

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092220\
 Data File : VN063573.D
 Acq On : 23 Sep 2020 8:28
 Operator : JC/MD
 Sample : L4101-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 0-6FT

Quant Time: Sep 23 09:27:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	201310	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	388058	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	394445	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	159161	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	173827	50.73	ug/l	0.00
Spiked Amount						
						Recovery = 101.46%
35) Dibromofluoromethane	7.55	113	125260	46.63	ug/l	0.00
Spiked Amount						
						Recovery = 93.26%
50) Toluene-d8	10.06	98	500181	49.52	ug/l	0.00
Spiked Amount						
						Recovery = 99.04%
62) 4-Bromofluorobenzene	12.38	95	197844	53.43	ug/l	0.00
Spiked Amount						
						Recovery = 106.86%

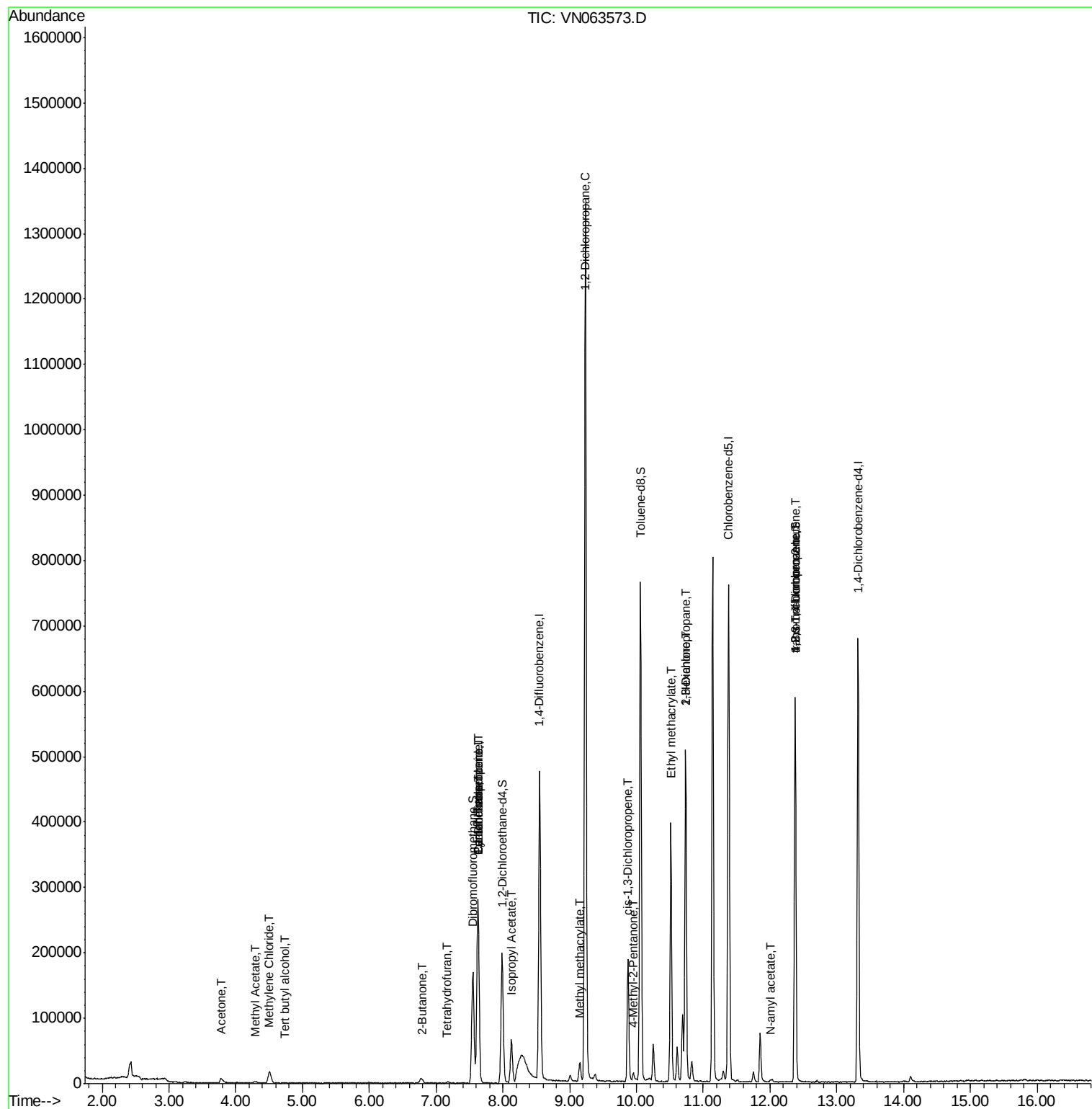
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	131	0.276	ug/l #	72
16) Acetone	3.78	43	13079	11.876	ug/l	95
18) Methyl Acetate	4.30	43	4622	1.653	ug/l #	54
20) Methylene Chloride	4.50	84	13087	4.690	ug/l	85
25) 2-Butanone	6.80	43	2906	1.716	ug/l #	87
29) Tetrahydrofuran	7.17	42	624	0.539	ug/l #	56
31) Cyclohexane	7.63	56	5538	1.170	ug/l #	38
36) 1,1-Dichloropropene	7.62	75	19777	4.784	ug/l #	49
38) Carbon Tetrachloride	7.62	117	22614	5.358	ug/l #	16
43) Isopropyl Acetate	8.13	43	79660	10.980	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1141	0.355	ug/l #	43
48) Methyl methacrylate	9.15	41	4268	1.197	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	8046	1.981	ug/l	91
54) cis-1,3-Dichloropropene	9.87	75	30064	5.817	ug/l #	67
56) Ethyl methacrylate	10.52	69	1729	0.393	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4994	0.983	ug/l #	42
59) 2-Hexanone	10.74	43	78770	26.768	ug/l #	54
74) N-amyl acetate	12.01	43	3381	0.560	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	110056	27.937	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	110056	76.592	ug/l #	7

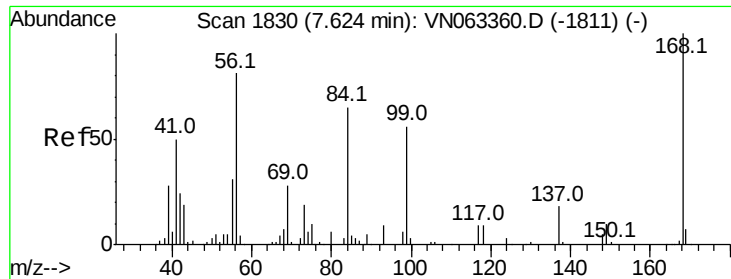
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Sep 16 13:05:20 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: VN063573.D

Acq: 23 Sep 2020 8:28

Instrument :

MSVOA_N

ClientSampleId :

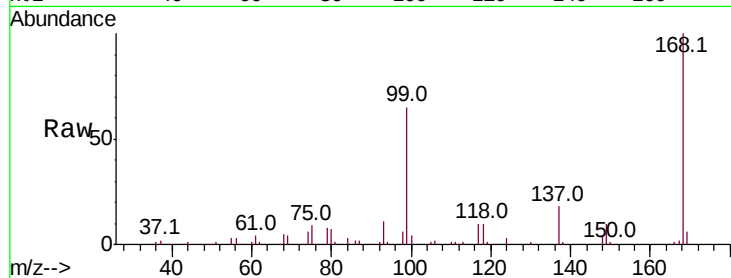
0-6FT

Tot Ion:168 Resp: 201310

Ion Ratio Lower Upper

168 100

99 65.4 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

80000

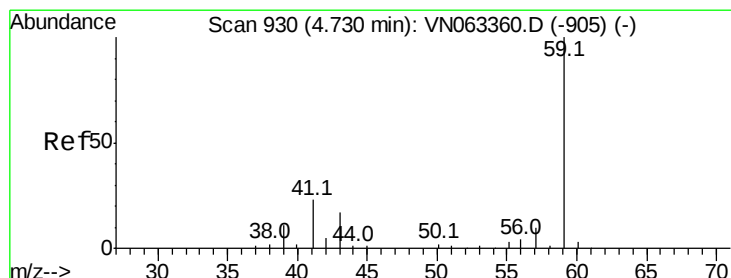
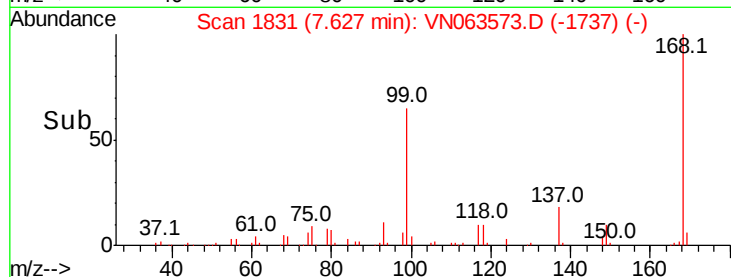
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.276 ug/l

RT: 4.73 min Scan# 931

Delta R.T. 0.00 min

Lab File: VN063573.D

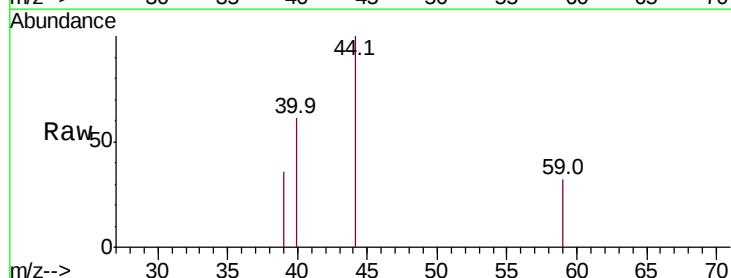
Acq: 23 Sep 2020 8:28

Tgt Ion: 59 Resp: 131

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.73

200

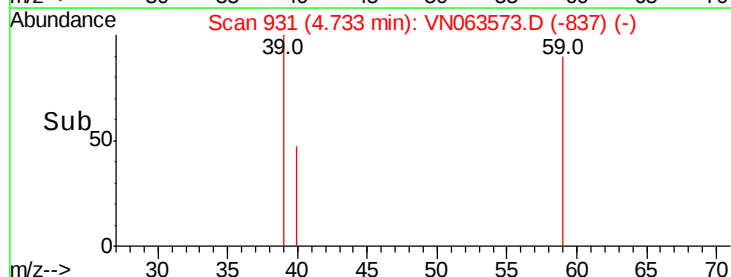
150

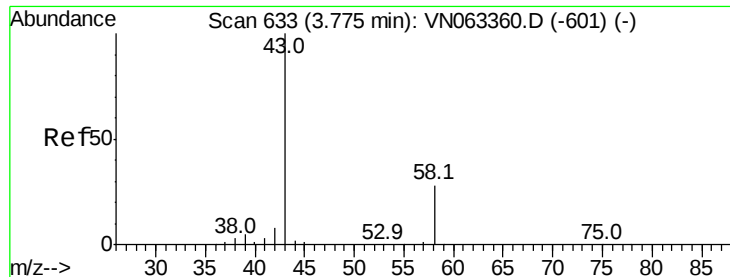
100

50

0

Time--> 4.72 4.73 4.74 4.75





#16

Acetone

Concen: 11.876 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063573.D

Acq: 23 Sep 2020 8:28

Instrument :

