

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052920\
 Data File : VN061557.D
 Acq On : 29 May 2020 11:06
 Operator : JC/MD
 Sample : VN0529WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 30 04:40:42 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	7.62	168	278972	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	486118	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	451609	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	176175	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.98	65	170849	51.40	ug/l	0.00
Spiked Amount			Recovery	=	102.80%	
35) Dibromofluoromethane	7.54	113	137438	55.73	ug/l	0.00
Spiked Amount			Recovery	=	111.46%	
50) Toluene-d8	10.06	98	580343	50.78	ug/l	0.00
Spiked Amount			Recovery	=	101.56%	
62) 4-Bromofluorobenzene	12.38	95	199529	47.86	ug/l	0.00
Spiked Amount			Recovery	=	95.72%	

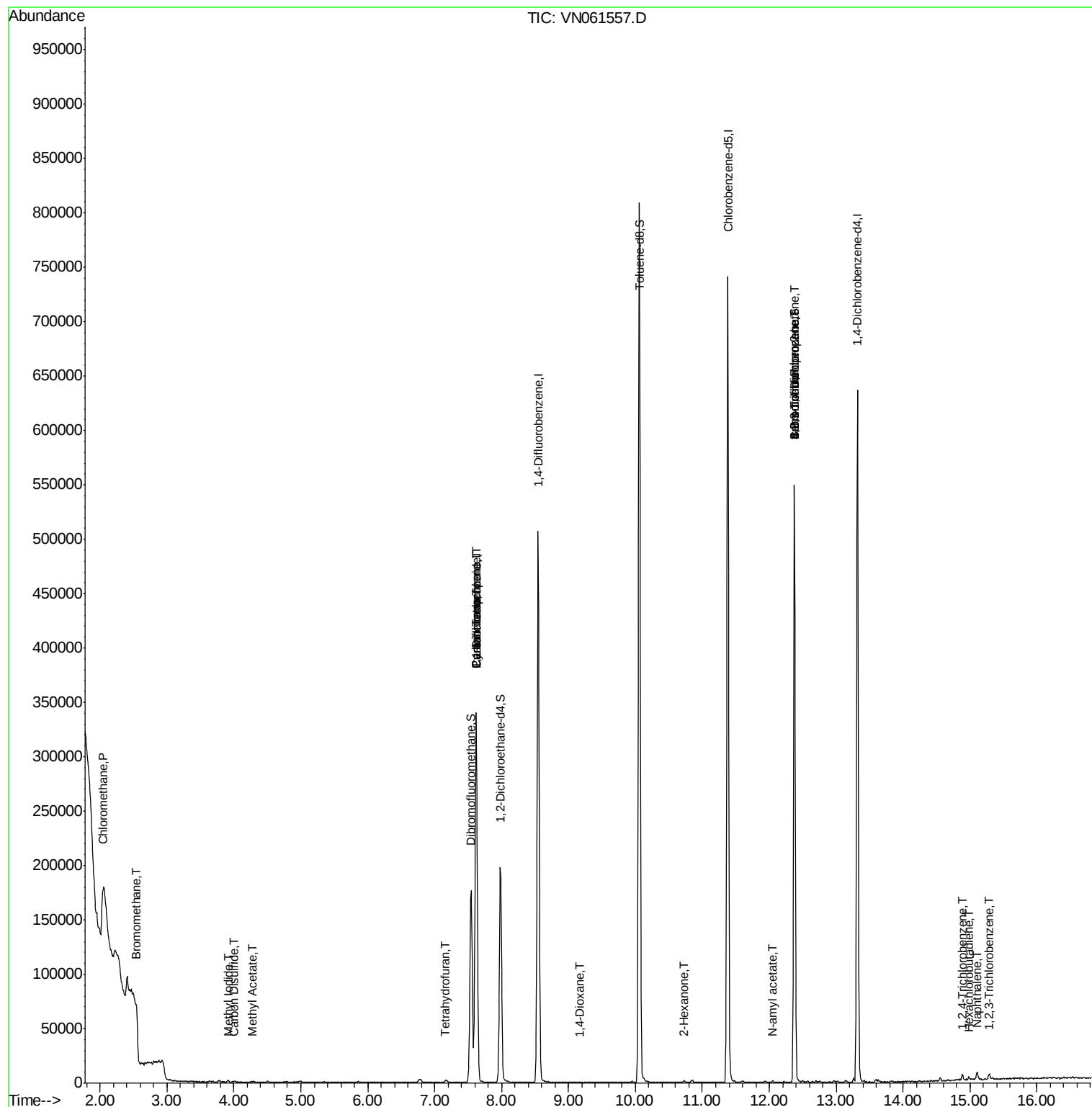
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	2652	0.779	ug/l #	85
5) Bromomethane	2.54	94	1796	0.671	ug/l #	74
10) Methyl Iodide	3.91	142	1817	0.491	ug/l #	89
16) Acetone	3.78	43	1987	Below Cal	#	87
17) Carbon Disulfide	4.00	76	1642	0.262	ug/l #	74
18) Methyl Acetate	4.28	43	804	0.267	ug/l #	46
20) Methylene Chloride	4.49	84	344	Below Cal	#	83
29) Tetrahydrofuran	7.16	42	679	0.654	ug/l #	76
31) Cyclohexane	7.62	56	5952	1.271	ug/l #	7
36) 1,1-Dichloropropene	7.62	75	21767	5.058	ug/l #	47
38) Carbon Tetrachloride	7.62	117	27849	6.709	ug/l #	15
49) 1,4-Dioxane	9.16	88	137	3.152	ug/l #	29
59) 2-Hexanone	10.73	43	1332	0.528	ug/l	73
71) Bromoform	12.38	173	1598	0.593	ug/l #	1
74) N-amyl acetate	12.05	43	832	0.205	ug/l #	63
76) 1,2,3-Trichloropropane	12.37	75	99521	31.066	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	99521	79.444	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.89	180	1711	0.527	ug/l	92
94) Hexachlorobutadiene	14.98	225	734	0.530	ug/l	86
95) Naphthalene	15.11	128	7497	0.758	ug/l	97
96) 1,2,3-Trichlorobenzene	15.28	180	2311	0.724	ug/l	85

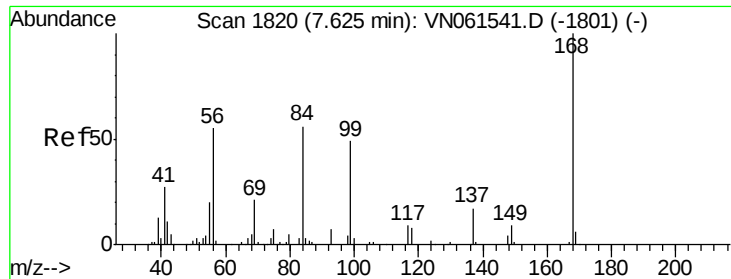
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 29 02:14:10 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VN061557.D

Acq: 29 May 2020 11:06

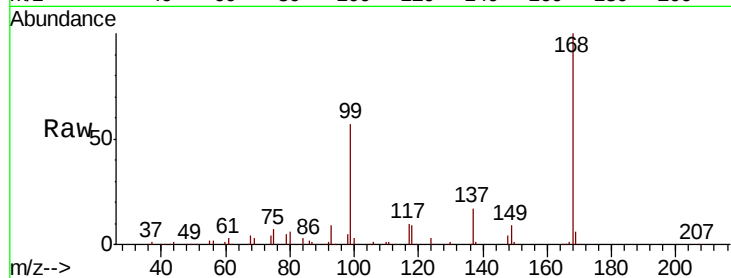
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 278972

Ion Ratio Lower Upper

168 100

99 56.7 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

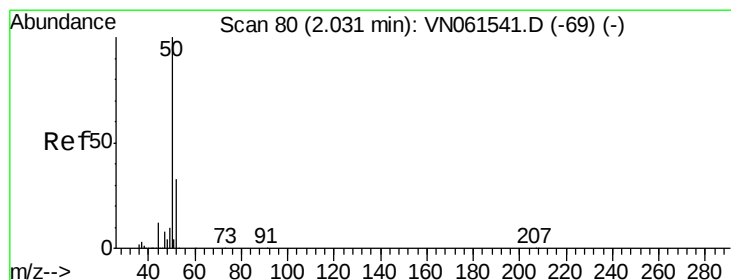
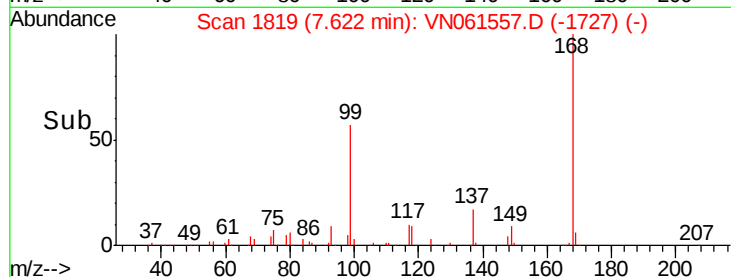
7.62

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.779 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN061557.D

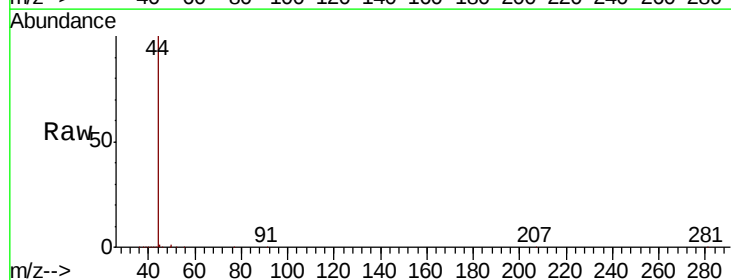
Acq: 29 May 2020 11:06

Tgt Ion: 50 Resp: 2652

Ion Ratio Lower Upper

50 100

52 42.0 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.03

1200

1000

800

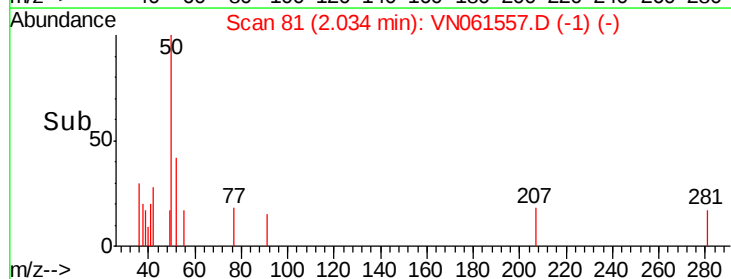
600

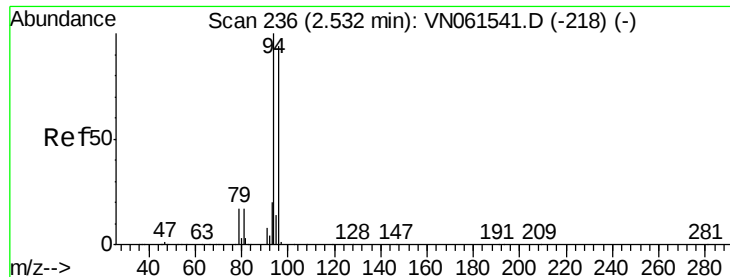
400

200

0

Time-->





#5

Bromomethane

Concen: 0.671 ug/l

RT: 2.54 min Scan# 240

Delta R.T. 0.01 min

Lab File: VN061557.D

Acq: 29 May 2020 11:06

Instrument :

