

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012120\
 Data File : VN059810.D
 Acq On : 21 Jan 2020 14:31
 Operator : JC/MD
 Sample : PB126227ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 22 02:46:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	202196	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	304293	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	272337	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	112611	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	107842	48.03	ug/l	0.00
Spiked Amount			Recovery	=	96.06%	
35) Dibromofluoromethane	7.57	113	93325	51.43	ug/l	0.00
Spiked Amount			Recovery	=	102.86%	
50) Toluene-d8	10.08	98	361145	51.37	ug/l	0.00
Spiked Amount			Recovery	=	102.74%	
62) 4-Bromofluorobenzene	12.40	95	120781	47.65	ug/l	0.00
Spiked Amount			Recovery	=	95.30%	

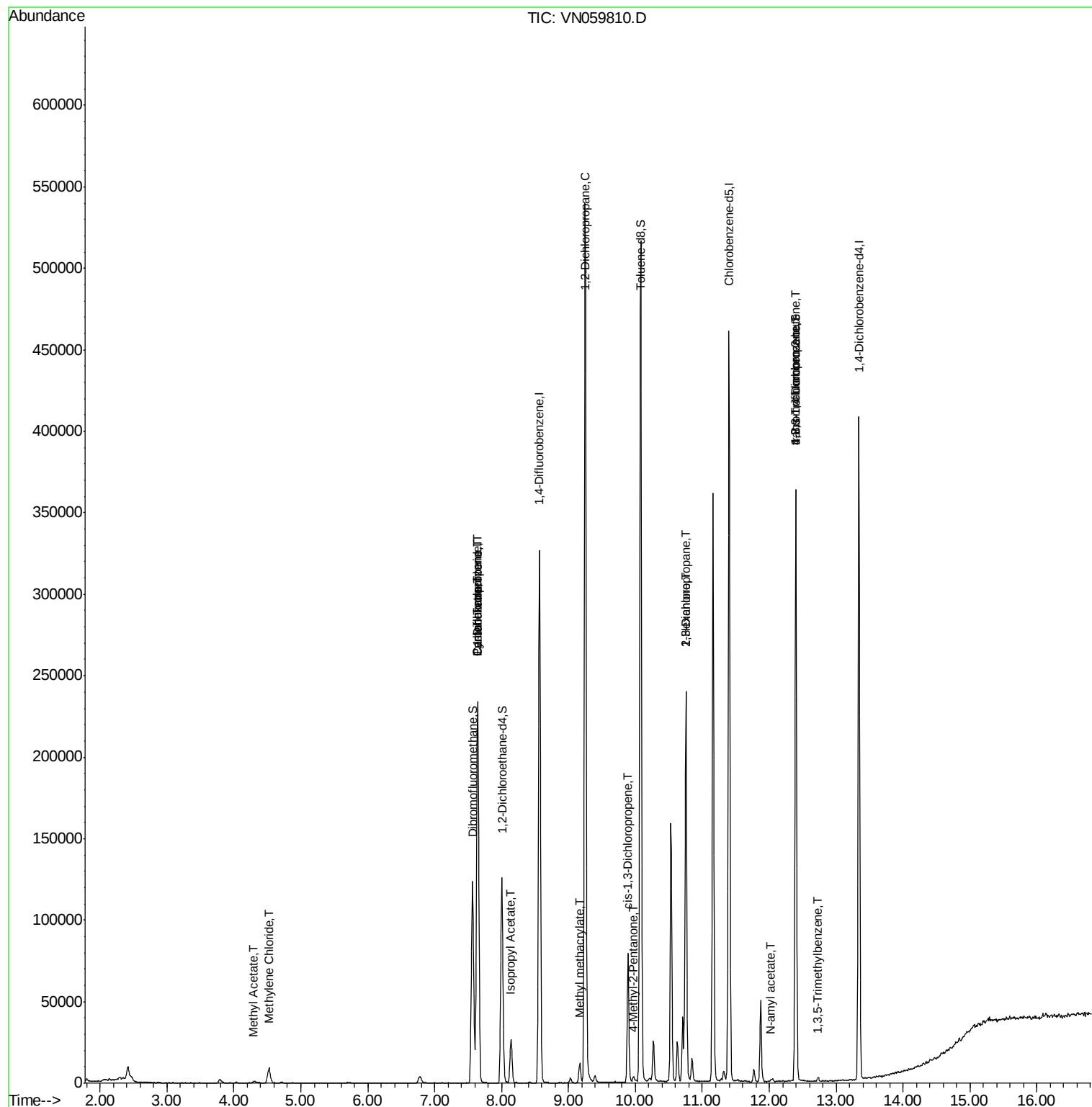
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	4253	Below Cal		100
18) Methyl Acetate	4.30	43	1337	0.510	ug/l #	83
20) Methylene Chloride	4.53	84	7369	2.395	ug/l	90
31) Cyclohexane	7.64	56	3841	1.156	ug/l #	3
36) 1,1-Dichloropropene	7.64	75	14012	5.288	ug/l #	50
38) Carbon Tetrachloride	7.64	117	19074	6.617	ug/l #	15
43) Isopropyl Acetate	8.14	43	31835	7.447	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	577	0.295	ug/l #	44
48) Methyl methacrylate	9.17	41	1532	0.801	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	1954	0.791	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	15254	4.671	ug/l #	56
57) 1,3-Dichloropropane	10.75	76	2721	0.867	ug/l #	42
59) 2-Hexanone	10.75	43	33600	18.456	ug/l #	55
74) N-amyl acetate	12.03	43	690	0.215	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	60350	31.845	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	1710	0.246	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.40	75	60350	68.387	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.31	75	62	Below Cal	#	6

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

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Quant Title : SW846 8260
QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059810.D

Acq: 21 Jan 2020 14:31

Instrument :

MSVOA_N

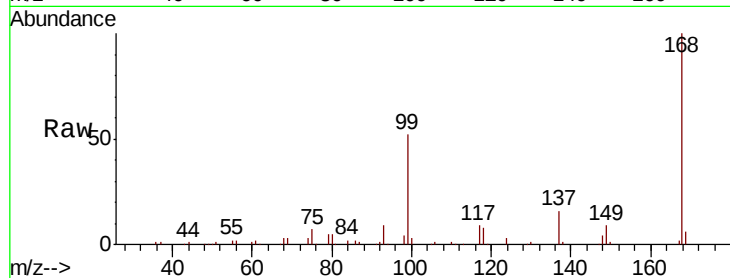
ClientSampled :

Tot Ion:168 Resp: 202196

Ion Ratio Lower Upper

168 100

99 51.8 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN059810.D (-1732) (-)

Ion 98.90 (98.60 to 99.60): VN059810.D (-1732) (-)

7.64

80000

60000

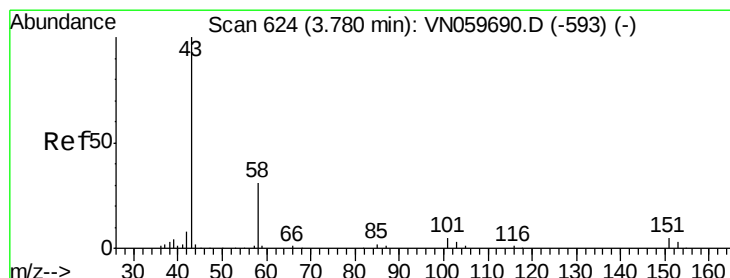
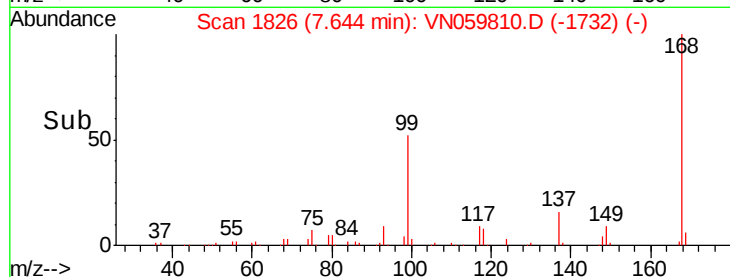
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: Below Cal

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN059810.D

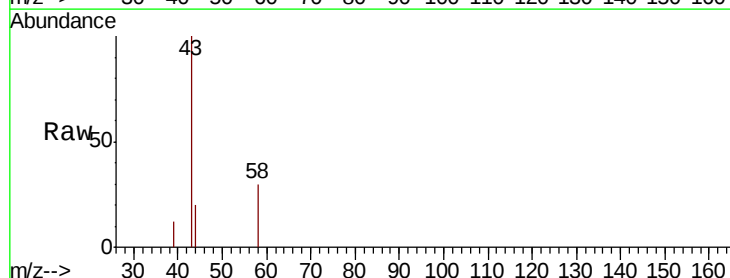
Acq: 21 Jan 2020 14:31

Tgt Ion: 43 Resp: 4253

Ion Ratio Lower Upper

43 100

58 29.6 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN059810.D (-530) (-)

Ion 58.00 (57.70 to 58.70): VN059810.D (-530) (-)

