

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100220\
 Data File : VN063849.D
 Acq On : 3 Oct 2020 3:32
 Operator : JC/MD
 Sample : L4198-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-24

Quant Time: Oct 05 04:24:37 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	204161	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	394548	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	404995	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	160555	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	182579	54.13	ug/l	0.00
Spiked Amount			Recovery	=	108.26%	
35) Dibromofluoromethane	7.55	113	131376	47.99	ug/l	0.00
Spiked Amount			Recovery	=	95.98%	
50) Toluene-d8	10.06	98	494972	47.69	ug/l	0.00
Spiked Amount			Recovery	=	95.38%	
62) 4-Bromofluorobenzene	12.38	95	192278	49.29	ug/l	0.00
Spiked Amount			Recovery	=	98.58%	

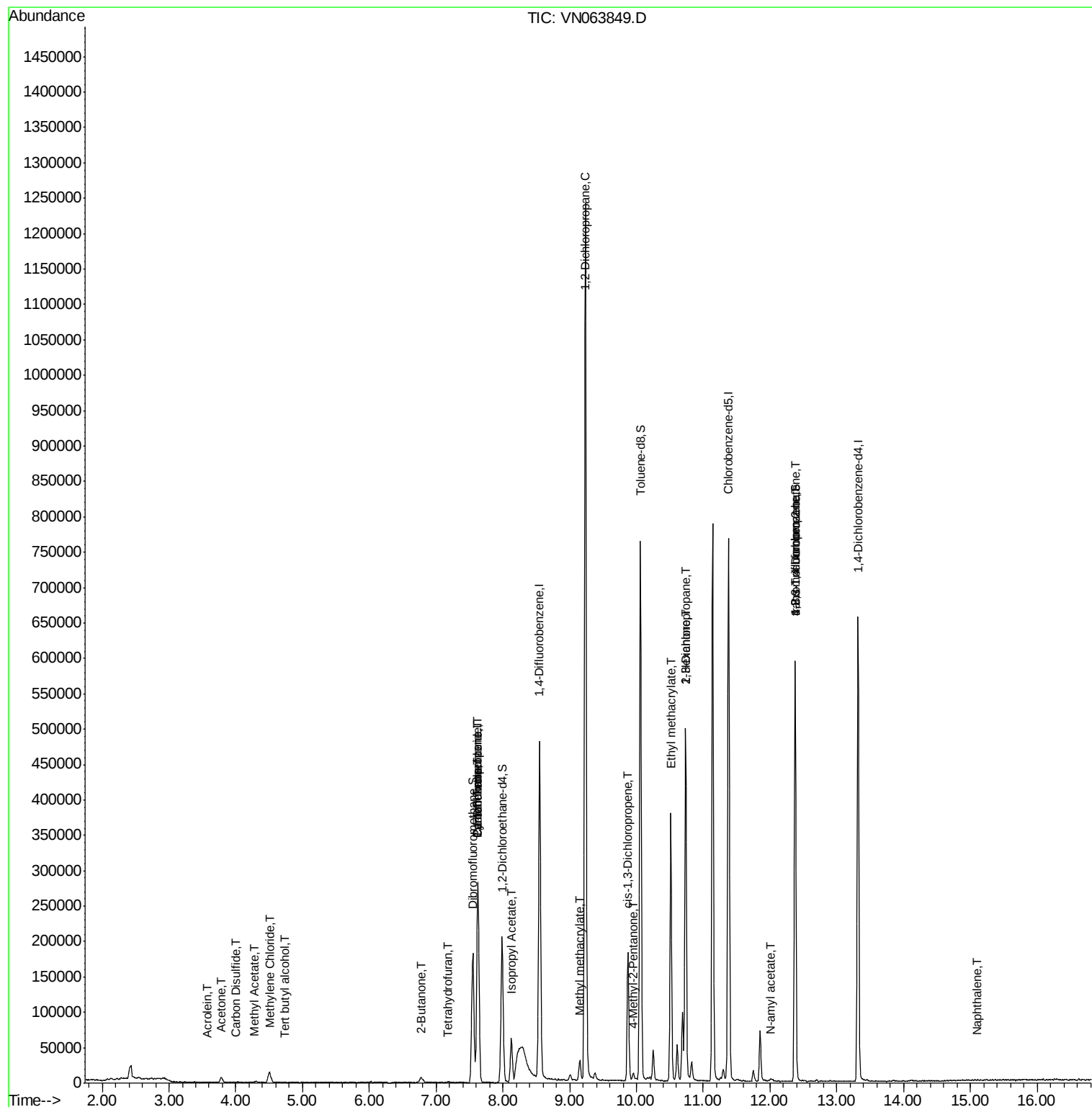
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	126	0.338	ug/l #	71
13) Acrolein	3.58	56	58	0.254	ug/l #	14
16) Acetone	3.78	43	12059	11.614	ug/l	99
17) Carbon Disulfide	4.02	76	34	0.707	ug/l #	76
18) Methyl Acetate	4.28	43	1557	0.578	ug/l	98
20) Methylene Chloride	4.50	84	9973	4.283	ug/l	88
25) 2-Butanone	6.79	43	1173	0.797	ug/l #	51
29) Tetrahydrofuran	7.18	42	943	0.955	ug/l #	46
31) Cyclohexane	7.62	56	6052	1.546	ug/l #	29
36) 1,1-Dichloropropene	7.62	75	18993	4.752	ug/l #	52
38) Carbon Tetrachloride	7.62	117	23320	5.203	ug/l #	14
43) Isopropyl Acetate	8.13	43	73134	11.165	ug/l	97
45) 1,2-Dichloropropane	9.24	63	1377	0.447	ug/l #	44
48) Methyl methacrylate	9.14	41	4943	1.527	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	6547	1.703	ug/l	98
54) cis-1,3-Dichloropropene	9.87	75	28744	5.849	ug/l #	72
56) Ethyl methacrylate	10.51	69	2291	0.571	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5126	1.070	ug/l #	43
59) 2-Hexanone	10.74	43	79870	27.970	ug/l #	54
74) N-amyl acetate	12.01	43	944	2.382	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	110952	31.349	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	110952	90.290	ug/l #	6
95) Naphthalene	15.11	128	210	1.948	ug/l #	69

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

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QLast Update : Thu Oct 01 01:46:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063849.D

Acq: 3 Oct 2020 3:32

Instrument :

MSVOA_N

ClientSampled :

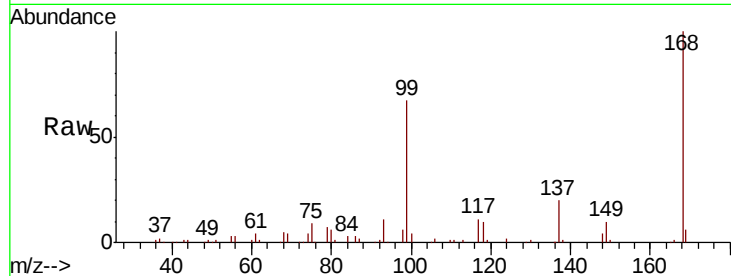
RO-24

Tot Ion:168 Resp: 204161

Ion Ratio Lower Upper

168 100

99 66.8 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

80000

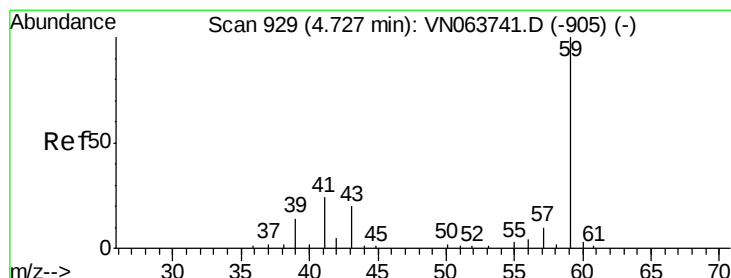
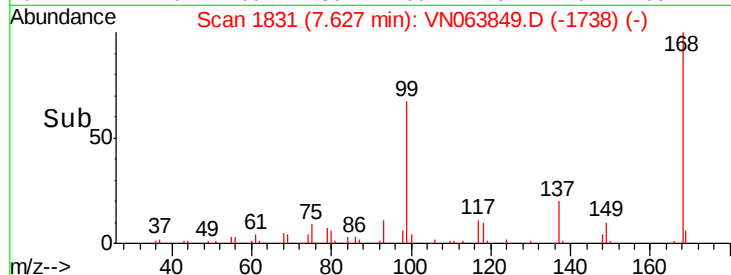
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.338 ug/l

RT: 4.74 min Scan# 932

Delta R.T. 0.01 min

Lab File: VN063849.D

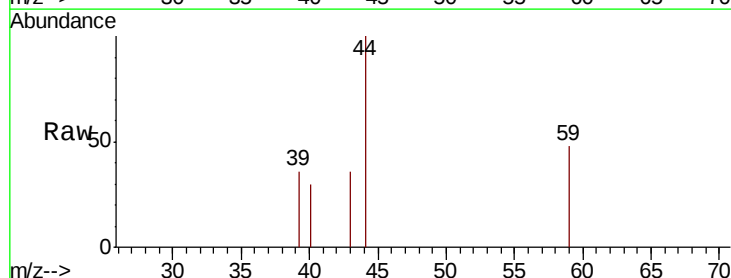
Acq: 3 Oct 2020 3:32

Tgt Ion: 59 Resp: 126

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.74

250

200

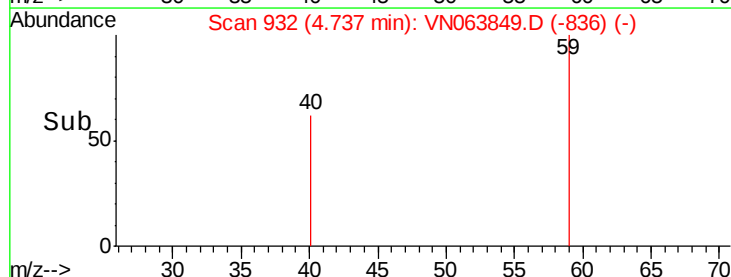
150

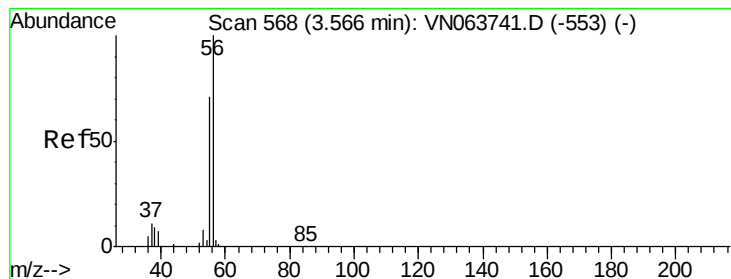
100

50

0

Time--> 4.72 4.73 4.74 4.75





#13

Acrolein

Concen: 0.254 ug/l

RT: 3.58 min Scan# 573

Delta R.T. 0.02 min

Lab File: VN063849.D

Acq: 3 Oct 2020 3:32

Instrument :

MSVOA_N

ClientSampleId :

