

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061820\
 Data File : VN061936.D
 Acq On : 19 Jun 2020 6:54
 Operator : JC/MD
 Sample : L3024-20
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-17

Quant Time: Jun 19 07:36:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

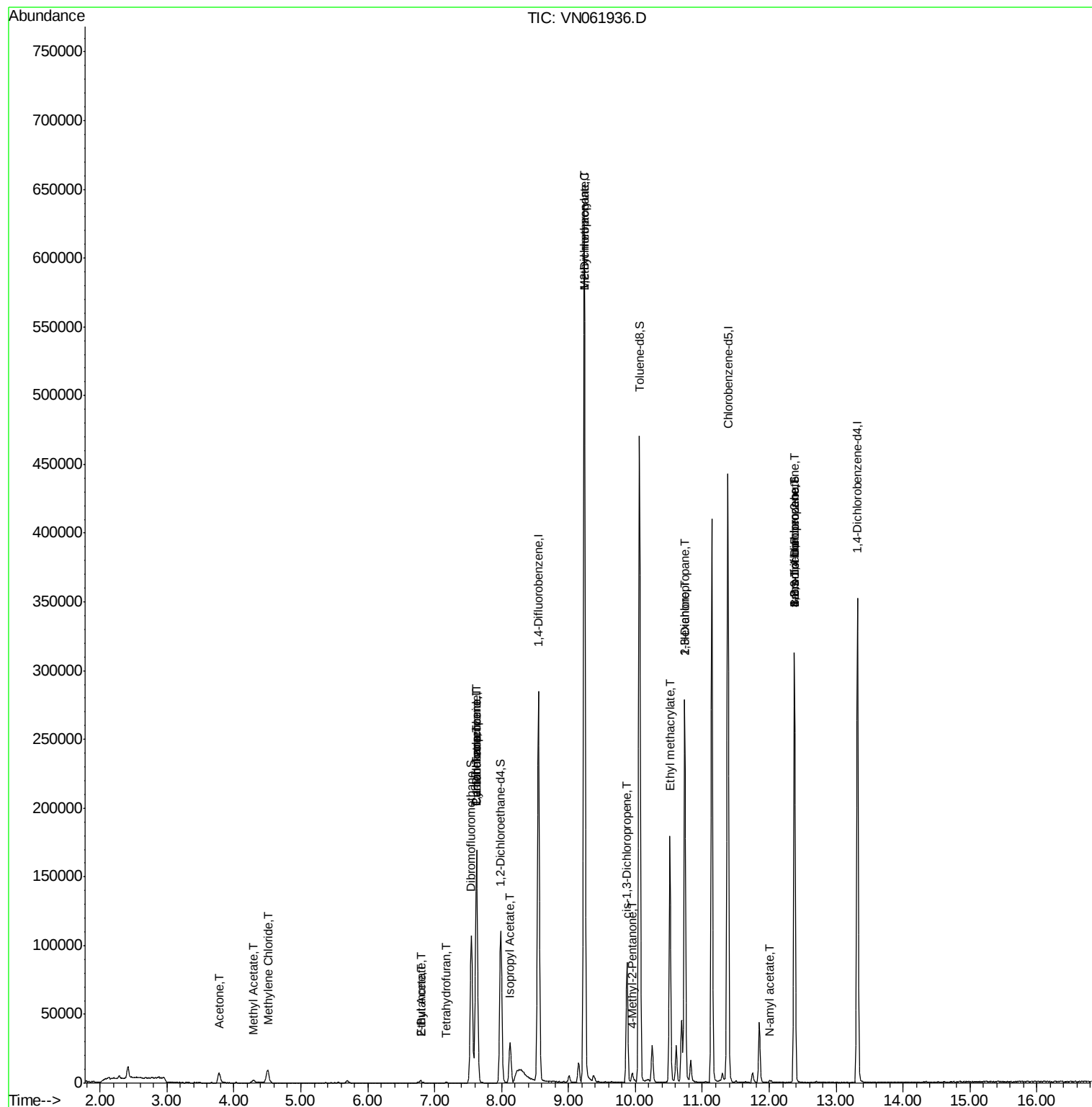
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	136656	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	263302	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	259065	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	97503	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	96239	52.51	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.02%	
35) Dibromofluoromethane	7.55	113	83488	49.56	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.12%	
50) Toluene-d8	10.06	98	335413	50.65	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.30%	
62) 4-Bromofluorobenzene	12.38	95	108283	47.67	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.34%	
Target Compounds						
					Qvalue	
16) Acetone	3.78	43	12557	23.195	ug/l	96
18) Methyl Acetate	4.28	43	4053	2.600	ug/l #	79
20) Methylene Chloride	4.50	84	8053	4.566	ug/l	90
25) 2-Butanone	6.79	43	1147	1.452	ug/l	96
29) Tetrahydrofuran	7.17	42	497	0.956	ug/l #	36
31) Cyclohexane	7.62	56	2850	1.180	ug/l #	19
36) 1,1-Dichloropropene	7.63	75	10656	4.437	ug/l #	49
37) Ethyl Acetate	6.79	43	1147	0.612	ug/l #	65
38) Carbon Tetrachloride	7.63	117	13661	5.744	ug/l #	17
43) Isopropyl Acetate	8.13	43	31997	10.124	ug/l #	91
45) 1,2-Dichloropropane	9.23	63	947	0.530	ug/l #	43
48) Methyl methacrylate	9.24	41	58462	40.675	ug/l #	34
51) 4-Methyl-2-Pentanone	9.96	43	4035	2.160	ug/l	98
54) cis-1,3-Dichloropropene	9.88	75	16582	5.578	ug/l #	67
56) Ethyl methacrylate	10.52	69	730	3.153	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	2985	0.980	ug/l #	42
59) 2-Hexanone	10.74	43	36569	36.601	ug/l #	48
71) Bromoform	12.37	173	1033	0.743	ug/l #	1
74) N-amyl acetate	12.00	43	1271	3.540	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	54238	28.334	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	54238	77.279	ug/l #	14

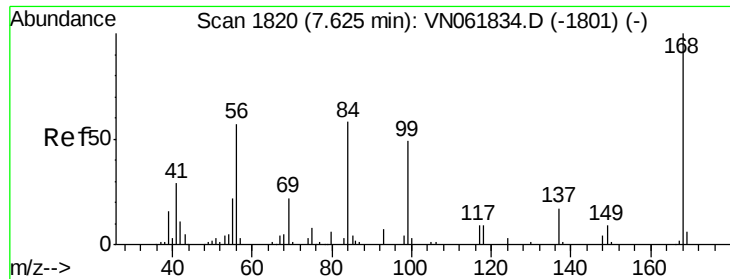
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061936.D

Acq: 19 Jun 2020 6:54

Instrument :

MSVOA_N

ClientSampleId :

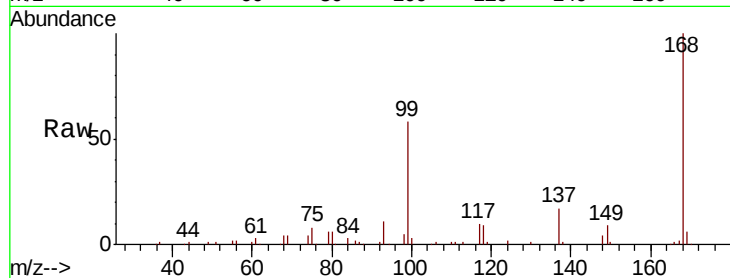
RO-17

Tot Ion:168 Resp: 136656

Ion Ratio Lower Upper

168 100

99 57.6 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): VN061834.D (-1801) (-)

Ion 98.90 (98.60 to 99.60): VN061834.D (-1801) (-)

7.63

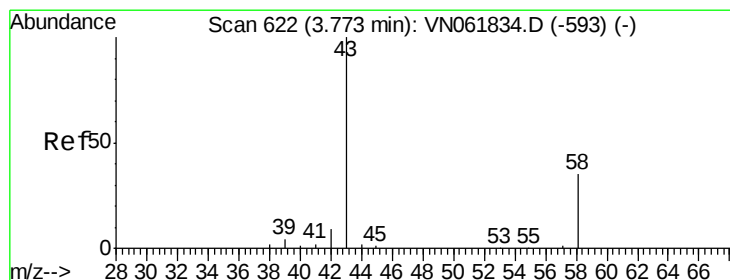
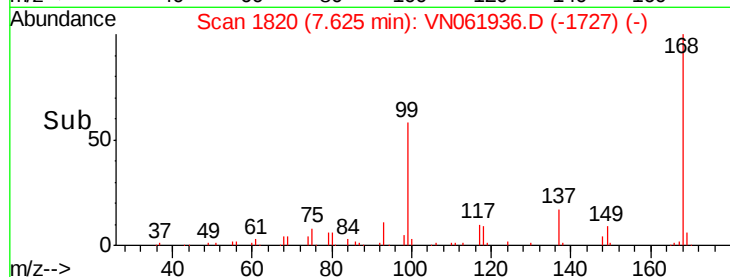
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 23.195 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN061936.D

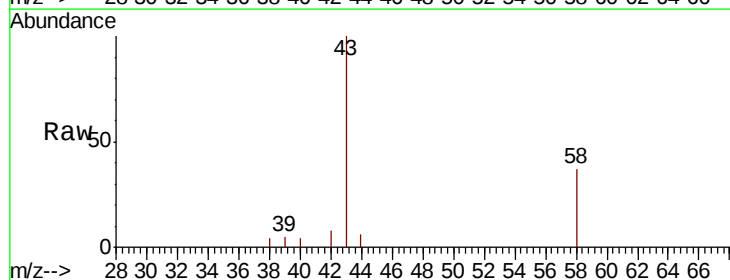
Acq: 19 Jun 2020 6:54

Tgt Ion: 43 Resp: 12557

Ion Ratio Lower Upper

43 100

58 36.9 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-593) (-)

Ion 58.00 (57.70 to 58.70): VN061834.D (-593) (-)

