

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052020\
 Data File : VN061512.D
 Acq On : 20 May 2020 19:47
 Operator : JC/MD
 Sample : PB129002ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 21 01:14:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
 Quant Title : SW846 8260
 QLast Update : Mon May 18 13:09:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	270627	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	498854	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	499826	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	221808	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	181516	44.94	ug/l	0.00
Spiked Amount			Recovery	=	89.88%	
35) Dibromofluoromethane	7.55	113	133773	51.19	ug/l	0.00
Spiked Amount			Recovery	=	102.38%	
50) Toluene-d8	10.06	98	625695	51.62	ug/l	0.00
Spiked Amount			Recovery	=	103.24%	
62) 4-Bromofluorobenzene	12.37	95	242052	53.45	ug/l	0.00
Spiked Amount			Recovery	=	106.90%	

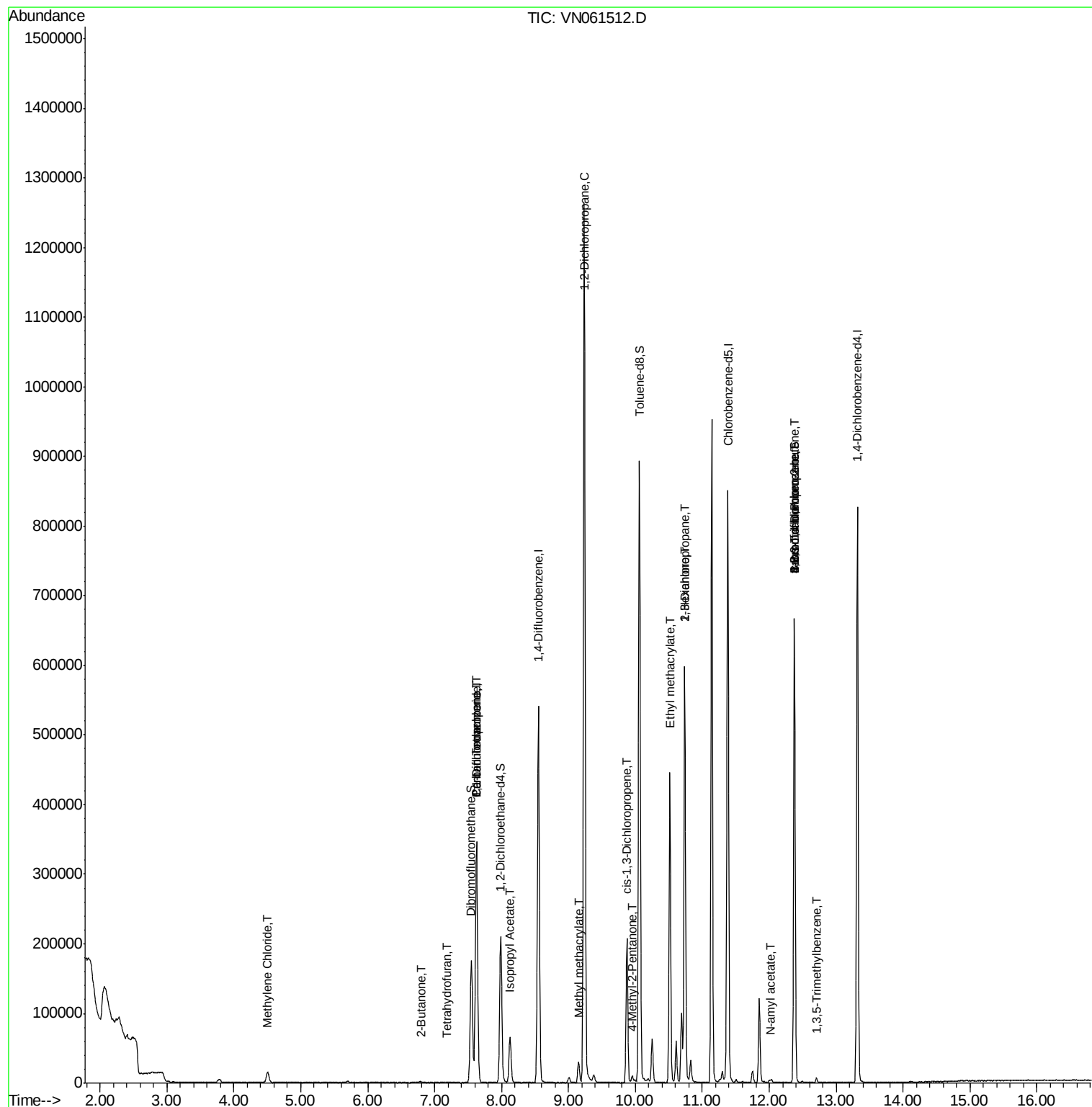
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	313	Below Cal	#	34
16) Acetone	3.77	43	8690	Below Cal	#	87
18) Methyl Acetate	4.28	43	2078	Below Cal	#	75
20) Methylene Chloride	4.50	84	11529	3.473	ug/l	91
25) 2-Butanone	6.80	43	1889	1.027	ug/l	100
29) Tetrahydrofuran	7.18	42	356	0.292	ug/l #	29
31) Cyclohexane	7.62	56	5947	Below Cal	#	1
36) 1,1-Dichloropropene	7.63	75	21294	4.565	ug/l #	50
38) Carbon Tetrachloride	7.63	117	28606	6.660	ug/l #	16
43) Isopropyl Acetate	8.12	43	77262	10.472	ug/l #	88
45) 1,2-Dichloropropane	9.24	63	1671	0.475	ug/l #	43
48) Methyl methacrylate	9.14	41	3670	1.077	ug/l #	9
51) 4-Methyl-2-Pentanone	9.95	43	6552	1.630	ug/l	93
54) cis-1,3-Dichloropropene	9.87	75	41626	6.875	ug/l #	57
56) Ethyl methacrylate	10.52	69	1298	0.243	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6653	1.128	ug/l #	42
59) 2-Hexanone	10.74	43	77482	26.646	ug/l #	50
71) Bromoform	12.38	173	1500	2.527	ug/l #	1
74) N-amyl acetate	12.00	43	2033	0.312	ug/l #	42
76) 1,2,3-Trichloropropane	12.37	75	121035	25.431	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3771	0.259	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.37	75	121035	67.461	ug/l #	12

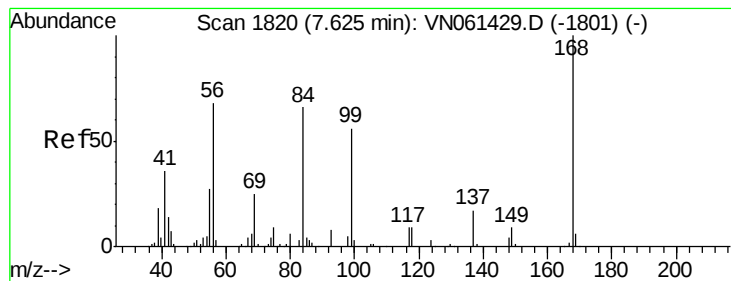
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
Quant Title : SW846 8260
QLast Update : Mon May 18 13:09:55 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061512.D

Acq: 20 May 2020 19:47

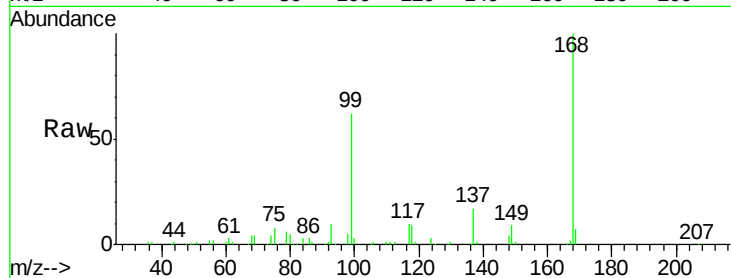
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 270627

Ion Ratio Lower Upper

168 100

99 61.6 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

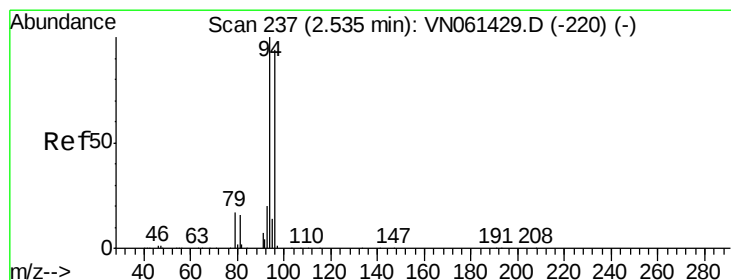
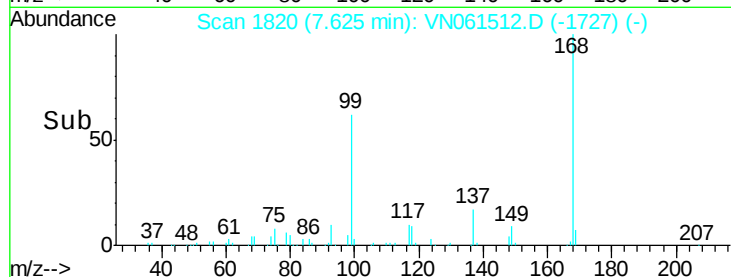
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 237

