

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041520\
 Data File : VN060970.D
 Acq On : 15 Apr 2020 18:30
 Operator : JC/MD
 Sample : L2230-48
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 16 06:36:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	153080	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	262592	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	246566	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	113234	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	103575	49.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.58%	
35) Dibromofluoromethane	7.56	113	77950	49.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.18%	
50) Toluene-d8	10.08	98	329501	50.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.62%	
62) 4-Bromofluorobenzene	12.40	95	123926	52.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.28%	

Target Compounds

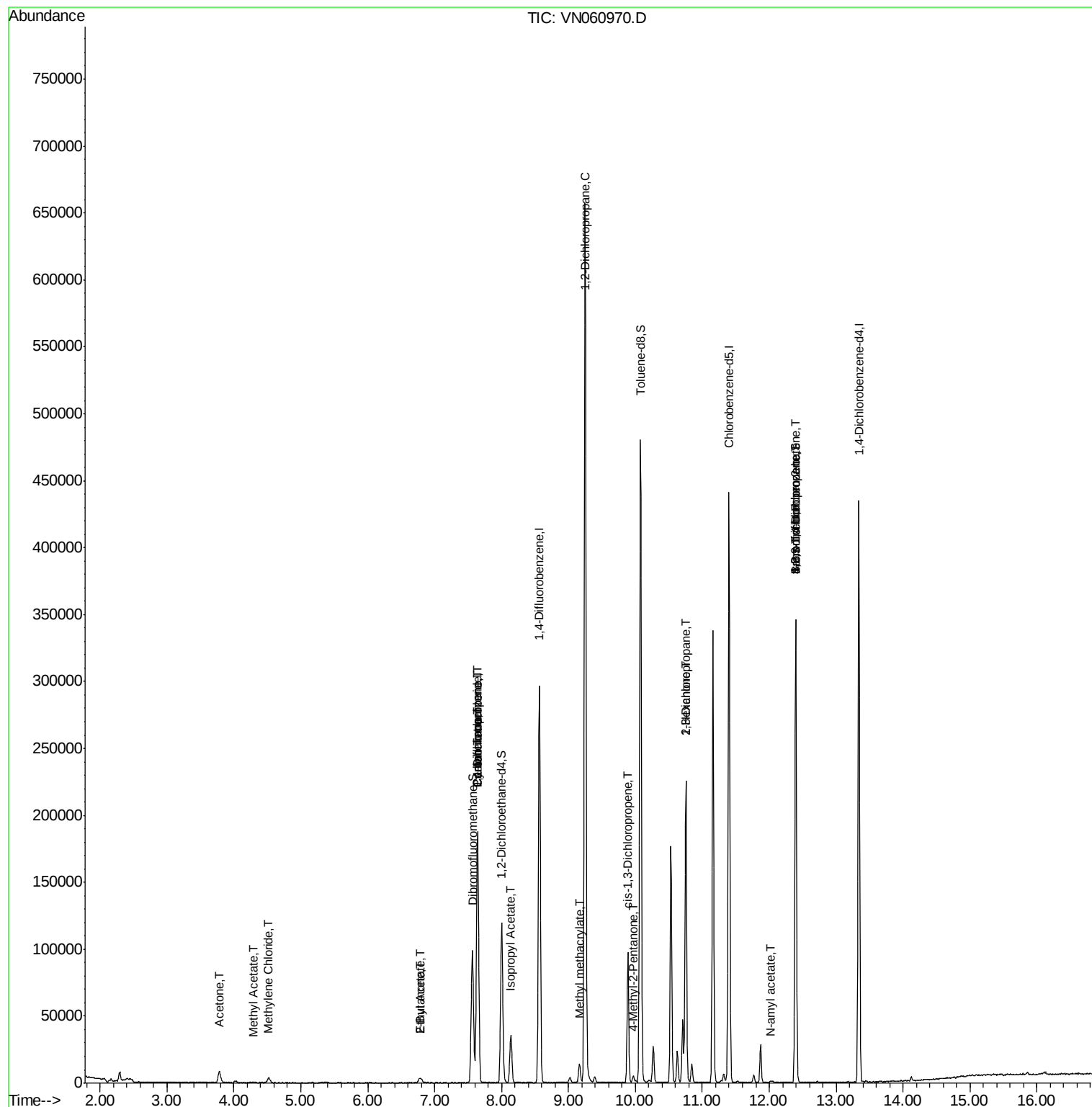
						Qvalue
16) Acetone	3.78	43	15549	20.889	ug/l	97
18) Methyl Acetate	4.29	43	792	0.378	ug/l #	54
20) Methylene Chloride	4.52	84	2733	1.493	ug/l	94
25) 2-Butanone	6.80	43	4554	3.781	ug/l	90
31) Cyclohexane	7.64	56	3208	0.948	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	12312	4.842	ug/l #	49
37) Ethyl Acetate	6.80	43	4554	1.658	ug/l #	70
38) Carbon Tetrachloride	7.64	117	14748	6.472	ug/l #	16
43) Isopropyl Acetate	8.14	43	43465	9.593	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	719	0.355	ug/l #	43
48) Methyl methacrylate	9.16	41	2351	1.165	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4053	1.572	ug/l #	84
54) cis-1,3-Dichloropropene	9.89	75	17306	5.397	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	2132	0.689	ug/l #	42
59) 2-Hexanone	10.75	43	33941	18.274	ug/l #	51
71) Bromoform	12.40	173	756	2.177	ug/l #	1
74) N-amyl acetate	12.02	43	2026	0.516	ug/l #	45
76) 1,2,3-Trichloropropane	12.39	75	62226	25.467	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	62226	65.408	ug/l #	13

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060970.D

Acq: 15 Apr 2020 18:30

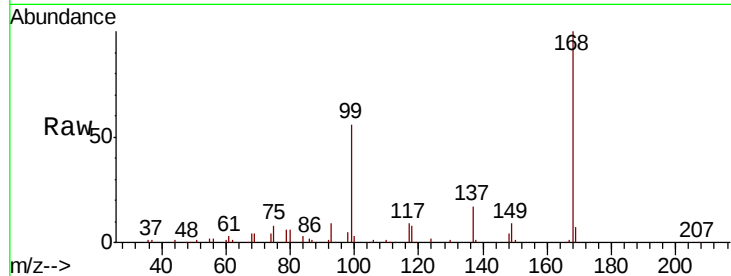
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 153080

Ion Ratio Lower Upper

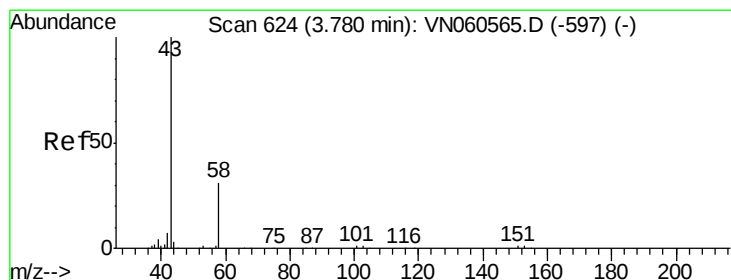
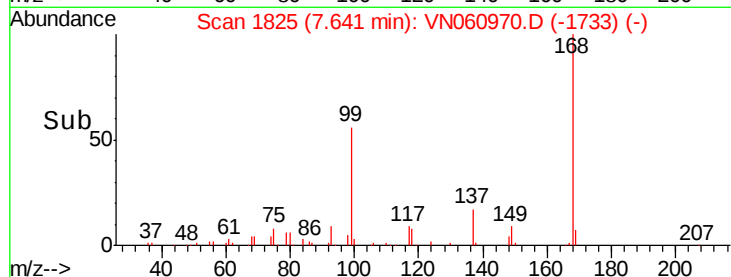
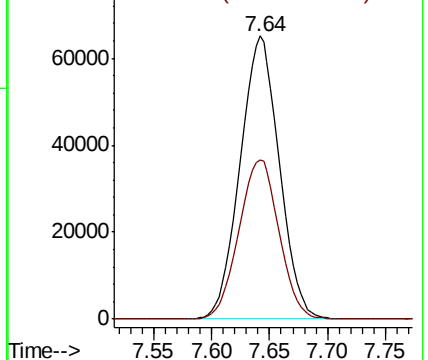
168 100

99 56.3 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 20.889 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060970.D