3.78

5000

4000

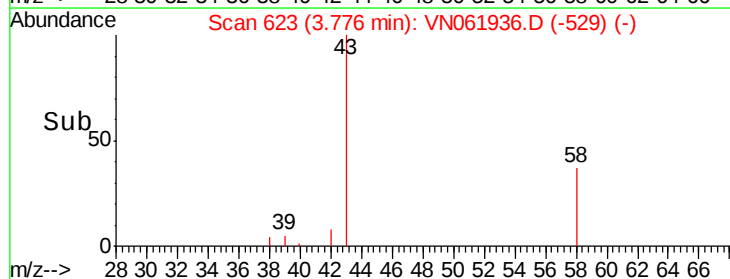
3000

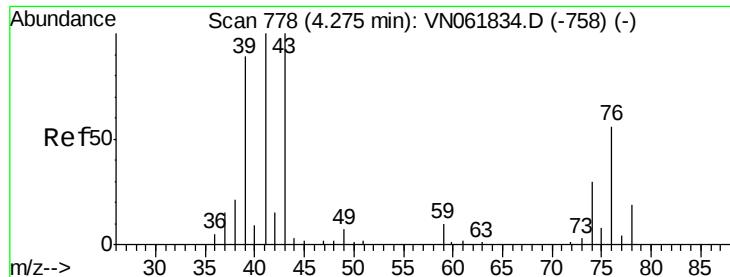
2000

1000

0

Time--> 3.70 3.75 3.80 3.85

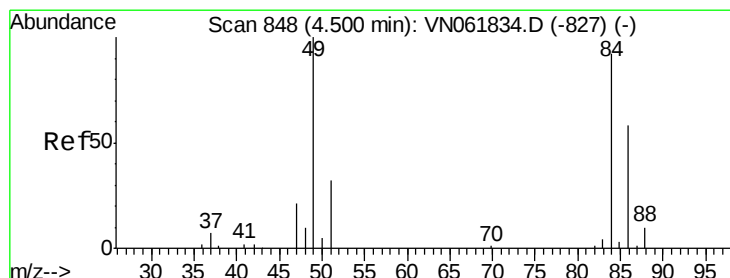
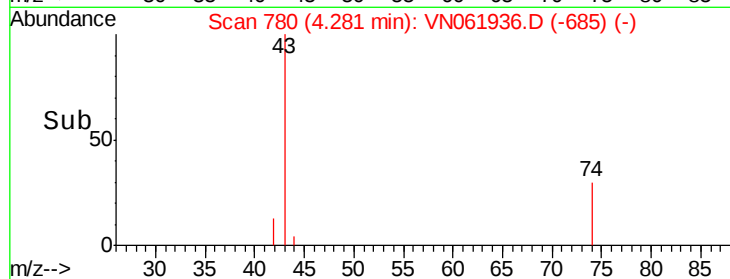
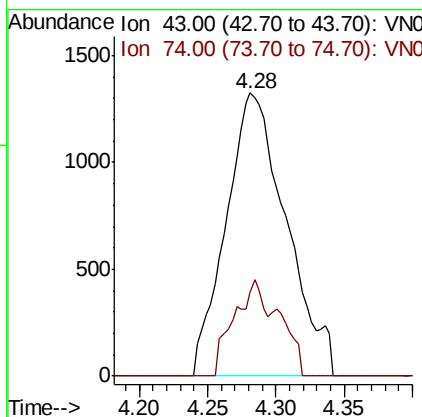
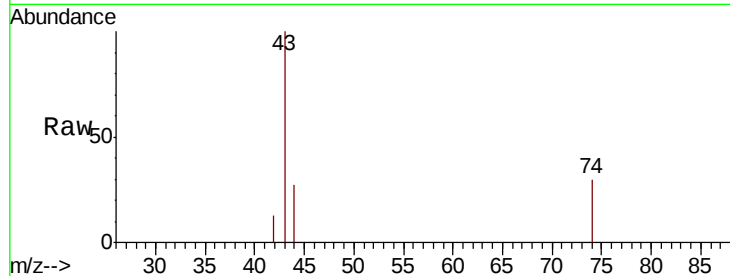




#18
Methyl Acetate
Concen: 2.600 ug/l
RT: 4.28 min Scan# 780
Delta R.T. 0.01 min
Lab File: VN061936.D
Acq: 19 Jun 2020 6:54

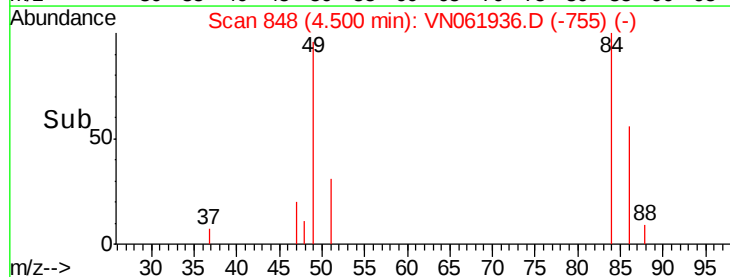
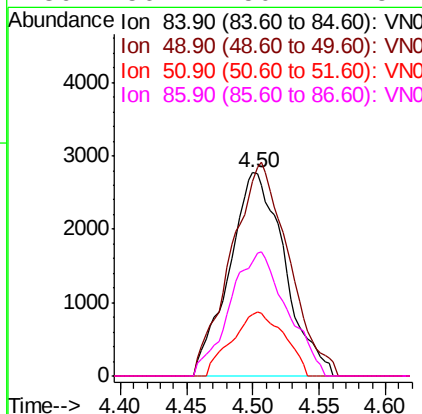
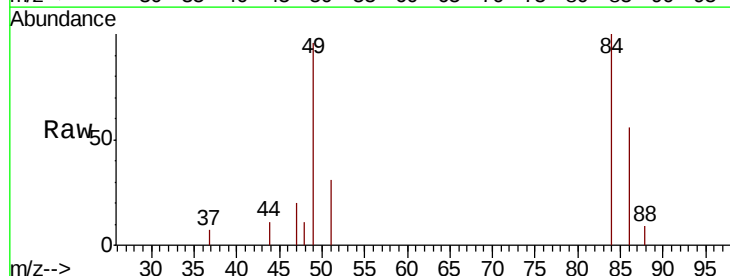
Instrument :
MSVOA_N
ClientSampled :
RO-17

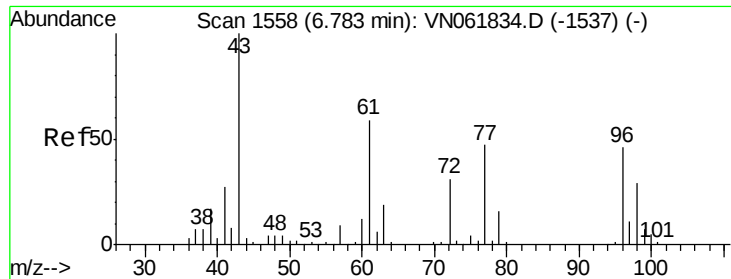
Tot Ion: 43 Resp: 4053
Ion Ratio Lower Upper
43 100
74 17.3 23.0 34.4#



#20
Methylene Chloride
Concen: 4.566 ug/l
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN061936.D
Acq: 19 Jun 2020 6:54

Tgt Ion: 84 Resp: 8053
Ion Ratio Lower Upper
84 100
49 95.8 87.0 130.4
51 30.5 27.8 41.6
86 56.1 50.2 75.2

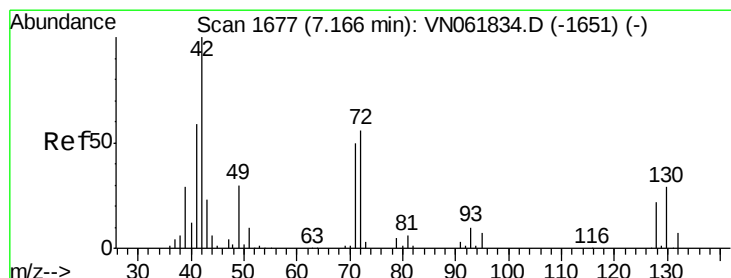
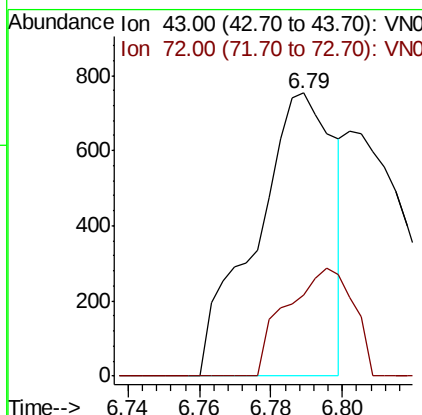
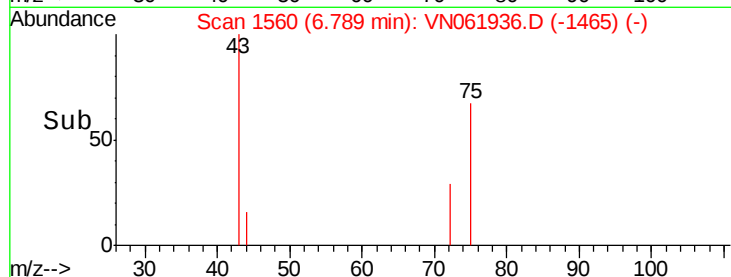
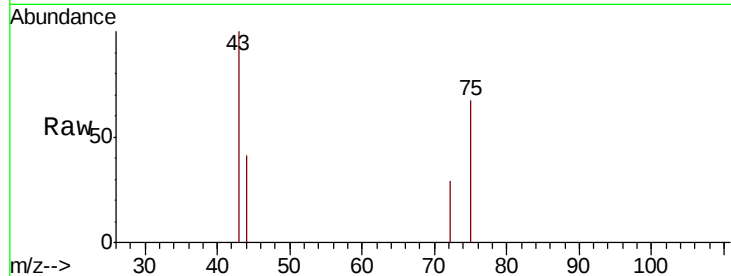




#25
2-Butanone
Concen: 1.452 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. 0.01 min
Lab File: VN061936.D
Acq: 19 Jun 2020 6:54

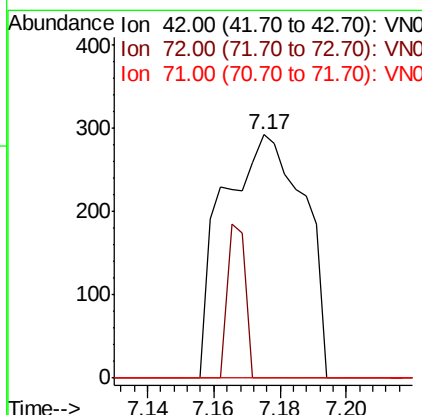
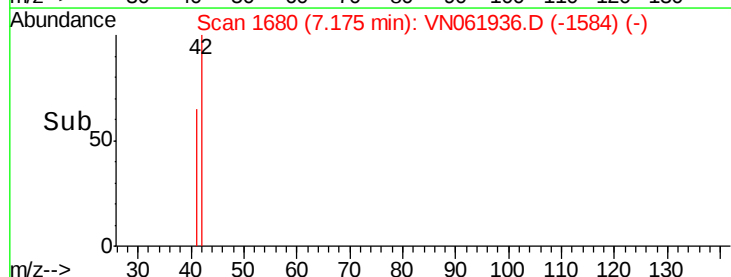
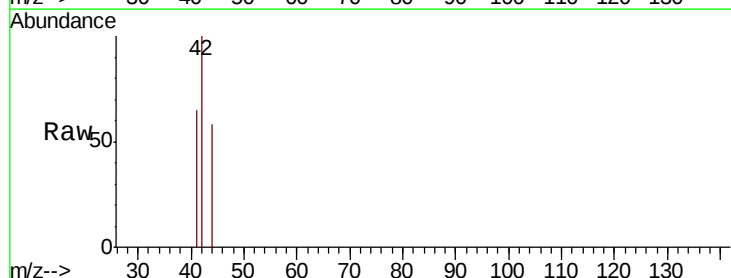
Instrument :
MSVOA_N
ClientSampled :
RO-17

