

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051820\
 Data File : VN061462.D
 Acq On : 19 May 2020 6:09
 Operator : JC/MD
 Sample : PB128923ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 19 07:04:02 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	266287	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	496758	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	500534	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	225421	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	195080	49.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.18%	
35) Dibromofluoromethane	7.55	113	131033	50.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.70%	
50) Toluene-d8	10.06	98	635210	52.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.26%	
62) 4-Bromofluorobenzene	12.38	95	248995	55.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.42%	

Target Compounds

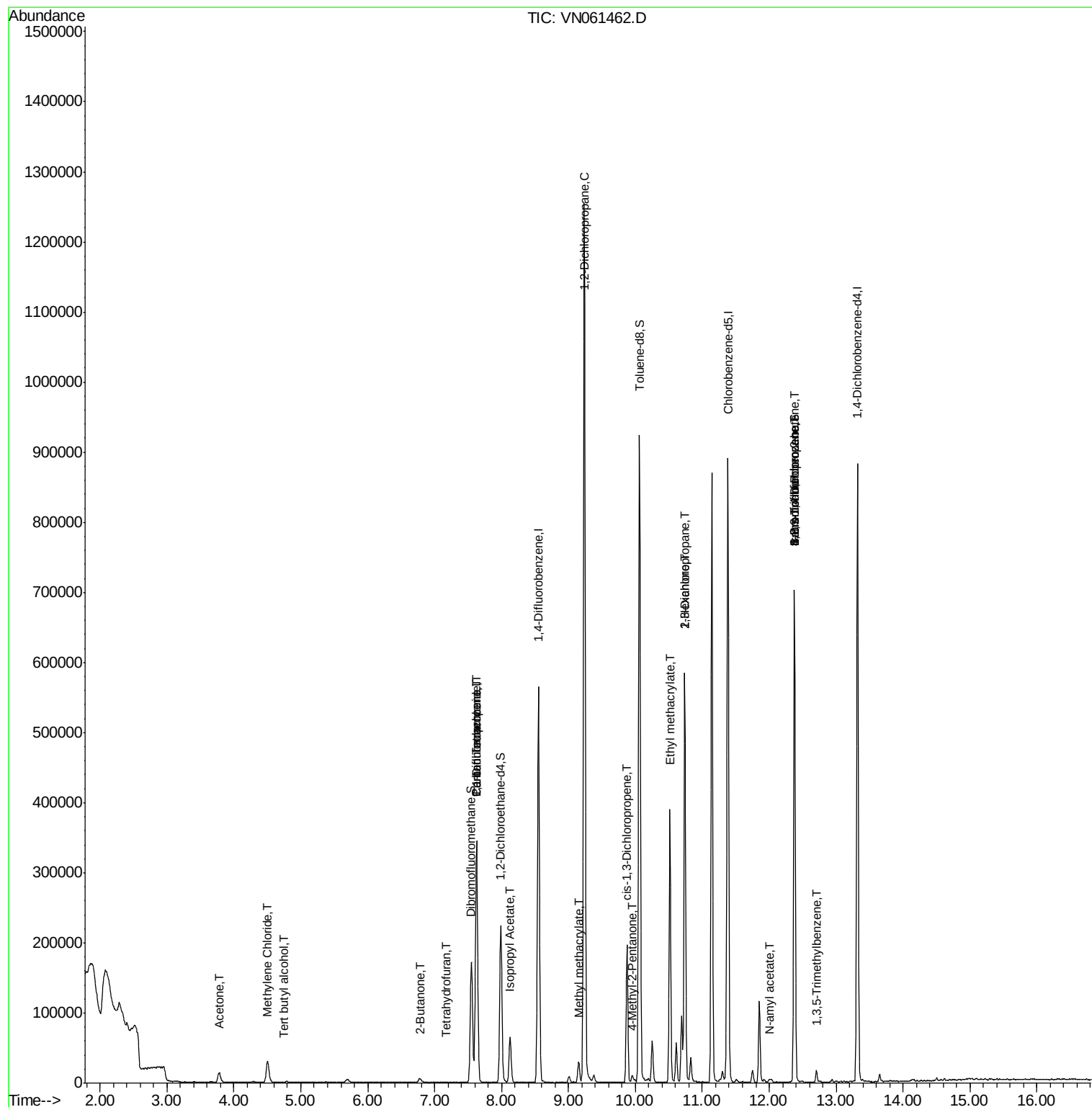
					Qvalue
5) Bromomethane	2.54	94	288	Below Cal	# 18
11) Tert butyl alcohol	4.74	59	149	0.325 ug/l	# 73
13) Acrolein	3.28	56	32	Below Cal	# 16
16) Acetone	3.77	43	25030	13.809 ug/l	# 88
17) Carbon Disulfide	4.01	76	194	Below Cal	# 75
18) Methyl Acetate	4.28	43	2460	Below Cal	# 60
20) Methylene Chloride	4.50	84	22523	6.896 ug/l	# 98
25) 2-Butanone	6.79	43	2408	1.331 ug/l	# 84
29) Tetrahydrofuran	7.18	42	259	0.216 ug/l	# 29
31) Cyclohexane	7.63	56	6884	Below Cal	# 37
36) 1,1-Dichloropropene	7.63	75	23620	5.085 ug/l	# 49
38) Carbon Tetrachloride	7.63	117	28195	6.592 ug/l	# 16
43) Isopropyl Acetate	8.13	43	76262	10.380 ug/l	# 90
45) 1,2-Dichloropropane	9.24	63	1611	0.460 ug/l	# 43
48) Methyl methacrylate	9.15	41	4023	1.185 ug/l	# 9
49) 1,4-Dioxane	9.17	88	67	Below Cal	# 1
51) 4-Methyl-2-Pentanone	9.95	43	5669	1.416 ug/l	# 89
54) cis-1,3-Dichloropropene	9.87	75	37935	6.291 ug/l	# 59
56) Ethyl methacrylate	10.52	69	1114	0.210 ug/l	# 1
57) 1,3-Dichloropropane	10.73	76	6287	1.071 ug/l	# 42
59) 2-Hexanone	10.74	43	79343	27.401 ug/l	# 50
71) Bromoform	12.37	173	470	2.179 ug/l	# 29
74) N-amyl acetate	12.00	43	4053	0.612 ug/l	# 45
76) 1,2,3-Trichloropropane	12.38	75	130486	26.977 ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.71	105	4077	0.275 ug/l	# 94
81) trans-1,4-Dichloro-2-buten	12.38	75	130486	71.563 ug/l	# 12

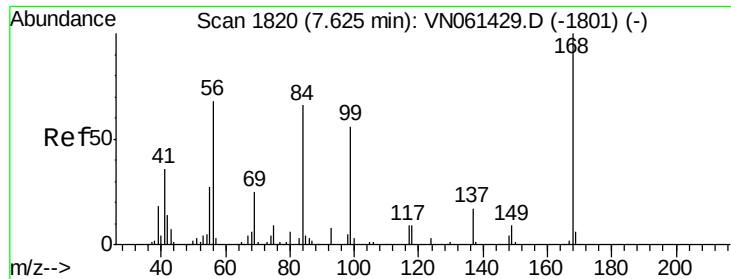
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN051820\
Data File : VN061462.D
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Instrument :
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ClientSampleId :

Quant Time: May 19 07:04:02 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
Quant Title : SW846 8260
QLast Update : Mon May 18 13:09:55 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061462.D

Acq: 19 May 2020 6:09

Instrument :

MSVOA_N

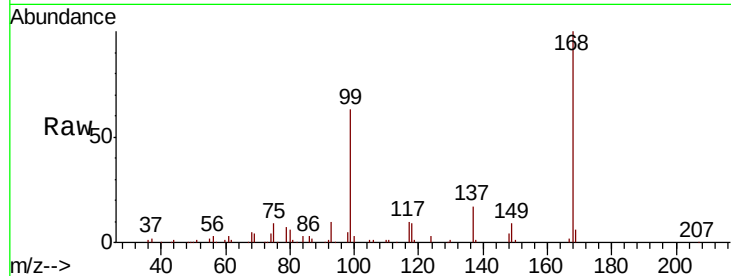
ClientSampled :

Tot Ion:168 Resp: 266287

Ion Ratio Lower Upper

168 100

99 63.4 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

120000

100000

80000

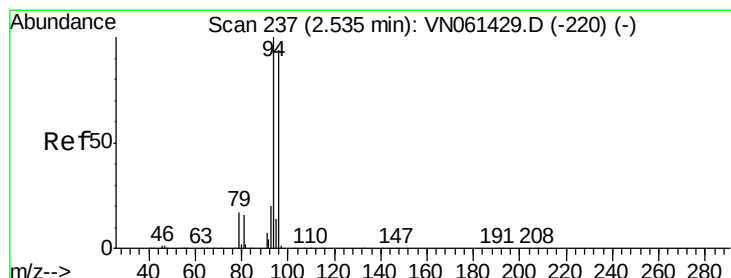
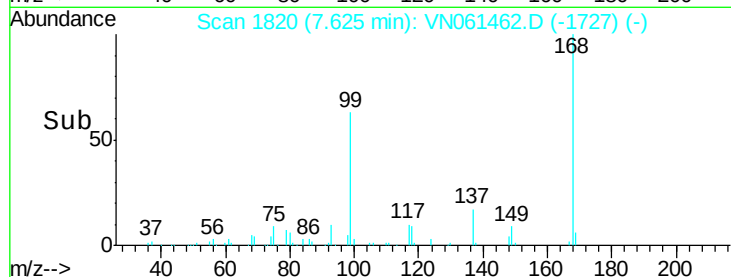
60000