MSVOA_N

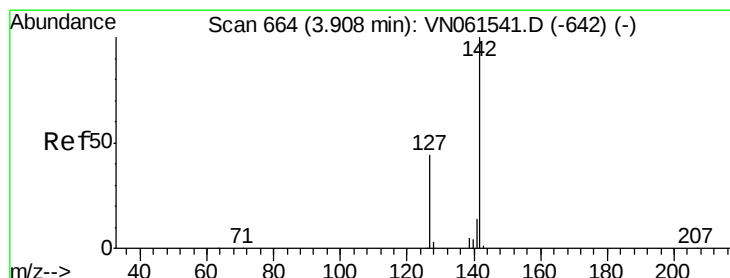
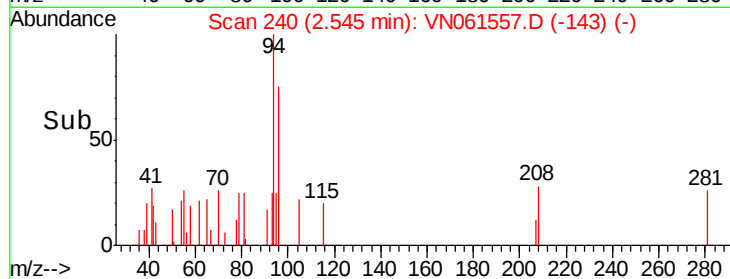
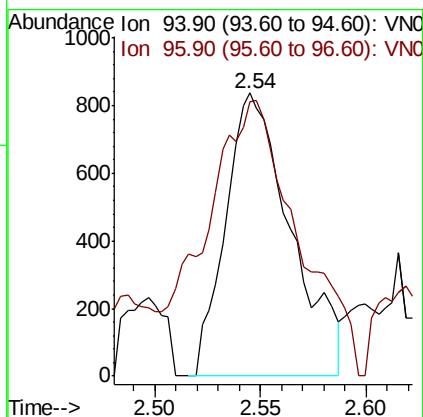
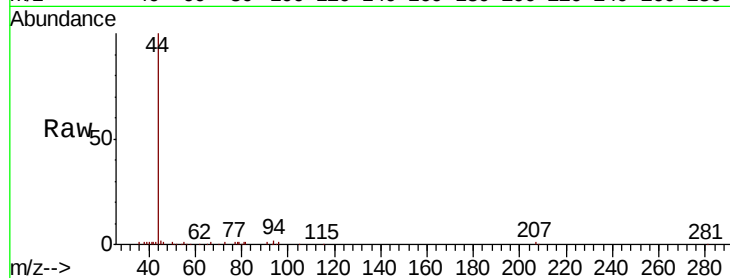
ClientSampled :

Tot Ion: 94 Resp: 1796

Ion Ratio Lower Upper

94 100

96 68.3 74.8 112.2#



#10

Methyl Iodide

Concen: 0.491 ug/l

RT: 3.91 min Scan# 665

Delta R.T. 0.00 min

Lab File: VN061557.D

Acq: 29 May 2020 11:06

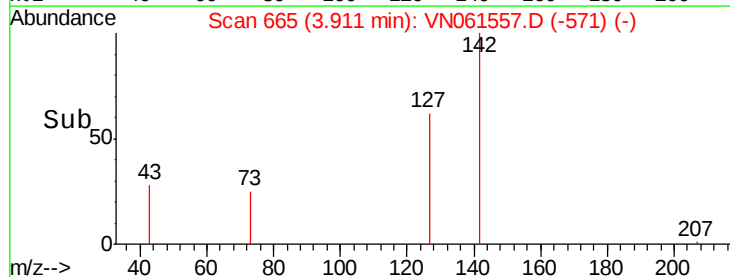
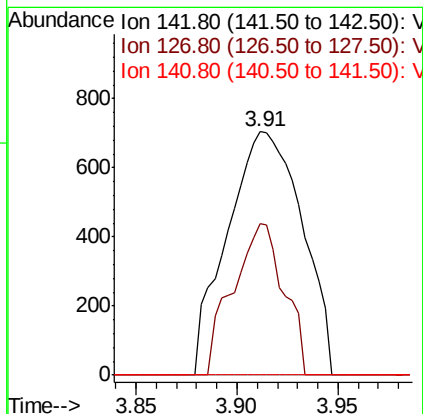
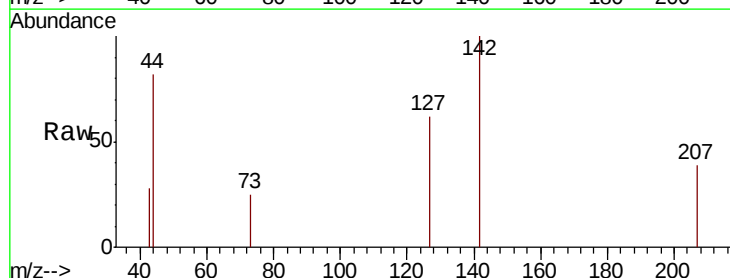
Tgt Ion: 142 Resp: 1817

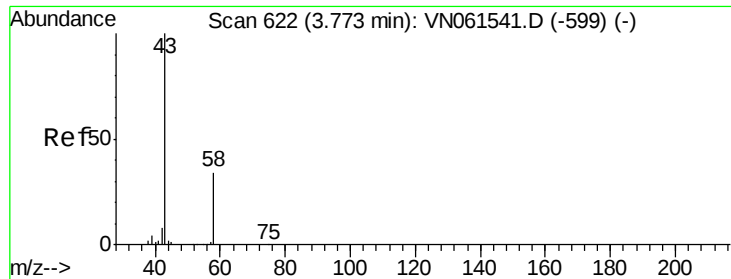
Ion Ratio Lower Upper

142 100

127 42.7 35.5 53.3

141 0.0 11.5 17.3#

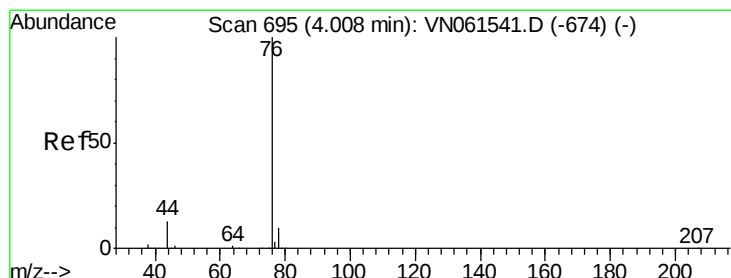
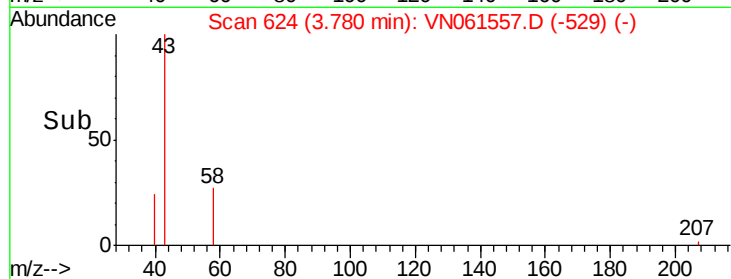
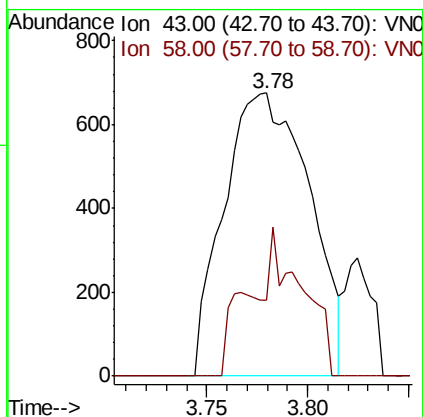
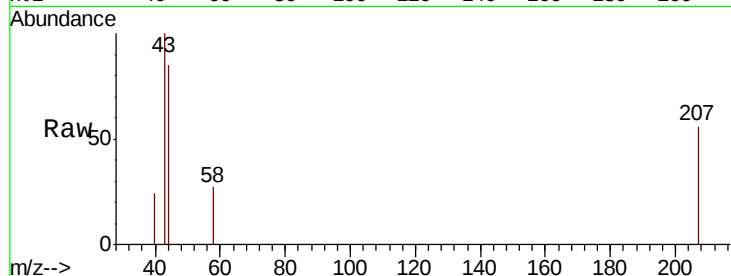




#16
Acetone
Concen: Below Cal
RT: 3.78 min Scan# 624
Delta R.T. 0.01 min
Lab File: VN061557.D
Acq: 29 May 2020 11:06

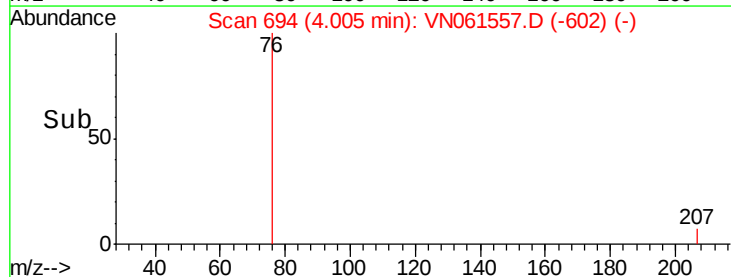
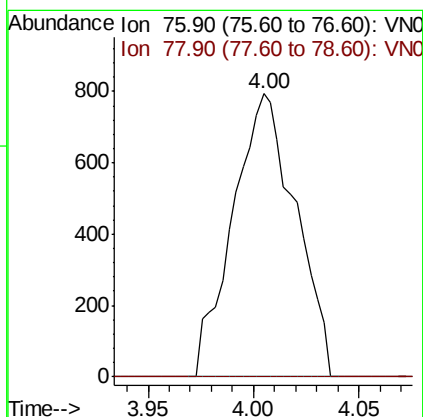
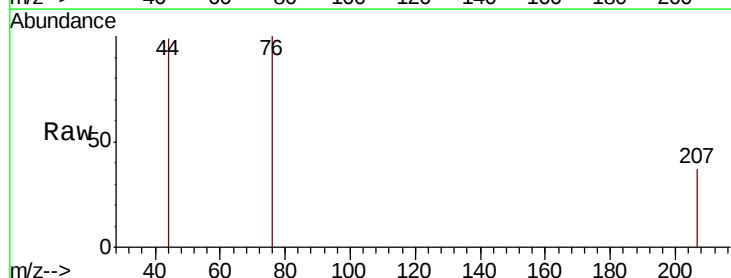
Instrument :
MSVOA_N
ClientSampleId :