MSVOA_N

ClientSampled :

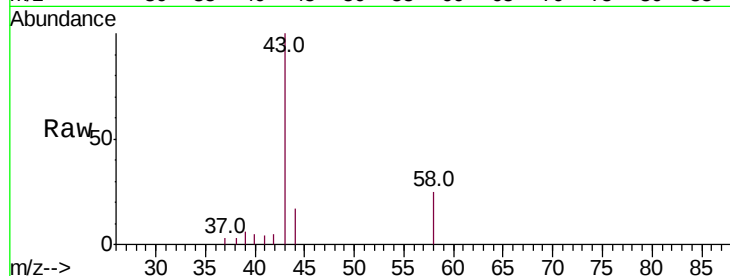
0-6FT

Tot Ion: 43 Resp: 13079

Ion Ratio Lower Upper

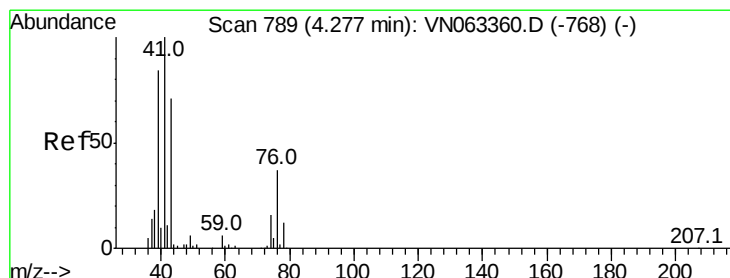
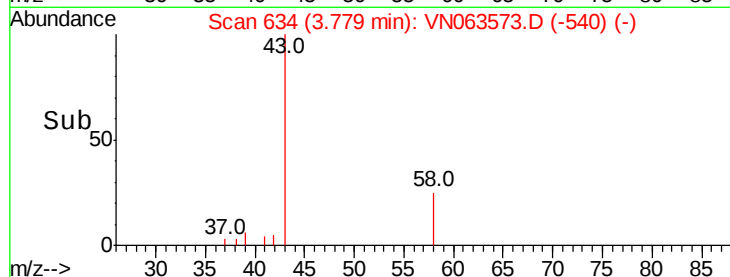
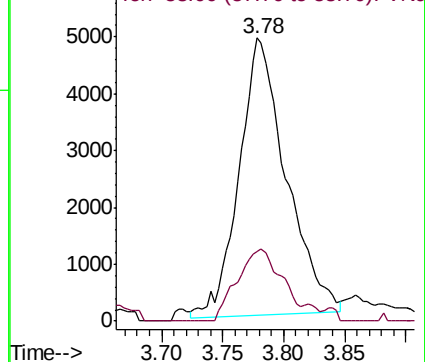
43 100

58 25.5 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.653 ug/l

RT: 4.30 min Scan# 795

Delta R.T. 0.02 min

Lab File: VN063573.D

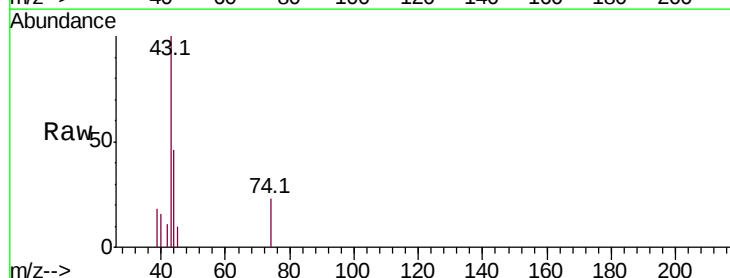
Acq: 23 Sep 2020 8:28

Tgt Ion: 43 Resp: 4622

Ion Ratio Lower Upper

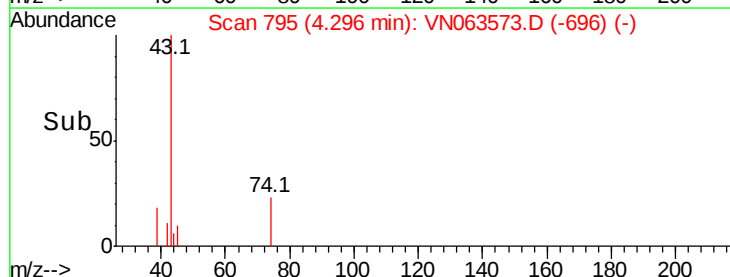
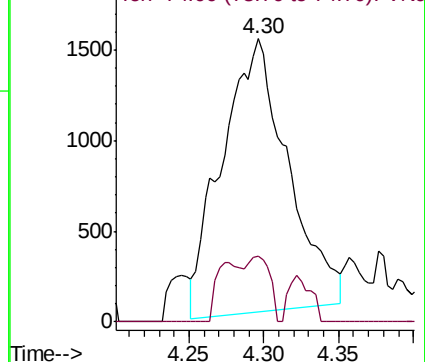
43 100

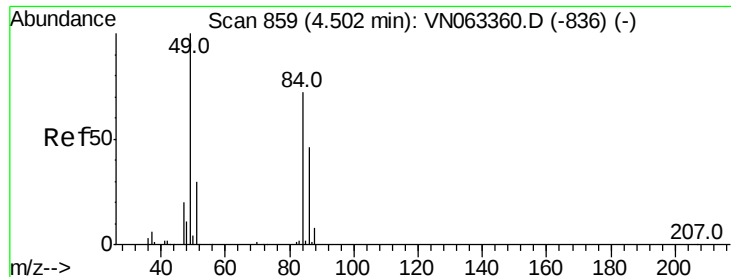
74 0.0 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

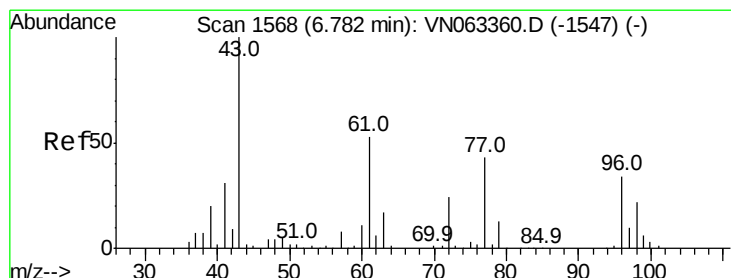
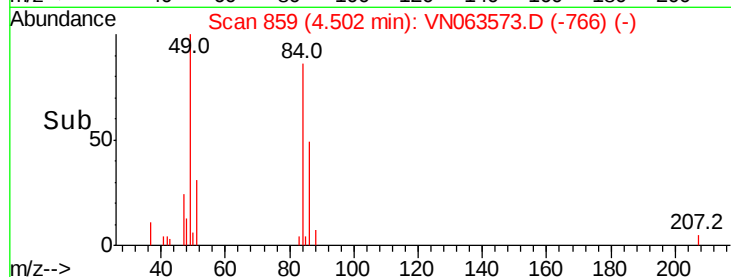
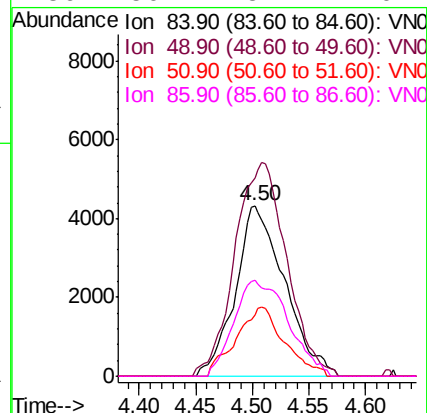
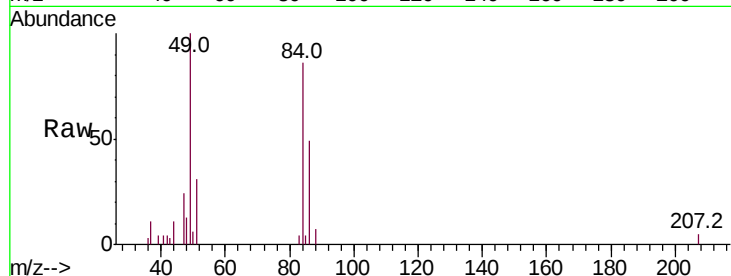




#20
Methvlene Chloride
Concen: 4.690 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN063573.D
Acq: 23 Sep 2020 8:28

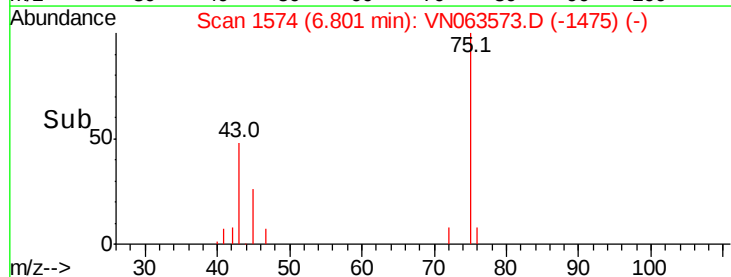
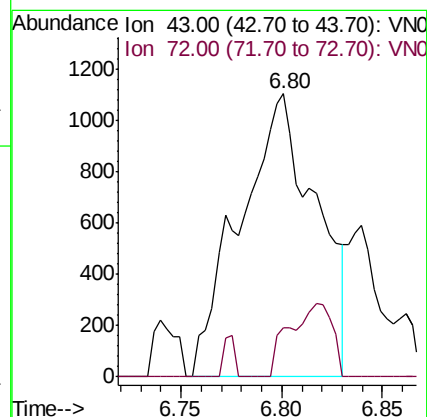
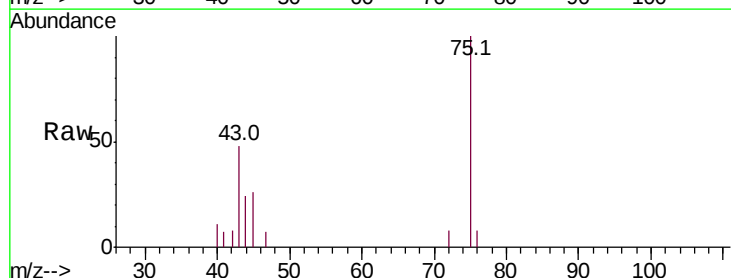
Instrument :
MSVOA_N
ClientSampleId :
0-6FT

