

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100220\
 Data File : VN063847.D
 Acq On : 3 Oct 2020 2:44
 Operator : JC/MD
 Sample : L4198-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-21

Quant Time: Oct 05 04:24:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	210994	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	409546	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	412875	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	161923	50.00	ug/l	0.00

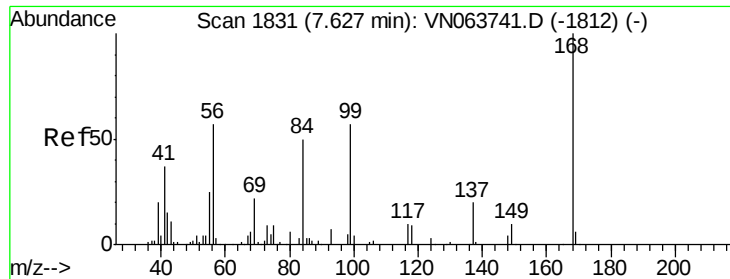
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	188517	54.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.16%	
35) Dibromofluoromethane	7.55	113	133036	46.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.62%	
50) Toluene-d8	10.06	98	513488	47.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.34%	
62) 4-Bromofluorobenzene	12.38	95	195733	48.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.66%	

Target Compounds

						Qvalue
11) Tert butyl alcohol	4.73	59	164	0.426	ug/l #	71
16) Acetone	3.78	43	12733	11.866	ug/l	94
17) Carbon Disulfide	4.00	76	132	0.723	ug/l #	76
18) Methyl Acetate	4.29	43	2384	0.856	ug/l #	69
20) Methylene Chloride	4.51	84	9944	4.136	ug/l	93
25) 2-Butanone	6.80	43	3150	2.071	ug/l #	51
29) Tetrahydrofuran	7.16	42	703	0.689	ug/l #	54
31) Cyclohexane	7.63	56	6519	1.611	ug/l #	38
36) 1,1-Dichloropropene	7.62	75	19319	4.656	ug/l #	49
38) Carbon Tetrachloride	7.62	117	24108	5.182	ug/l #	15
41) Methacrylonitrile	7.16	41	556	0.303	ug/l #	39
43) Isopropyl Acetate	8.13	43	73399	10.795	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1399	0.437	ug/l #	44
48) Methyl methacrylate	9.14	41	4830	1.438	ug/l #	12
49) 1,4-Dioxane	9.23	88	29	0.607	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	6991	1.752	ug/l	93
54) cis-1,3-Dichloropropene	9.87	75	28026	5.494	ug/l #	69
56) Ethyl methacrylate	10.52	69	1702	0.408	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	4105	0.825	ug/l #	43
59) 2-Hexanone	10.74	43	75833	25.583	ug/l #	53
74) N-amyl acetate	12.01	43	2555	2.661	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	112440	31.501	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	112440	90.728	ug/l #	6
95) Naphthalene	15.11	128	63	1.931	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063847.D

Acq: 3 Oct 2020 2:44

Instrument :

MSVOA_N

ClientSampled :

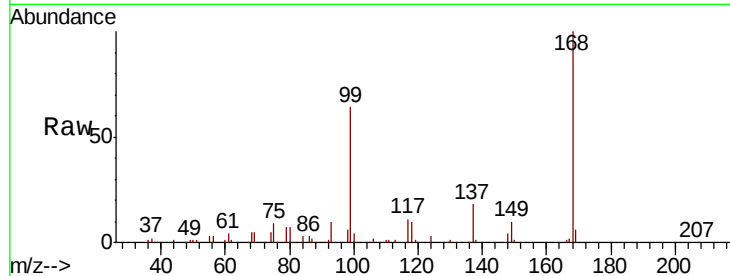
RO-21

Tot Ion:168 Resp: 210994

Ion Ratio Lower Upper

168 100

99 63.6 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

80000

60000

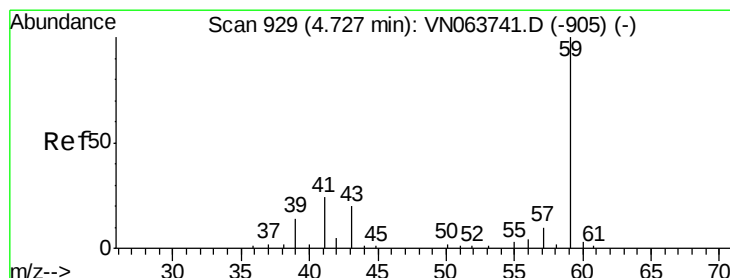
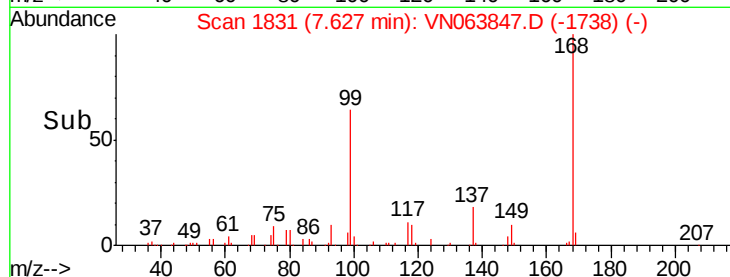
40000

20000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.426 ug/l

RT: 4.73 min Scan# 929

Delta R.T. 0.00 min

Lab File: VN063847.D

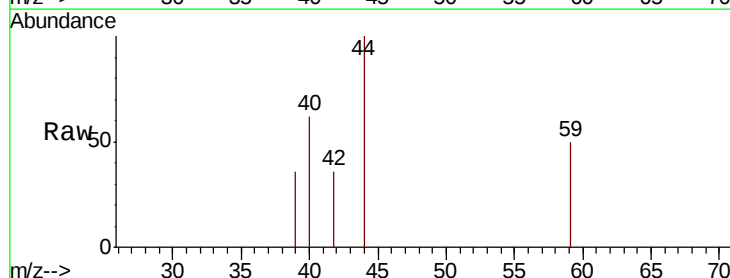
Acq: 3 Oct 2020 2:44

Tgt Ion: 59 Resp: 164

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.73

300

250

200

150

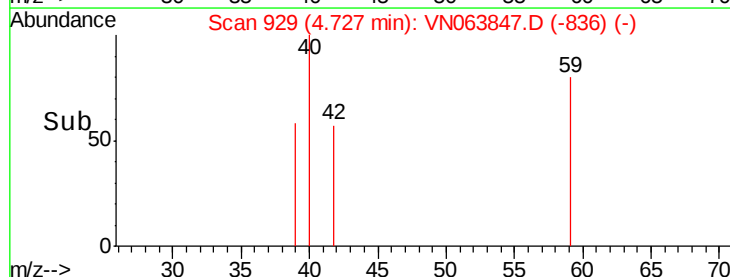
100

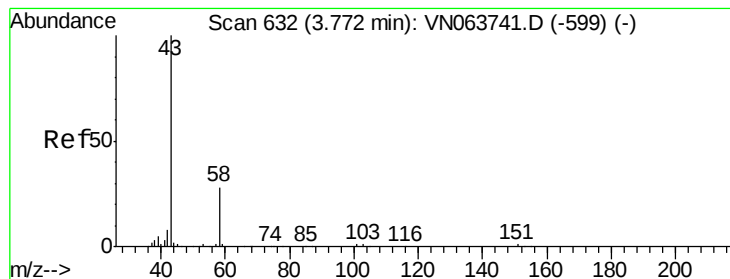
50

0

4.72 4.73 4.74

Time-->





#16

Acetone

Concen: 11.866 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN063847.D

Acq: 3 Oct 2020 2:44

Instrument :

MSVOA_N

ClientSampleId :

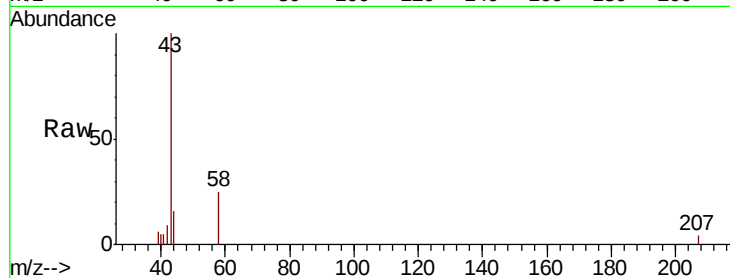
RO-21

Tot Ion: 43 Resp: 12733

Ion Ratio Lower Upper

43 100

58 24.7 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN063847.D (-599) (-)

Ion 58.00 (57.70 to 58.70): VN063847.D (-599) (-)

3.78

5000

4000

3000

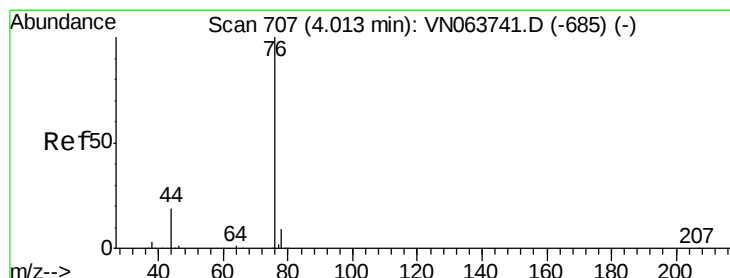
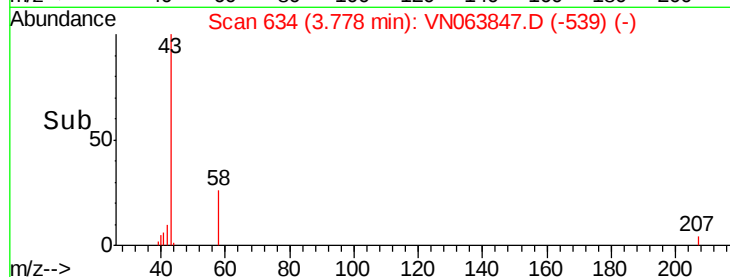
2000

1000

0

Time-->

3.70 3.75 3.80 3.85



#17

Carbon Disulfide

Concen: 0.723 ug/l

RT: 4.00 min Scan# 704

Delta R.T. -0.01 min

Lab File: VN063847.D

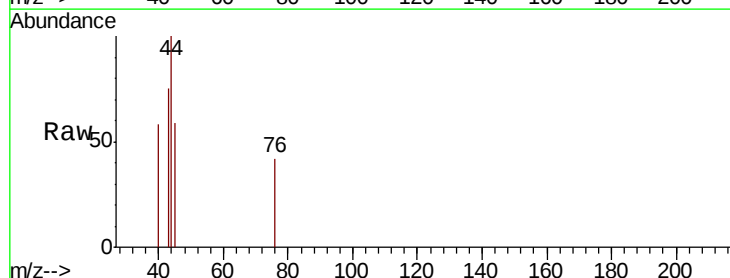
Acq: 3 Oct 2020 2:44

Tgt Ion: 76 Resp: 132

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN063847.D (-614) (-)

Ion 77.90 (77.60 to 78.60): VN063847.D (-614) (-)