40000

20000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

Lab File: VN061462.D

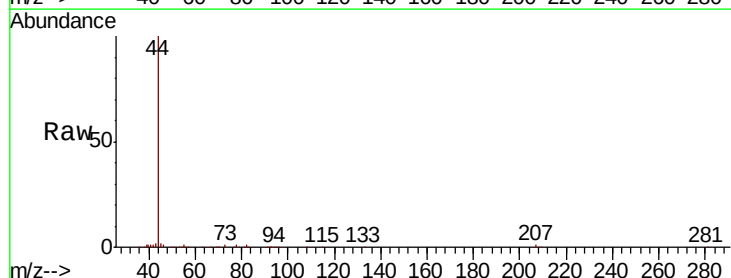
Acq: 19 May 2020 6:09

Tgt Ion: 94 Resp: 288

Ion Ratio Lower Upper

94 100

96 14.6 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

600

500

400

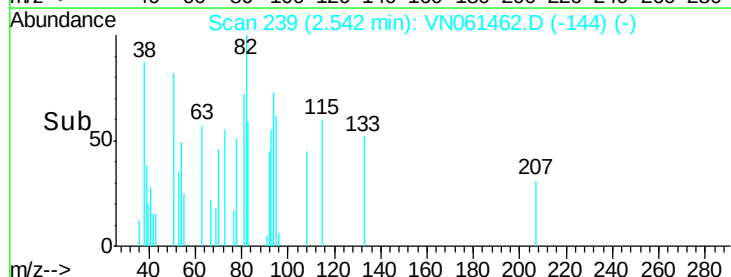
300

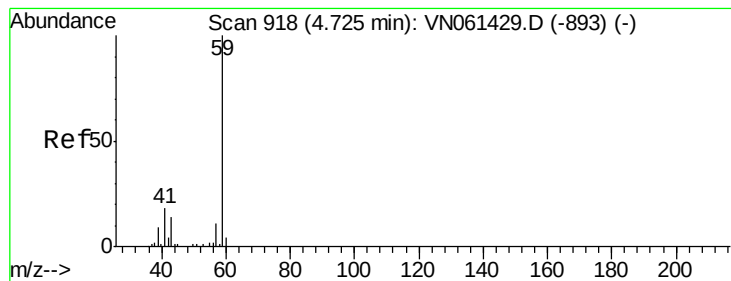
200

100

0

Time--> 2.51 2.52 2.53 2.54 2.55



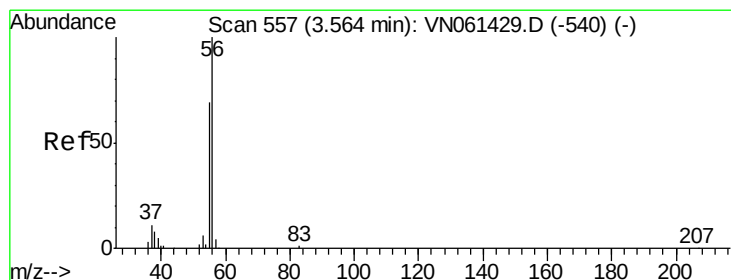
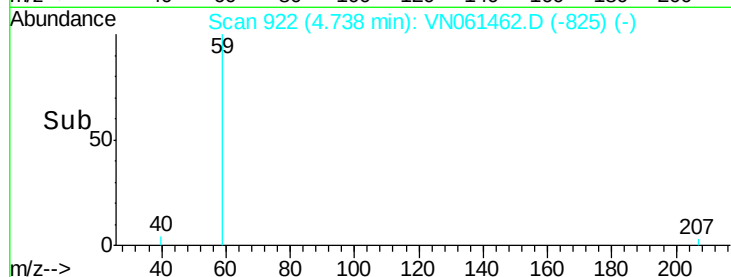
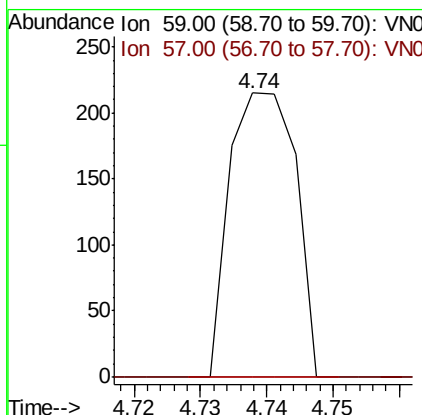
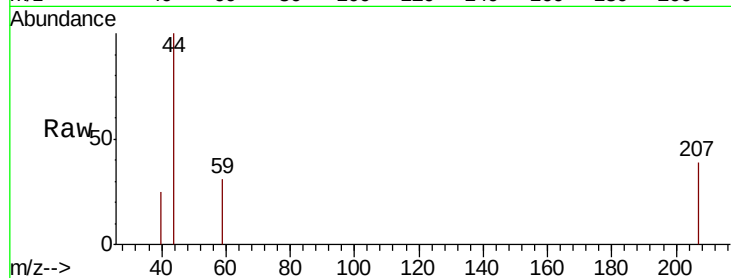


#11

Tert butyl alcohol
 Concen: 0.325 ug/l
 RT: 4.74 min Scan# 922
 Delta R.T. 0.01 min
 Lab File: VN061462.D
 Acq: 19 May 2020 6:09

Instrument :
 MSVOA_N
 ClientSampleId :

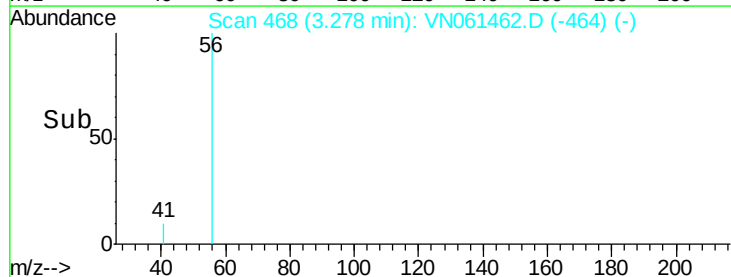
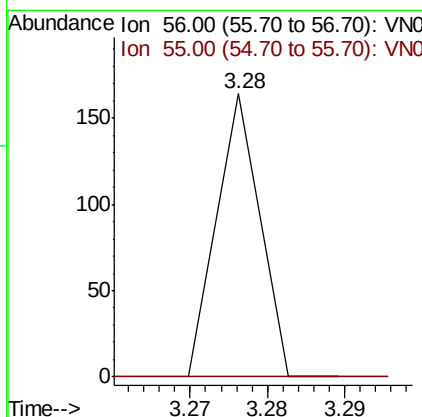
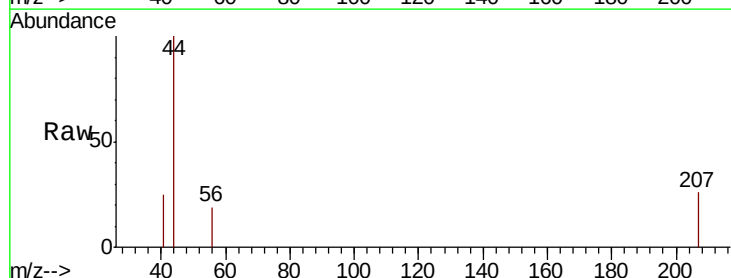
Tot Ion: 59 Resp: 149
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

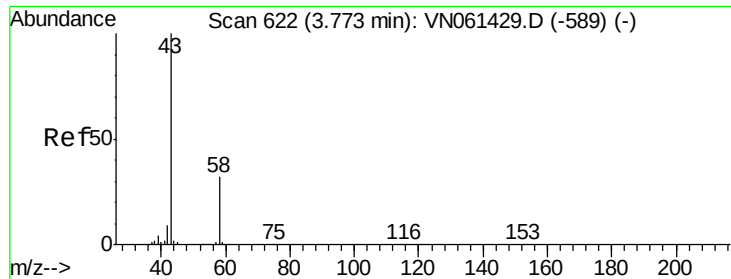


#13

Acrolein
 Concen: Below Cal
 RT: 3.28 min Scan# 468
 Delta R.T. -0.29 min
 Lab File: VN061462.D
 Acq: 19 May 2020 6:09

Tgt Ion: 56 Resp: 32
 Ion Ratio Lower Upper
 56 100
 55 0.0 54.8 82.2#

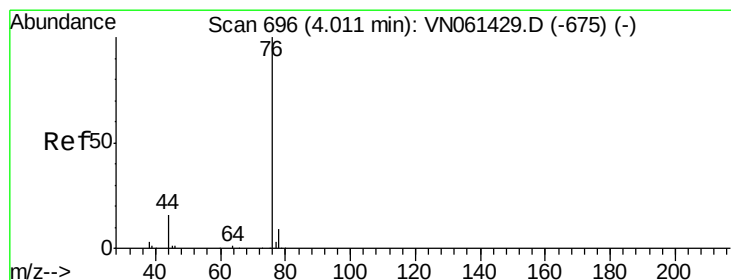
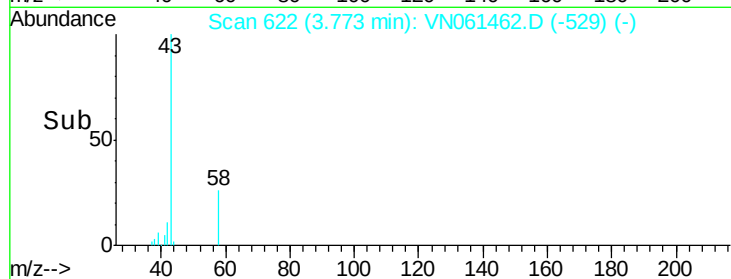
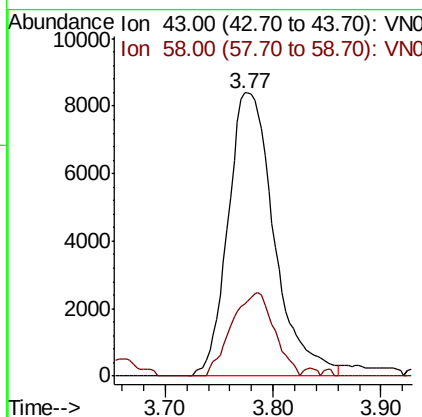
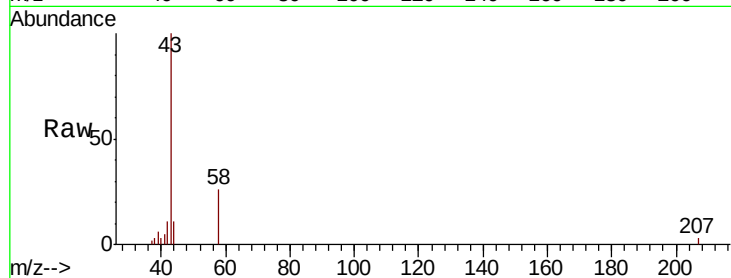




#16
Acetone
Concen: 13.809 ug/l
RT: 3.77 min Scan# 622
Delta R.T. 0.00 min
Lab File: VN061462.D
Acq: 19 May 2020 6:09

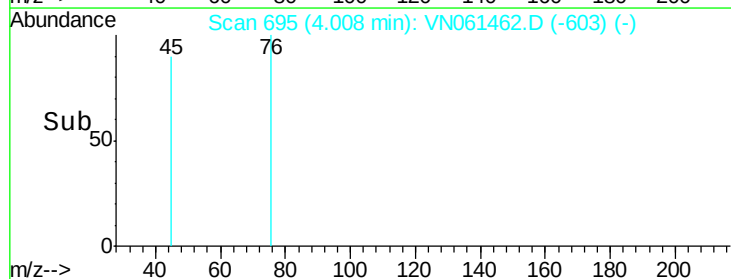
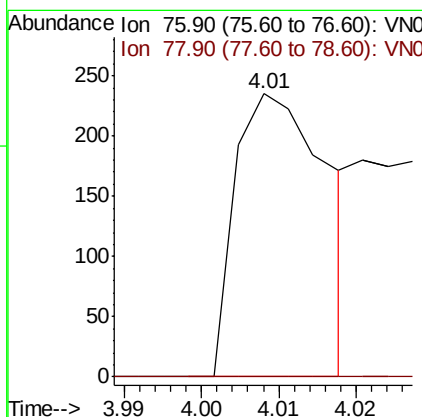
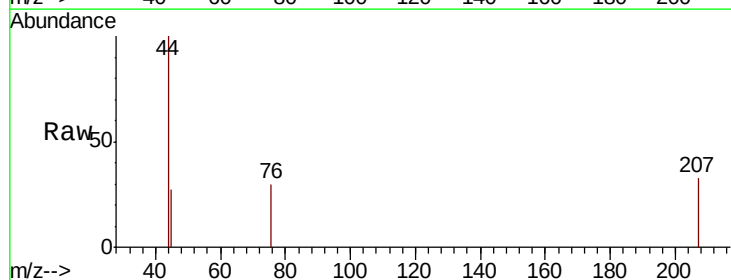
Instrument :
MSVOA_N
ClientSampled :

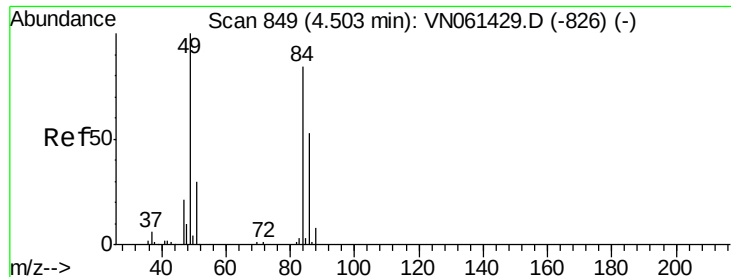
Tot Ion: 43 Resp: 25030
Ion Ratio Lower Upper
43 100
58 25.5 25.6 38.4#



#17
Carbon Disulfide
Concen: Below Cal
RT: 4.01 min Scan# 695
Delta R.T. -0.00 min
Lab File: VN061462.D
Acq: 19 May 2020 6:09

