

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052920\
 Data File : VN061572.D
 Acq On : 29 May 2020 17:09
 Operator : JC/MD
 Sample : PB129155ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 30 04:44:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	268366	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	486035	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	496378	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	223205	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	174460	54.56	ug/l	0.00
Spiked Amount			Recovery	=	109.12%	
35) Dibromofluoromethane	7.55	113	129929	52.70	ug/l	0.00
Spiked Amount			Recovery	=	105.40%	
50) Toluene-d8	10.06	98	608656	53.27	ug/l	0.00
Spiked Amount			Recovery	=	106.54%	
62) 4-Bromofluorobenzene	12.38	95	230764	55.36	ug/l	0.00
Spiked Amount			Recovery	=	110.72%	

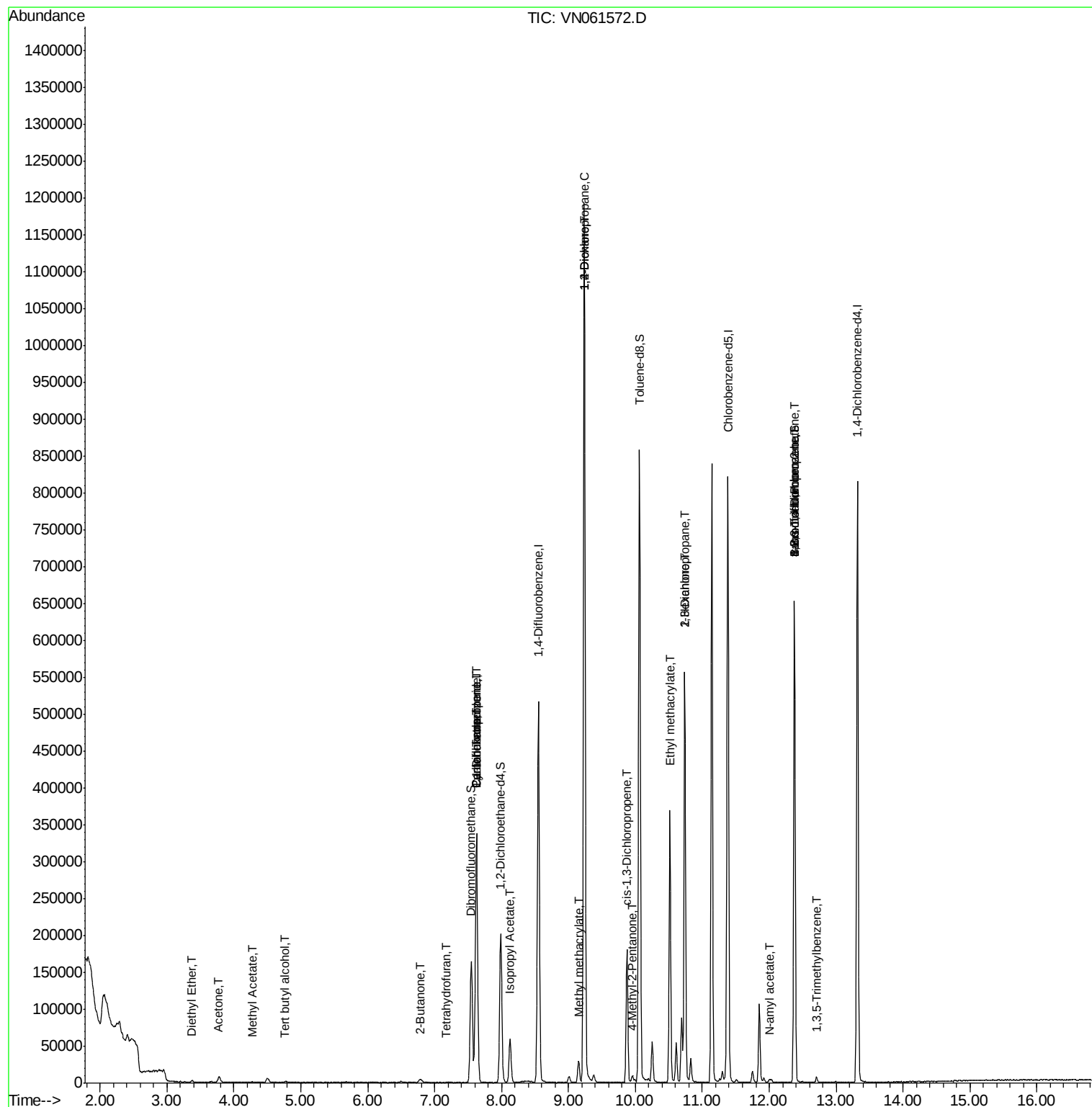
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.37	74	1054	0.596	ug/l	94
11) Tert butyl alcohol	4.74	59	141	0.332	ug/l #	72
16) Acetone	3.78	43	12228	7.871	ug/l	88
18) Methyl Acetate	4.28	43	2164	0.748	ug/l #	60
20) Methylene Chloride	4.51	84	4641	Below Cal		94
25) 2-Butanone	6.79	43	1785	1.178	ug/l	98
29) Tetrahydrofuran	7.17	42	317	0.317	ug/l #	25
31) Cyclohexane	7.63	56	5542	1.230	ug/l #	6
36) 1,1-Dichloropropene	7.63	75	20892	4.856	ug/l #	48
38) Carbon Tetrachloride	7.63	117	27496	6.625	ug/l #	16
43) Isopropyl Acetate	8.13	43	67289	10.792	ug/l #	90
45) 1,2-Dichloropropane	9.24	63	1678	0.532	ug/l #	44
48) Methyl methacrylate	9.15	41	3666	1.307	ug/l #	5
49) 1,4-Dioxane	9.24	88	166	3.820	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	6586	1.874	ug/l	93
54) cis-1,3-Dichloropropene	9.87	75	36860	6.643	ug/l #	60
56) Ethyl methacrylate	10.52	69	1048	0.217	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5567	1.008	ug/l #	42
59) 2-Hexanone	10.74	43	71065	28.164	ug/l #	50
71) Bromoform	12.38	173	1767	0.597	ug/l #	1
74) N-amyl acetate	12.00	43	3516	0.685	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	115075	28.352	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3944	0.290	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.38	75	115075	72.505	ug/l #	15

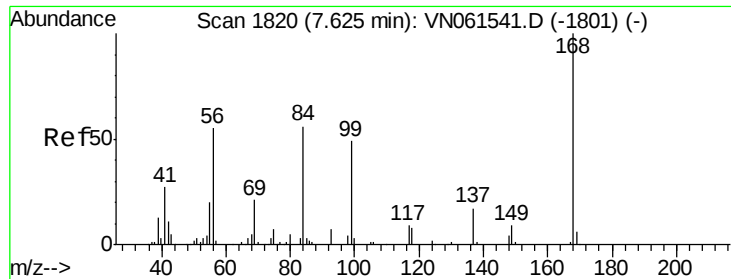
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :

Quant Time: May 30 04:44:28 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
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: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061572.D

Acq: 29 May 2020 17:09

Instrument :

MSVOA_N

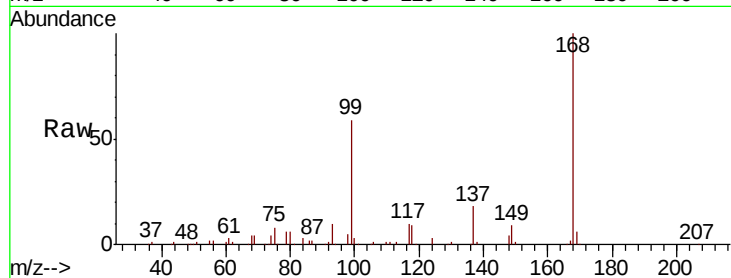
ClientSampled :

Tot Ion:168 Resp: 268366

Ion Ratio Lower Upper

168 100

99 59.0 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): VN061572.D (-1727) (-)

Ion 98.90 (98.60 to 99.60): VN061572.D (-1727) (-)

7.63

120000

100000

80000

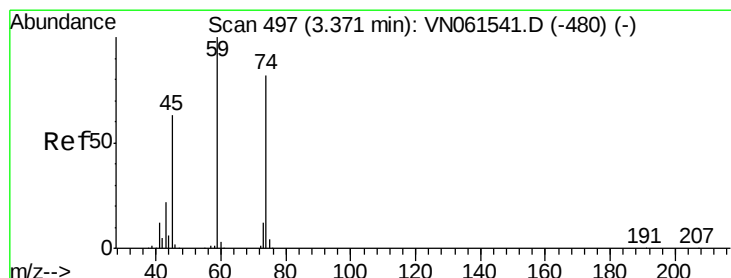
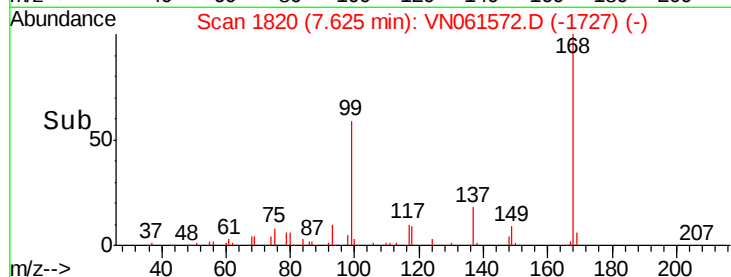
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#8

Diethyl Ether

Concen: 0.596 ug/l

RT: 3.37 min Scan# 497

Delta R.T. 0.00 min

Lab File: VN061572.D

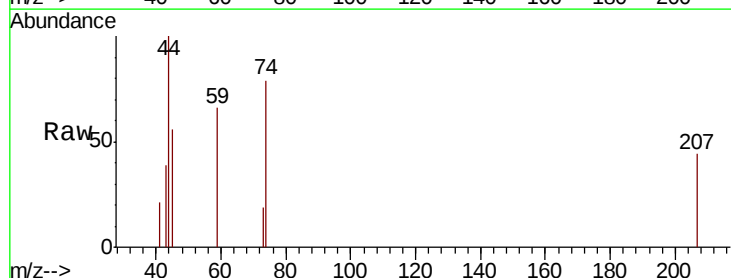
Acq: 29 May 2020 17:09

Tgt Ion: 74 Resp: 1054

Ion Ratio Lower Upper

74 100

45 74.3 39.9 119.7



Abundance Ion 74.00 (73.70 to 74.70): VN061572.D (-404) (-)

Ion 45.00 (44.70 to 45.70): VN061572.D (-404) (-)

