

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112919\
 Data File : VN059447.D
 Acq On : 29 Nov 2019 14:45
 Operator : JC/SP
 Sample : K6024-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 29 22:27:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112719W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 27 16:56:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	351656	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	540881	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	471483	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	178135	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	202965	49.27	ug/l	0.00
Spiked Amount			Recovery	=	98.54%	
35) Dibromofluoromethane	7.57	113	162779	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	
50) Toluene-d8	10.08	98	651403	49.62	ug/l	0.00
Spiked Amount			Recovery	=	99.24%	
62) 4-Bromofluorobenzene	12.40	95	207660	45.43	ug/l	0.00
Spiked Amount			Recovery	=	90.86%	

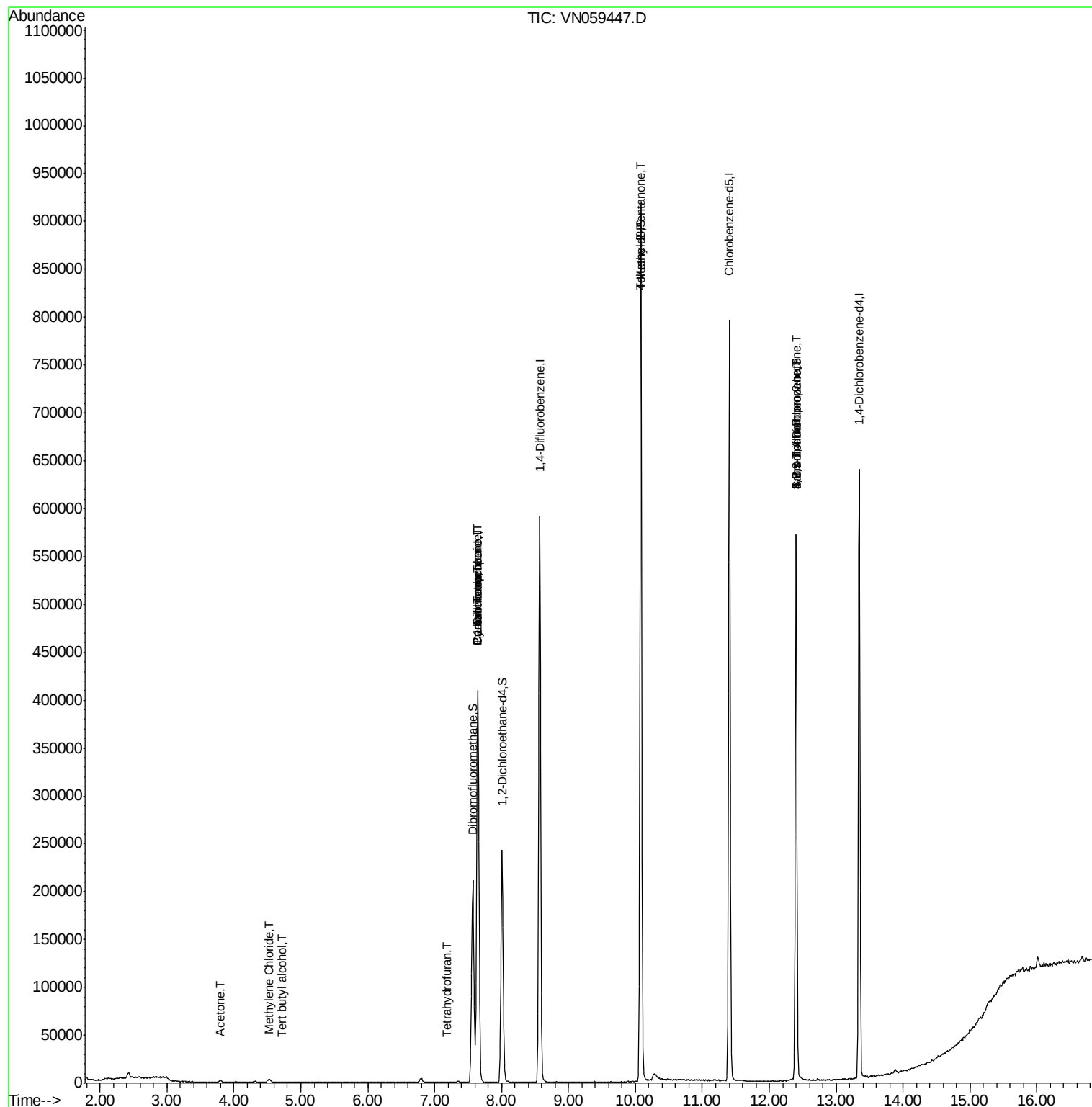
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	294	0.412	ug/l #	85
16) Acetone	3.79	43	3396	1.731	ug/l #	86
20) Methylene Chloride	4.53	84	1847	0.463	ug/l	92
29) Tetrahydrofuran	7.19	42	647	0.360	ug/l #	33
31) Cyclohexane	7.64	56	6329	0.912	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	25621	4.926	ug/l #	49
38) Carbon Tetrachloride	7.65	117	31672	6.452	ug/l #	16
51) 4-Methyl-2-Pentanone	10.08	43	2520	0.520	ug/l #	1
71) Bromoform	12.40	173	1025	0.389	ug/l #	1
74) N-amyl acetate	12.07	43	167	Below Cal	#	42
76) 1,2,3-Trichloropropane	12.40	75	100396	24.913	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	100396	64.013	ug/l #	17
92) 1,2-Dibromo-3-Chloropropan	14.25	75	181	Below Cal	#	1
95) Naphthalene	15.13	128	1196	Below Cal	#	70
96) 1,2,3-Trichlorobenzene	15.30	180	382	Below Cal	#	10

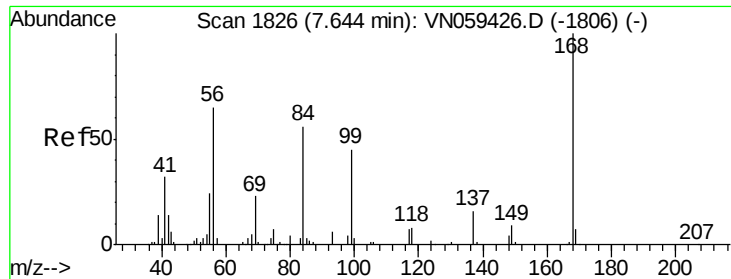
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059447.D

Acq: 29 Nov 2019 14:45

Instrument :

MSVOA_N

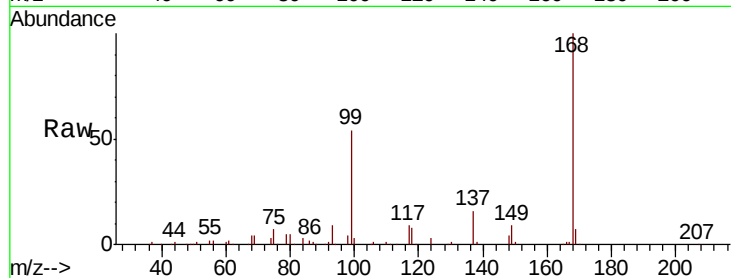
ClientSampleId :

Tot Ion:168 Resp: 351656

Ion Ratio Lower Upper

168 100

99 54.3 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.64

150000

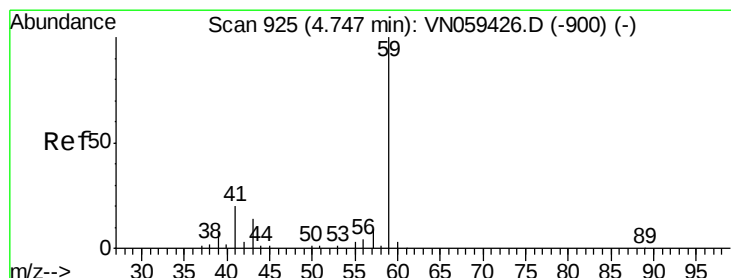
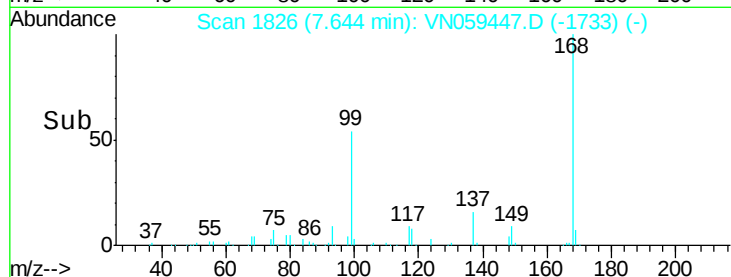
100000

