

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100620\
 Data File : VN063925.D
 Acq On : 7 Oct 2020 5:06
 Operator : JC/MD
 Sample : L4247-13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 B-19(4-5)

Quant Time: Oct 07 05:41:50 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	227651	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	422684	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	442315	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	173145	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	196676	52.29	ug/l	0.00
Spiked Amount			Recovery	=	104.58%	
35) Dibromofluoromethane	7.55	113	145275	49.53	ug/l	0.00
Spiked Amount			Recovery	=	99.06%	
50) Toluene-d8	10.06	98	554136	49.84	ug/l	0.00
Spiked Amount			Recovery	=	99.68%	
62) 4-Bromofluorobenzene	12.38	95	209533	50.13	ug/l	0.00
Spiked Amount			Recovery	=	100.26%	

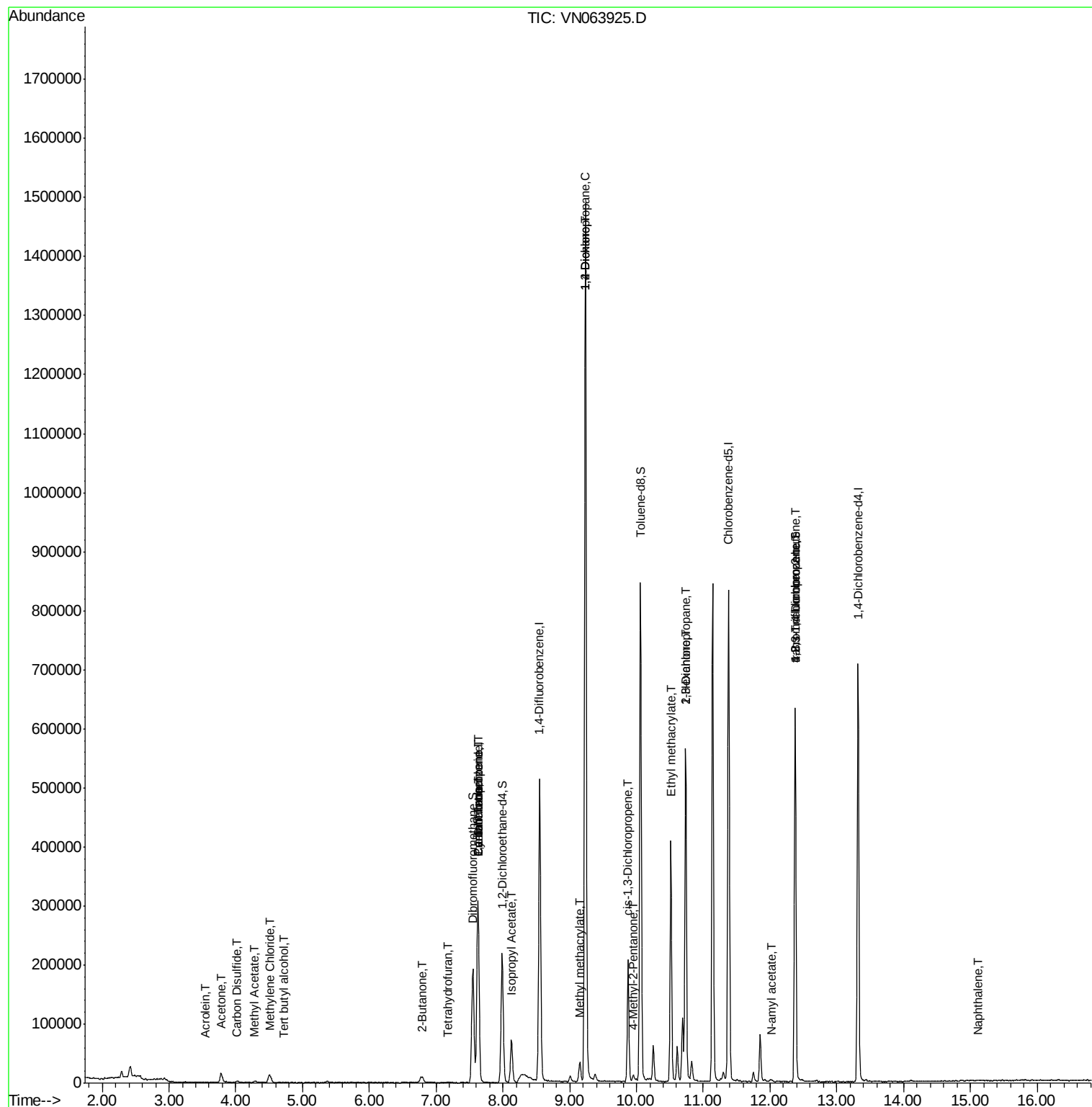
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	112	0.270	ug/l #	71
13) Acrolein	3.55	56	73	0.286	ug/l #	62
16) Acetone	3.78	43	26656	23.024	ug/l	99
17) Carbon Disulfide	4.02	76	2748	1.138	ug/l #	85
18) Methyl Acetate	4.27	43	1101	0.366	ug/l #	54
20) Methylene Chloride	4.50	84	9117	3.529	ug/l	96
25) 2-Butanone	6.79	43	4223	2.573	ug/l #	89
29) Tetrahydrofuran	7.17	42	693	0.630	ug/l #	68
31) Cyclohexane	7.63	56	6356	1.456	ug/l #	21
36) 1,1-Dichloropropene	7.62	75	21292	4.972	ug/l #	46
38) Carbon Tetrachloride	7.63	117	24807	5.166	ug/l #	14
43) Isopropyl Acetate	8.13	43	87457	12.463	ug/l	98
45) 1,2-Dichloropropane	9.23	63	1761	0.533	ug/l #	44
48) Methyl methacrylate	9.14	41	5245	1.513	ug/l #	12
49) 1,4-Dioxane	9.23	88	146	2.963	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	8436	2.048	ug/l #	69
54) cis-1,3-Dichloropropene	9.87	75	32423	6.158	ug/l #	71
56) Ethyl methacrylate	10.51	69	2212	0.514	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5280	1.029	ug/l #	43
59) 2-Hexanone	10.74	43	90335	29.529	ug/l #	54
74) N-amyl acetate	12.01	43	3388	2.768	ug/l #	48
76) 1,2,3-Trichloropropane	12.38	75	116362	30.487	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	116362	87.807	ug/l #	6
95) Naphthalene	15.12	128	704	1.997	ug/l #	69

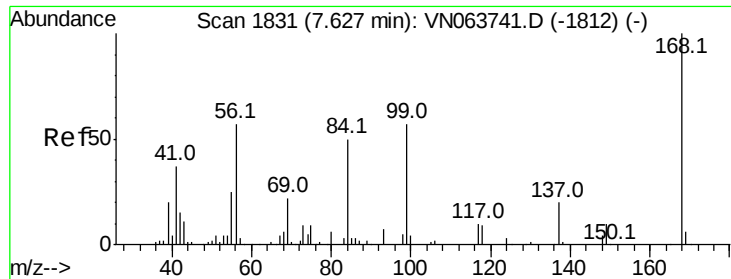
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN063925.D

Acq: 7 Oct 2020 5:06

Instrument :

MSVOA_N

ClientSampled :

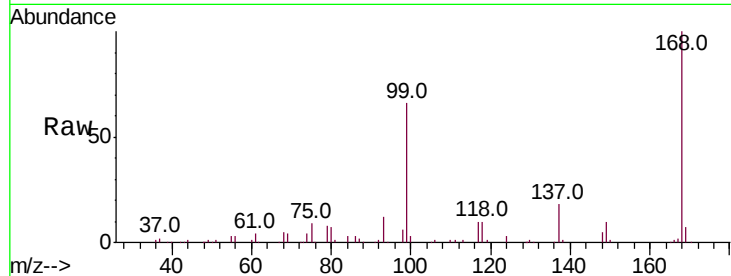
B-19(4-5)

Tot Ion:168 Resp: 227651

Ion Ratio Lower Upper

168 100

99 65.9 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.62

100000

80000

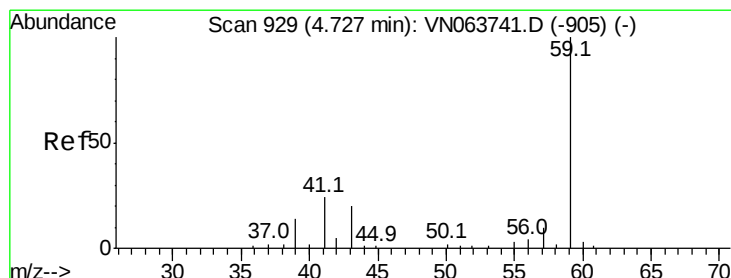
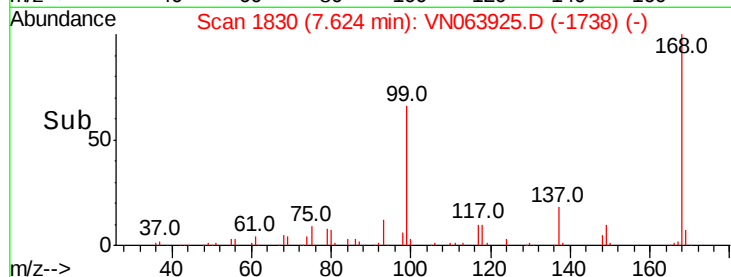
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.270 ug/l

