

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052920\
 Data File : VN061569.D
 Acq On : 29 May 2020 15:59
 Operator : JC/MD
 Sample : PB129155ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 30 04:43:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	271729	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	493625	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	496865	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	223149	50.00	ug/l	0.00

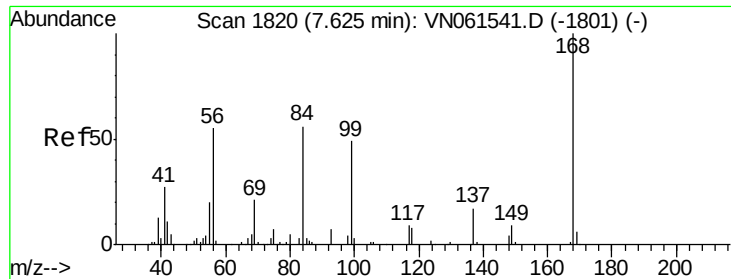
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	178028	54.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.98%	
35) Dibromofluoromethane	7.55	113	129912	51.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.76%	
50) Toluene-d8	10.06	98	620840	53.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.00%	
62) 4-Bromofluorobenzene	12.38	95	234816	55.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.92%	

Target Compounds

					Qvalue	
8) Diethyl Ether	3.38	74	1013	0.566	ug/l	85
11) Tert butyl alcohol	4.73	59	326	0.757	ug/l #	72
16) Acetone	3.78	43	12440	7.938	ug/l	100
18) Methyl Acetate	4.29	43	1917	0.654	ug/l #	77
20) Methylene Chloride	4.50	84	5045	Below Cal		89
25) 2-Butanone	6.79	43	4086	2.663	ug/l	90
29) Tetrahydrofuran	7.17	42	380	0.376	ug/l #	37
31) Cyclohexane	7.63	56	5887	1.290	ug/l #	25
36) 1,1-Dichloropropene	7.63	75	21496	4.919	ug/l #	42
37) Ethyl Acetate	6.79	43	4086	1.161	ug/l #	66
38) Carbon Tetrachloride	7.63	117	29003	6.881	ug/l #	15
43) Isopropyl Acetate	8.13	43	68692	10.848	ug/l #	90
45) 1,2-Dichloropropane	9.24	63	1782	0.557	ug/l #	44
48) Methyl methacrylate	9.15	41	3771	1.324	ug/l #	5
51) 4-Methyl-2-Pentanone	9.96	43	5684	1.593	ug/l	99
54) cis-1,3-Dichloropropene	9.88	75	35300	6.264	ug/l #	63
56) Ethyl methacrylate	10.52	69	1144	0.234	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	6373	1.137	ug/l #	42
59) 2-Hexanone	10.74	43	70734	27.601	ug/l #	49
71) Bromoform	12.37	173	1802	0.608	ug/l #	1
74) N-amyl acetate	12.00	43	4461	0.870	ug/l #	42
76) 1,2,3-Trichloropropane	12.38	75	116631	28.743	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3927	0.288	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.38	75	116631	73.504	ug/l #	15

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061569.D

Acq: 29 May 2020 15:59

Instrument :

MSVOA_N

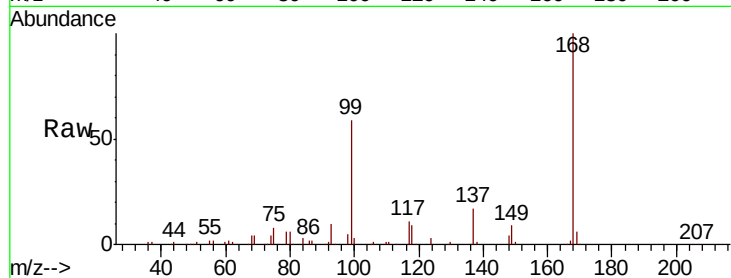
ClientSampled :

Tot Ion:168 Resp: 271729

Ion Ratio Lower Upper

168 100

99 58.8 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

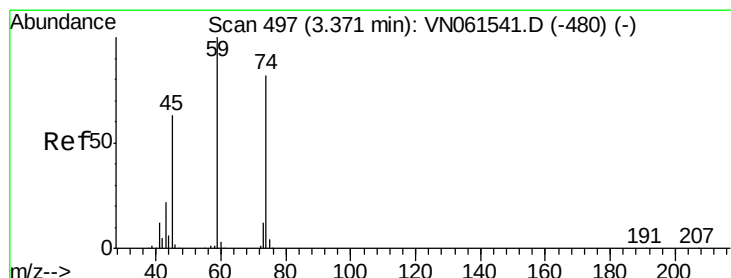
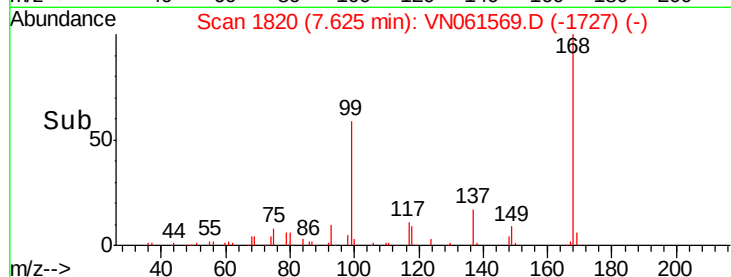
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#8

Diethyl Ether

Concen: 0.566 ug/l

RT: 3.38 min Scan# 499

Delta R.T. 0.01 min

Lab File: VN061569.D

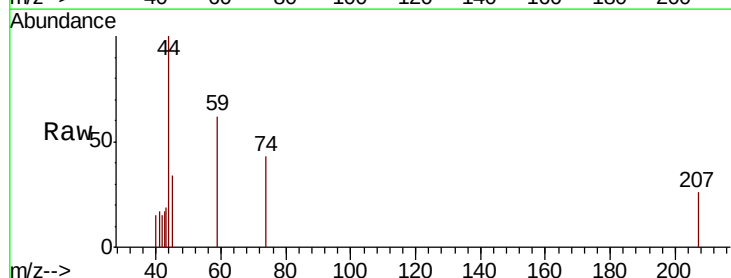
Acq: 29 May 2020 15:59

Tgt Ion: 74 Resp: 1013

Ion Ratio Lower Upper

74 100

45 93.0 39.9 119.7



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0

3.38

500

400

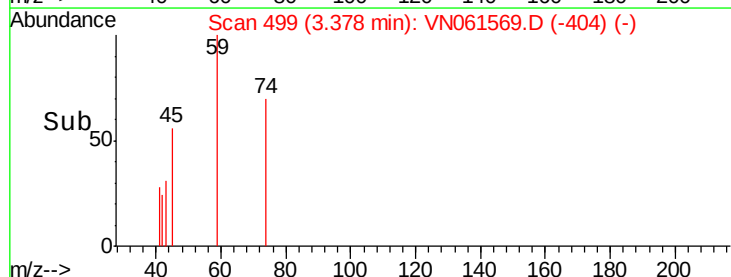
300

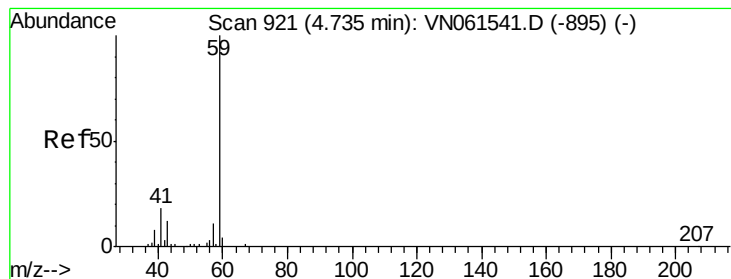
200

100

0

Time--> 3.35 3.40





#11

Tert butyl alcohol

Concen: 0.757 ug/l

RT: 4.73 min Scan# 920

Delta R.T. -0.00 min

Lab File: VN061569.D

Acq: 29 May 2020 15:59

Instrument :

MSVOA_N

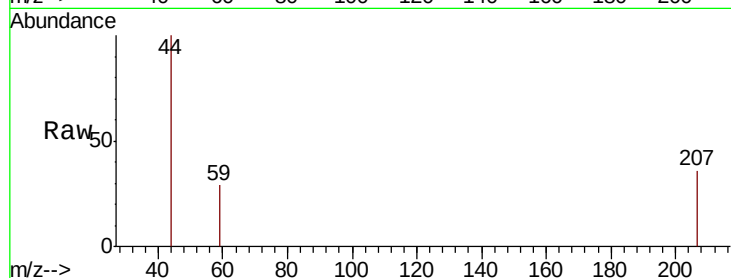
ClientSampled :

Tot Ion: 59 Resp: 326

Ion Ratio Lower Upper

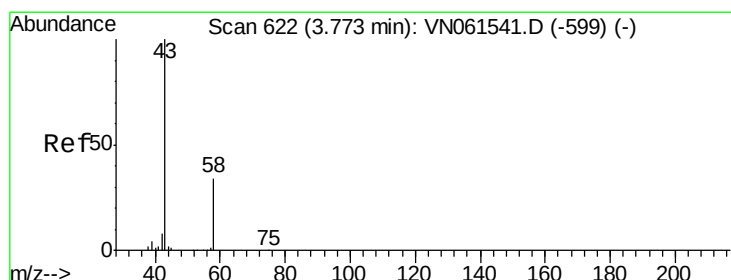
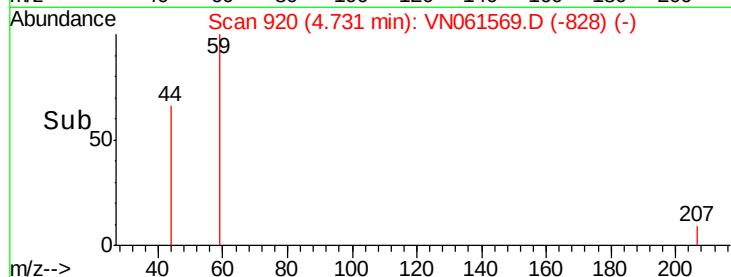
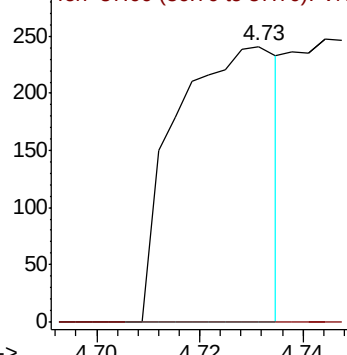
59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#16

