

Appendix A

RF Test Data for BT V4.0(BDR/EDR) (Conducted Measurement)

Product Name: TABLET PC

Trade Mark: FUSION5

Test Model: T099

Environmental Conditions

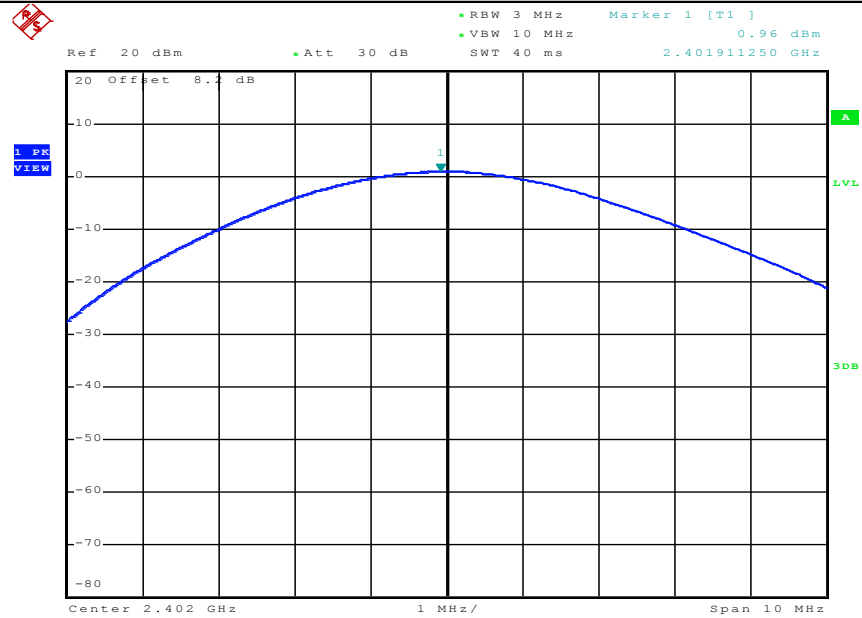
Temperature:	23.2°C
Relative Humidity:	53.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Wang.Chuang
Supervised by:	TOM.LIU

A.1 Maximum Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	0.960	30	PASS
	MCH	-0.110	30	PASS
	HCH	0.070	30	PASS
$\pi/4$ DQPSK	LCH	0.220	21	PASS
	MCH	0.130	21	PASS
	HCH	-0.270	21	PASS
8DPSK	LCH	-0.230	21	PASS
	MCH	-0.330	21	PASS
	HCH	-0.330	21	PASS

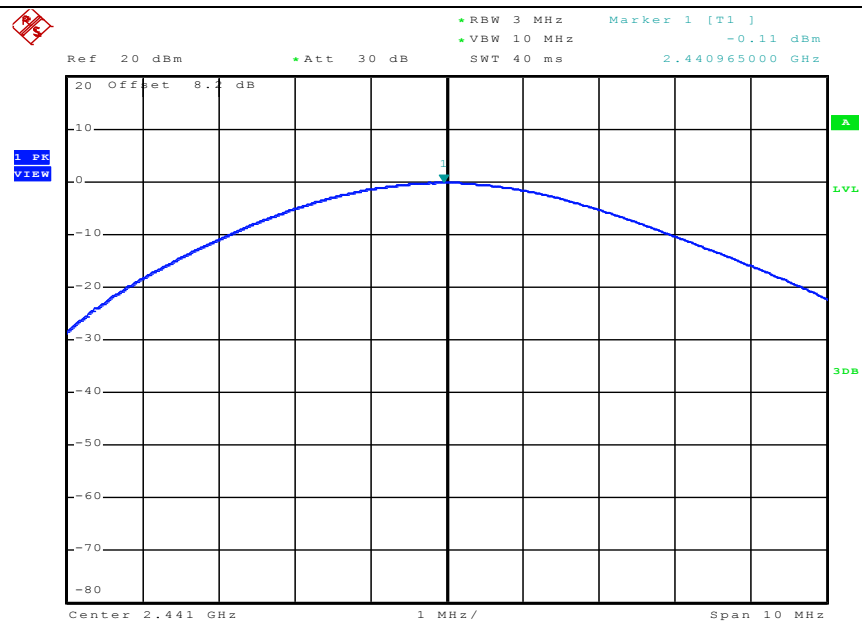
Test Graphs

GFSK/LCH



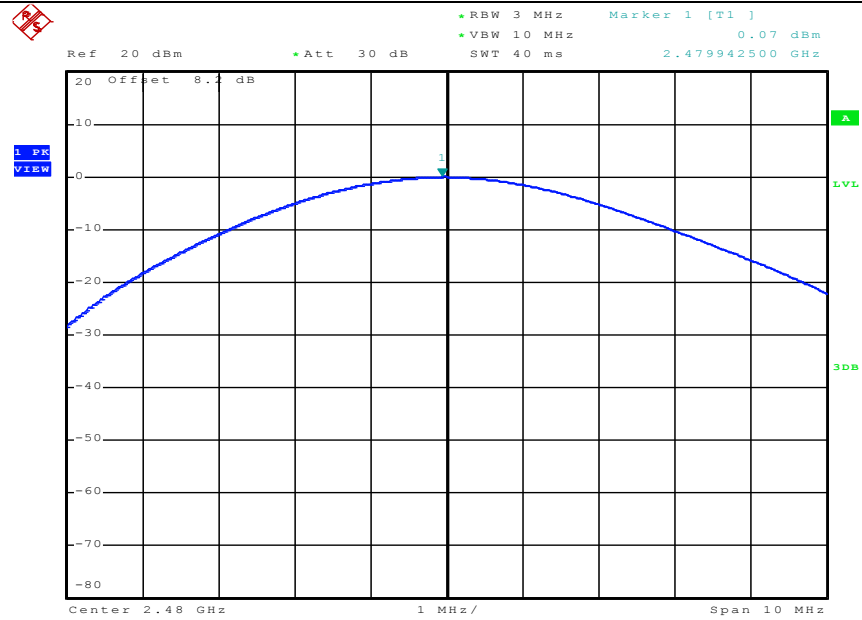
Date: 25.SEP.2019 13:53:36

GFSK/MCH



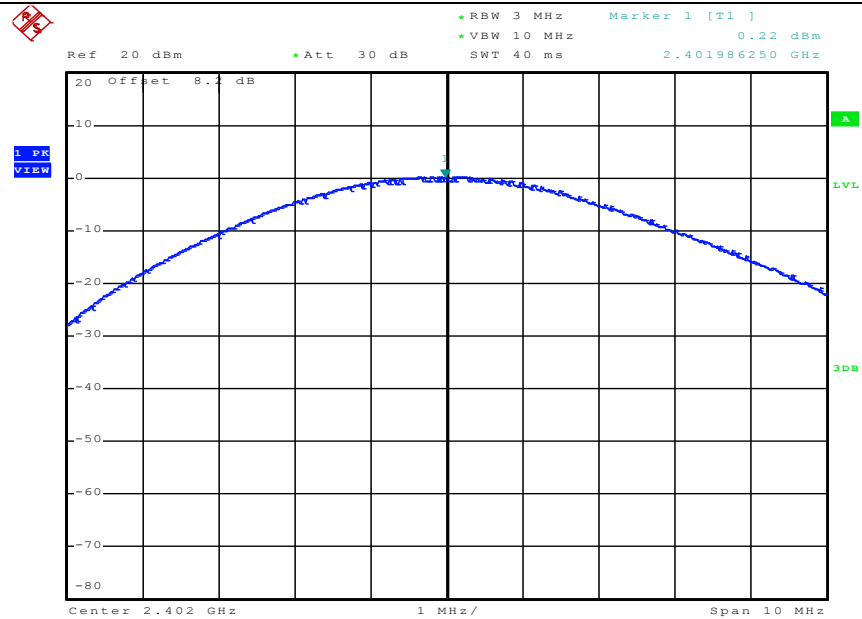
Date: 25.SEP.2019 13:56:06

GFSK/HCH



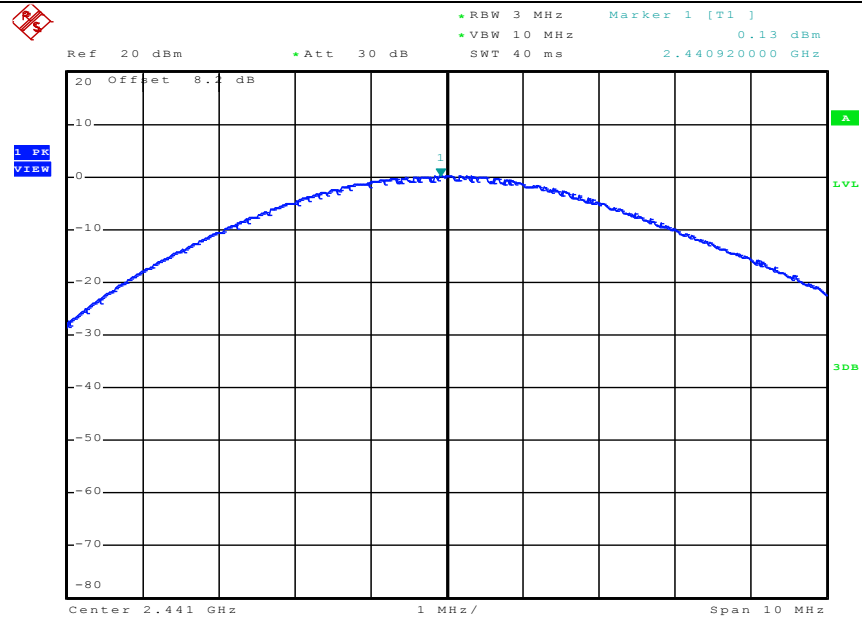
Date: 25.SEP.2019 13:57:45

$\pi/4$ DQPSK/LCH



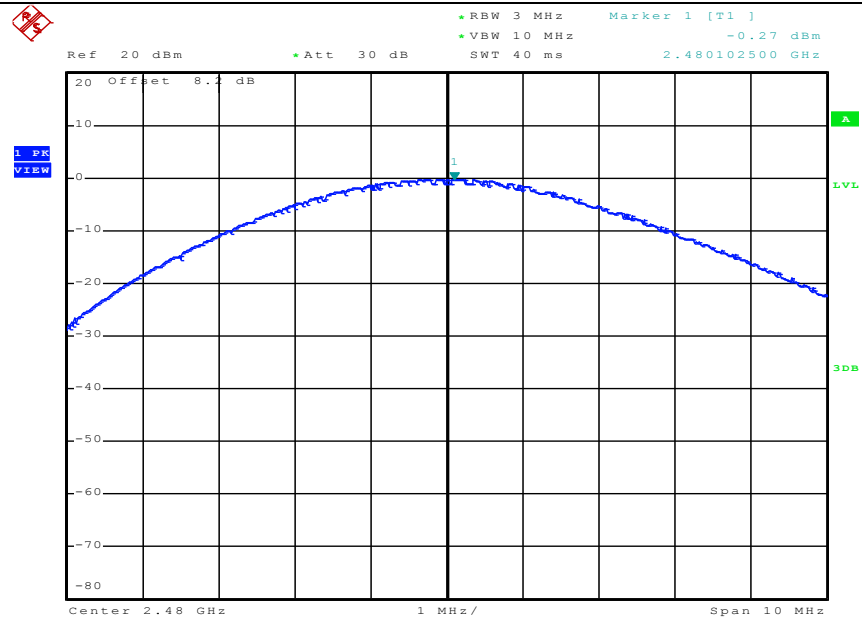
Date: 25.SEP.2019 14:00:20

$\pi/4$ DQPSK/MCH



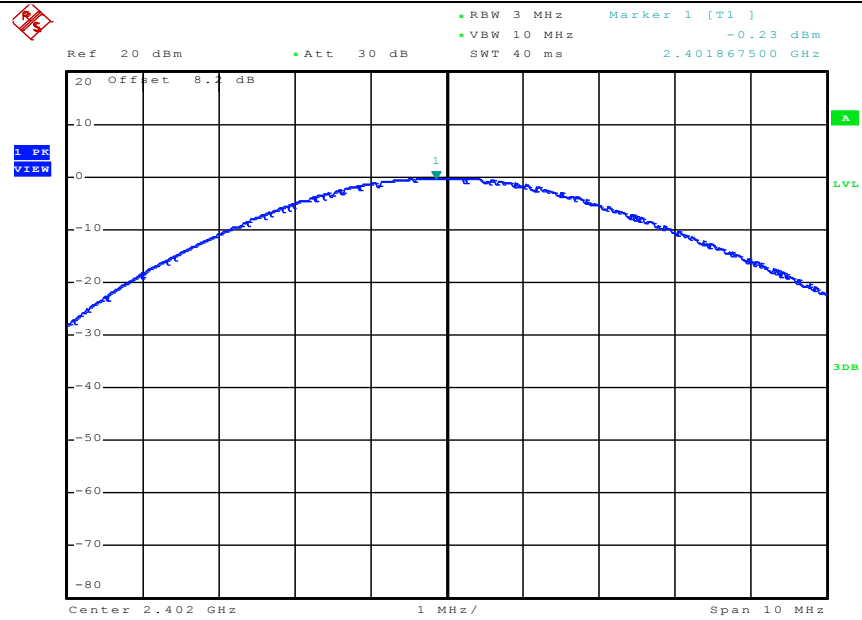
Date: 25.SEP.2019 14:02:52

$\pi/4$ DQPSK/HCH



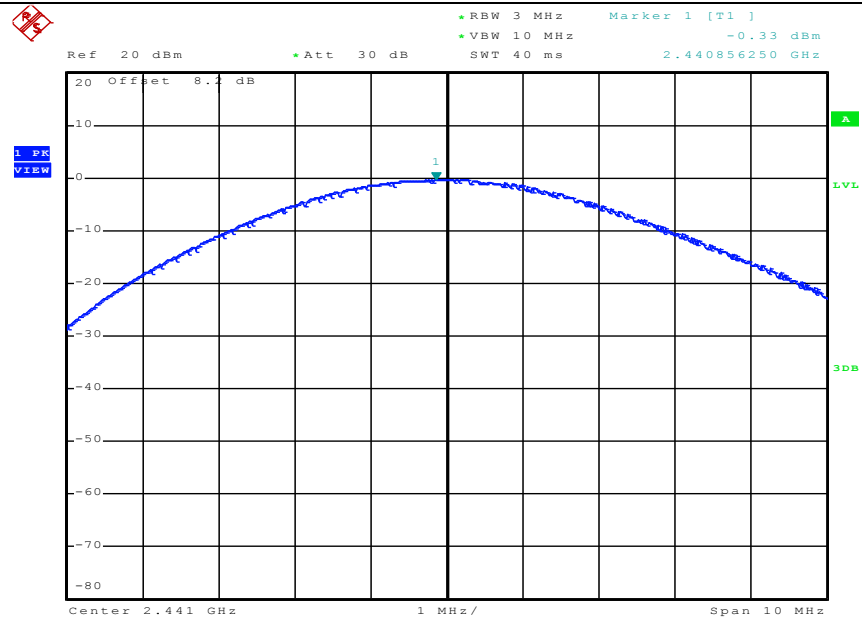
Date: 25.SEP.2019 14:04:35

8DPSK/LCH



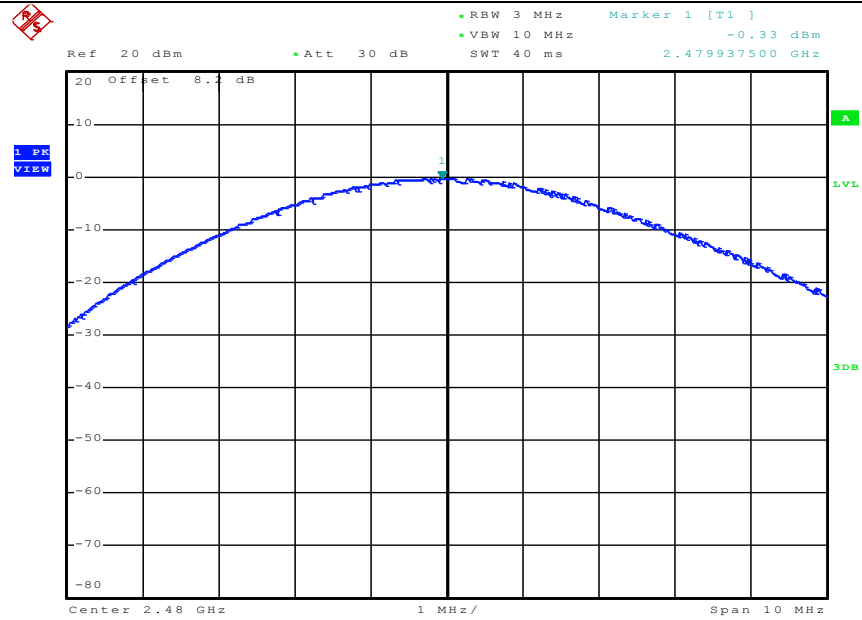
Date: 25.SEP.2019 14:07:12

8DPSK/MCH



Date: 25.SEP.2019 14:09:38

8DPSK/HCH



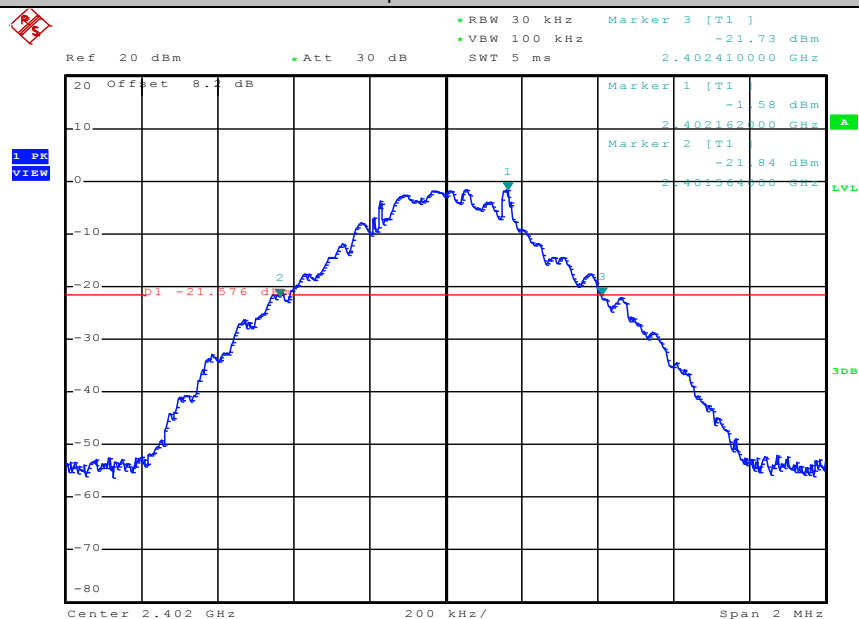
Date: 25.SEP.2019 14:11:20

A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.846	Not Specified	PASS
	MCH	0.856	Not Specified	PASS
	HCH	0.862	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.262	Not Specified	PASS
	MCH	1.276	Not Specified	PASS
	HCH	1.266	Not Specified	PASS
8DPSK	LCH	1.280	Not Specified	PASS
	MCH	1.256	Not Specified	PASS
	HCH	1.286	Not Specified	PASS