3.78

1500

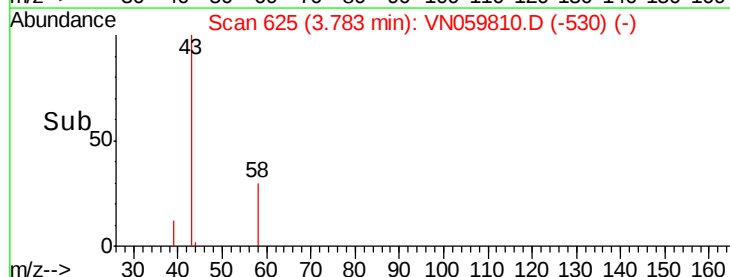
1000

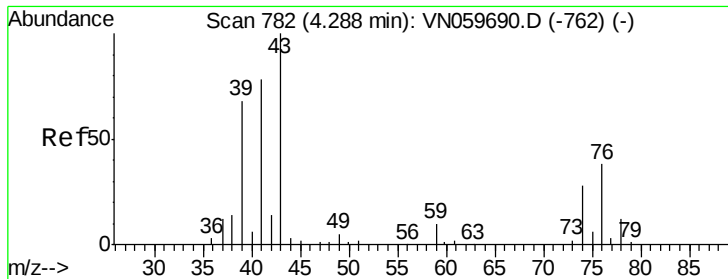
500

0

3.75 3.80 3.85

Time-->

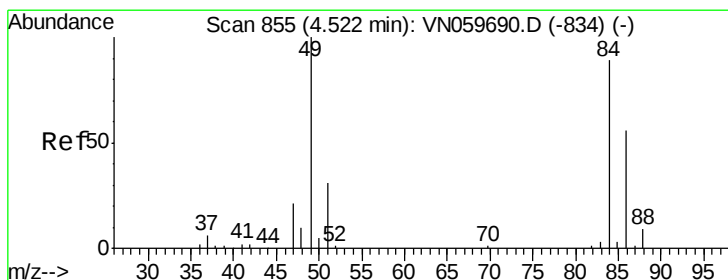
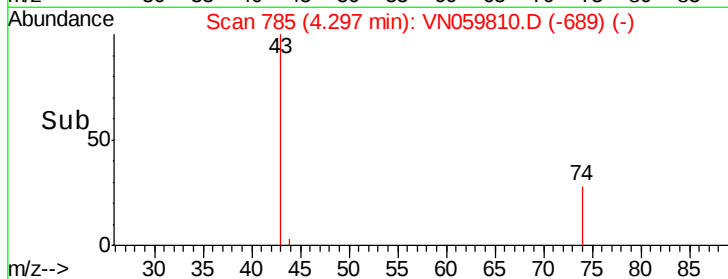
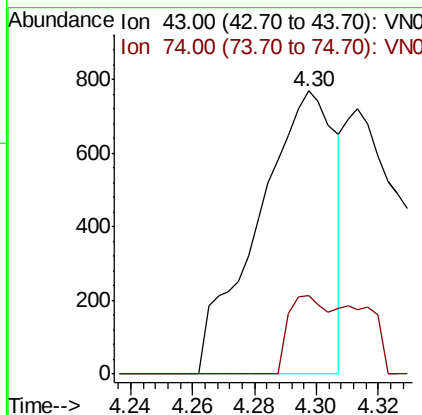
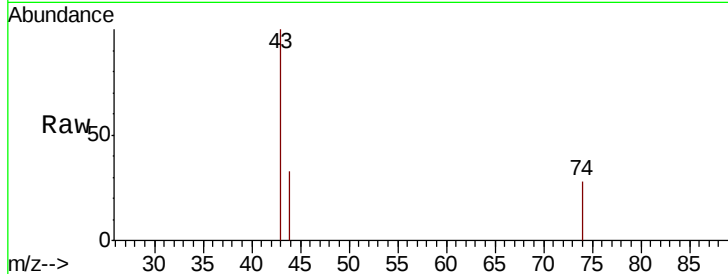




#18
Methyl Acetate
Concen: 0.510 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN059810.D
Acq: 21 Jan 2020 14:31

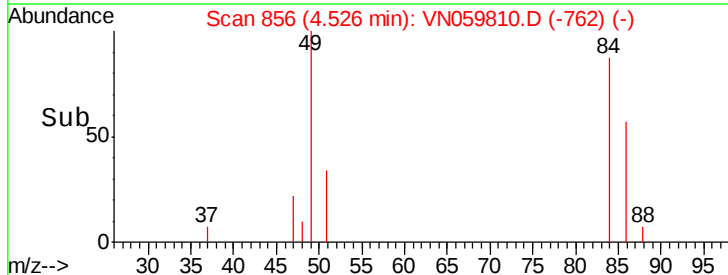
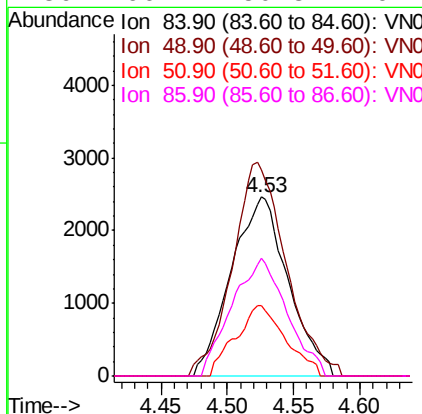
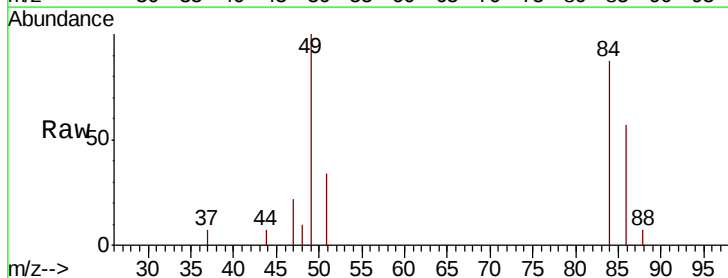
Instrument :
MSVOA_N
ClientSampled :

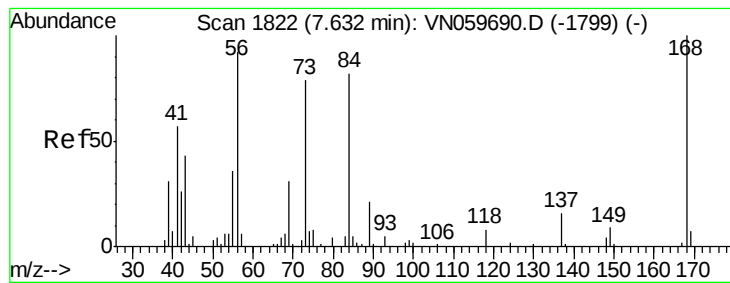
Tot Ion: 43 Resp: 1337
Ion Ratio Lower Upper
43 100
74 13.7 17.5 26.3#



#20
Methylene Chloride
Concen: 2.395 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059810.D
Acq: 21 Jan 2020 14:31

Tgt Ion: 84 Resp: 7369
Ion Ratio Lower Upper
84 100
49 115.1 106.6 160.0
51 39.1 31.9 47.9
86 66.2 50.8 76.2





#31

Cyclohexane

Concen: 1.156 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN059810.D

Acq: 21 Jan 2020 14:31

Instrument :

MSVOA_N

ClientSampled :

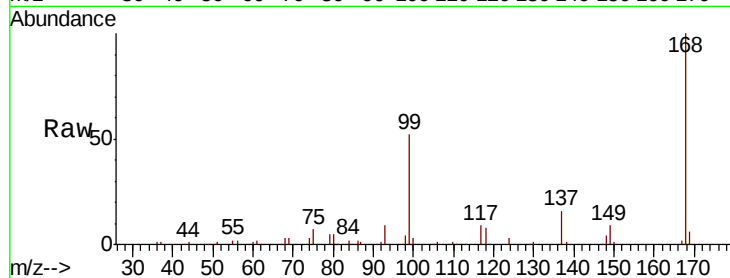
Tot Ion: 56 Resp: 3841

Ion Ratio Lower Upper

56 100

69 163.5 26.5 39.7#

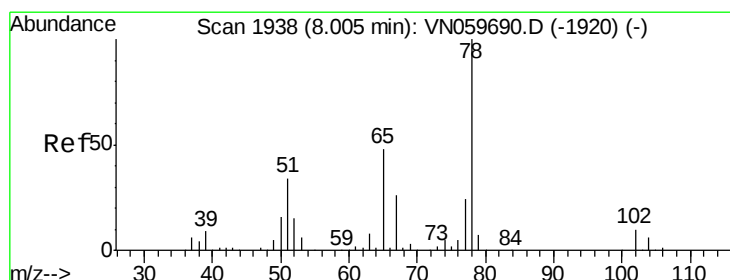
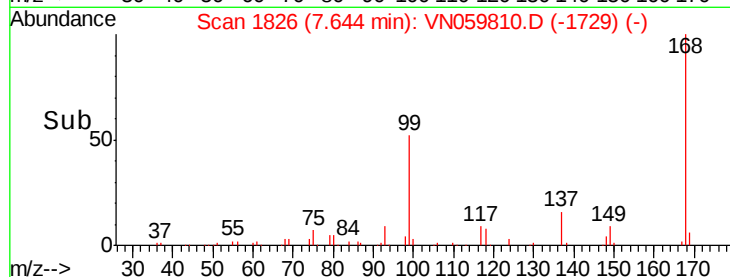
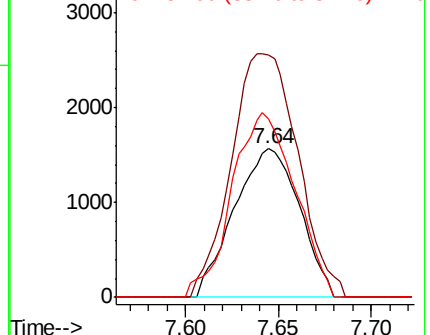
84 120.1 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VN059690.D (-1799) (-)