Delta R.T. 0.00 min

Lab File: VN061512.D

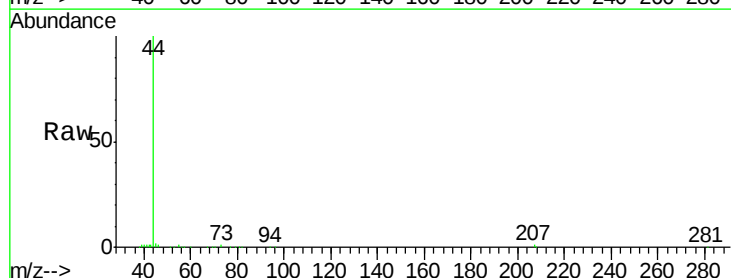
Acq: 20 May 2020 19:47

Tgt Ion: 94 Resp: 313

Ion Ratio Lower Upper

94 100

96 30.5 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.54

400

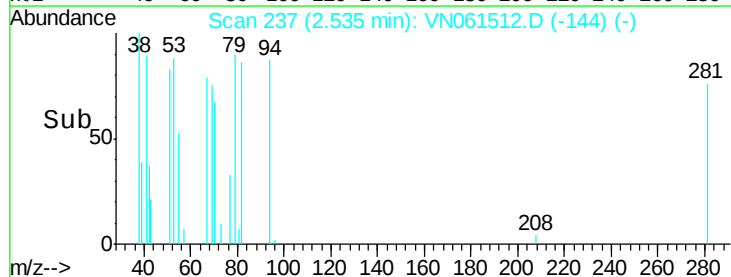
300

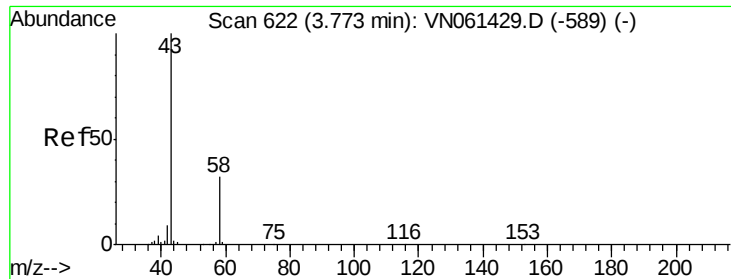
200

100

0

Time--> 2.50 2.52 2.54

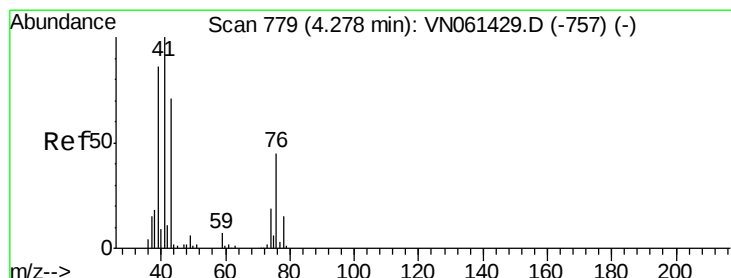
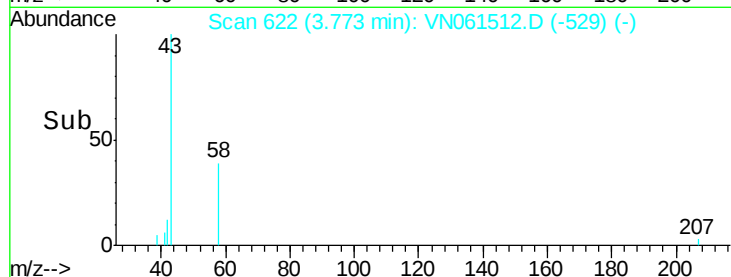
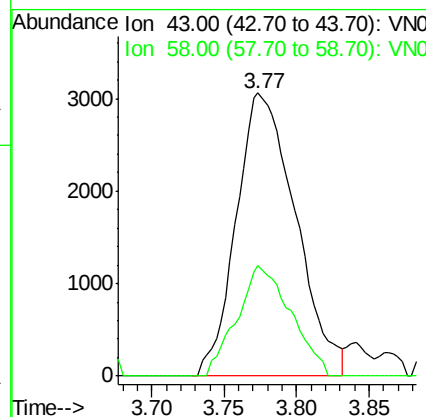
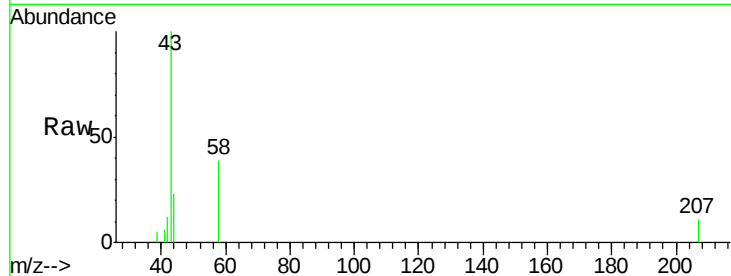




#16
Acetone
Concen: Below Cal
RT: 3.77 min Scan# 622
Delta R.T. 0.00 min
Lab File: VN061512.D
Acq: 20 May 2020 19:47

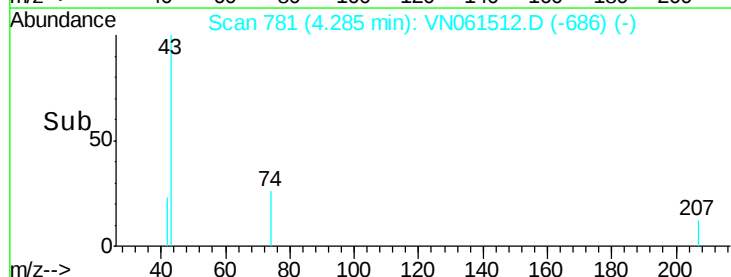
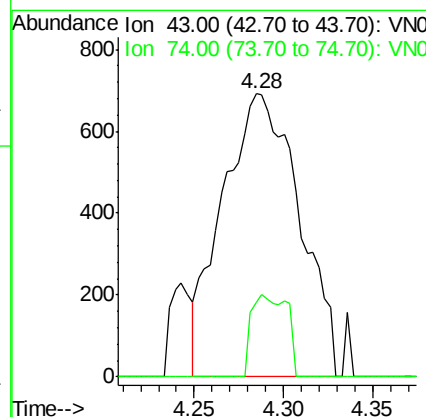
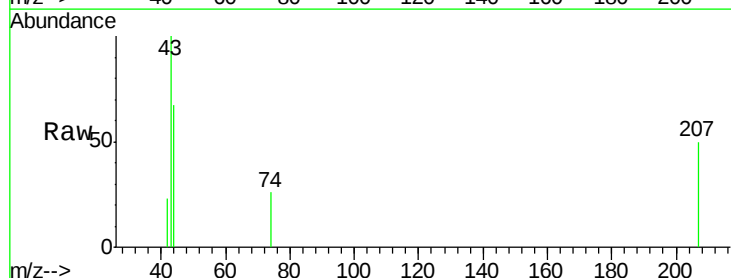
Instrument :
MSVOA_N
ClientSampled :

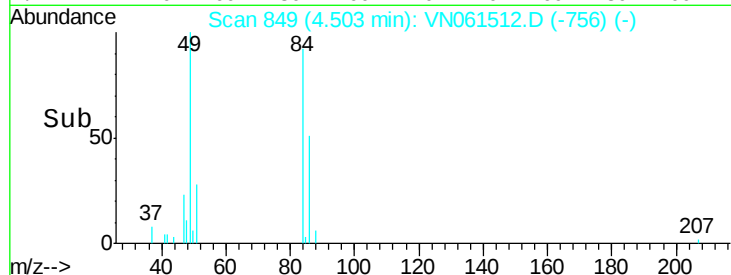
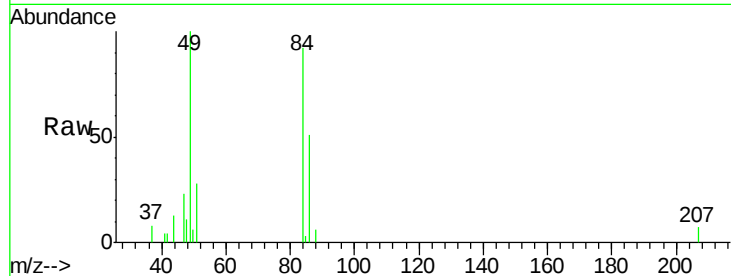
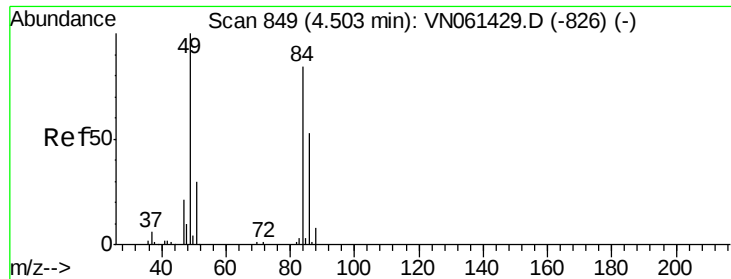
Tot Ion: 43 Resp: 8690
Ion Ratio Lower Upper
43 100
58 39.0 25.6 38.4#



#18
Methyl Acetate
Concen: Below Cal
RT: 4.28 min Scan# 781
Delta R.T. 0.01 min
Lab File: VN061512.D
Acq: 20 May 2020 19:47

Tgt Ion: 43 Resp: 2078
Ion Ratio Lower Upper
43 100
74 13.4 20.8 31.2#

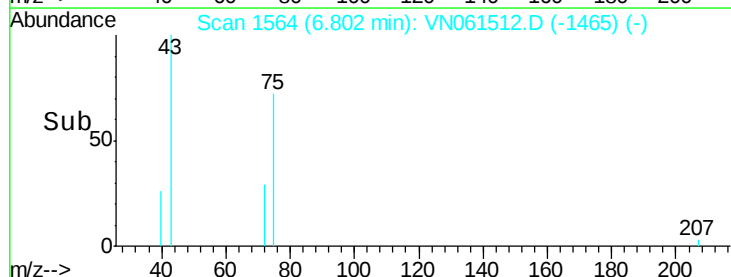
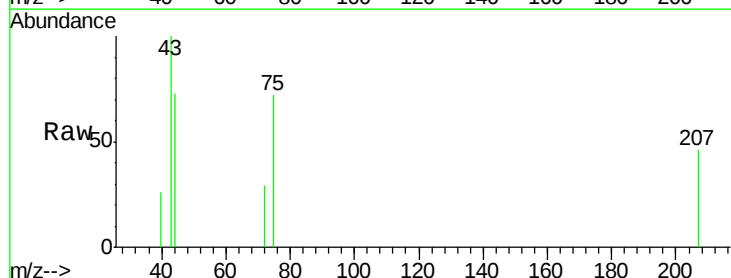
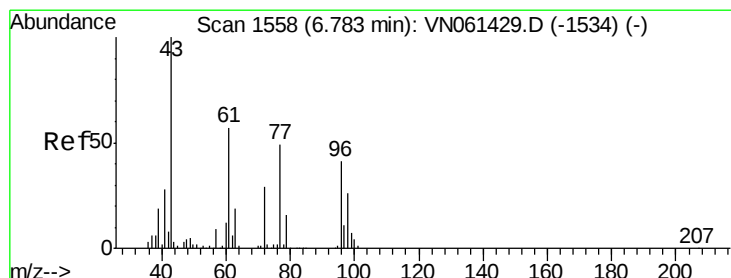
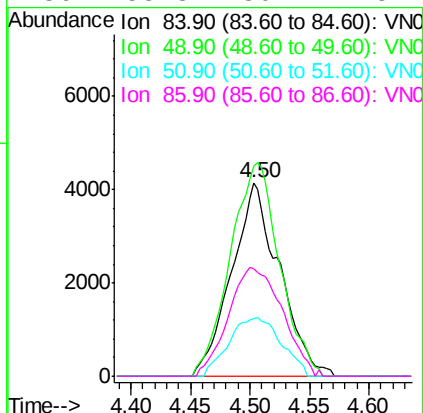




#20
Methvlene Chloride
Concen: 3.473 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN061512.D
Acq: 20 May 2020 19:47

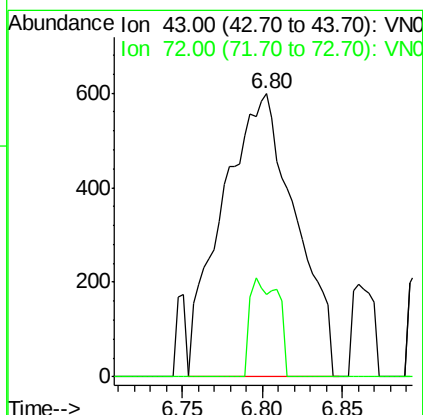
Instrument :
MSVOA_N
ClientSampleId :

