

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052120\
 Data File : VN061535.D
 Acq On : 21 May 2020 17:01
 Operator : JC/MD
 Sample : PB129027ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 22 07:18:04 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	270445	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	494953	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	494575	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	215186	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	177455	43.97	ug/l	0.00
Spiked Amount			Recovery	=	87.94%	
35) Dibromofluoromethane	7.55	113	130971	50.51	ug/l	0.00
Spiked Amount			Recovery	=	101.02%	
50) Toluene-d8	10.06	98	621861	51.71	ug/l	0.00
Spiked Amount			Recovery	=	103.42%	
62) 4-Bromofluorobenzene	12.38	95	232641	51.78	ug/l	0.00
Spiked Amount			Recovery	=	103.56%	

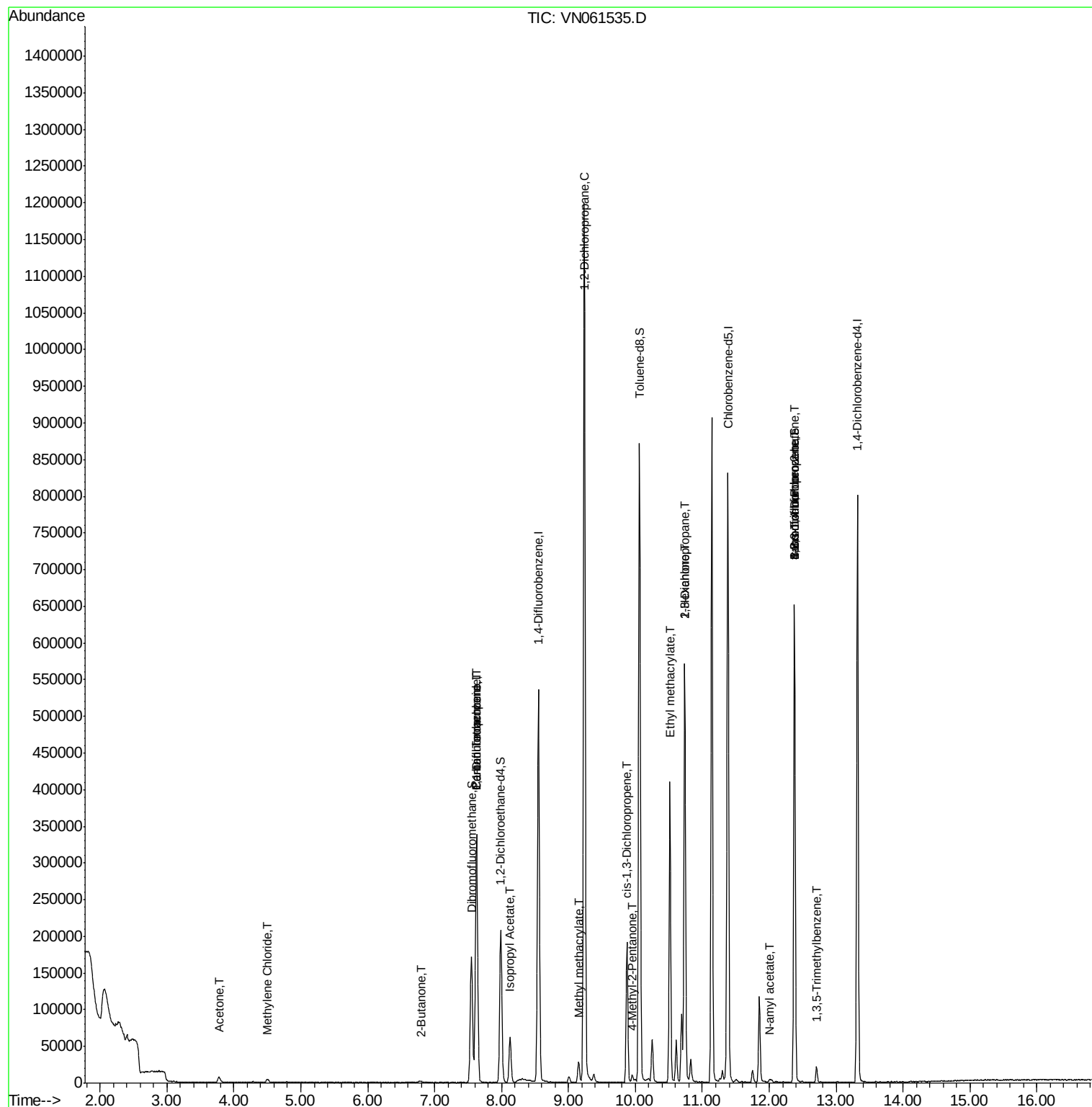
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.53	94	153	Below Cal	#	38
16) Acetone	3.78	43	12628	0.826	ug/l	89
18) Methyl Acetate	4.28	43	1254	Below Cal		98
20) Methylene Chloride	4.49	84	2061	0.621	ug/l #	79
25) 2-Butanone	6.80	43	2003	1.090	ug/l #	88
31) Cyclohexane	7.63	56	5548	Below Cal	#	1
36) 1,1-Dichloropropene	7.63	75	21890	4.730	ug/l #	50
38) Carbon Tetrachloride	7.63	117	28188	6.615	ug/l #	16
43) Isopropyl Acetate	8.13	43	70343	9.609	ug/l #	89
45) 1,2-Dichloropropane	9.23	63	1664	0.477	ug/l #	43
48) Methyl methacrylate	9.15	41	3504	1.036	ug/l #	9
49) 1,4-Dioxane	9.23	88	152	Below Cal	#	1
51) 4-Methyl-2-Pentanone	9.95	43	6330	1.587	ug/l	100
54) cis-1,3-Dichloropropene	9.87	75	37390	6.224	ug/l #	61
56) Ethyl methacrylate	10.51	69	1103	0.208	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	6272	1.072	ug/l #	42
59) 2-Hexanone	10.74	43	73923	25.622	ug/l #	50
71) Bromoform	12.38	173	1754	2.619	ug/l #	1
74) N-amyl acetate	12.00	43	3969	0.628	ug/l #	42
76) 1,2,3-Trichloropropane	12.38	75	115857	25.092	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	12317	0.871	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.38	75	115857	66.562	ug/l #	12

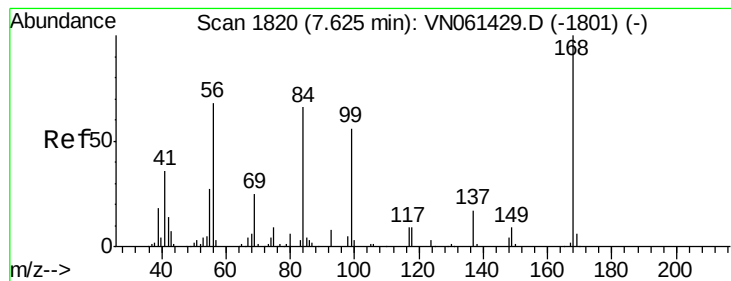
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN061535.D

Acq: 21 May 2020 17:01

Instrument :

MSVOA_N

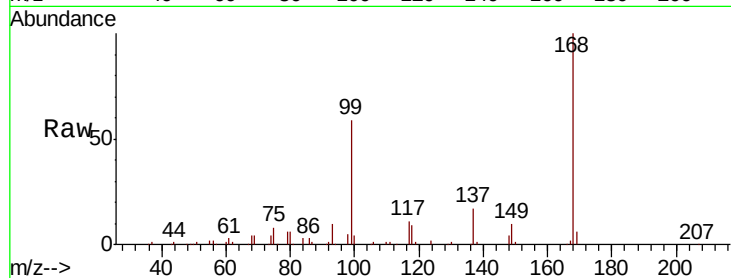
ClientSampled :

Tot Ion:168 Resp: 270445

Ion Ratio Lower Upper

168 100

99 59.4 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

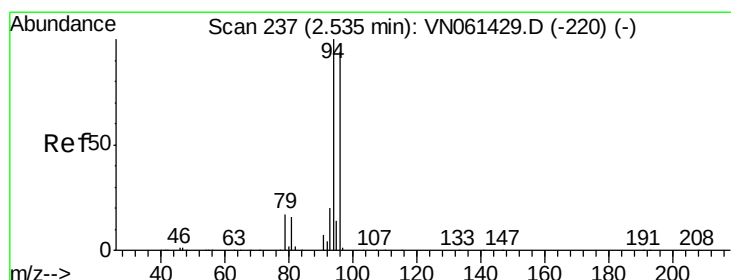
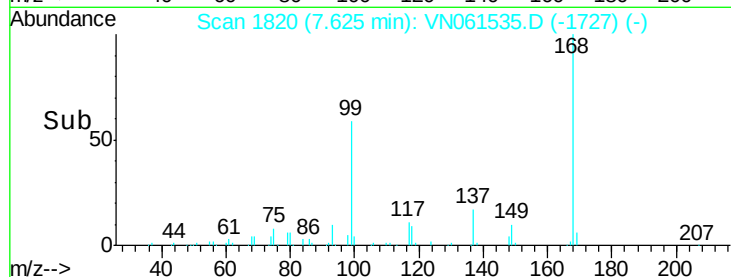
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#5

Bromomethane

Concen: Below Cal

RT: 2.53 min Scan# 235

Delta R.T. -0.01 min

Lab File: VN061535.D

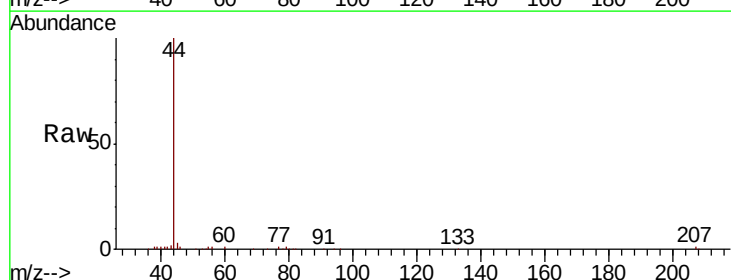
Acq: 21 May 2020 17:01

Tgt Ion: 94 Resp: 153

Ion Ratio Lower Upper

94 100

96 33.6 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.53

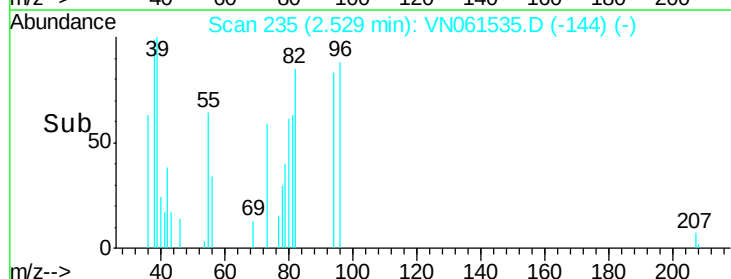
300

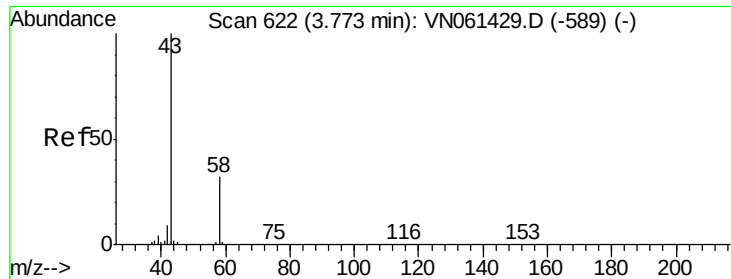
200

100

0

Time--> 2.52 2.53 2.54





#16

Acetone

Concen: 0.826 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN061535.D

Acq: 21 May 2020 17:01

Instrument :

