

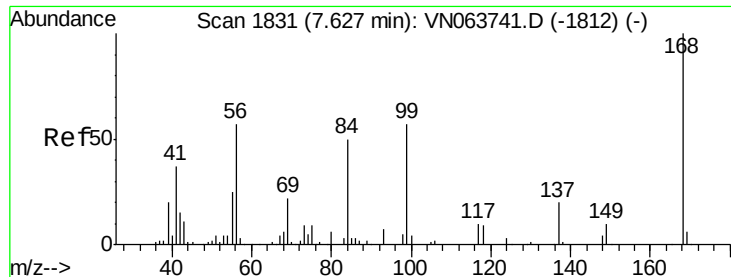
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100920\
 Data File : VN064068.D
 Acq On : 10 Oct 2020 4:49
 Operator : JC/MD
 Sample : L4319-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 11995

Quant Time: Oct 10 05:50:39 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	7.62	168	199074	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	400415	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	414025	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	156909	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	181826	55.29	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.58%	
35) Dibromofluoromethane	7.55	113	133123	47.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.82%	
50) Toluene-d8	10.06	98	518948	49.27	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.54%	
62) 4-Bromofluorobenzene	12.38	95	193568	48.89	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.78%	
Target Compounds				Qvalue		
16) Acetone	3.78	43	41322	40.815	ug/l	95
17) Carbon Disulfide	4.02	76	608	0.811	ug/l #	76
18) Methyl Acetate	4.27	43	1576	0.600	ug/l	96
20) Methylene Chloride	4.51	84	10869	4.776	ug/l	92
25) 2-Butanone	6.78	43	985	0.686	ug/l	97
29) Tetrahydrofuran	7.16	42	491	0.510	ug/l #	69
31) Cyclohexane	7.62	56	5419	1.419	ug/l #	6
36) 1,1-Dichloropropene	7.62	75	18772	4.628	ug/l #	48
38) Carbon Tetrachloride	7.62	117	21996	4.836	ug/l #	15
43) Isopropyl Acetate	8.13	43	74054	11.140	ug/l	98
45) 1,2-Dichloropropane	9.23	63	1216	0.389	ug/l #	44
48) Methyl methacrylate	9.14	41	5206	1.585	ug/l #	12
49) 1,4-Dioxane	9.23	88	63	1.350	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	7358	1.886	ug/l	95
54) cis-1,3-Dichloropropene	9.87	75	29189	5.852	ug/l #	66
56) Ethyl methacrylate	10.52	69	2519	0.618	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3429	0.705	ug/l #	43
59) 2-Hexanone	10.74	43	59778	20.627	ug/l #	55
74) N-amyl acetate	12.01	43	3335	2.815	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	106423	30.768	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	106423	88.616	ug/l #	6
95) Naphthalene	15.11	128	68	1.932	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064068.D

Acq: 10 Oct 2020 4:49

Instrument :

MSVOA_N

ClientSampleId :

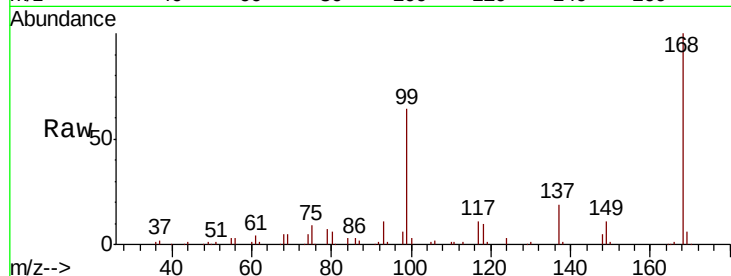
11995

Tot Ion:168 Resp: 199074

Ion Ratio Lower Upper

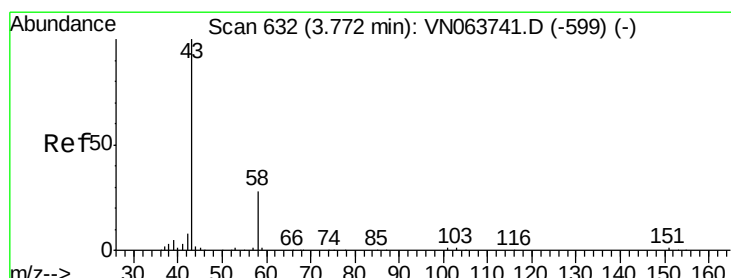
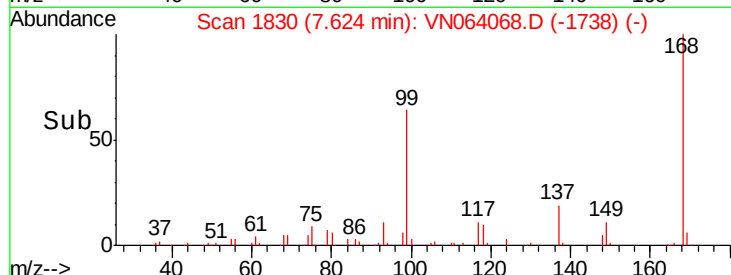
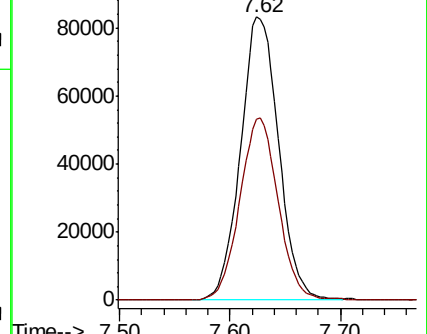
168 100

99 64.0 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 40.815 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN064068.D

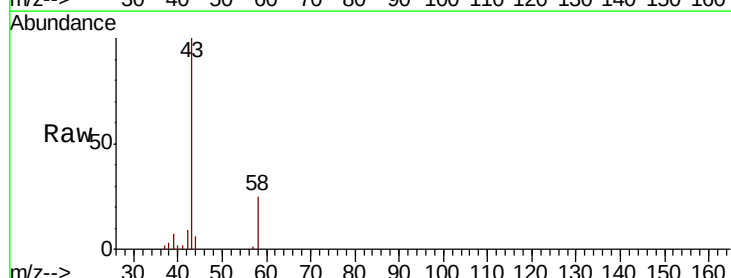
Acq: 10 Oct 2020 4:49

Tgt Ion: 43 Resp: 41322

Ion Ratio Lower Upper

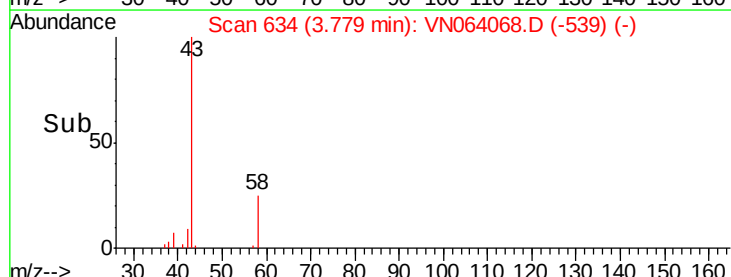
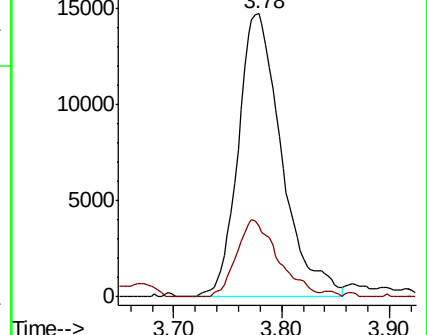
43 100

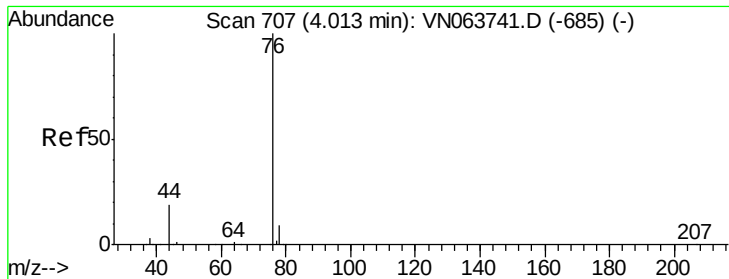
58 25.1 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN





#17

Carbon Disulfide

Concen: 0.811 ug/l

RT: 4.02 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN064068.D

Acq: 10 Oct 2020 4:49

Instrument :

MSVOA_N

ClientSampleId :

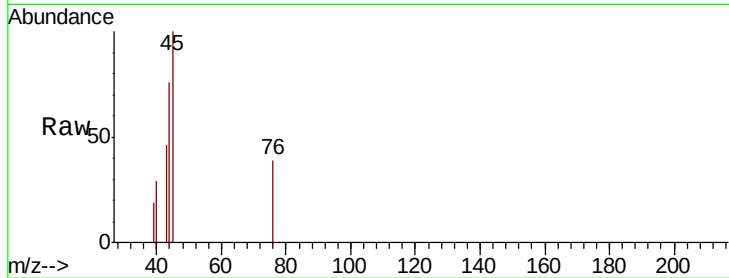
11995

Tot Ion: 76 Resp: 608

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

300

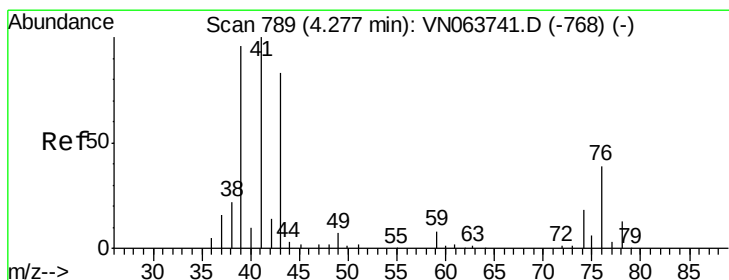
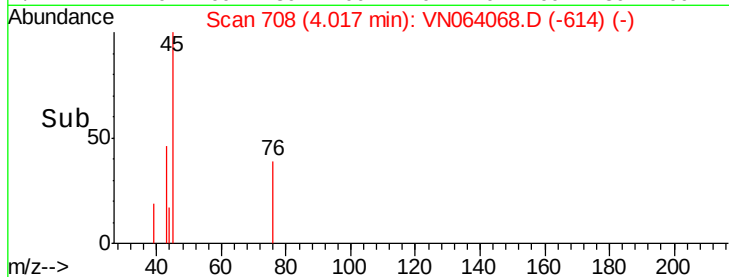
200

