

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100220\
 Data File : VN063846.D
 Acq On : 3 Oct 2020 2:21
 Operator : JC/MD
 Sample : L4198-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-15

Quant Time: Oct 05 04:23:43 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	210639	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	397939	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	404606	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	165357	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	189590	54.48	ug/l	0.00
Spiked Amount			Recovery	=	108.96%	
35) Dibromofluoromethane	7.55	113	132226	47.89	ug/l	0.00
Spiked Amount			Recovery	=	95.78%	
50) Toluene-d8	10.06	98	518981	49.58	ug/l	0.00
Spiked Amount			Recovery	=	99.16%	
62) 4-Bromofluorobenzene	12.38	95	198087	50.34	ug/l	0.00
Spiked Amount			Recovery	=	100.68%	

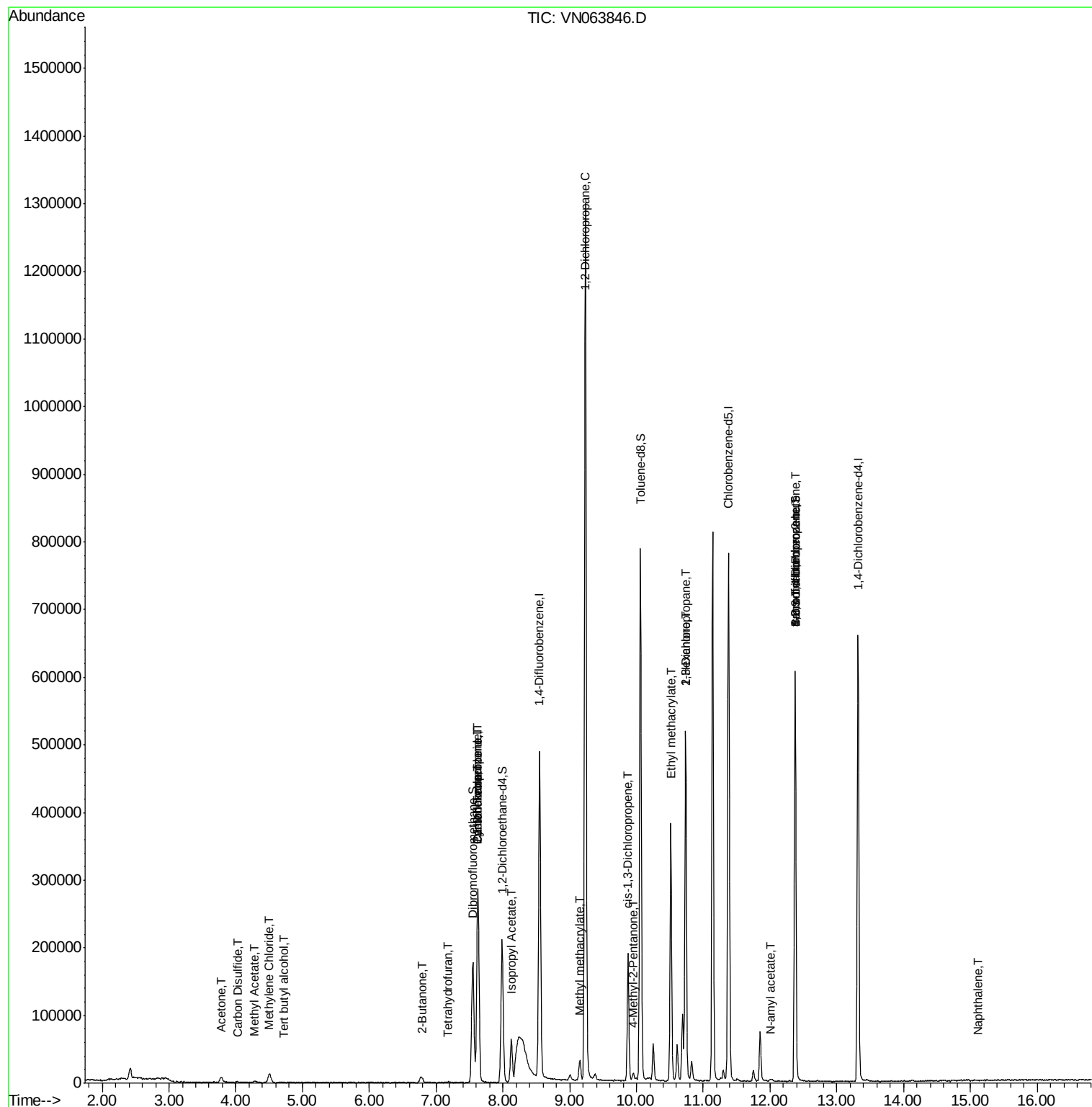
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	110	0.286	ug/l #	71
16) Acetone	3.78	43	13847	12.926	ug/l	96
17) Carbon Disulfide	4.01	76	473	0.782	ug/l #	76
18) Methyl Acetate	4.28	43	2080	0.748	ug/l #	65
20) Methylene Chloride	4.51	84	9263	3.866	ug/l	94
25) 2-Butanone	6.80	43	3275	2.156	ug/l #	51
29) Tetrahydrofuran	7.16	42	446	0.438	ug/l #	47
31) Cyclohexane	7.63	56	6427	1.591	ug/l #	29
36) 1,1-Dichloropropene	7.62	75	9347	2.318	ug/l #	59
38) Carbon Tetrachloride	7.62	117	22780	5.039	ug/l #	17
43) Isopropyl Acetate	8.13	43	77181	11.682	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1602	0.515	ug/l #	44
48) Methyl methacrylate	9.14	41	5270	1.615	ug/l #	12
51) 4-Methyl-2-Pentanone	9.96	43	9361	2.414	ug/l	95
54) cis-1,3-Dichloropropene	9.87	75	30027	6.058	ug/l #	67
56) Ethyl methacrylate	10.51	69	1921	0.474	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4913	1.017	ug/l #	43
59) 2-Hexanone	10.74	43	81705	28.368	ug/l #	54
71) Bromoform	12.37	173	536	0.220	ug/l #	1
74) N-amyl acetate	12.01	43	3149	2.753	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	111485	30.585	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	111485	88.089	ug/l #	6
95) Naphthalene	15.12	128	215	1.948	ug/l #	69

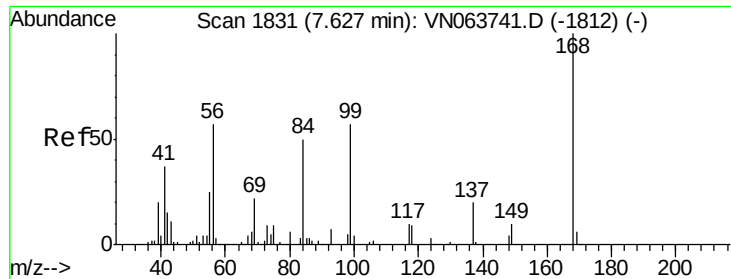
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN100220\
Data File : VN063846.D
Acq On : 3 Oct 2020 2:21
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
Quant Title : SW846 8260
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: VN063846.D

Acq: 3 Oct 2020 2:21

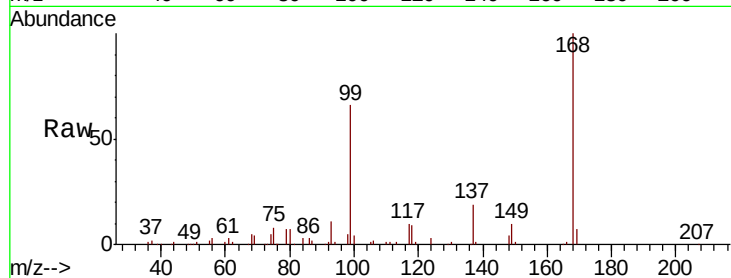
Instrument :
MSVOA_N
ClientSampleId :
RO-15

Tot Ion:168 Resp: 210639

Ion Ratio Lower Upper

168 100

99 66.3 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): VN063741.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN063741.D (-1812) (-)

7.63

80000

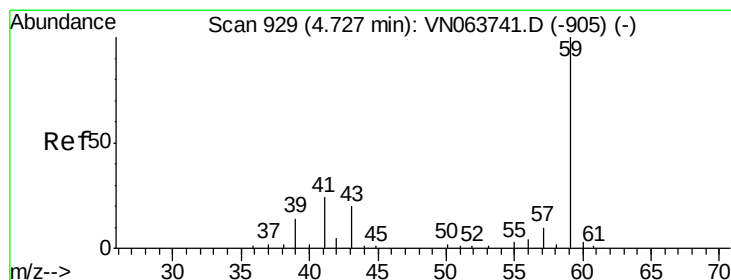
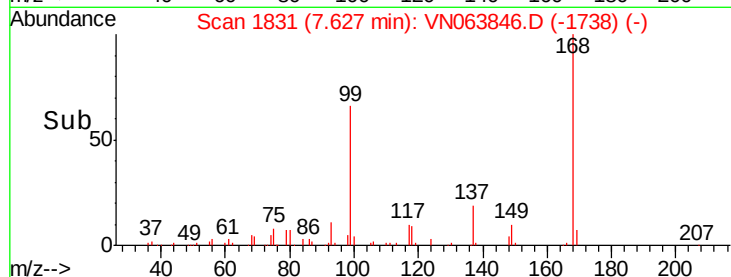
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.286 ug/l

RT: 4.72 min Scan# 928

Delta R.T. -0.00 min

Lab File: VN063846.D

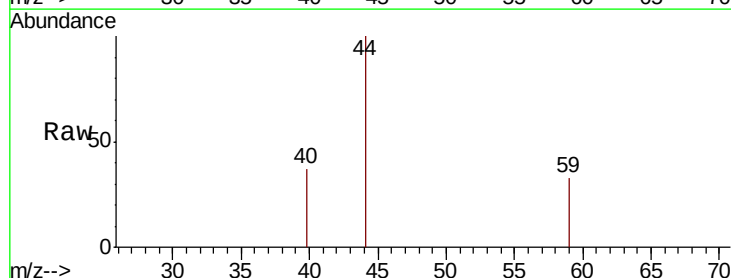
Acq: 3 Oct 2020 2:21

Tgt Ion: 59 Resp: 110

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VN063741.D (-905) (-)

Ion 57.00 (56.70 to 57.70): VN063741.D (-905) (-)

4.72

250

200

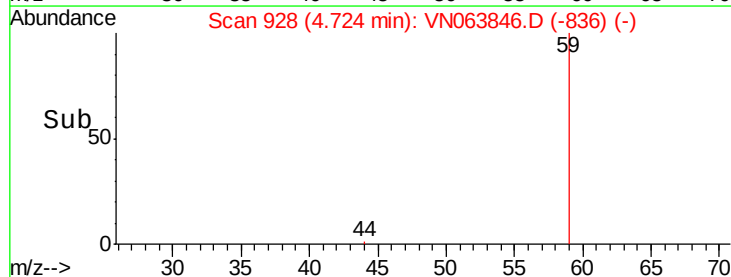
150

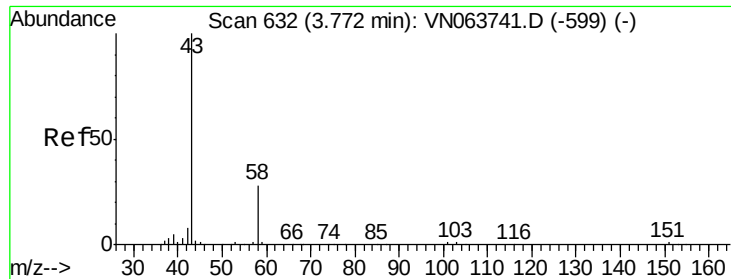
100

50

0

Time--> 4.71 4.72 4.73





#16

Acetone

Concen: 12.926 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN063846.D

Acq: 3 Oct 2020 2:21

Instrument :