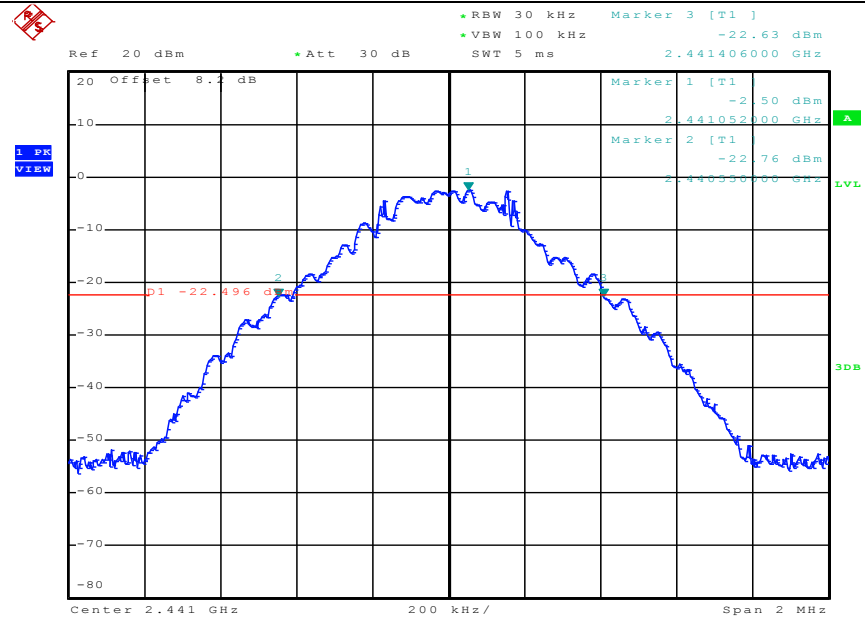
Test Graphs

GFSK/LCH



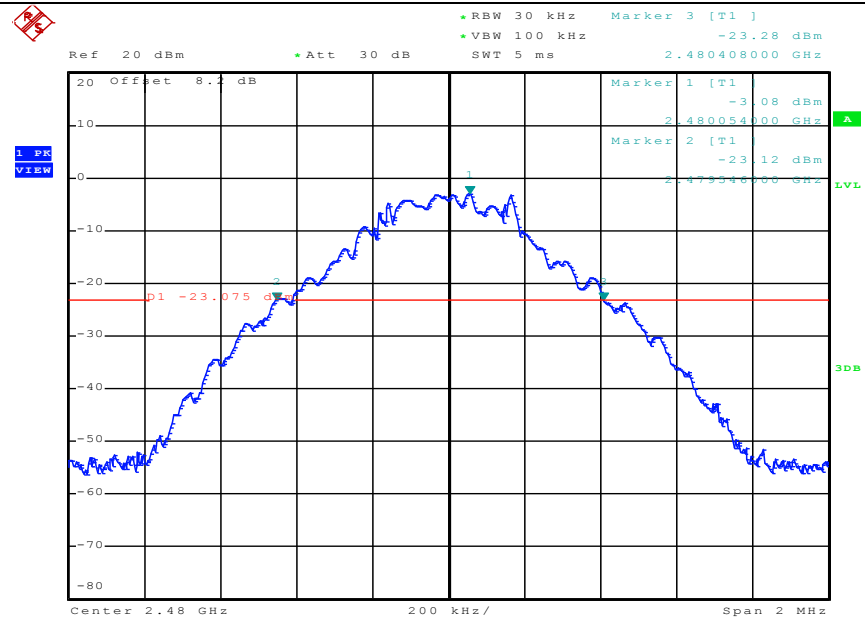
Date: 25.SEP.2019 13:52:59

GFSK/MCH



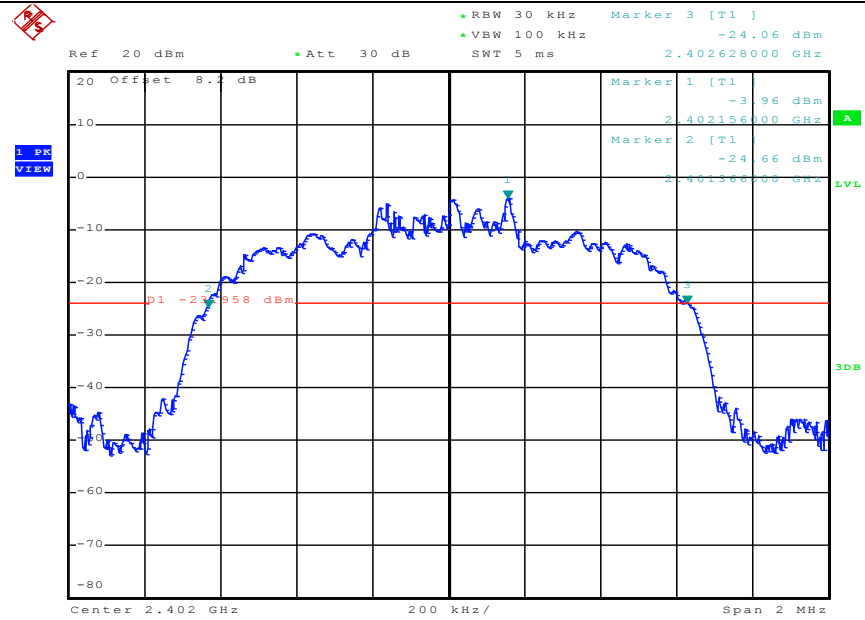
Date: 25.SEP.2019 13:55:29

GFSK/HCH



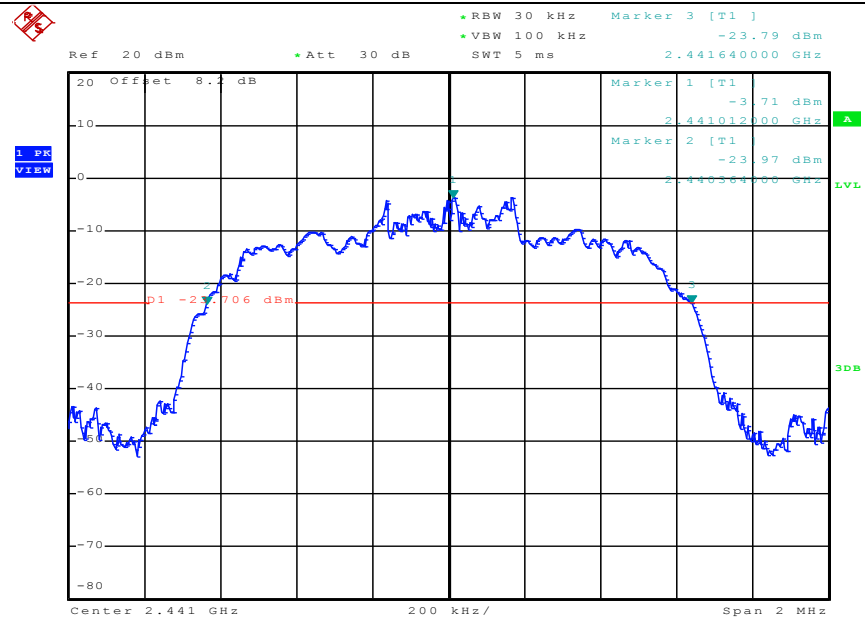
Date: 25.SEP.2019 13:57:09

$\pi/4$ DQPSK/LCH



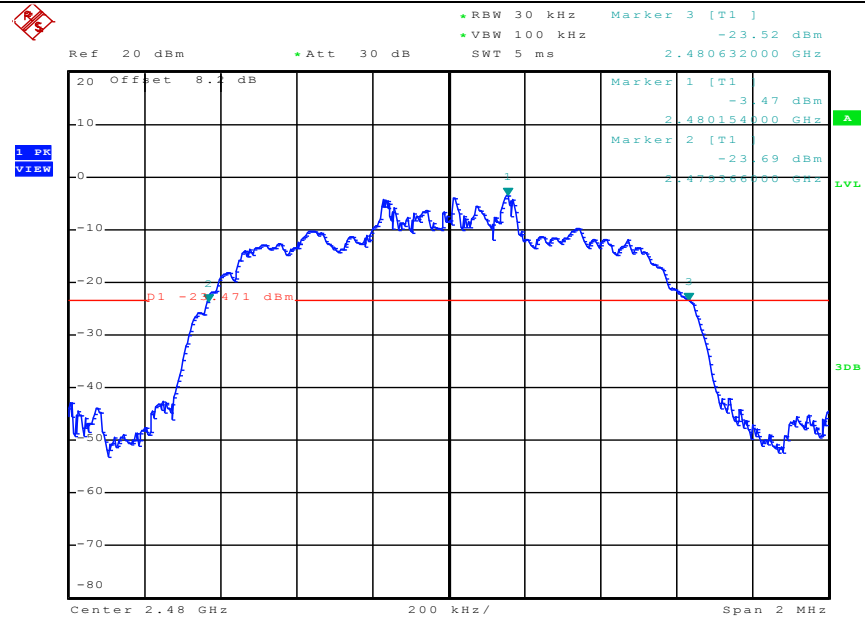
Date: 25.SEP.2019 13:59:43

$\pi/4$ DQPSK/MCH



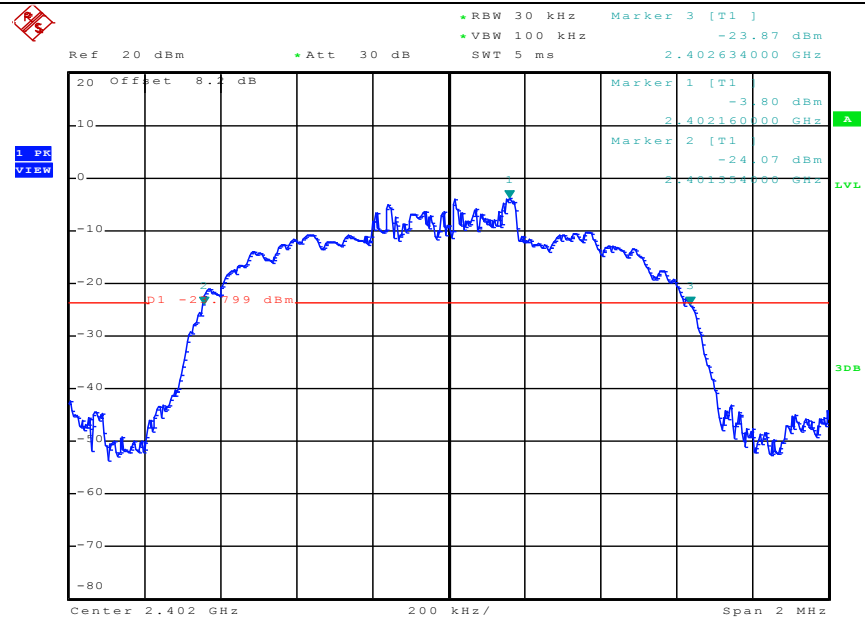
Date: 25.SEP.2019 14:02:15

$\pi/4$ DQPSK/HCH



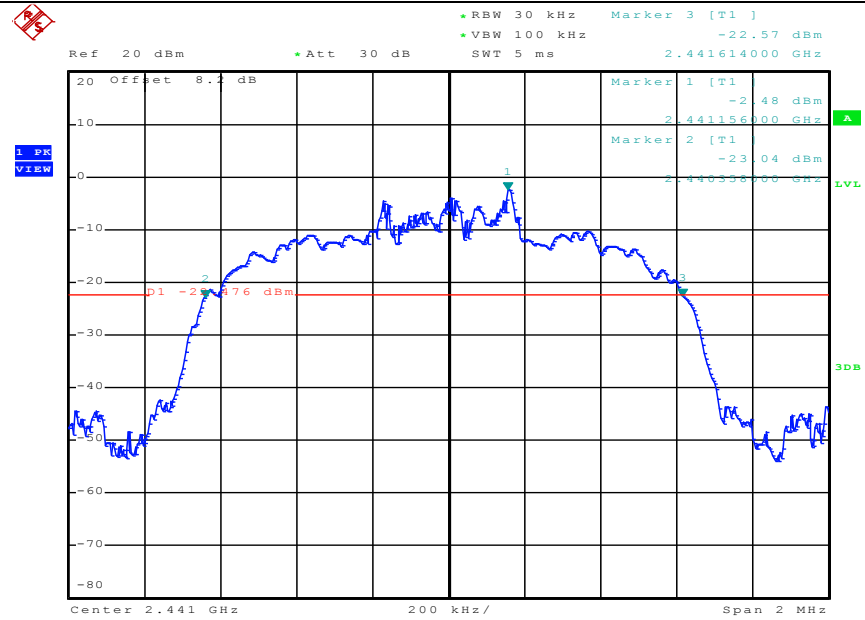
Date: 25.SEP.2019 14:03:58

8DPSK/LCH



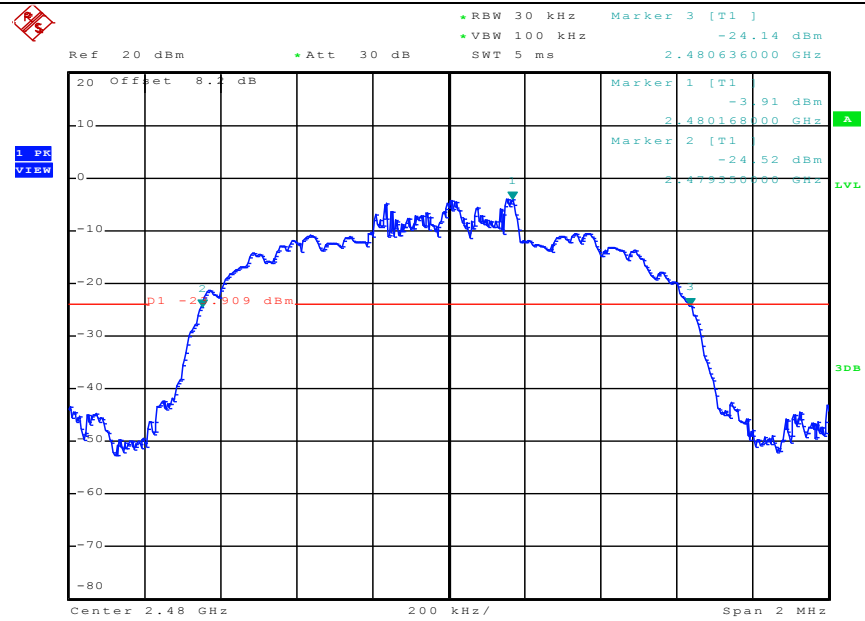
Date: 25.SEP.2019 14:06:35

8DPSK/MCH



Date: 25.SEP.2019 14:09:01

8DPSK/HCH



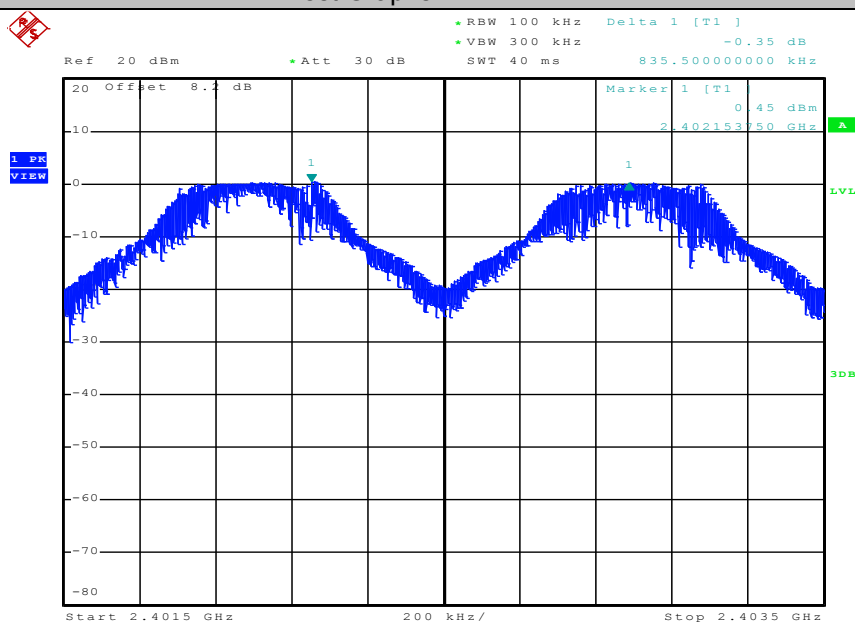
Date: 25.SEP.2019 14:10:43

A.3 Carrier Frequency Separation

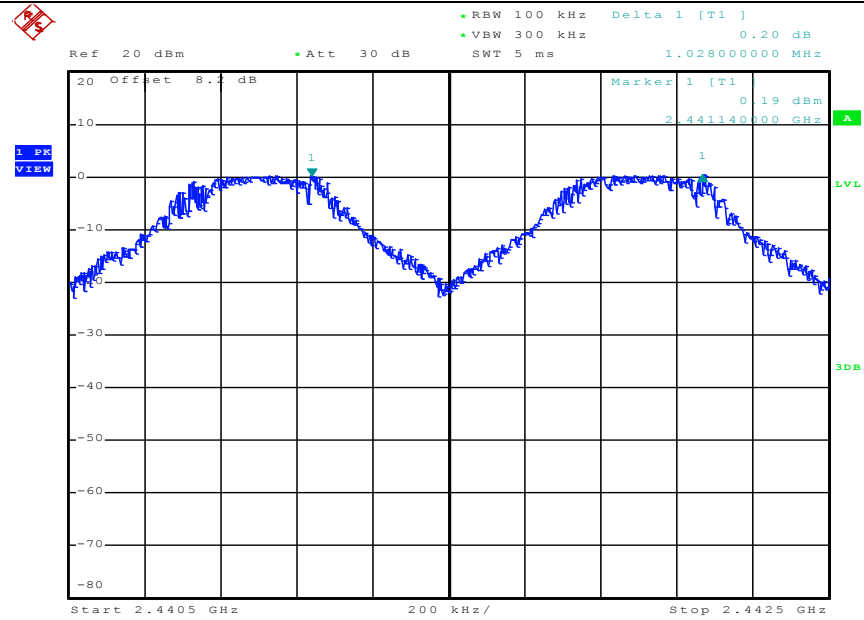
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.836	0.575	PASS
	MCH	1.028	0.575	PASS
	HCH	1.112	0.575	PASS
$\pi/4$ DQPSK	LCH	1.172	0.851	PASS
	MCH	1.354	0.851	PASS
	HCH	1.084	0.851	PASS
8DPSK	LCH	1.196	0.857	PASS
	MCH	1.178	0.857	PASS
	HCH	1.310	0.857	PASS