Tgt Ion: 76 Resp: 194
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#

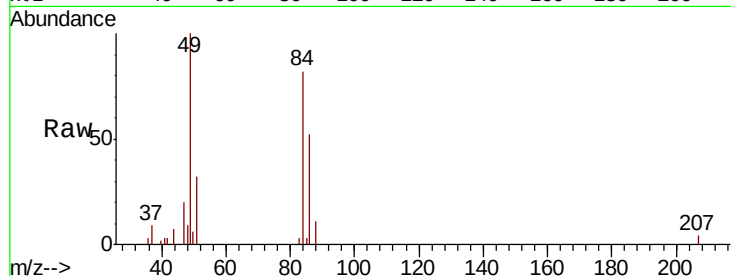




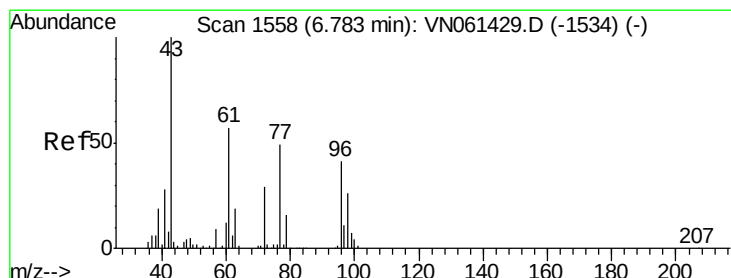
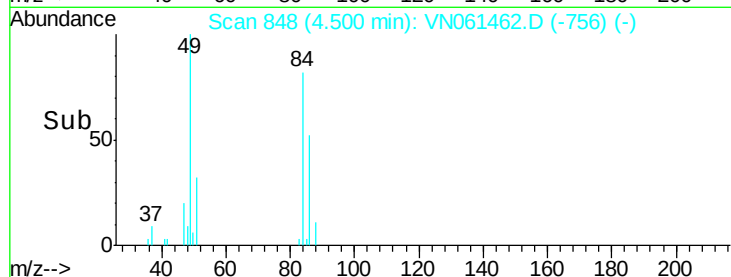
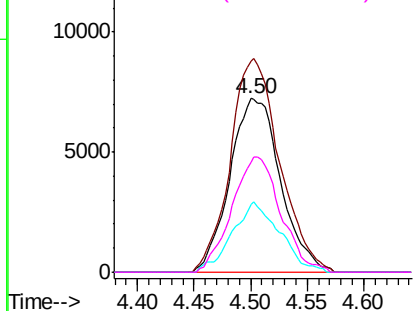
#20
Methvlene Chloride
Concen: 6.896 ug/l
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN061462.D
Acq: 19 May 2020 6:09

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 22523
Ion Ratio Lower Upper
84 100
49 121.3 95.3 142.9
51 38.8 29.0 43.6
86 63.5 50.2 75.2

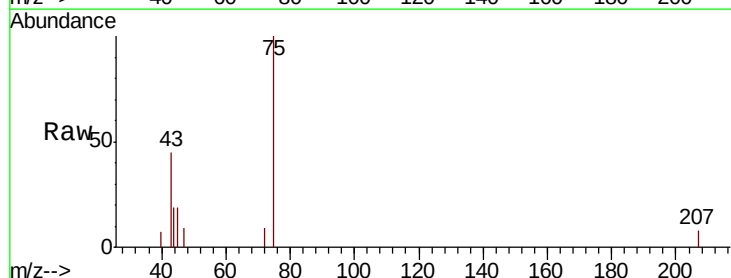


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

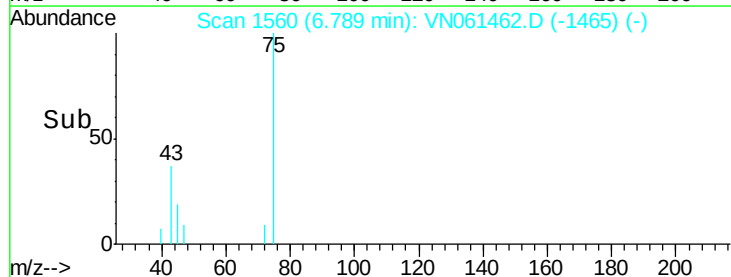
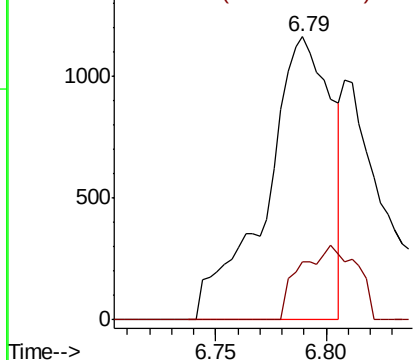


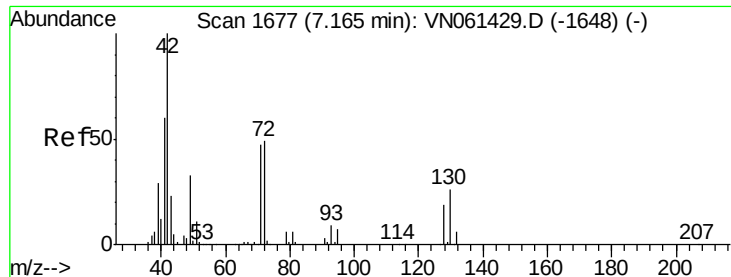
#25
2-Butanone
Concen: 1.331 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. 0.01 min
Lab File: VN061462.D
Acq: 19 May 2020 6:09

Tgt Ion: 43 Resp: 2408
Ion Ratio Lower Upper
43 100
72 20.4 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: 0.216 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.01 min

Lab File: VN061462.D

Acq: 19 May 2020 6:09

Instrument :

MSVOA_N

ClientSampleId :

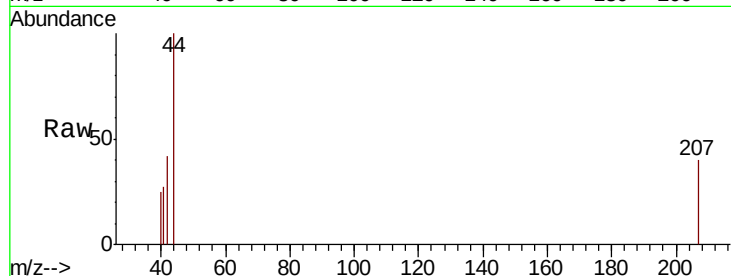
Tot Ion: 42 Resp: 259

Ion Ratio Lower Upper

42 100

72 0.0 39.0 58.6#

71 0.0 36.9 55.3#



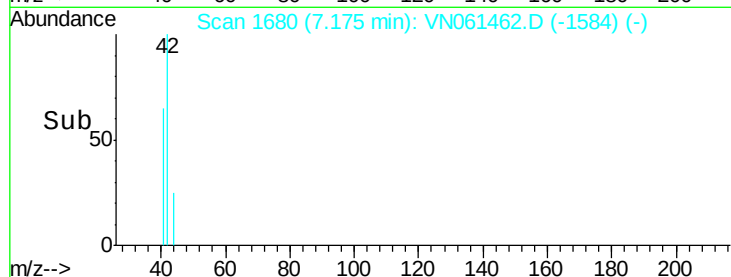
Abundance Ion 42.00 (41.70 to 42.70): VN061429.D (-1648) (-)

Ion 72.00 (71.70 to 72.70): VN061429.D (-1648) (-)

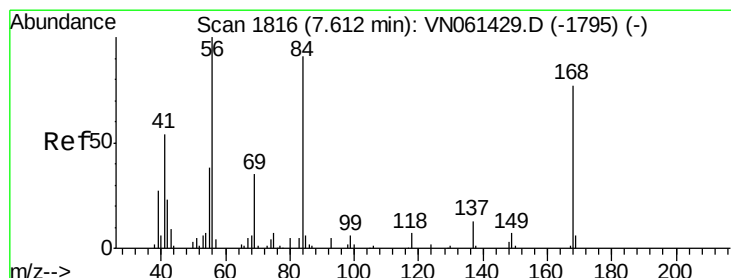
Ion 71.00 (70.70 to 71.70): VN061429.D (-1648) (-)

7.18

Time-->



Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN061462.D

Acq: 19 May 2020 6:09

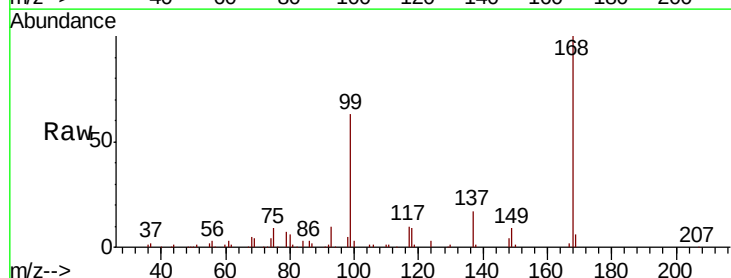
Tgt Ion: 56 Resp: 6884

Ion Ratio Lower Upper

56 100

69 146.7 27.8 41.6#

84 103.7 72.7 109.1



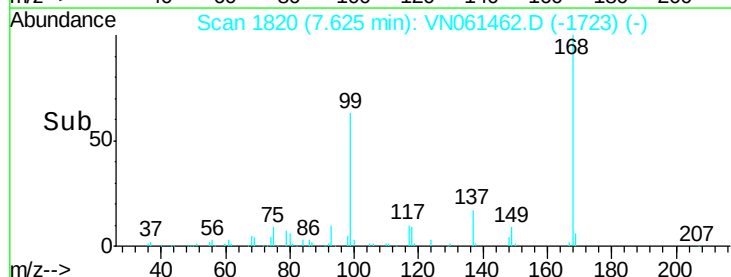
Abundance Ion 56.00 (55.70 to 56.70): VN061429.D (-1795) (-)

Ion 69.00 (68.70 to 69.70): VN061429.D (-1795) (-)

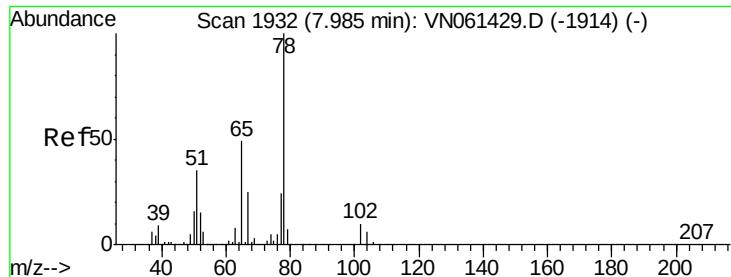
Ion 84.00 (83.70 to 84.70): VN061429.D (-1795) (-)

7.63

Time-->



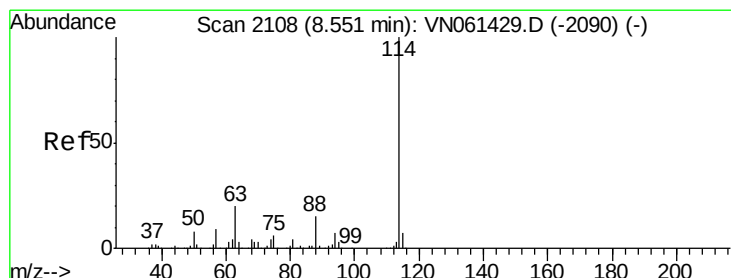
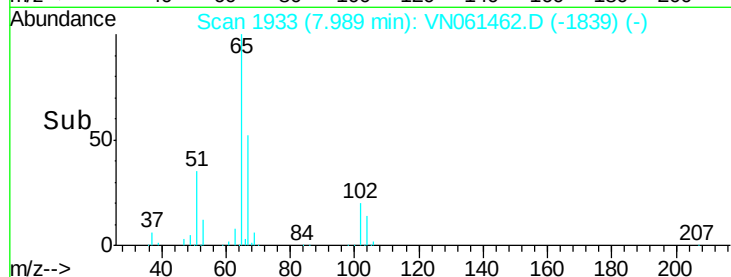
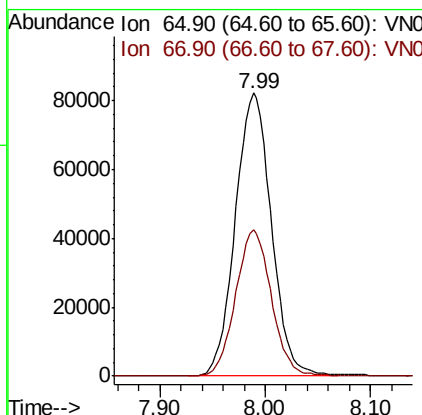
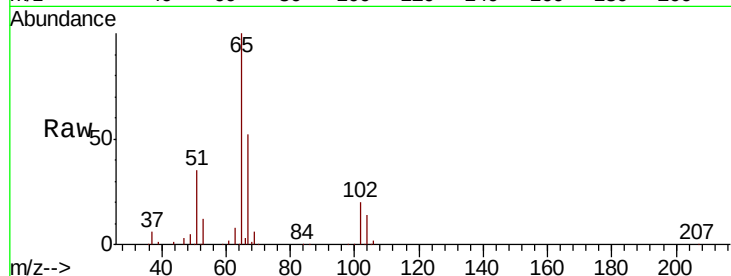
Time-->