RT: 4.72 min Scan# 927

Delta R.T. -0.01 min

Lab File: VN063925.D

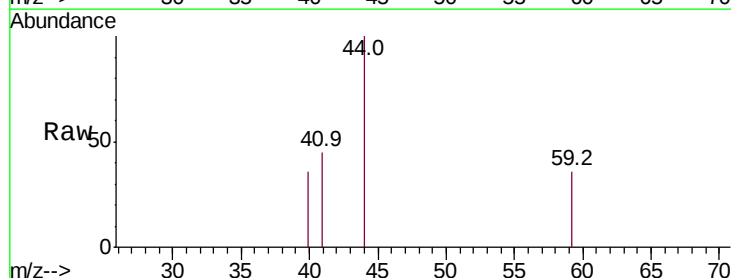
Acq: 7 Oct 2020 5:06

Tgt Ion: 59 Resp: 112

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

250

200

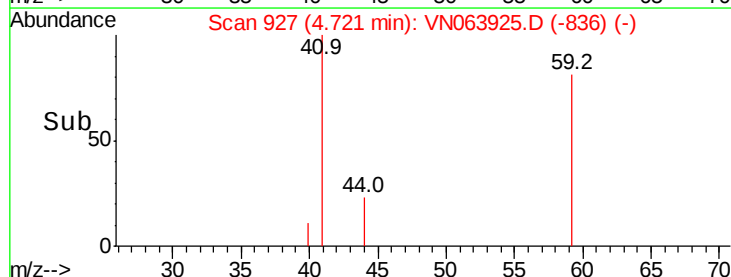
150

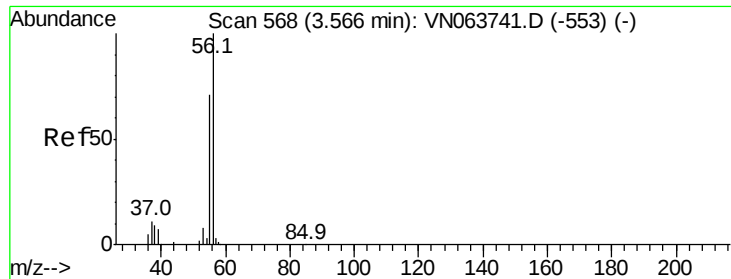
100

50

0

Time--> 4.71 4.72 4.73

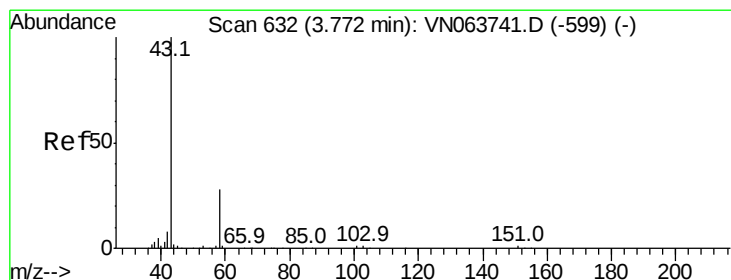
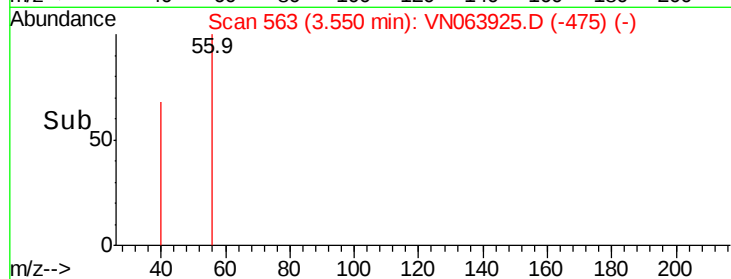
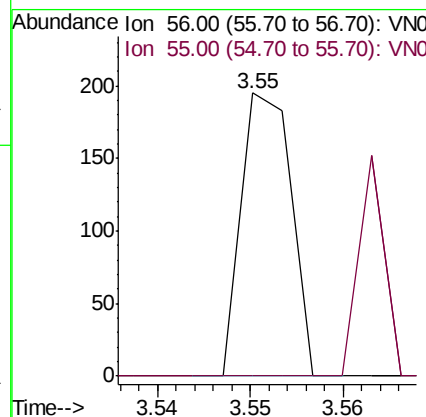
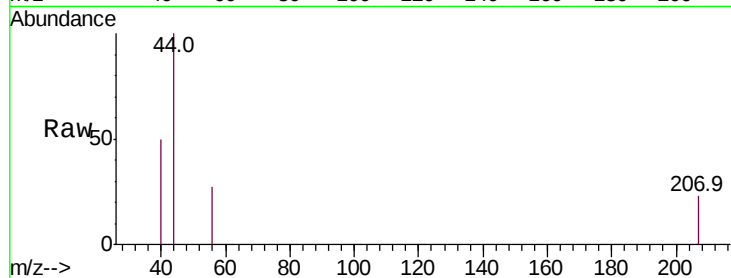




#13
Acrolein
Concen: 0.286 ug/l
RT: 3.55 min Scan# 563
Delta R.T. -0.02 min
Lab File: VN063925.D
Acq: 7 Oct 2020 5:06

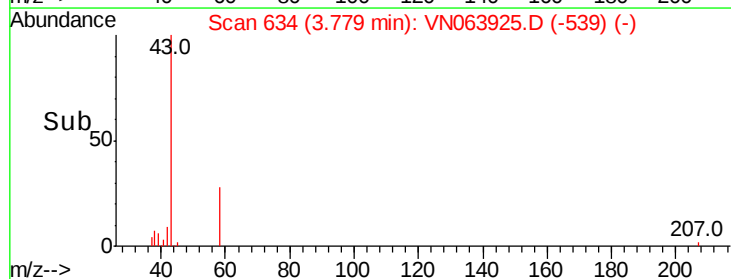
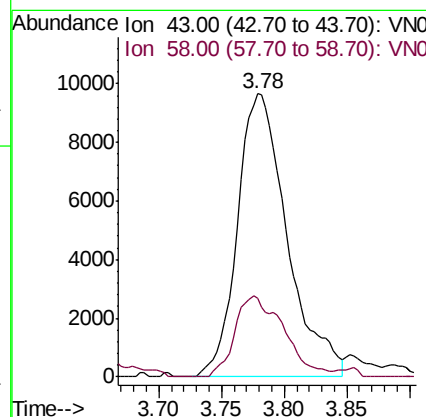
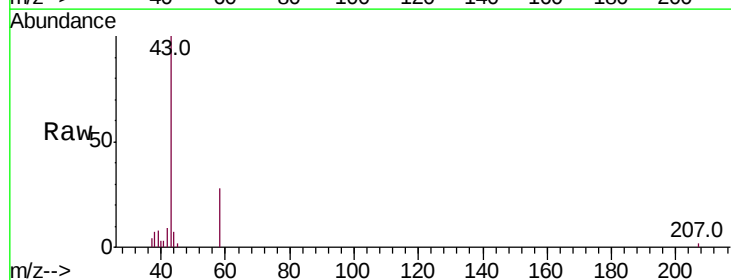
Instrument :
MSVOA_N
ClientSampled :
B-19(4-5)

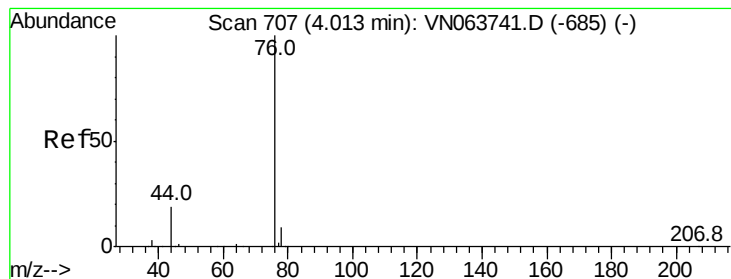
Tot Ion: 56 Resp: 73
Ion Ratio Lower Upper
56 100
55 39.7 56.9 85.3#



#16
Acetone
Concen: 23.024 ug/l
RT: 3.78 min Scan# 634
Delta R.T. 0.01 min
Lab File: VN063925.D
Acq: 7 Oct 2020 5:06

Tgt Ion: 43 Resp: 26656
Ion Ratio Lower Upper
43 100
58 27.6 22.3 33.5





#17

Carbon Disulfide

Concen: 1.138 ug/l

RT: 4.02 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN063925.D

Acq: 7 Oct 2020 5:06

Instrument :

MSVOA_N

ClientSampleId :

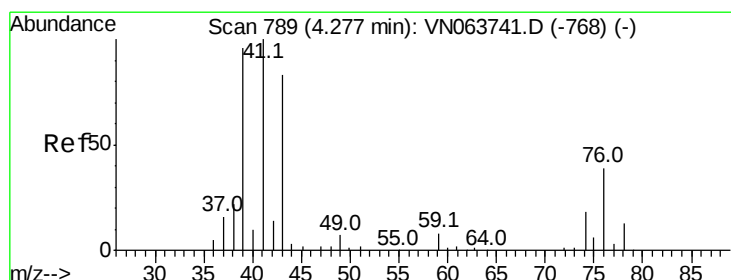
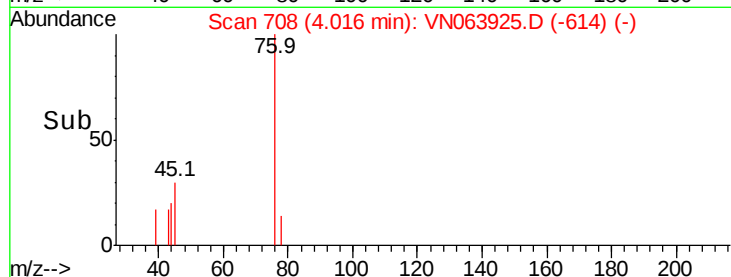
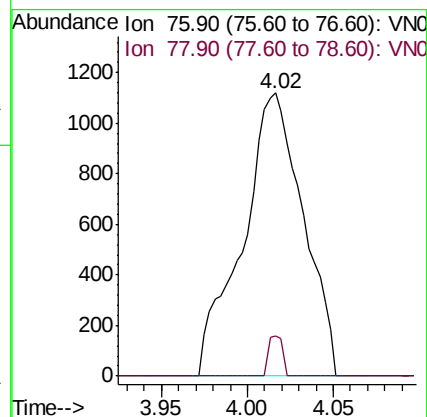
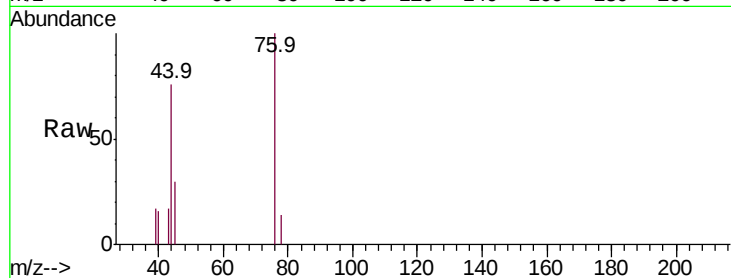
B-19(4-5)

Tot Ion: 76 Resp: 2748

Ion Ratio Lower Upper

76 100

78 14.1 7.0 10.4#



#18

Methyl Acetate

Concen: 0.366 ug/l

RT: 4.27 min Scan# 786

Delta R.T. -0.01 min

Lab File: VN063925.D

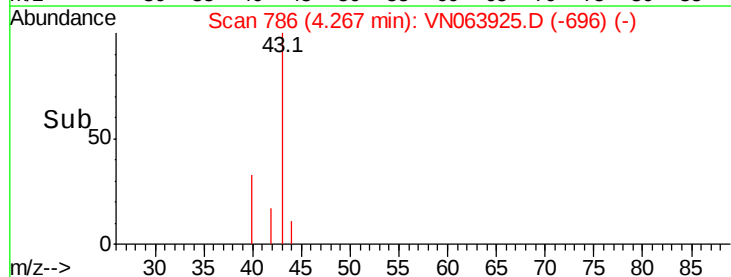
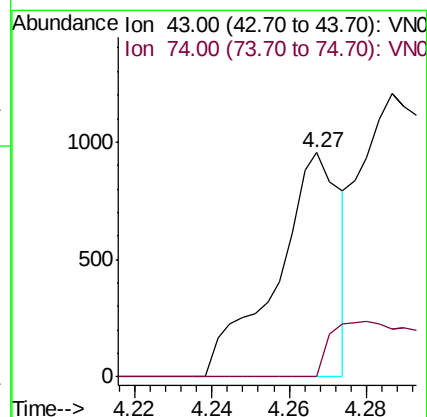
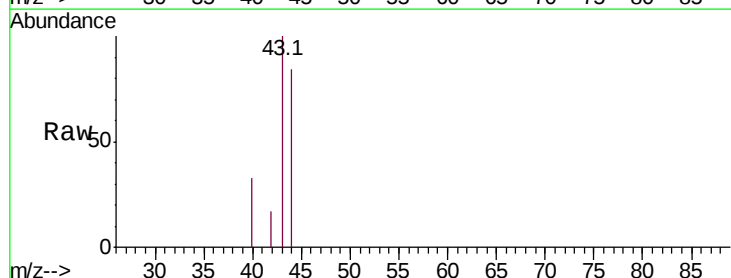
Acq: 7 Oct 2020 5:06