MSVOA_N

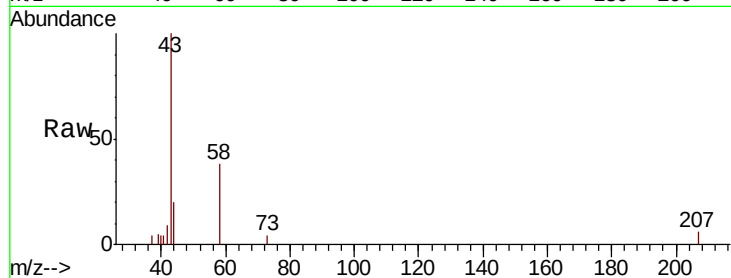
ClientSampleId :

Tot Ion: 43 Resp: 12628

Ion Ratio Lower Upper

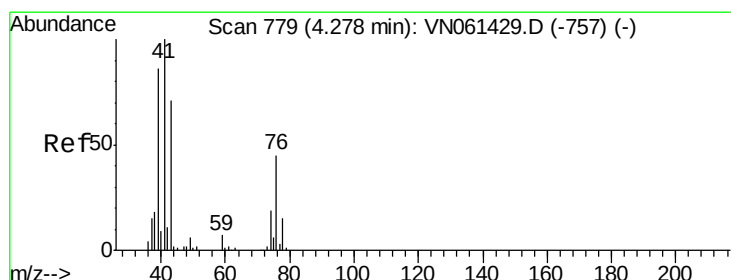
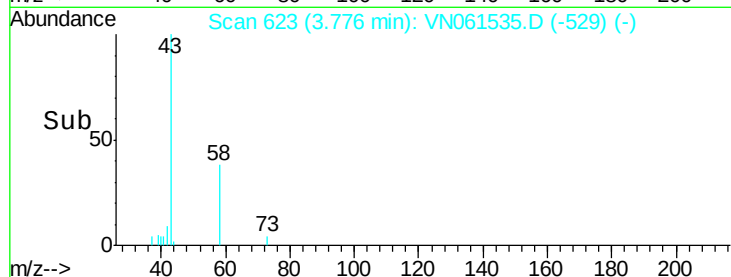
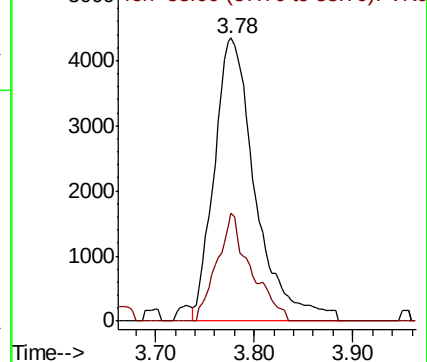
43 100

58 38.2 25.6 38.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.28 min Scan# 780

Delta R.T. 0.00 min

Lab File: VN061535.D

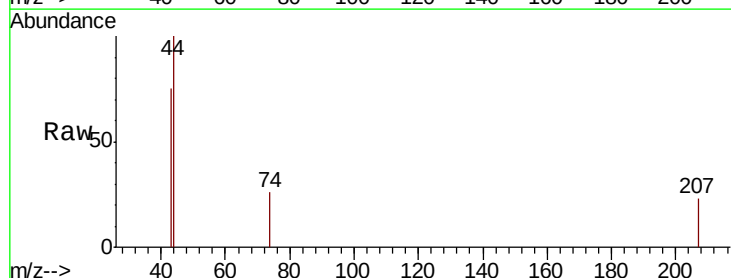
Acq: 21 May 2020 17:01

Tgt Ion: 43 Resp: 1254

Ion Ratio Lower Upper

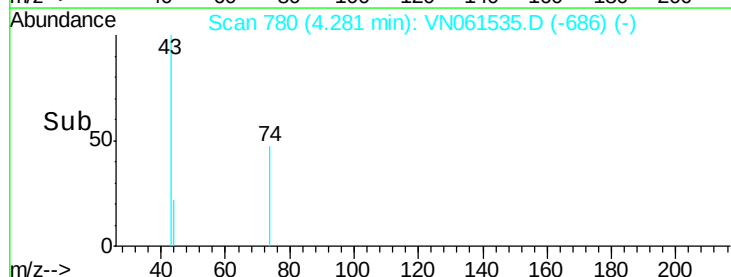
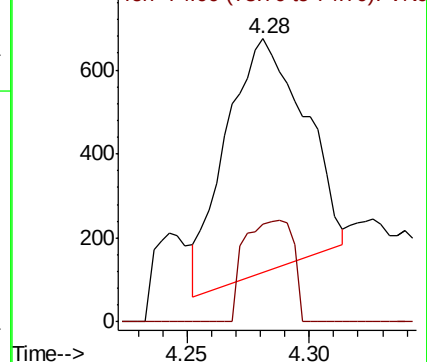
43 100

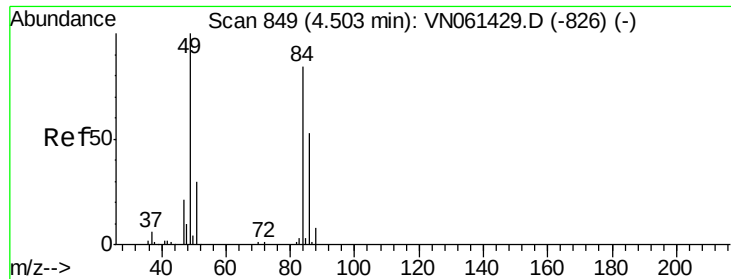
74 26.8 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methylene Chloride

Concen: 0.621 ug/l

RT: 4.49 min Scan# 846

Delta R.T. -0.01 min

Lab File: VN061535.D

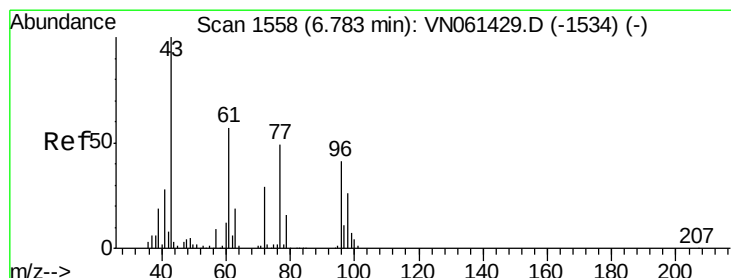
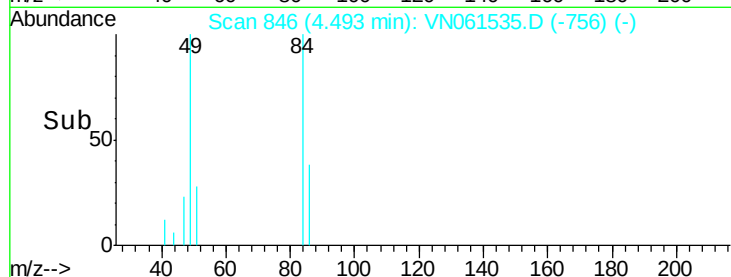
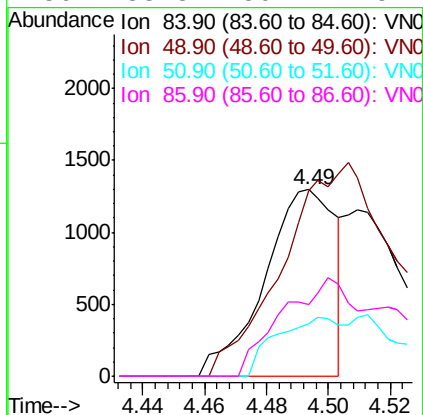
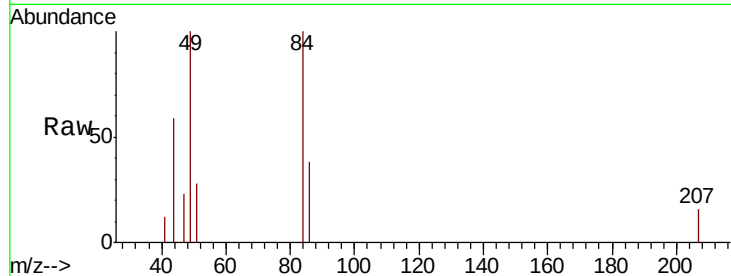
Acq: 21 May 2020 17:01

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:	84	Resp:	2061
Ion	Ratio	Lower	Upper
84	100		
49	99.6	95.3	142.9
51	28.4	29.0	43.6#
86	38.3	50.2	75.2#



#25

2-Butanone

Concen: 1.090 ug/l

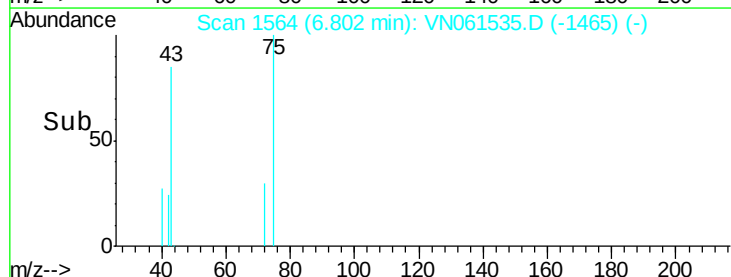
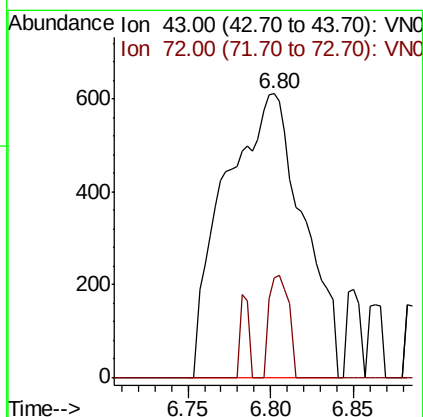
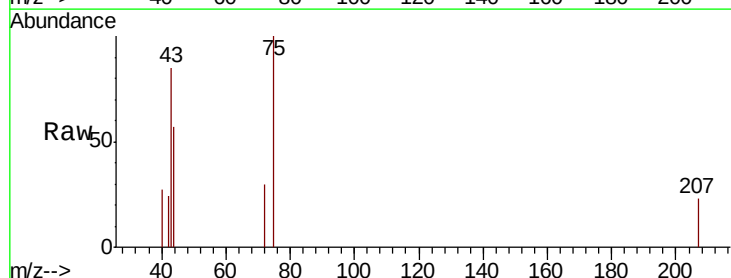
RT: 6.80 min Scan# 1564