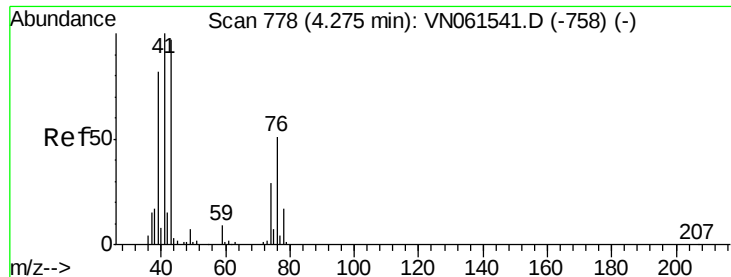
Tot Ion: 43 Resp: 1987
Ion Ratio Lower Upper
43 100
58 26.8 27.2 40.8#



#17
Carbon Disulfide
Concen: 0.262 ug/l
RT: 4.00 min Scan# 694
Delta R.T. -0.00 min
Lab File: VN061557.D
Acq: 29 May 2020 11:06

Tgt Ion: 76 Resp: 1642
Ion Ratio Lower Upper
76 100
78 0.0 7.8 11.6#

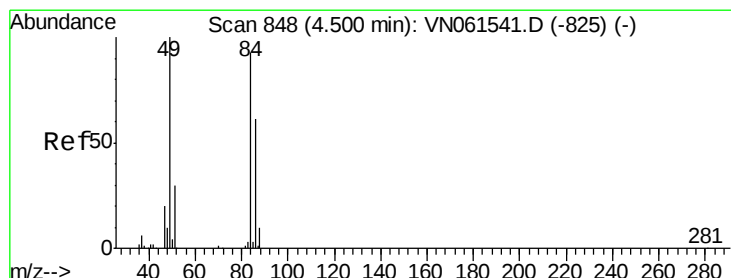
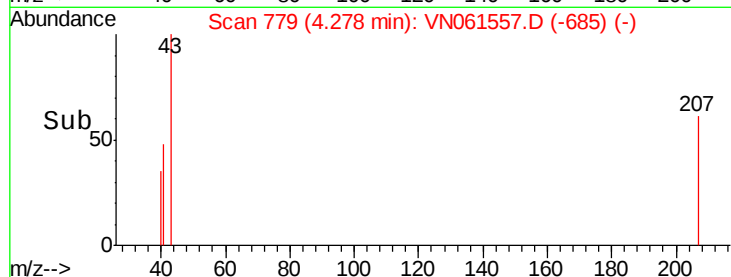
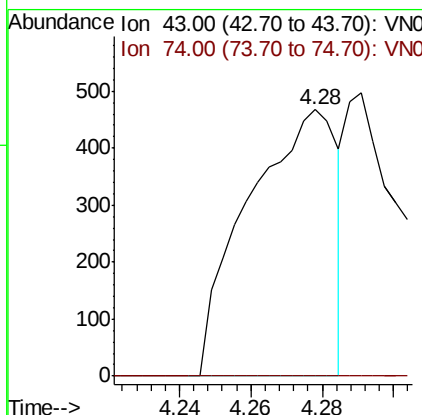
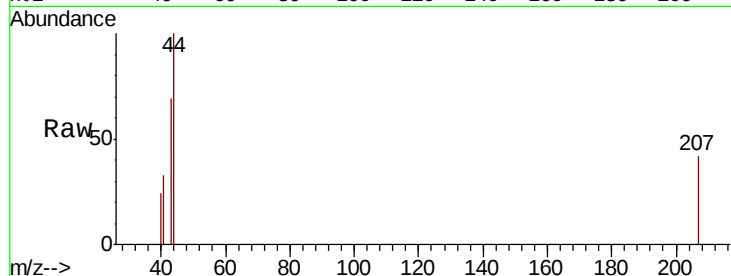




#18
Methyl Acetate
Concen: 0.267 ug/l
RT: 4.28 min Scan# 779
Delta R.T. 0.00 min
Lab File: VN061557.D
Acq: 29 May 2020 11:06

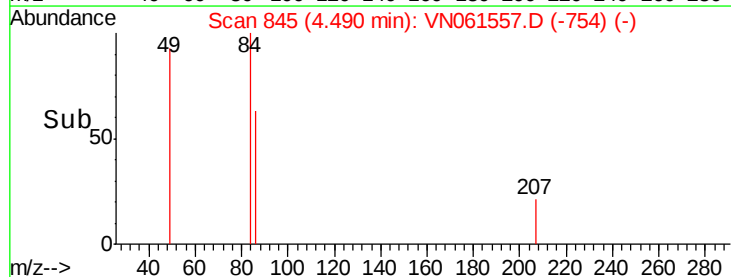
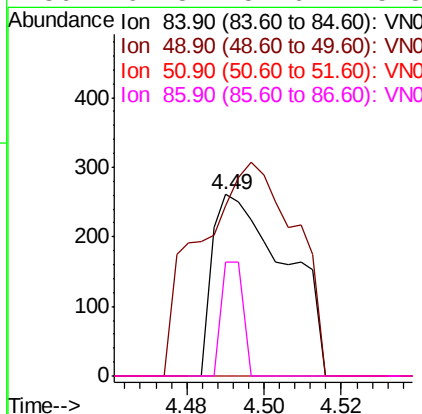
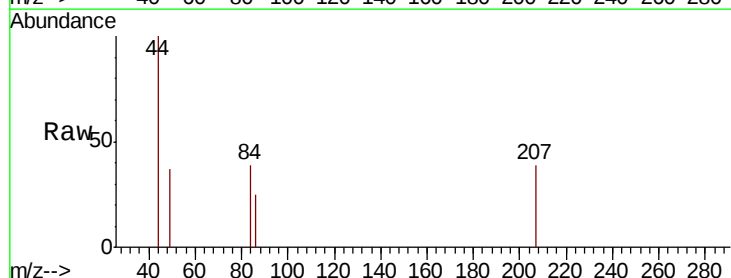
Instrument :
MSVOA_N
ClientSampled :

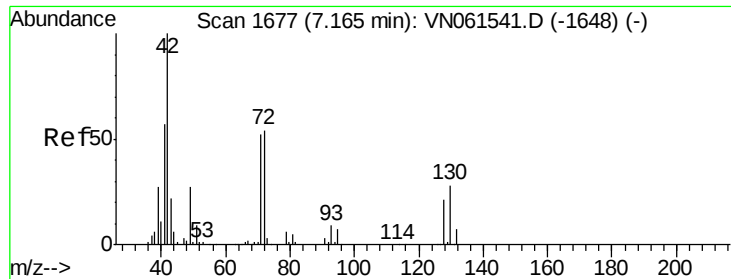
Tot Ion: 43 Resp: 804
Ion Ratio Lower Upper
43 100
74 0.0 23.2 34.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.49 min Scan# 845
Delta R.T. -0.01 min
Lab File: VN061557.D
Acq: 29 May 2020 11:06

Tgt Ion: 84 Resp: 344
Ion Ratio Lower Upper
84 100
49 93.5 85.8 128.8
51 0.0 26.2 39.2#
86 62.8 52.6 78.8

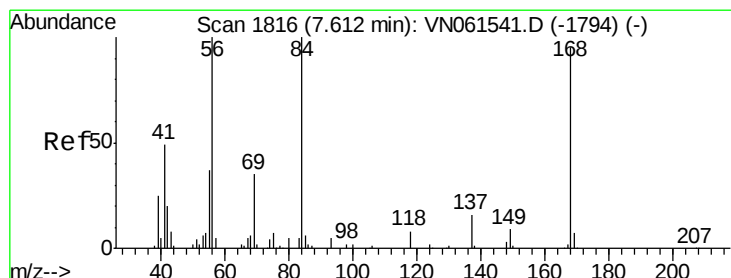
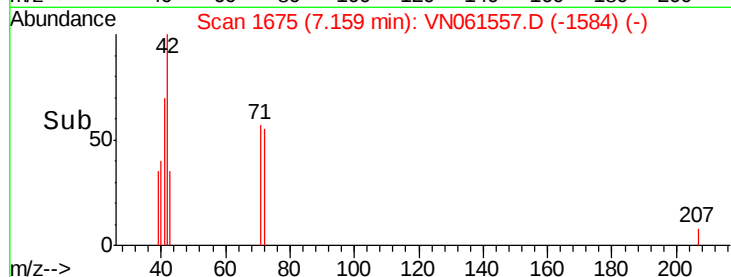
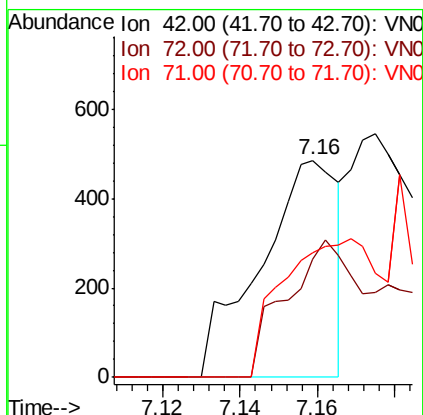
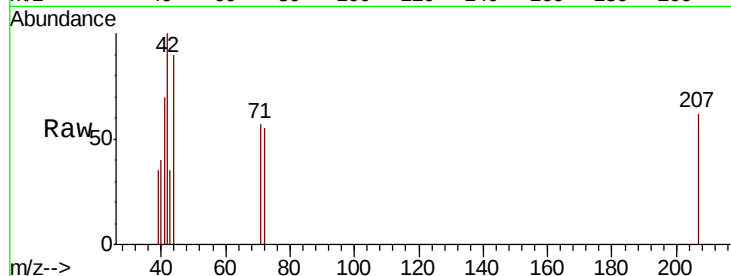




#29
Tetrahydrofuran
Concen: 0.654 ug/l
RT: 7.16 min Scan# 1675
Delta R.T. -0.01 min
Lab File: VN061557.D
Acq: 29 May 2020 11:06