Ion 69.00 (68.70 to 69.70): VN059690.D (-1799) (-)

Ion 84.00 (83.70 to 84.70): VN059690.D (-1799) (-)



#33

1,2-Dichloroethane-d4

Concen: 48.027 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN059810.D

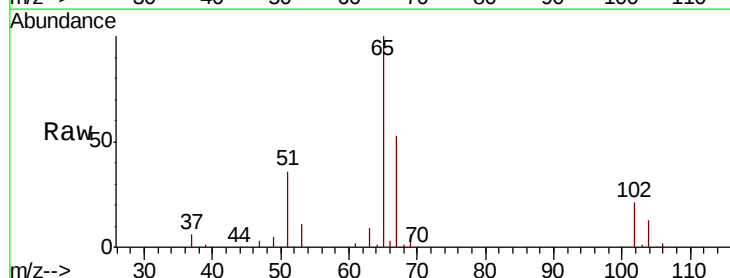
Acq: 21 Jan 2020 14:31

Tgt Ion: 65 Resp: 107842

Ion Ratio Lower Upper

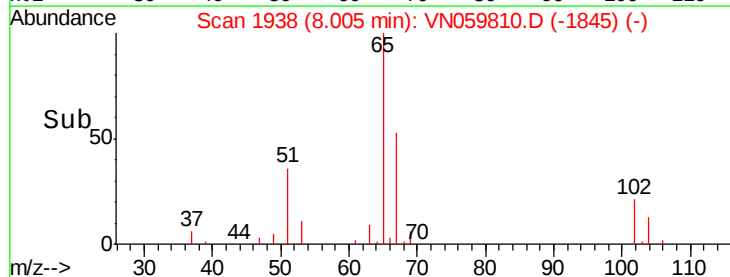
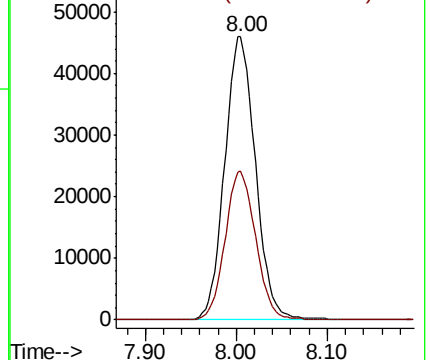
65 100

67 52.2 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN059690.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN059690.D (-1920) (-)

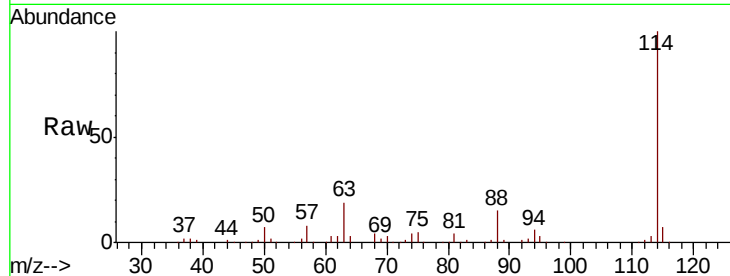




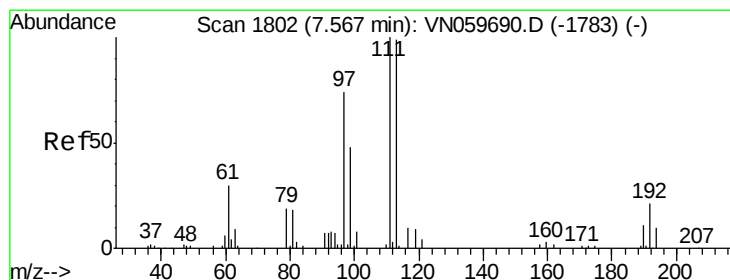
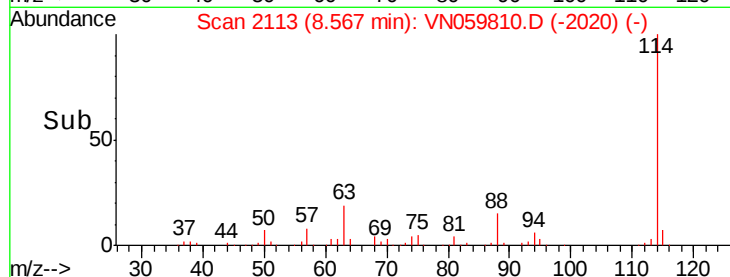
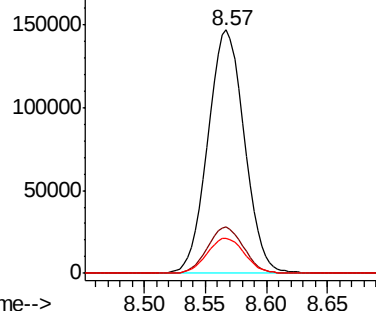
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059810.D
 Acq: 21 Jan 2020 14:31

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 304293
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 43.6
 88 14.6 0.0 31.4

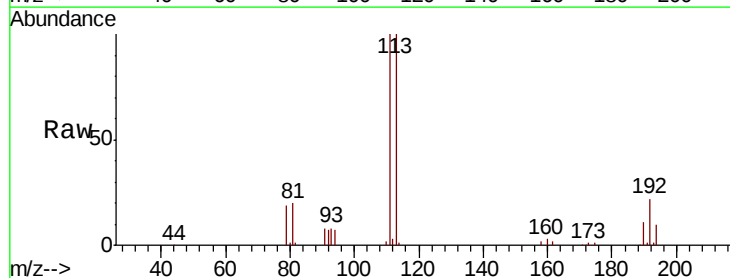


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

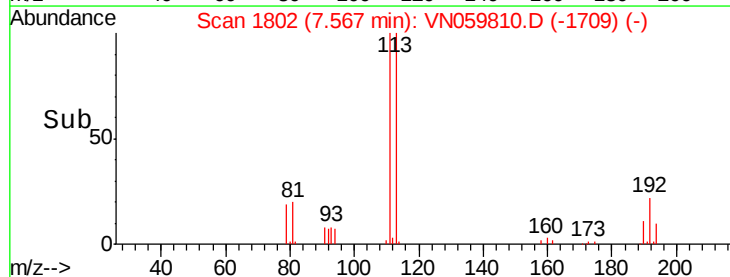
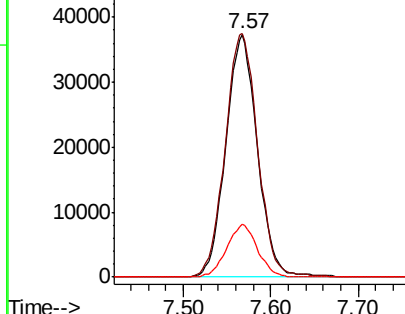


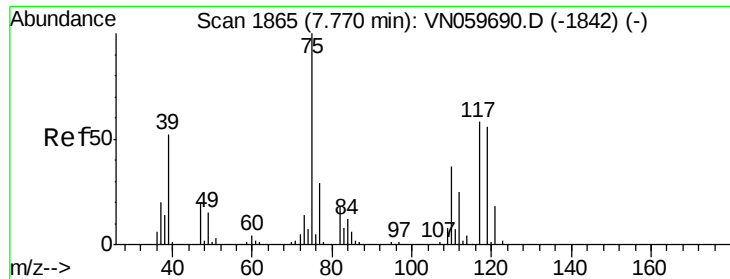
#35
 Dibromofluoromethane
 Concen: 51.429 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059810.D
 Acq: 21 Jan 2020 14:31

Tgt Ion:113 Resp: 93325
 Ion Ratio Lower Upper
 113 100
 111 103.3 83.5 125.3
 192 21.1 15.4 23.2



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.288 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN059810.D

Acq: 21 Jan 2020 14:31

Instrument :

MSVOA_N

ClientSampleId :