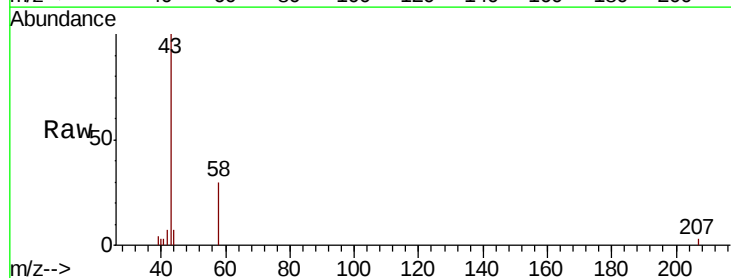
Acq: 15 Apr 2020 18:30

Tgt Ion: 43 Resp: 15549

Ion Ratio Lower Upper

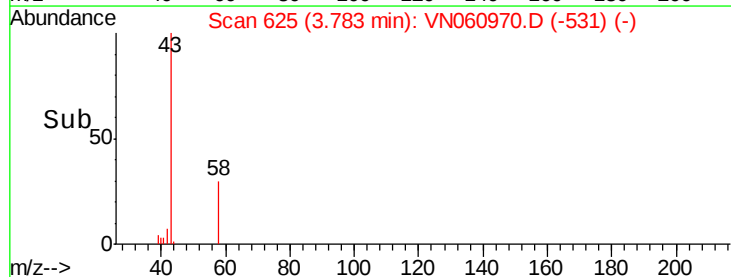
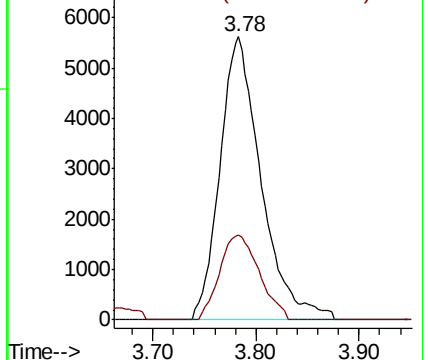
43 100

58 29.9 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

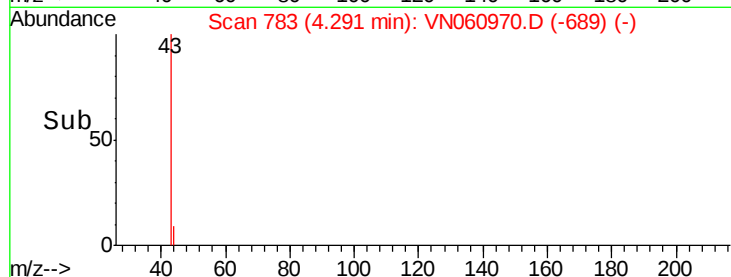
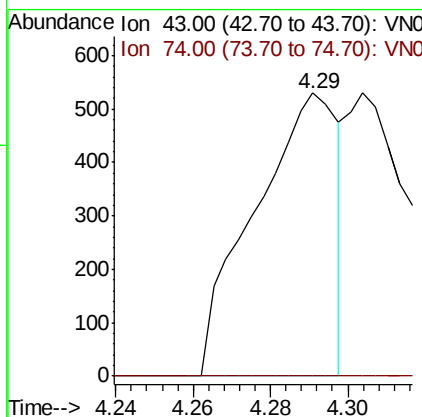
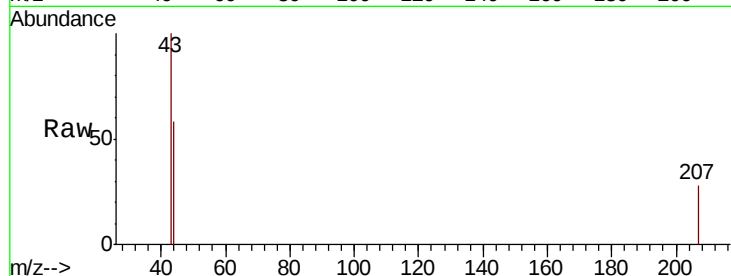




#18
Methyl Acetate
Concen: 0.378 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.00 min
Lab File: VN060970.D
Acq: 15 Apr 2020 18:30

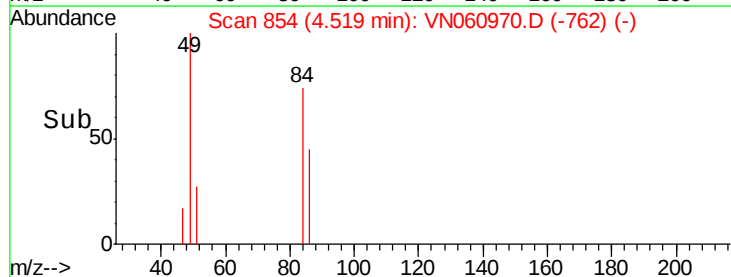
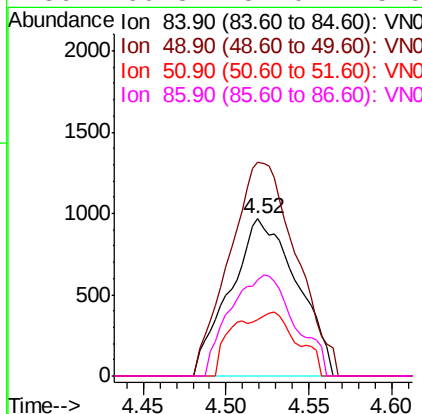
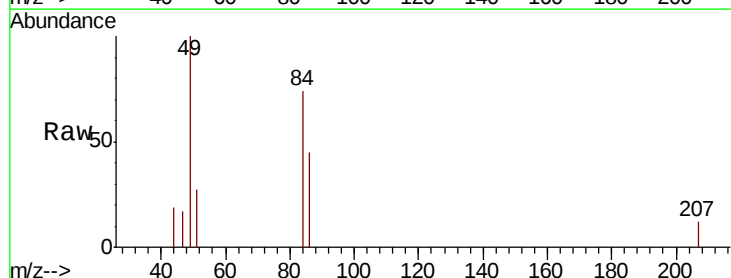
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 792
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 1.493 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060970.D
Acq: 15 Apr 2020 18:30

Tgt Ion: 84 Resp: 2733
Ion Ratio Lower Upper
84 100
49 135.7 103.3 154.9
51 36.2 31.6 47.4
86 60.8 52.0 78.0

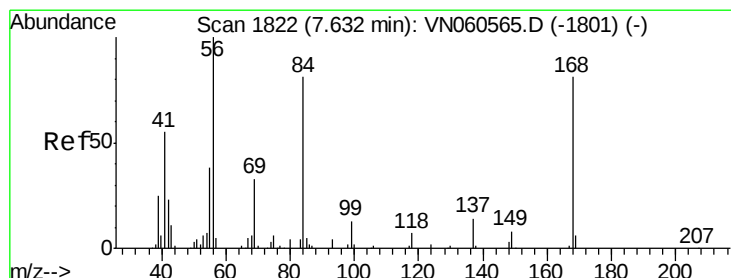
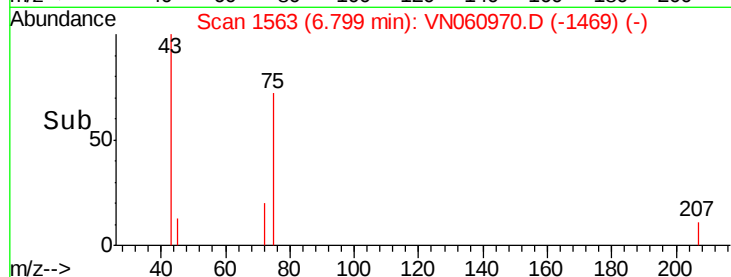
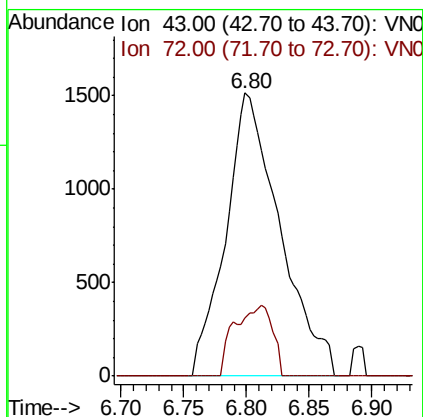
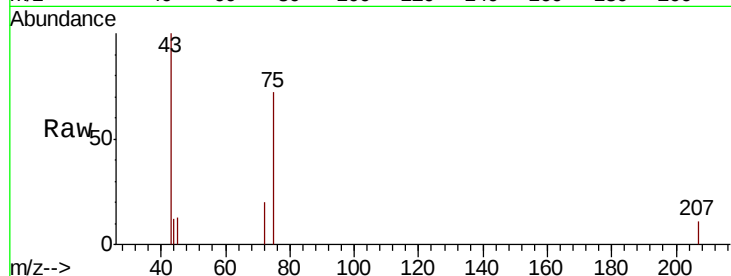




#25
2-Butanone
Concen: 3.781 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VN060970.D
Acq: 15 Apr 2020 18:30