100

0

3.98 4.00 4.02 4.04

Time-->



#18

Methyl Acetate

Concen: 0.600 ug/l

RT: 4.27 min Scan# 786

Delta R.T. -0.01 min

Lab File: VN064068.D

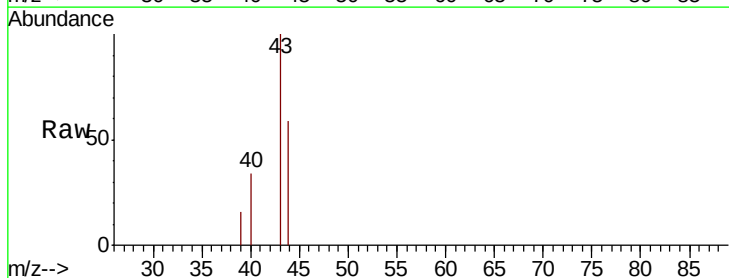
Acq: 10 Oct 2020 4:49

Tgt Ion: 43 Resp: 1576

Ion Ratio Lower Upper

43 100

74 20.1 17.4 26.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

1500

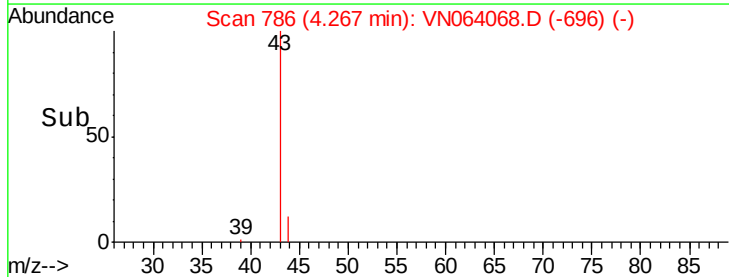
1000

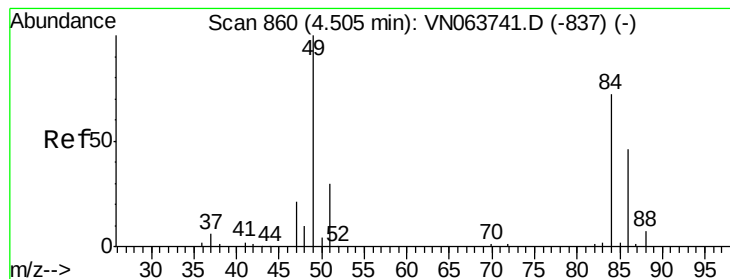
500

0

4.24 4.26 4.27 4.28

Time-->





#20

Methvlene Chloride

Concen: 4.776 ug/l

RT: 4.51 min Scan# 860

Delta R.T. 0.00 min

Lab File: VN064068.D

Acq: 10 Oct 2020 4:49

Instrument :

MSVOA_N

ClientSampleId :

11995

Tot Ion: 84 Resp: 10869

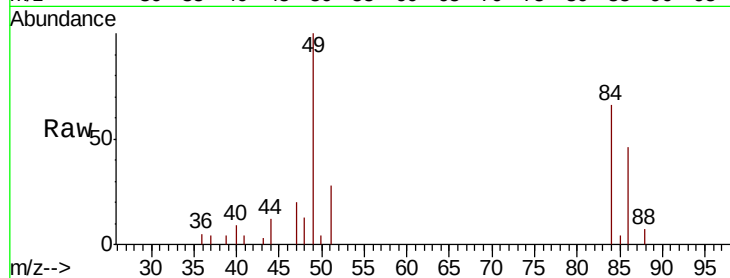
Ion Ratio Lower Upper

84 100

49 150.4 110.4 165.6

51 41.5 33.3 49.9

86 69.7 50.7 76.1

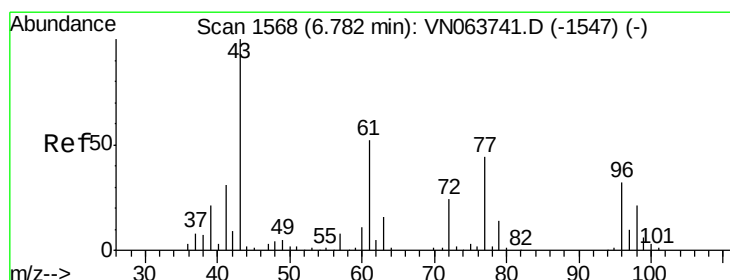
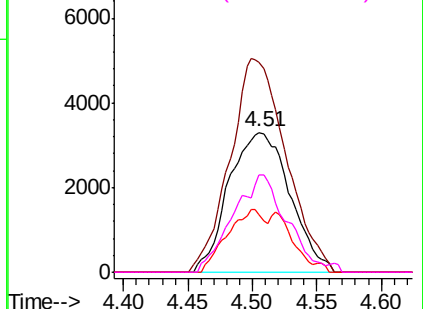
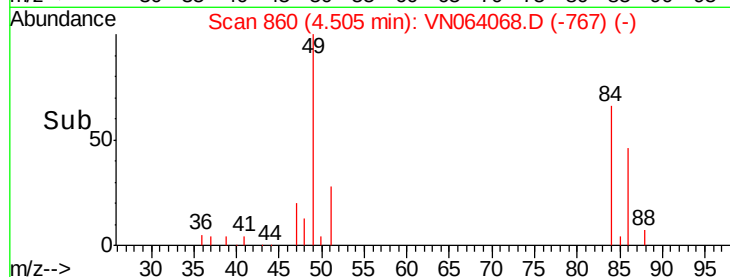


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 0.686 ug/l

RT: 6.78 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VN064068.D

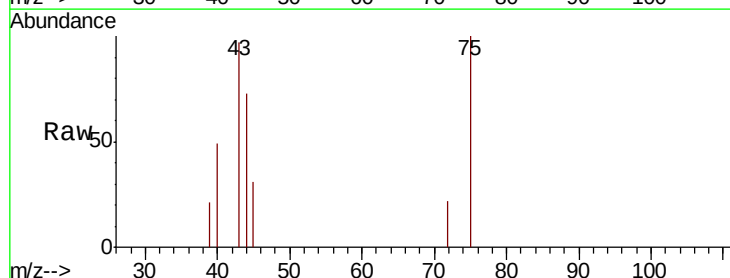
Acq: 10 Oct 2020 4:49

Tgt Ion: 43 Resp: 985

Ion Ratio Lower Upper

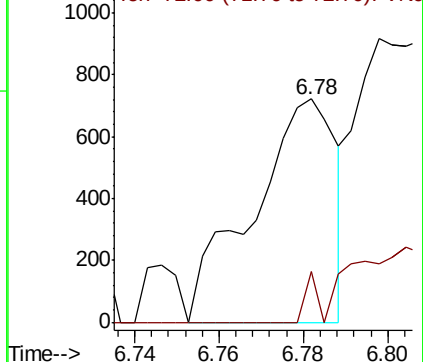
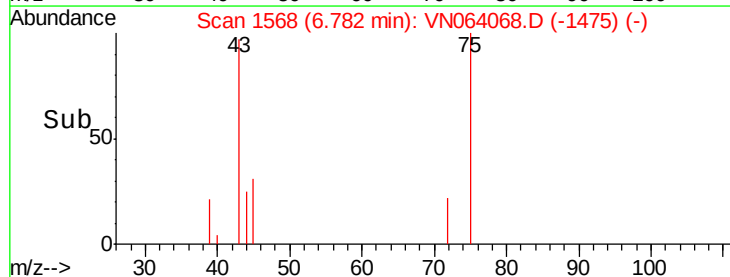
43 100

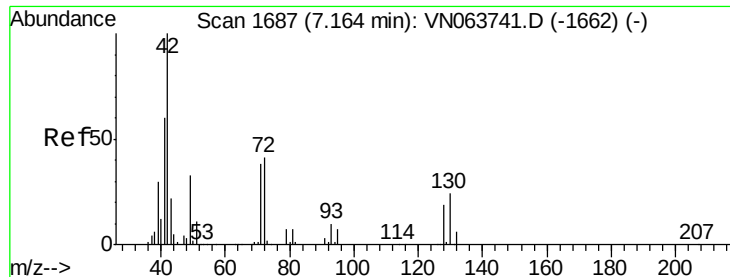
72 22.7 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.510 ug/l

RT: 7.16 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN064068.D

Acq: 10 Oct 2020 4:49

Instrument :

MSVOA_N

ClientSampled :

11995

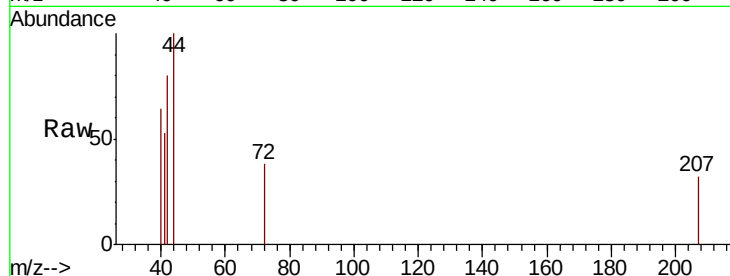
Tot Ion: 42 Resp: 491

Ion Ratio Lower Upper

42 100

72 40.9 32.8 49.2

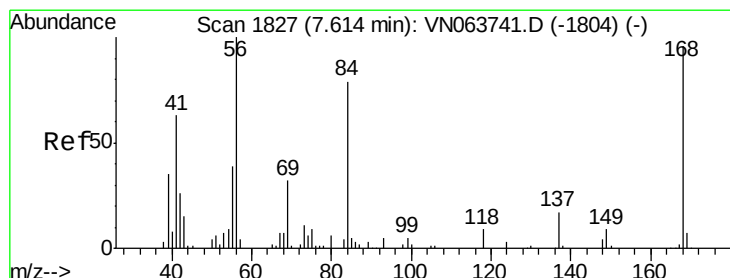
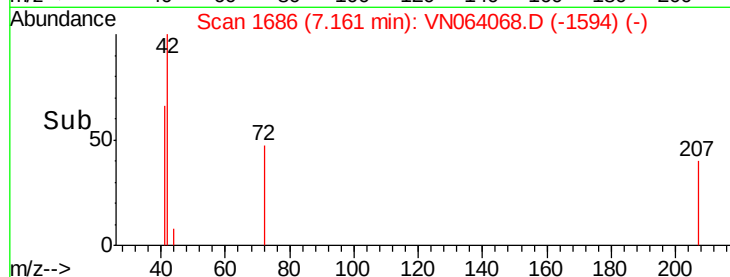
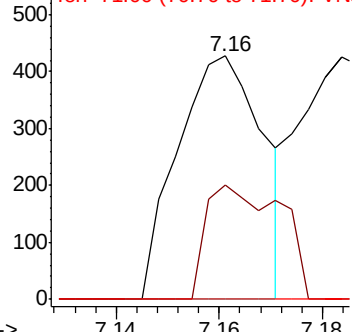
71 0.0 30.6 45.8#



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: 1.419 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN064068.D