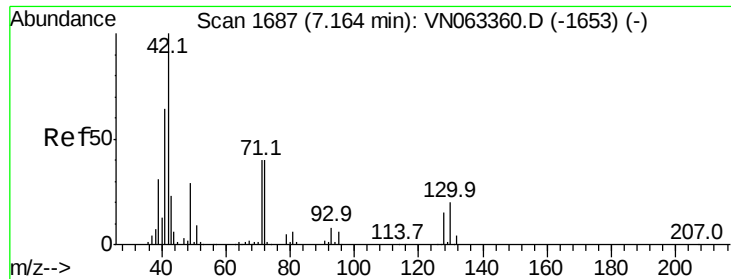
Tot Ion:	84	Resp:	13087
Ion	Ratio	Lower	Upper
84	100		
49	115.8	110.7	166.1
51	36.1	32.9	49.3
86	56.2	51.1	76.7



#25
2-Butanone
Concen: 1.716 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN063573.D
Acq: 23 Sep 2020 8:28

Tgt Ion:	43	Resp:	2906
Ion	Ratio	Lower	Upper
43	100		
72	17.5	19.2	28.8#





#29

Tetrahydrofuran

Concen: 0.539 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN063573.D

Acq: 23 Sep 2020 8:28

Instrument :

MSVOA_N

ClientSampleId :

0-6FT

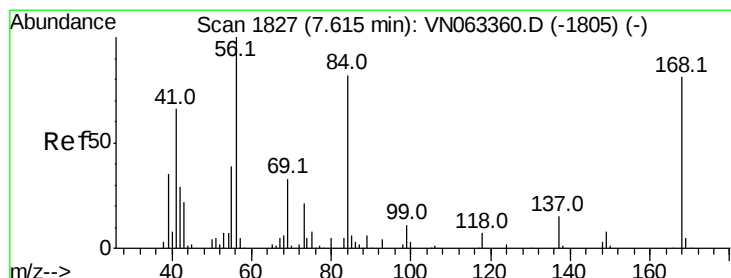
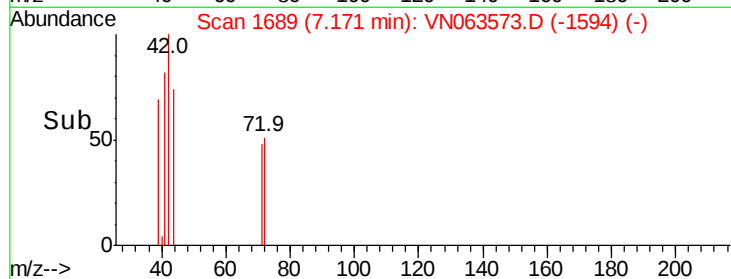
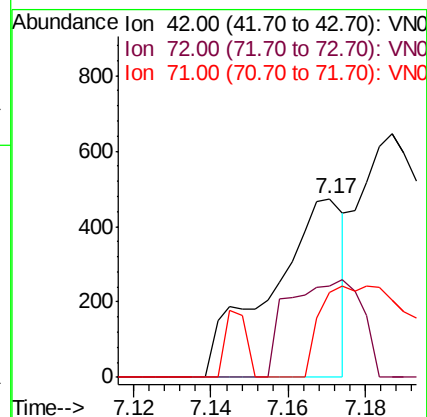
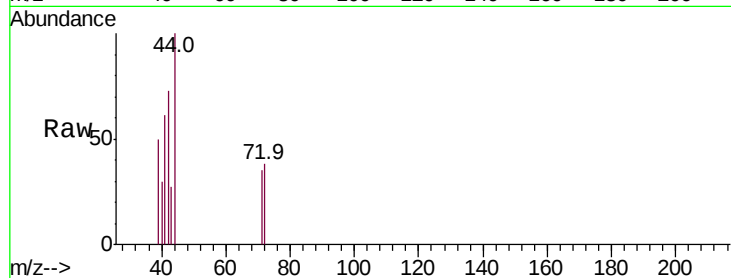
Tot Ion: 42 Resp: 624

Ion Ratio Lower Upper

42 100

72 54.8 32.1 48.1#

71 0.0 31.2 46.8#



#31

Cyclohexane

Concen: 1.170 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063573.D

Acq: 23 Sep 2020 8:28

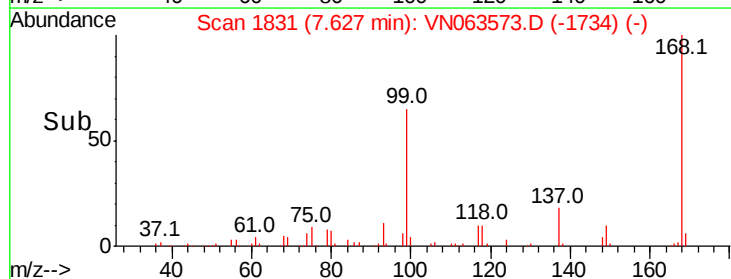
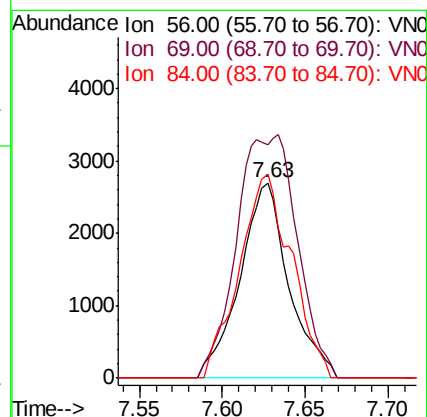
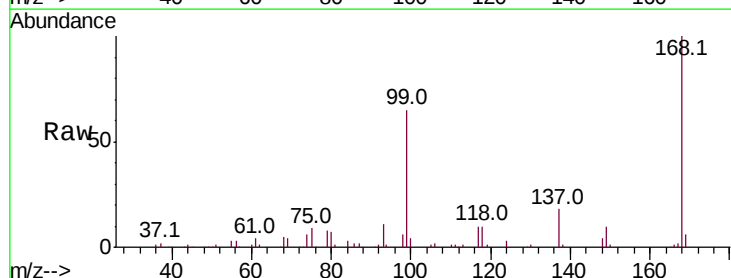
Tgt Ion: 56 Resp: 5538

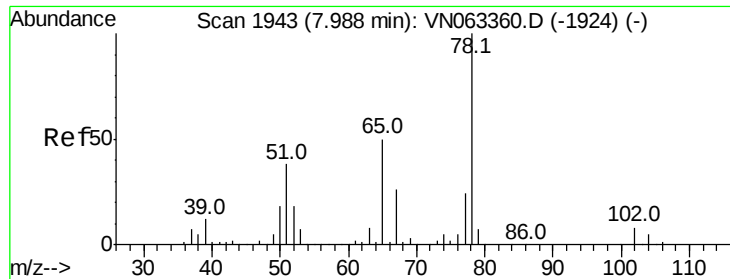
Ion Ratio Lower Upper

56 100

69 119.5 26.1 39.1#

84 104.0 65.4 98.2#

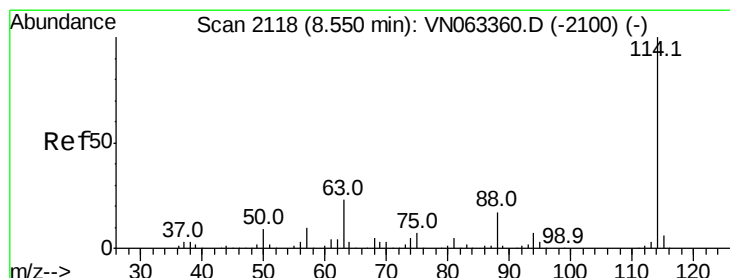
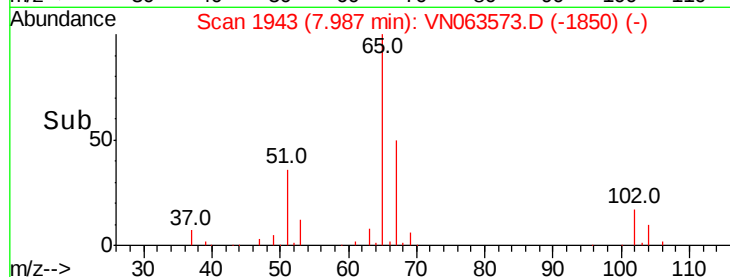
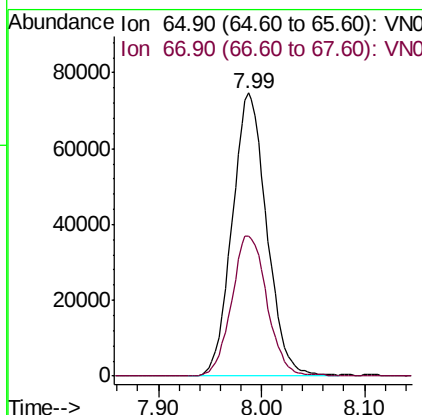
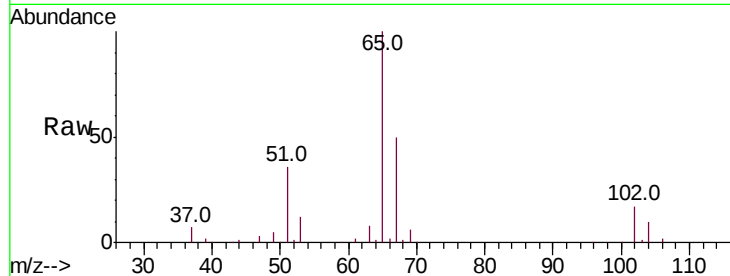