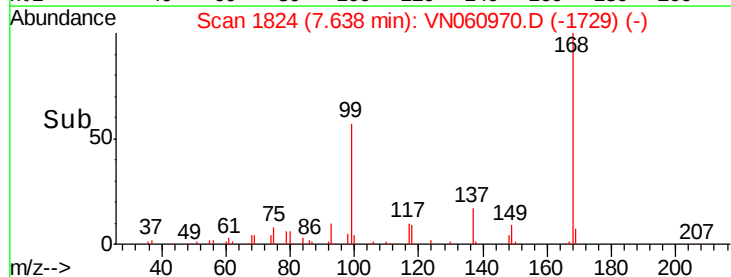
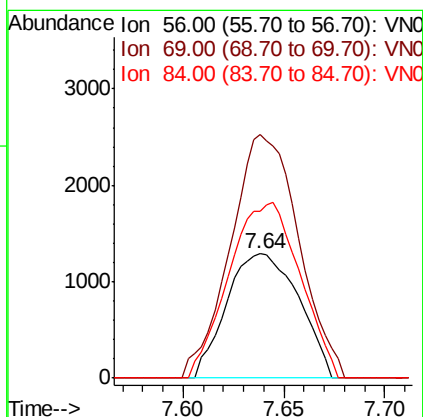
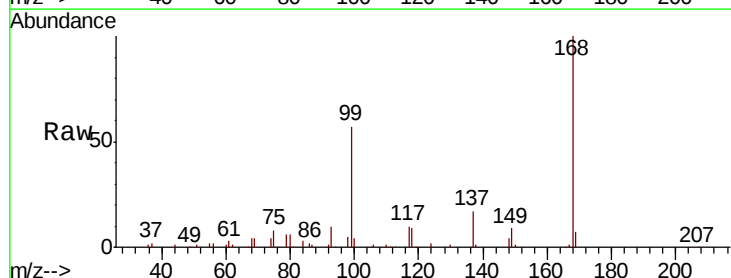
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 4554
Ion Ratio Lower Upper
43 100
72 20.4 20.4 30.6



#31
Cyclohexane
Concen: 0.948 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060970.D
Acq: 15 Apr 2020 18:30

Tgt Ion: 56 Resp: 3208
Ion Ratio Lower Upper
56 100
69 180.2 26.6 40.0#
84 134.5 64.3 96.5#





#33

1,2-Dichloroethane-d4

Concen: 49.288 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060970.D

Acq: 15 Apr 2020 18:30

Instrument :

MSVOA_N

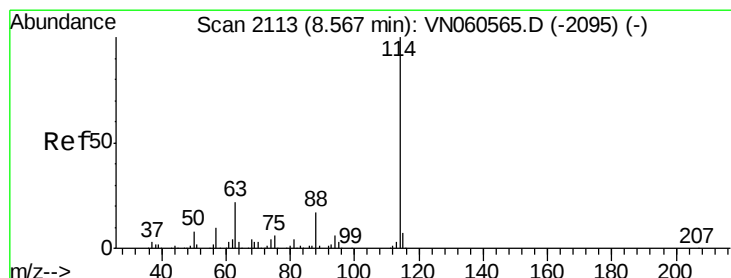
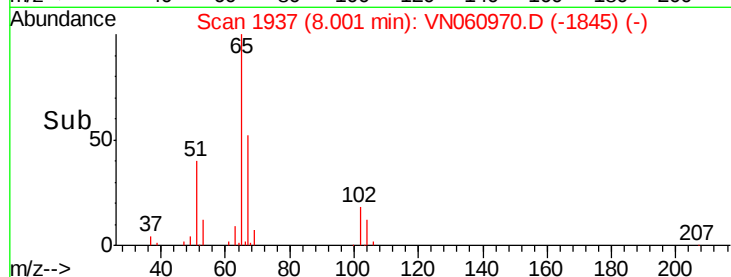
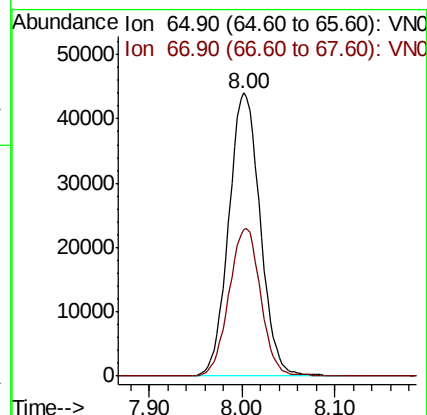
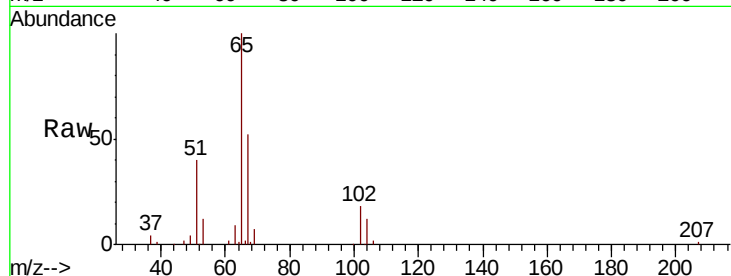
ClientSampleId :

Tot Ion: 65 Resp: 103575

Ion Ratio Lower Upper

65 100

67 52.6 0.0 107.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VN060970.D

Acq: 15 Apr 2020 18:30

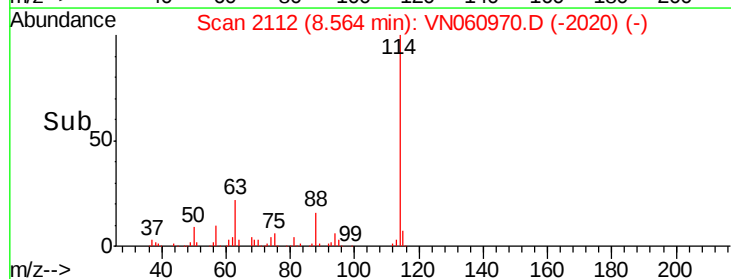
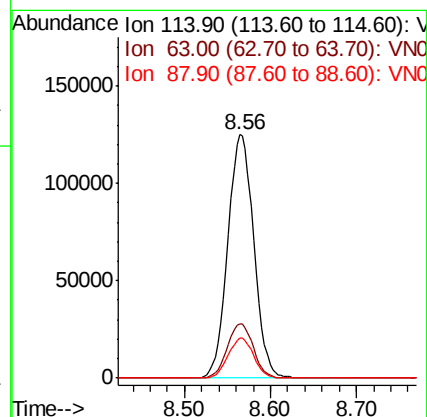
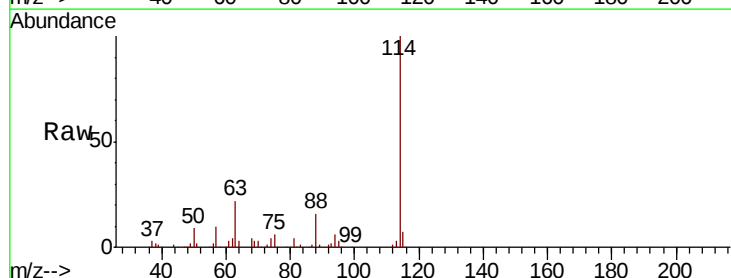
Tgt Ion: 114 Resp: 262592

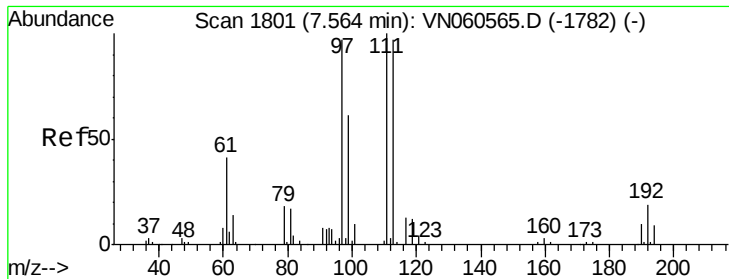
Ion Ratio Lower Upper

114 100

63 22.4 0.0 43.8

88 16.3 0.0 33.0

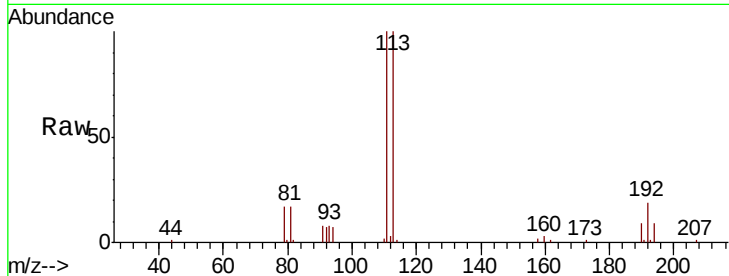




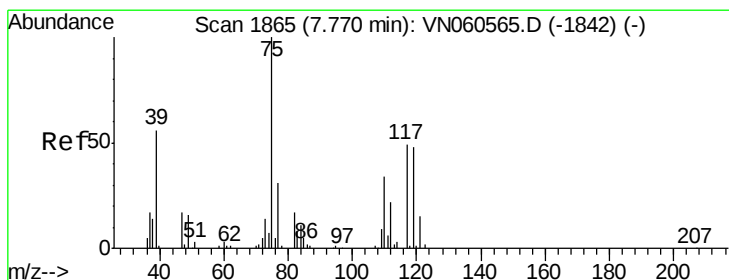
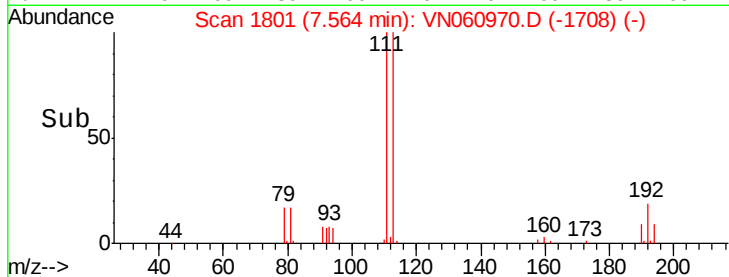
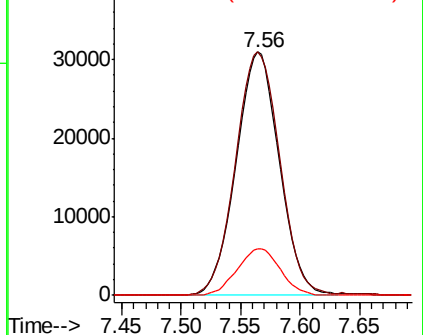
#35
 Dibromofluoromethane
 Concen: 49.093 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN060970.D
 Acq: 15 Apr 2020 18:30