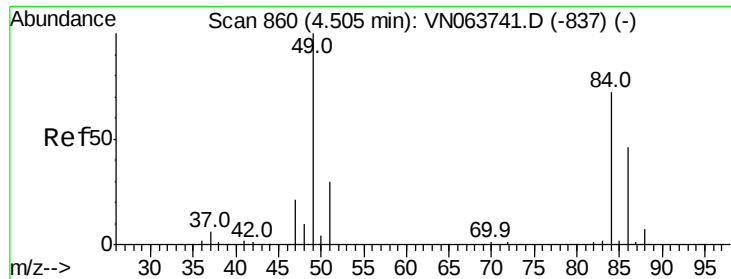
Tgt Ion: 43 Resp: 1101

Ion Ratio Lower Upper

43 100

74 0.0 17.4 26.2#

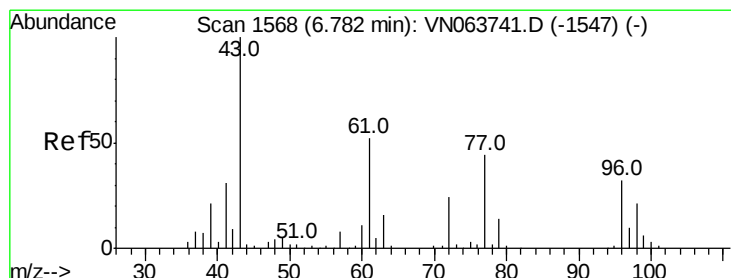
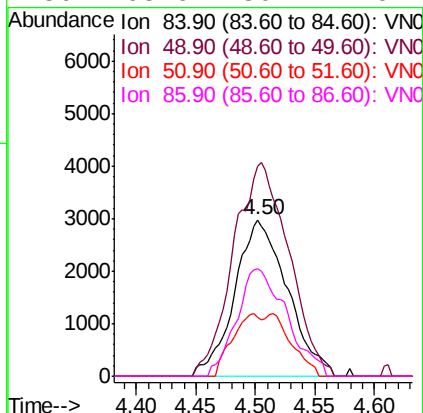
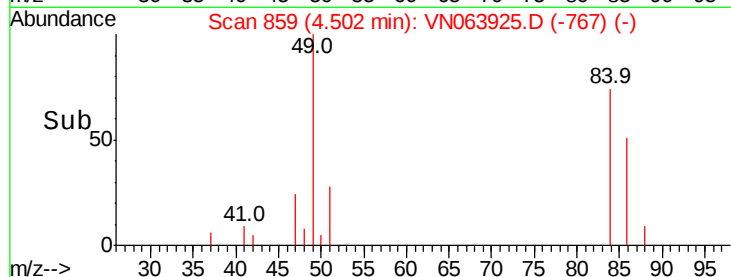
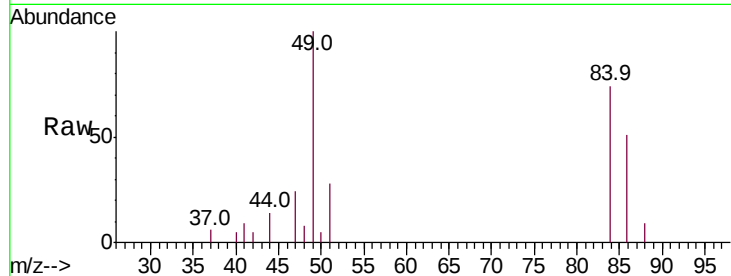




#20
Methvlene Chloride
Concen: 3.529 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN063925.D
Acq: 7 Oct 2020 5:06

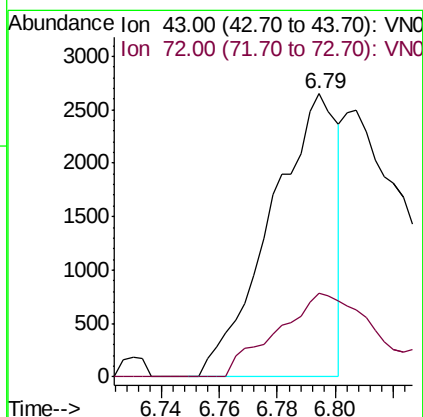
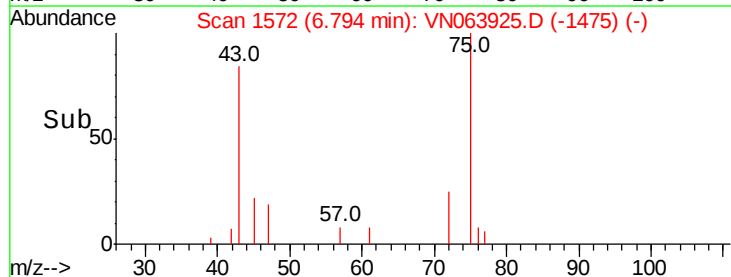
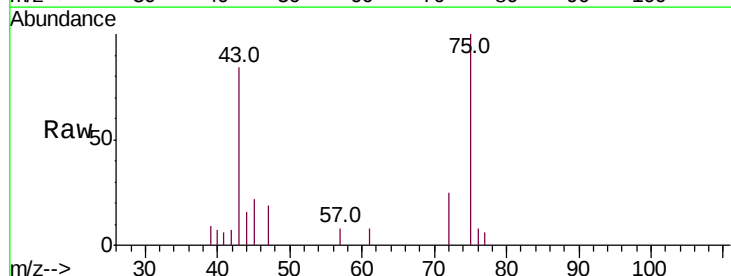
Instrument :
MSVOA_N
ClientSampled :
B-19(4-5)

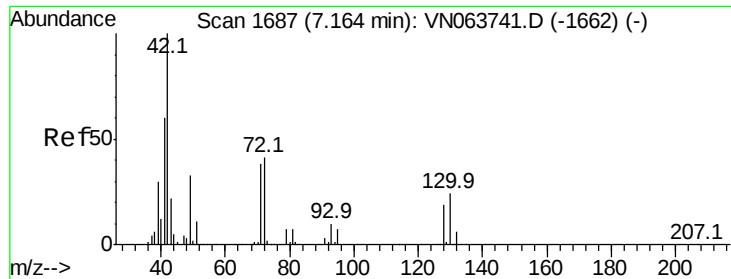
Tot Ion:	84	Resp:	9117
Ion	Ratio	Lower	Upper
84	100		
49	134.7	110.4	165.6
51	37.4	33.3	49.9
86	68.6	50.7	76.1



#25
2-Butanone
Concen: 2.573 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN063925.D
Acq: 7 Oct 2020 5:06

Tgt Ion:	43	Resp:	4223
Ion	Ratio	Lower	Upper
43	100		
72	29.5	19.3	28.9#





#29

Tetrahydrofuran

Concen: 0.630 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN063925.D

Acq: 7 Oct 2020 5:06

Instrument :

MSVOA_N

ClientSampleId :

B-19(4-5)

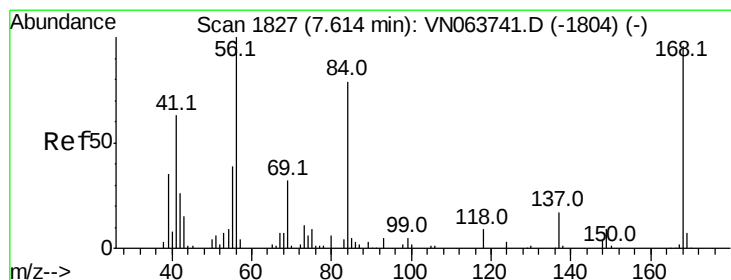
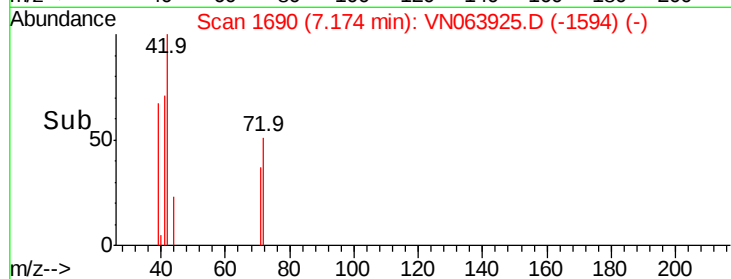
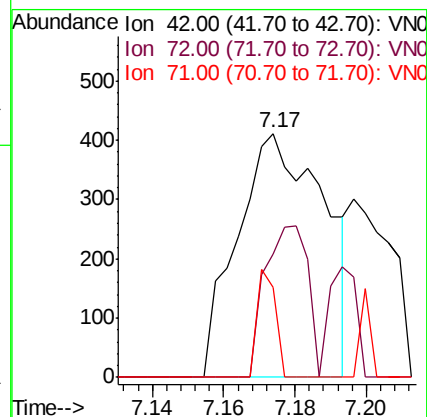
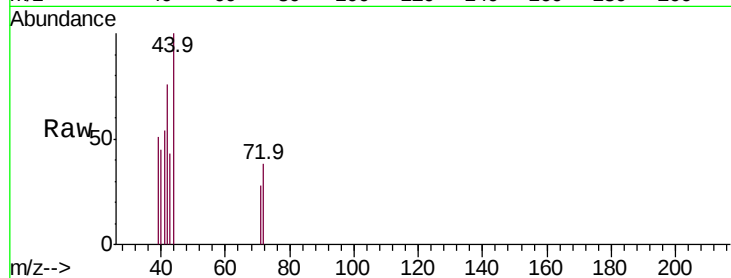
Tot Ion: 42 Resp: 693

Ion Ratio Lower Upper

42 100

72 30.4 32.8 49.2#

71 9.2 30.6 45.8#



#31

Cyclohexane

Concen: 1.456 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN063925.D

Acq: 7 Oct 2020 5:06

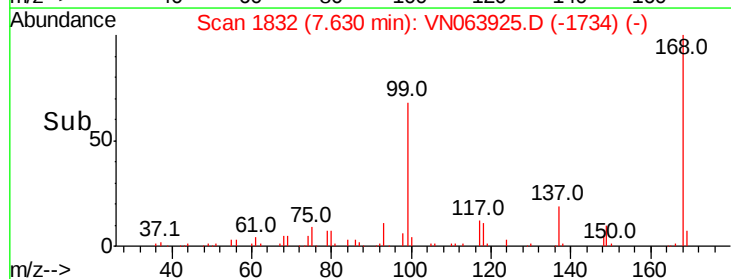
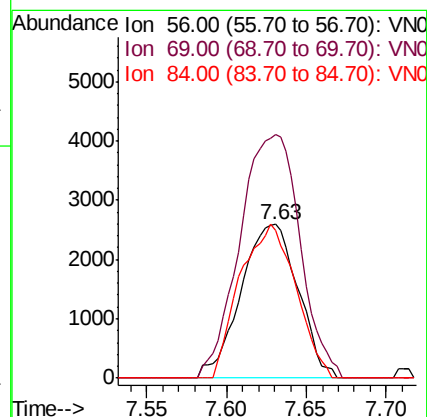
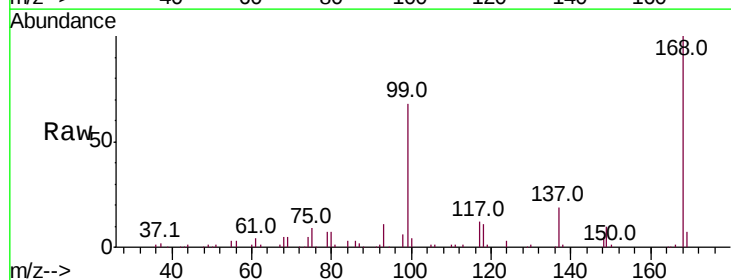
Tgt Ion: 56 Resp: 6356

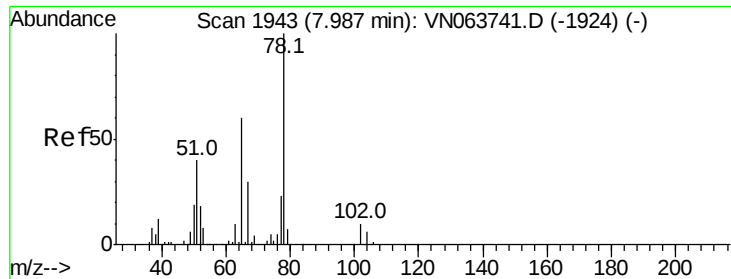
Ion Ratio Lower Upper

56 100

69 158.6 25.4 38.2#

84 96.4 63.3 94.9#





#33

1,2-Dichloroethane-d4

Concen: 52.294 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN063925.D

Acq: 7 Oct 2020 5:06

Instrument :

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ClientSampleId :

