

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051820\
 Data File : VN061458.D
 Acq On : 19 May 2020 4:36
 Operator : JC/MD
 Sample : L2506-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 19 05:07:51 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	273364	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	514964	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	513917	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	221070	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	202717	49.69	ug/l	0.00
Spiked Amount			Recovery	=	99.38%	
35) Dibromofluoromethane	7.55	113	150089	55.63	ug/l	0.00
Spiked Amount			Recovery	=	111.26%	
50) Toluene-d8	10.06	98	660148	52.76	ug/l	0.00
Spiked Amount			Recovery	=	105.52%	
62) 4-Bromofluorobenzene	12.38	95	254507	54.44	ug/l	0.00
Spiked Amount			Recovery	=	108.88%	

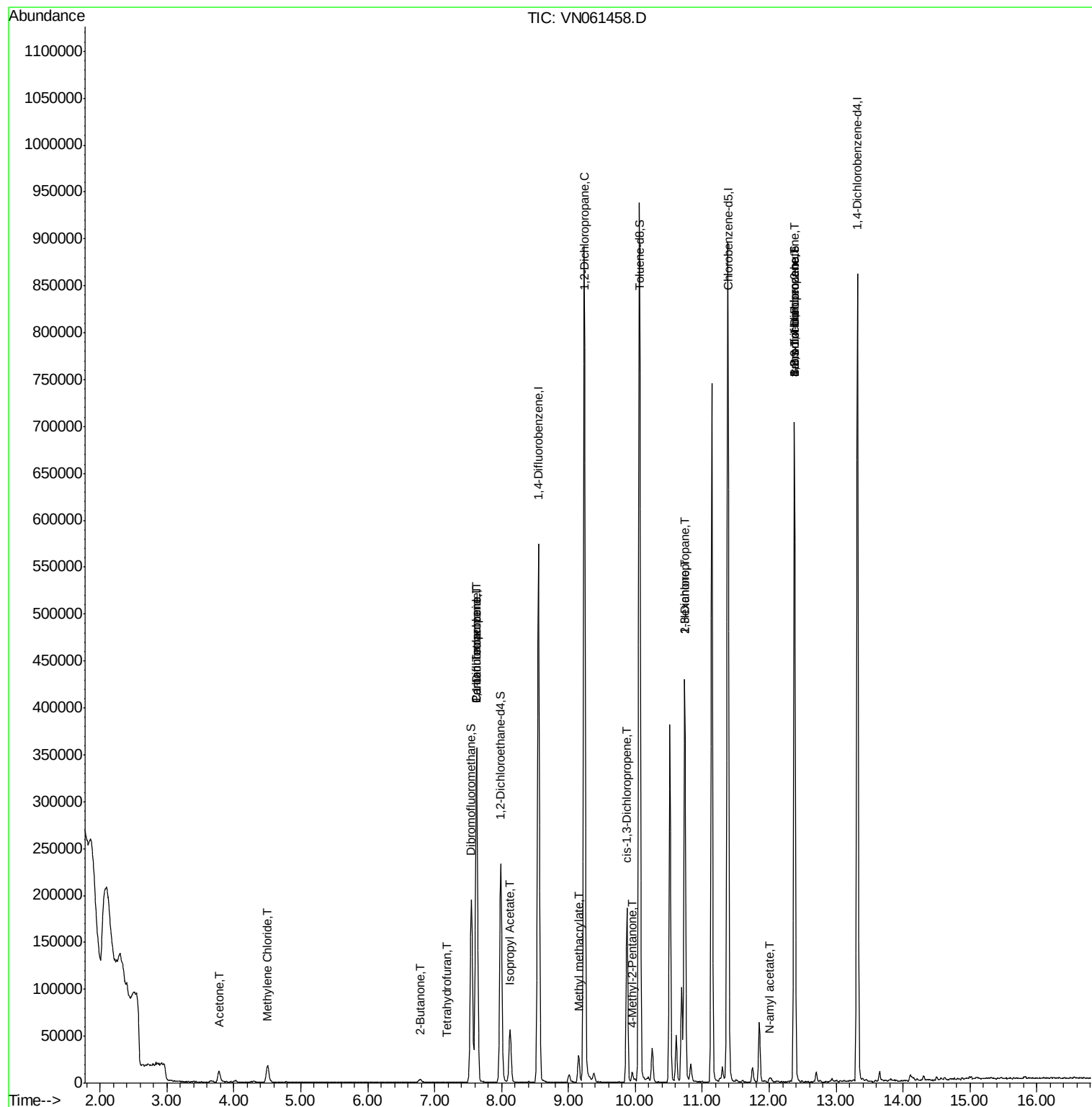
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	961	Below Cal	#	60
16) Acetone	3.78	43	20024	8.115	ug/l	96
17) Carbon Disulfide	4.00	76	795	Below Cal	#	75
18) Methyl Acetate	4.28	43	2729	Below Cal	#	58
20) Methylene Chloride	4.51	84	13409	3.999	ug/l	97
25) 2-Butanone	6.80	43	2847	1.533	ug/l	99
29) Tetrahydrofuran	7.18	42	349	0.284	ug/l #	29
31) Cyclohexane	7.63	56	6517	Below Cal	#	16
36) 1,1-Dichloropropene	7.63	75	23248	4.828	ug/l #	51
38) Carbon Tetrachloride	7.63	117	29510	6.656	ug/l #	15
43) Isopropyl Acetate	8.13	43	68694	9.019	ug/l #	89
45) 1,2-Dichloropropane	9.24	63	1144	0.315	ug/l #	43
48) Methyl methacrylate	9.15	41	4167	1.184	ug/l #	9
51) 4-Methyl-2-Pentanone	9.95	43	7652	1.844	ug/l	90
54) cis-1,3-Dichloropropene	9.88	75	36406	5.824	ug/l #	60
57) 1,3-Dichloropropane	10.74	76	4782	0.786	ug/l #	42
59) 2-Hexanone	10.74	43	61969	20.644	ug/l #	48
71) Bromoform	12.37	173	628	2.226	ug/l #	1
74) N-amyl acetate	12.00	43	3192	0.491	ug/l #	44
76) 1,2,3-Trichloropropane	12.38	75	136420	28.759	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	136420	76.290	ug/l #	12

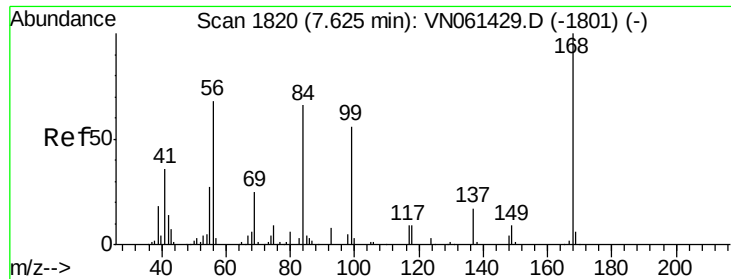
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN061458.D

Acq: 19 May 2020 4:36

Instrument :

MSVOA_N

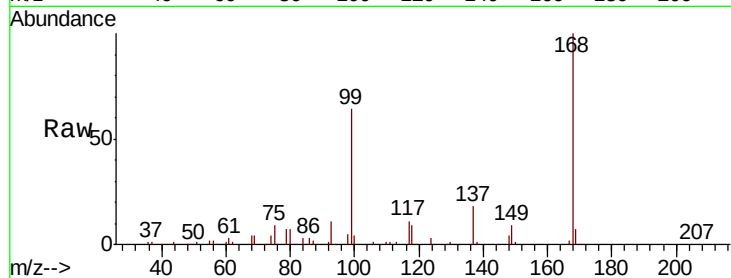
ClientSampleId :

Tot Ion:168 Resp: 273364

Ion Ratio Lower Upper

168 100

99 64.3 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): VN061429.D (-1801) (-)

Ion 98.90 (98.60 to 99.60): VN061429.D (-1801) (-)

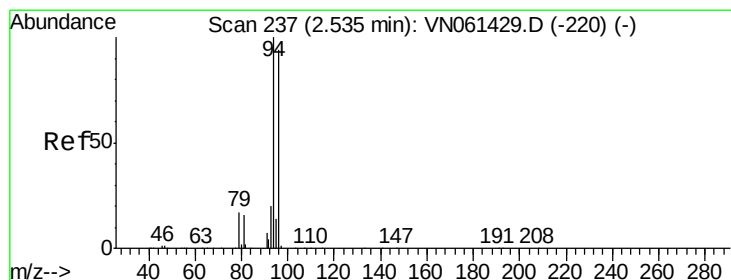
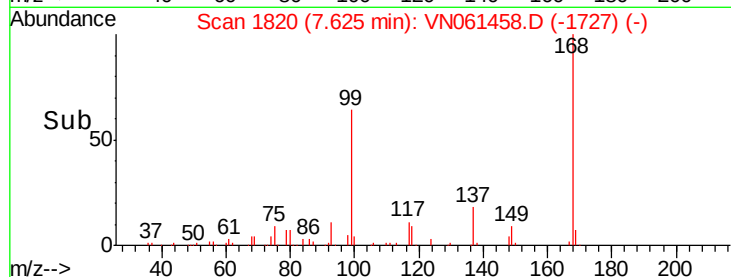
7.63

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 240

Delta R.T. 0.01 min

Lab File: VN061458.D

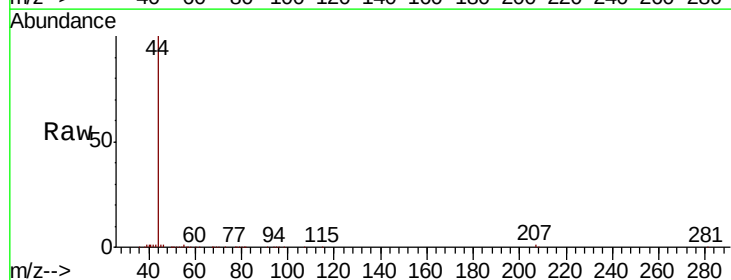
Acq: 19 May 2020 4:36

Tgt Ion: 94 Resp: 961

Ion Ratio Lower Upper

94 100

96 55.0 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VN061429.D (-220) (-)