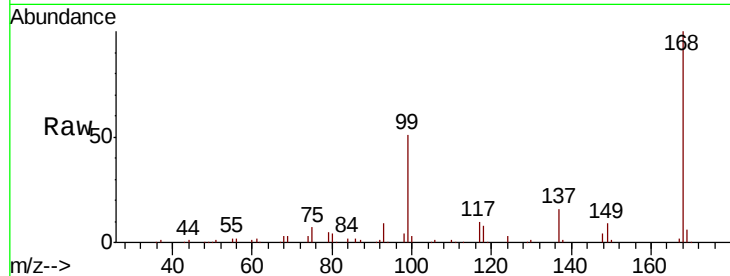
Tot Ion: 75 Resp: 14012

Ion Ratio Lower Upper

75 100

110 8.6 16.6 49.7#

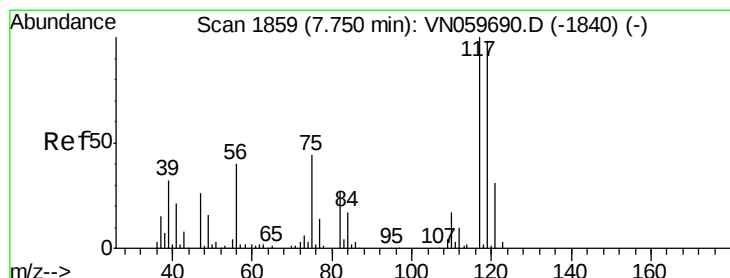
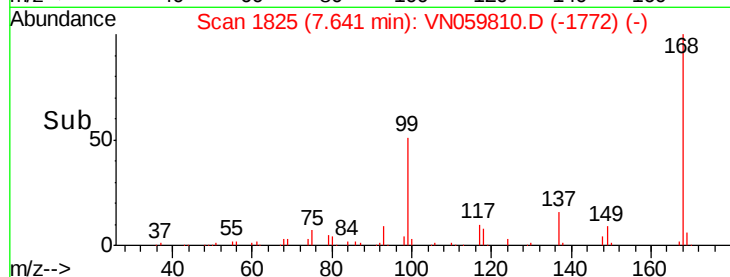
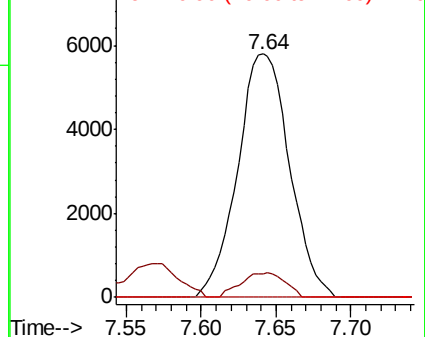
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN059690.D (-1842) (-)

Ion 109.90 (109.60 to 110.60): VN059690.D (-1842) (-)

Ion 76.90 (76.60 to 77.60): VN059690.D (-1842) (-)



#38

Carbon Tetrachloride

Concen: 6.617 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN059810.D

Acq: 21 Jan 2020 14:31

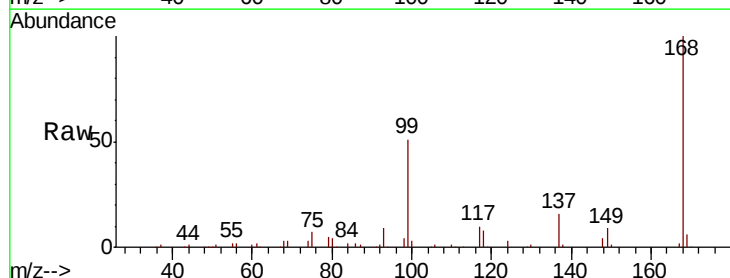
Tgt Ion: 117 Resp: 19074

Ion Ratio Lower Upper

117 100

119 4.3 76.5 114.7#

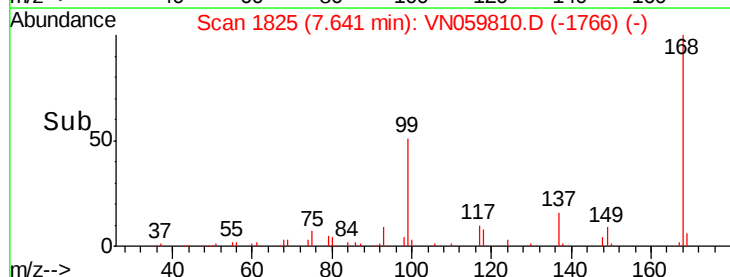
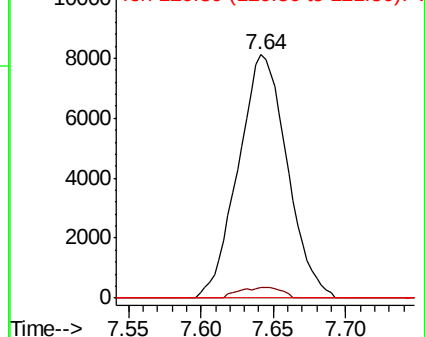
121 0.0 25.1 37.7#

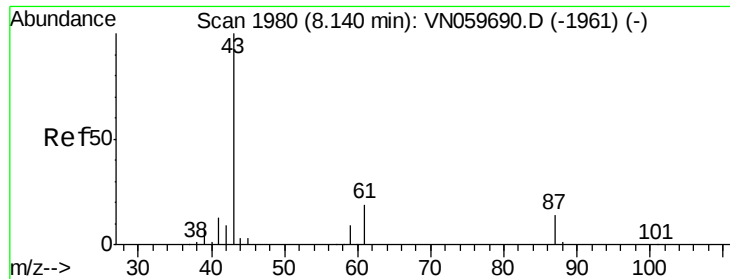


Abundance Ion 116.80 (116.50 to 117.50): VN059690.D (-1840) (-)

Ion 118.80 (118.50 to 119.50): VN059690.D (-1840) (-)

Ion 120.80 (120.50 to 121.50): VN059690.D (-1840) (-)





#43

Isopropyl Acetate

Concen: 7.447 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059810.D

Acq: 21 Jan 2020 14:31

Instrument :

MSVOA_N

ClientSampleId :

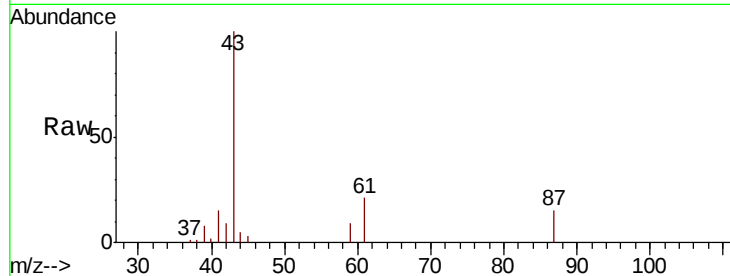
Tot Ion: 43 Resp: 31835

Ion Ratio Lower Upper

43 100

61 20.9 20.2 30.2

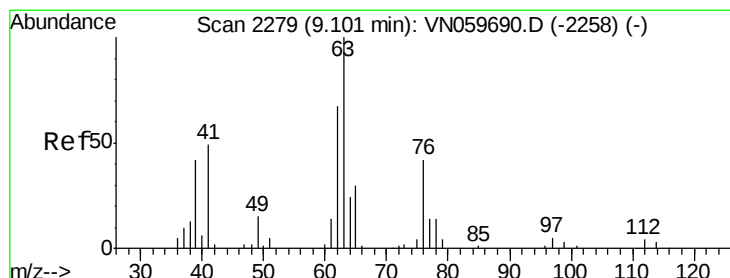
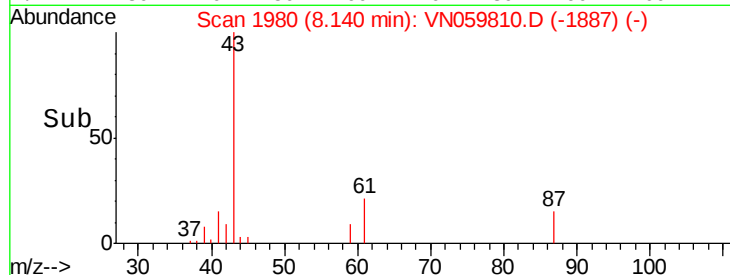
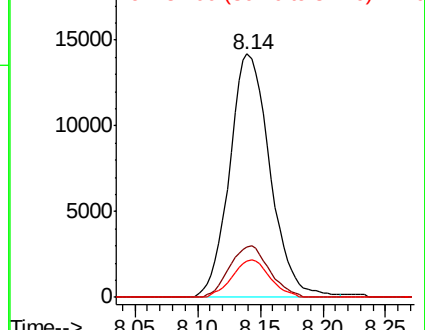
87 14.4 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN059810.D (-1887) (-)

Ion 61.00 (60.70 to 61.70): VN059810.D (-1887) (-)

Ion 87.00 (86.70 to 87.70): VN059810.D (-1887) (-)



#45

1,2-Dichloropropane

Concen: 0.295 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN059810.D

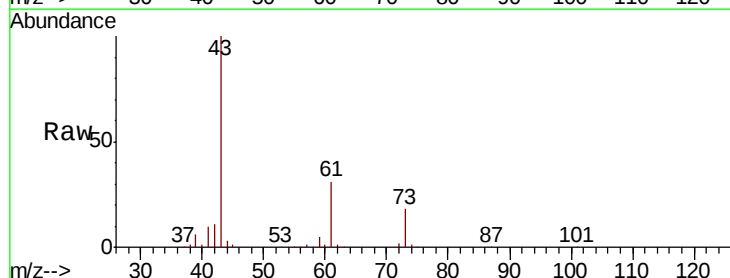
Acq: 21 Jan 2020 14:31

Tgt Ion: 63 Resp: 577

Ion Ratio Lower Upper

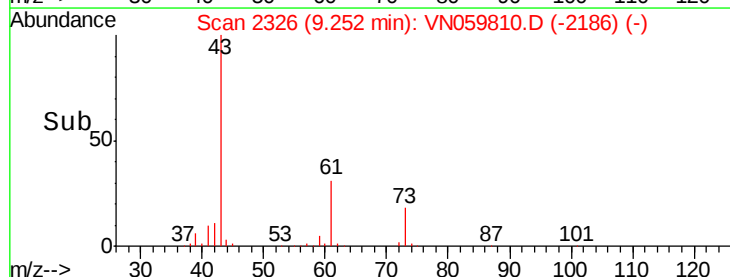
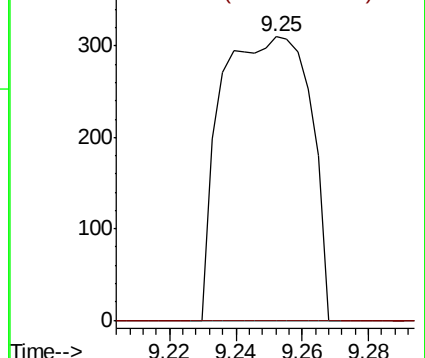
63 100