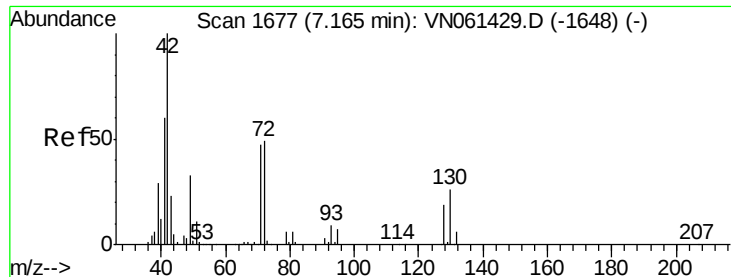
Tot Ion: 84 Resp: 11529
Ion Ratio Lower Upper
84 100
49 108.7 95.3 142.9
51 30.1 29.0 43.6
86 55.8 50.2 75.2



#25
2-Butanone
Concen: 1.027 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.02 min
Lab File: VN061512.D
Acq: 20 May 2020 19:47

Tgt Ion: 43 Resp: 1889
Ion Ratio Lower Upper
43 100
72 28.9 23.0 34.6

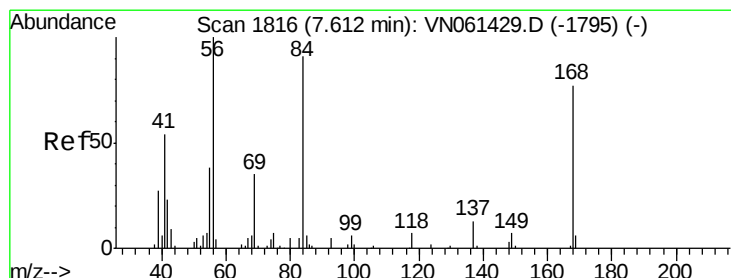
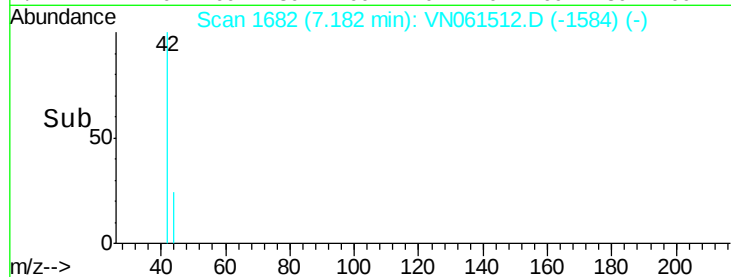
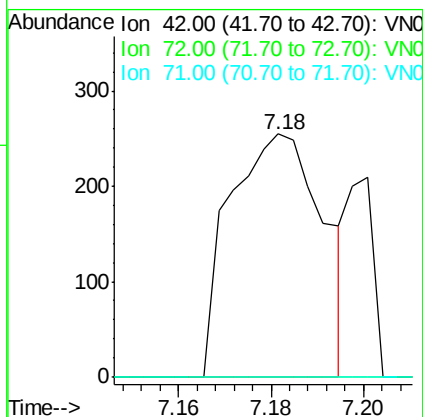
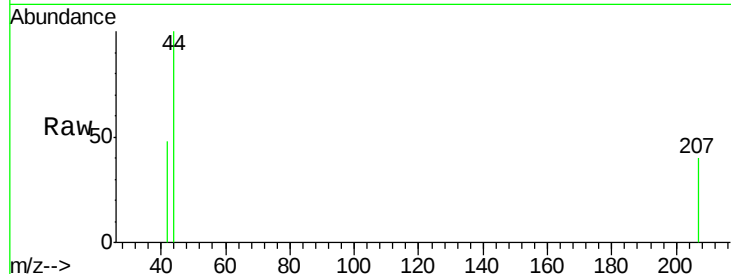




#29
Tetrahydrofuran
Concen: 0.292 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.02 min
Lab File: VN061512.D
Acq: 20 May 2020 19:47

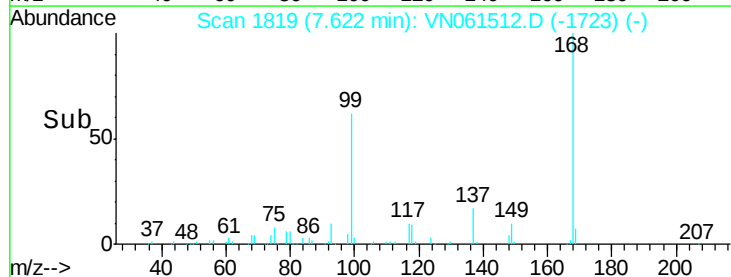
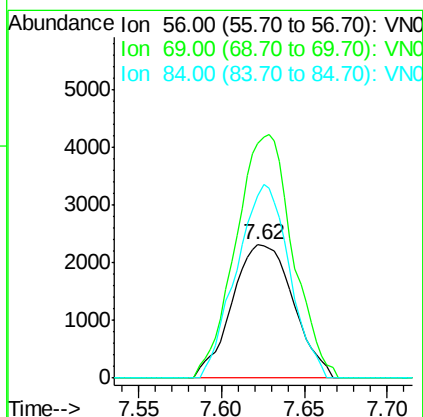
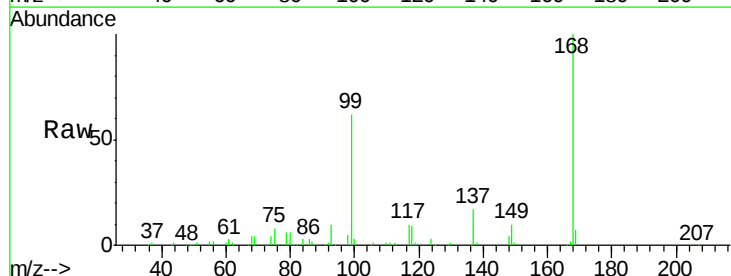
Instrument :
MSVOA_N
ClientSampleId :

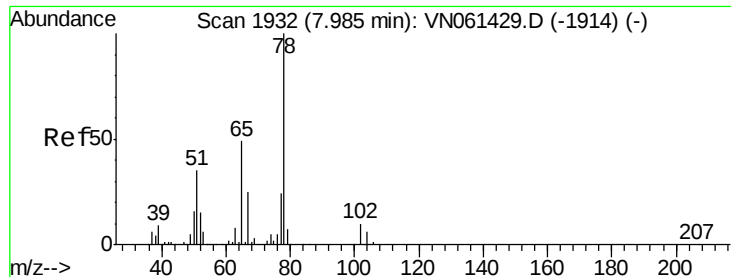
Tot Ion: 42 Resp: 356
Ion Ratio Lower Upper
42 100
72 0.0 39.0 58.6#
71 0.0 36.9 55.3#



#31
Cyclohexane
Concen: Below Cal
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN061512.D
Acq: 20 May 2020 19:47

Tgt Ion: 56 Resp: 5947
Ion Ratio Lower Upper
56 100
69 176.5 27.8 41.6#
84 136.9 72.7 109.1#

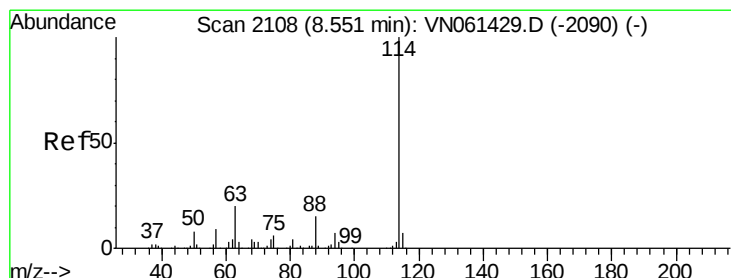
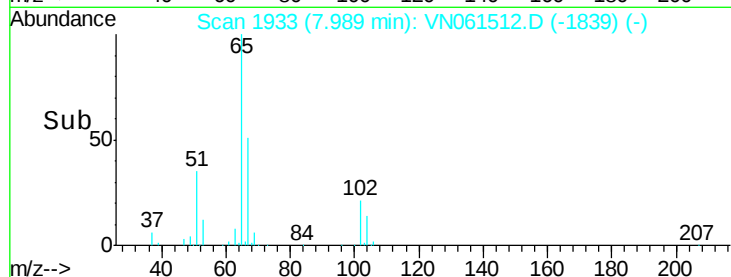
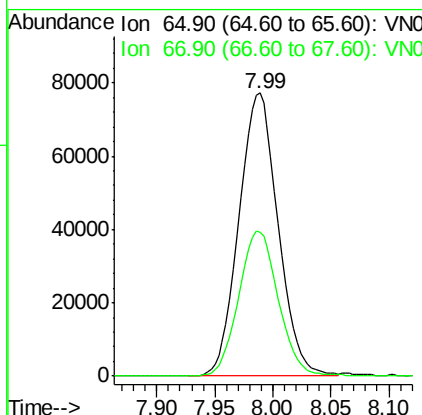
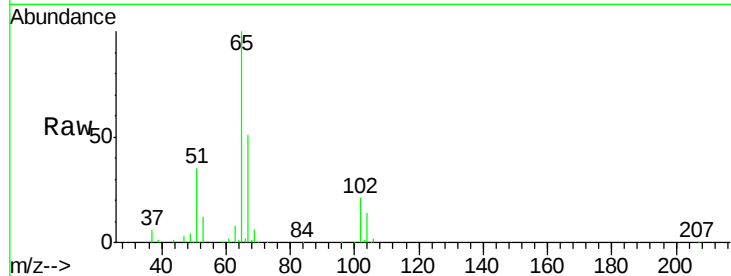




#33
 1,2-Dichloroethane-d4
 Concen: 44.941 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN061512.D
 Acq: 20 May 2020 19:47

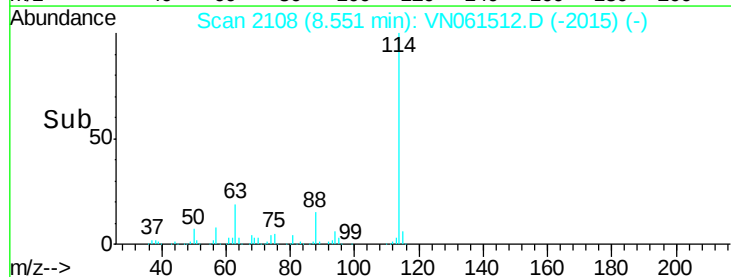
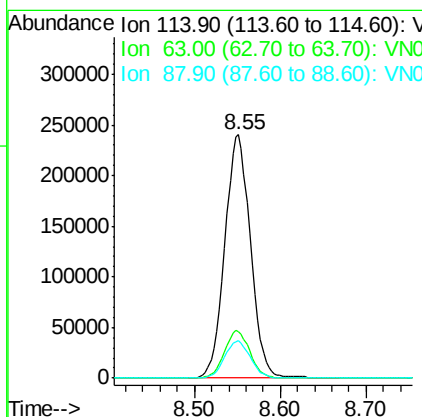
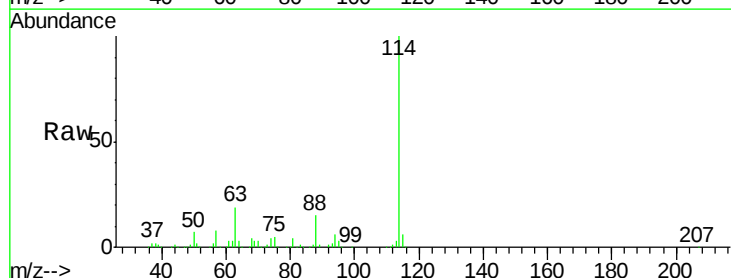
Instrument :
 MSVOA_N
 ClientSampleId :