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:113 Resp: 77950
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.9 124.3
 192 19.0 15.8 23.8

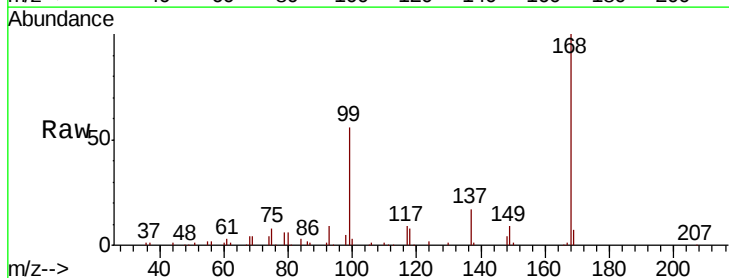


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

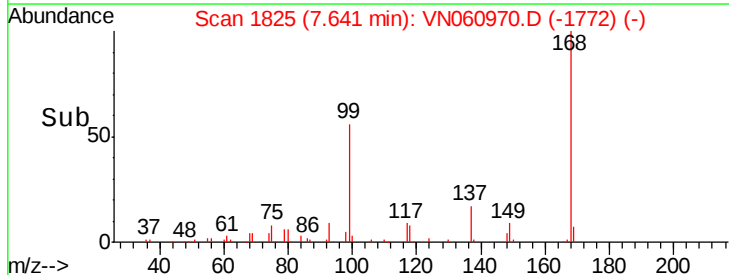
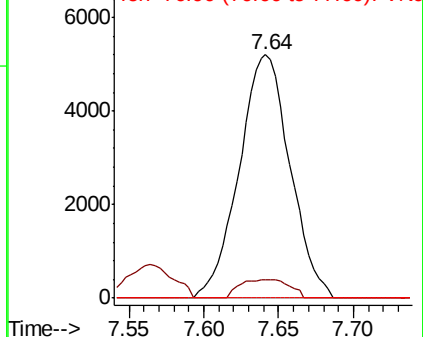


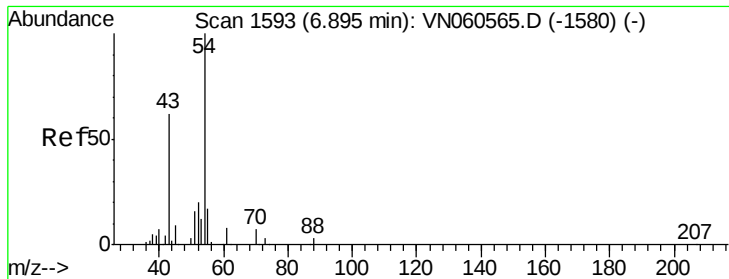
#36
 1,1-Dichloropropene
 Concen: 4.842 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060970.D
 Acq: 15 Apr 2020 18:30

Tgt Ion: 75 Resp: 12312
 Ion Ratio Lower Upper
 75 100
 110 7.4 16.9 50.6#
 77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V

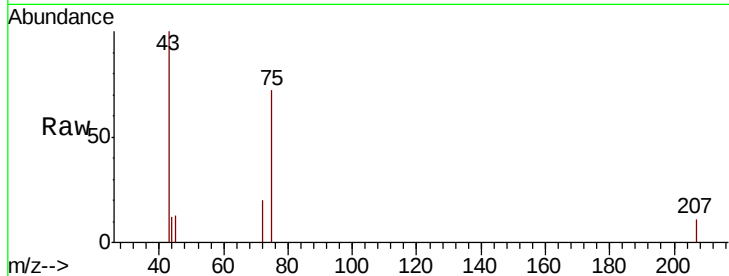




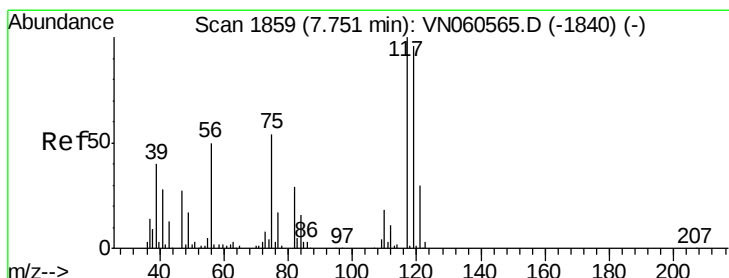
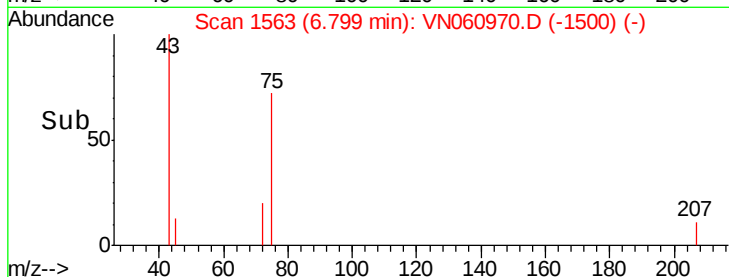
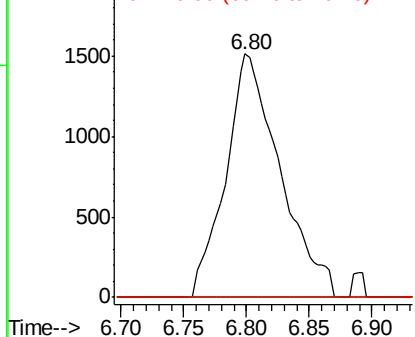
#37
Ethyl Acetate
Concen: 1.658 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. -0.10 min
Lab File: VN060970.D
Acq: 15 Apr 2020 18:30

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 4554
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.9 11.9#

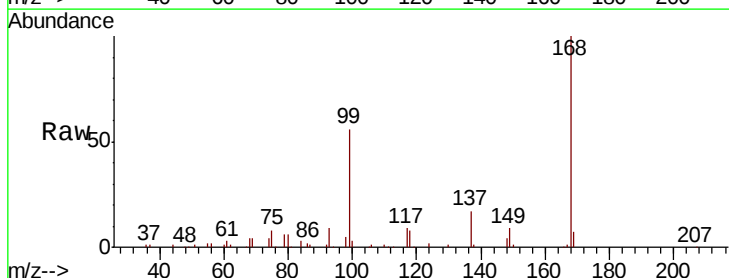


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

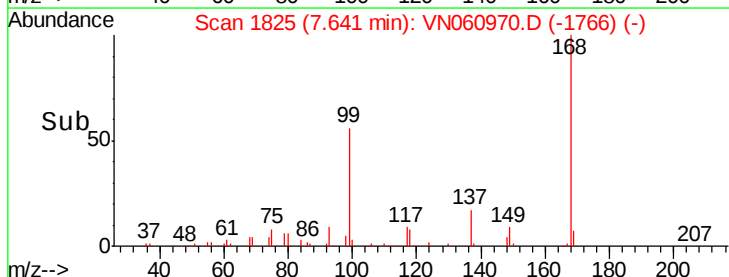
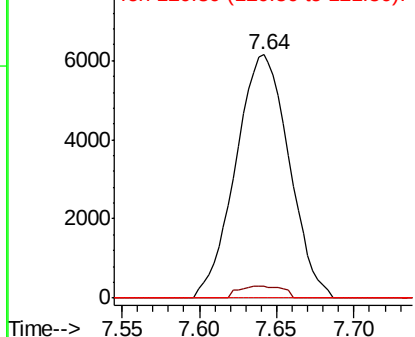