Ion 95.90 (95.60 to 96.60): VN061429.D (-220) (-)

2.55

400

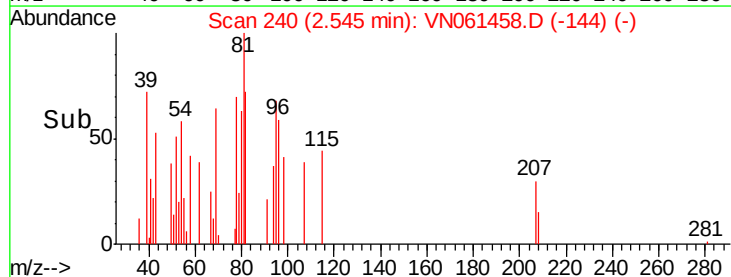
300

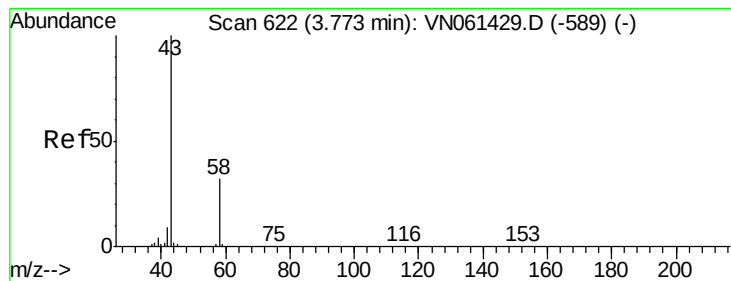
200

100

0

Time-->





#16

Acetone

Concen: 8.115 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN061458.D

Acq: 19 May 2020 4:36

Instrument :

MSVOA_N

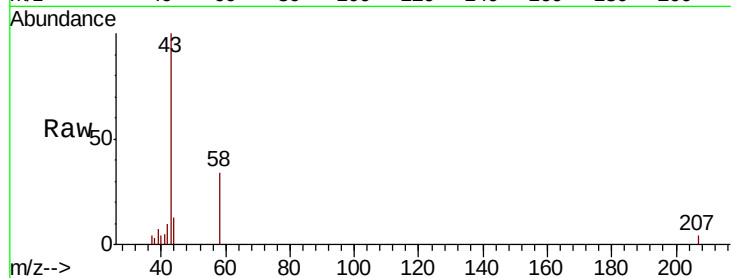
ClientSampleId :

Tot Ion: 43 Resp: 20024

Ion Ratio Lower Upper

43 100

58 34.0 25.6 38.4



Abundance Ion 43.00 (42.70 to 43.70): VN061429.D (-589) (-)

Ion 58.00 (57.70 to 58.70): VN061429.D (-589) (-)

3.78

8000

6000

4000

2000

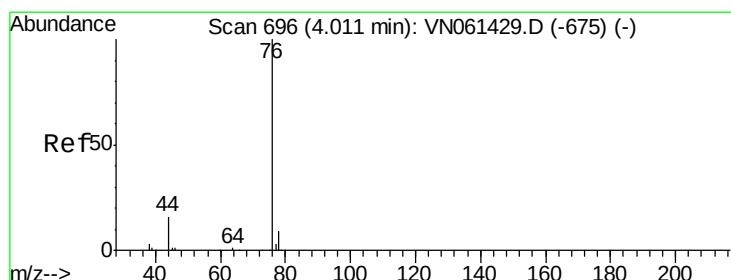
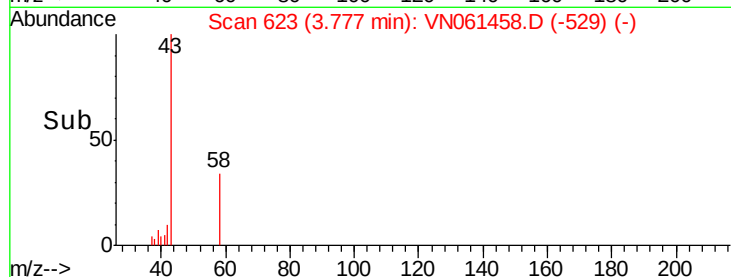
0

Time-->

3.70

3.80

3.90



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.00 min Scan# 694

Delta R.T. -0.01 min

Lab File: VN061458.D

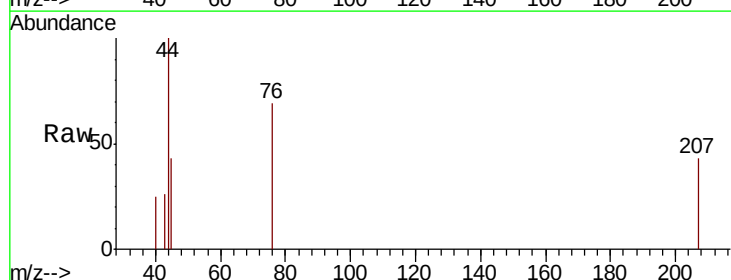
Acq: 19 May 2020 4:36

Tgt Ion: 76 Resp: 795

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN061429.D (-675) (-)

Ion 77.90 (77.60 to 78.60): VN061429.D (-675) (-)

4.00

600

500

400

300

200

100

0

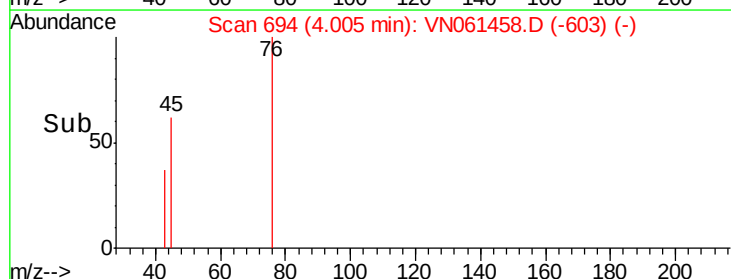
Time-->

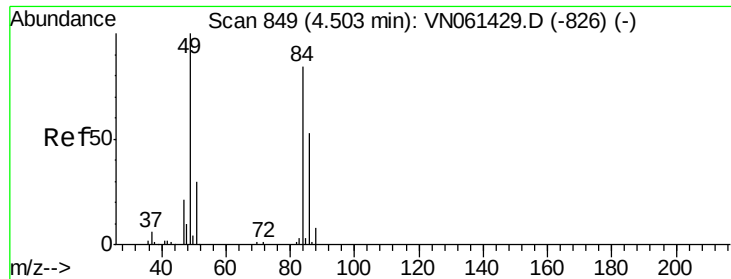
3.96

3.98

4.00

4.02

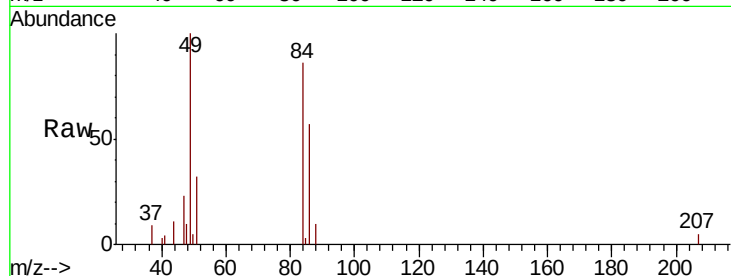




#20
Methvlene Chloride
Concen: 3.999 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.00 min
Lab File: VN061458.D
Acq: 19 May 2020 4:36

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	84	Resp:	13409
Ion	Ratio	Lower	Upper
84	100		
49	116.9	95.3	142.9
51	37.2	29.0	43.6
86	66.9	50.2	75.2



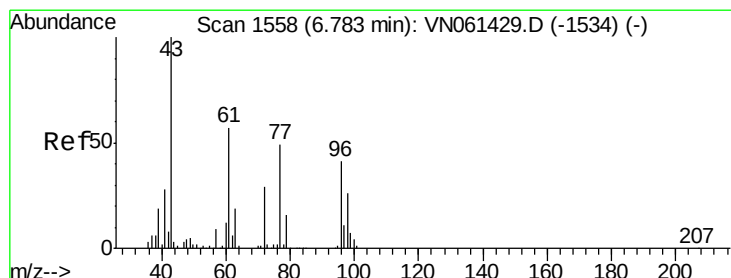
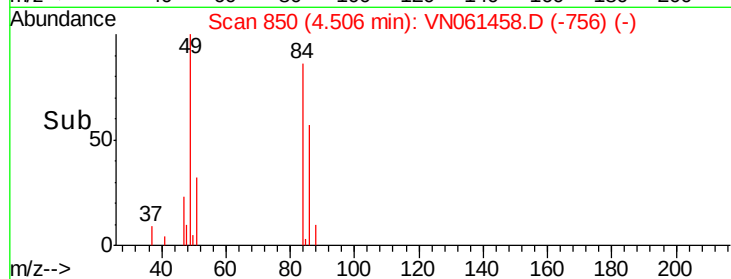
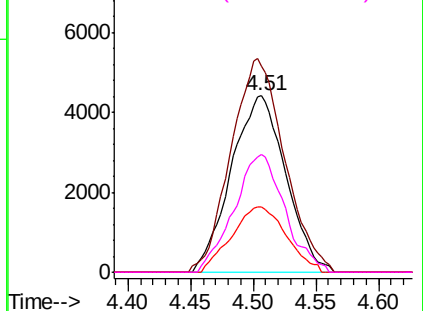
Abundance

Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

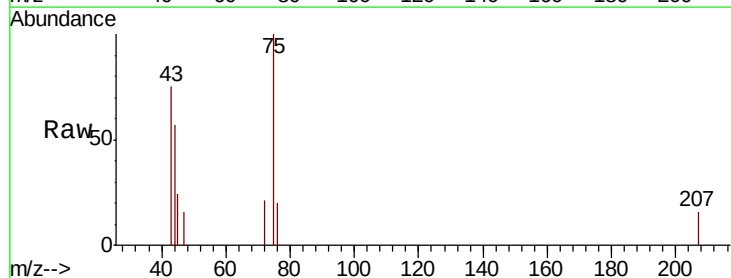
Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25
2-Butanone
Concen: 1.533 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN061458.D
Acq: 19 May 2020 4:36