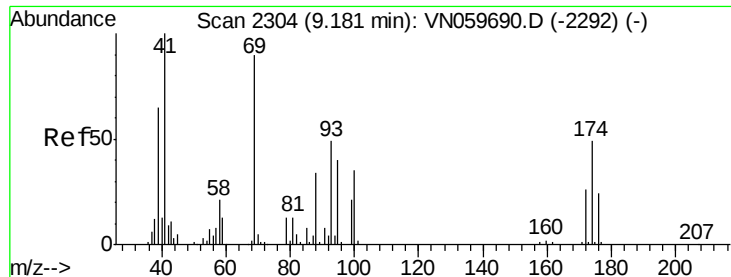
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN059810.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN059810.D (-2186) (-)

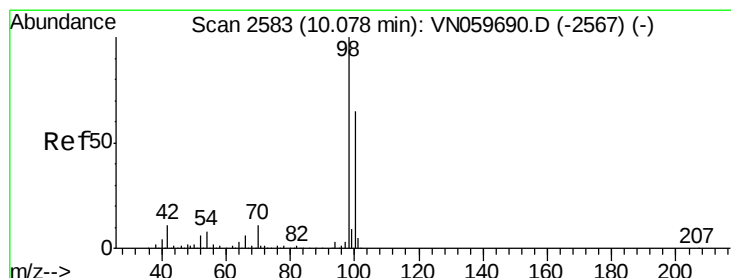
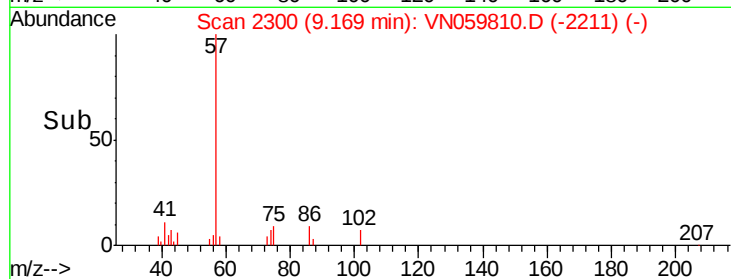
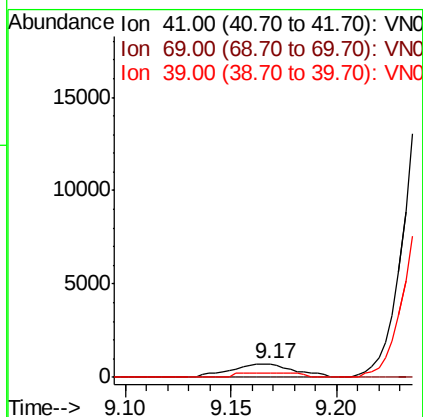
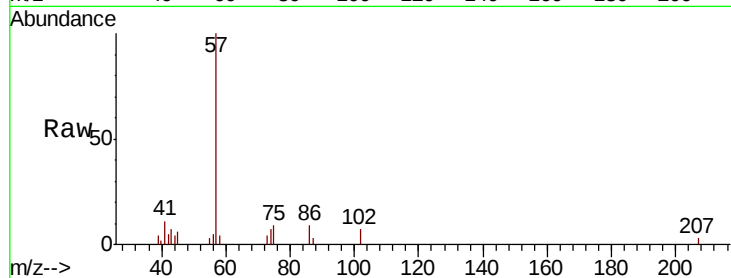




#48
Methvl methacrylate
Concen: 0.801 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. -0.01 min
Lab File: VN059810.D
Acq: 21 Jan 2020 14:31

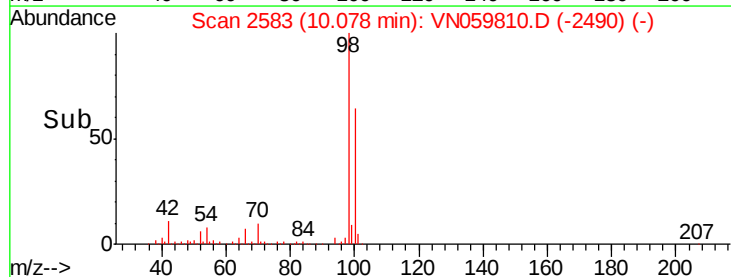
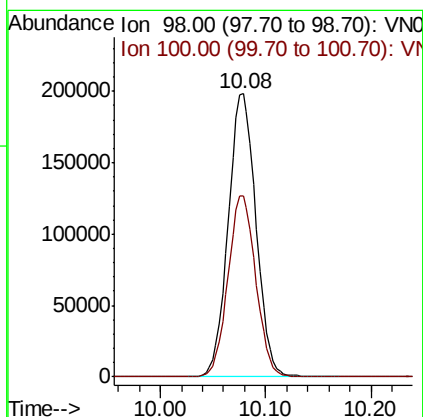
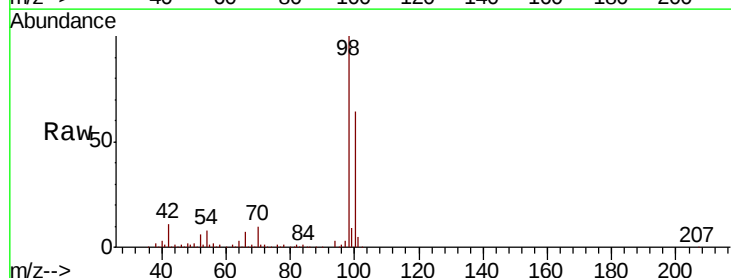
Instrument :
MSVOA_N
ClientSampled :

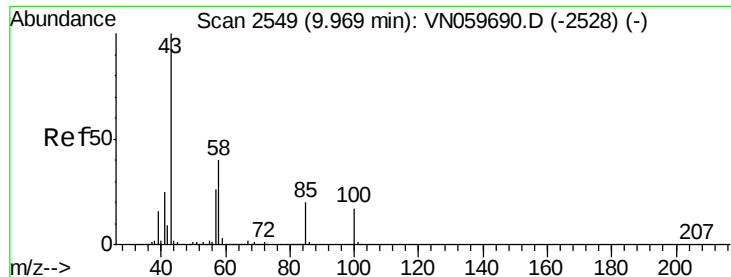
Tot Ion: 41 Resp: 1532
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 51.366 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059810.D
Acq: 21 Jan 2020 14:31

Tgt Ion: 98 Resp: 361145
Ion Ratio Lower Upper
98 100
100 64.1 51.2 76.8

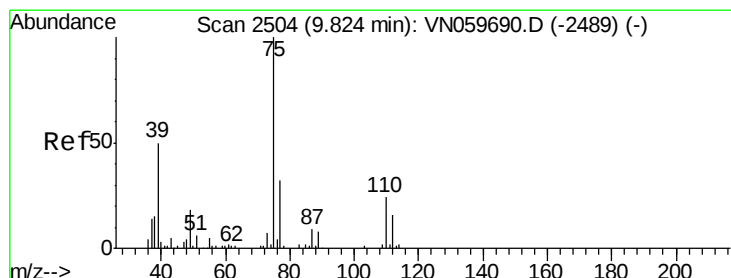
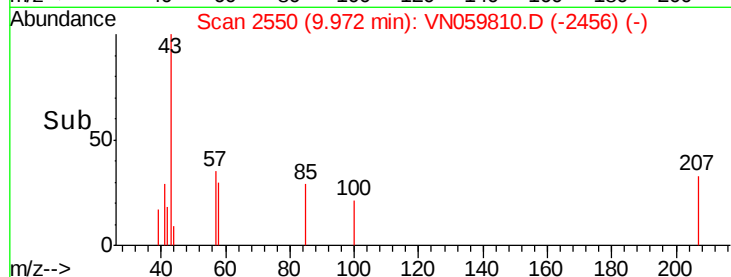
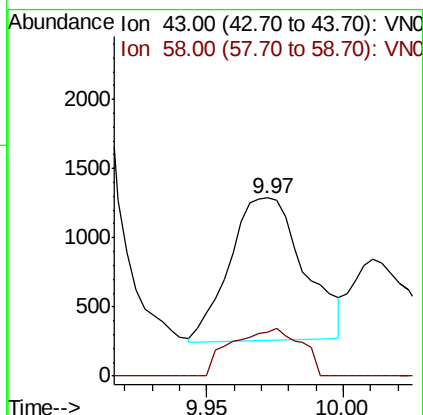
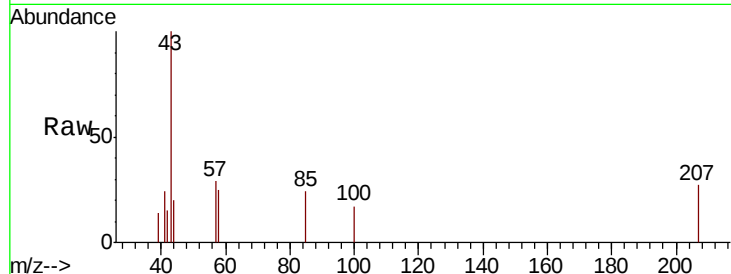