MSVOA_N

ClientSampled :

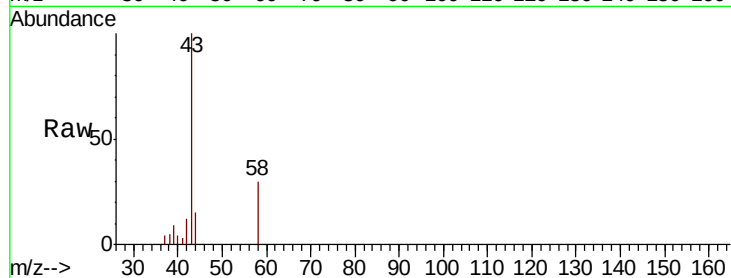
RO-15

Tot Ion: 43 Resp: 13847

Ion Ratio Lower Upper

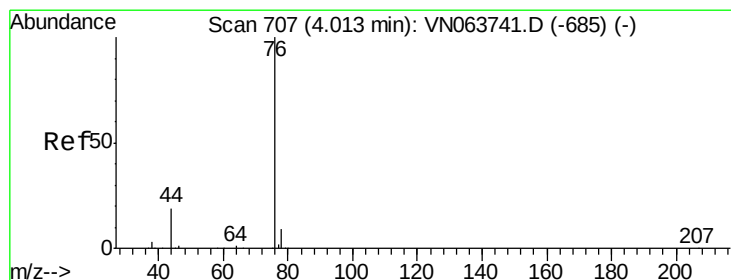
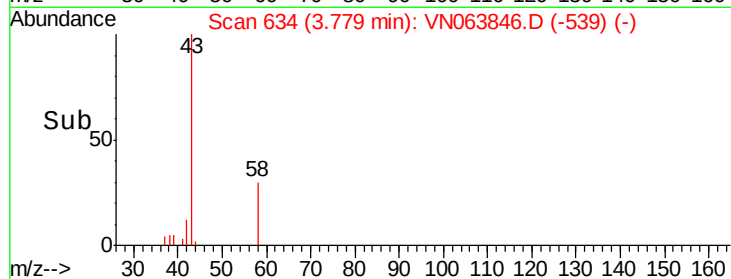
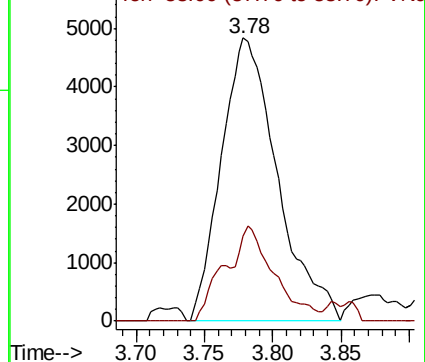
43 100

58 30.2 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN063846.D (-614) (-)

Ion 58.00 (57.70 to 58.70): VN063846.D (-614) (-)



#17

Carbon Disulfide

Concen: 0.782 ug/l

RT: 4.01 min Scan# 707

Delta R.T. 0.00 min

Lab File: VN063846.D

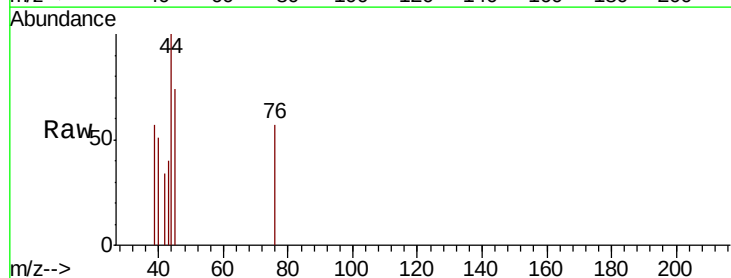
Acq: 3 Oct 2020 2:21

Tgt Ion: 76 Resp: 473

Ion Ratio Lower Upper

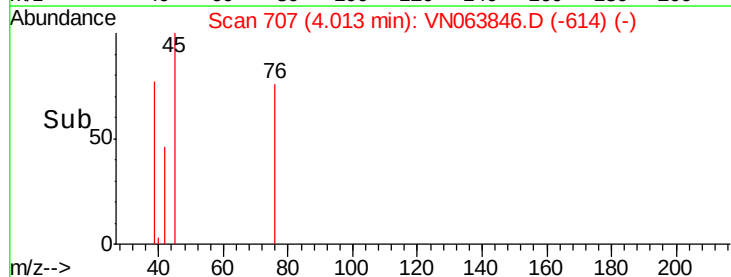
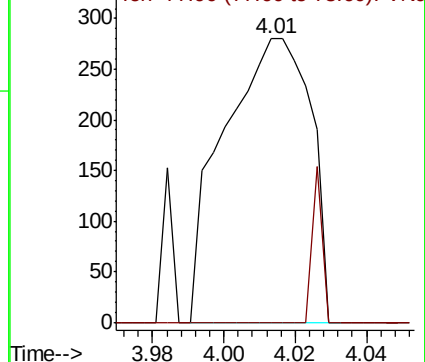
76 100

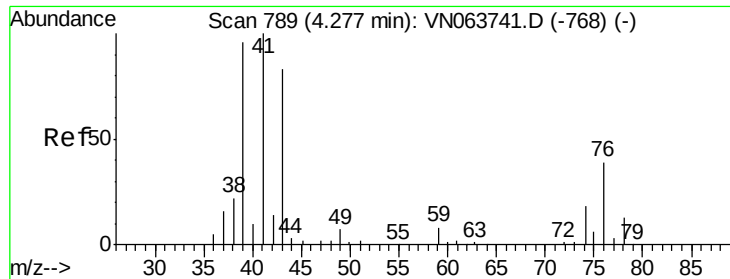
78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN063846.D (-614) (-)

Ion 77.90 (77.60 to 78.60): VN063846.D (-614) (-)

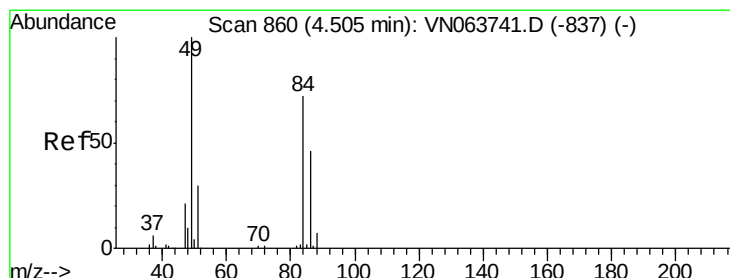
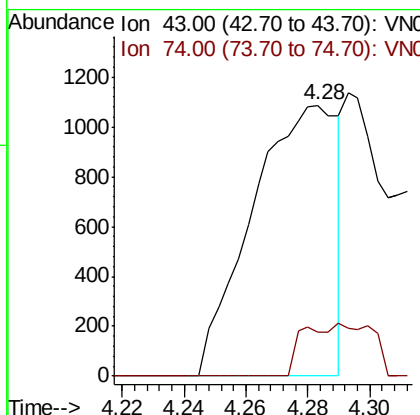
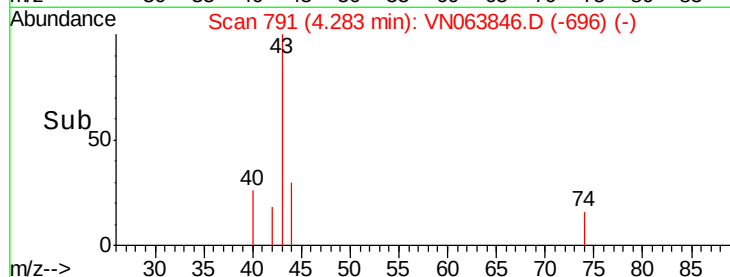
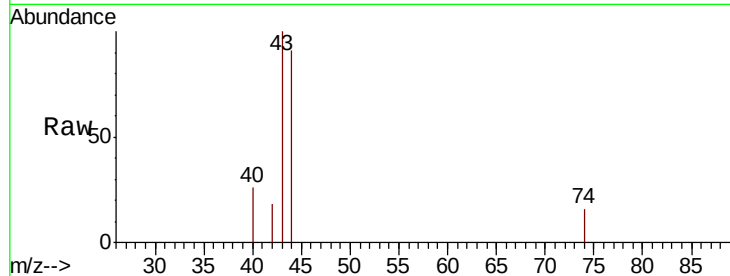




#18
Methvl Acetate
Concen: 0.748 ug/l
RT: 4.28 min Scan# 791
Delta R.T. 0.01 min
Lab File: VN063846.D
Acq: 3 Oct 2020 2:21

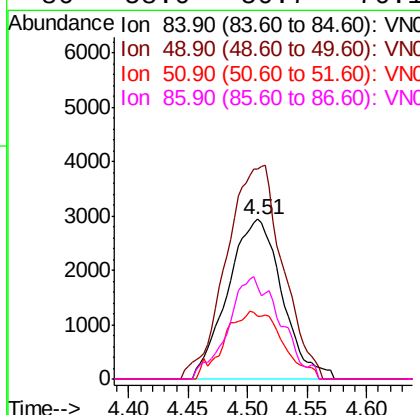
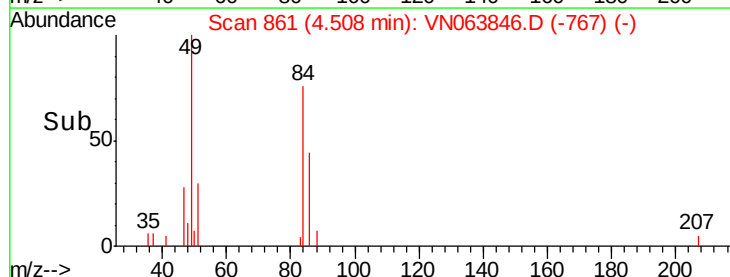
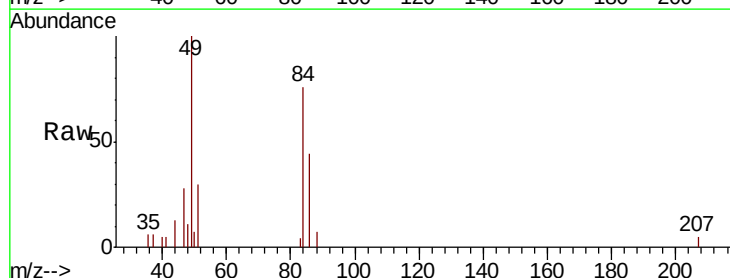
Instrument :
MSVOA_N
ClientSampled :
RO-15

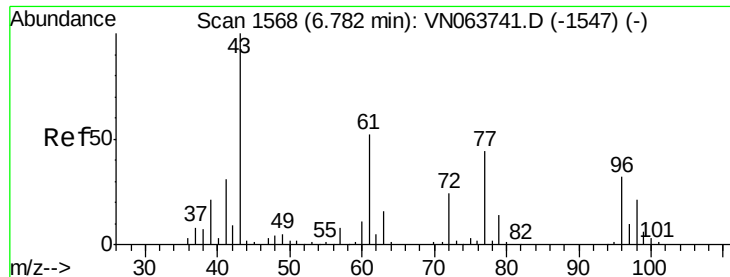
Tot Ion: 43 Resp: 2080
Ion Ratio Lower Upper
43 100
74 5.1 17.4 26.2#



#20
Methylene Chloride
Concen: 3.866 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.00 min
Lab File: VN063846.D
Acq: 3 Oct 2020 2:21

Tgt Ion: 84 Resp: 9263
Ion Ratio Lower Upper
84 100
49 131.2 110.4 165.6
51 39.3 33.3 49.9
86 58.0 50.7 76.1