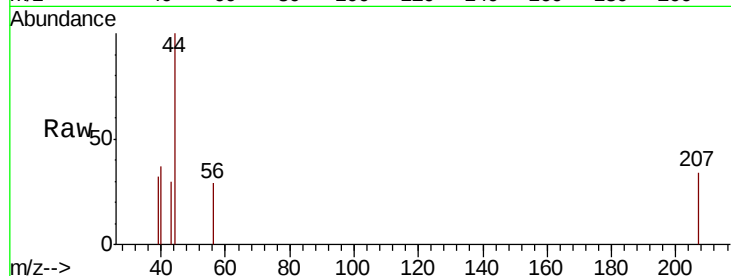
RO-24

Tot Ion: 56 Resp: 58

Ion Ratio Lower Upper

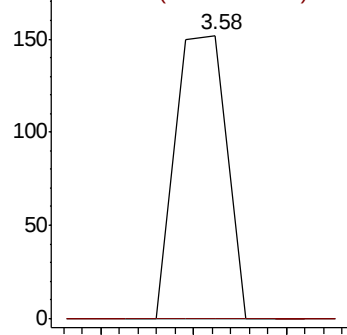
56 100

55 0.0 56.9 85.3#

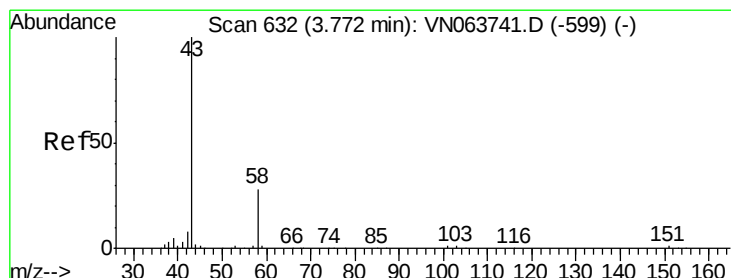
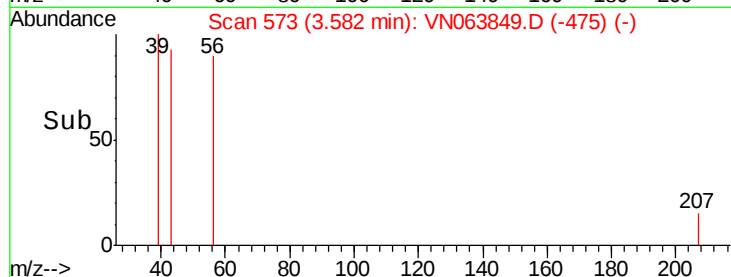


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->



#16

Acetone

Concen: 11.614 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063849.D

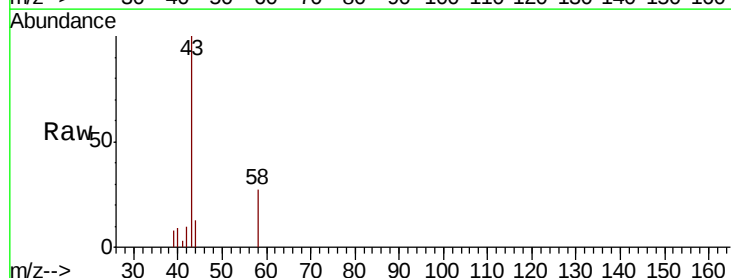
Acq: 3 Oct 2020 3:32

Tgt Ion: 43 Resp: 12059

Ion Ratio Lower Upper

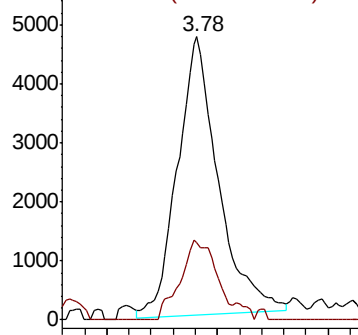
43 100

58 28.4 22.3 33.5

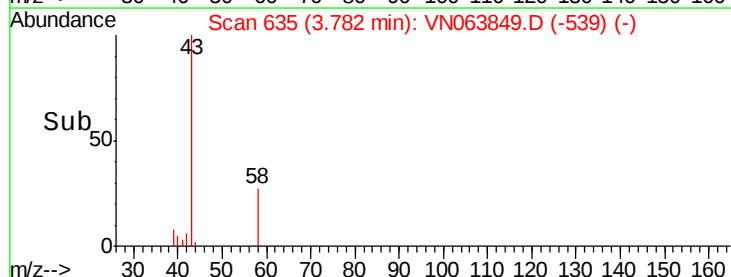


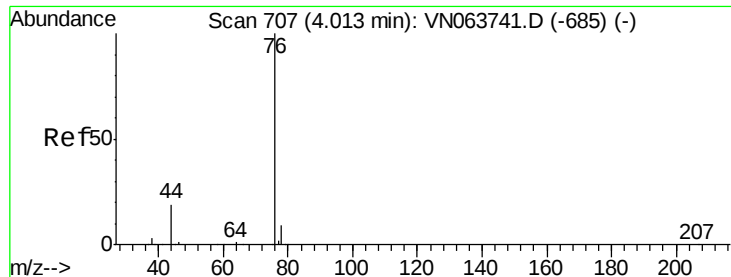
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->





#17

Carbon Disulfide

Concen: 0.707 ug/l

RT: 4.02 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN063849.D

Acq: 3 Oct 2020 3:32

Instrument :

MSVOA_N

ClientSampleId :

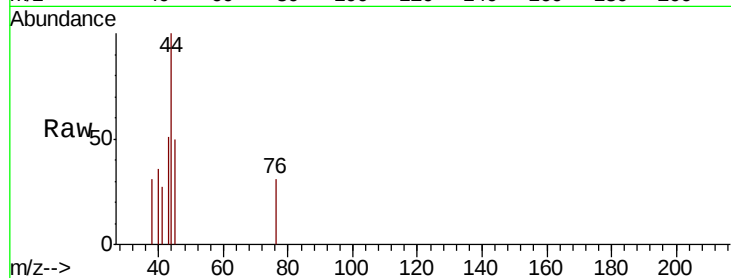
RO-24

Tot Ion: 76 Resp: 34

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.02

200

150

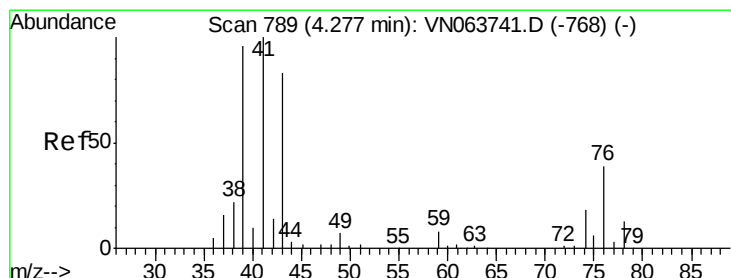
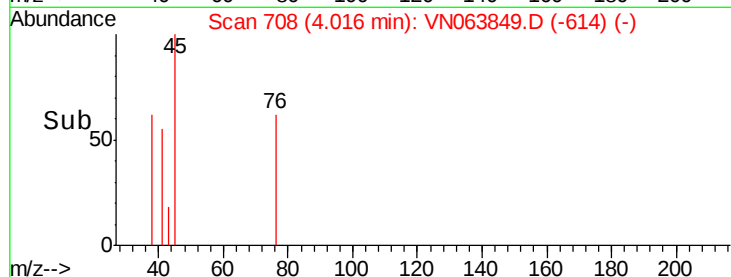
100

50

0

4.00 4.01 4.02 4.03

Time-->



#18

Methyl Acetate

Concen: 0.578 ug/l

RT: 4.28 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN063849.D

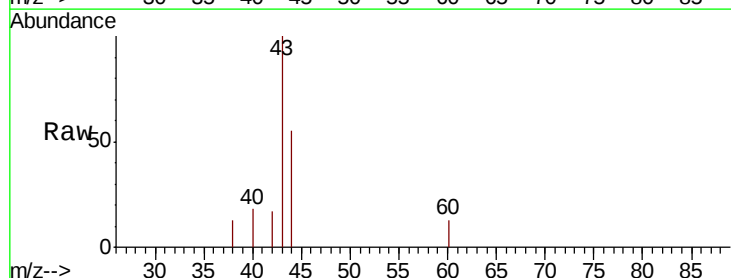
Acq: 3 Oct 2020 3:32

Tgt Ion: 43 Resp: 1557

Ion Ratio Lower Upper

43 100

74 20.6 17.4 26.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

1500

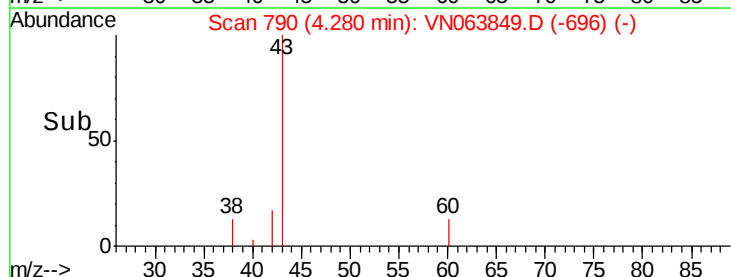
1000

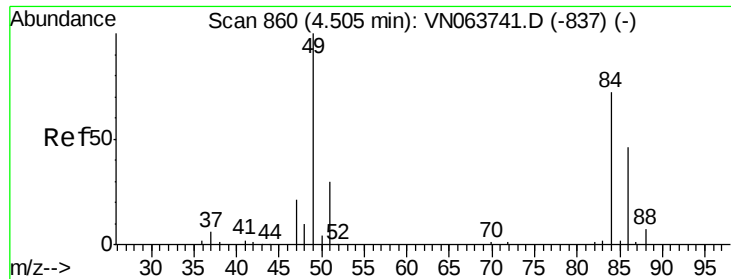
500

0

4.24 4.26 4.28 4.30

Time-->

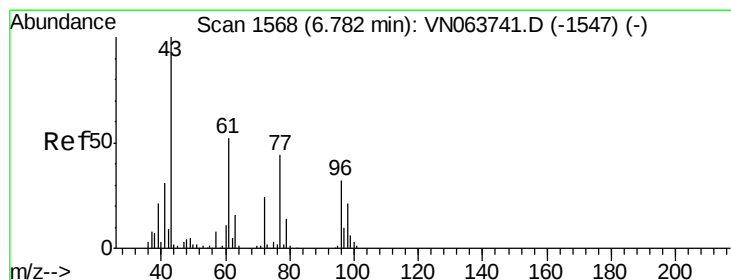
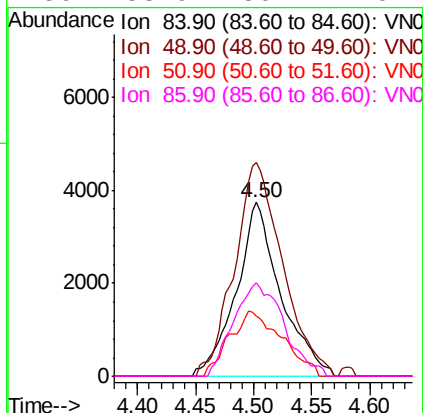
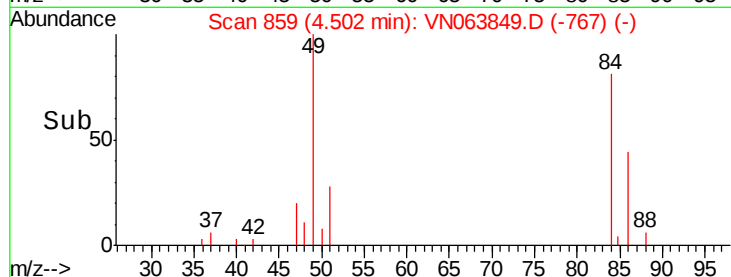
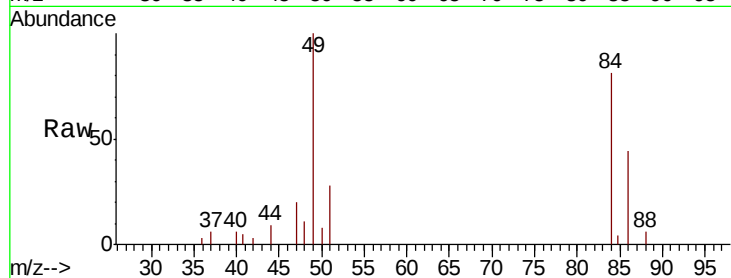




