

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100220\
 Data File : VN063848.D
 Acq On : 3 Oct 2020 3:08
 Operator : JC/MD
 Sample : L4198-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-25

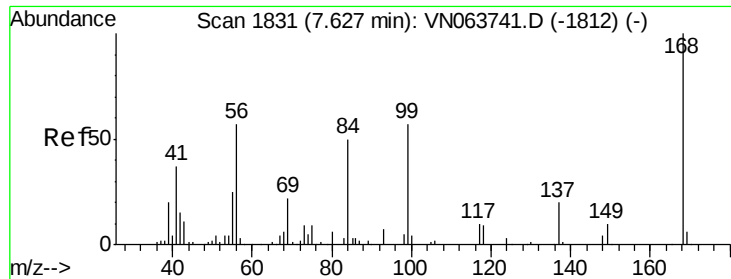
Quant Time: Oct 05 04:24:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	203895	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	387708	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	403394	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	153083	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	182507	54.18	ug/l	0.00
Spiked Amount			Recovery	=	108.36%	
35) Dibromofluoromethane	7.55	113	130327	48.44	ug/l	0.00
Spiked Amount			Recovery	=	96.88%	
50) Toluene-d8	10.06	98	505413	49.56	ug/l	0.00
Spiked Amount			Recovery	=	99.12%	
62) 4-Bromofluorobenzene	12.38	95	188488	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.70	59	133	0.358	ug/l #	71
16) Acetone	3.78	43	11283	10.881	ug/l	98
17) Carbon Disulfide	4.00	76	209	0.738	ug/l #	76
18) Methyl Acetate	4.28	43	2075	0.771	ug/l #	77
20) Methylene Chloride	4.51	84	9575	4.122	ug/l	88
25) 2-Butanone	6.78	43	1097	0.746	ug/l #	51
29) Tetrahydrofuran	7.16	42	301	0.305	ug/l #	79
31) Cyclohexane	7.62	56	6642	1.698	ug/l #	17
36) 1,1-Dichloropropene	7.62	75	19615	4.994	ug/l #	50
38) Carbon Tetrachloride	7.63	117	24091	5.470	ug/l #	16
43) Isopropyl Acetate	8.13	43	71726	11.143	ug/l	98
48) Methyl methacrylate	9.15	41	3822	1.202	ug/l #	12
49) 1,4-Dioxane	9.24	88	153	3.385	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	7592	2.010	ug/l	98
54) cis-1,3-Dichloropropene	9.87	75	28249	5.850	ug/l #	64
56) Ethyl methacrylate	10.52	69	1951	0.495	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5364	1.139	ug/l #	43
59) 2-Hexanone	10.74	43	78246	27.884	ug/l #	54
74) N-amyl acetate	12.01	43	3619	2.882	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	106510	31.563	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	106510	90.905	ug/l #	6
95) Naphthalene	15.12	128	66	1.932	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: VN063848.D

Acq: 3 Oct 2020 3:08

Instrument :

MSVOA_N

ClientSampleId :

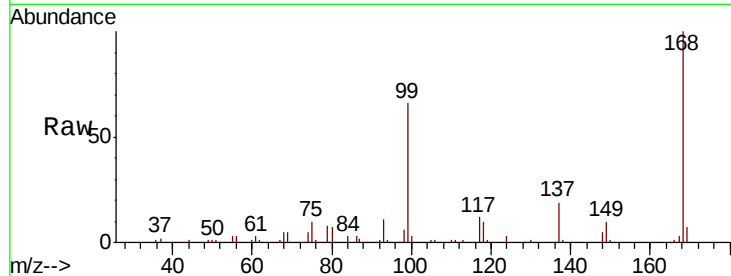
RO-25

Tot Ion:168 Resp: 203895

Ion Ratio Lower Upper

168 100

99 65.4 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

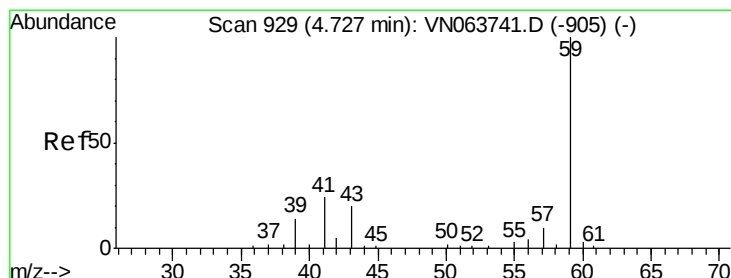
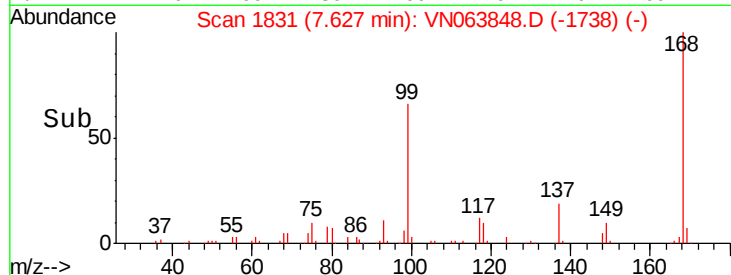
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.358 ug/l

RT: 4.70 min Scan# 922

Delta R.T. -0.02 min

Lab File: VN063848.D

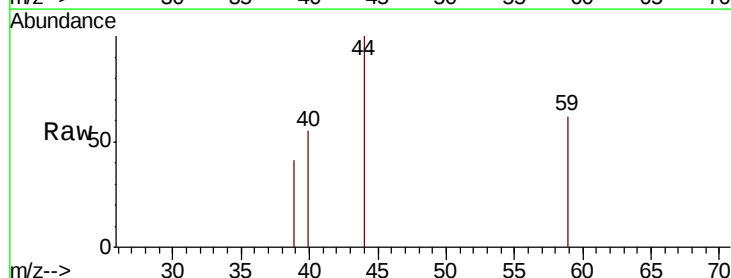
Acq: 3 Oct 2020 3:08

Tgt Ion: 59 Resp: 133

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

4.70

300

250

200

150

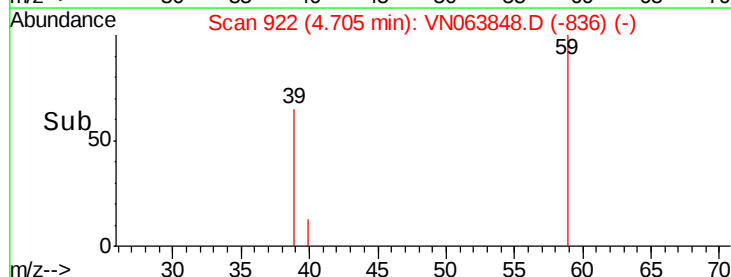
100

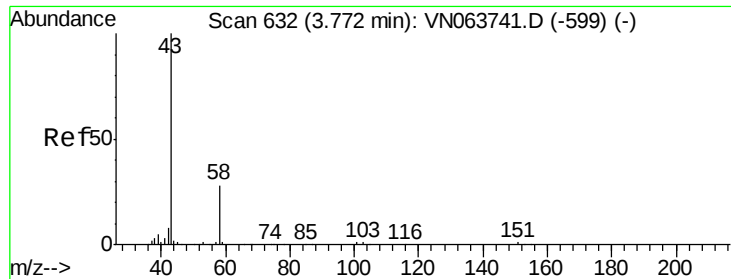
50

0

4.69 4.70 4.71 4.72

Time-->





#16

Acetone

Concen: 10.881 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN063848.D

Acq: 3 Oct 2020 3:08

Instrument :

MSVOA_N

ClientSampled :

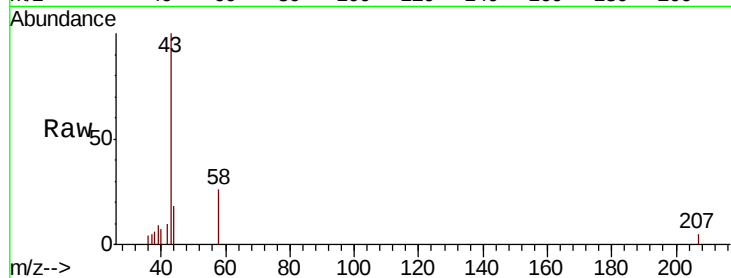
RO-25

Tot Ion: 43 Resp: 11283

Ion Ratio Lower Upper

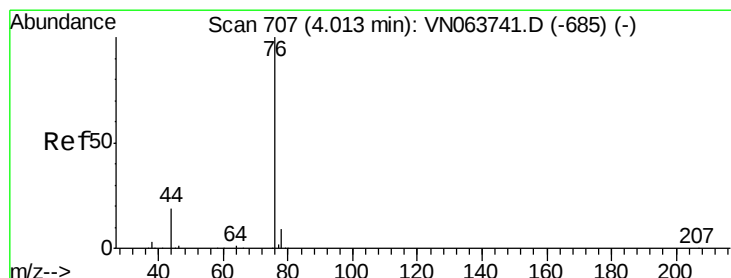
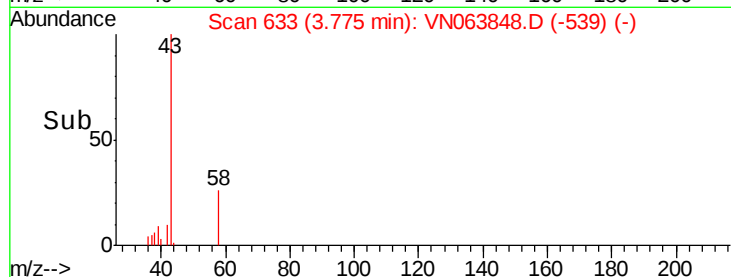
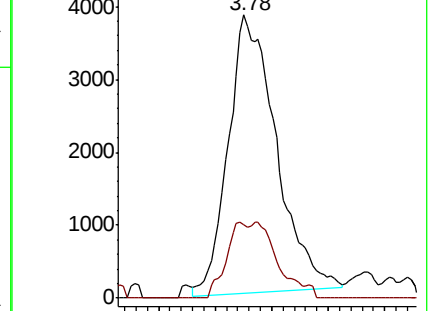
43 100

58 26.8 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN063741.D (-599) (-)

Ion 58.00 (57.70 to 58.70): VN063741.D (-599) (-)