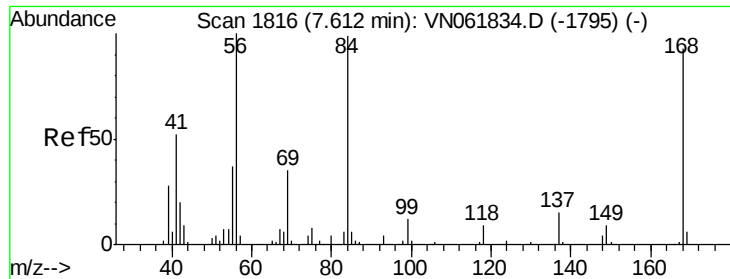
Tot Ion: 43 Resp: 1147
Ion Ratio Lower Upper
43 100
72 28.8 24.6 37.0



#29
Tetrahydrofuran
Concen: 0.956 ug/l
RT: 7.17 min Scan# 1680
Delta R.T. 0.01 min
Lab File: VN061936.D
Acq: 19 Jun 2020 6:54

Tgt Ion: 42 Resp: 497
Ion Ratio Lower Upper
42 100
72 13.9 44.0 66.0#
71 0.0 40.0 60.0#

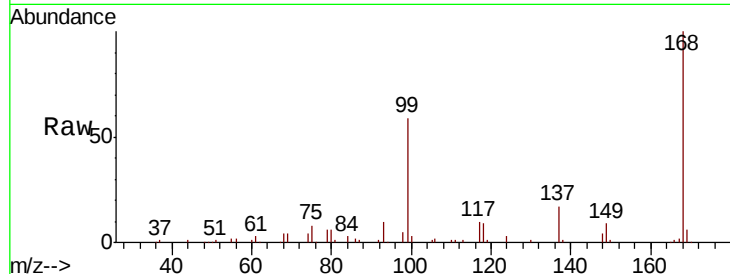




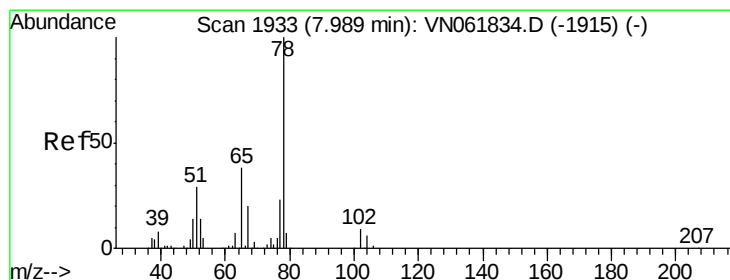
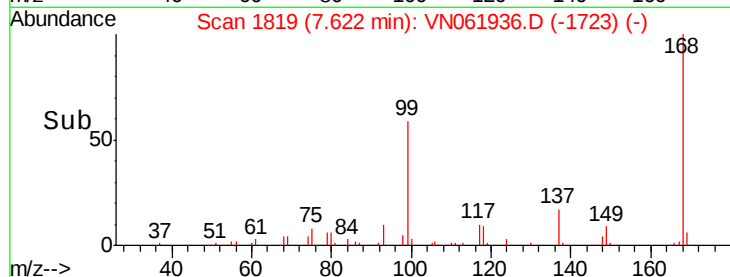
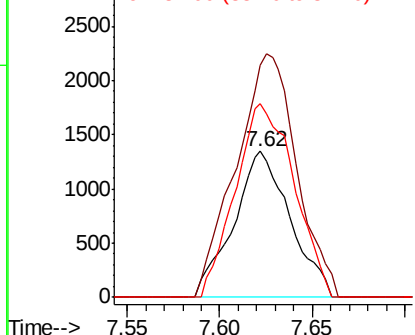
#31
Cyclohexane
Concen: 1.180 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN061936.D
Acq: 19 Jun 2020 6:54

Instrument :
MSVOA_N
ClientSampleId :
RO-17

Tot Ion: 56 Resp: 2850
Ion Ratio Lower Upper
56 100
69 159.2 27.7 41.5#
84 133.2 79.1 118.7#

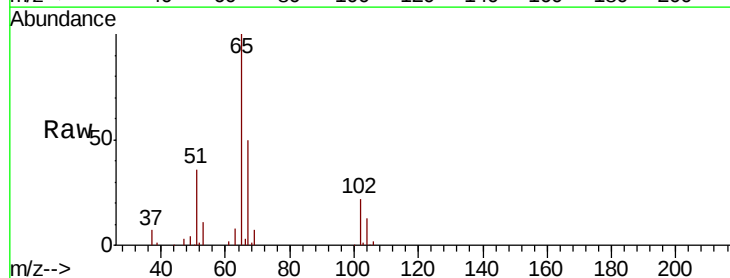


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

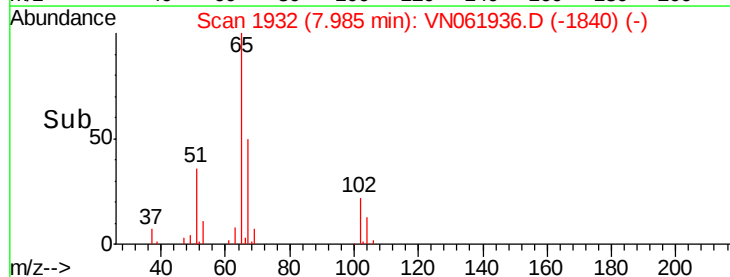
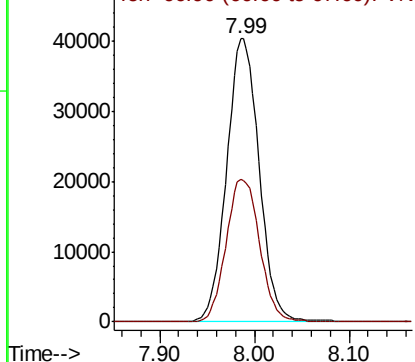


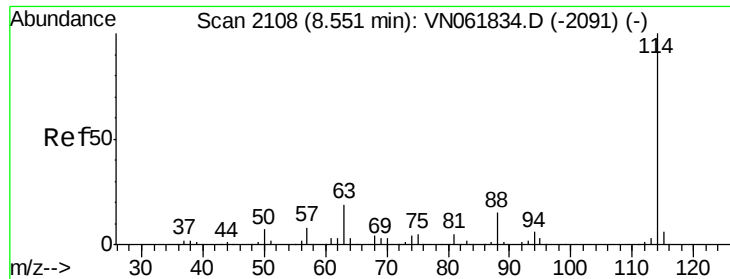
#33
1,2-Dichloroethane-d4
Concen: 52.510 ug/l
RT: 7.99 min Scan# 1932
Delta R.T. -0.00 min
Lab File: VN061936.D
Acq: 19 Jun 2020 6:54

Tgt Ion: 65 Resp: 96239
Ion Ratio Lower Upper
65 100
67 51.9 0.0 106.2



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

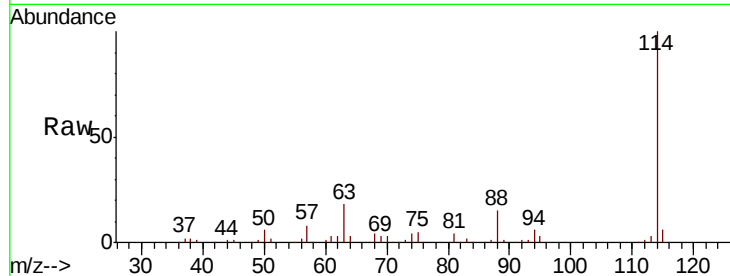




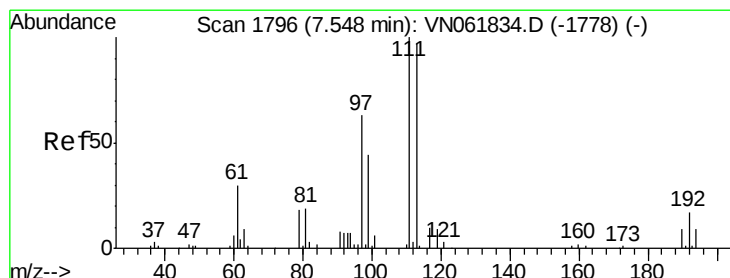
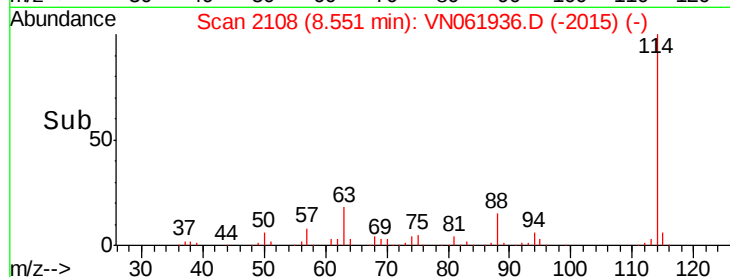
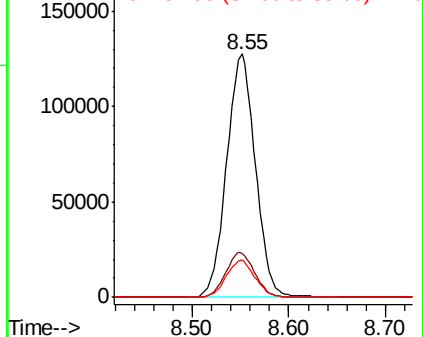
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061936.D
 Acq: 19 Jun 2020 6:54

Instrument :
 MSVOA_N
 ClientSampleId :
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Tot Ion:114 Resp: 263302
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 37.6
 88 15.2 0.0 31.0