#20
Methvlene Chloride
Concen: 4.283 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN063849.D
Acq: 3 Oct 2020 3:32

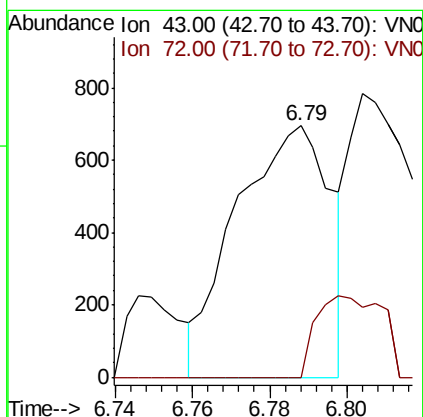
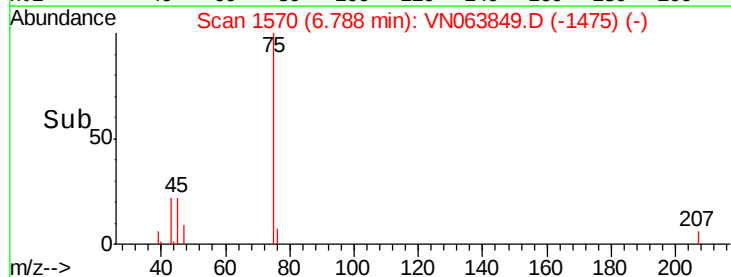
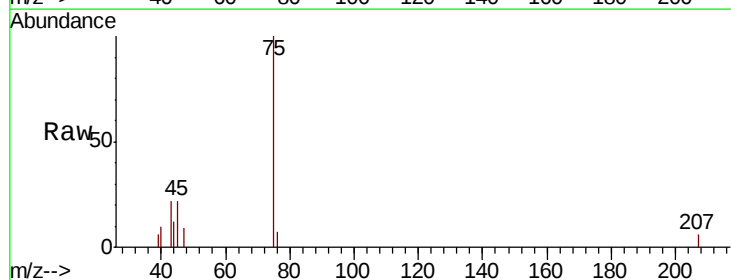
Instrument :
MSVOA_N
ClientSampled :
RO-24

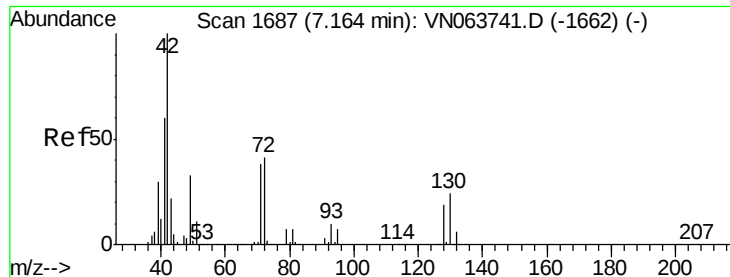
Tot Ion:	84	Resp:	9973
Ion	Ratio	Lower	Upper
84	100		
49	122.9	110.4	165.6
51	34.7	33.3	49.9
86	53.9	50.7	76.1



#25
2-Butanone
Concen: 0.797 ug/l
RT: 6.79 min Scan# 1570
Delta R.T. 0.01 min
Lab File: VN063849.D
Acq: 3 Oct 2020 3:32

Tgt Ion:	43	Resp:	1173
Ion	Ratio	Lower	Upper
43	100		
72	0.0	19.3	28.9#





#29

Tetrahydrofuran

Concen: 0.955 ug/l

RT: 7.18 min Scan# 1692

Delta R.T. 0.02 min

Lab File: VN063849.D

Acq: 3 Oct 2020 3:32

Instrument :

MSVOA_N

ClientSampled :

RO-24

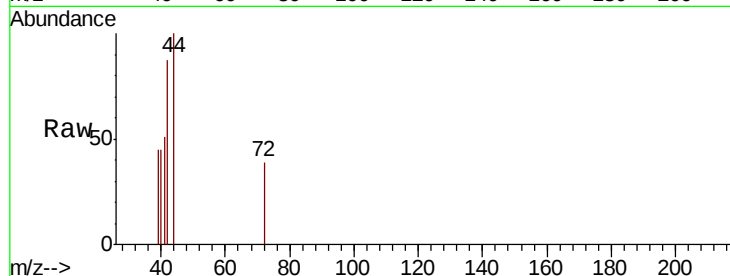
Tot Ion: 42 Resp: 943

Ion Ratio Lower Upper

42 100

72 12.6 32.8 49.2#

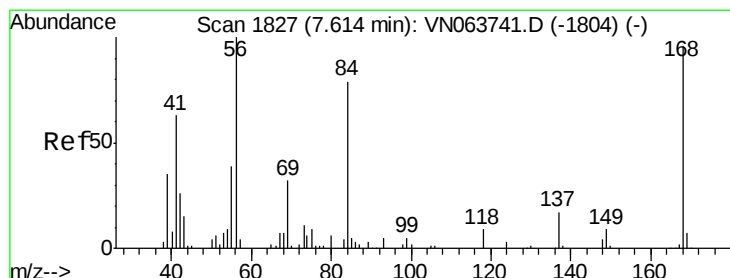
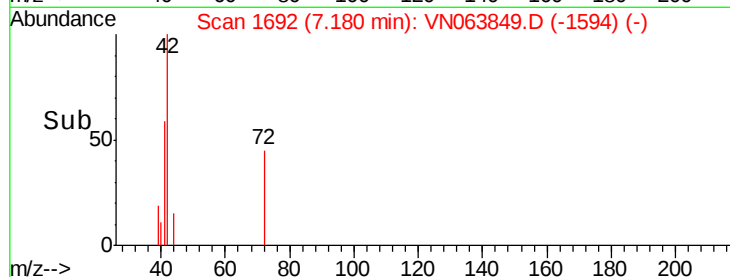
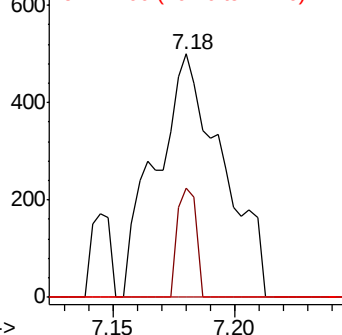
71 0.0 30.6 45.8#



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



#31

Cyclohexane

Concen: 1.546 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063849.D

Acq: 3 Oct 2020 3:32

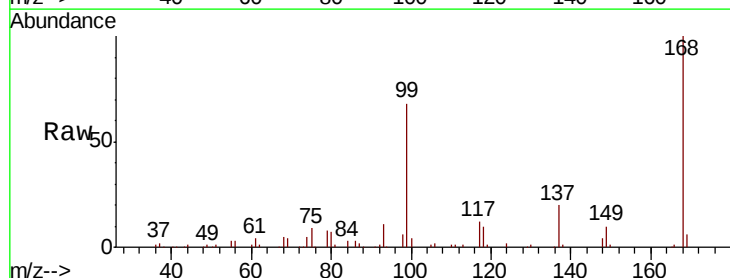
Tgt Ion: 56 Resp: 6052

Ion Ratio Lower Upper

56 100

69 150.8 25.4 38.2#

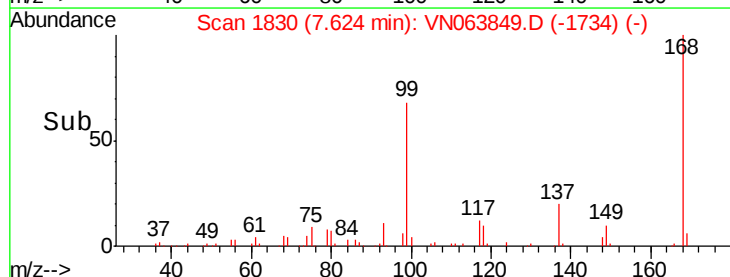
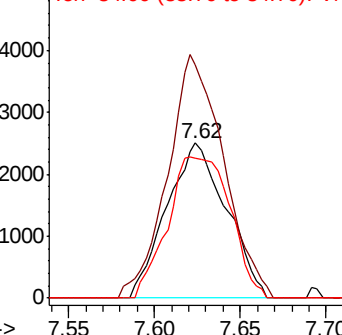
84 90.4 63.3 94.9

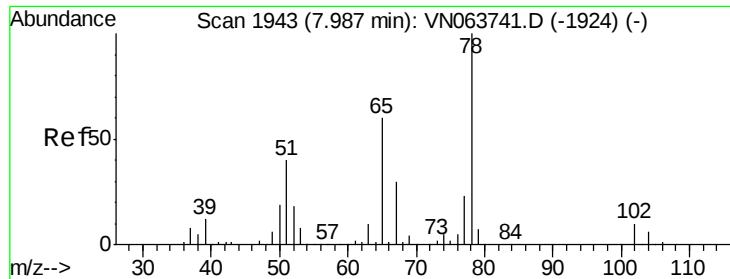


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

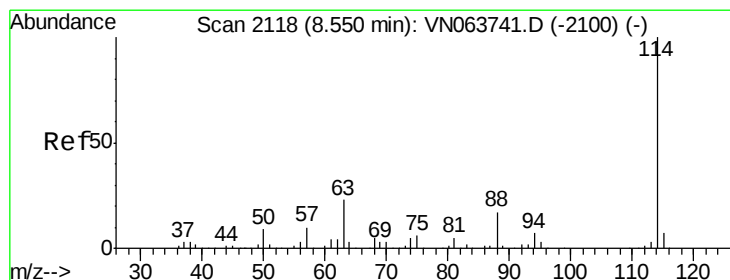
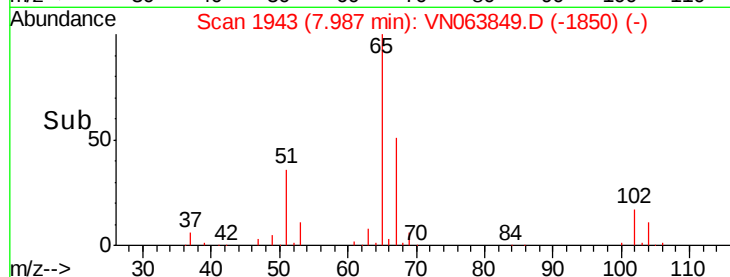
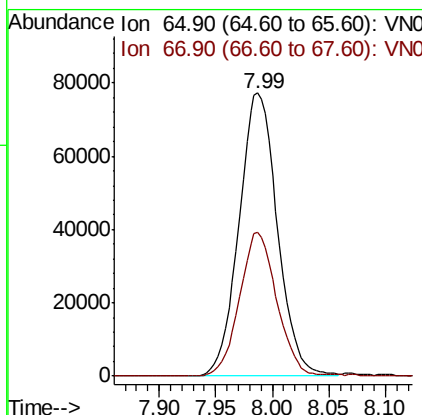
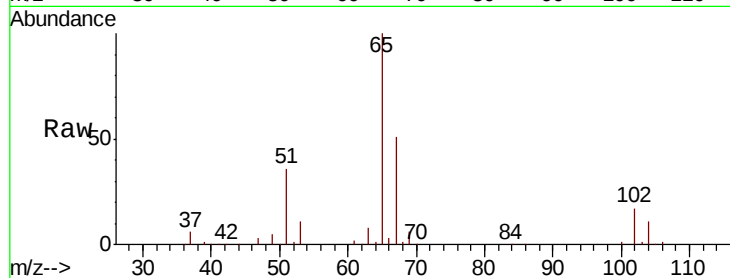