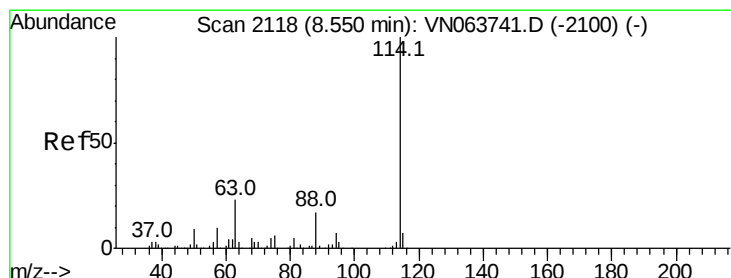
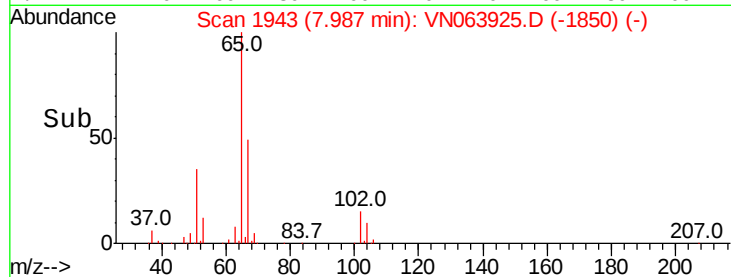
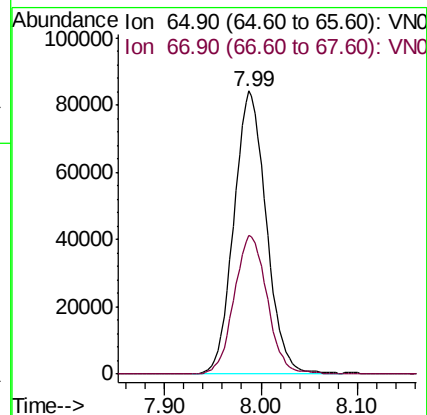
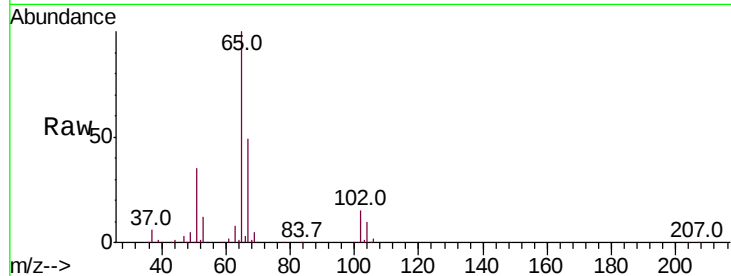
B-19(4-5)

Tot Ion: 65 Resp: 196676

Ion Ratio Lower Upper

65 100

67 50.0 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: VN063925.D

Acq: 7 Oct 2020 5:06

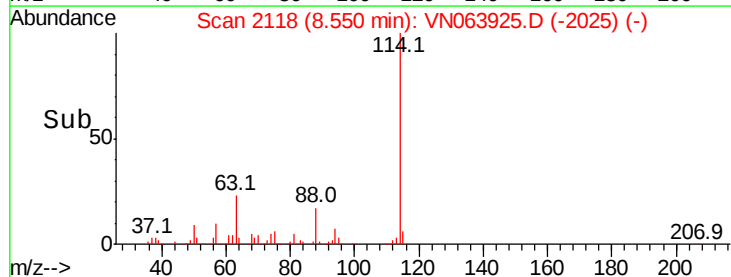
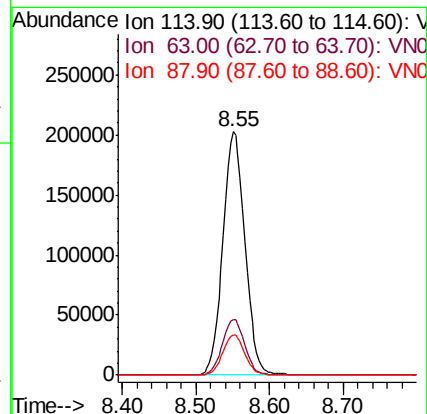
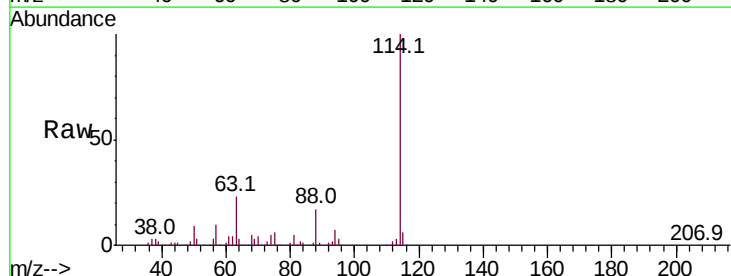
Tgt Ion: 114 Resp: 422684

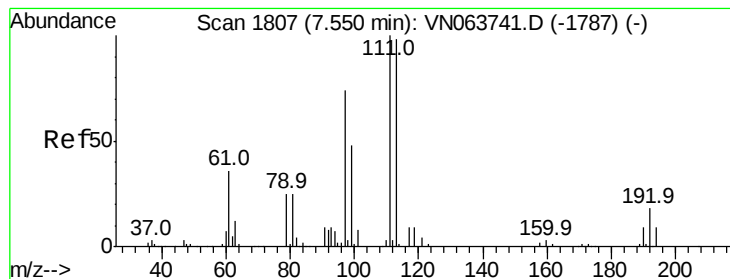
Ion Ratio Lower Upper

114 100

63 22.8 0.0 45.0

88 16.7 0.0 34.0





#35

Dibromofluoromethane

Concen: 49.533 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063925.D

Acq: 7 Oct 2020 5:06

Instrument :

MSVOA_N

ClientSampleId :

B-19(4-5)

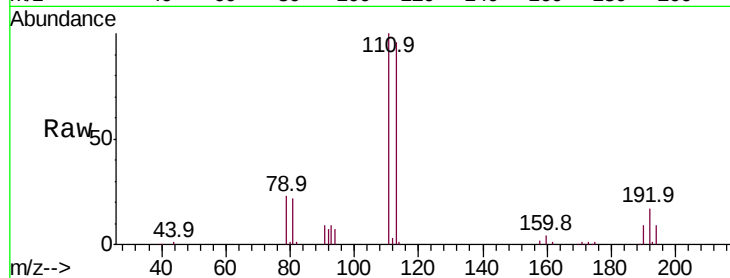
Tot Ion:113 Resp: 145275

Ion Ratio Lower Upper

113 100

111 101.4 81.8 122.8

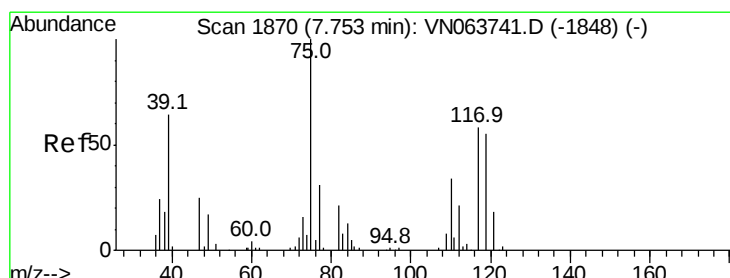
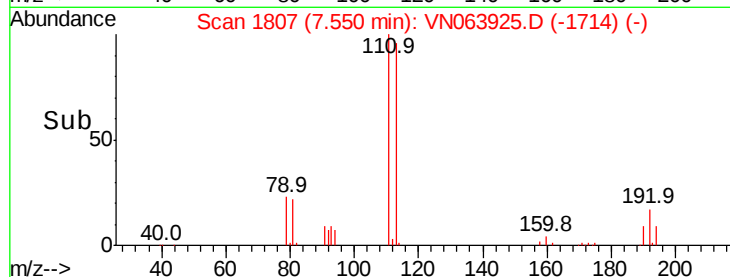
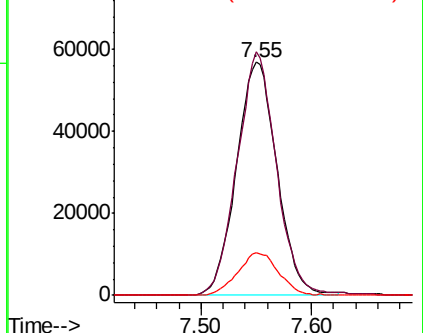
192 18.3 14.2 21.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.972 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063925.D

Acq: 7 Oct 2020 5:06

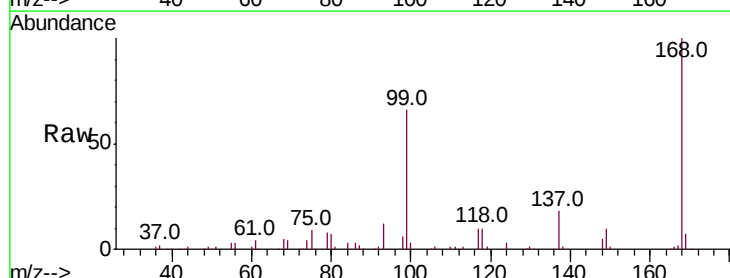
Tgt Ion: 75 Resp: 21292

Ion Ratio Lower Upper

75 100

110 4.0 16.9 50.6#

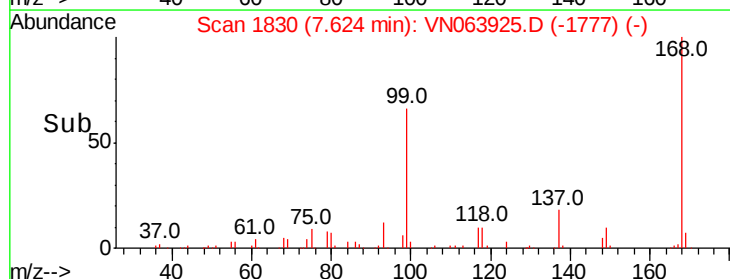
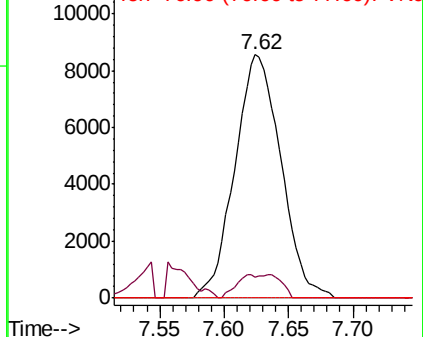
77 0.0 24.5 36.7#

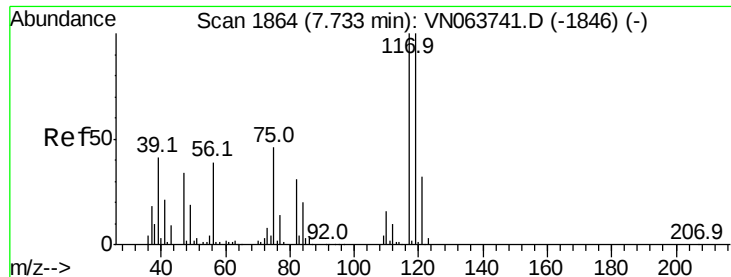


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.166 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.10 min

Lab File: VN063925.D

Acq: 7 Oct 2020 5:06

Instrument :

MSVOA_N

ClientSampled :

B-19(4-5)

