

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100120\
 Data File : VN063807.D
 Acq On : 2 Oct 2020 6:32
 Operator : JC/MD
 Sample : L4236-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4

Quant Time: Oct 02 07:18:08 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	199331	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	367002	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	371214	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	152267	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	179044	54.37	ug/l	0.00
Spiked Amount			Recovery	=	108.74%	
35) Dibromofluoromethane	7.55	113	127472	50.06	ug/l	0.00
Spiked Amount			Recovery	=	100.12%	
50) Toluene-d8	10.06	98	471814	48.87	ug/l	0.00
Spiked Amount			Recovery	=	97.74%	
62) 4-Bromofluorobenzene	12.38	95	180854	49.84	ug/l	0.00
Spiked Amount			Recovery	=	99.68%	

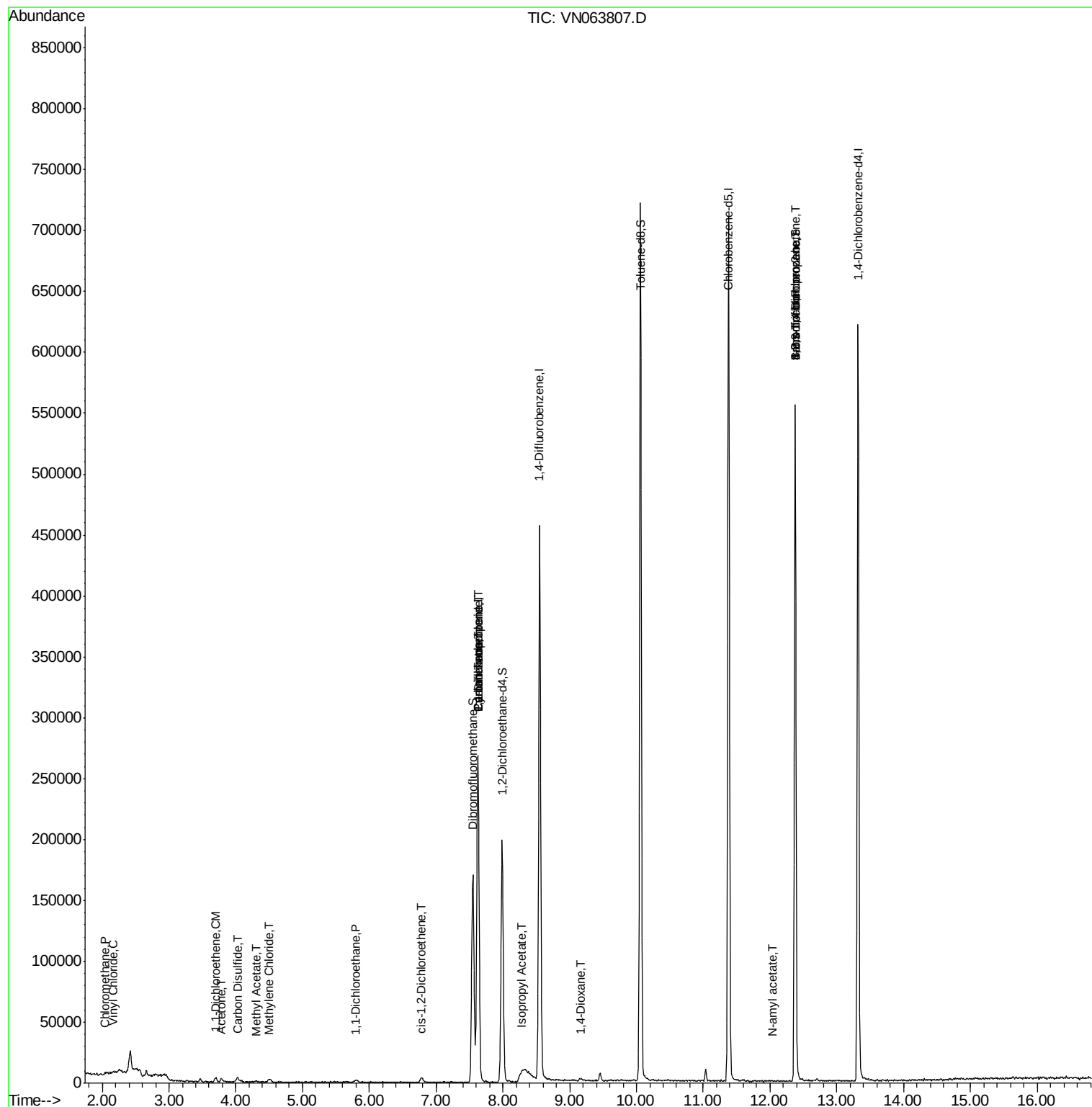
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	978	0.396	ug/l	90
4) Vinyl Chloride	2.17	62	742	0.300	ug/l #	46
12) 1,1-Dichloroethene	3.70	96	1697	0.845	ug/l	80
16) Acetone	3.78	43	2815	2.777	ug/l	93
17) Carbon Disulfide	4.02	76	237	0.744	ug/l #	76
18) Methyl Acetate	4.30	43	881	0.335	ug/l #	54
20) Methylene Chloride	4.51	84	1385	0.693	ug/l #	68
24) 1,1-Dichloroethane	5.79	63	1771	0.404	ug/l #	86
27) cis-1,2-Dichloroethene	6.78	96	930	0.360	ug/l #	1
31) Cyclohexane	7.62	56	5913	1.547	ug/l #	54
36) 1,1-Dichloropropene	7.62	75	18514	4.979	ug/l #	51
38) Carbon Tetrachloride	7.62	117	21500	5.157	ug/l #	15
43) Isopropyl Acetate	8.27	43	5842	0.959	ug/l #	64
49) 1,4-Dioxane	9.17	88	1151	26.903	ug/l	89
71) Bromoform	12.37	173	507	0.227	ug/l #	1
74) N-amyl acetate	12.05	43	124	2.239	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	104988	31.278	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	104988	90.087	ug/l #	6