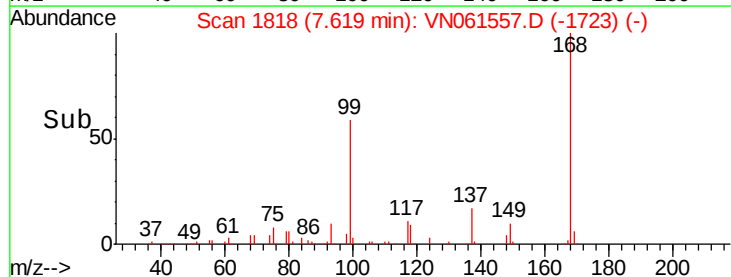
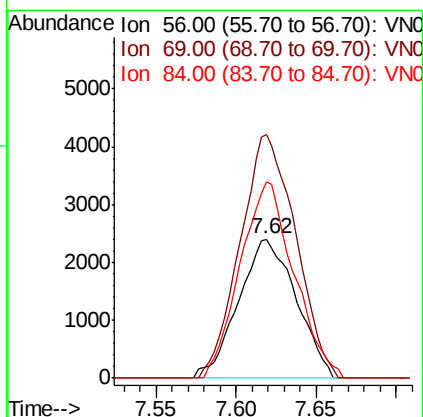
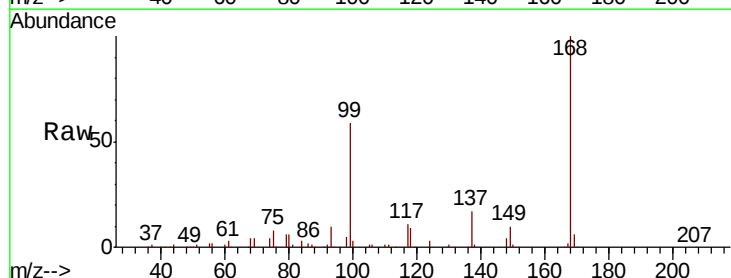
Instrument :
MSVOA_N
ClientSampled :

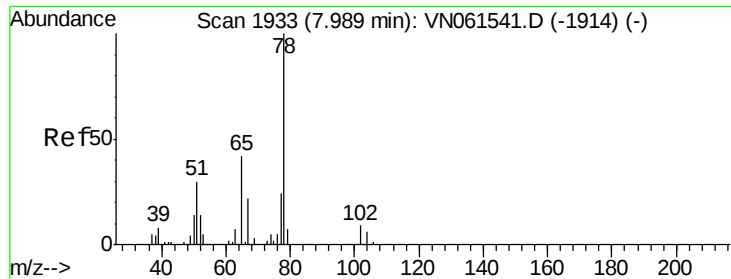
Tot Ion: 42 Resp: 679
Ion Ratio Lower Upper
42 100
72 61.1 43.6 65.4
71 78.9 41.2 61.8#



#31
Cyclohexane
Concen: 1.271 ug/l
RT: 7.62 min Scan# 1818
Delta R.T. 0.01 min
Lab File: VN061557.D
Acq: 29 May 2020 11:06

Tgt Ion: 56 Resp: 5952
Ion Ratio Lower Upper
56 100
69 175.3 27.8 41.8#
84 140.9 79.9 119.9#





#33

1,2-Dichloroethane-d4

Concen: 51.402 ug/l

RT: 7.98 min Scan# 1931

Delta R.T. -0.01 min

Lab File: VN061557.D

Acq: 29 May 2020 11:06

Instrument :

MSVOA_N

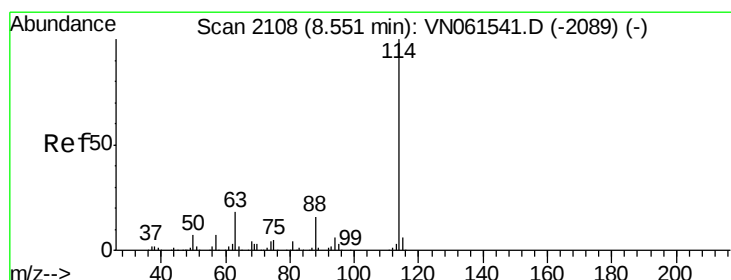
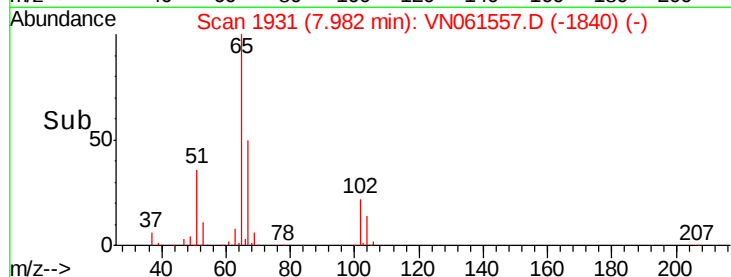
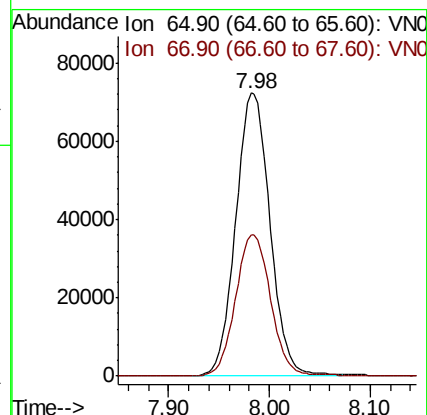
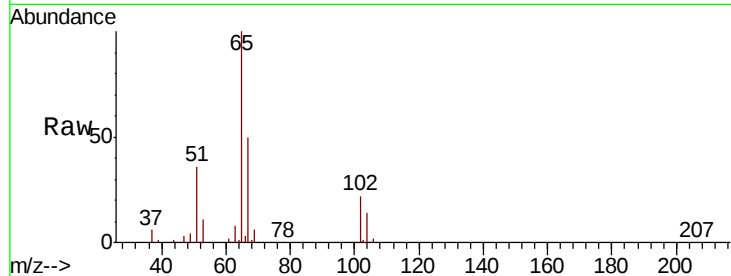
ClientSampleId :

Tot Ion: 65 Resp: 170849

Ion Ratio Lower Upper

65 100

67 51.3 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2107

Delta R.T. -0.00 min

Lab File: VN061557.D

Acq: 29 May 2020 11:06

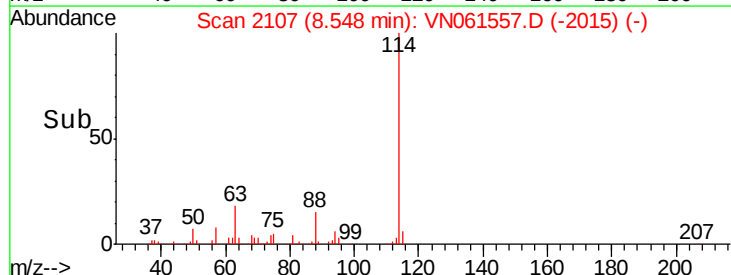
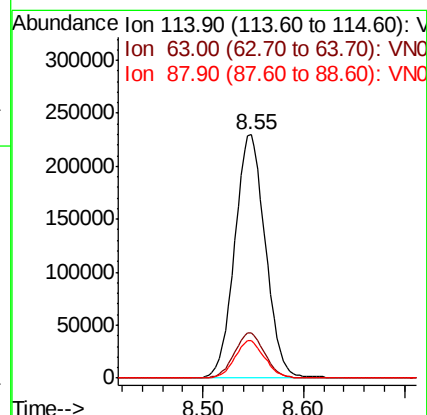
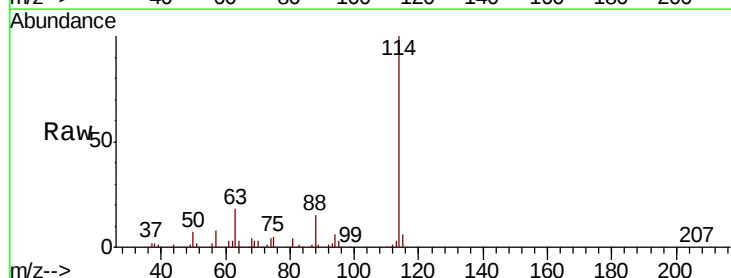
Tgt Ion: 114 Resp: 486118

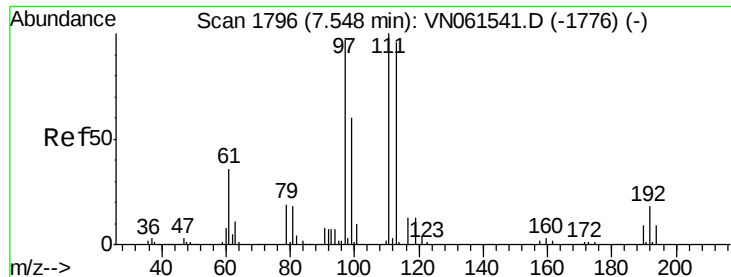
Ion Ratio Lower Upper

114 100

63 18.4 0.0 35.8

88 15.2 0.0 31.0

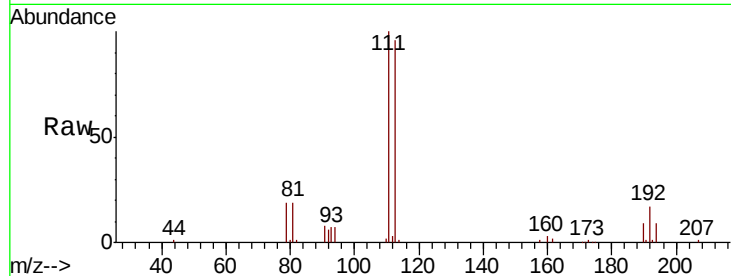




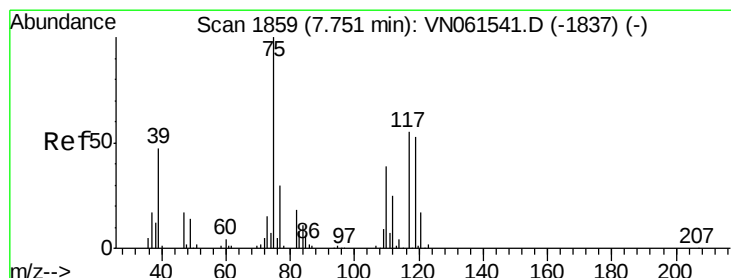
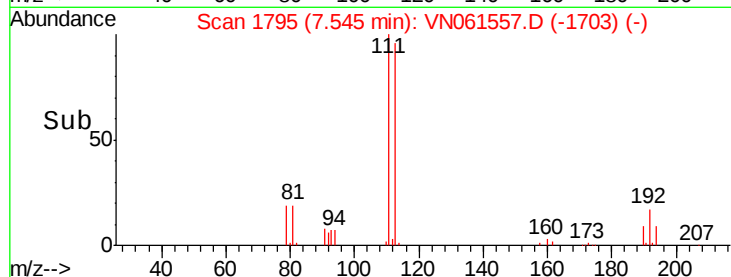
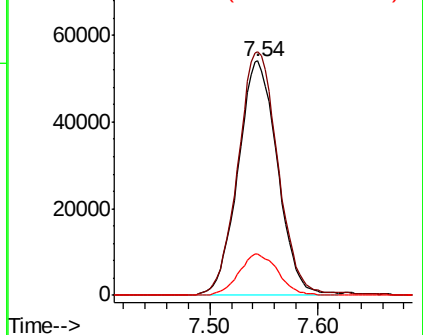
#35
 Dibromofluoromethane
 Concen: 55.733 ug/l
 RT: 7.54 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VN061557.D
 Acq: 29 May 2020 11:06

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	105.7	83.4	125.0
192	17.6	15.4	23.2