#33
 1,2-Dichloroethane-d4
 Concen: 54.132 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN063849.D
 Acq: 3 Oct 2020 3:32

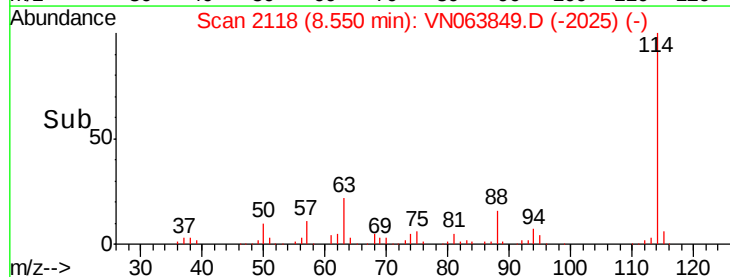
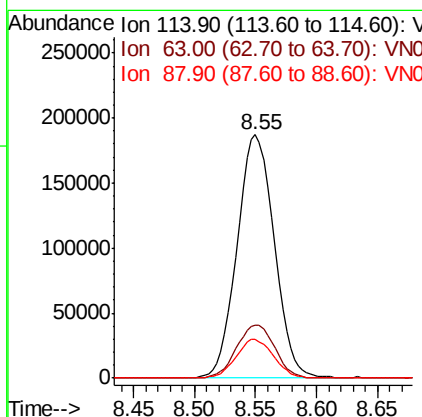
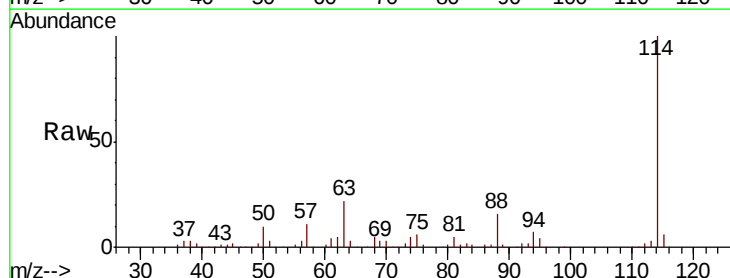
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 RO-24

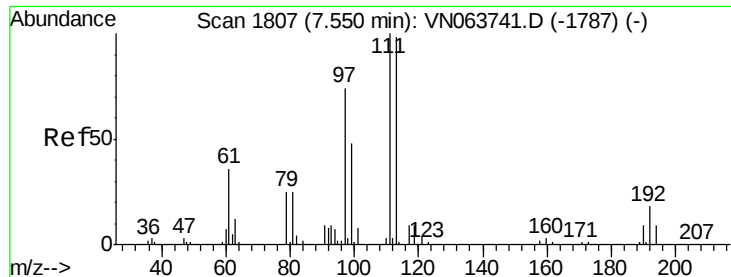
Tot Ion: 65 Resp: 182579
 Ion Ratio Lower Upper
 65 100
 67 49.4 0.0 99.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN063849.D
 Acq: 3 Oct 2020 3:32

Tgt Ion: 114 Resp: 394548
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 45.0
 88 15.8 0.0 34.0

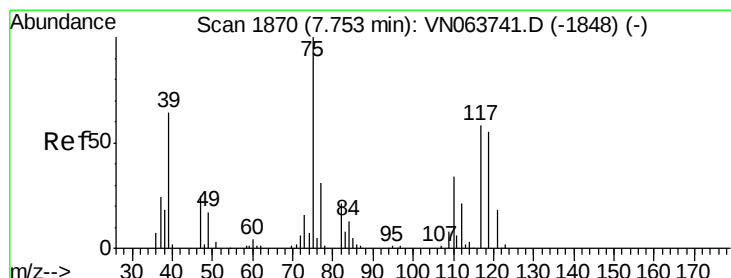
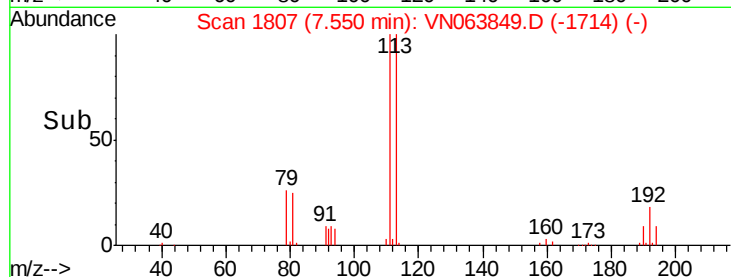
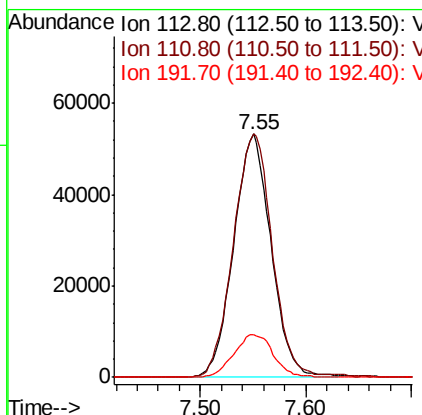
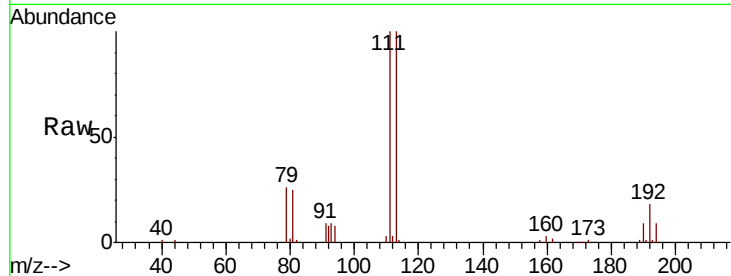




#35
 Dibromofluoromethane
 Concen: 47.988 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063849.D
 Acq: 3 Oct 2020 3:32

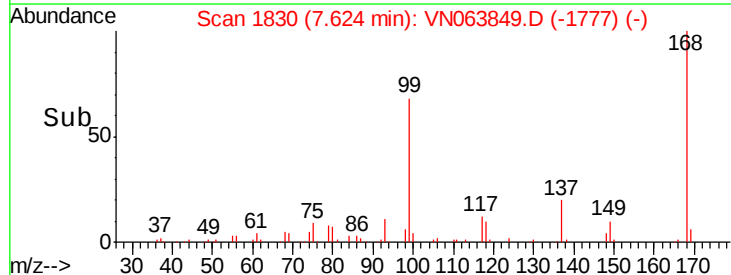
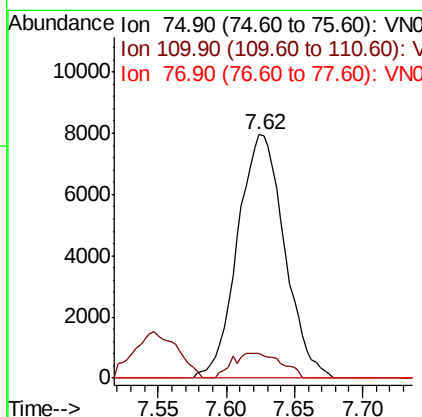
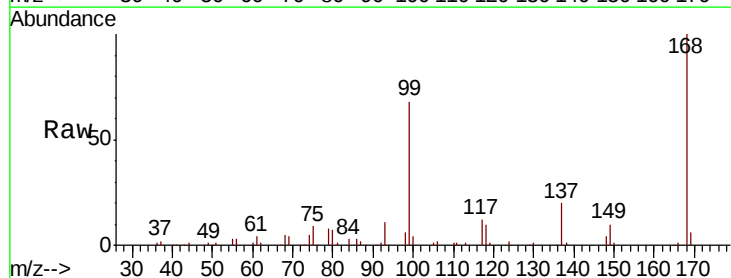
Instrument :
 MSVOA_N
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 RO-24

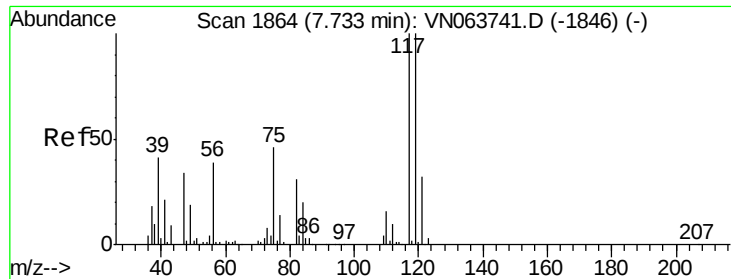
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.8	122.8
192	18.5	14.2	21.2



#36
 1,1-Dichloropropene
 Concen: 4.752 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063849.D
 Acq: 3 Oct 2020 3:32

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.7	16.9	50.6#
77	0.0	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 5.203 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063849.D

Acq: 3 Oct 2020 3:32

Instrument :

MSVOA_N

ClientSampled :