#33
 1,2-Dichloroethane-d4
 Concen: 49.086 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN061462.D
 Acq: 19 May 2020 6:09

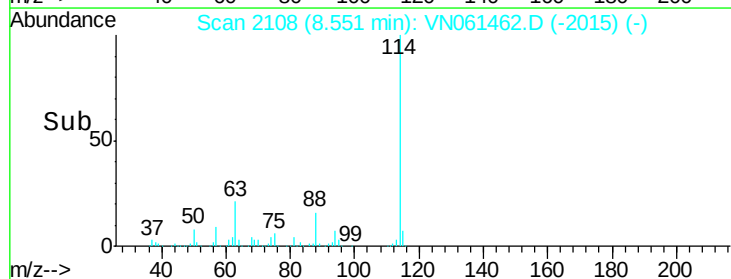
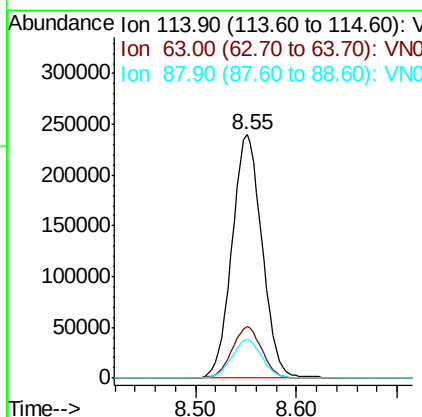
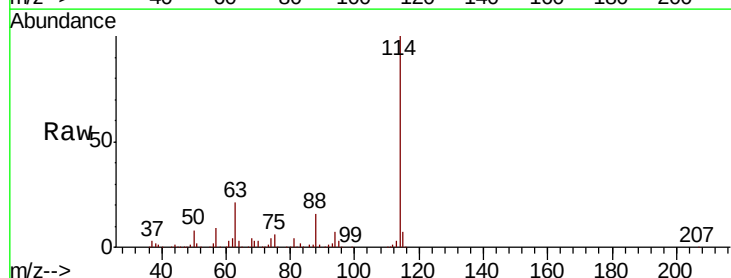
Instrument :
 MSVOA_N
 ClientSampleId :

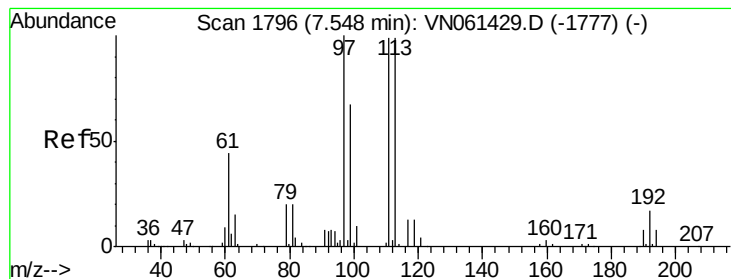
Tot Ion: 65 Resp: 195080
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061462.D
 Acq: 19 May 2020 6:09

Tgt Ion: 114 Resp: 496758
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 40.8
 88 16.1 0.0 30.8





#35

Dibromofluoromethane

Concen: 50.351 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN061462.D

Acq: 19 May 2020 6:09

Instrument :
MSVOA_N
ClientSampleId :

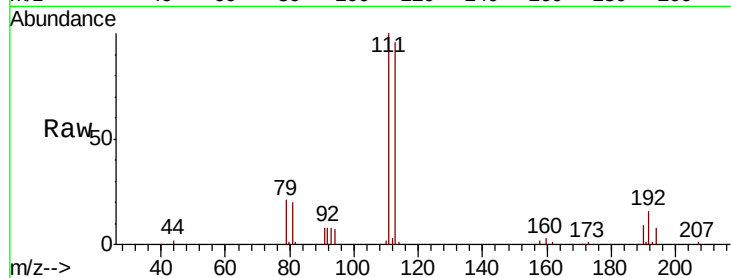
Tot Ion:113 Resp: 131033

Ion Ratio Lower Upper

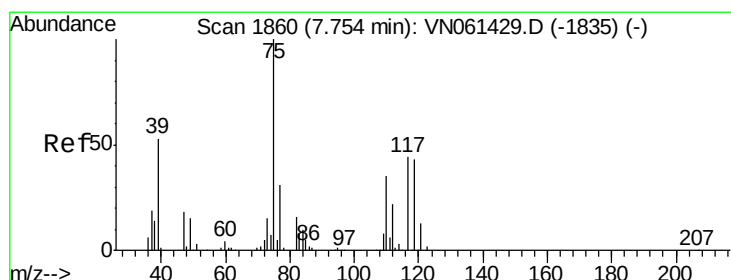
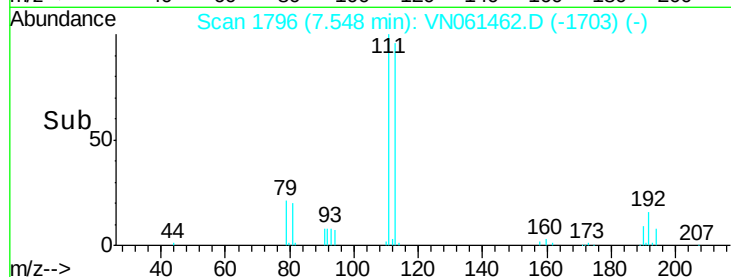
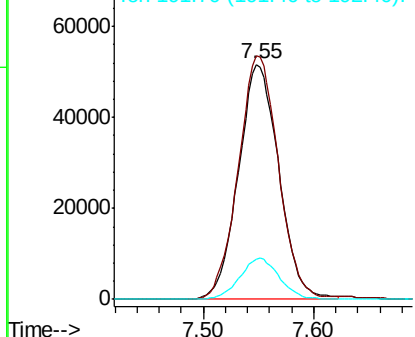
113 100

111 102.9 80.6 121.0

192 17.1 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: 5.085 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN061462.D

Acq: 19 May 2020 6:09

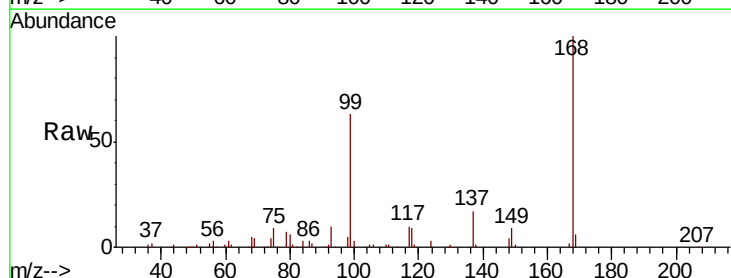
Tgt Ion: 75 Resp: 23620

Ion Ratio Lower Upper

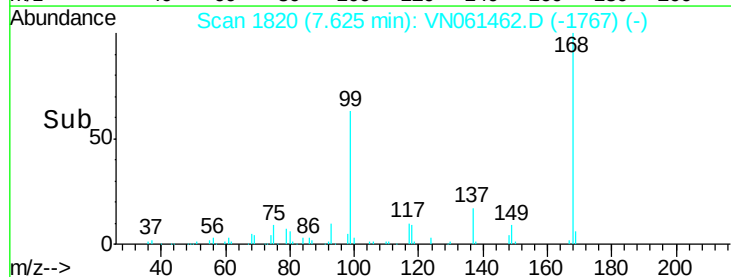
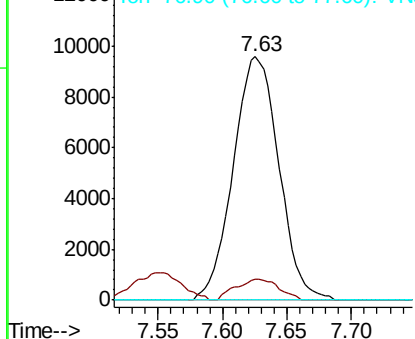
75 100

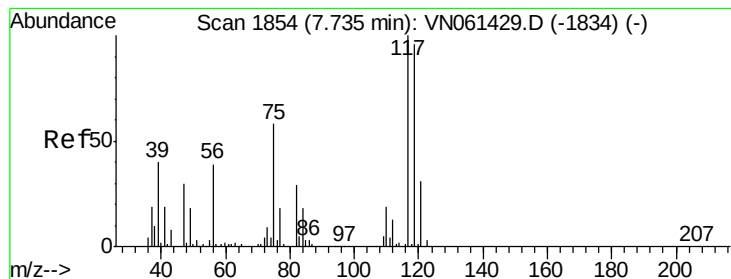
110 8.1 17.3 51.9#

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: 6.592 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061462.D

Acq: 19 May 2020 6:09

Instrument :

MSVOA_N

ClientSampled :

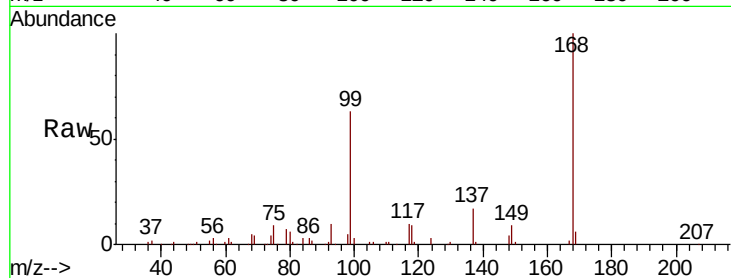
Tot Ion:117 Resp: 28195

Ion Ratio Lower Upper

117 100

119 5.4 77.0 115.6#

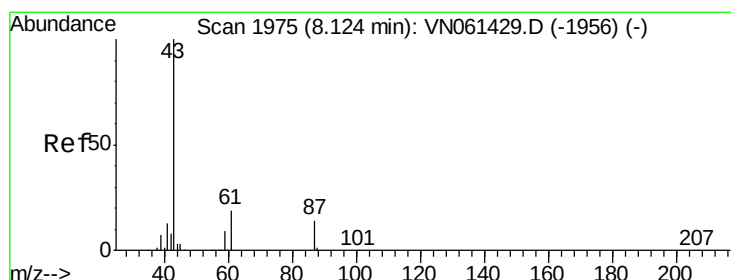
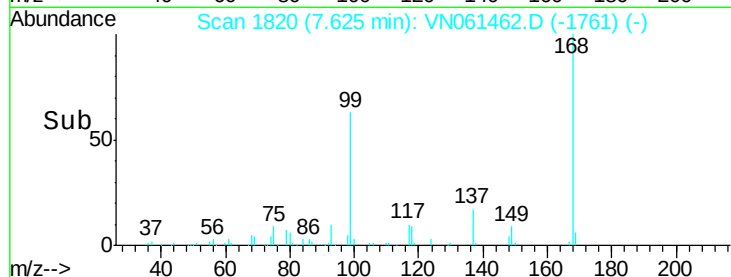
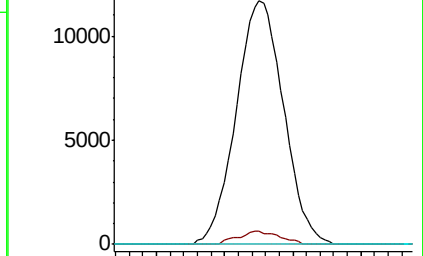
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 10.380 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061462.D