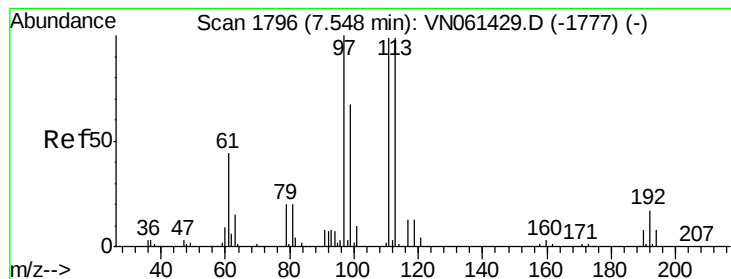
Tot Ion: 65 Resp: 181516
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061512.D
 Acq: 20 May 2020 19:47

Tgt Ion: 114 Resp: 498854
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 40.8
 88 15.2 0.0 30.8





#35

Dibromofluoromethane

Concen: 51.188 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VN061512.D

Acq: 20 May 2020 19:47

Instrument :
MSVOA_N
ClientSampleId :

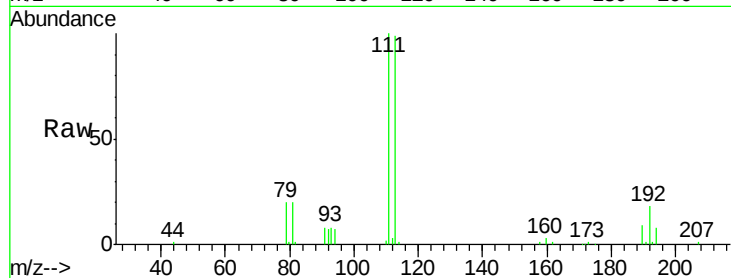
Tot Ion:113 Resp: 133773

Ion Ratio Lower Upper

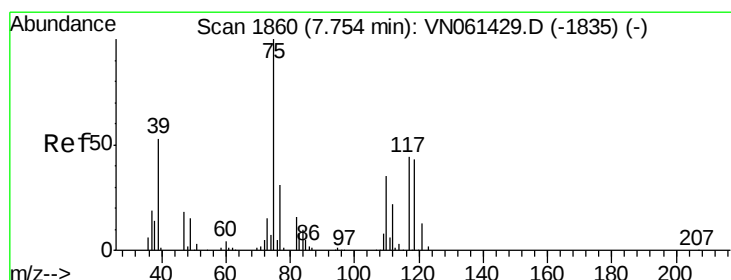
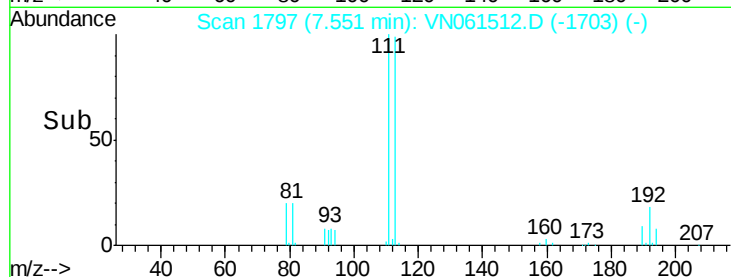
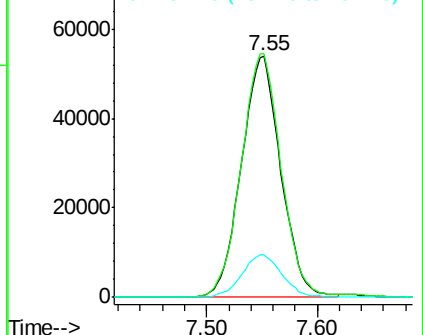
113 100

111 101.8 80.6 121.0

192 17.8 13.2 19.8



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: 4.565 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN061512.D

Acq: 20 May 2020 19:47

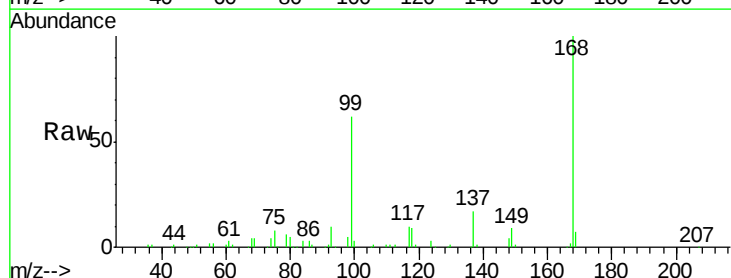
Tgt Ion: 75 Resp: 21294

Ion Ratio Lower Upper

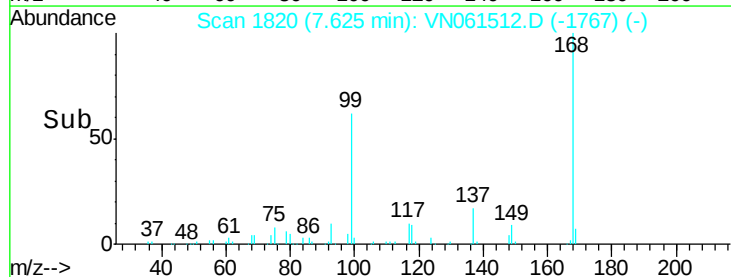
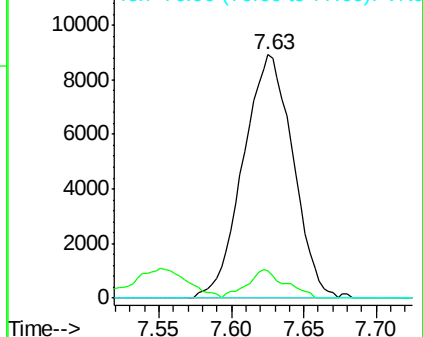
75 100

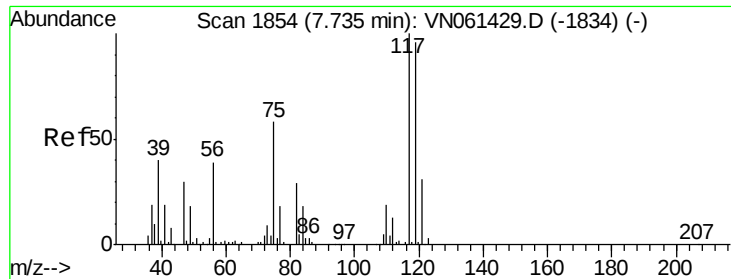
110 9.0 17.3 51.9#

77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.660 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061512.D

Acq: 20 May 2020 19:47

Instrument :

MSVOA_N

ClientSampled :

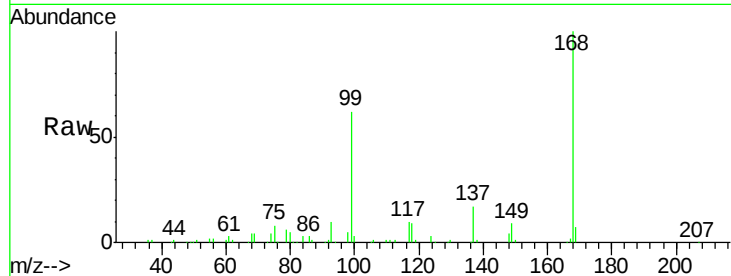
Tot Ion:117 Resp: 28606

Ion Ratio Lower Upper

117 100

119 5.4 77.0 115.6#

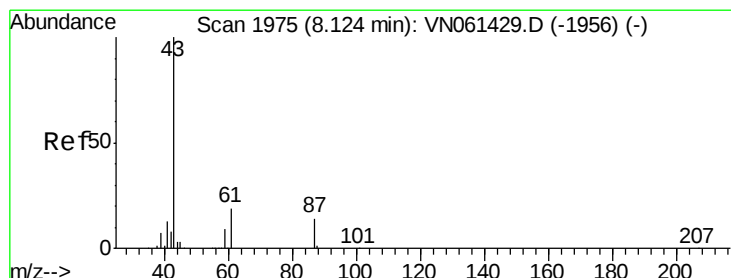
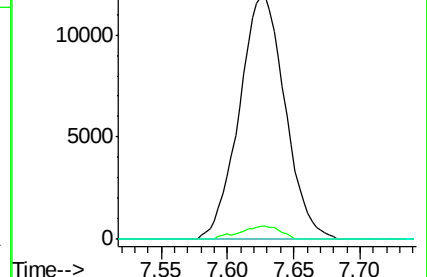
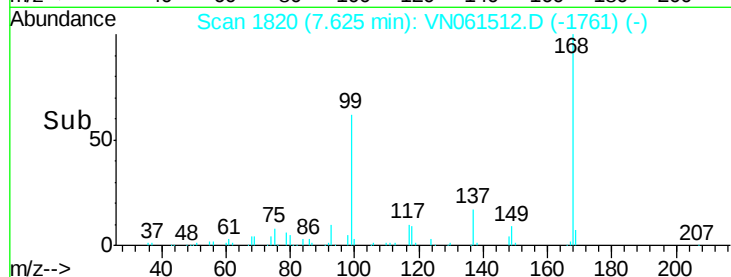
121 0.0 24.7 37.1#



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



#43

Isopropyl Acetate

Concen: 10.472 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. 0.00 min

Lab File: VN061512.D

Acq: 20 May 2020 19:47

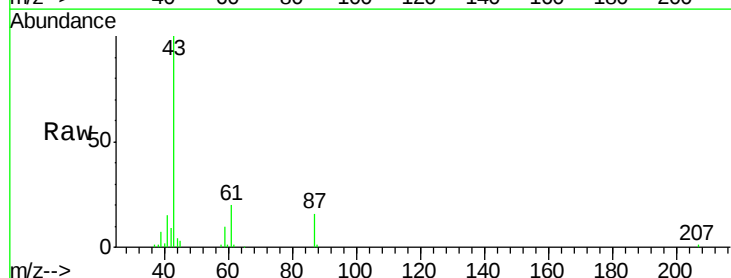
Tgt Ion: 43 Resp: 77262

Ion Ratio Lower Upper

43 100

61 20.3 23.0 34.4#

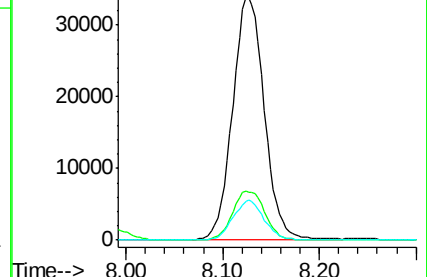
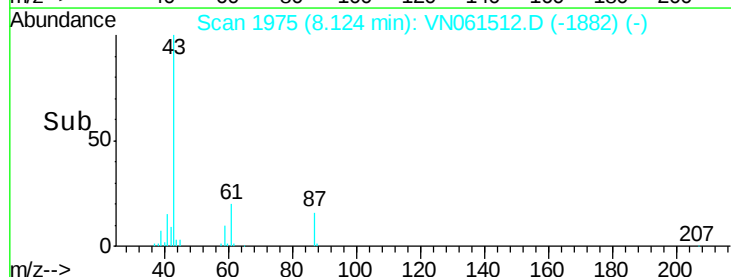
87 15.9 11.6 17.4

