5) 2480MHz

11 Hopping Frequency Separation

Channel separation

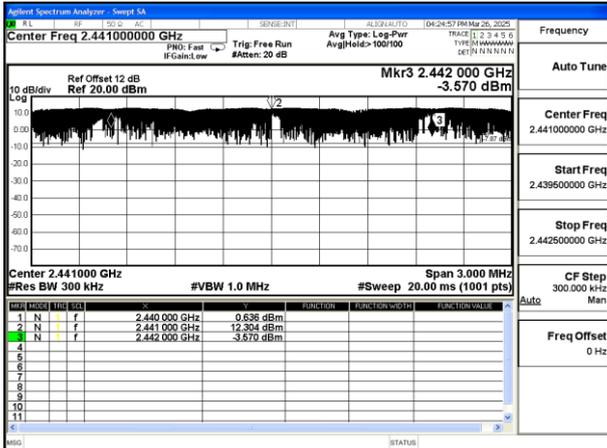
Test Mode	Op-mode	Channel separation (MHz)
GFSK(DH5)	Hopping mode	1
		

Number of Hopping Frequencies

Test Mode	Op-mode	Result
GFSK(DH5)	Hopping mode	79
		

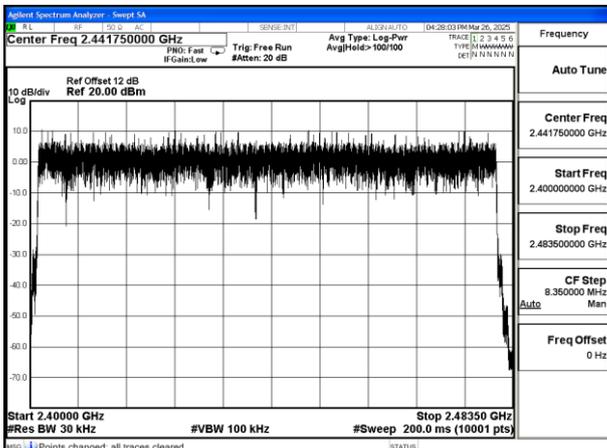
Channel separation

Test Mode	Op-mode	Channel separation (MHz)
$\pi/4$ DQPSK(2DH5)	Hopping mode	1



Number of Hopping Frequencies

Test Mode	Op-mode	Result
$\pi/4$ DQPSK(2DH5)	Hopping mode	79





Test Report No.: PSU-NQN2504150110RF06

Channel separation

Test Mode	Op-mode	Channel separation (MHz)
8DPSK(3DH5)	Hopping mode	1

Number of Hopping Frequencies

Test Mode	Op-mode	Result
8DPSK(3DH5)	Hopping mode	79



12 Dwell Time

Test Mode	Packet type	Time slot length(μS)	Dwell time	Dwell time(ms)
GFSK(DH1)	DH1	381	Time slot length *31.6*16000/2/79	121.9
GFSK(DH3)	DH3	1620	Time slot length *31.6*16000/4/79	259.2
GFSK(DH5)	DH5	2870	Time slot length *31.6*16000/6/79	306.1

Test Mode	Packet type	Time slot length(μS)	Dwell time	Dwell time(ms)
π/4DQPSK(2DH1)	2DH1	387	Time slot length *31.6*16000/2/79	123.8
π/4DQPSK(2DH3)	2DH3	1620	Time slot length *31.6*16000/4/79	259.2
π/4DQPSK(2DH5)	2DH5	2860	Time slot length *31.6*16000/6/79	305.1

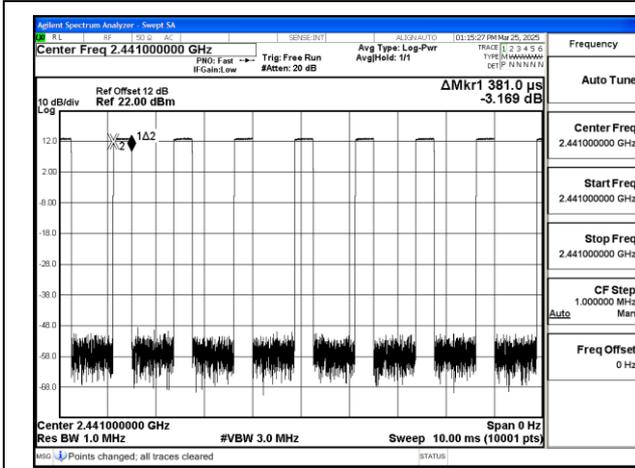
Test Mode	Packet type	Time slot length(μS)	Dwell time	Dwell time(ms)
8DPSK(3DH1)	3DH1	370	Time slot length *31.6*16000/2/79	118.4
8DPSK(3DH3)	3DH3	1620	Time slot length *31.6*16000/4/79	259.2
8DPSK(3DH5)	3DH5	2870	Time slot length *31.6*16000/6/79	306.1