Acetone

Concen: 7.938 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN061569.D

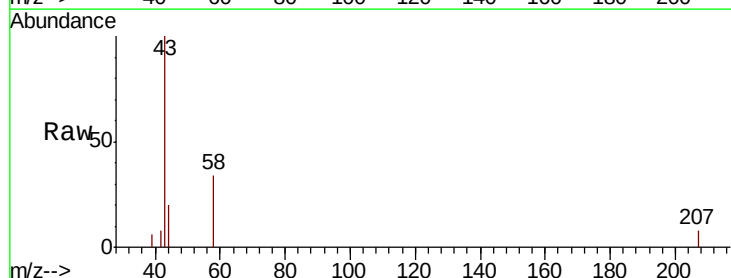
Acq: 29 May 2020 15:59

Tgt Ion: 43 Resp: 12440

Ion Ratio Lower Upper

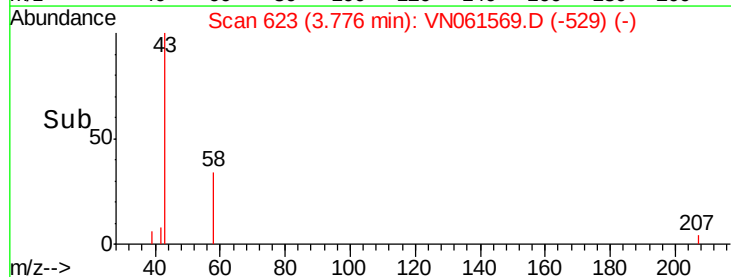
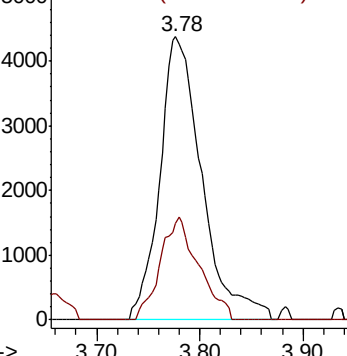
43 100

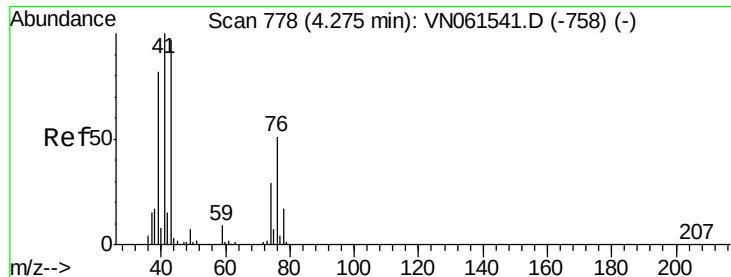
58 34.2 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

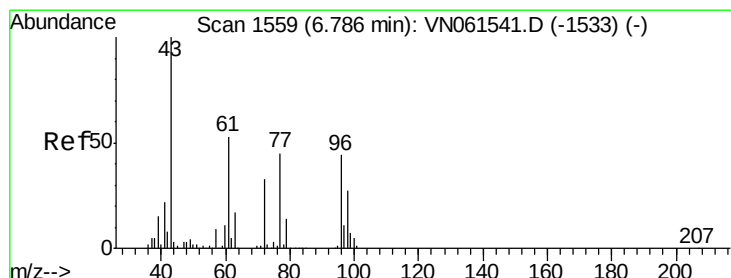
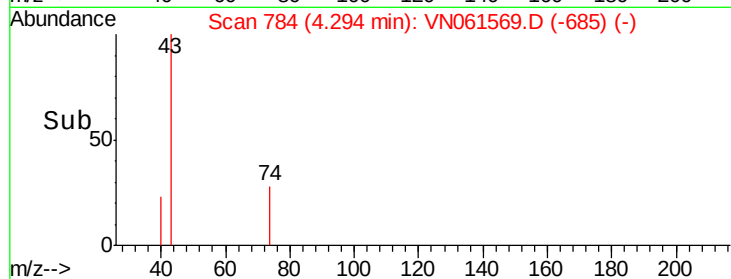
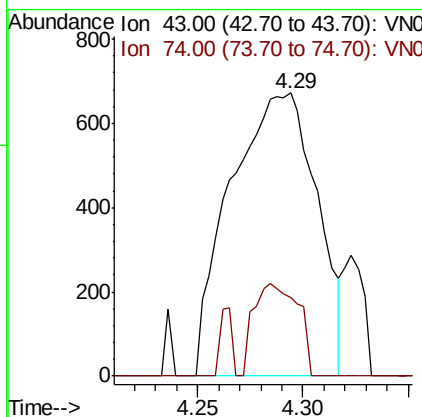
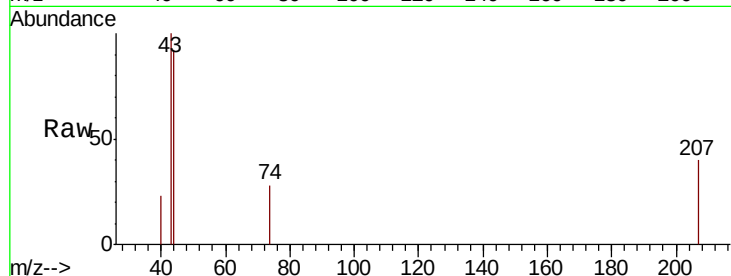




#18
Methyl Acetate
Concen: 0.654 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.02 min
Lab File: VN061569.D
Acq: 29 May 2020 15:59

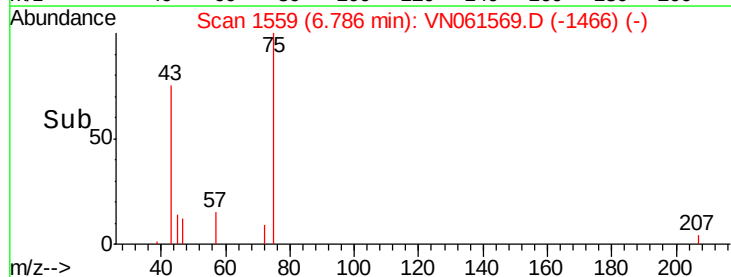
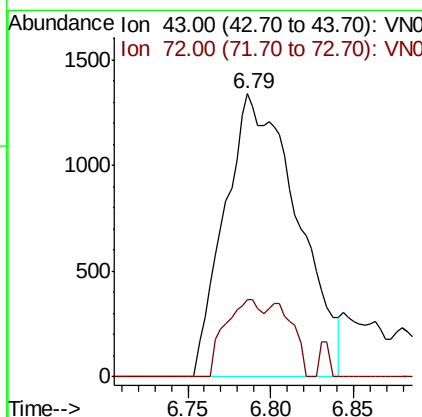
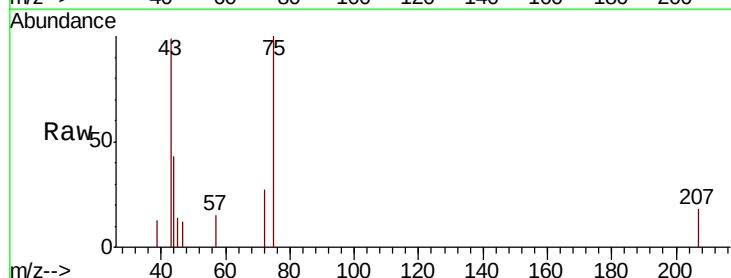
Instrument :
MSVOA_N
ClientSampled :

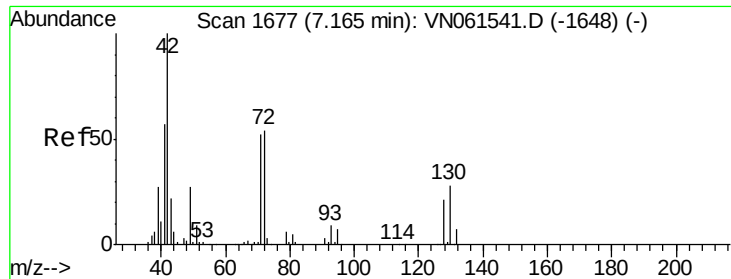
Tot Ion: 43 Resp: 1917
Ion Ratio Lower Upper
43 100
74 16.8 23.2 34.8#



#25
2-Butanone
Concen: 2.663 ug/l
RT: 6.79 min Scan# 1559
Delta R.T. -0.00 min
Lab File: VN061569.D
Acq: 29 May 2020 15:59

Tgt Ion: 43 Resp: 4086
Ion Ratio Lower Upper
43 100
72 27.1 26.0 39.0

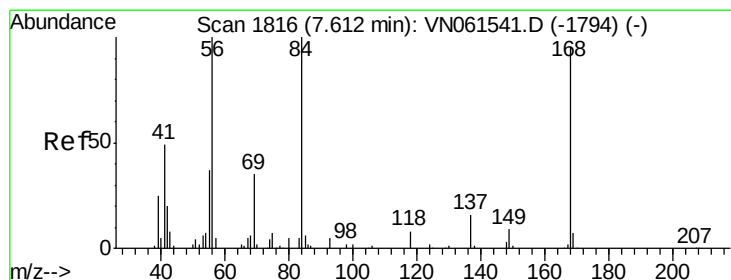
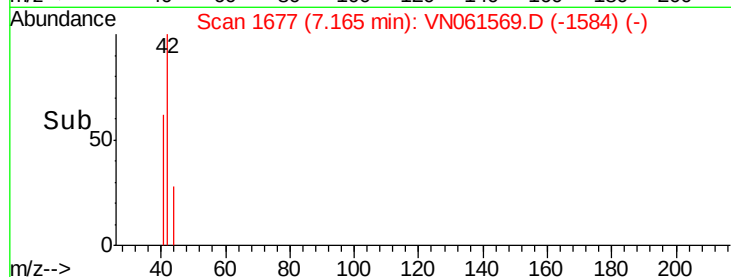
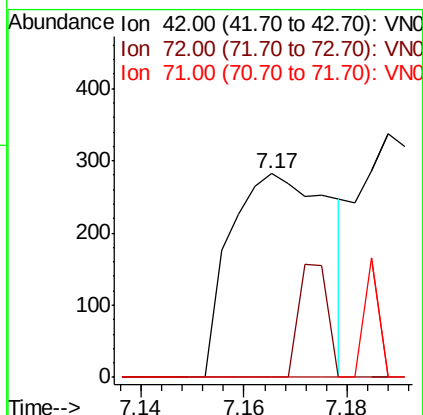
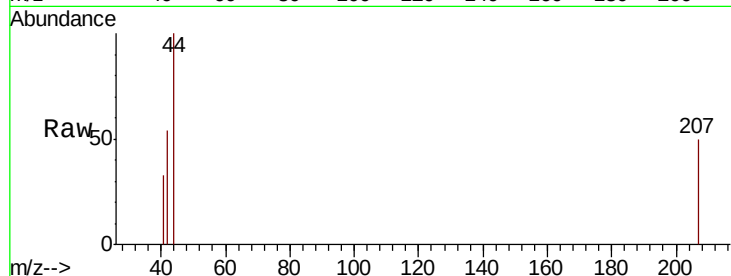




#29
Tetrahydrofuran
Concen: 0.376 ug/l
RT: 7.17 min Scan# 1677
Delta R.T. -0.00 min
Lab File: VN061569.D
Acq: 29 May 2020 15:59