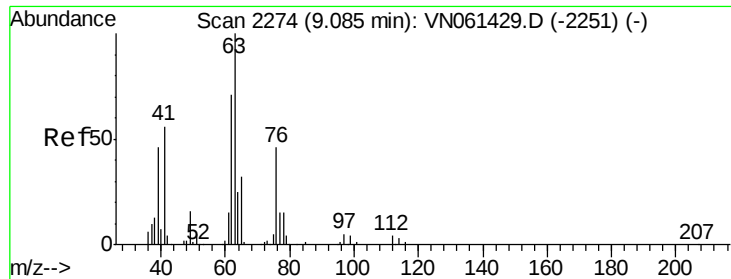


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.475 ug/l

RT: 9.24 min Scan# 2322

Delta R.T. 0.15 min

Lab File: VN061512.D

Acq: 20 May 2020 19:47

Instrument :

MSVOA_N

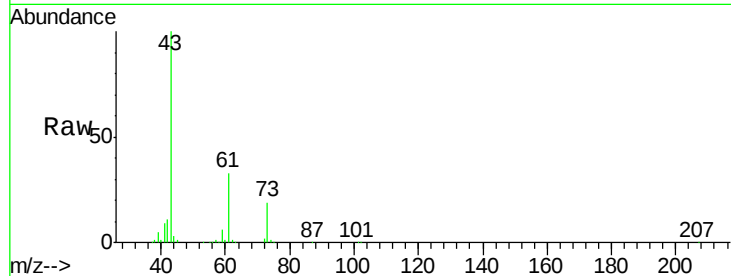
ClientSampleId :

Tot Ion: 63 Resp: 1671

Ion Ratio Lower Upper

63 100

65 0.0 25.2 37.8#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

9.24

800

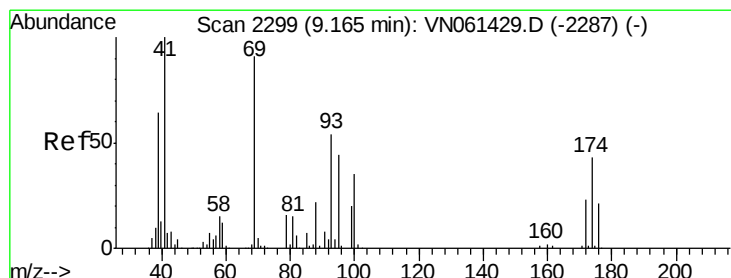
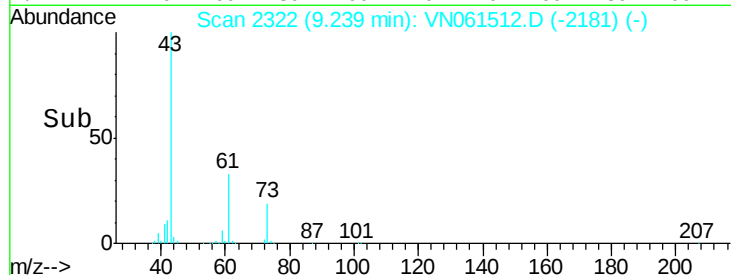
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.077 ug/l

RT: 9.14 min Scan# 2292

Delta R.T. -0.02 min

Lab File: VN061512.D

Acq: 20 May 2020 19:47

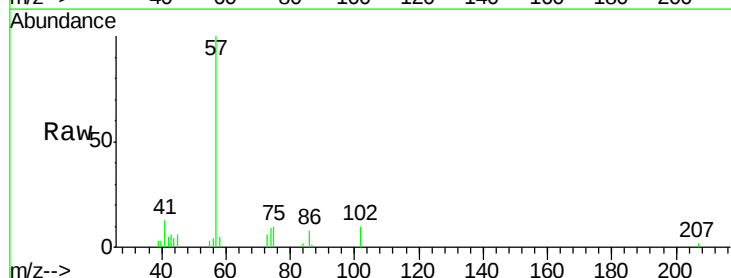
Tgt Ion: 41 Resp: 3670

Ion Ratio Lower Upper

41 100

69 0.0 75.3 112.9#

39 0.0 52.6 79.0#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

60000

50000

40000

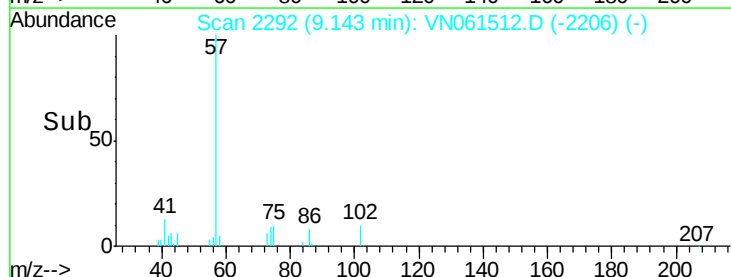
30000

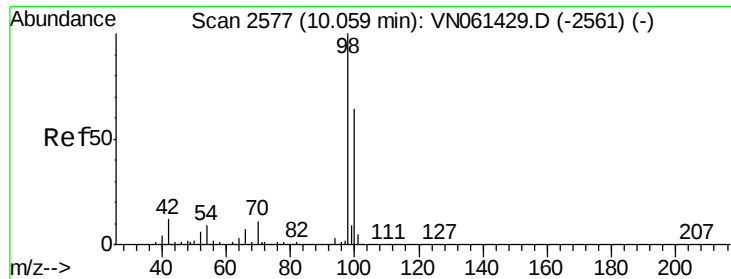
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 51.619 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061512.D

Acq: 20 May 2020 19:47

Instrument :

MSVOA_N

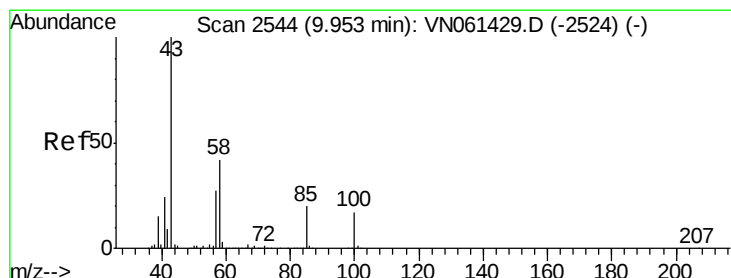
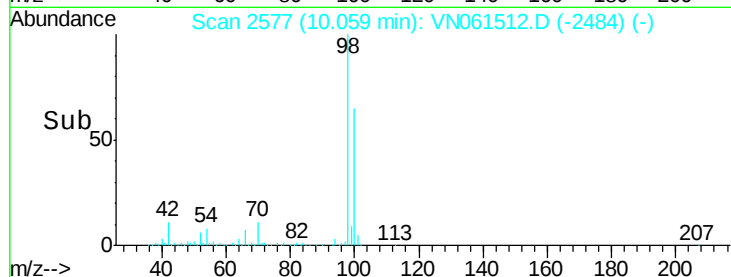
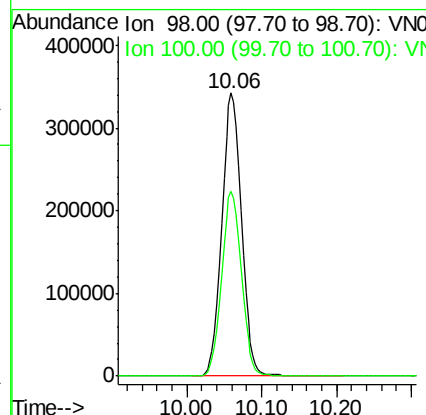
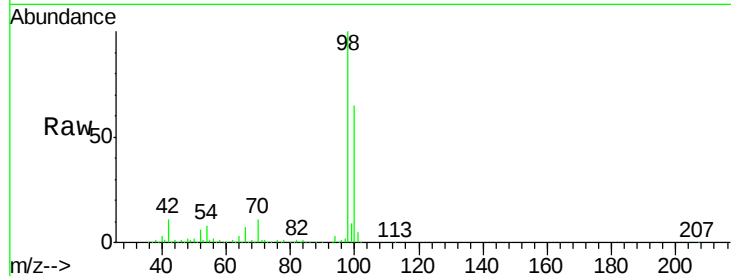
ClientSampleId :

Tot Ion: 98 Resp: 625695

Ion Ratio Lower Upper

98 100

100 65.4 51.8 77.8



#51

4-Methyl-2-Pentanone

Concen: 1.630 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN061512.D

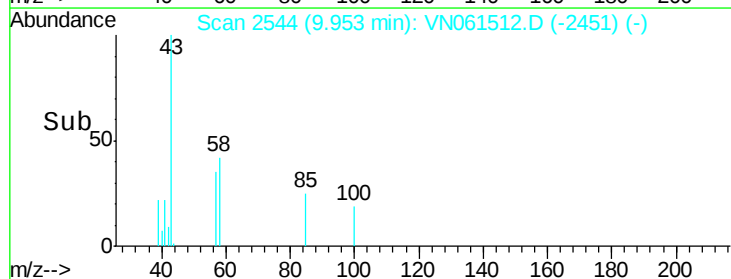
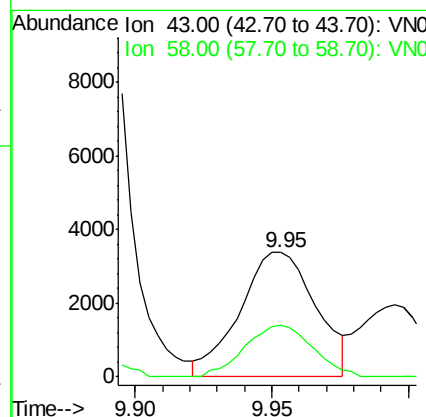
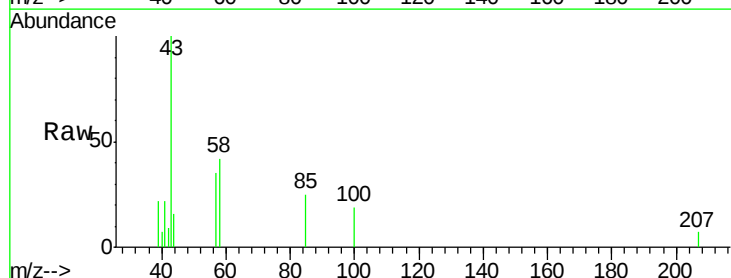
Acq: 20 May 2020 19:47