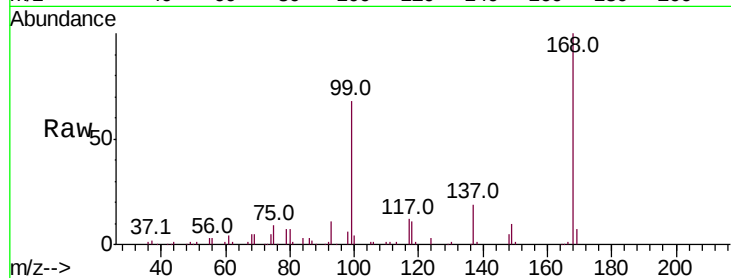
Tot Ion:117 Resp: 24807

Ion Ratio Lower Upper

117 100

119 4.5 80.1 120.1#

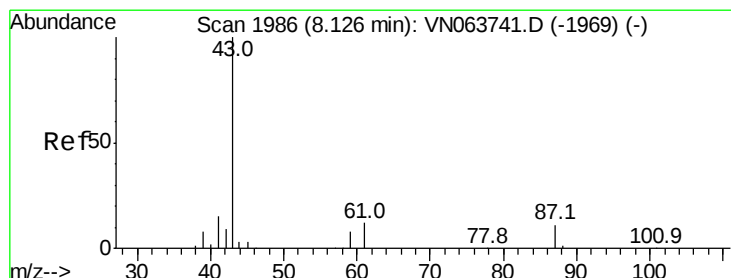
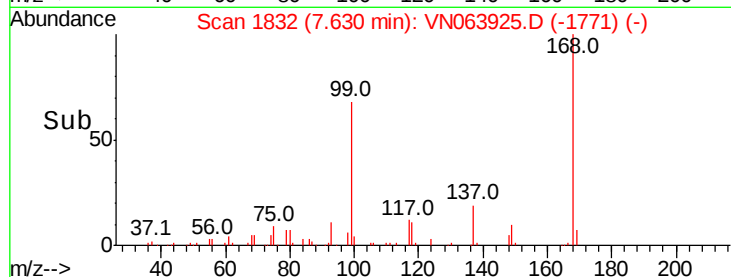
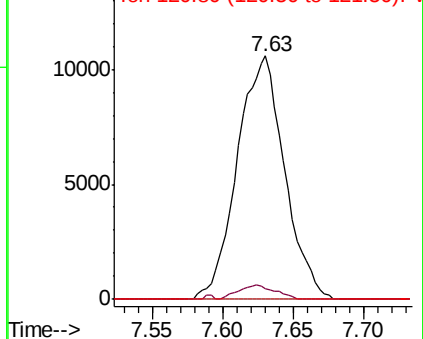
121 0.0 25.7 38.5#



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: 12.463 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063925.D

Acq: 7 Oct 2020 5:06

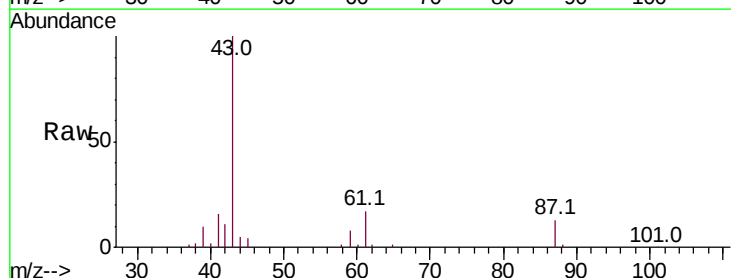
Tgt Ion: 43 Resp: 87457

Ion Ratio Lower Upper

43 100

61 16.7 14.2 21.4

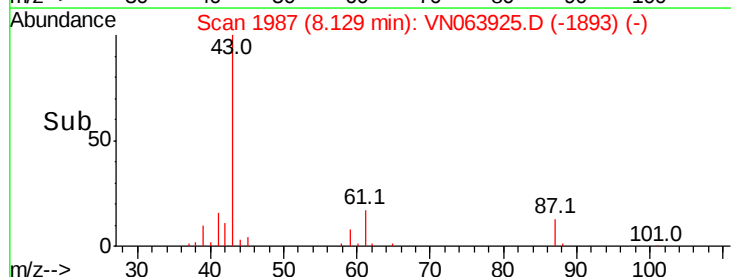
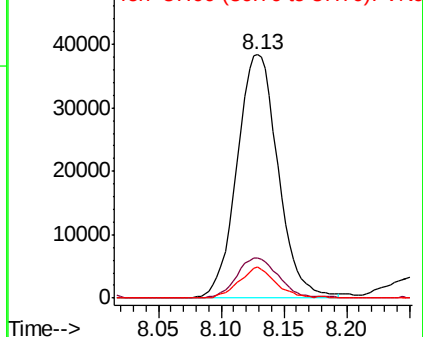
87 11.2 9.0 13.6

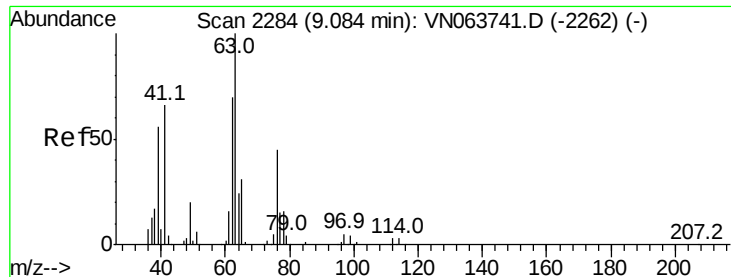


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.533 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN063925.D

Acq: 7 Oct 2020 5:06

Instrument :

MSVOA_N

ClientSampled :

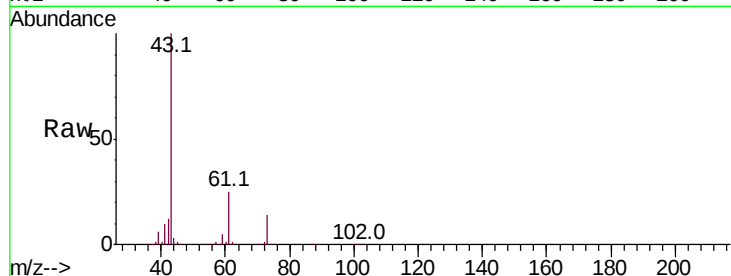
B-19(4-5)

Tot Ion: 63 Resp: 1761

Ion Ratio Lower Upper

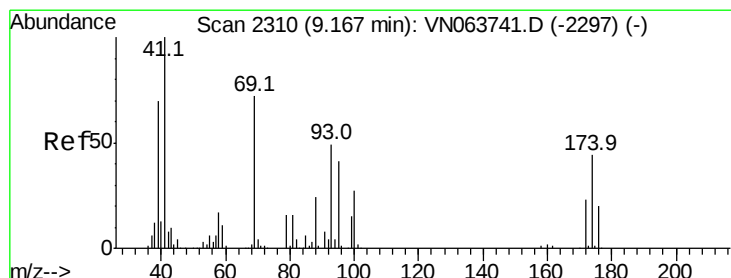
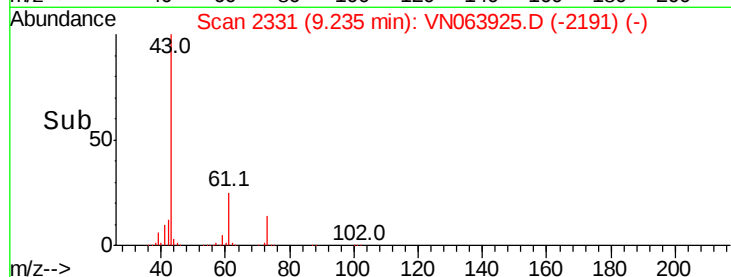
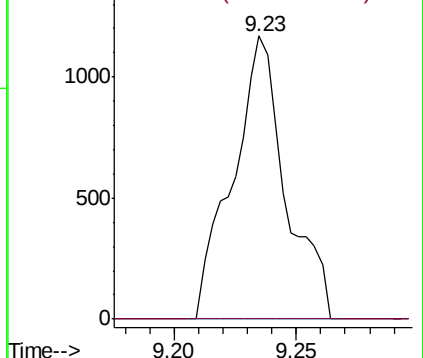
63 100

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: 1.513 ug/l

RT: 9.14 min Scan# 2302

Delta R.T. -0.03 min

Lab File: VN063925.D

Acq: 7 Oct 2020 5:06

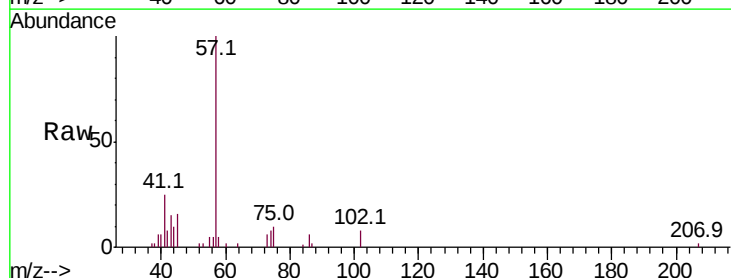
Tgt Ion: 41 Resp: 5245

Ion Ratio Lower Upper

41 100

69 0.0 60.9 91.3#

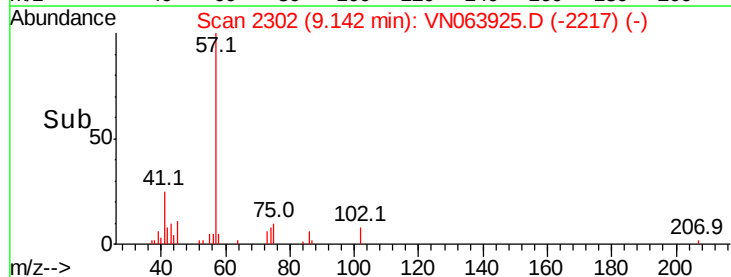
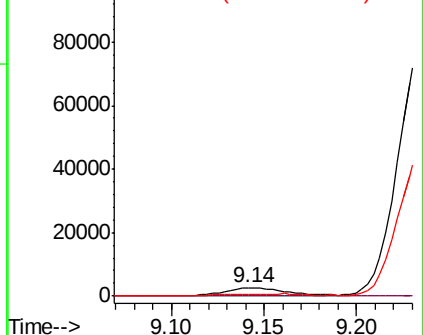
39 0.0 57.5 86.3#

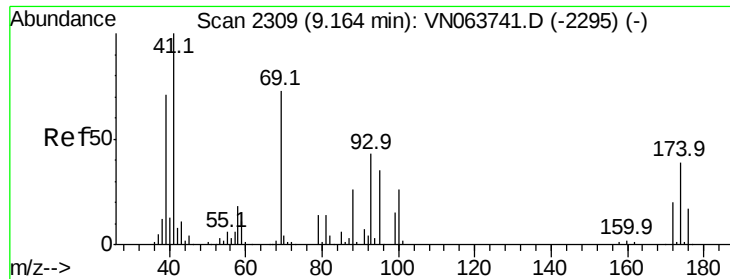


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 2.963 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN063925.D

Acq: 7 Oct 2020 5:06

Instrument :

MSVOA_N

ClientSampled :

B-19(4-5)

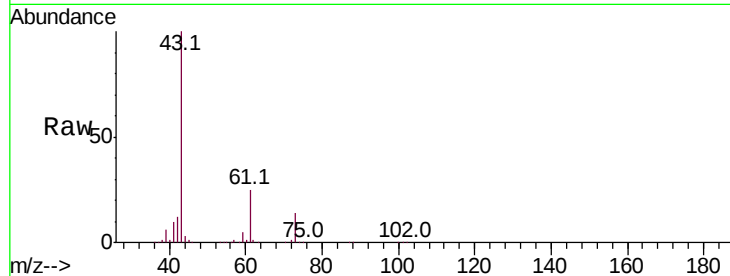
Tot Ion: 88 Resp: 146

Ion Ratio Lower Upper

88 100

43 1026726.0 33.1 49.7#

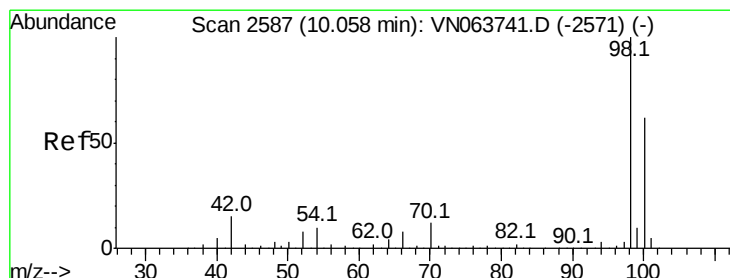
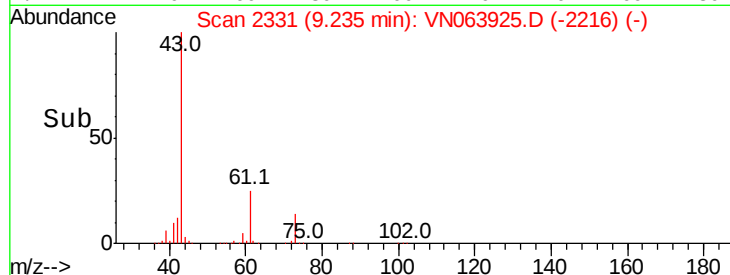
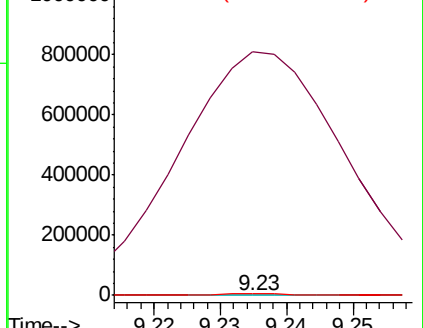
58 5184.9 58.9 88.3#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 49.840 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063925.D