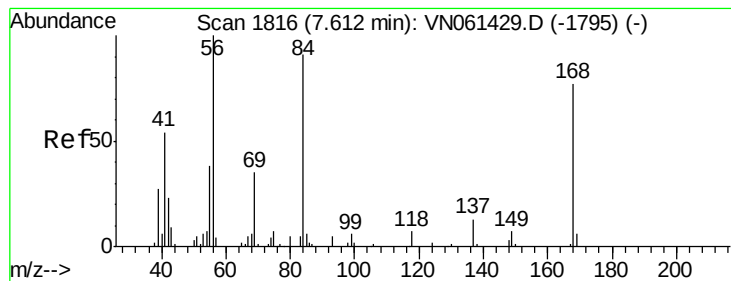
Delta R.T. 0.02 min

Lab File: VN061535.D

Acq: 21 May 2020 17:01

Tgt Ion:	43	Resp:	2003
Ion	Ratio	Lower	Upper
43	100		
72	35.2	23.0	34.6#





#31

Cyclohexane

Concen: Below Cal

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

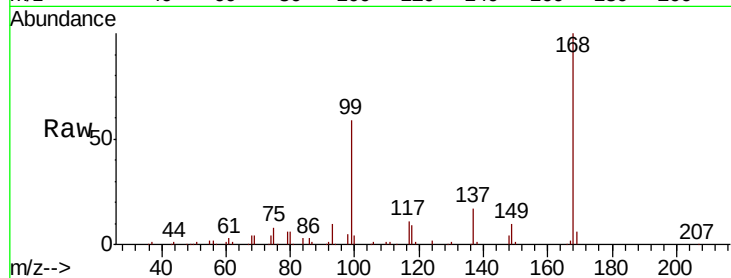
Lab File: VN061535.D

Acq: 21 May 2020 17:01

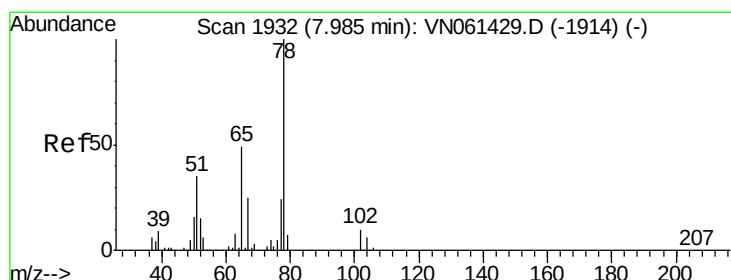
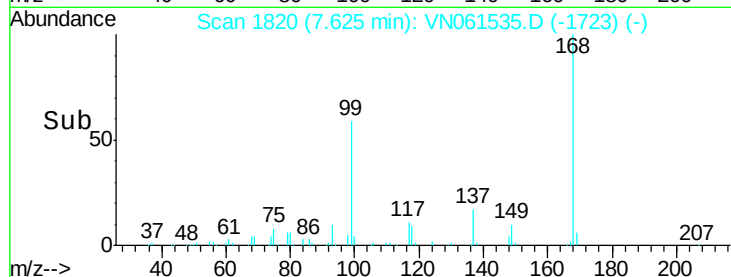
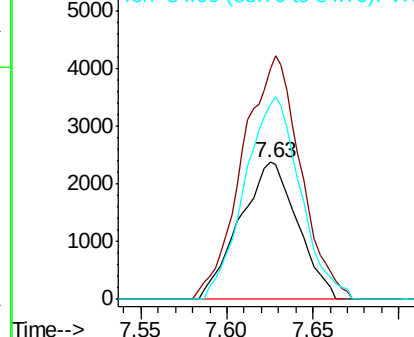
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 5548

Ion	Ratio	Lower	Upper
56	100		
69	169.0	27.8	41.6#
84	142.2	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: 43.965 ug/l

RT: 7.99 min Scan# 1933

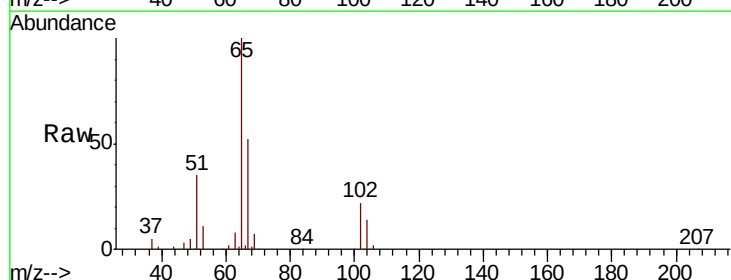
Delta R.T. 0.00 min

Lab File: VN061535.D

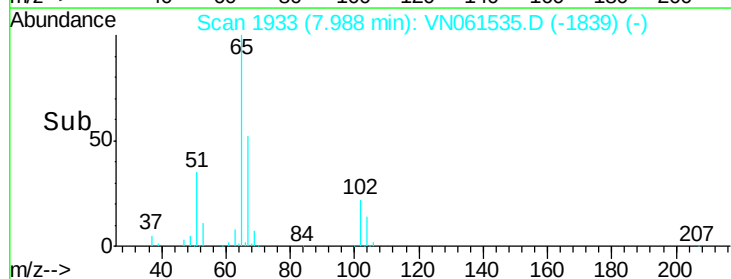
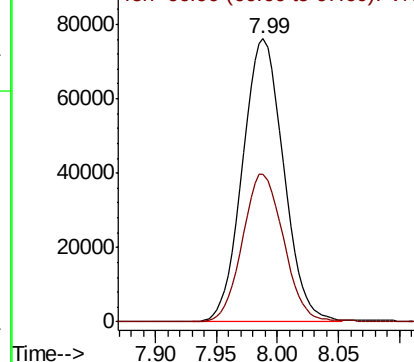
Acq: 21 May 2020 17:01

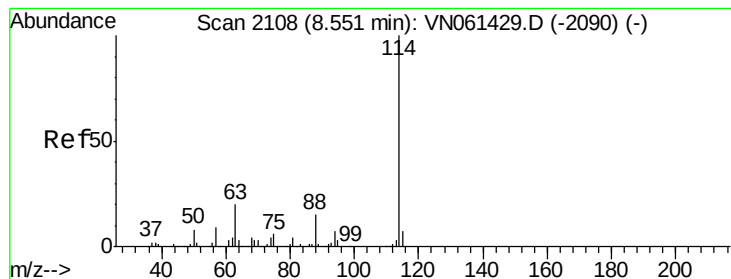
Tgt Ion: 65 Resp: 177455

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	101.4



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN061535.D

Acq: 21 May 2020 17:01

Instrument :

MSVOA_N

ClientSampleId :

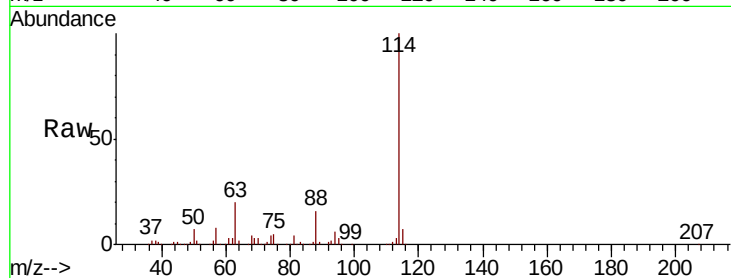
Tot Ion:114 Resp: 494953

Ion Ratio Lower Upper

114 100

63 19.6 0.0 40.8

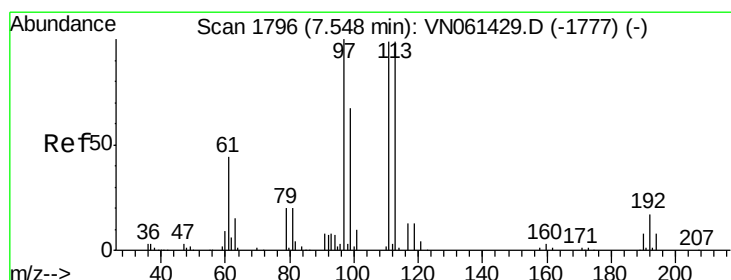
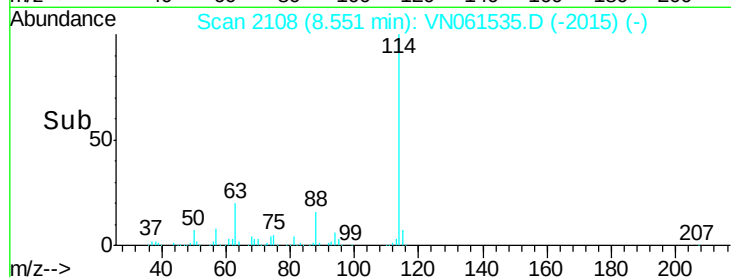
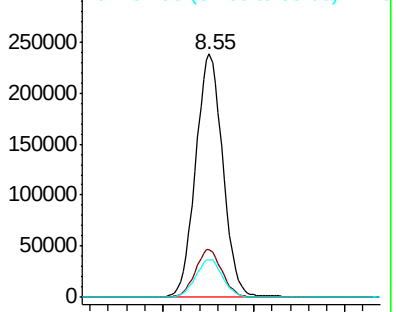
88 15.6 0.0 30.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.511 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VN061535.D

Acq: 21 May 2020 17:01

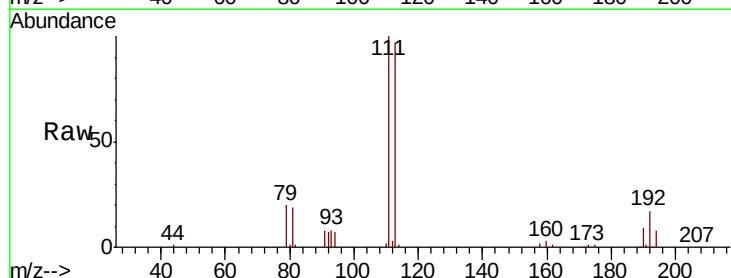
Tgt Ion:113 Resp: 130971

Ion Ratio Lower Upper

113 100

111 102.7 80.6 121.0

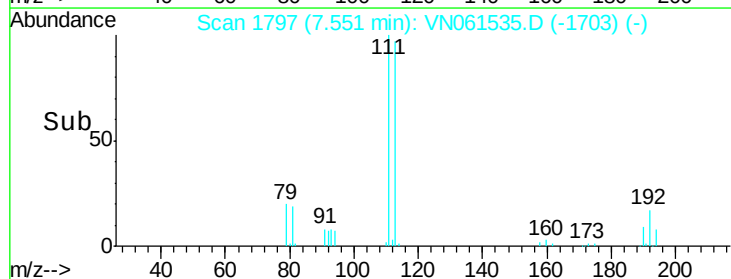
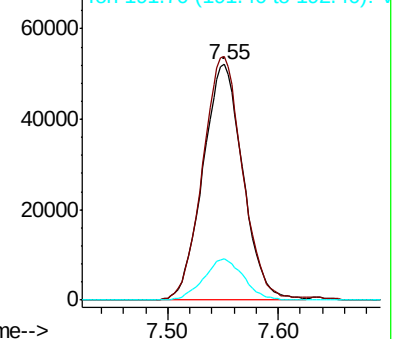
192 17.4 13.2 19.8