4.00

200

150

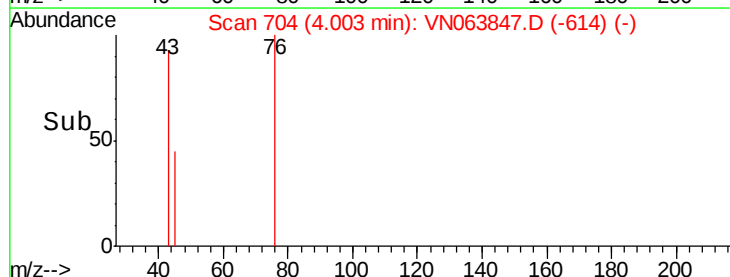
100

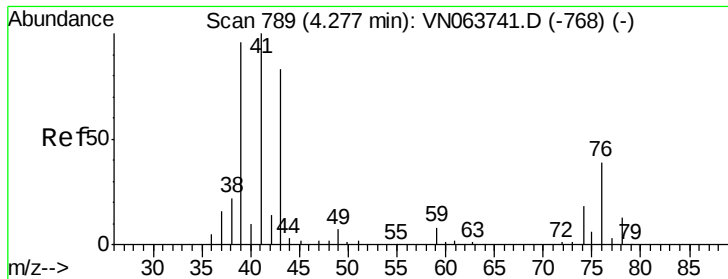
50

0

Time-->

3.98 3.99 4.00 4.01 4.02

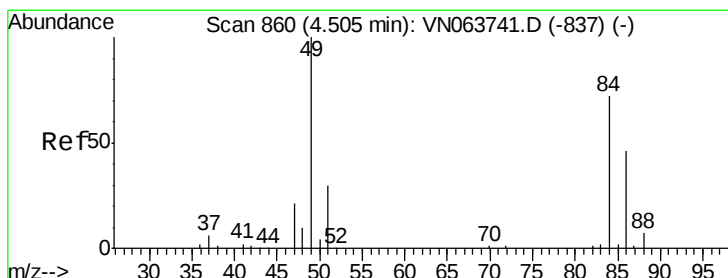
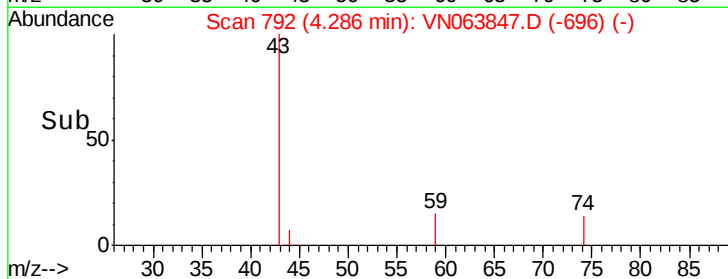
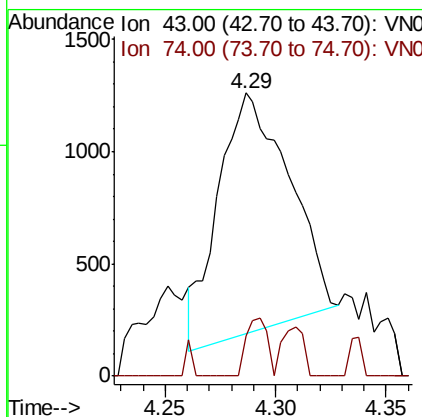
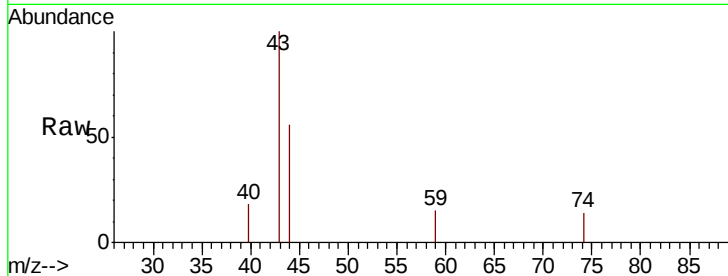




#18
Methvl Acetate
Concen: 0.856 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN063847.D
Acq: 3 Oct 2020 2:44

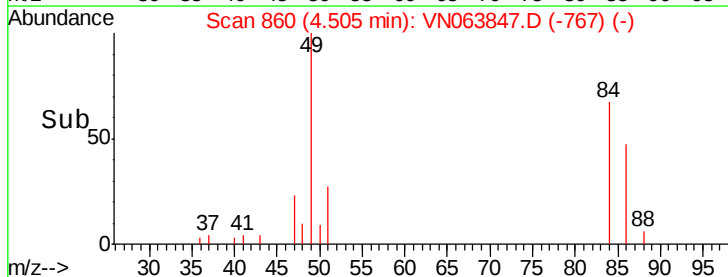
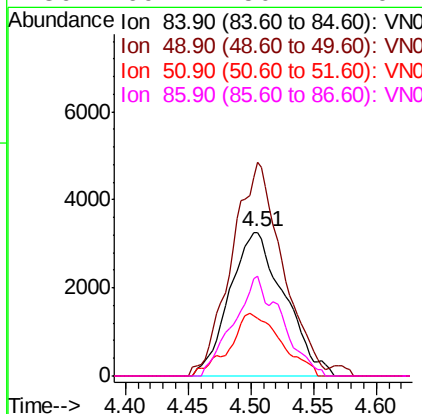
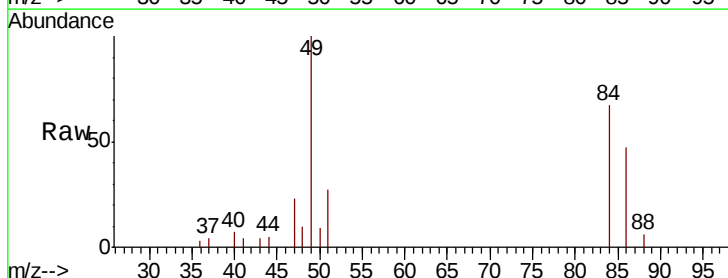
Instrument :
MSVOA_N
ClientSampled :
RO-21

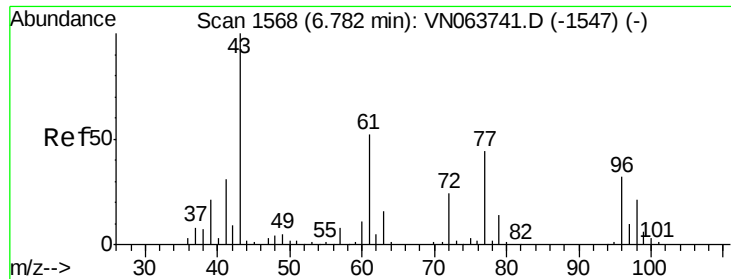
Tot Ion: 43 Resp: 2384
Ion Ratio Lower Upper
43 100
74 7.1 17.4 26.2#



#20
Methylene Chloride
Concen: 4.136 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063847.D
Acq: 3 Oct 2020 2:44

Tgt Ion: 84 Resp: 9944
Ion Ratio Lower Upper
84 100
49 148.4 110.4 165.6
51 40.0 33.3 49.9
86 69.4 50.7 76.1

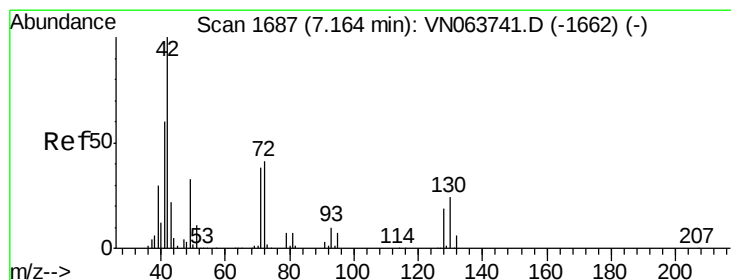
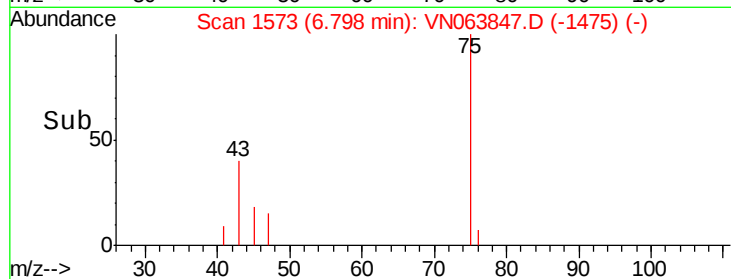
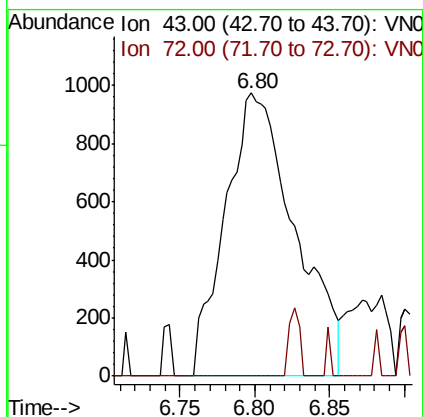
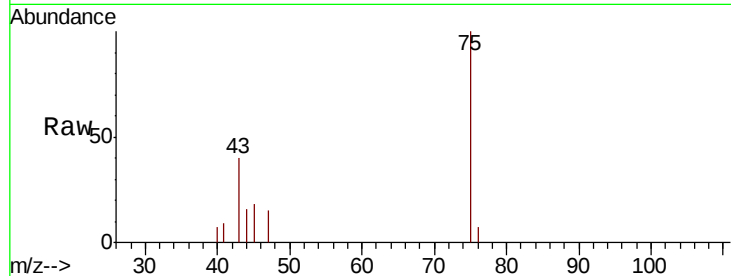




#25
2-Butanone
Concen: 2.071 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.02 min
Lab File: VN063847.D
Acq: 3 Oct 2020 2:44

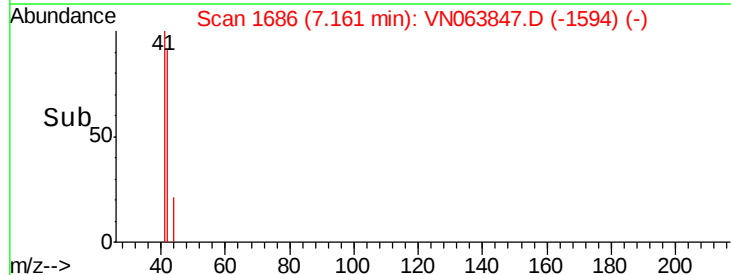
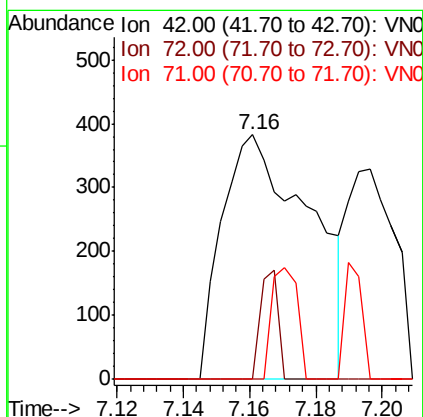
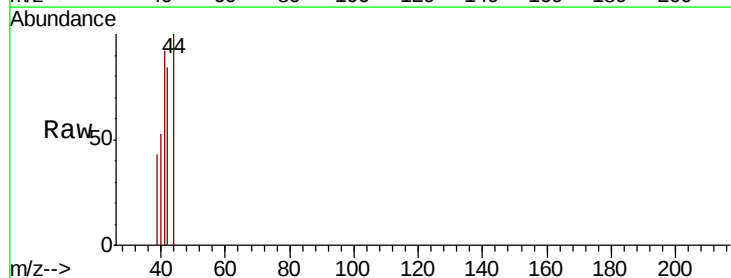
Instrument :
MSVOA_N
ClientSampled :
RO-21