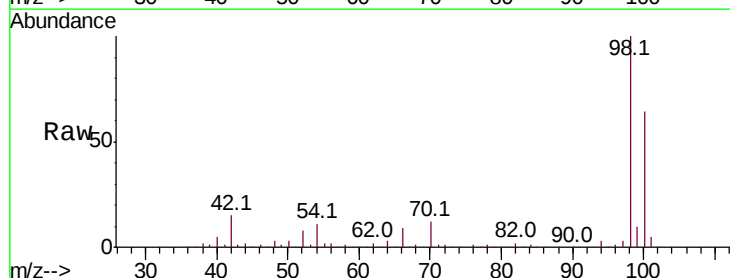
Acq: 7 Oct 2020 5:06

Tgt Ion: 98 Resp: 554136

Ion Ratio Lower Upper

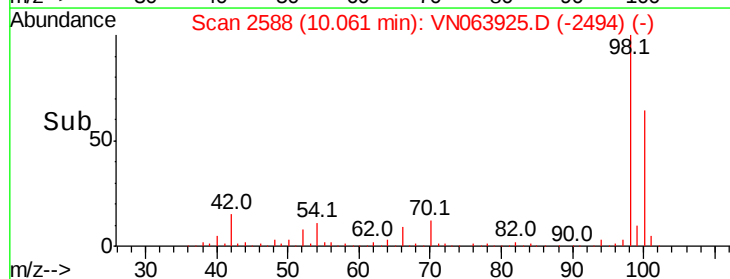
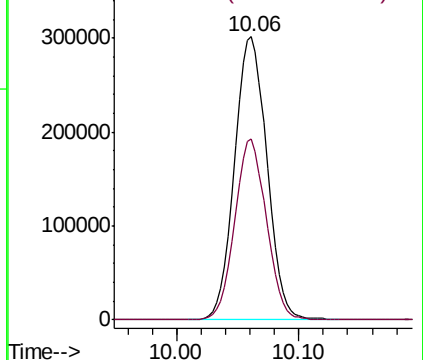
98 100

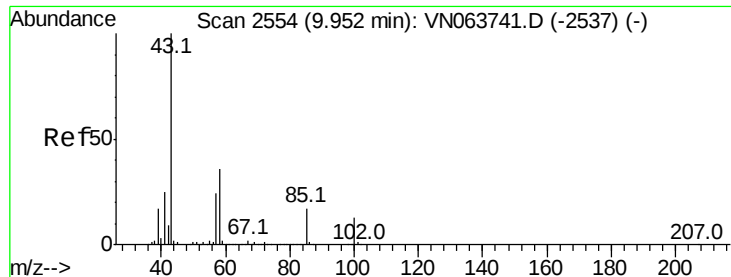
100 62.4 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

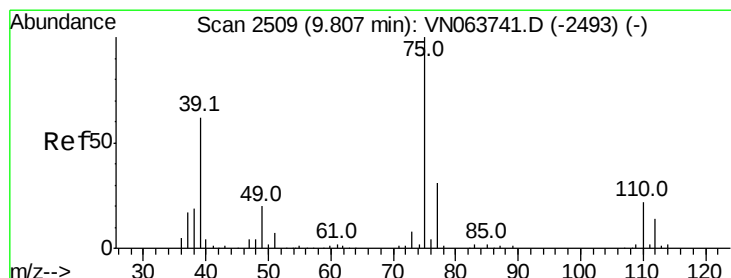
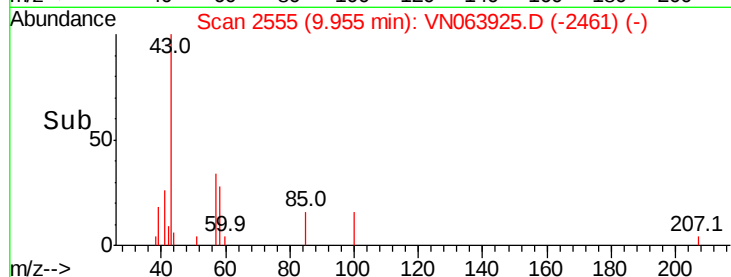
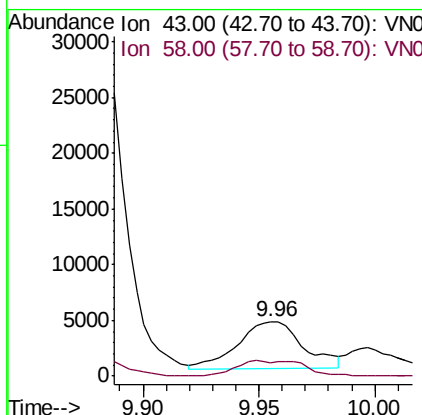
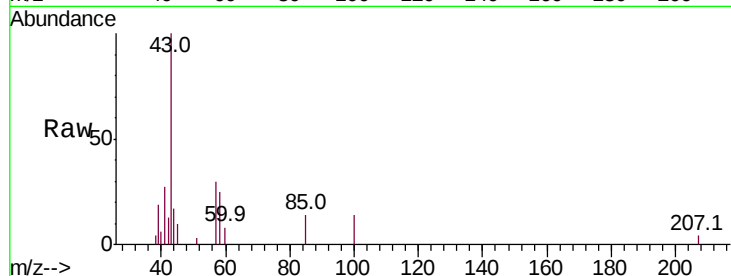




#51
 4-Methyl-2-Pentanone
 Concen: 2.048 ug/l
 RT: 9.96 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN063925.D
 Acq: 7 Oct 2020 5:06

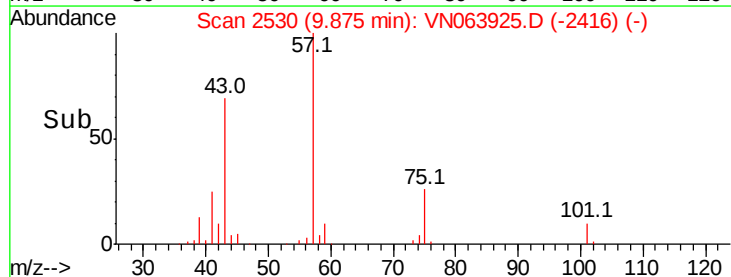
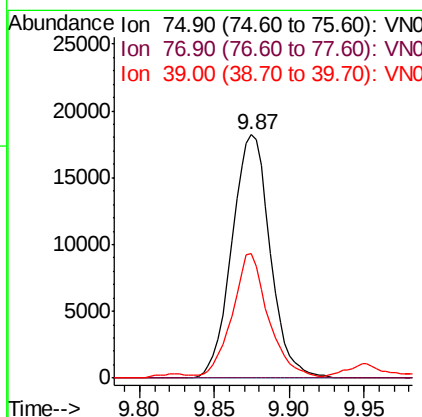
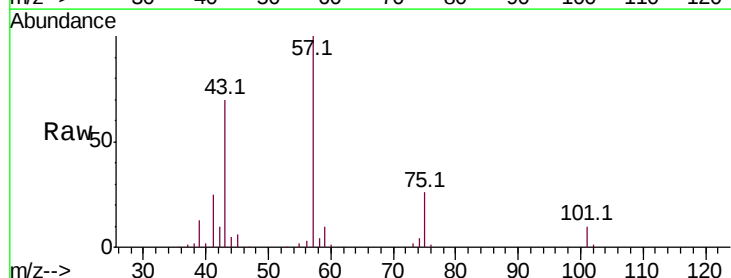
Instrument :
 MSVOA_N
 ClientSampled :
 B-19(4-5)

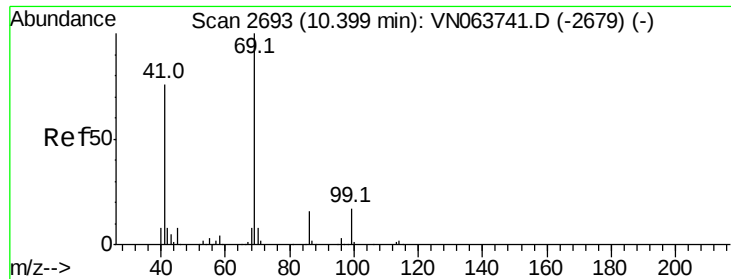
Tot Ion: 43 Resp: 8436
 Ion Ratio Lower Upper
 43 100
 58 17.7 28.4 42.6#



#54
 cis-1,3-Dichloropropene
 Concen: 6.158 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN063925.D
 Acq: 7 Oct 2020 5:06

Tgt Ion: 75 Resp: 32423
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 36.8#
 39 50.2 49.7 74.5





#56

Ethyl methacrylate

Concen: 0.514 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063925.D

Acq: 7 Oct 2020 5:06

Instrument :

MSVOA_N

ClientSampleId :

B-19(4-5)

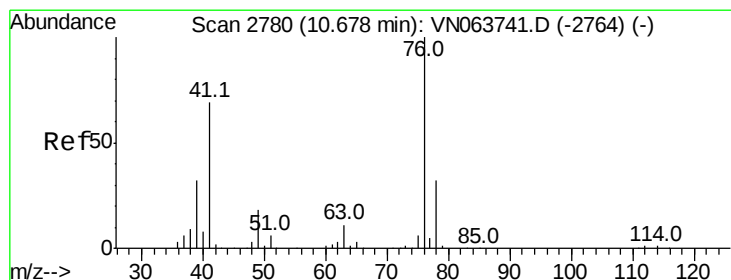
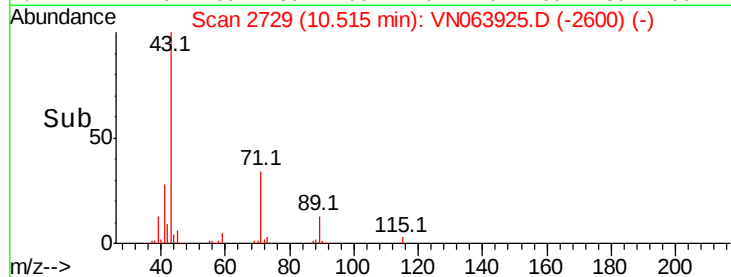
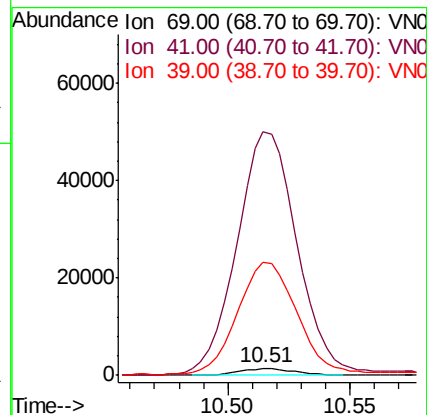
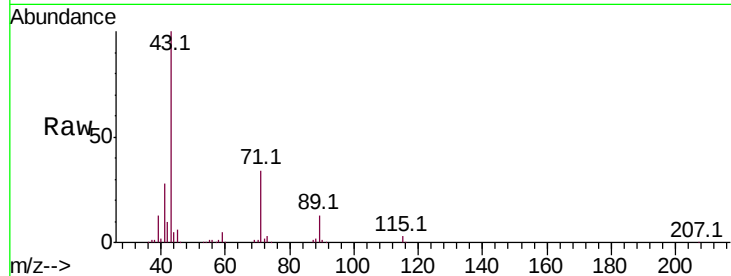
Tot Ion: 69 Resp: 2212