RO-24

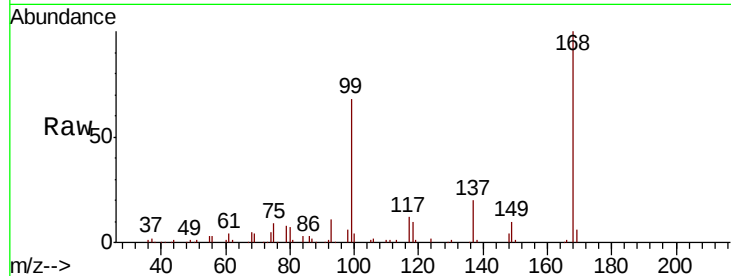
Tot Ion:117 Resp: 23320

Ion Ratio Lower Upper

117 100

119 4.7 80.1 120.1#

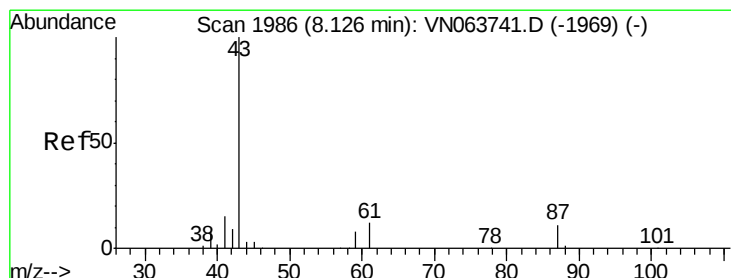
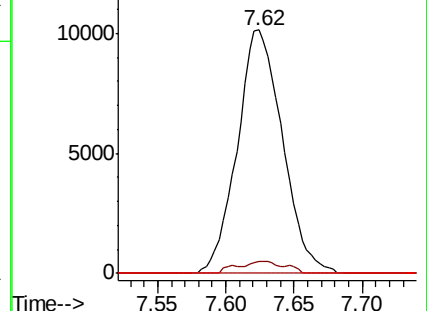
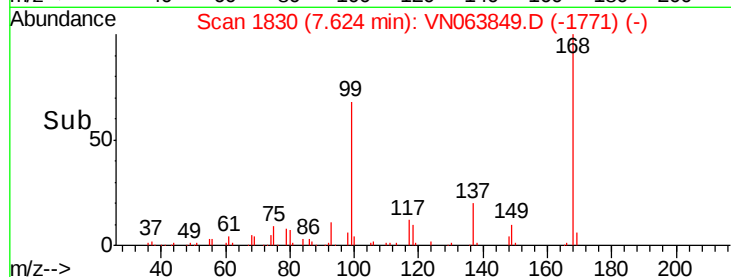
121 0.0 25.7 38.5#



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: 11.165 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063849.D

Acq: 3 Oct 2020 3:32

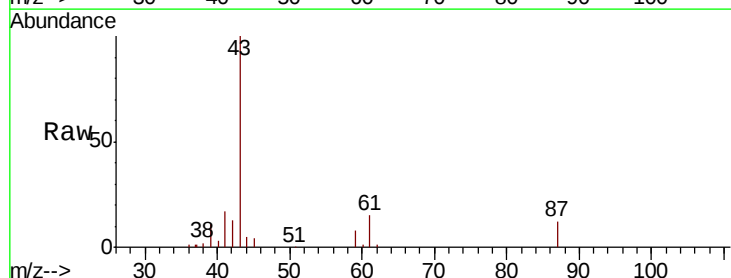
Tgt Ion: 43 Resp: 73134

Ion Ratio Lower Upper

43 100

61 16.1 14.2 21.4

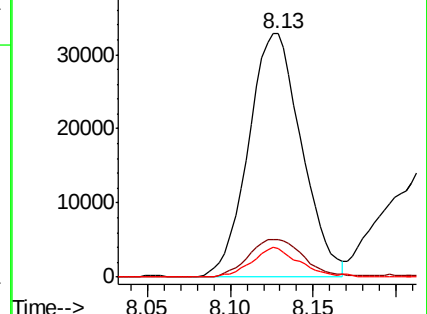
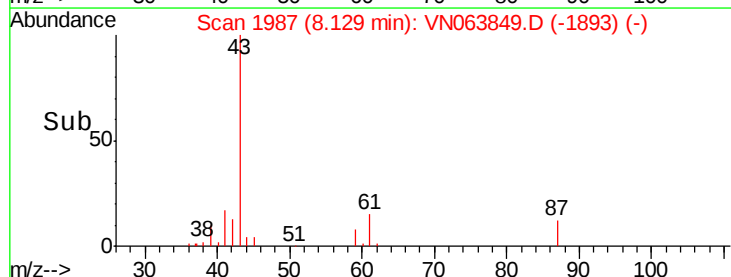
87 10.7 9.0 13.6

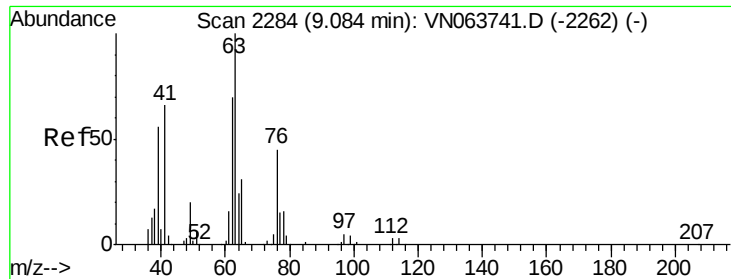


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.447 ug/l

RT: 9.24 min Scan# 2333

Delta R.T. 0.16 min

Lab File: VN063849.D

Acq: 3 Oct 2020 3:32

Instrument :

MSVOA_N

ClientSampleId :

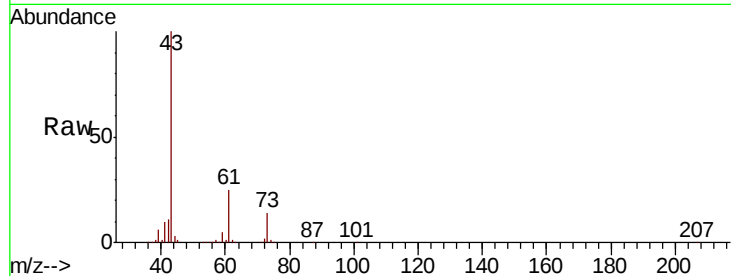
RO-24

Tot Ion: 63 Resp: 1377

Ion Ratio Lower Upper

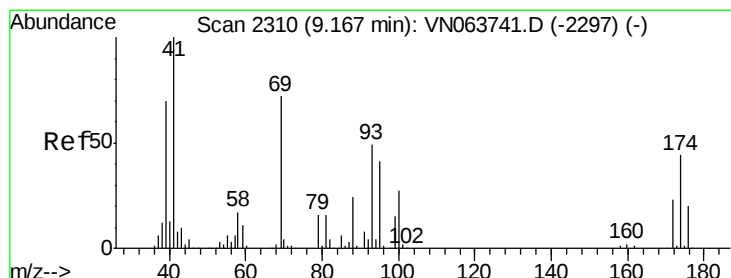
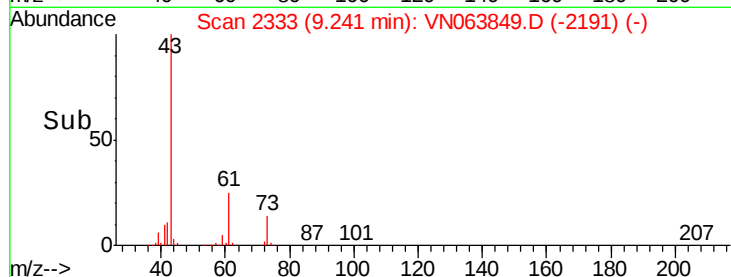
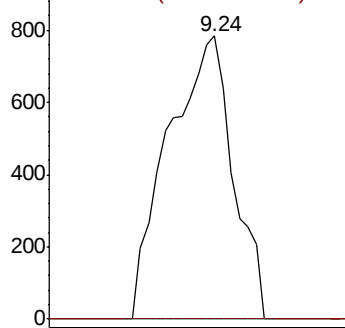
63 100

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: 1.527 ug/l

RT: 9.14 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN063849.D

Acq: 3 Oct 2020 3:32

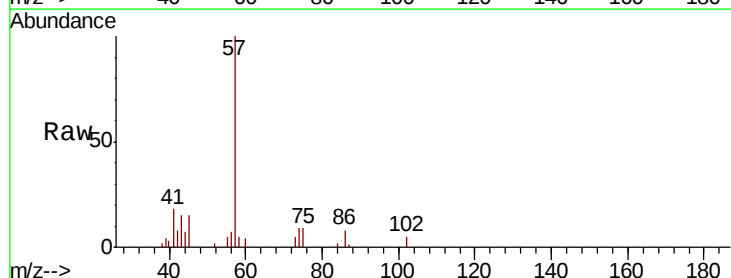
Tgt Ion: 41 Resp: 4943

Ion Ratio Lower Upper

41 100

69 0.0 60.9 91.3#

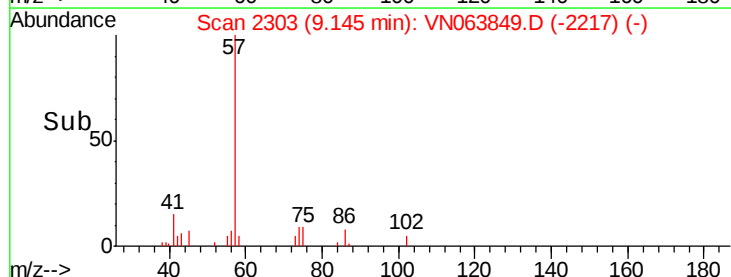
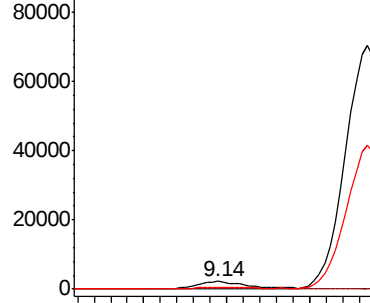
39 0.0 57.5 86.3#

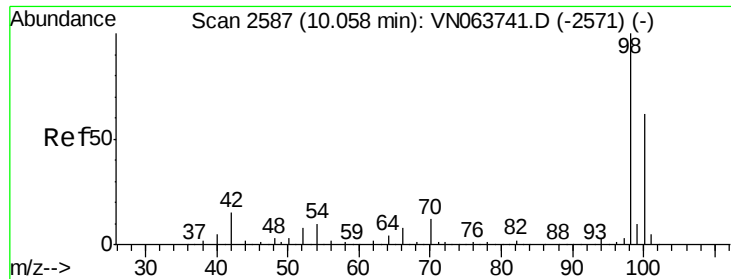


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 47.693 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN063849.D

Acq: 3 Oct 2020 3:32

Instrument :

MSVOA_N

ClientSampled :

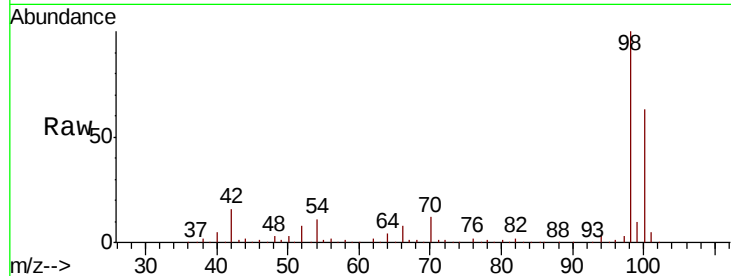
RO-24

Tot Ion: 98 Resp: 494972

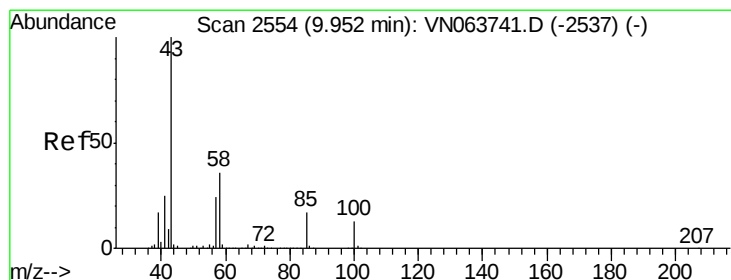
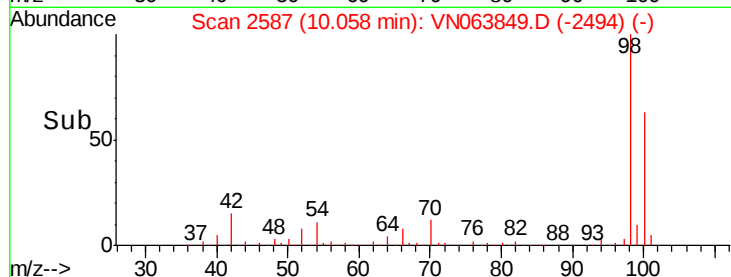
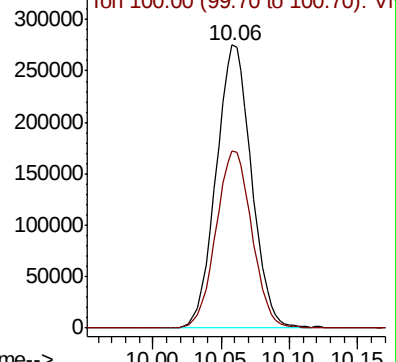
Ion Ratio Lower Upper