3.37

800

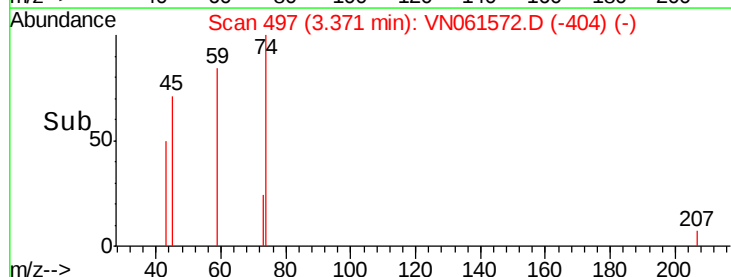
600

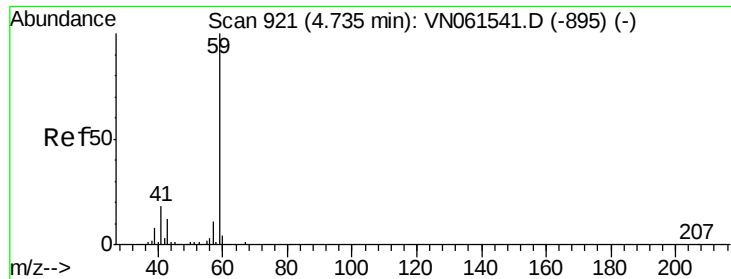
400

200

0

Time--> 3.34 3.36 3.38 3.40 3.42



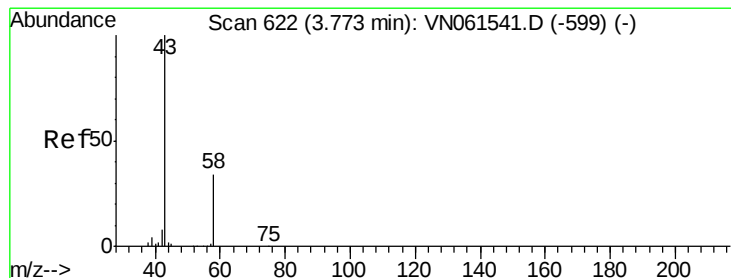
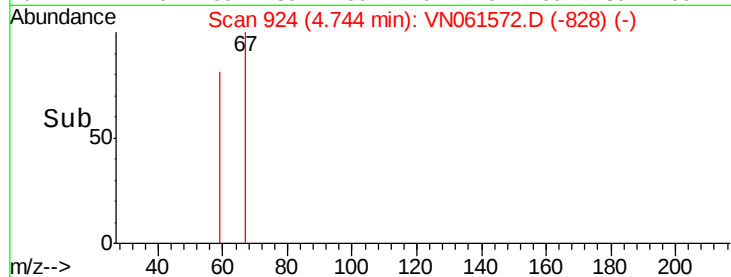
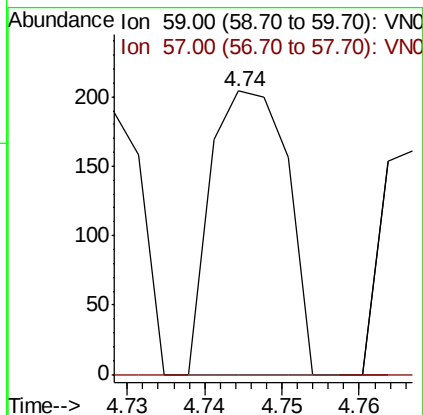
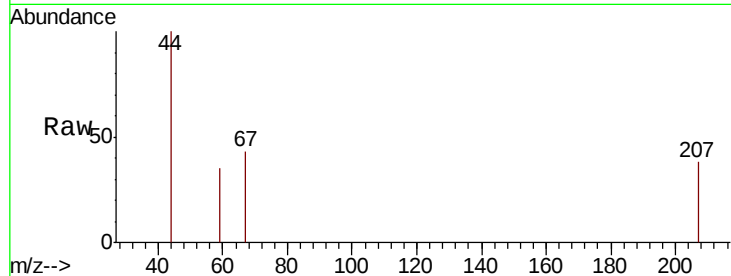


#11

Tert butyl alcohol
 Concen: 0.332 ug/l
 RT: 4.74 min Scan# 924
 Delta R.T. 0.01 min
 Lab File: VN061572.D
 Acq: 29 May 2020 17:09

Instrument :
 MSVOA_N
 ClientSampled :

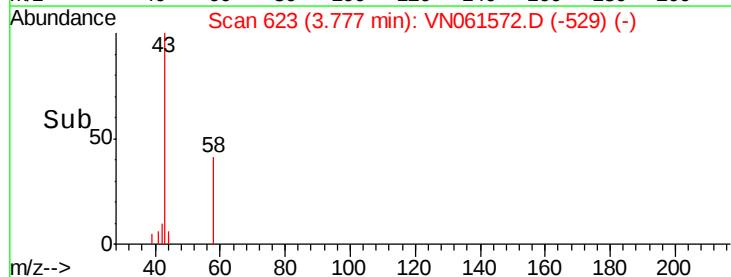
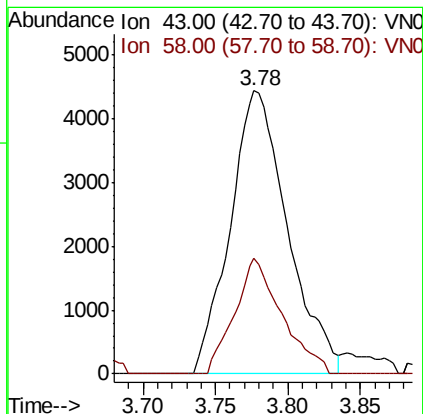
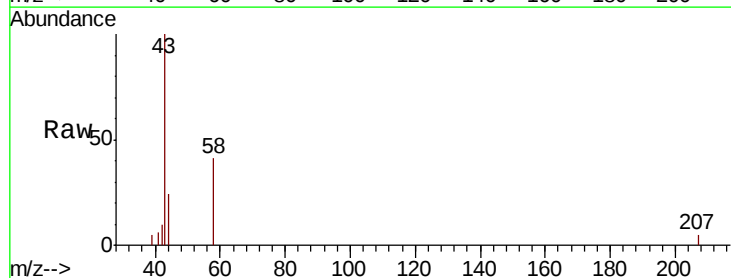
Tot Ion: 59 Resp: 141
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

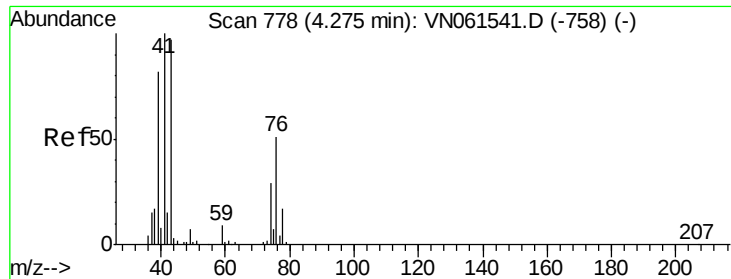


#16

Acetone
 Concen: 7.871 ug/l
 RT: 3.78 min Scan# 623
 Delta R.T. 0.00 min
 Lab File: VN061572.D
 Acq: 29 May 2020 17:09

Tgt Ion: 43 Resp: 12228
 Ion Ratio Lower Upper
 43 100
 58 40.7 27.2 40.8

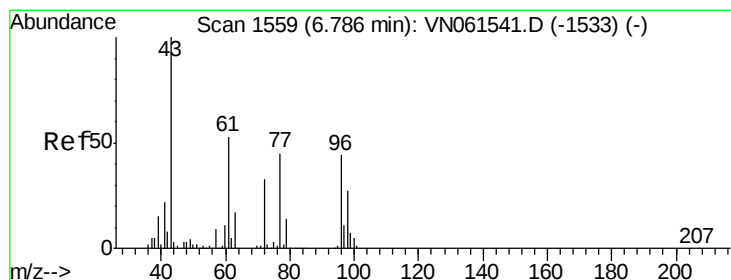
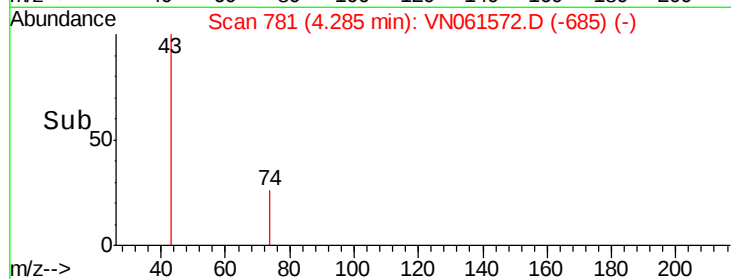
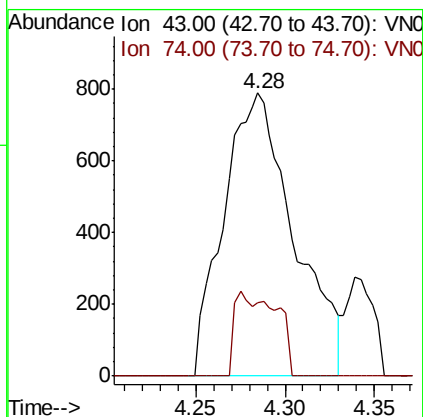
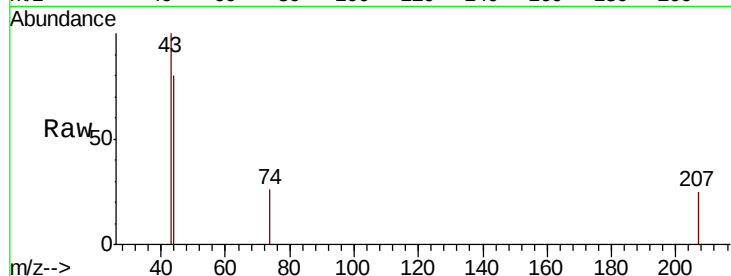




#18
Methyl Acetate
Concen: 0.748 ug/l
RT: 4.28 min Scan# 781
Delta R.T. 0.01 min
Lab File: VN061572.D
Acq: 29 May 2020 17:09

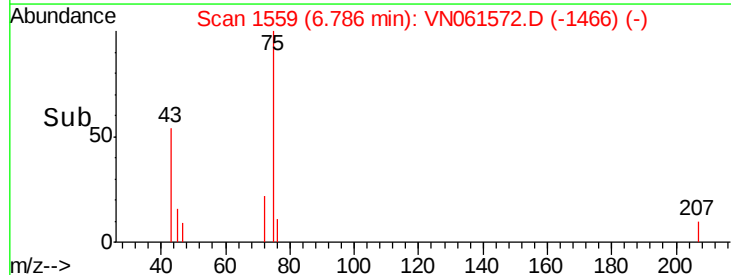
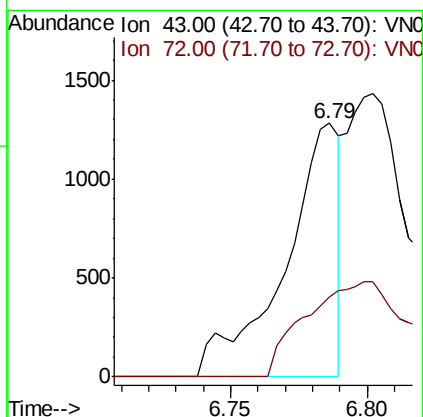
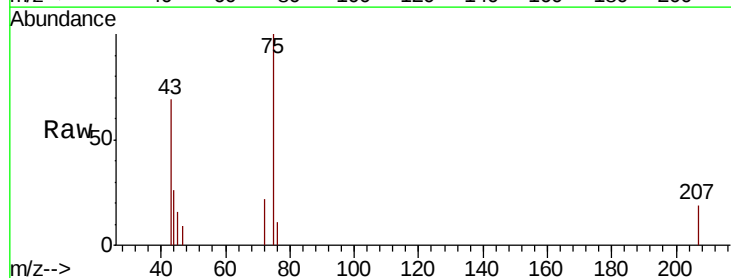
Instrument :
MSVOA_N
ClientSampled :