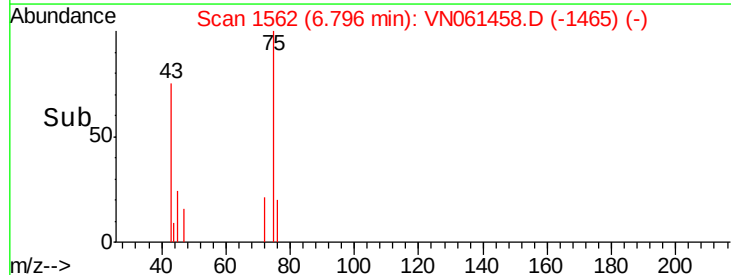
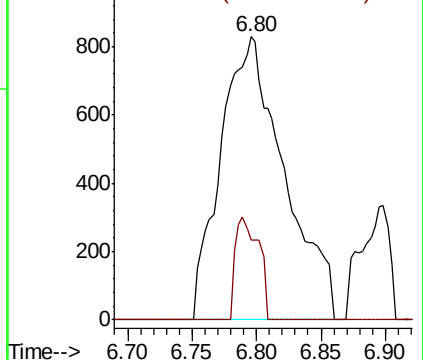
Tgt Ion:	43	Resp:	2847
Ion	Ratio	Lower	Upper
43	100		
72	28.1	23.0	34.6

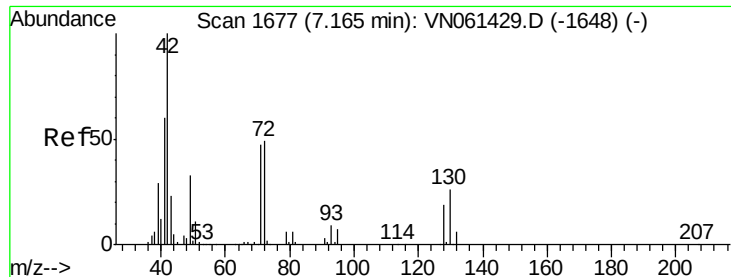


Abundance

Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

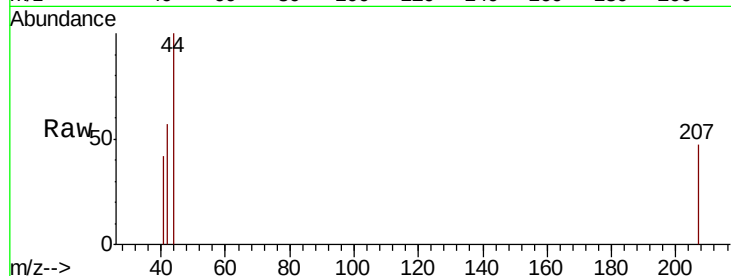




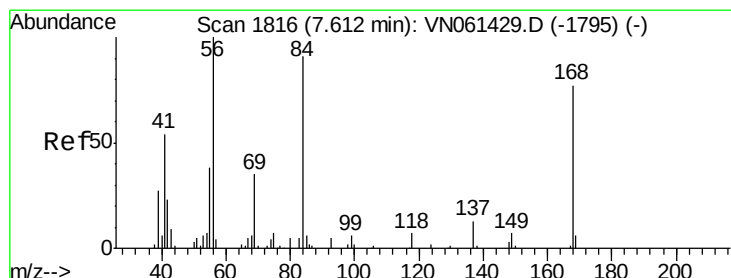
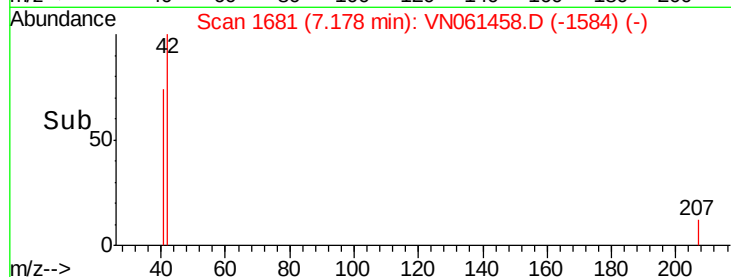
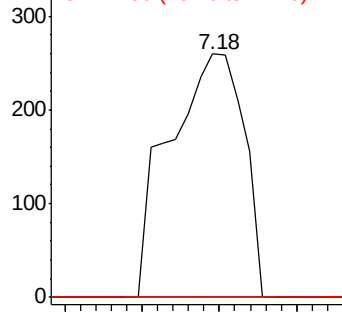
#29
Tetrahydrofuran
Concen: 0.284 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VN061458.D
Acq: 19 May 2020 4:36

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 42 Resp: 349
Ion Ratio Lower Upper
42 100
72 0.0 39.0 58.6#
71 0.0 36.9 55.3#

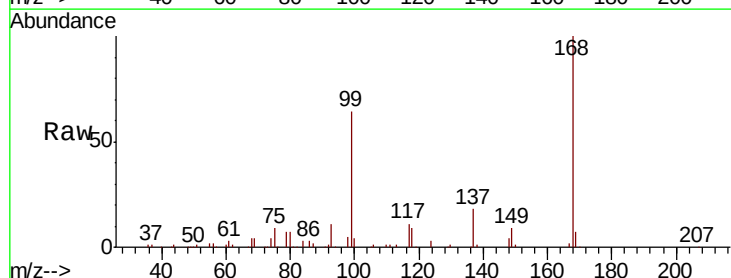


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

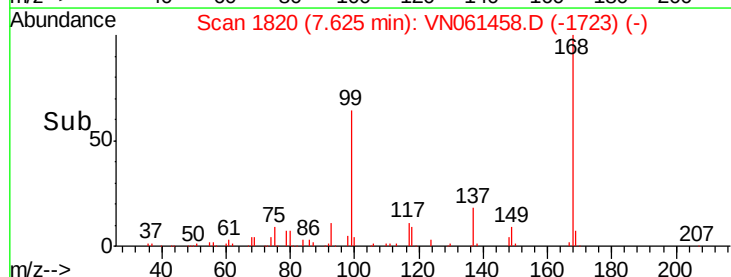
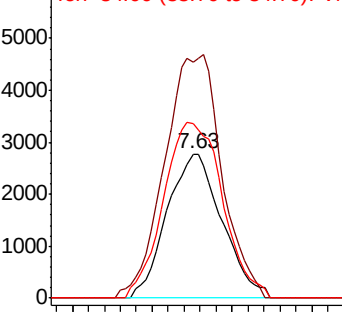


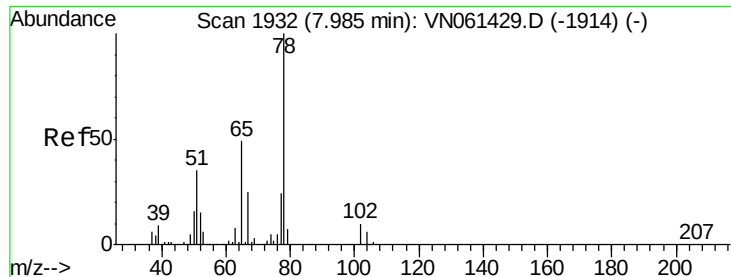
#31
Cyclohexane
Concen: Below Cal
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061458.D
Acq: 19 May 2020 4:36

Tgt Ion: 56 Resp: 6517
Ion Ratio Lower Upper
56 100
69 163.7 27.8 41.6#
84 120.7 72.7 109.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

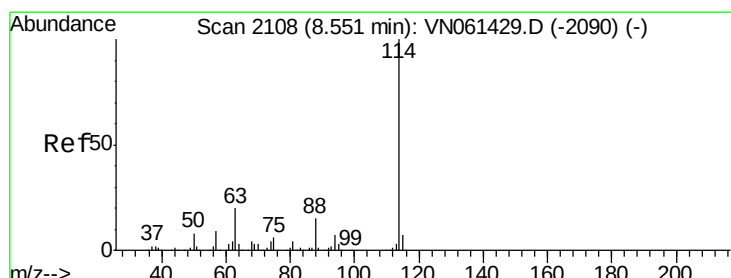
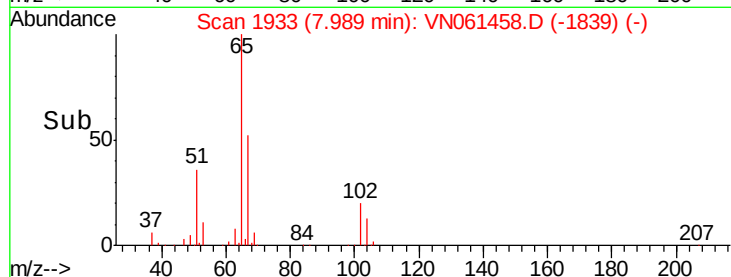
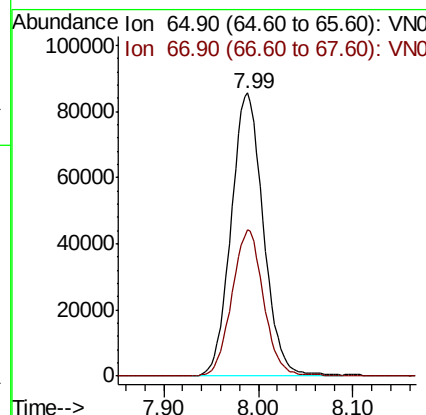
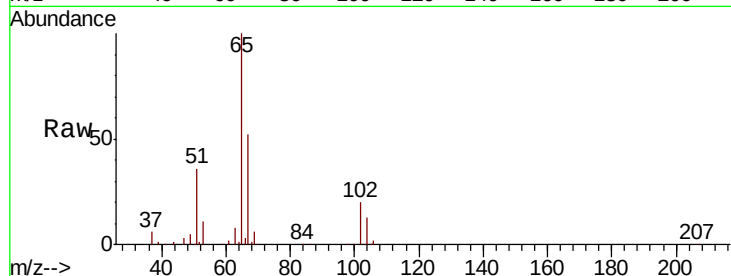




#33
 1,2-Dichloroethane-d4
 Concen: 49.688 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN061458.D
 Acq: 19 May 2020 4:36