Test Graphs

GFSK/LCH

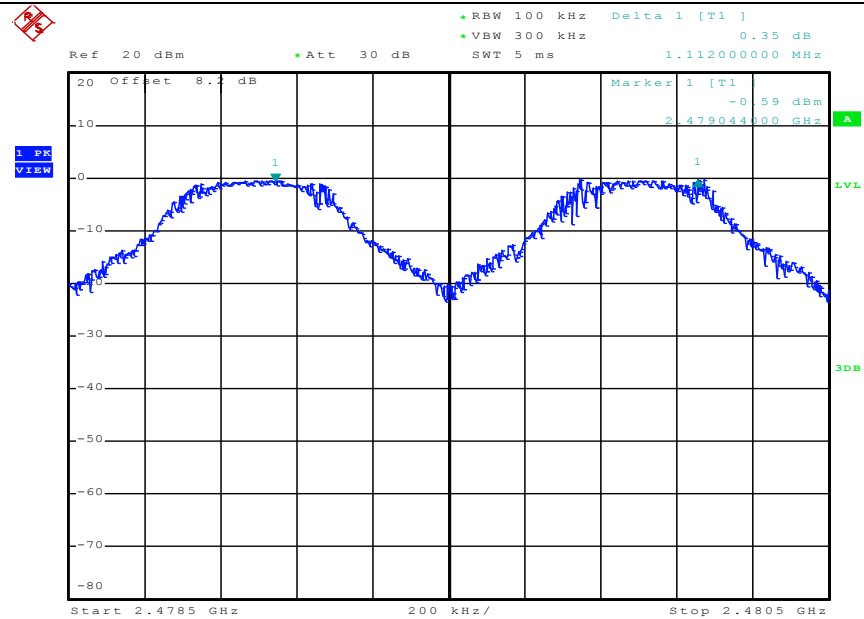


GFSK/MCH



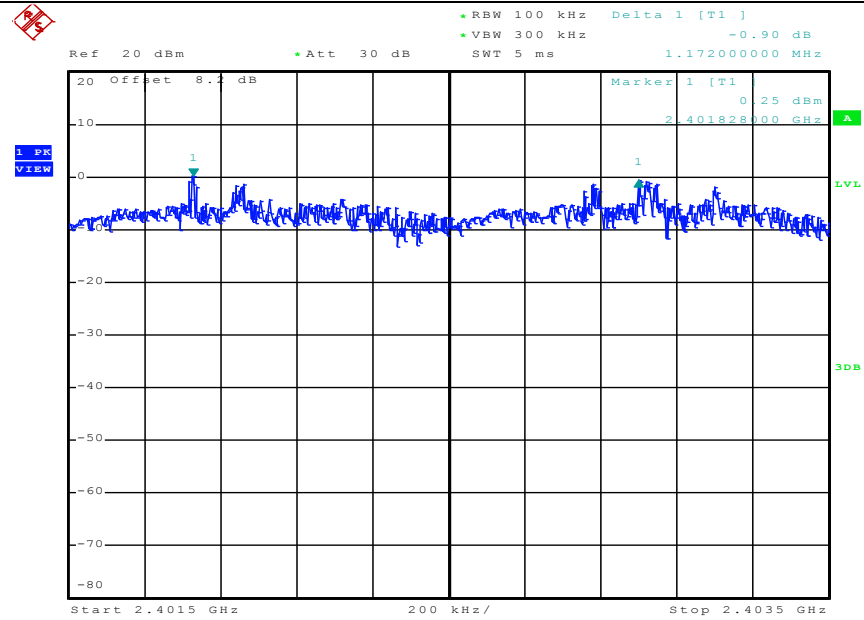
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GFSK/HCH



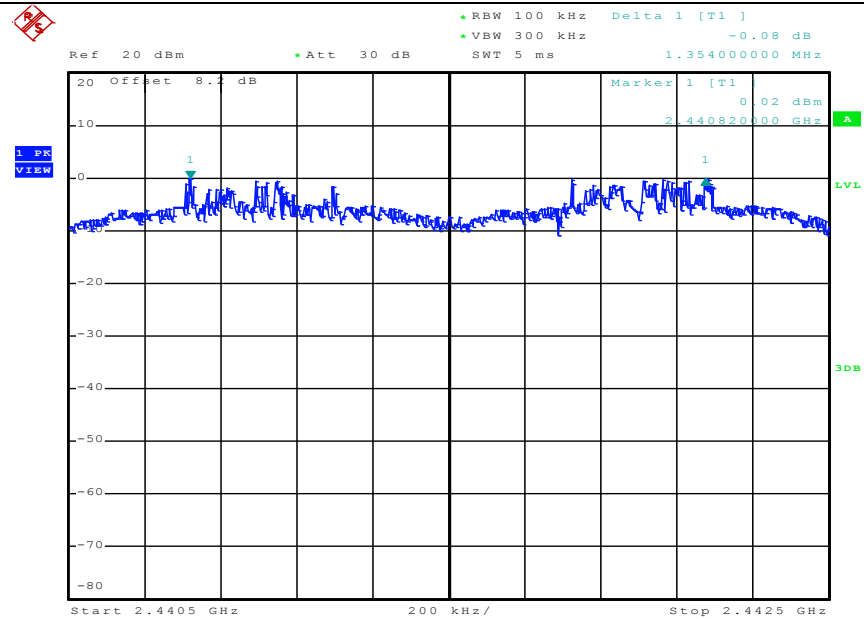
Date: 25.SEP.2019 14:17:59

$\pi/4$ DQPSK/LCH



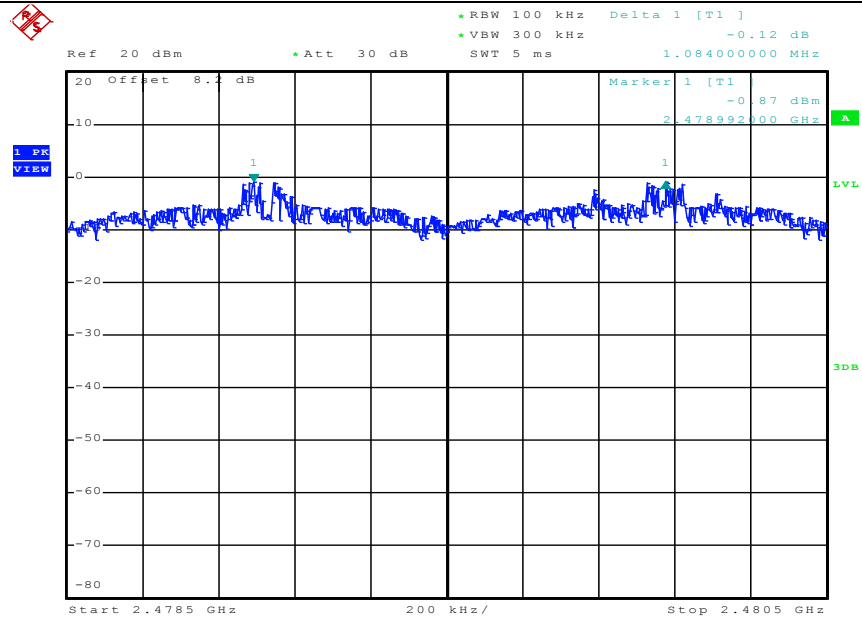
Date: 25.SEP.2019 14:22:33

$\pi/4$ DQPSK/MCH



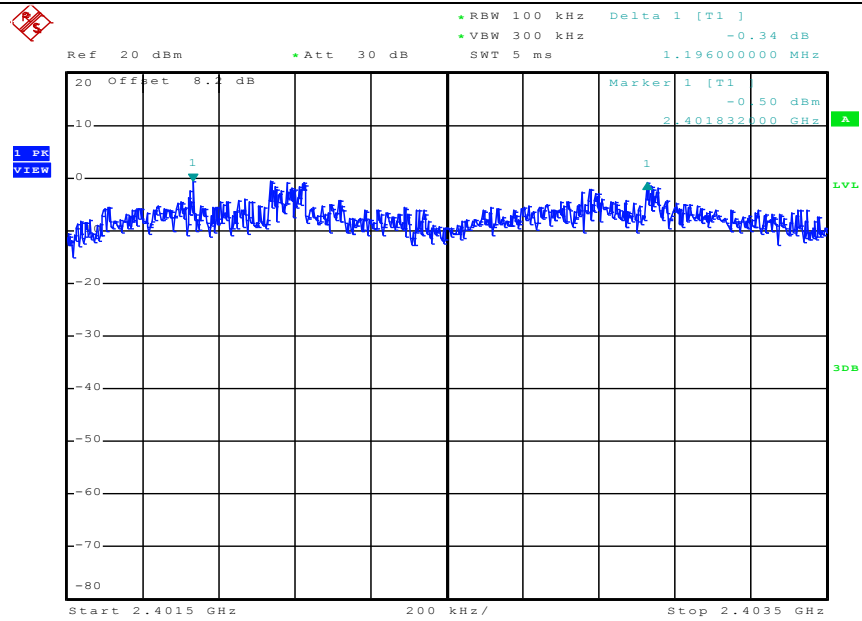
Date: 25.SEP.2019 14:25:24

$\pi/4$ DQPSK/HCH



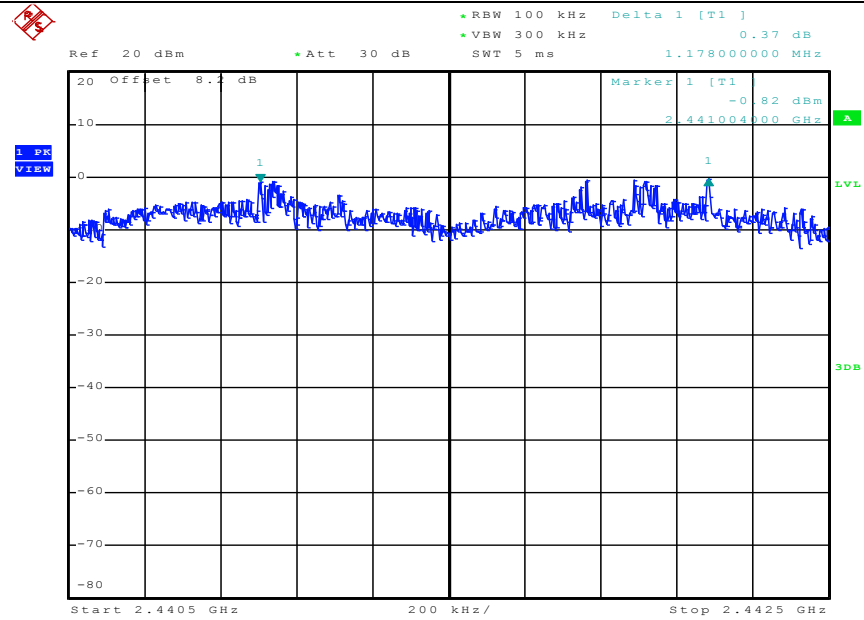
Date: 25.SEP.2019 14:26:09

8DPSK/LCH



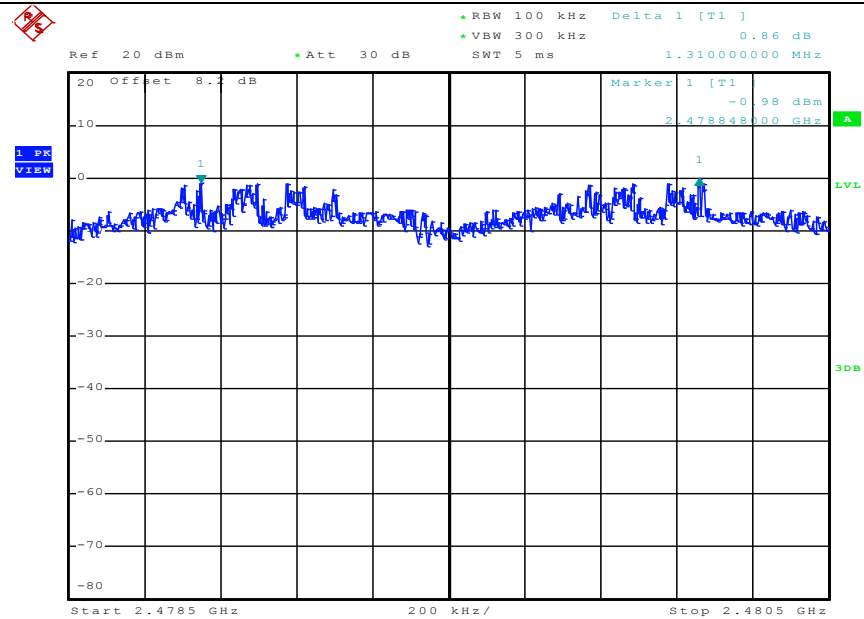
Date: 25.SEP.2019 14:30:06

8DPSK/MCH



Date: 25.SEP.2019 14:32:24

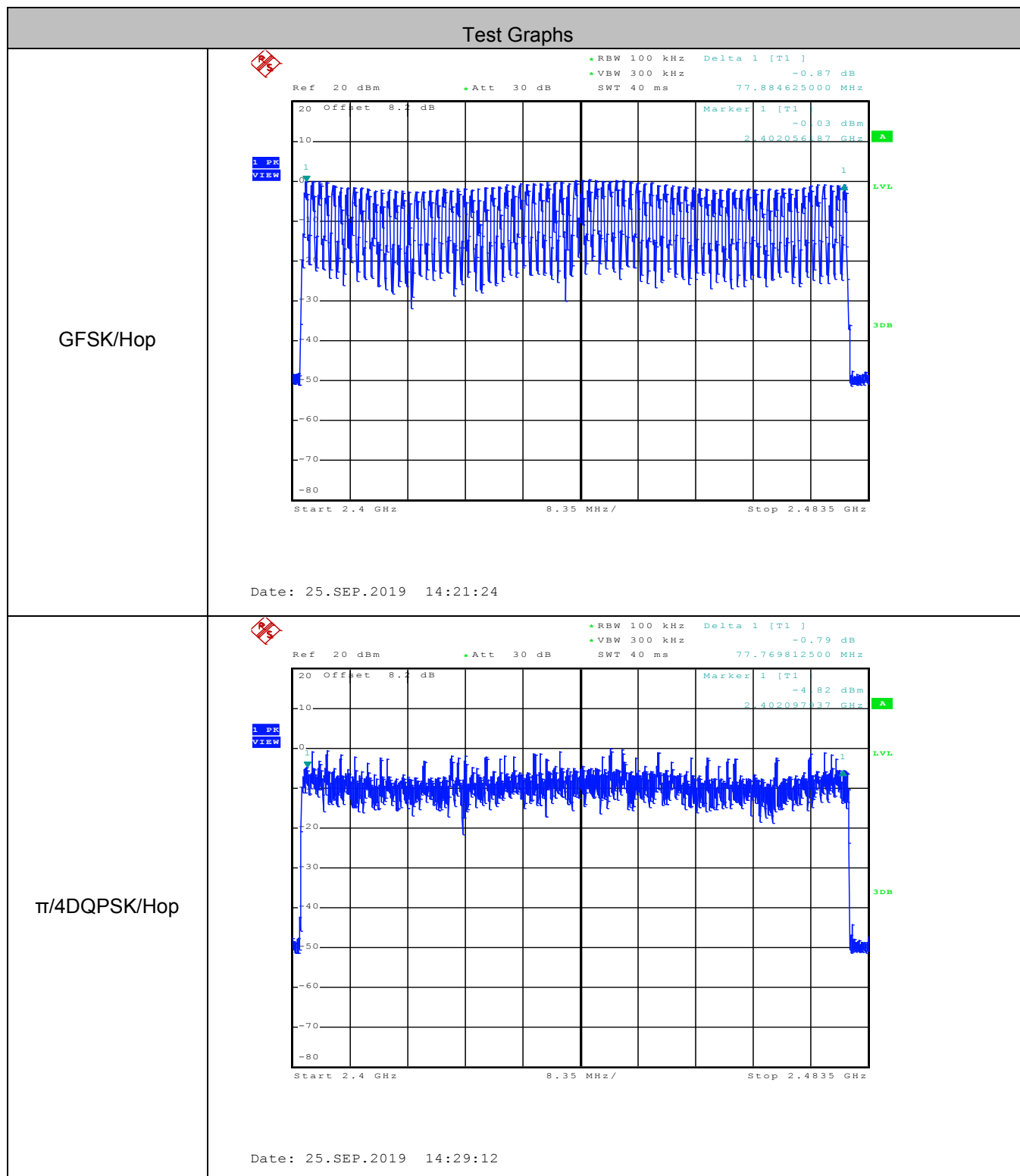
8DPSK/HCH



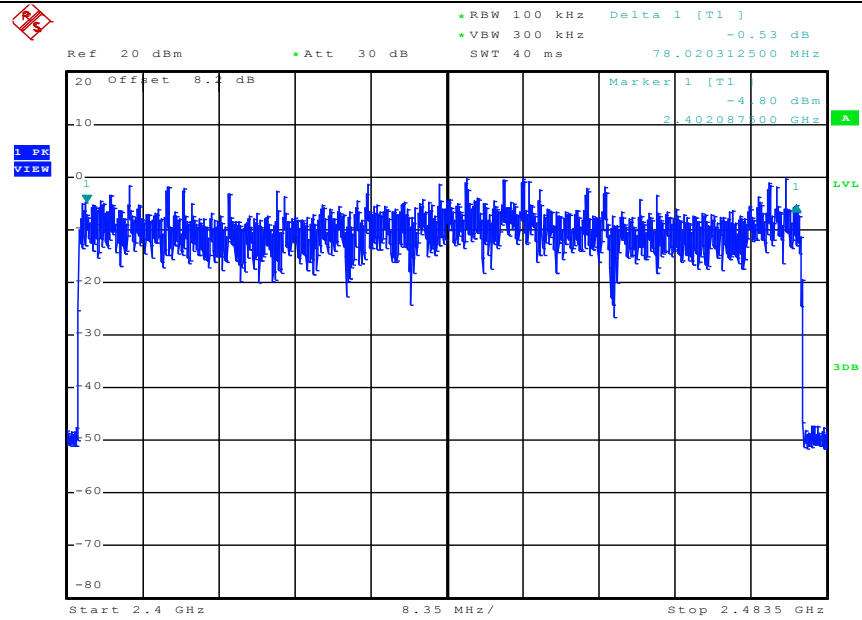
Date: 25.SEP.2019 14:37:28

A.4 Hopping Channel Number

Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	>=15	PASS
$\pi/4$ DQPSK	Hop	79	>=15	PASS
8DPSK	Hop	79	>=15	PASS



8DPSK/Hop



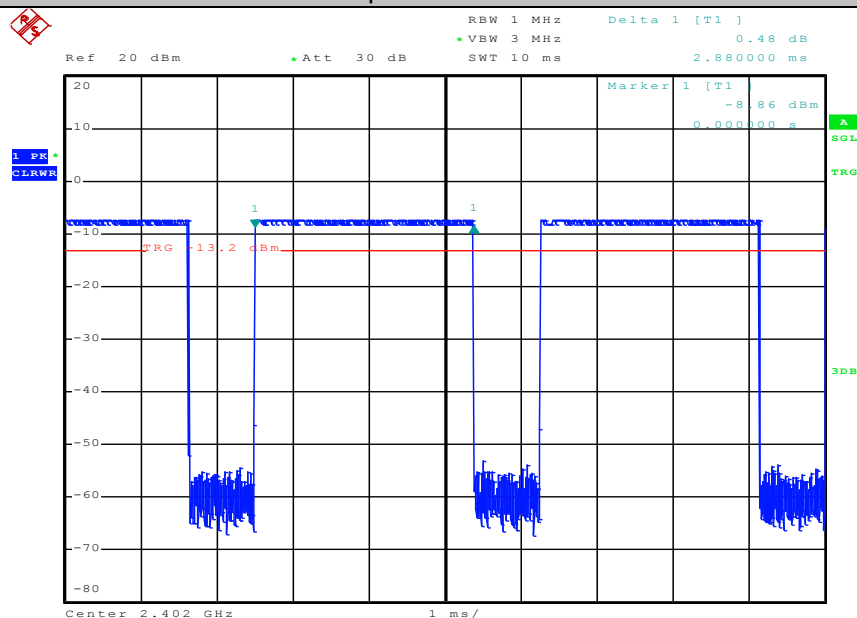
Date: 25.SEP.2019 14:36:31

A.5 Dwell Time

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.88	106.7	0.307	0.4	PASS
	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88	106.7	0.307	0.4	PASS
8DPSK	3DH5	LCH	2.88	106.7	0.308	0.4	PASS
	3DH5	MCH	2.88	106.7	0.308	0.4	PASS
	3DH5	HCH	2.88	106.7	0.308	0.4	PASS