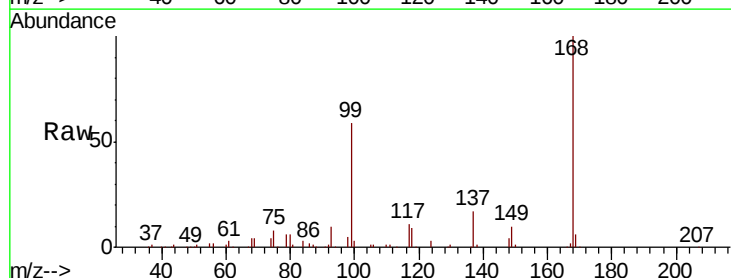


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

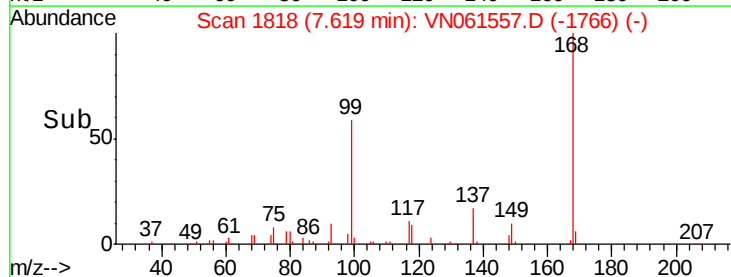
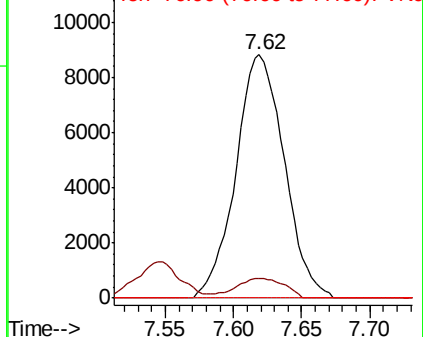


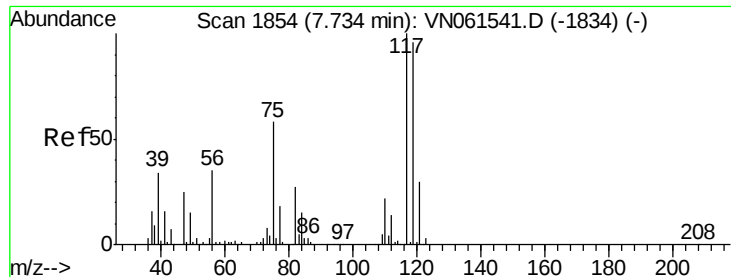
#36
 1,1-Dichloropropene
 Concen: 5.058 ug/l
 RT: 7.62 min Scan# 1818
 Delta R.T. -0.13 min
 Lab File: VN061557.D
 Acq: 29 May 2020 11:06

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.8	19.5	58.5#
77	0.0	24.7	37.1#



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: 6.709 ug/l

RT: 7.62 min Scan# 1818

Delta R.T. -0.12 min

Lab File: VN061557.D

Acq: 29 May 2020 11:06

Instrument :

MSVOA_N

ClientSampleId :

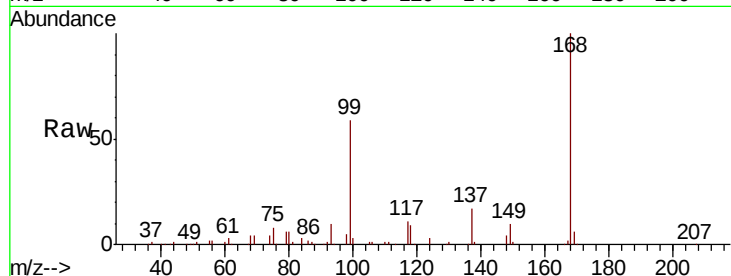
Tot Ion:117 Resp: 27849

Ion Ratio Lower Upper

117 100

119 3.9 76.5 114.7#

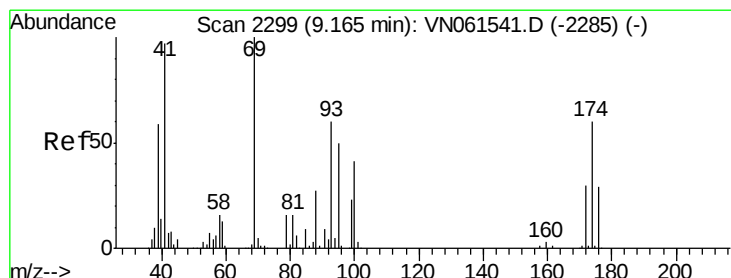
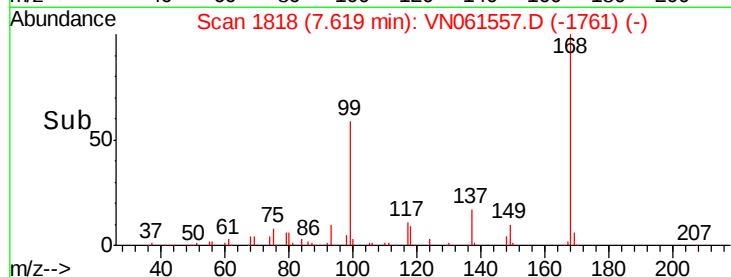
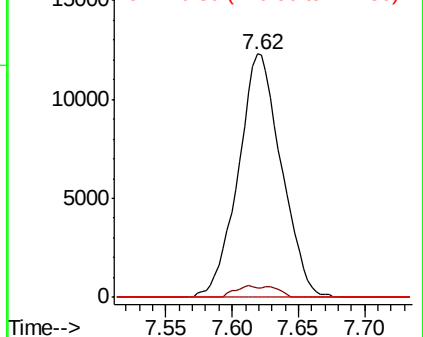
121 0.0 24.1 36.1#



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



#49

1,4-Dioxane

Concen: 3.152 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.00 min

Lab File: VN061557.D

Acq: 29 May 2020 11:06

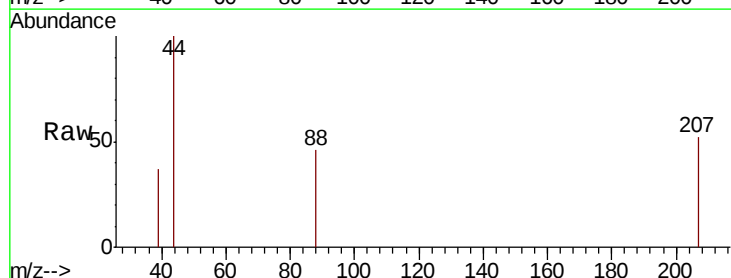
Tgt Ion: 88 Resp: 137

Ion Ratio Lower Upper

88 100

43 0.0 23.1 34.7#

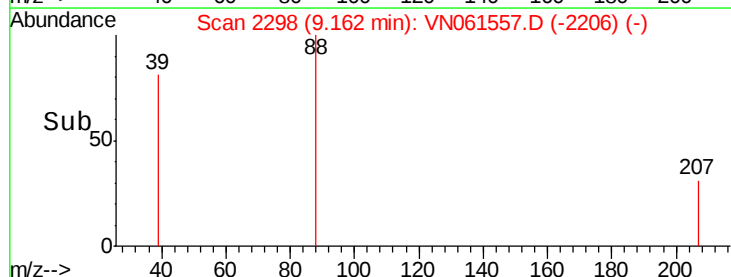
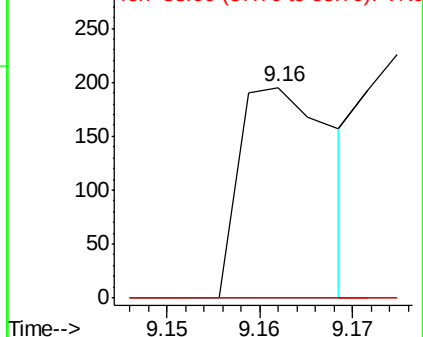
58 0.0 48.3 72.5#

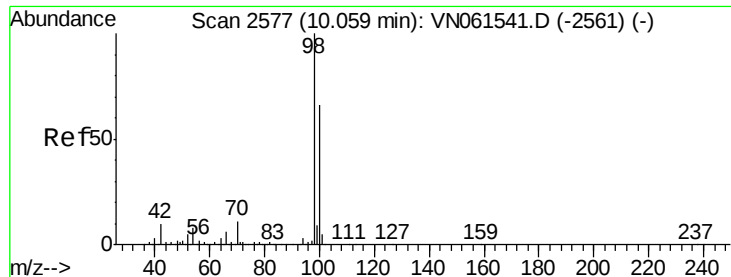


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 50.784 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061557.D

Acq: 29 May 2020 11:06

Instrument :

MSVOA_N

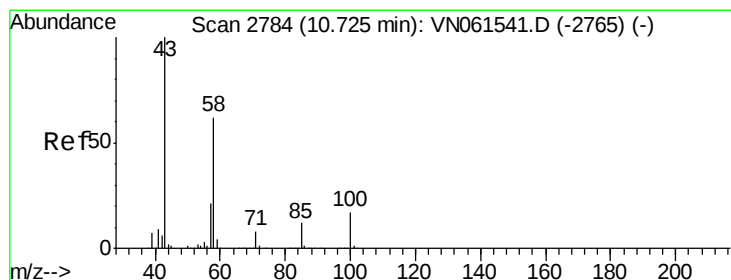
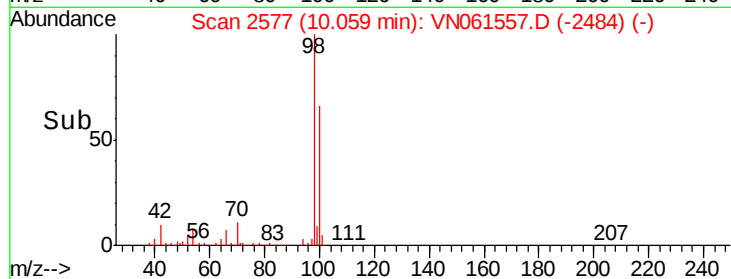
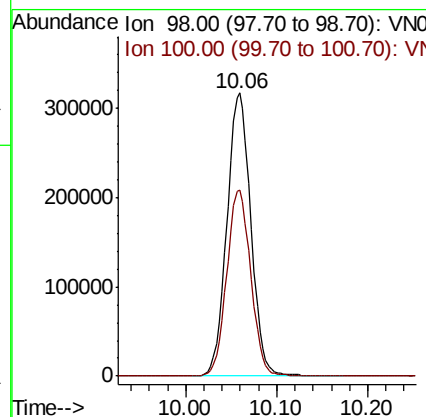
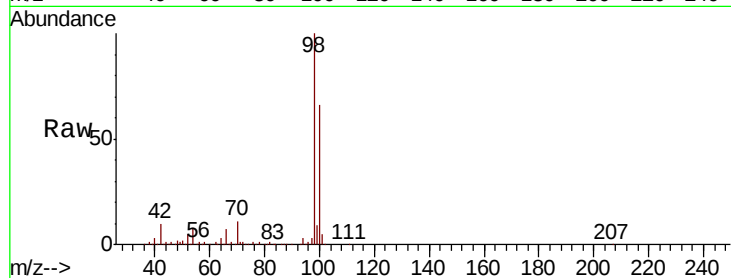
ClientSampled :