#33
 1,2-Dichloroethane-d4
 Concen: 50.725 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063573.D
 Acq: 23 Sep 2020 8:28

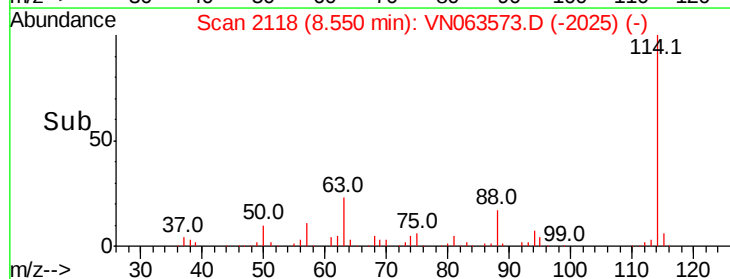
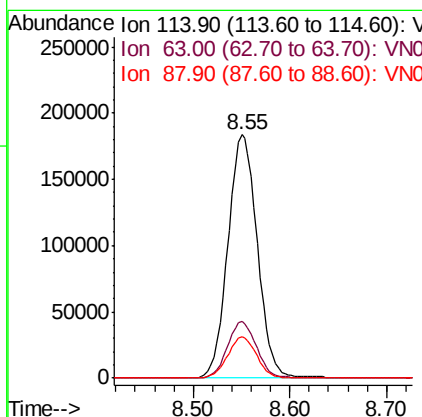
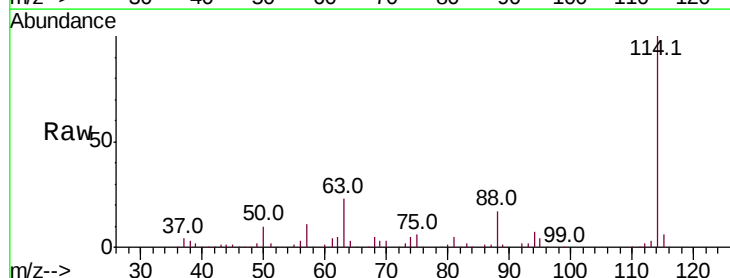
Instrument :
 MSVOA_N
 ClientSampled :
 0-6FT

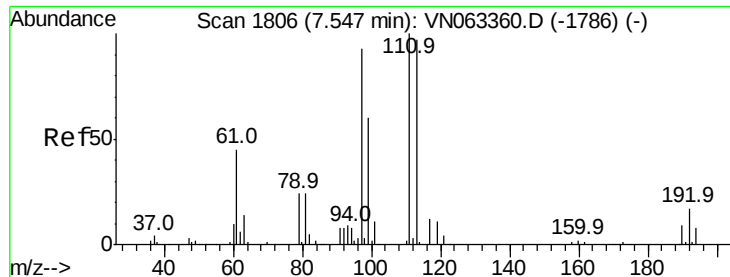
Tot Ion: 65 Resp: 173827
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063573.D
 Acq: 23 Sep 2020 8:28

Tgt Ion: 114 Resp: 388058
 Ion Ratio Lower Upper
 114 100
 63 23.2 0.0 46.4
 88 16.9 0.0 33.2

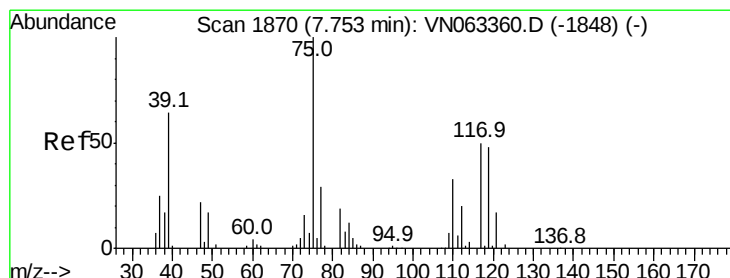
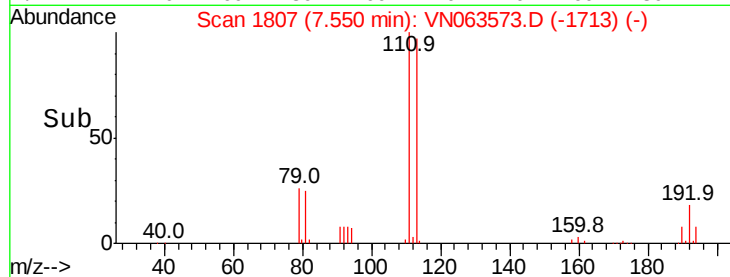
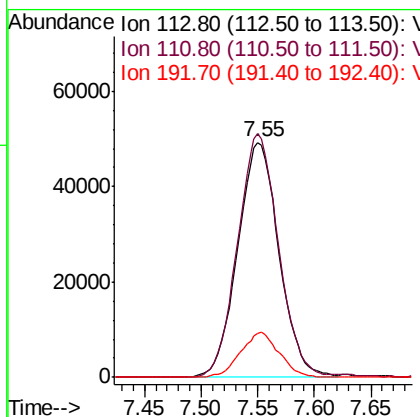
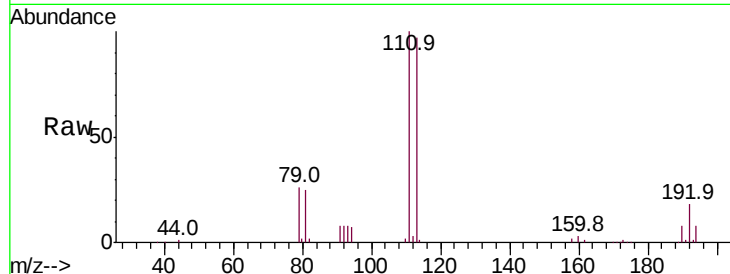




#35
 Dibromofluoromethane
 Concen: 46.627 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063573.D
 Acq: 23 Sep 2020 8:28

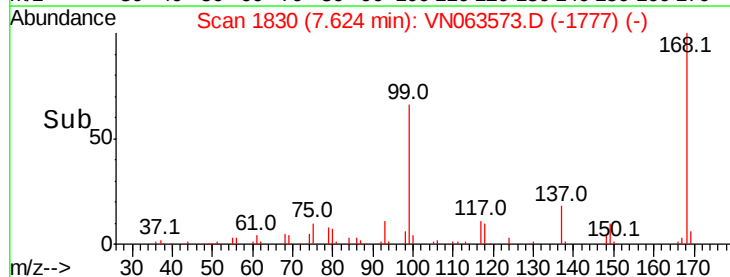
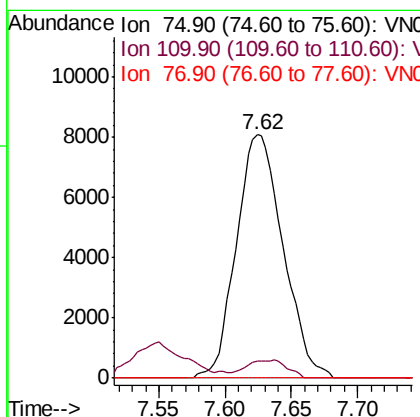
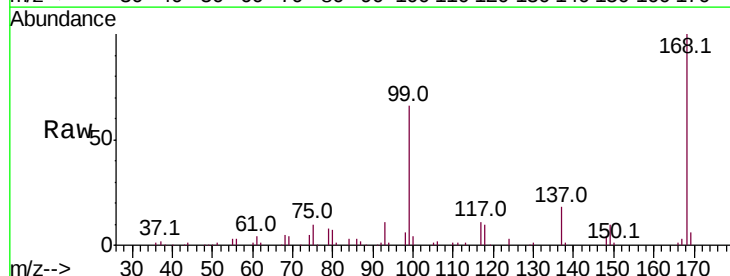
Instrument :
 MSVOA_N
 ClientSampleId :
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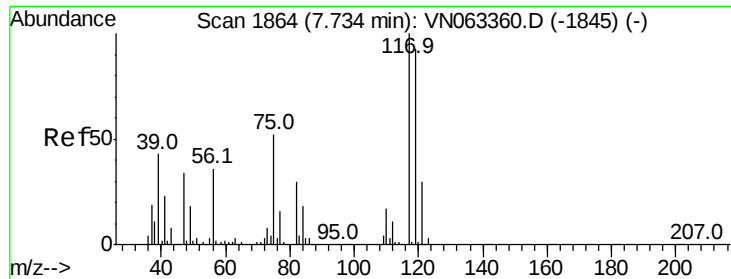
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.9	124.3
192	17.9	13.9	20.9



#36
 1,1-Dichloropropene
 Concen: 4.784 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063573.D
 Acq: 23 Sep 2020 8:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.4	16.5	49.5#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.358 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063573.D

Acq: 23 Sep 2020 8:28

Instrument :

MSVOA_N

ClientSampled :

0-6FT

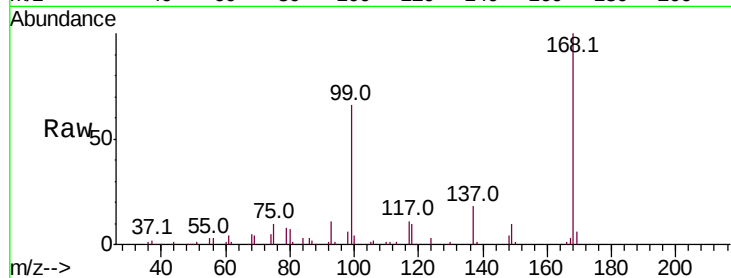
Tot Ion:117 Resp: 22614

Ion Ratio Lower Upper

117 100

119 3.9 74.5 111.7#

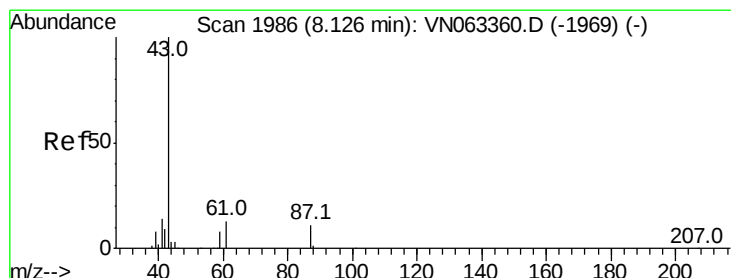
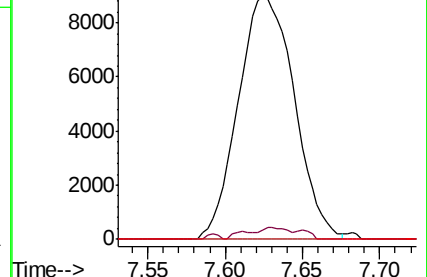
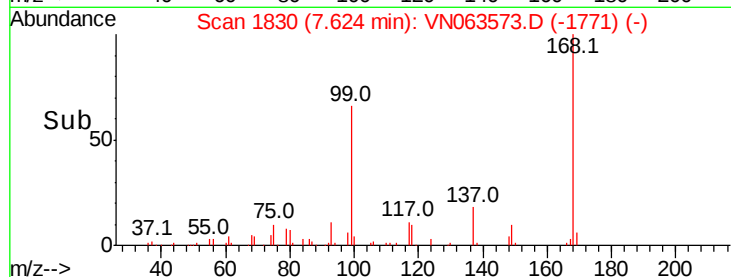
121 0.0 24.1 36.1#