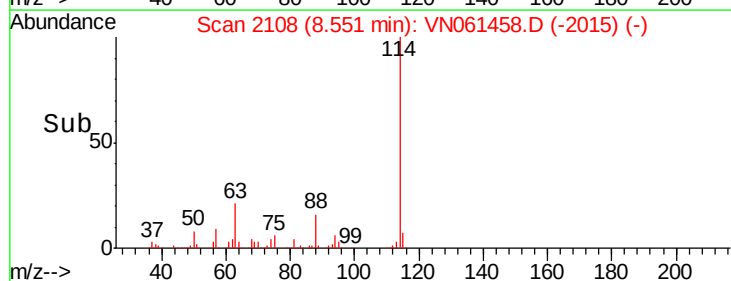
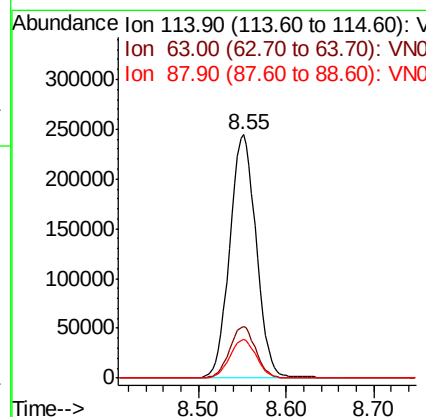
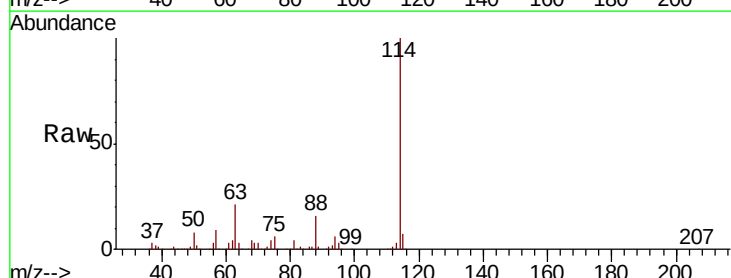
Instrument :
 MSVOA_N
 ClientSampled :

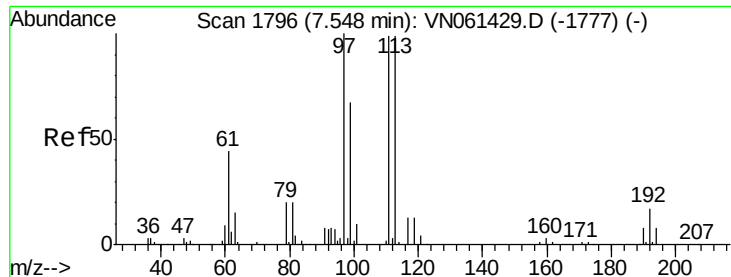
Tot Ion: 65 Resp: 202717
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061458.D
 Acq: 19 May 2020 4:36

Tgt Ion: 114 Resp: 514964
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 40.8
 88 16.0 0.0 30.8





#35

Dibromofluoromethane

Concen: 55.635 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN061458.D

Acq: 19 May 2020 4:36

Instrument :
MSVOA_N
ClientSampled :

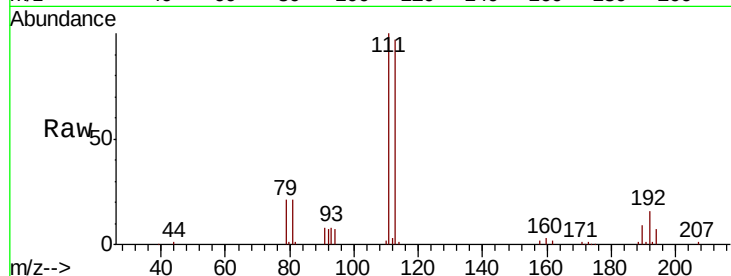
Tot Ion:113 Resp: 150089

Ion Ratio Lower Upper

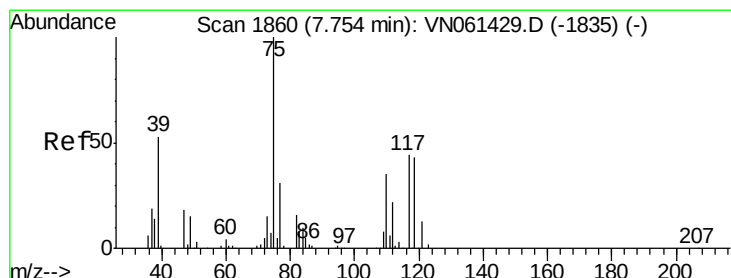
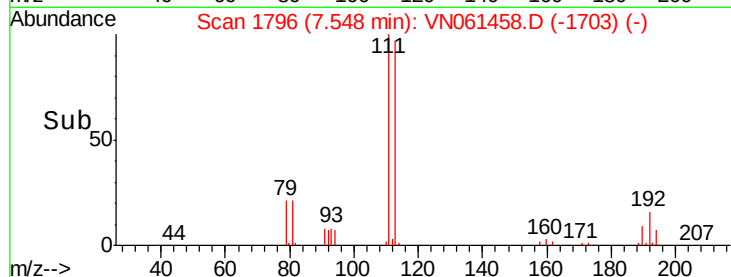
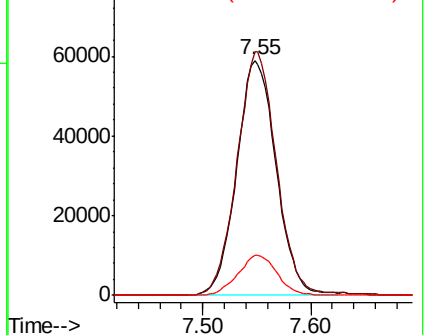
113 100

111 103.7 80.6 121.0

192 16.7 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: 4.828 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN061458.D

Acq: 19 May 2020 4:36

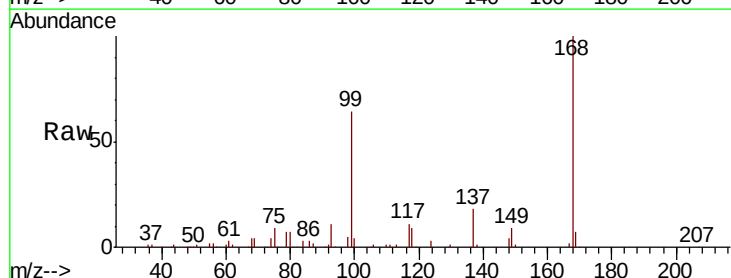
Tgt Ion: 75 Resp: 23248

Ion Ratio Lower Upper

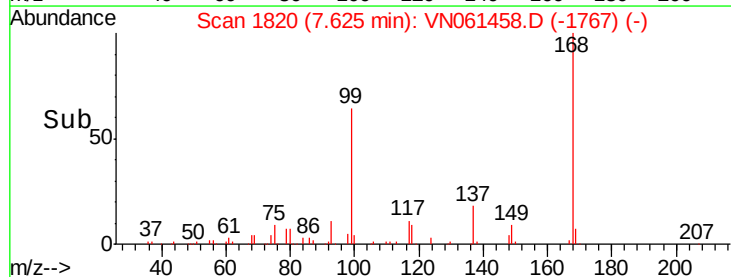
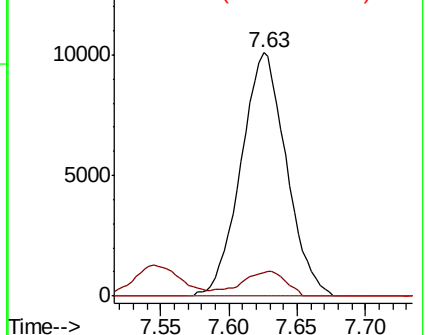
75 100

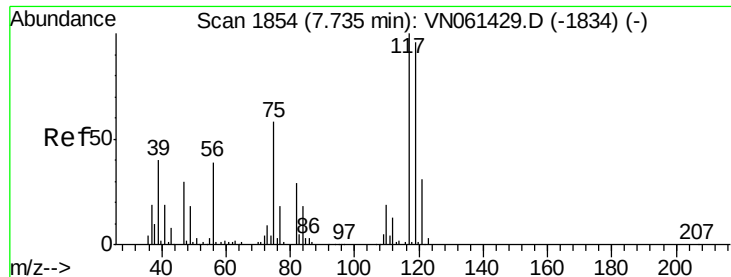
110 10.1 17.3 51.9#

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: 6.656 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061458.D

Acq: 19 May 2020 4:36

Instrument :

MSVOA_N

ClientSampled :

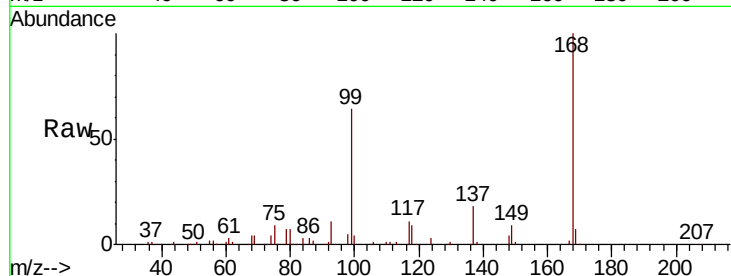
Tot Ion:117 Resp: 29510

Ion Ratio Lower Upper

117 100

119 4.2 77.0 115.6#

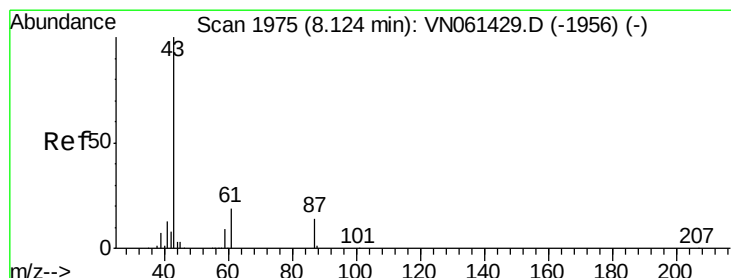
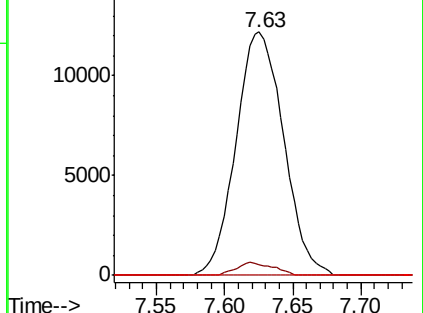
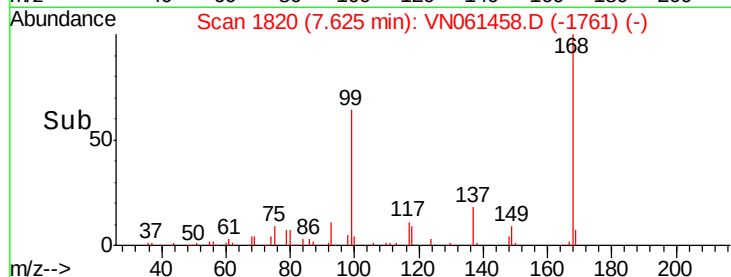
121 0.0 24.7 37.1#