Acq: 10 Oct 2020 4:49

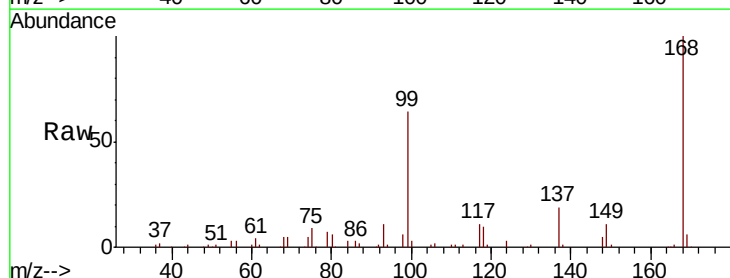
Tgt Ion: 56 Resp: 5419

Ion Ratio Lower Upper

56 100

69 182.6 25.4 38.2#

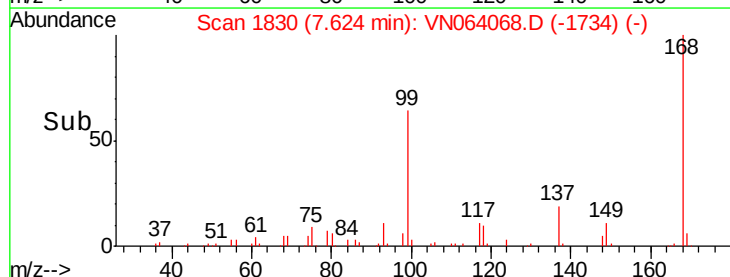
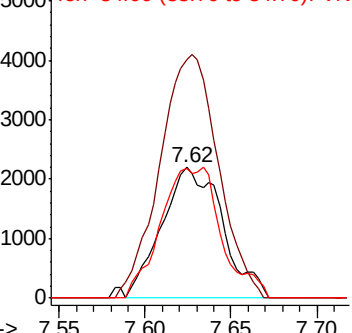
84 99.0 63.3 94.9#

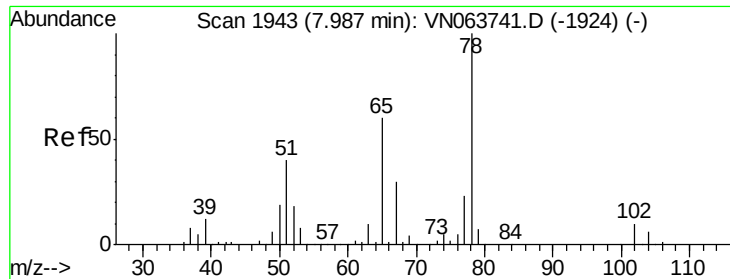


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

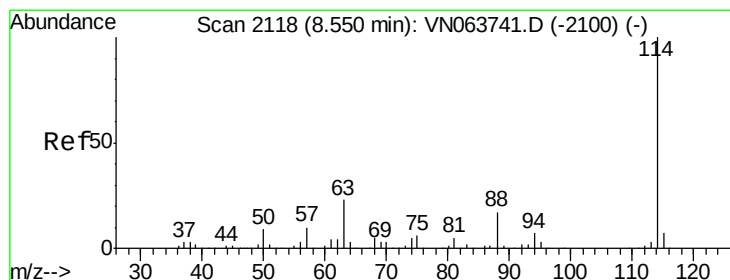
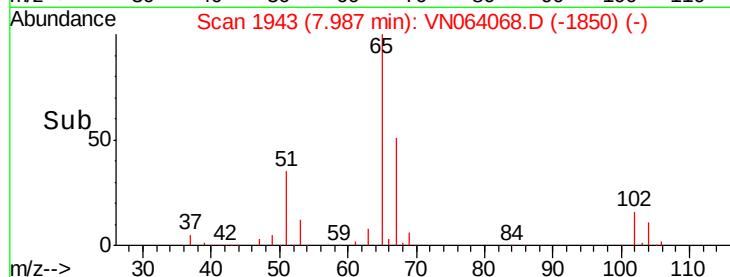
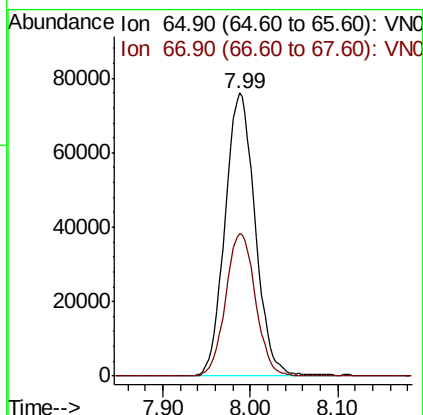
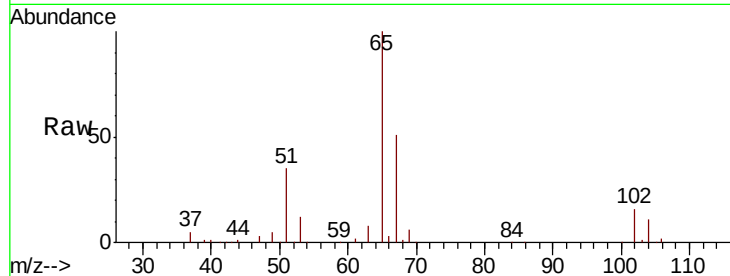




#33
 1,2-Dichloroethane-d4
 Concen: 55.286 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064068.D
 Acq: 10 Oct 2020 4:49

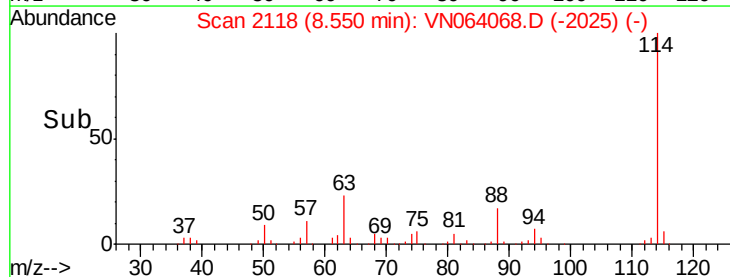
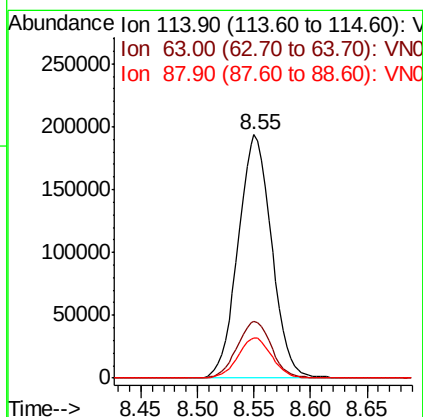
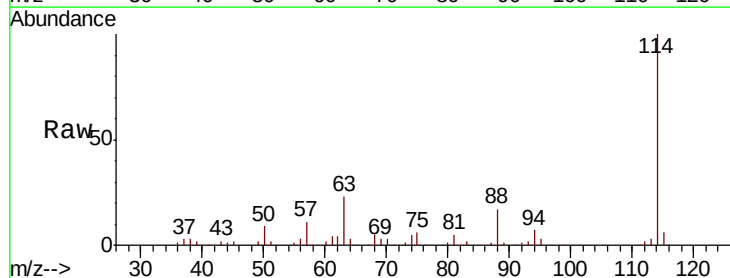
Instrument :
 MSVOA_N
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 11995

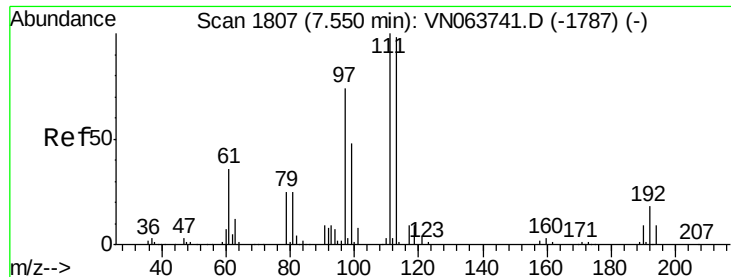
Tot Ion: 65 Resp: 181826
 Ion Ratio Lower Upper
 65 100
 67 49.7 0.0 99.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064068.D
 Acq: 10 Oct 2020 4:49

Tgt Ion: 114 Resp: 400415
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 45.0
 88 16.6 0.0 34.0

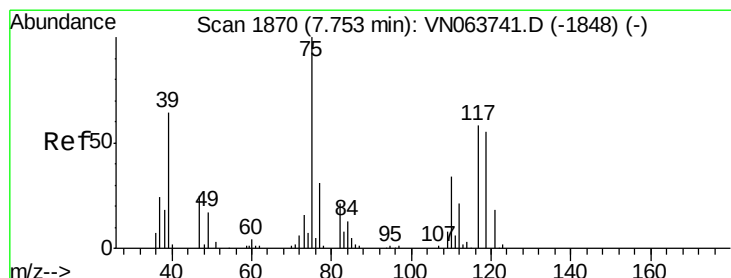
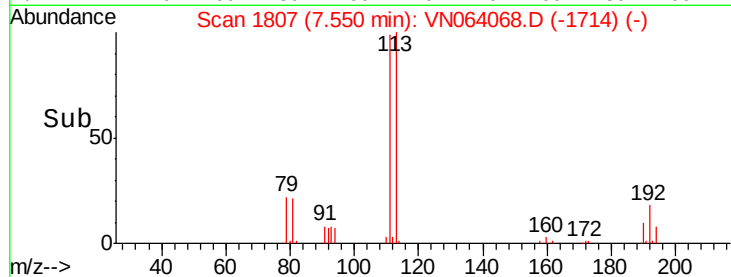
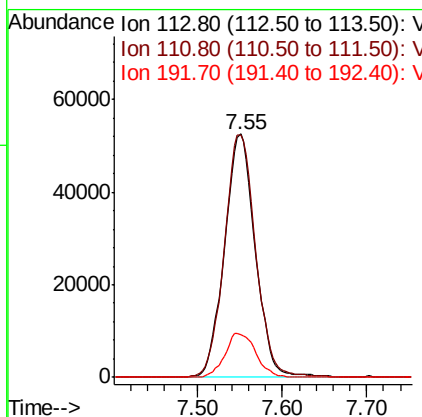
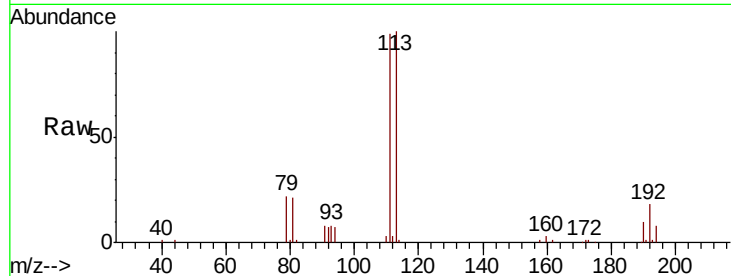