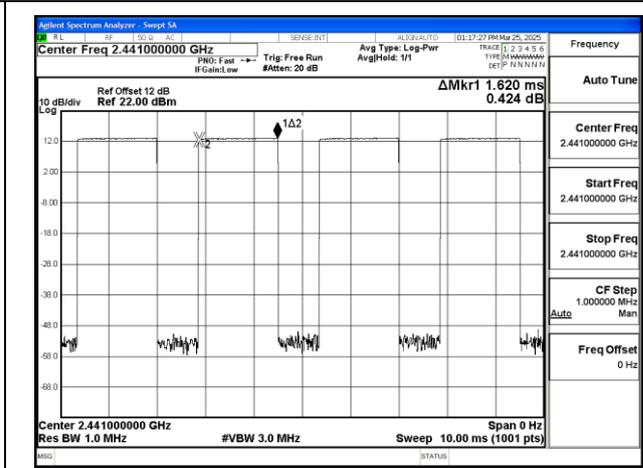
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Test Report No.: PSU-NQN2504150110RF06

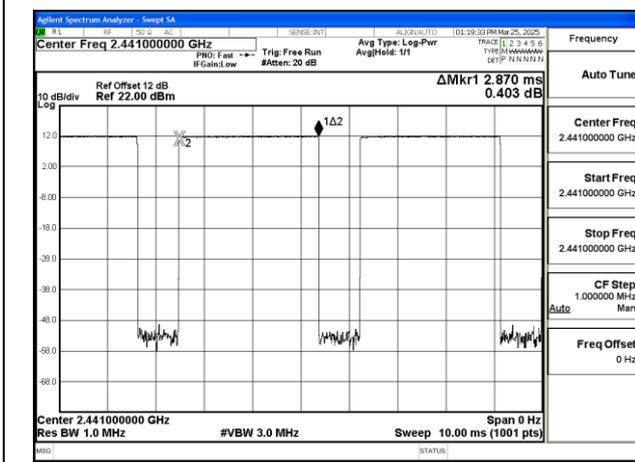
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Test Mode:GFSK(DH1) 2441MHz