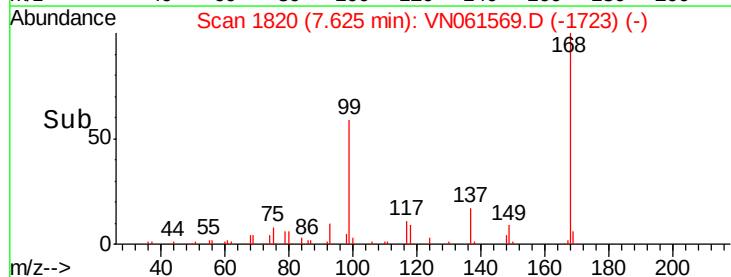
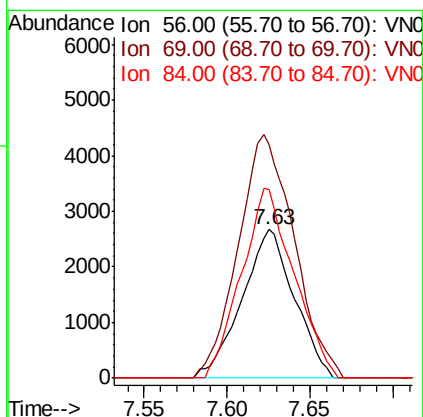
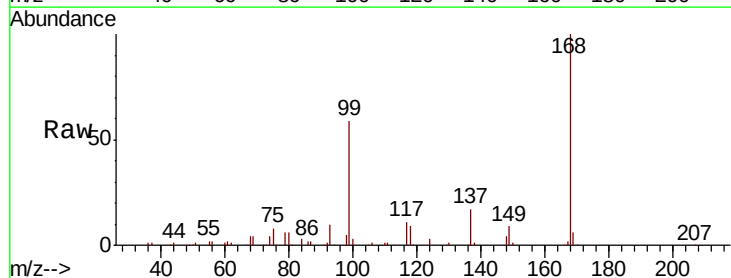
Instrument :
MSVOA_N
ClientSampleId :

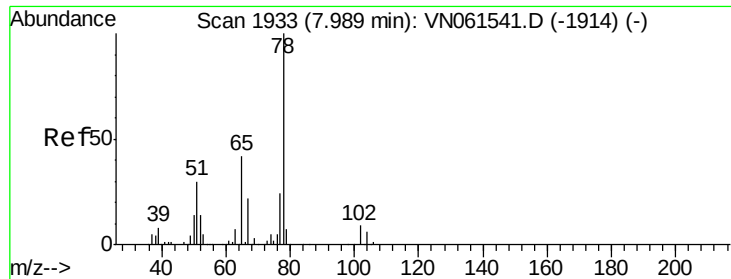
Tot Ion: 42 Resp: 380
Ion Ratio Lower Upper
42 100
72 15.8 43.6 65.4#
71 0.0 41.2 61.8#



#31
Cyclohexane
Concen: 1.290 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061569.D
Acq: 29 May 2020 15:59

Tgt Ion: 56 Resp: 5887
Ion Ratio Lower Upper
56 100
69 156.6 27.8 41.8#
84 127.2 79.9 119.9#

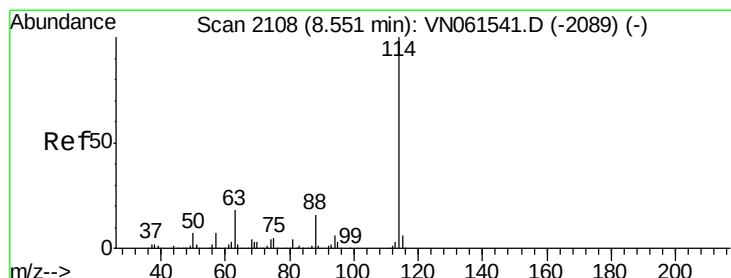
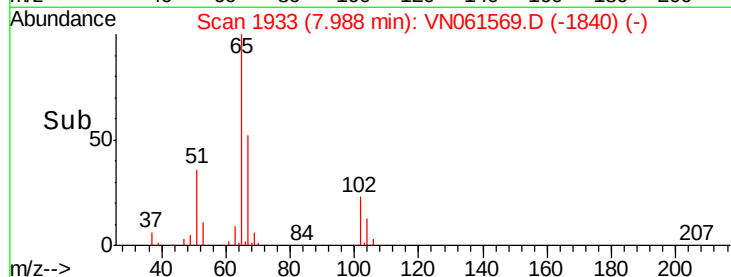
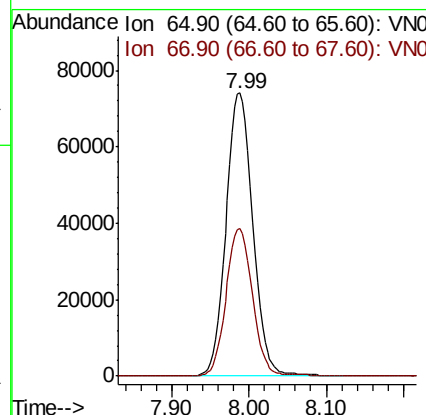
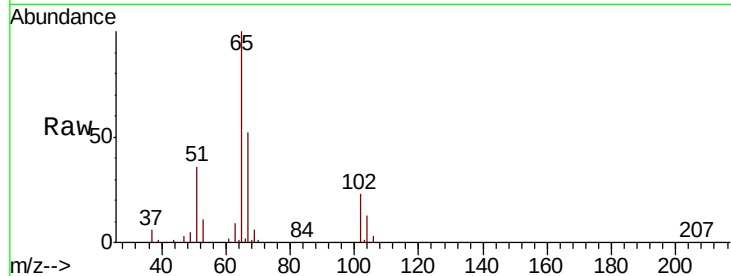




#33
 1,2-Dichloroethane-d4
 Concen: 54.990 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN061569.D
 Acq: 29 May 2020 15:59

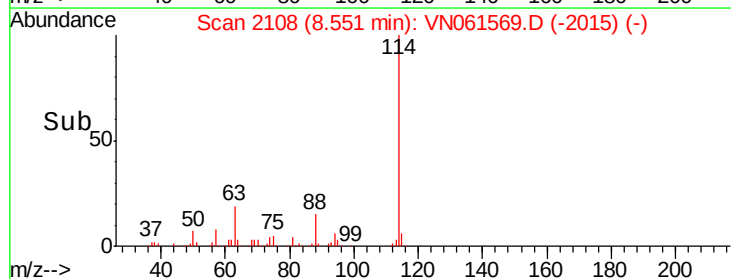
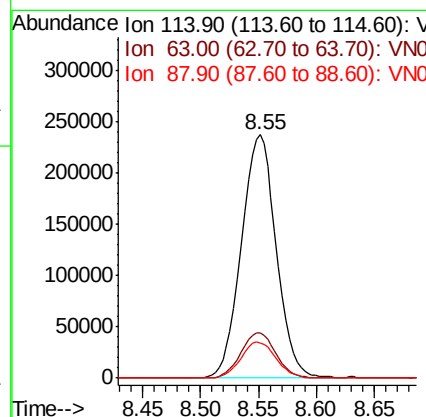
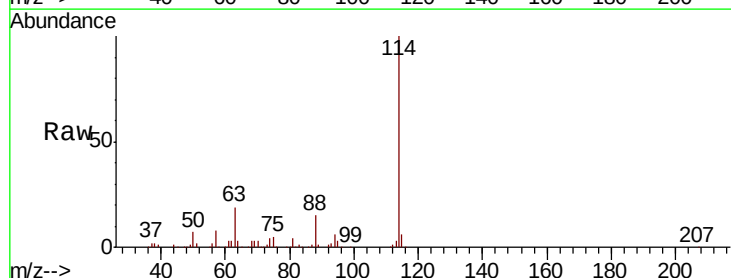
Instrument :
 MSVOA_N
 ClientSampleId :

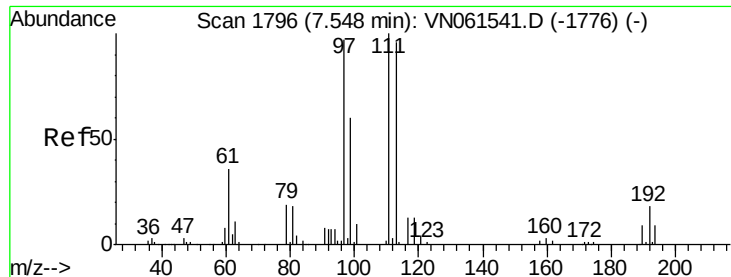
Tot Ion: 65 Resp: 178028
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061569.D
 Acq: 29 May 2020 15:59

Tgt Ion: 114 Resp: 493625
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 35.8
 88 14.6 0.0 31.0

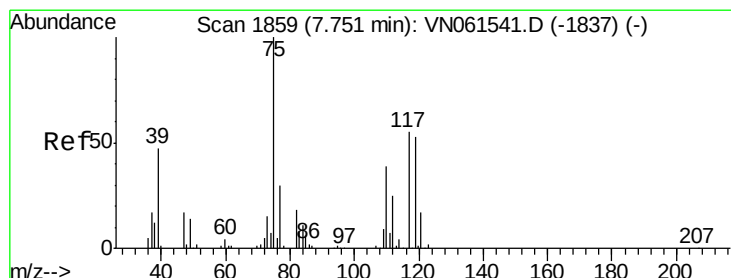
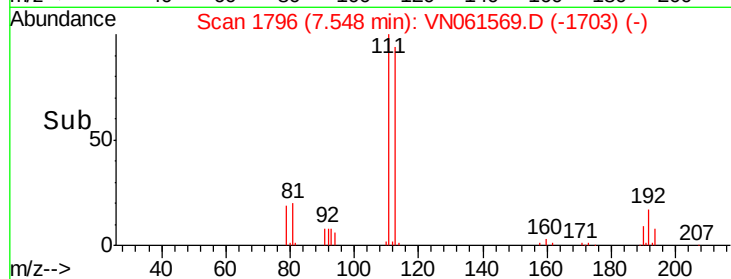
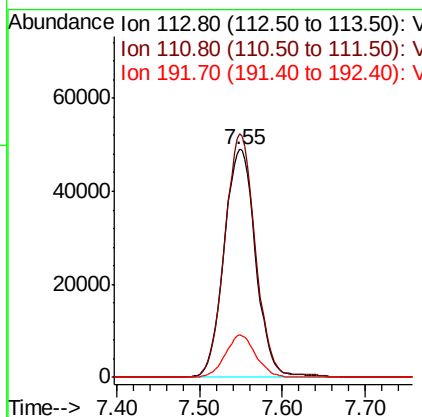
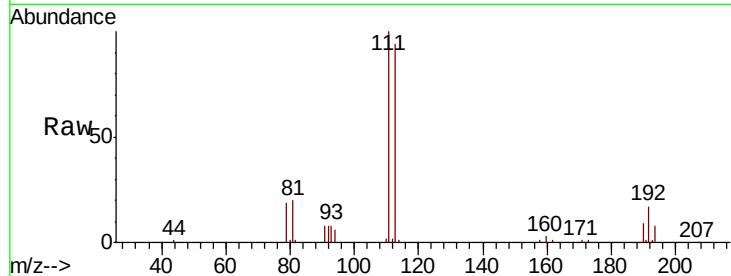




#35
 Dibromofluoromethane
 Concen: 51.880 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN061569.D
 Acq: 29 May 2020 15:59