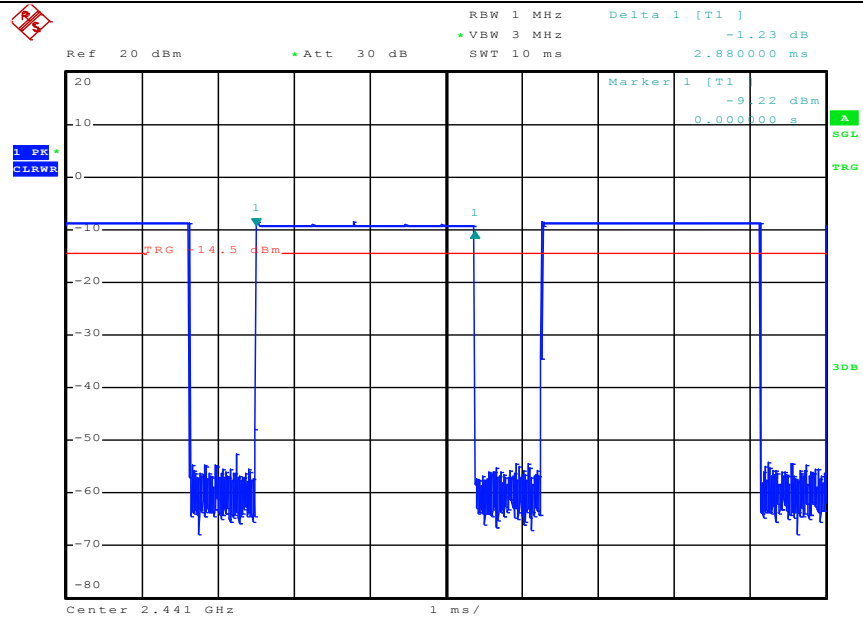
Test Graphs

GFSK_DH5/LCH



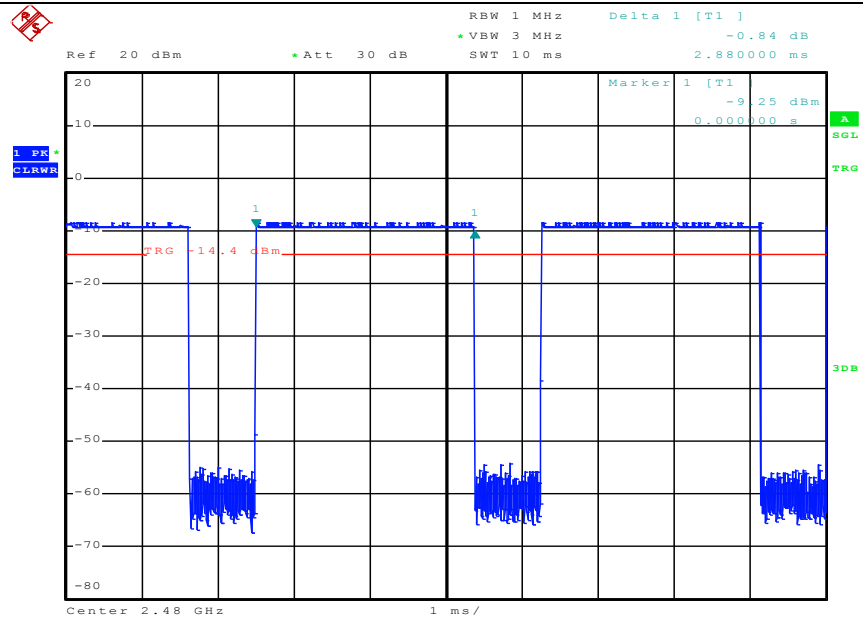
Date: 25.SEP.2019 13:53:21

GFSK_DH5/MCH



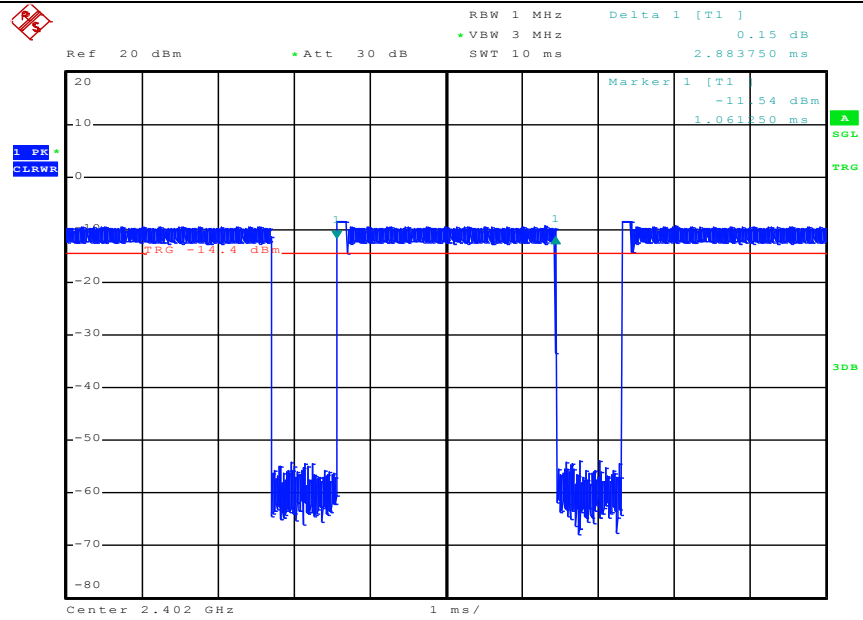
Date: 25.SEP.2019 13:55:51

GFSK_DH5/HCH



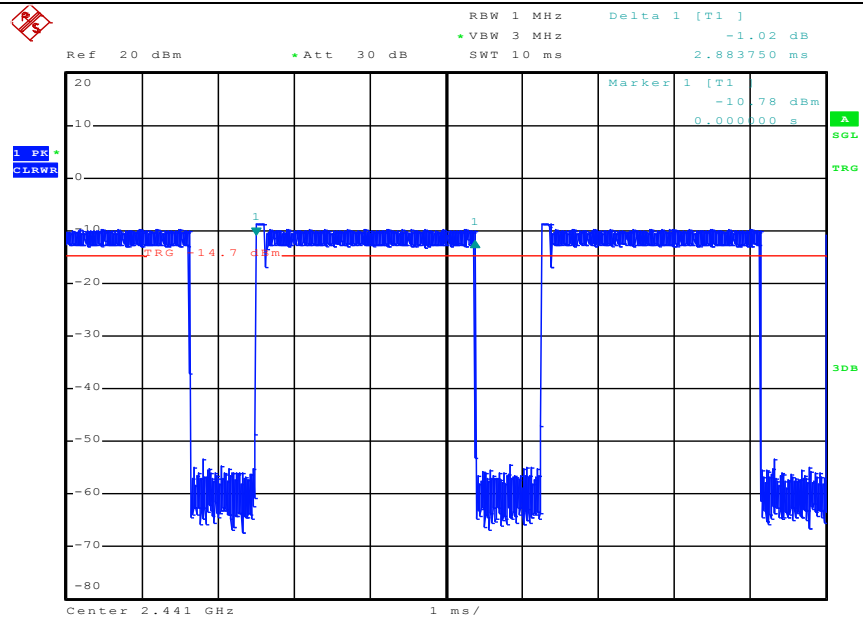
Date: 25.SEP.2019 13:57:30

$\pi/4$ DQPSK
_2DH5/LCH



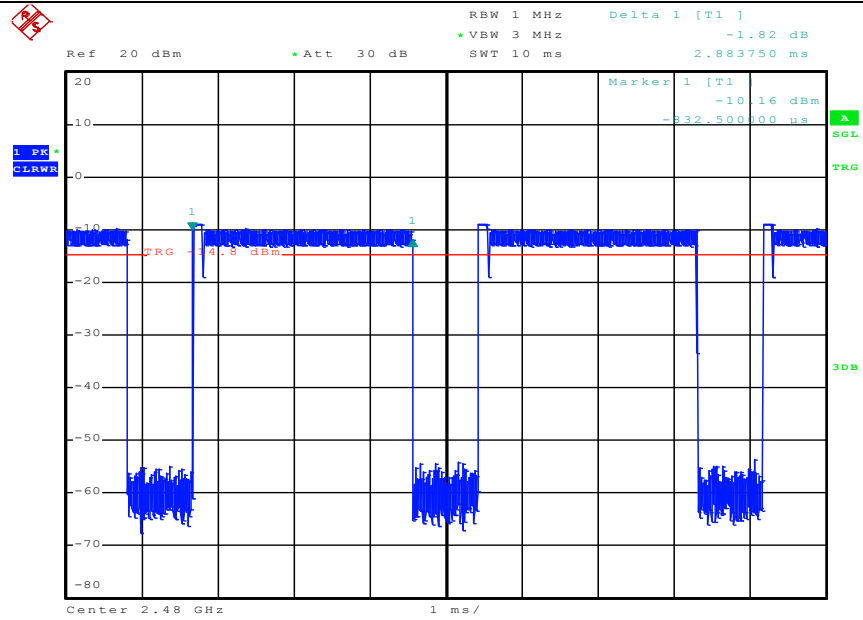
Date: 25.SEP.2019 14:00:05

$\pi/4$ DQPSK
_2DH5/MCH



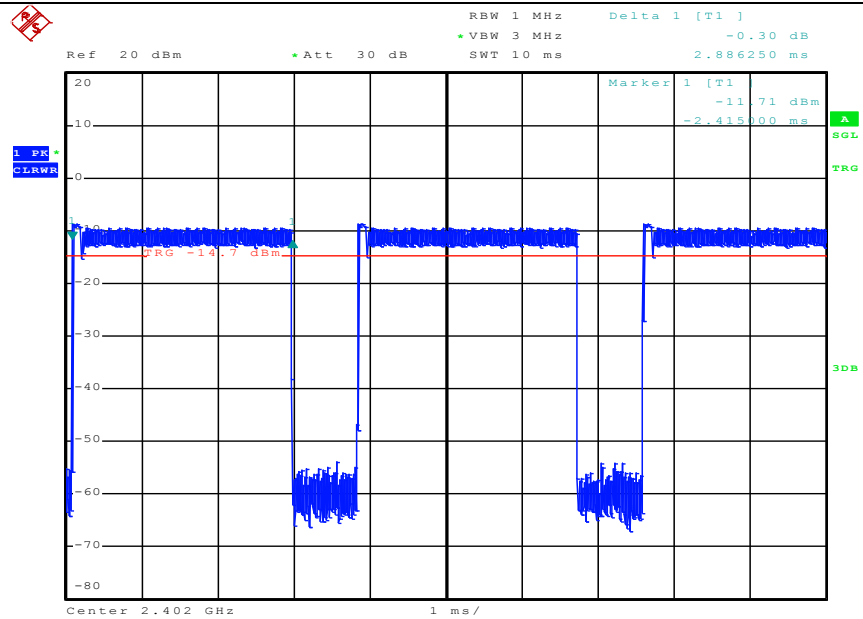
Date: 25.SEP.2019 14:02:37

$\pi/4$ DQPSK
_2DH5/HCH



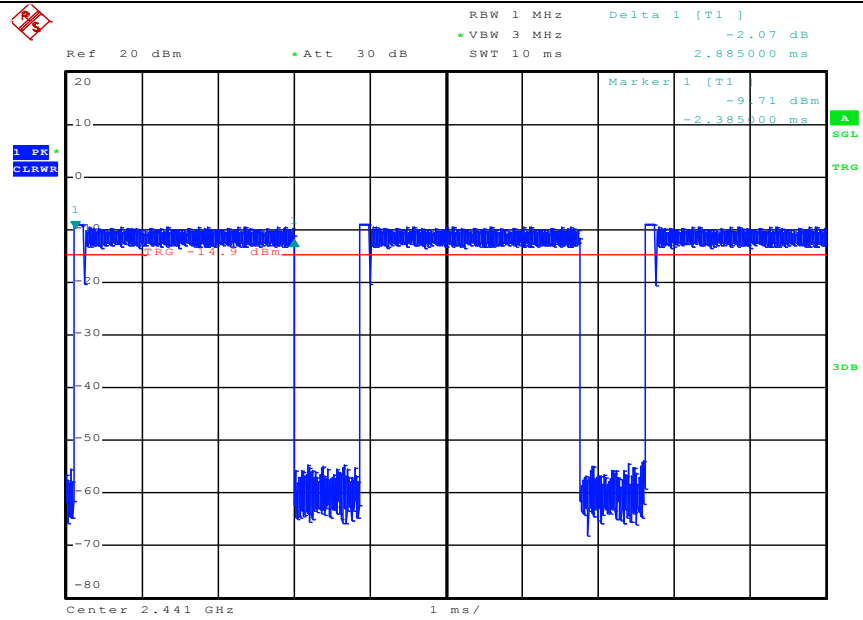
Date: 25.SEP.2019 14:04:20

8DPSK_3DH5/LCH



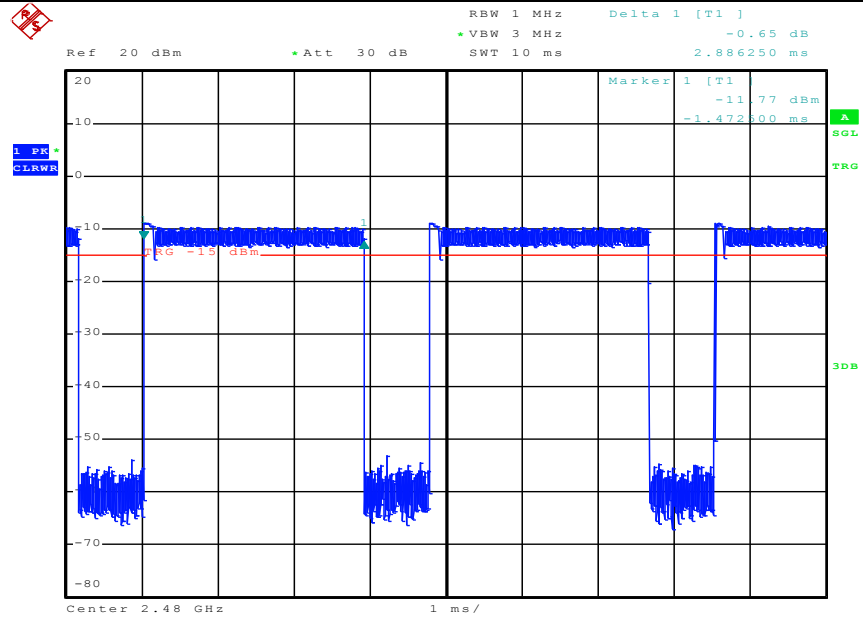
Date: 25.SEP.2019 14:06:57

8DPSK_3DH5/MCH



Date: 25.SEP.2019 14:09:23

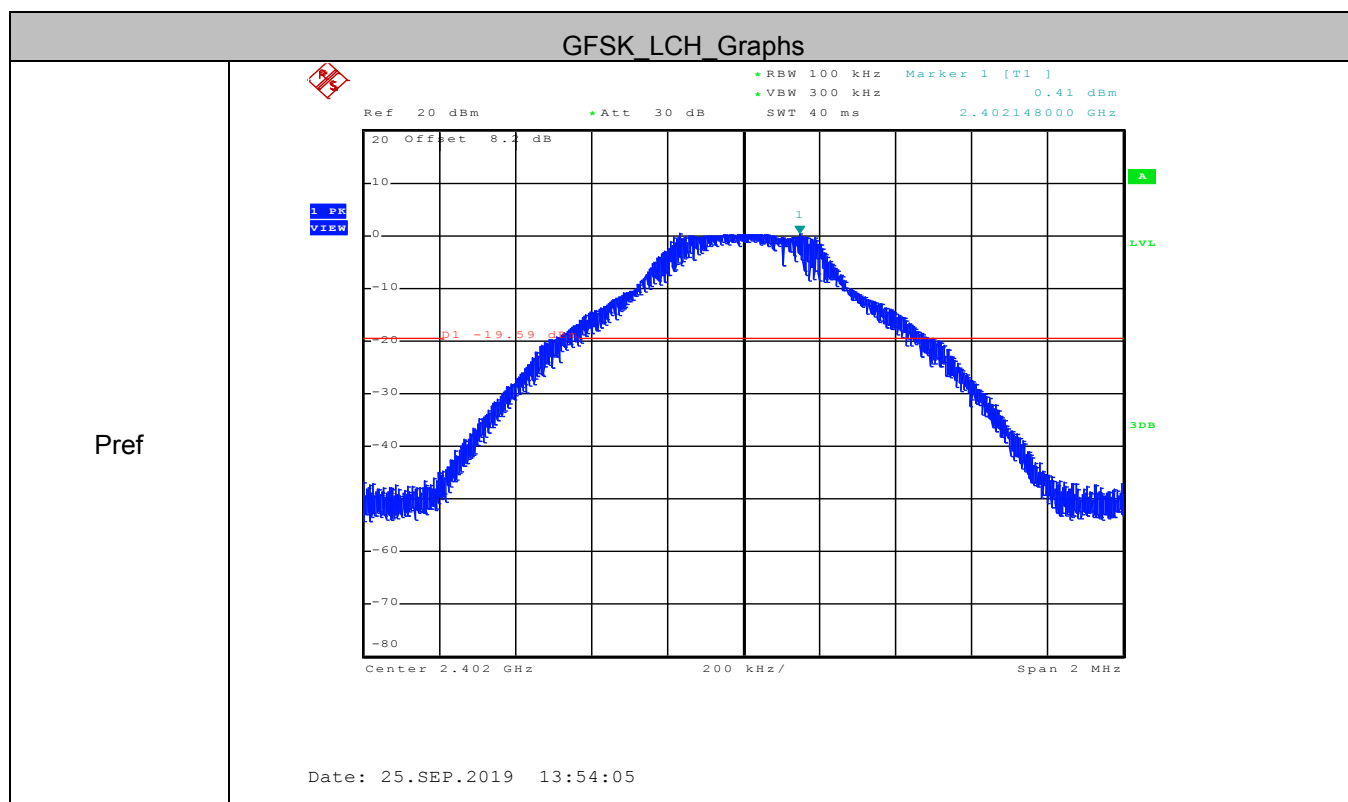
8DPSK_3DH5/HCH



Date: 25.SEP.2019 14:11:05

A.6 RF Conducted Spurious Emissions

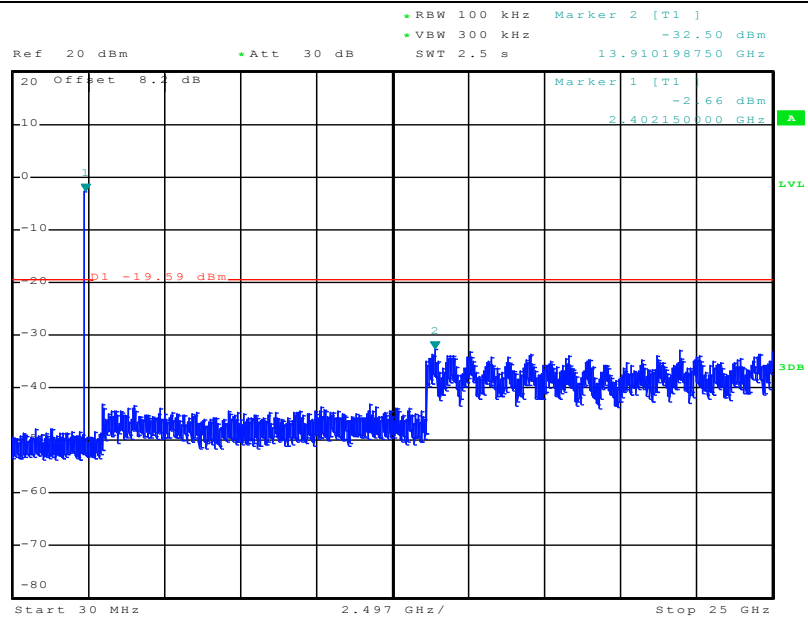
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	0.41	-32.500	-19.590	PASS
	MCH	-0.49	-32.840	-20.490	PASS
	HCH	-0.24	-32.340	-20.240	PASS
$\pi/4$ DQPSK	LCH	0.23	-32.730	-19.770	PASS
	MCH	0.19	-32.190	-19.810	PASS
	HCH	-0.39	-32.100	-20.390	PASS
8DPSK	LCH	-0.15	-31.650	-20.150	PASS
	MCH	-0.38	-31.950	-20.380	PASS
	HCH	-0.23	-33.130	-20.230	PASS