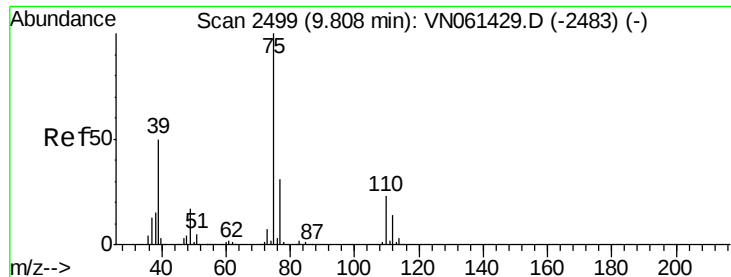
Tgt Ion: 43 Resp: 6552

Ion Ratio Lower Upper

43 100

58 37.2 33.4 50.2





#54

cis-1,3-Dichloropropene

Concen: 6.875 ug/l

RT: 9.87 min Scan# 2519

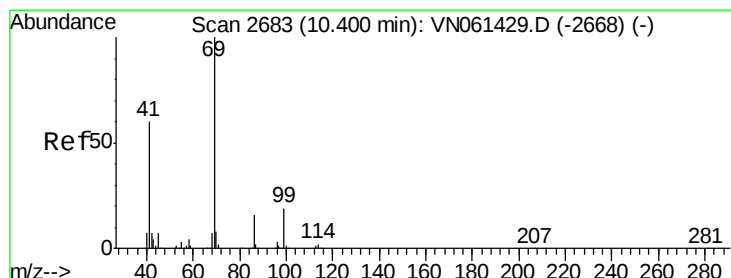
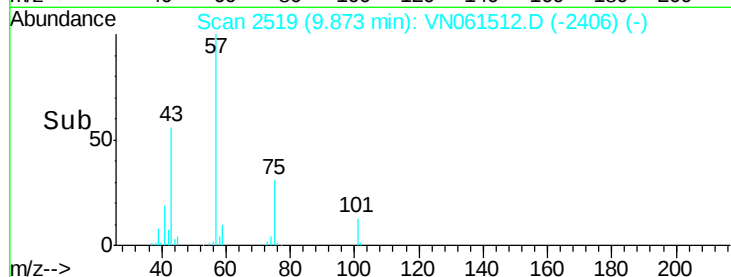
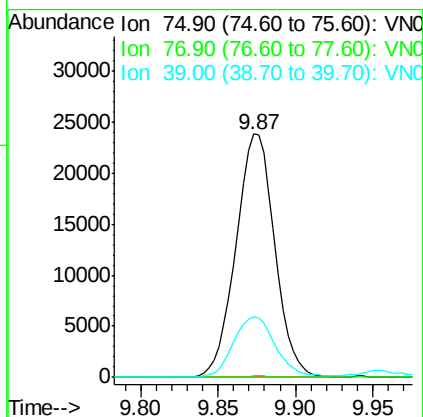
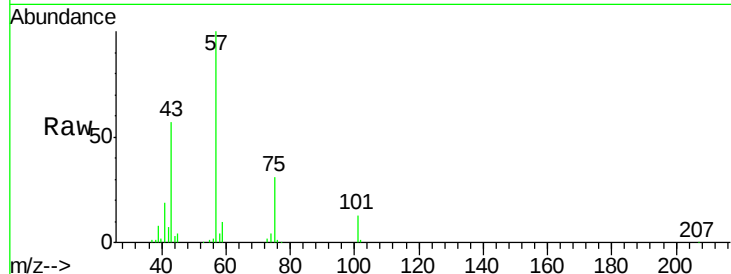
Delta R.T. 0.06 min

Lab File: VN061512.D

Acq: 20 May 2020 19:47

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	75	Resp:	41626
Ion	Ratio	Lower	Upper
75	100		
77	0.7	24.8	37.2#
39	25.0	39.8	59.6#



#56

Ethyl methacrylate

Concen: 0.243 ug/l

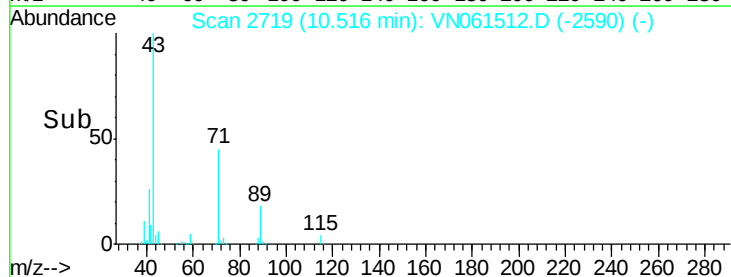
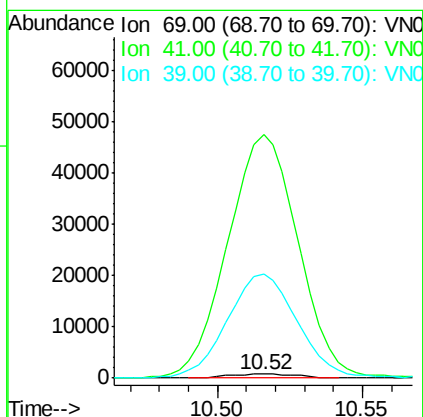
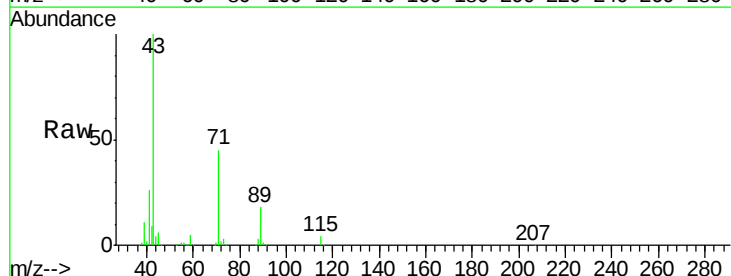
RT: 10.52 min Scan# 2719

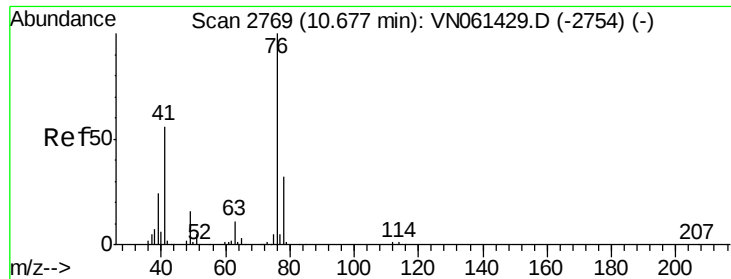
Delta R.T. 0.12 min

Lab File: VN061512.D

Acq: 20 May 2020 19:47

Tgt Ion:	69	Resp:	1298
Ion	Ratio	Lower	Upper
69	100		
41	6193.3	48.3	72.5#
39	2633.3	30.2	45.2#

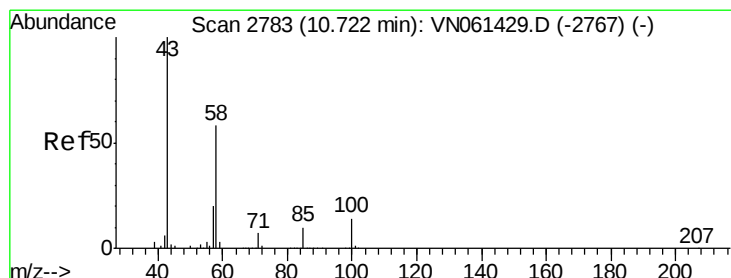
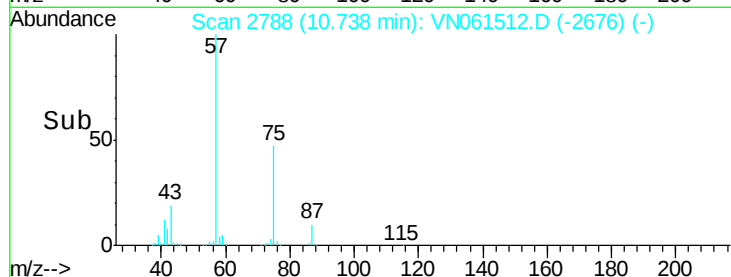
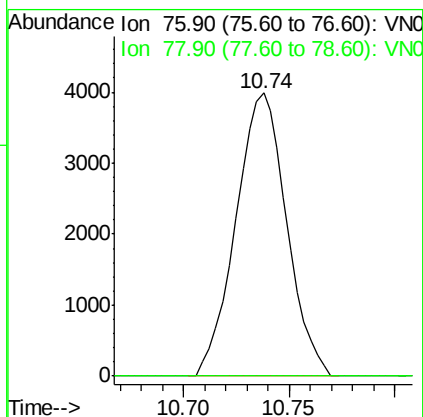
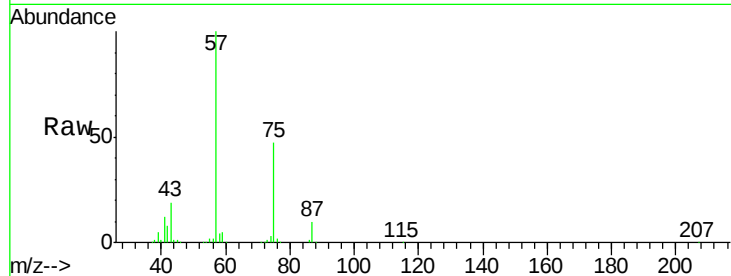




#57
 1,3-Dichloropropane
 Concen: 1.128 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN061512.D
 Acq: 20 May 2020 19:47

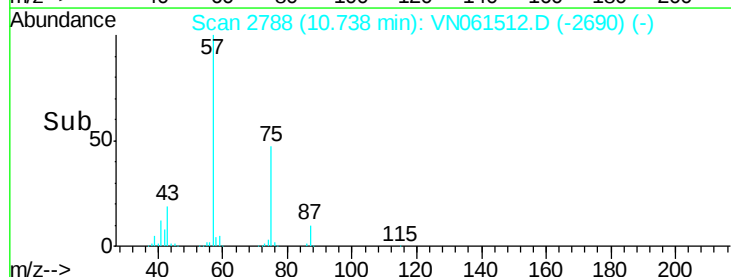
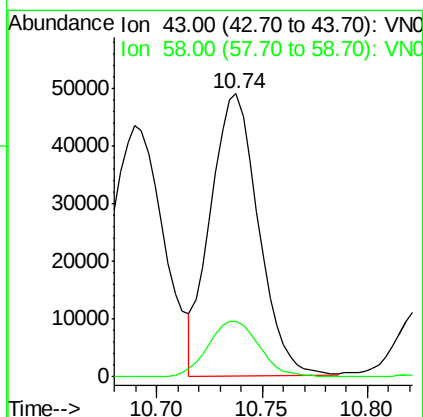
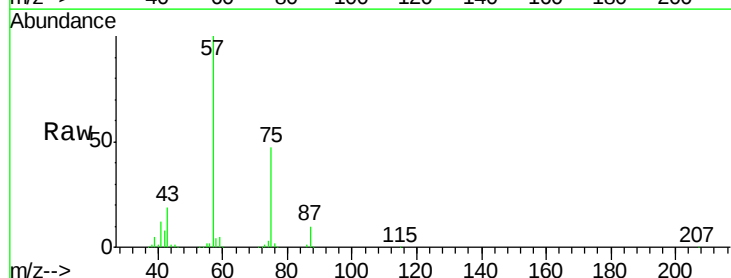
Instrument :
 MSVOA_N
 ClientSampled :