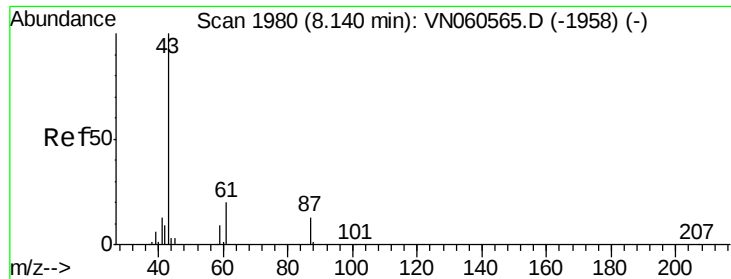
#38
Carbon Tetrachloride
Concen: 6.472 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060970.D
Acq: 15 Apr 2020 18:30

Tgt Ion: 117 Resp: 14748
Ion Ratio Lower Upper
117 100
119 4.7 76.2 114.2#
121 0.0 23.7 35.5#



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





#43

Isopropyl Acetate

Concen: 9.593 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060970.D

Acq: 15 Apr 2020 18:30

Instrument :

MSVOA_N

ClientSampled :

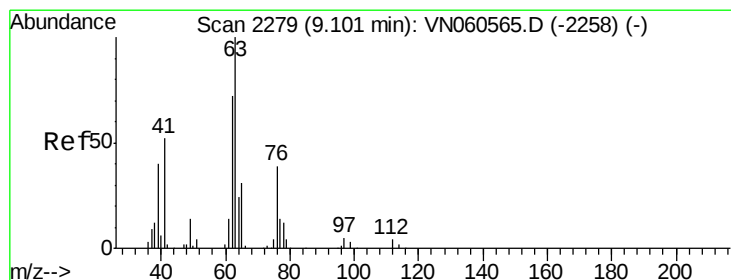
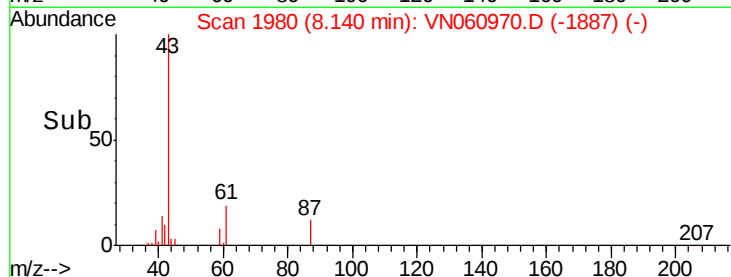
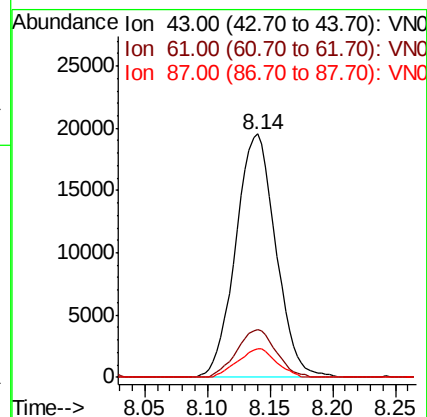
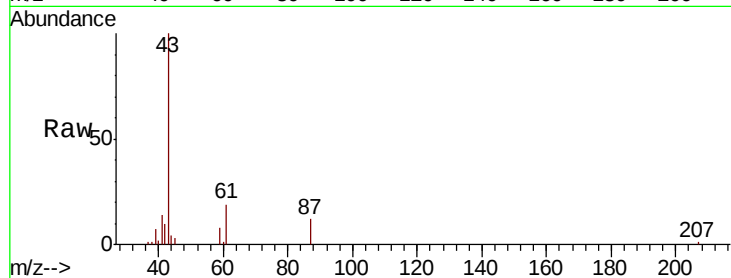
Tot Ion: 43 Resp: 43465

Ion Ratio Lower Upper

43 100

61 19.2 20.7 31.1#

87 11.2 9.8 14.8



#45

1,2-Dichloropropane

Concen: 0.355 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060970.D

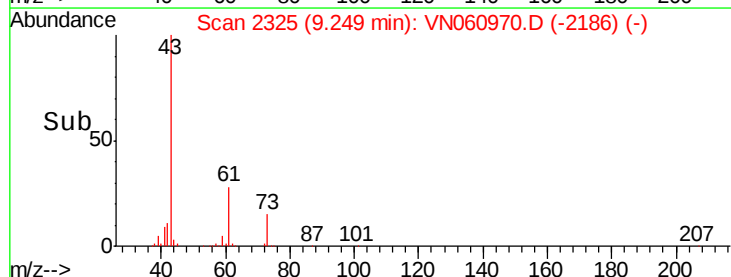
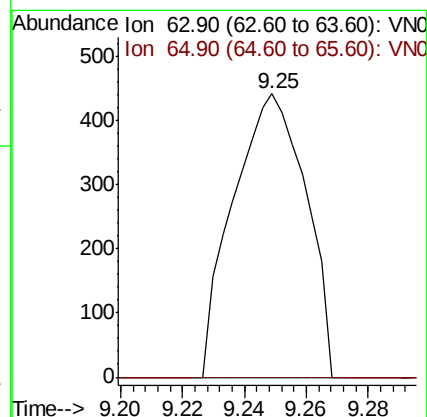
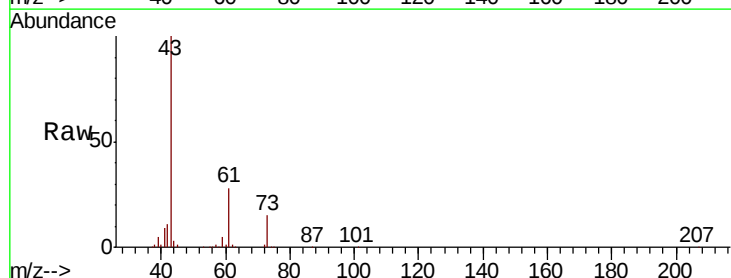
Acq: 15 Apr 2020 18:30

Tgt Ion: 63 Resp: 719

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#

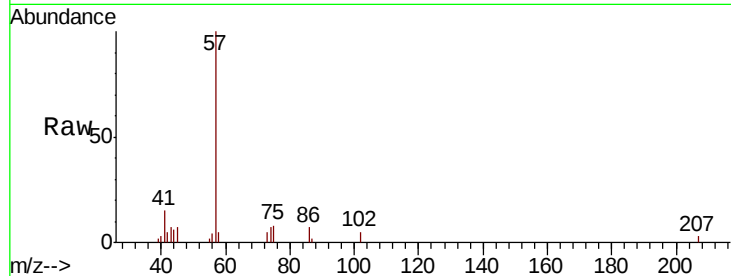




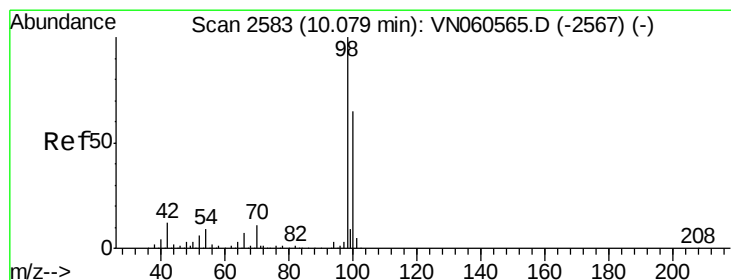
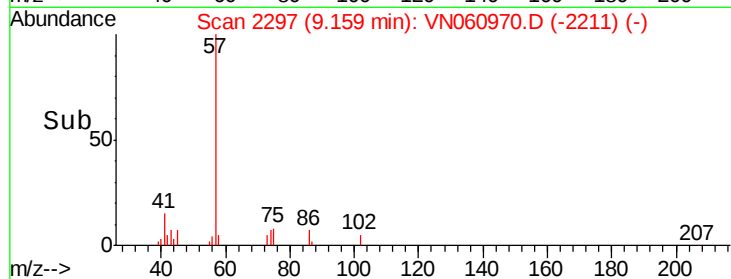
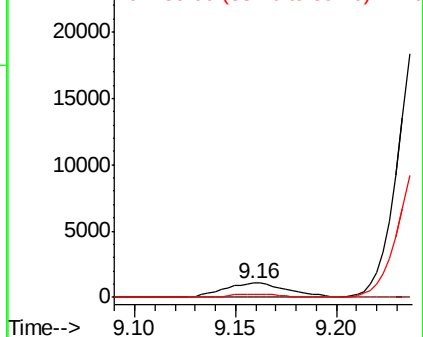
#48
Methvl methacrylate
Concen: 1.165 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060970.D
Acq: 15 Apr 2020 18:30

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 2351
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#