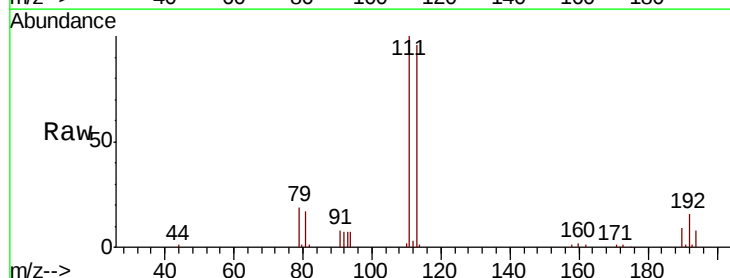


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

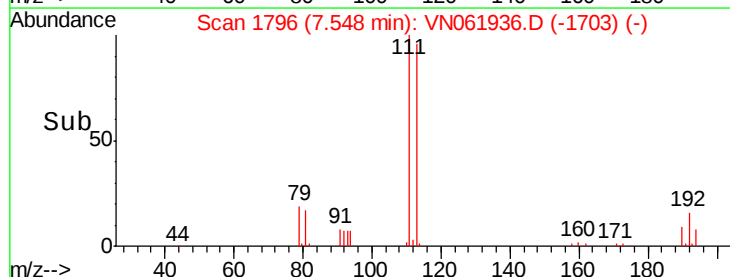
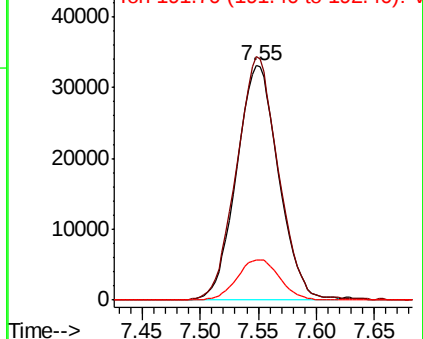


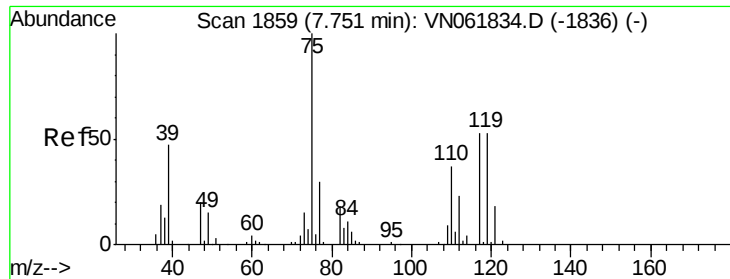
#35
 Dibromofluoromethane
 Concen: 49.563 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN061936.D
 Acq: 19 Jun 2020 6:54

Tgt Ion:113 Resp: 83488
 Ion Ratio Lower Upper
 113 100
 111 103.3 83.7 125.5
 192 17.4 13.9 20.9



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: 4.437 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN061936.D

Acq: 19 Jun 2020 6:54

Instrument :

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RO-17

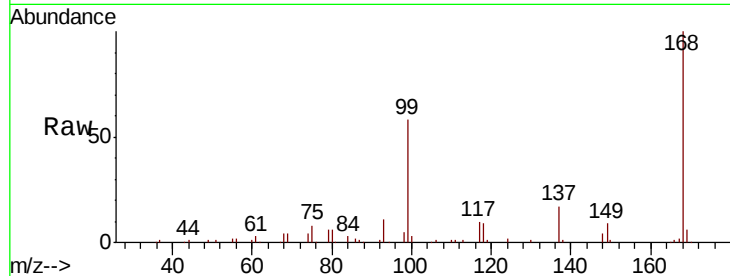
Tot Ion: 75 Resp: 10656

Ion Ratio Lower Upper

75 100

110 8.8 18.2 54.6#

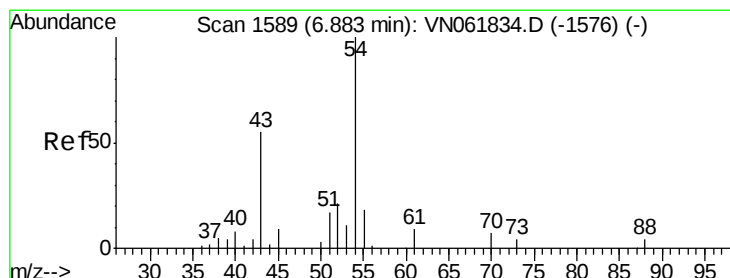
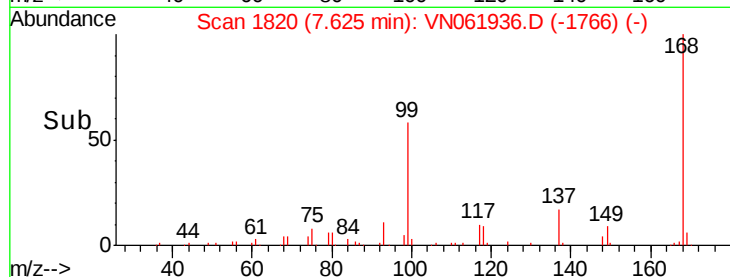
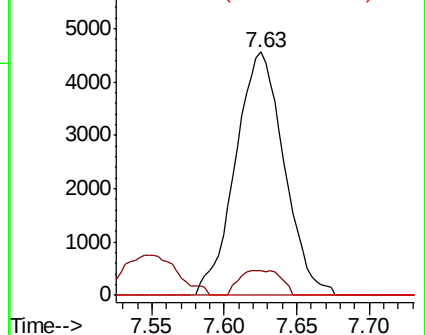
77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: 0.612 ug/l

RT: 6.79 min Scan# 1560

Delta R.T. -0.09 min

Lab File: VN061936.D

Acq: 19 Jun 2020 6:54

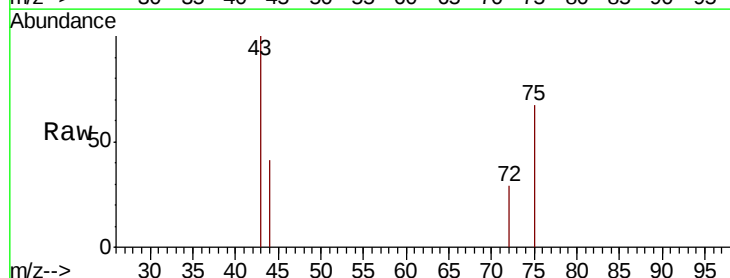
Tgt Ion: 43 Resp: 1147

Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.4#

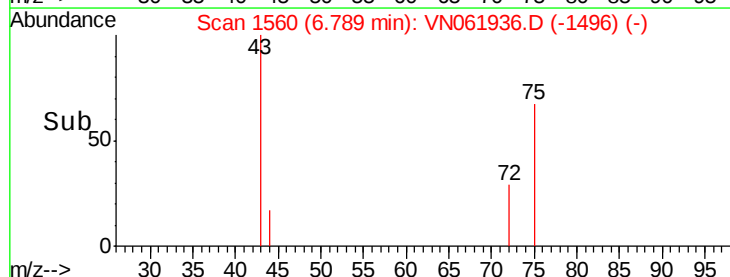
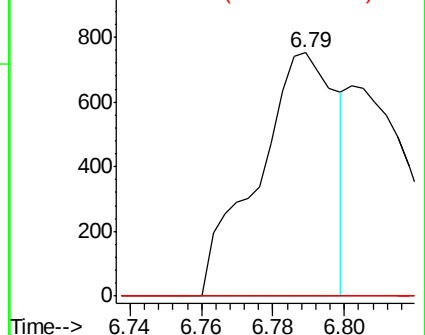
70 0.0 9.4 14.2#

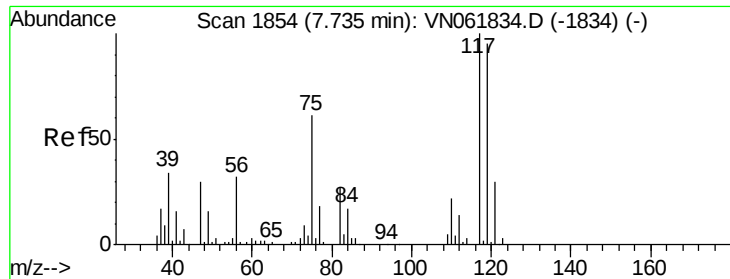


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 5.744 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061936.D

Acq: 19 Jun 2020 6:54

Instrument :

MSVOA_N

ClientSampleId :

RO-17

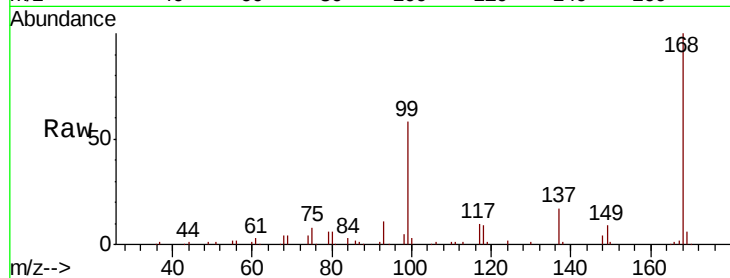
Tot Ion:117 Resp: 13661

Ion Ratio Lower Upper

117 100

119 6.1 75.8 113.6#

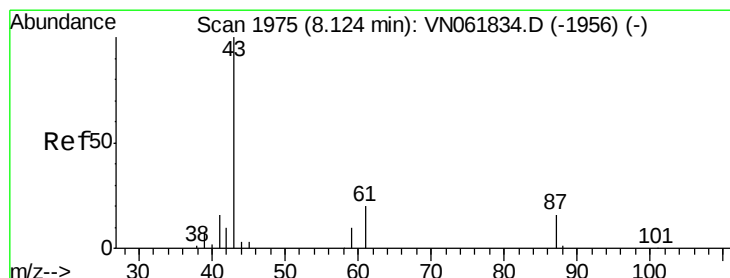
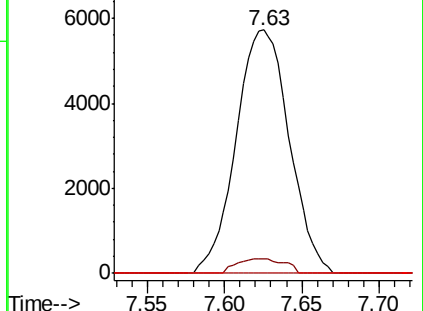
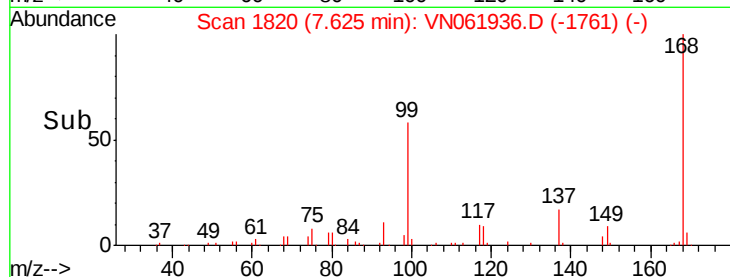
121 0.0 23.8 35.6#