Test Mode:GFSK(DH3) 2441MHz



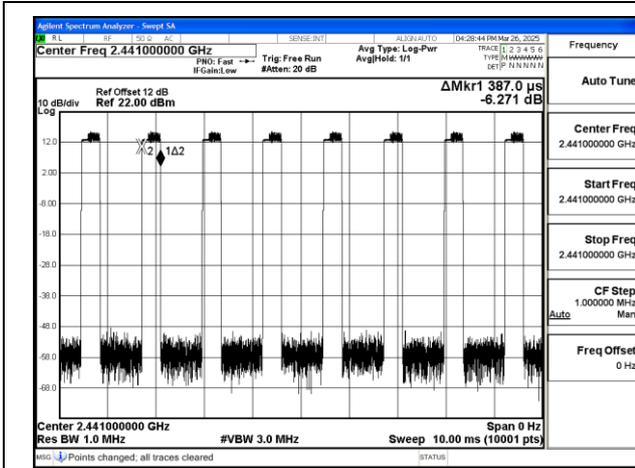
Test Mode:GFSK(DH5) 2441MHz



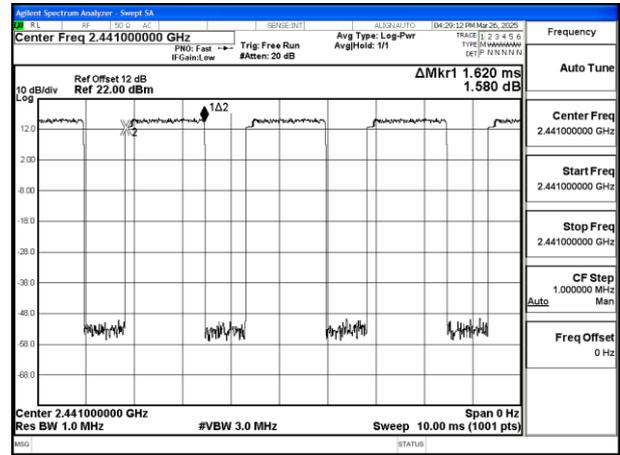
BUREAU VERITAS

Test Report No.: PSU-NQN2504150110RF06

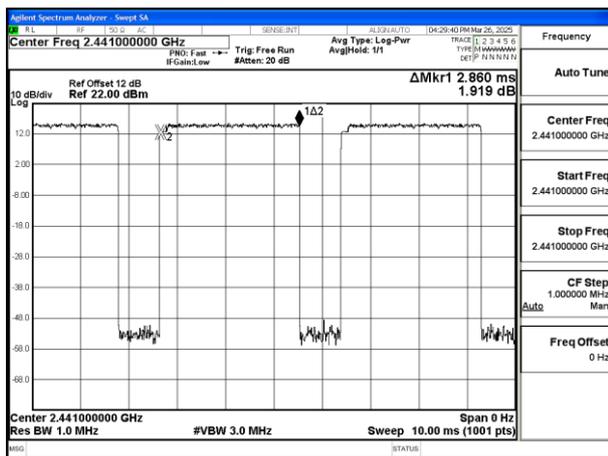
Test Mode: $\pi/4$ DQPSK(2DH5)



Test Mode: $\pi/4$ DQPSK(2DH1) 2441MHz



Test Mode: $\pi/4$ DQPSK(2DH3) 2441MHz



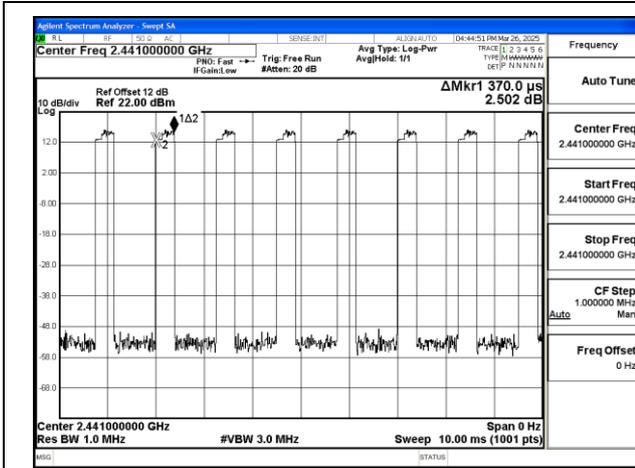
Test Mode: $\pi/4$ DQPSK(2DH5) 2441MHz



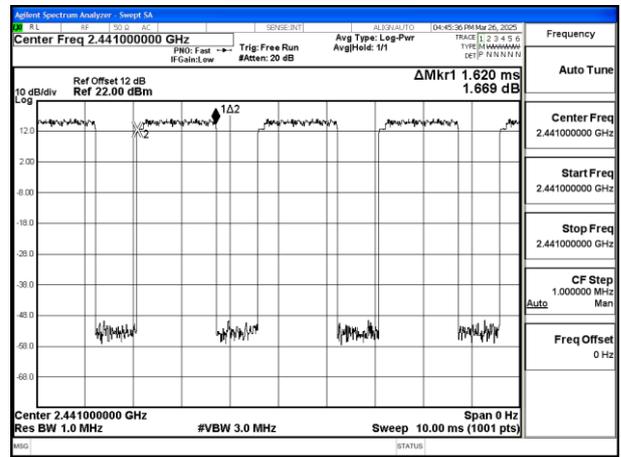
BUREAU VERITAS

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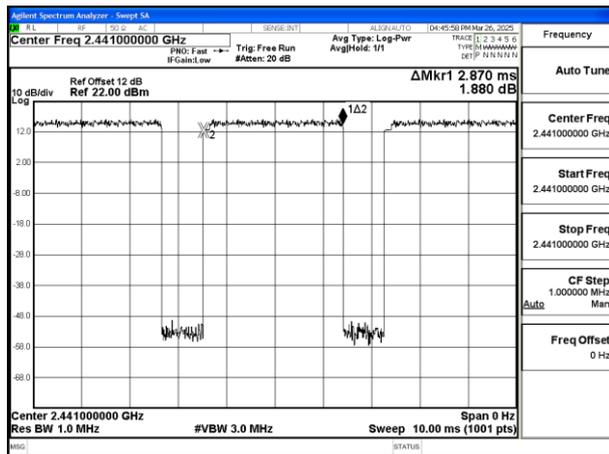
Test Mode: 8DPSK(3DH5)