#17

Carbon Disulfide

Concen: 0.738 ug/l

RT: 4.00 min Scan# 704

Delta R.T. -0.01 min

Lab File: VN063848.D

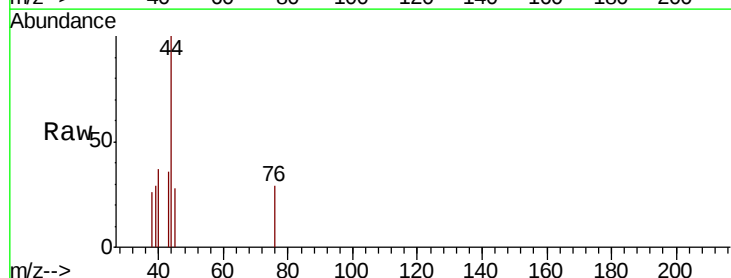
Acq: 3 Oct 2020 3:08

Tgt Ion: 76 Resp: 209

Ion Ratio Lower Upper

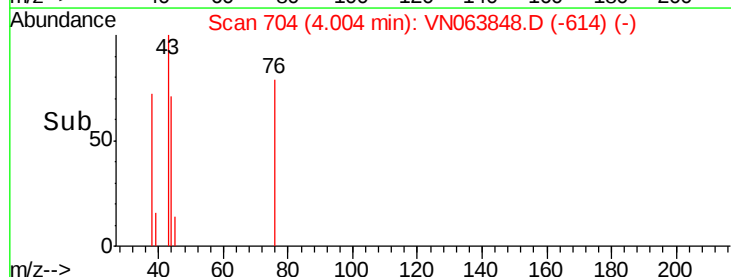
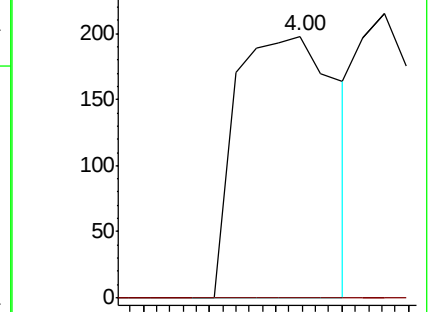
76 100

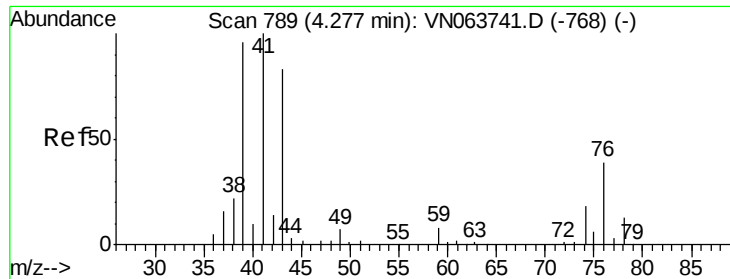
78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN063741.D (-685) (-)

Ion 77.90 (77.60 to 78.60): VN063741.D (-685) (-)

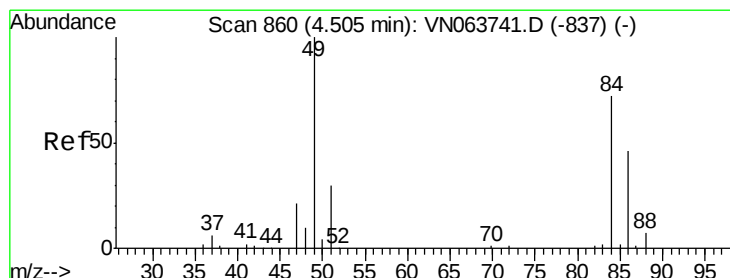
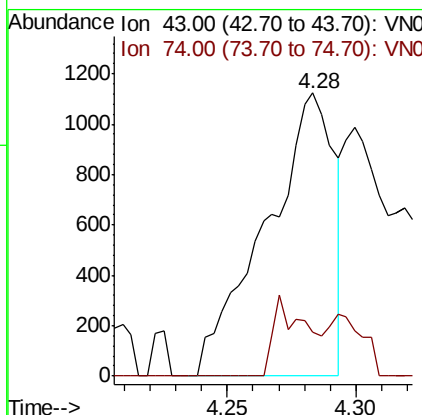
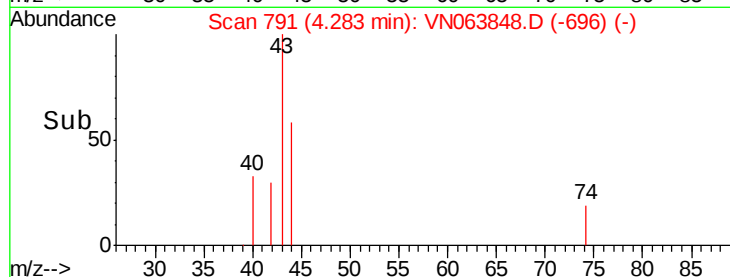
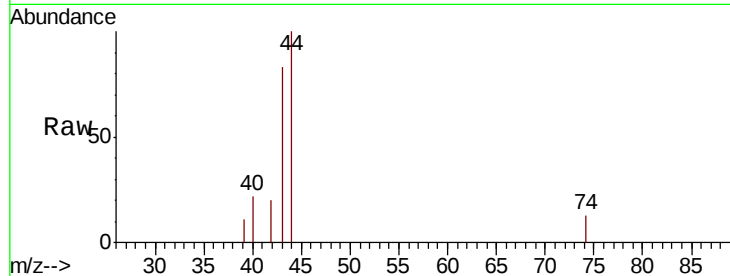




#18
Methyl Acetate
Concen: 0.771 ug/l
RT: 4.28 min Scan# 791
Delta R.T. 0.01 min
Lab File: VN063848.D
Acq: 3 Oct 2020 3:08

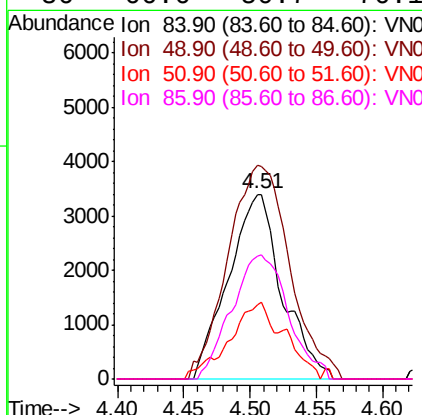
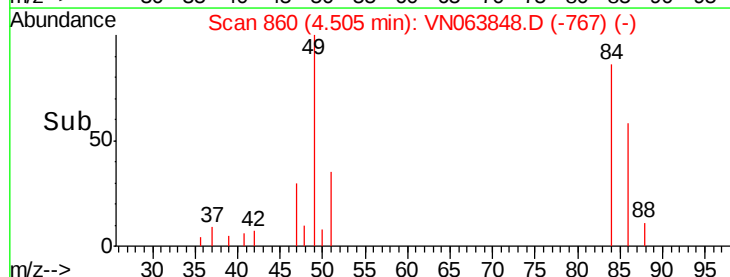
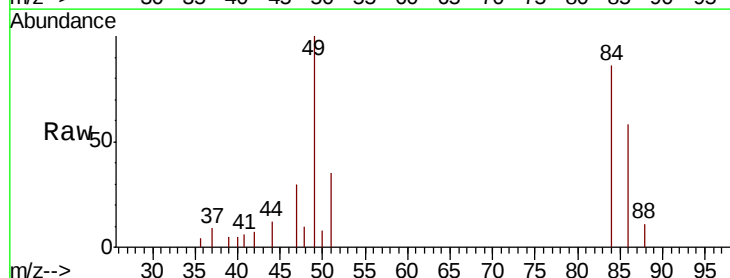
Instrument :
MSVOA_N
ClientSampled :
RO-25

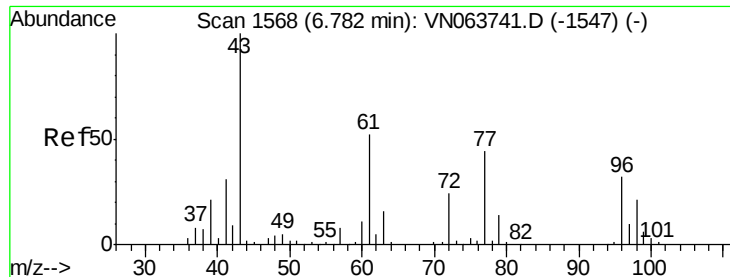
Tot Ion: 43 Resp: 2075
Ion Ratio Lower Upper
43 100
74 10.8 17.4 26.2#



#20
Methylene Chloride
Concen: 4.122 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063848.D
Acq: 3 Oct 2020 3:08

Tgt Ion: 84 Resp: 9575
Ion Ratio Lower Upper
84 100
49 115.7 110.4 165.6
51 40.1 33.3 49.9
86 66.6 50.7 76.1





#25

2-Butanone

Concen: 0.746 ug/l

RT: 6.78 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VN063848.D

Acq: 3 Oct 2020 3:08

Instrument :

MSVOA_N

ClientSampleId :

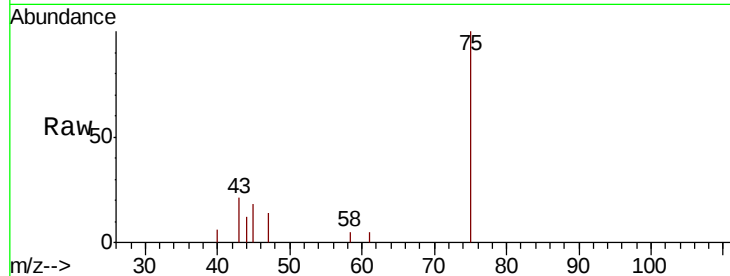
RO-25

Tot Ion: 43 Resp: 1097

Ion Ratio Lower Upper

43 100

72 0.0 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

800

600

400

200

0

6.74 6.76 6.78 6.80

6.78

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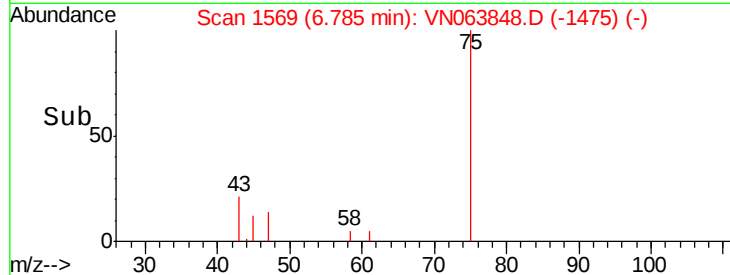
6.78