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: 9.019 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061458.D

Acq: 19 May 2020 4:36

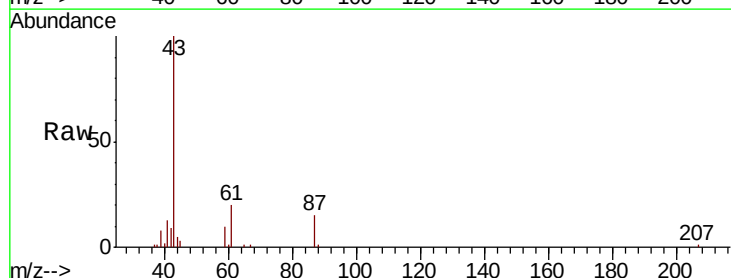
Tgt Ion: 43 Resp: 68694

Ion Ratio Lower Upper

43 100

61 20.8 23.0 34.4#

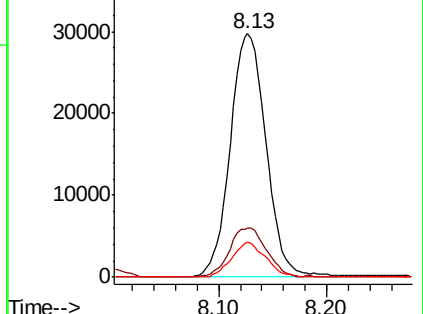
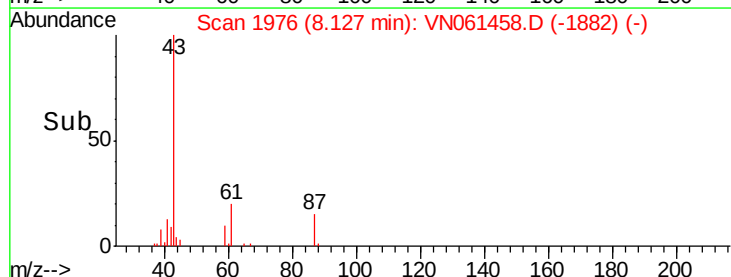
87 13.5 11.6 17.4

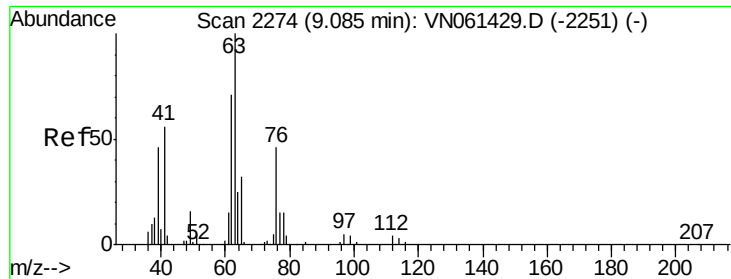


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.315 ug/l

RT: 9.24 min Scan# 2322

Delta R.T. 0.15 min

Lab File: VN061458.D

Acq: 19 May 2020 4:36

Instrument :

MSVOA_N

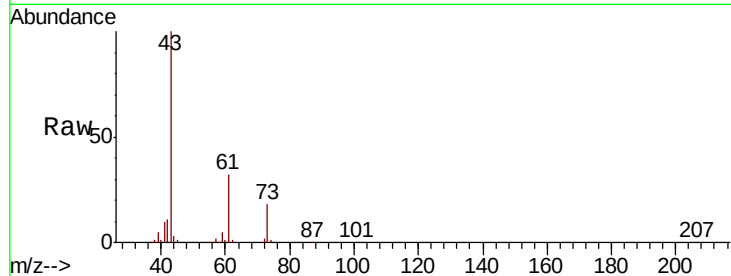
ClientSampleId :

Tot Ion: 63 Resp: 1144

Ion Ratio Lower Upper

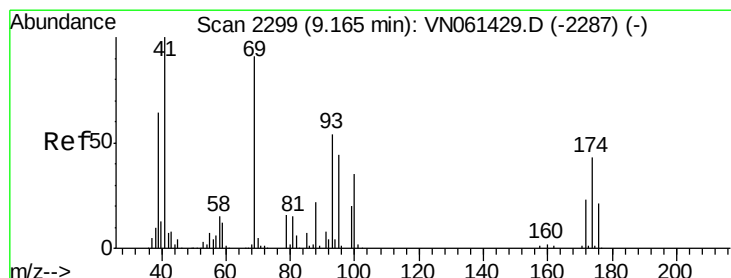
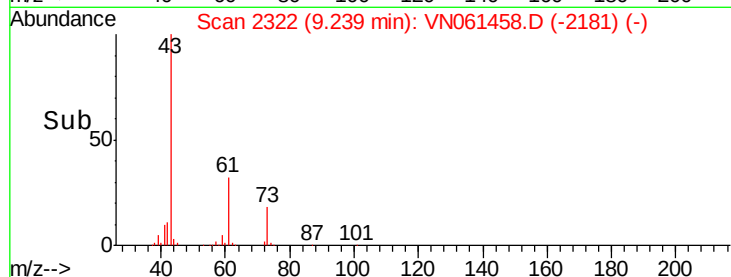
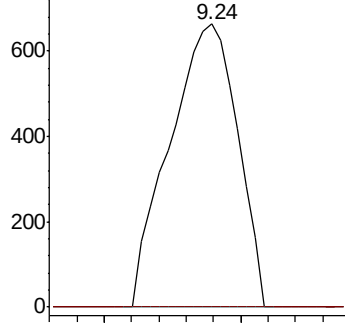
63 100

65 0.0 25.2 37.8#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.184 ug/l

RT: 9.15 min Scan# 2293

Delta R.T. -0.02 min

Lab File: VN061458.D

Acq: 19 May 2020 4:36

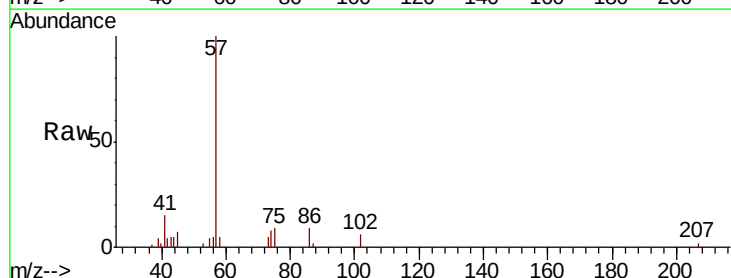
Tgt Ion: 41 Resp: 4167

Ion Ratio Lower Upper

41 100

69 0.0 75.3 112.9#

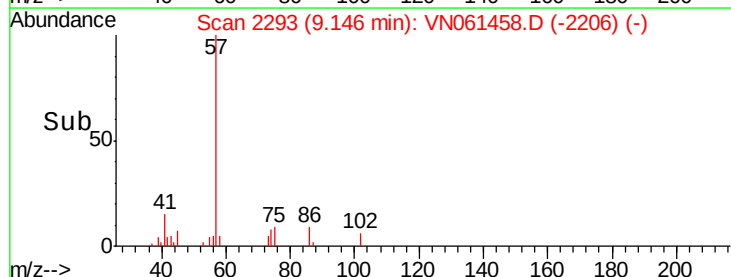
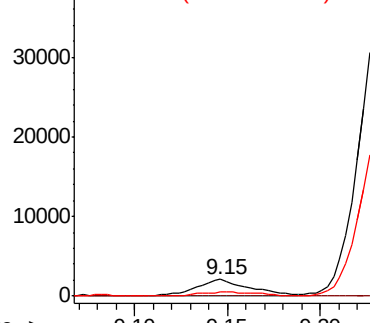
39 0.0 52.6 79.0#

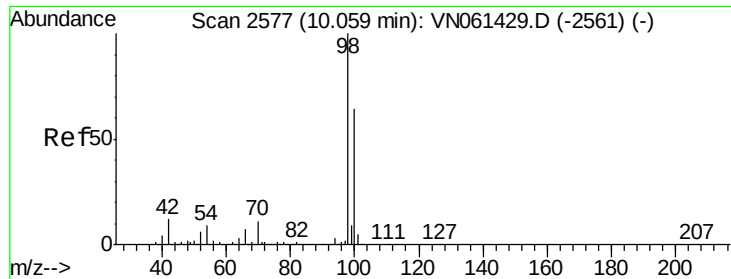


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 52.758 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.00 min

Lab File: VN061458.D

Acq: 19 May 2020 4:36

Instrument :