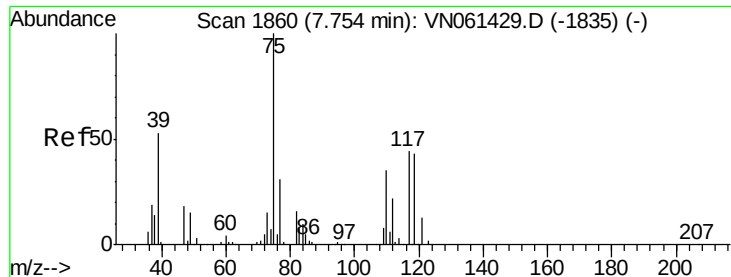


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.730 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN061535.D

Acq: 21 May 2020 17:01

Instrument :

MSVOA_N

ClientSampled :

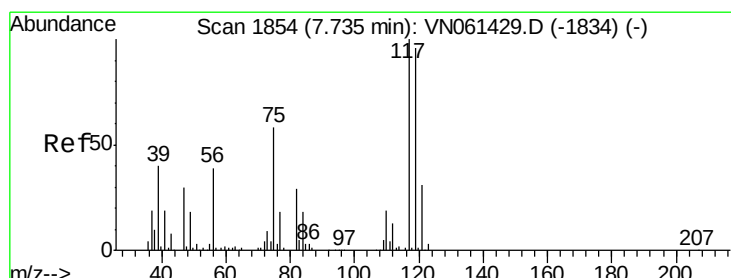
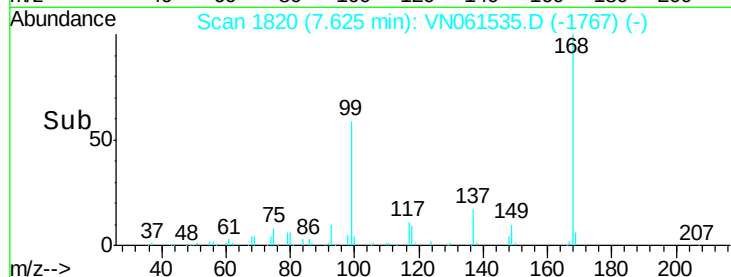
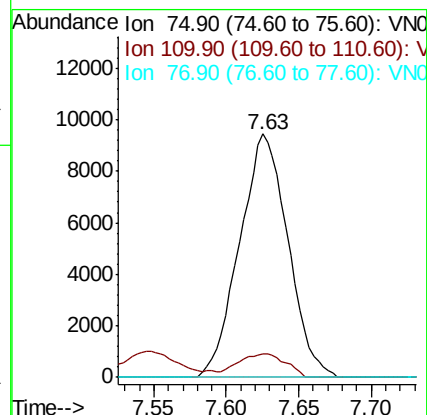
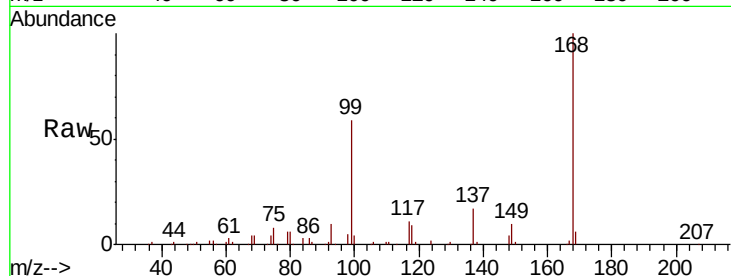
Tot Ion: 75 Resp: 21890

Ion Ratio Lower Upper

75 100

110 9.5 17.3 51.9#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 6.615 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061535.D

Acq: 21 May 2020 17:01

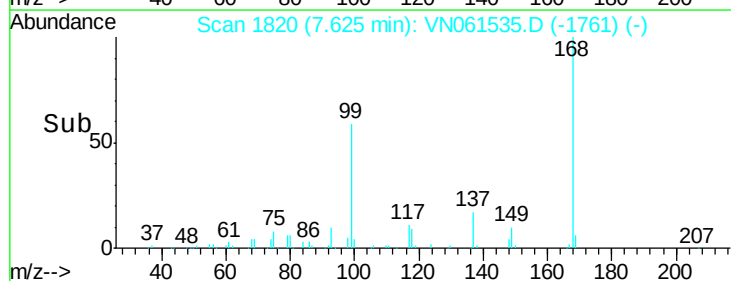
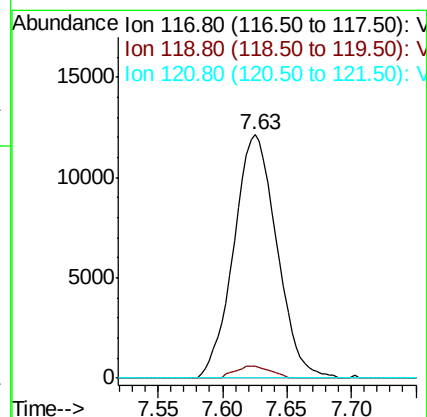
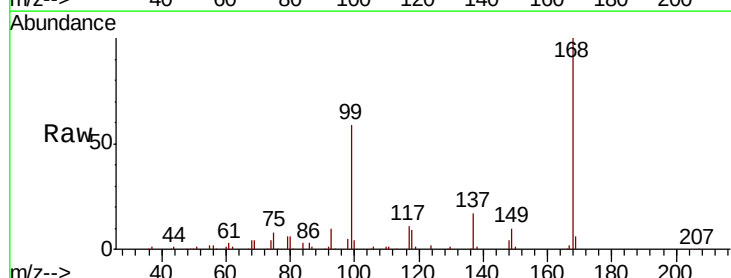
Tgt Ion: 117 Resp: 28188

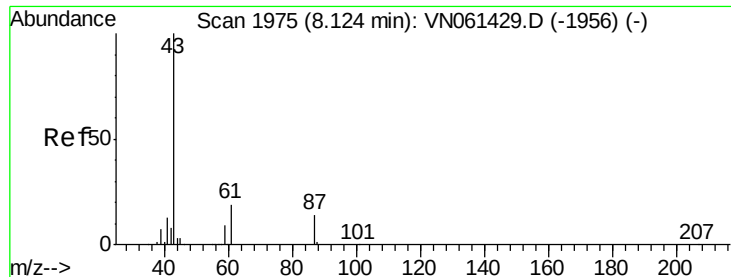
Ion Ratio Lower Upper

117 100

119 4.8 77.0 115.6#

121 0.0 24.7 37.1#





#43

Isopropyl Acetate

Concen: 9.609 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061535.D

Acq: 21 May 2020 17:01

Instrument :

MSVOA_N

ClientSampleId :

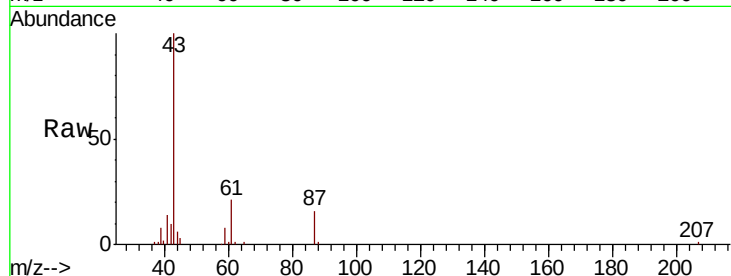
Tot Ion: 43 Resp: 70343

Ion Ratio Lower Upper

43 100

61 21.0 23.0 34.4#

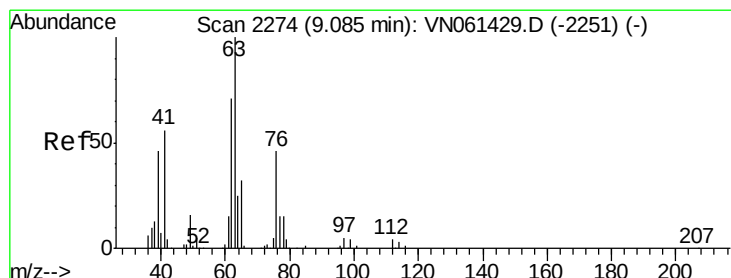
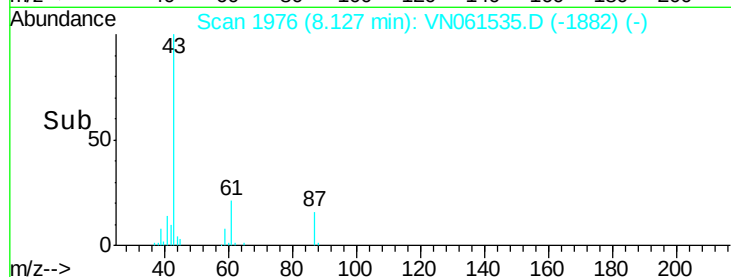
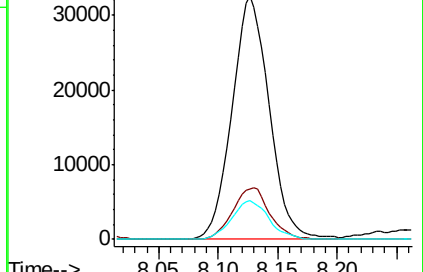
87 15.8 11.6 17.4



Abundance Ion 43.00 (42.70 to 43.70): VN061429.D (-1956) (-)

Ion 61.00 (60.70 to 61.70): VN061429.D (-1956) (-)

Ion 87.00 (86.70 to 87.70): VN061429.D (-1956) (-)



#45

1,2-Dichloropropane

Concen: 0.477 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN061535.D

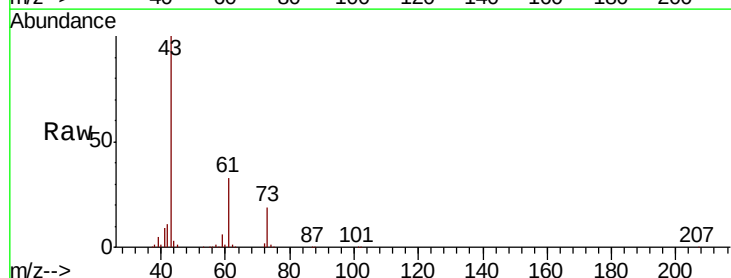
Acq: 21 May 2020 17:01

Tgt Ion: 63 Resp: 1664

Ion Ratio Lower Upper

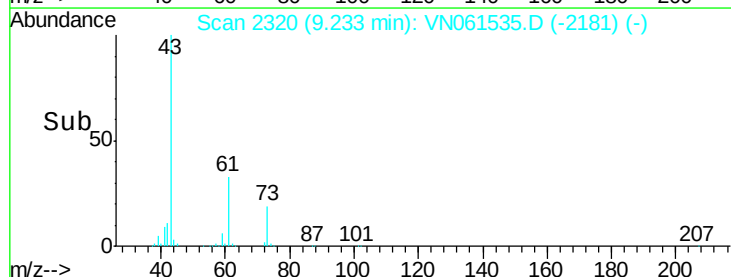
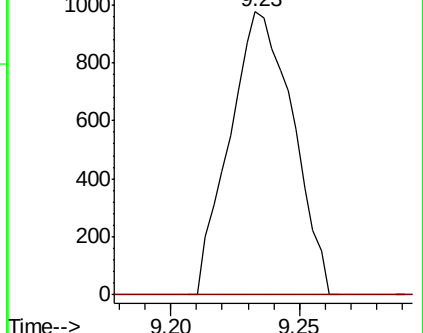
63 100