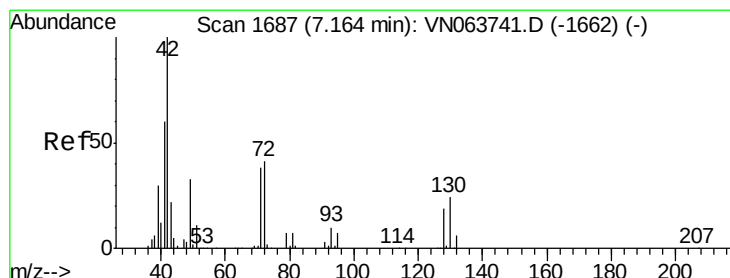
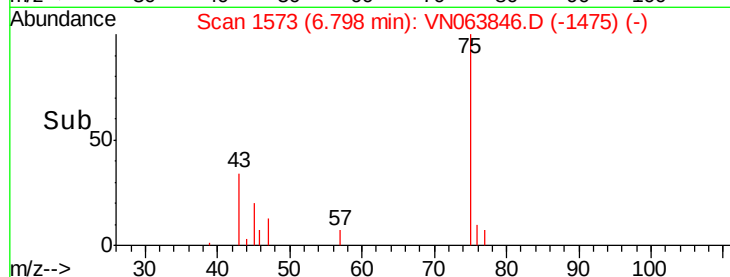
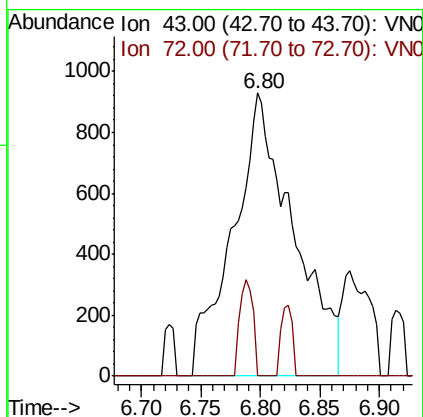
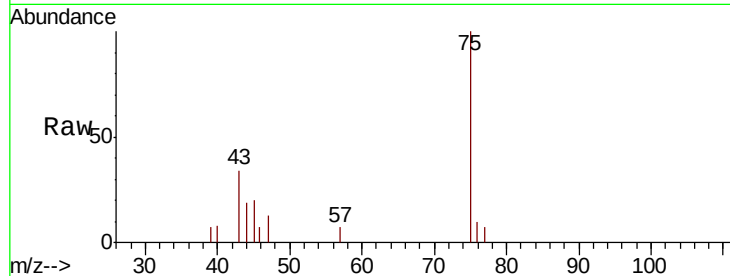




#25
2-Butanone
Concen: 2.156 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.02 min
Lab File: VN063846.D
Acq: 3 Oct 2020 2:21

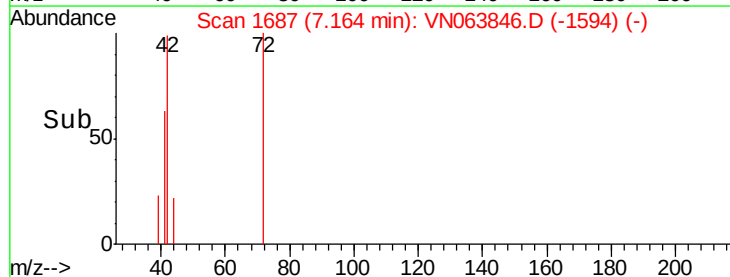
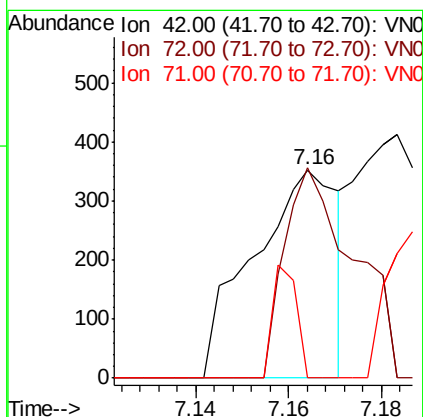
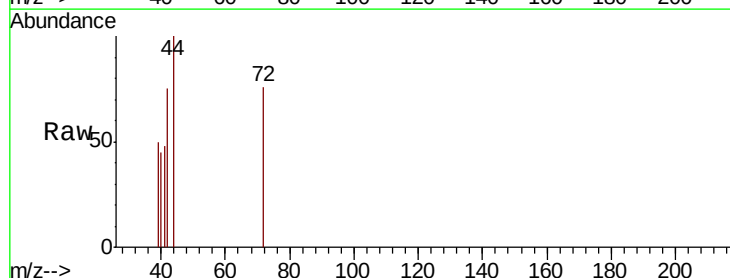
Instrument :
MSVOA_N
ClientSampled :
RO-15

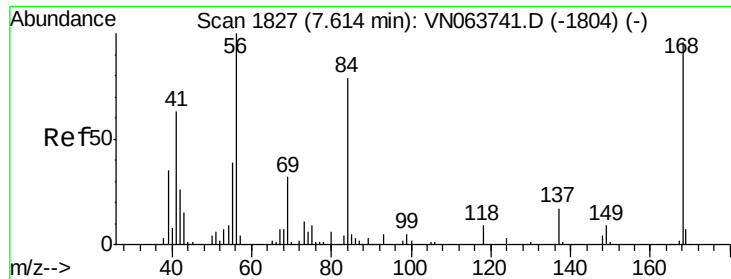
Tot Ion: 43 Resp: 3275
Ion Ratio Lower Upper
43 100
72 0.0 19.3 28.9#



#29
Tetrahydrofuran
Concen: 0.438 ug/l
RT: 7.16 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN063846.D
Acq: 3 Oct 2020 2:21

Tgt Ion: 42 Resp: 446
Ion Ratio Lower Upper
42 100
72 82.7 32.8 49.2#
71 15.5 30.6 45.8#

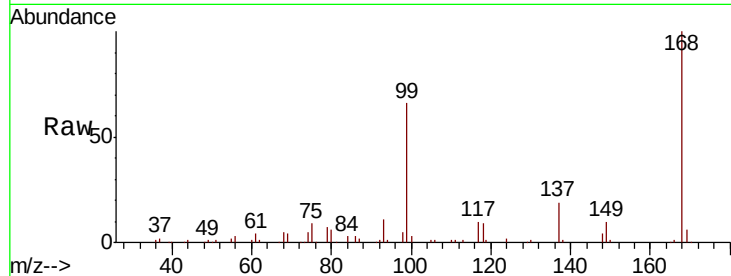




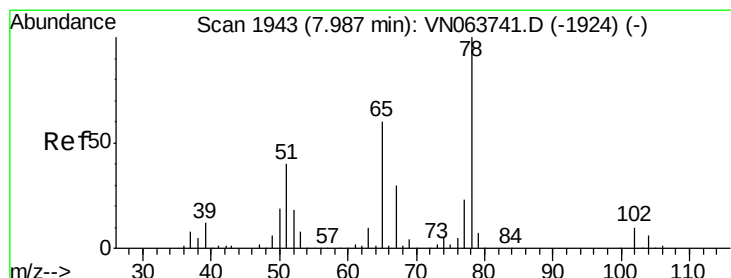
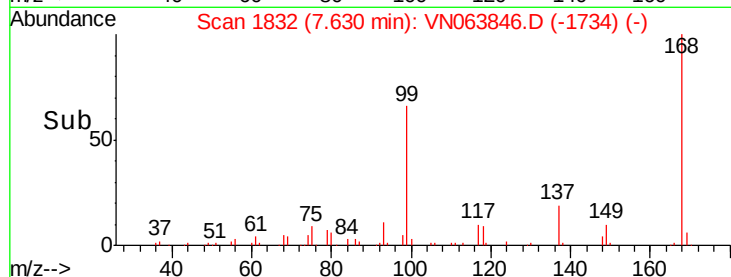
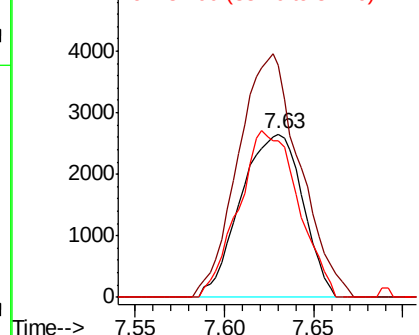
#31
Cyclohexane
Concen: 1.591 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN063846.D
Acq: 3 Oct 2020 2:21

Instrument :
MSVOA_N
ClientSampled :
RO-15

Tot Ion: 56 Resp: 6427
Ion Ratio Lower Upper
56 100
69 142.3 25.4 38.2#
84 95.8 63.3 94.9#

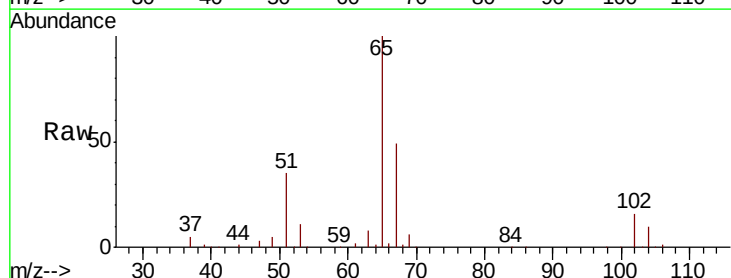


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

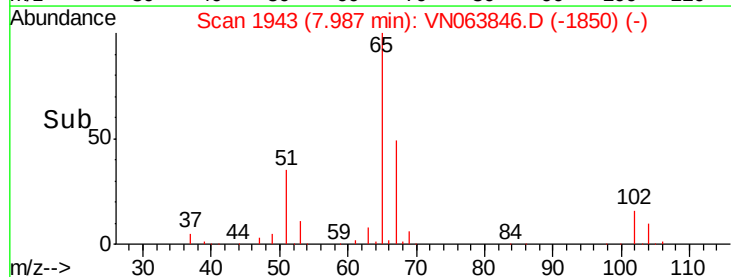
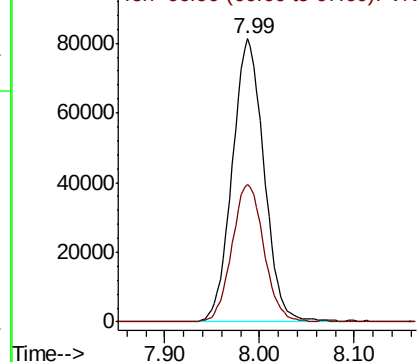


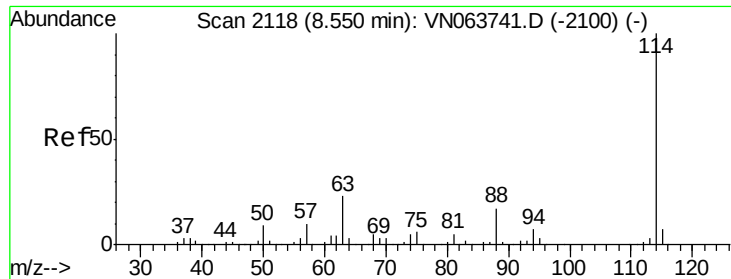
#33
1,2-Dichloroethane-d4
Concen: 54.481 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN063846.D
Acq: 3 Oct 2020 2:21