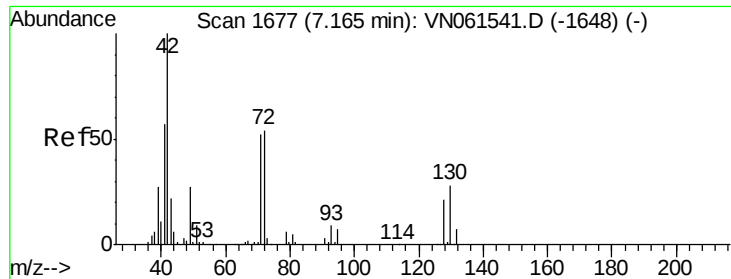
Tot Ion: 43 Resp: 2164
Ion Ratio Lower Upper
43 100
74 7.5 23.2 34.8#



#25
2-Butanone
Concen: 1.178 ug/l
RT: 6.79 min Scan# 1559
Delta R.T. 0.00 min
Lab File: VN061572.D
Acq: 29 May 2020 17:09

Tgt Ion: 43 Resp: 1785
Ion Ratio Lower Upper
43 100
72 31.5 26.0 39.0

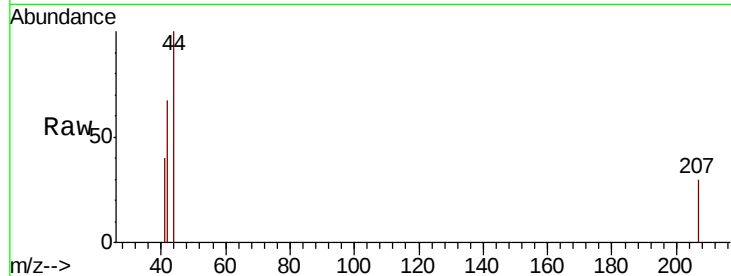




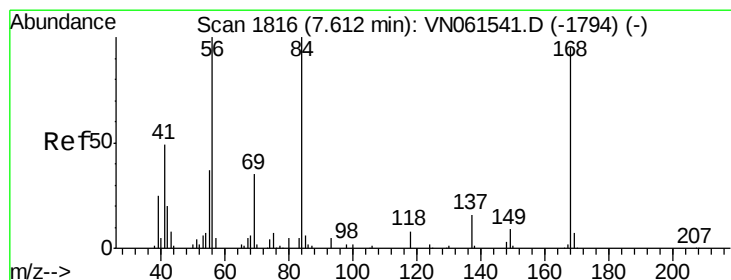
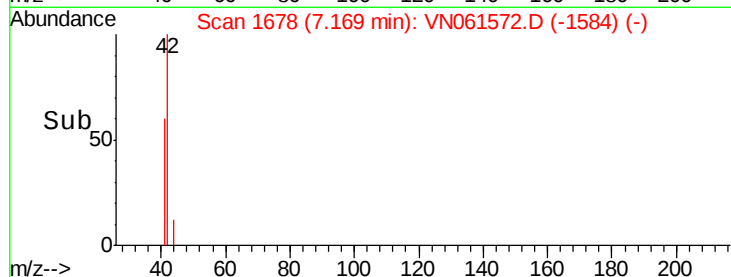
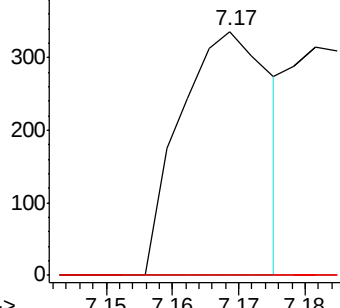
#29
Tetrahydrofuran
Concen: 0.317 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. 0.00 min
Lab File: VN061572.D
Acq: 29 May 2020 17:09

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 42 Resp: 317
Ion Ratio Lower Upper
42 100
72 0.0 43.6 65.4#
71 0.0 41.2 61.8#

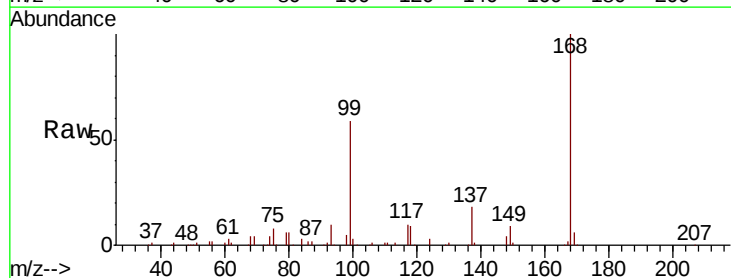


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

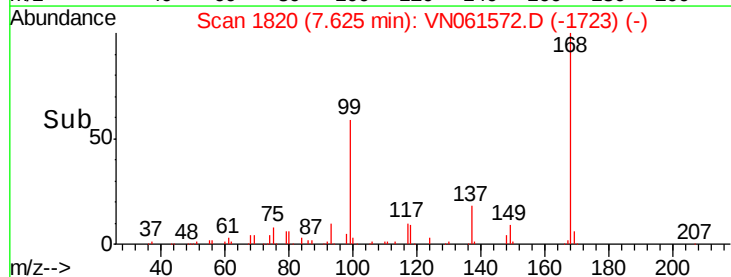
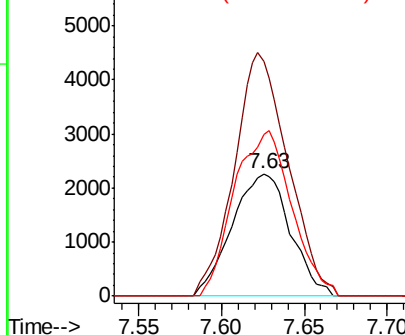


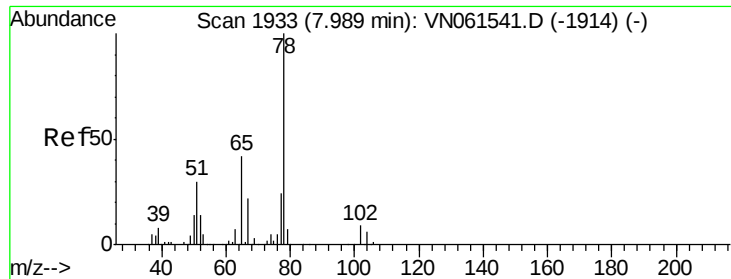
#31
Cyclohexane
Concen: 1.230 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061572.D
Acq: 29 May 2020 17:09

Tgt Ion: 56 Resp: 5542
Ion Ratio Lower Upper
56 100
69 192.5 27.8 41.8#
84 132.3 79.9 119.9#



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: 54.563 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061572.D

Acq: 29 May 2020 17:09

Instrument :

MSVOA_N

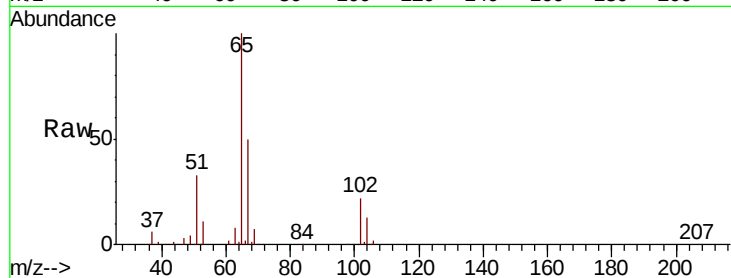
ClientSampleId :

Tot Ion: 65 Resp: 174460

Ion Ratio Lower Upper

65 100

67 51.4 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN061541.D (-1914) (-)

Ion 66.90 (66.60 to 67.60): VN061541.D (-1914) (-)

7.99

80000

60000

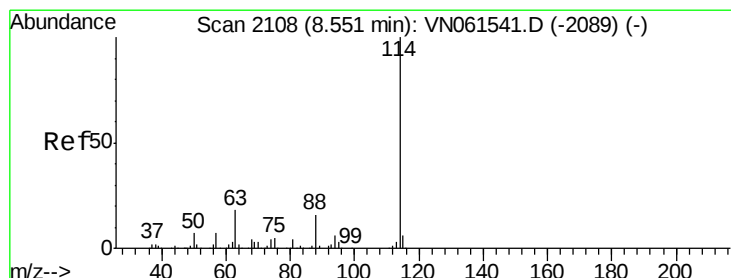
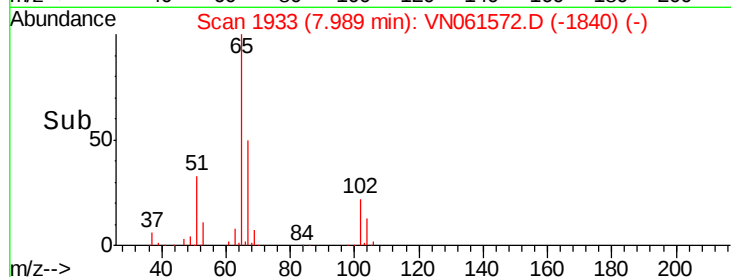
40000

20000

0

7.90 7.95 8.00 8.05 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN061572.D

Acq: 29 May 2020 17:09

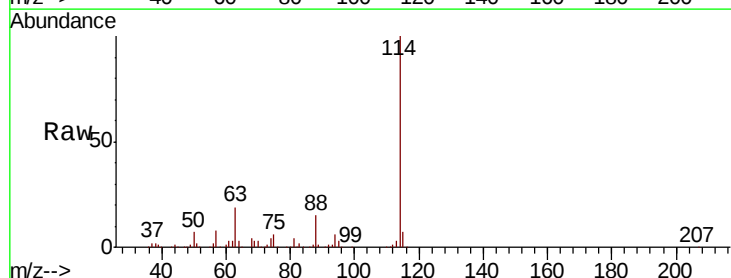
Tgt Ion: 114 Resp: 486035

Ion Ratio Lower Upper

114 100

63 19.0 0.0 35.8

88 15.1 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): VN061541.D (-2089) (-)

Ion 63.00 (62.70 to 63.70): VN061541.D (-2089) (-)

Ion 87.90 (87.60 to 88.60): VN061541.D (-2089) (-)

8.55

300000

250000

200000

150000

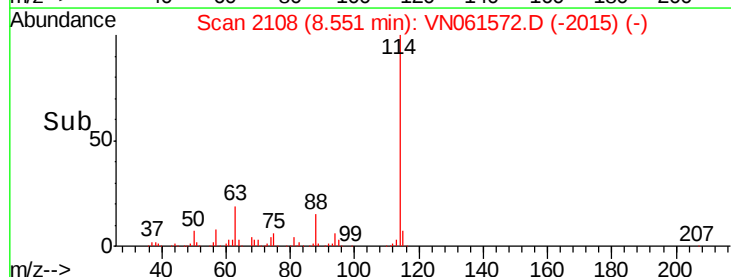
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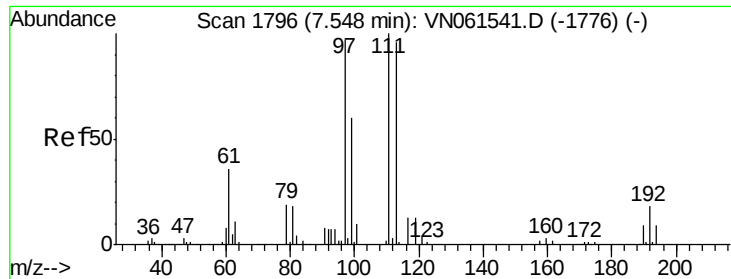
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0