MSVOA_N

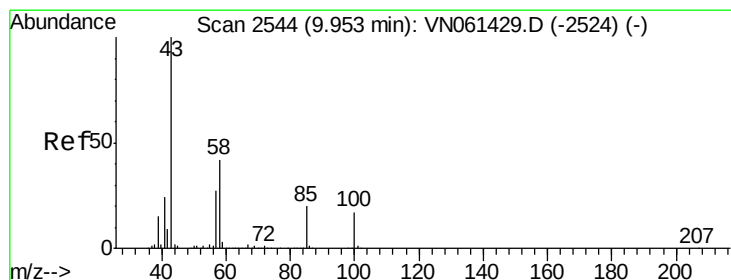
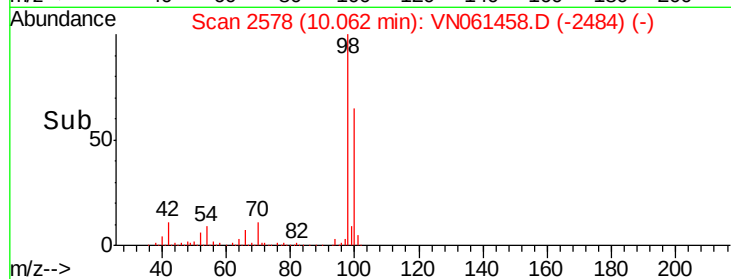
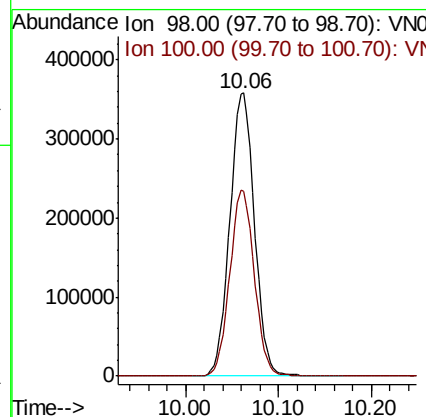
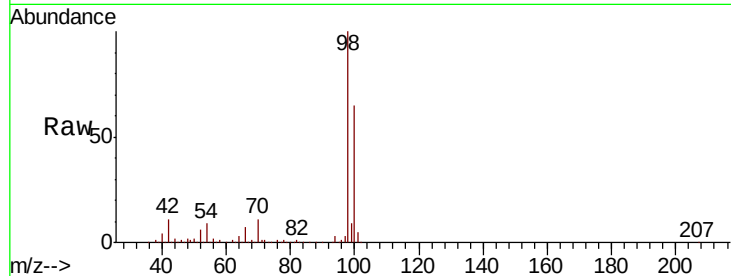
ClientSampleId :

Tot Ion: 98 Resp: 660148

Ion Ratio Lower Upper

98 100

100 65.2 51.8 77.8



#51

4-Methyl-2-Pentanone

Concen: 1.844 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN061458.D

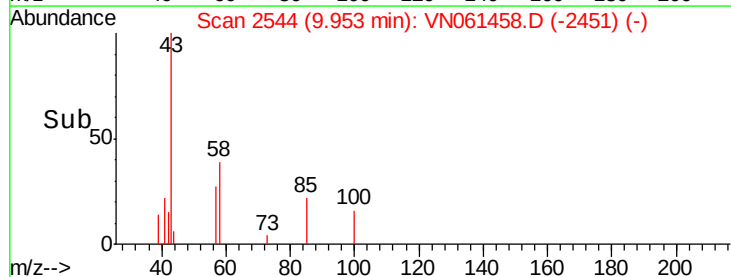
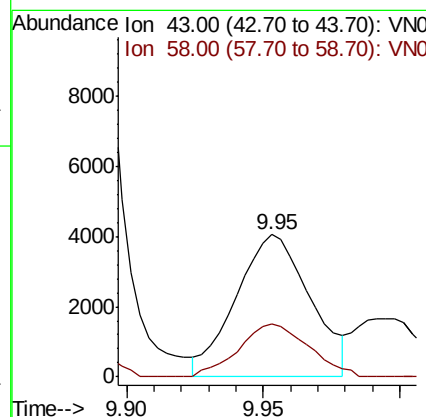
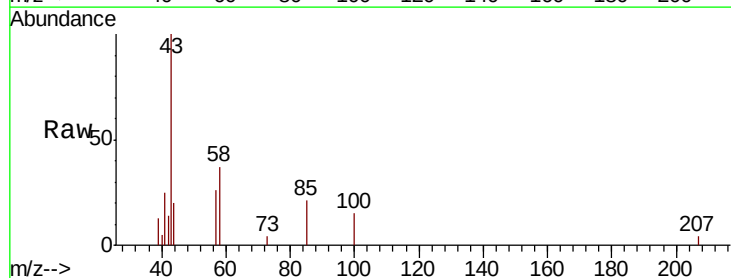
Acq: 19 May 2020 4:36

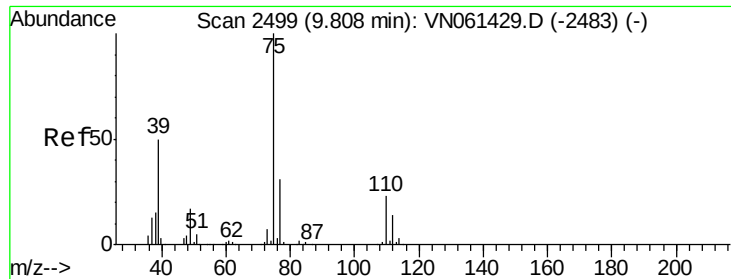
Tgt Ion: 43 Resp: 7652

Ion Ratio Lower Upper

43 100

58 35.3 33.4 50.2

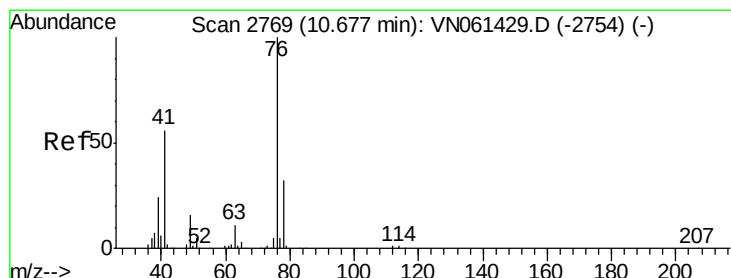
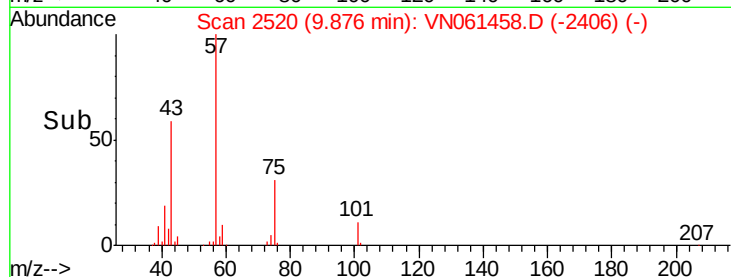
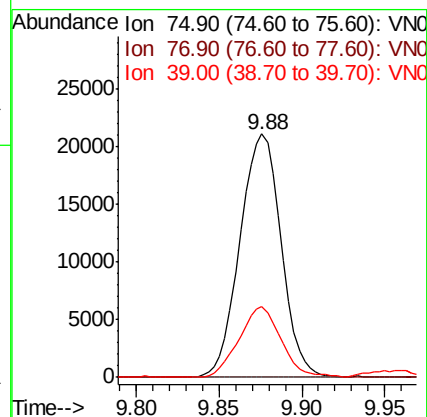
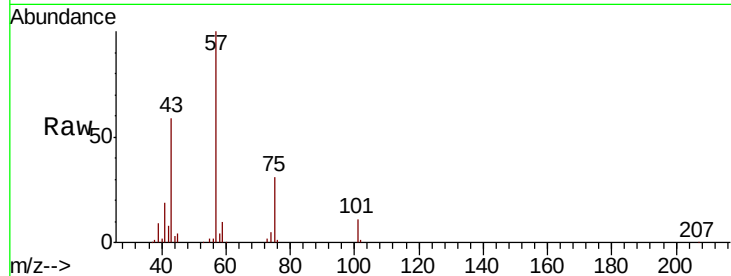




#54
 cis-1,3-Dichloropropene
 Concen: 5.824 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN061458.D
 Acq: 19 May 2020 4:36

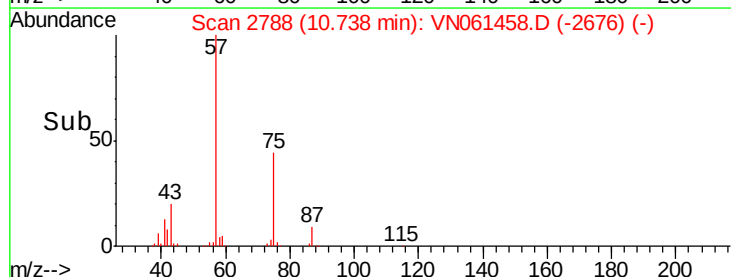
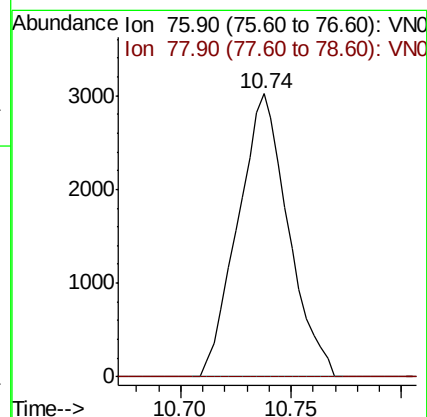
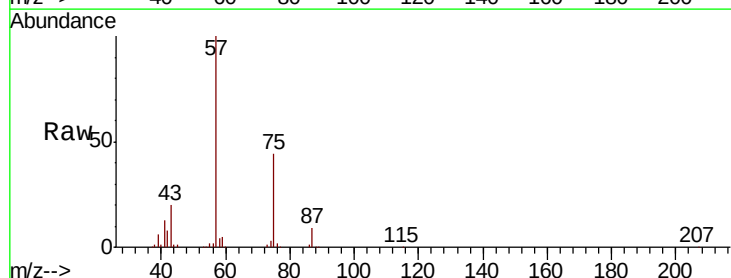
Instrument :
 MSVOA_N
 ClientSampled :

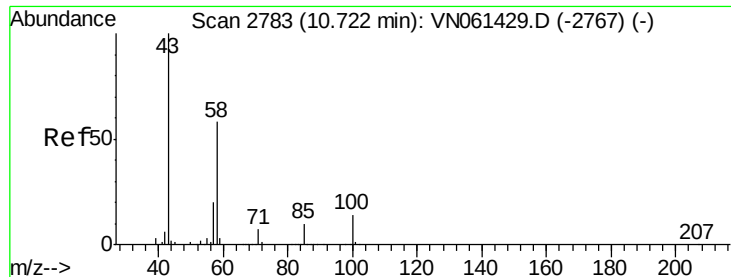
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.8	37.2#
39	28.8	39.8	59.6#