6.78

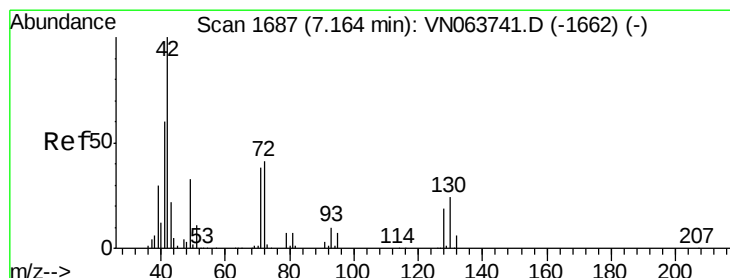
6.78

6.78

6.78



Time-->



#29

Tetrahydrofuran

Concen: 0.305 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN063848.D

Acq: 3 Oct 2020 3:08

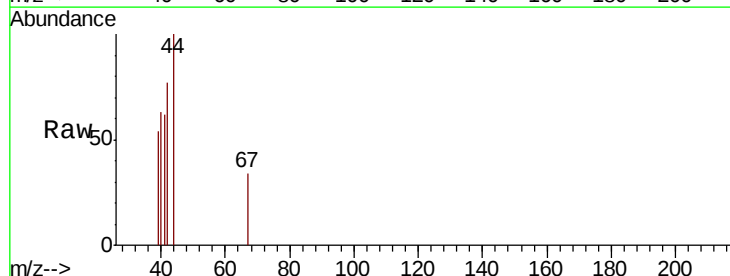
Tgt Ion: 42 Resp: 301

Ion Ratio Lower Upper

42 100

72 32.6 32.8 49.2#

71 20.9 30.6 45.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

500

400

300

200

100

0

7.15 7.16 7.17

7.16

7.16

7.16

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7.16

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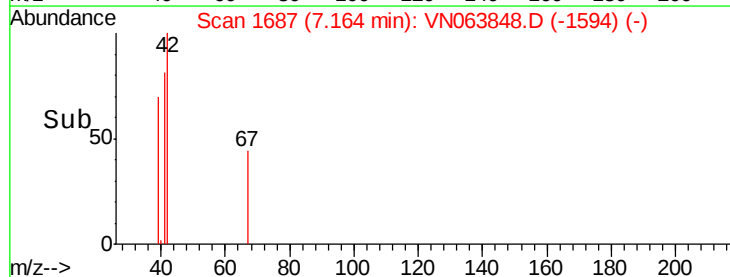
7.16

7.16

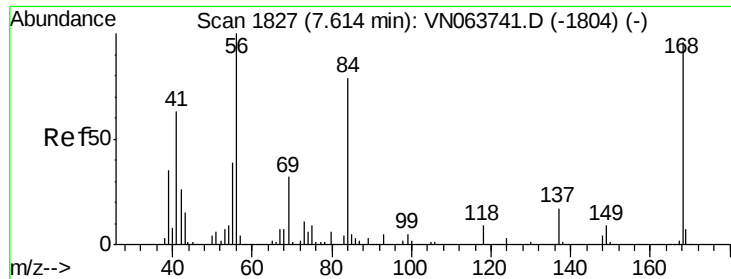
7.16

7.16

7.16



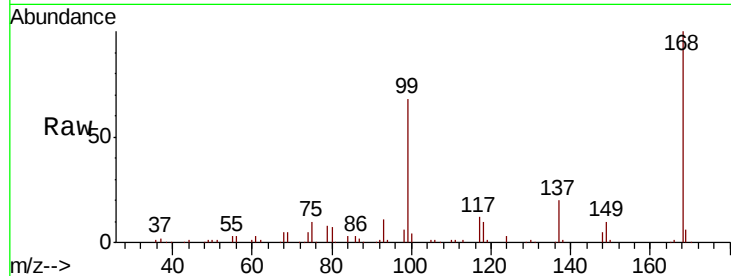
Time-->



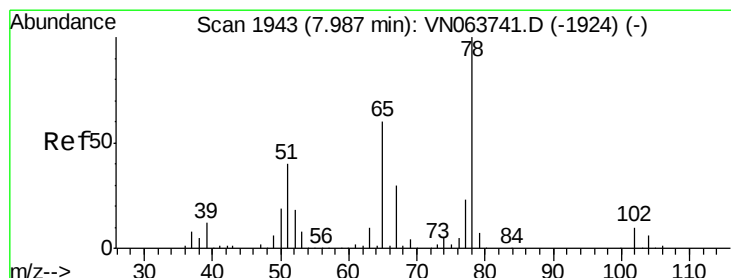
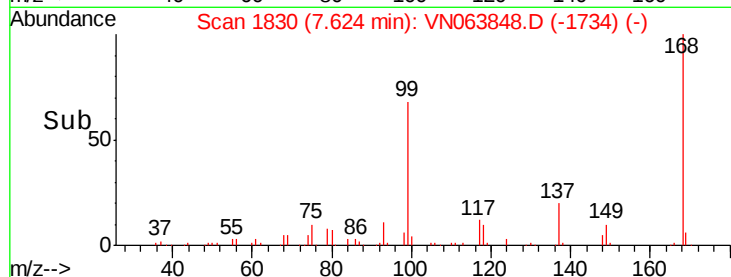
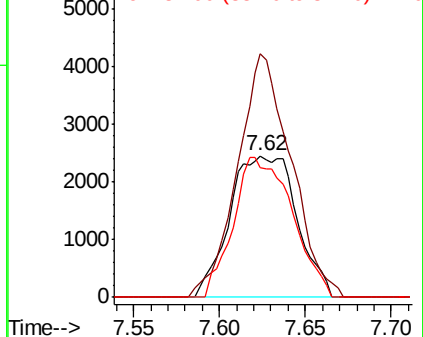
#31
Cyclohexane
Concen: 1.698 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN063848.D
Acq: 3 Oct 2020 3:08

Instrument :
MSVOA_N
ClientSampled :
RO-25

Tot Ion: 56 Resp: 6642
Ion Ratio Lower Upper
56 100
69 172.3 25.4 38.2#
84 92.0 63.3 94.9

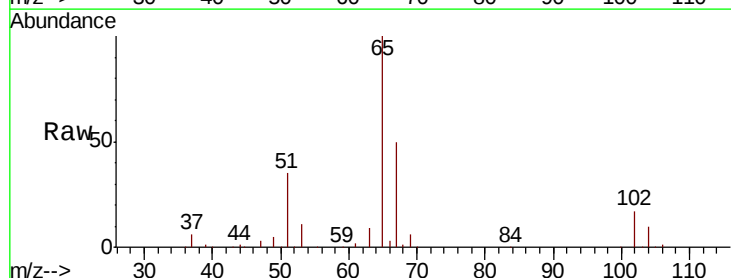


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

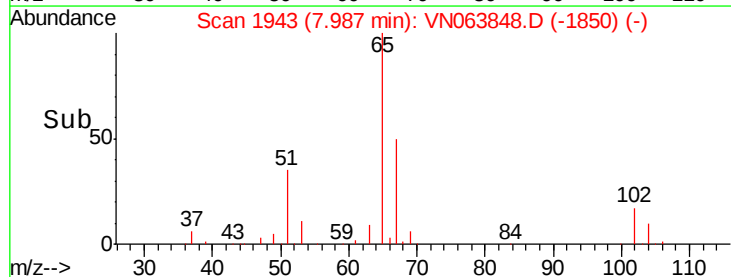
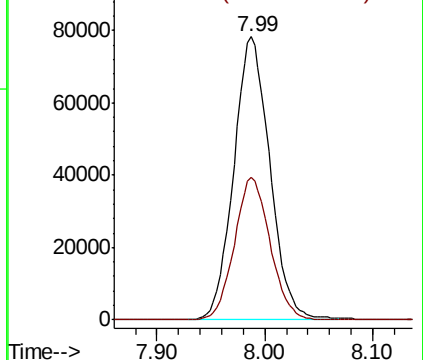


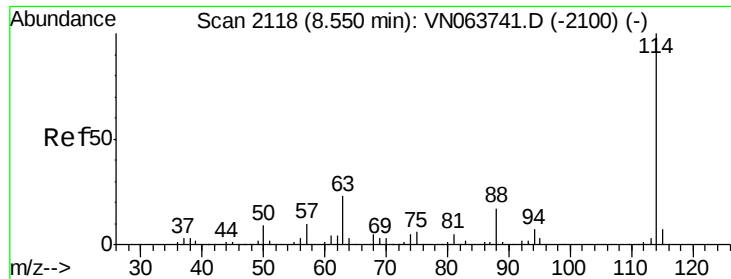
#33
1,2-Dichloroethane-d4
Concen: 54.181 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN063848.D
Acq: 3 Oct 2020 3:08

Tgt Ion: 65 Resp: 182507
Ion Ratio Lower Upper
65 100
67 49.6 0.0 99.6



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

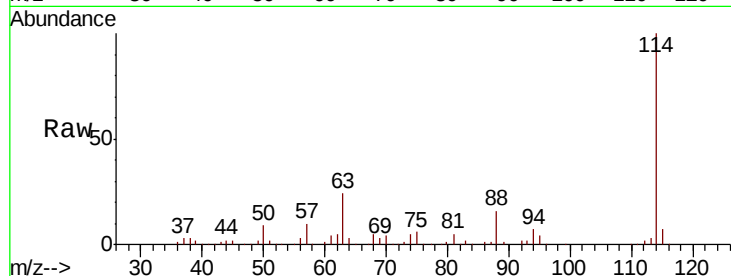




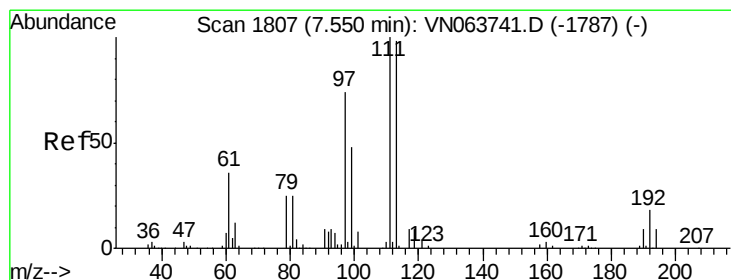
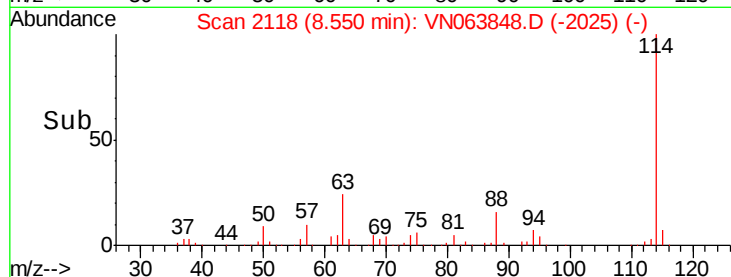
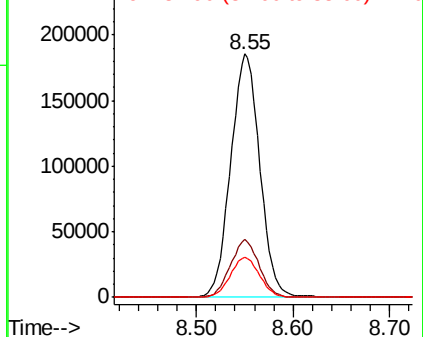
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VN063848.D
Acq: 3 Oct 2020 3:08