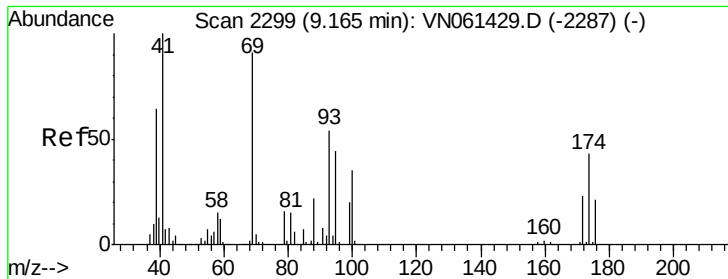
65 0.0 25.2 37.8#



Abundance Ion 62.90 (62.60 to 63.60): VN061535.D (-2181) (-)

Ion 64.90 (64.60 to 65.60): VN061535.D (-2181) (-)

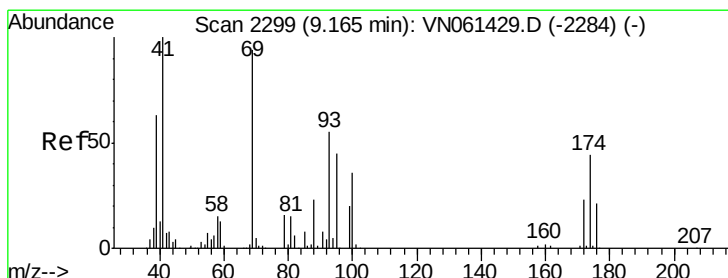
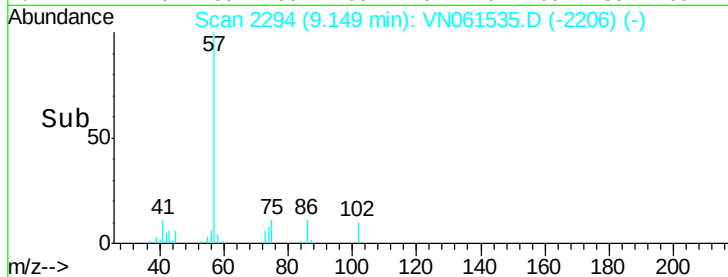
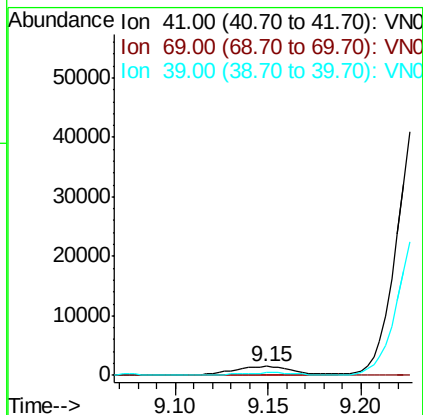
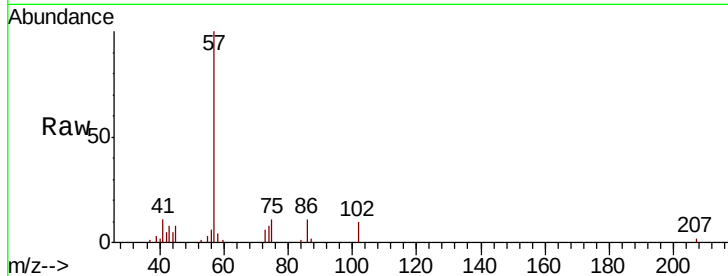




#48
Methvl methacrylate
Concen: 1.036 ug/l
RT: 9.15 min Scan# 2294
Delta R.T. -0.02 min
Lab File: VN061535.D
Acq: 21 May 2020 17:01

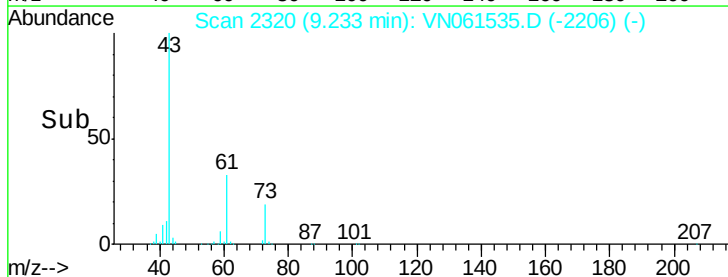
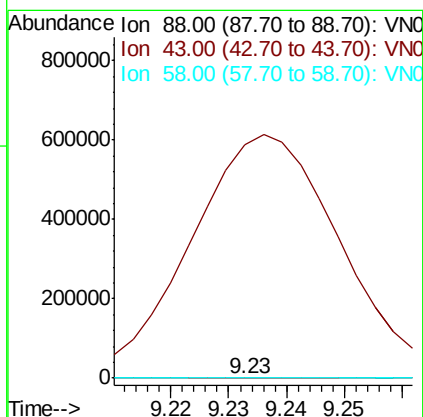
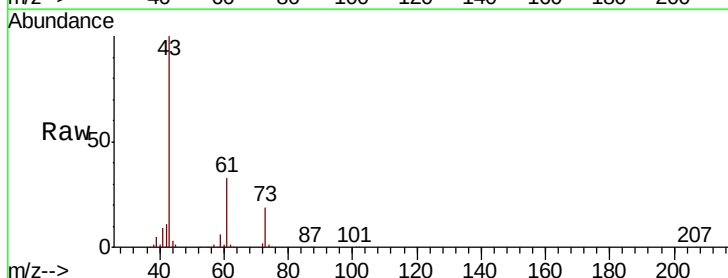
Instrument :
MSVOA_N
ClientSampleId :

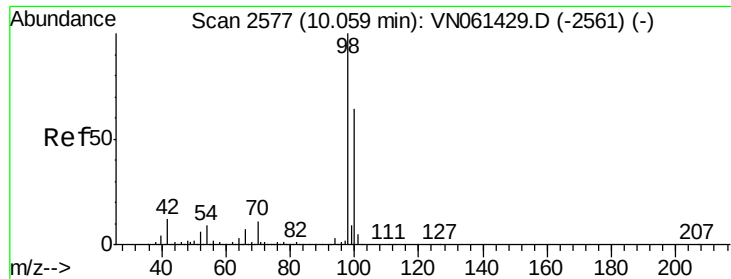
Tot Ion: 41 Resp: 3504
Ion Ratio Lower Upper
41 100
69 0.0 75.3 112.9#
39 0.0 52.6 79.0#



#49
1,4-Dioxane
Concen: Below Cal
RT: 9.23 min Scan# 2320
Delta R.T. 0.07 min
Lab File: VN061535.D
Acq: 21 May 2020 17:01

Tgt Ion: 88 Resp: 152
Ion Ratio Lower Upper
88 100
43 743050.0 26.3 39.5#
58 3471.7 54.1 81.1#

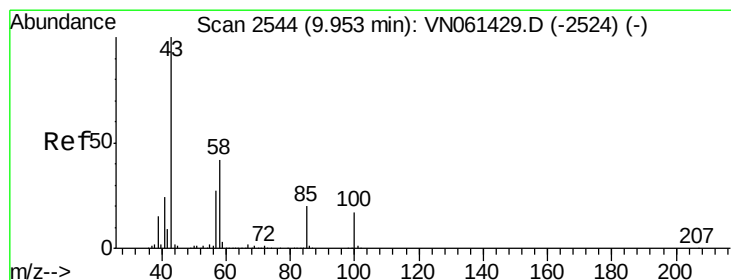
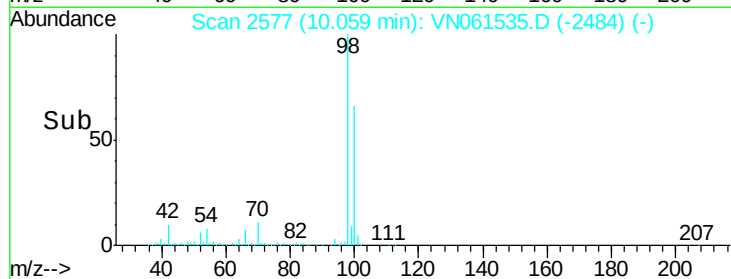
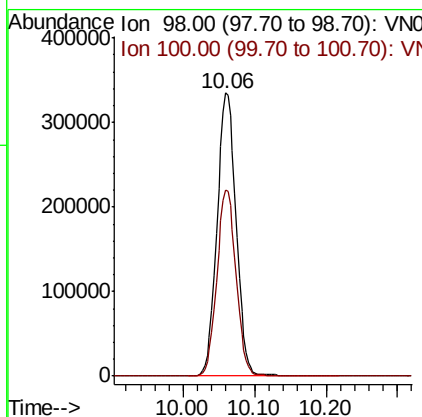
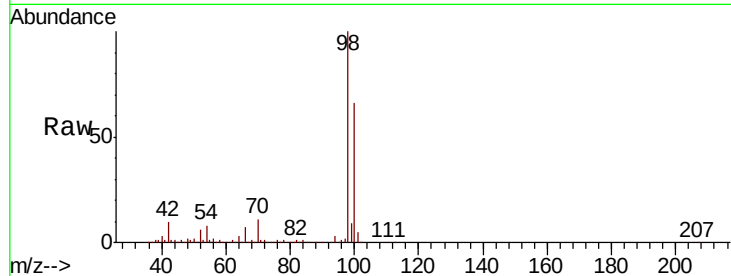




#50
Toluene-d8
Concen: 51.707 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN061535.D
Acq: 21 May 2020 17:01

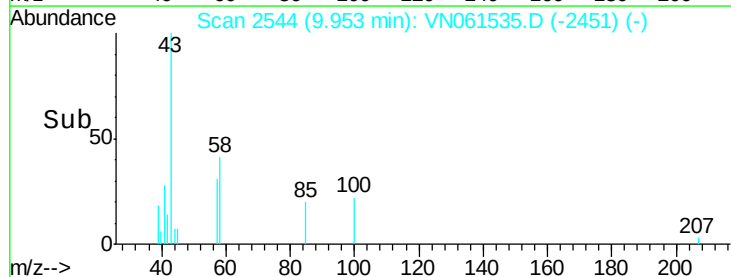
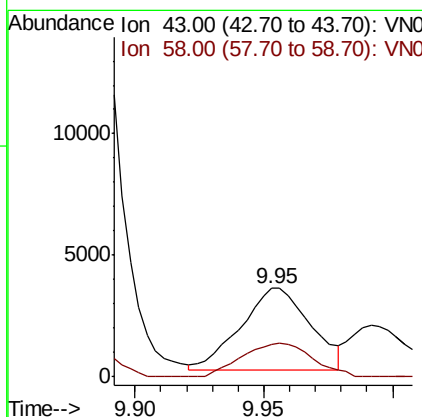
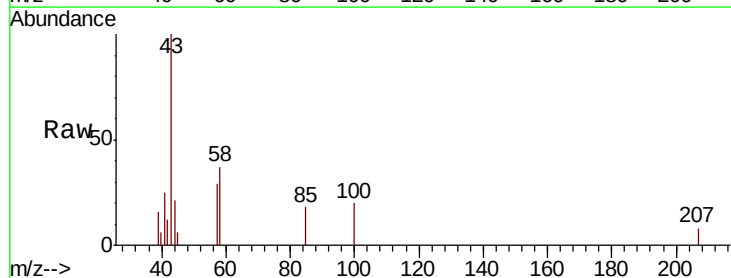
Instrument :
MSVOA_N
ClientSampleId :