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: 10.124 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061936.D

Acq: 19 Jun 2020 6:54

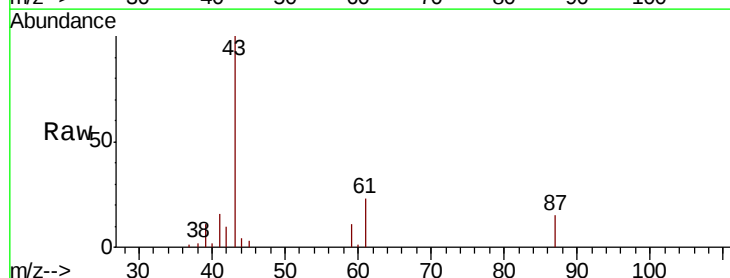
Tgt Ion: 43 Resp: 31997

Ion Ratio Lower Upper

43 100

61 22.7 24.0 36.0#

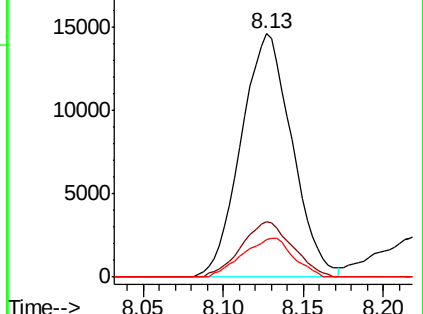
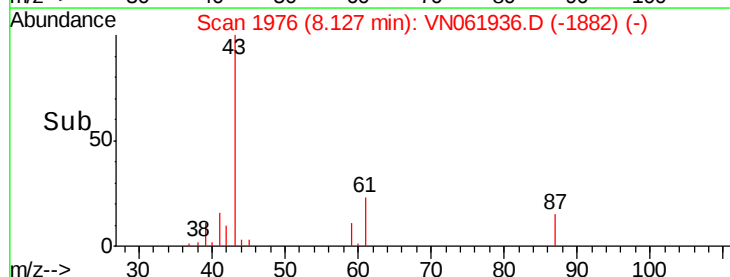
87 15.8 12.5 18.7

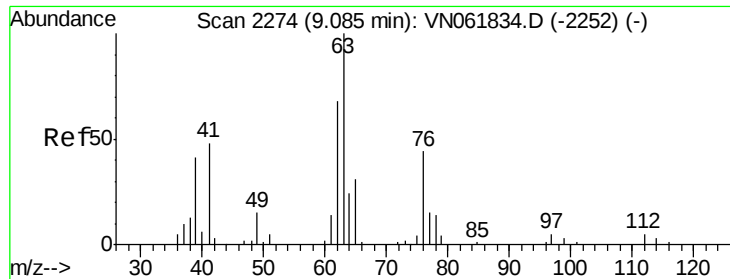


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

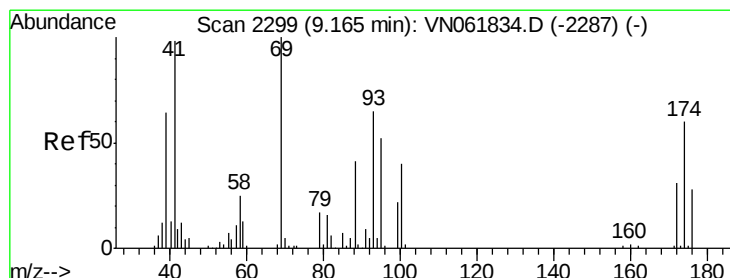
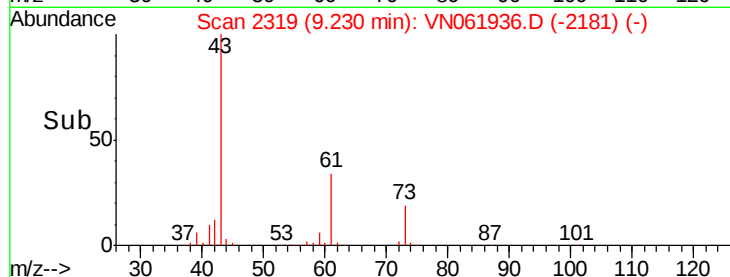
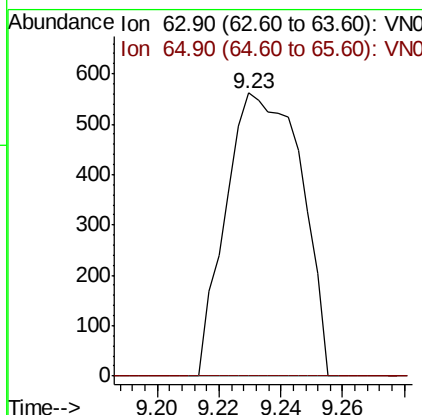
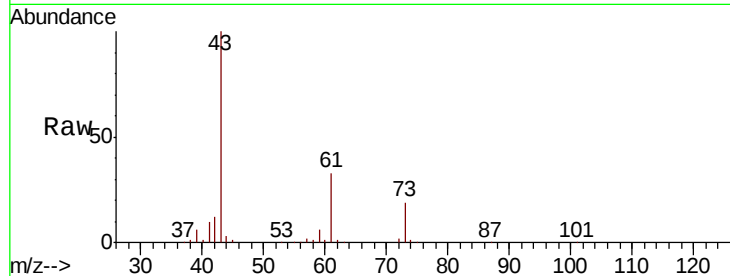




#45
 1,2-Dichloropropane
 Concen: 0.530 ug/l
 RT: 9.23 min Scan# 2319
 Delta R.T. 0.14 min
 Lab File: VN061936.D
 Acq: 19 Jun 2020 6:54

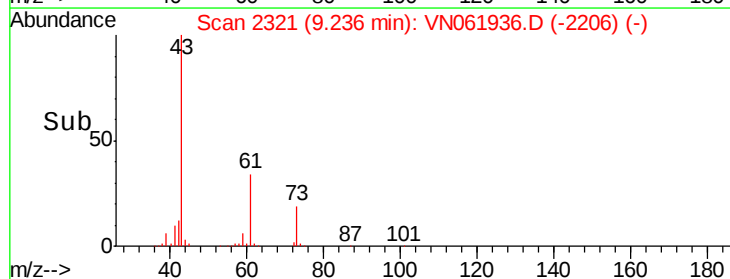
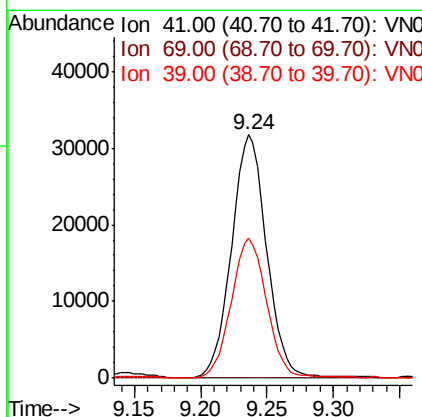
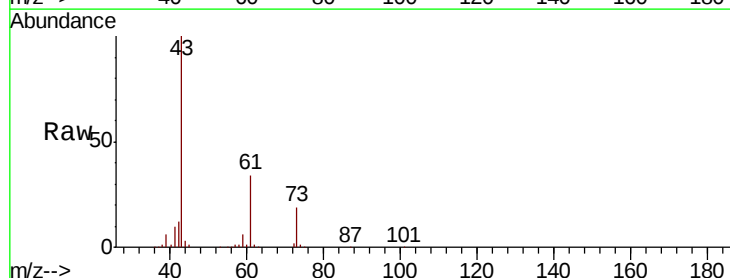
Instrument :
 MSVOA_N
 ClientSampleId :
 RO-17

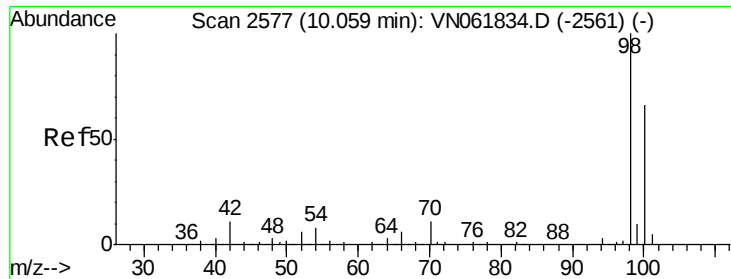
Tot Ion: 63 Resp: 947
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.1 37.7#



#48
 Methyl methacrylate
 Concen: 40.675 ug/l
 RT: 9.24 min Scan# 2321
 Delta R.T. 0.07 min
 Lab File: VN061936.D
 Acq: 19 Jun 2020 6:54

Tgt Ion: 41 Resp: 58462
 Ion Ratio Lower Upper
 41 100
 69 0.0 83.0 124.4#
 39 57.8 55.1 82.7





#50

Toluene-d8

Concen: 50.649 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061936.D

Acq: 19 Jun 2020 6:54

Instrument :

MSVOA_N

ClientSampled :

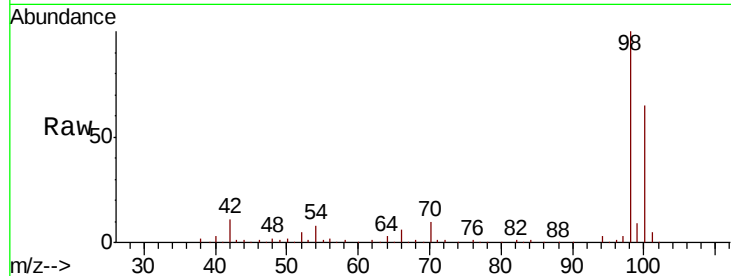
RO-17

Tot Ion: 98 Resp: 335413

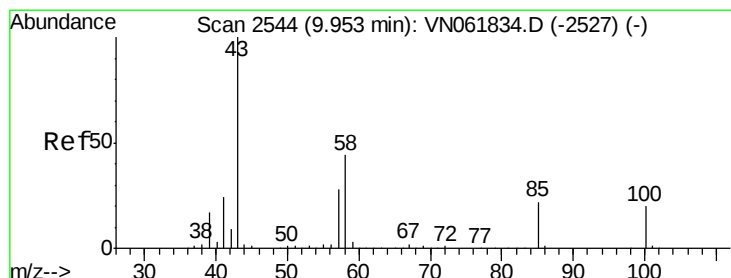
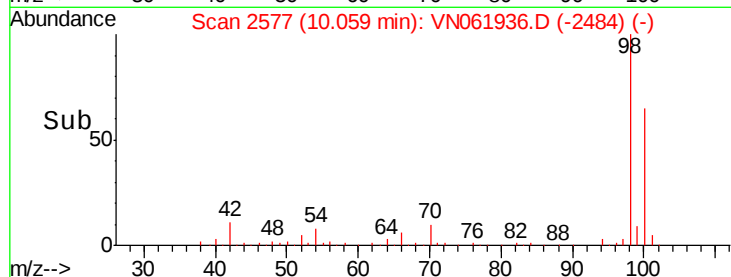
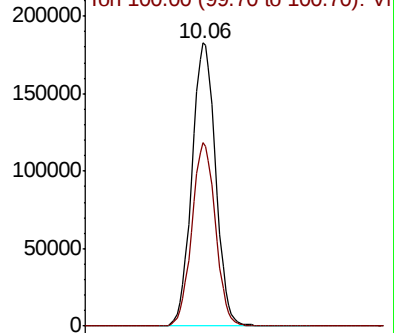
Ion Ratio Lower Upper