50000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.412 ug/l

RT: 4.73 min Scan# 920

Delta R.T. -0.02 min

Lab File: VN059447.D

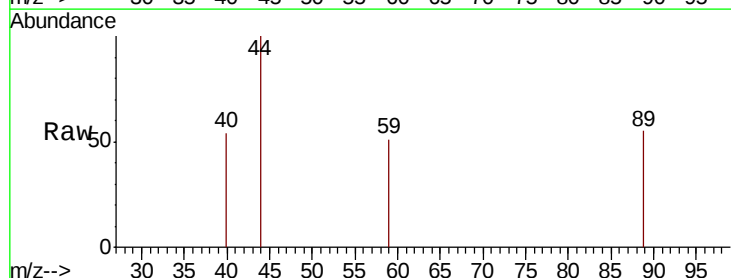
Acq: 29 Nov 2019 14:45

Tgt Ion: 59 Resp: 294

Ion Ratio Lower Upper

59 100

57 0.0 3.8 5.8#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.73

250

200

150

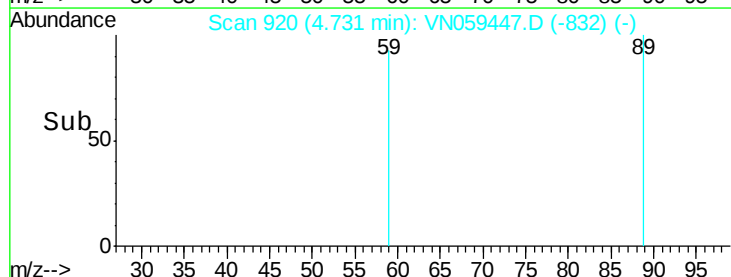
100

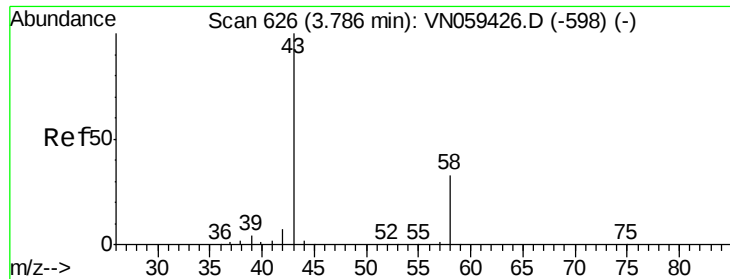
50

0

4.72 4.74 4.76

Time-->





#16

Acetone

Concen: 1.731 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN059447.D

Acq: 29 Nov 2019 14:45

Instrument :

MSVOA_N

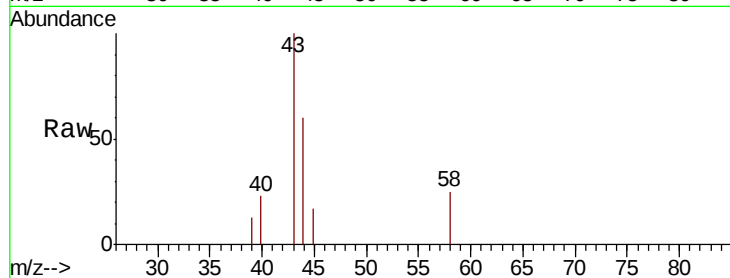
ClientSampled :

Tot Ion: 43 Resp: 3396

Ion Ratio Lower Upper

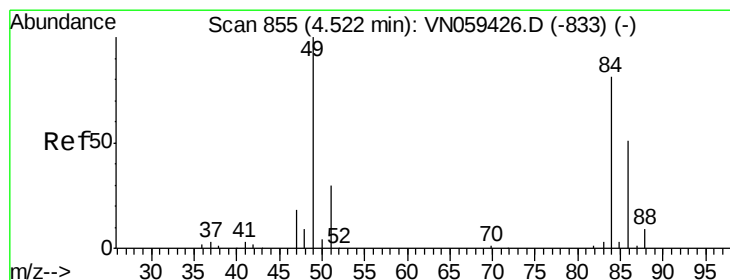
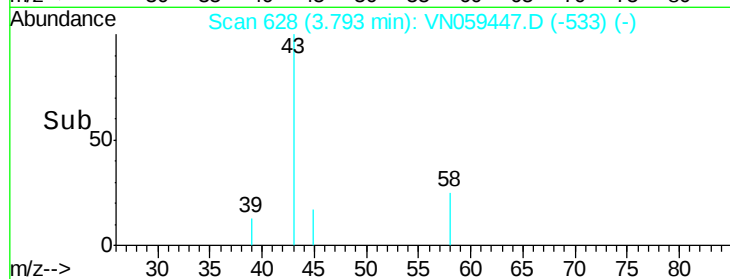
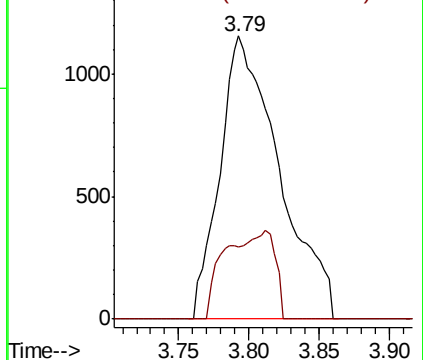
43 100

58 25.4 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#20

Methylene Chloride

Concen: 0.463 ug/l

RT: 4.53 min Scan# 856

Delta R.T. 0.00 min

Lab File: VN059447.D

Acq: 29 Nov 2019 14:45

Tgt Ion: 84 Resp: 1847

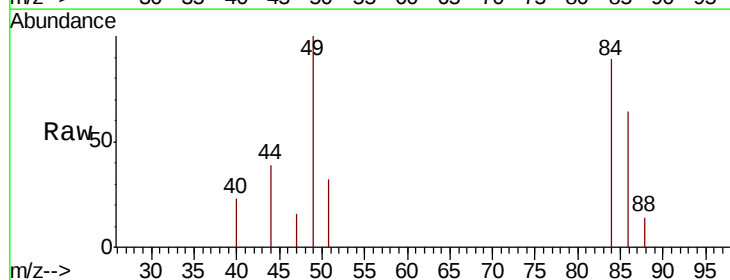
Ion Ratio Lower Upper

84 100

49 112.9 98.6 148.0

51 36.7 29.4 44.0

86 71.8 50.6 76.0

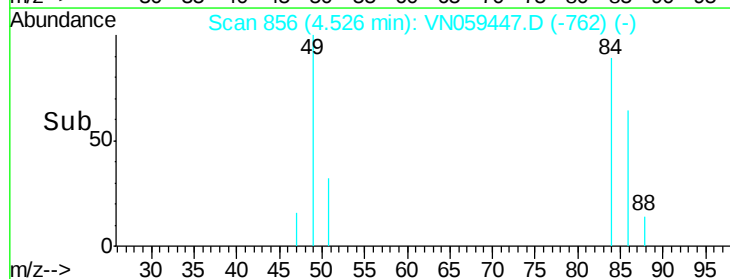
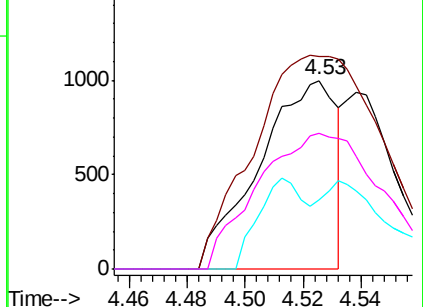


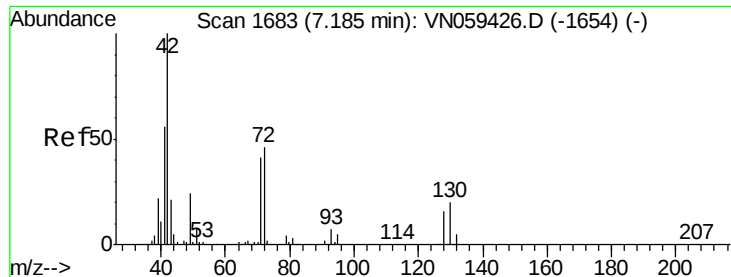
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0





#29

Tetrahydrofuran

Concen: 0.360 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.01 min

Lab File: VN059447.D

Acq: 29 Nov 2019 14:45

Instrument :

MSVOA_N

ClientSampleId :