#35
 Dibromofluoromethane
 Concen: 47.914 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064068.D
 Acq: 10 Oct 2020 4:49

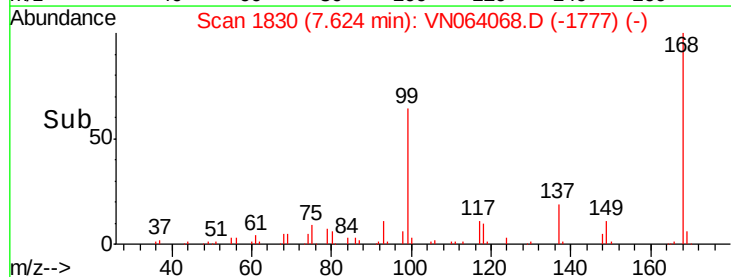
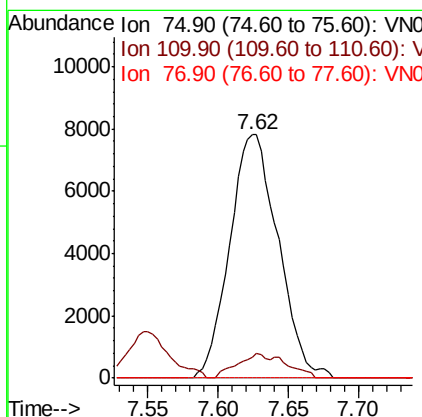
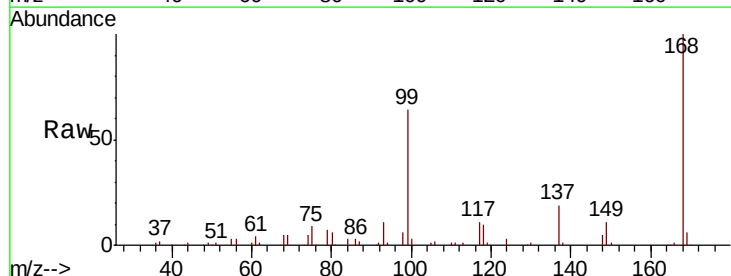
Instrument :
 MSVOA_N
 ClientSampleId :
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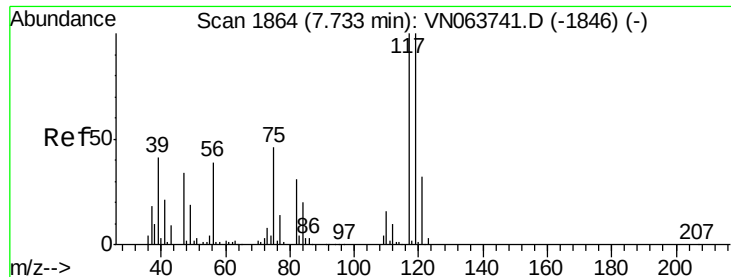
Tot Ion:113 Resp: 133123
 Ion Ratio Lower Upper
 113 100
 111 101.3 81.8 122.8
 192 18.2 14.2 21.2



#36
 1,1-Dichloropropene
 Concen: 4.628 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064068.D
 Acq: 10 Oct 2020 4:49

Tgt Ion: 75 Resp: 18772
 Ion Ratio Lower Upper
 75 100
 110 6.4 16.9 50.6#
 77 0.0 24.5 36.7#

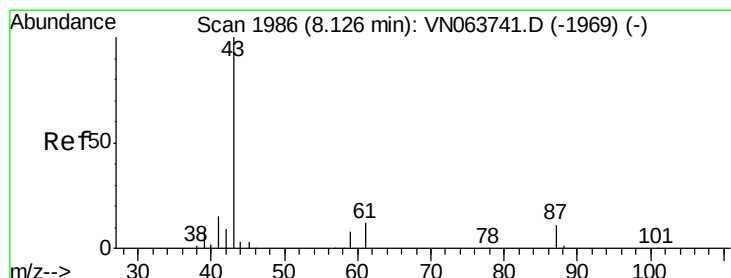
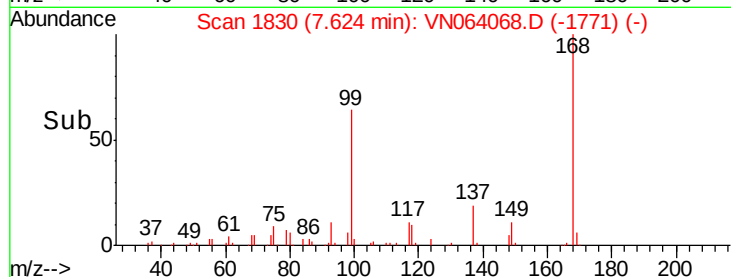
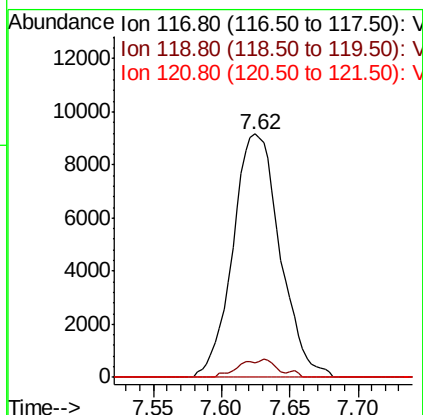
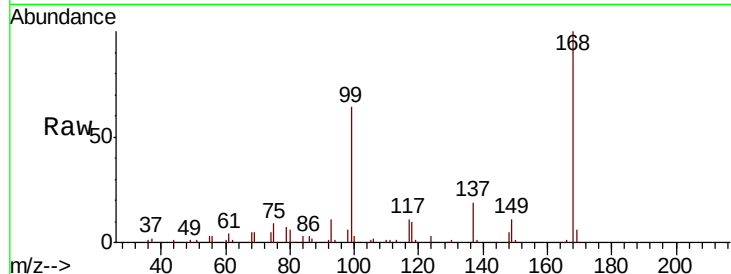




#38
Carbon Tetrachloride
Concen: 4.836 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. -0.11 min
Lab File: VN064068.D
Acq: 10 Oct 2020 4:49

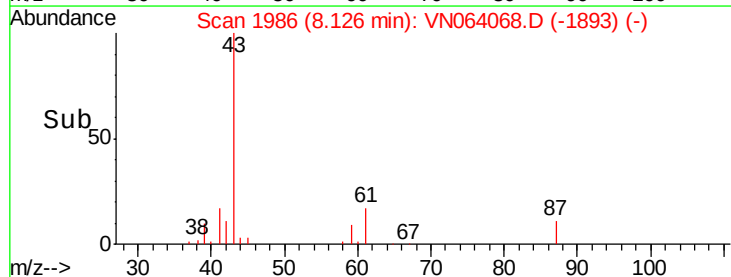
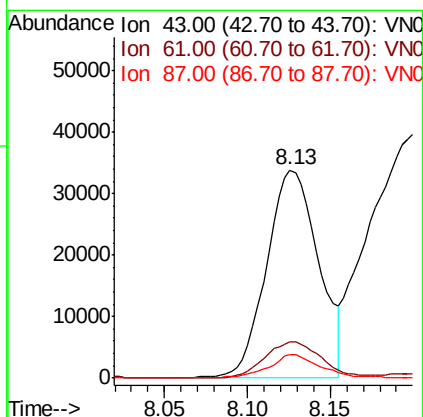
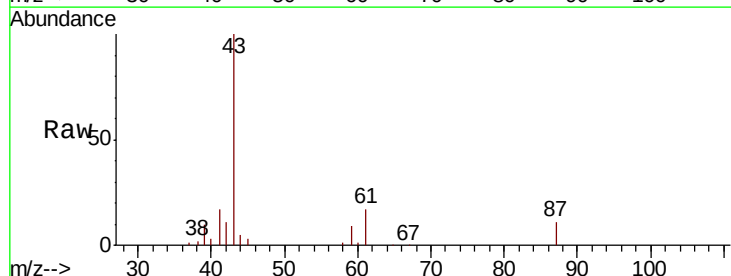
Instrument :
MSVOA_N
ClientSampled :
11995

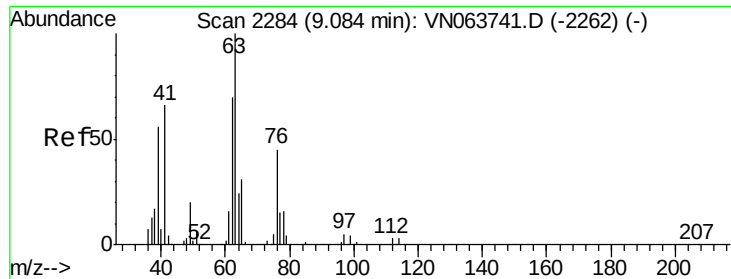
Tot Ion:117 Resp: 21996
Ion Ratio Lower Upper
117 100
119 5.8 80.1 120.1#
121 0.0 25.7 38.5#



#43
Isopropyl Acetate
Concen: 11.140 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. 0.00 min
Lab File: VN064068.D
Acq: 10 Oct 2020 4:49

Tgt Ion: 43 Resp: 74054
Ion Ratio Lower Upper
43 100
61 19.1 14.2 21.4
87 10.9 9.0 13.6

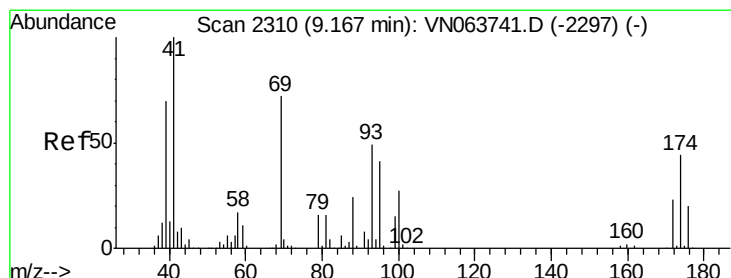
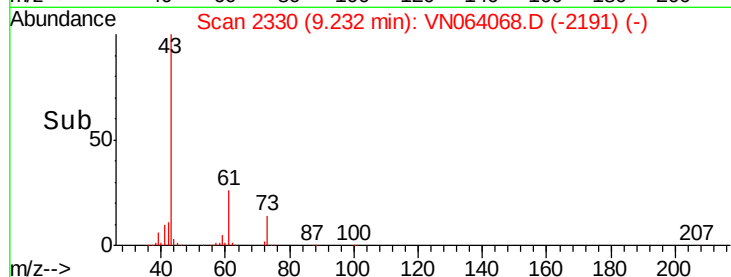
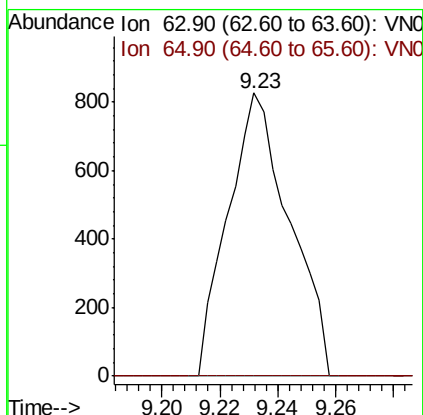
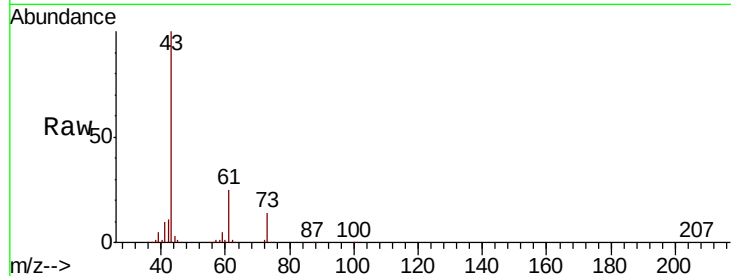