Ion Ratio Lower Upper

69 100

41 3932.5 61.1 91.7#

39 1757.7 42.2 63.4#



#57

1,3-Dichloropropane

Concen: 1.029 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063925.D

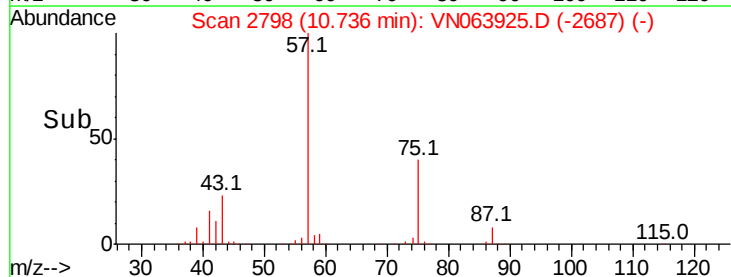
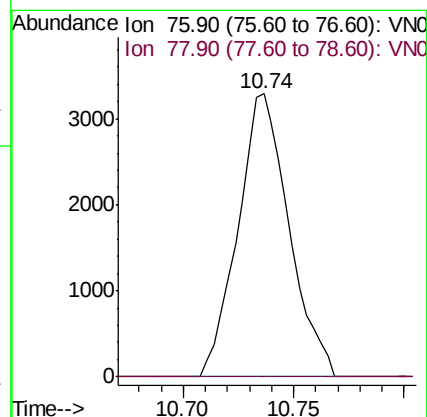
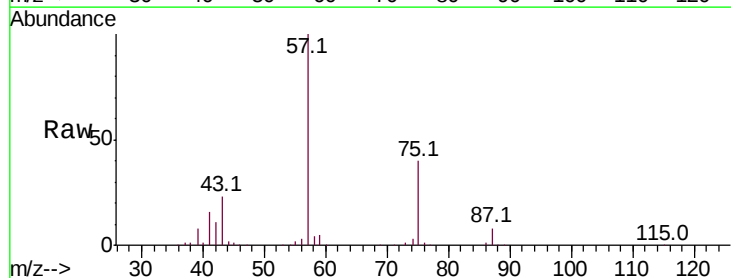
Acq: 7 Oct 2020 5:06

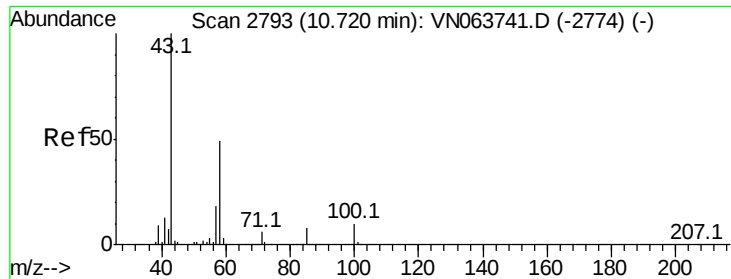
Tgt Ion: 76 Resp: 5280

Ion Ratio Lower Upper

76 100

78 0.0 25.2 37.8#





#59

2-Hexanone

Concen: 29.529 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063925.D

Acq: 7 Oct 2020 5:06

Instrument :

MSVOA_N

ClientSampleId :

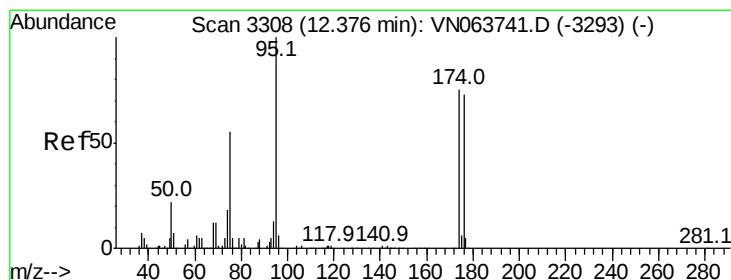
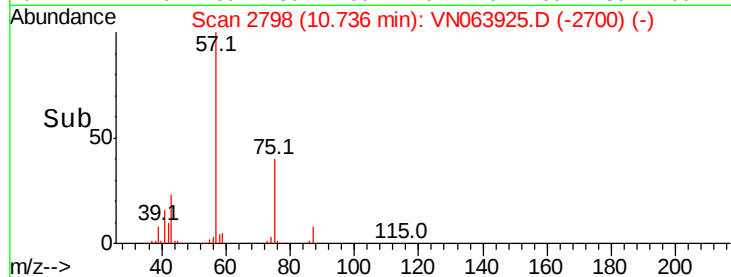
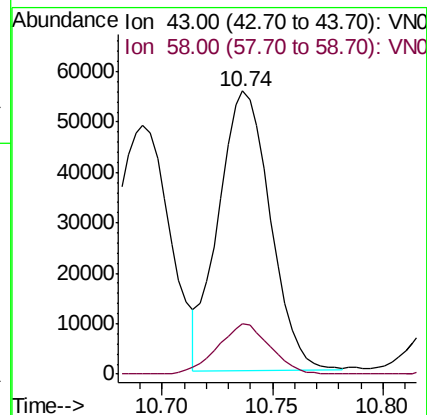
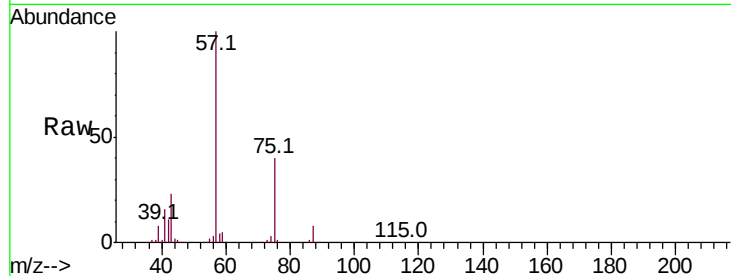
B-19(4-5)

Tot Ion: 43 Resp: 90335

Ion Ratio Lower Upper

43 100

58 18.1 24.6 73.8#



#62

4-Bromofluorobenzene

Concen: 50.134 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063925.D

Acq: 7 Oct 2020 5:06

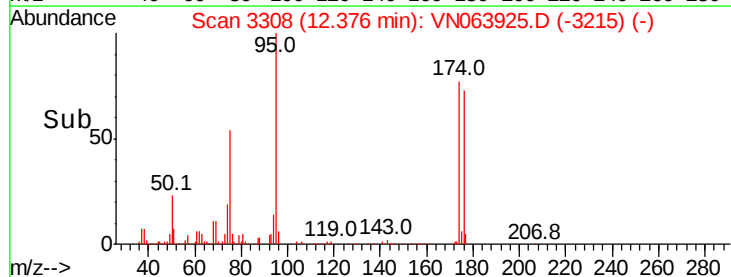
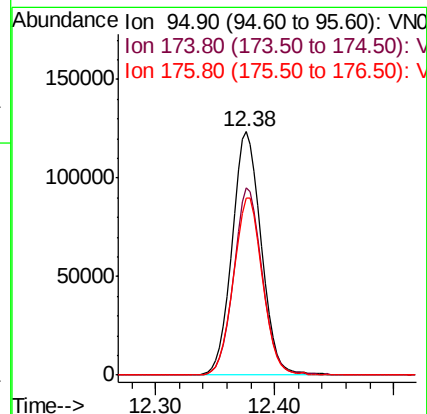
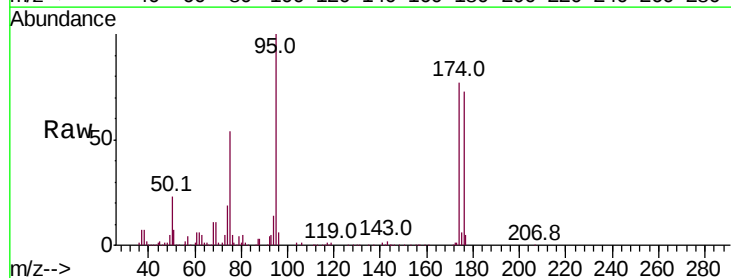
Tgt Ion: 95 Resp: 209533

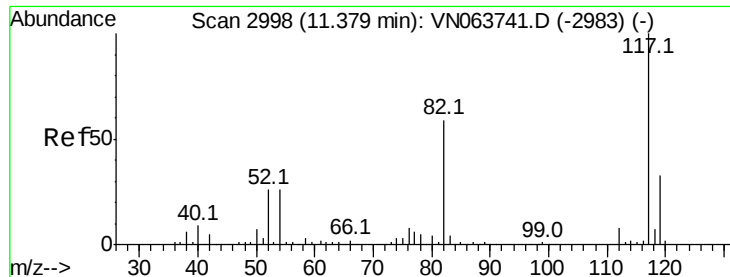
Ion Ratio Lower Upper

95 100

174 75.4 0.0 150.6

176 73.0 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: VN063925.D

Acq: 7 Oct 2020 5:06

Instrument :

MSVOA_N

ClientSampleId :

B-19(4-5)

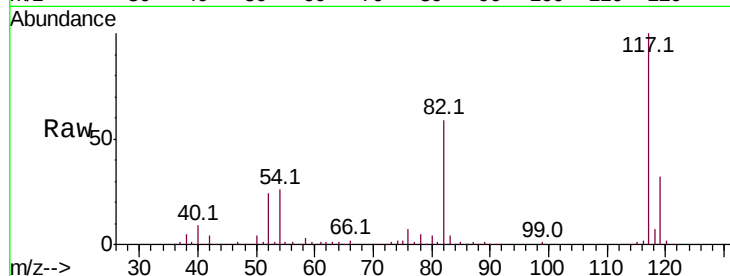
Tot Ion:117 Resp: 442315

Ion Ratio Lower Upper

117 100

82 58.8 47.4 71.2

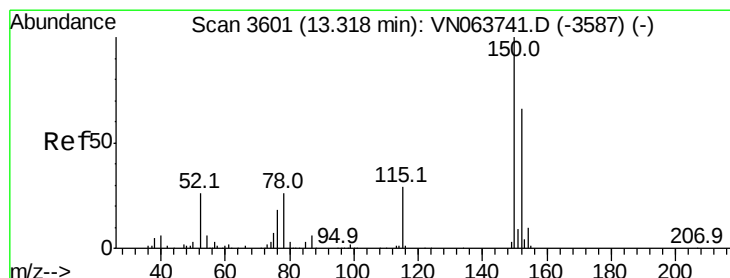
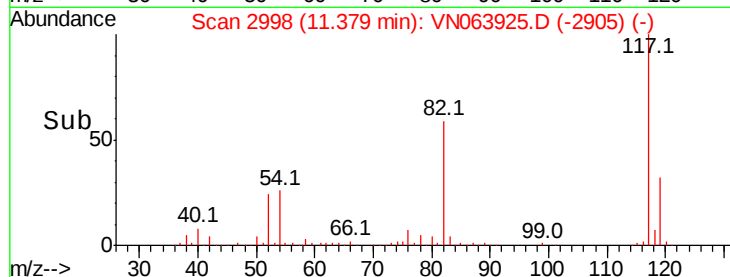
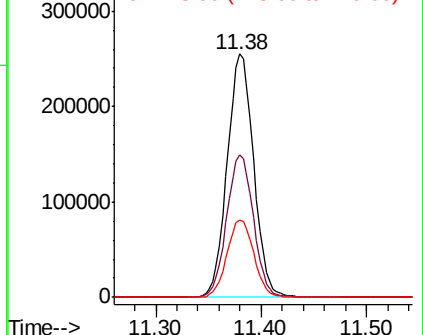
119 31.9 26.4 39.6