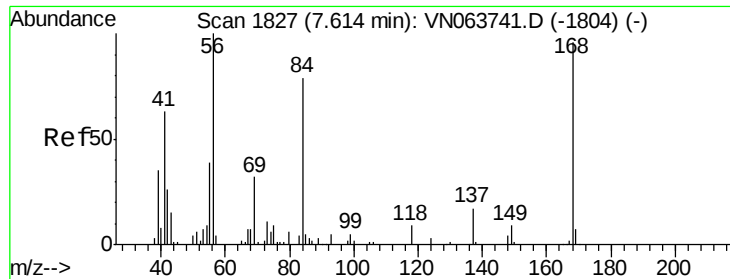
Tot Ion: 43 Resp: 3150
Ion Ratio Lower Upper
43 100
72 0.0 19.3 28.9#



#29
Tetrahydrofuran
Concen: 0.689 ug/l
RT: 7.16 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VN063847.D
Acq: 3 Oct 2020 2:44

Tgt Ion: 42 Resp: 703
Ion Ratio Lower Upper
42 100
72 9.0 32.8 49.2#
71 13.2 30.6 45.8#

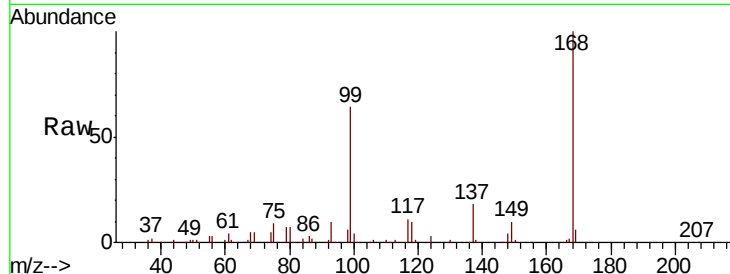




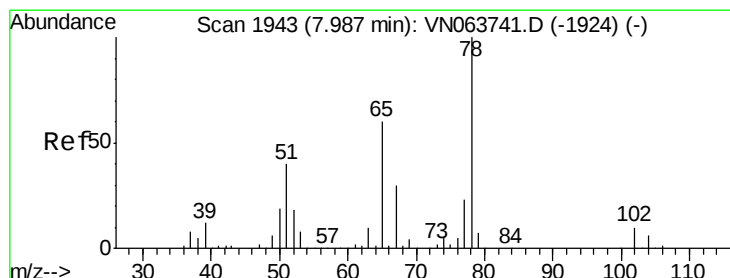
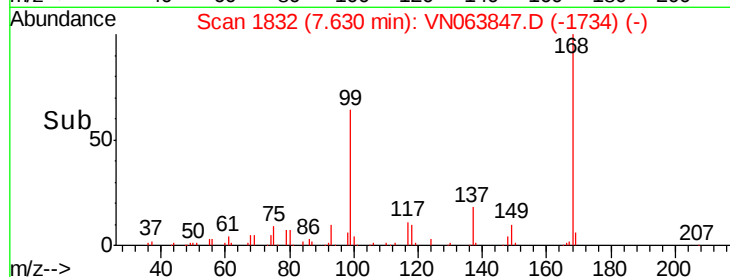
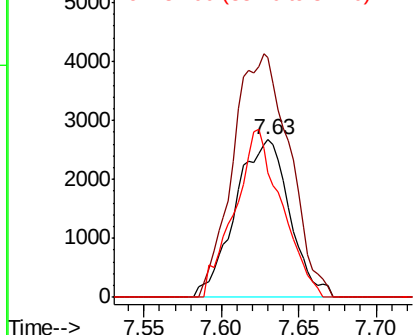
#31
Cyclohexane
Concen: 1.611 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN063847.D
Acq: 3 Oct 2020 2:44

Instrument :
MSVOA_N
ClientSampled :
RO-21

Tot Ion: 56 Resp: 6519
Ion Ratio Lower Upper
56 100
69 152.1 25.4 38.2#
84 78.6 63.3 94.9

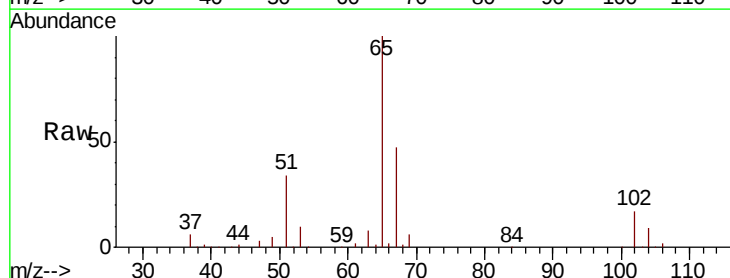


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

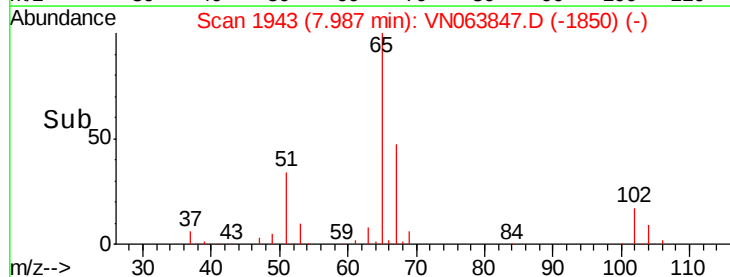
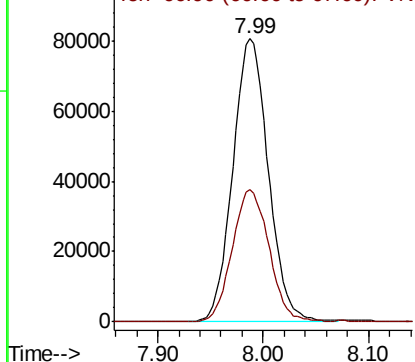


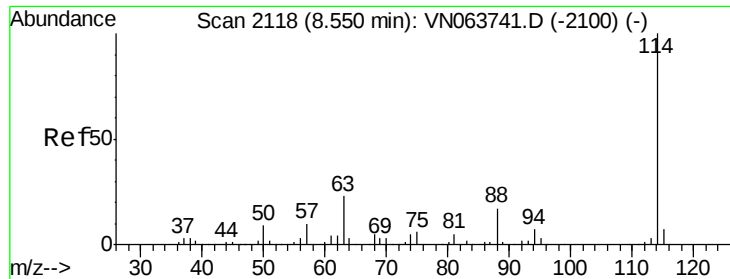
#33
1,2-Dichloroethane-d4
Concen: 54.082 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN063847.D
Acq: 3 Oct 2020 2:44

Tgt Ion: 65 Resp: 188517
Ion Ratio Lower Upper
65 100
67 48.4 0.0 99.6



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

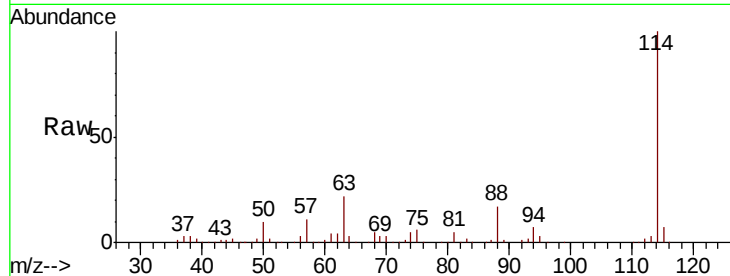




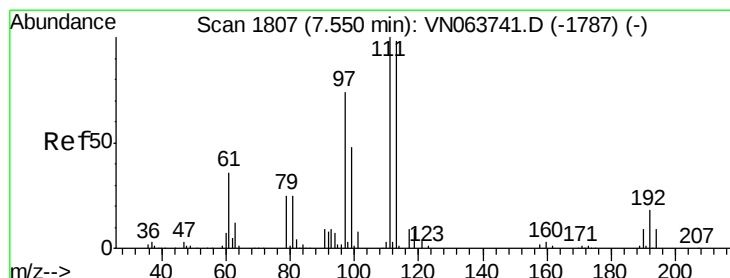
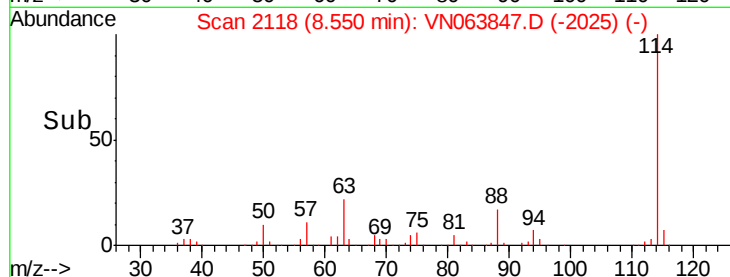
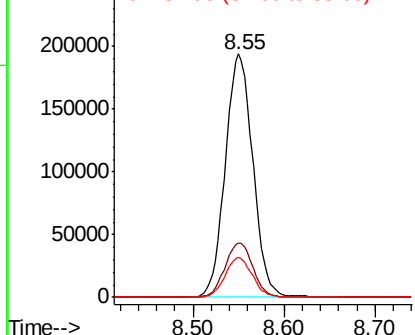
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VN063847.D
Acq: 3 Oct 2020 2:44

Instrument :
MSVOA_N
ClientSampled :
RO-21

Tot Ion:114 Resp: 409546
Ion Ratio Lower Upper
114 100
63 22.2 0.0 45.0
88 16.6 0.0 34.0

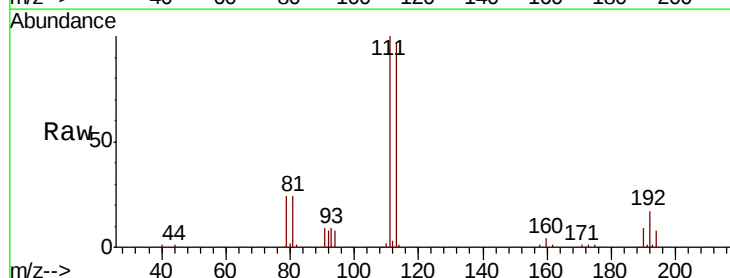


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

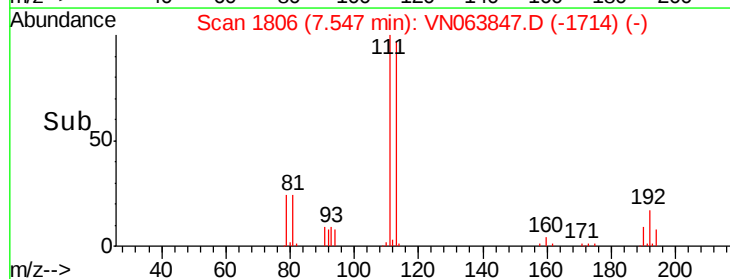
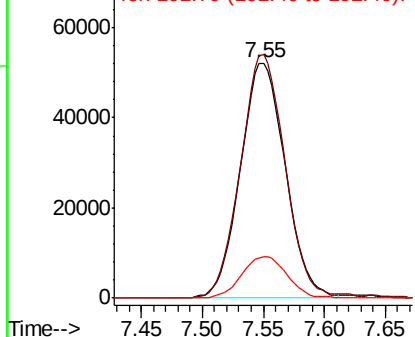