8.40 8.50 8.60 8.70

Time-->

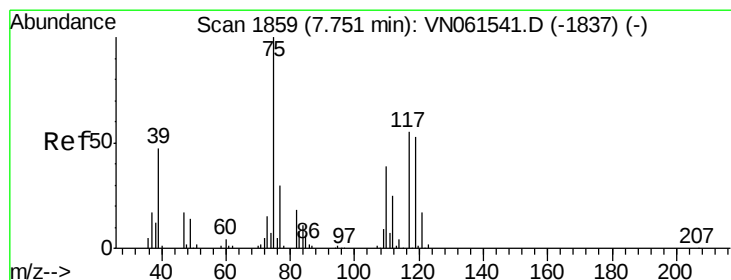
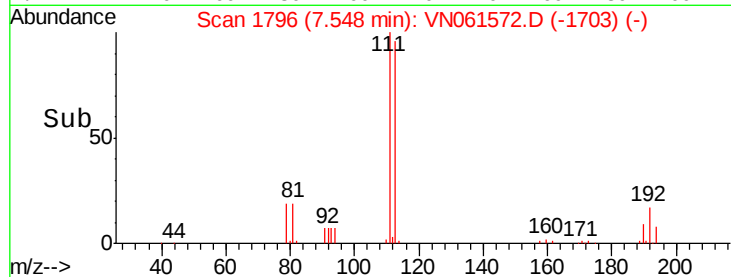
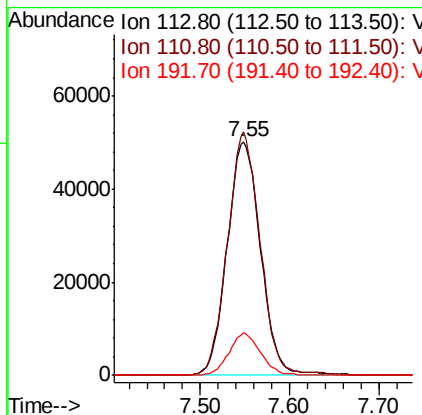
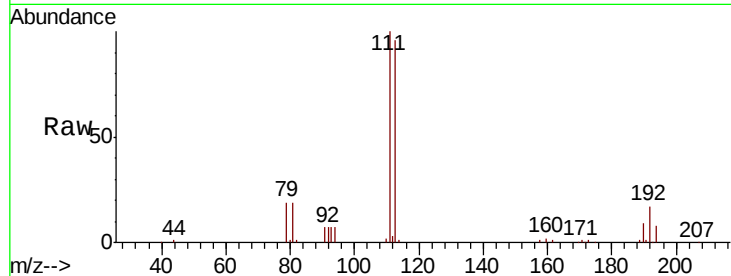




#35
 Dibromofluoromethane
 Concen: 52.697 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN061572.D
 Acq: 29 May 2020 17:09

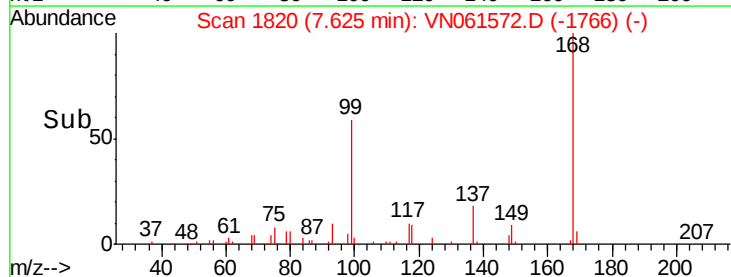
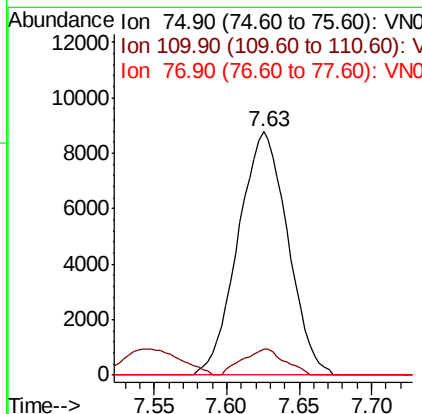
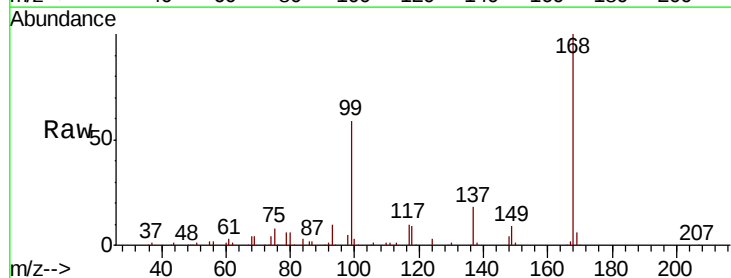
Instrument :
 MSVOA_N
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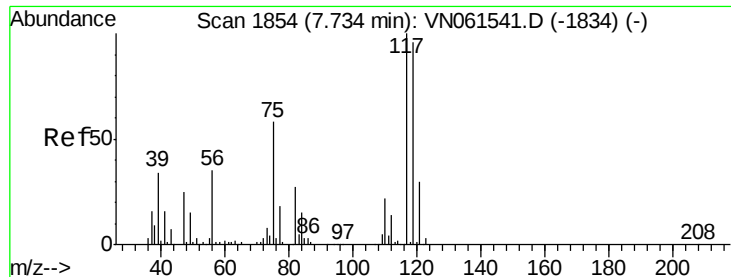
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.1	83.4	125.0
192	17.1	15.4	23.2



#36
 1,1-Dichloropropene
 Concen: 4.856 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061572.D
 Acq: 29 May 2020 17:09

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	19.5	58.5#
77	0.0	24.7	37.1#

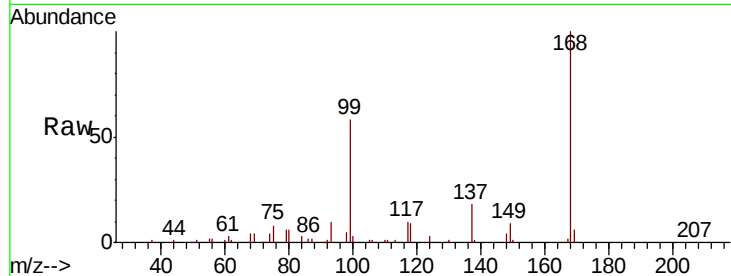




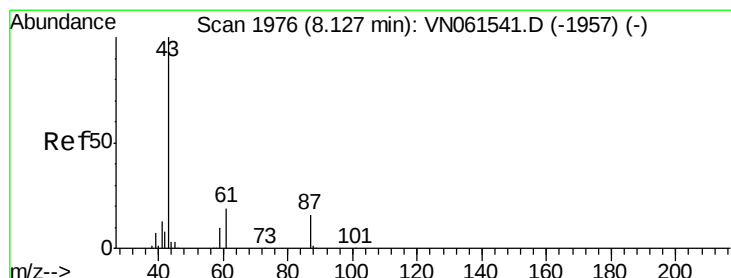
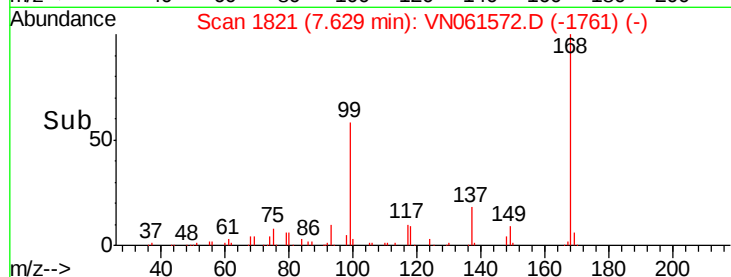
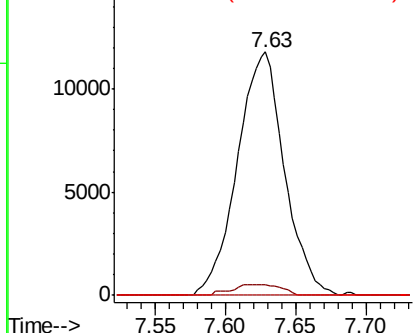
#38
Carbon Tetrachloride
Concen: 6.625 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. -0.11 min
Lab File: VN061572.D
Acq: 29 May 2020 17:09

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 27496
Ion Ratio Lower Upper
117 100
119 4.5 76.5 114.7#
121 0.0 24.1 36.1#

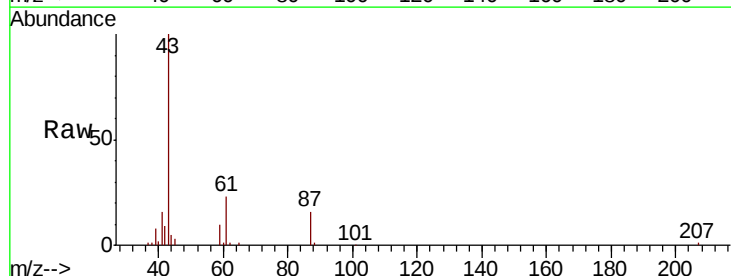


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

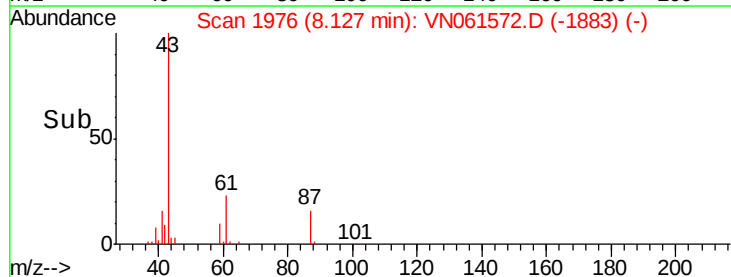
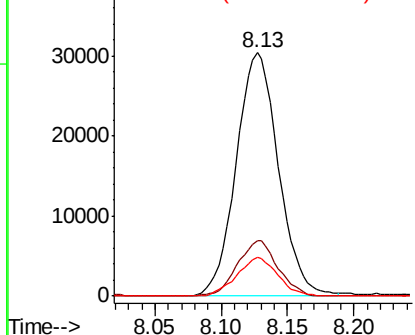


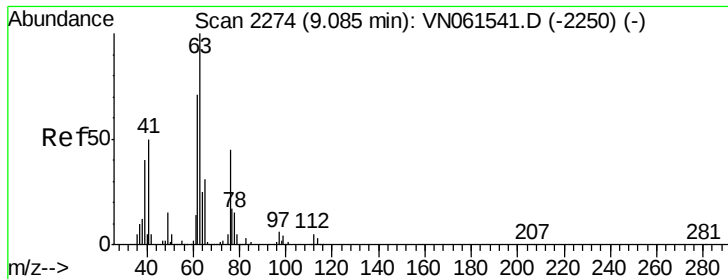
#43
Isopropyl Acetate
Concen: 10.792 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN061572.D
Acq: 29 May 2020 17:09