Acq: 19 May 2020 6:09

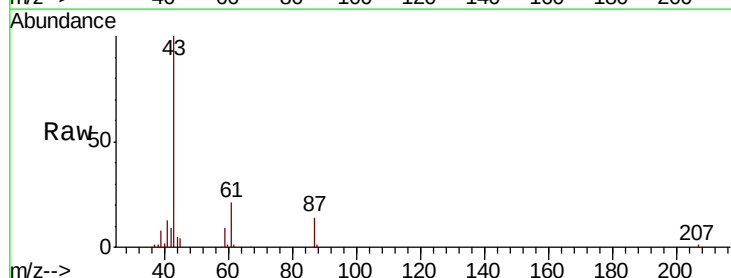
Tgt Ion: 43 Resp: 76262

Ion Ratio Lower Upper

43 100

61 20.8 23.0 34.4#

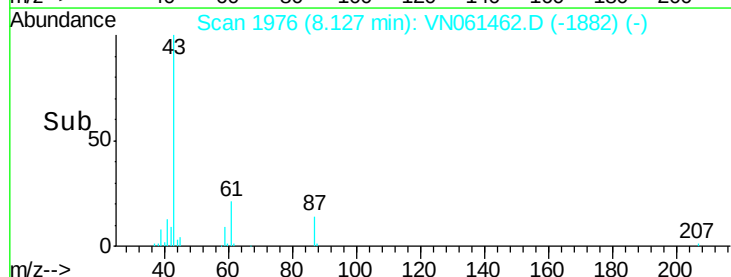
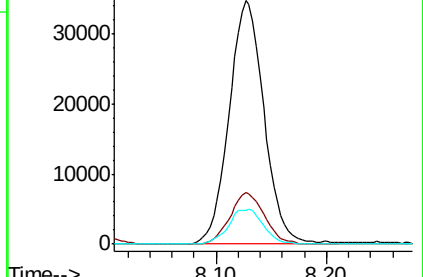
87 14.2 11.6 17.4

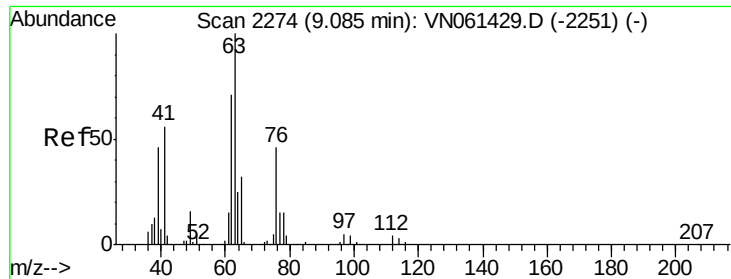


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

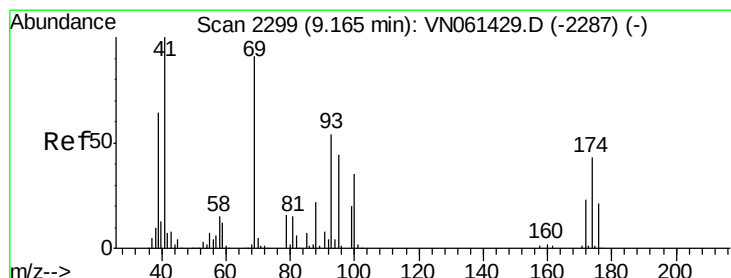
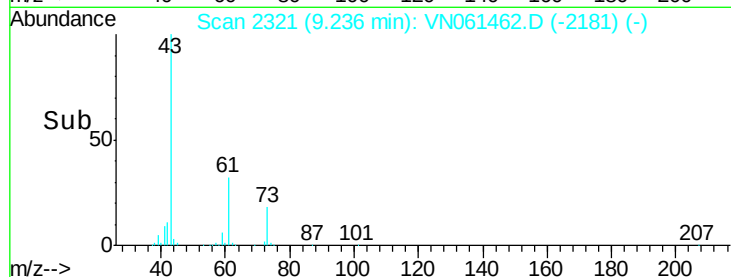
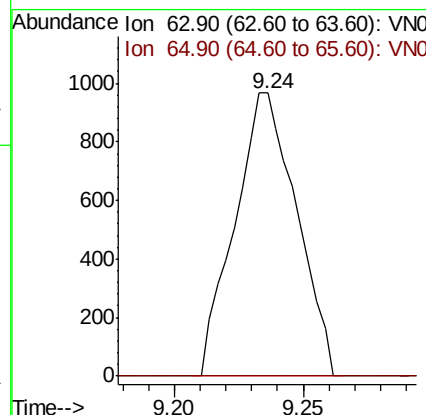
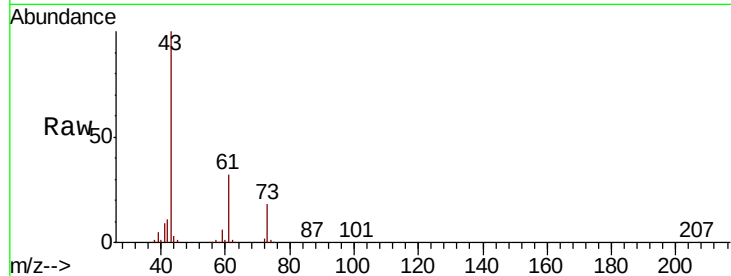




#45
 1,2-Dichloropropane
 Concen: 0.460 ug/l
 RT: 9.24 min Scan# 2321
 Delta R.T. 0.15 min
 Lab File: VN061462.D
 Acq: 19 May 2020 6:09

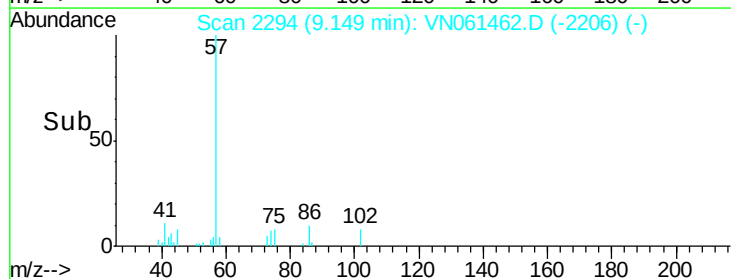
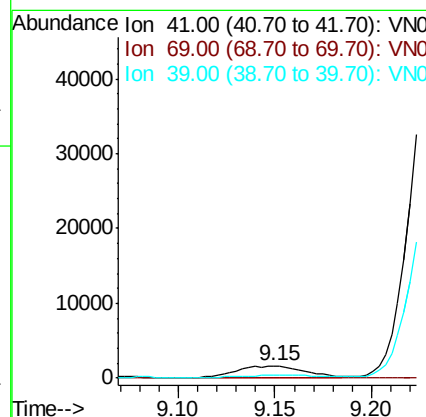
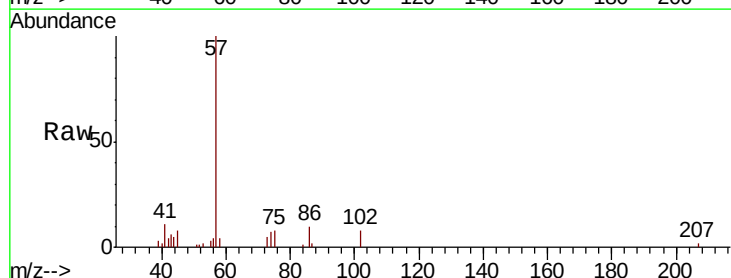
Instrument :
 MSVOA_N
 ClientSampled :

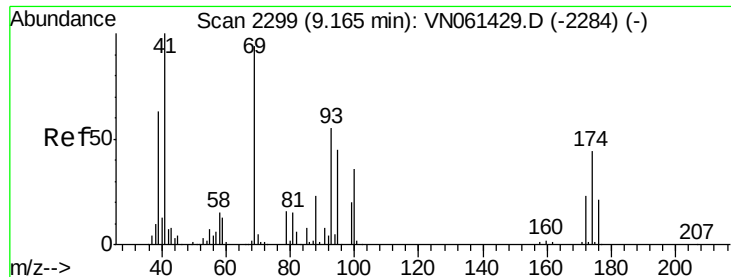
Tot Ion: 63 Resp: 1611
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.2 37.8#



#48
 Methyl methacrylate
 Concen: 1.185 ug/l
 RT: 9.15 min Scan# 2294
 Delta R.T. -0.02 min
 Lab File: VN061462.D
 Acq: 19 May 2020 6:09

Tgt Ion: 41 Resp: 4023
 Ion Ratio Lower Upper
 41 100
 69 0.0 75.3 112.9#
 39 0.0 52.6 79.0#

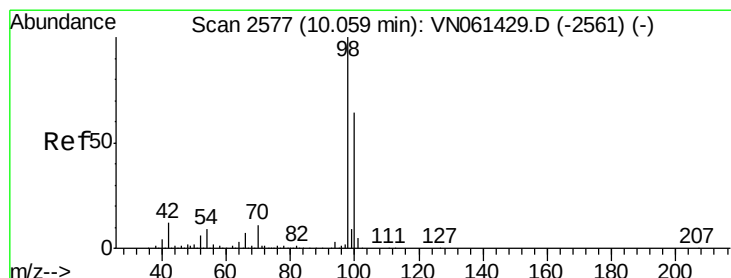
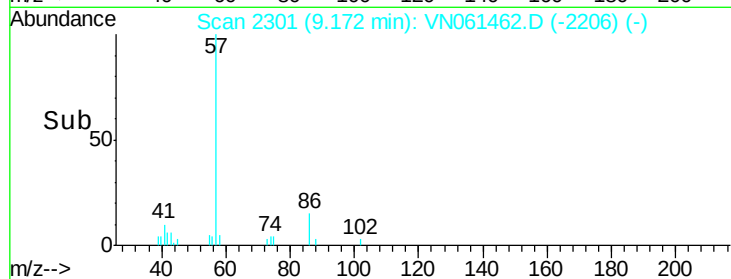
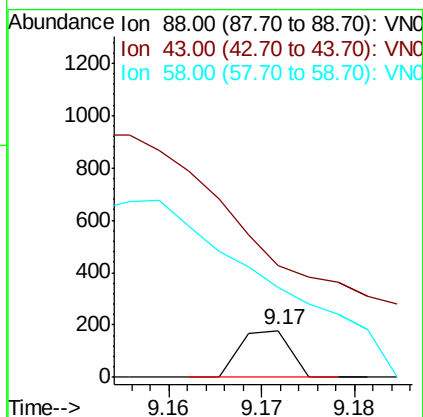
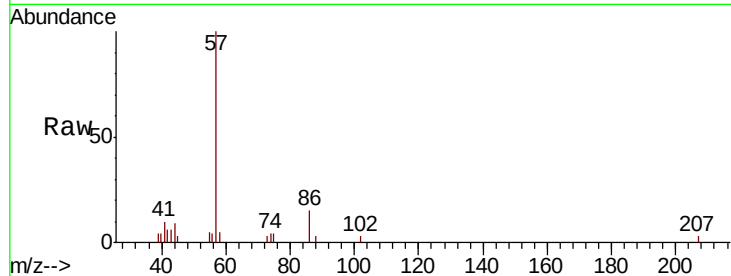




#49
1,4-Dioxane
Concen: Below Cal
RT: 9.17 min Scan# 2301
Delta R.T. 0.01 min
Lab File: VN061462.D
Acq: 19 May 2020 6:09

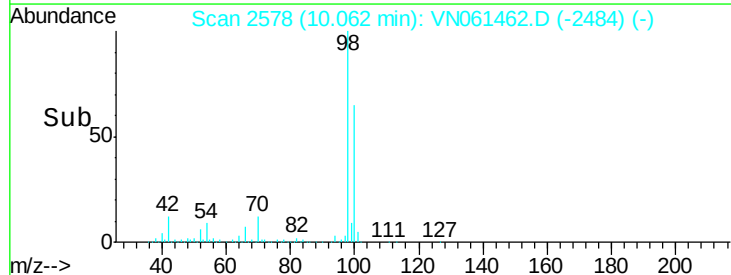
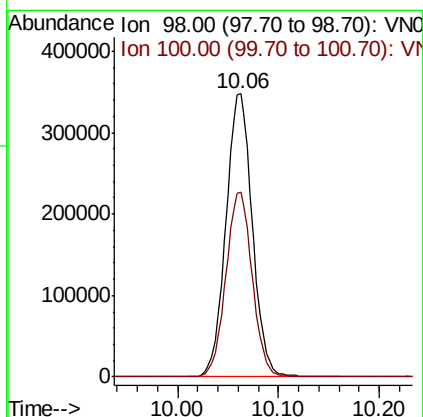
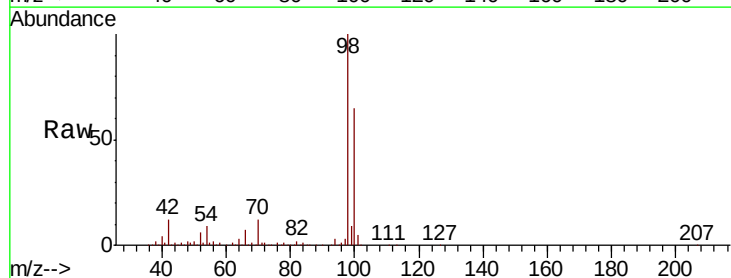
Instrument :
MSVOA_N
ClientSampled :