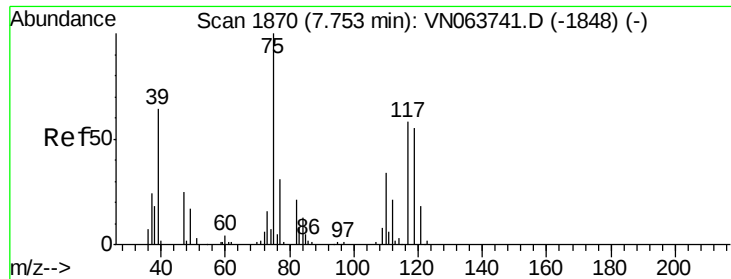
#35
Dibromofluoromethane
Concen: 46.815 ug/l
RT: 7.55 min Scan# 1806
Delta R.T. -0.00 min
Lab File: VN063847.D
Acq: 3 Oct 2020 2:44

Tgt Ion:113 Resp: 133036
Ion Ratio Lower Upper
113 100
111 102.8 81.8 122.8
192 18.0 14.2 21.2



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: 4.656 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063847.D

Acq: 3 Oct 2020 2:44

Instrument :

MSVOA_N

ClientSampled :

RO-21

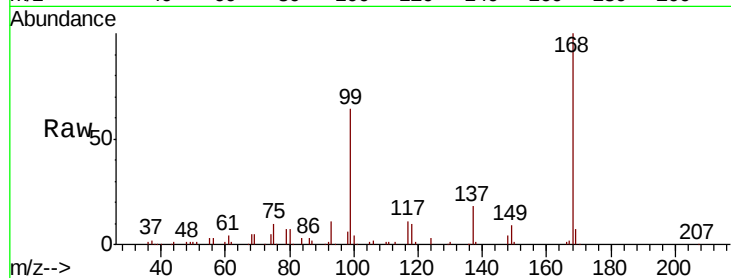
Tot Ion: 75 Resp: 19319

Ion Ratio Lower Upper

75 100

110 7.2 16.9 50.6#

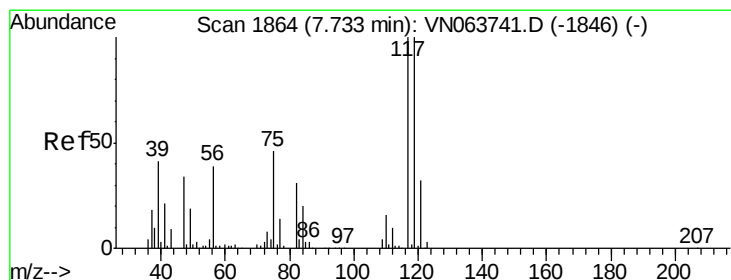
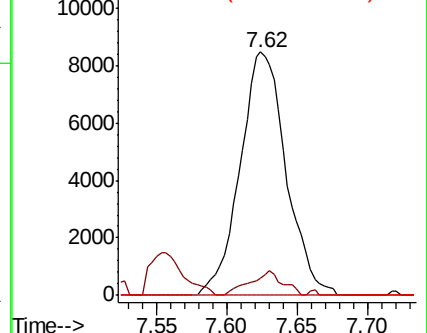
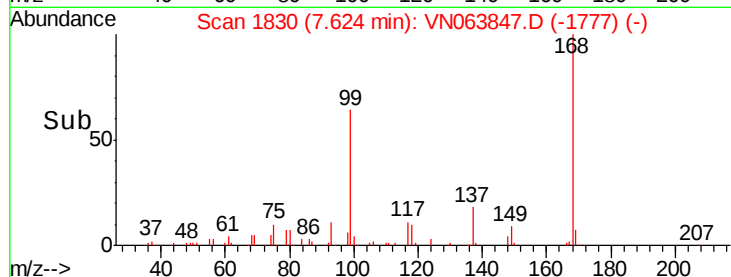
77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VN063847.D (-1777) (-)

Ion 109.90 (109.60 to 110.60): VN063847.D (-1777) (-)

Ion 76.90 (76.60 to 77.60): VN063847.D (-1777) (-)



#38

Carbon Tetrachloride

Concen: 5.182 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063847.D

Acq: 3 Oct 2020 2:44

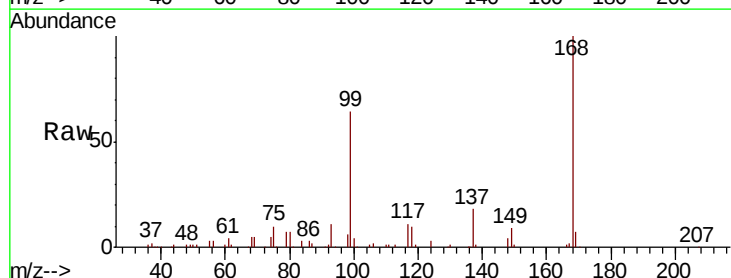
Tgt Ion: 117 Resp: 24108

Ion Ratio Lower Upper

117 100

119 6.0 80.1 120.1#

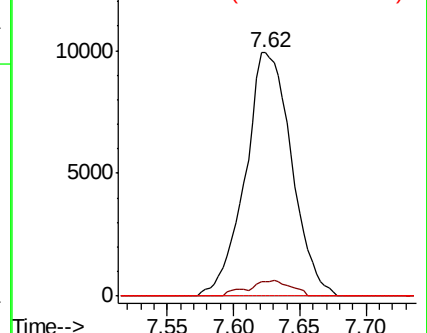
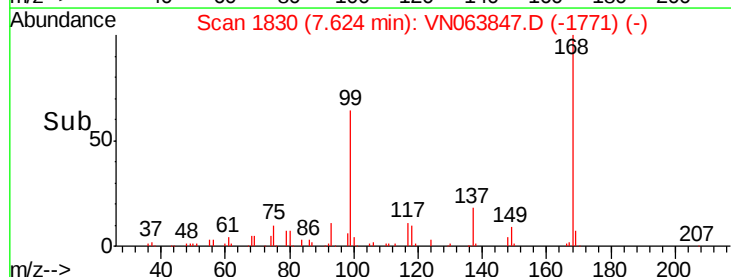
121 0.0 25.7 38.5#

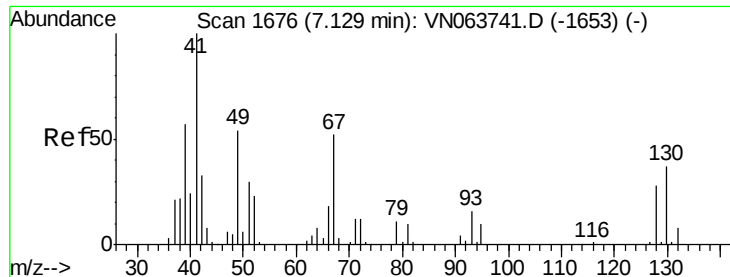


Abundance Ion 116.80 (116.50 to 117.50): VN063847.D (-1771) (-)

Ion 118.80 (118.50 to 119.50): VN063847.D (-1771) (-)

Ion 120.80 (120.50 to 121.50): VN063847.D (-1771) (-)

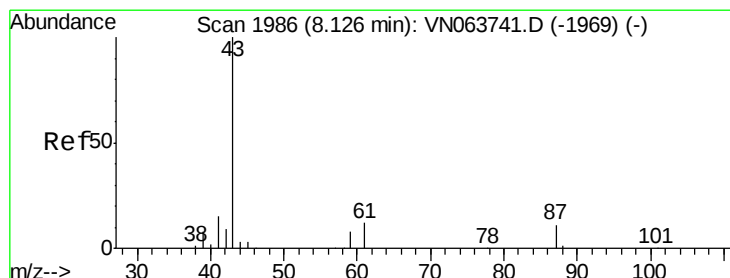
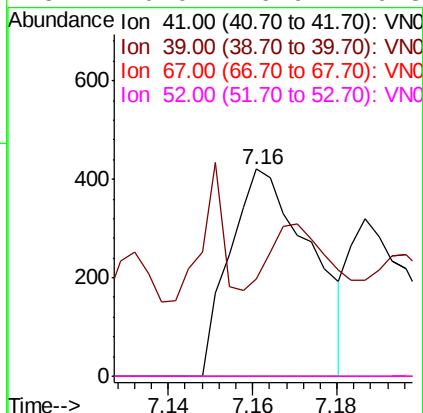
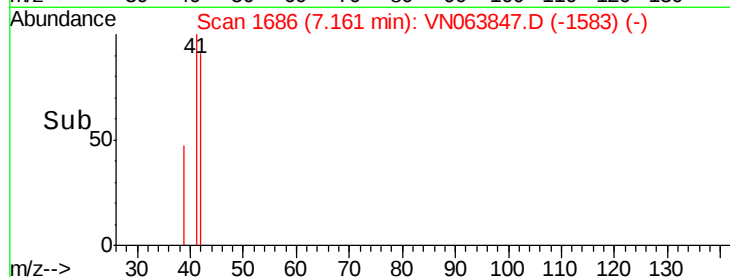
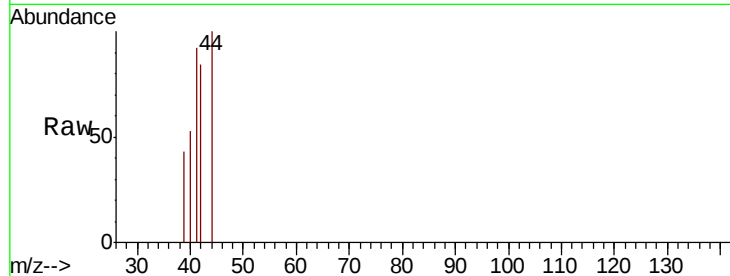




#41
Methacrylonitrile
Concen: 0.303 ug/l
RT: 7.16 min Scan# 1686
Delta R.T. 0.03 min
Lab File: VN063847.D
Acq: 3 Oct 2020 2:44

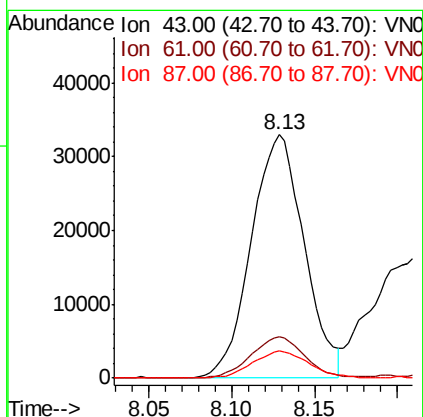
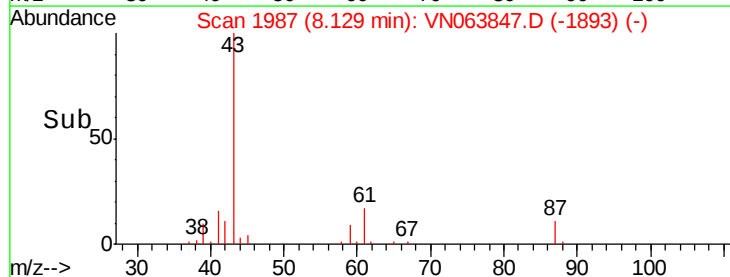
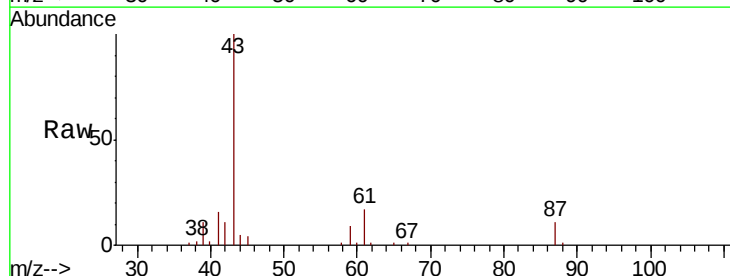
Instrument :
MSVOA_N
ClientSampled :
RO-21