98 100

100 64.4 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN061834.D (-2561) (-)



#51

4-Methyl-2-Pentanone

Concen: 2.160 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN061936.D

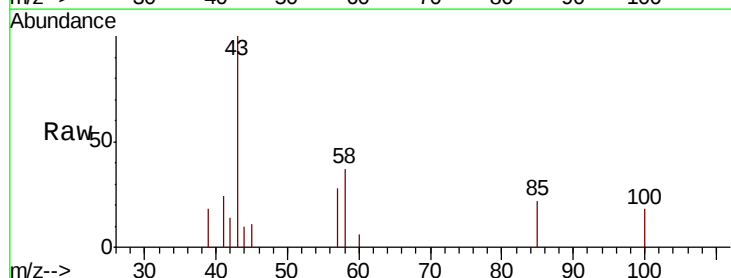
Acq: 19 Jun 2020 6:54

Tgt Ion: 43 Resp: 4035

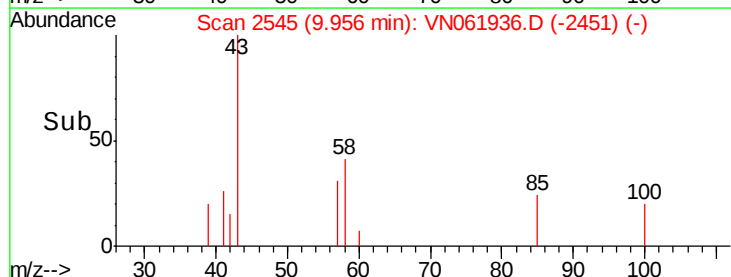
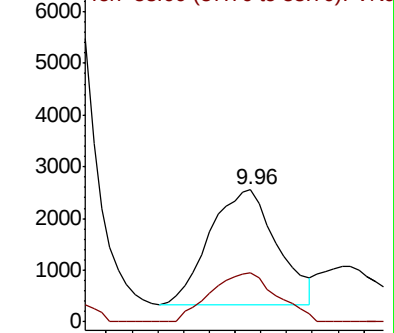
Ion Ratio Lower Upper

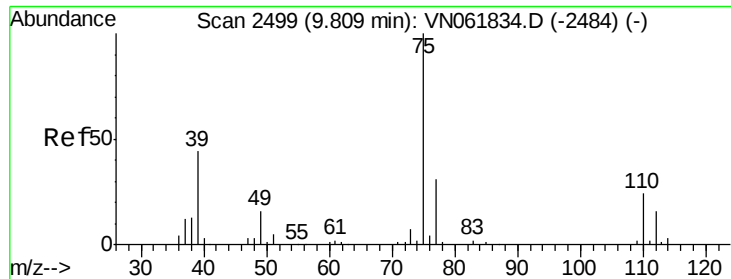
43 100

58 42.3 34.6 52.0



Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-2527) (-)



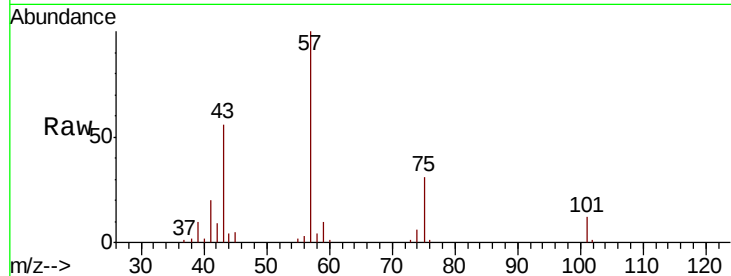


#54

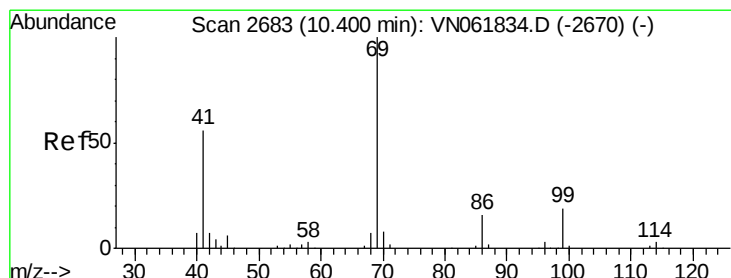
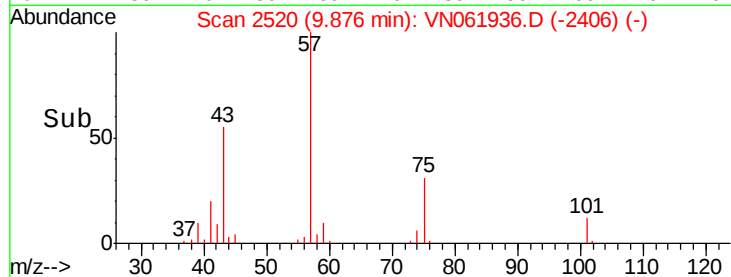
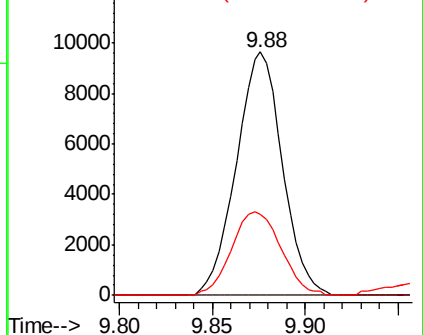
cis-1,3-Dichloropropene
 Concen: 5.578 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN061936.D
 Acq: 19 Jun 2020 6:54

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-17

Tot Ion: 75 Resp: 16582
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 33.5 35.4 53.0#



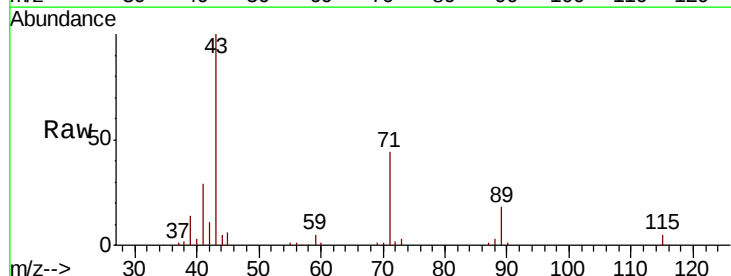
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



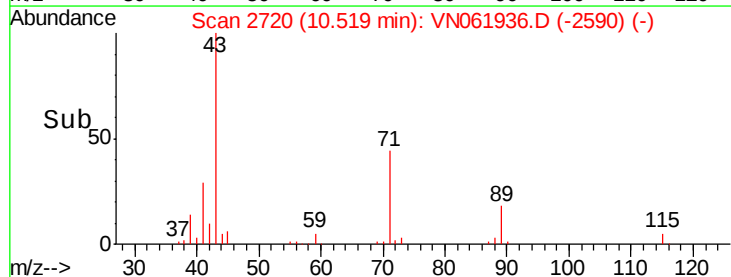
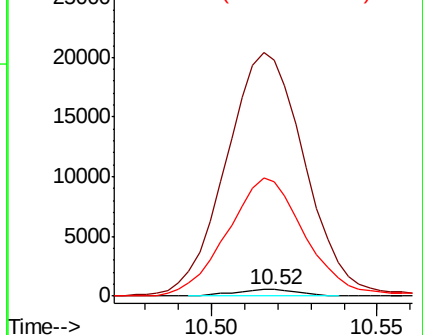
#56

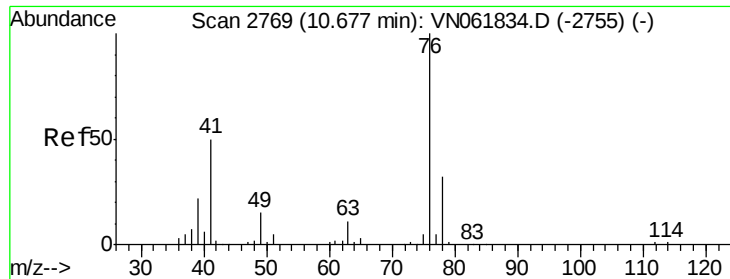
Ethyl methacrylate
 Concen: 3.153 ug/l
 RT: 10.52 min Scan# 2720
 Delta R.T. 0.12 min
 Lab File: VN061936.D
 Acq: 19 Jun 2020 6:54

Tgt Ion: 69 Resp: 730
 Ion Ratio Lower Upper
 69 100
 41 4653.3 44.9 67.3#
 39 2217.8 30.0 45.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0
 Ion 41.00 (40.70 to 41.70): VN0
 Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.980 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN061936.D

Acq: 19 Jun 2020 6:54

Instrument :

MSVOA_N

ClientSampled :