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: 10.980 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063573.D

Acq: 23 Sep 2020 8:28

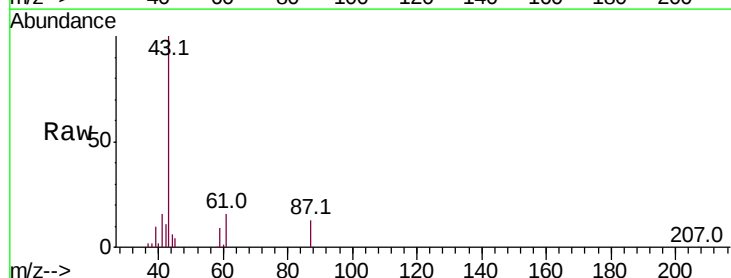
Tgt Ion: 43 Resp: 79660

Ion Ratio Lower Upper

43 100

61 17.3 14.2 21.2

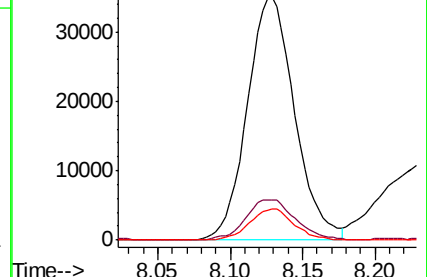
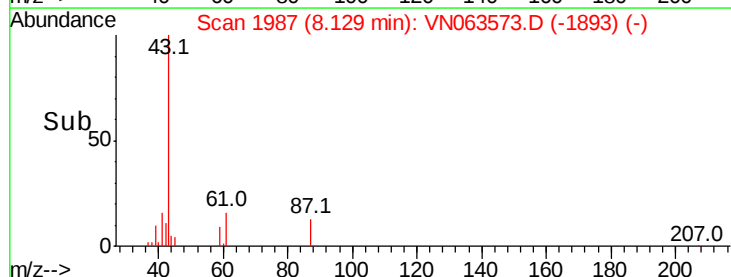
87 11.9 9.0 13.6

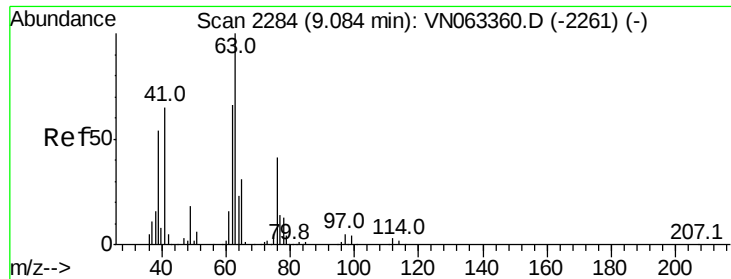


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.355 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN063573.D

Acq: 23 Sep 2020 8:28

Instrument :

MSVOA_N

ClientSampleId :

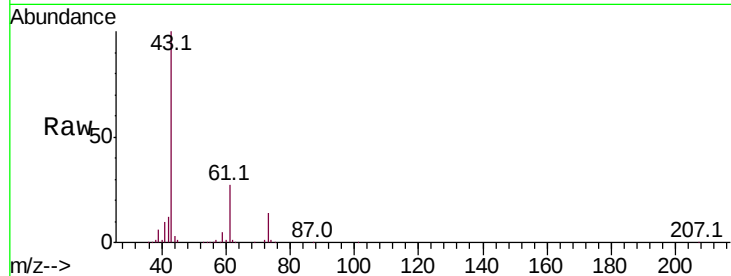
0-6FT

Tot Ion: 63 Resp: 1141

Ion Ratio Lower Upper

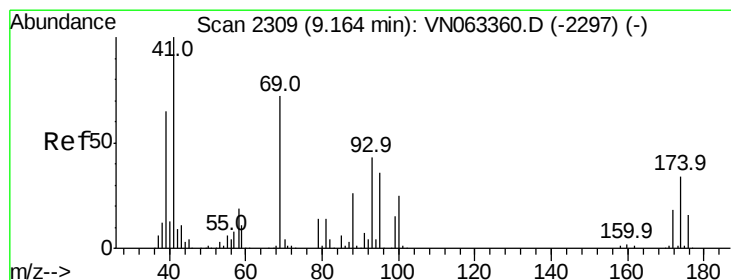
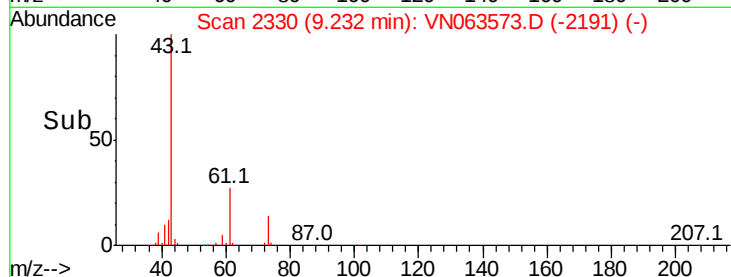
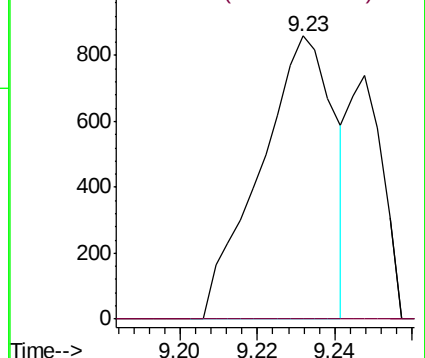
63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.197 ug/l

RT: 9.15 min Scan# 2305

Delta R.T. -0.01 min

Lab File: VN063573.D

Acq: 23 Sep 2020 8:28

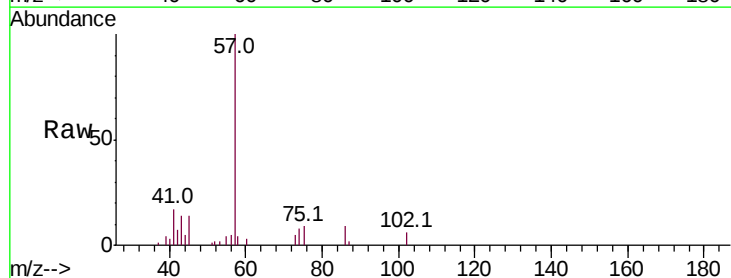
Tgt Ion: 41 Resp: 4268

Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

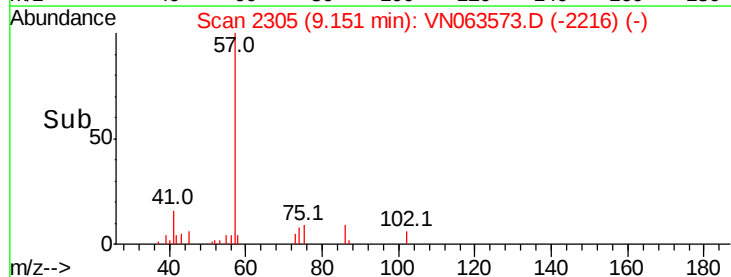
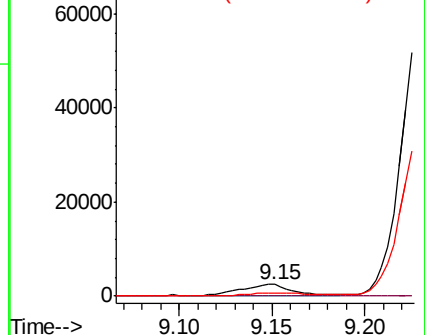
39 0.0 52.9 79.3#

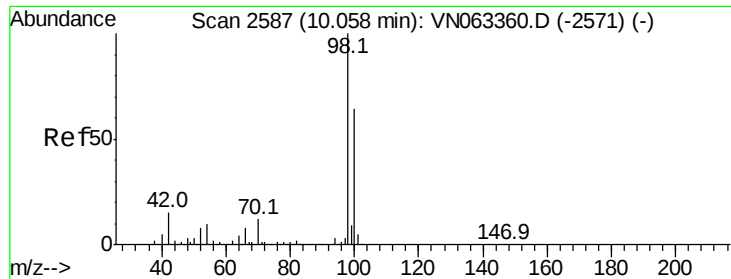


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 49.515 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063573.D

Acq: 23 Sep 2020 8:28

Instrument :

MSVOA_N

ClientSampled :