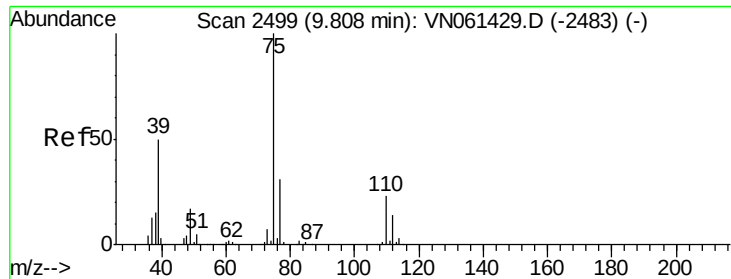
Tot Ion: 98 Resp: 621861
Ion Ratio Lower Upper
98 100
100 65.7 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 1.587 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. -0.00 min
Lab File: VN061535.D
Acq: 21 May 2020 17:01

Tgt Ion: 43 Resp: 6330
Ion Ratio Lower Upper
43 100
58 41.9 33.4 50.2





#54

cis-1,3-Dichloropropene

Concen: 6.224 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN061535.D

Acq: 21 May 2020 17:01

Instrument :

MSVOA_N

ClientSampleId :

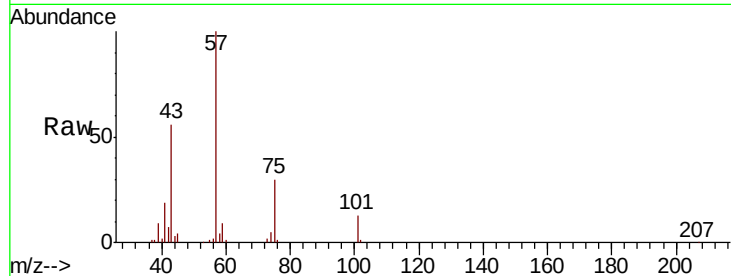
Tot Ion: 75 Resp: 37390

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

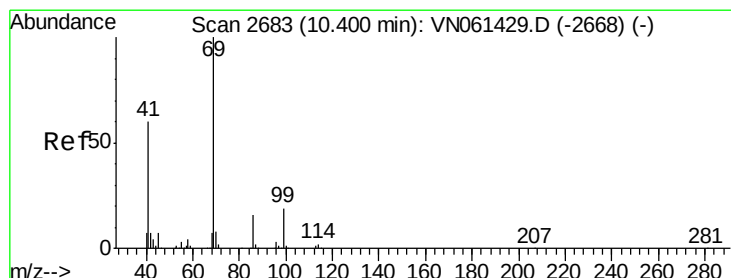
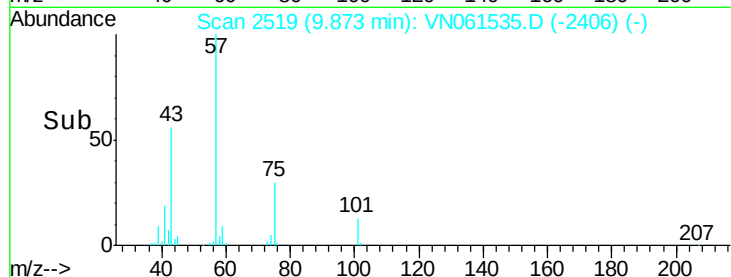
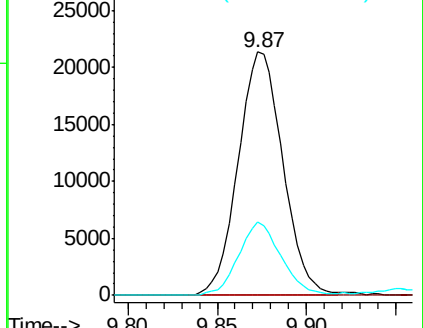
39 29.9 39.8 59.6#



Abundance Ion 74.90 (74.60 to 75.60): VN061535.D (-2519) (-)

Ion 76.90 (76.60 to 77.60): VN061535.D (-2519) (-)

Ion 39.00 (38.70 to 39.70): VN061535.D (-2519) (-)



#56

Ethyl methacrylate

Concen: 0.208 ug/l

RT: 10.51 min Scan# 2718

Delta R.T. 0.11 min

Lab File: VN061535.D

Acq: 21 May 2020 17:01

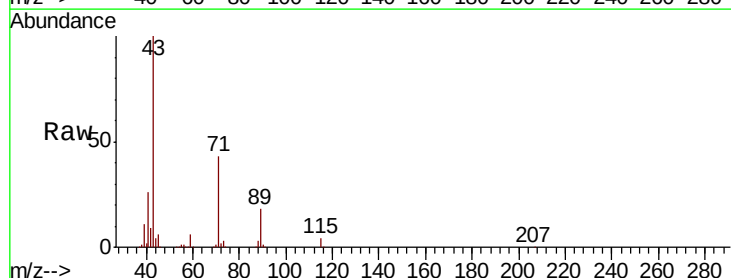
Tgt Ion: 69 Resp: 1103

Ion Ratio Lower Upper

69 100

41 6591.2 48.3 72.5#

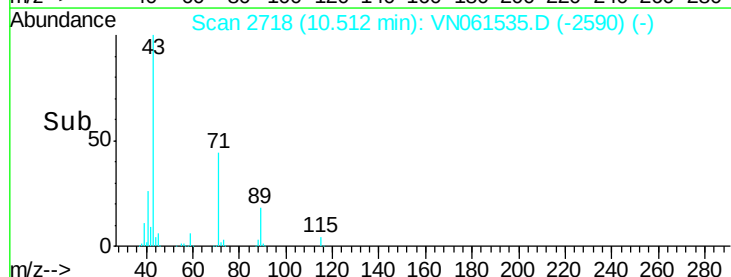
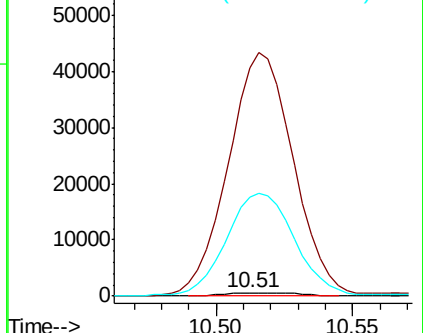
39 2921.2 30.2 45.2#

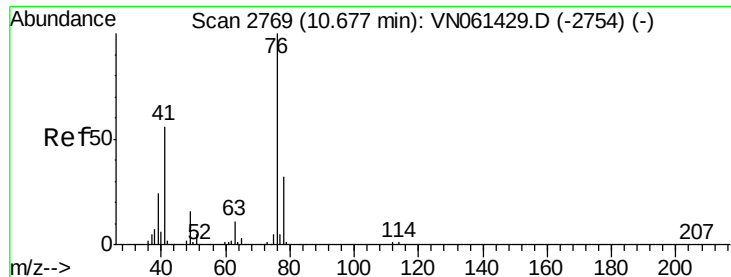


Abundance Ion 69.00 (68.70 to 69.70): VN061535.D (-2718) (-)

Ion 41.00 (40.70 to 41.70): VN061535.D (-2718) (-)

Ion 39.00 (38.70 to 39.70): VN061535.D (-2718) (-)





#57

1,3-Dichloropropane

Concen: 1.072 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.06 min

Lab File: VN061535.D

Acq: 21 May 2020 17:01

Instrument :

MSVOA_N

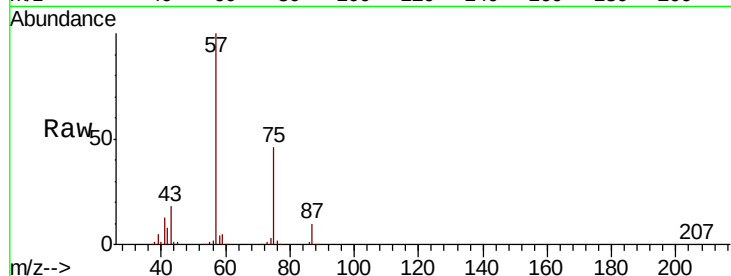
ClientSampled :

Tot Ion: 76 Resp: 6272

Ion Ratio Lower Upper

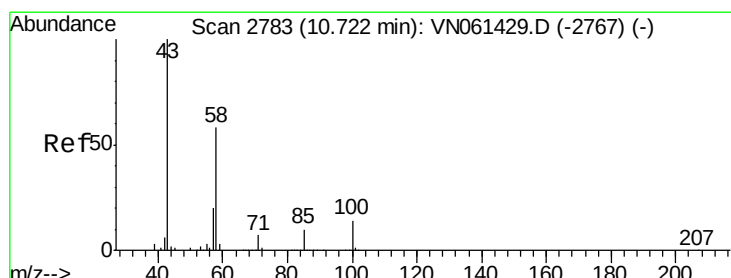
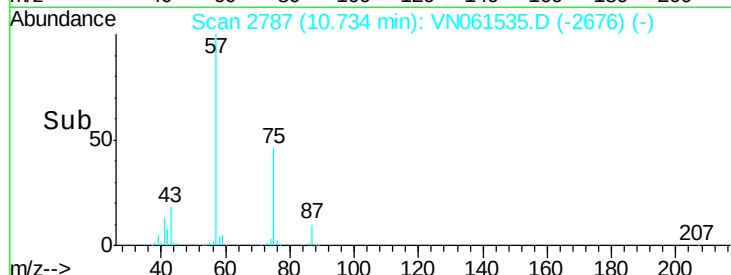
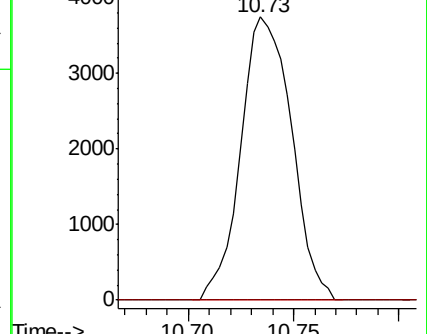
76 100

78 0.0 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 25.622 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN061535.D