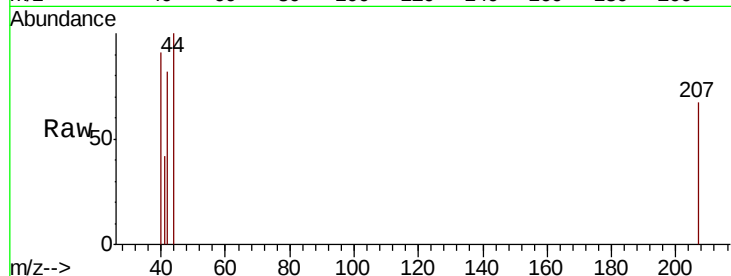
Tot Ion: 42 Resp: 647

Ion Ratio Lower Upper

42 100

72 0.0 34.6 51.8#

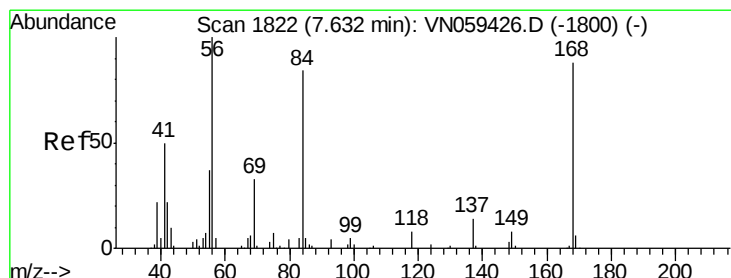
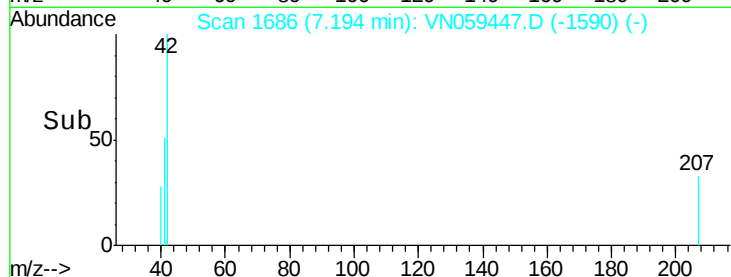
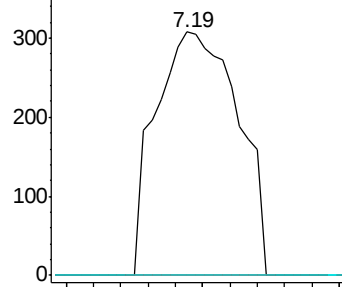
71 0.0 33.0 49.6#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.912 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN059447.D

Acq: 29 Nov 2019 14:45

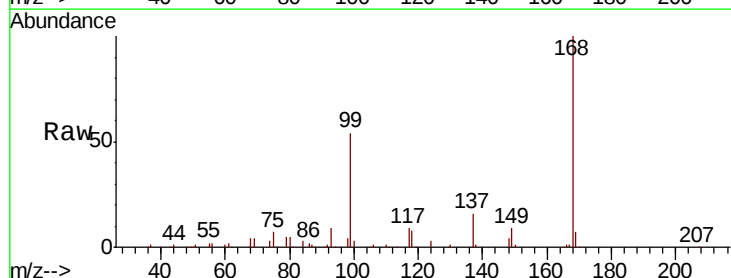
Tgt Ion: 56 Resp: 6329

Ion Ratio Lower Upper

56 100

69 185.9 26.4 39.6#

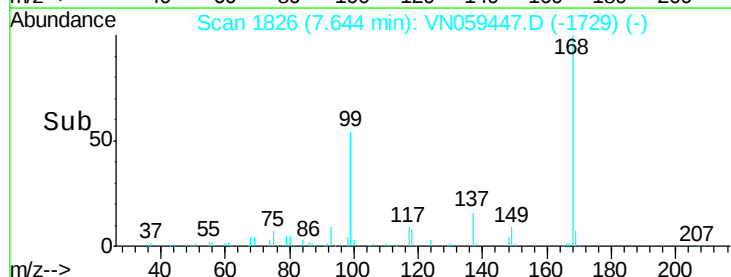
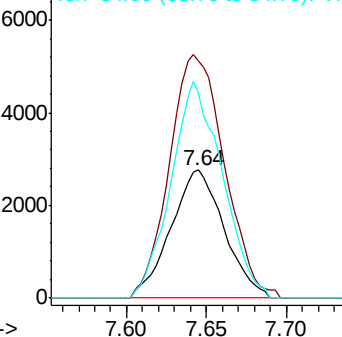
84 160.5 67.0 100.6#

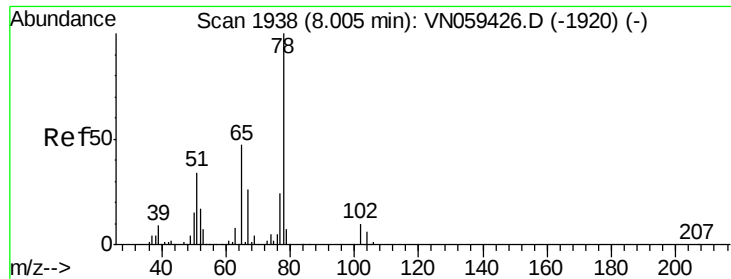


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 49.272 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059447.D

Acq: 29 Nov 2019 14:45

Instrument :

MSVOA_N

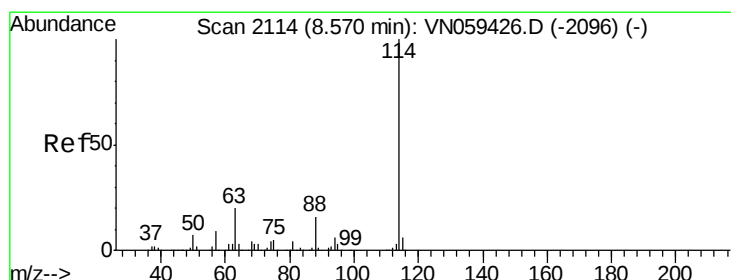
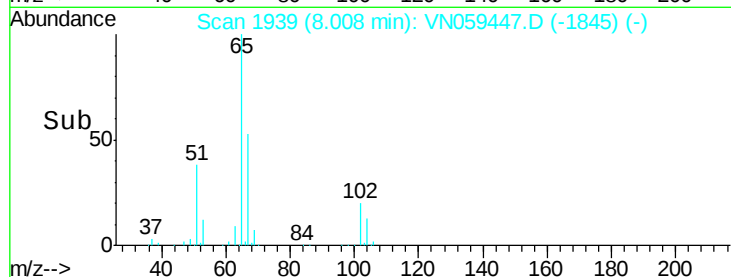
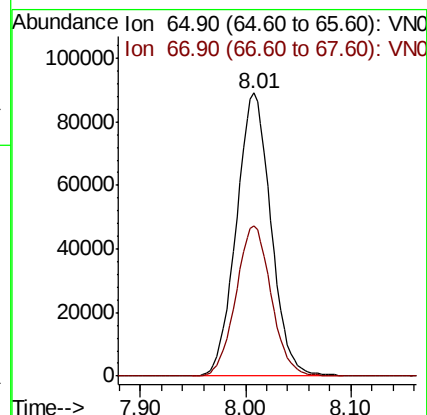
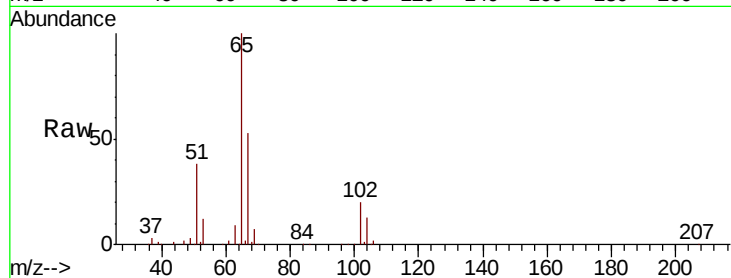
ClientSampleId :