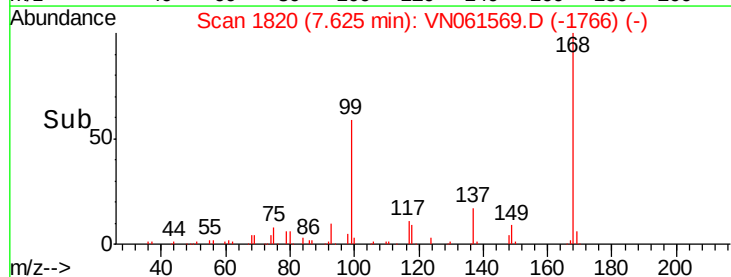
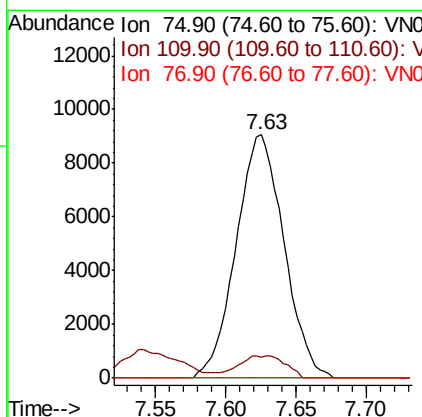
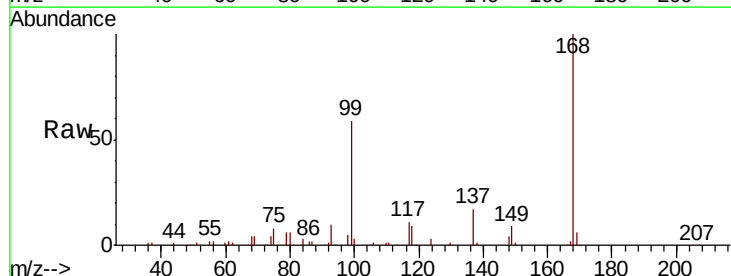
Instrument :
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 ClientSampleId :

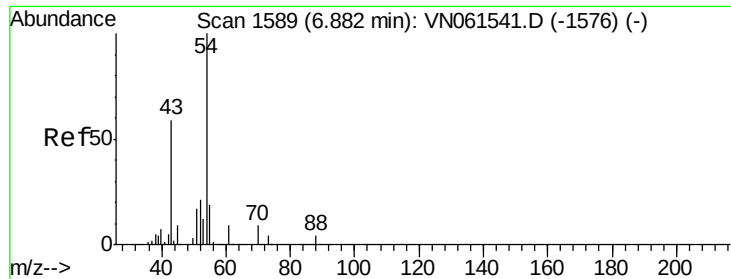
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	83.4	125.0
192	17.8	15.4	23.2



#36
 1,1-Dichloropropene
 Concen: 4.919 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061569.D
 Acq: 29 May 2020 15:59

Tgt Ion	Ratio	Lower	Upper
75	100		
110	3.0	19.5	58.5#
77	0.0	24.7	37.1#

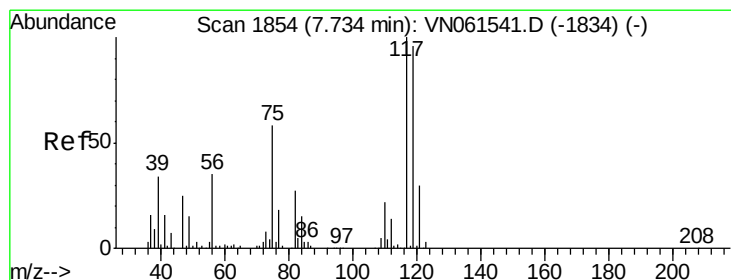
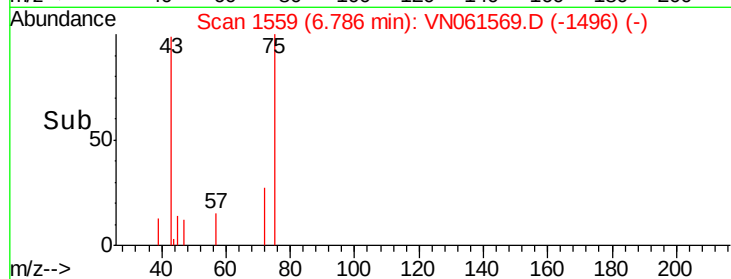
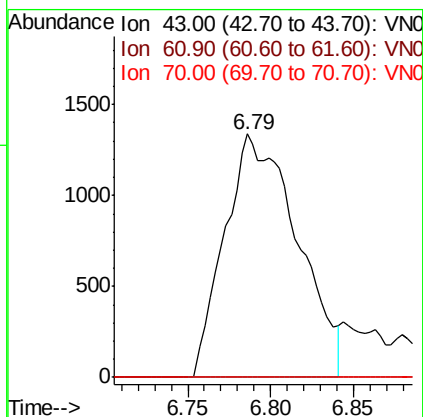
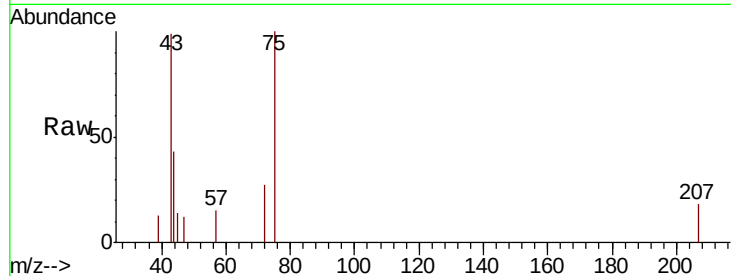




#37
Ethyl Acetate
Concen: 1.161 ug/l
RT: 6.79 min Scan# 1559
Delta R.T. -0.10 min
Lab File: VN061569.D
Acq: 29 May 2020 15:59

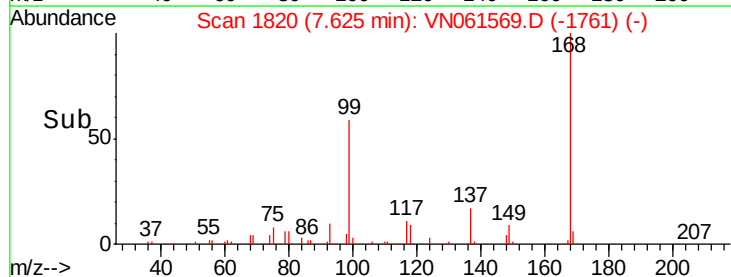
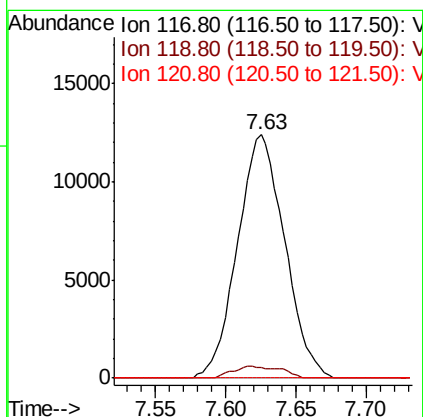
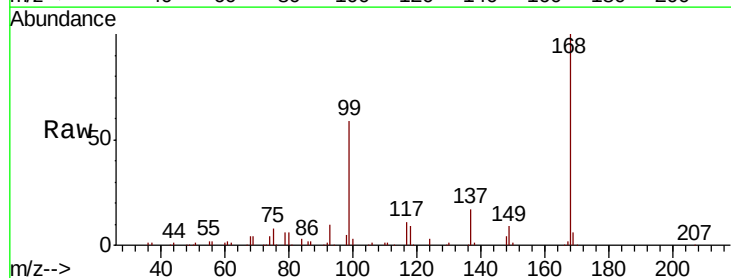
Instrument :
MSVOA_N
ClientSampleId :

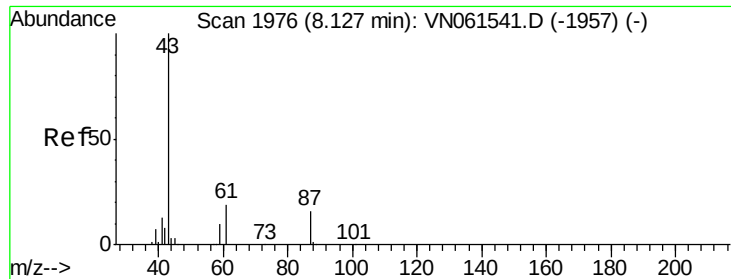
Tot Ion: 43 Resp: 4086
Ion Ratio Lower Upper
43 100
61 0.0 12.2 18.4#
70 0.0 9.4 14.2#



#38
Carbon Tetrachloride
Concen: 6.881 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.11 min
Lab File: VN061569.D
Acq: 29 May 2020 15:59

Tgt Ion: 117 Resp: 29003
Ion Ratio Lower Upper
117 100
119 4.2 76.5 114.7#
121 0.0 24.1 36.1#





#43

Isopropyl Acetate

Concen: 10.848 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN061569.D

Acq: 29 May 2020 15:59

Instrument :

MSVOA_N

ClientSampleId :

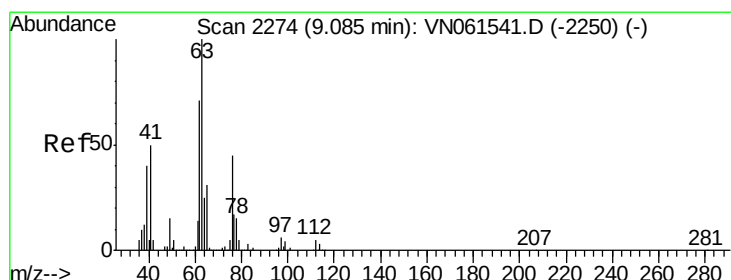
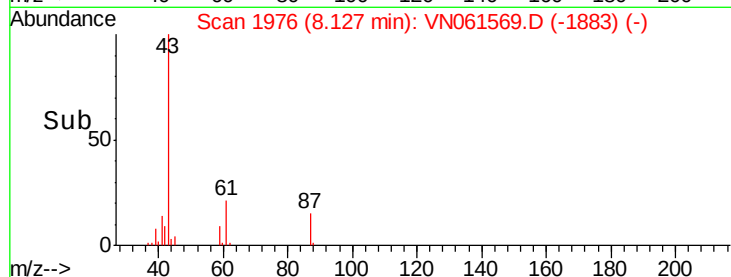
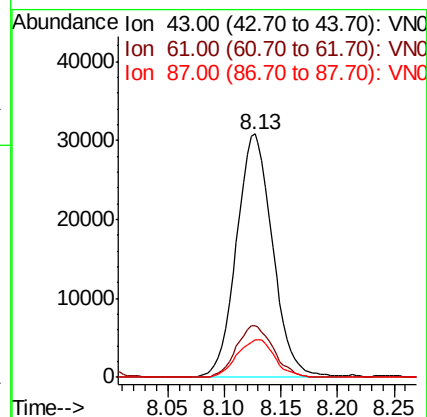
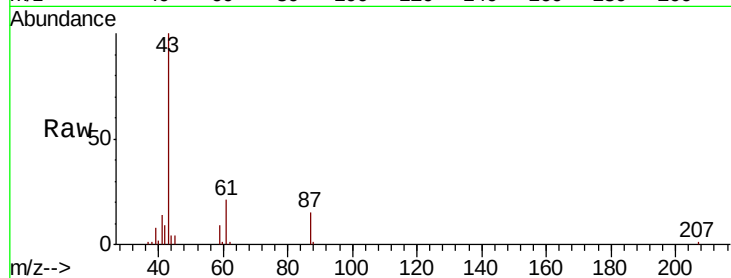
Tot Ion: 43 Resp: 68692