Tot Ion: 98 Resp: 580343

Ion Ratio Lower Upper

98 100

100 65.9 52.8 79.2



#59

2-Hexanone

Concen: 0.528 ug/l

RT: 10.73 min Scan# 2786

Delta R.T. 0.01 min

Lab File: VN061557.D

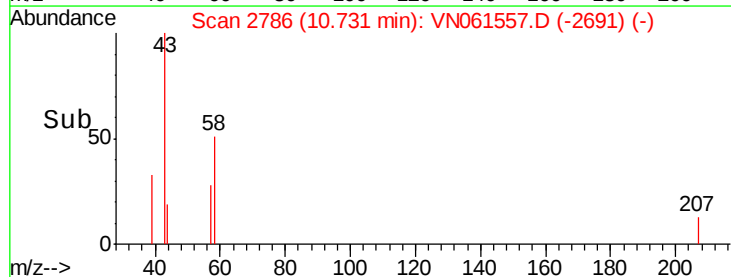
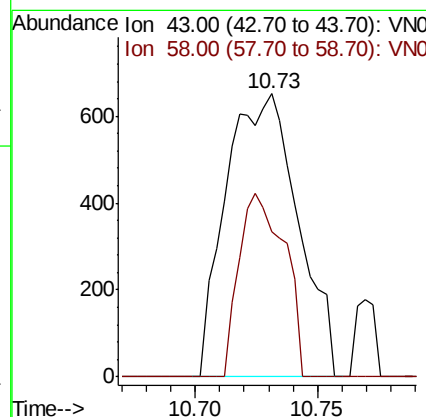
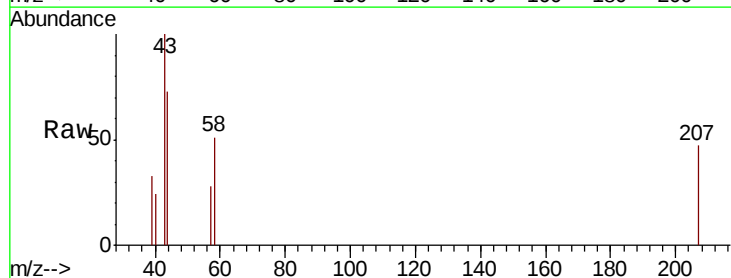
Acq: 29 May 2020 11:06

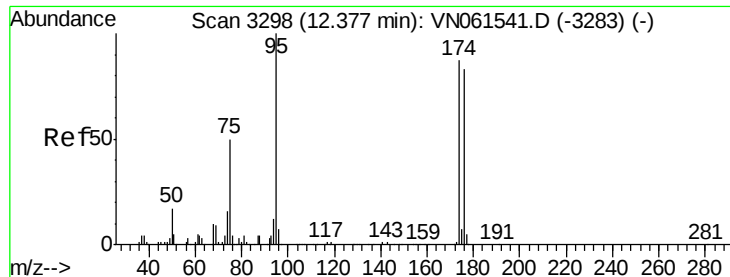
Tgt Ion: 43 Resp: 1332

Ion Ratio Lower Upper

43 100

58 41.0 30.7 92.1





#62

4-Bromofluorobenzene

Concen: 47.858 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN061557.D

Acq: 29 May 2020 11:06

Instrument :

MSVOA_N

ClientSampleId :

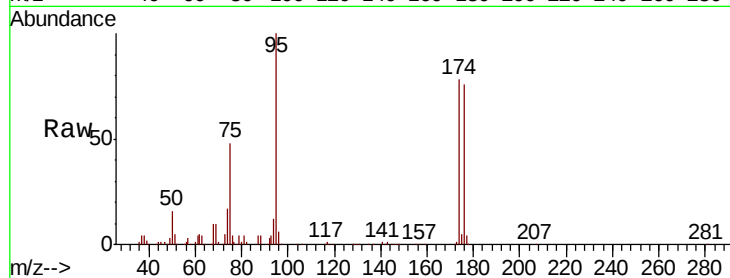
Tot Ion: 95 Resp: 199529

Ion Ratio Lower Upper

95 100

174 76.4 0.0 172.8

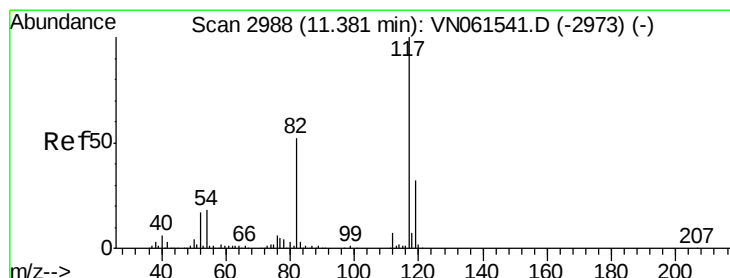
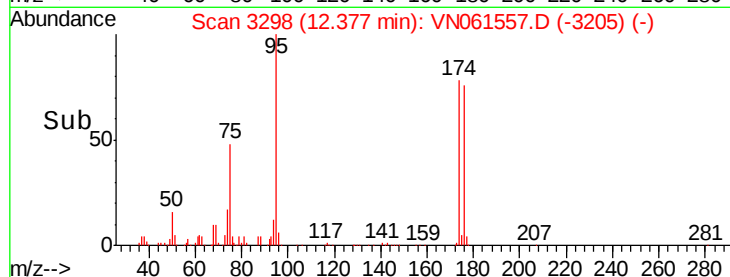
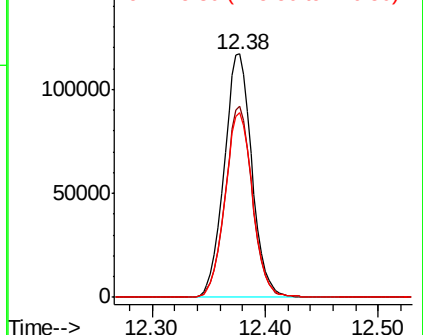
176 75.8 0.0 164.8



Abundance Ion 94.90 (94.60 to 95.60): VN061541.D (-3283) (-)

Ion 173.80 (173.50 to 174.50): VN061541.D (-3283) (-)

Ion 175.80 (175.50 to 176.50): VN061541.D (-3283) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN061557.D

Acq: 29 May 2020 11:06

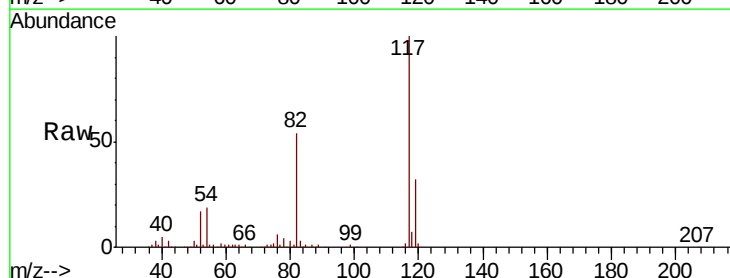
Tgt Ion: 117 Resp: 451609

Ion Ratio Lower Upper

117 100

82 53.8 41.5 62.3

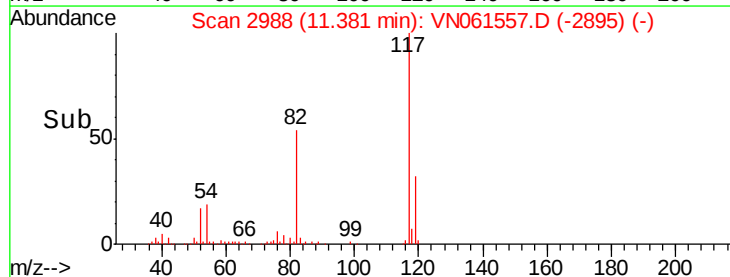
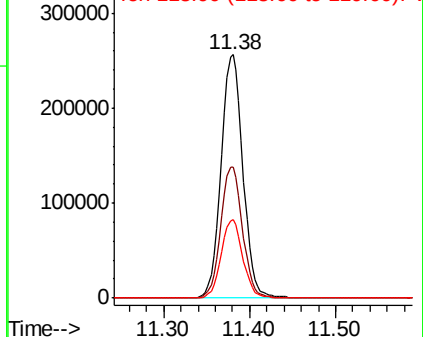
119 32.2 25.6 38.4

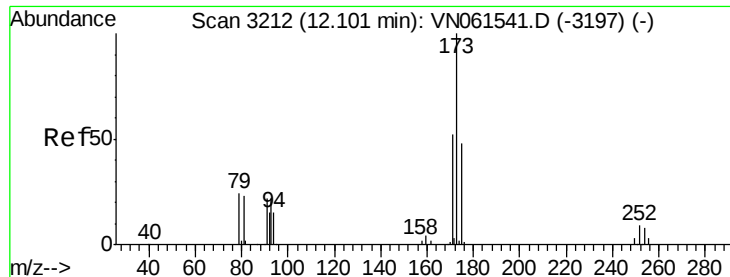


Abundance Ion 116.90 (116.60 to 117.60): VN061541.D (-2973) (-)

Ion 82.00 (81.70 to 82.70): VN061541.D (-2973) (-)

Ion 118.90 (118.60 to 119.60): VN061541.D (-2973) (-)





#71

Bromoform

Concen: 0.593 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061557.D

Acq: 29 May 2020 11:06

Instrument :

MSVOA_N

ClientSampleId :