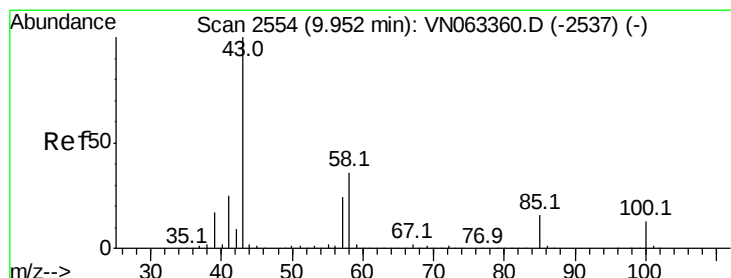
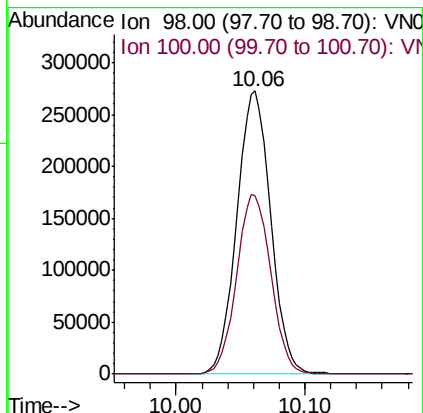
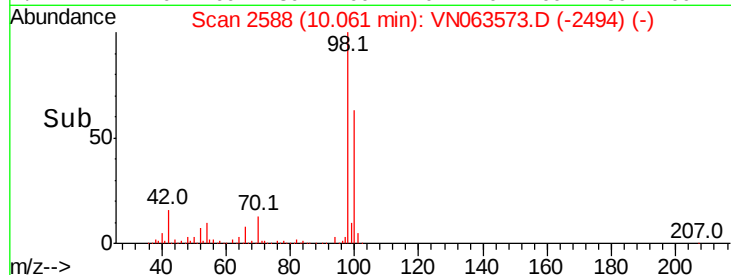
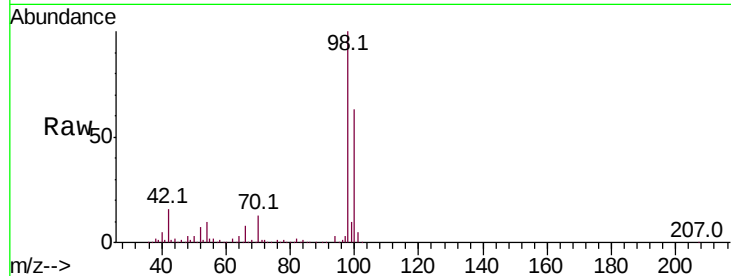
0-6FT

Tot Ion: 98 Resp: 500181

Ion Ratio Lower Upper

98 100

100 64.0 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 1.981 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063573.D

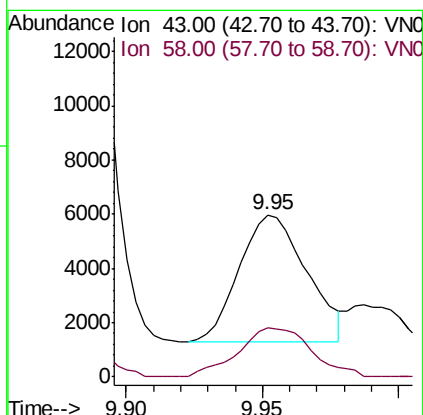
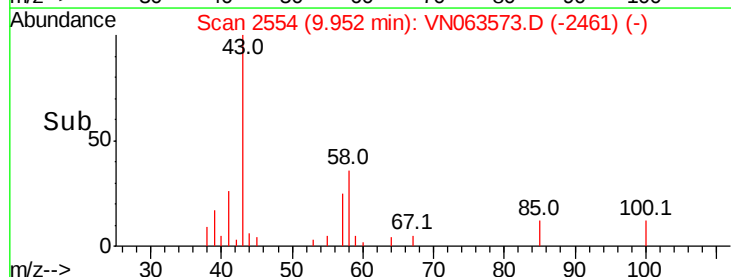
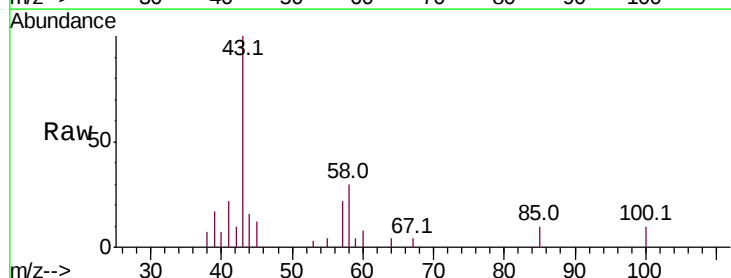
Acq: 23 Sep 2020 8:28

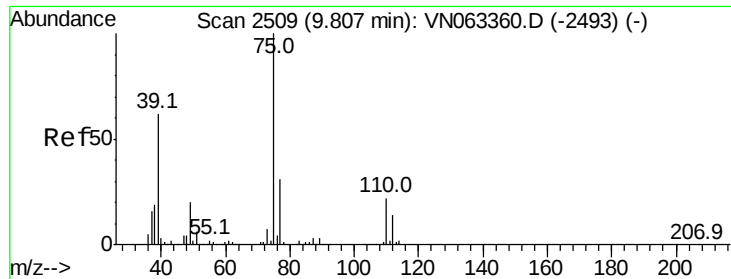
Tgt Ion: 43 Resp: 8046

Ion Ratio Lower Upper

43 100

58 41.8 29.0 43.6





#54

cis-1,3-Dichloropropene

Concen: 5.817 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063573.D

Acq: 23 Sep 2020 8:28

Instrument :

MSVOA_N

ClientSampled :

0-6FT

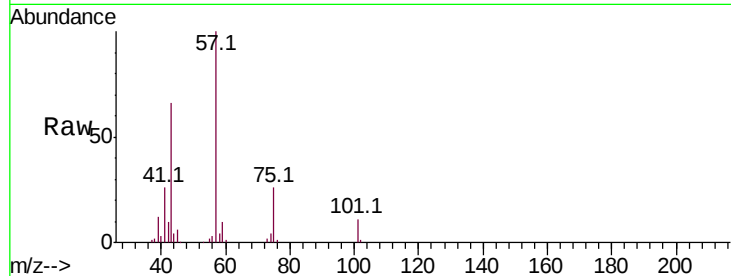
Tot Ion: 75 Resp: 30064

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

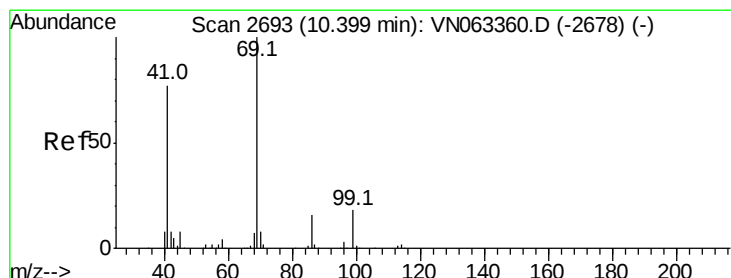
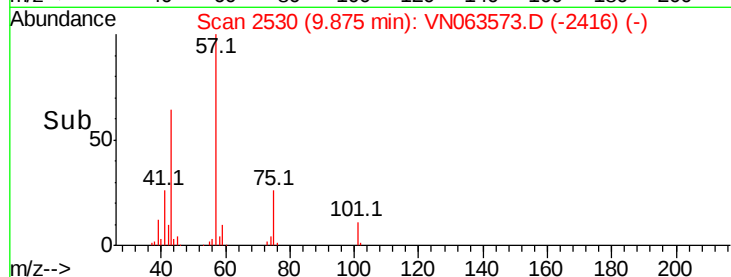
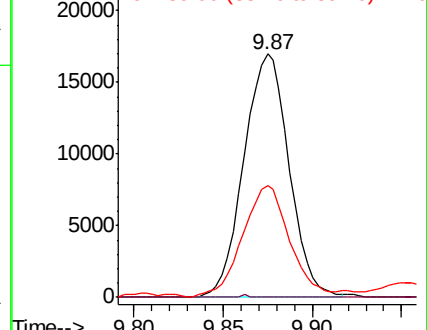
39 46.1 49.8 74.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 0.393 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN063573.D

Acq: 23 Sep 2020 8:28

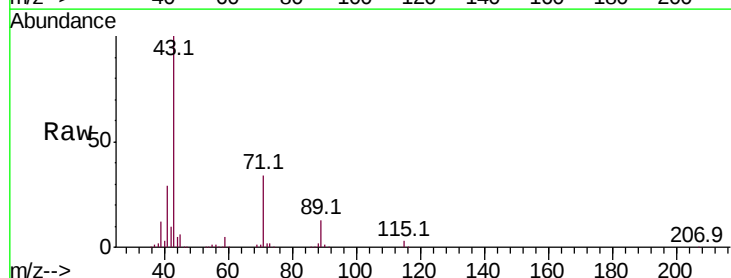
Tgt Ion: 69 Resp: 1729

Ion Ratio Lower Upper

69 100

41 4845.9 61.0 91.6#

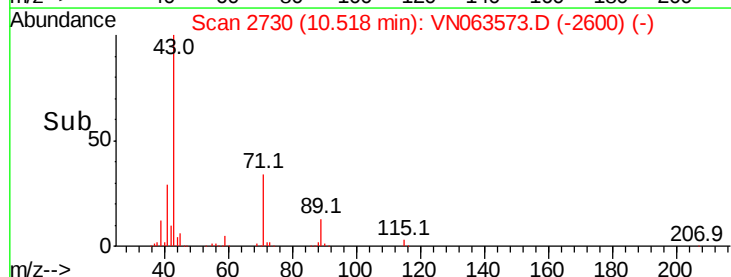
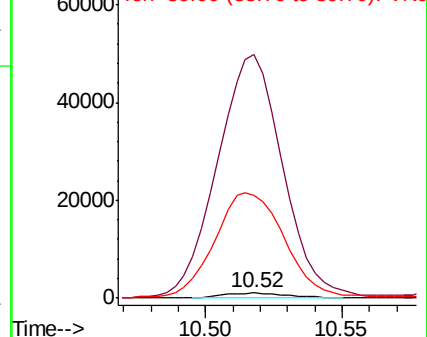
39 2240.5 39.2 58.8#

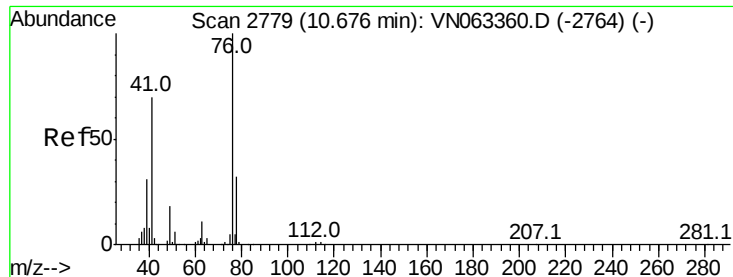


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.983 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063573.D