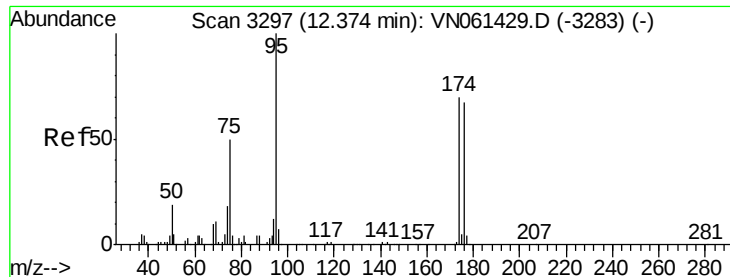
Tot Ion: 76 Resp: 6653
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



#59
 2-Hexanone
 Concen: 26.646 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN061512.D
 Acq: 20 May 2020 19:47

Tgt Ion: 43 Resp: 77482
 Ion Ratio Lower Upper
 43 100
 58 21.1 29.2 87.6#

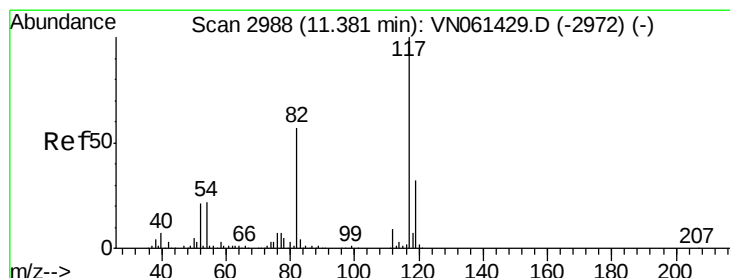
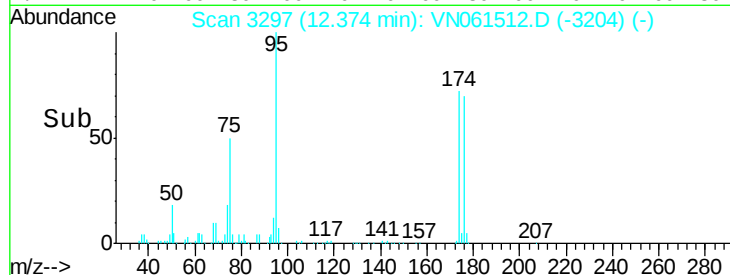
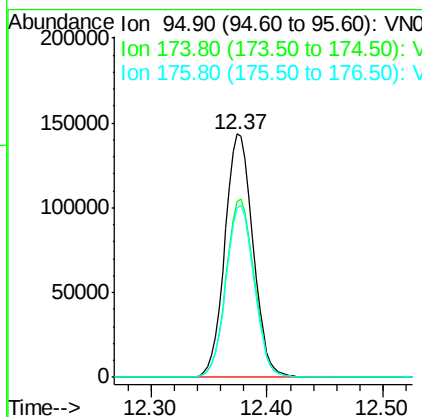
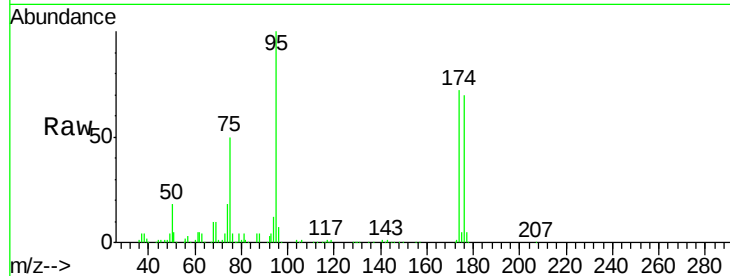




#62
4-Bromofluorobenzene
Concen: 53.449 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.00 min
Lab File: VN061512.D
Acq: 20 May 2020 19:47

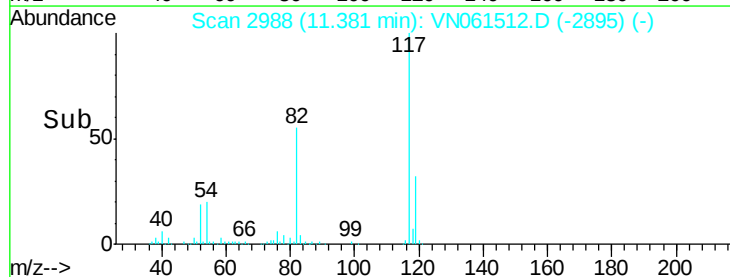
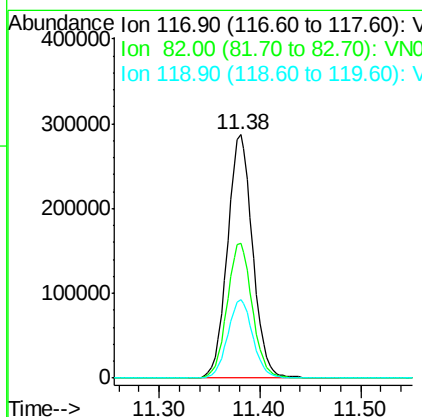
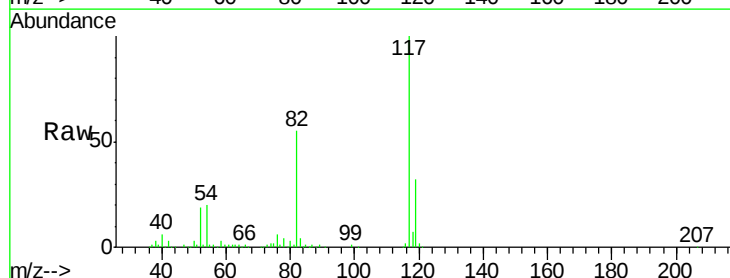
Instrument :
MSVOA_N
ClientSampleId :

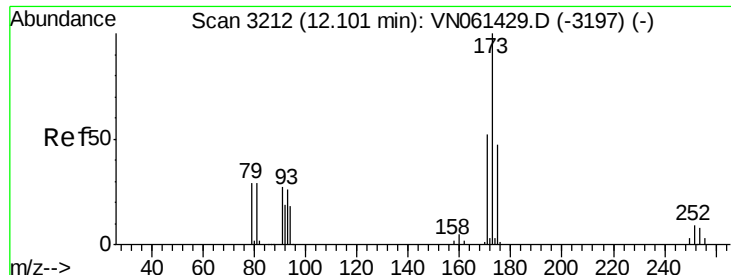
Tot Ion	95	Resp	242052
Ion Ratio	Lower	Upper	
95	100		
174	73.4	0.0	141.2
176	70.6	0.0	137.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061512.D
Acq: 20 May 2020 19:47

Tgt Ion	117	Resp	499826
Ion Ratio	Lower	Upper	
117	100		
82	55.4	45.2	67.8
119	32.2	25.3	37.9





#71

Bromoform

Concen: 2.527 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061512.D

Acq: 20 May 2020 19:47

Instrument :

MSVOA_N

ClientSampleId :

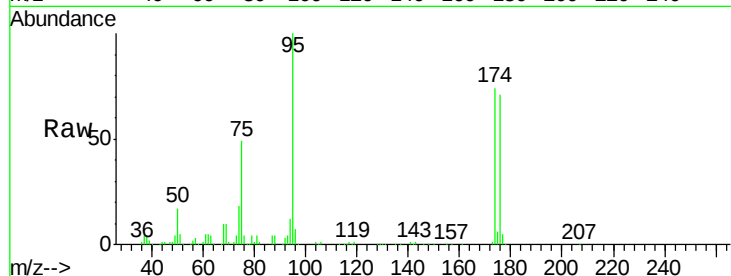
Tot Ion:173 Resp: 1500

Ion Ratio Lower Upper

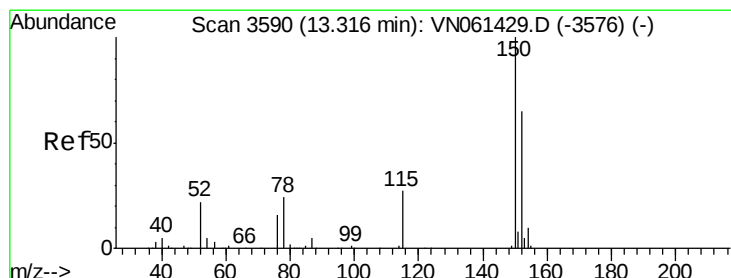
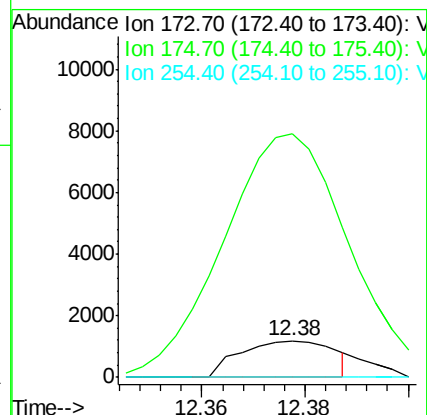
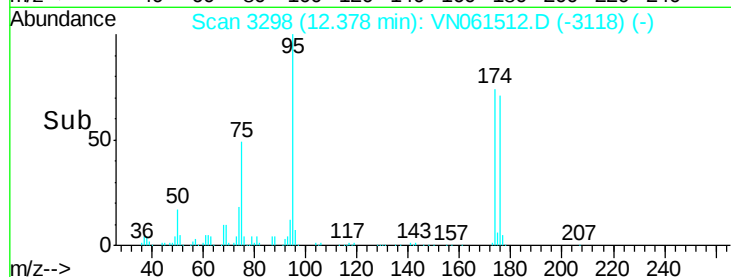
173 100