Tot Ion: 65 Resp: 202965

Ion Ratio Lower Upper

65 100

67 54.0 0.0 111.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VN059447.D

Acq: 29 Nov 2019 14:45

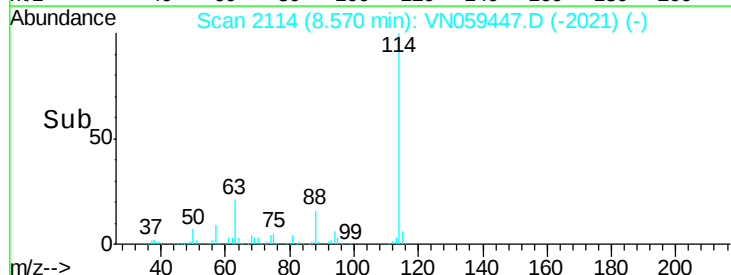
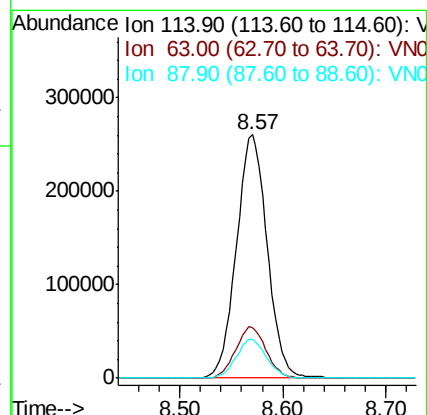
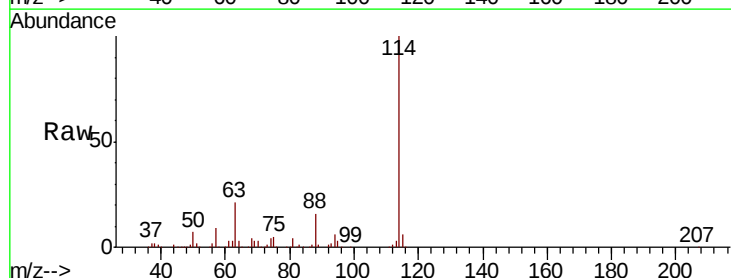
Tgt Ion: 114 Resp: 540881

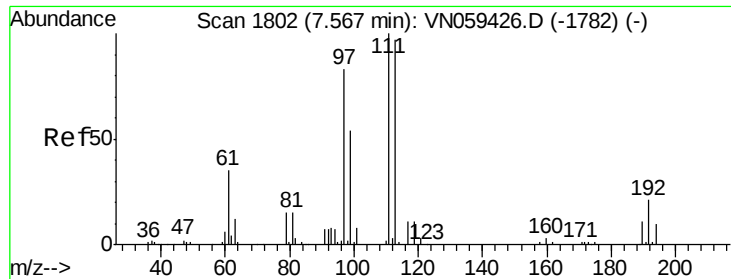
Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.4

88 16.0 0.0 32.2

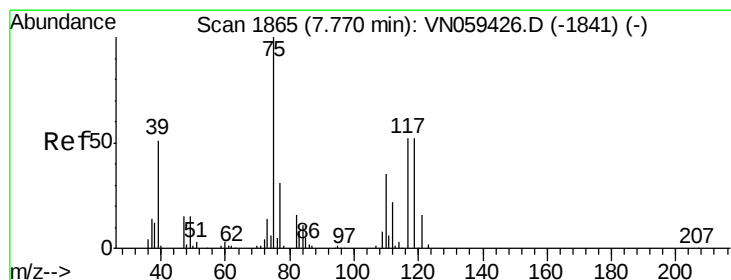
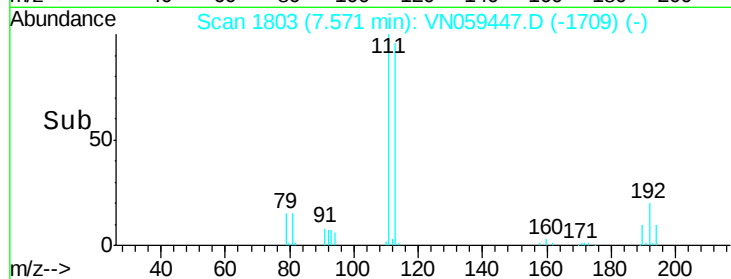
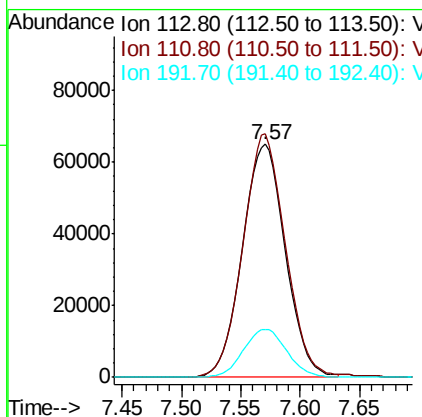
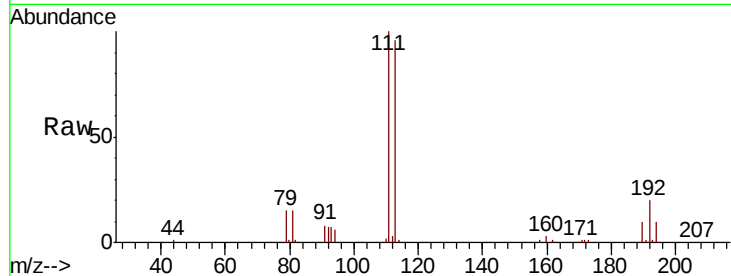




#35
 Dibromofluoromethane
 Concen: 49.408 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059447.D
 Acq: 29 Nov 2019 14:45

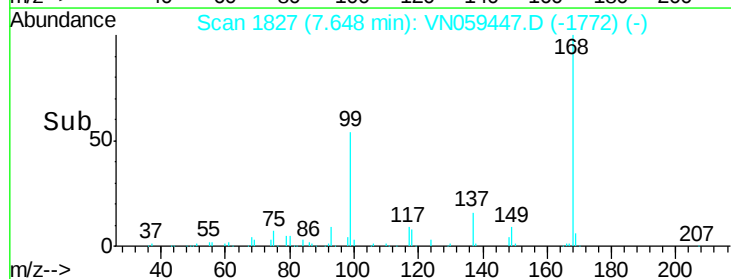
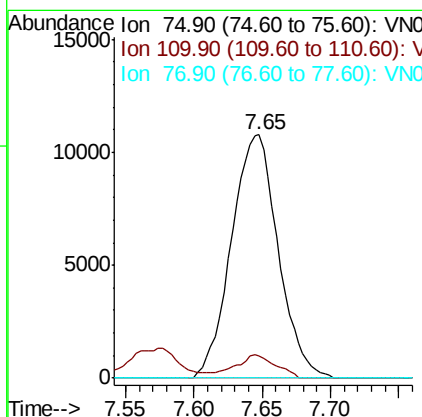
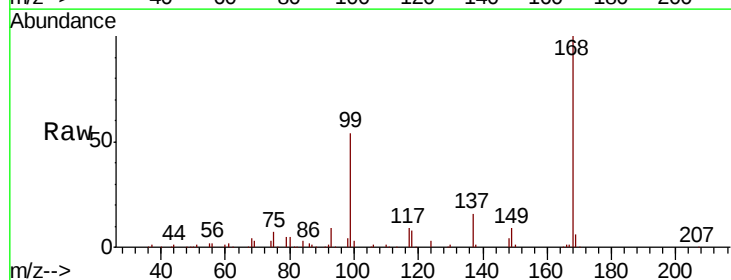
Instrument :
 MSVOA_N
 ClientSampleId :

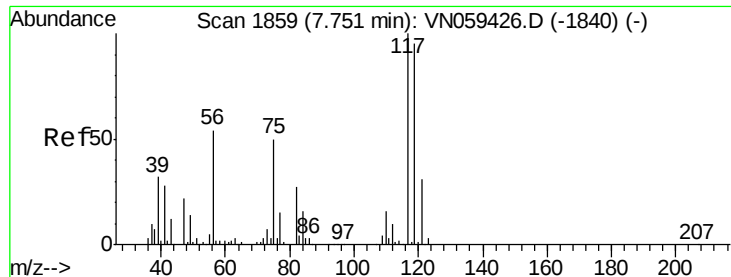
Tot Ion:113 Resp: 162779
 Ion Ratio Lower Upper
 113 100
 111 103.5 81.9 122.9
 192 20.8 16.6 24.8



#36
 1,1-Dichloropropene
 Concen: 4.926 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.12 min
 Lab File: VN059447.D
 Acq: 29 Nov 2019 14:45

Tgt Ion: 75 Resp: 25621
 Ion Ratio Lower Upper
 75 100
 110 8.3 17.3 52.0#
 77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 6.452 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.10 min

Lab File: VN059447.D

Acq: 29 Nov 2019 14:45

Instrument :

MSVOA_N

ClientSampleId :