P_{uw}



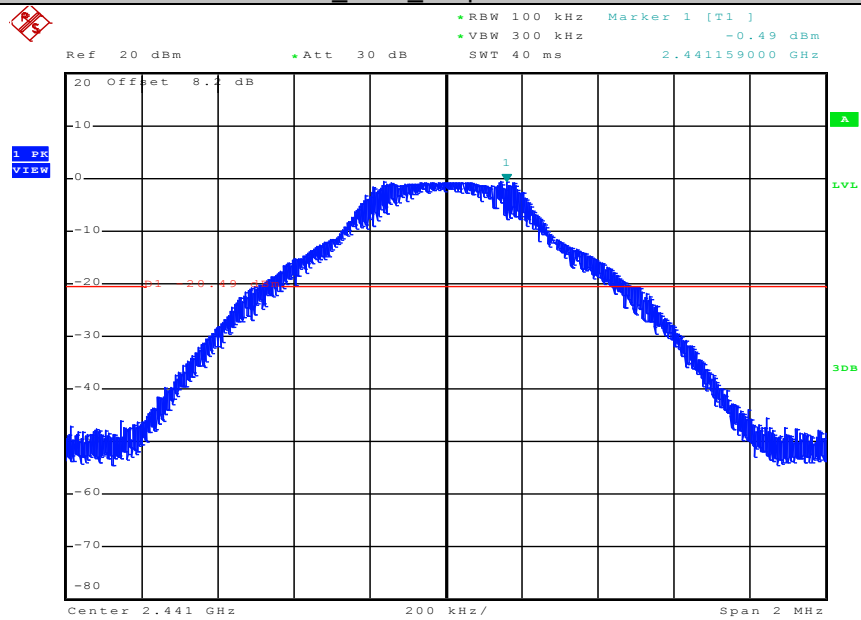
1. PK
VIEW



Date: 25.SEP.2019 13:54:19

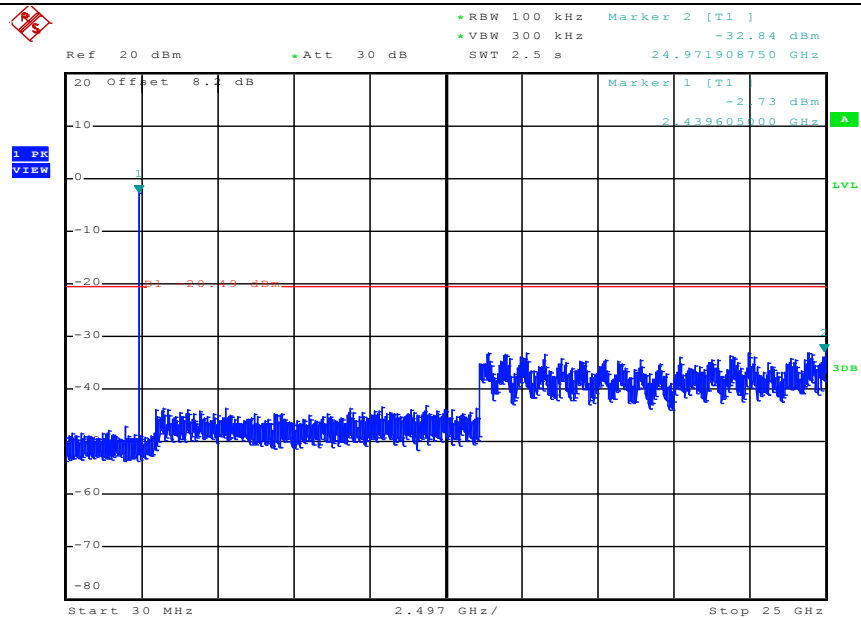
GFSK_MCH_Graphs

Pref



Date: 25.SEP.2019 13:56:18

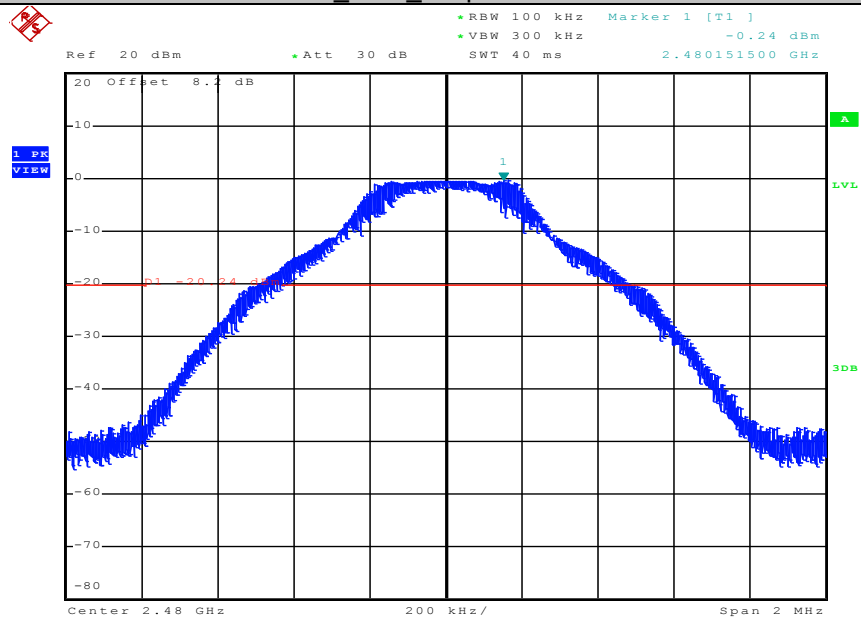
Puw



Date: 25.SEP.2019 13:56:32

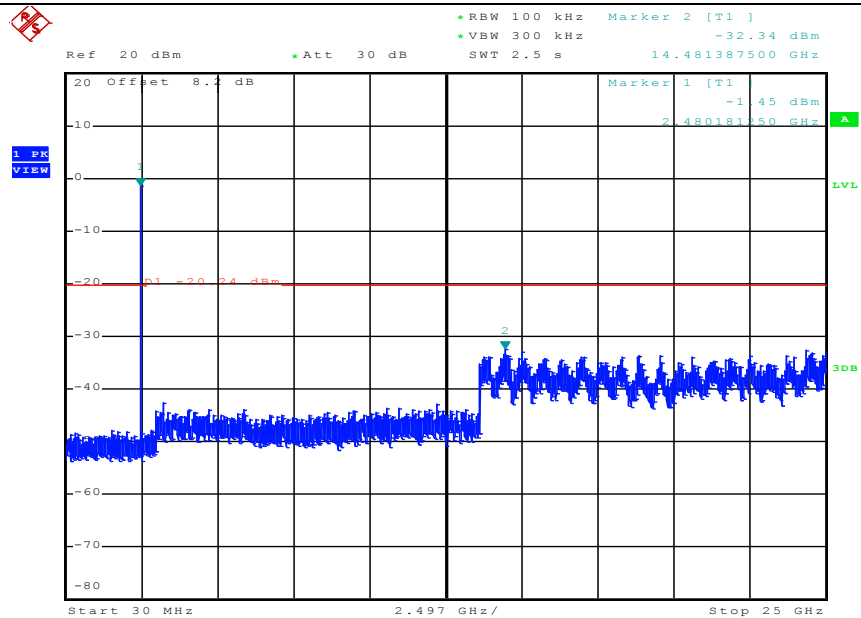
GFSK_HCH_Graphs

Pref



Date: 25.SEP.2019 13:58:15

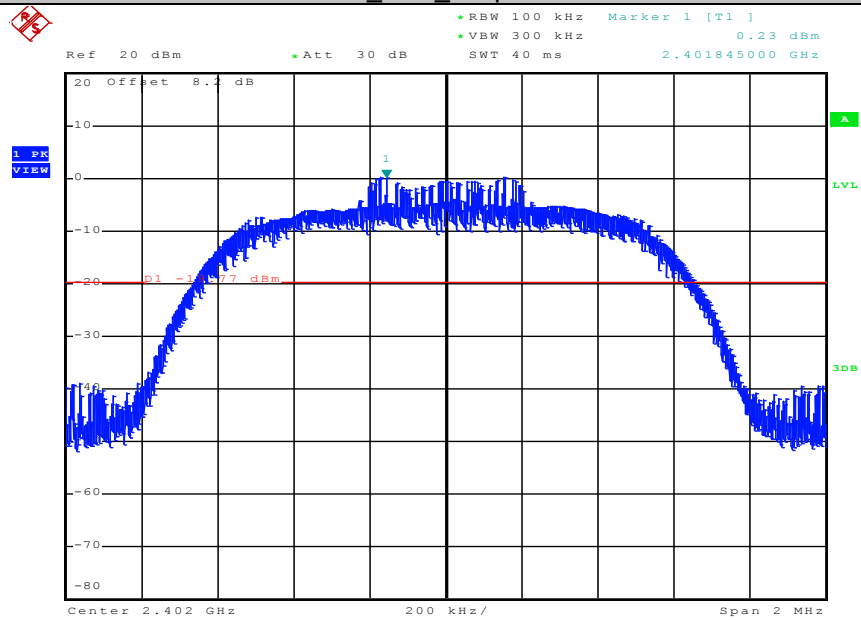
Puw



Date: 25.SEP.2019 13:58:29

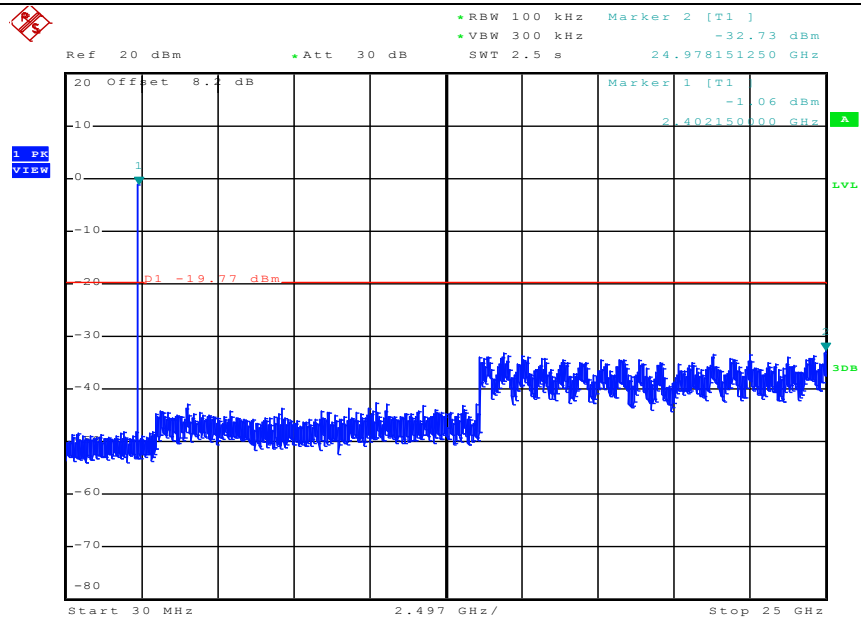
$\pi/4$ DQPSK_LCH_Graphs

Pref



Date: 25.SEP.2019 14:00:50

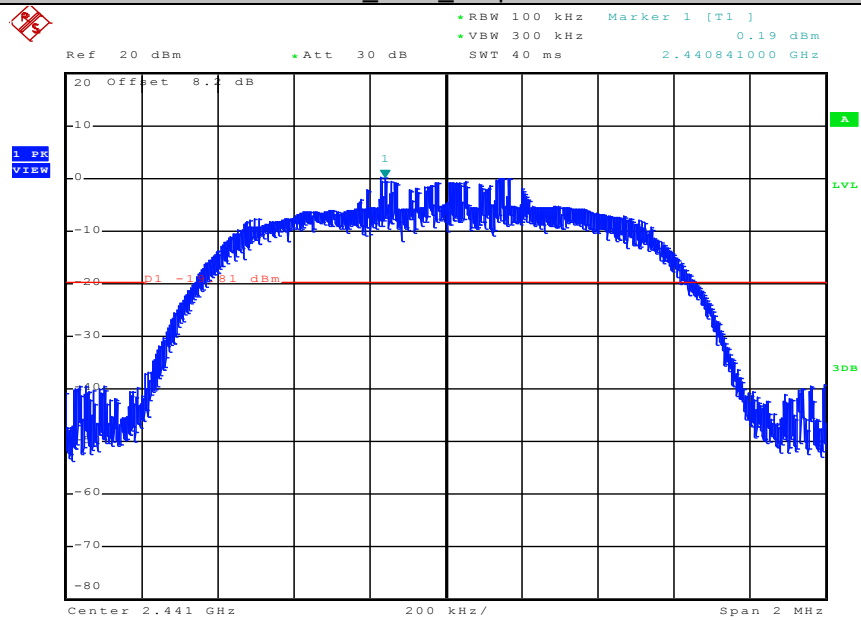
Puw



Date: 25.SEP.2019 14:01:04

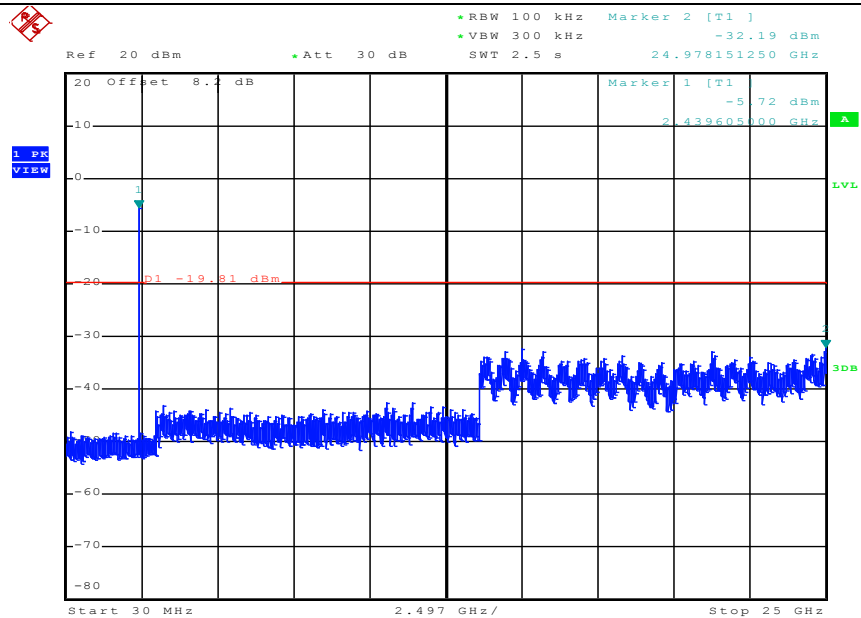
$\pi/4$ DQPSK_MCH_Graphs

Pref



Date: 25.SEP.2019 14:03:05

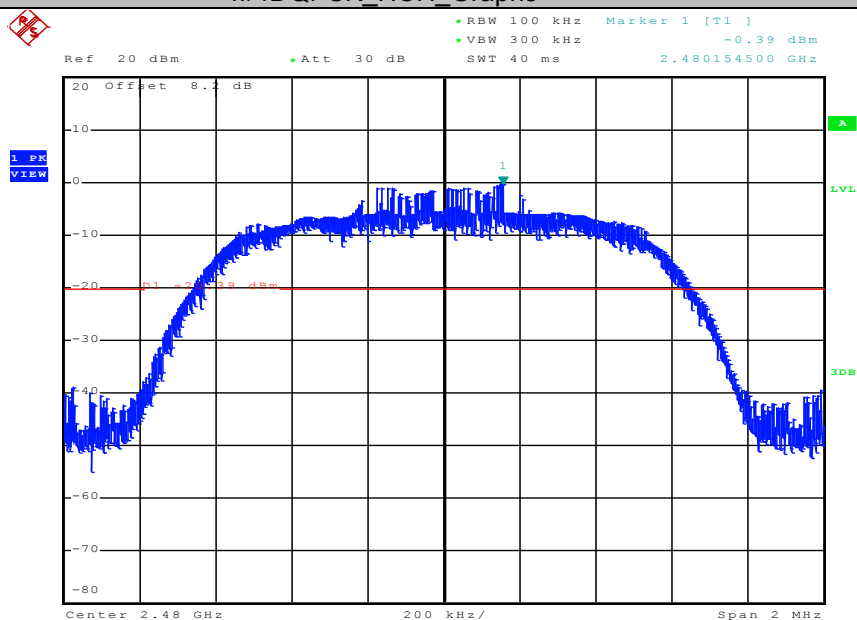
Puw



Date: 25.SEP.2019 14:03:20

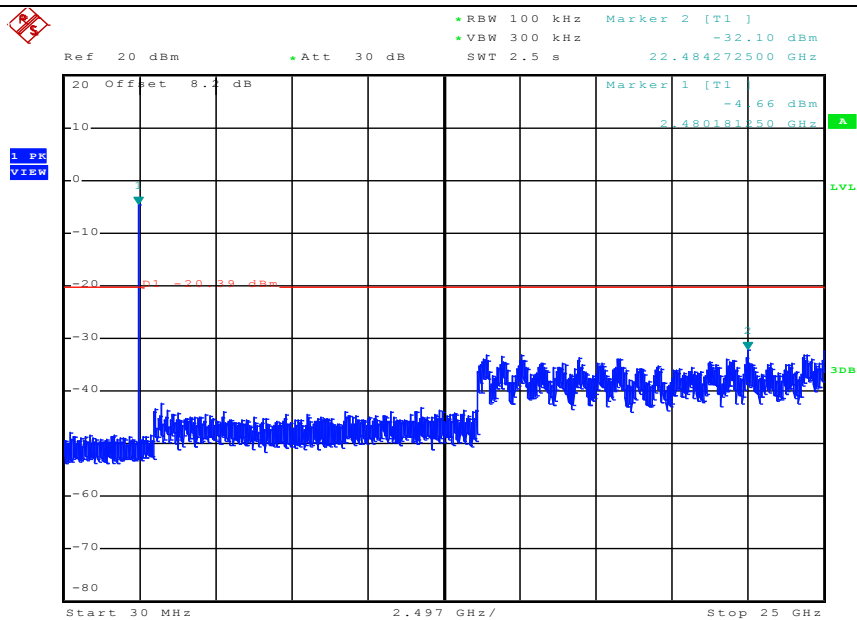
$\pi/4$ DQPSK_HCH_Graphs

Pref



Date: 25.SEP.2019 14:05:04

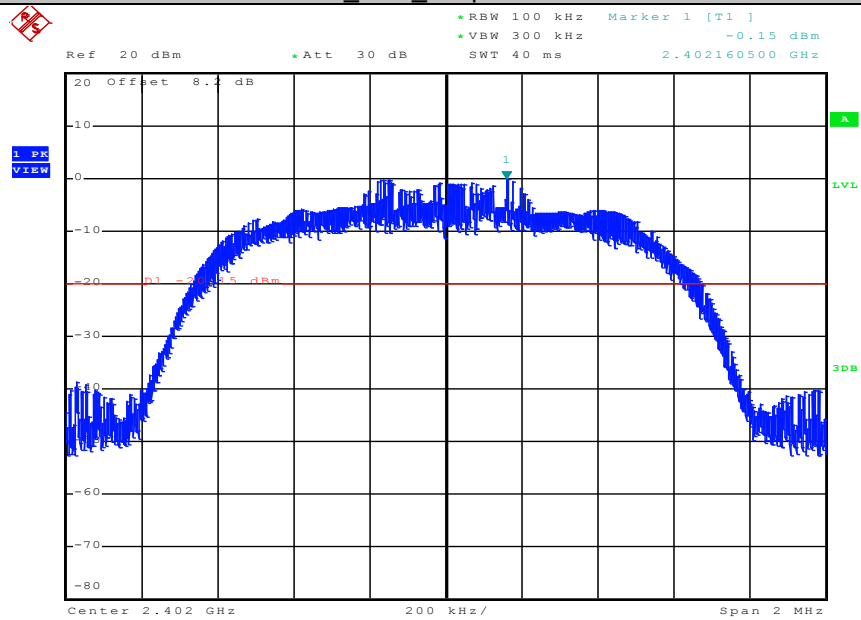
Puw



Date: 25.SEP.2019 14:05:19

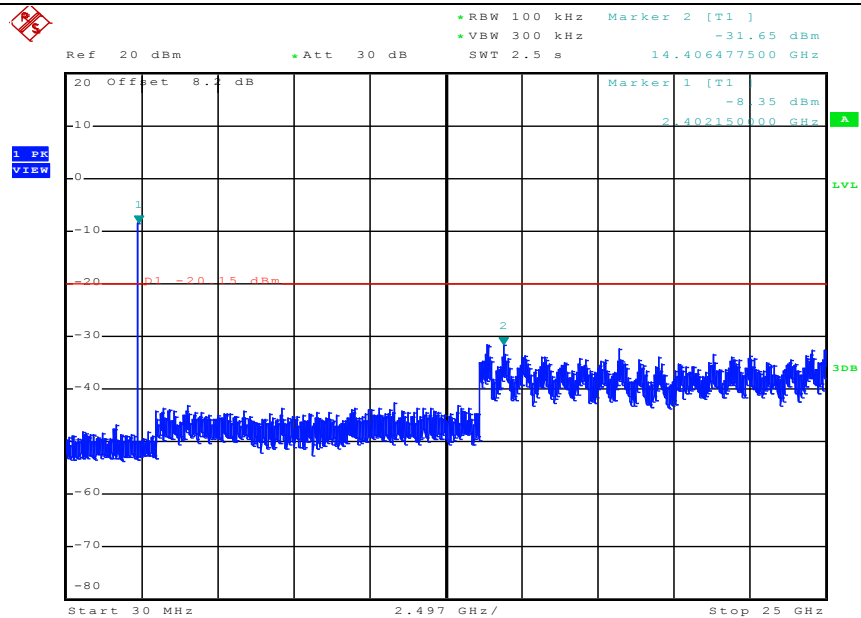