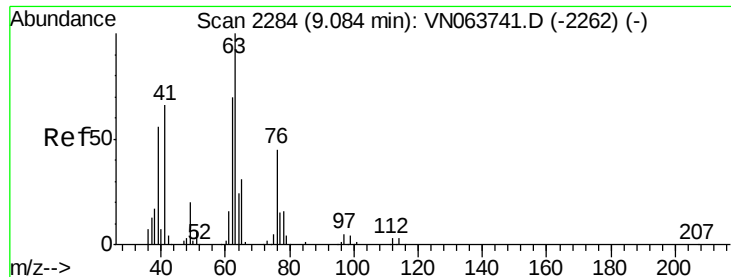
Tot Ion: 41 Resp: 556
Ion Ratio Lower Upper
41 100
39 33.5 42.5 63.7#
67 0.0 57.4 86.2#
52 0.0 26.9 40.3#



#43
Isopropyl Acetate
Concen: 10.795 ug/l
RT: 8.13 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN063847.D
Acq: 3 Oct 2020 2:44

Tgt Ion: 43 Resp: 73399
Ion Ratio Lower Upper
43 100
61 17.1 14.2 21.4
87 11.7 9.0 13.6





#45

1,2-Dichloropropane

Concen: 0.437 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN063847.D

Acq: 3 Oct 2020 2:44

Instrument :

MSVOA_N

ClientSampleId :

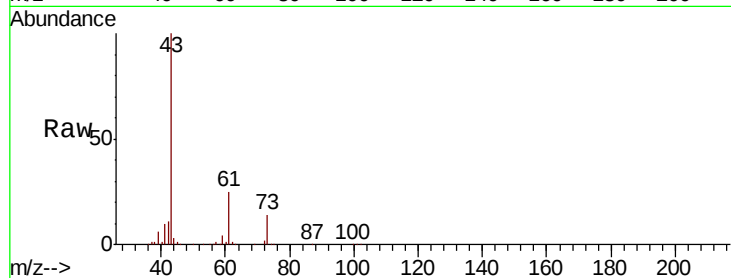
RO-21

Tot Ion: 63 Resp: 1399

Ion Ratio Lower Upper

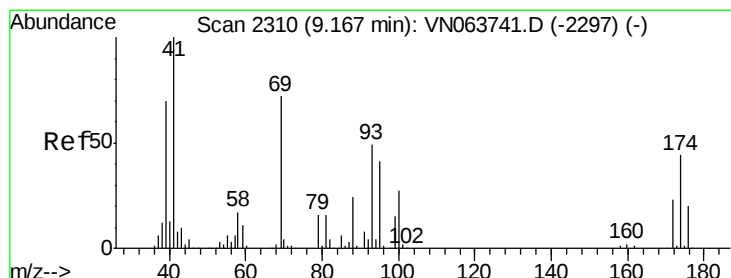
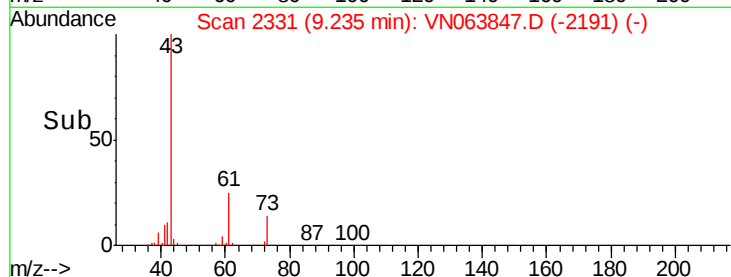
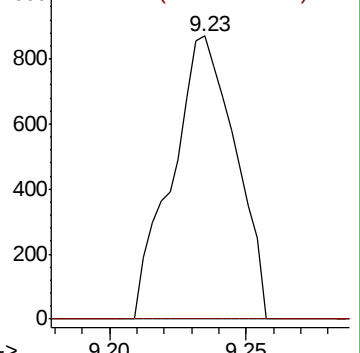
63 100

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: 1.438 ug/l

RT: 9.14 min Scan# 2302

Delta R.T. -0.03 min

Lab File: VN063847.D

Acq: 3 Oct 2020 2:44

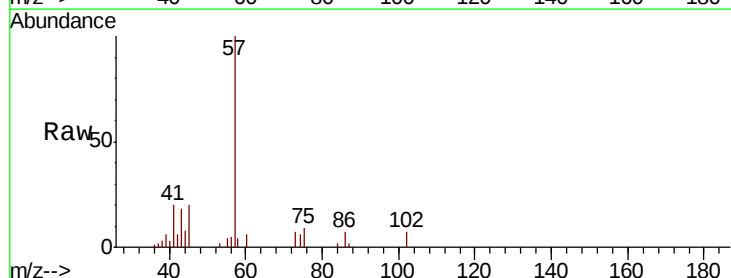
Tgt Ion: 41 Resp: 4830

Ion Ratio Lower Upper

41 100

69 0.0 60.9 91.3#

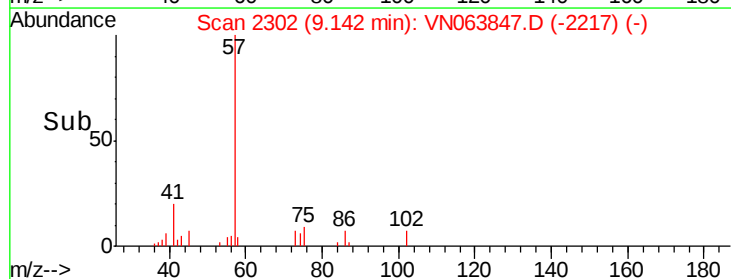
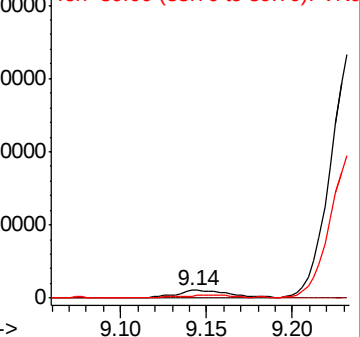
39 0.0 57.5 86.3#

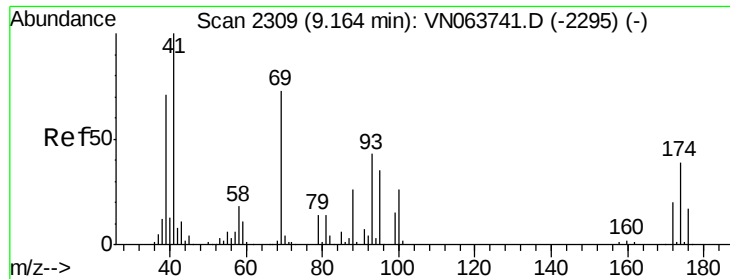


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 0.607 ug/l

RT: 9.23 min Scan# 2329

Delta R.T. 0.06 min

Lab File: VN063847.D

Acq: 3 Oct 2020 2:44

Instrument :

MSVOA_N

ClientSampleId :

RO-21

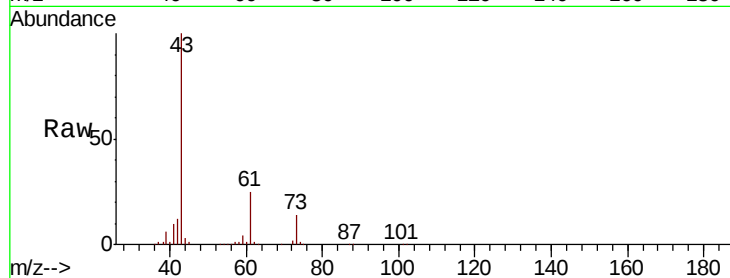
Tot Ion: 88 Resp: 29

Ion Ratio Lower Upper

88 100

43 4202272.4 33.1 49.7#

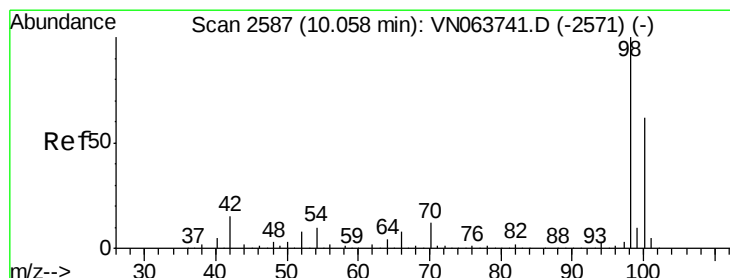
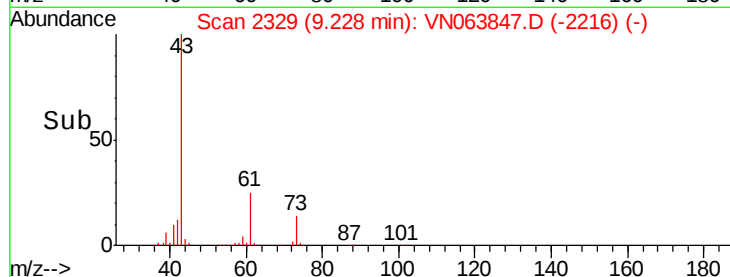
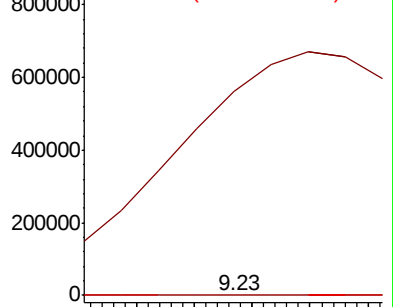
58 21772.4 58.9 88.3#



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: 47.665 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063847.D

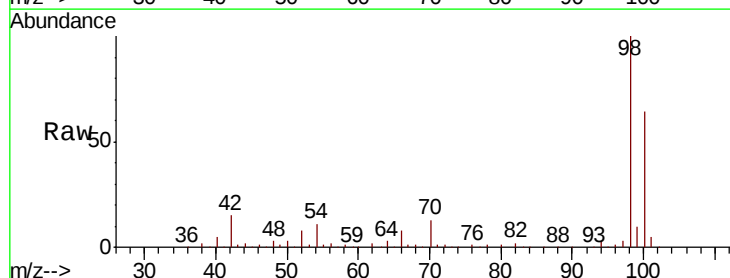
Acq: 3 Oct 2020 2:44

Tgt Ion: 98 Resp: 513488

Ion Ratio Lower Upper

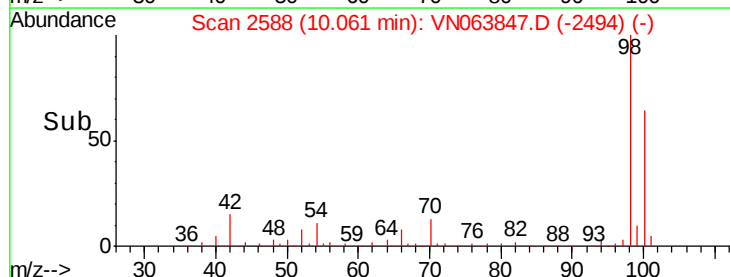
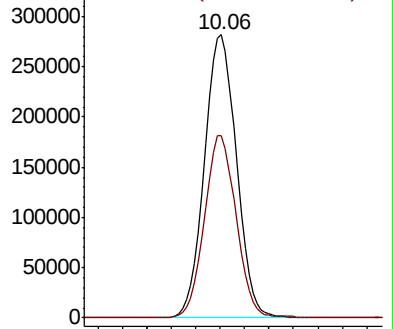
98 100