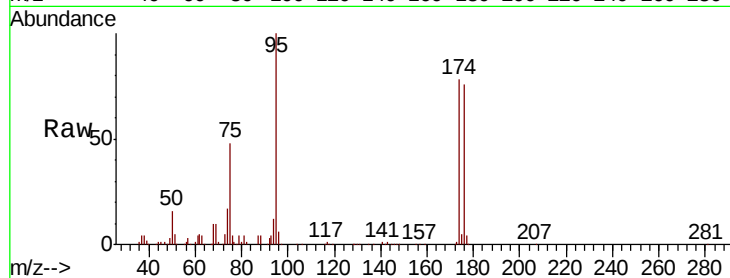
Tot Ion:173 Resp: 1598

Ion Ratio Lower Upper

173 100

175 597.2 24.4 73.2#

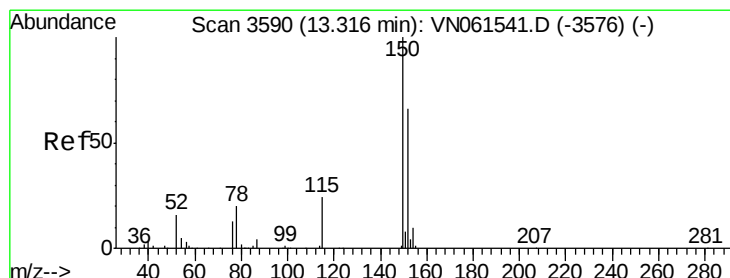
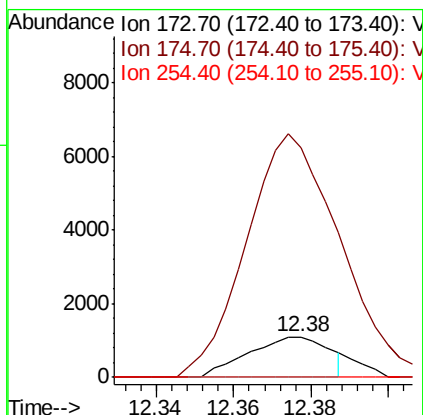
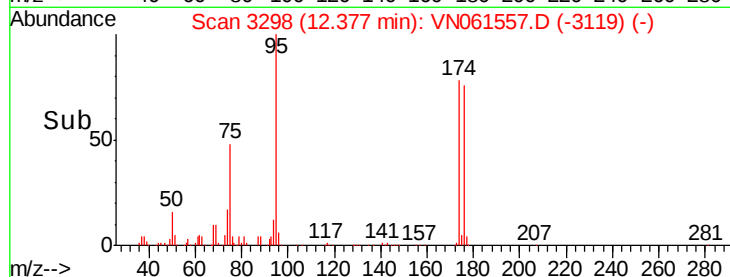
254 0.0 0.0 0.0



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: VN061557.D

Acq: 29 May 2020 11:06

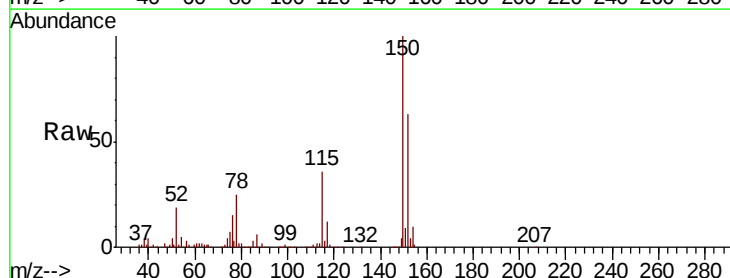
Tgt Ion:152 Resp: 176175

Ion Ratio Lower Upper

152 100

115 58.4 28.0 84.0

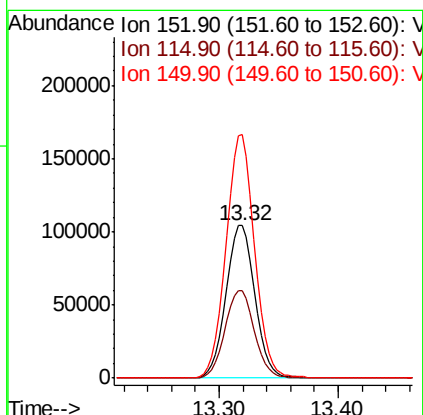
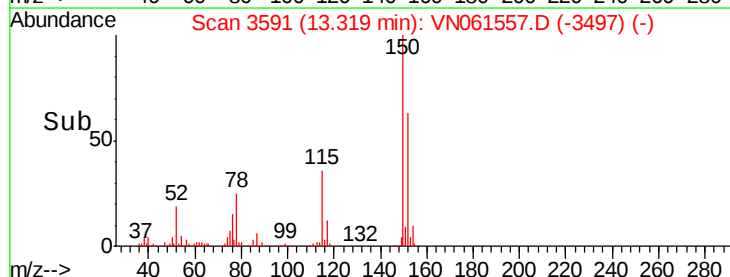
150 156.9 0.0 344.0

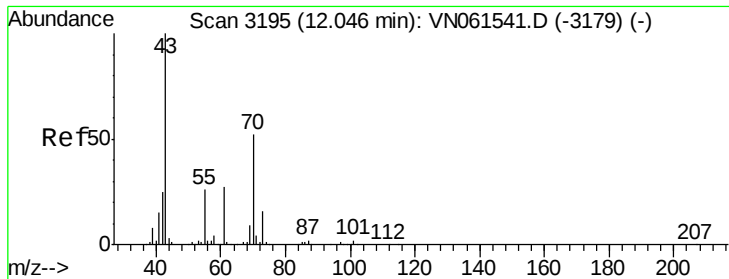


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.205 ug/l

RT: 12.05 min Scan# 3196

Delta R.T. 0.00 min

Lab File: VN061557.D

Acq: 29 May 2020 11:06

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 832

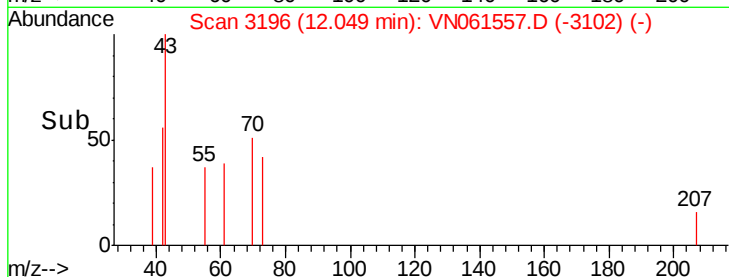
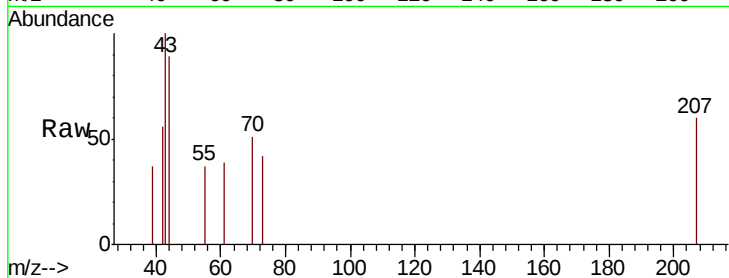
Ion Ratio Lower Upper

43 100

70 18.8 40.5 60.7#

55 16.6 20.6 31.0#

61 7.6 21.8 32.6#

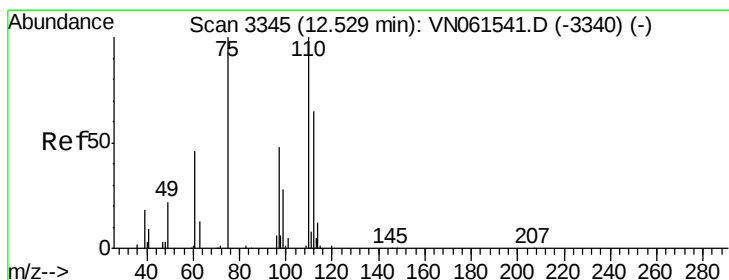
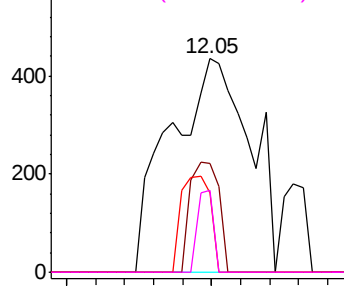


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 31.066 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061557.D

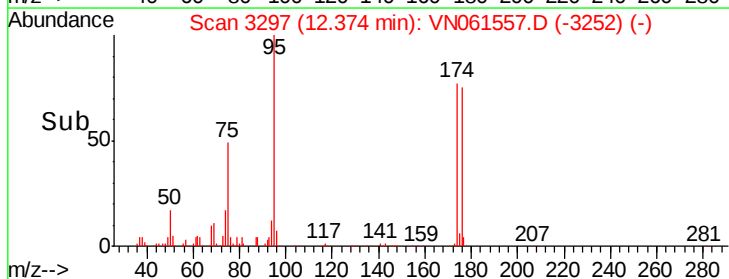
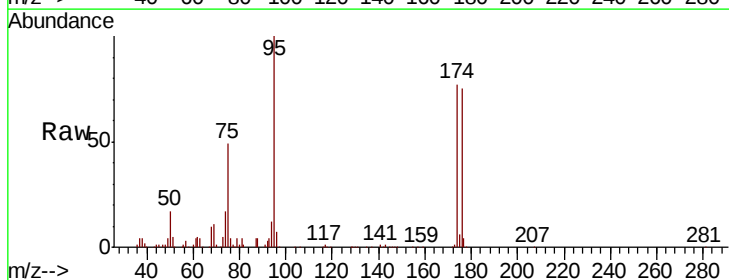
Acq: 29 May 2020 11:06

Tgt Ion: 75 Resp: 99521

Ion Ratio Lower Upper

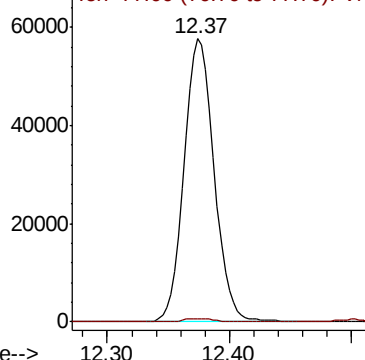
75 100

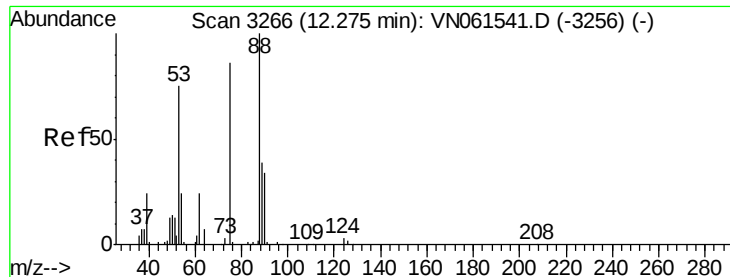
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

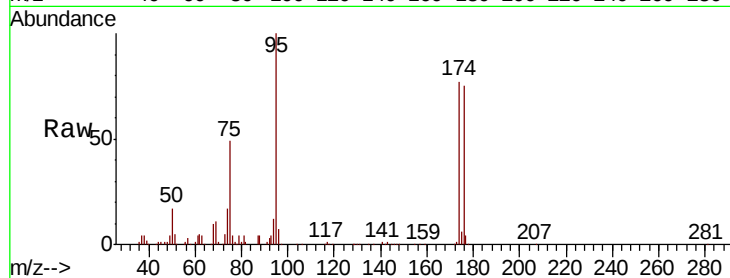




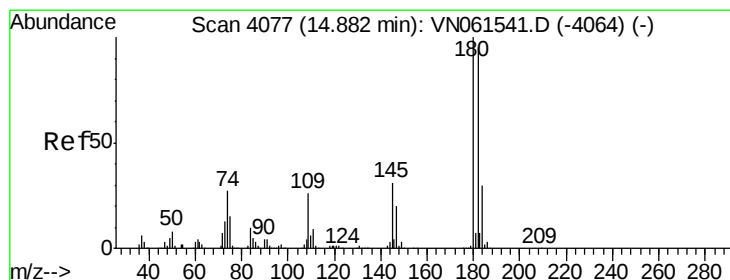
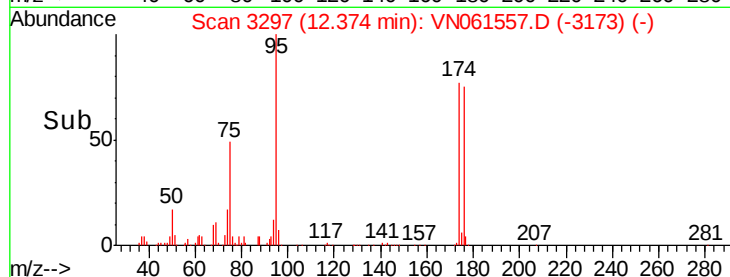
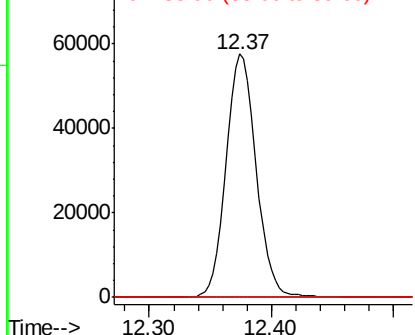
#81
trans-1,4-Dichloro-2-butene
Concen: 79.444 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.10 min
Lab File: VN061557.D
Acq: 29 May 2020 11:06