Tgt Ion: 43 Resp: 67289
Ion Ratio Lower Upper
43 100
61 21.6 23.6 35.4#
87 15.2 13.0 19.6



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: 0.532 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN061572.D

Acq: 29 May 2020 17:09

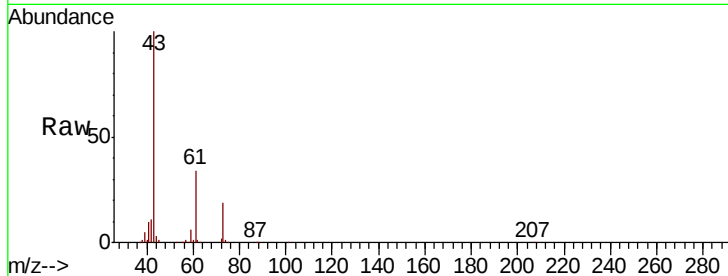
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 63 Resp: 1678

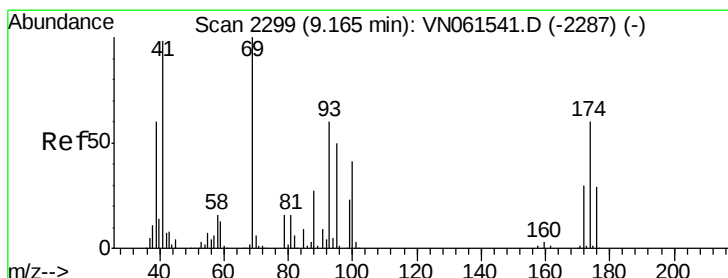
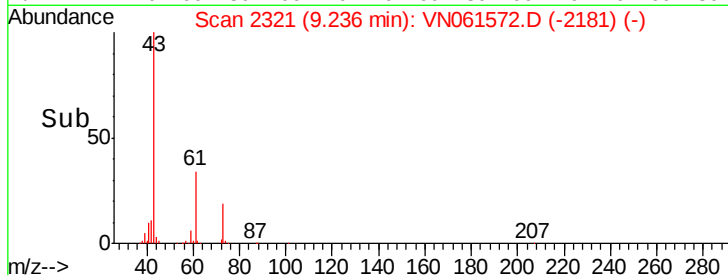
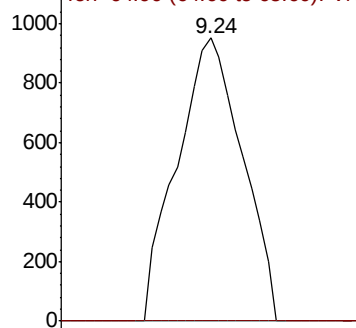
Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0
Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.307 ug/l

RT: 9.15 min Scan# 2293

Delta R.T. -0.02 min

Lab File: VN061572.D

Acq: 29 May 2020 17:09

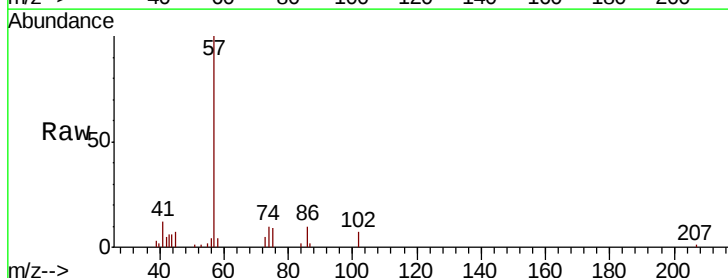
Tgt Ion: 41 Resp: 3666

Ion Ratio Lower Upper

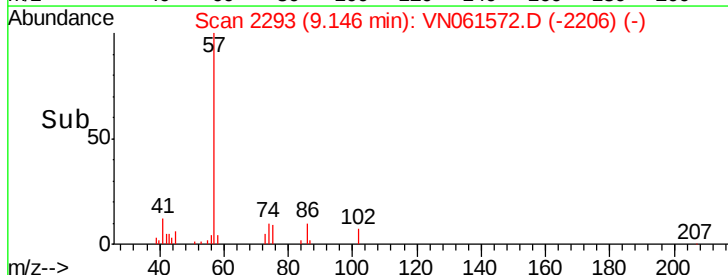
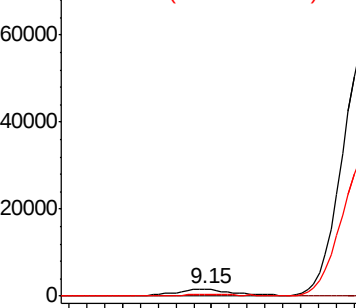
41 100

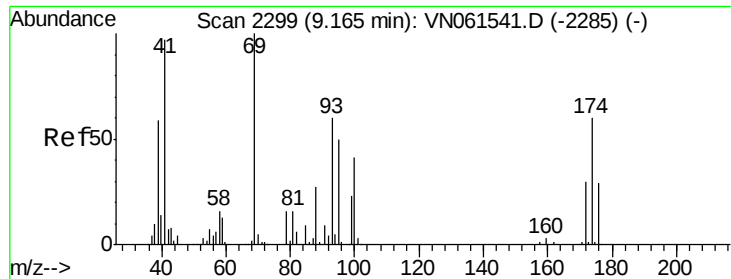
69 0.0 83.9 125.9#

39 0.0 52.1 78.1#



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





#49

1,4-Dioxane

Concen: 3.820 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.07 min

Lab File: VN061572.D

Acq: 29 May 2020 17:09

Instrument :
MSVOA_N
ClientSampleId :

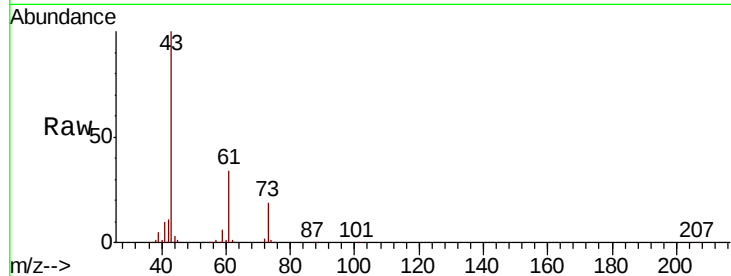
Tot Ion: 88 Resp: 166

Ion Ratio Lower Upper

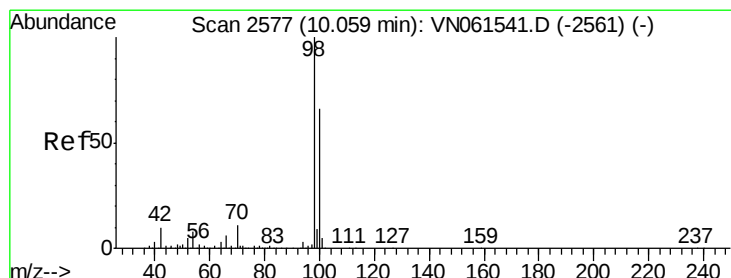
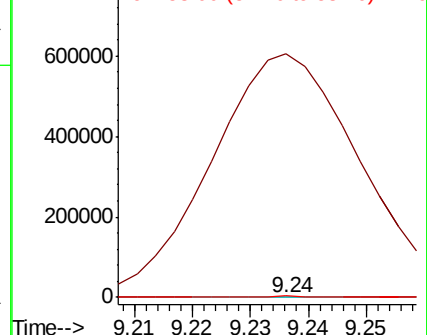
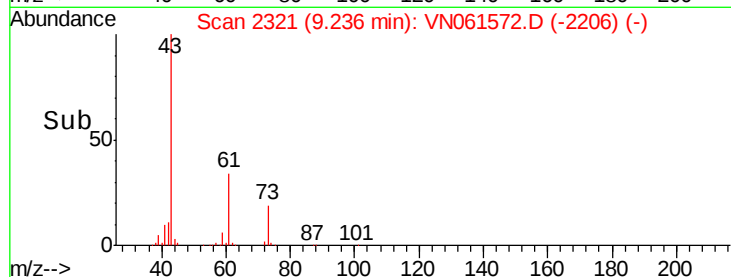
88 100

43 670160.2 23.1 34.7#

58 2989.2 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: 53.271 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.00 min

Lab File: VN061572.D

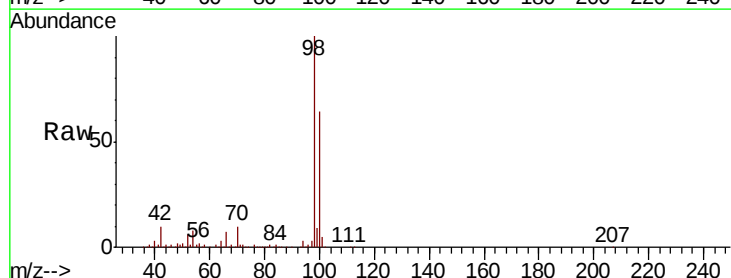
Acq: 29 May 2020 17:09

Tgt Ion: 98 Resp: 608656

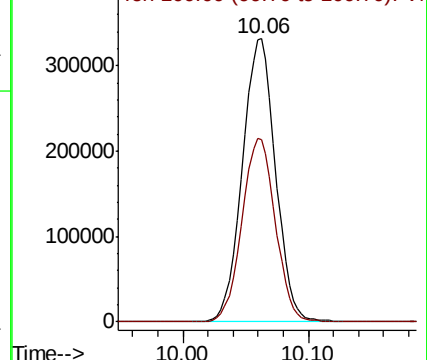
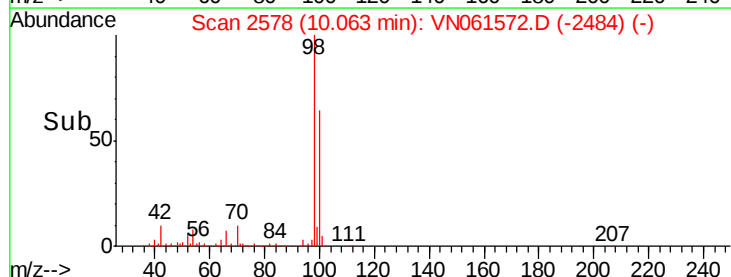
Ion Ratio Lower Upper