Tgt Ion: 65 Resp: 189590
Ion Ratio Lower Upper
65 100
67 48.9 0.0 99.6



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

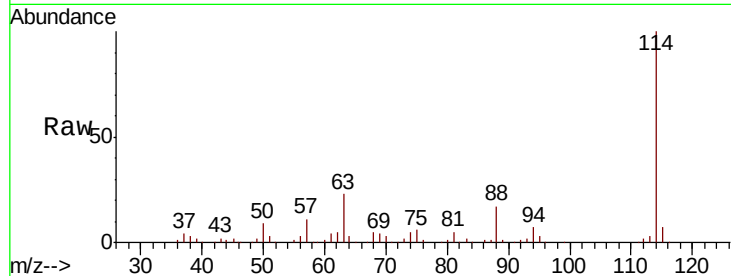




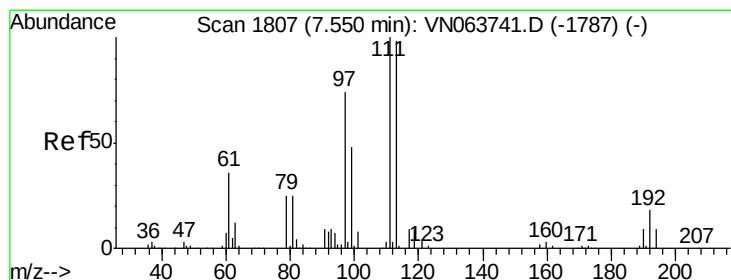
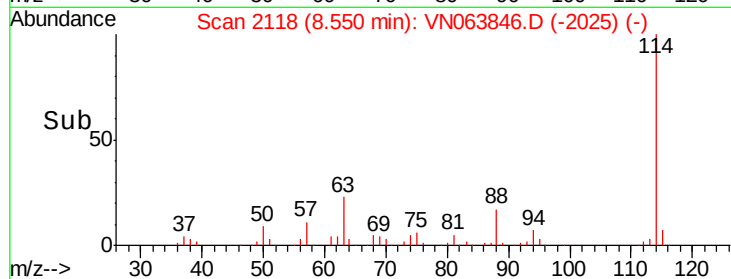
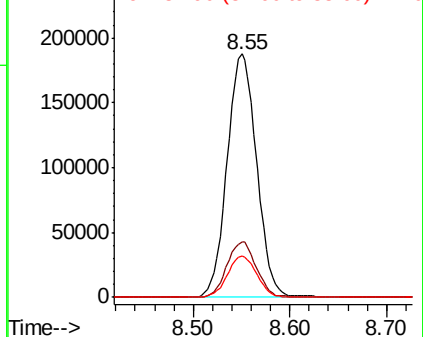
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN063846.D
 Acq: 3 Oct 2020 2:21

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-15

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.9	0.0	45.0
88	16.9	0.0	34.0

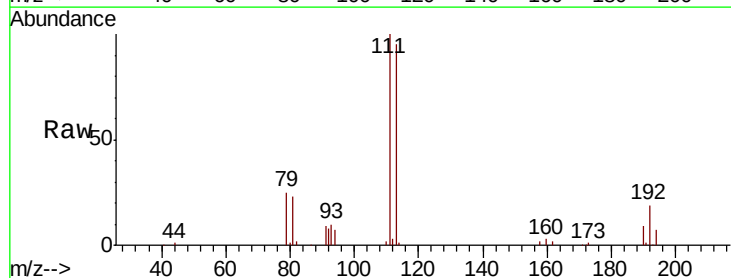


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

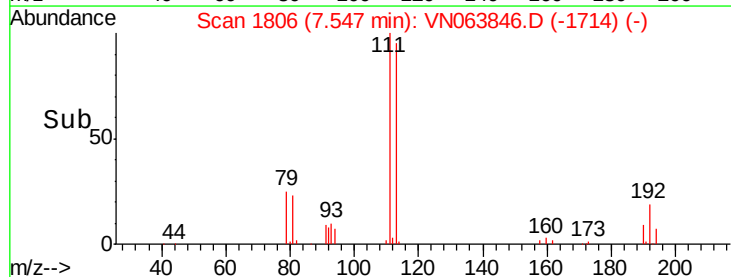
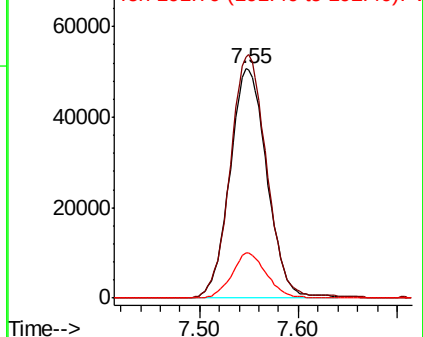


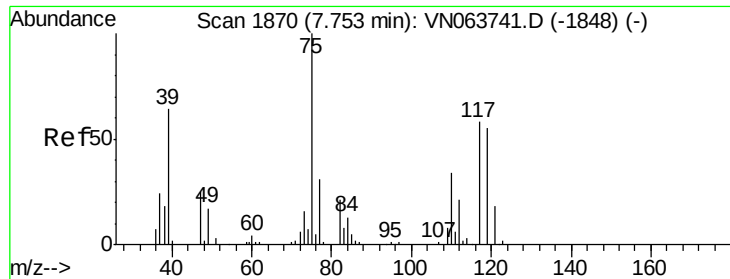
#35
 Dibromofluoromethane
 Concen: 47.887 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN063846.D
 Acq: 3 Oct 2020 2:21

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.9	81.8	122.8
192	18.4	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: 2.318 ug/l

RT: 7.62 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN063846.D

Acq: 3 Oct 2020 2:21

Instrument :

MSVOA_N

ClientSampleId :

RO-15

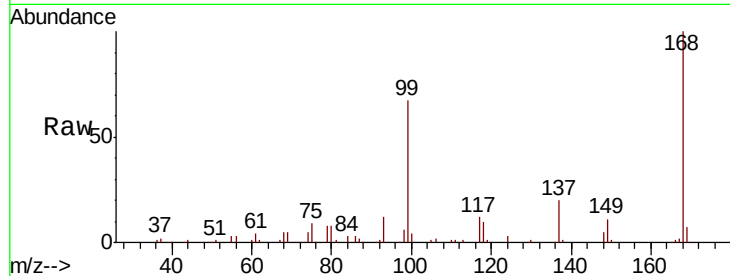
Tot Ion: 75 Resp: 9347

Ion Ratio Lower Upper

75 100

110 18.2 16.9 50.6

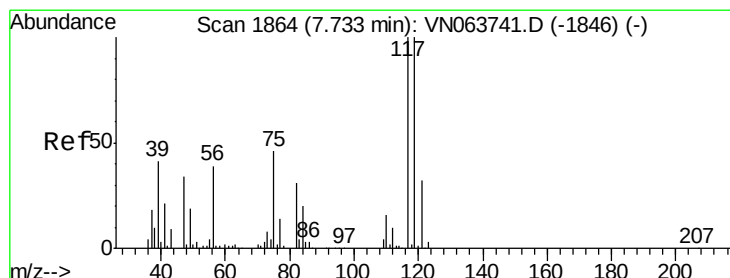
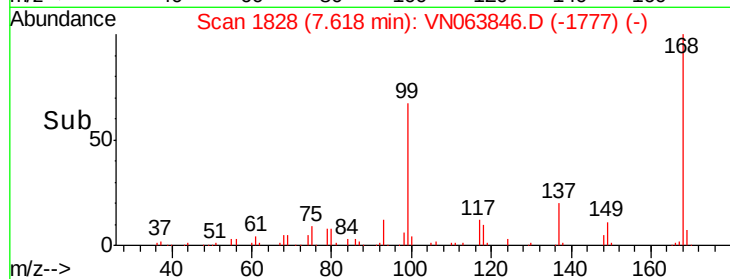
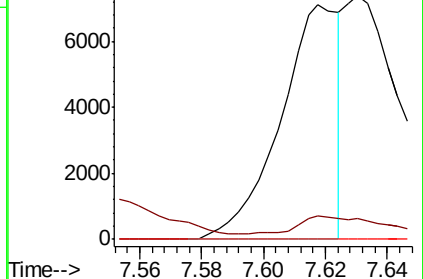
77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VN063741.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN063741.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN063741.D (-1848) (-)



#38

Carbon Tetrachloride

Concen: 5.039 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063846.D

Acq: 3 Oct 2020 2:21

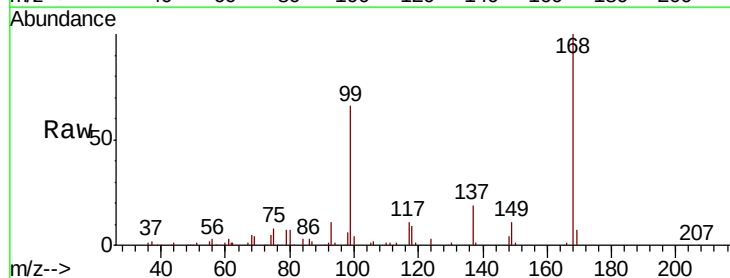
Tgt Ion: 117 Resp: 22780

Ion Ratio Lower Upper

117 100

119 8.3 80.1 120.1#

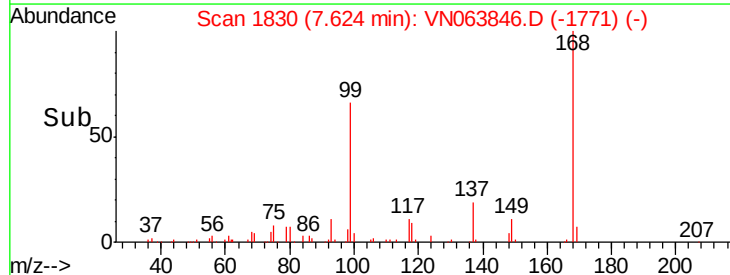
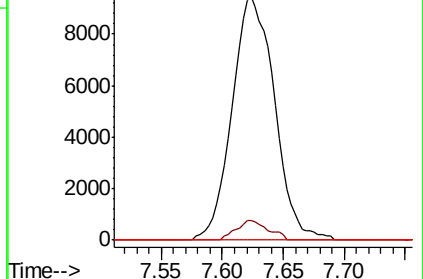
121 0.0 25.7 38.5#

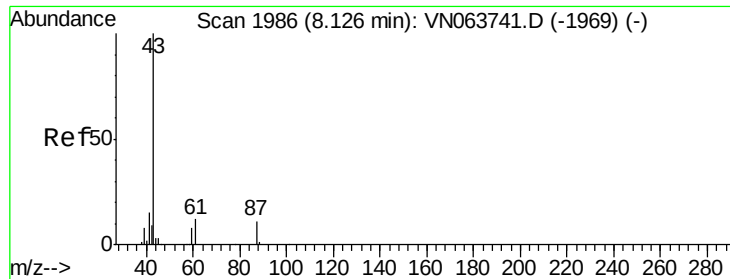


Abundance Ion 116.80 (116.50 to 117.50): VN063741.D (-1846) (-)

Ion 118.80 (118.50 to 119.50): VN063741.D (-1846) (-)

Ion 120.80 (120.50 to 121.50): VN063741.D (-1846) (-)





#43

Isopropyl Acetate

Concen: 11.682 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN063846.D

Acq: 3 Oct 2020 2:21

Instrument :

MSVOA_N

ClientSampled :