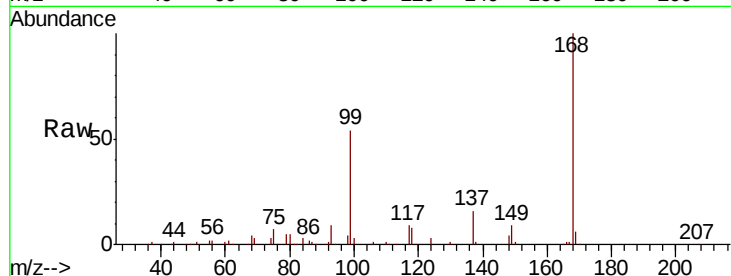
Tot Ion:117 Resp: 31672

Ion Ratio Lower Upper

117 100

119 4.9 75.9 113.9#

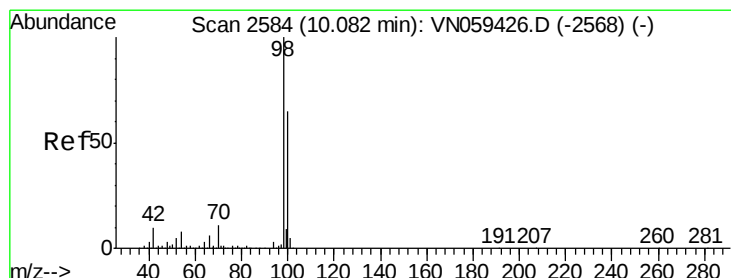
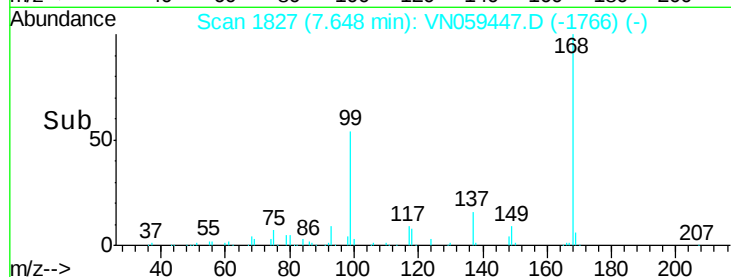
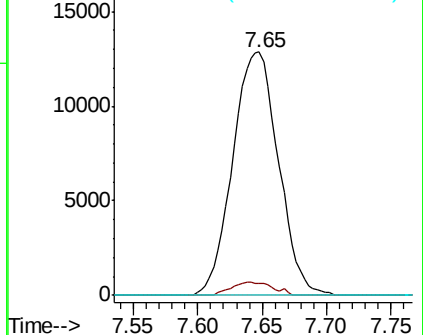
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 49.622 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059447.D

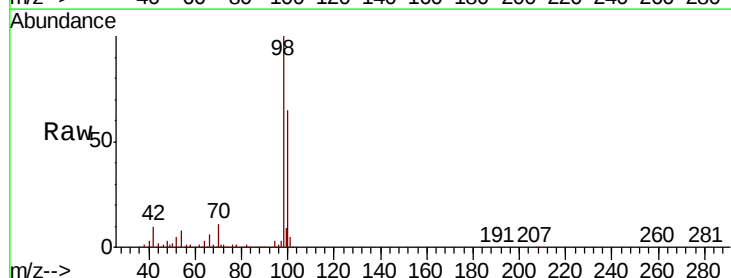
Acq: 29 Nov 2019 14:45

Tgt Ion: 98 Resp: 651403

Ion Ratio Lower Upper

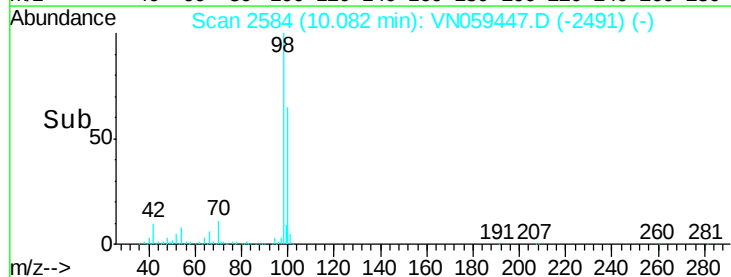
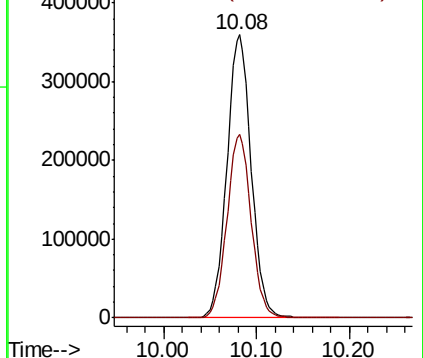
98 100

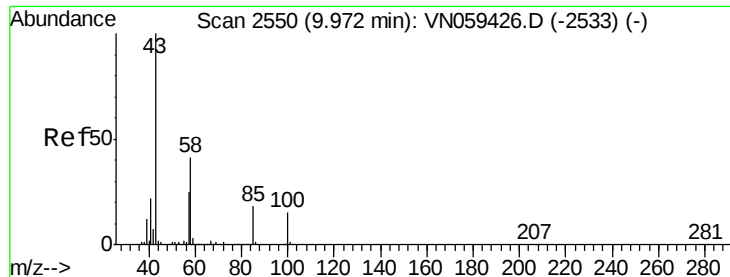
100 64.6 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#51

4-Methyl-2-Pentanone

Concen: 0.520 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.11 min

Lab File: VN059447.D

Acq: 29 Nov 2019 14:45

Instrument :

MSVOA_N

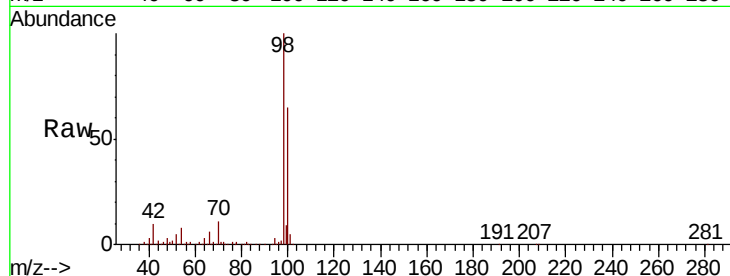
ClientSampleId :

Tot Ion: 43 Resp: 2520

Ion Ratio Lower Upper

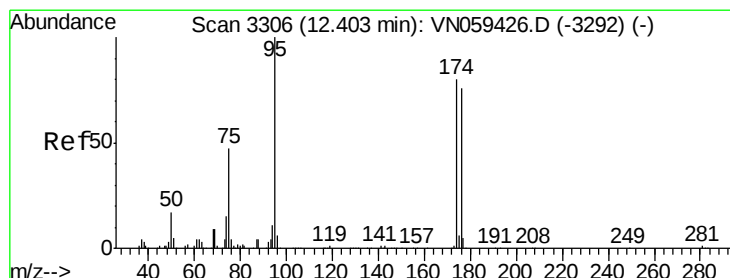
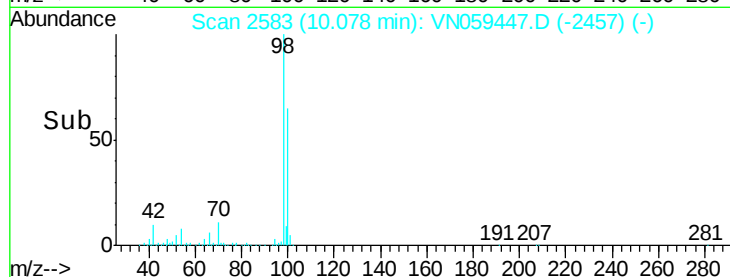
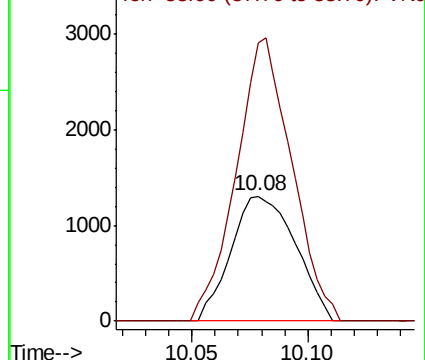
43 100

58 195.6 32.5 48.7#



Abundance Ion 43.00 (42.70 to 43.70): VN059447.D (-2457) (-)

Ion 58.00 (57.70 to 58.70): VN059447.D (-2457) (-)