Ion Ratio Lower Upper

43 100

61 21.6 23.6 35.4#

87 16.0 13.0 19.6



#45

1,2-Dichloropropane

Concen: 0.557 ug/l

RT: 9.24 min Scan# 2322

Delta R.T. 0.15 min

Lab File: VN061569.D

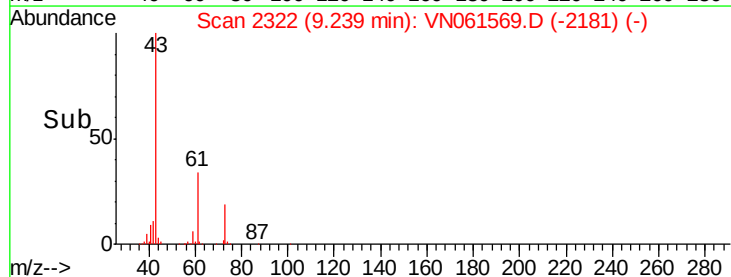
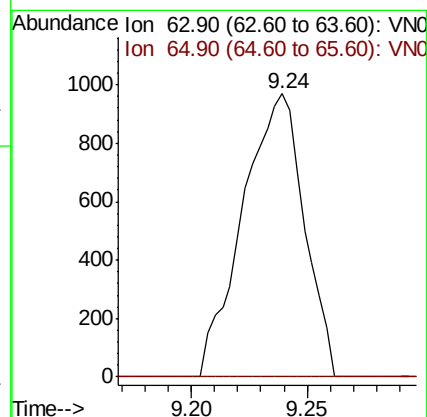
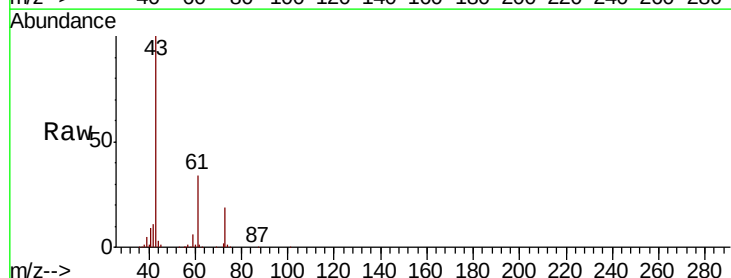
Acq: 29 May 2020 15:59

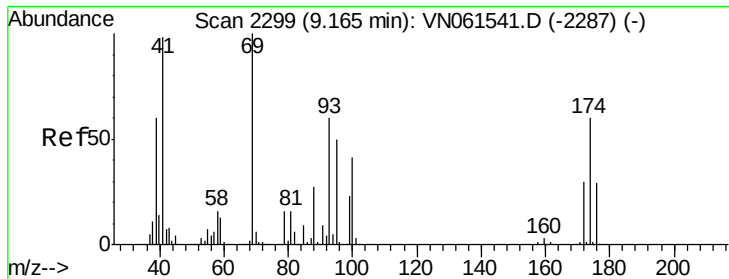
Tgt Ion: 63 Resp: 1782

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#

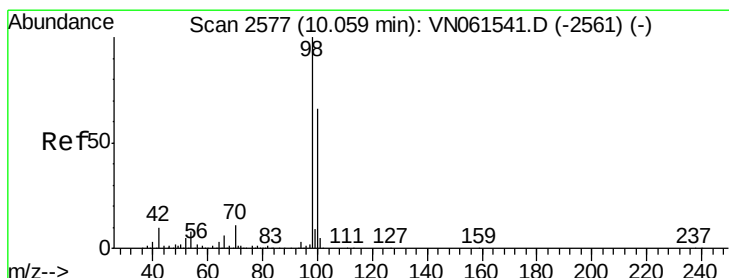
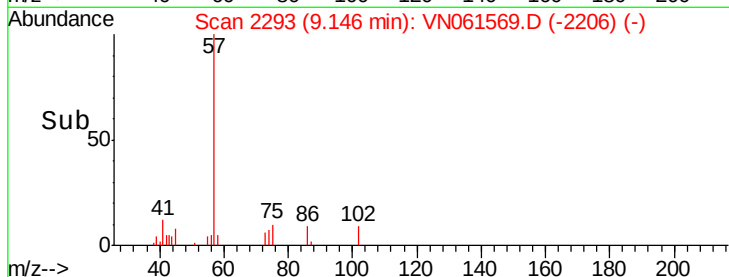
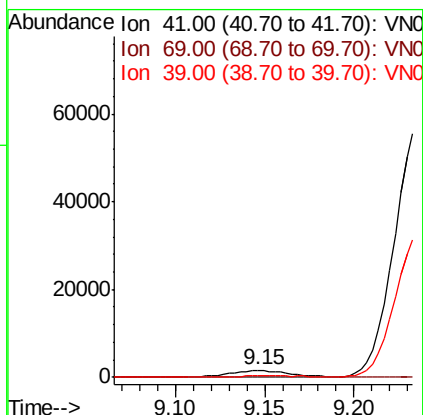
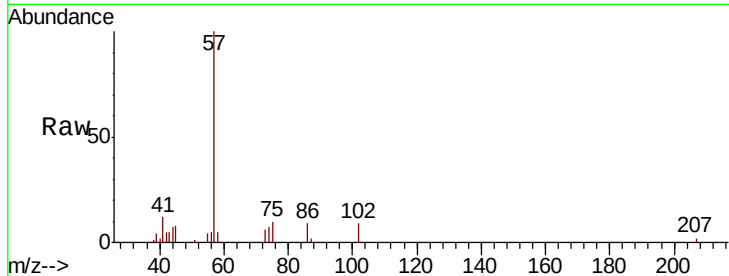




#48
Methvl methacrylate
Concen: 1.324 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN061569.D
Acq: 29 May 2020 15:59

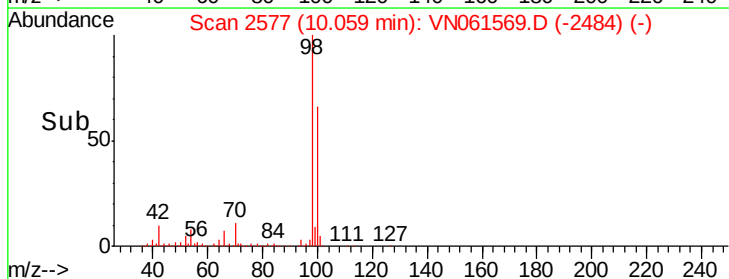
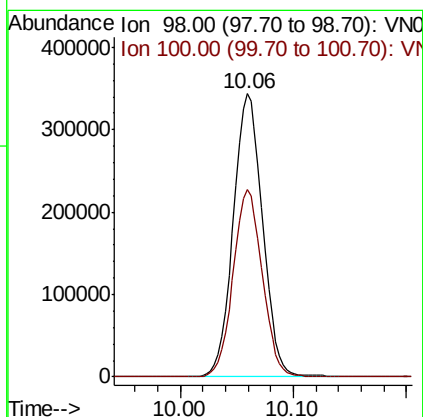
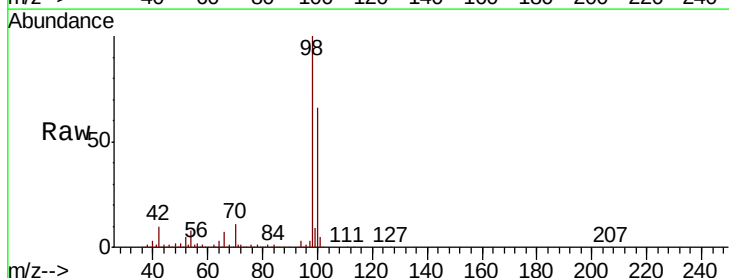
Instrument :
MSVOA_N
ClientSampleId :

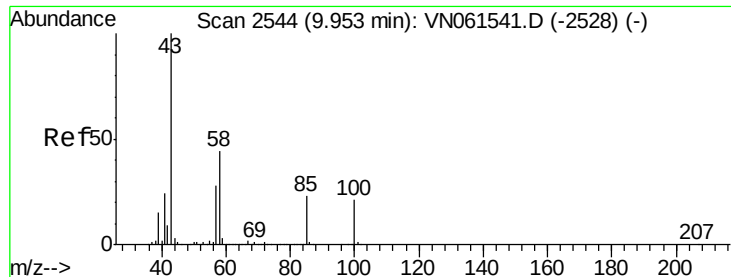
Tot Ion: 41 Resp: 3771
Ion Ratio Lower Upper
41 100
69 0.0 83.9 125.9#
39 0.0 52.1 78.1#



#50
Toluene-d8
Concen: 53.501 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN061569.D
Acq: 29 May 2020 15:59

Tgt Ion: 98 Resp: 620840
Ion Ratio Lower Upper
98 100
100 65.8 52.8 79.2

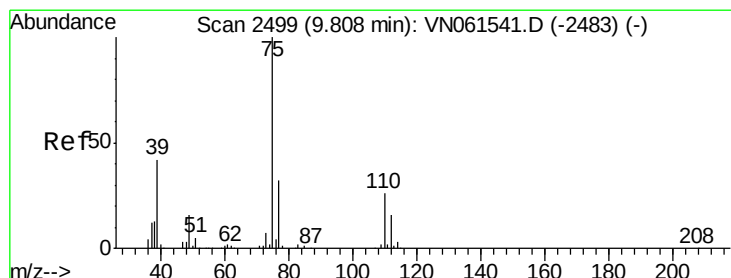
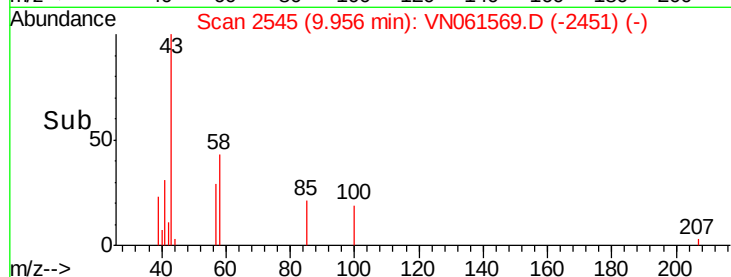
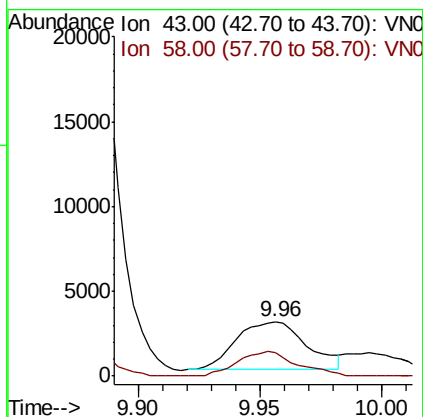
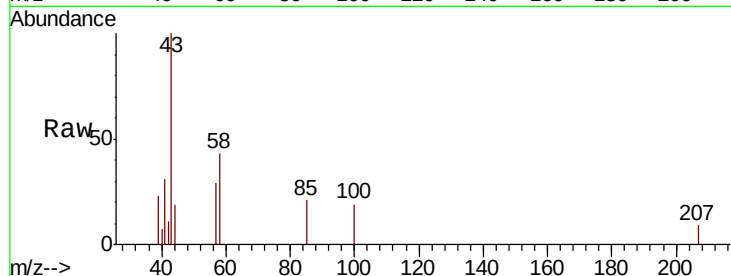