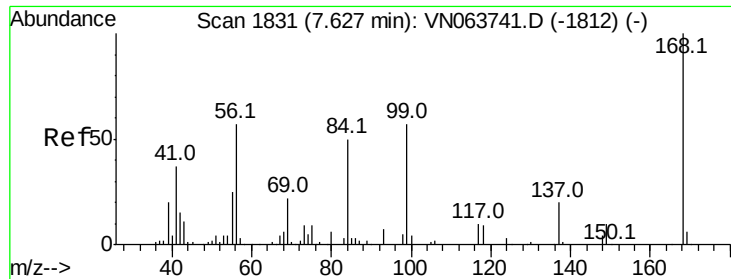
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063807.D

Acq: 2 Oct 2020 6:32

Instrument :

MSVOA_N

ClientSampleId :

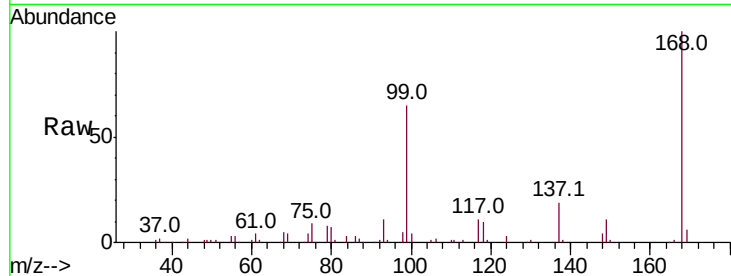
MW-4

Tot Ion:168 Resp: 199331

Ion Ratio Lower Upper

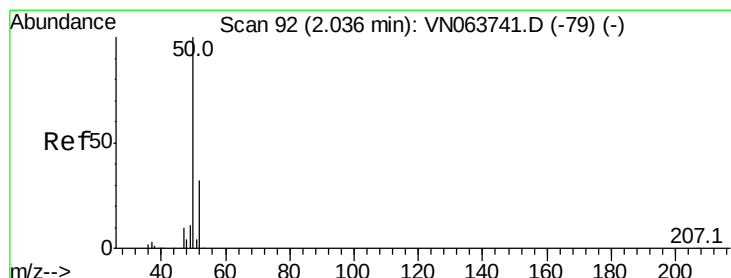
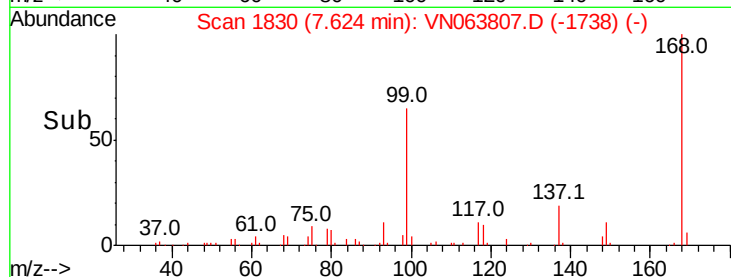
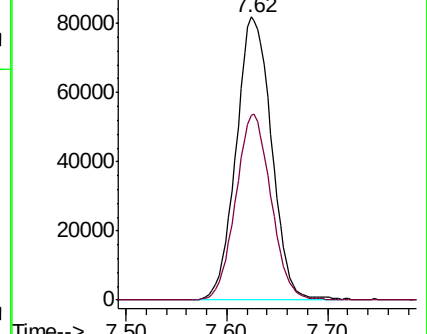
168 100

99 65.4 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: 0.396 ug/l