#51
 4-Methyl-2-Pentanone
 Concen: 0.791 ug/l
 RT: 9.97 min Scan# 2550
 Delta R.T. 0.00 min
 Lab File: VN059810.D
 Acq: 21 Jan 2020 14:31

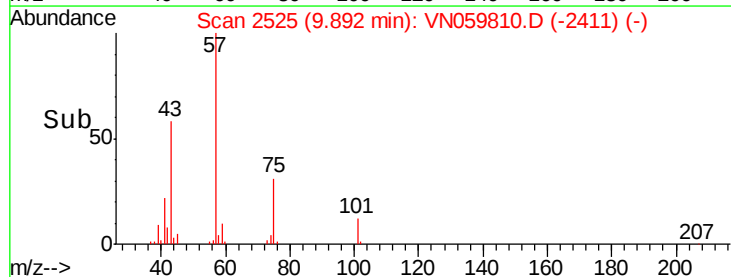
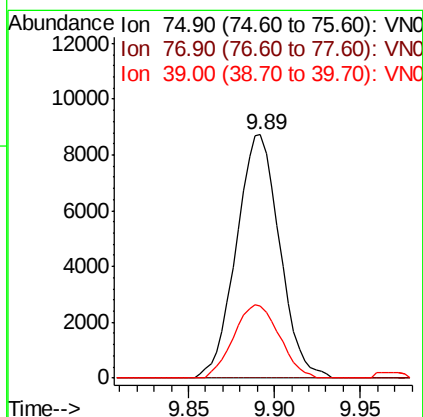
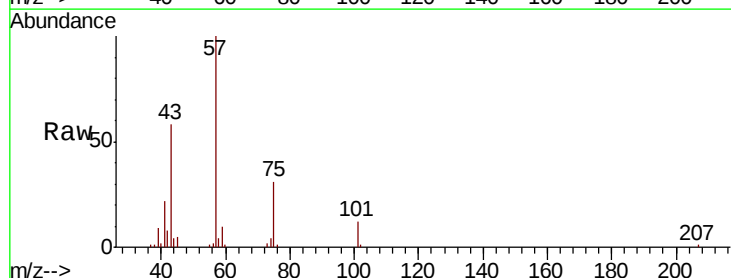
Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 43 Resp: 1954
 Ion Ratio Lower Upper
 43 100
 58 31.2 29.8 44.8



#54
 cis-1,3-Dichloropropene
 Concen: 4.671 ug/l
 RT: 9.89 min Scan# 2525
 Delta R.T. 0.07 min
 Lab File: VN059810.D
 Acq: 21 Jan 2020 14:31

Tgt Ion: 75 Resp: 15254
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 29.7 46.1 69.1#





#57

1,3-Dichloropropane

Concen: 0.867 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN059810.D

Acq: 21 Jan 2020 14:31

Instrument :

MSVOA_N

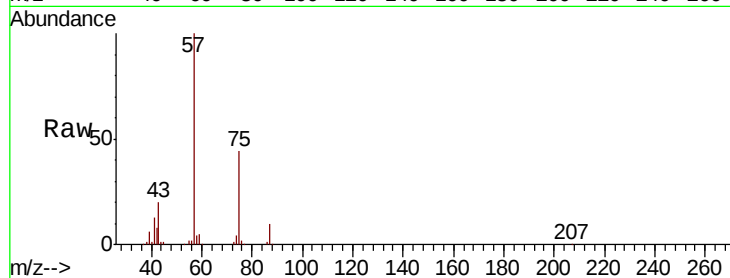
ClientSampled :

Tot Ion: 76 Resp: 2721

Ion Ratio Lower Upper

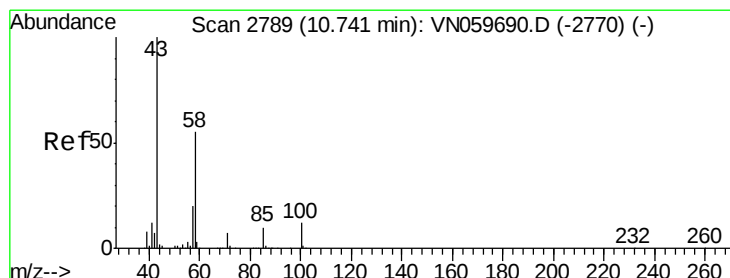
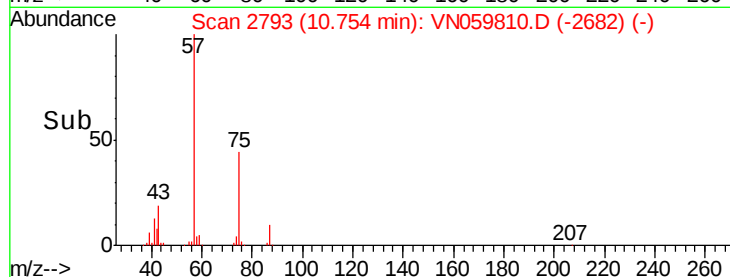
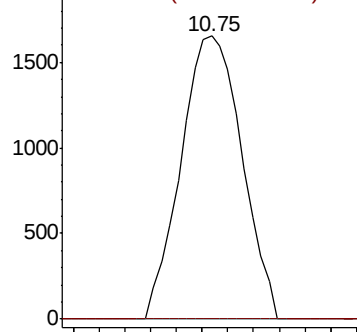
76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 18.456 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN059810.D

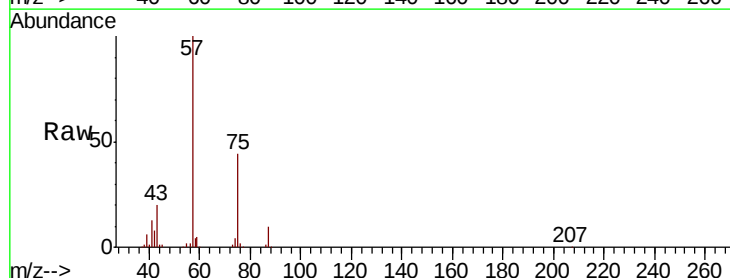
Acq: 21 Jan 2020 14:31

Tgt Ion: 43 Resp: 33600

Ion Ratio Lower Upper

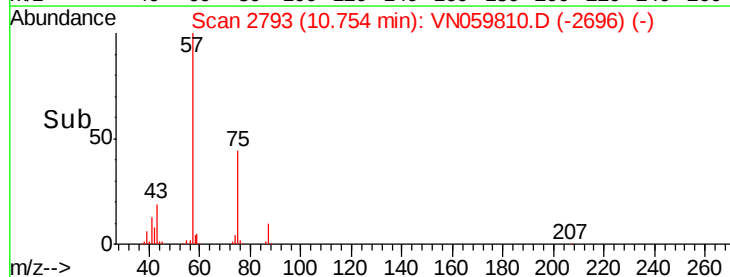
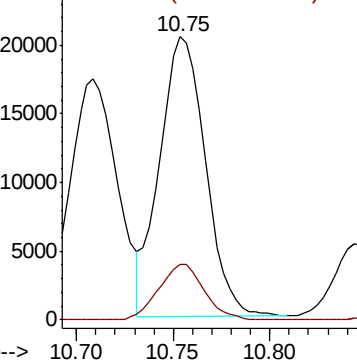
43 100

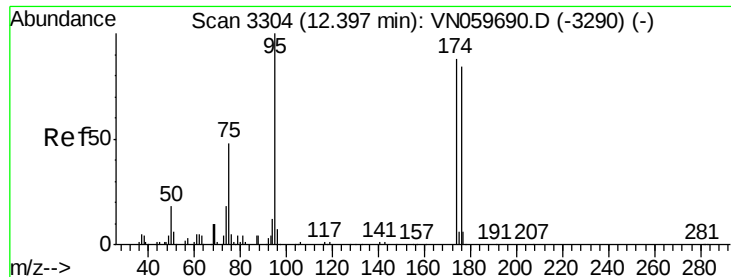
58 19.7 25.8 77.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 47.653 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059810.D

Acq: 21 Jan 2020 14:31

Instrument :

MSVOA_N

ClientSampled :