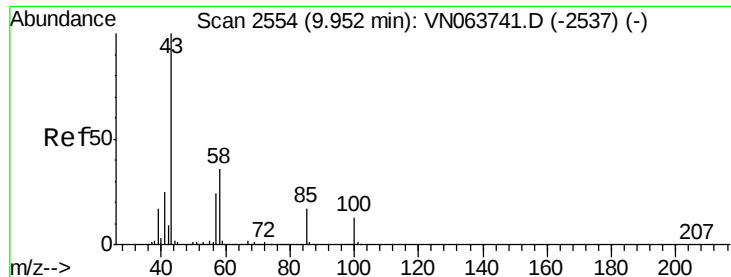
100 63.6 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

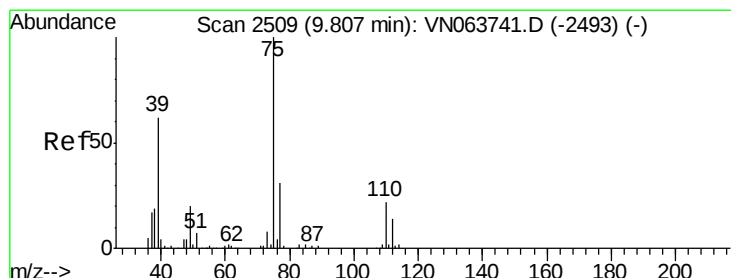
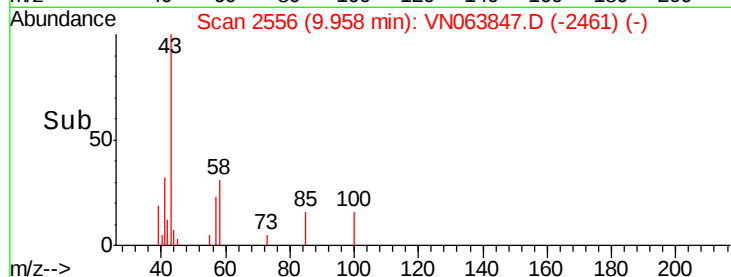
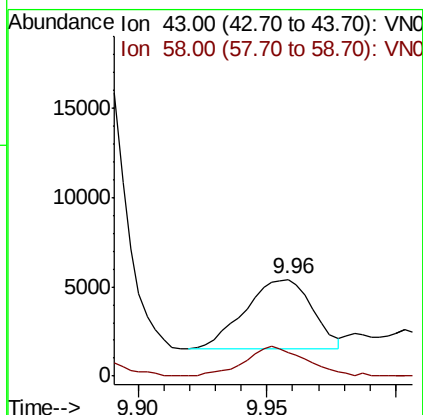
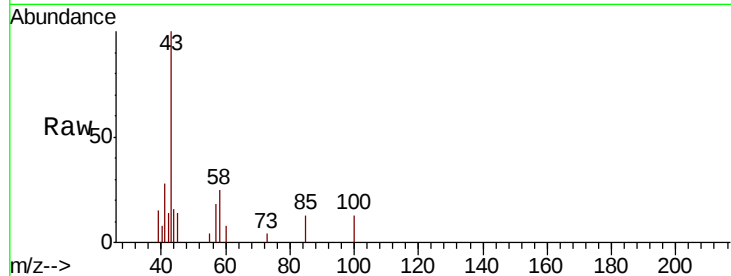




#51
 4-Methyl-2-Pentanone
 Concen: 1.752 ug/l
 RT: 9.96 min Scan# 2556
 Delta R.T. 0.01 min
 Lab File: VN063847.D
 Acq: 3 Oct 2020 2:44

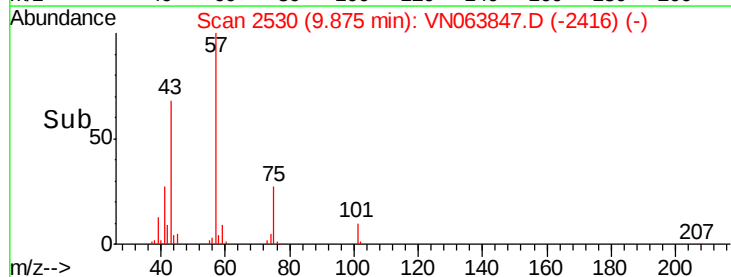
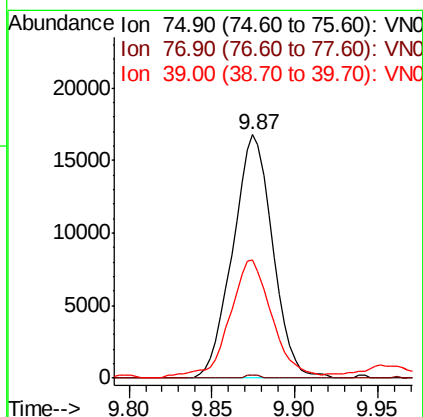
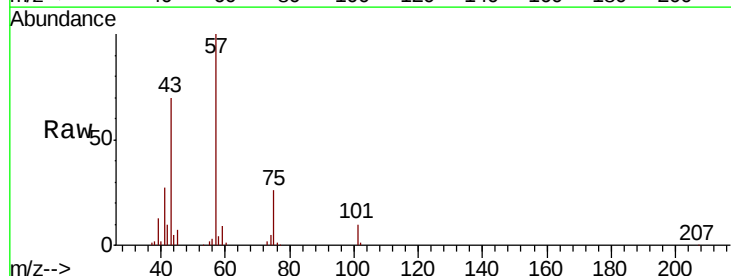
Instrument :
 MSVOA_N
 ClientSampled :
 RO-21

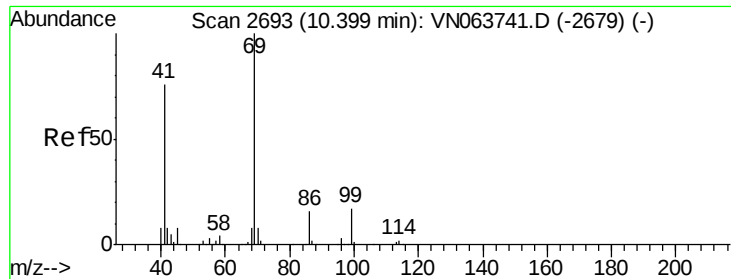
Tot Ion: 43 Resp: 6991
 Ion Ratio Lower Upper
 43 100
 58 39.4 28.4 42.6



#54
 cis-1,3-Dichloropropene
 Concen: 5.494 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN063847.D
 Acq: 3 Oct 2020 2:44

Tgt Ion: 75 Resp: 28026
 Ion Ratio Lower Upper
 75 100
 77 1.2 24.6 36.8#
 39 46.8 49.7 74.5#

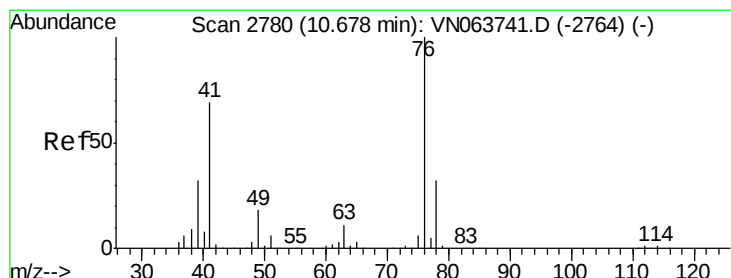
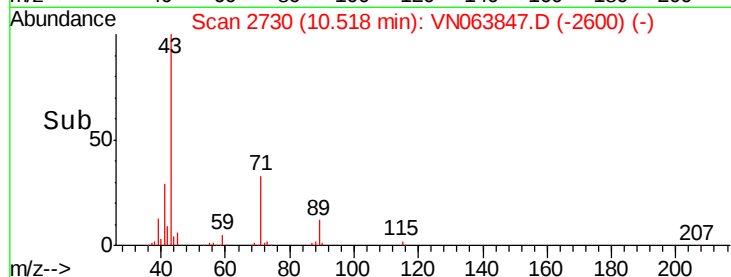
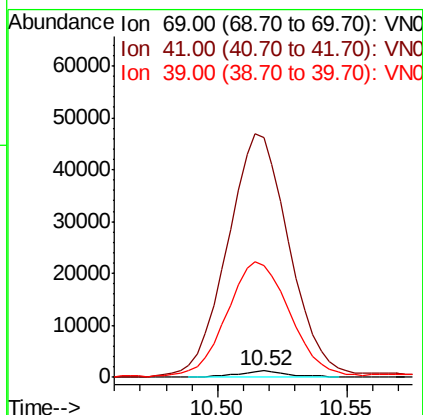
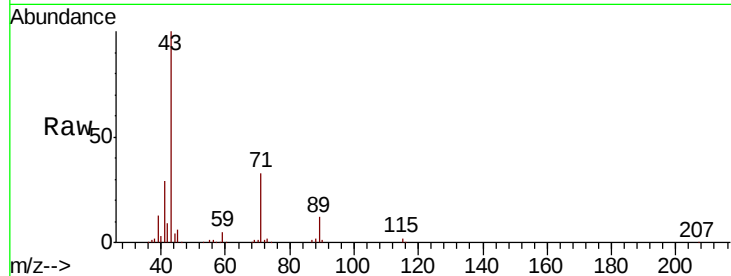




#56
Ethyl methacrylate
Concen: 0.408 ug/l
RT: 10.52 min Scan# 2730
Delta R.T. 0.12 min
Lab File: VN063847.D
Acq: 3 Oct 2020 2:44