#45
 1,2-Dichloropropane
 Concen: 0.389 ug/l
 RT: 9.23 min Scan# 2330
 Delta R.T. 0.15 min
 Lab File: VN064068.D
 Acq: 10 Oct 2020 4:49

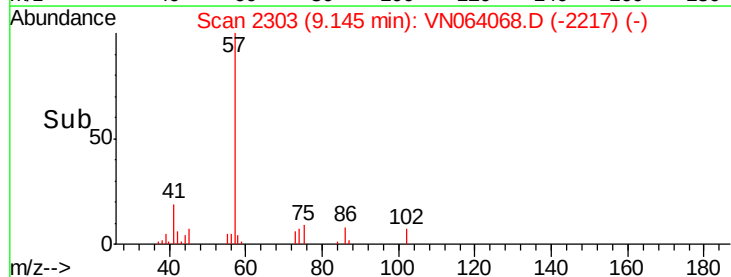
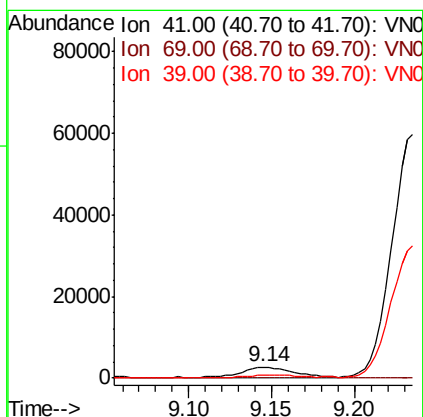
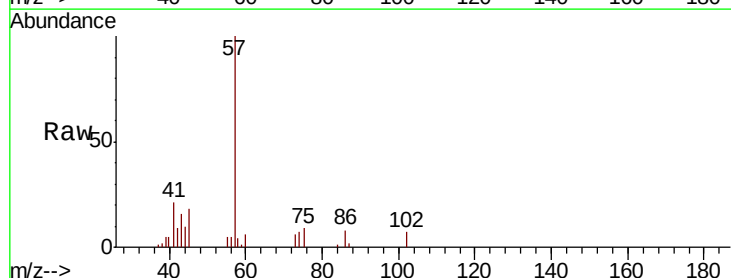
Instrument :
 MSVOA_N
 ClientSampleId :
 11995

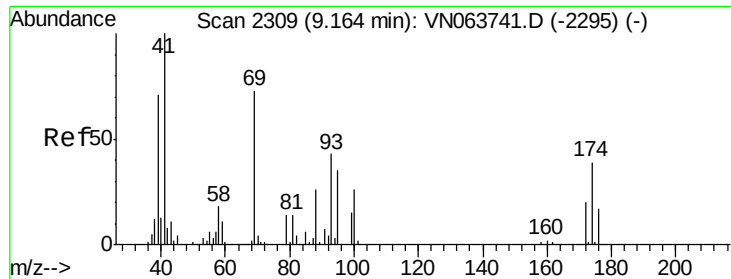
Tot Ion: 63 Resp: 1216
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.7 37.1#



#48
 Methyl methacrylate
 Concen: 1.585 ug/l
 RT: 9.14 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN064068.D
 Acq: 10 Oct 2020 4:49

Tgt Ion: 41 Resp: 5206
 Ion Ratio Lower Upper
 41 100
 69 0.0 60.9 91.3#
 39 0.0 57.5 86.3#





#49

1,4-Dioxane

Concen: 1.350 ug/l

RT: 9.23 min Scan# 2329

Delta R.T. 0.06 min

Lab File: VN064068.D

Acq: 10 Oct 2020 4:49

Instrument :

MSVOA_N

ClientSampleId :

11995

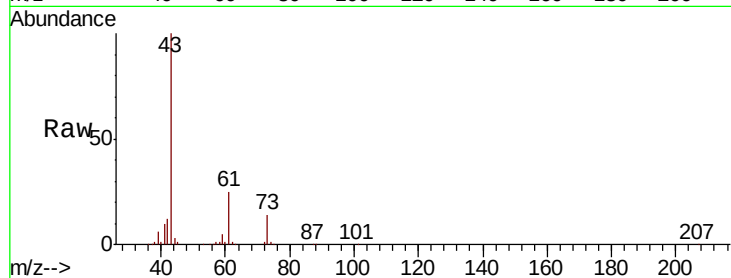
Tot Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 1712455.6 33.1 49.7#

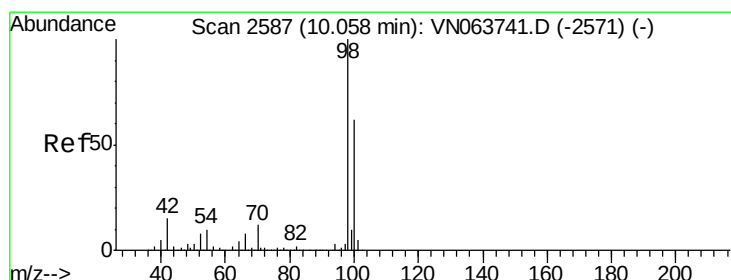
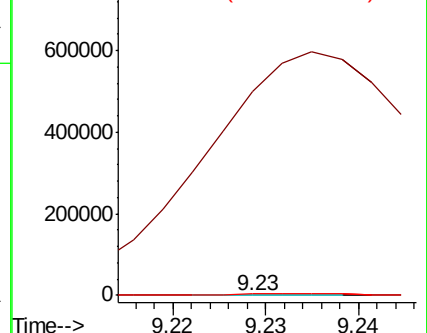
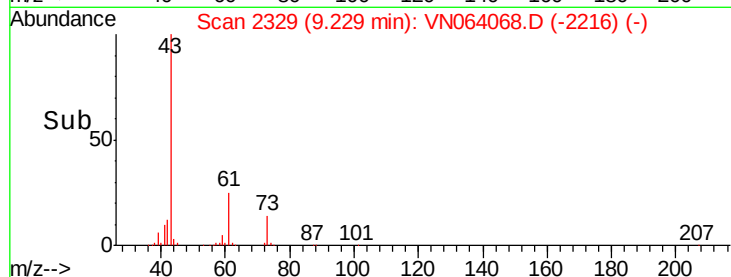
58 9188.9 58.9 88.3#



Abundance Ion 88.00 (87.70 to 88.70): VN064068.D (-2216) (-)

Ion 43.00 (42.70 to 43.70): VN064068.D (-2216) (-)

Ion 58.00 (57.70 to 58.70): VN064068.D (-2216) (-)



#50

Toluene-d8

Concen: 49.271 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064068.D

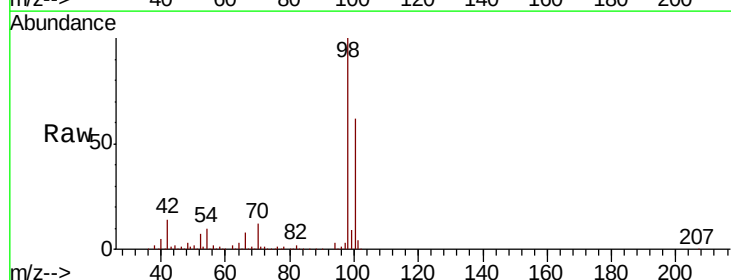
Acq: 10 Oct 2020 4:49

Tgt Ion: 98 Resp: 518948

Ion Ratio Lower Upper

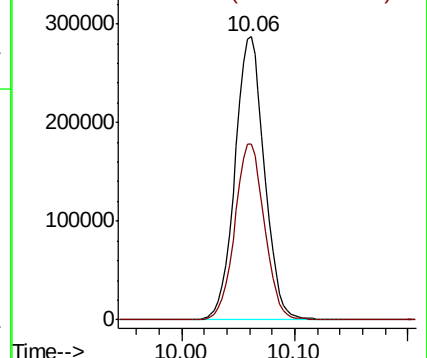
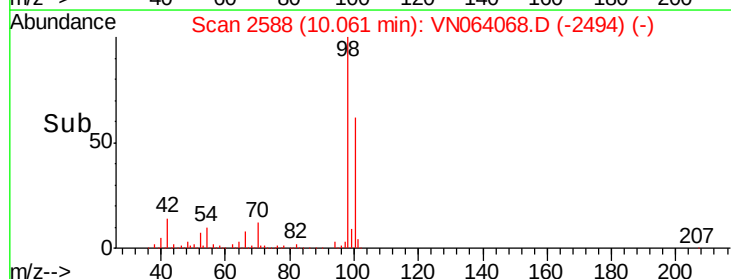
98 100

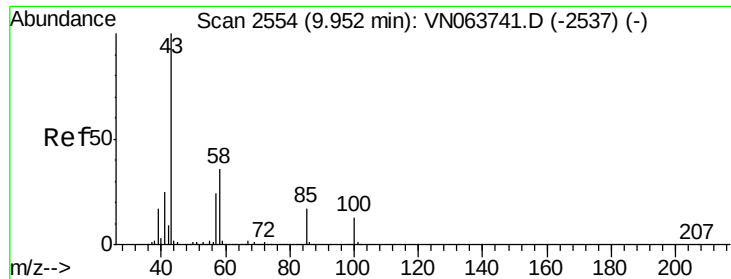
100 62.8 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN064068.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN064068.D (-2494) (-)