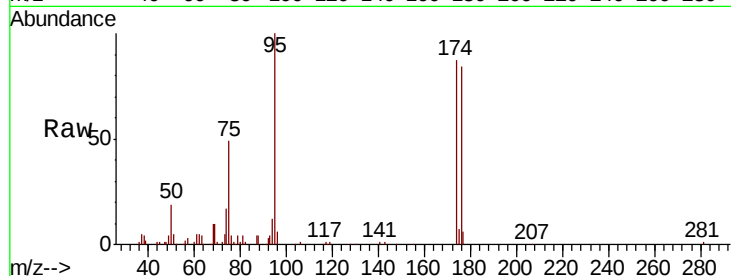
Tot Ion: 95 Resp: 120781

Ion Ratio Lower Upper

95 100

174 87.8 0.0 151.4

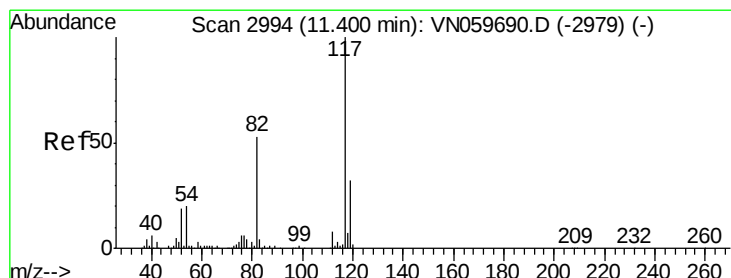
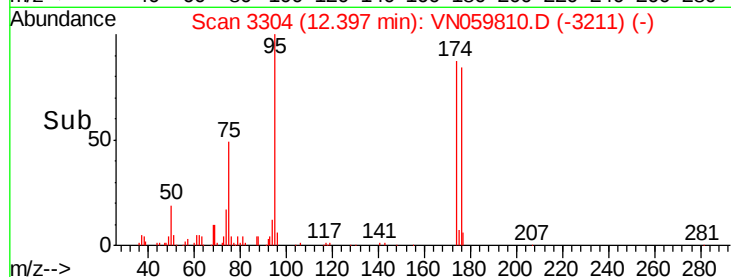
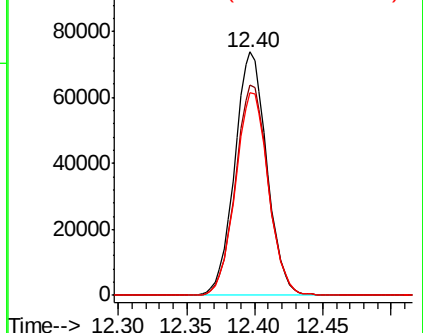
176 85.4 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN059810.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN059810.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN059810.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059810.D

Acq: 21 Jan 2020 14:31

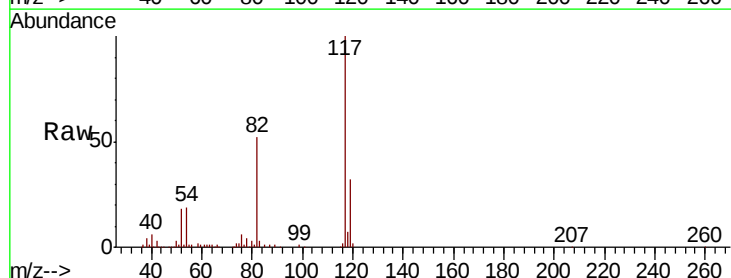
Tgt Ion: 117 Resp: 272337

Ion Ratio Lower Upper

117 100

82 52.2 45.9 68.9

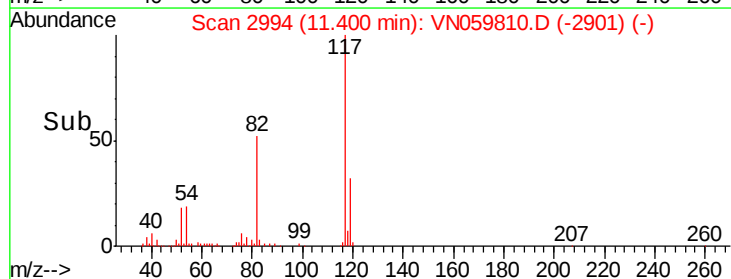
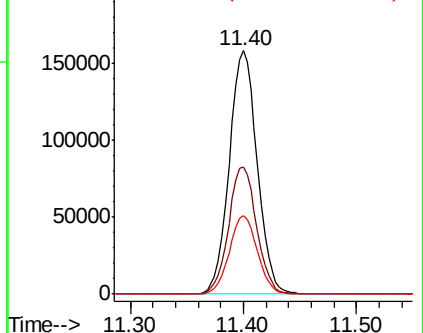
119 32.1 25.5 38.3

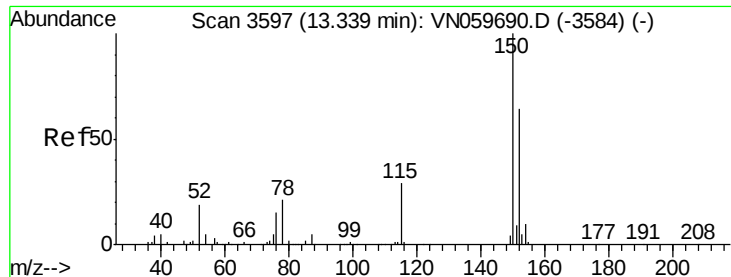


Abundance Ion 116.90 (116.60 to 117.60): VN059810.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN059810.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN059810.D (-2901) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059810.D

Acq: 21 Jan 2020 14:31

Instrument :

MSVOA_N

ClientSampleId :

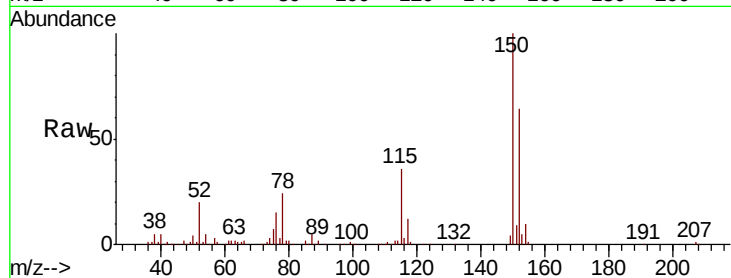
Tot Ion:152 Resp: 112611

Ion Ratio Lower Upper

152 100

115 57.2 30.3 90.9

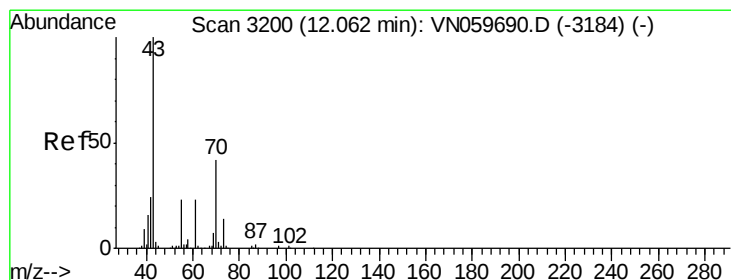
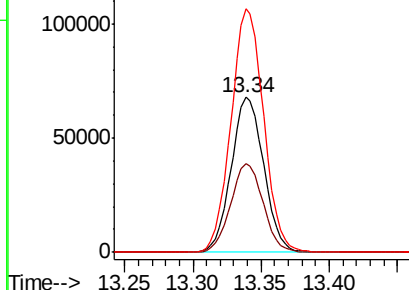
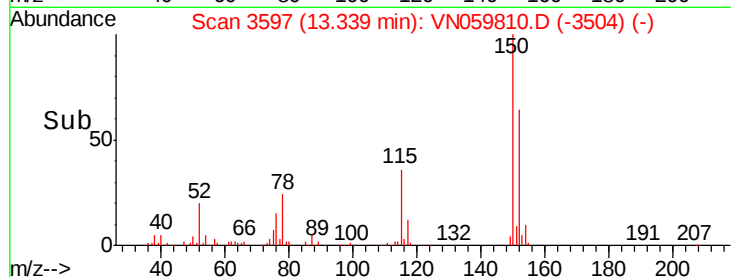
150 157.2 0.0 345.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.215 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059810.D

Acq: 21 Jan 2020 14:31

Tgt Ion: 43 Resp: 690

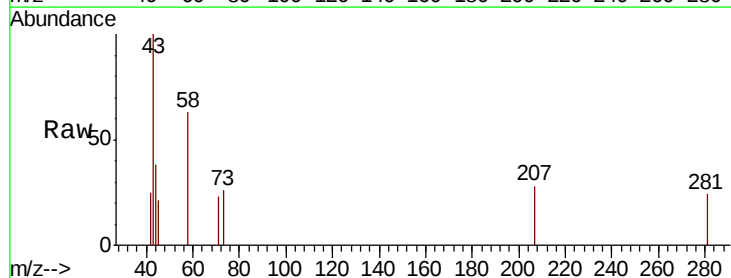
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

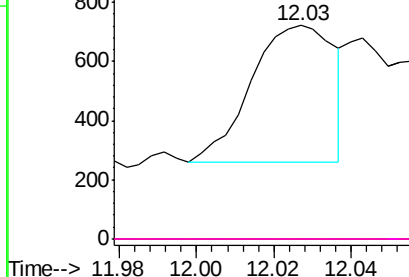
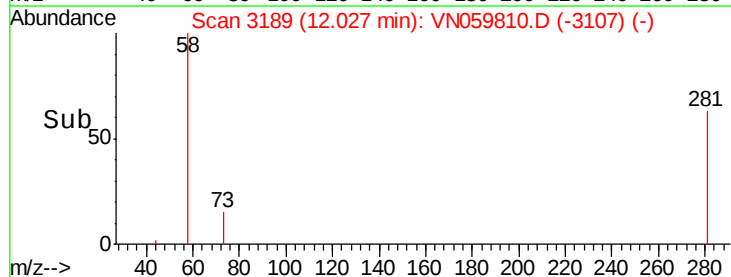


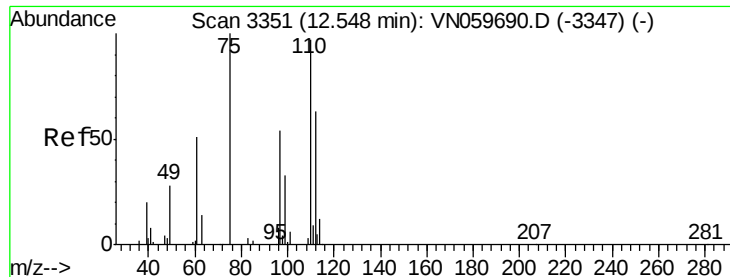
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 31.845 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059810.D