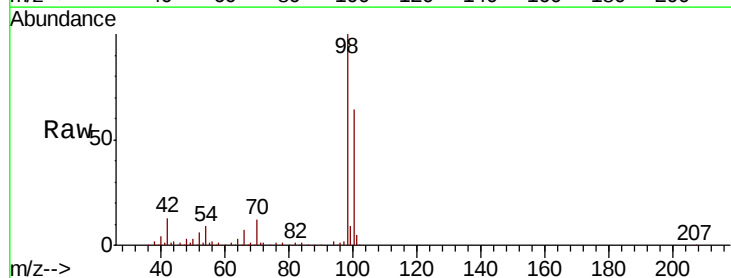


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

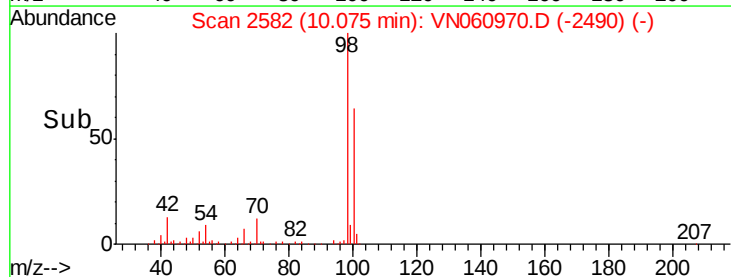
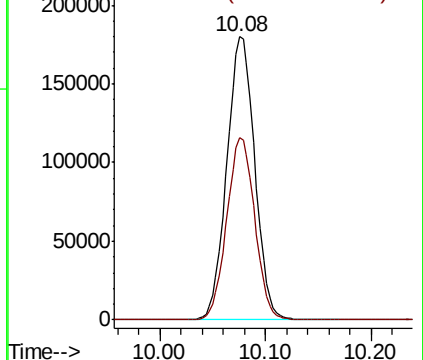


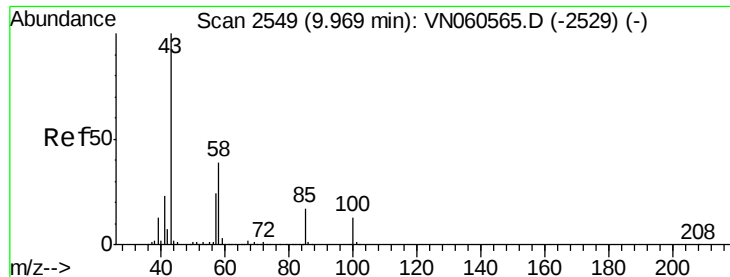
#50
Toluene-d8
Concen: 50.805 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060970.D
Acq: 15 Apr 2020 18:30

Tgt Ion: 98 Resp: 329501
Ion Ratio Lower Upper
98 100
100 64.6 51.8 77.8



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: 1.572 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060970.D

Acq: 15 Apr 2020 18:30

Instrument :

MSVOA_N

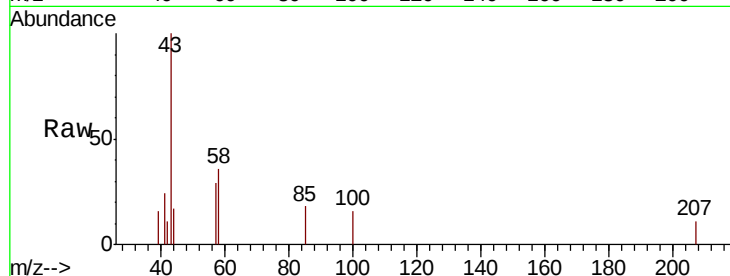
ClientSampled :

Tot Ion: 43 Resp: 4053

Ion Ratio Lower Upper

43 100

58 28.9 30.8 46.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

12000

10000

8000

6000

4000

2000

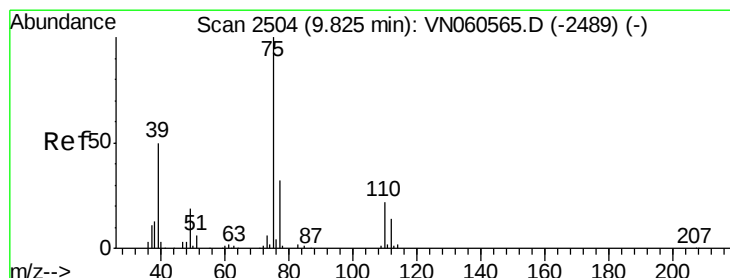
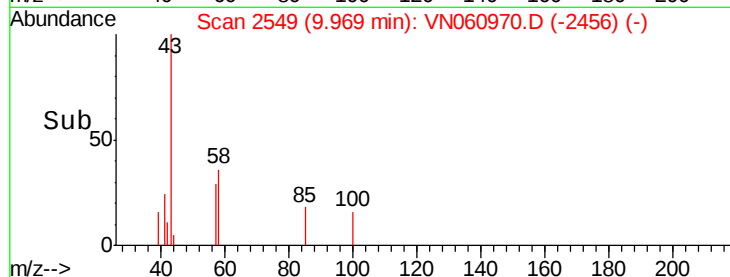
0

9.95

9.97

10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 5.397 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060970.D

Acq: 15 Apr 2020 18:30

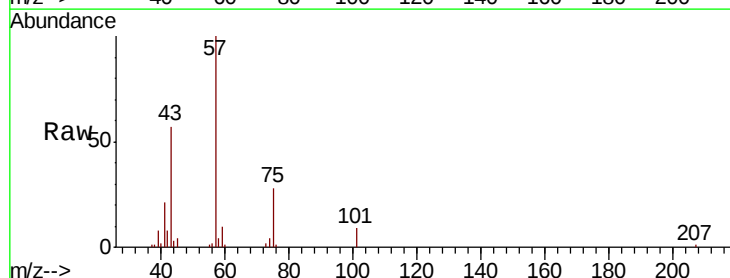
Tgt Ion: 75 Resp: 17306

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

39 29.5 40.2 60.4#



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

10000

5000

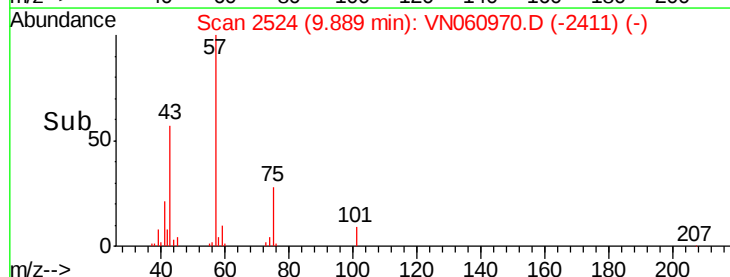
0

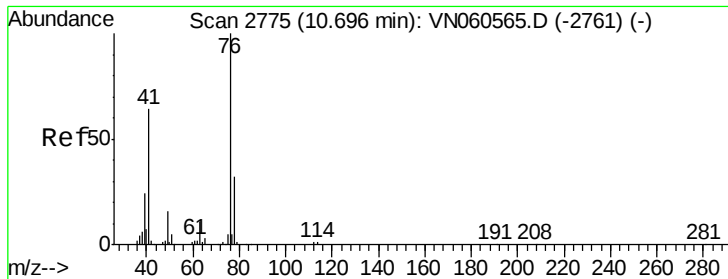
9.85

9.89

9.95

Time-->





#57

1,3-Dichloropropane

Concen: 0.689 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.05 min

Lab File: VN060970.D

Acq: 15 Apr 2020 18:30

Instrument :

MSVOA_N

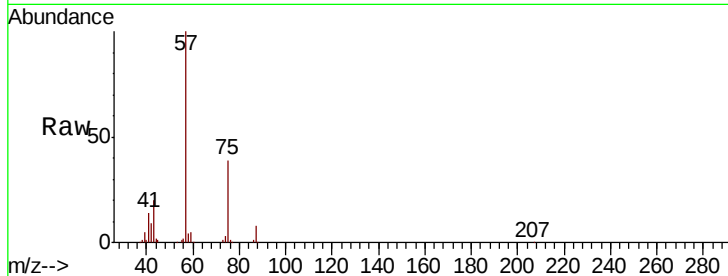
ClientSampled :

Tot Ion: 76 Resp: 2132

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.75

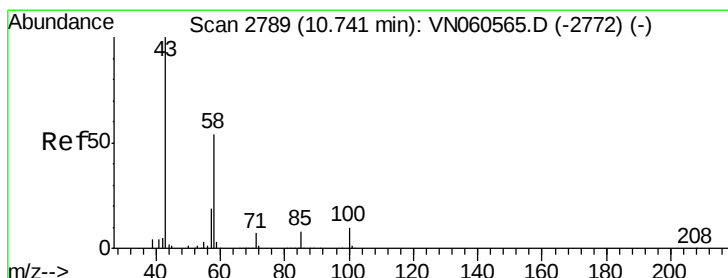
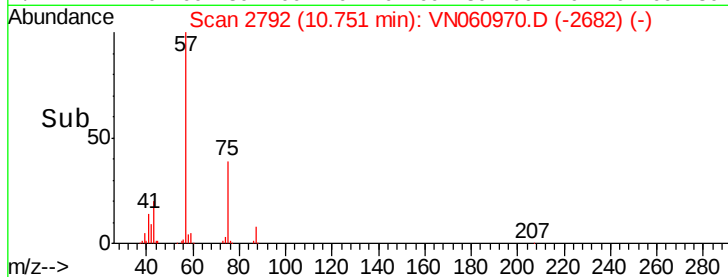
1500