Instrument :
MSVOA_N
ClientSampleId :
RO-25

Tot Ion:	114	Resp:	387708
Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	45.0
88	16.3	0.0	34.0

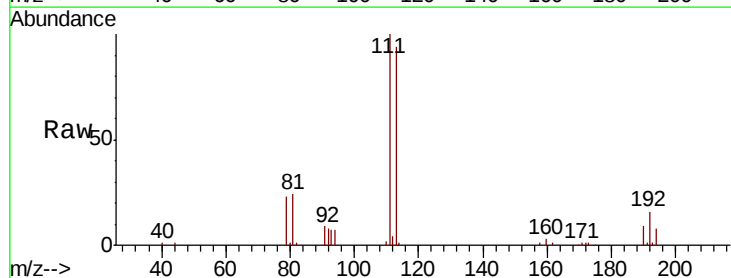


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

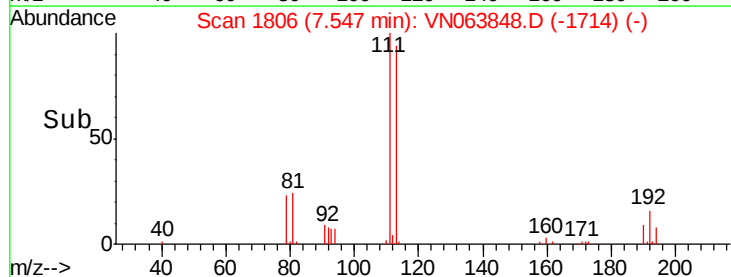
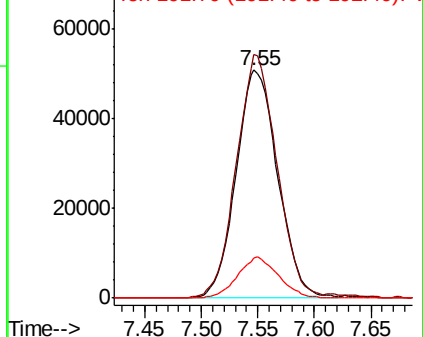


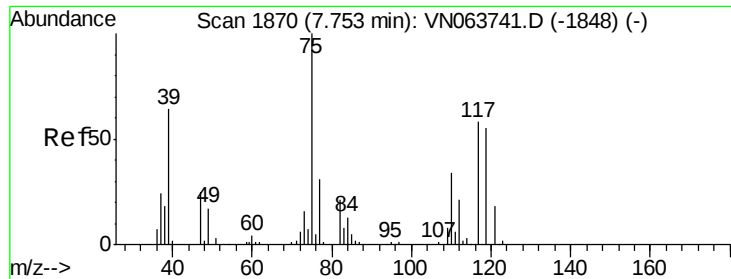
#35
Dibromofluoromethane
Concen: 48.445 ug/l
RT: 7.55 min Scan# 1806
Delta R.T. -0.00 min
Lab File: VN063848.D
Acq: 3 Oct 2020 3:08

Tgt Ion:	113	Resp:	130327
Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.8	122.8
192	17.6	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

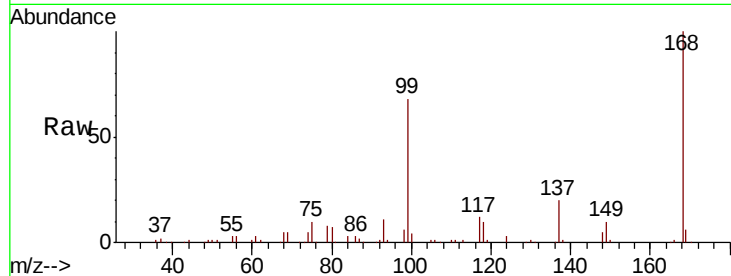




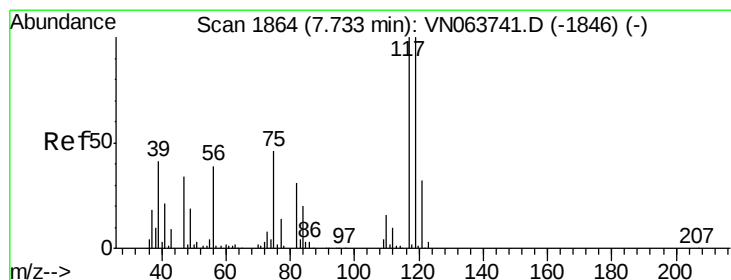
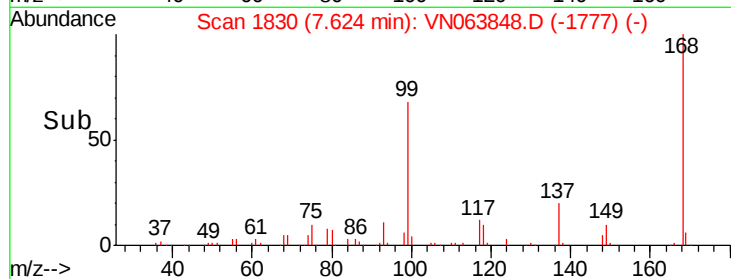
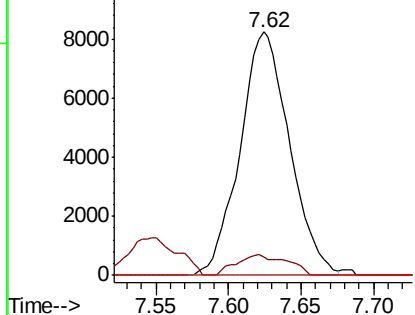
#36
 1,1-Dichloropropene
 Concen: 4.994 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063848.D
 Acq: 3 Oct 2020 3:08

Instrument :
 MSVOA_N
 ClientSampled :
 RO-25

Tot Ion: 75 Resp: 19615
 Ion Ratio Lower Upper
 75 100
 110 8.6 16.9 50.6#
 77 0.0 24.5 36.7#

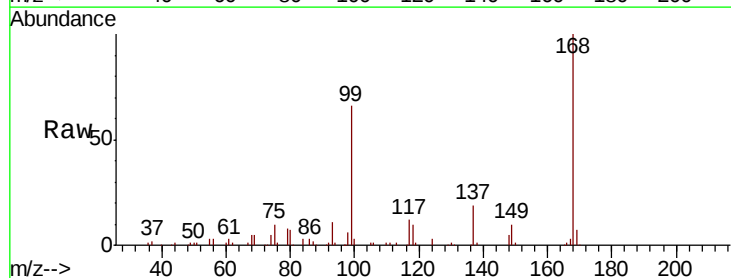


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

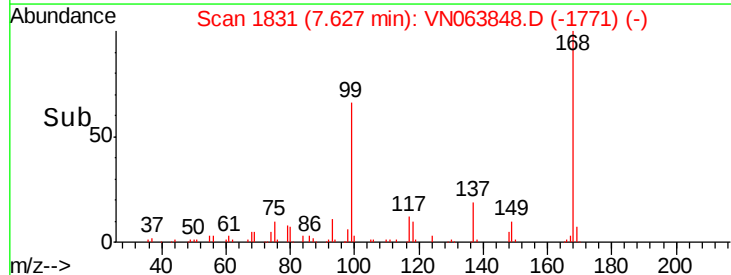
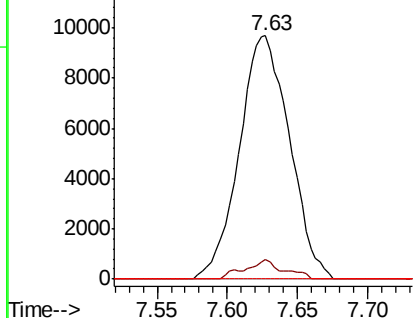


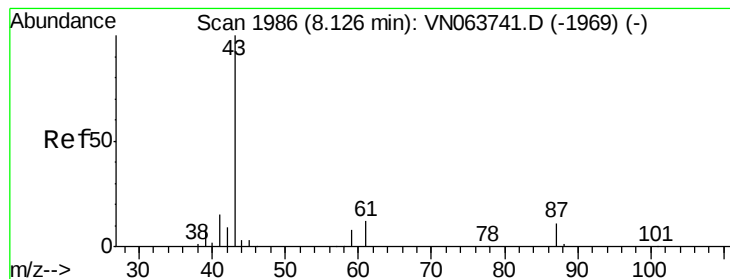
#38
 Carbon Tetrachloride
 Concen: 5.470 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063848.D
 Acq: 3 Oct 2020 3:08

Tgt Ion: 117 Resp: 24091
 Ion Ratio Lower Upper
 117 100
 119 8.2 80.1 120.1#
 121 0.0 25.7 38.5#



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: 11.143 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN063848.D

Acq: 3 Oct 2020 3:08

Instrument :

MSVOA_N

ClientSampleId :

RO-25

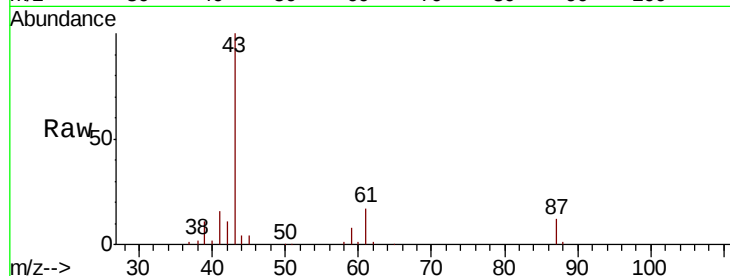
Tot Ion: 43 Resp: 71726

Ion Ratio Lower Upper

43 100

61 18.7 14.2 21.4

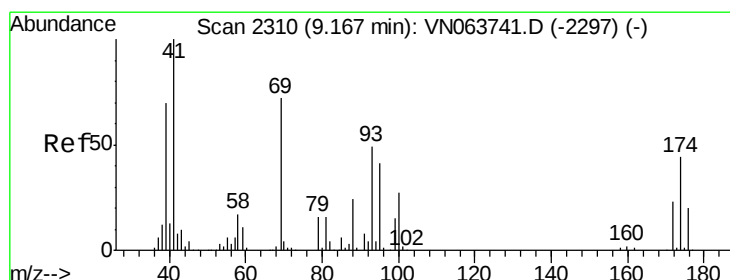
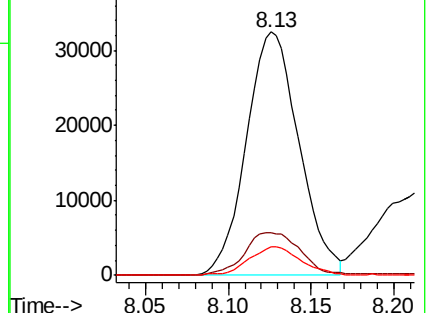
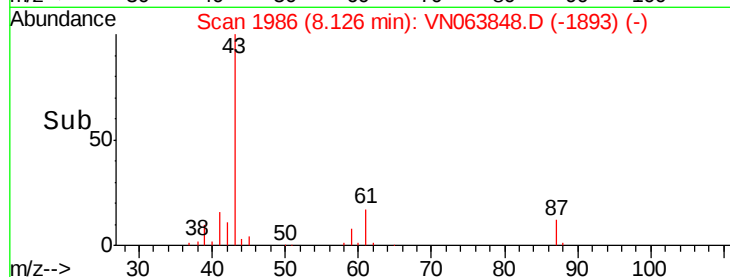
87 11.6 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN063848.D (-2217) (-)