#51
4-Methyl-2-Pentanone
Concen: 1.593 ug/l
RT: 9.96 min Scan# 2545
Delta R.T. 0.00 min
Lab File: VN061569.D
Acq: 29 May 2020 15:59

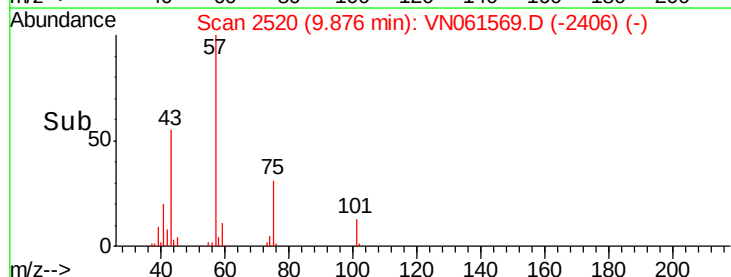
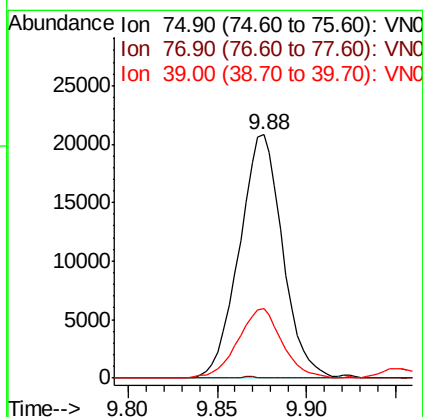
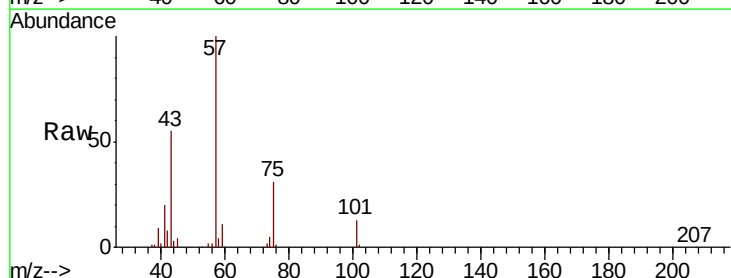
Instrument :
MSVOA_N
ClientSampleId :

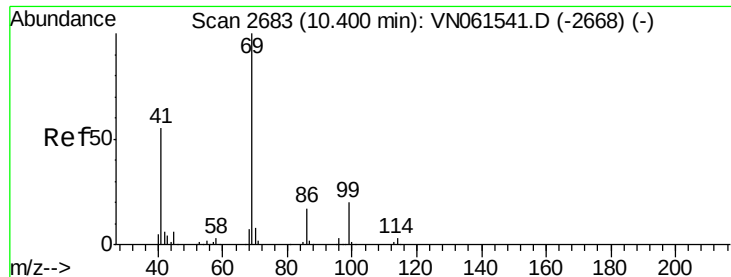
Tot Ion: 43 Resp: 5684
Ion Ratio Lower Upper
43 100
58 43.1 35.0 52.6



#54
cis-1,3-Dichloropropene
Concen: 6.264 ug/l
RT: 9.88 min Scan# 2520
Delta R.T. 0.07 min
Lab File: VN061569.D
Acq: 29 May 2020 15:59

Tgt Ion: 75 Resp: 35300
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.2#
39 28.4 33.8 50.6#





#56

Ethyl methacrylate

Concen: 0.234 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN061569.D

Acq: 29 May 2020 15:59

Instrument :

MSVOA_N

ClientSampled :

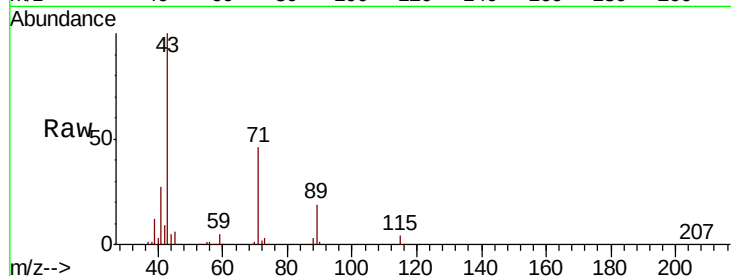
Tot Ion: 69 Resp: 1144

Ion Ratio Lower Upper

69 100

41 5851.0 43.5 65.3#

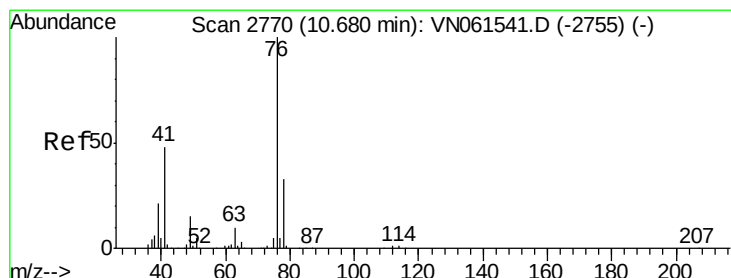
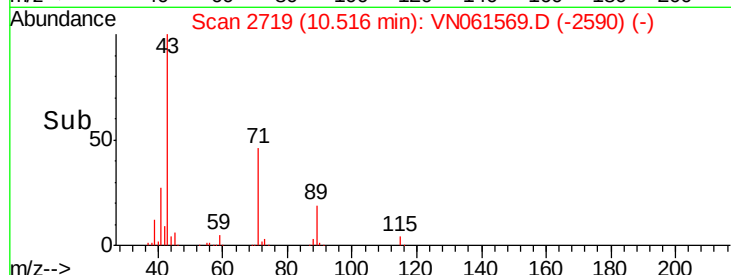
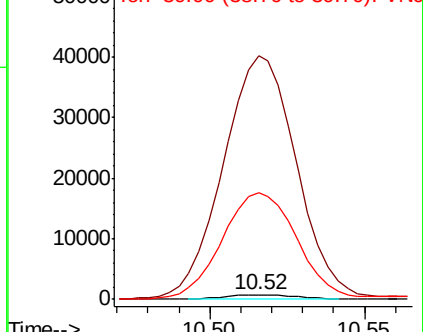
39 2641.3 27.0 40.6#



Abundance Ion 69.00 (68.70 to 69.70): VN061541.D (-2668) (-)

Ion 41.00 (40.70 to 41.70): VN061541.D (-2668) (-)

Ion 39.00 (38.70 to 39.70): VN061541.D (-2668) (-)



#57

1,3-Dichloropropane

Concen: 1.137 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.05 min

Lab File: VN061569.D

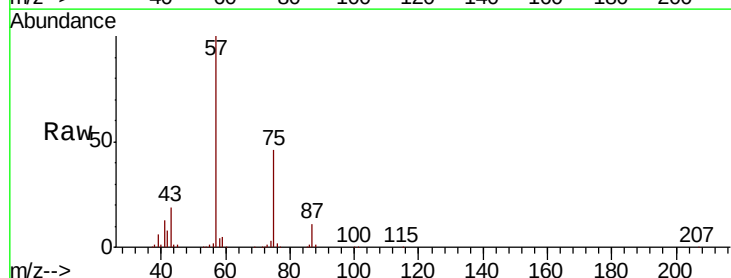
Acq: 29 May 2020 15:59

Tgt Ion: 76 Resp: 6373

Ion Ratio Lower Upper

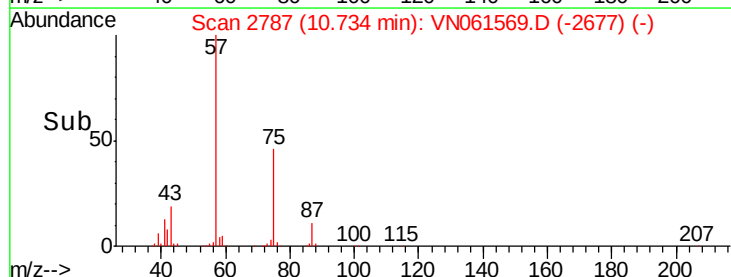
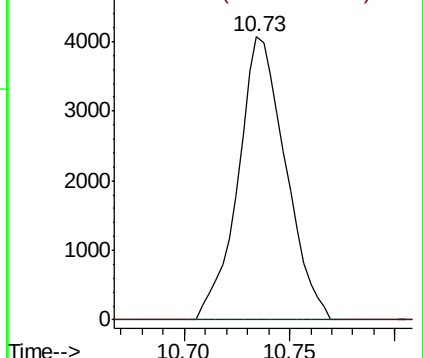
76 100

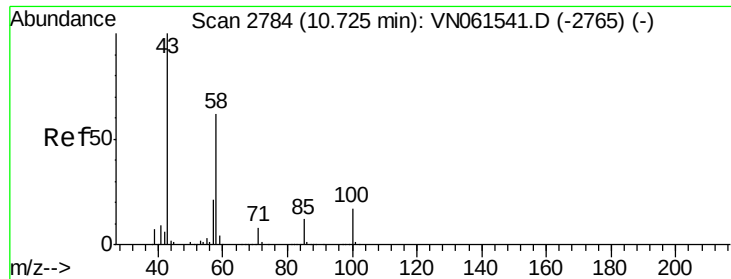
78 0.0 26.3 39.5#



Abundance Ion 75.90 (75.60 to 76.60): VN061541.D (-2755) (-)

Ion 77.90 (77.60 to 78.60): VN061541.D (-2755) (-)