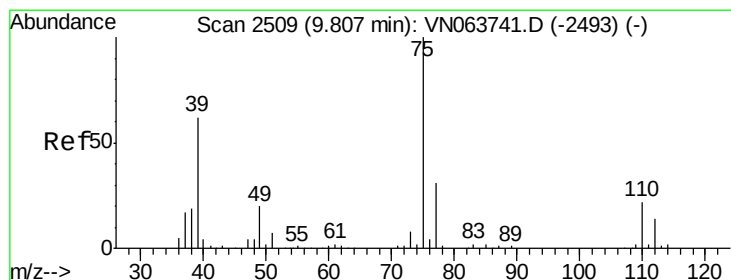
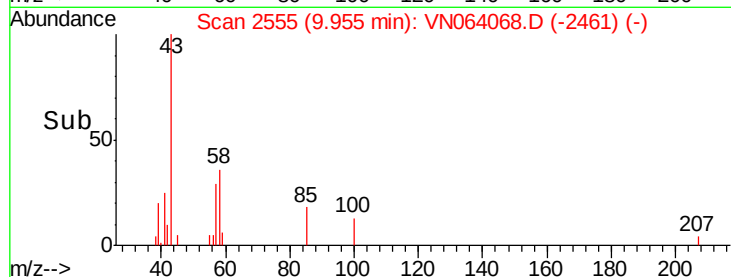
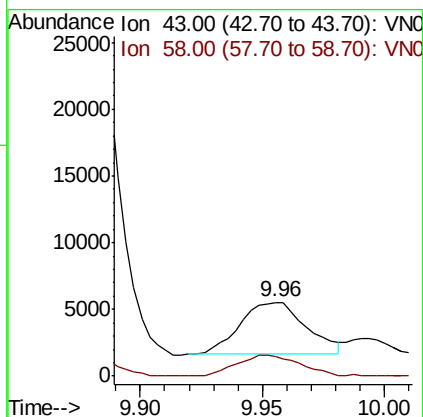
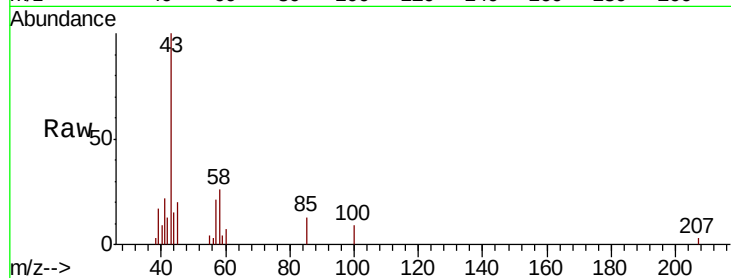




#51
 4-Methyl-2-Pentanone
 Concen: 1.886 ug/l
 RT: 9.96 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN064068.D
 Acq: 10 Oct 2020 4:49

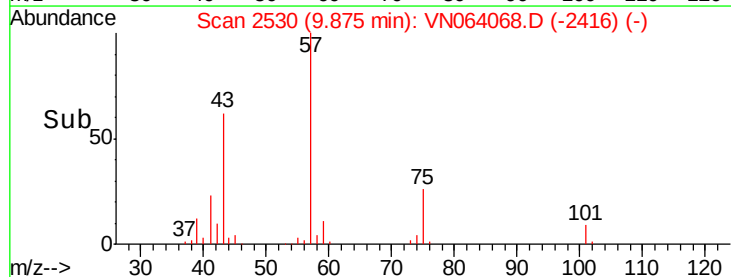
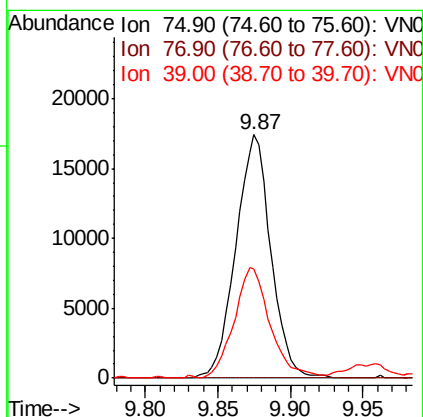
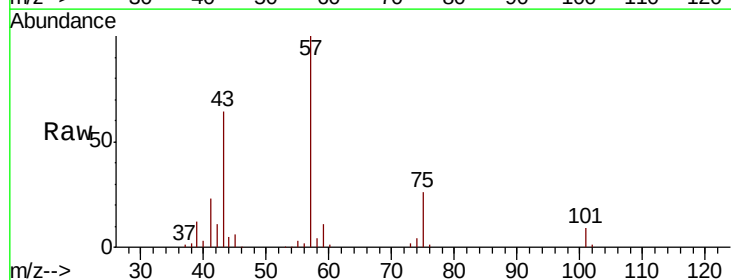
Instrument :
 MSVOA_N
 ClientSampleID :
 11995

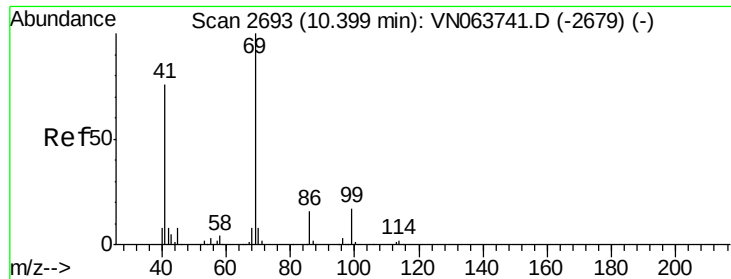
Tot Ion: 43 Resp: 7358
 Ion Ratio Lower Upper
 43 100
 58 38.1 28.4 42.6



#54
 cis-1,3-Dichloropropene
 Concen: 5.852 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064068.D
 Acq: 10 Oct 2020 4:49

Tgt Ion: 75 Resp: 29189
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 36.8#
 39 44.1 49.7 74.5#





#56

Ethyl methacrylate

Concen: 0.618 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN064068.D

Acq: 10 Oct 2020 4:49

Instrument :

MSVOA_N

ClientSampled :
11995

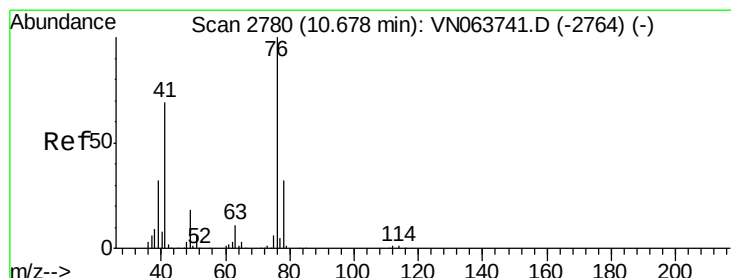
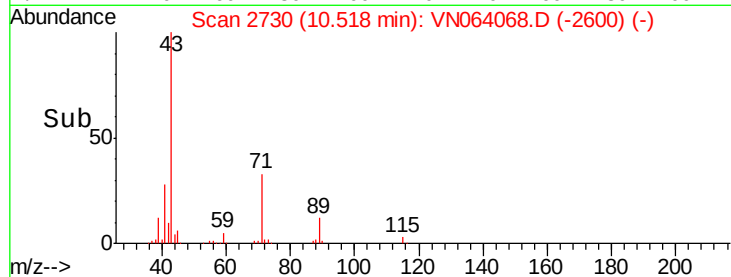
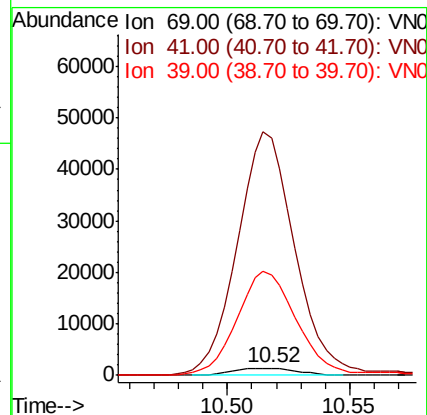
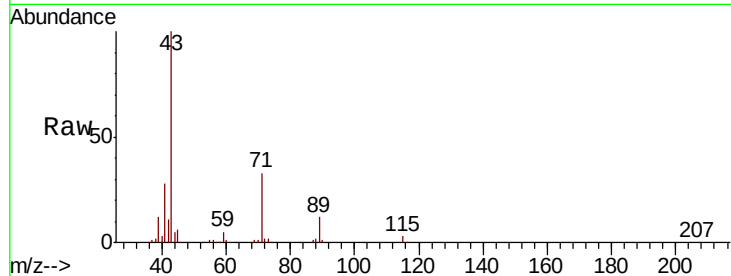
Tot Ion: 69 Resp: 2519

Ion Ratio Lower Upper

69 100

41 3103.0 61.1 91.7#

39 1354.5 42.2 63.4#



#57

1,3-Dichloropropane

Concen: 0.705 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064068.D

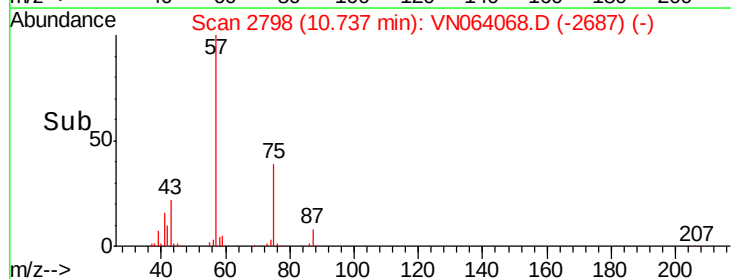
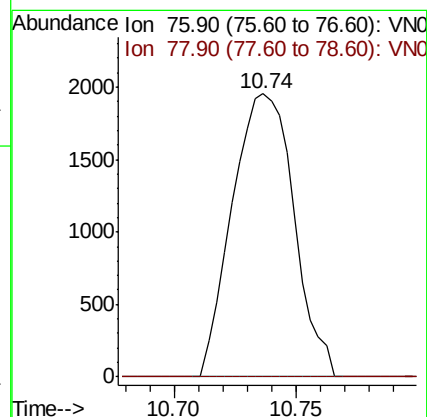
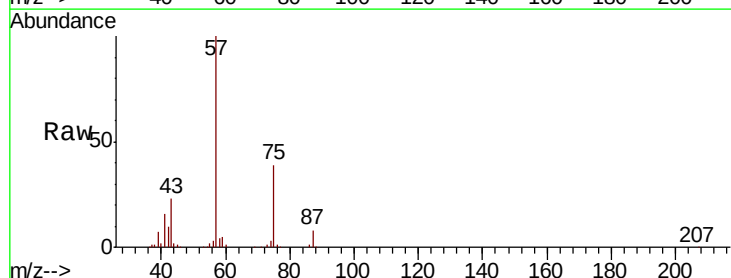
Acq: 10 Oct 2020 4:49