Acq: 23 Sep 2020 8:28

Instrument :

MSVOA_N

ClientSampleId :

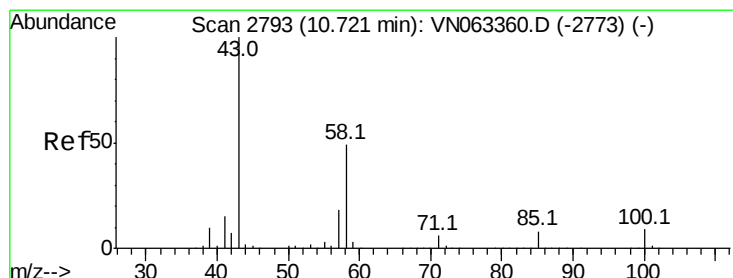
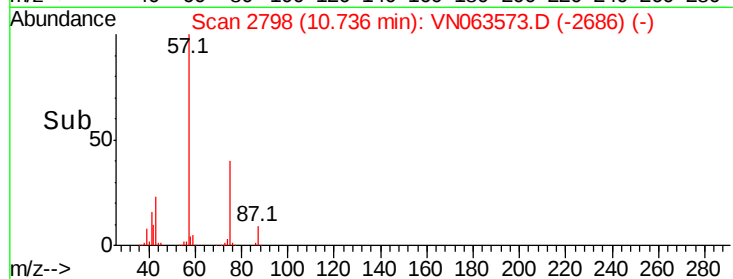
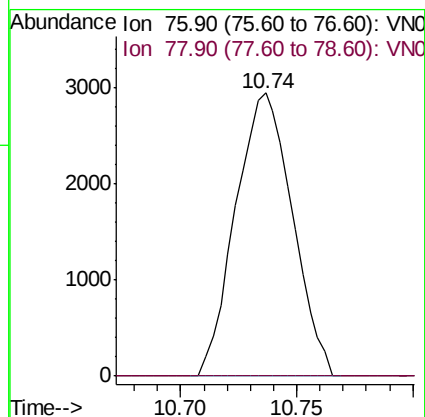
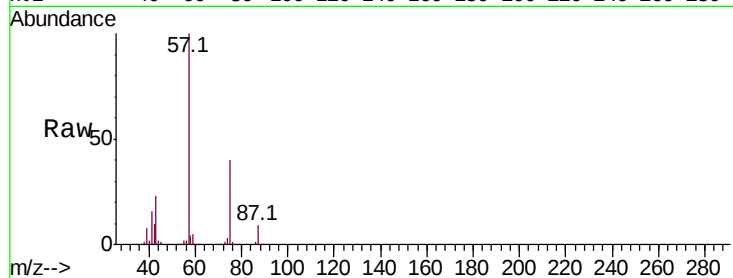
0-6FT

Tot Ion: 76 Resp: 4994

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 26.768 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063573.D

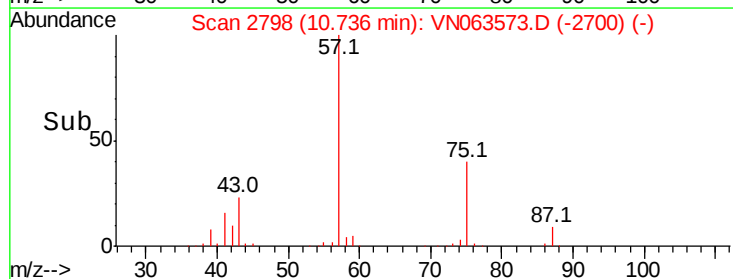
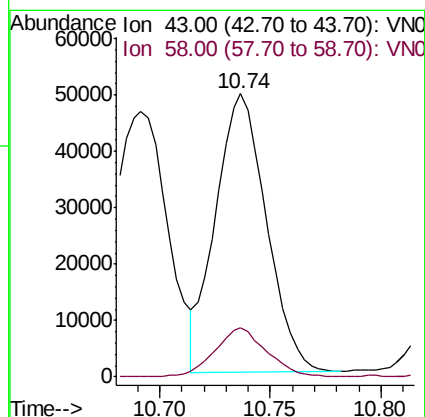
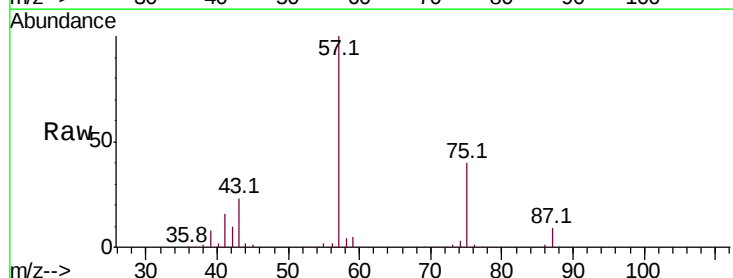
Acq: 23 Sep 2020 8:28

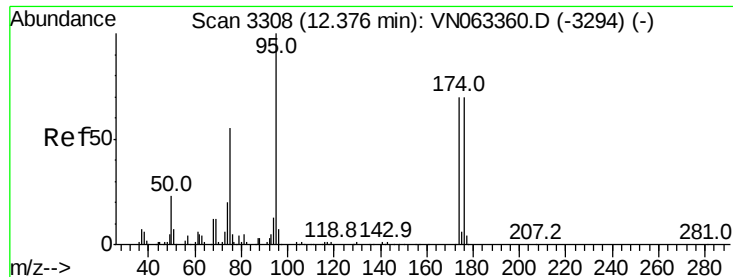
Tgt Ion: 43 Resp: 78770

Ion Ratio Lower Upper

43 100

58 18.1 24.7 74.1#

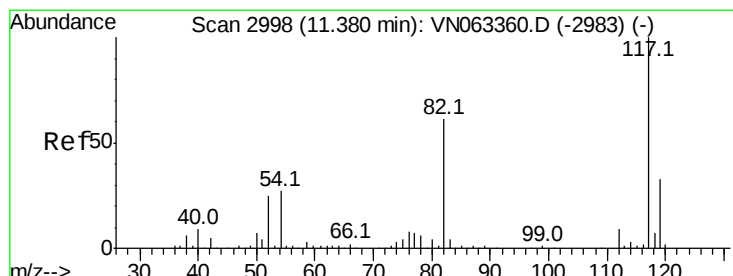
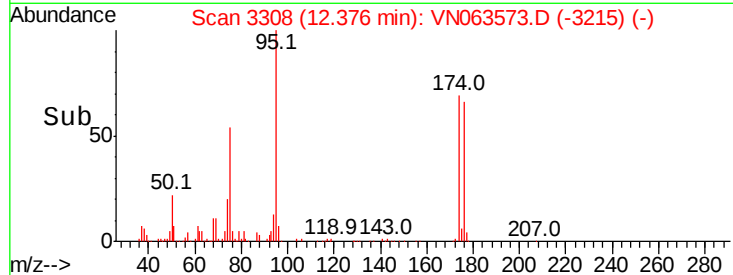
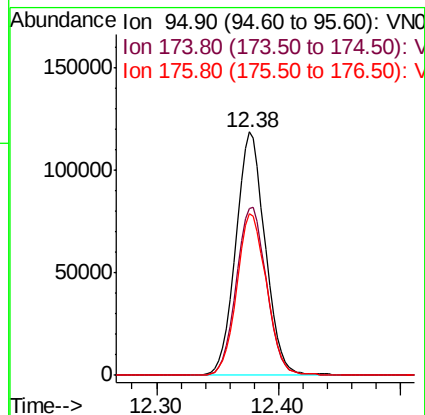
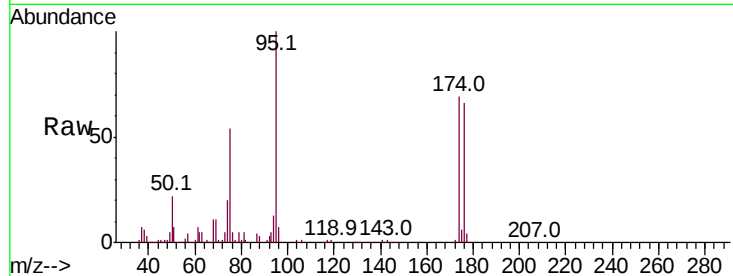




#62
4-Bromofluorobenzene
Concen: 53.428 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063573.D
Acq: 23 Sep 2020 8:28

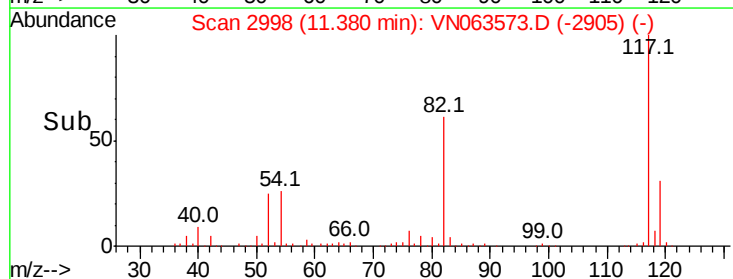
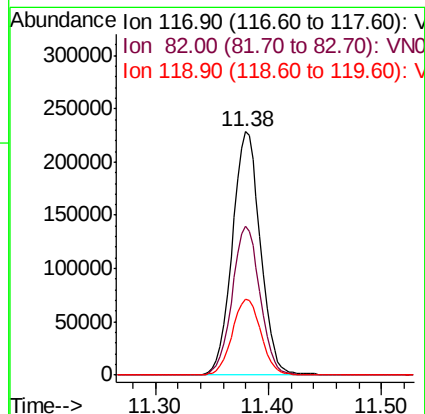
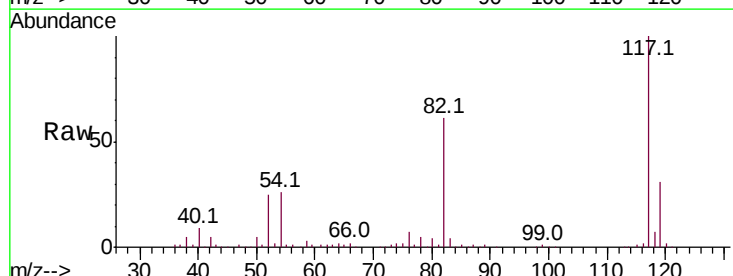
Instrument :
MSVOA_N
ClientSampleId :
0-6FT