Ion 61.00 (60.70 to 61.70): VN063848.D (-2217) (-)

Ion 87.00 (86.70 to 87.70): VN063848.D (-2217) (-)



#48

Methyl methacrylate

Concen: 1.202 ug/l

RT: 9.15 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN063848.D

Acq: 3 Oct 2020 3:08

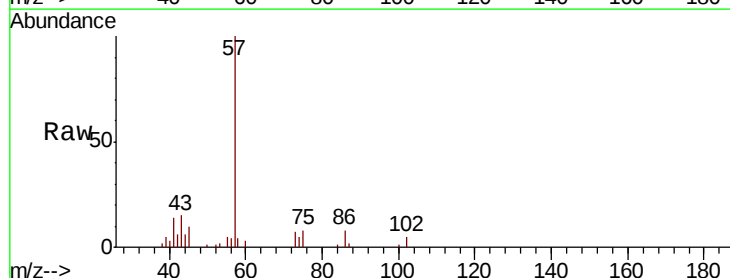
Tgt Ion: 41 Resp: 3822

Ion Ratio Lower Upper

41 100

69 0.0 60.9 91.3#

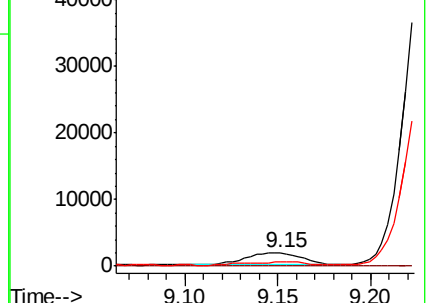
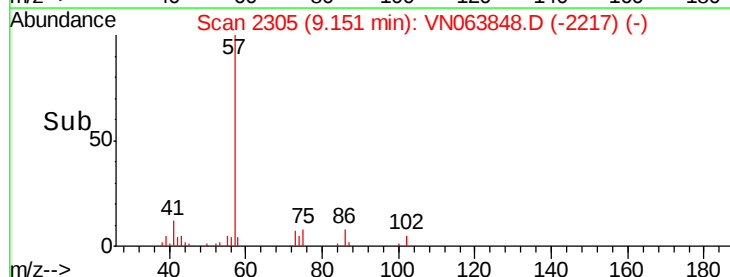
39 0.0 57.5 86.3#

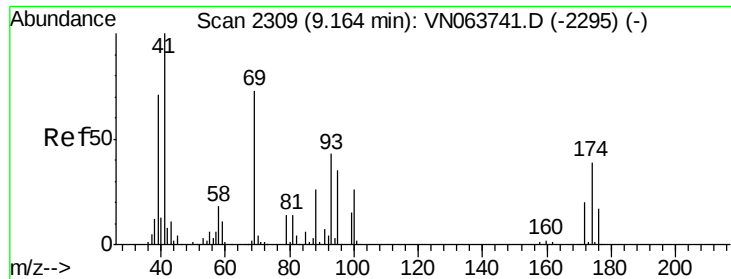


Abundance Ion 41.00 (40.70 to 41.70): VN063848.D (-2217) (-)

Ion 69.00 (68.70 to 69.70): VN063848.D (-2217) (-)

Ion 39.00 (38.70 to 39.70): VN063848.D (-2217) (-)





#49

1,4-Dioxane

Concen: 3.385 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.07 min

Lab File: VN063848.D

Acq: 3 Oct 2020 3:08

Instrument :

MSVOA_N

ClientSampleId :

RO-25

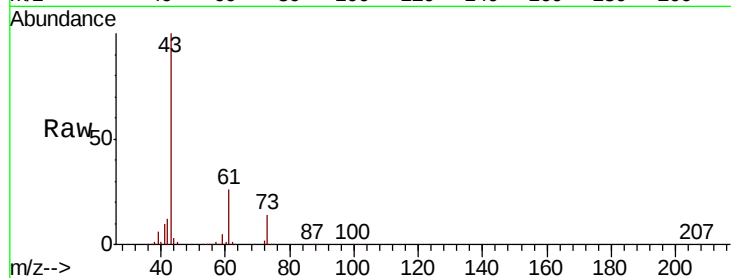
Tot Ion: 88 Resp: 153

Ion Ratio Lower Upper

88 100

43 768033.3 33.1 49.7#

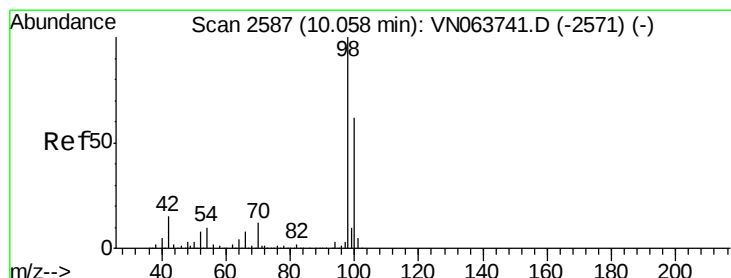
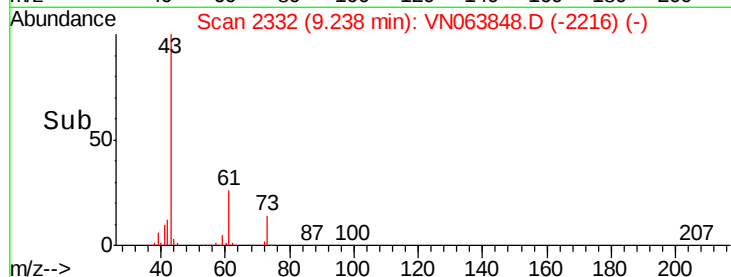
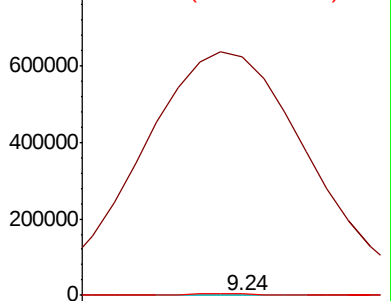
58 3754.2 58.9 88.3#



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: 49.558 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063848.D

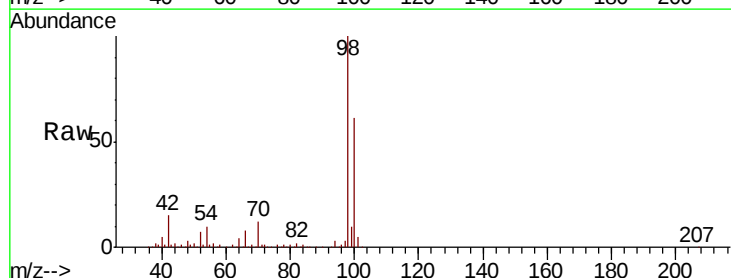
Acq: 3 Oct 2020 3:08

Tgt Ion: 98 Resp: 505413

Ion Ratio Lower Upper

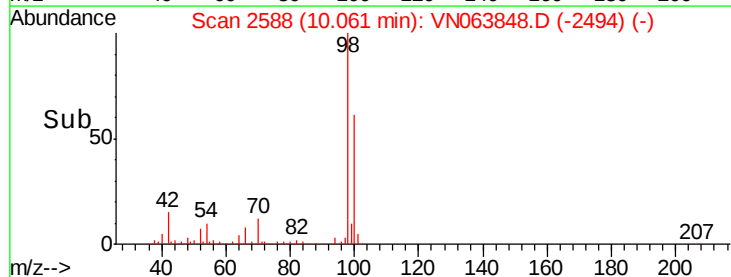
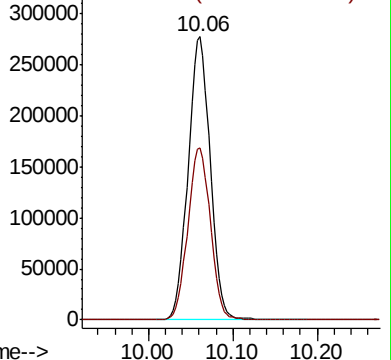
98 100

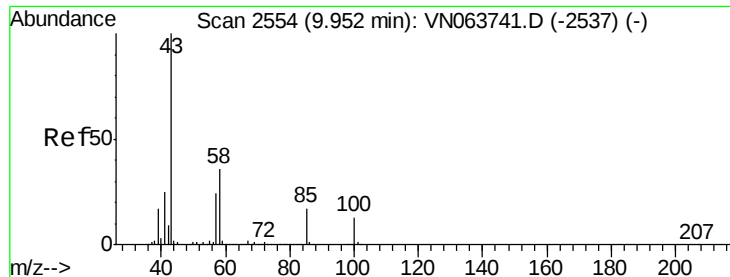
100 61.9 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