98 100

100 63.9 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN063741.D (-2571) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.703 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN063849.D

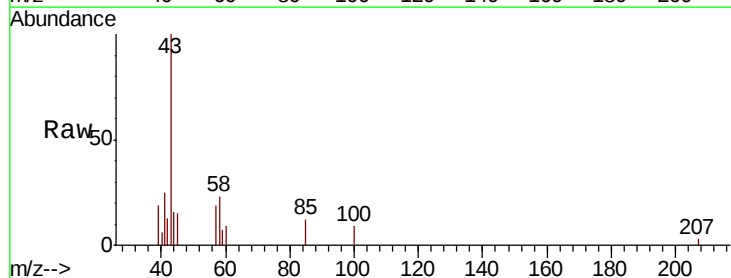
Acq: 3 Oct 2020 3:32

Tgt Ion: 43 Resp: 6547

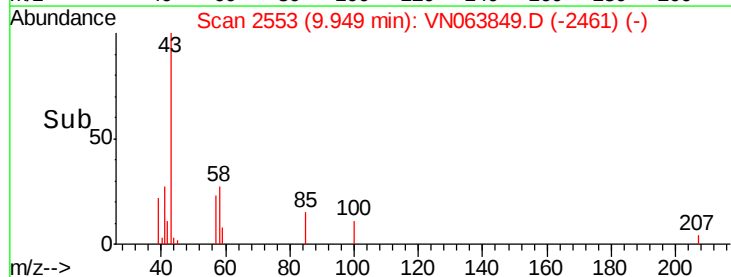
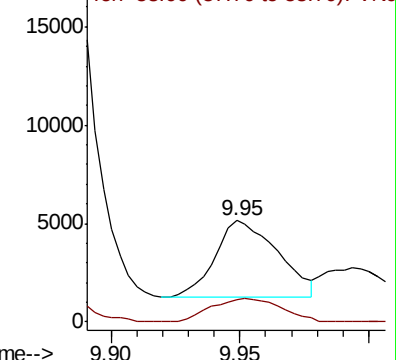
Ion Ratio Lower Upper

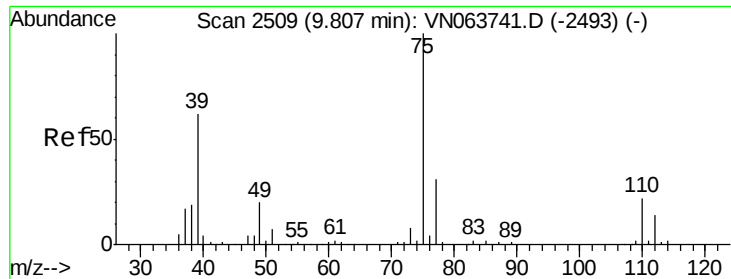
43 100

58 34.6 28.4 42.6



Abundance Ion 43.00 (42.70 to 43.70): VN063741.D (-2537) (-)

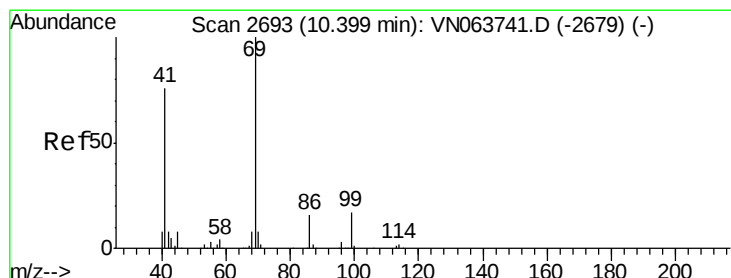
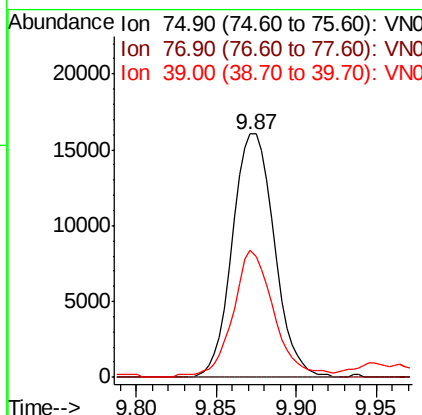
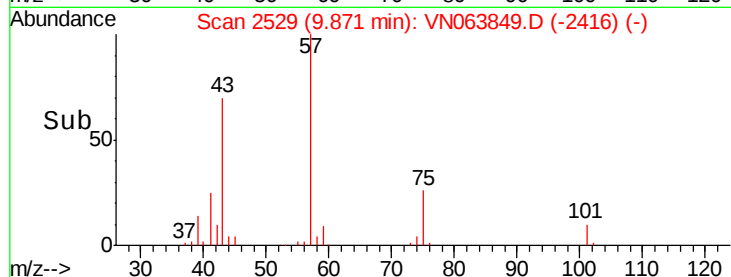
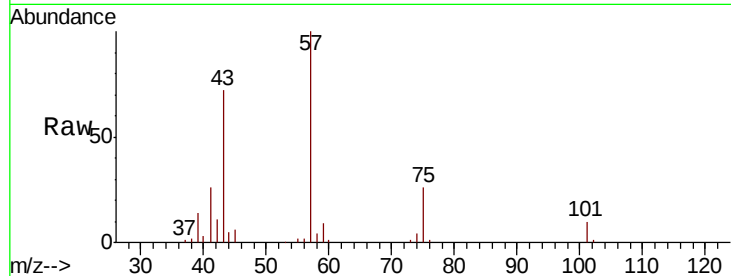




#54
 cis-1,3-Dichloropropene
 Concen: 5.849 ug/l
 RT: 9.87 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN063849.D
 Acq: 3 Oct 2020 3:32

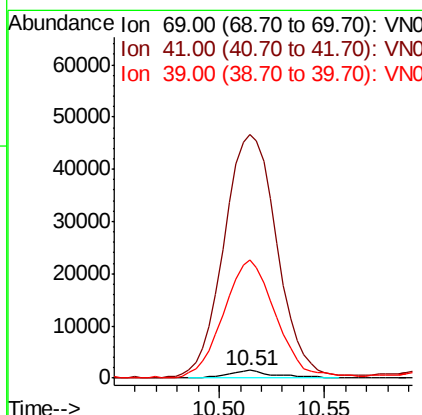
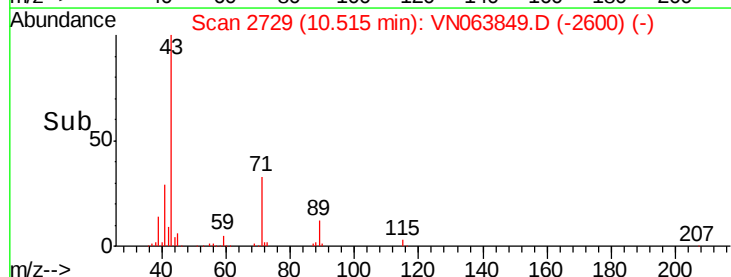
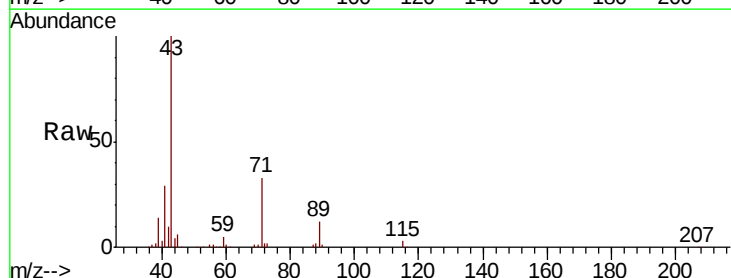
Instrument :
 MSVOA_N
 ClientSampleId :
 RO-24

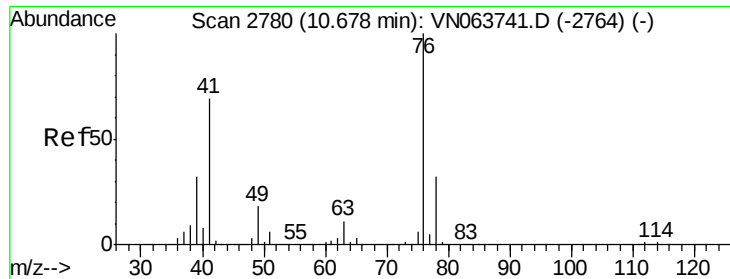
Tot Ion: 75 Resp: 28744
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 36.8#
 39 50.9 49.7 74.5



#56
 Ethyl methacrylate
 Concen: 0.571 ug/l
 RT: 10.51 min Scan# 2729
 Delta R.T. 0.12 min
 Lab File: VN063849.D
 Acq: 3 Oct 2020 3:32

Tgt Ion: 69 Resp: 2291
 Ion Ratio Lower Upper
 69 100
 41 3586.9 61.1 91.7#
 39 1712.9 42.2 63.4#

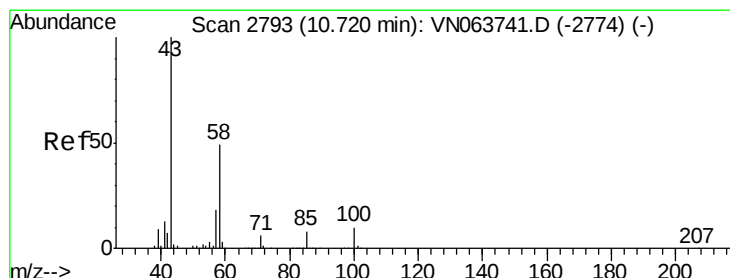
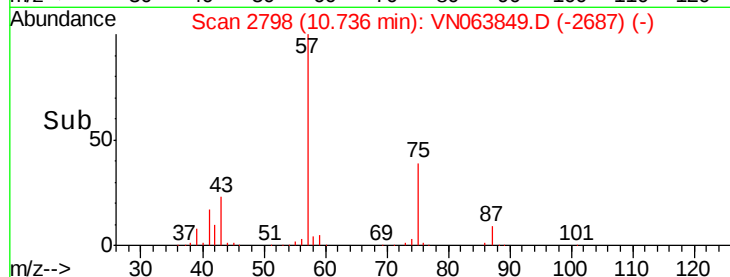
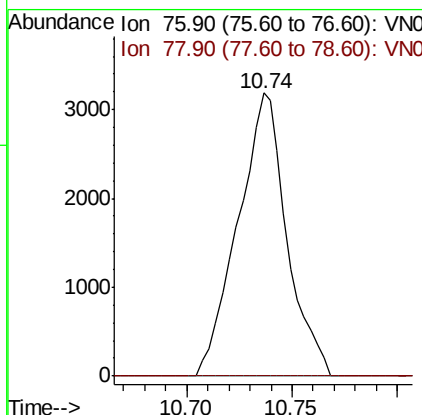
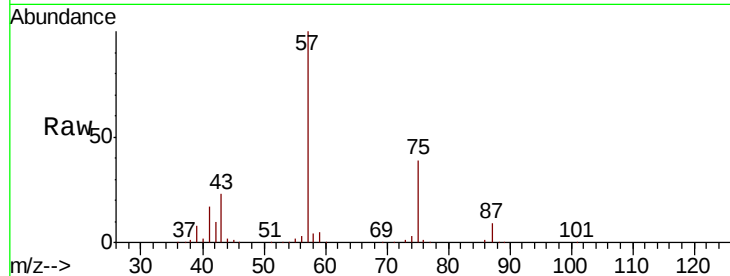