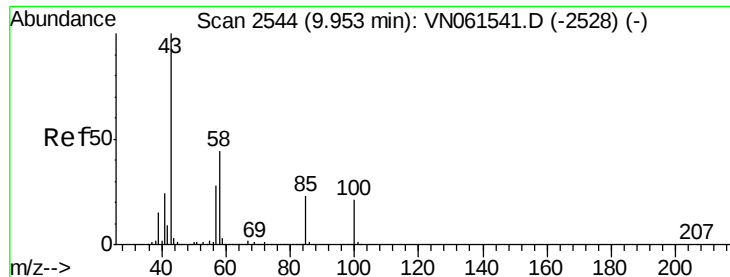
98 100

100 65.4 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

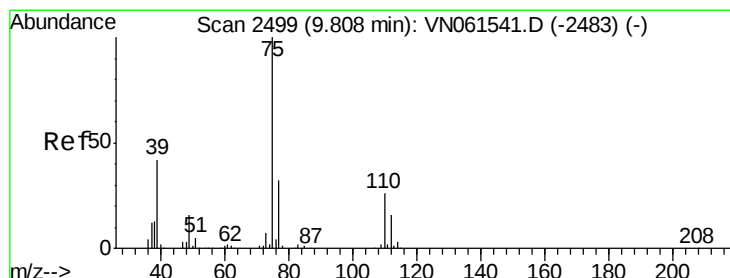
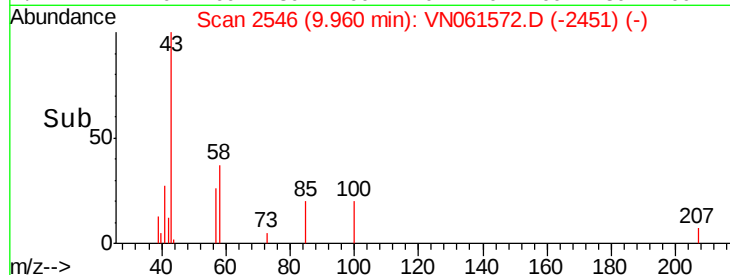
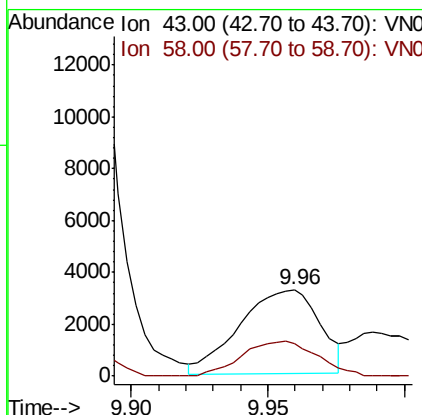
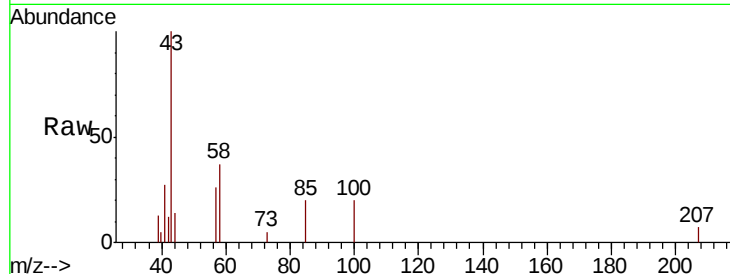




#51
 4-Methyl-2-Pentanone
 Concen: 1.874 ug/l
 RT: 9.96 min Scan# 2546
 Delta R.T. 0.01 min
 Lab File: VN061572.D
 Acq: 29 May 2020 17:09

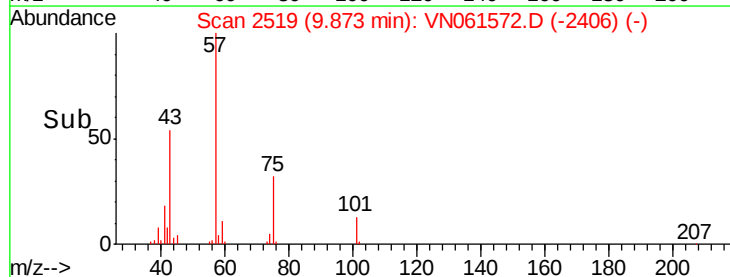
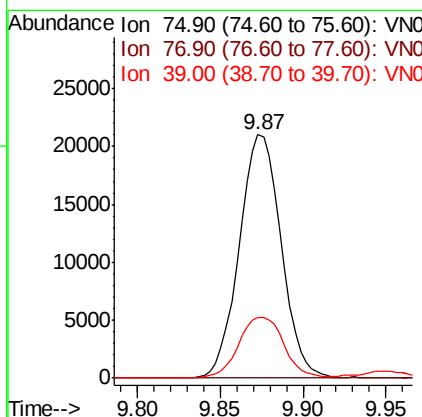
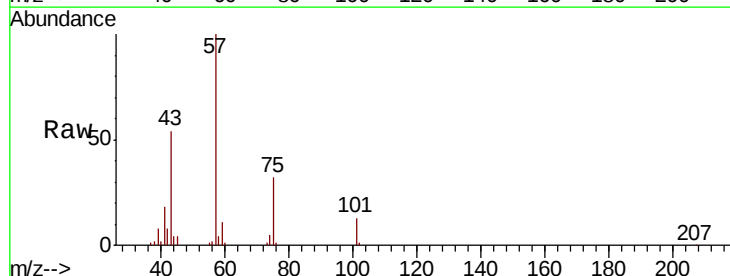
Instrument :
 MSVOA_N
 ClientSampled :

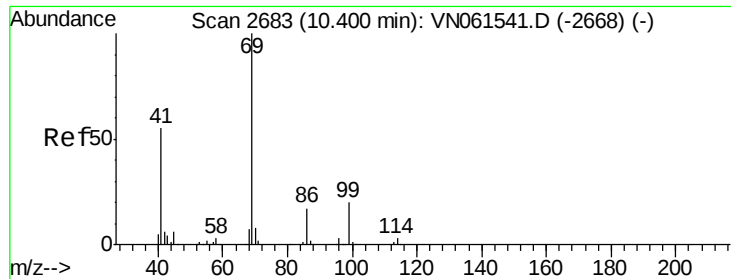
Tot Ion: 43 Resp: 6586
 Ion Ratio Lower Upper
 43 100
 58 39.1 35.0 52.6



#54
 cis-1,3-Dichloropropene
 Concen: 6.643 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN061572.D
 Acq: 29 May 2020 17:09

Tgt Ion: 75 Resp: 36860
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.2#
 39 25.0 33.8 50.6#





#56

Ethyl methacrylate

Concen: 0.217 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN061572.D

Acq: 29 May 2020 17:09

Instrument :

MSVOA_N

ClientSampled :

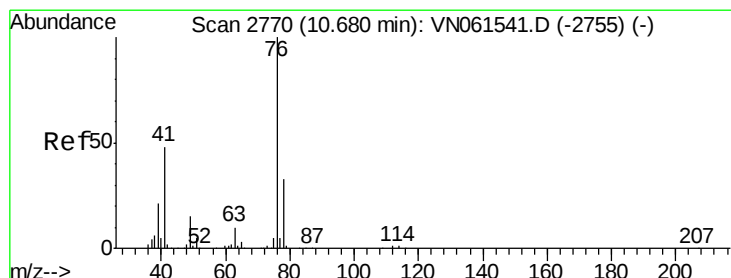
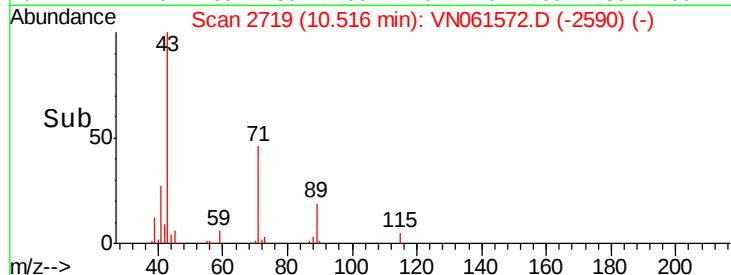
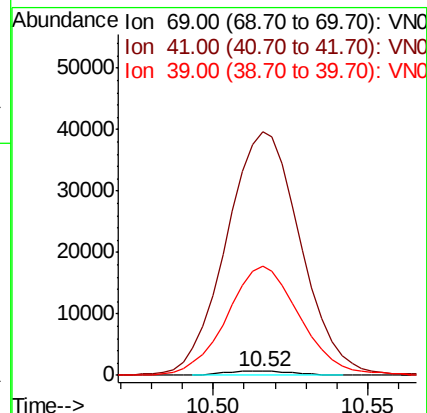
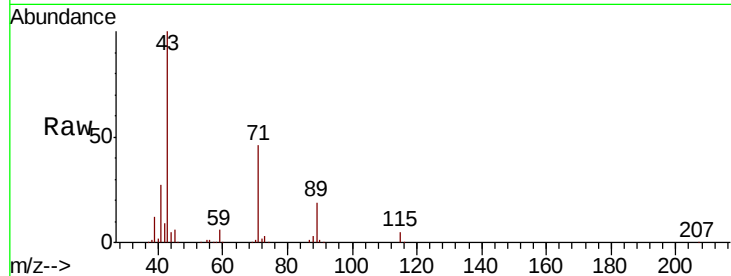
Tot Ion: 69 Resp: 1048

Ion Ratio Lower Upper

69 100

41 6344.3 43.5 65.3#

39 2801.8 27.0 40.6#



#57

1,3-Dichloropropane

Concen: 1.008 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN061572.D

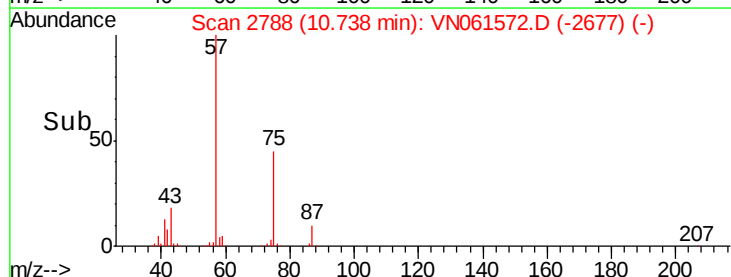
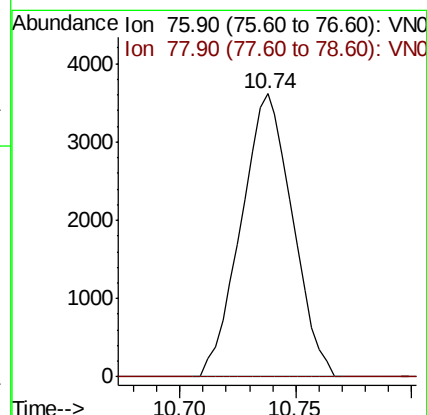
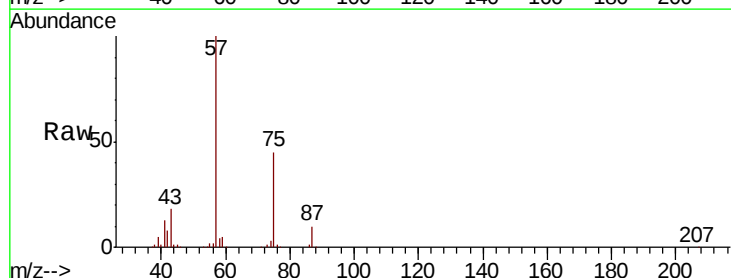
Acq: 29 May 2020 17:09

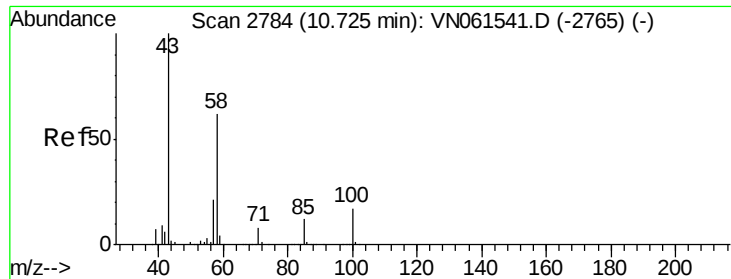
Tgt Ion: 76 Resp: 5567

Ion Ratio Lower Upper

76 100

78 0.0 26.3 39.5#





#59

2-Hexanone

Concen: 28.164 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.01 min

Lab File: VN061572.D

Acq: 29 May 2020 17:09

Instrument :