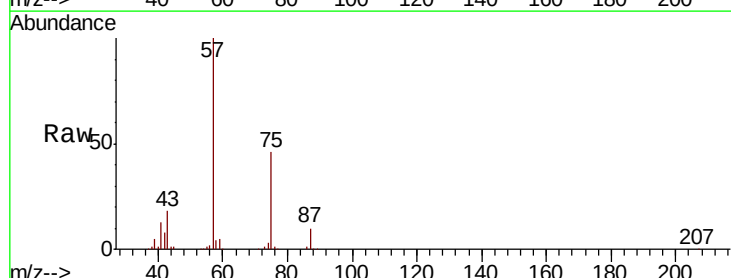
Acq: 21 May 2020 17:01

Tgt Ion: 43 Resp: 73923

Ion Ratio Lower Upper

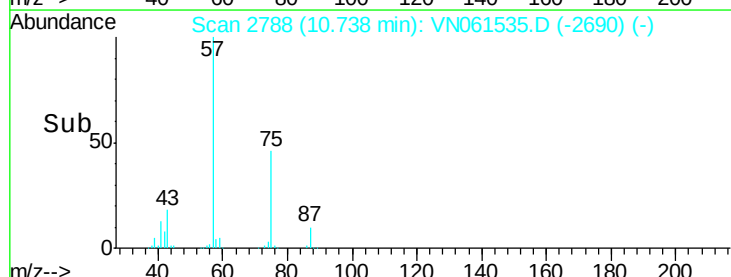
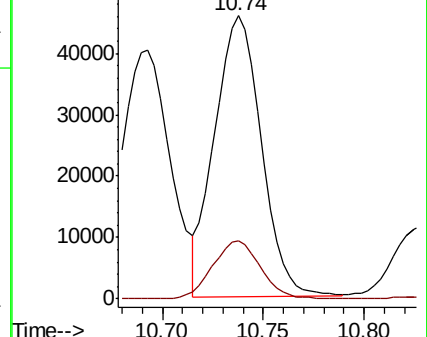
43 100

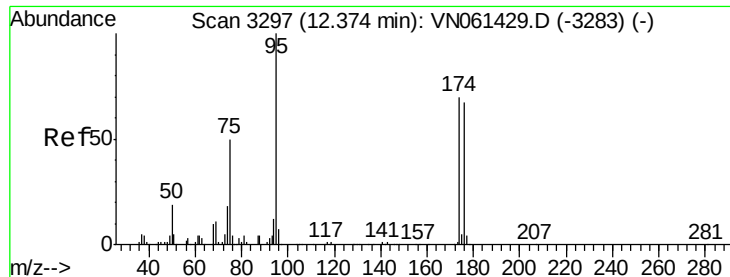
58 21.1 29.2 87.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

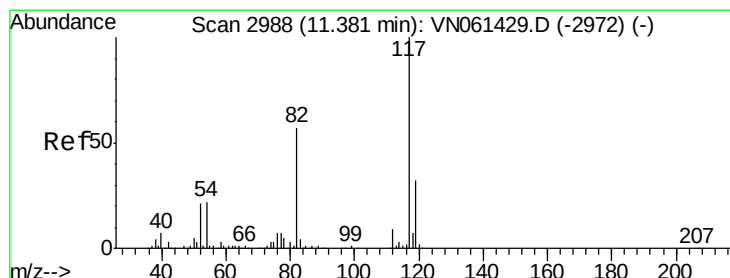
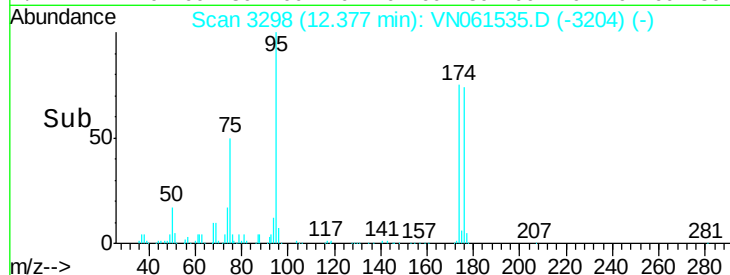
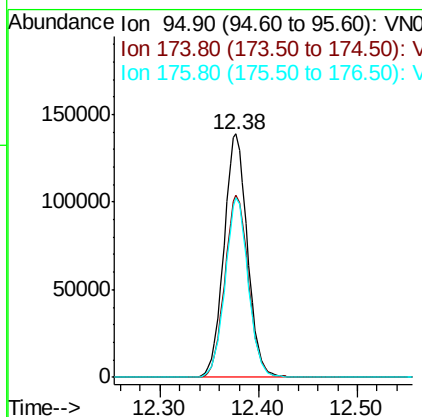
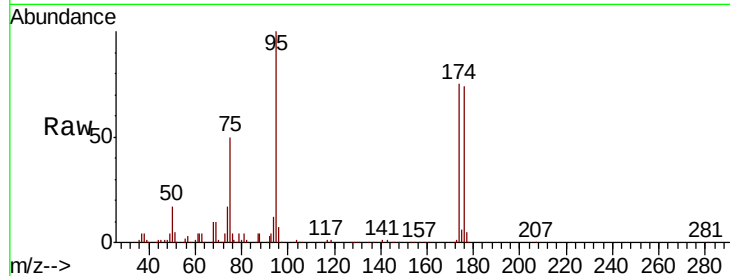




#62
4-Bromofluorobenzene
Concen: 51.776 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061535.D
Acq: 21 May 2020 17:01

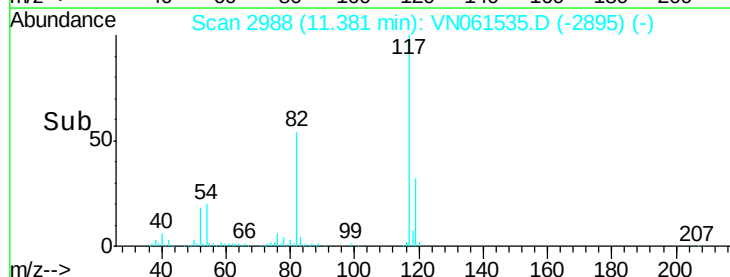
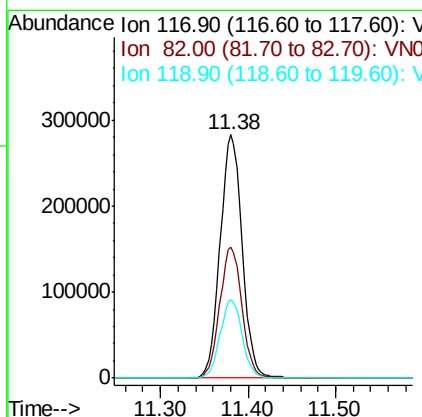
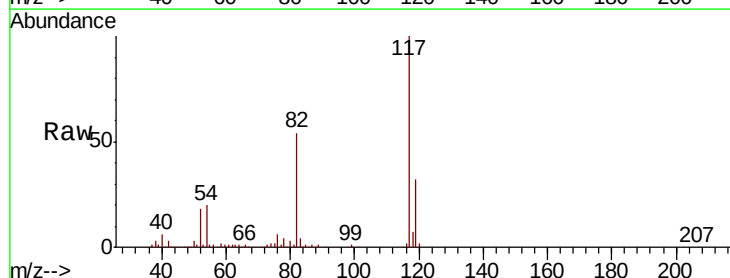
Instrument :
MSVOA_N
ClientSampled :

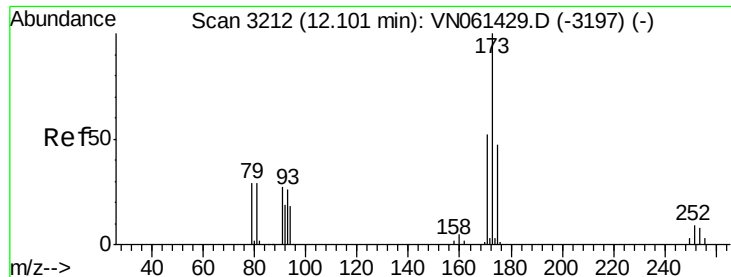
Tot Ion	95	Resp	232641
Ion Ratio	Lower	Upper	
95	100		
174	75.2	0.0	141.2
176	72.4	0.0	137.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061535.D
Acq: 21 May 2020 17:01

Tgt Ion	117	Resp	494575
Ion Ratio	Lower	Upper	
117	100		
82	54.0	45.2	67.8
119	32.4	25.3	37.9





#71

Bromoform

Concen: 2.619 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.28 min

Lab File: VN061535.D

Acq: 21 May 2020 17:01

Instrument :

MSVOA_N

ClientSampled :

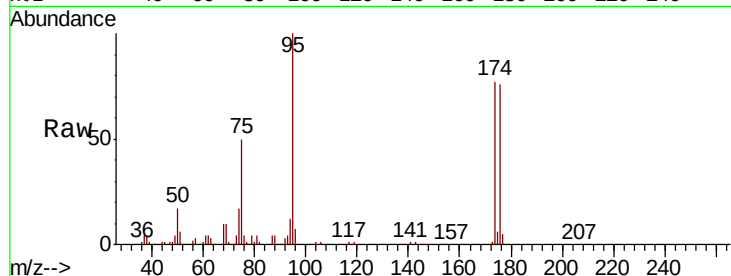
Tot Ion:173 Resp: 1754

Ion Ratio Lower Upper

173 100

175 623.5 23.9 71.8#

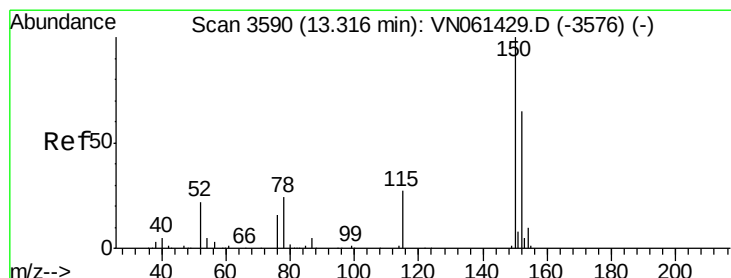
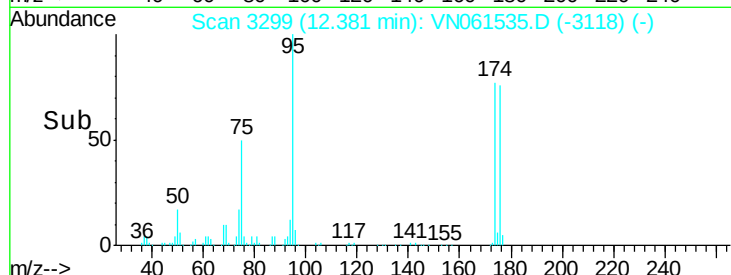
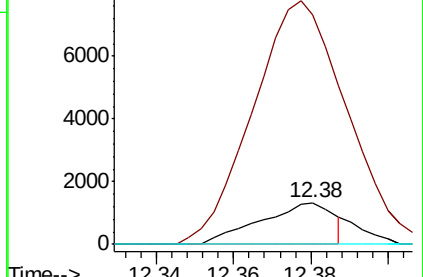
254 0.0 0.0 0.0