Test Mode:8DPSK(3DH1) 2441MHz



Test Mode:8DPSK(3DH3) 2441MHz



Test Mode:8DPSK(3DH5) 2441MHz

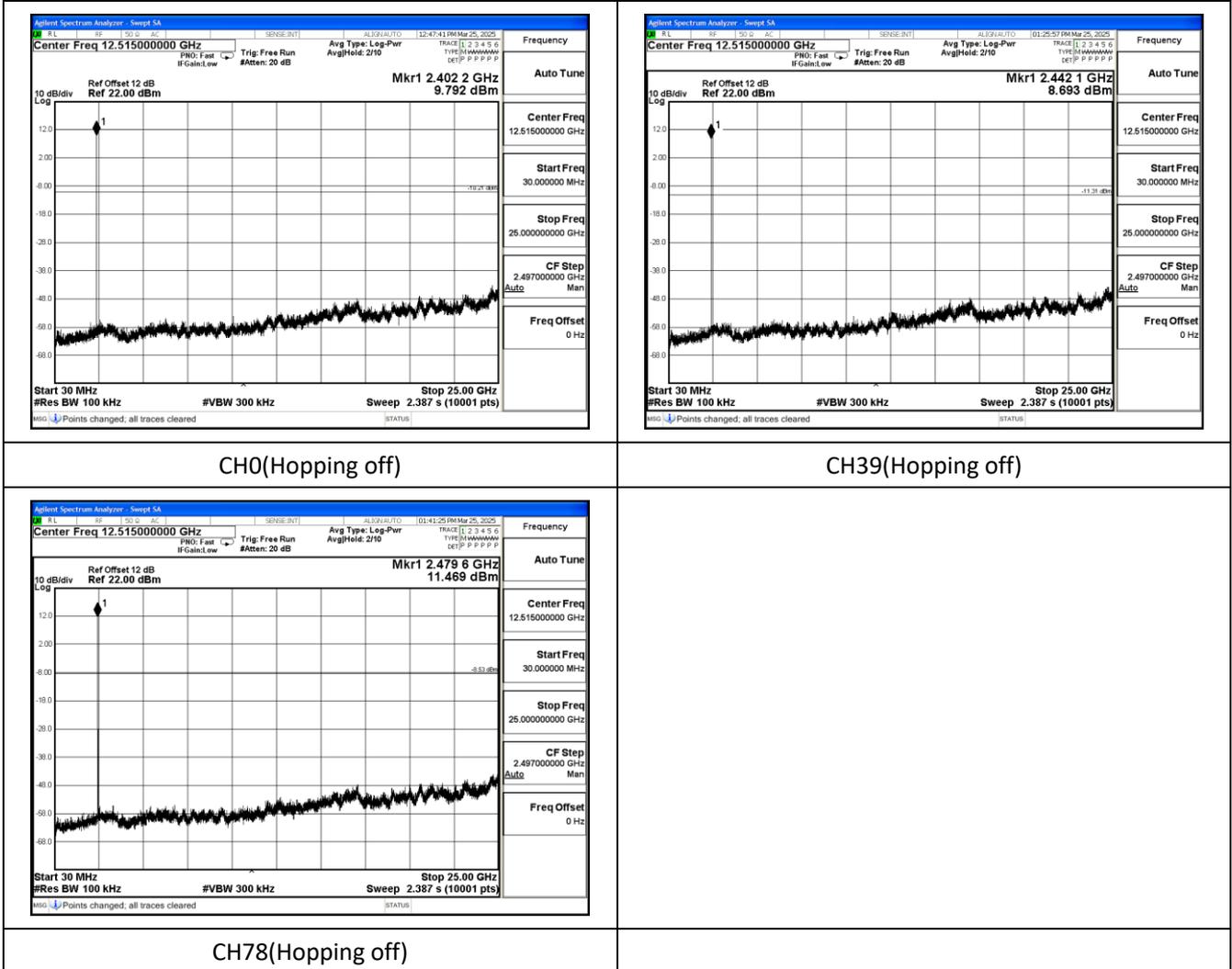


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Test Report No.: PSU-NQN2504150110RF06