MSVOA_N

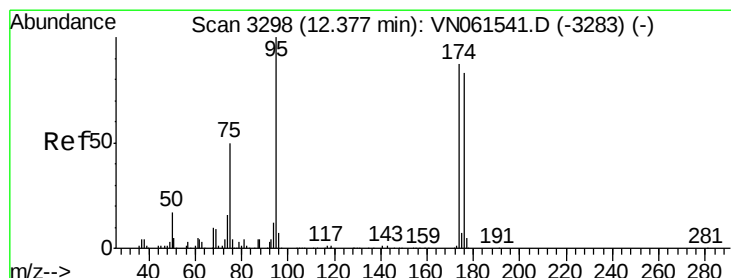
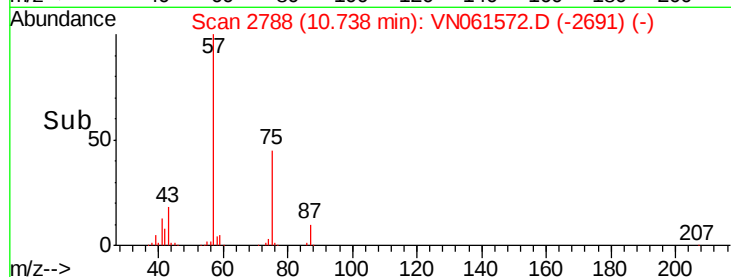
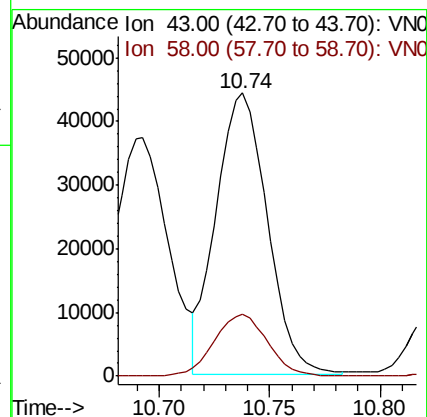
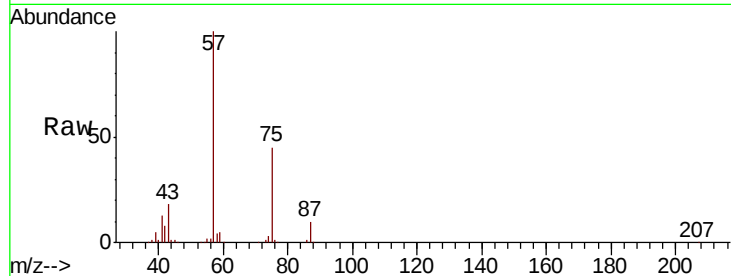
ClientSampled :

Tot Ion: 43 Resp: 71065

Ion Ratio Lower Upper

43 100

58 22.8 30.7 92.1#



#62

4-Bromofluorobenzene

Concen: 55.359 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061572.D

Acq: 29 May 2020 17:09

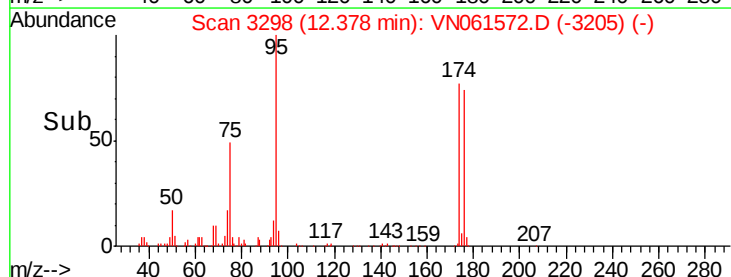
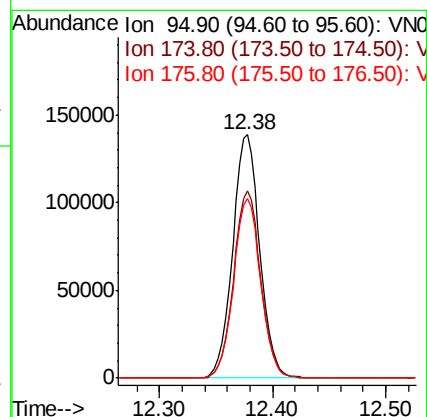
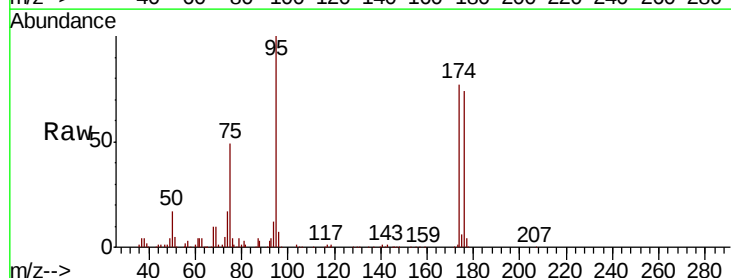
Tgt Ion: 95 Resp: 230764

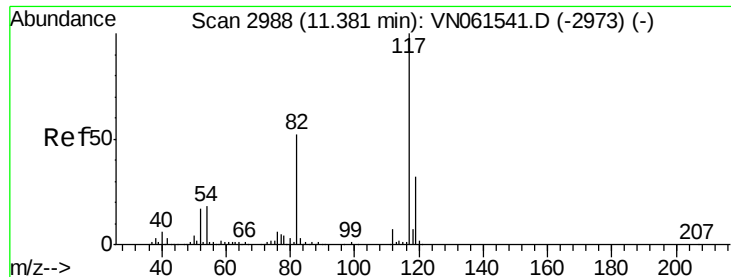
Ion Ratio Lower Upper

95 100

174 77.1 0.0 172.8

176 74.3 0.0 164.8

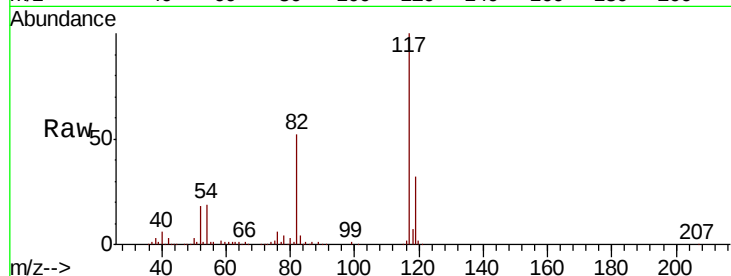




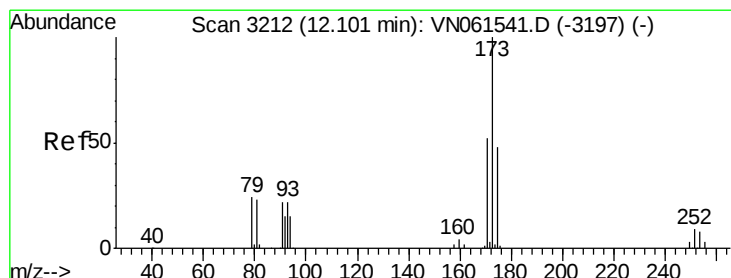
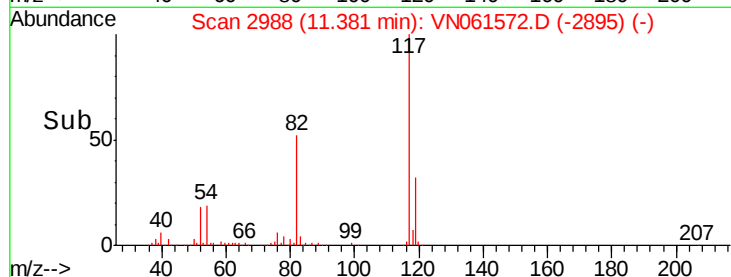
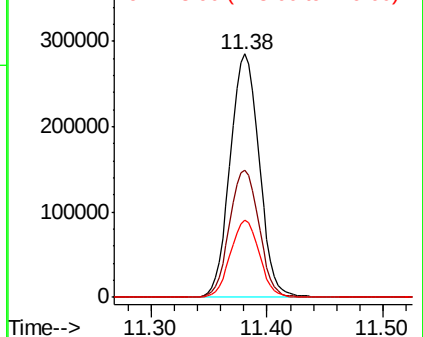
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061572.D
Acq: 29 May 2020 17:09

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 496378
Ion Ratio Lower Upper
117 100
82 52.5 41.5 62.3
119 31.6 25.6 38.4

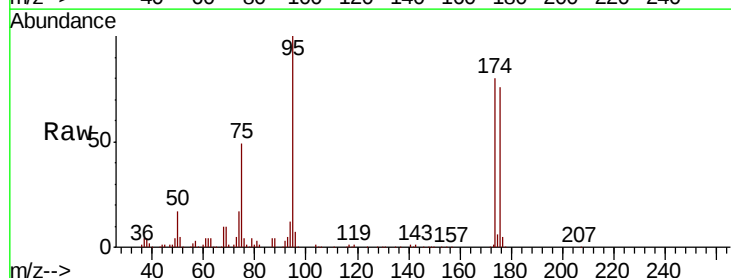


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

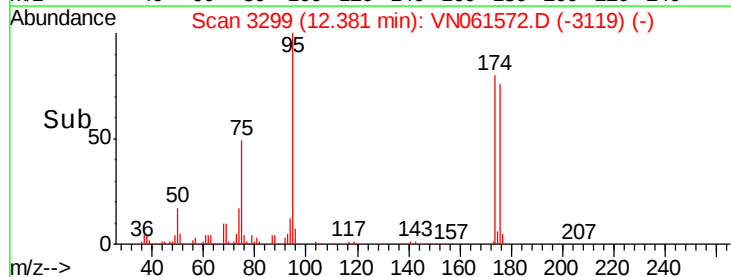
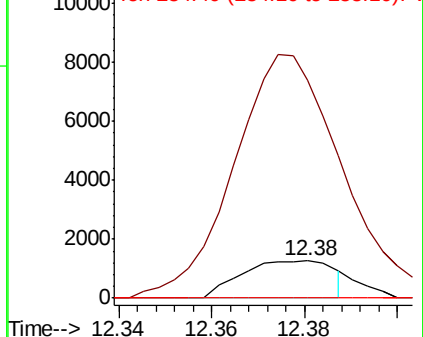


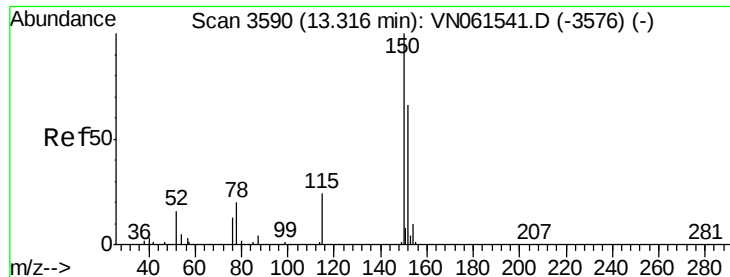
#71
Bromoform
Concen: 0.597 ug/l
RT: 12.38 min Scan# 3299
Delta R.T. 0.28 min
Lab File: VN061572.D
Acq: 29 May 2020 17:09