#62

4-Bromofluorobenzene

Concen: 45.432 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059447.D

Acq: 29 Nov 2019 14:45

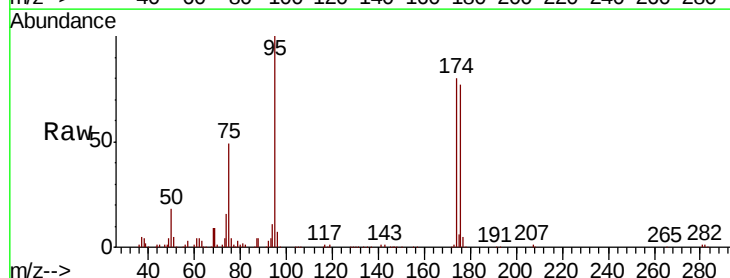
Tgt Ion: 95 Resp: 207660

Ion Ratio Lower Upper

95 100

174 81.0 0.0 158.0

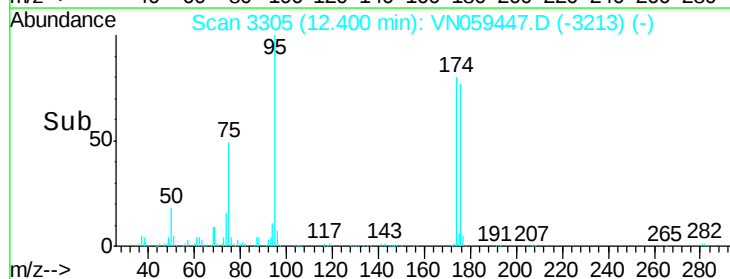
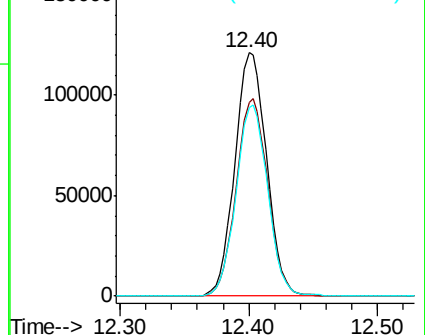
176 78.2 0.0 153.0

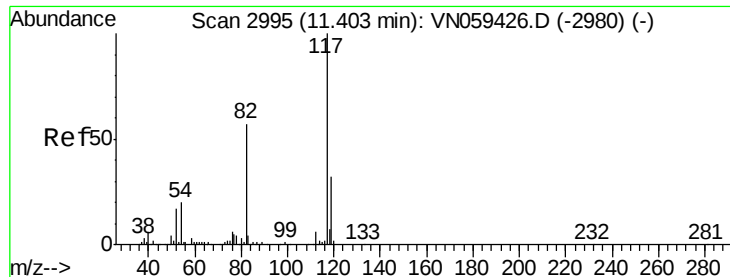


Abundance Ion 94.90 (94.60 to 95.60): VN059447.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN059447.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN059447.D (-3213) (-)





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. 0.00 min

Lab File: VN059447.D

Acq: 29 Nov 2019 14:45

Instrument :

MSVOA_N

ClientSampleId :

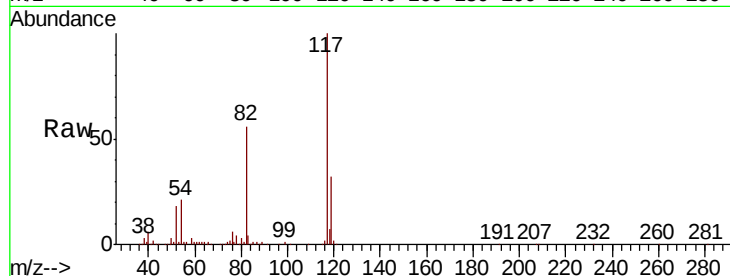
Tot Ion:117 Resp: 471483

Ion Ratio Lower Upper

117 100

82 56.4 45.4 68.0

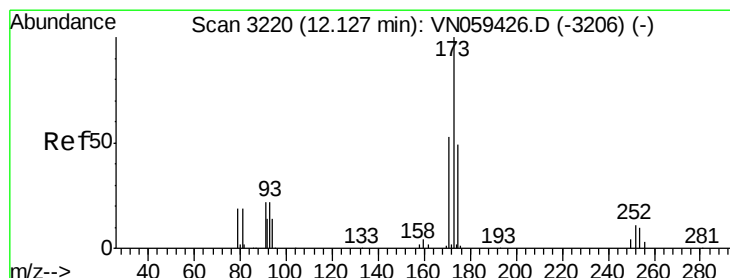
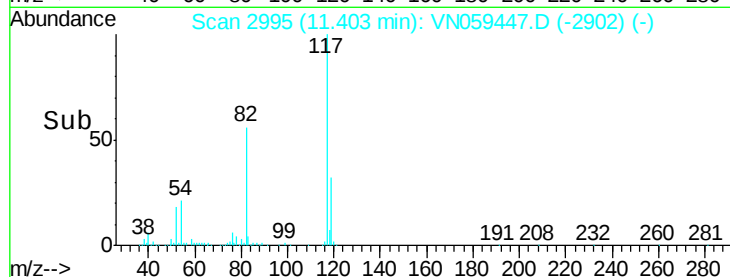
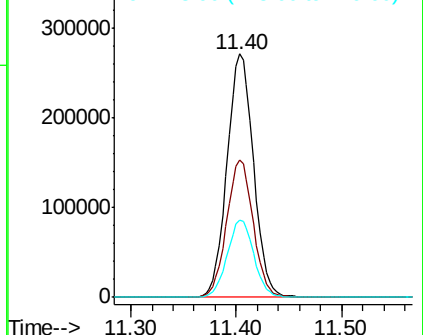
119 31.9 25.6 38.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 0.389 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN059447.D

Acq: 29 Nov 2019 14:45

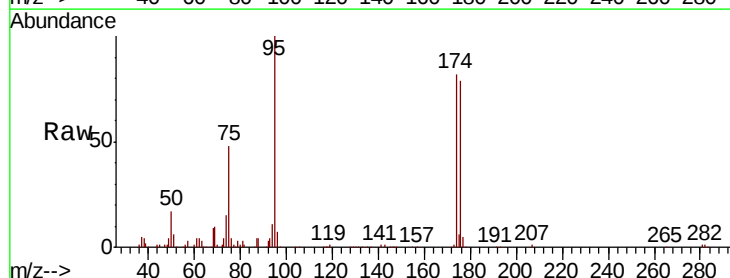
Tgt Ion:173 Resp: 1025

Ion Ratio Lower Upper

173 100

175 990.7 24.1 72.3#

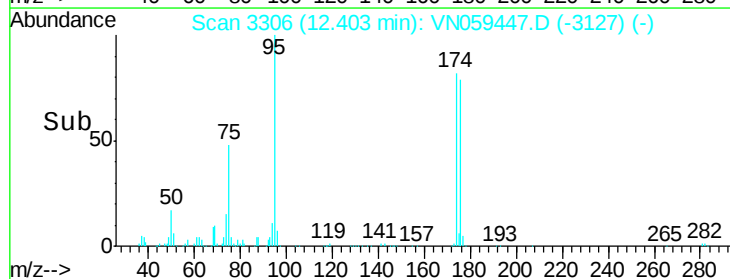
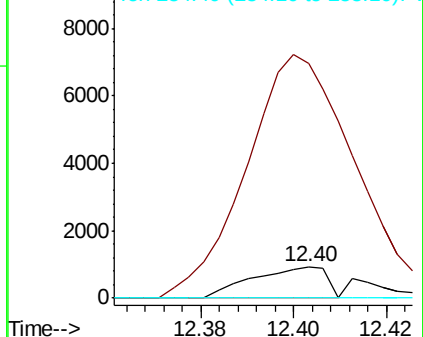
254 0.0 0.0 0.0