#57
 1,3-Dichloropropane
 Concen: 0.786 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN061458.D
 Acq: 19 May 2020 4:36

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	26.0	39.0#





#59

2-Hexanone

Concen: 20.644 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN061458.D

Acq: 19 May 2020 4:36

Instrument :

MSVOA_N

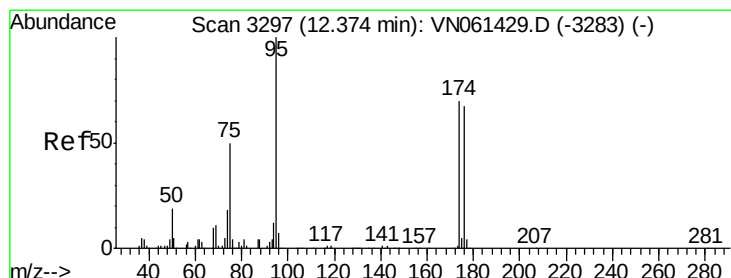
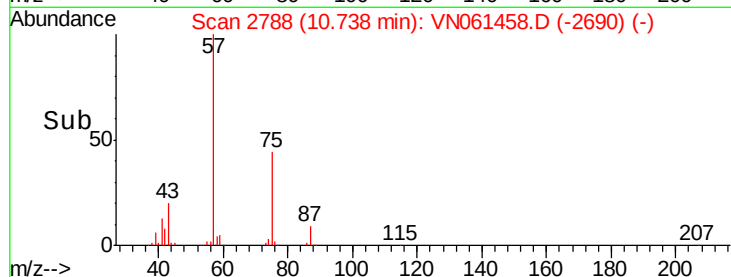
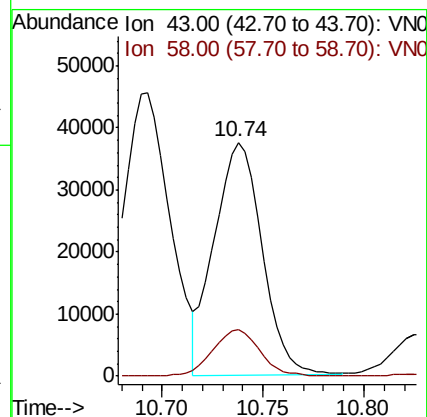
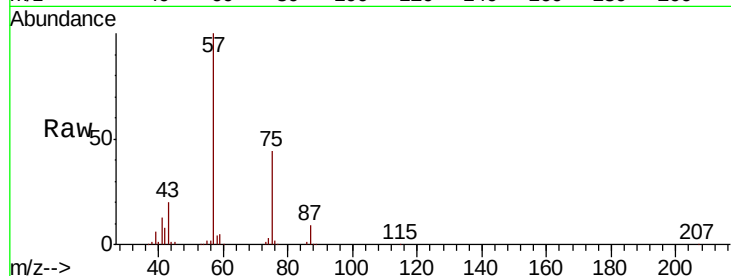
ClientSampled :

Tot Ion: 43 Resp: 61969

Ion Ratio Lower Upper

43 100

58 19.8 29.2 87.6#



#62

4-Bromofluorobenzene

Concen: 54.441 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061458.D

Acq: 19 May 2020 4:36

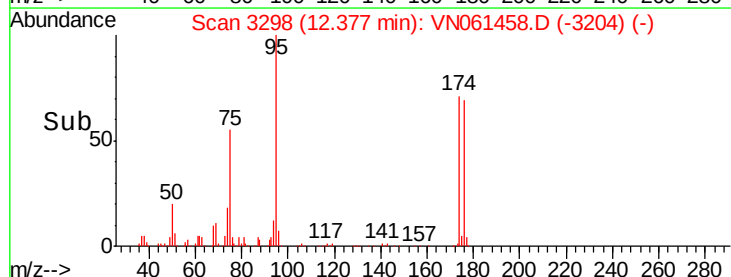
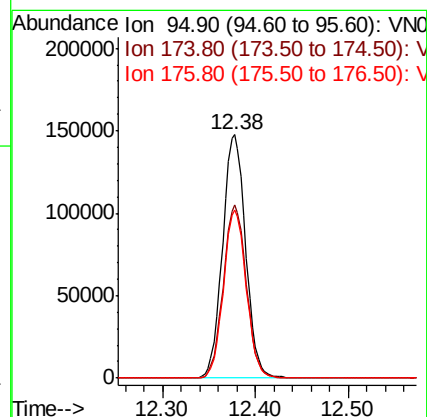
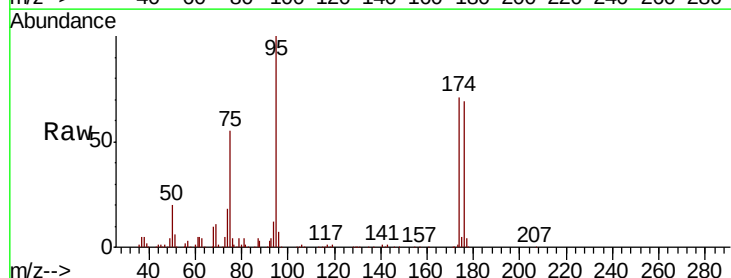
Tgt Ion: 95 Resp: 254507

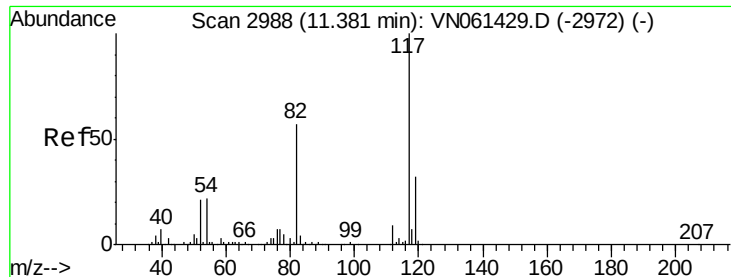
Ion Ratio Lower Upper

95 100

174 71.1 0.0 141.2

176 68.4 0.0 137.6

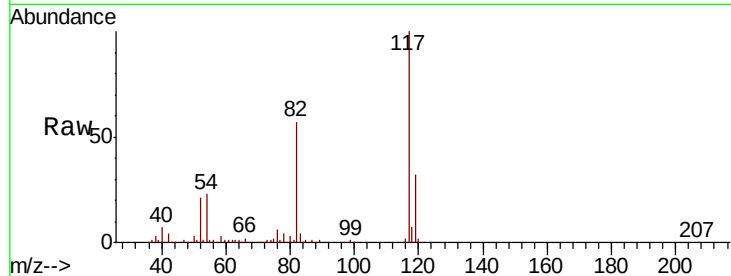




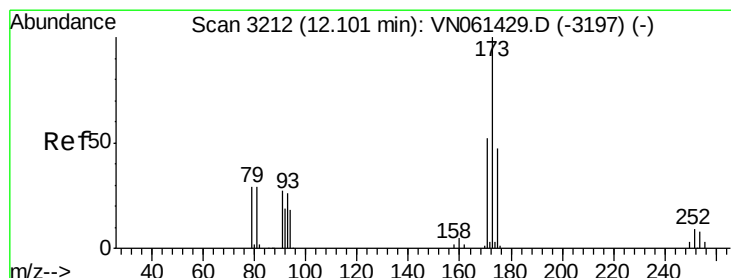
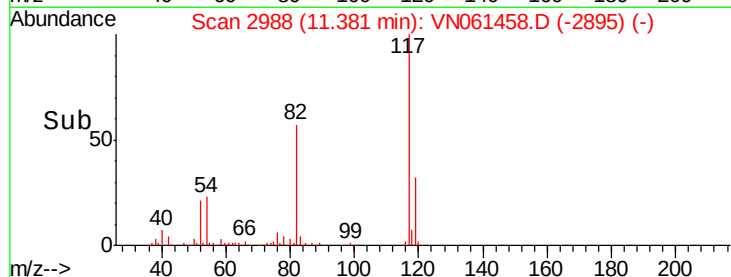
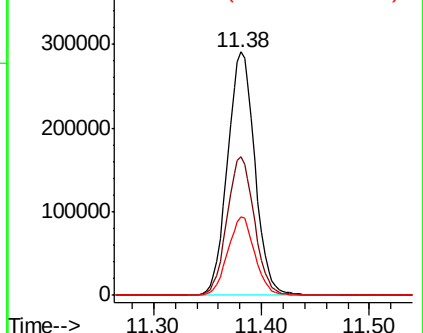
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061458.D
Acq: 19 May 2020 4:36

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 513917
Ion Ratio Lower Upper
117 100
82 56.7 45.2 67.8
119 32.3 25.3 37.9

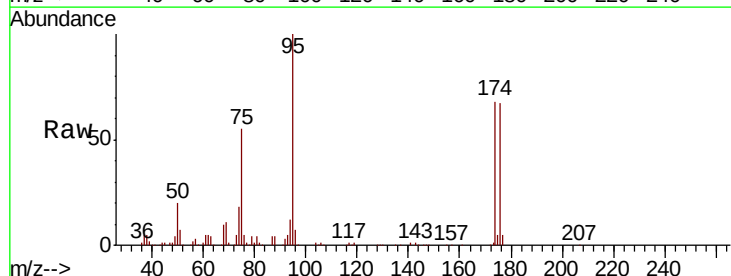


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

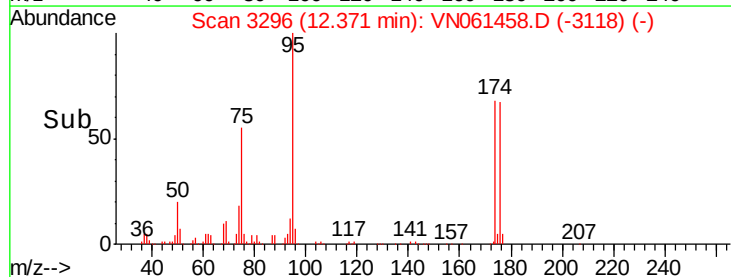
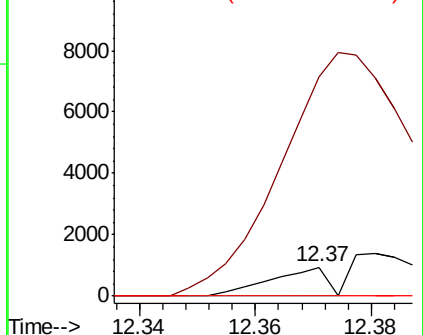