Tgt Ion:173 Resp: 1767
Ion Ratio Lower Upper
173 100
175 652.7 24.4 73.2#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061572.D

Acq: 29 May 2020 17:09

Instrument :

MSVOA_N

ClientSampleId :

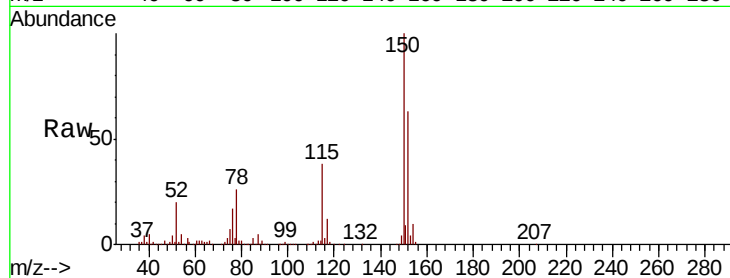
Tot Ion:152 Resp: 223205

Ion Ratio Lower Upper

152 100

115 60.1 28.0 84.0

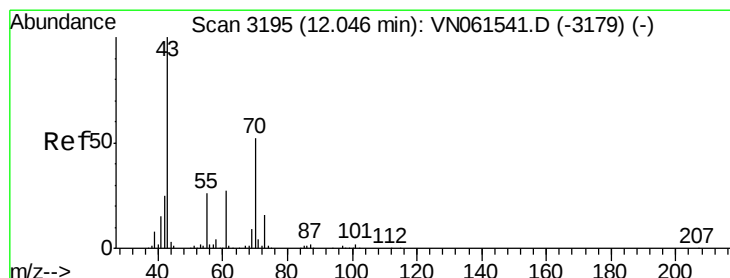
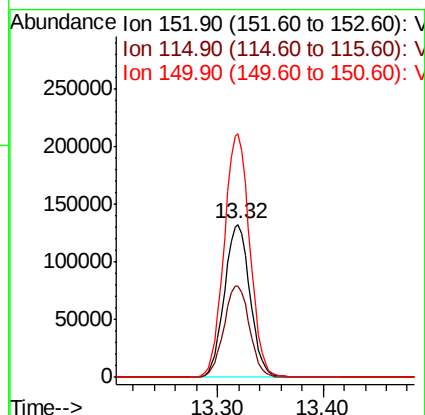
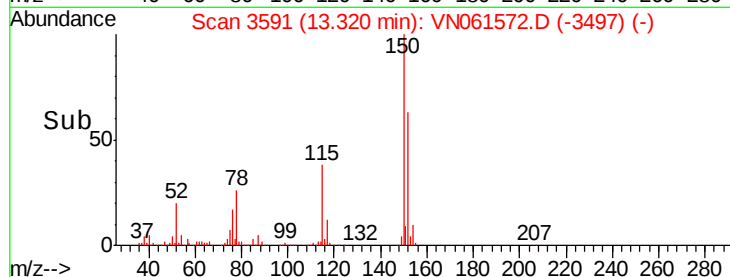
150 159.0 0.0 344.0



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-amil acetate

Concen: 0.685 ug/l

RT: 12.00 min Scan# 3181

Delta R.T. -0.04 min

Lab File: VN061572.D

Acq: 29 May 2020 17:09

Tgt Ion: 43 Resp: 3516

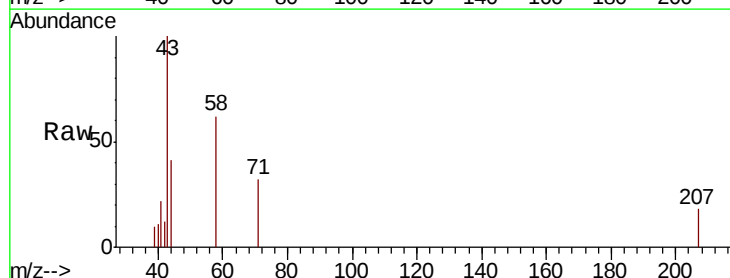
Ion Ratio Lower Upper

43 100

70 0.0 40.5 60.7#

55 0.0 20.6 31.0#

61 0.0 21.8 32.6#

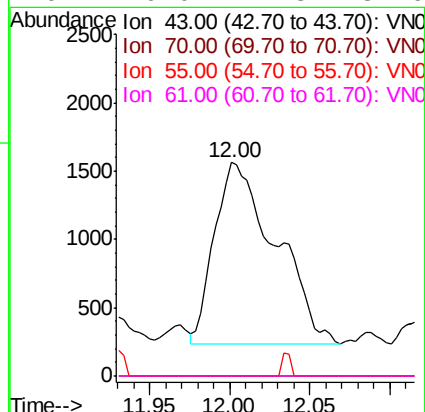
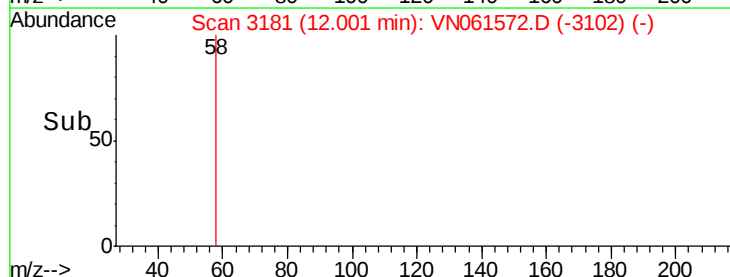


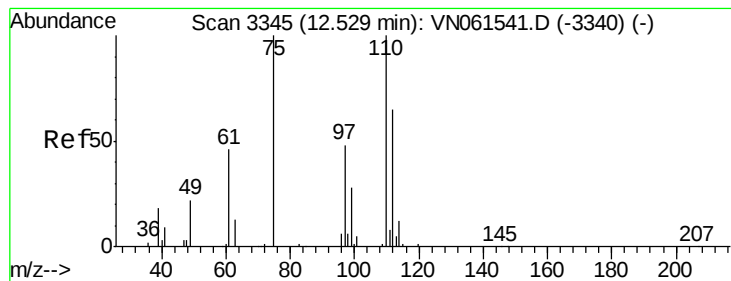
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 28.352 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061572.D

Acq: 29 May 2020 17:09

Instrument :

MSVOA_N

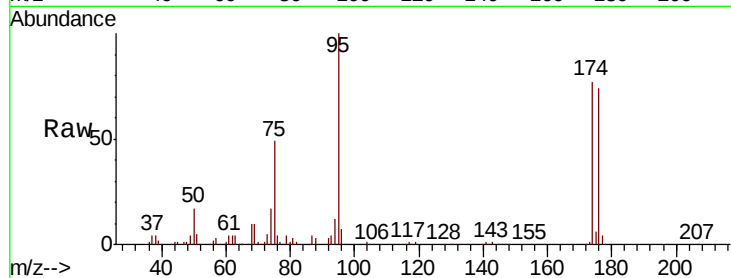
ClientSampleId :

Tot Ion: 75 Resp: 115075

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061541.D (-3340) (-)

Ion 77.00 (76.70 to 77.70): VN061541.D (-3340) (-)

12.38

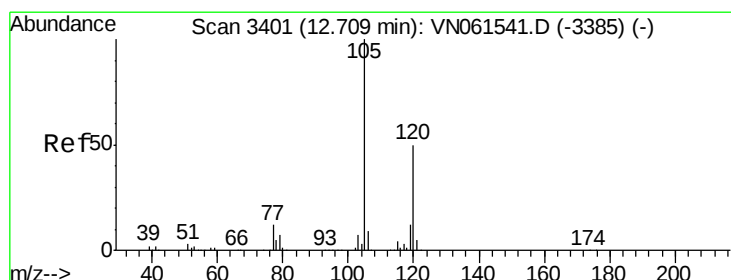
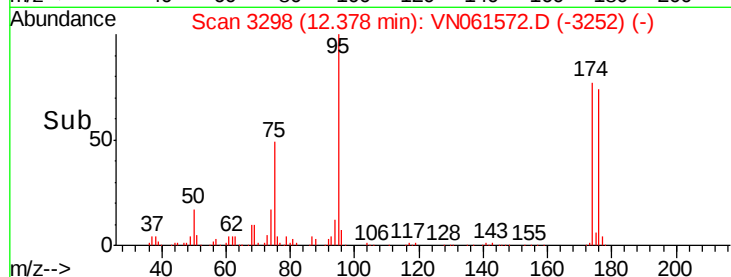
60000

40000

20000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.290 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN061572.D

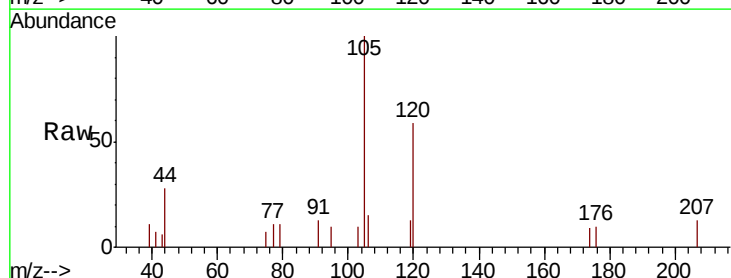
Acq: 29 May 2020 17:09

Tgt Ion: 105 Resp: 3944

Ion Ratio Lower Upper

105 100

120 55.4 25.1 75.2



Abundance Ion 105.00 (104.70 to 105.70): VN061541.D (-3385) (-)

Ion 120.00 (119.70 to 120.70): VN061541.D (-3385) (-)

12.71

3000

2500

2000

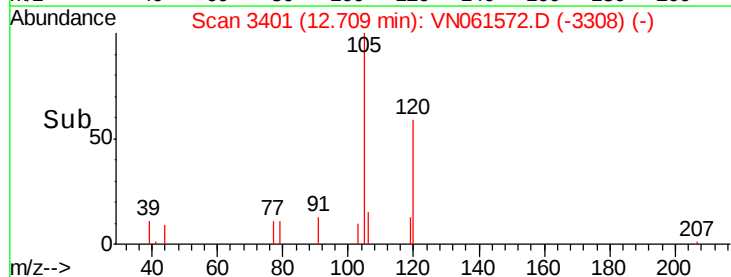
1500

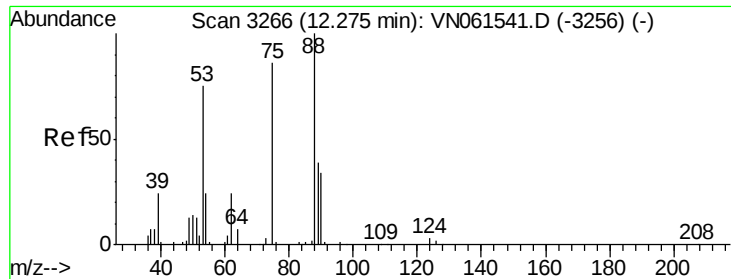
1000

500

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 72.505 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061572.D

Acq: 29 May 2020 17:09

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 115075

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

89 0.0 37.1 55.7#