1000

500

0

Time--> 10.70 10.75 10.80



#59

2-Hexanone

Concen: 18.274 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060970.D

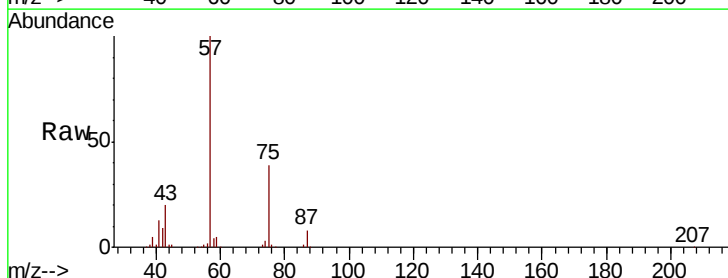
Acq: 15 Apr 2020 18:30

Tgt Ion: 43 Resp: 33941

Ion Ratio Lower Upper

43 100

58 18.5 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.75

25000

20000

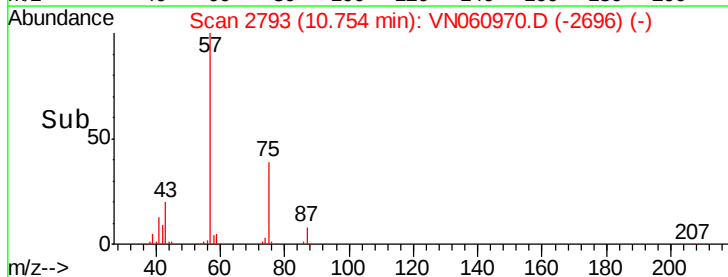
15000

10000

5000

0

Time--> 10.70 10.75 10.80





#62

4-Bromofluorobenzene

Concen: 52.138 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060970.D

Acq: 15 Apr 2020 18:30

Instrument :

MSVOA_N

ClientSampleId :

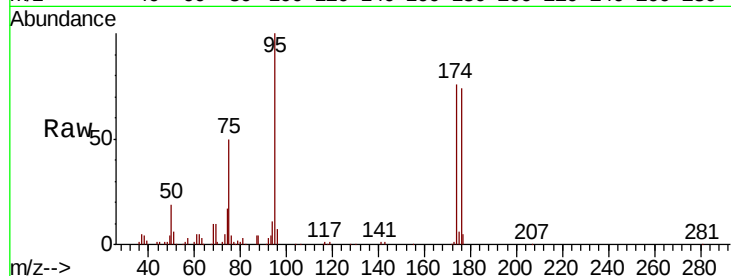
Tot Ion: 95 Resp: 123926

Ion Ratio Lower Upper

95 100

174 75.6 0.0 157.6

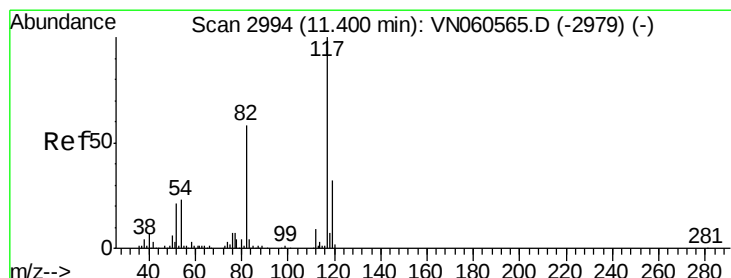
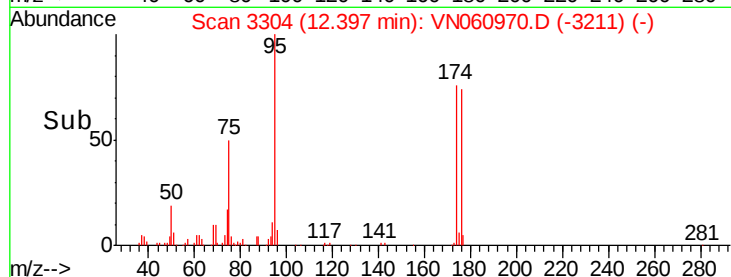
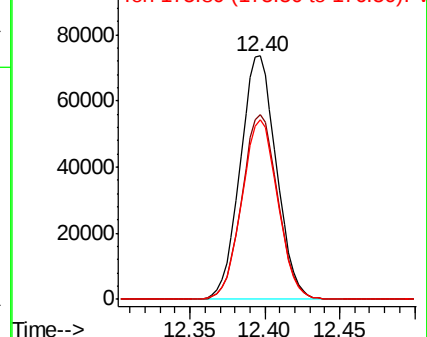
176 73.3 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060970.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060970.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060970.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060970.D

Acq: 15 Apr 2020 18:30

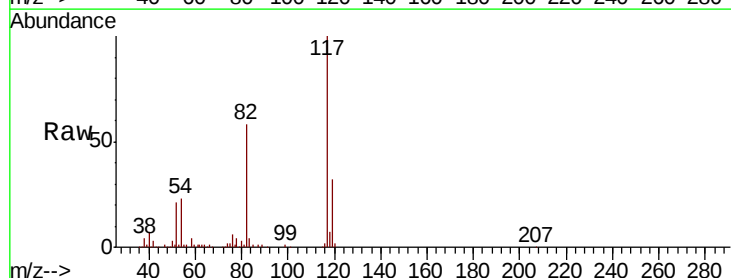
Tgt Ion: 117 Resp: 246566

Ion Ratio Lower Upper

117 100

82 58.5 46.7 70.1

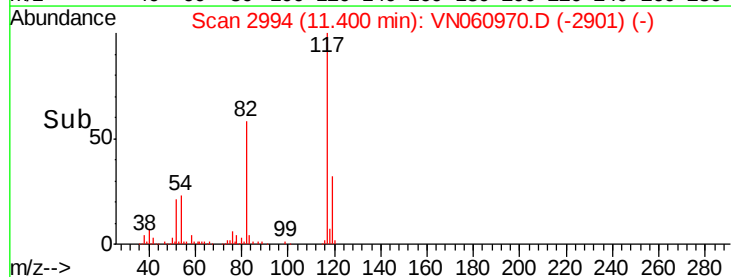
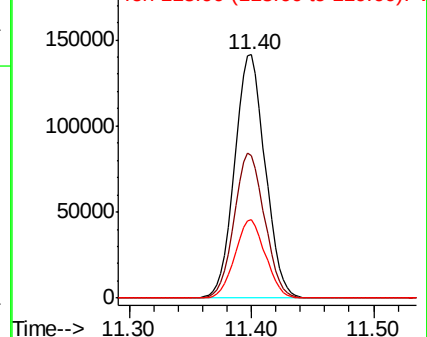
119 32.0 25.5 38.3

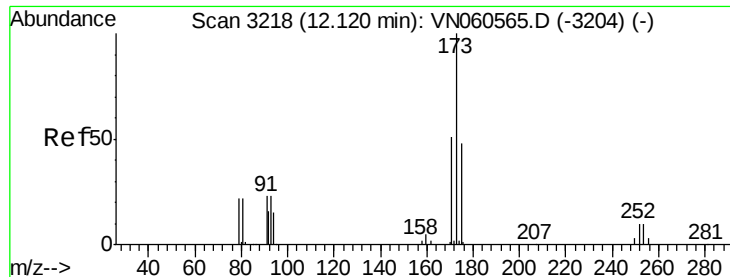


Abundance Ion 116.90 (116.60 to 117.60): VN060970.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060970.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060970.D (-2979) (-)





#71

Bromoform

Concen: 2.177 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060970.D

Acq: 15 Apr 2020 18:30

Instrument :

MSVOA_N

ClientSampleId :