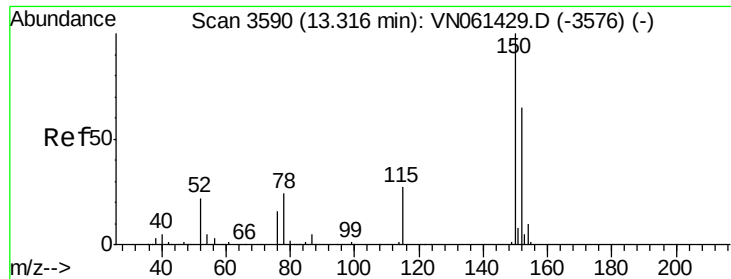
#71
Bromoform
Concen: 2.226 ug/l
RT: 12.37 min Scan# 3296
Delta R.T. 0.27 min
Lab File: VN061458.D
Acq: 19 May 2020 4:36

Tgt Ion:173 Resp: 628
Ion Ratio Lower Upper
173 100
175 1784.1 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



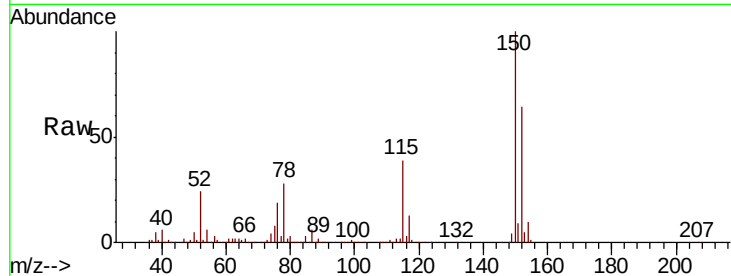


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. 0.00 min
Lab File: VN061458.D
Acq: 19 May 2020 4:36

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	61.5	30.9	92.5
150	158.4	0.0	349.2

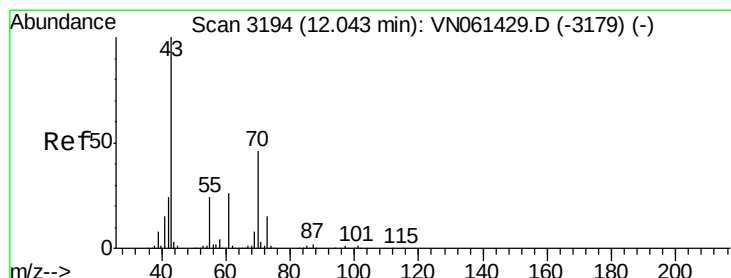
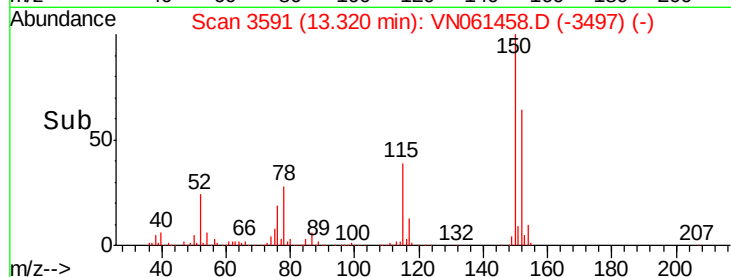
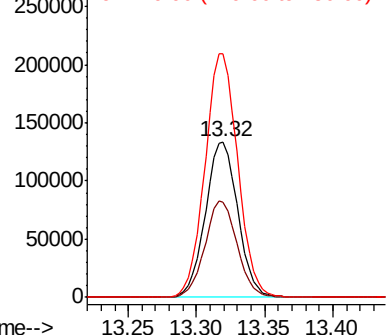


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

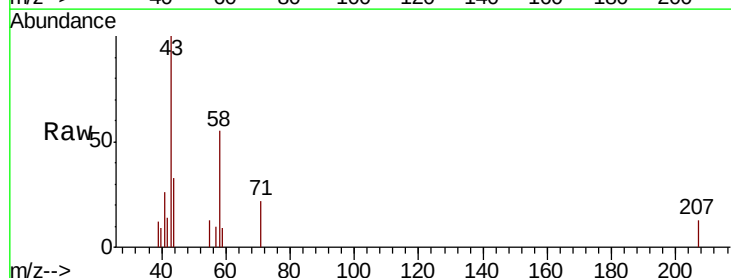
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 0.491 ug/l
RT: 12.00 min Scan# 3182
Delta R.T. -0.04 min
Lab File: VN061458.D
Acq: 19 May 2020 4:36

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	37.0	55.4#
55	7.7	19.5	29.3#
61	0.0	20.8	31.2#



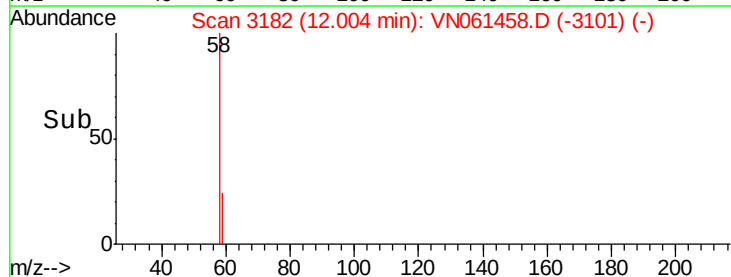
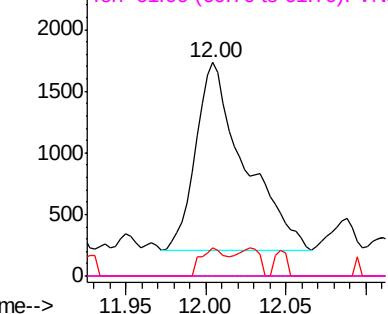
Abundance

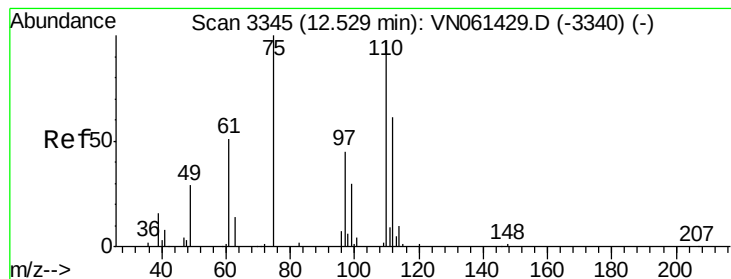
Ion 43.00 (42.70 to 43.70): VN0

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: 28.759 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061458.D

Acq: 19 May 2020 4:36

Instrument :

MSVOA_N

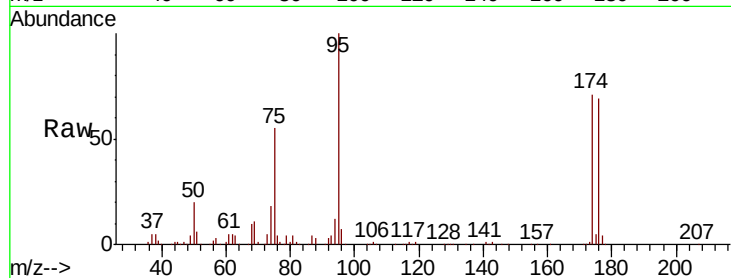
ClientSampled :

Tot Ion: 75 Resp: 136420

Ion Ratio Lower Upper

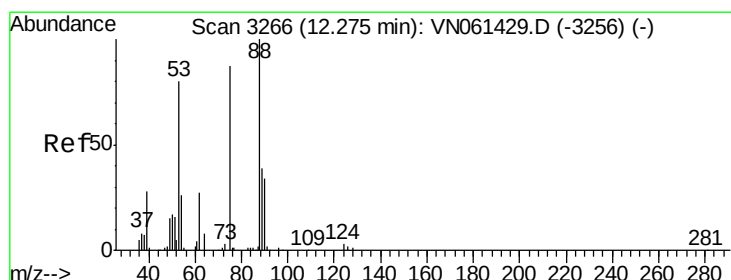
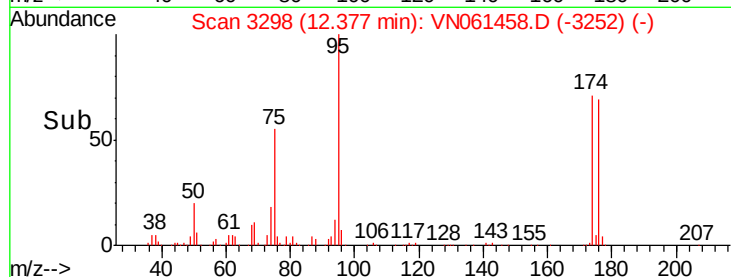
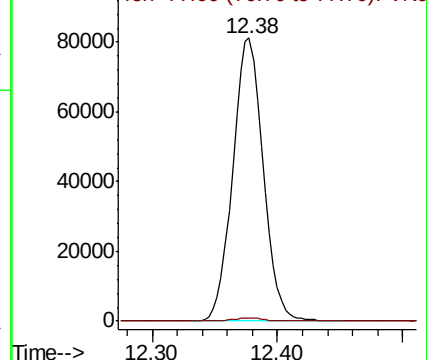
75 100

77 1.1 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: 76.290 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061458.D

Acq: 19 May 2020 4:36

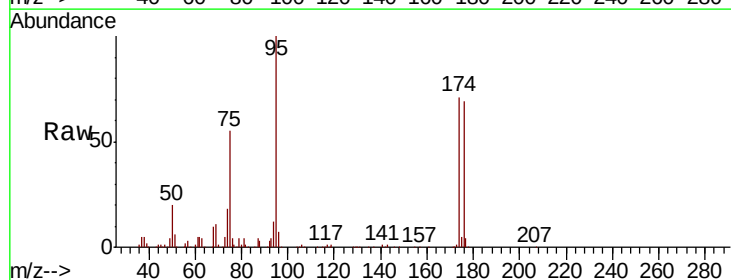
Tgt Ion: 75 Resp: 136420

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