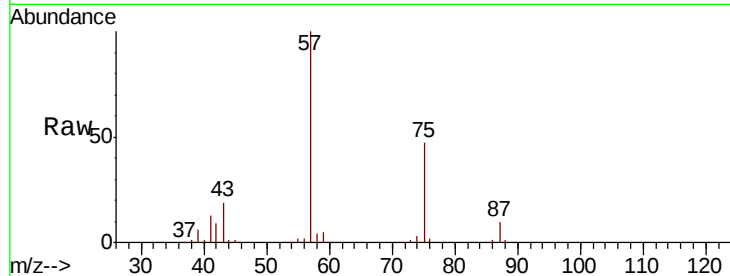
RO-17

Tot Ion: 76 Resp: 2985

Ion Ratio Lower Upper

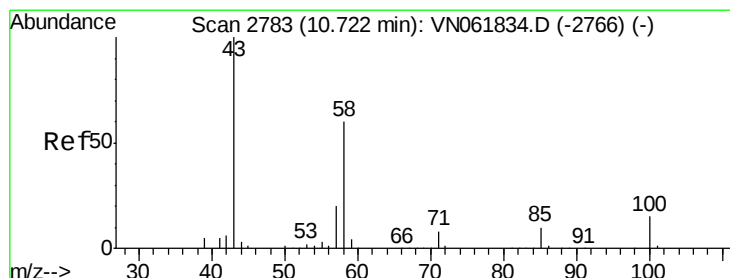
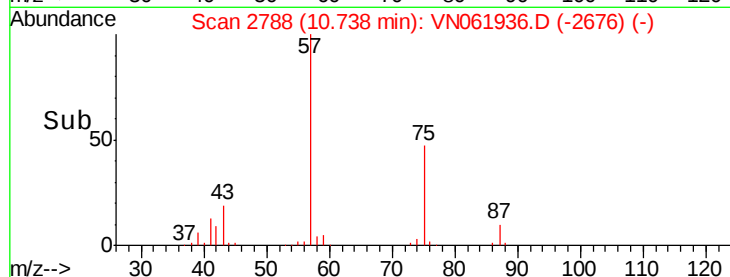
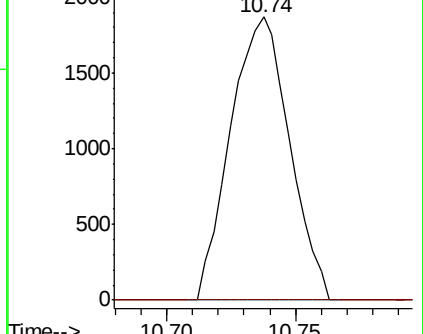
76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 36.601 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN061936.D

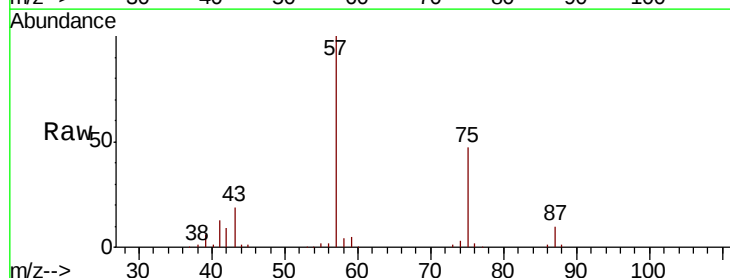
Acq: 19 Jun 2020 6:54

Tgt Ion: 43 Resp: 36569

Ion Ratio Lower Upper

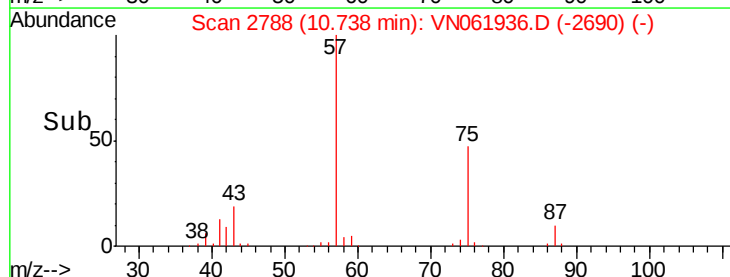
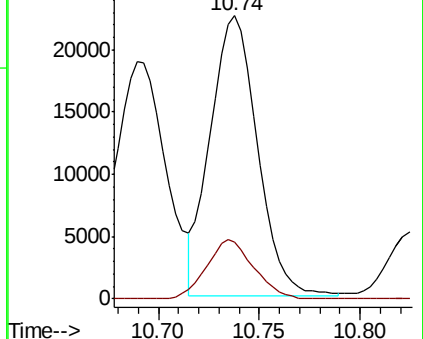
43 100

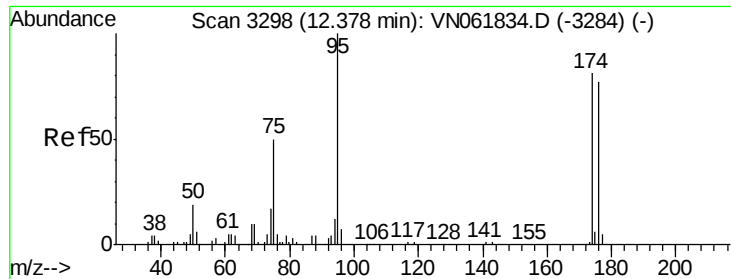
58 21.0 30.1 90.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 47.669 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN061936.D

Acq: 19 Jun 2020 6:54

Instrument :

MSVOA_N

ClientSampled :

RO-17

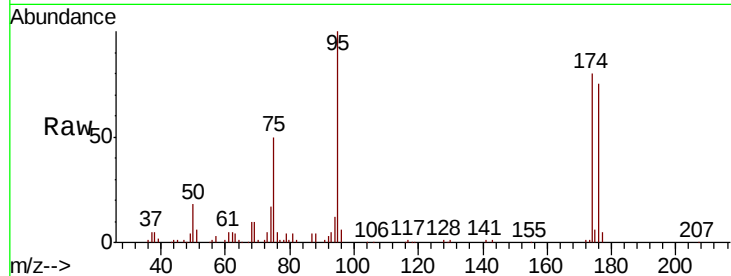
Tot Ion: 95 Resp: 108283

Ion Ratio Lower Upper

95 100

174 80.5 0.0 158.6

176 76.2 0.0 152.0

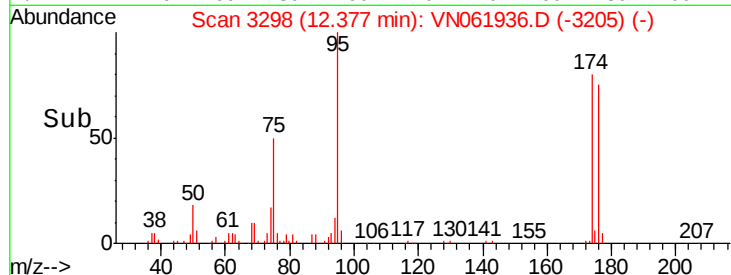


Abundance Ion 94.90 (94.60 to 95.60): VN061834.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN061834.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN061834.D (-3284) (-)

Time-->

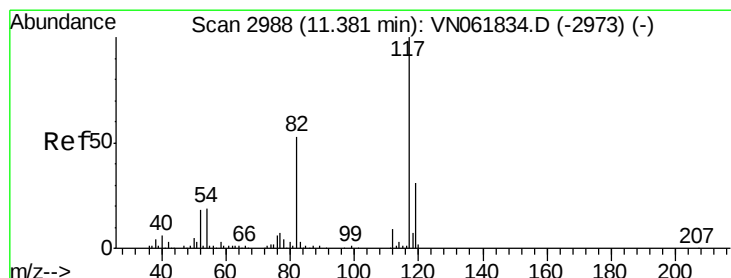


Abundance Ion 94.90 (94.60 to 95.60): VN061936.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN061936.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN061936.D (-3205) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN061936.D

Acq: 19 Jun 2020 6:54

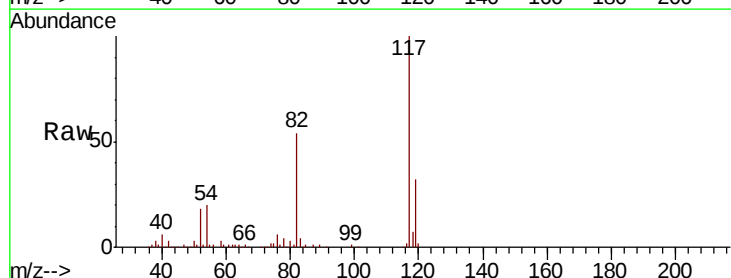
Tgt Ion: 117 Resp: 259065

Ion Ratio Lower Upper

117 100

82 53.7 42.6 64.0

119 32.3 24.7 37.1

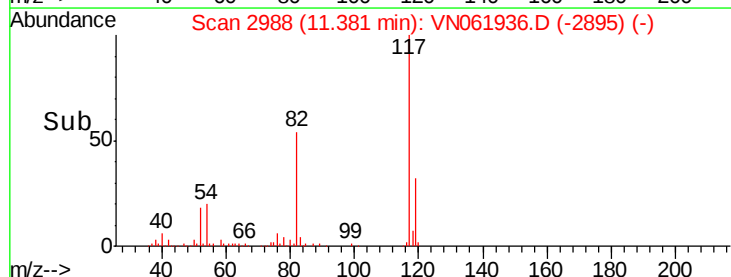


Abundance Ion 116.90 (116.60 to 117.60): VN061834.D (-2973) (-)

Ion 82.00 (81.70 to 82.70): VN061834.D (-2973) (-)

Ion 118.90 (118.60 to 119.60): VN061834.D (-2973) (-)

Time-->

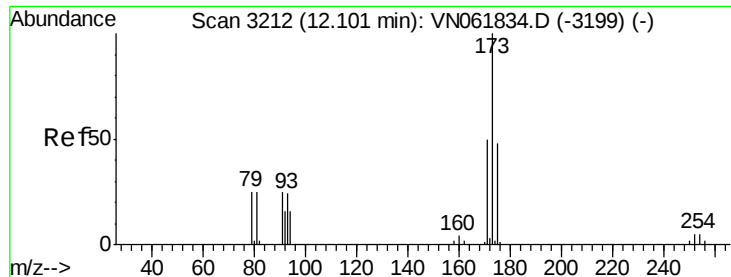


Abundance Ion 116.90 (116.60 to 117.60): VN061936.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN061936.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN061936.D (-2895) (-)

Time-->



#71

Bromoform

Concen: 0.743 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN061936.D

Acq: 19 Jun 2020 6:54

Instrument :

MSVOA_N

ClientSampleId :