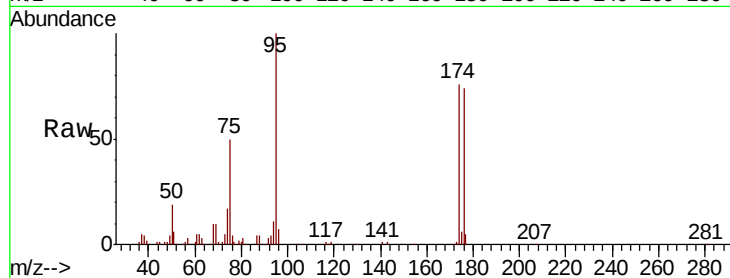
Tot Ion:173 Resp: 756

Ion Ratio Lower Upper

173 100

175 793.9 24.1 72.4#

254 0.0 0.0 0.0

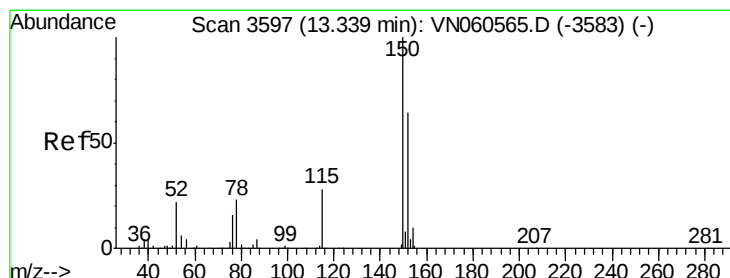
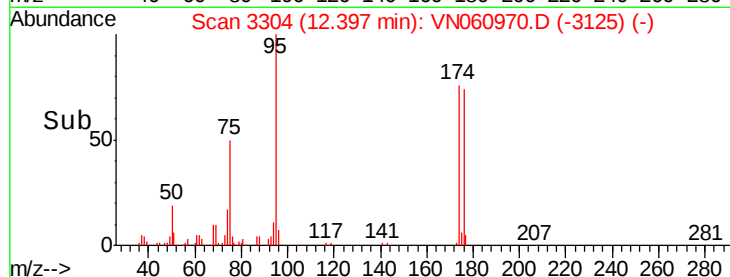
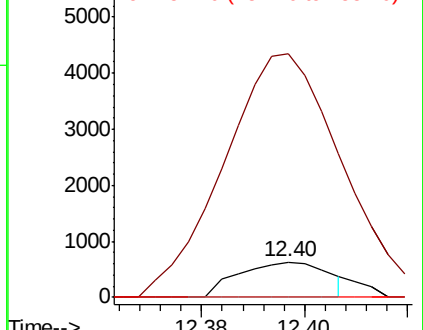


Abundance

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: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060970.D

Acq: 15 Apr 2020 18:30

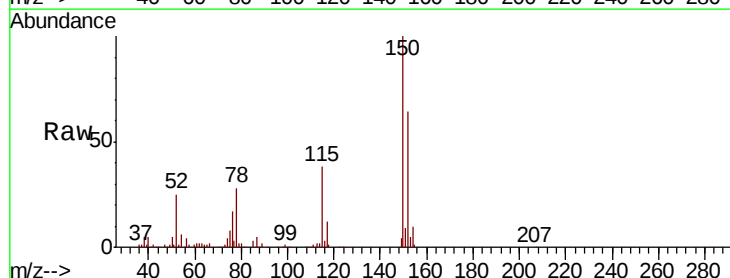
Tgt Ion:152 Resp: 113234

Ion Ratio Lower Upper

152 100

115 60.2 30.2 90.6

150 155.8 0.0 350.2

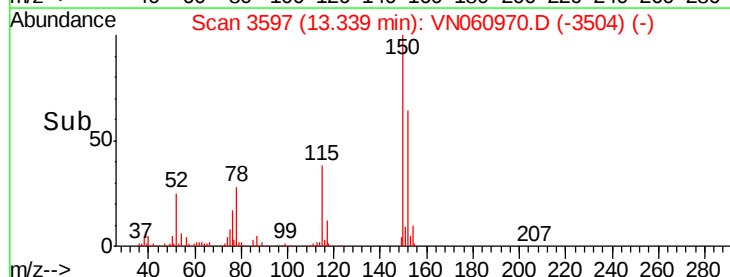
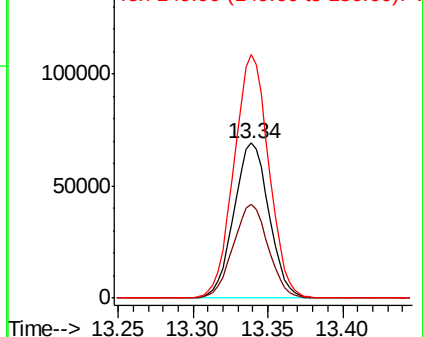


Abundance

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: 0.516 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060970.D

Acq: 15 Apr 2020 18:30

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2026

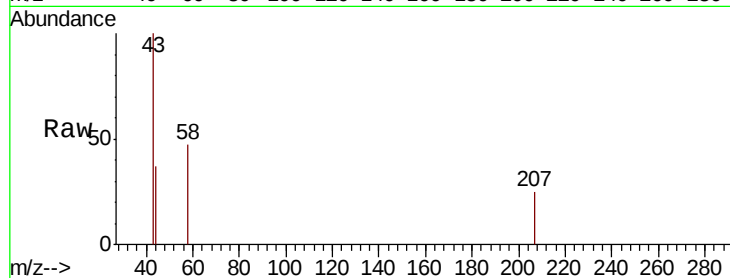
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

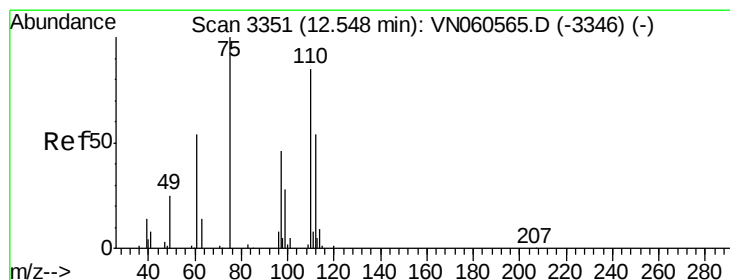
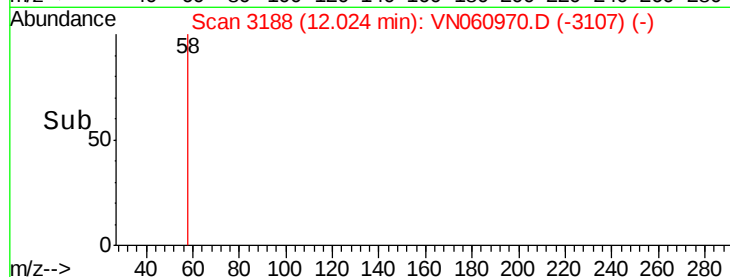
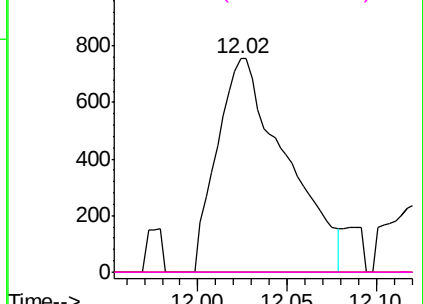


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 25.467 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060970.D

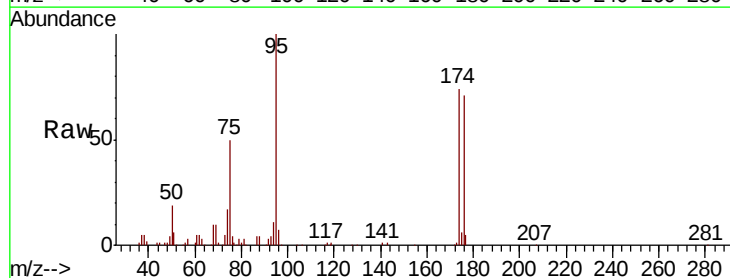
Acq: 15 Apr 2020 18:30

Tgt Ion: 75 Resp: 62226

Ion Ratio Lower Upper

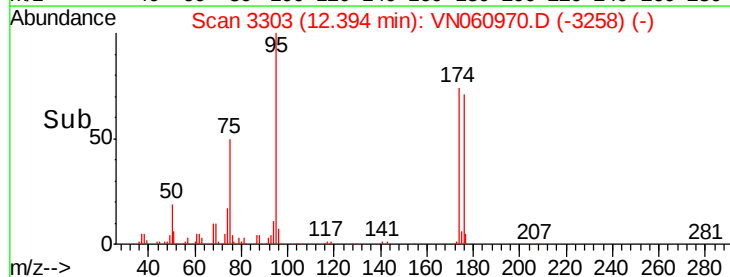
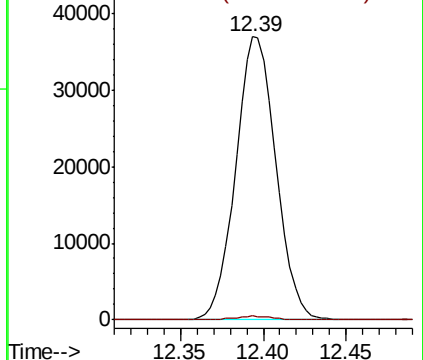
75 100

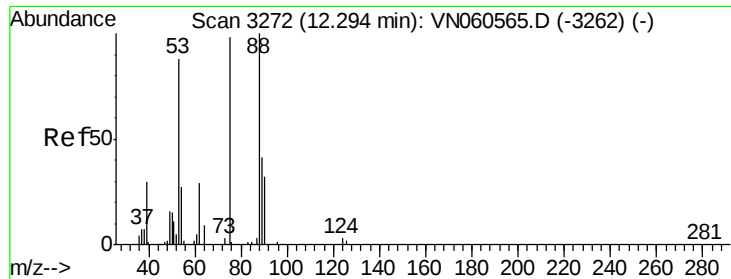
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 65.408 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060970.D

Acq: 15 Apr 2020 18:30

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 62226

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