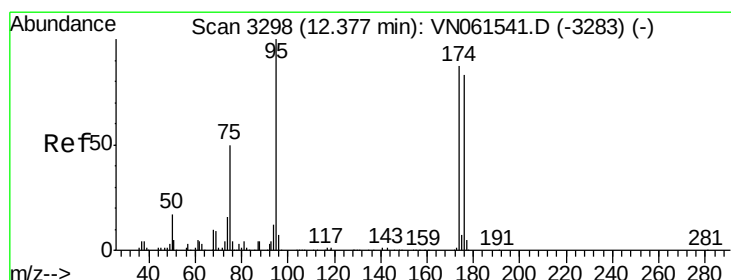
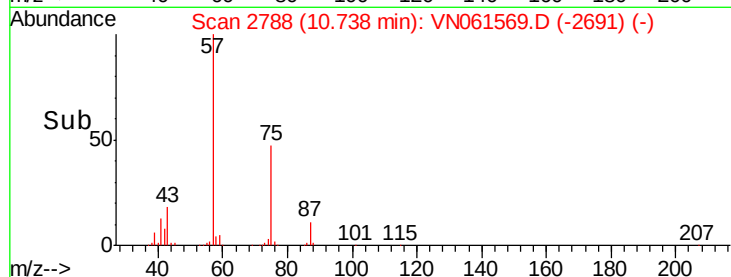
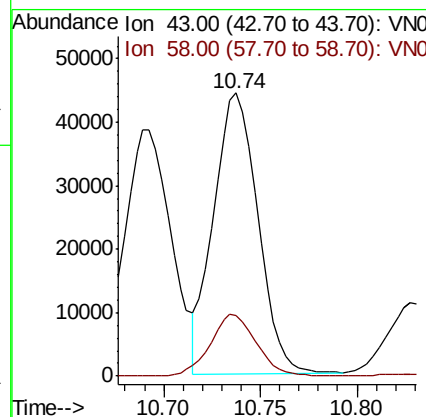
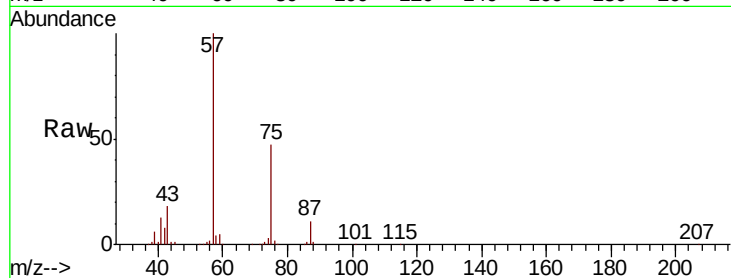




#59
2-Hexanone
Concen: 27.601 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.01 min
Lab File: VN061569.D
Acq: 29 May 2020 15:59

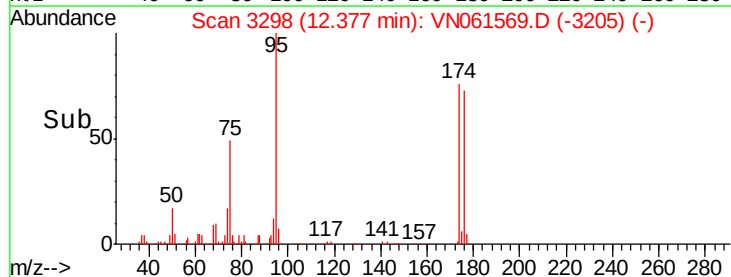
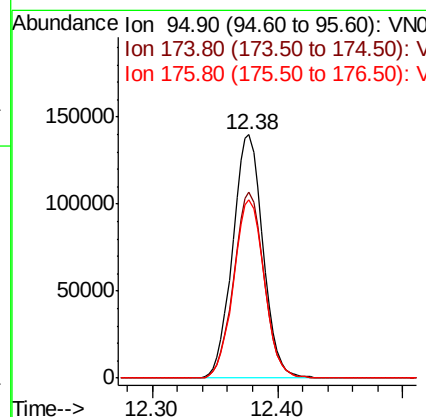
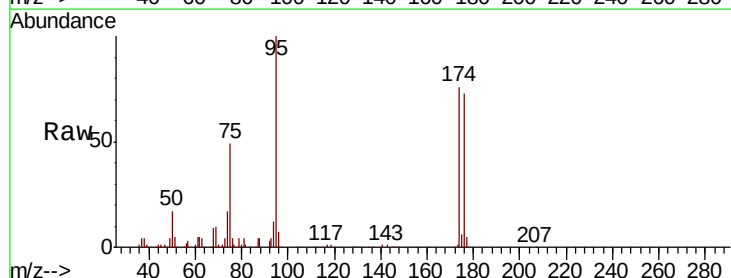
Instrument :
MSVOA_N
ClientSampled :

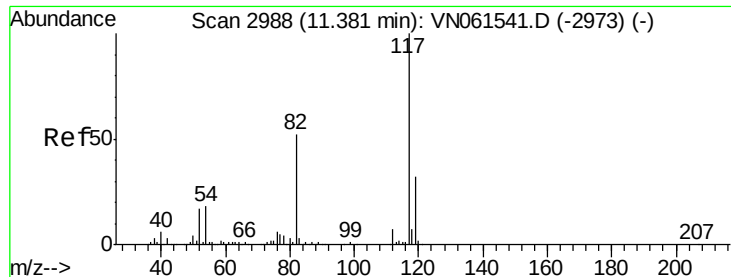
Tot Ion: 43 Resp: 70734
Ion Ratio Lower Upper
43 100
58 22.7 30.7 92.1#



#62
4-Bromofluorobenzene
Concen: 55.465 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN061569.D
Acq: 29 May 2020 15:59

Tgt Ion: 95 Resp: 234816
Ion Ratio Lower Upper
95 100
174 76.4 0.0 172.8
176 74.3 0.0 164.8

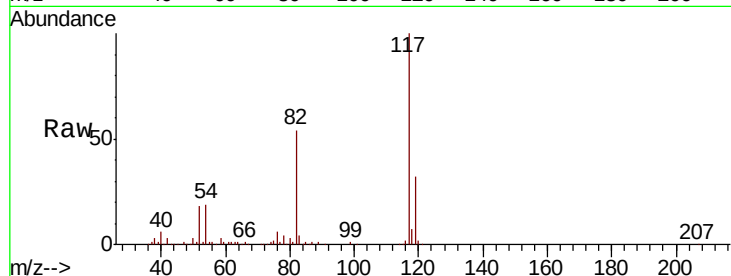




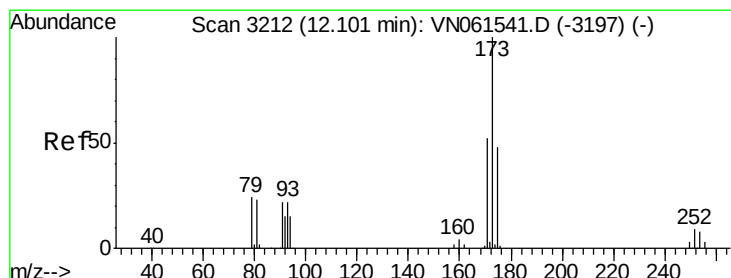
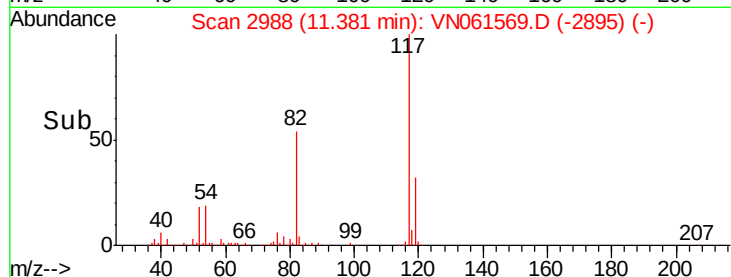
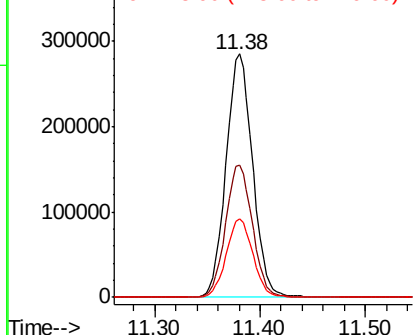
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061569.D
Acq: 29 May 2020 15:59

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 496865
Ion Ratio Lower Upper
117 100
82 54.2 41.5 62.3
119 32.2 25.6 38.4

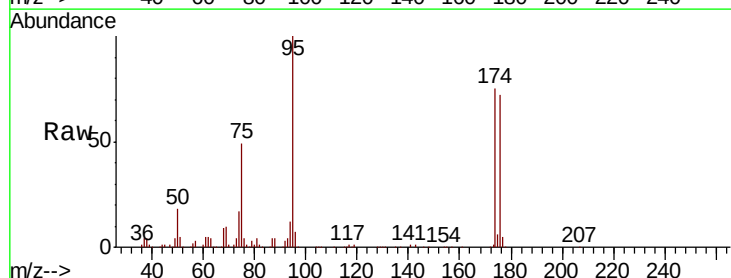


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

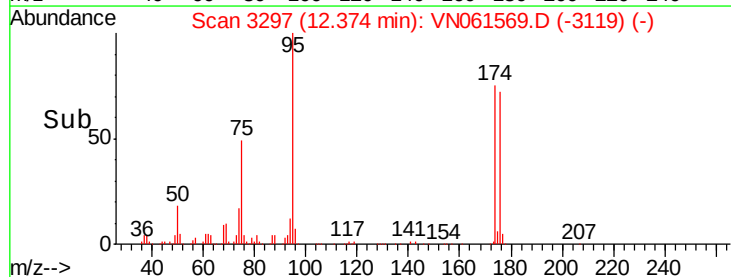
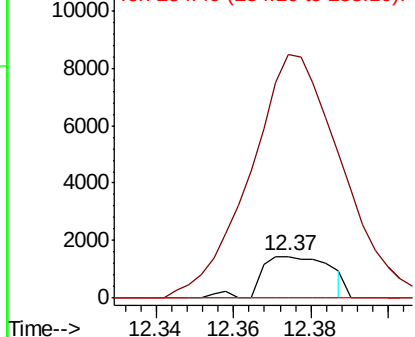


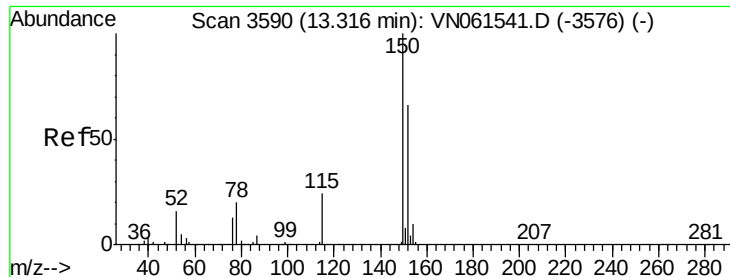
#71
Bromoform
Concen: 0.608 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN061569.D
Acq: 29 May 2020 15:59

Tgt Ion:173 Resp: 1802
Ion Ratio Lower Upper
173 100
175 662.7 24.4 73.2#
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# 3591

Delta R.T. 0.00 min

Lab File: VN061569.D

Acq: 29 May 2020 15:59

Instrument :

MSVOA_N

ClientSampleId :