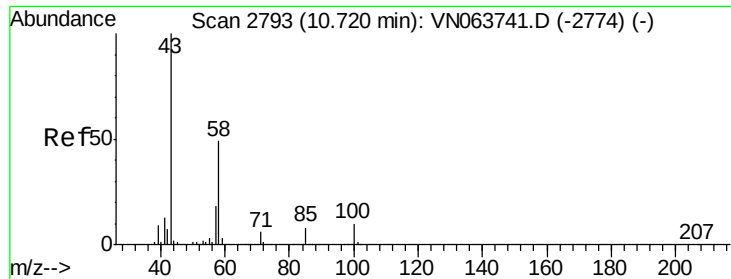
Tgt Ion: 76 Resp: 3429

Ion Ratio Lower Upper

76 100

78 0.0 25.2 37.8#





#59

2-Hexanone

Concen: 20.627 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064068.D

Acq: 10 Oct 2020 4:49

Instrument :

MSVOA_N

ClientSampled :

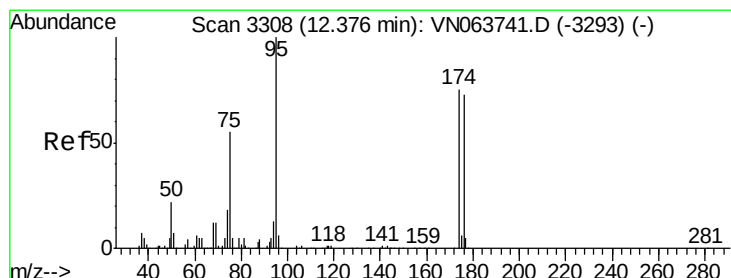
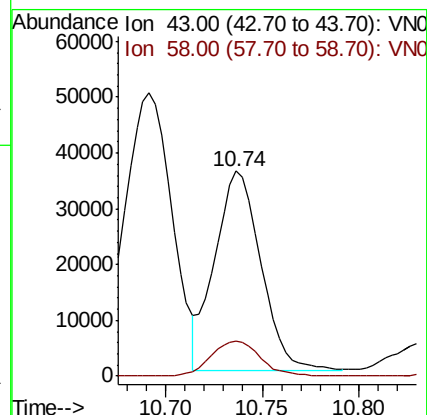
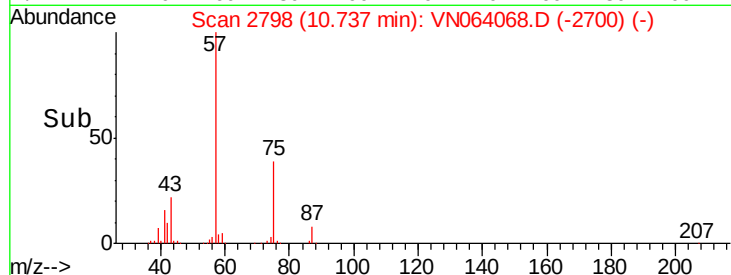
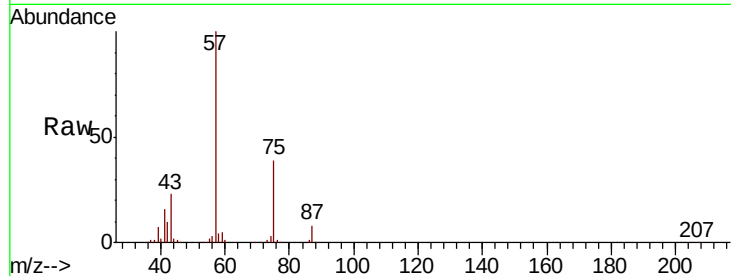
11995

Tot Ion: 43 Resp: 59778

Ion Ratio Lower Upper

43 100

58 18.6 24.6 73.8#



#62

4-Bromofluorobenzene

Concen: 48.890 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064068.D

Acq: 10 Oct 2020 4:49

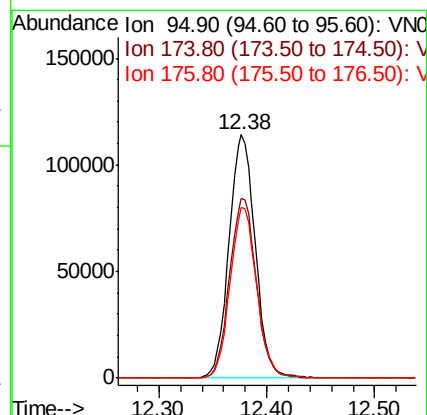
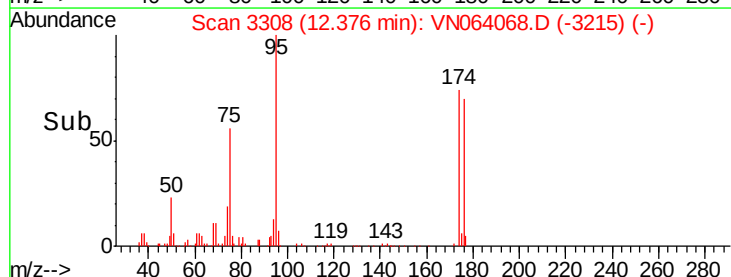
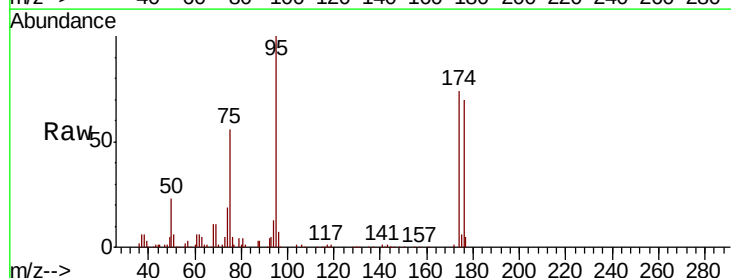
Tgt Ion: 95 Resp: 193568

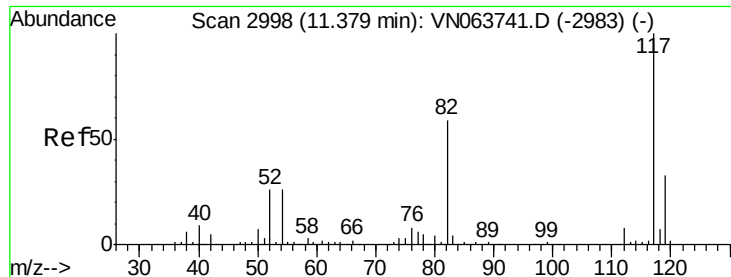
Ion Ratio Lower Upper

95 100

174 75.2 0.0 150.6

176 70.7 0.0 145.4

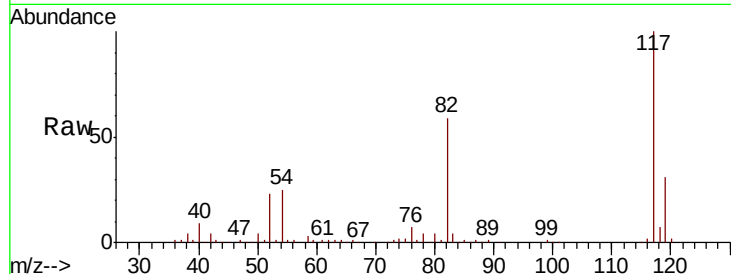




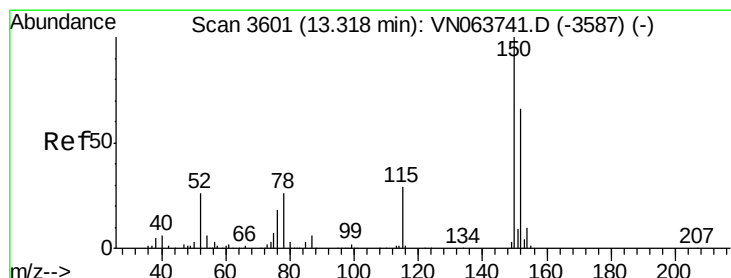
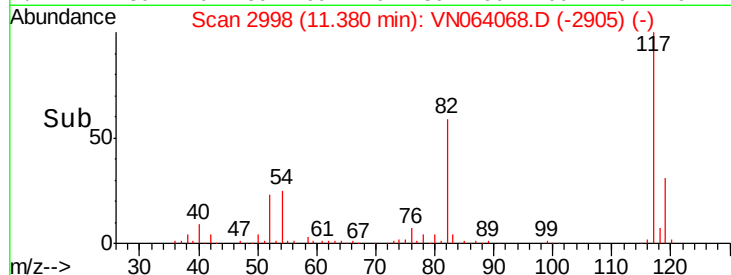
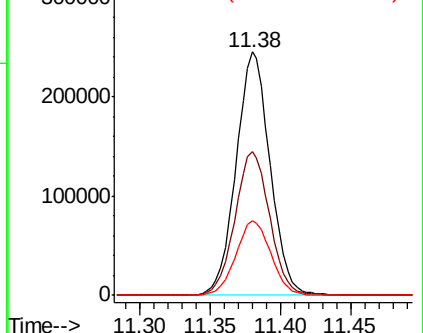
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064068.D
Acq: 10 Oct 2020 4:49

Instrument :
MSVOA_N
ClientSampleId :
11995

Tot Ion:117 Resp: 414025
Ion Ratio Lower Upper
117 100
82 58.9 47.4 71.2
119 30.5 26.4 39.6

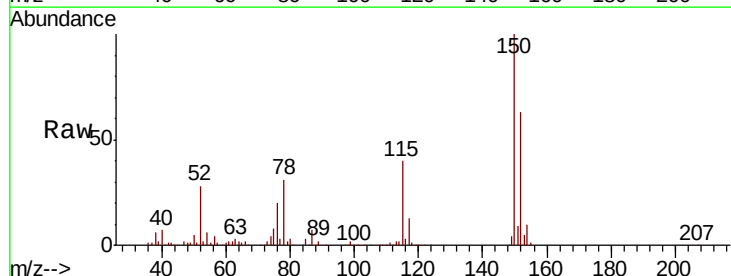


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

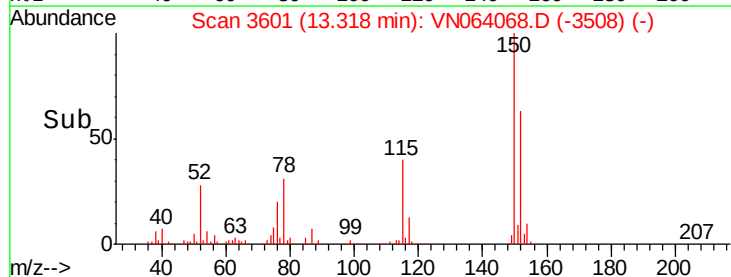
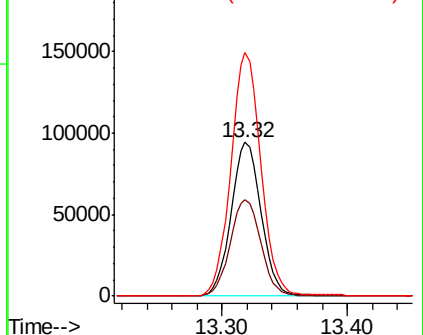