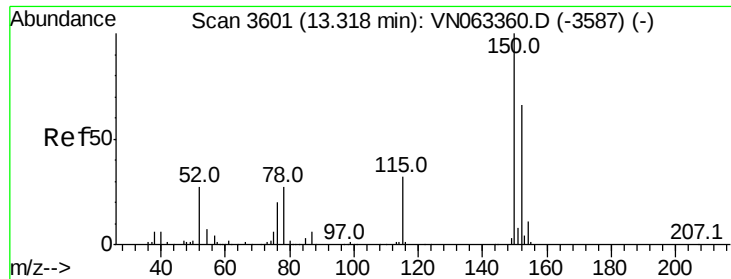
Tot Ion	95	Resp	197844
Ion Ratio	100		
Lower			
Upper			
174	70.9	0.0	140.8
176	67.4	0.0	137.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063573.D
Acq: 23 Sep 2020 8:28

Tgt Ion	117	Resp	394445
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower			
Upper			
82	61.0	49.2	73.8
119	31.0	26.2	39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063573.D

Acq: 23 Sep 2020 8:28

Instrument :

MSVOA_N

ClientSampled :

0-6FT

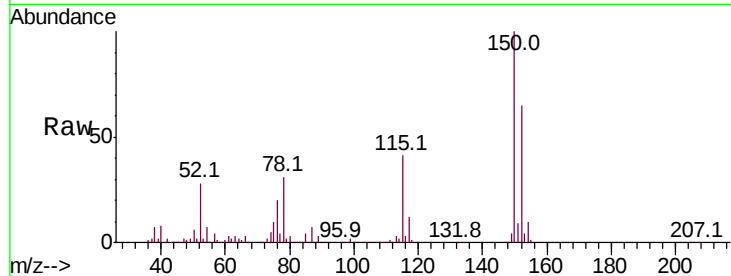
Tot Ion:152 Resp: 159161

Ion Ratio Lower Upper

152 100

115 65.4 32.2 96.6

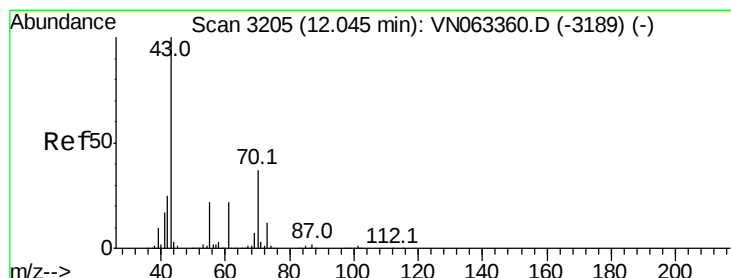
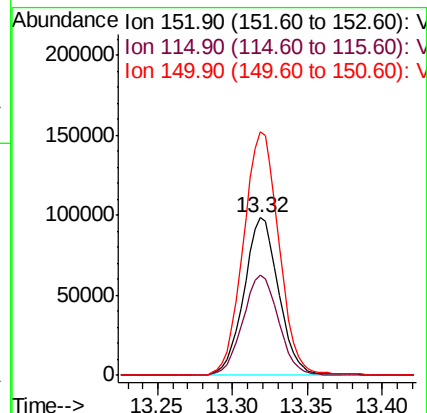
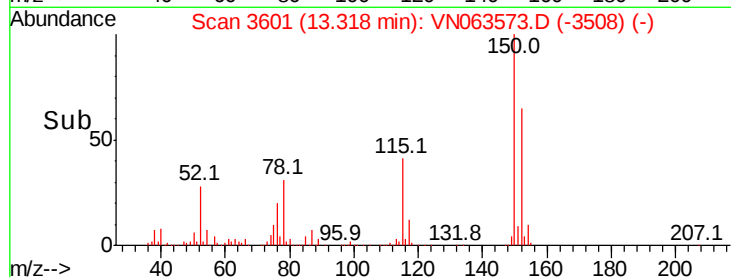
150 158.6 0.0 343.4



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: 0.560 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063573.D

Acq: 23 Sep 2020 8:28

Tgt Ion: 43 Resp: 3381

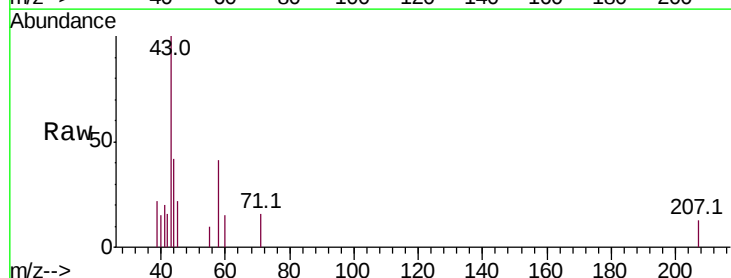
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 4.7 17.7 26.5#

61 0.0 17.4 26.2#

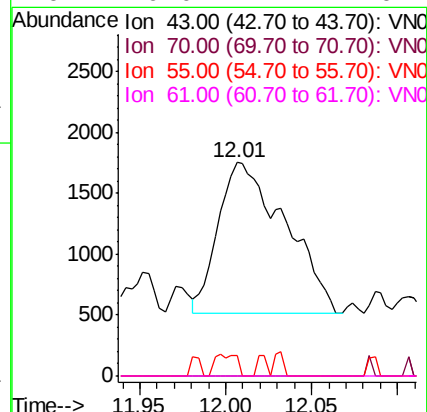
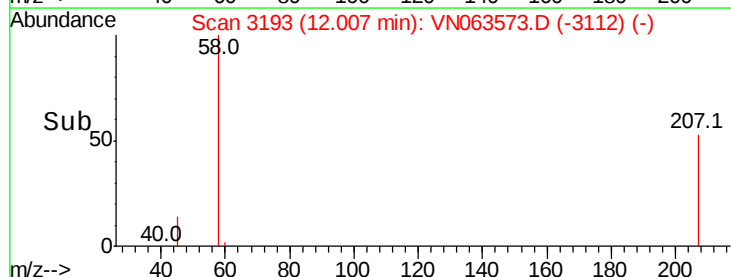


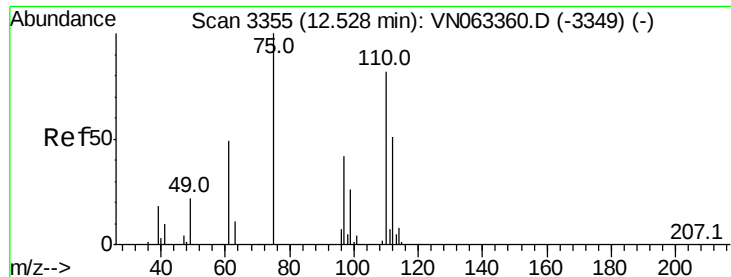
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 27.937 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063573.D

Acq: 23 Sep 2020 8:28

Instrument :

MSVOA_N

ClientSampled :

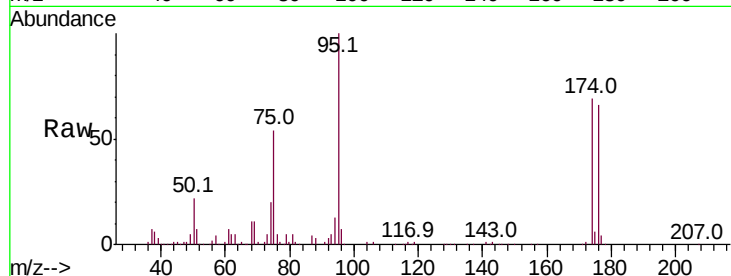
0-6FT

Tot Ion: 75 Resp: 110056

Ion Ratio Lower Upper

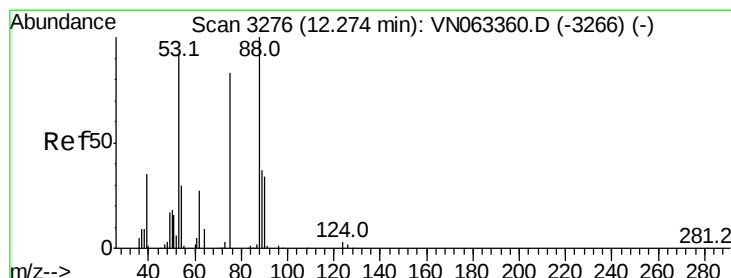
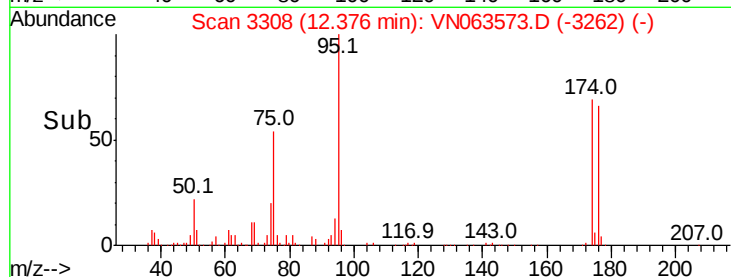
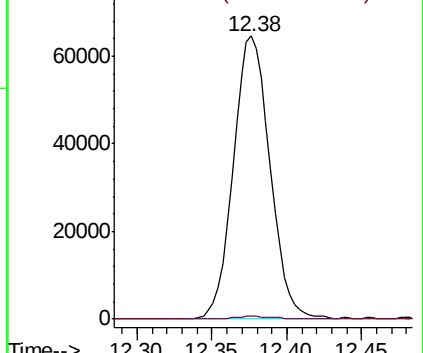
75 100

77 1.0 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: 76.592 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063573.D

Acq: 23 Sep 2020 8:28

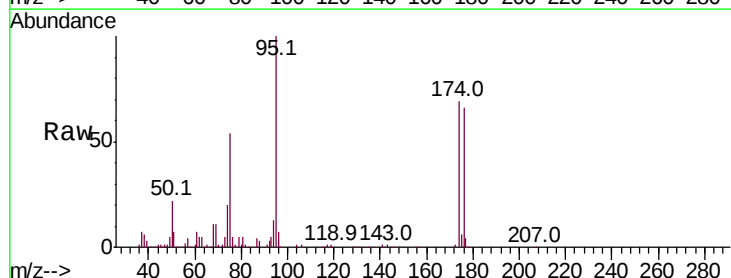
Tgt Ion: 75 Resp: 110056

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