RO-17

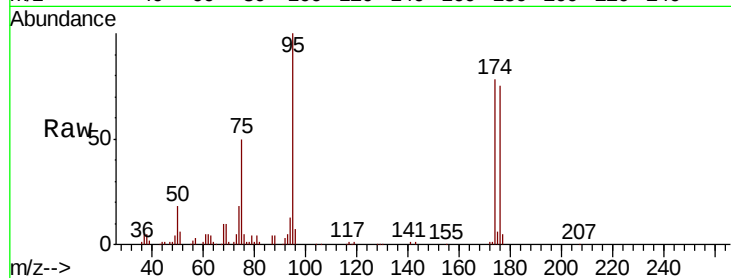
Tot Ion:173 Resp: 1033

Ion Ratio Lower Upper

173 100

175 511.1 23.9 71.7#

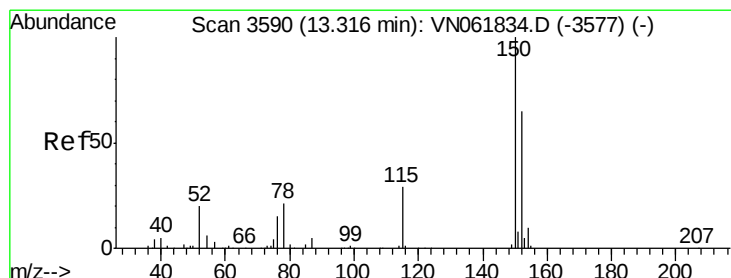
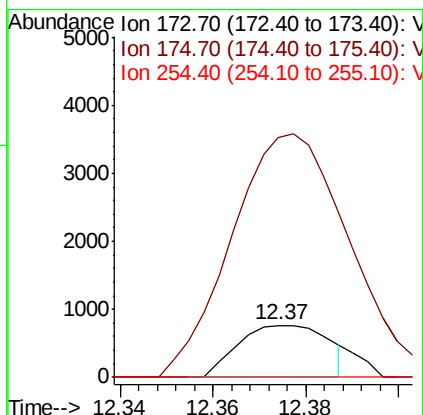
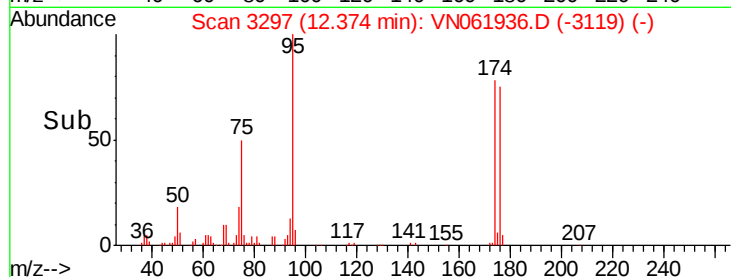
254 0.0 0.0 0.0



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: VN061936.D

Acq: 19 Jun 2020 6:54

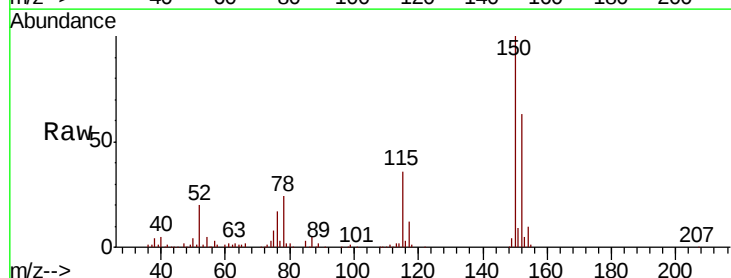
Tgt Ion:152 Resp: 97503

Ion Ratio Lower Upper

152 100

115 57.0 29.1 87.3

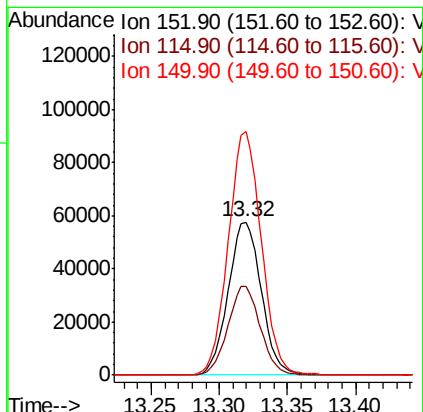
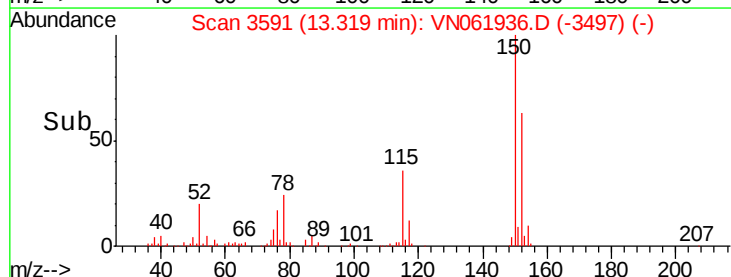
150 158.5 0.0 347.6

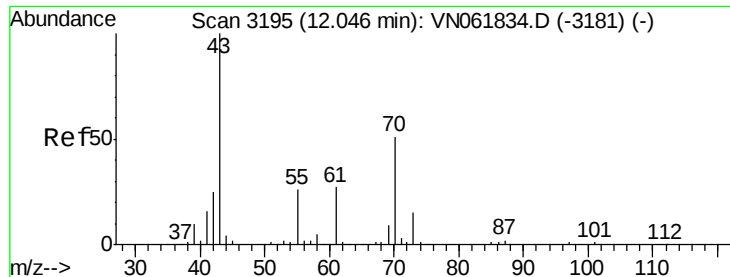


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.540 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061936.D

Acq: 19 Jun 2020 6:54

Instrument :

MSVOA_N

ClientSampled :

RO-17

Tot Ion: 43 Resp: 1271

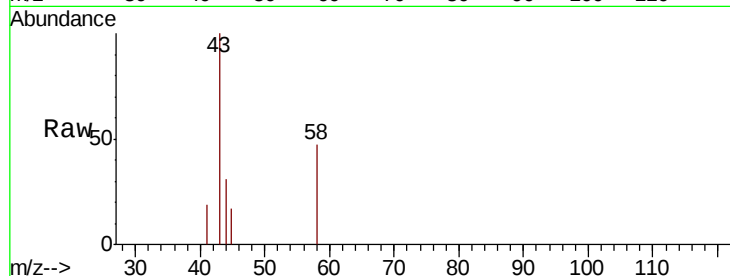
Ion Ratio Lower Upper

43 100

70 0.0 40.6 60.8#

55 0.0 21.5 32.3#

61 0.0 21.6 32.4#



Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-3181) (-)

Ion 70.00 (69.70 to 70.70): VN061834.D (-3181) (-)

Ion 55.00 (54.70 to 55.70): VN061834.D (-3181) (-)

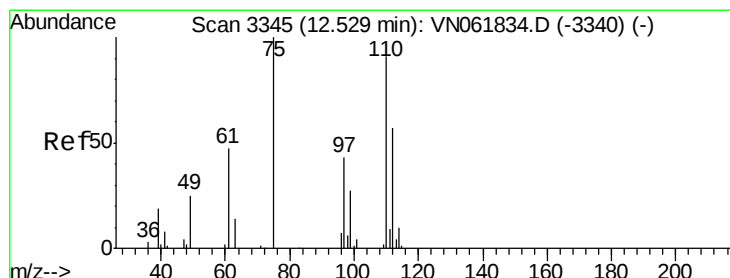
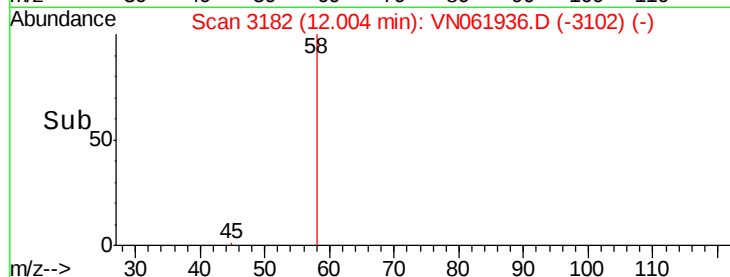
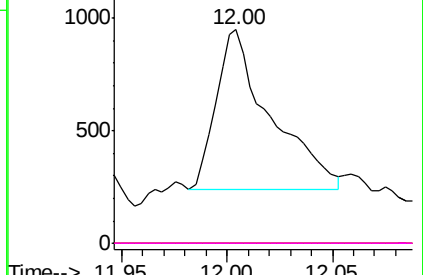
Ion 61.00 (60.70 to 61.70): VN061834.D (-3181) (-)

12.00

1000

500

0



#76

1,2,3-Trichloropropane

Concen: 28.334 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061936.D

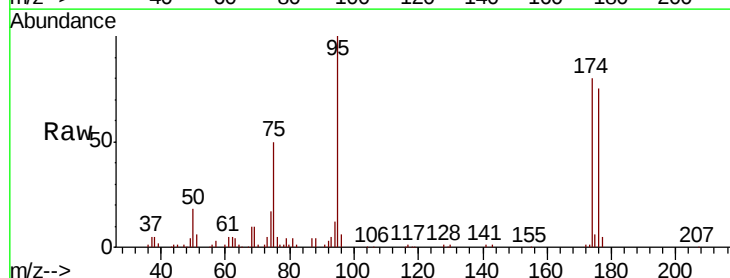
Acq: 19 Jun 2020 6:54

Tgt Ion: 75 Resp: 54238

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061834.D (-3340) (-)

Ion 77.00 (76.70 to 77.70): VN061834.D (-3340) (-)

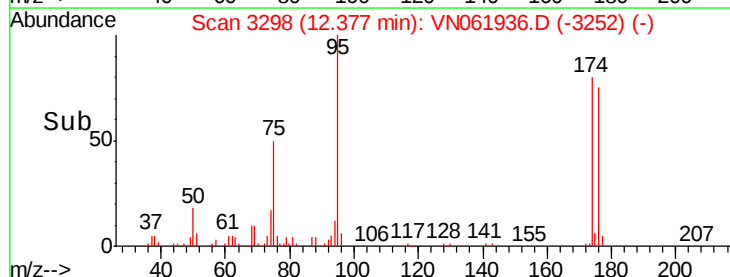
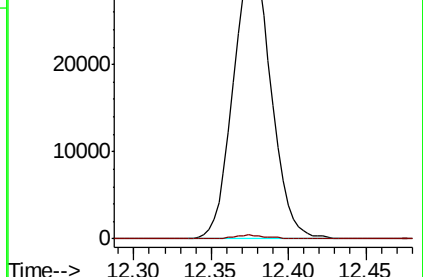
12.38

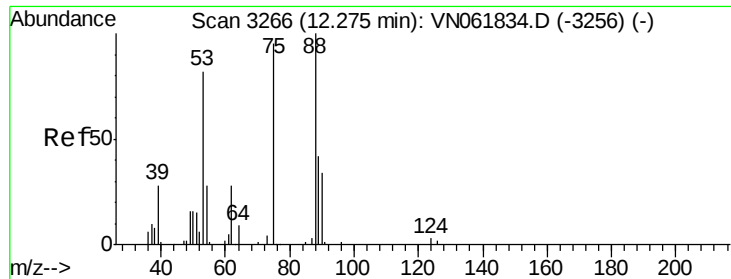
30000

20000

10000

0





#81

trans-1,4-Dichloro-2-butene

Concen: 77.279 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061936.D

Acq: 19 Jun 2020 6:54

Instrument :

MSVOA_N

ClientSampleId :

RO-17

Tot Ion: 75 Resp: 54238

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

89 0.0 36.0 54.0#