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: VN061535.D

Acq: 21 May 2020 17:01

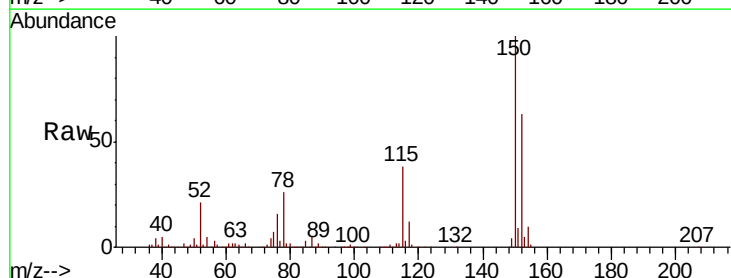
Tgt Ion:152 Resp: 215186

Ion Ratio Lower Upper

152 100

115 60.4 30.9 92.5

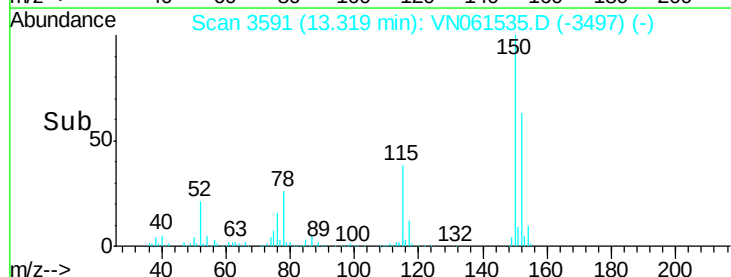
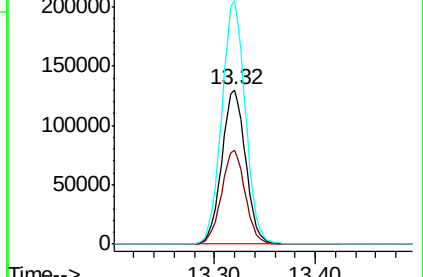
150 156.5 0.0 349.2

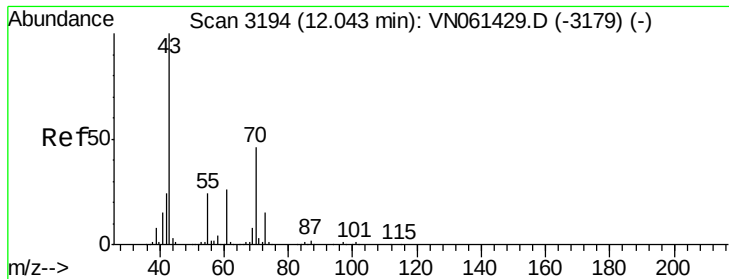


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

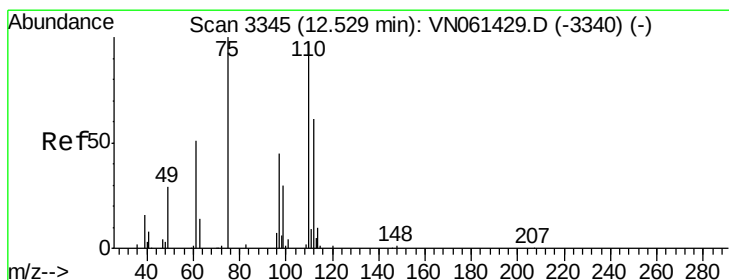
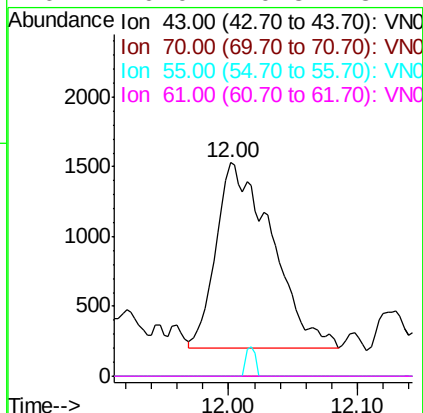
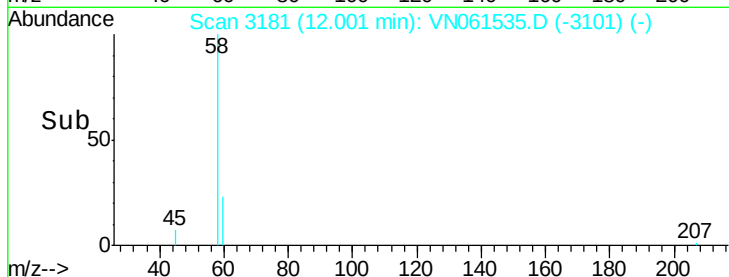
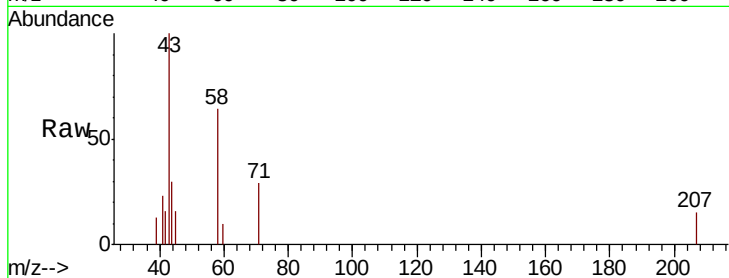




#74
N-amvl acetate
Concen: 0.628 ug/l
RT: 12.00 min Scan# 3181
Delta R.T. -0.04 min
Lab File: VN061535.D
Acq: 21 May 2020 17:01

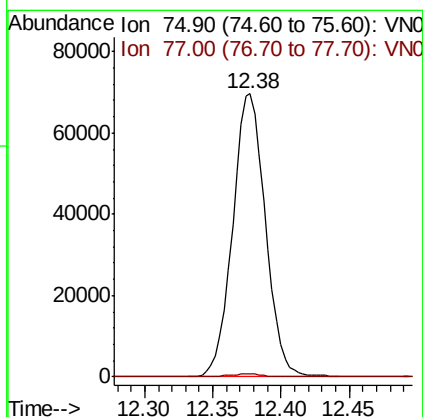
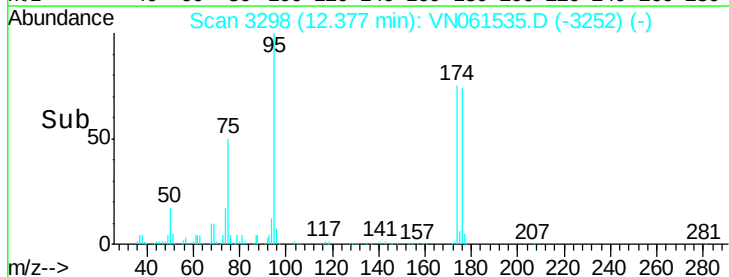
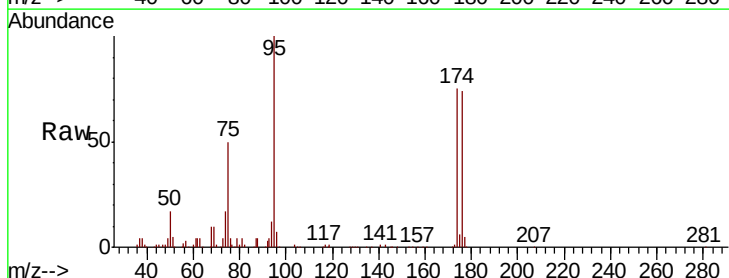
Instrument :
MSVOA_N
ClientSampleId :

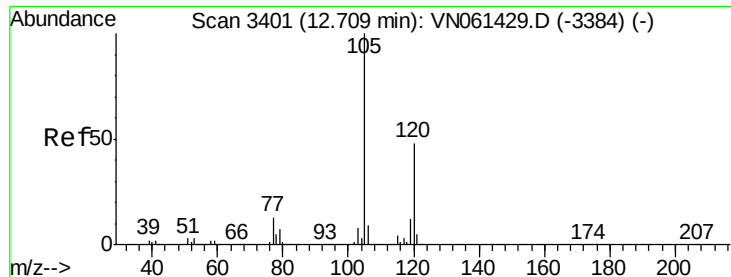
Tot Ion: 43 Resp: 3969
Ion Ratio Lower Upper
43 100
70 0.0 37.0 55.4#
55 2.8 19.5 29.3#
61 0.0 20.8 31.2#



#76
1,2,3-Trichloropropane
Concen: 25.092 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.15 min
Lab File: VN061535.D
Acq: 21 May 2020 17:01

Tgt Ion: 75 Resp: 115857
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.871 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN061535.D

Acq: 21 May 2020 17:01

Instrument :

MSVOA_N

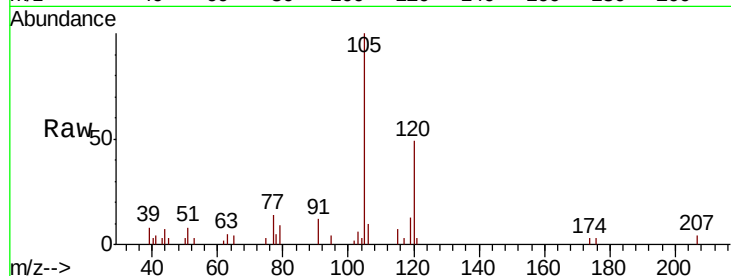
ClientSampleId :

Tot Ion:105 Resp: 12317

Ion Ratio Lower Upper

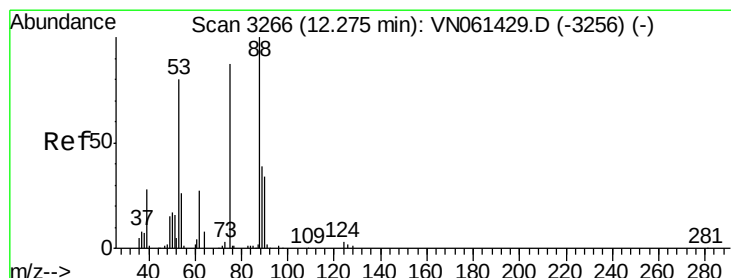
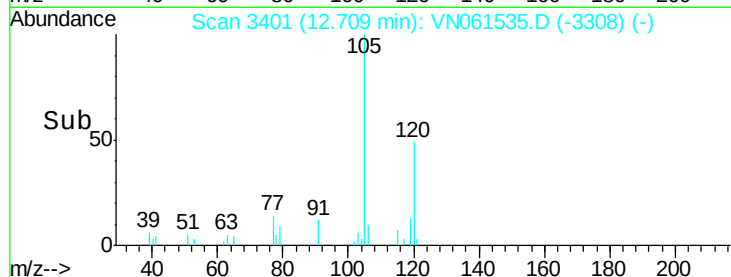
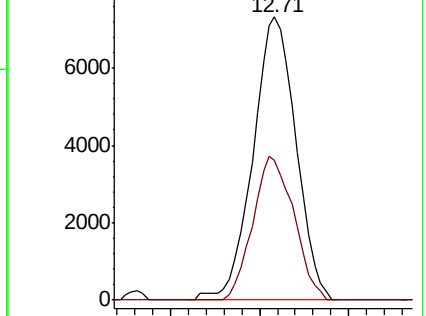
105 100

120 48.3 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: 66.562 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061535.D

Acq: 21 May 2020 17:01

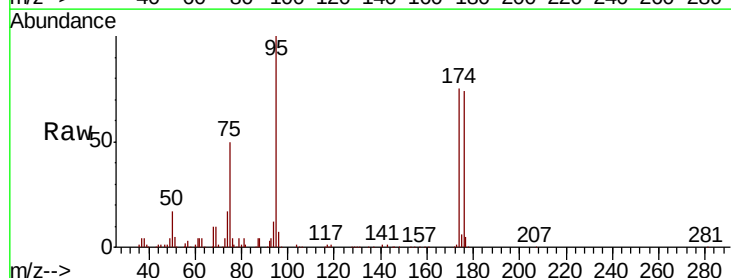
Tgt Ion: 75 Resp: 115857

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): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