RO-15

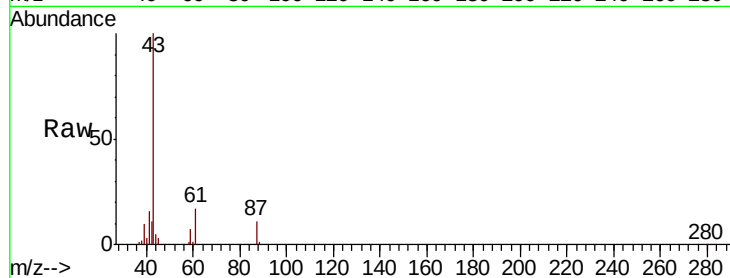
Tot Ion: 43 Resp: 77181

Ion Ratio Lower Upper

43 100

61 17.4 14.2 21.4

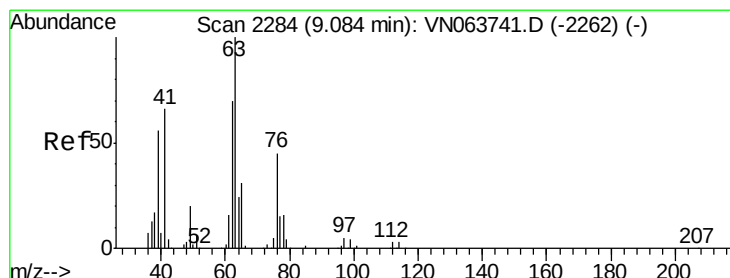
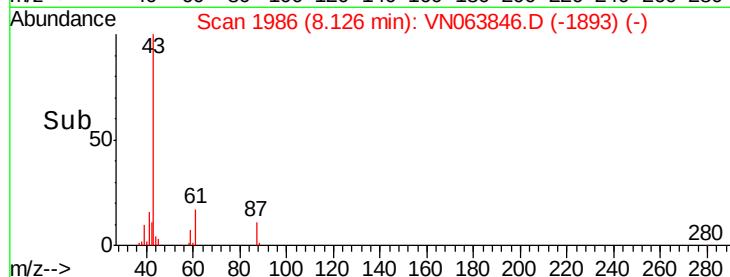
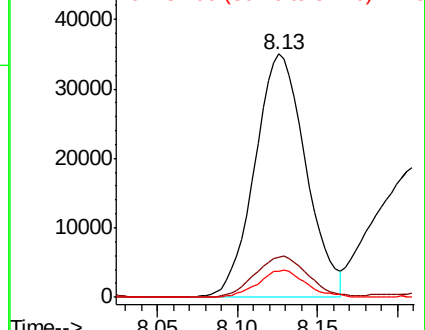
87 10.4 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.515 ug/l

RT: 9.23 min Scan# 2329

Delta R.T. 0.14 min

Lab File: VN063846.D

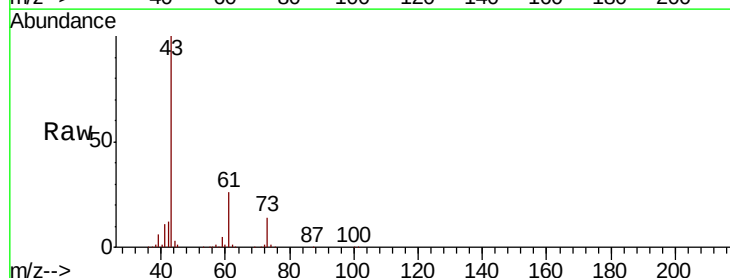
Acq: 3 Oct 2020 2:21

Tgt Ion: 63 Resp: 1602

Ion Ratio Lower Upper

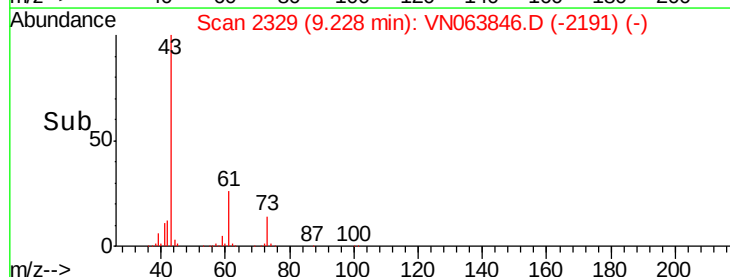
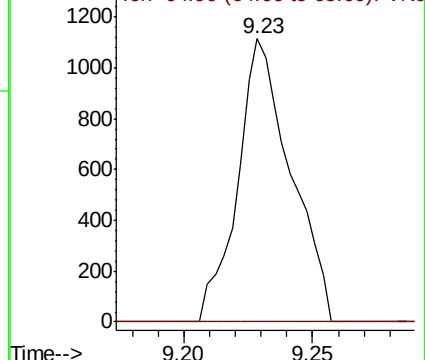
63 100

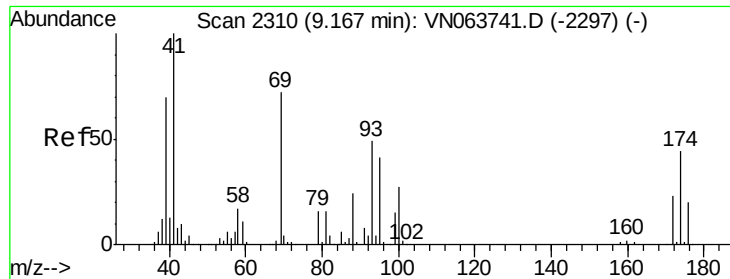
65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

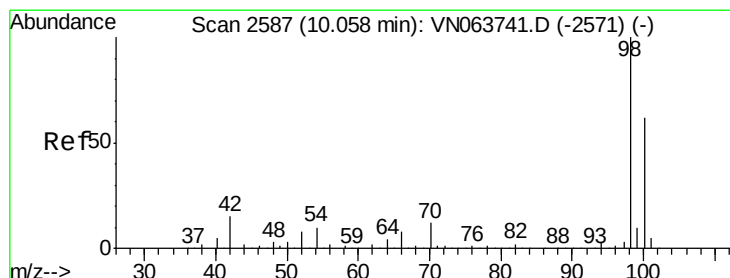
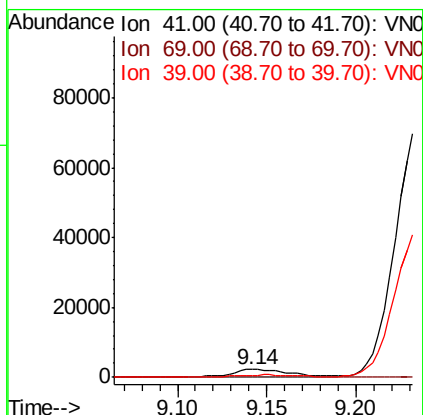
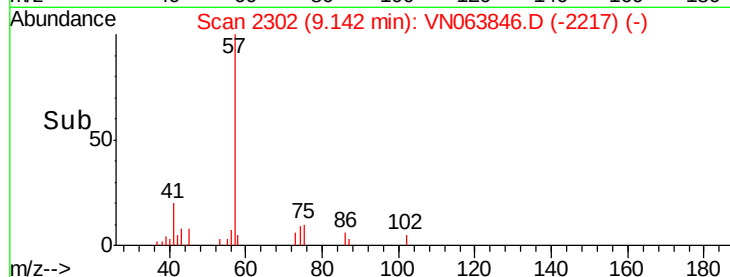
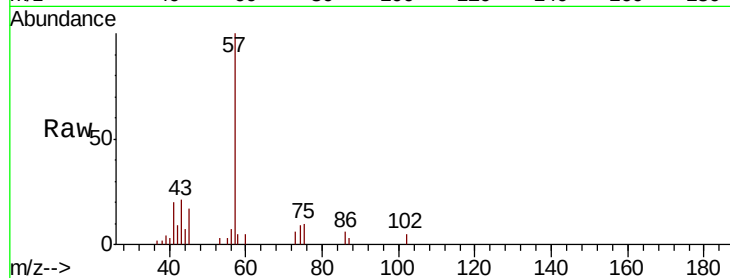




#48
Methvl methacrylate
Concen: 1.615 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.03 min
Lab File: VN063846.D
Acq: 3 Oct 2020 2:21

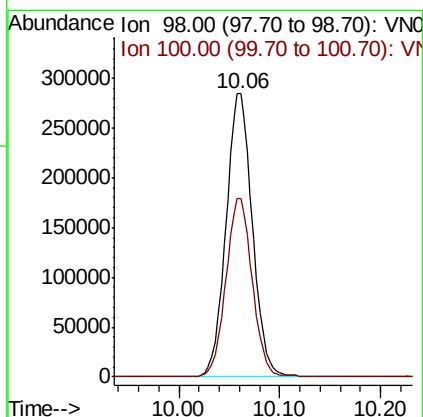
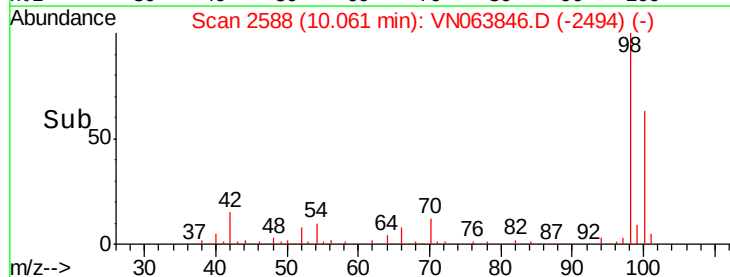
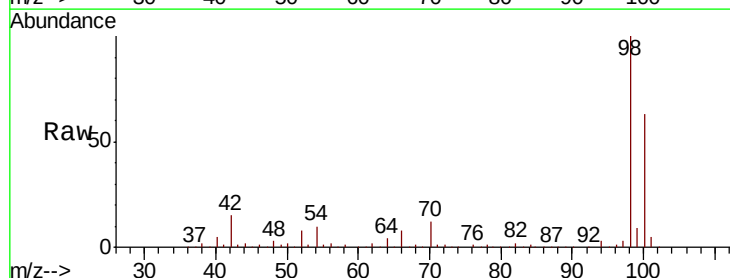
Instrument :
MSVOA_N
ClientSampleId :
RO-15

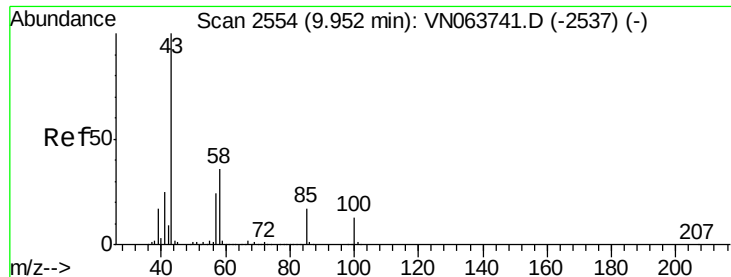
Tot Ion: 41 Resp: 5270
Ion Ratio Lower Upper
41 100
69 0.0 60.9 91.3#
39 0.0 57.5 86.3#



#50
Toluene-d8
Concen: 49.581 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063846.D
Acq: 3 Oct 2020 2:21

Tgt Ion: 98 Resp: 518981
Ion Ratio Lower Upper
98 100
100 63.0 49.8 74.6

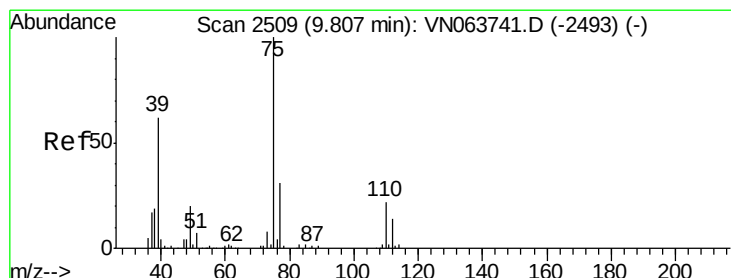
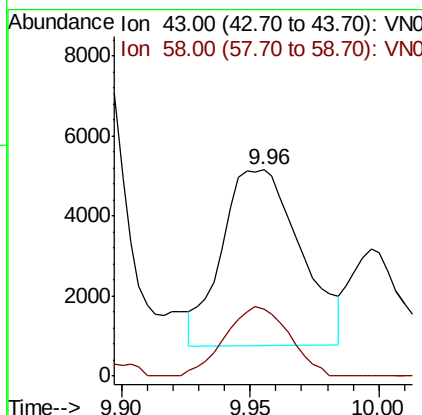
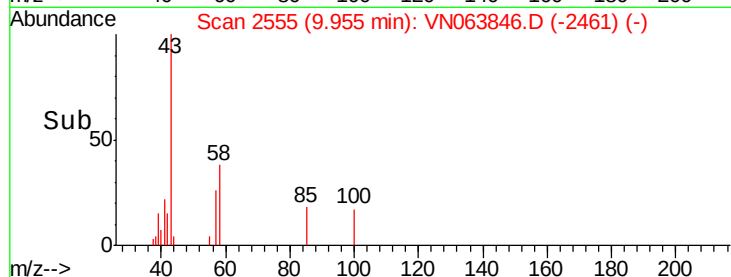
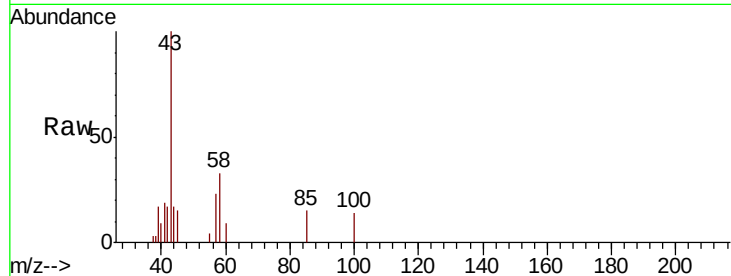