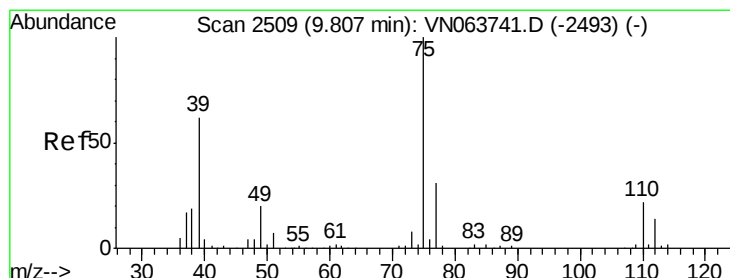
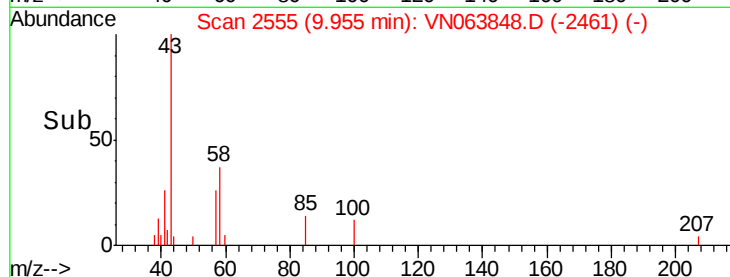
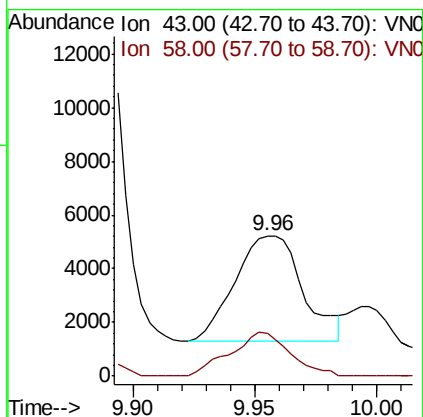
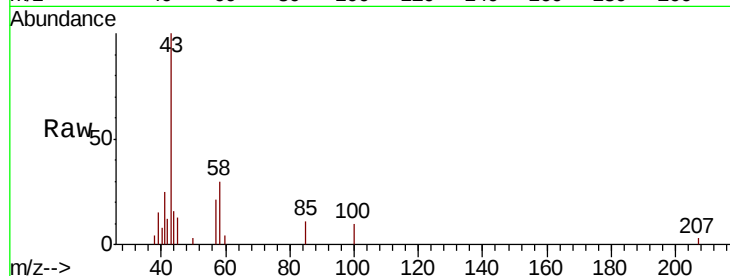




#51
4-Methyl-2-Pentanone
Concen: 2.010 ug/l
RT: 9.96 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN063848.D
Acq: 3 Oct 2020 3:08

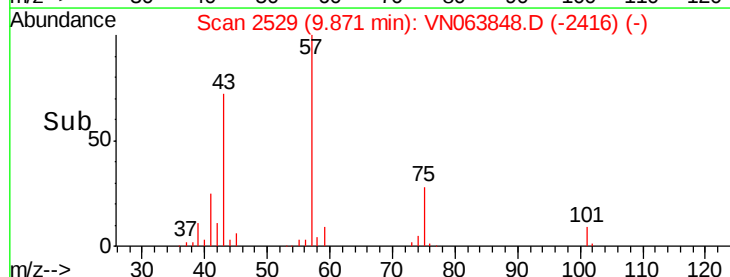
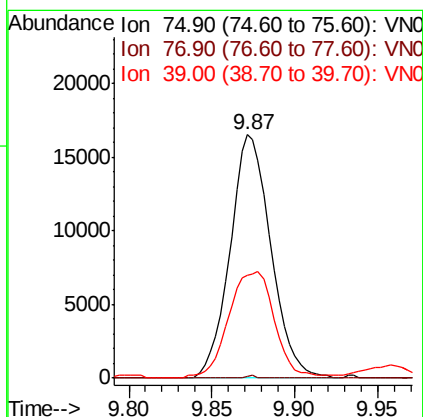
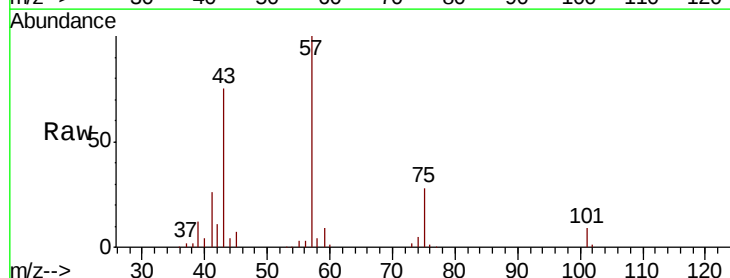
Instrument :
MSVOA_N
ClientSampled :
RO-25

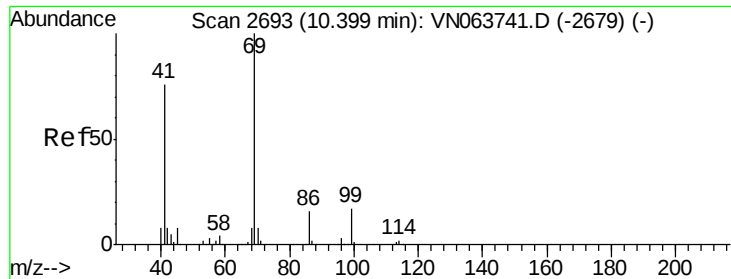
Tot Ion: 43 Resp: 7592
Ion Ratio Lower Upper
43 100
58 36.8 28.4 42.6



#54
cis-1,3-Dichloropropene
Concen: 5.850 ug/l
RT: 9.87 min Scan# 2529
Delta R.T. 0.06 min
Lab File: VN063848.D
Acq: 3 Oct 2020 3:08

Tgt Ion: 75 Resp: 28249
Ion Ratio Lower Upper
75 100
77 0.9 24.6 36.8#
39 41.5 49.7 74.5#





#56

Ethyl methacrylate

Concen: 0.495 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN063848.D

Acq: 3 Oct 2020 3:08

Instrument :

MSVOA_N

ClientSampled :

RO-25

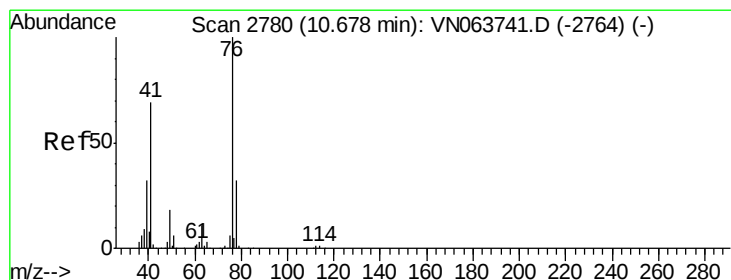
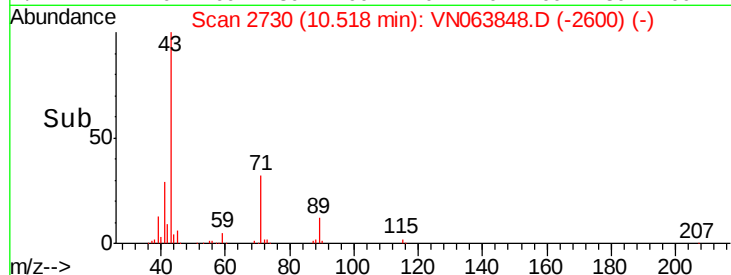
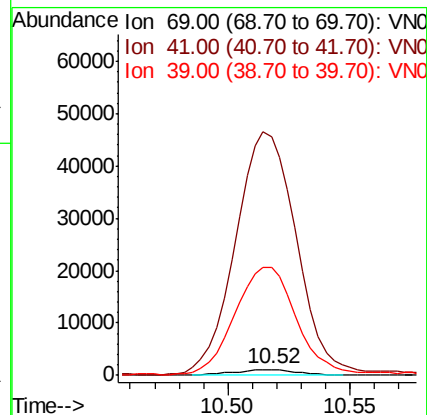
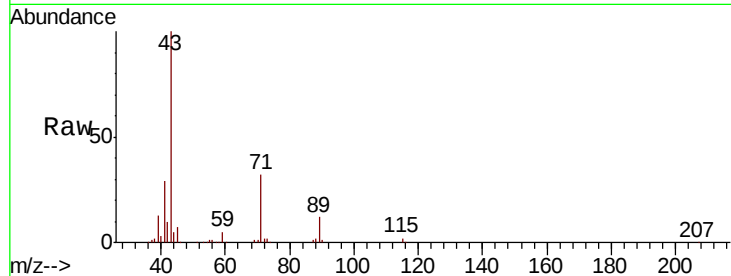
Tot Ion: 69 Resp: 1951

Ion Ratio Lower Upper

69 100

41 4192.8 61.1 91.7#

39 1871.0 42.2 63.4#



#57

1,3-Dichloropropane

Concen: 1.139 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063848.D

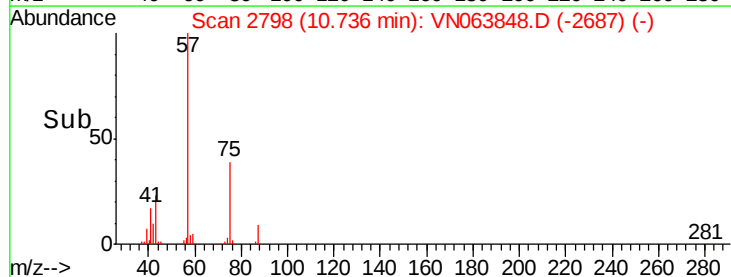
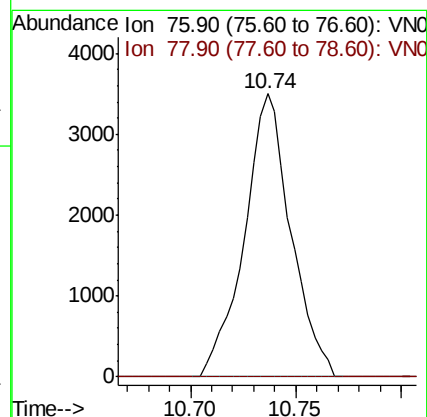
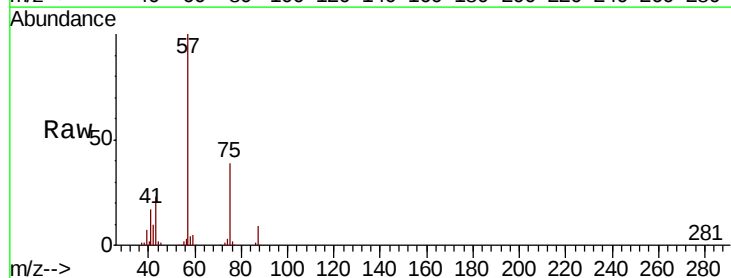
Acq: 3 Oct 2020 3:08