13 Conducted Out of band emission measurement

Test Mode: GFSK

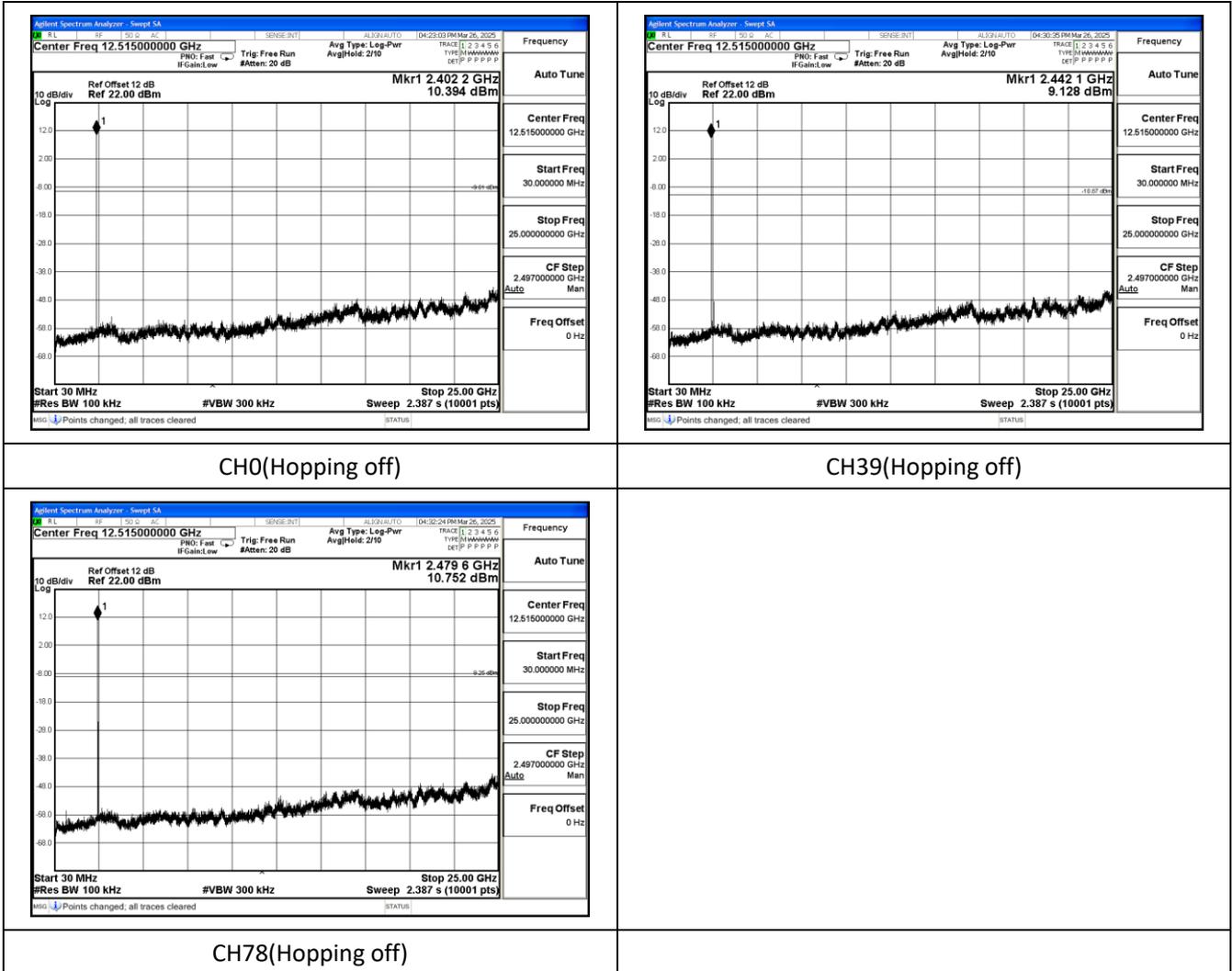




BUREAU VERITAS

Test Report No.: PSU-NQN2504150110RF06

Test Mode: π /4DQPSK

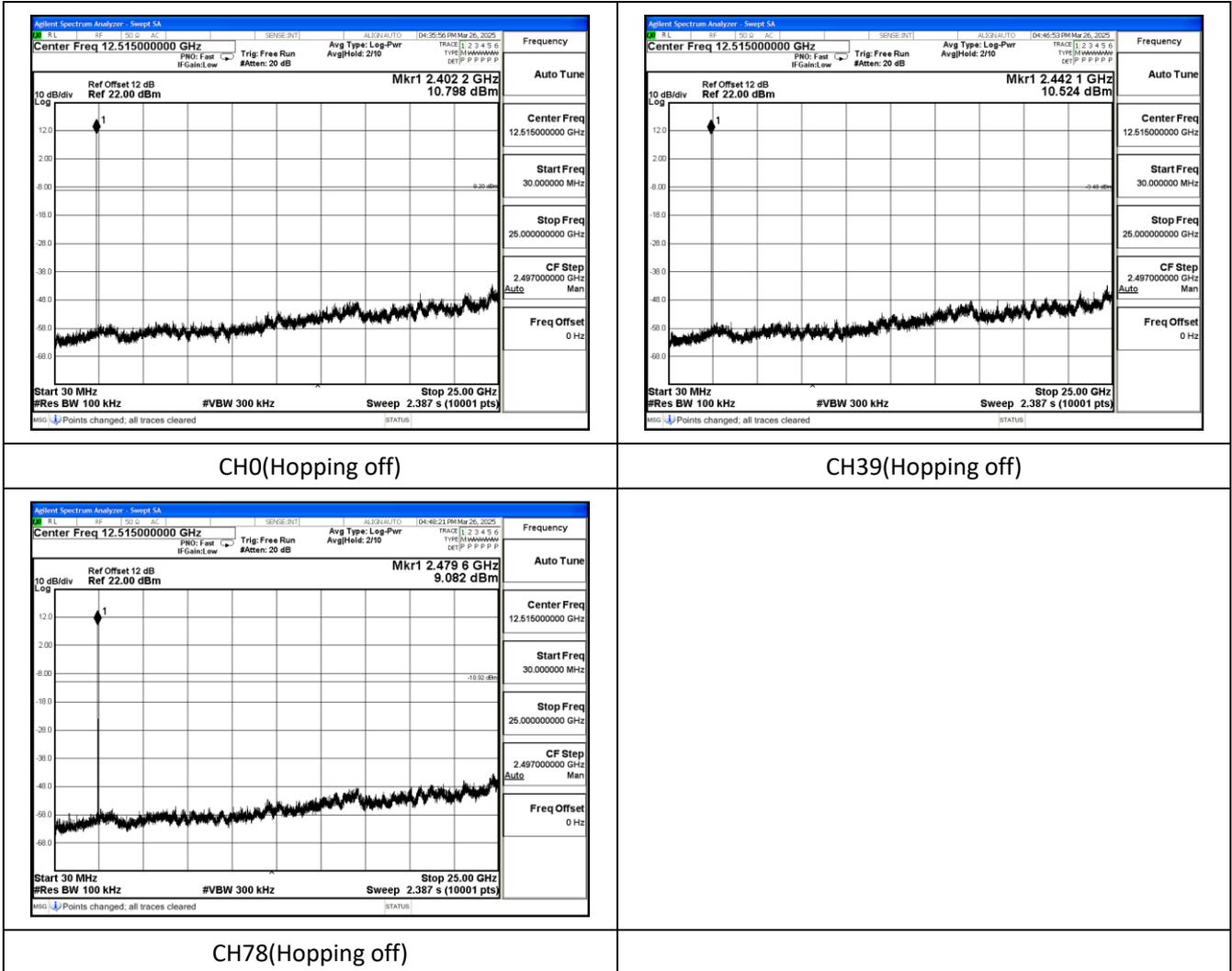




BUREAU VERITAS