#51
 4-Methyl-2-Pentanone
 Concen: 2.414 ug/l
 RT: 9.96 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN063846.D
 Acq: 3 Oct 2020 2:21

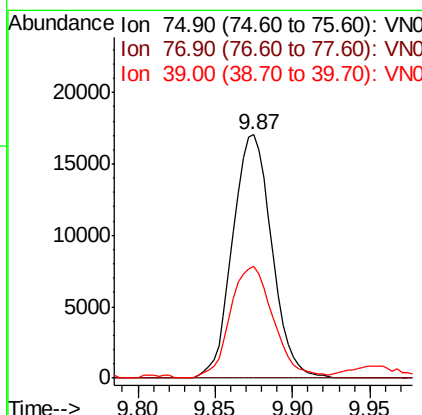
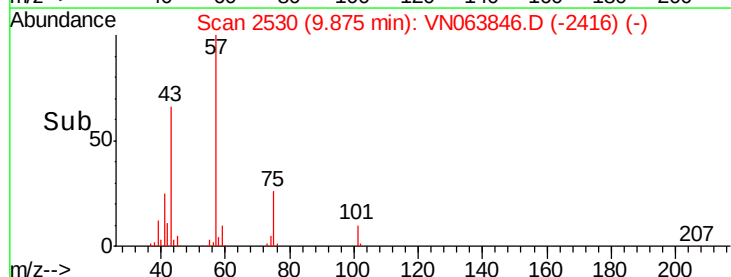
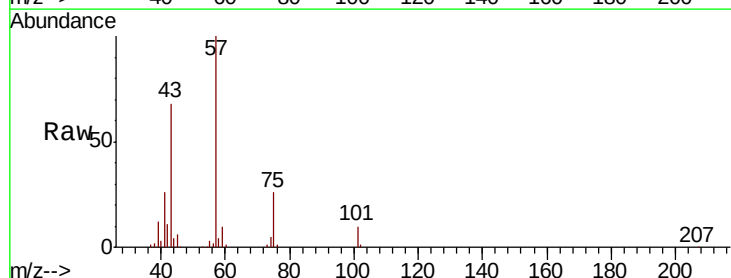
Instrument :
 MSVOA_N
 ClientSampled :
 RO-15

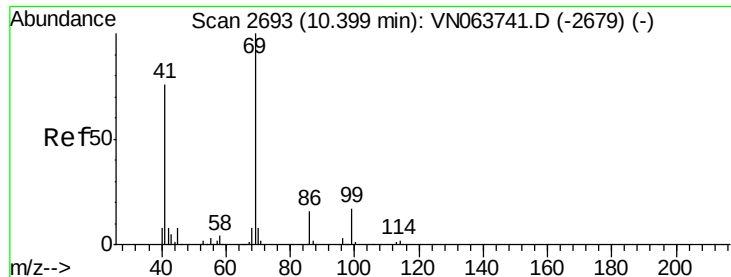
Tot Ion: 43 Resp: 9361
 Ion Ratio Lower Upper
 43 100
 58 32.3 28.4 42.6



#54
 cis-1,3-Dichloropropene
 Concen: 6.058 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN063846.D
 Acq: 3 Oct 2020 2:21

Tgt Ion: 75 Resp: 30027
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 36.8#
 39 45.9 49.7 74.5#





#56

Ethyl methacrylate

Concen: 0.474 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN063846.D

Acq: 3 Oct 2020 2:21

Instrument :

MSVOA_N

ClientSampled :

RO-15

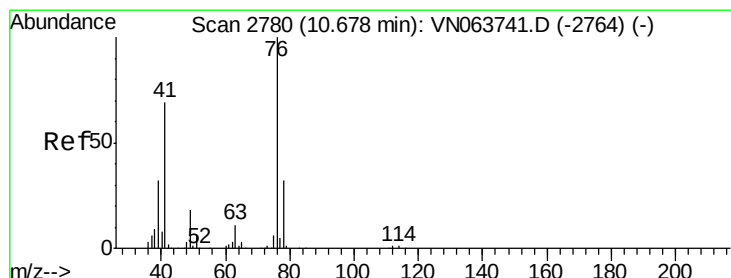
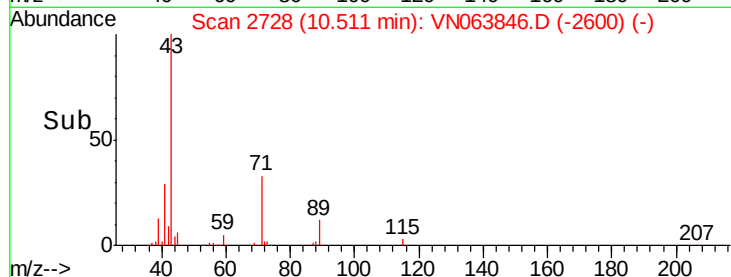
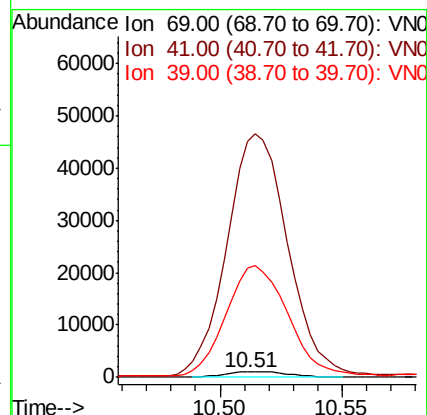
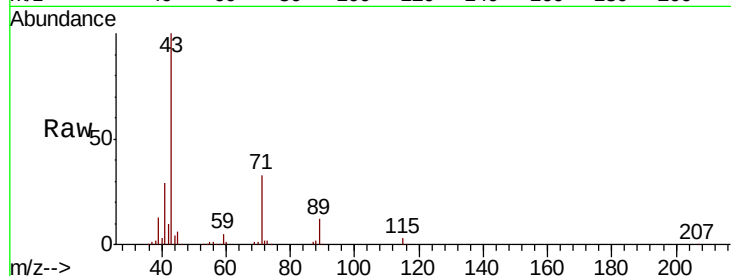
Tot Ion: 69 Resp: 1921

Ion Ratio Lower Upper

69 100

41 4204.1 61.1 91.7#

39 1943.4 42.2 63.4#



#57

1,3-Dichloropropane

Concen: 1.017 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063846.D

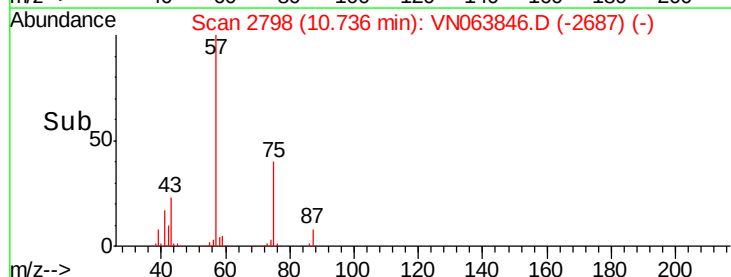
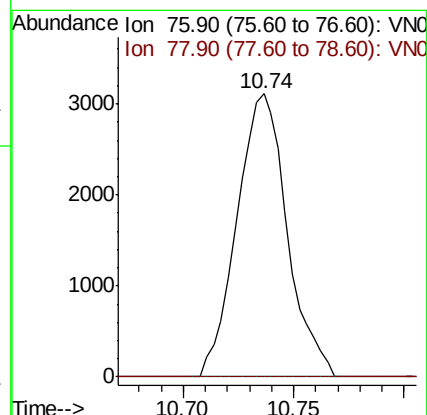
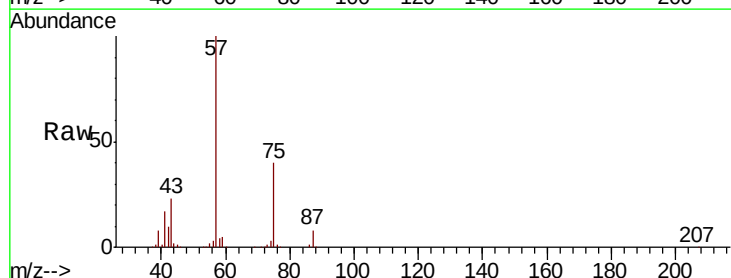
Acq: 3 Oct 2020 2:21

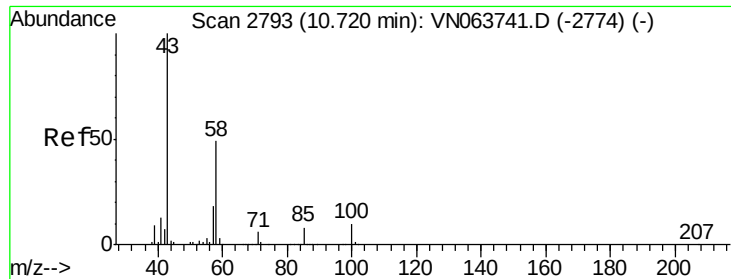
Tgt Ion: 76 Resp: 4913

Ion Ratio Lower Upper

76 100

78 0.0 25.2 37.8#

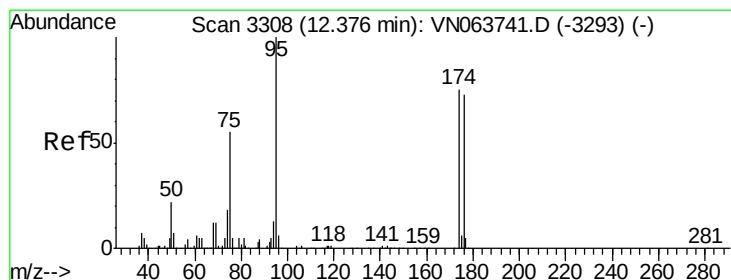
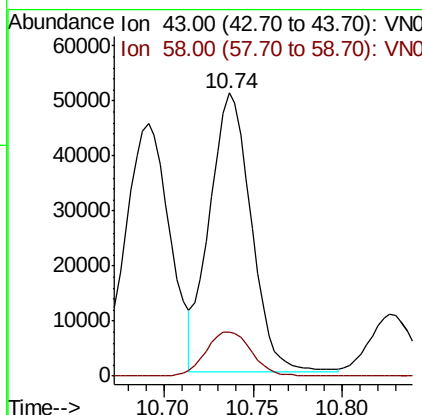
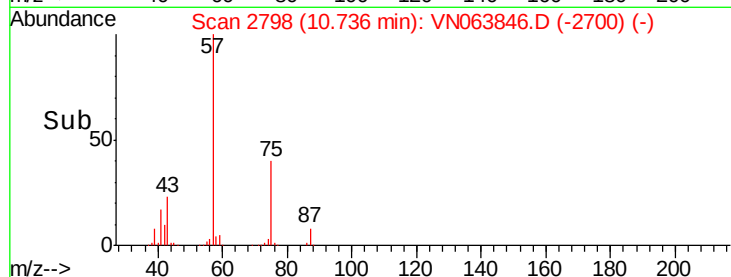
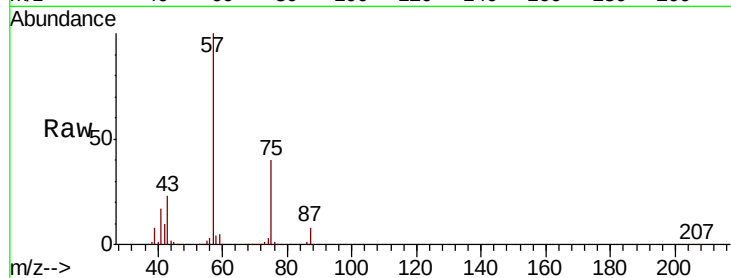