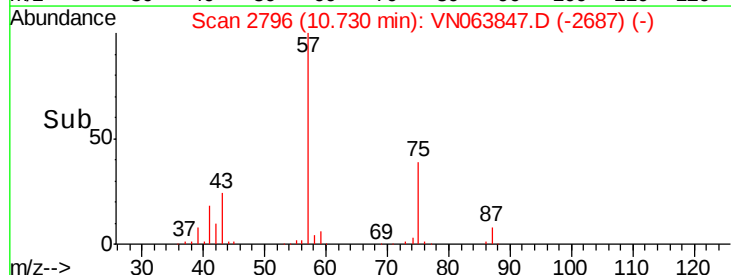
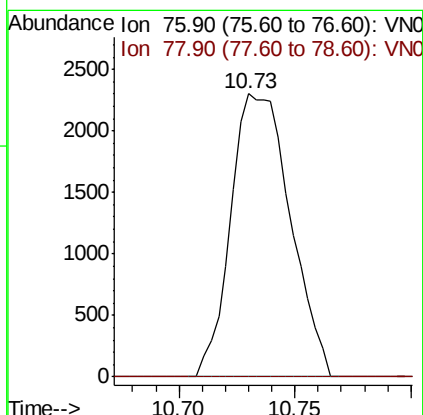
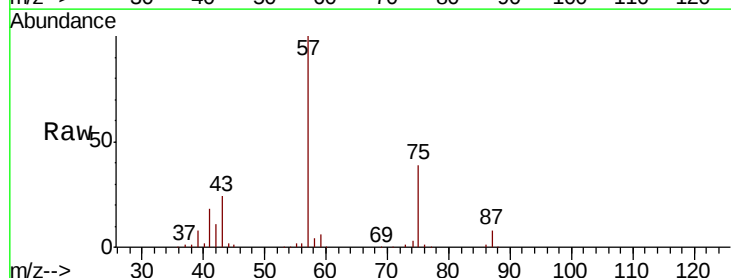
Instrument :
MSVOA_N
ClientSampled :
RO-21

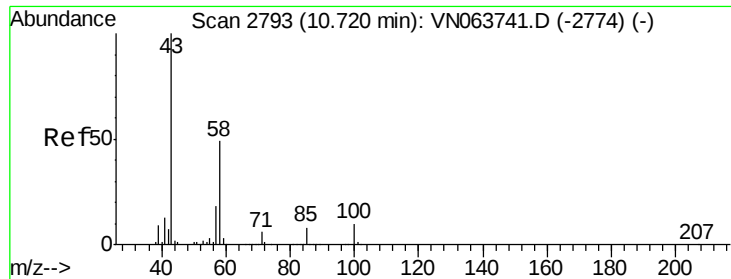
Tot Ion: 69 Resp: 1702
Ion Ratio Lower Upper
69 100
41 4675.0 61.1 91.7#
39 2195.2 42.2 63.4#



#57
1,3-Dichloropropane
Concen: 0.825 ug/l
RT: 10.73 min Scan# 2796
Delta R.T. 0.05 min
Lab File: VN063847.D
Acq: 3 Oct 2020 2:44

Tgt Ion: 76 Resp: 4105
Ion Ratio Lower Upper
76 100
78 0.0 25.2 37.8#

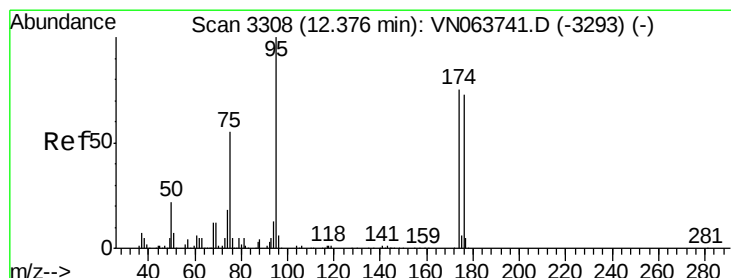
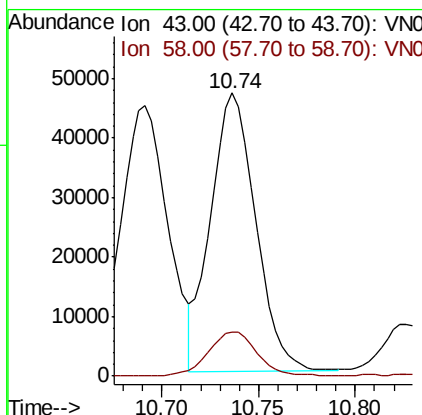
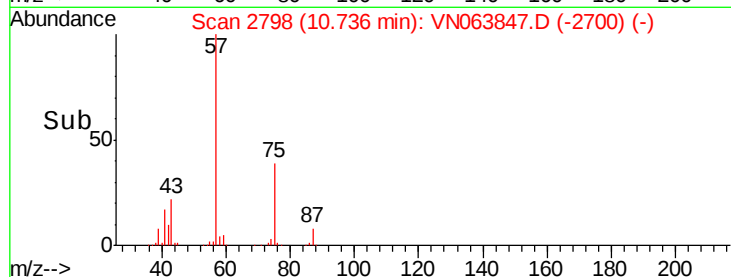
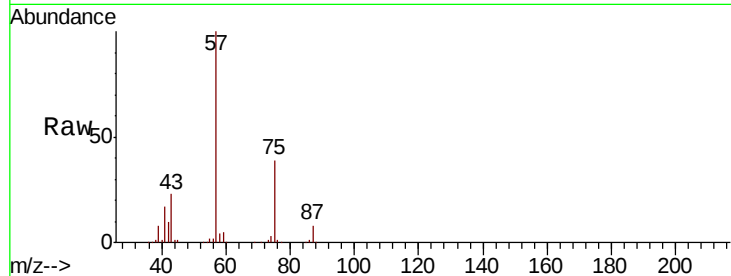




#59
2-Hexanone
Concen: 25.583 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN063847.D
Acq: 3 Oct 2020 2:44

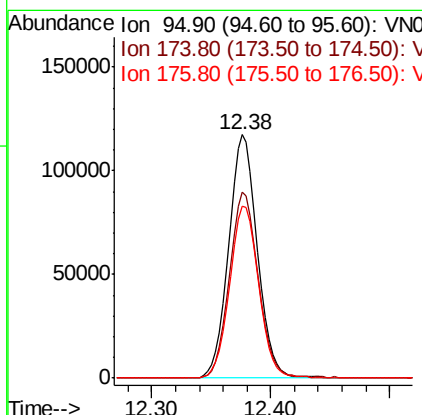
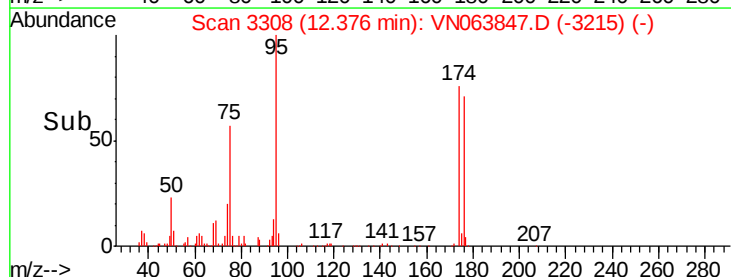
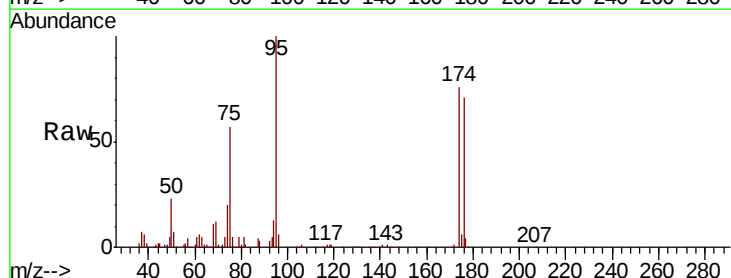
Instrument :
MSVOA_N
ClientSampled :
RO-21

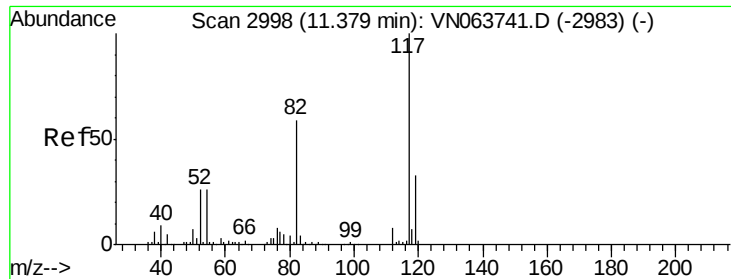
Tot Ion: 43 Resp: 75833
Ion Ratio Lower Upper
43 100
58 17.1 24.6 73.8#



#62
4-Bromofluorobenzene
Concen: 48.334 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN063847.D
Acq: 3 Oct 2020 2:44

Tgt Ion: 95 Resp: 195733
Ion Ratio Lower Upper
95 100
174 77.0 0.0 150.6
176 71.9 0.0 145.4

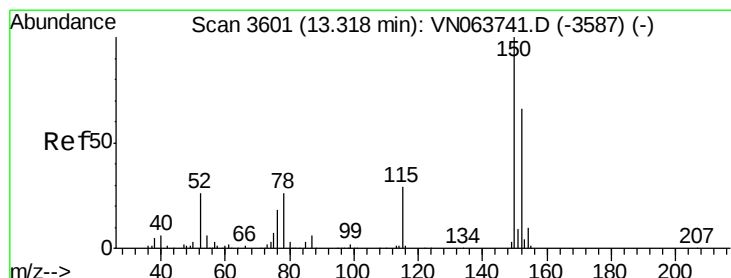
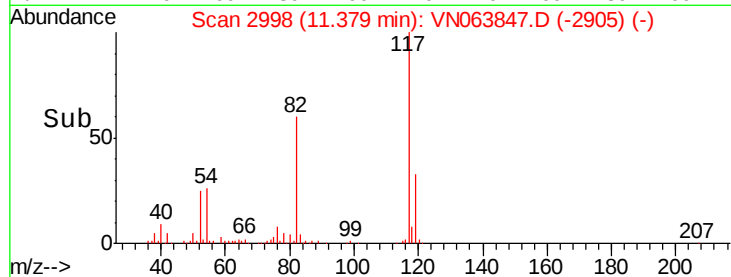
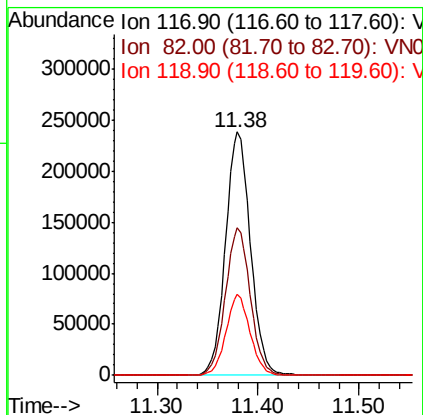
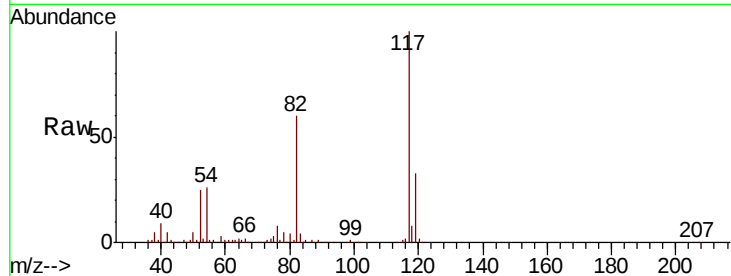




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063847.D
Acq: 3 Oct 2020 2:44