8DPSK_LCH_Graphs

Pref



Date: 25.SEP.2019 14:07:41

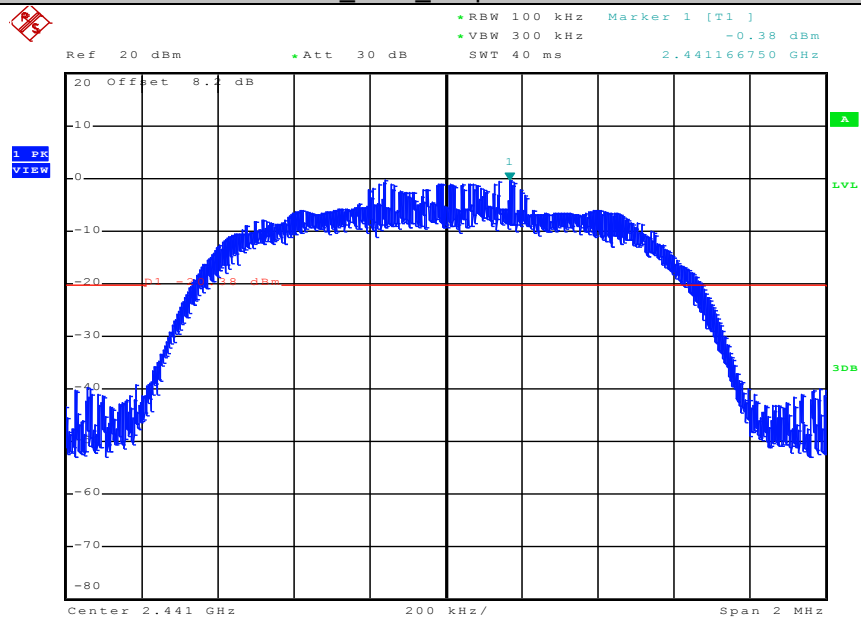
Puw



Date: 25.SEP.2019 14:07:55

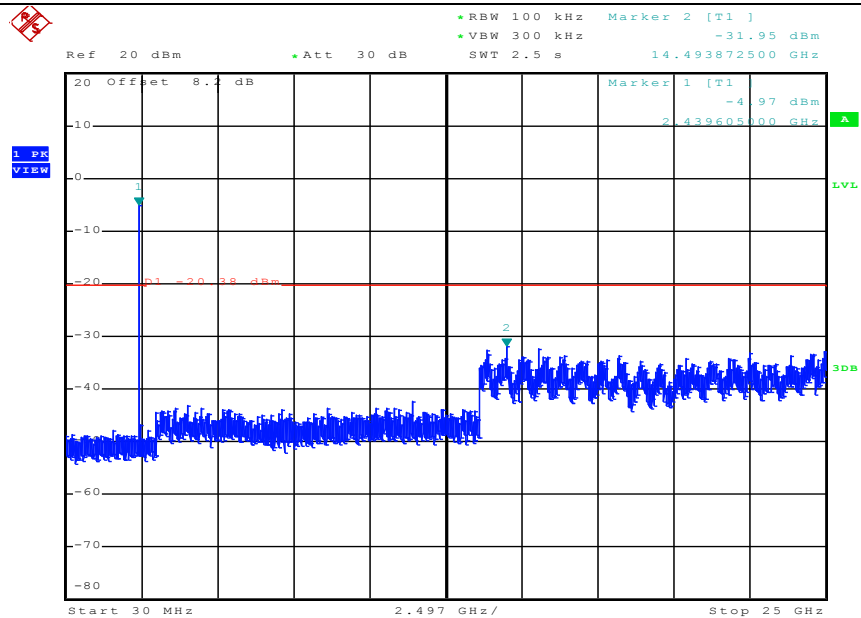
8DPSK_MCH_Graphs

Pref



Date: 25.SEP.2019 14:09:51

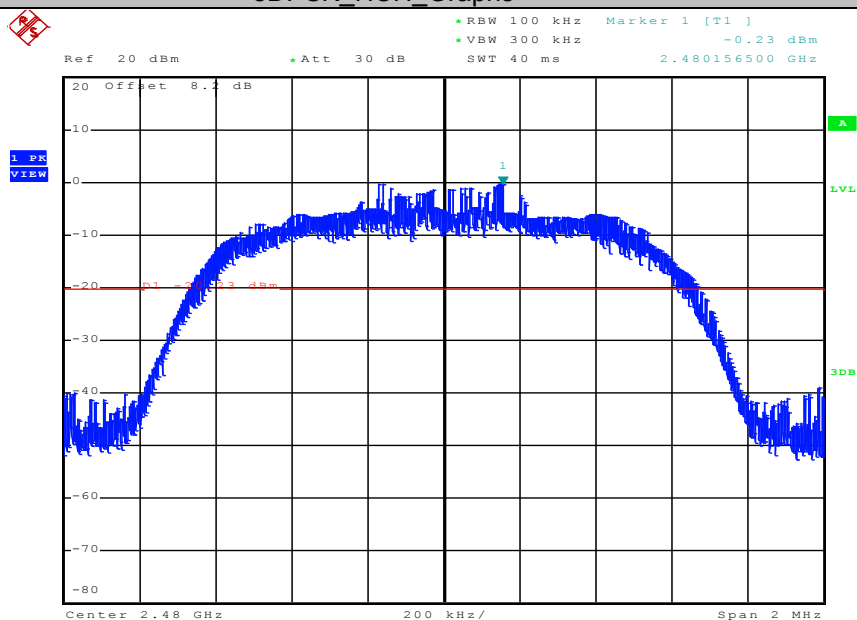
Puw



Date: 25.SEP.2019 14:10:05

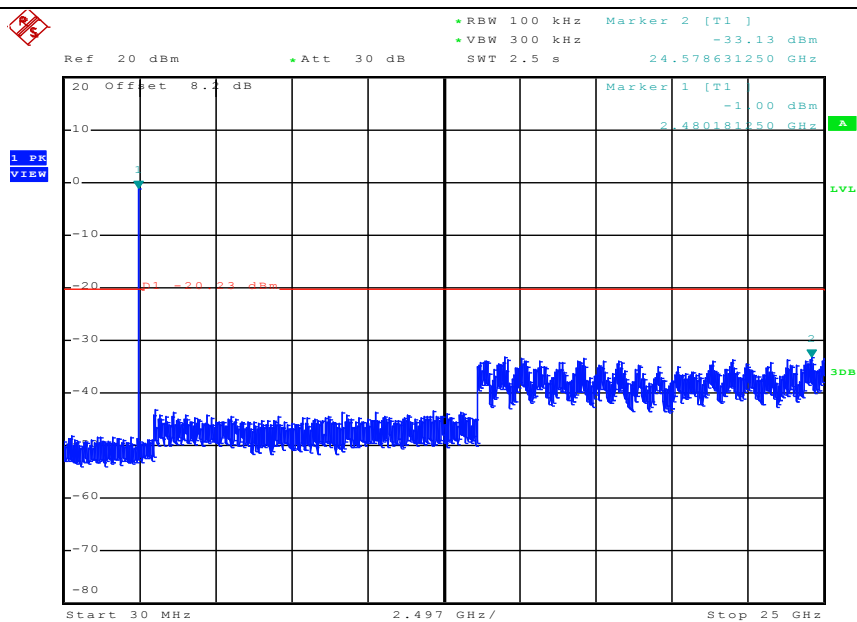
8DPSK_HCH_Graphs

Pref



Date: 25.SEP.2019 14:11:49

Puw



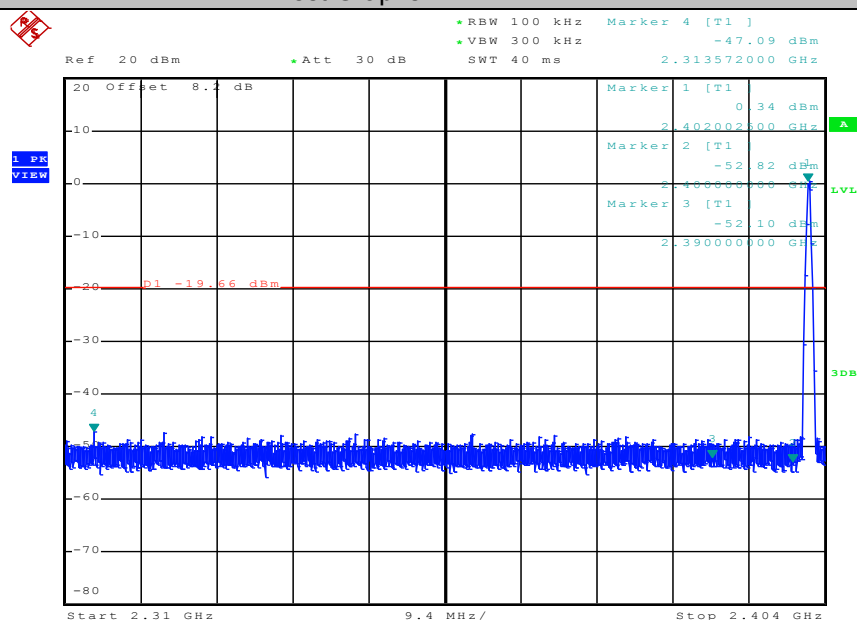
Date: 25.SEP.2019 14:12:03

A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	0.340	Off	-47.092	-19.66	PASS
			0.100	On	-46.886	-19.9	PASS
	HCH	2480	-0.180	Off	-47.538	-20.18	PASS
			-0.680	On	-46.310	-20.68	PASS
$\pi/4$ DQPSK	LCH	2402	-0.480	Off	-47.591	-20.48	PASS
			-0.610	On	-46.464	-20.61	PASS
	HCH	2480	-0.410	Off	-47.347	-20.41	PASS
			-1.140	On	-47.071	-21.14	PASS
8DPSK	LCH	2402	-0.520	Off	-47.334	-20.52	PASS
			-0.990	On	-46.382	-20.99	PASS
	HCH	2480	-1.170	Off	-48.026	-21.17	PASS
			-1.780	On	-47.021	-21.78	PASS