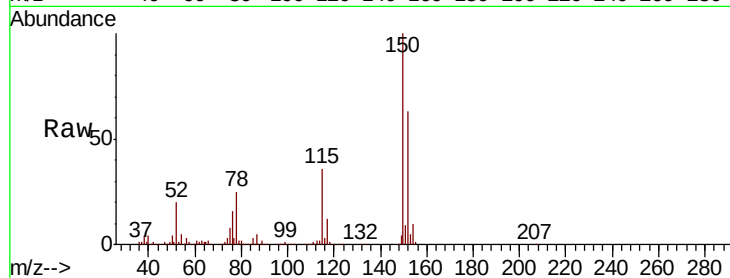
Tot Ion:152 Resp: 223149

Ion Ratio Lower Upper

152 100

115 59.7 28.0 84.0

150 158.3 0.0 344.0

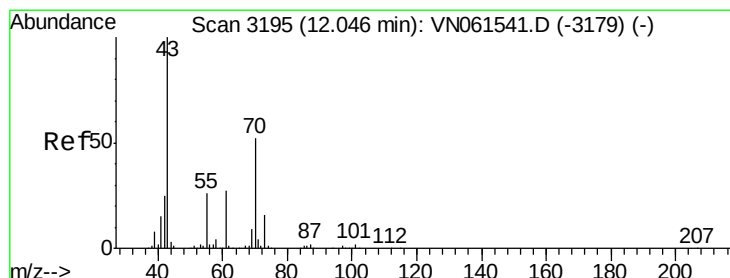
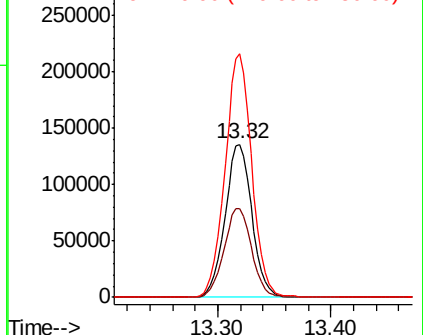
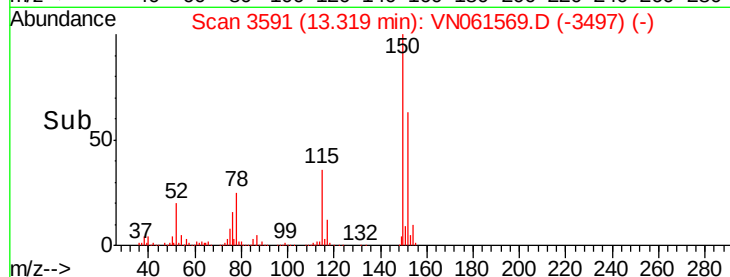


Abundance

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: 0.870 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061569.D

Acq: 29 May 2020 15:59

Tgt Ion: 43 Resp: 4461

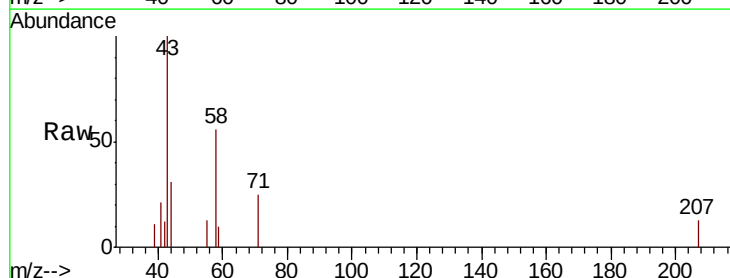
Ion Ratio Lower Upper

43 100

70 0.0 40.5 60.7#

55 8.2 20.6 31.0#

61 0.0 21.8 32.6#



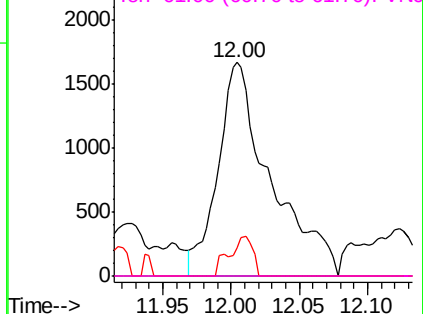
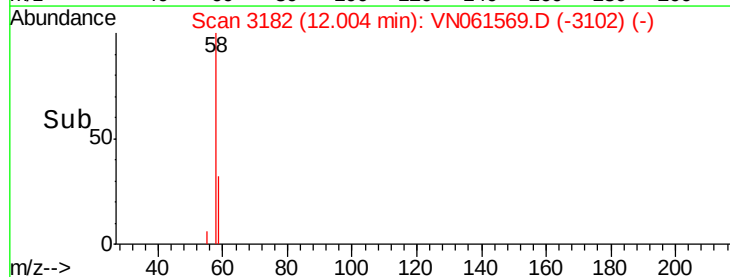
Abundance

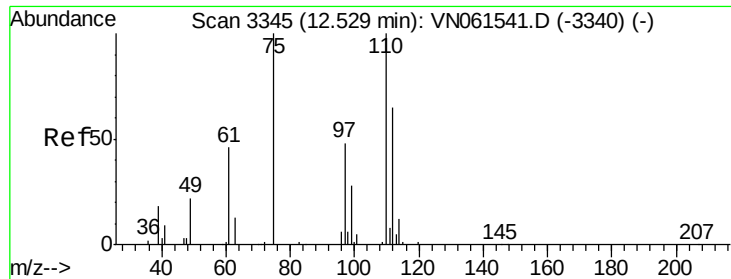
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 28.743 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061569.D

Acq: 29 May 2020 15:59

Instrument :

MSVOA_N

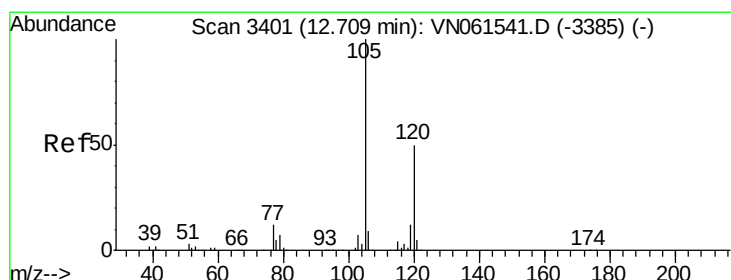
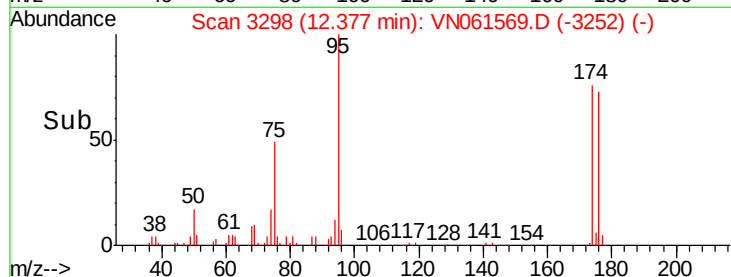
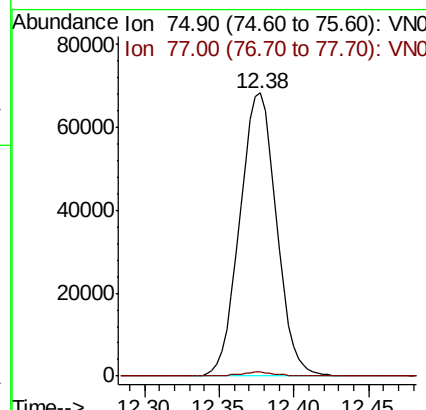
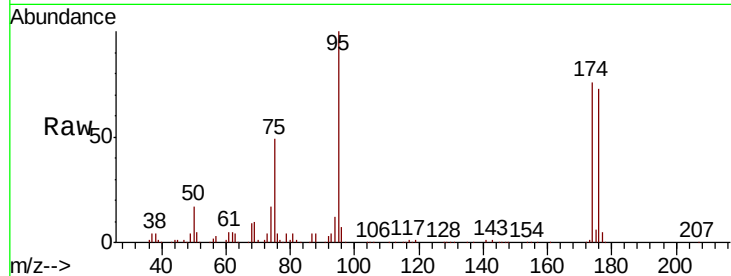
ClientSampleId :

Tot Ion: 75 Resp: 116631

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.288 ug/l

RT: 12.71 min Scan# 3400

Delta R.T. -0.00 min

Lab File: VN061569.D

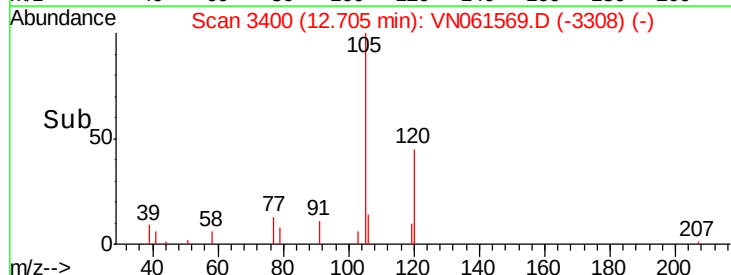
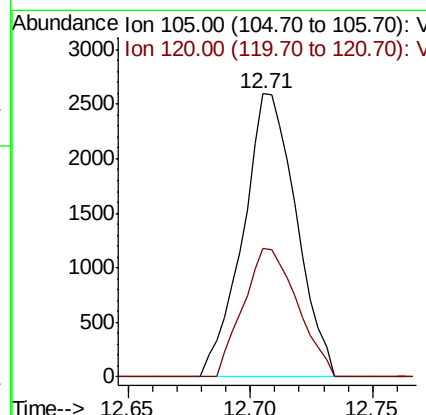
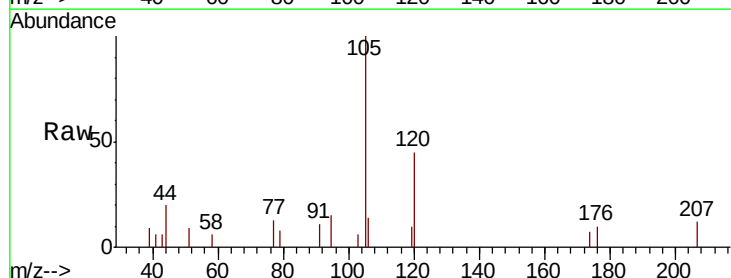
Acq: 29 May 2020 15:59

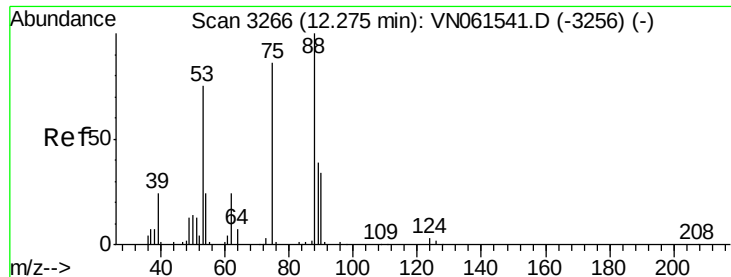
Tgt Ion: 105 Resp: 3927

Ion Ratio Lower Upper

105 100

120 45.9 25.1 75.2





#81

trans-1,4-Dichloro-2-butene

Concen: 73.504 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061569.D

Acq: 29 May 2020 15:59

Instrument :

MSVOA_N

ClientSampleId :

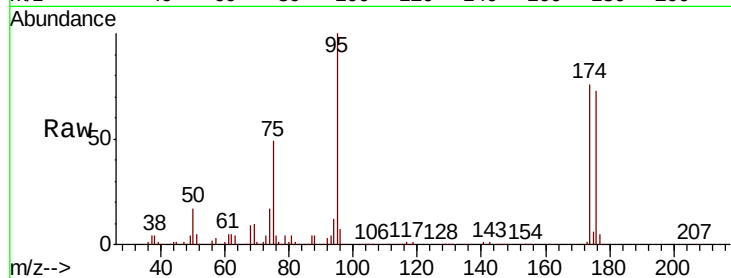
Tot Ion: 75 Resp: 116631

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

89 0.0 37.1 55.7#



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