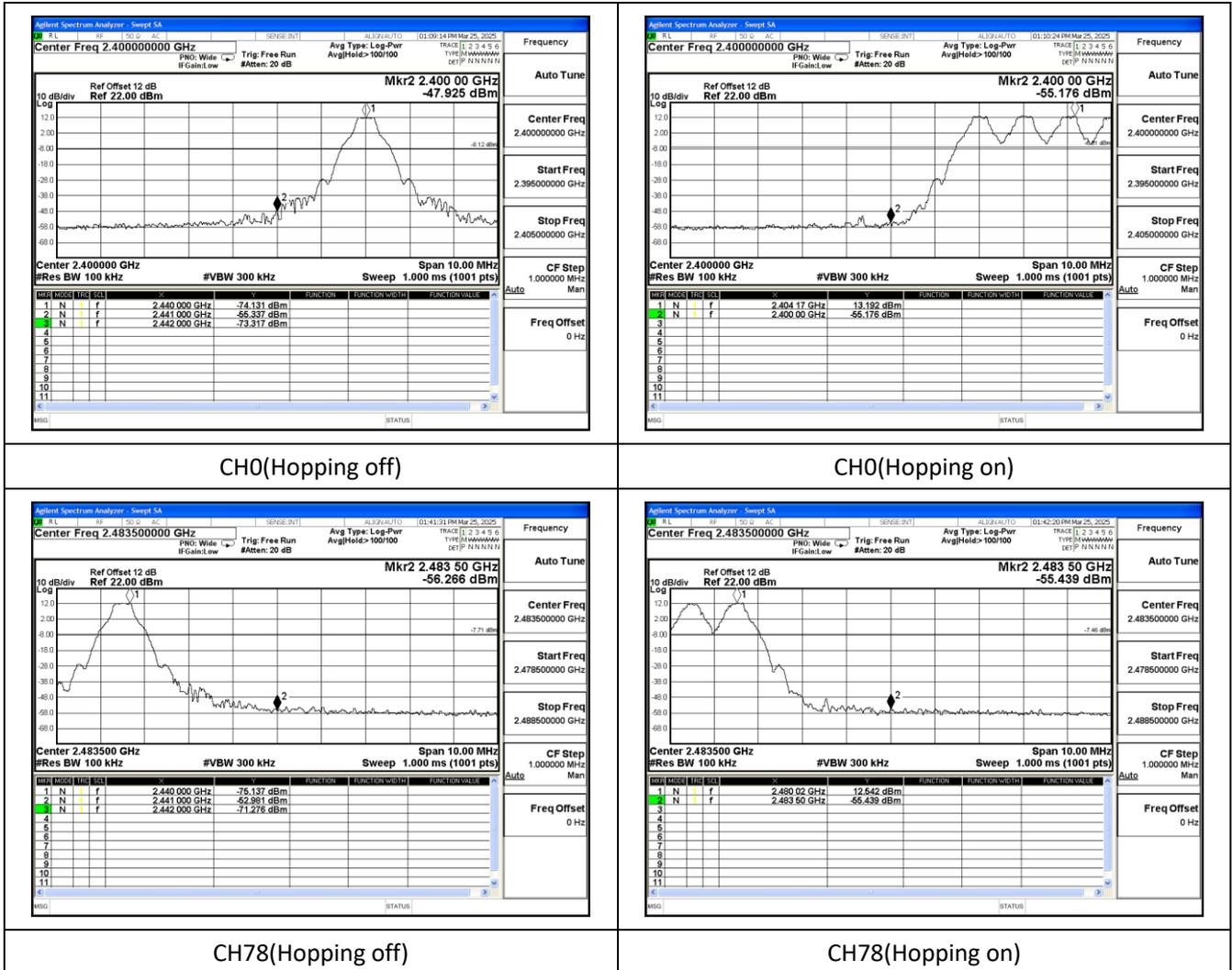
Test Report No.: PSU-NQN2504150110RF06

Test Mode: 8DPSK



14 Band Edge measurement

Test Mode: GFSK

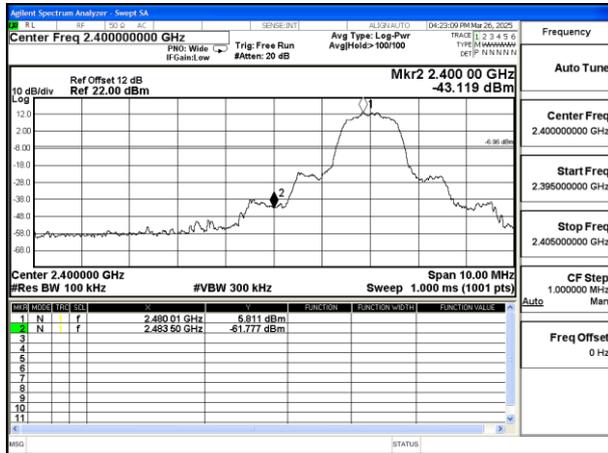




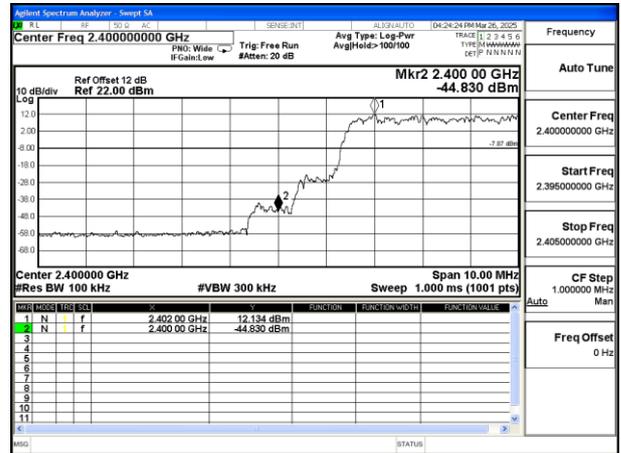
BUREAU
VERITAS