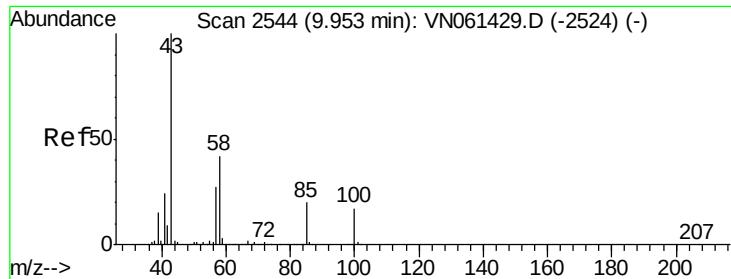
Tot Ion: 88 Resp: 67
Ion Ratio Lower Upper
88 100
43 0.0 26.3 39.5#
58 2180.6 54.1 81.1#



#50
Toluene-d8
Concen: 52.625 ug/l
RT: 10.06 min Scan# 2578
Delta R.T. 0.00 min
Lab File: VN061462.D
Acq: 19 May 2020 6:09

Tgt Ion: 98 Resp: 635210
Ion Ratio Lower Upper
98 100
100 65.3 51.8 77.8

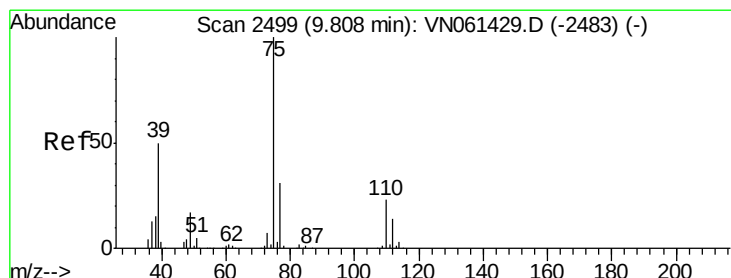
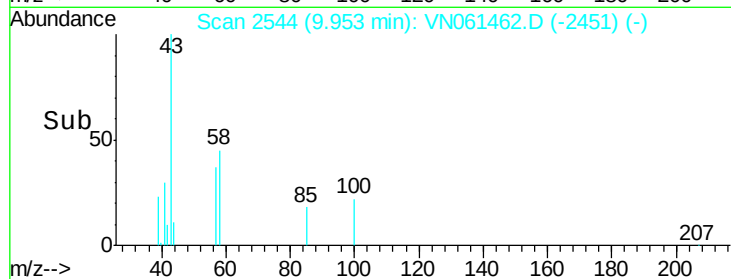
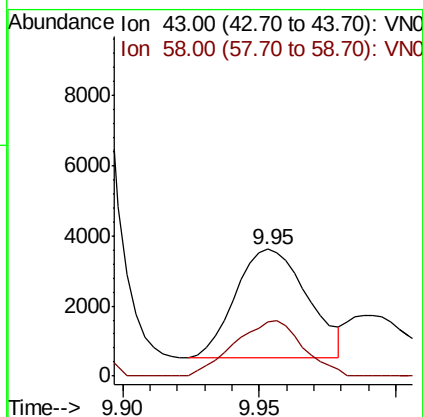
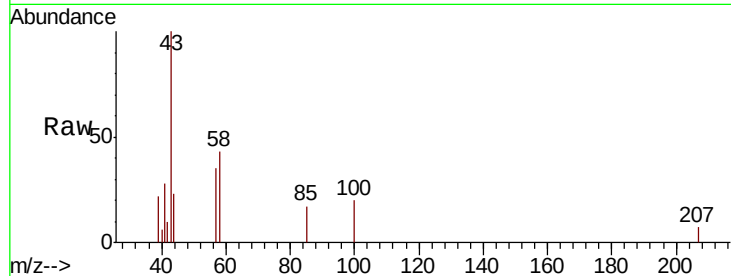




#51
4-Methyl-2-Pentanone
Concen: 1.416 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. -0.00 min
Lab File: VN061462.D
Acq: 19 May 2020 6:09

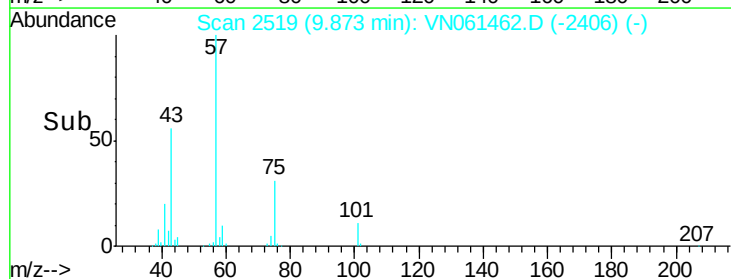
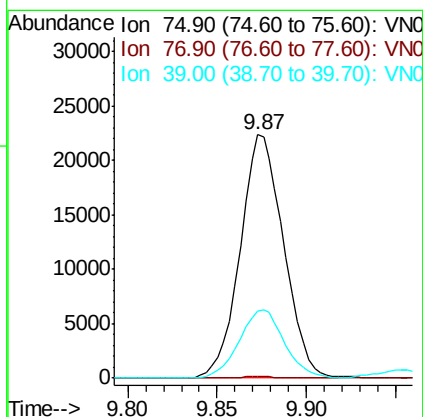
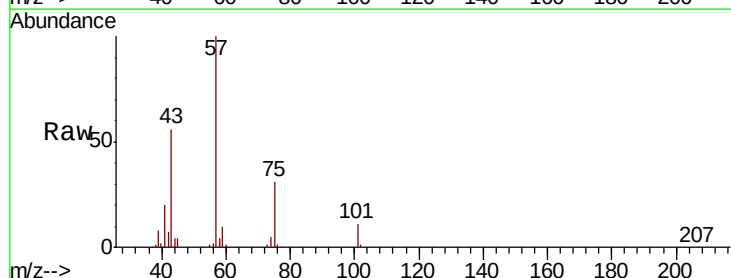
Instrument :
MSVOA_N
ClientSampled :

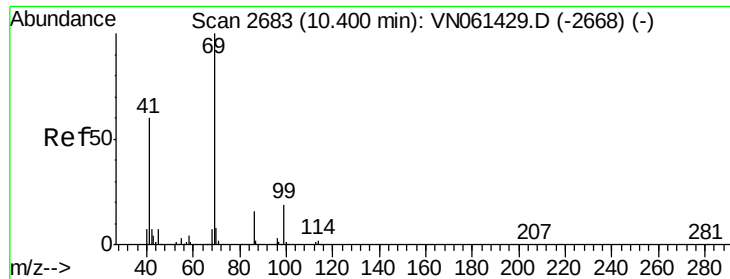
Tot Ion: 43 Resp: 5669
Ion Ratio Lower Upper
43 100
58 48.8 33.4 50.2



#54
cis-1,3-Dichloropropene
Concen: 6.291 ug/l
RT: 9.87 min Scan# 2519
Delta R.T. 0.06 min
Lab File: VN061462.D
Acq: 19 May 2020 6:09

Tgt Ion: 75 Resp: 37935
Ion Ratio Lower Upper
75 100
77 0.7 24.8 37.2#
39 27.3 39.8 59.6#





#56

Ethyl methacrylate

Concen: 0.210 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN061462.D

Acq: 19 May 2020 6:09

Instrument :

MSVOA_N

ClientSampled :

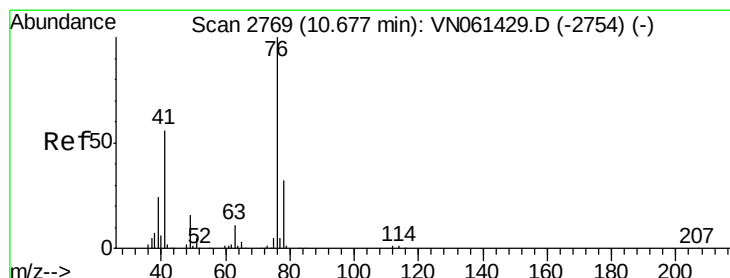
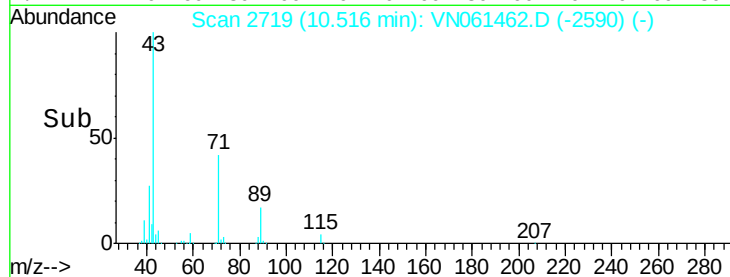
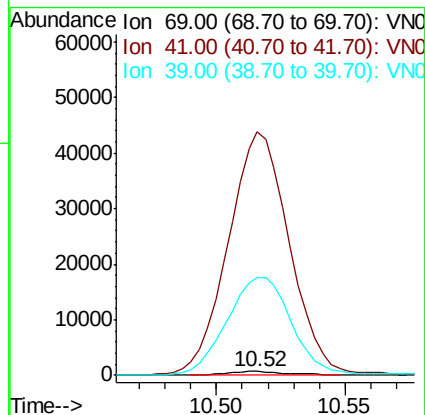
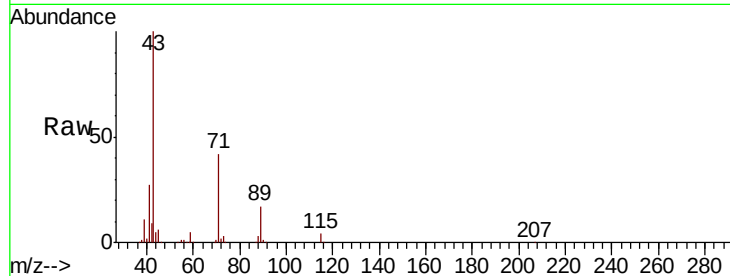
Tot Ion: 69 Resp: 1114

Ion Ratio Lower Upper

69 100

41 6533.4 48.3 72.5#

39 2754.9 30.2 45.2#



#57

1,3-Dichloropropane

Concen: 1.071 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.06 min

Lab File: VN061462.D

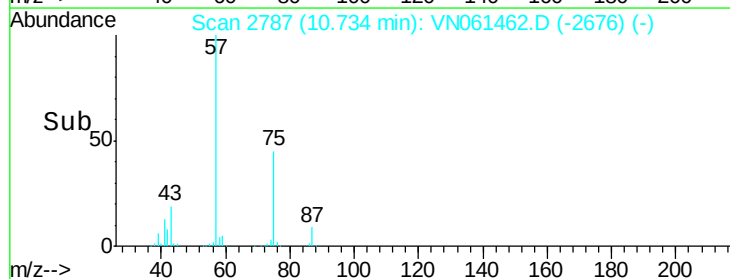
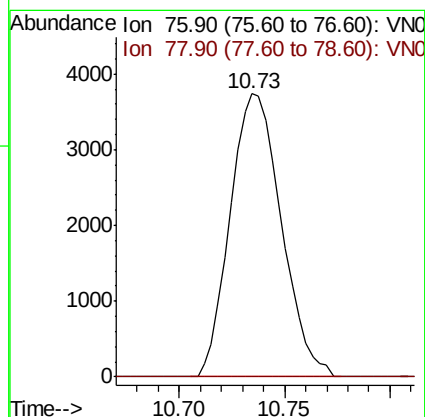
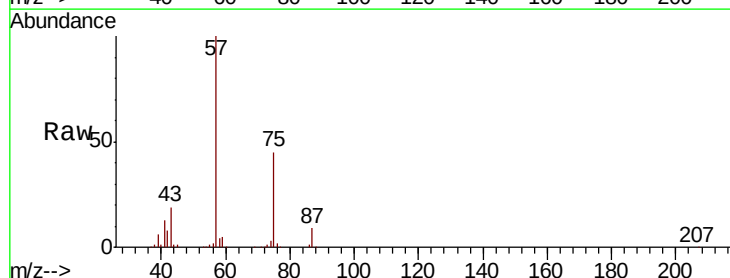
Acq: 19 May 2020 6:09