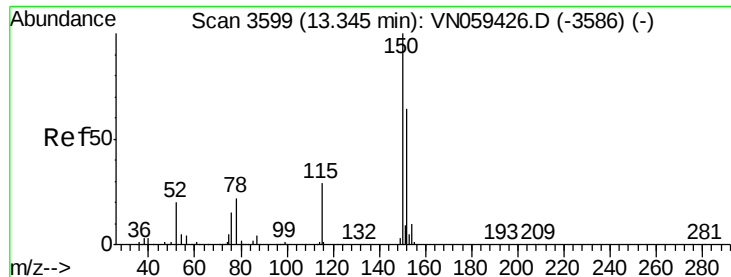


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

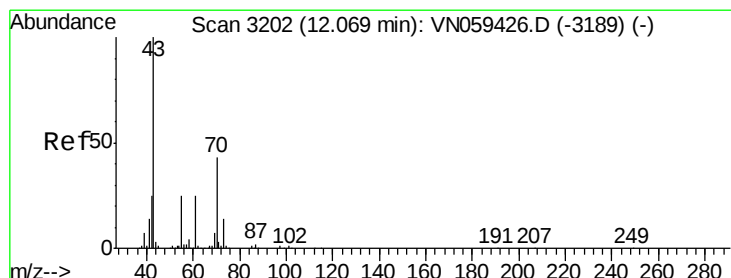
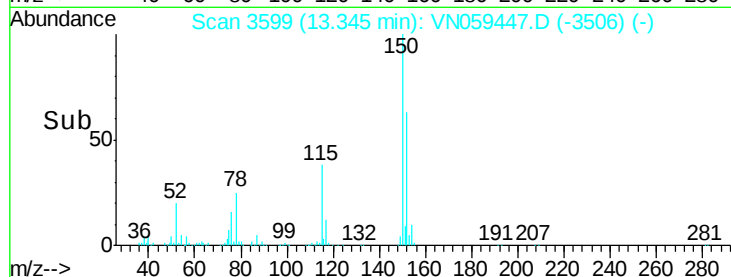
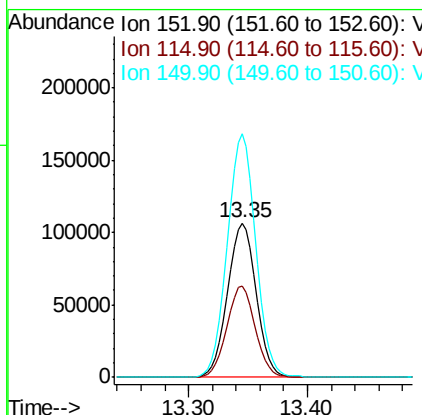
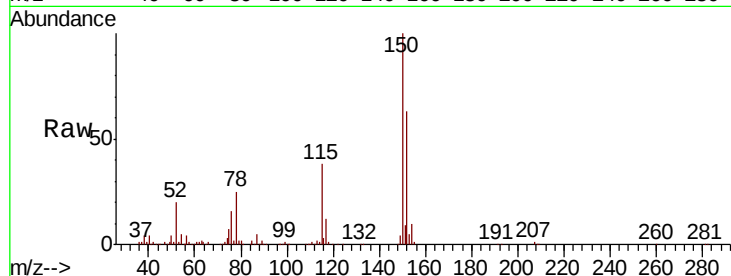




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.35 min Scan# 3599
 Delta R.T. 0.00 min
 Lab File: VN059447.D
 Acq: 29 Nov 2019 14:45

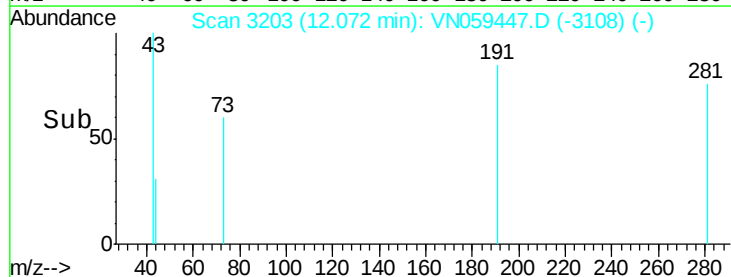
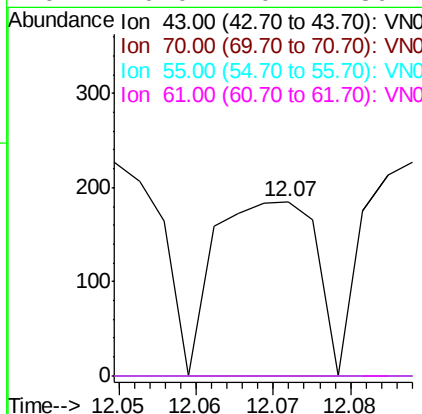
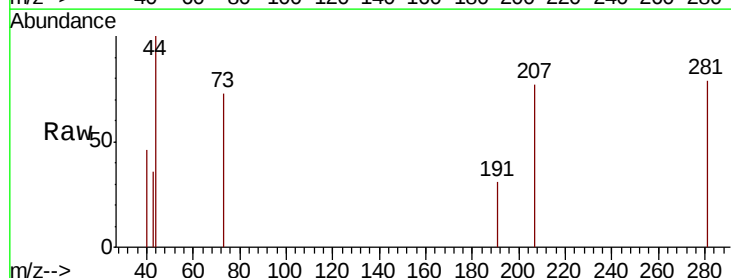
Instrument :
 MSVOA_N
 ClientSampleId :

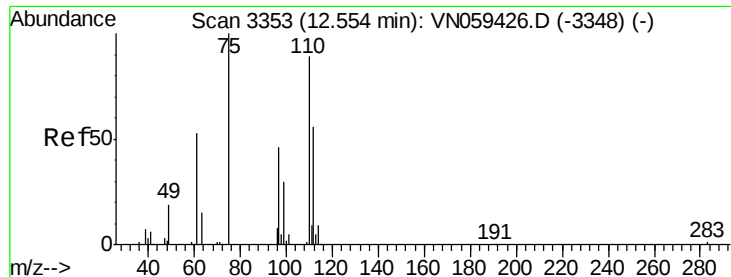
Tot Ion:152 Resp: 178135
 Ion Ratio Lower Upper
 152 100
 115 58.8 29.5 88.6
 150 156.8 0.0 347.2



#74
 N-ethyl acetate
 Concen: Below Cal
 RT: 12.07 min Scan# 3203
 Delta R.T. 0.00 min
 Lab File: VN059447.D
 Acq: 29 Nov 2019 14:45

Tgt Ion: 43 Resp: 167
 Ion Ratio Lower Upper
 43 100
 70 0.0 34.6 52.0#
 55 0.0 20.5 30.7#
 61 0.0 20.2 30.4#





#76

1,2,3-Trichloropropane

Concen: 24.913 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059447.D

Acq: 29 Nov 2019 14:45

Instrument :

MSVOA_N

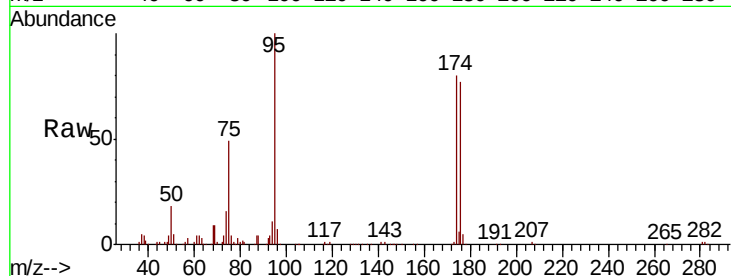
ClientSampleId :

Tot Ion: 75 Resp: 100396

Ion Ratio Lower Upper

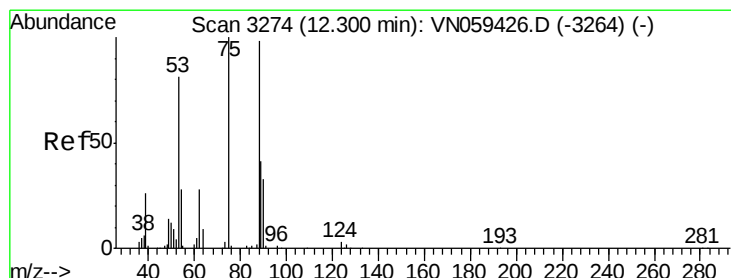
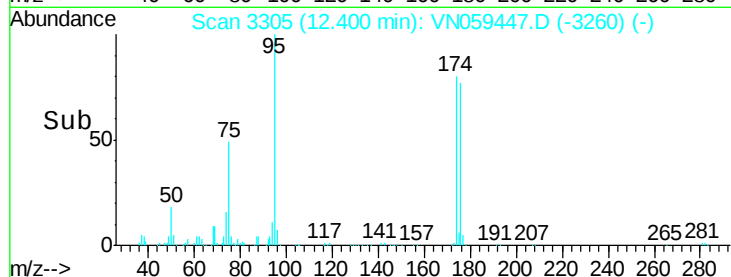
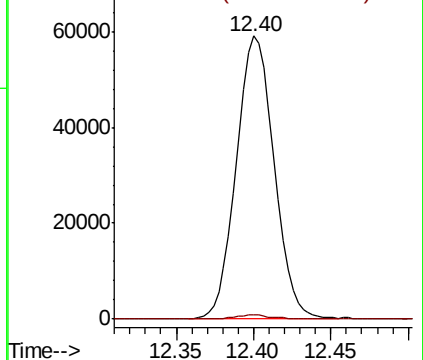
75 100

77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 64.013 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059447.D