Test Report No.: PSU-NQN2504150110RF06

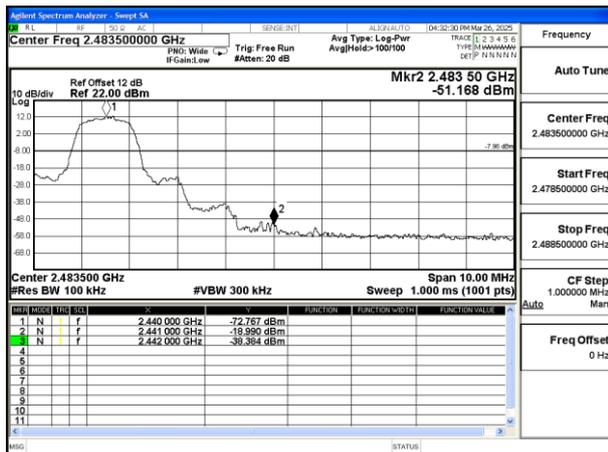
Test Mode: $\pi/4$ DQPSK



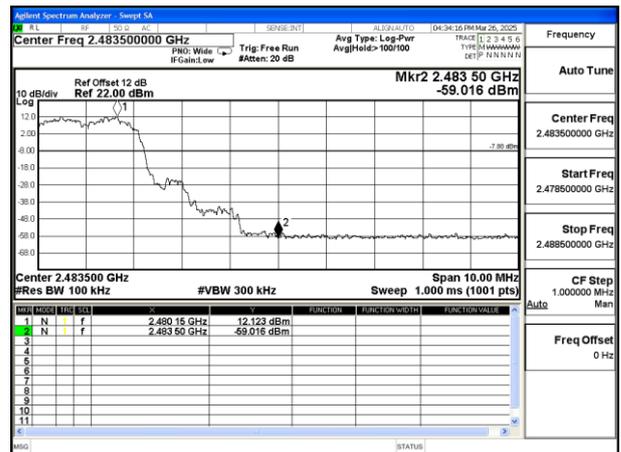
CH0(Hopping off)



CH0(Hopping on)



CH78(Hopping off)



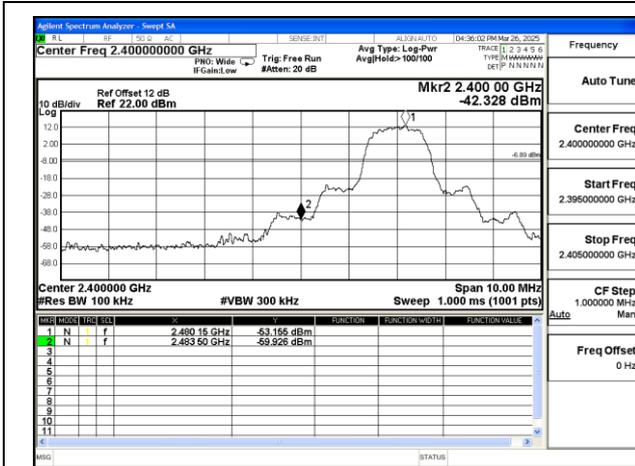
CH78(Hopping on)