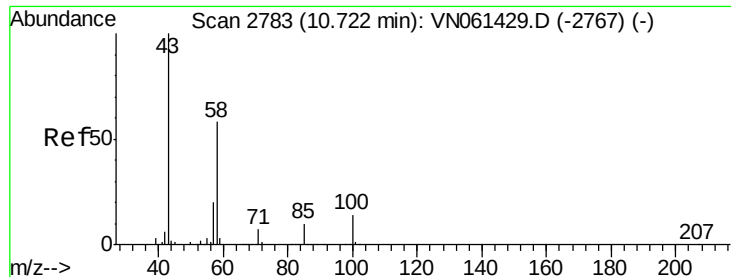
Tgt Ion: 76 Resp: 6287

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#





#59

2-Hexanone

Concen: 27.401 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN061462.D

Acq: 19 May 2020 6:09

Instrument :

MSVOA_N

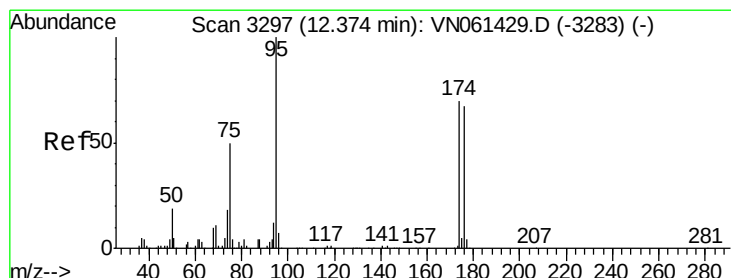
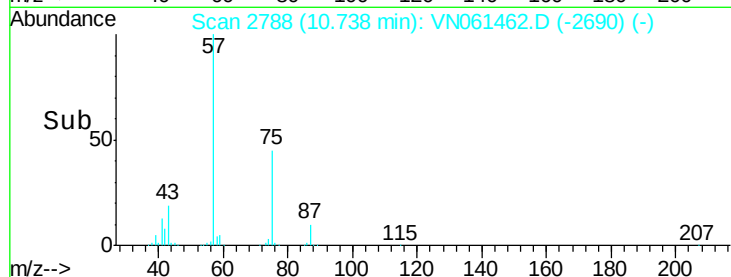
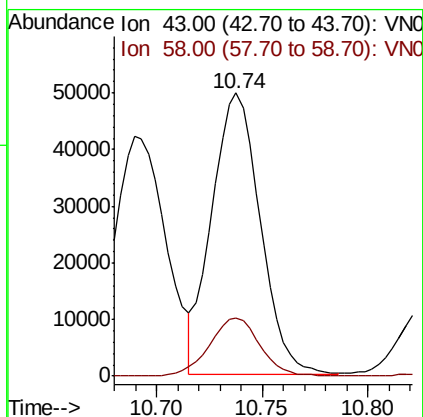
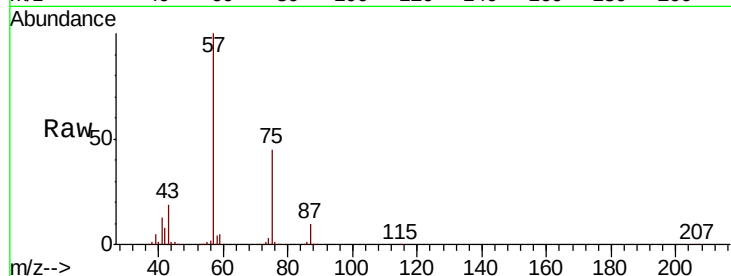
ClientSampled :

Tot Ion: 43 Resp: 79343

Ion Ratio Lower Upper

43 100

58 21.4 29.2 87.6#



#62

4-Bromofluorobenzene

Concen: 55.214 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061462.D

Acq: 19 May 2020 6:09

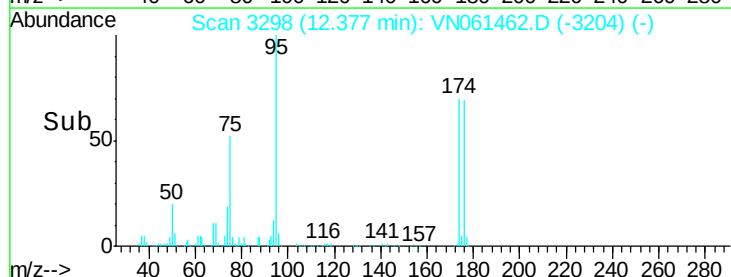
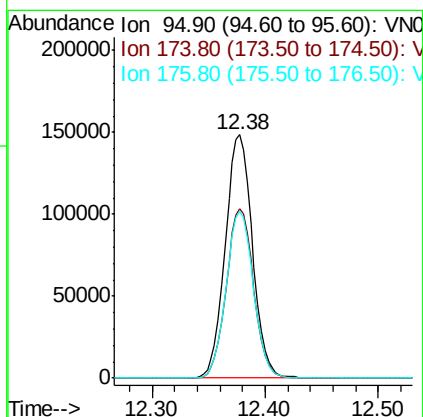
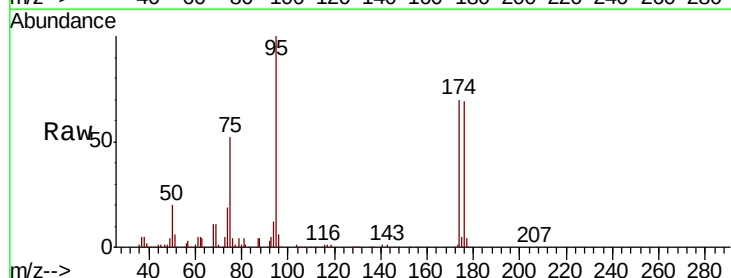
Tgt Ion: 95 Resp: 248995

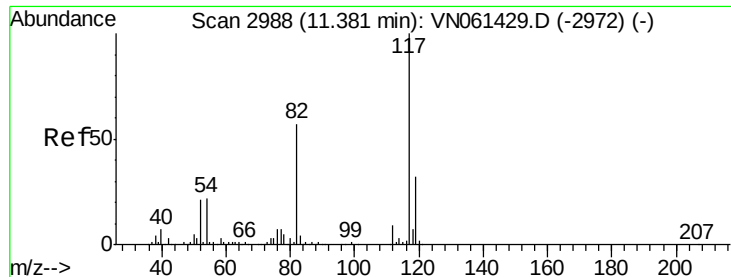
Ion Ratio Lower Upper

95 100

174 70.1 0.0 141.2

176 68.7 0.0 137.6

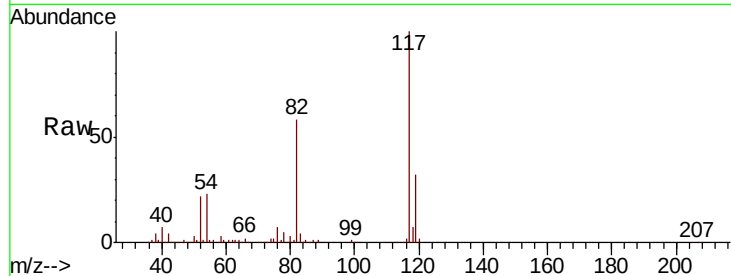




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061462.D
Acq: 19 May 2020 6:09

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.1	45.2	67.8
119	31.5	25.3	37.9

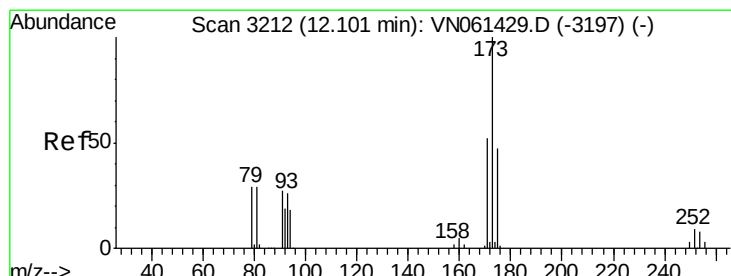
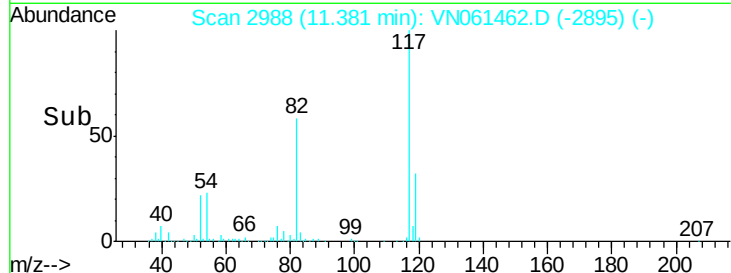
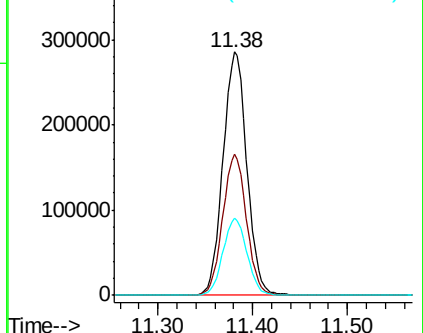


Abundance

Ion 116.90 (116.60 to 117.60): V

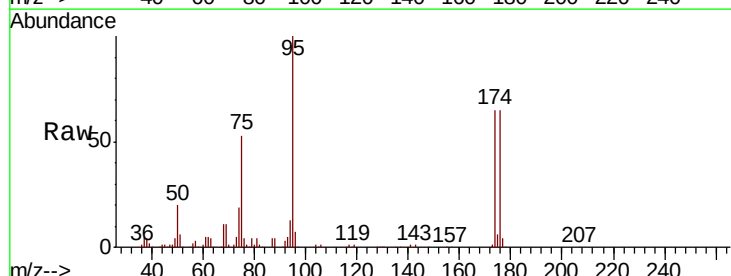
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#71
Bromoform
Concen: 2.179 ug/l
RT: 12.37 min Scan# 3295
Delta R.T. 0.27 min
Lab File: VN061462.D
Acq: 19 May 2020 6:09

Tgt Ion	Ratio	Lower	Upper
173	100		
175	0.0	23.9	71.8#
254	0.0	0.0	0.0

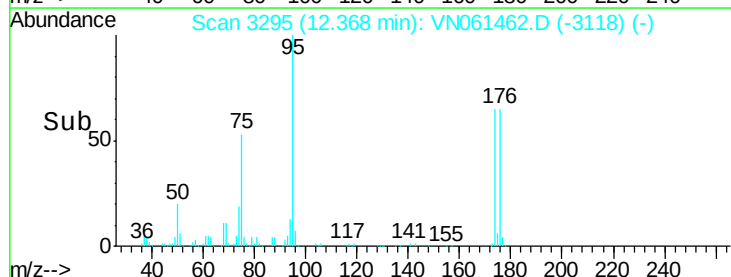
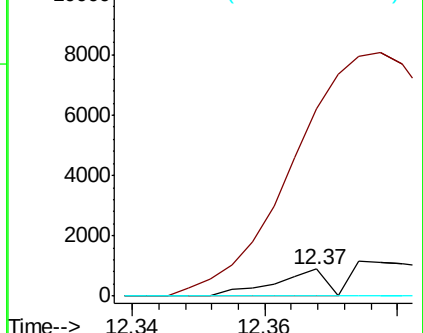