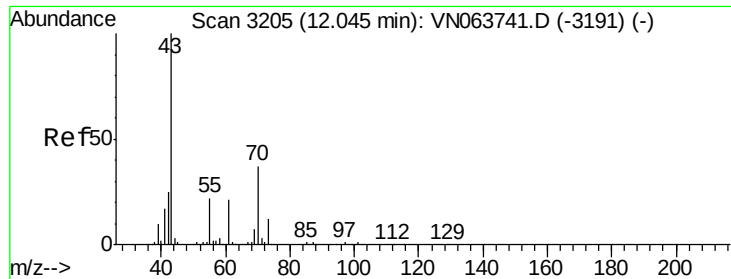
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064068.D
Acq: 10 Oct 2020 4:49

Tgt Ion:152 Resp: 156909
Ion Ratio Lower Upper
152 100
115 63.9 31.3 93.8
150 158.2 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-amvl acetate

Concen: 2.815 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN064068.D

Acq: 10 Oct 2020 4:49

Instrument :

MSVOA_N

ClientSampled :

11995

Tot Ion: 43 Resp: 3335

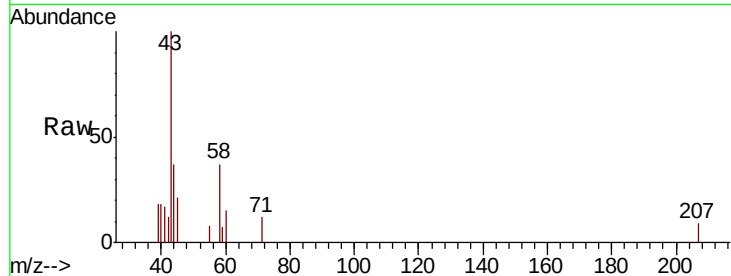
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 4.0 17.9 26.9#

61 0.0 17.0 25.4#

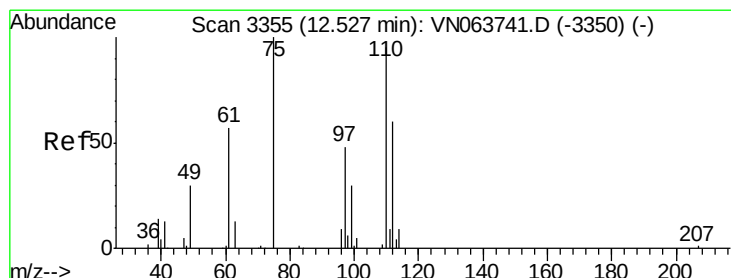
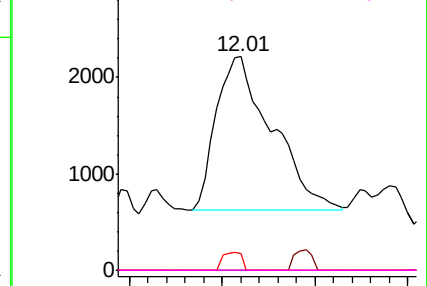
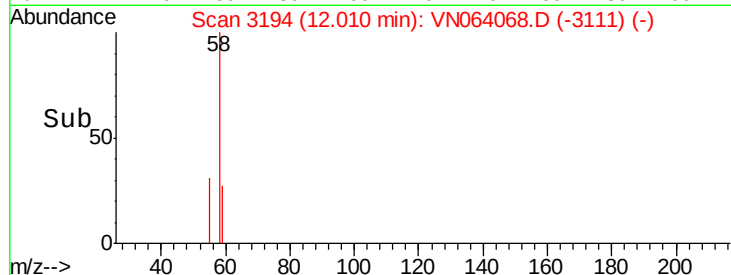


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 30.768 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064068.D

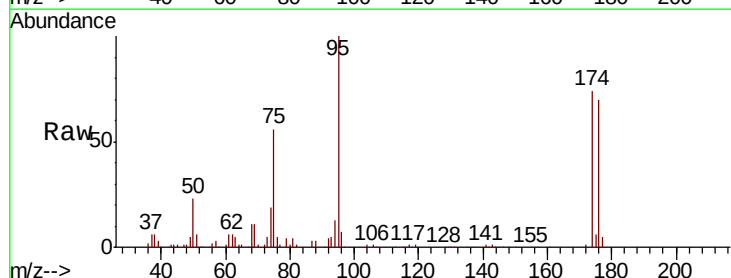
Acq: 10 Oct 2020 4:49

Tgt Ion: 75 Resp: 106423

Ion Ratio Lower Upper

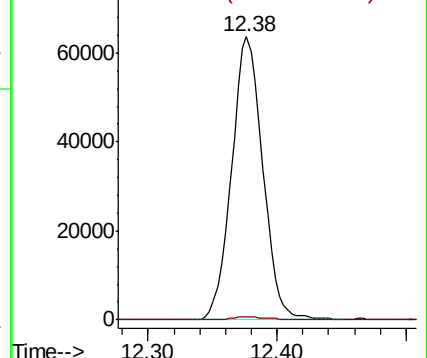
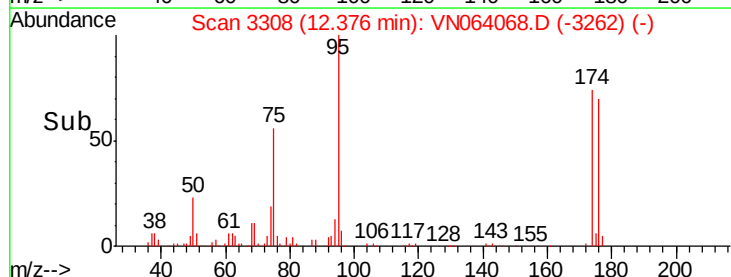
75 100

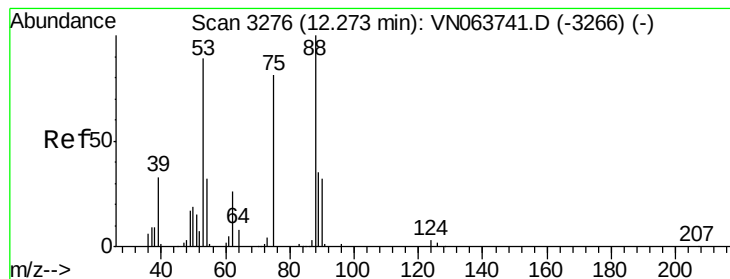
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 88.616 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064068.D

Acq: 10 Oct 2020 4:49

Instrument :

MSVOA_N

ClientSampleId :

11995

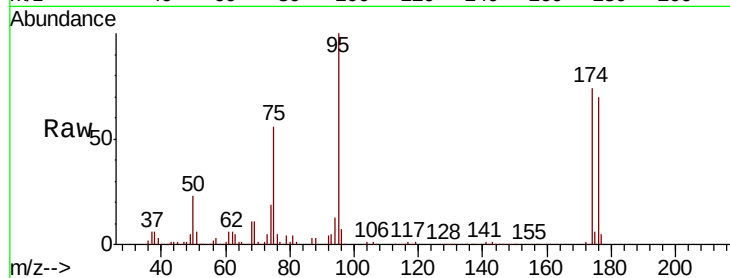
Tot Ion: 75 Resp: 106423

Ion Ratio Lower Upper

75 100

53 0.2 88.2 132.2#

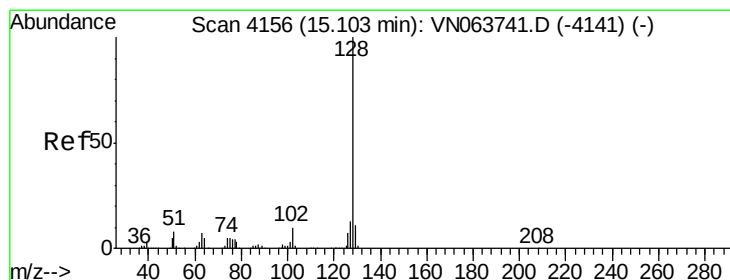
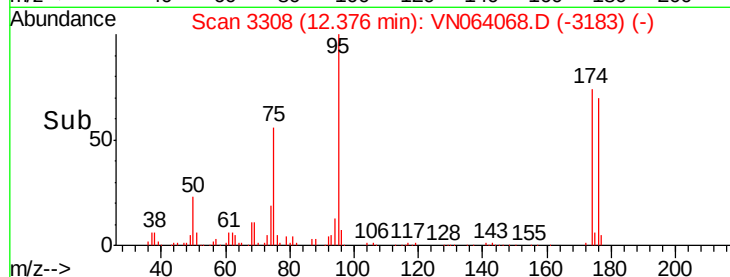
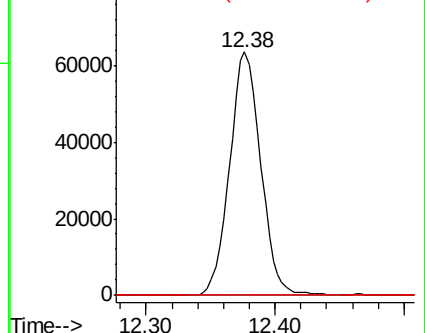
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN063741.D (-3266) (-)

Ion 53.00 (52.70 to 53.70): VN063741.D (-3266) (-)

Ion 88.90 (88.60 to 89.60): VN063741.D (-3266) (-)



#95

Naphthalene

Concen: 1.932 ug/l

RT: 15.11 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN064068.D

Acq: 10 Oct 2020 4:49

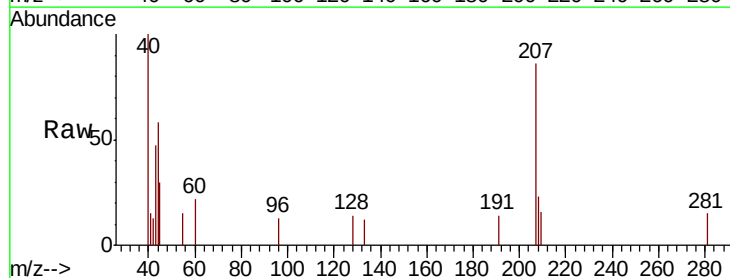
Tgt Ion: 128 Resp: 68

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): VN063741.D (-4141) (-)

Ion 127.00 (126.70 to 127.70): VN063741.D (-4141) (-)

Ion 129.00 (128.70 to 129.70): VN063741.D (-4141) (-)