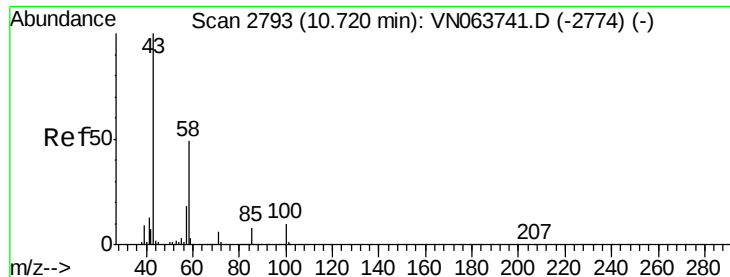
Tgt Ion: 76 Resp: 5364

Ion Ratio Lower Upper

76 100

78 0.0 25.2 37.8#

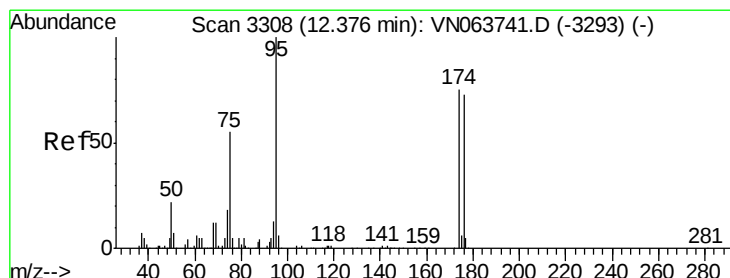
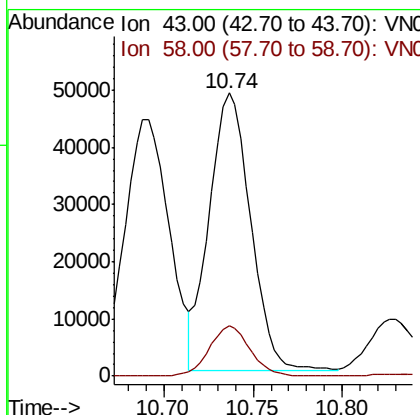
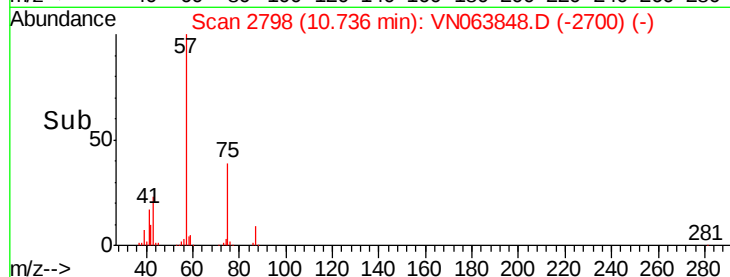
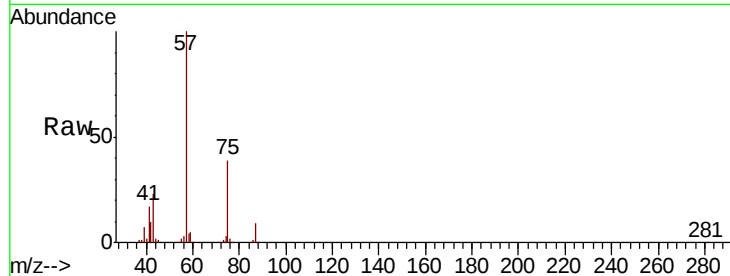




#59
2-Hexanone
Concen: 27.884 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN063848.D
Acq: 3 Oct 2020 3:08

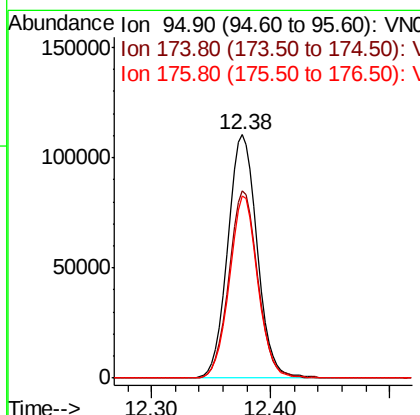
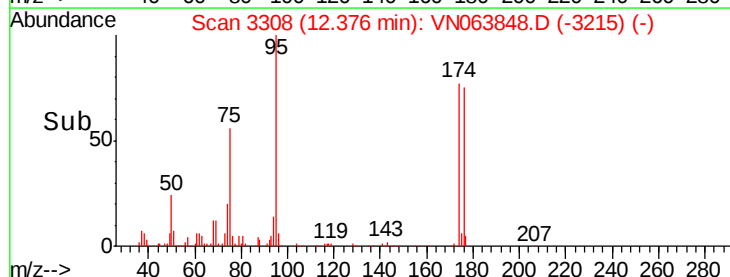
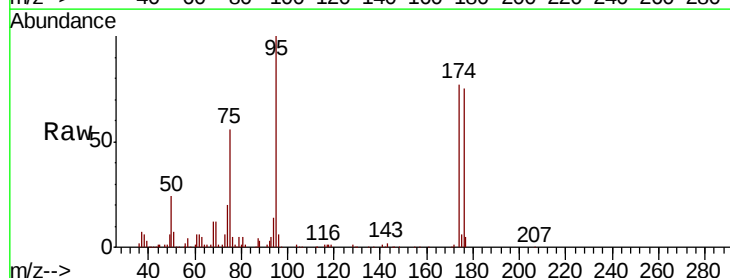
Instrument :
MSVOA_N
ClientSampled :
RO-25

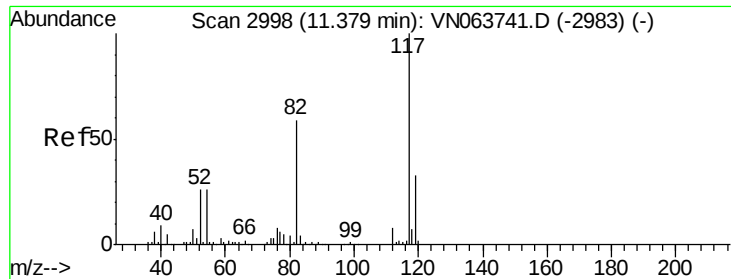
Tot Ion: 43 Resp: 78246
Ion Ratio Lower Upper
43 100
58 17.8 24.6 73.8#



#62
4-Bromofluorobenzene
Concen: 49.167 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN063848.D
Acq: 3 Oct 2020 3:08

Tgt Ion: 95 Resp: 188488
Ion Ratio Lower Upper
95 100
174 75.6 0.0 150.6
176 72.6 0.0 145.4

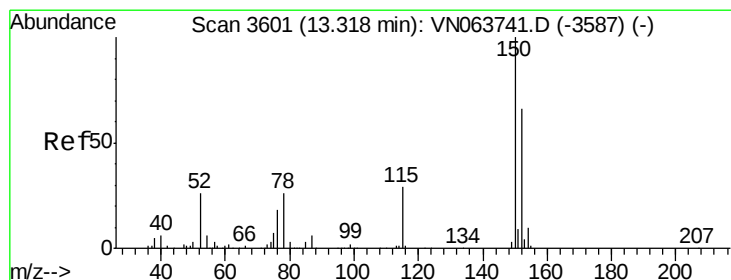
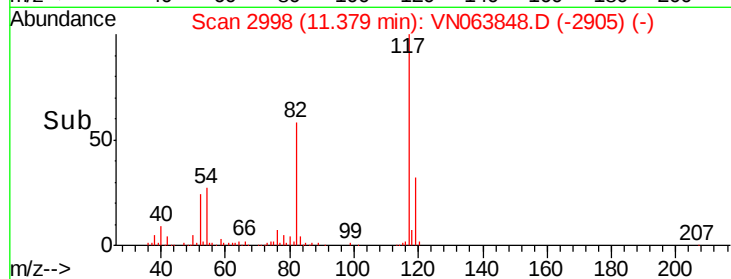
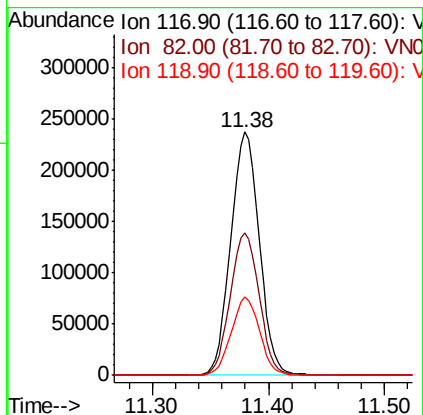
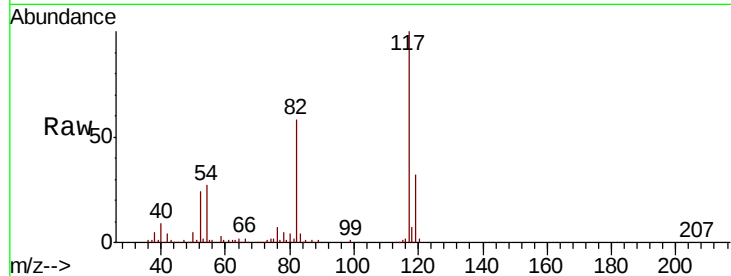




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063848.D
Acq: 3 Oct 2020 3:08

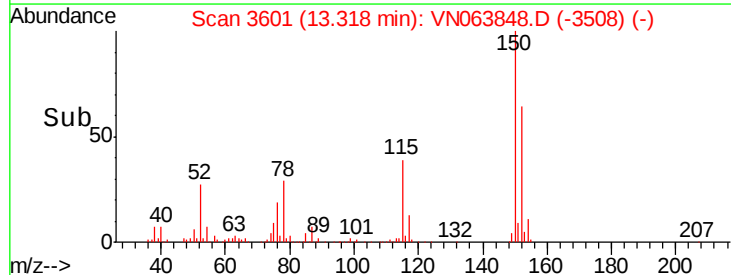
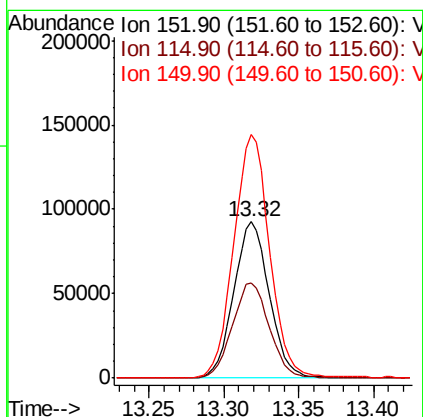
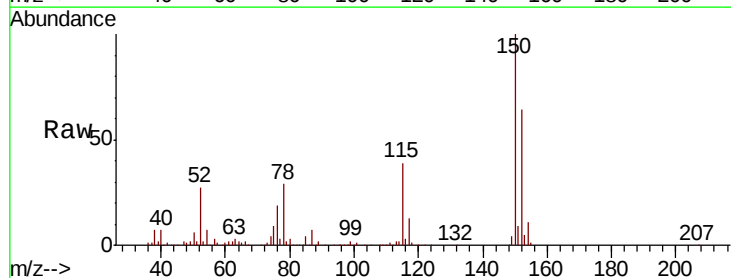
Instrument :
MSVOA_N
ClientSampleId :
RO-25