#57
 1,3-Dichloropropane
 Concen: 1.070 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.06 min
 Lab File: VN063849.D
 Acq: 3 Oct 2020 3:32

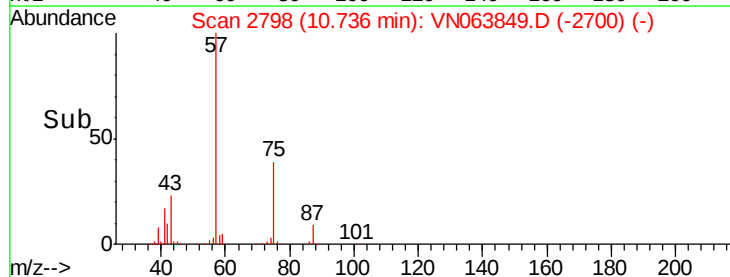
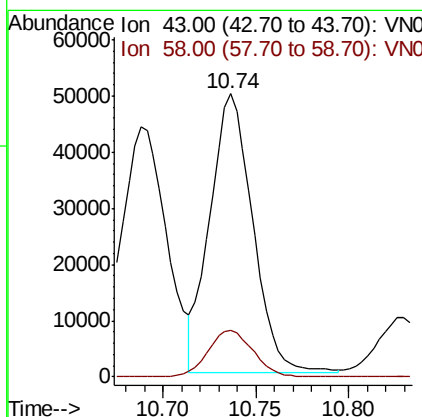
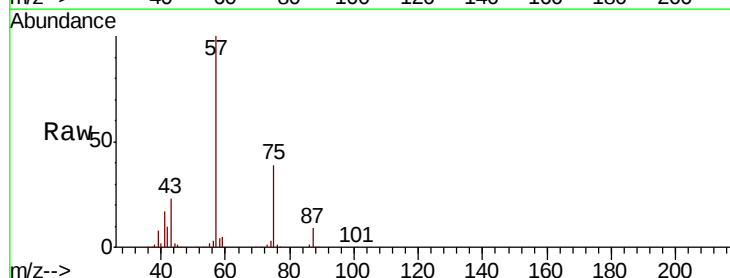
Instrument :
 MSVOA_N
 ClientSampleId :
 RO-24

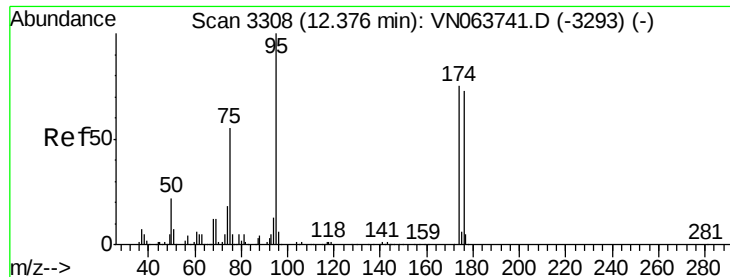
Tot Ion: 76 Resp: 5126
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.2 37.8#



#59
 2-Hexanone
 Concen: 27.970 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN063849.D
 Acq: 3 Oct 2020 3:32

Tgt Ion: 43 Resp: 79870
 Ion Ratio Lower Upper
 43 100
 58 17.6 24.6 73.8#





#62

4-Bromofluorobenzene

Concen: 49.286 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063849.D

Acq: 3 Oct 2020 3:32

Instrument :

MSVOA_N

ClientSampled :

RO-24

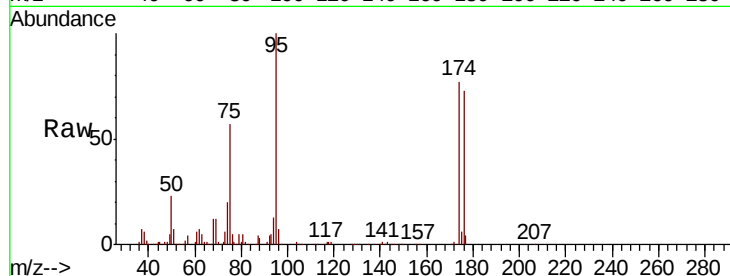
Tot Ion: 95 Resp: 192278

Ion Ratio Lower Upper

95 100

174 75.9 0.0 150.6

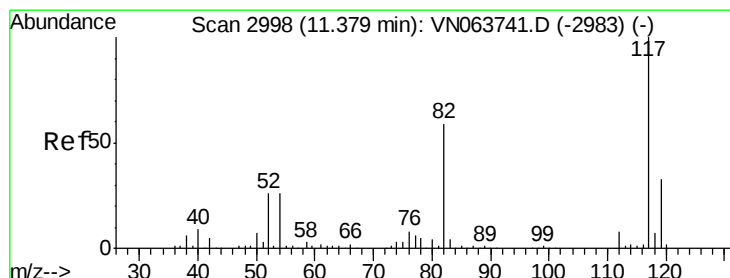
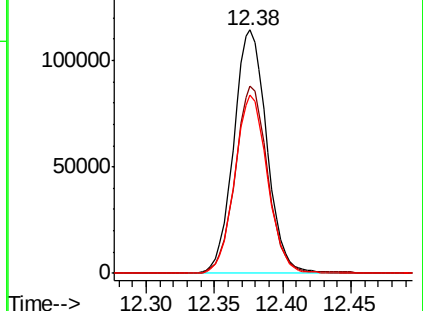
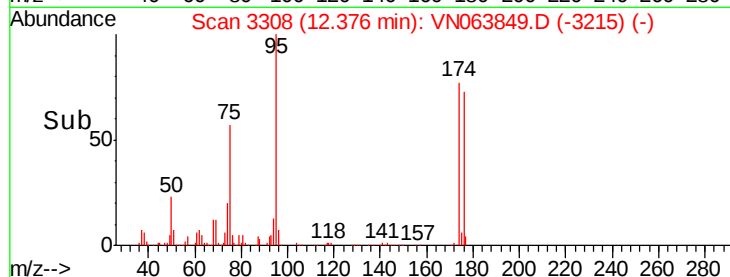
176 72.8 0.0 145.4



Abundance Ion 94.90 (94.60 to 95.60): VN063849.D (-3215) (-)

Ion 173.80 (173.50 to 174.50): VN063849.D (-3215) (-)

Ion 175.80 (175.50 to 176.50): VN063849.D (-3215) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN063849.D

Acq: 3 Oct 2020 3:32

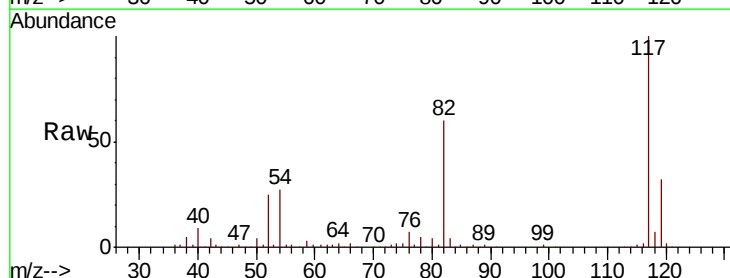
Tgt Ion: 117 Resp: 404995

Ion Ratio Lower Upper

117 100

82 60.2 47.4 71.2

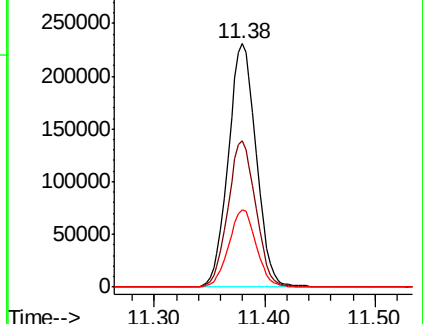
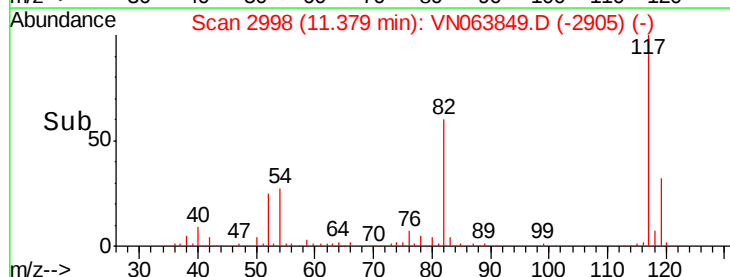
119 31.6 26.4 39.6

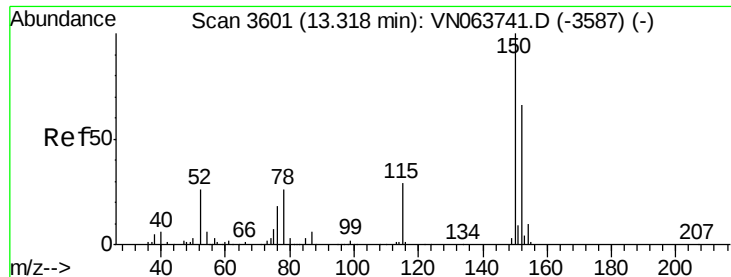


Abundance Ion 116.90 (116.60 to 117.60): VN063849.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN063849.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063849.D (-2905) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063849.D

Acq: 3 Oct 2020 3:32

Instrument :

MSVOA_N

ClientSampleId :