#59
2-Hexanone
Concen: 28.368 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN063846.D
Acq: 3 Oct 2020 2:21

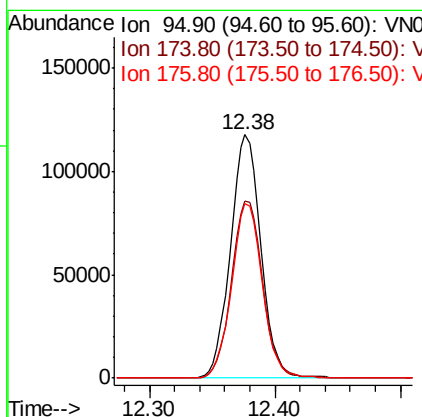
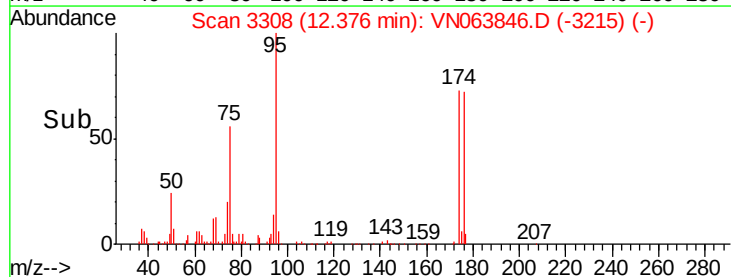
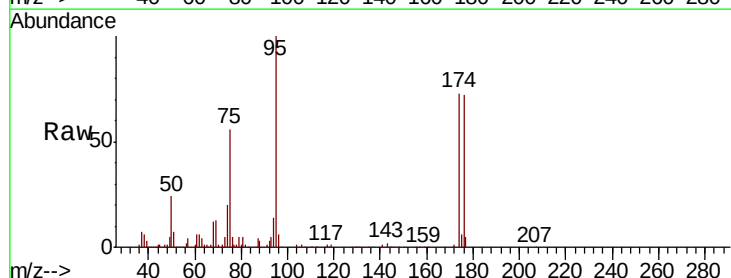
Instrument :
MSVOA_N
ClientSampleId :
RO-15

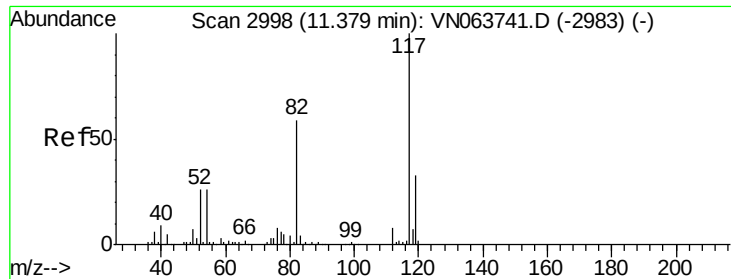
Tot Ion: 43 Resp: 81705
Ion Ratio Lower Upper
43 100
58 17.6 24.6 73.8#



#62
4-Bromofluorobenzene
Concen: 50.342 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN063846.D
Acq: 3 Oct 2020 2:21

Tgt Ion: 95 Resp: 198087
Ion Ratio Lower Upper
95 100
174 75.2 0.0 150.6
176 72.7 0.0 145.4

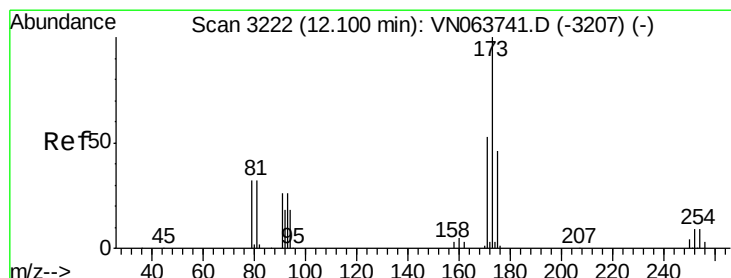
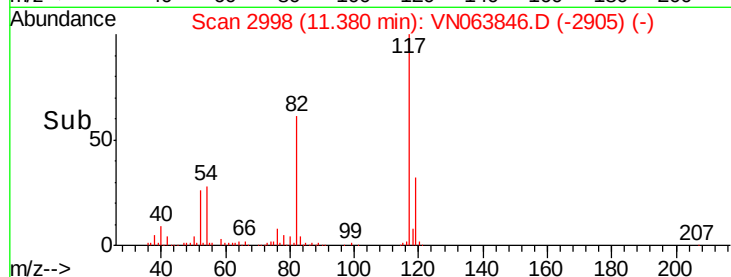
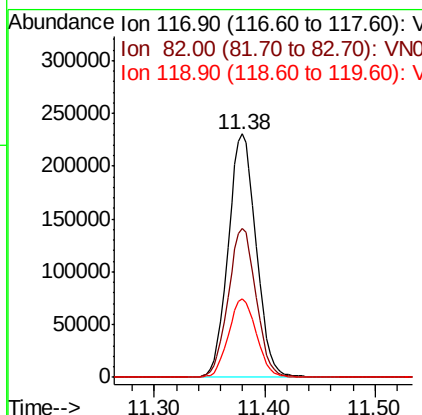
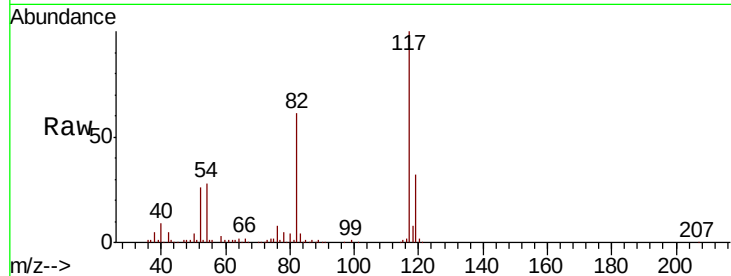




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063846.D
Acq: 3 Oct 2020 2:21

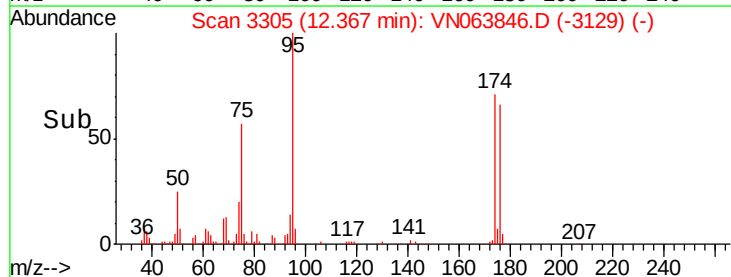
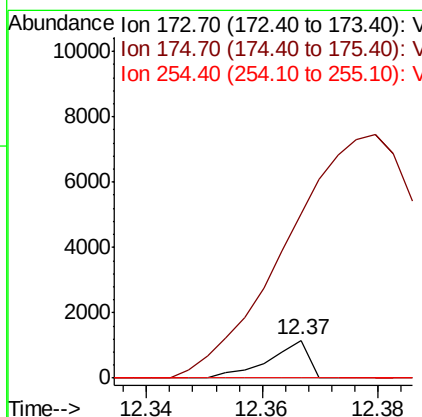
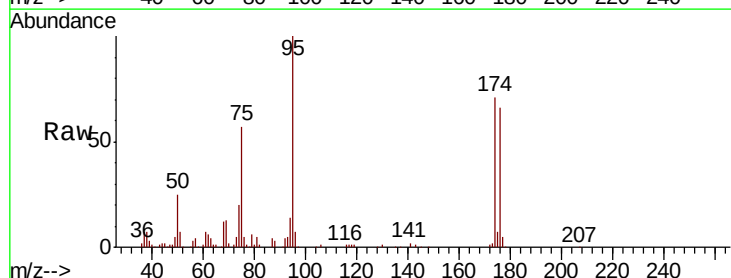
Instrument :
MSVOA_N
ClientSampleId :
RO-15

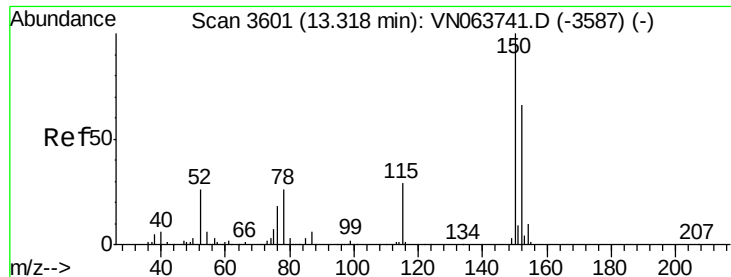
Tot Ion:117 Resp: 404606
Ion Ratio Lower Upper
117 100
82 61.3 47.4 71.2
119 32.1 26.4 39.6



#71
Bromoform
Concen: 0.220 ug/l
RT: 12.37 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN063846.D
Acq: 3 Oct 2020 2:21

Tgt Ion:173 Resp: 536
Ion Ratio Lower Upper
173 100
175 2003.2 23.5 70.5#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063846.D

Acq: 3 Oct 2020 2:21

Instrument :

MSVOA_N

ClientSampleId :

RO-15

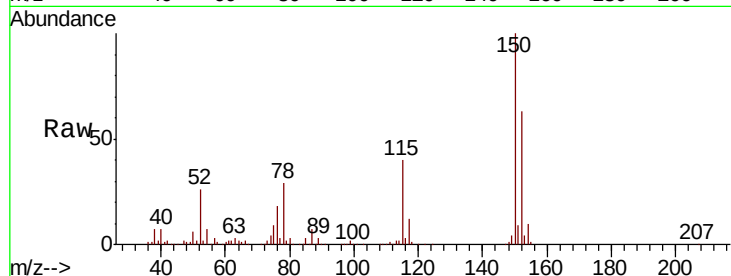
Tot Ion:152 Resp: 165357

Ion Ratio Lower Upper

152 100

115 62.7 31.3 93.8

150 157.6 0.0 341.8

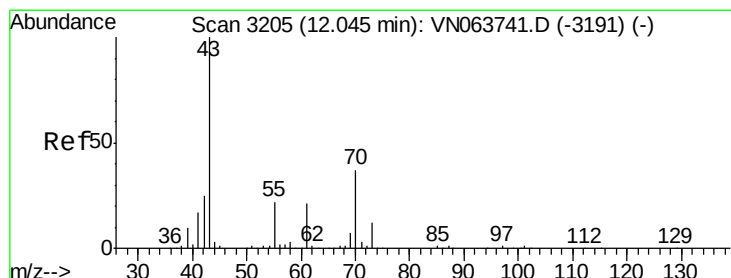
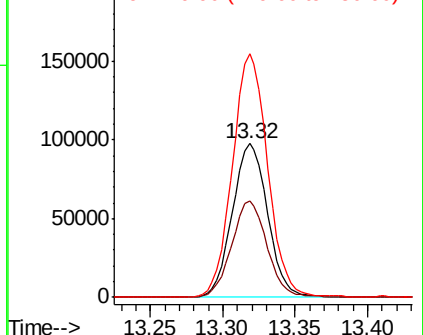
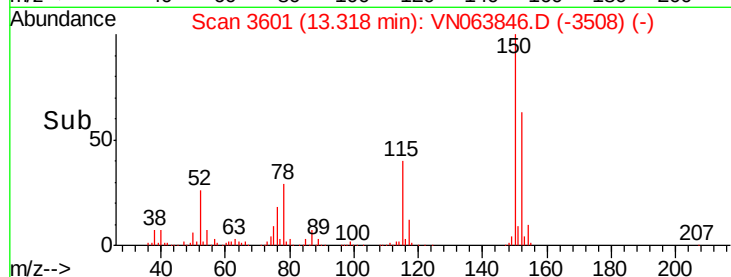