Acq: 21 Jan 2020 14:31

Instrument :

MSVOA_N

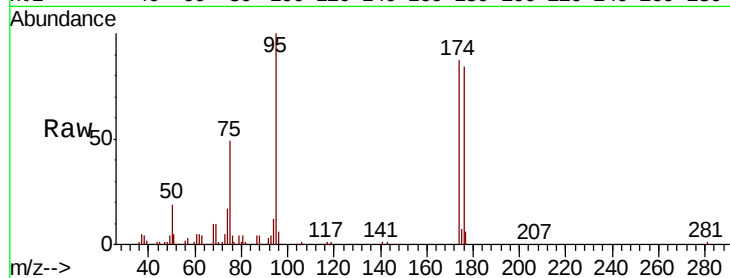
ClientSampled :

Tot Ion: 75 Resp: 60350

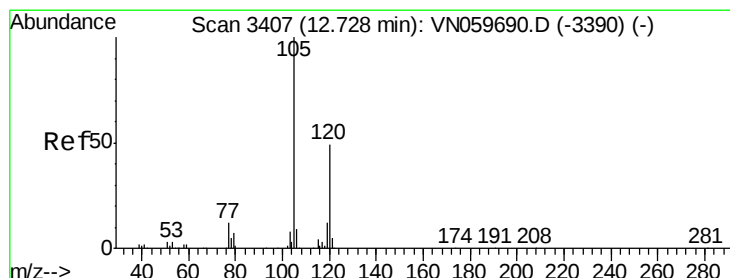
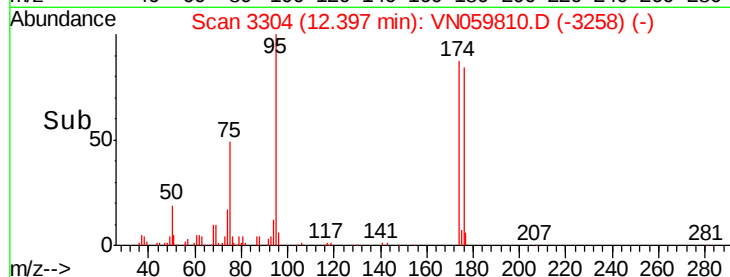
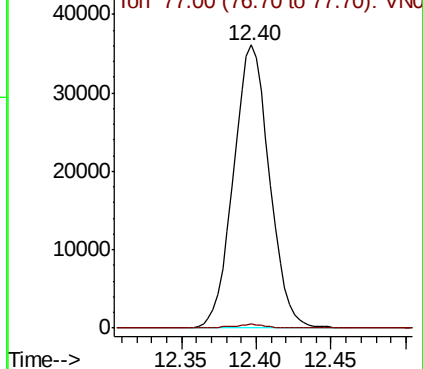
Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN059810.D (-3304) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.246 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN059810.D

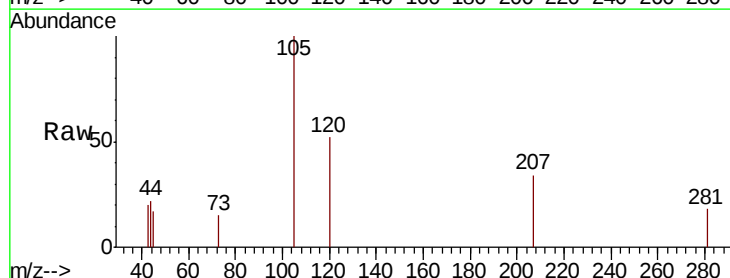
Acq: 21 Jan 2020 14:31

Tgt Ion: 105 Resp: 1710

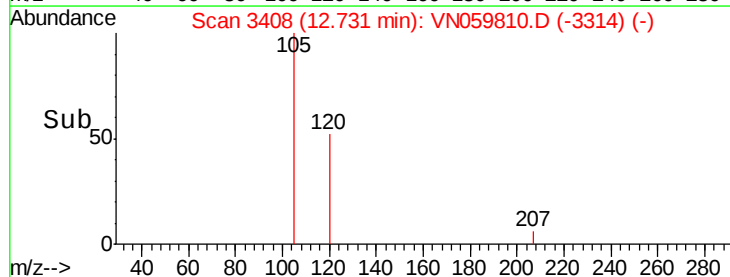
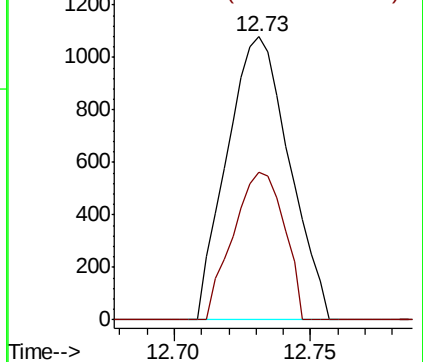
Ion Ratio Lower Upper

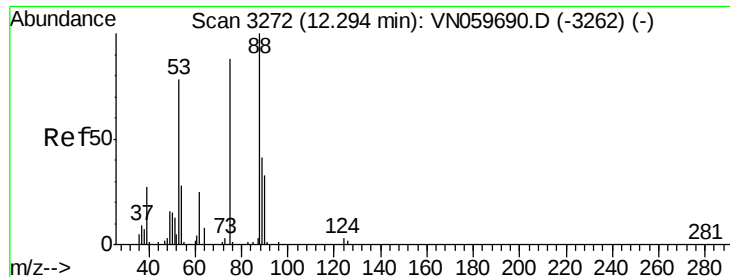
105 100

120 42.7 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN059810.D (-3314) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 68.387 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059810.D

Acq: 21 Jan 2020 14:31

Instrument :

MSVOA_N

ClientSampled :

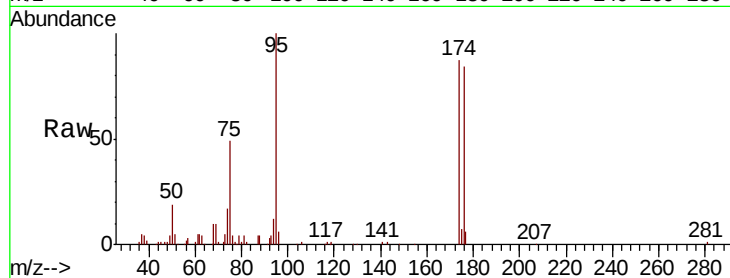
Tot Ion: 75 Resp: 60350

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

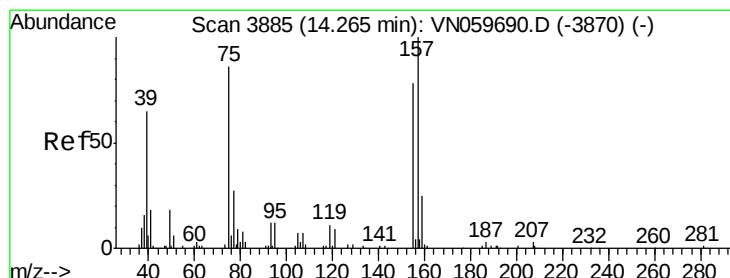
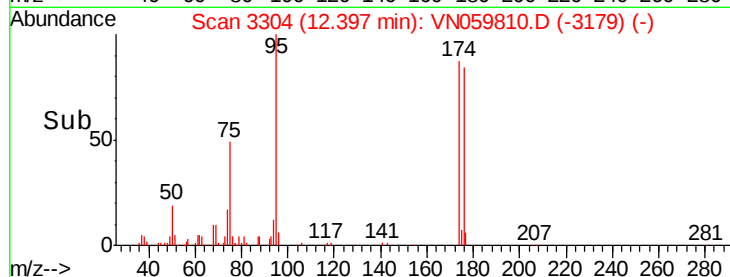
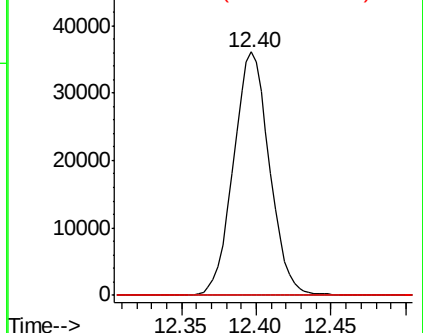
89 0.0 35.4 53.2#



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: 14.31 min Scan# 3898

Delta R.T. 0.04 min

Lab File: VN059810.D

Acq: 21 Jan 2020 14:31

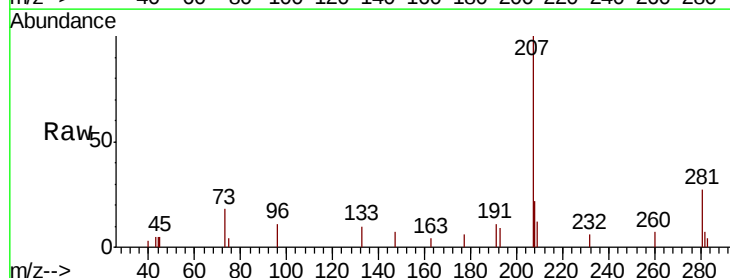
Tgt Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