175 772.5 23.9 71.8#

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: 13.32 min Scan# 3590

Delta R.T. 0.00 min

Lab File: VN061512.D

Acq: 20 May 2020 19:47

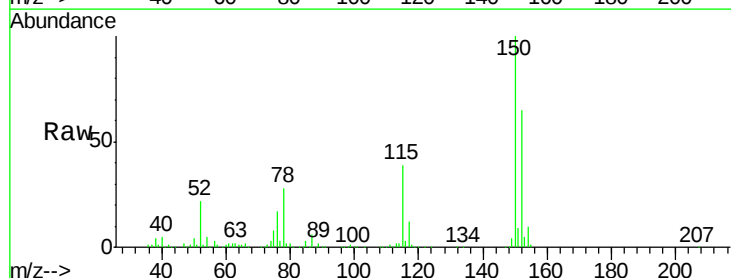
Tgt Ion:152 Resp: 221808

Ion Ratio Lower Upper

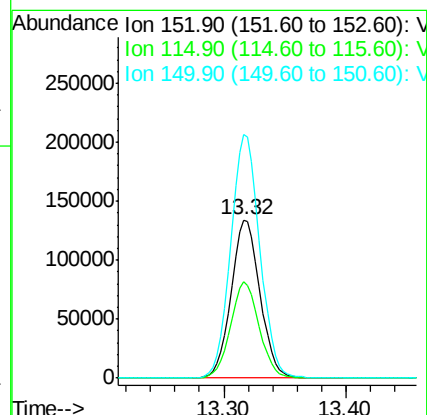
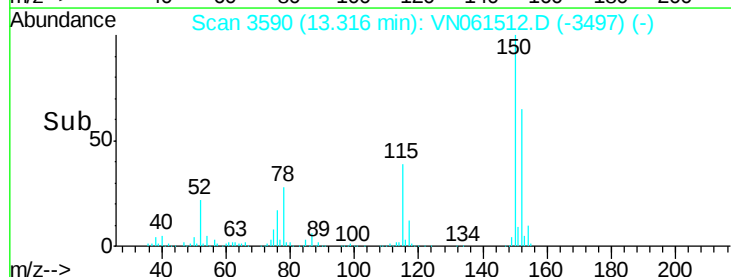
152 100

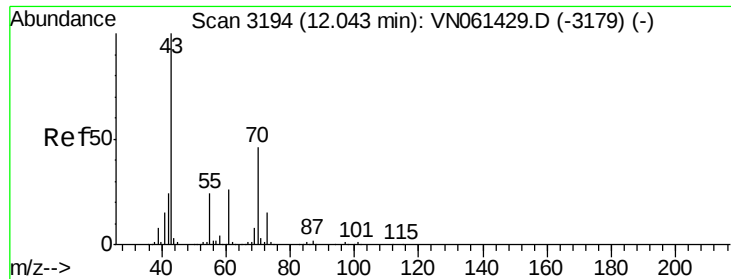
115 60.5 30.9 92.5

150 155.6 0.0 349.2



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-amvl acetate

Concen: 0.312 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061512.D

Acq: 20 May 2020 19:47

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2033

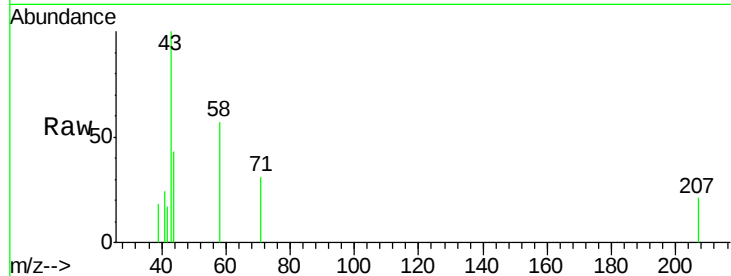
Ion Ratio Lower Upper

43 100

70 0.0 37.0 55.4#

55 3.2 19.5 29.3#

61 0.0 20.8 31.2#

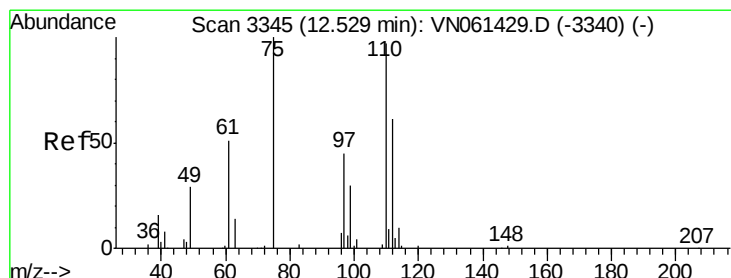
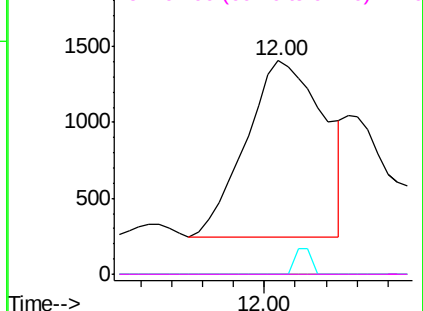
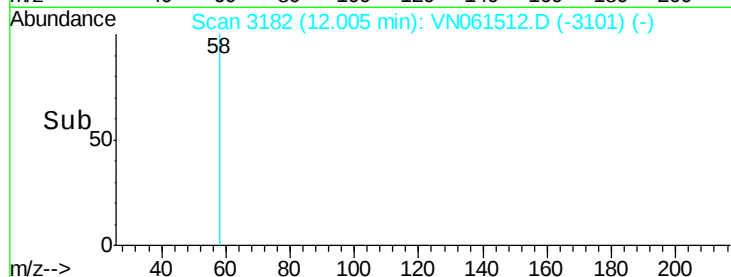


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 25.431 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061512.D

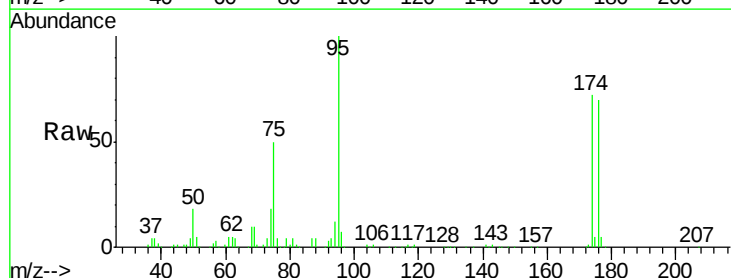
Acq: 20 May 2020 19:47

Tgt Ion: 75 Resp: 121035

Ion Ratio Lower Upper

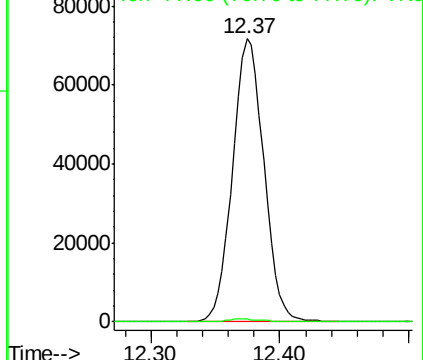
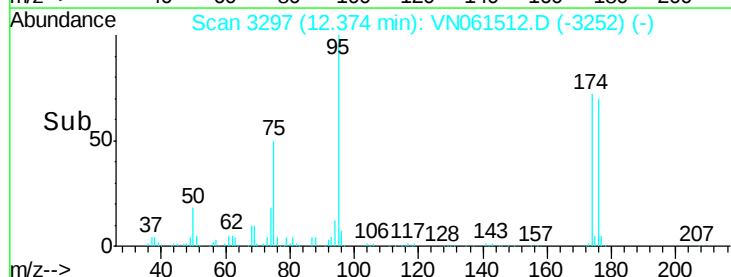
75 100

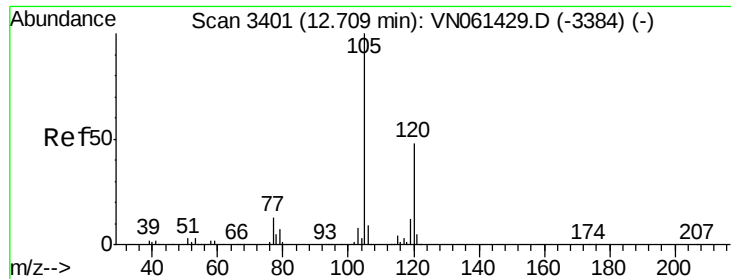
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.259 ug/l

RT: 12.71 min Scan# 3400

Delta R.T. -0.00 min

Lab File: VN061512.D

Acq: 20 May 2020 19:47

Instrument :

MSVOA_N

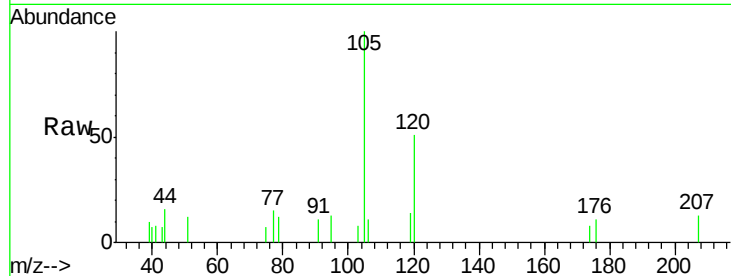
ClientSampled :

Tot Ion:105 Resp: 3771

Ion Ratio Lower Upper

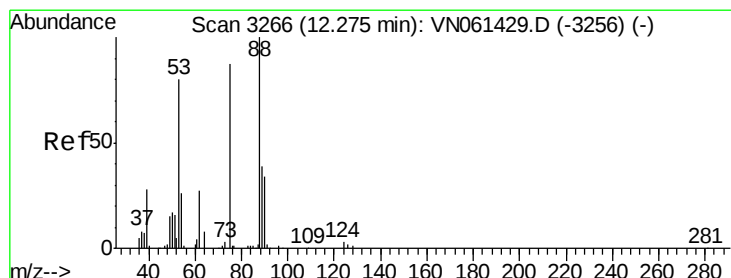
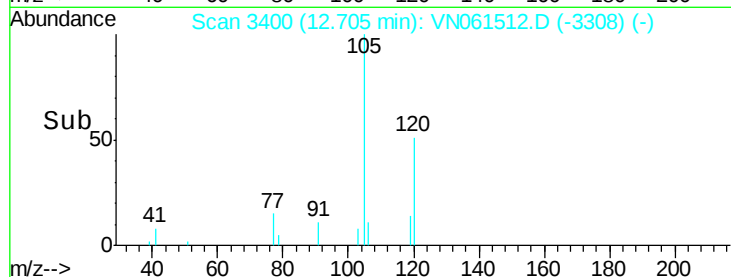
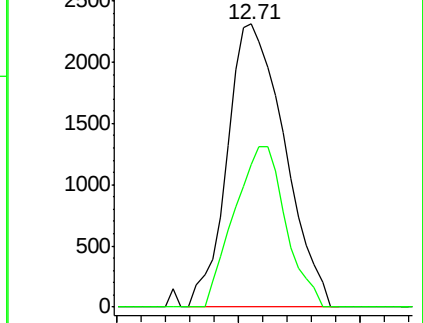
105 100

120 50.8 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 67.461 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061512.D

Acq: 20 May 2020 19:47

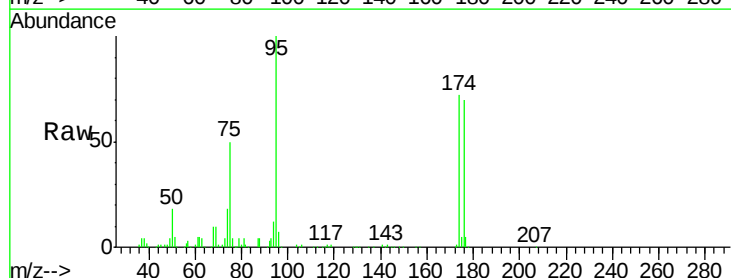
Tgt Ion: 75 Resp: 121035

Ion Ratio Lower Upper

75 100

53 0.0 75.2 112.8#

89 0.0 38.2 57.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