Abundance

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: 2.753 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063846.D

Acq: 3 Oct 2020 2:21

Tgt Ion: 43 Resp: 3149

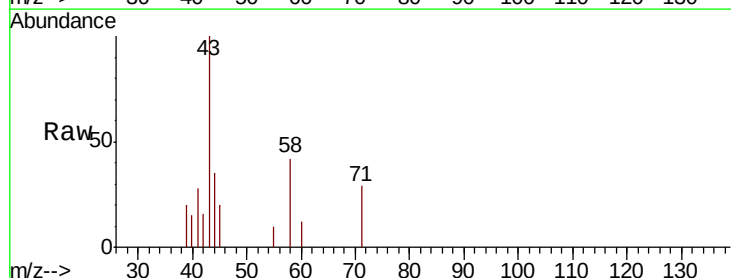
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 8.7 17.9 26.9#

61 0.0 17.0 25.4#



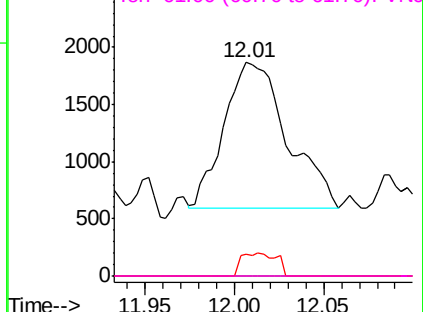
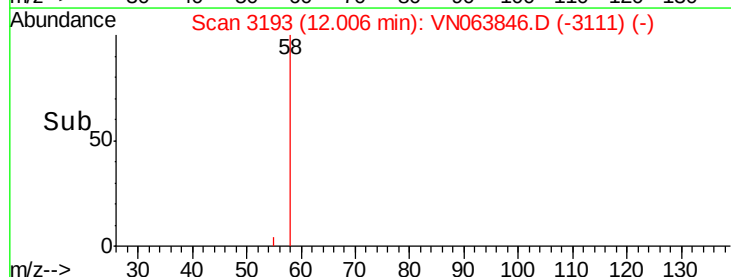
Abundance

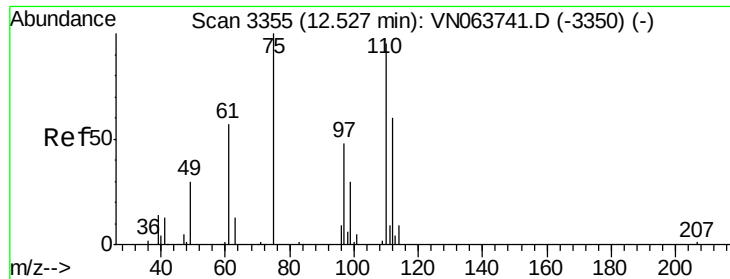
Ion 43.00 (42.70 to 43.70): V

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

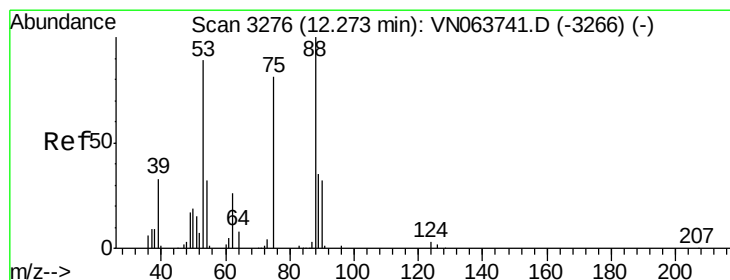
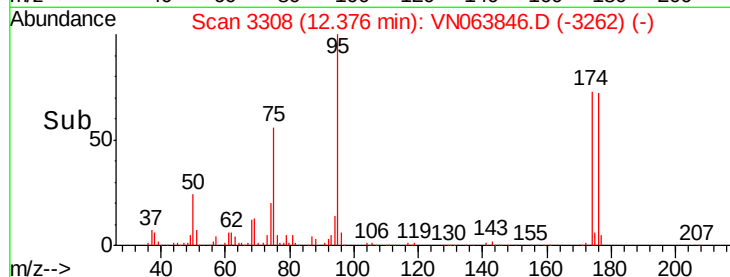
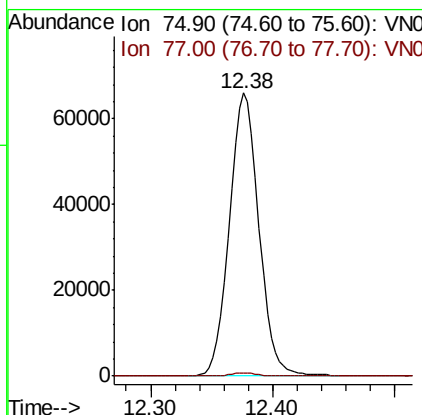
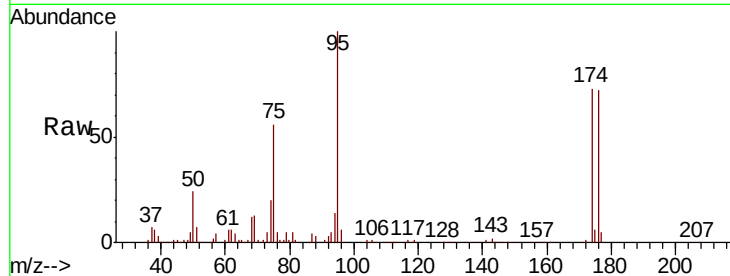




#76
 1,2,3-Trichloropropane
 Concen: 30.585 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN063846.D
 Acq: 3 Oct 2020 2:21

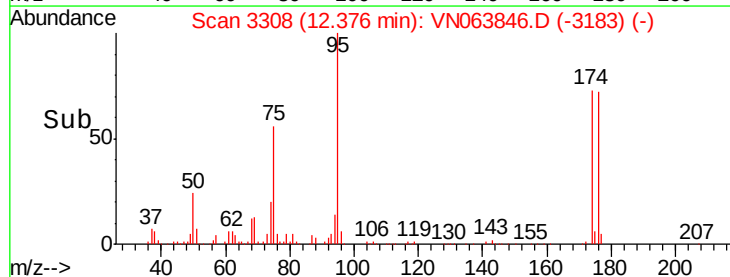
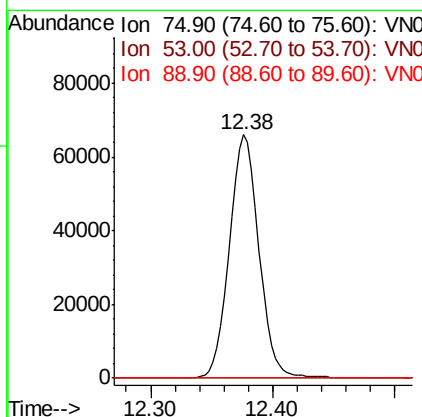
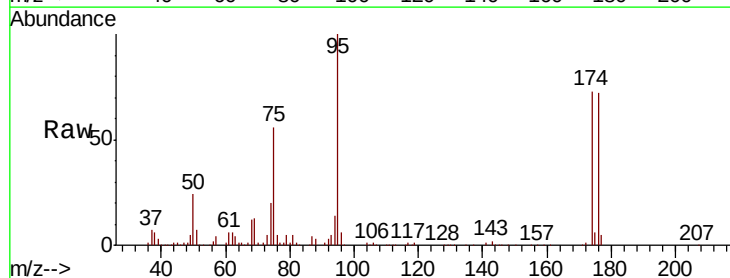
Instrument :
 MSVOA_N
 ClientSampled :
 RO-15

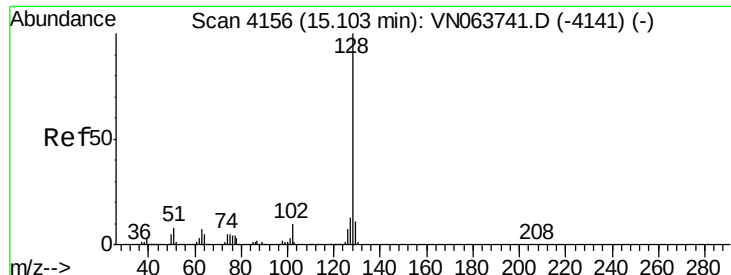
Tot Ion: 75 Resp: 111485
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 88.089 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN063846.D
 Acq: 3 Oct 2020 2:21

Tgt Ion: 75 Resp: 111485
 Ion Ratio Lower Upper
 75 100
 53 0.1 88.2 132.2#
 89 0.0 36.0 54.0#

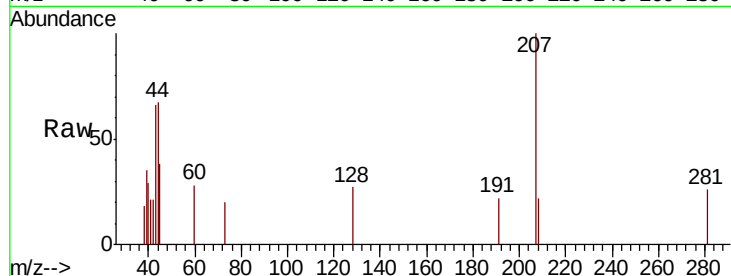




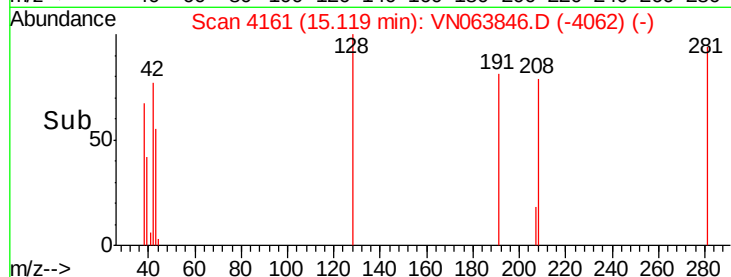
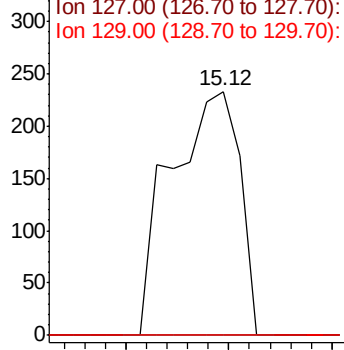
#95
Naphthalene
Concen: 1.948 ug/l
RT: 15.12 min Scan# 4161
Delta R.T. 0.02 min
Lab File: VN063846.D
Acq: 3 Oct 2020 2:21

Instrument :
MSVOA_N
ClientSampleId :
RO-15

Tot Ion:128 Resp: 215
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



Time-->