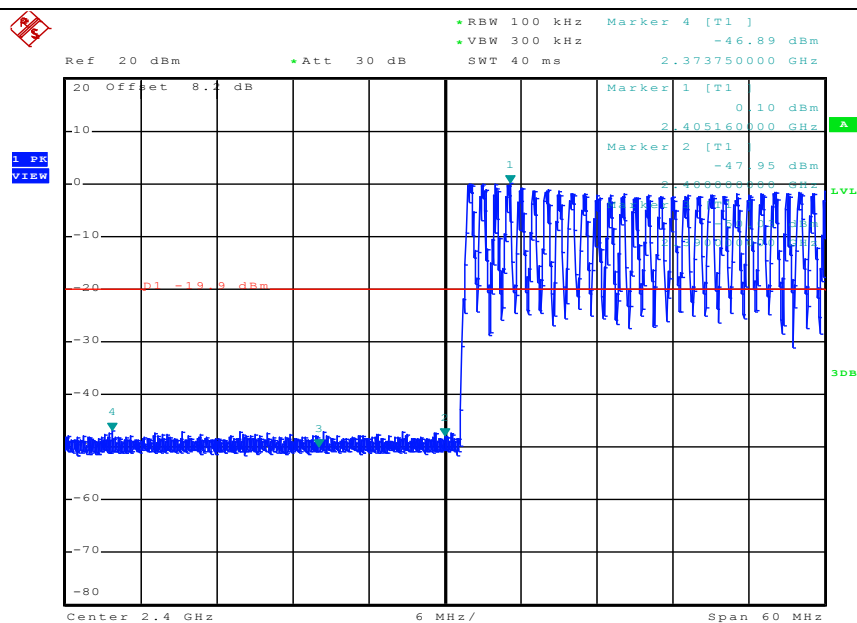
Test Graphs

GFSK/LCH/No Hop



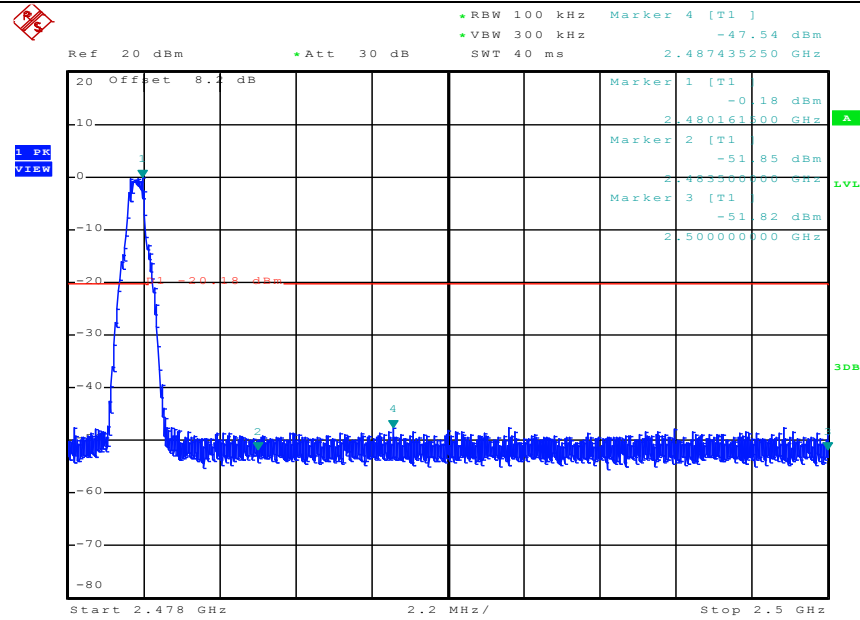
Date: 25.SEP.2019 13:53:52

GFSK/LCH/Hop



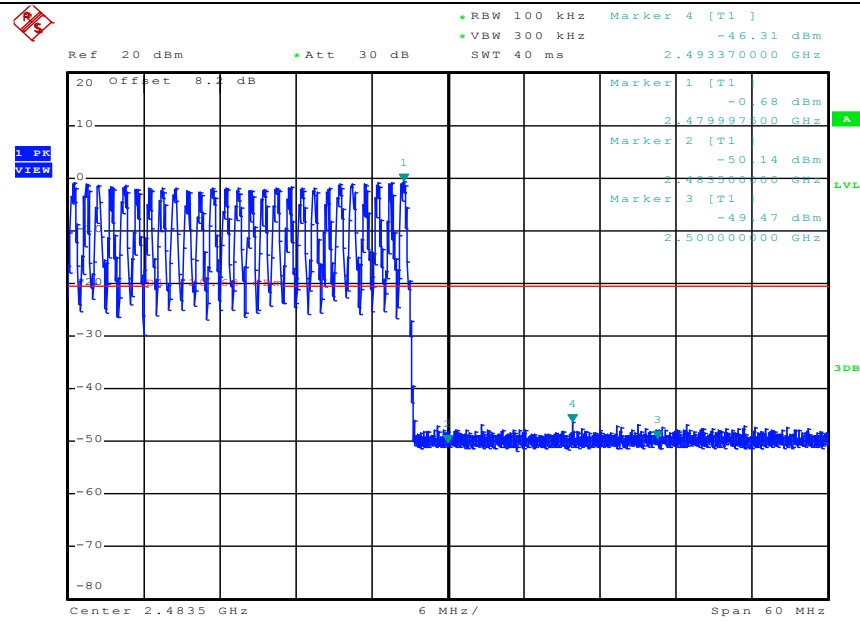
Date: 25.SEP.2019 14:16:32

GFSK/HCH/No Hop



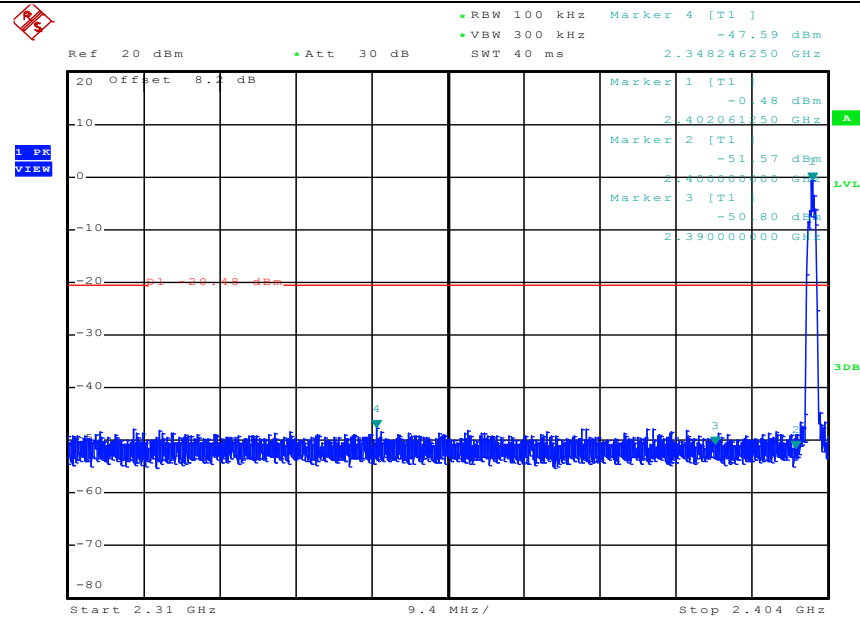
Date: 25.SEP.2019 13:58:02

GFSK/HCH/Hop



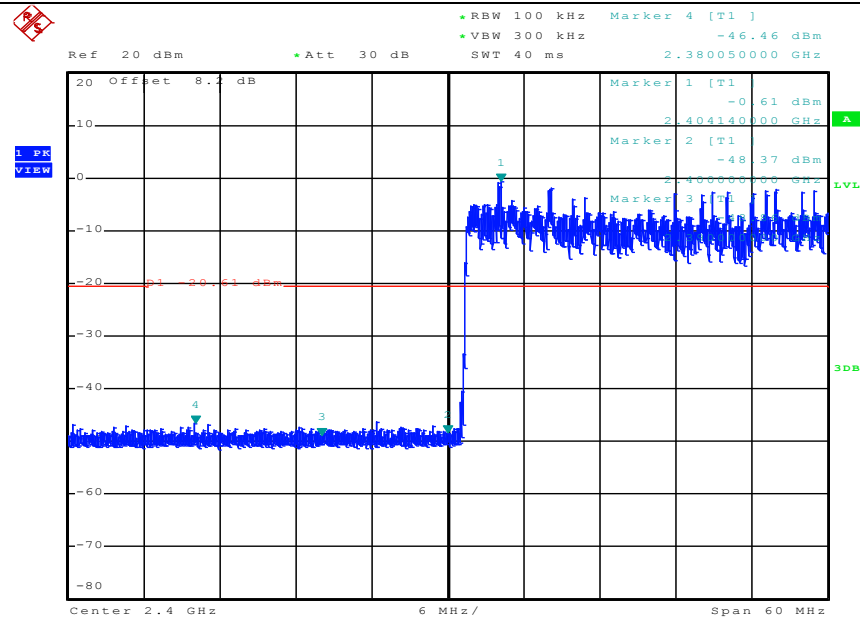
Date: 25.SEP.2019 14:19:37

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



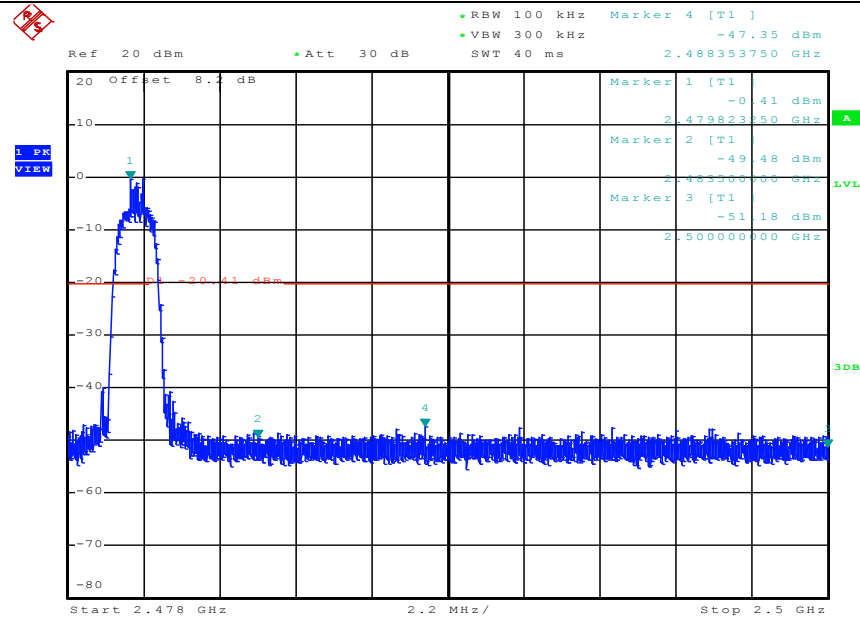
Date: 25.SEP.2019 14:00:37

$\pi/4$ DQPSK/LCH/Hop



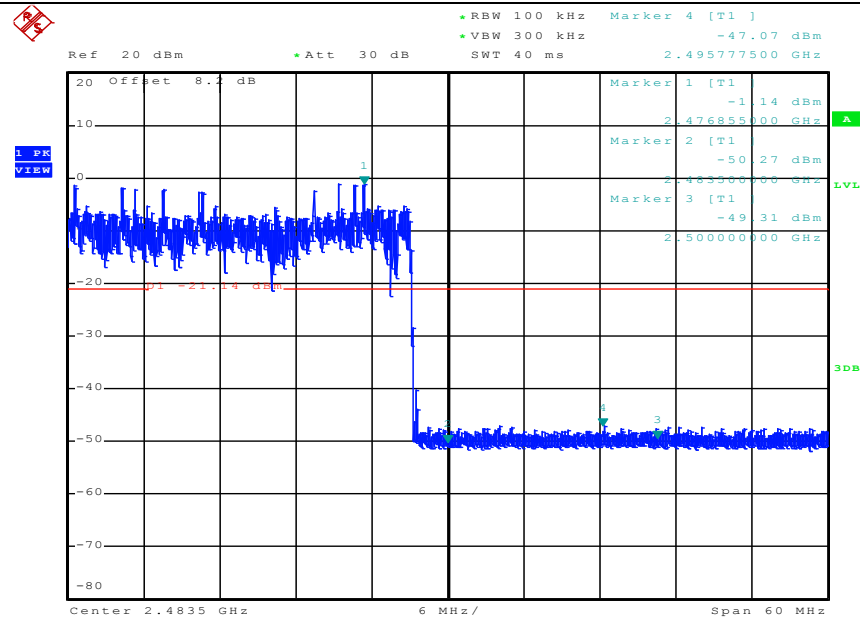
Date: 25.SEP.2019 14:24:23

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



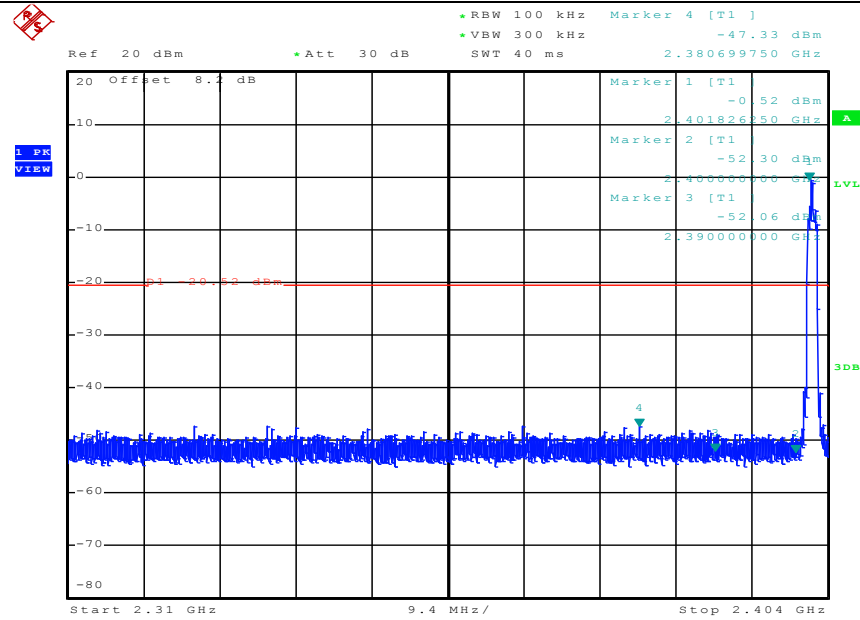
Date: 25.SEP.2019 14:04:51

$\pi/4$ DQPSK/HCH/Hop



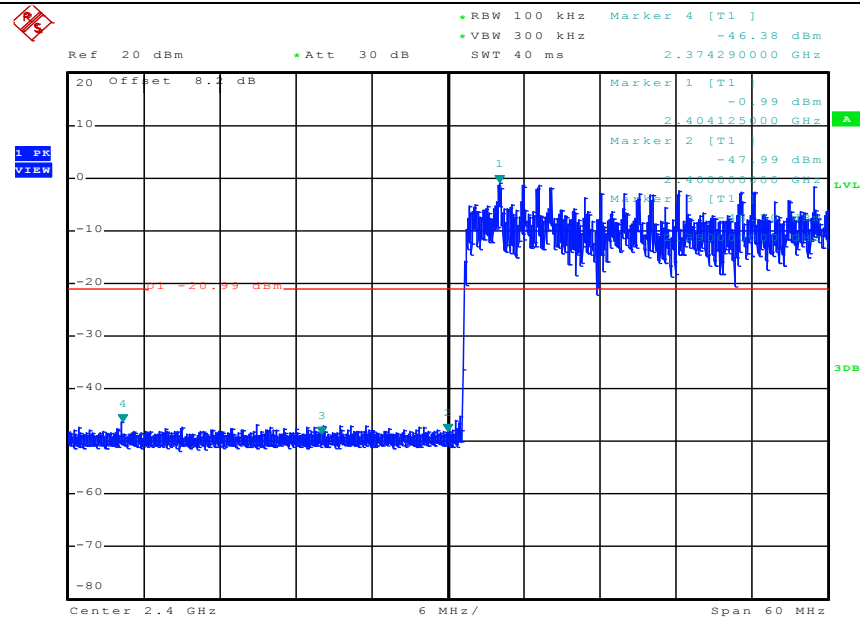
Date: 25.SEP.2019 14:27:39

8DPSK/LCH/No Hop



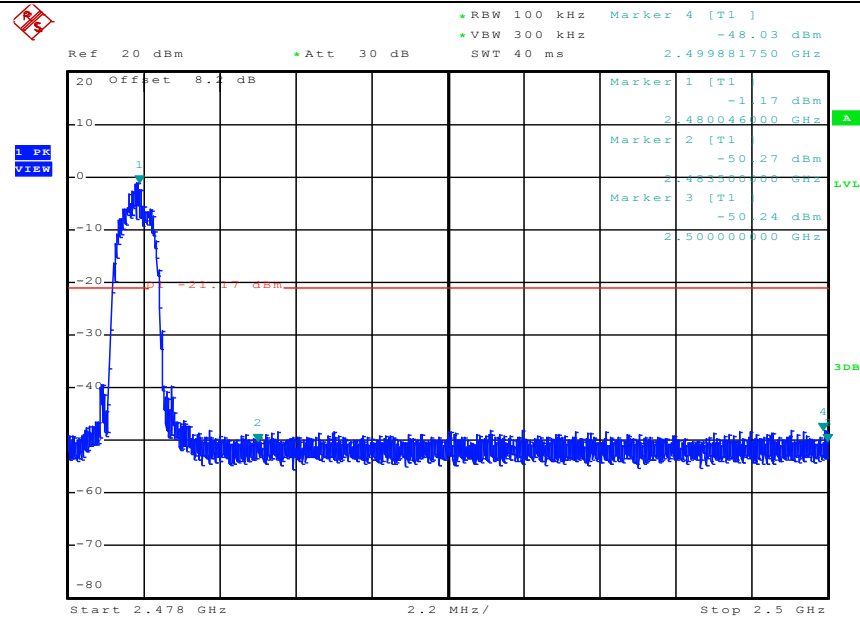
Date: 25.SEP.2019 14:07:28

8DPSK/LCH/Hop



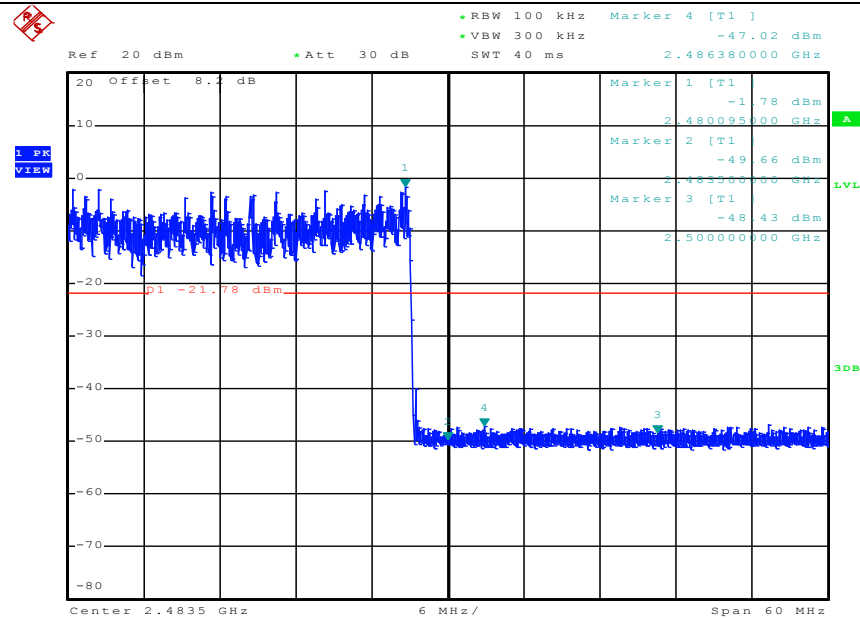
Date: 25.SEP.2019 14:31:50

8DPSK/HCH/No Hop



Date: 25.SEP.2019 14:11:36

8DPSK/HCH/Hop

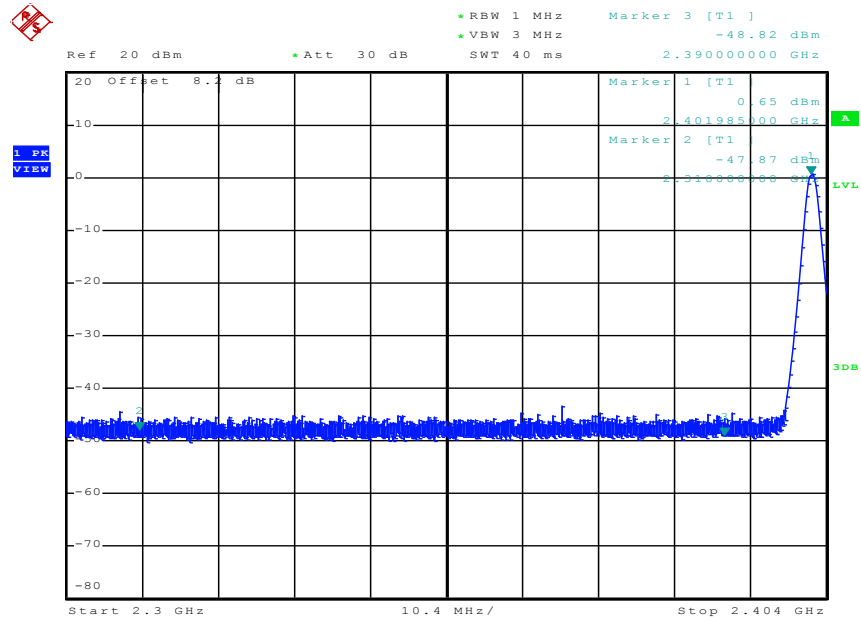


Date: 25.SEP.2019 14:35:12

A.8 Restrict-band band-edge measurements

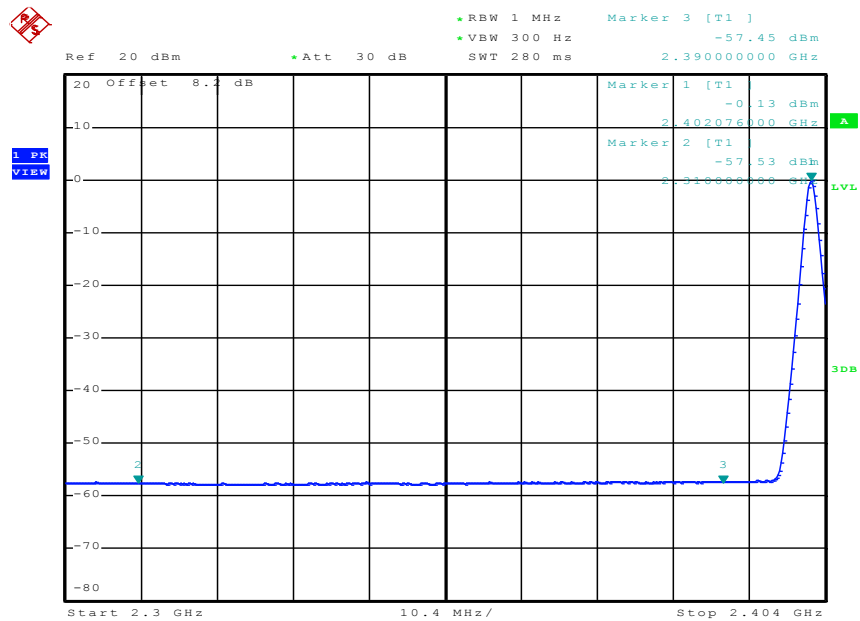
Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-47.87	2.3	0	49.69	PEAK	74	PASS
	Off	2310.0	-57.53	2.3	0	40.03	AV	54	PASS
	Off	2390.0	-48.82	2.3	0	48.74	PEAK	74	PASS
	Off	2390.0	-57.45	2.3	0	40.11	AV	54	PASS
	Off	2483.5	-39.85	2.3	0	57.71	PEAK	74	PASS
	Off	2483.5	-43.09	2.3	0	54.47	AV	54	PASS
	Off	2500.0	-47.74	2.3	0	49.82	PEAK	74	PASS
	Off	2500.0	-57.94	2.3	0	39.62	AV	54	PASS
$\pi/4$ DQPSK	Off	2310.0	-47.84	2.3	0	49.72	PEAK	74	PASS
	Off	2310.0	-57.54	2.3	0	40.02	AV	54	PASS
	Off	2390.0	-46.74	2.3	0	50.82	PEAK	74	PASS
	Off	2390.0	-57.37	2.3	0	40.19	AV	54	PASS
	Off	2483.5	-39.77	2.3	0	57.79	PEAK	74	PASS
	Off	2483.5	-45.64	2.3	0	51.92	AV	54	PASS
	Off	2500.0	-48.11	2.3	0	49.45	PEAK	74	PASS
	Off	2500.0	-57.82	2.3	0	39.74	AV	54	PASS
8DPSK	Off	2310.0	-48.54	2.3	0	49.02	PEAK	74	PASS
	Off	2310.0	-57.51	2.3	0	40.05	AV	54	PASS
	Off	2390.0	-48.33	2.3	0	49.23	PEAK	74	PASS
	Off	2390.0	-57.31	2.3	0	40.25	AV	54	PASS
	Off	2483.5	-39.33	2.3	0	58.23	PEAK	74	PASS
	Off	2483.5	-45.69	2.3	0	51.87	AV	54	PASS
	Off	2500.0	-47.91	2.3	0	49.65	PEAK	74	PASS
	Off	2500.0	-57.80	2.3	0	39.76	AV	54	PASS

Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (Low Channel)



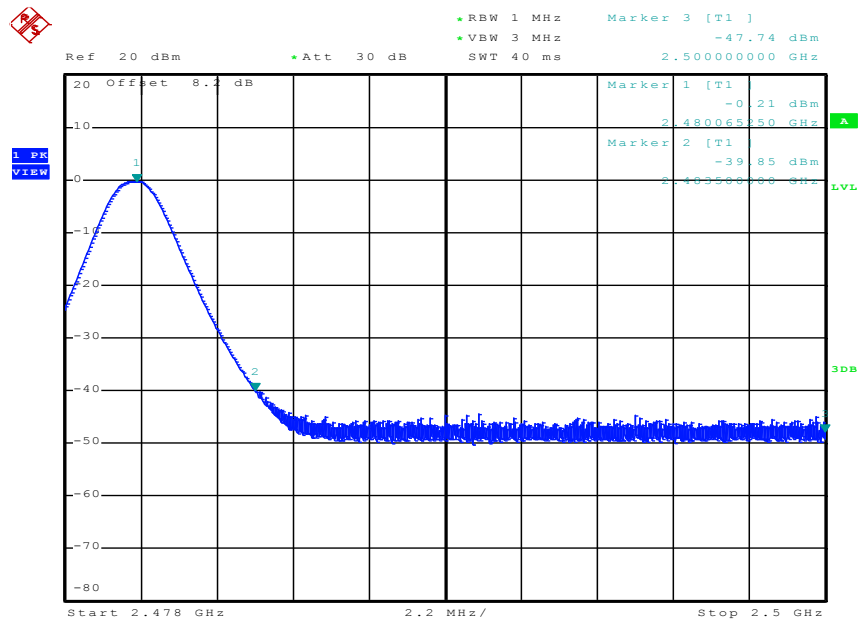
Date: 25.SEP.2019 13:54:38

Restrict-band band-edge measurements_Hopping Off_GFSK_Average (Low Channel)



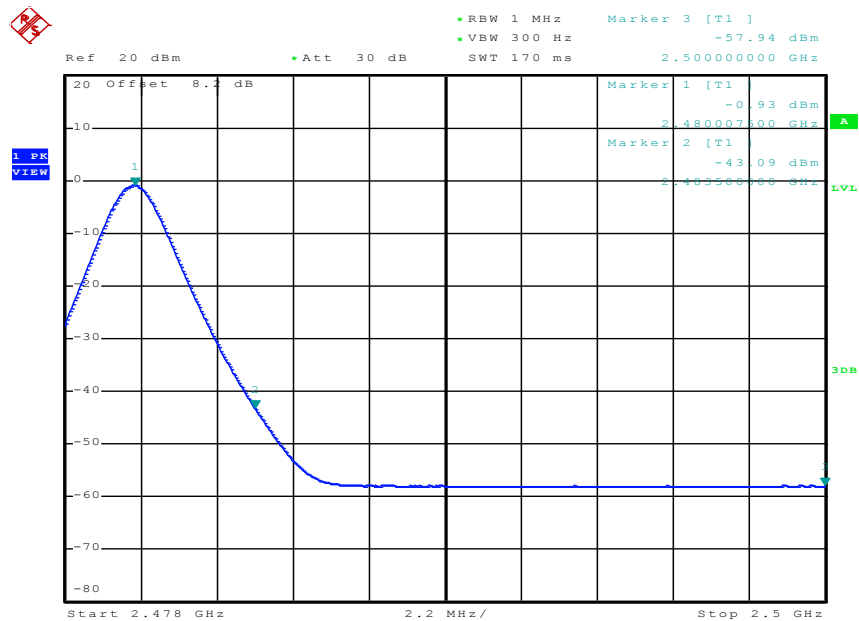
Date: 25.SEP.2019 13:54:52

Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



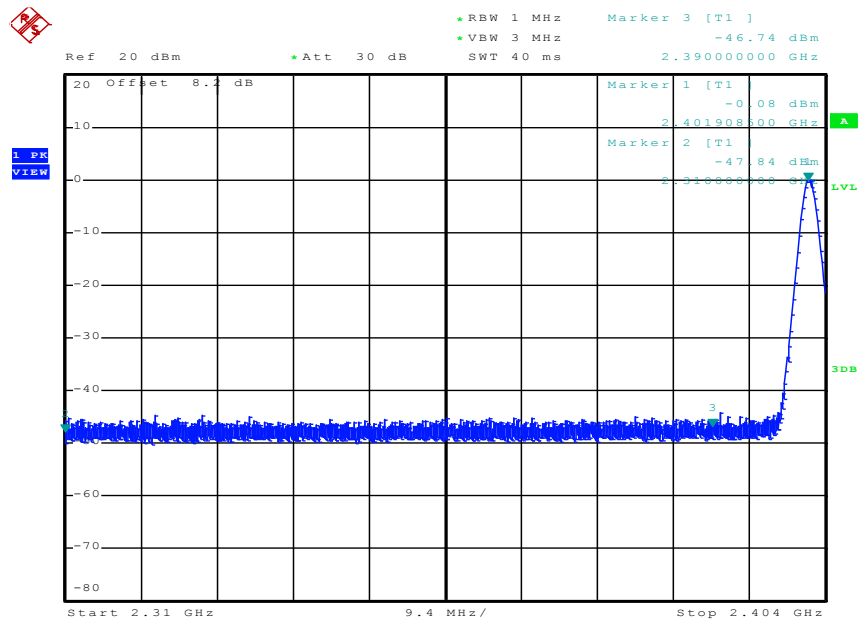
Date: 25.SEP.2019 13:58:48

Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



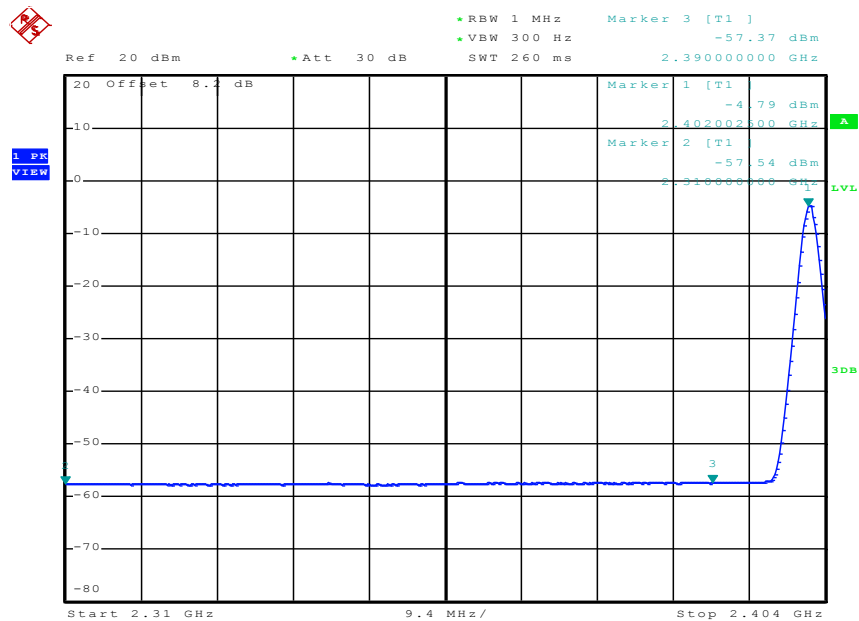
Date: 25.SEP.2019 13:59:02

Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_PEAK (Low Channel)



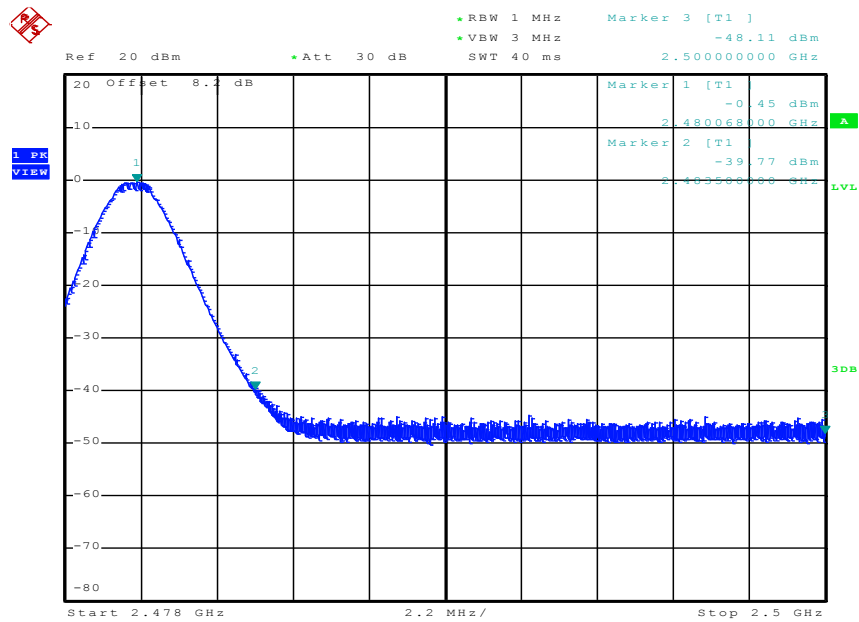
Date: 25.SEP.2019 14:01:23

Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_Average (Low Channel)



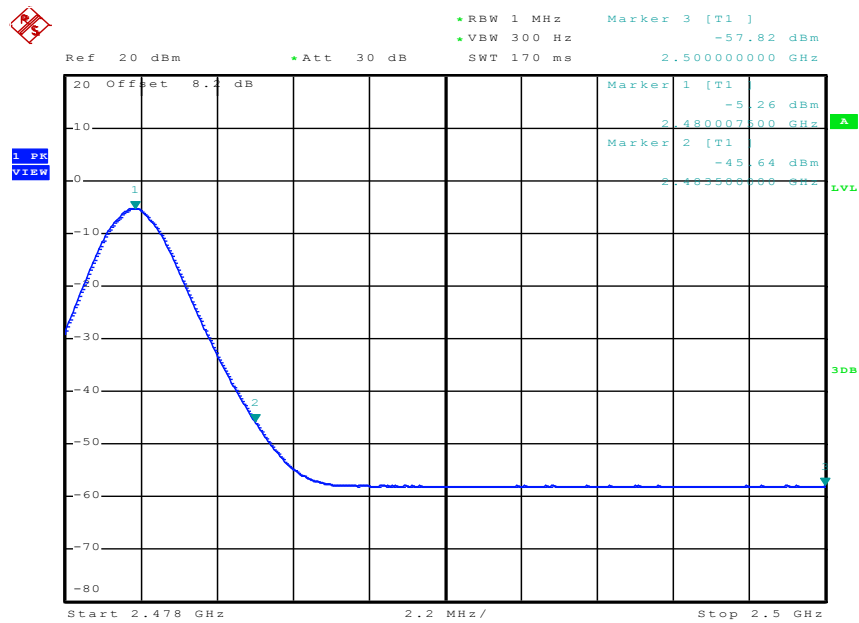
Date: 25.SEP.2019 14:01:36

Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



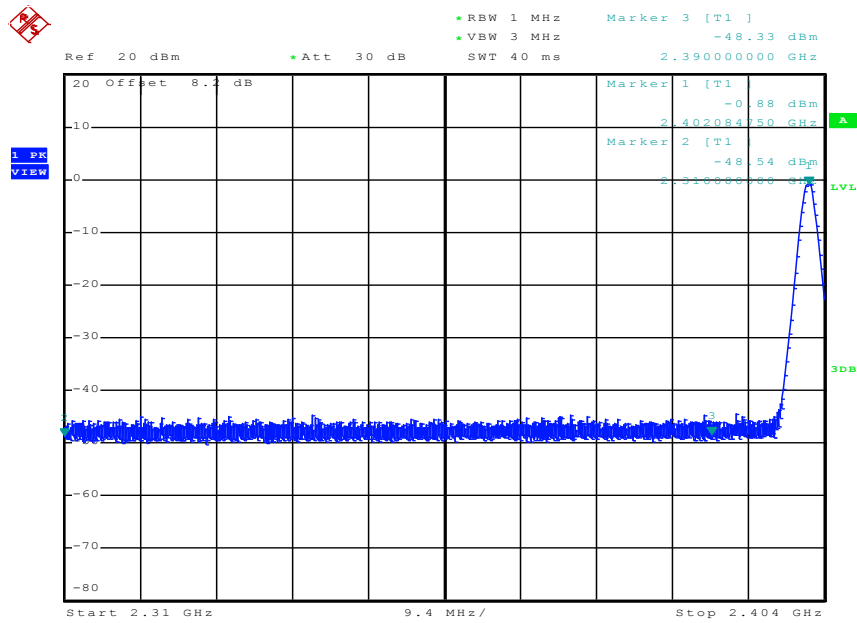
Date: 25.SEP.2019 14:05:37

Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



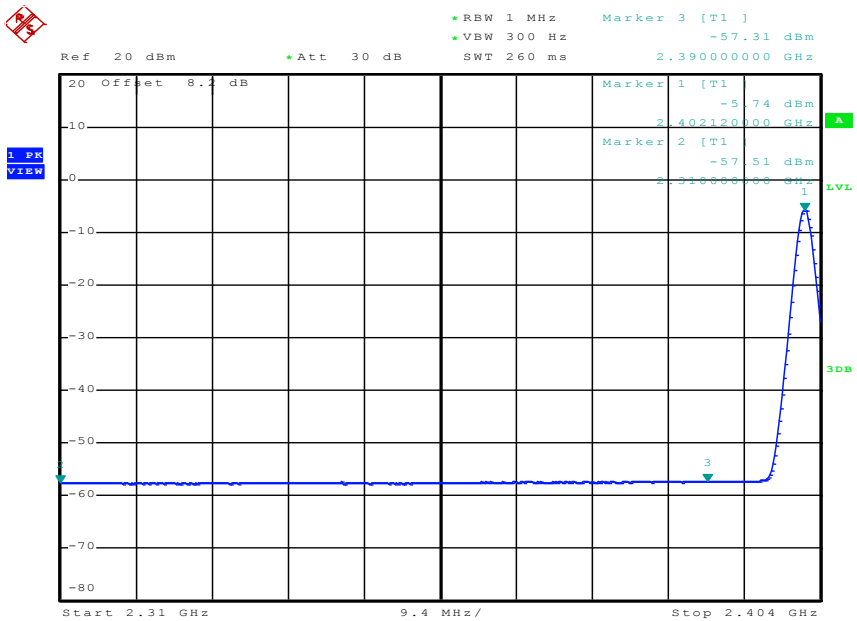
Date: 25.SEP.2019 14:05:51

Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



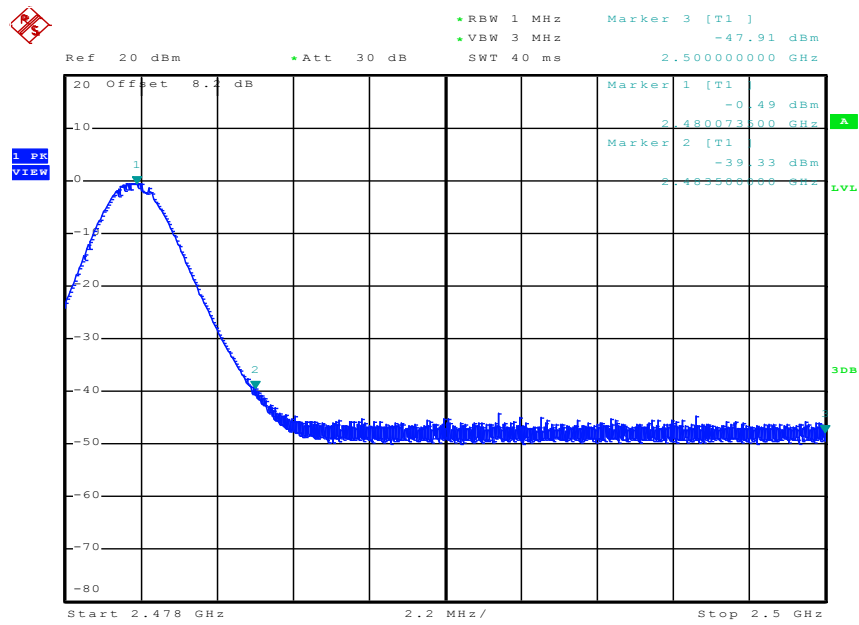
Date: 25.SEP.2019 14:08:14

Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (Low Channel)



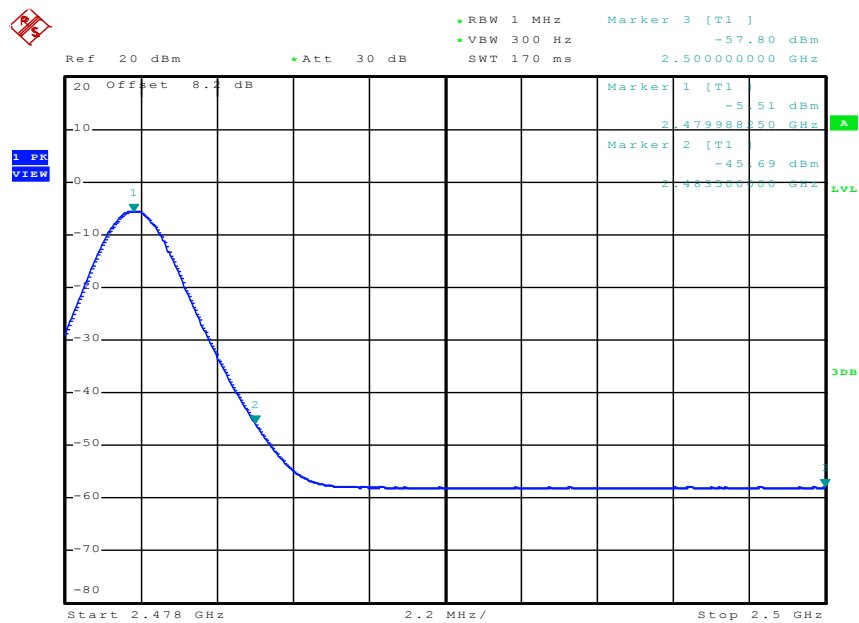
Date: 25.SEP.2019 14:08:27

Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (High Channel)



Date: 25.SEP.2019 14:12:22

Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (High Channel)



Date: 25.SEP.2019 14:12:36