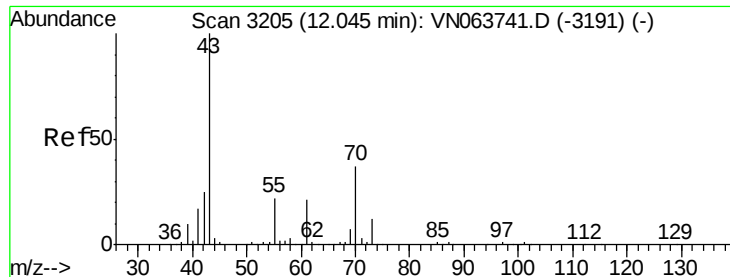
Tot Ion:117 Resp: 403394
Ion Ratio Lower Upper
117 100
82 58.4 47.4 71.2
119 32.0 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN063848.D
Acq: 3 Oct 2020 3:08

Tgt Ion:152 Resp: 153083
Ion Ratio Lower Upper
152 100
115 63.2 31.3 93.8
150 156.9 0.0 341.8





#74

N-amvl acetate

Concen: 2.882 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063848.D

Acq: 3 Oct 2020 3:08

Instrument :

MSVOA_N

ClientSampled :

RO-25

Tot Ion: 43 Resp: 3619

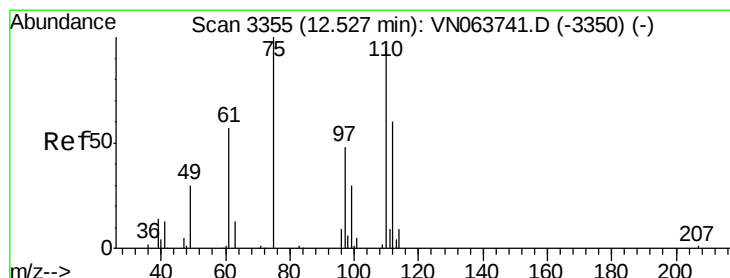
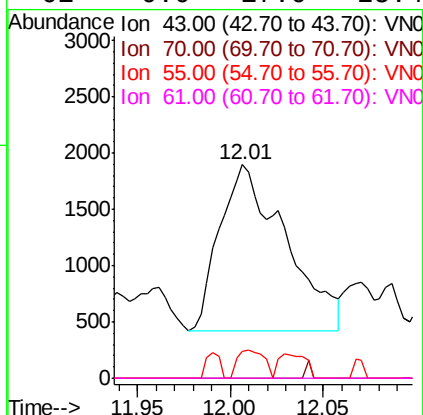
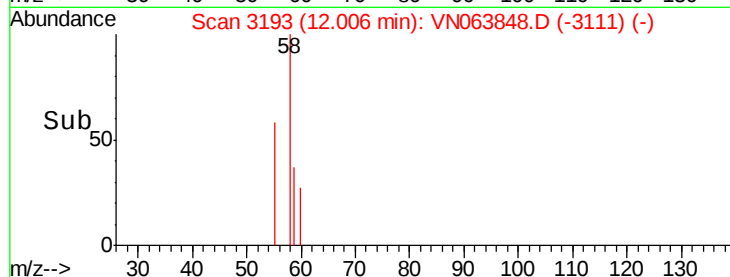
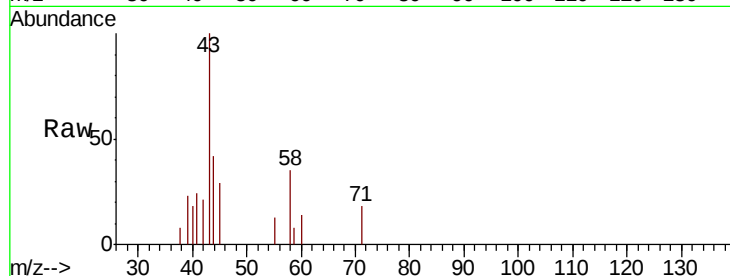
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 6.8 17.9 26.9#

61 0.0 17.0 25.4#



#76

1,2,3-Trichloropropane

Concen: 31.563 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063848.D

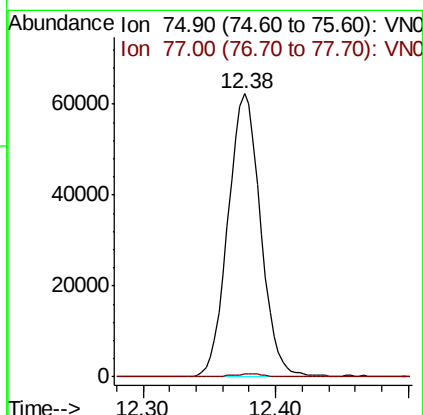
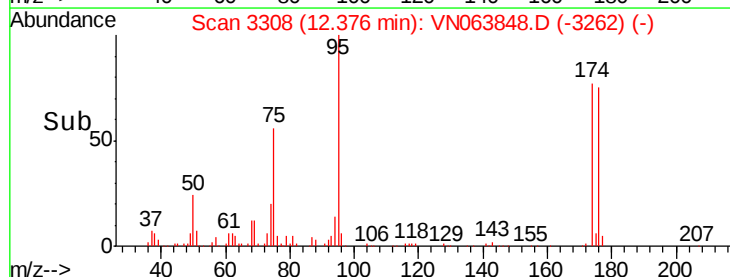
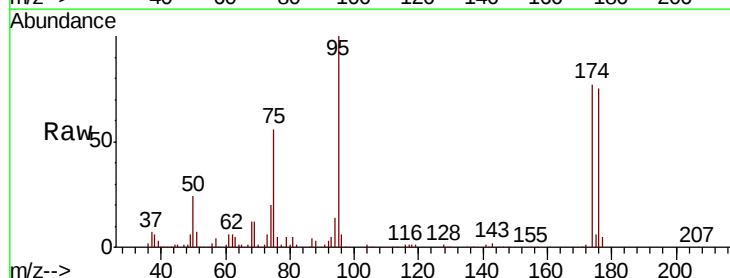
Acq: 3 Oct 2020 3:08

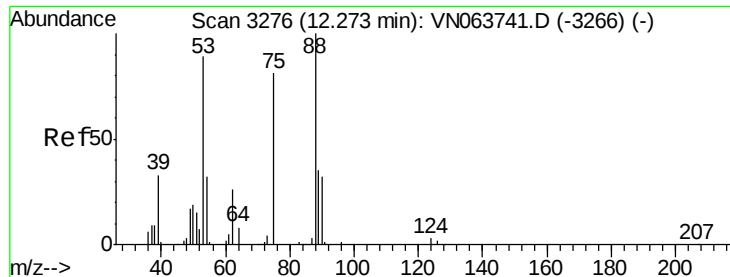
Tgt Ion: 75 Resp: 106510

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 90.905 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063848.D

Acq: 3 Oct 2020 3:08

Instrument :

MSVOA_N

ClientSampled :

RO-25

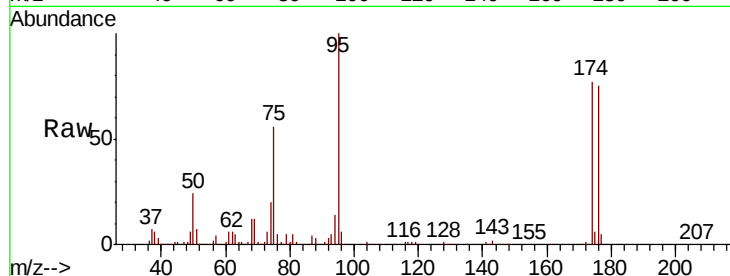
Tot Ion: 75 Resp: 106510

Ion Ratio Lower Upper

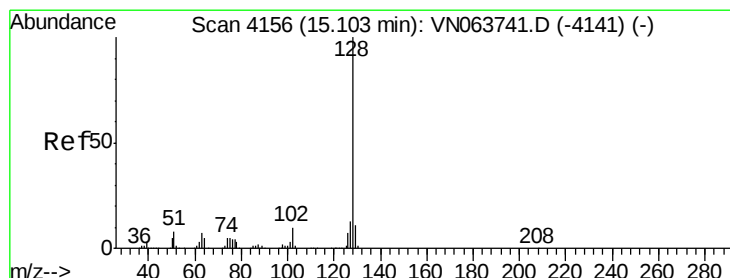
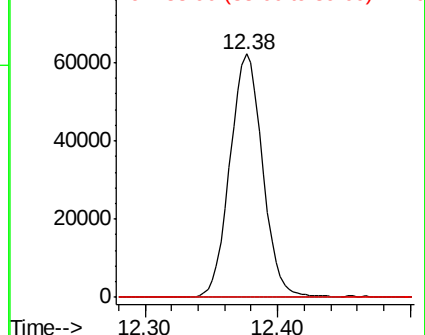
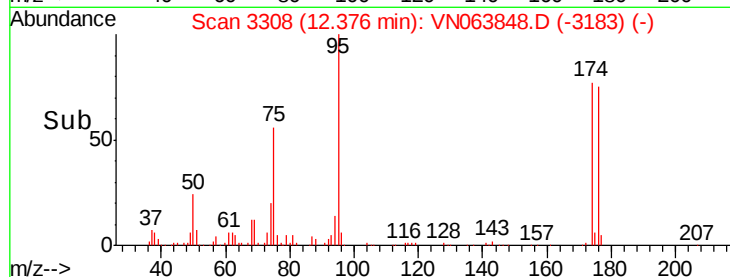
75 100

53 0.2 88.2 132.2#

89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN063848.D (-3183) (-)



#95

Naphthalene

Concen: 1.932 ug/l

RT: 15.12 min Scan# 4160

Delta R.T. 0.01 min

Lab File: VN063848.D

Acq: 3 Oct 2020 3:08

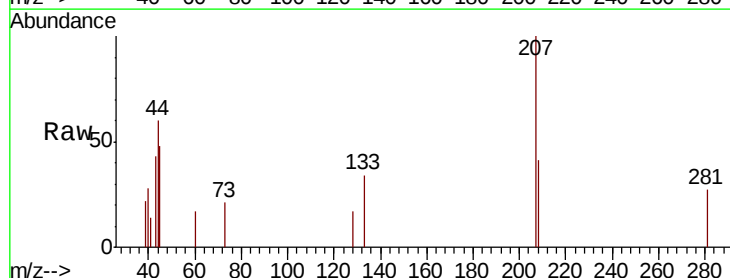
Tgt Ion: 128 Resp: 66

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): VN063848.D (-4062) (-)