BUREAU VERITAS

Test Report No.: PSU-NQN2504150110RF06

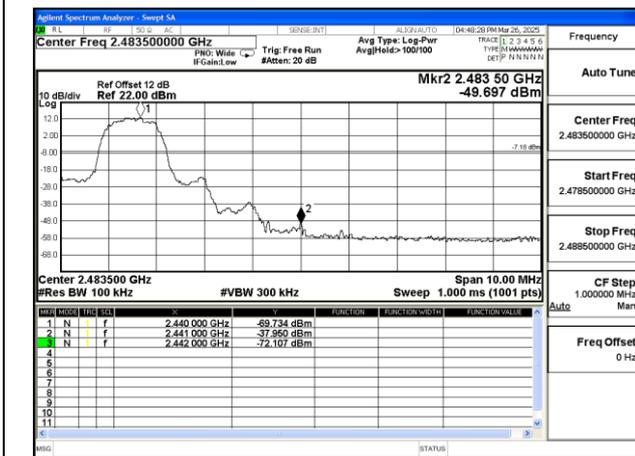
Test Mode: 8DPSK



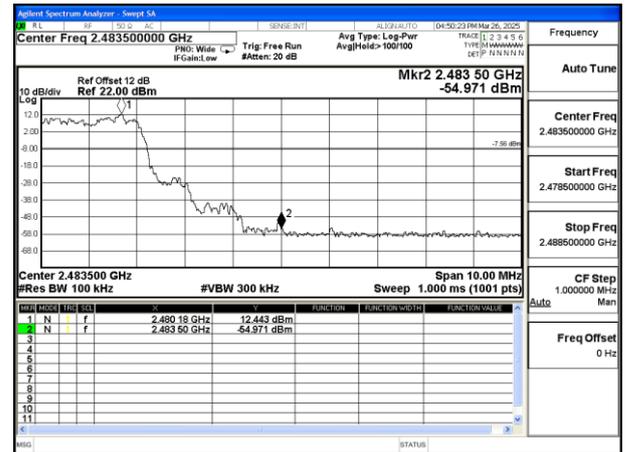
CH0(Hopping off)



CH0(Hopping on)



CH78(Hopping off)



CH78(Hopping on)

---END---