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: VN063925.D

Acq: 7 Oct 2020 5:06

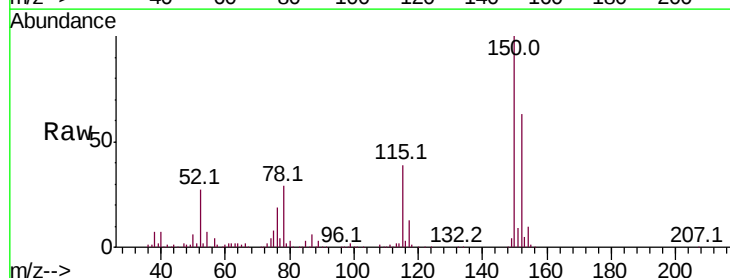
Tgt Ion:152 Resp: 173145

Ion Ratio Lower Upper

152 100

115 63.4 31.3 93.8

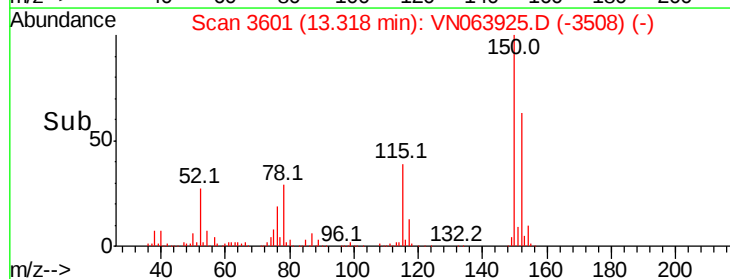
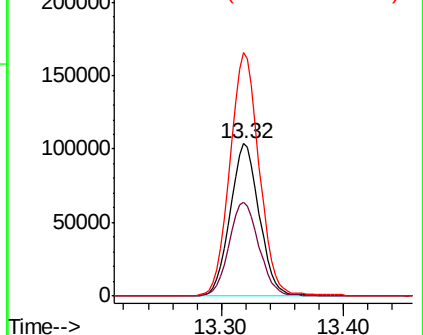
150 160.8 0.0 341.8

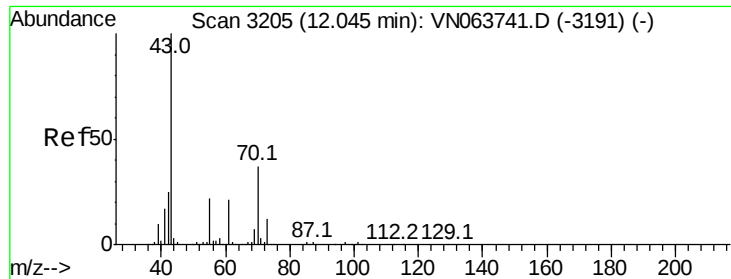


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.768 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN063925.D

Acq: 7 Oct 2020 5:06

Instrument :

MSVOA_N

ClientSampleId :

B-19(4-5)

Tot Ion: 43 Resp: 3388

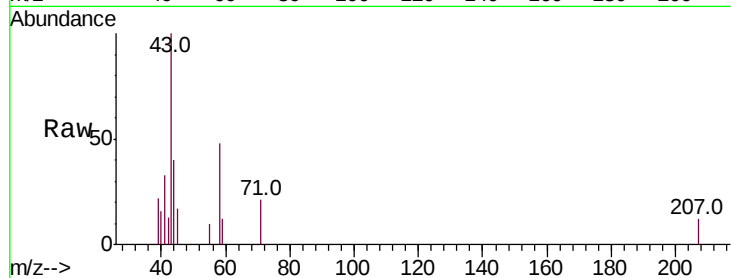
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 1.8 17.9 26.9#

61 0.0 17.0 25.4#

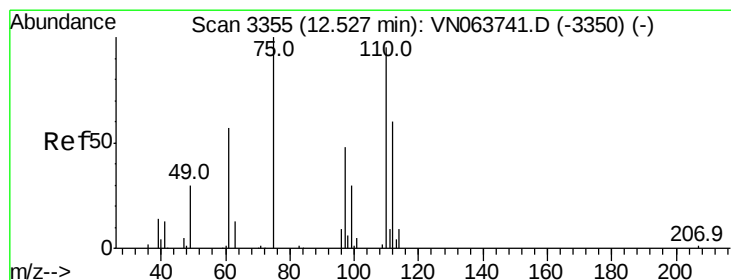
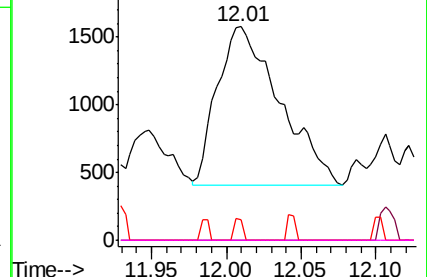
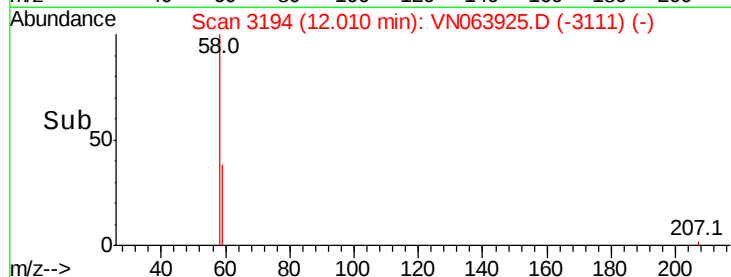


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 30.487 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063925.D

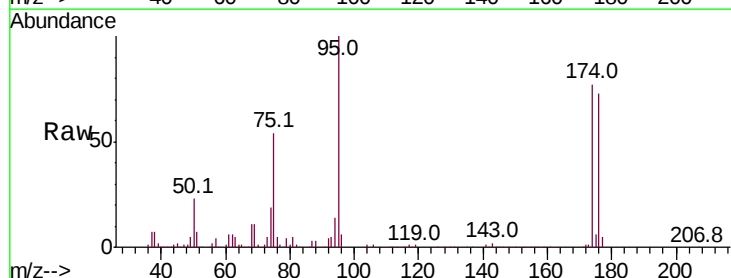
Acq: 7 Oct 2020 5:06

Tgt Ion: 75 Resp: 116362

Ion Ratio Lower Upper

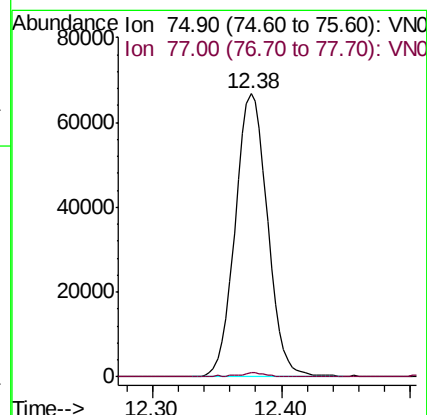
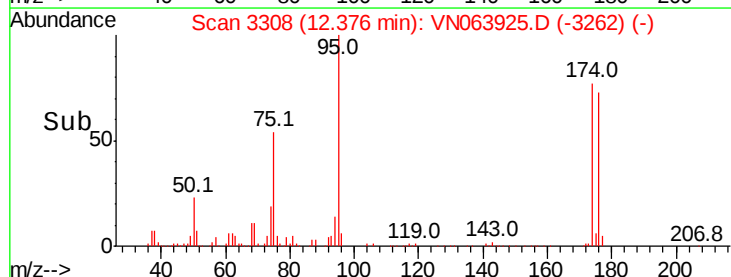
75 100

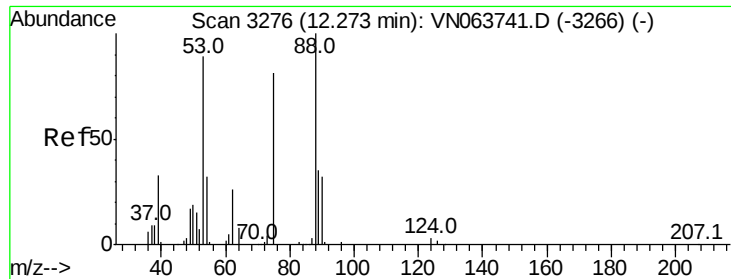
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 87.807 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063925.D

Acq: 7 Oct 2020 5:06

Instrument :

MSVOA_N

ClientSampleId :

B-19(4-5)

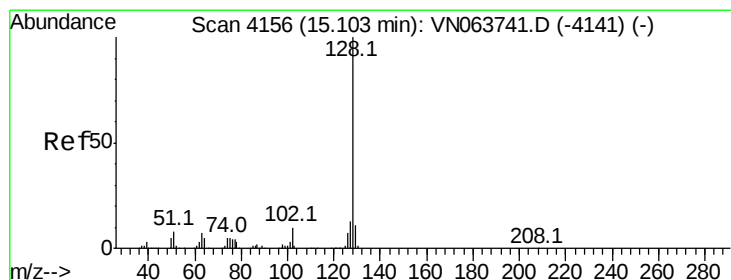
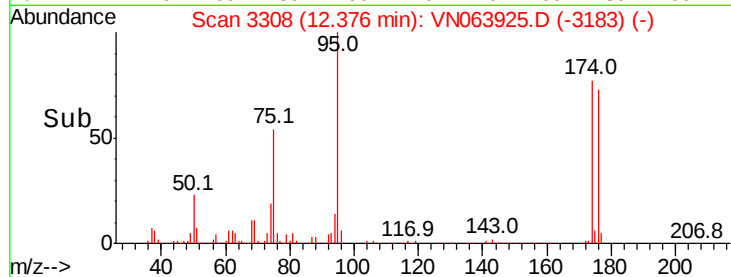
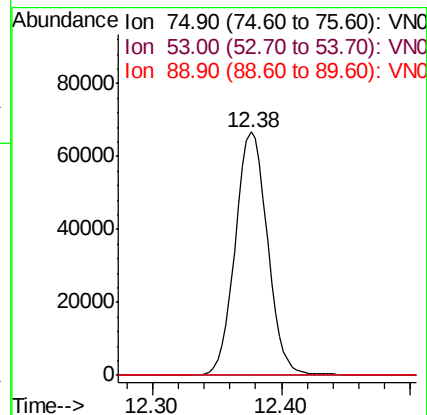
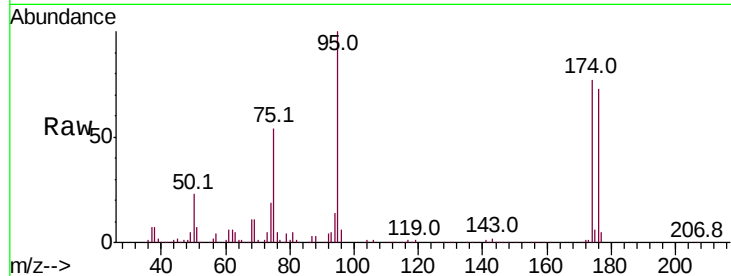
Tot Ion: 75 Resp: 116362

Ion Ratio Lower Upper

75 100

53 0.1 88.2 132.2#

89 0.0 36.0 54.0#



#95

Naphthalene

Concen: 1.997 ug/l

RT: 15.12 min Scan# 4160

Delta R.T. 0.01 min

Lab File: VN063925.D

Acq: 7 Oct 2020 5:06

Tgt Ion: 128 Resp: 704

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.7 13.1#