RO-24

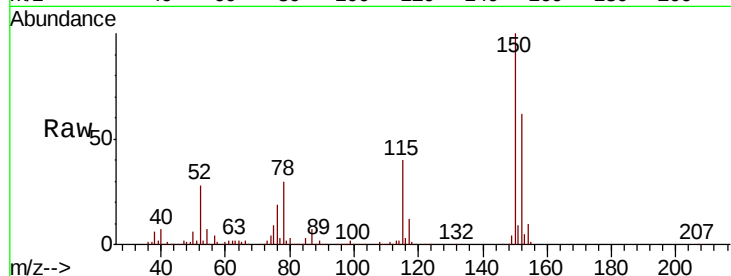
Tot Ion:152 Resp: 160555

Ion Ratio Lower Upper

152 100

115 62.9 31.3 93.8

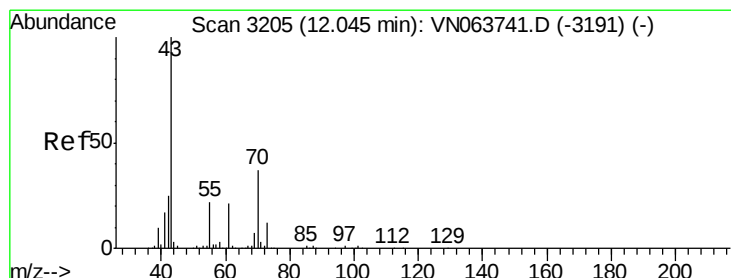
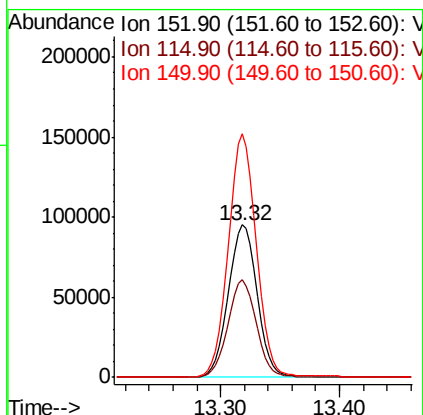
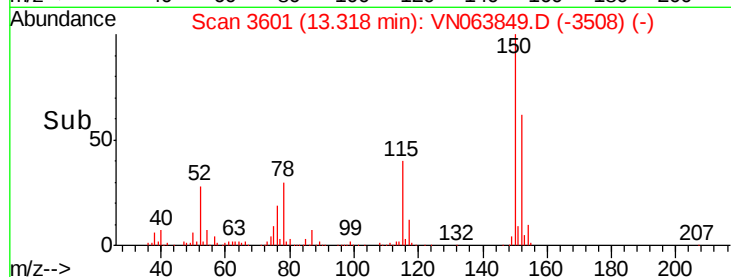
150 154.1 0.0 341.8



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-ethyl acetate

Concen: 2.382 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN063849.D

Acq: 3 Oct 2020 3:32

Tgt Ion: 43 Resp: 944

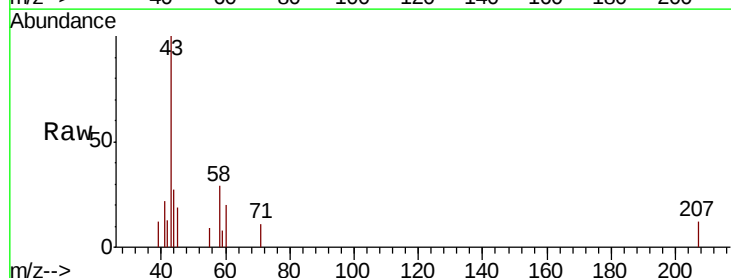
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 8.1 17.9 26.9#

61 0.0 17.0 25.4#

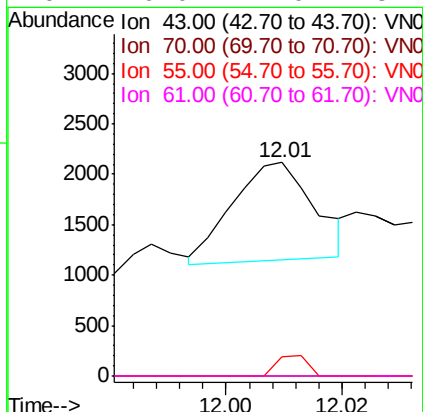
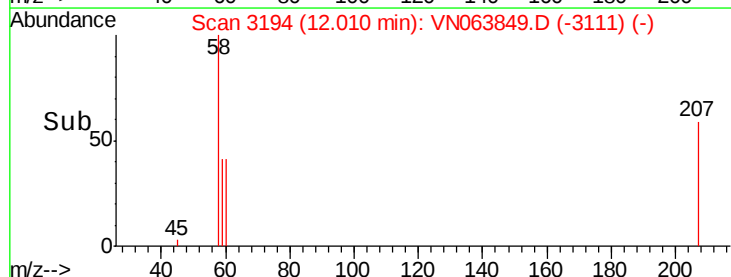


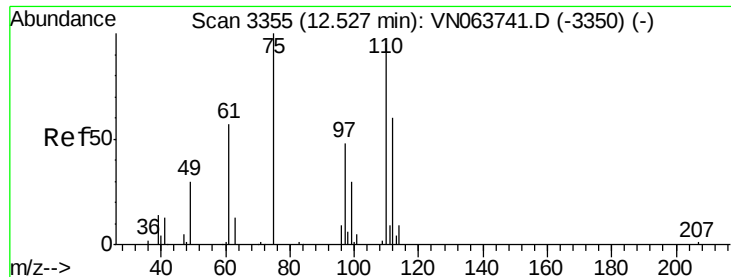
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 31.349 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063849.D

Acq: 3 Oct 2020 3:32

Instrument :

MSVOA_N

ClientSampleId :

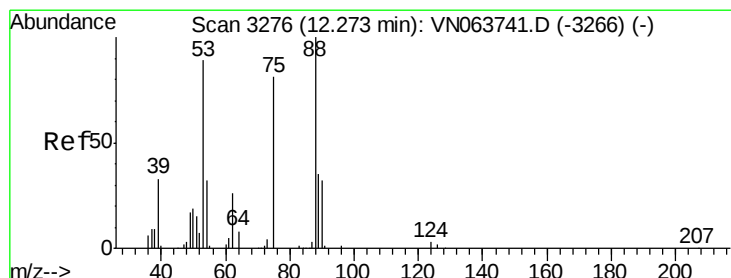
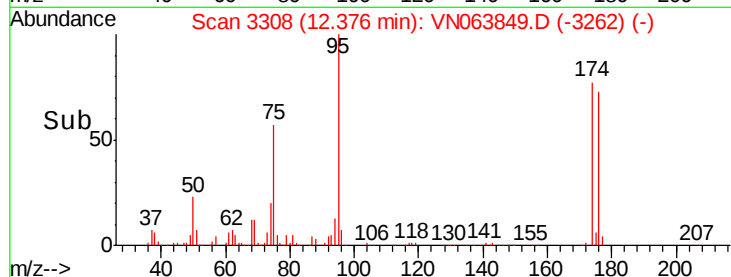
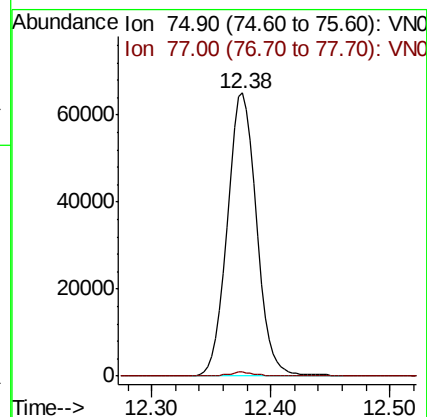
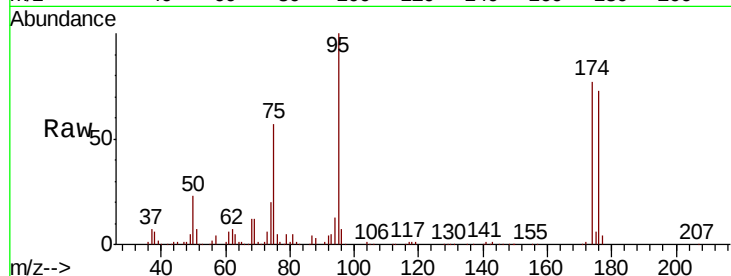
RO-24

Tot Ion: 75 Resp: 110952

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 90.290 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063849.D

Acq: 3 Oct 2020 3:32

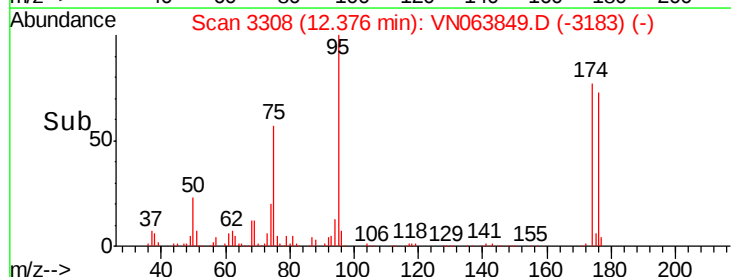
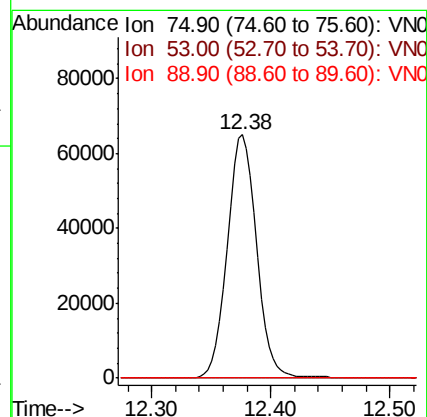
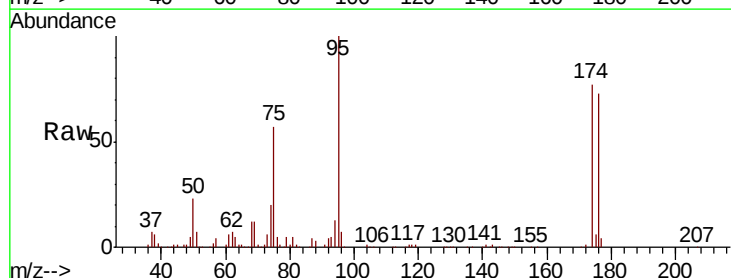
Tgt Ion: 75 Resp: 110952

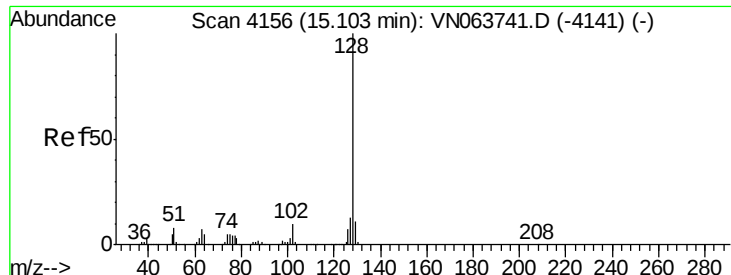
Ion Ratio Lower Upper

75 100

53 0.1 88.2 132.2#

89 0.0 36.0 54.0#

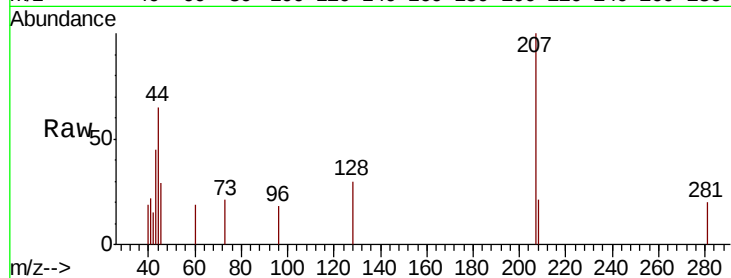




#95
Naphthalene
Concen: 1.948 ug/l
RT: 15.11 min Scan# 4158
Delta R.T. 0.01 min
Lab File: VN063849.D
Acq: 3 Oct 2020 3:32

Instrument :
MSVOA_N
ClientSampleId :
RO-24

Tot Ion:128 Resp: 210
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): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