Acq: 29 Nov 2019 14:45

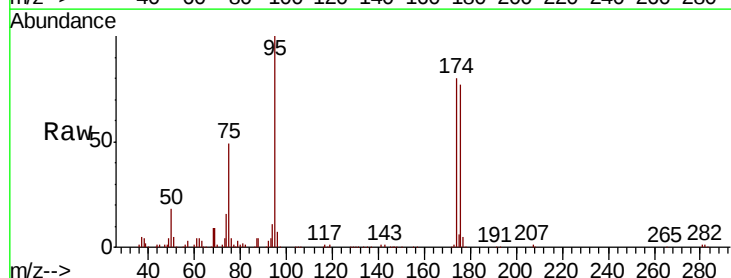
Tgt Ion: 75 Resp: 100396

Ion Ratio Lower Upper

75 100

53 0.0 66.2 99.4#

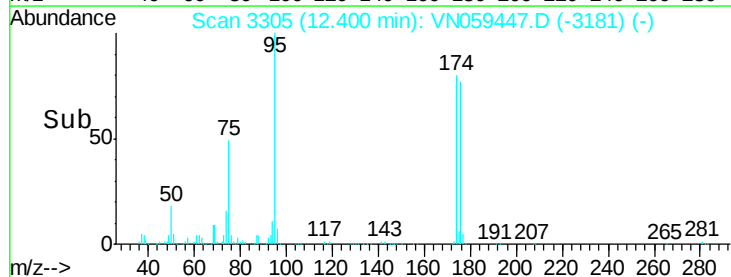
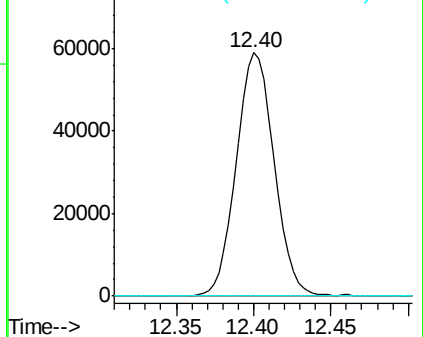
89 0.0 33.9 50.9#

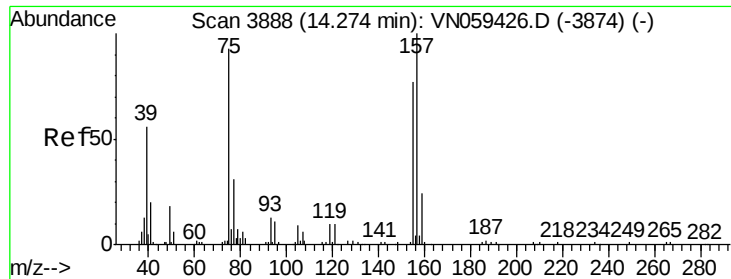


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

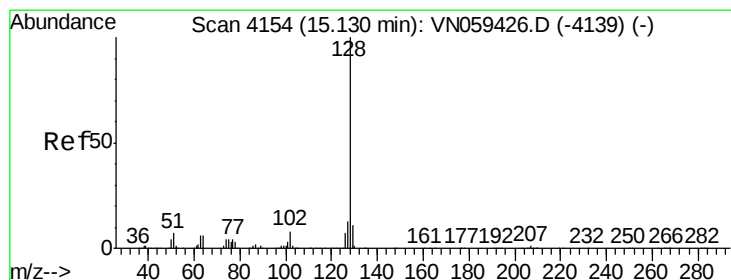
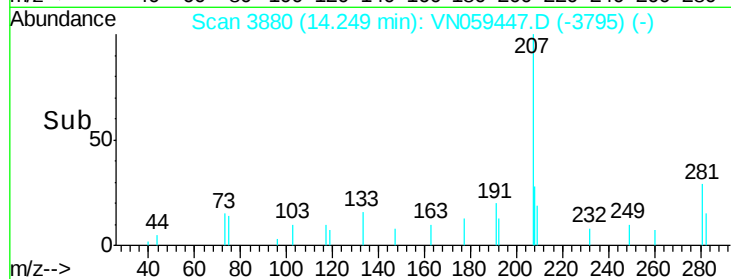
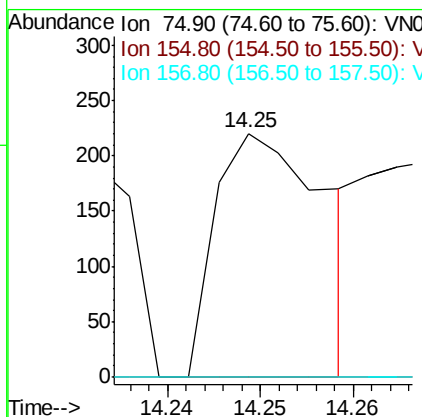
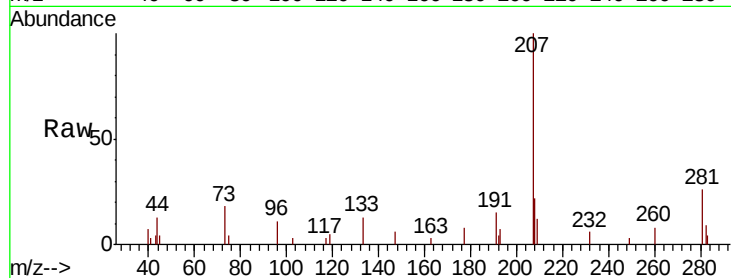




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.25 min Scan# 3880
 Delta R.T. -0.03 min
 Lab File: VN059447.D
 Acq: 29 Nov 2019 14:45

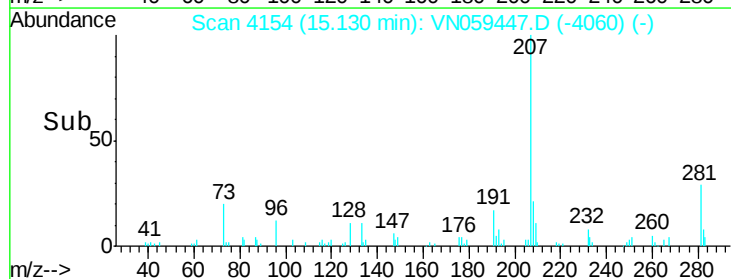
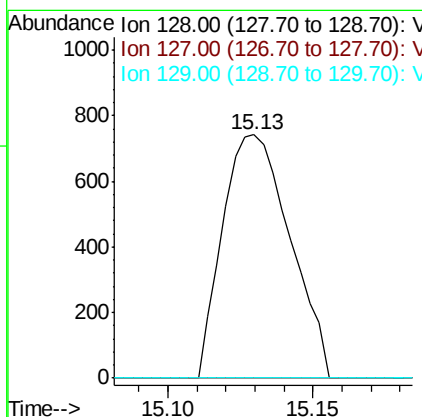
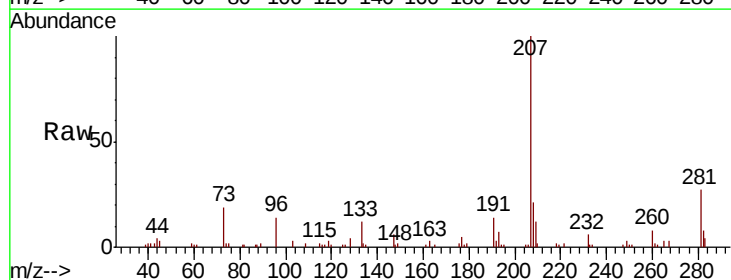
Instrument :
 MSVOA_N
 ClientSampleId :

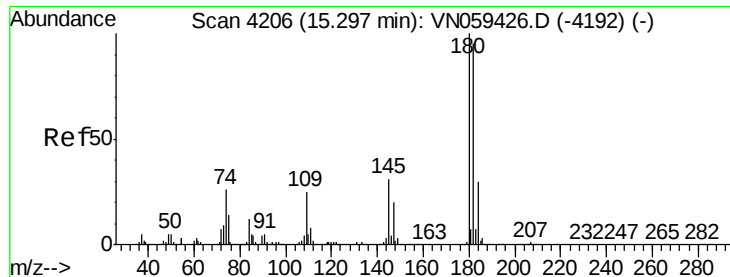
Tot Ion: 75 Resp: 181
 Ion Ratio Lower Upper
 75 100
 155 0.0 41.9 125.8#
 157 0.0 54.1 162.3#



#95
 Naphthalene
 Concen: Below Cal
 RT: 15.13 min Scan# 4154
 Delta R.T. 0.00 min
 Lab File: VN059447.D
 Acq: 29 Nov 2019 14:45

Tgt Ion: 128 Resp: 1196
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.1 15.1#
 129 0.0 8.6 12.8#





#96
 1,2,3-Trichlorobenzene
 Concen: Below Cal
 RT: 15.30 min Scan# 4208
 Delta R.T. 0.01 min
 Lab File: VN059447.D
 Acq: 29 Nov 2019 14:45

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.5	142.6#
145	67.0	15.7	47.1#