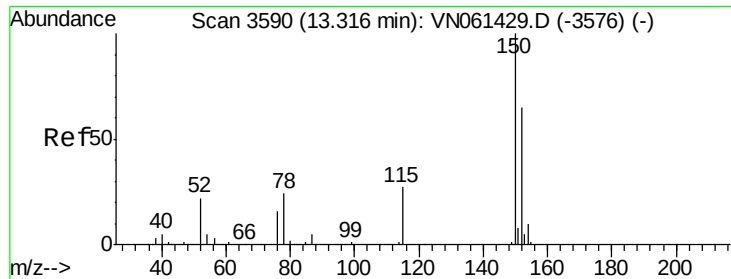
Abundance

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

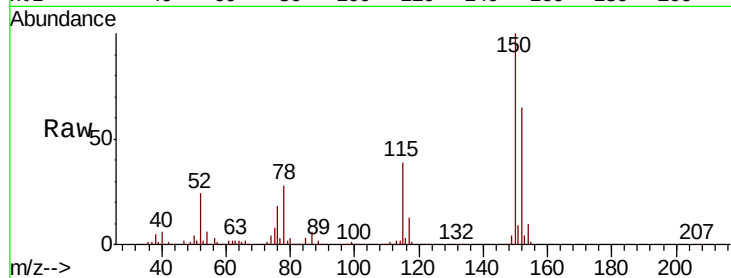




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.32 min Scan# 3591
 Delta R.T. 0.00 min
 Lab File: VN061462.D
 Acq: 19 May 2020 6:09

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	62.2	30.9	92.5
150	156.7	0.0	349.2

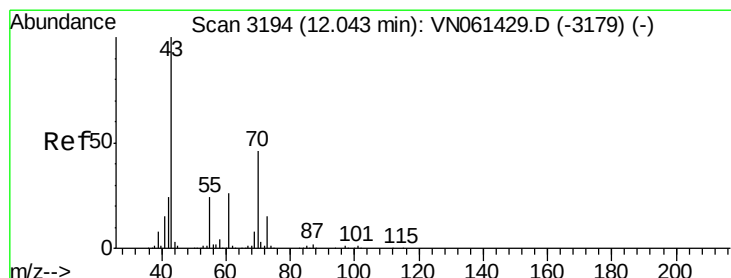
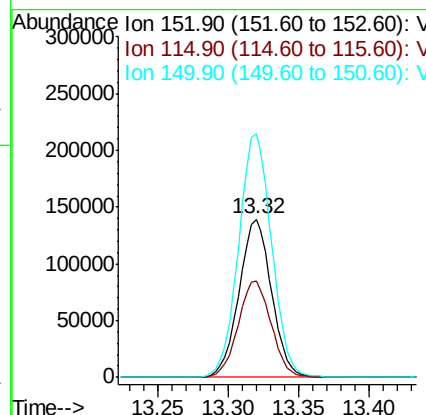
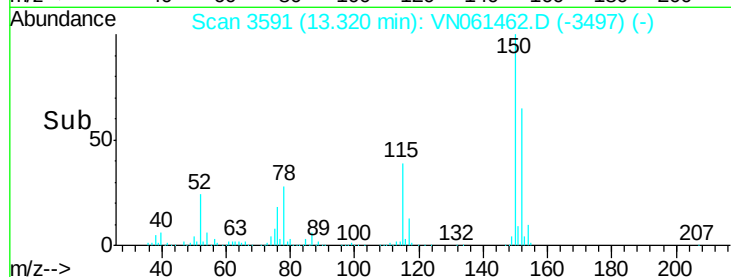


Abundance

Ion 151.90 (151.60 to 152.60): V

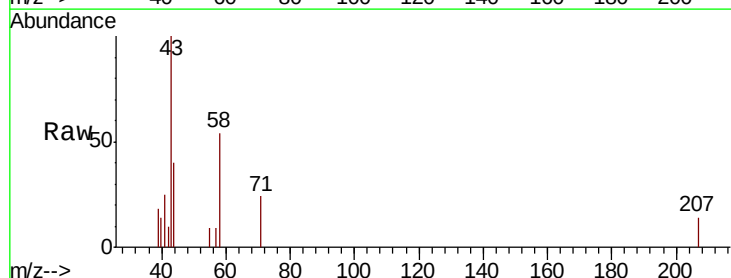
Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74
 N-ethyl acetate
 Concen: 0.612 ug/l
 RT: 12.00 min Scan# 3182
 Delta R.T. -0.04 min
 Lab File: VN061462.D
 Acq: 19 May 2020 6:09

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	37.0	55.4#
55	8.8	19.5	29.3#
61	0.0	20.8	31.2#



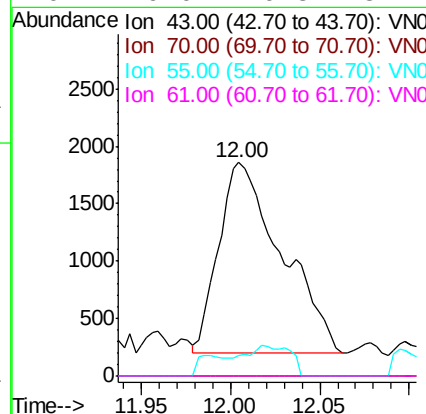
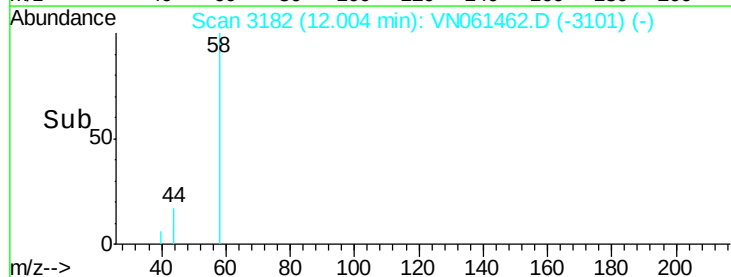
Abundance

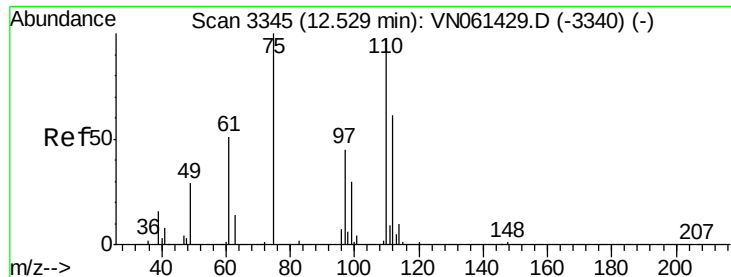
Ion 43.00 (42.70 to 43.70): V

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: 26.977 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061462.D

Acq: 19 May 2020 6:09

Instrument :

MSVOA_N

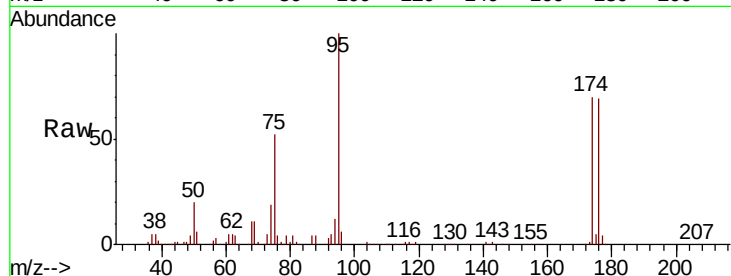
ClientSampled :

Tot Ion: 75 Resp: 130486

Ion Ratio Lower Upper

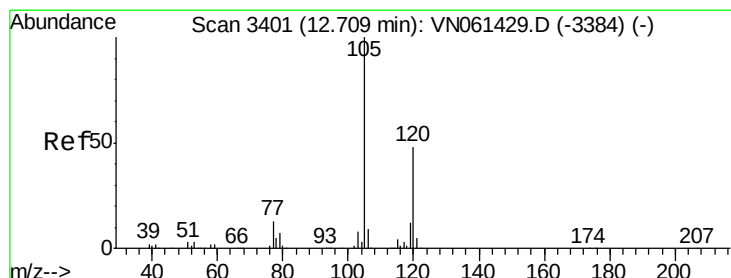
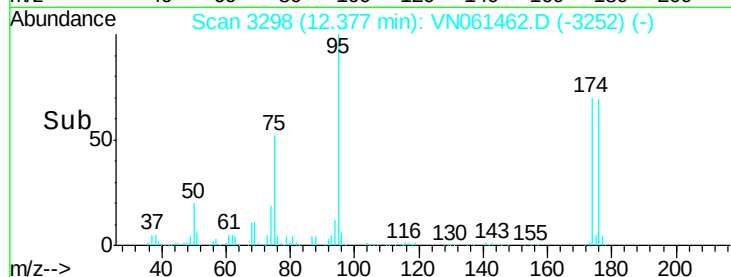
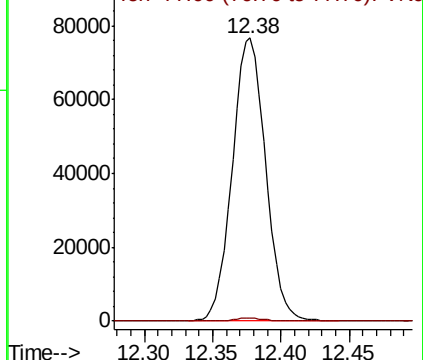
75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.275 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN061462.D

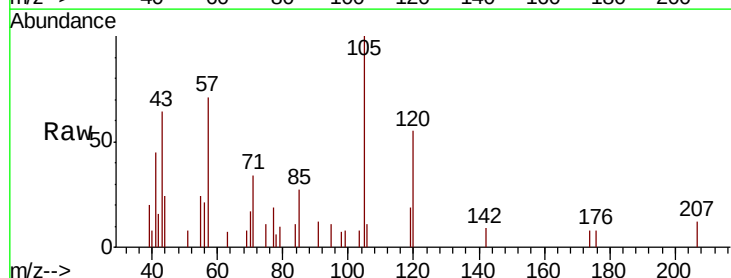
Acq: 19 May 2020 6:09

Tgt Ion:105 Resp: 4077

Ion Ratio Lower Upper

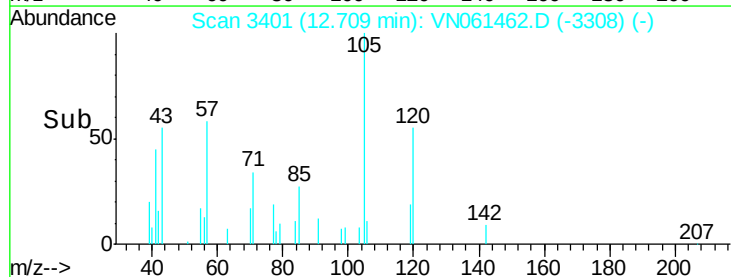
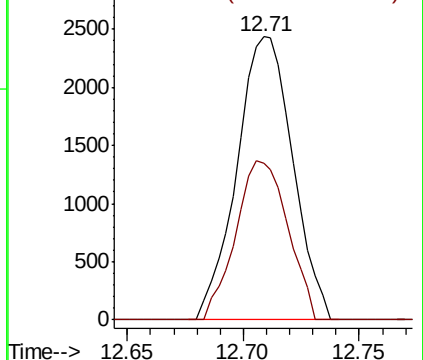
105 100

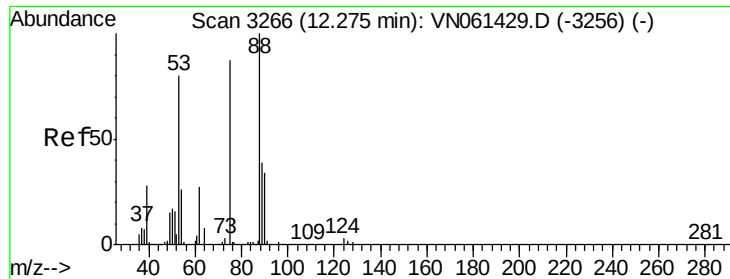
120 52.4 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 71.563 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061462.D

Acq: 19 May 2020 6:09

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 130486

Ion Ratio Lower Upper

75 100

53 0.0 75.2 112.8#

89 0.0 38.2 57.4#