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 75 Resp: 99521
Ion Ratio Lower Upper
75 100
53 0.0 67.8 101.8#
89 0.0 37.1 55.7#

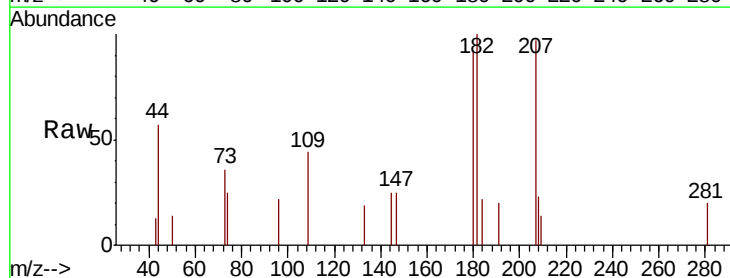


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

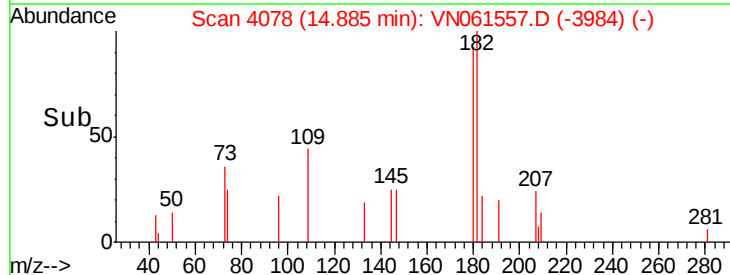
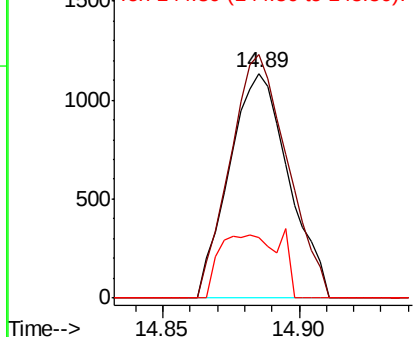


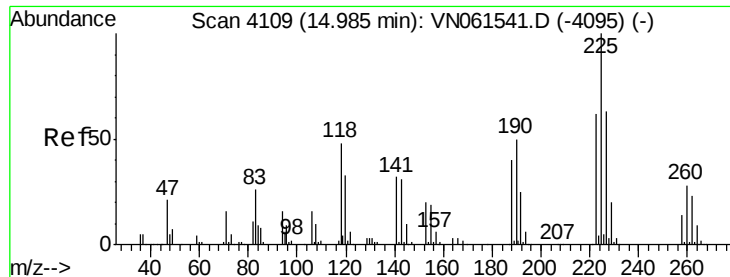
#93
1,2,4-Trichlorobenzene
Concen: 0.527 ug/l
RT: 14.89 min Scan# 4078
Delta R.T. 0.00 min
Lab File: VN061557.D
Acq: 29 May 2020 11:06

Tgt Ion: 180 Resp: 1711
Ion Ratio Lower Upper
180 100
182 105.0 47.8 143.3
145 29.2 15.5 46.5



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V

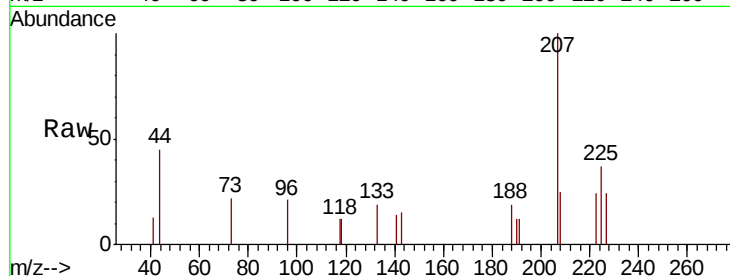




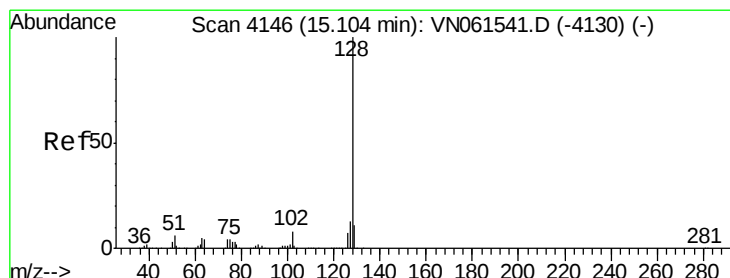
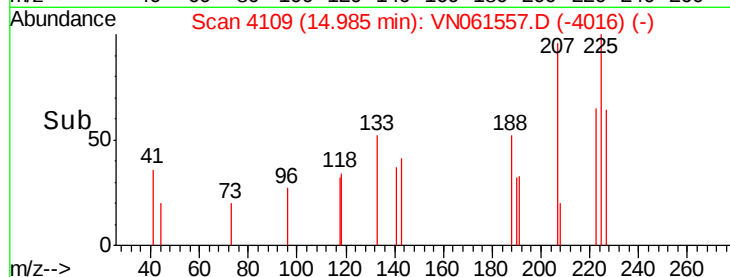
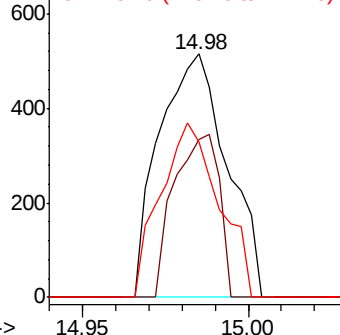
#94
Hexachlorobutadiene
Concen: 0.530 ug/l
RT: 14.98 min Scan# 4109
Delta R.T. -0.00 min
Lab File: VN061557.D
Acq: 29 May 2020 11:06

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:225 Resp: 734
Ion Ratio Lower Upper
225 100
223 44.3 31.9 95.5
227 61.9 31.9 95.9

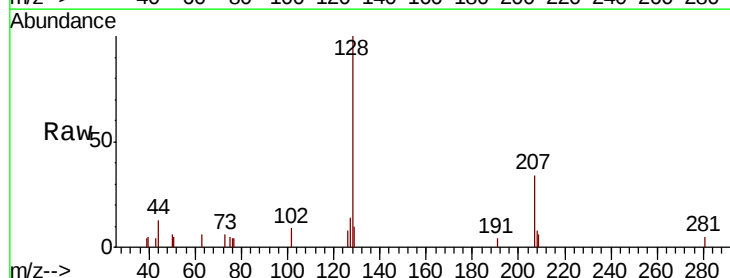


Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V

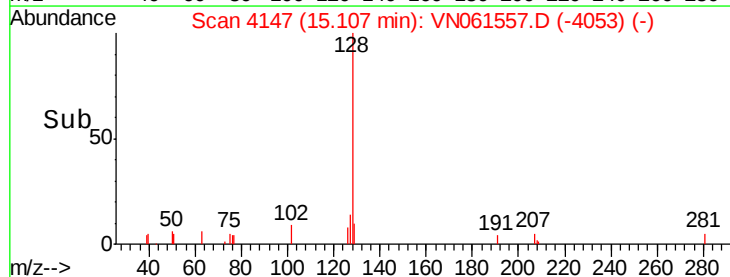
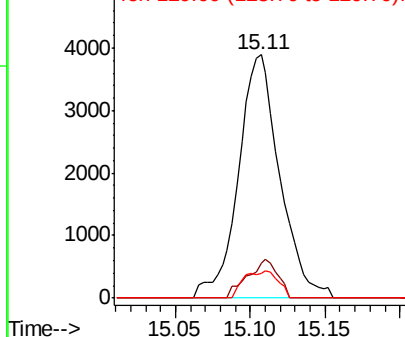


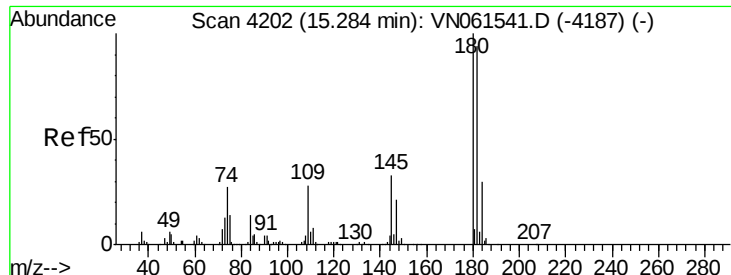
#95
Naphthalene
Concen: 0.758 ug/l
RT: 15.11 min Scan# 4147
Delta R.T. 0.00 min
Lab File: VN061557.D
Acq: 29 May 2020 11:06

Tgt Ion:128 Resp: 7497
Ion Ratio Lower Upper
128 100
127 11.6 10.0 15.0
129 9.3 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

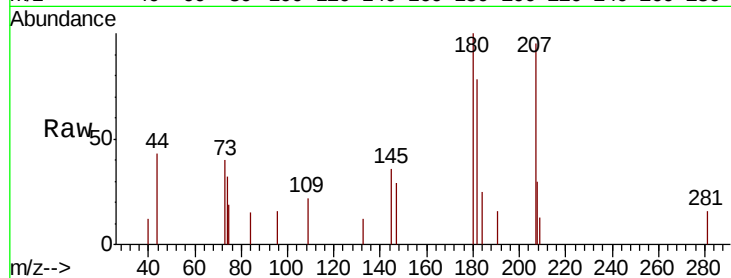




#96
 1,2,3-Trichlorobenzene
 Concen: 0.724 ug/l
 RT: 15.28 min Scan# 4202
 Delta R.T. -0.00 min
 Lab File: VN061557.D
 Acq: 29 May 2020 11:06

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	79.3	47.1	141.3
145	25.3	16.3	48.9



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