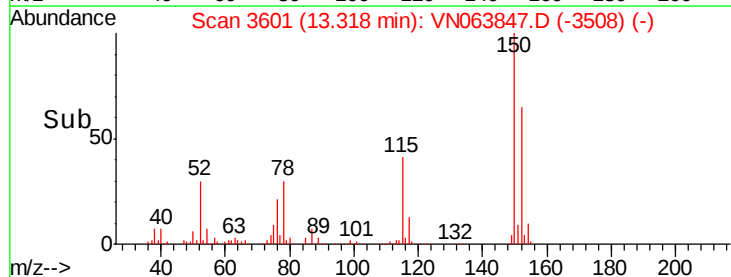
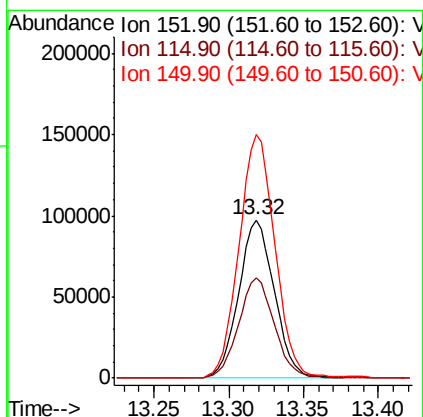
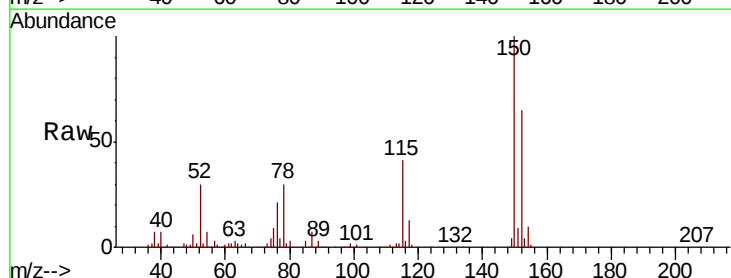
Instrument :
MSVOA_N
ClientSampled :
RO-21

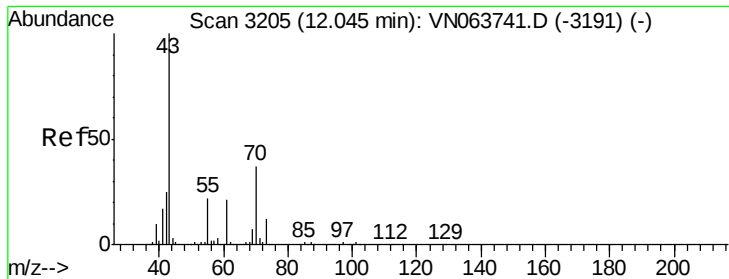
Tot Ion:117 Resp: 412875
Ion Ratio Lower Upper
117 100
82 60.4 47.4 71.2
119 33.2 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN063847.D
Acq: 3 Oct 2020 2:44

Tgt Ion:152 Resp: 161923
Ion Ratio Lower Upper
152 100
115 63.5 31.3 93.8
150 155.6 0.0 341.8





#74

N-amvl acetate

Concen: 2.661 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN063847.D

Acq: 3 Oct 2020 2:44

Instrument :

MSVOA_N

ClientSampleId :

RO-21

Tot Ion: 43 Resp: 2555

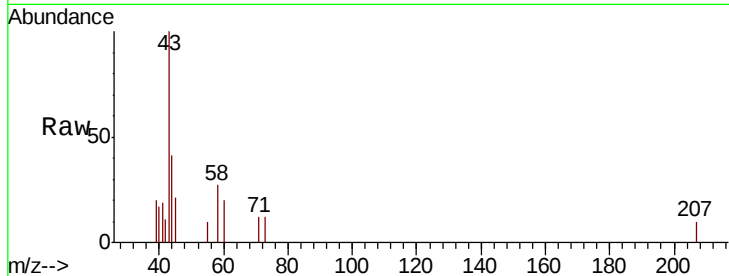
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 6.4 17.9 26.9#

61 0.0 17.0 25.4#

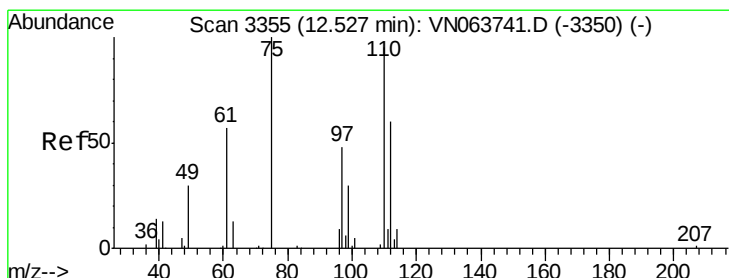
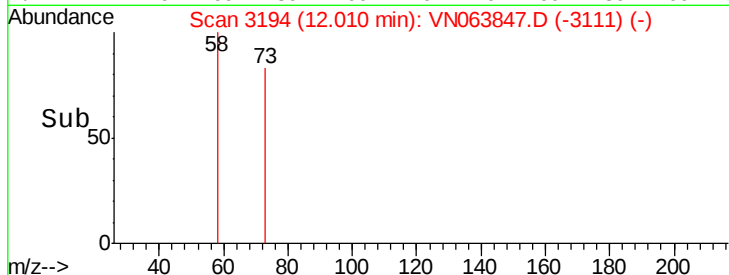
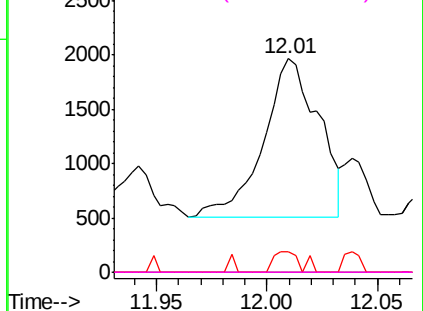


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 31.501 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063847.D

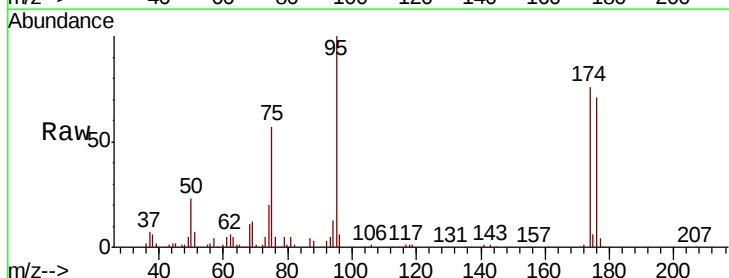
Acq: 3 Oct 2020 2:44

Tgt Ion: 75 Resp: 112440

Ion Ratio Lower Upper

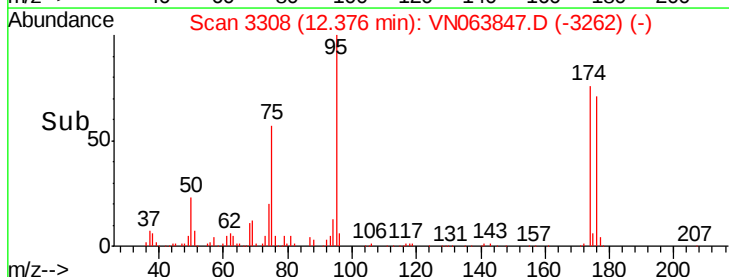
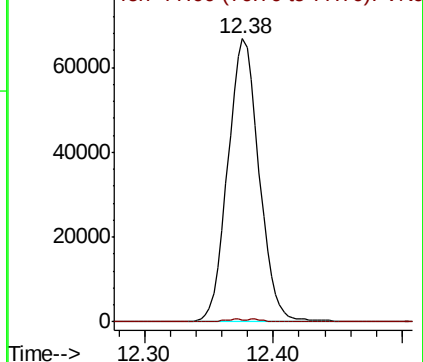
75 100

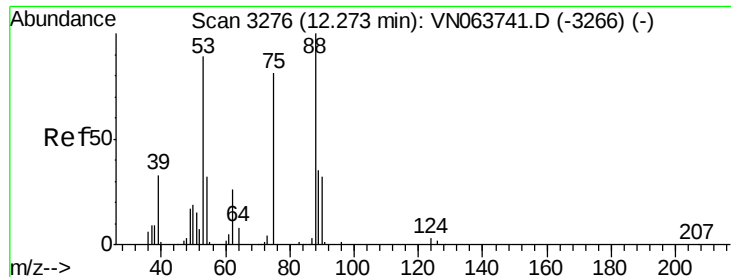
77 0.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

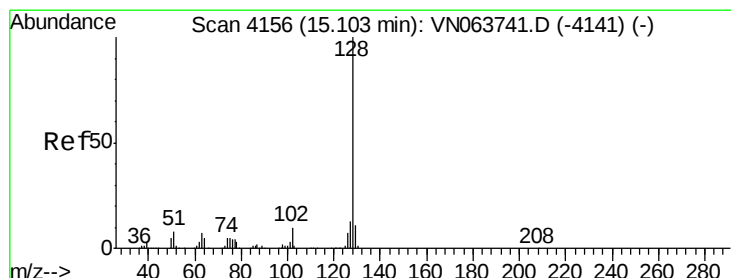
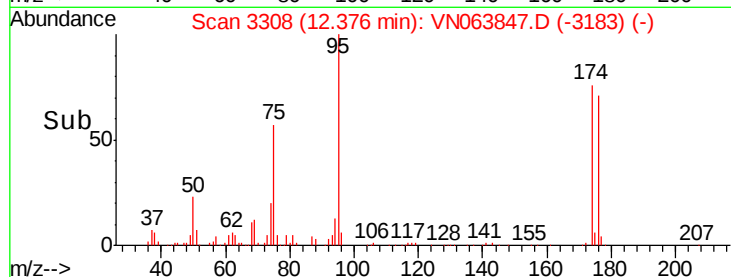
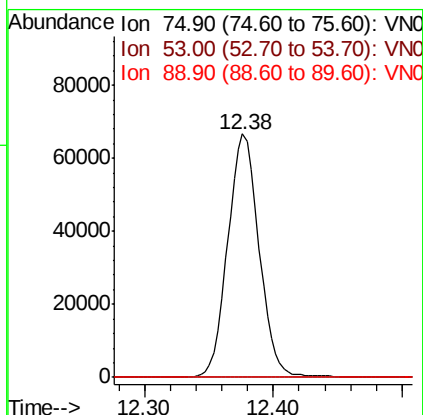
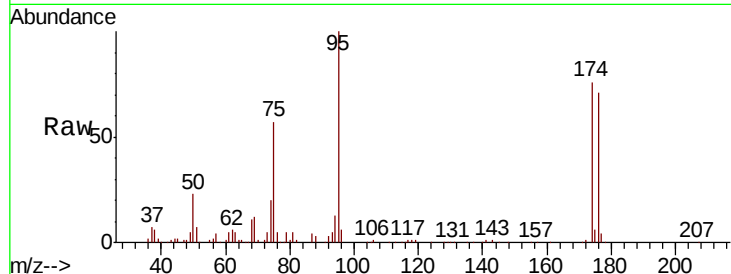




#81
trans-1,4-Dichloro-2-butene
Concen: 90.728 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.10 min
Lab File: VN063847.D
Acq: 3 Oct 2020 2:44

Instrument :
MSVOA_N
ClientSampleId :
RO-21

Tot Ion: 75 Resp: 112440
Ion Ratio Lower Upper
75 100
53 0.1 88.2 132.2#
89 0.1 36.0 54.0#



#95
Naphthalene
Concen: 1.931 ug/l
RT: 15.11 min Scan# 4158
Delta R.T. 0.01 min
Lab File: VN063847.D
Acq: 3 Oct 2020 2:44

Tgt Ion: 128 Resp: 63
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.7 13.1#