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063807.D

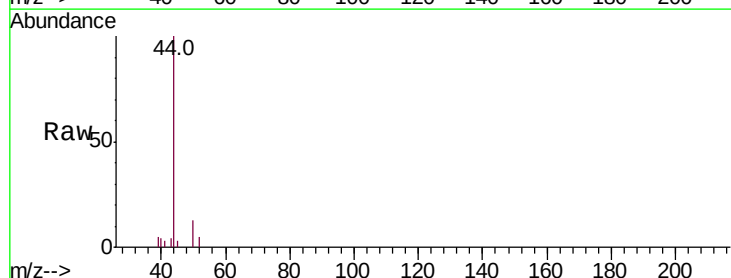
Acq: 2 Oct 2020 6:32

Tgt Ion: 50 Resp: 978

Ion Ratio Lower Upper

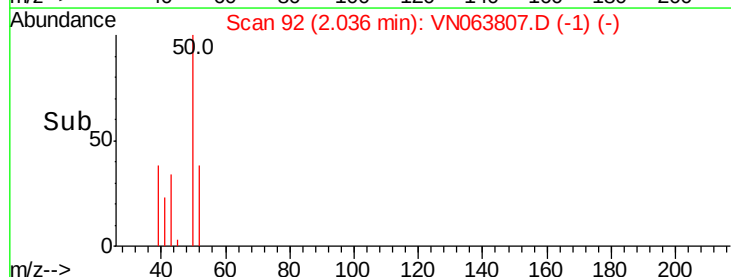
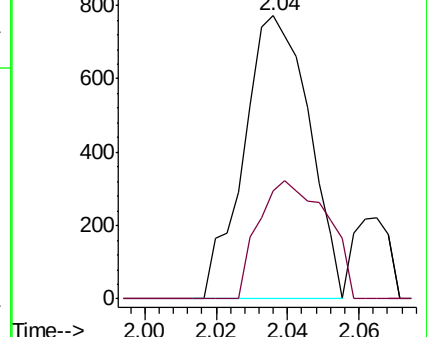
50 100

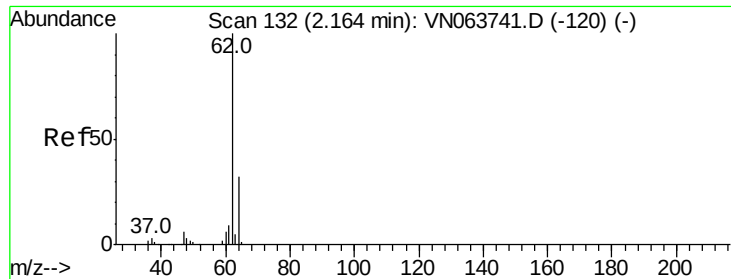
52 38.0 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#4

Vinyl Chloride

Concen: 0.300 ug/l

RT: 2.17 min Scan# 134

Delta R.T. 0.01 min

Lab File: VN063807.D

Acq: 2 Oct 2020 6:32

Instrument :

MSVOA_N

ClientSampled :

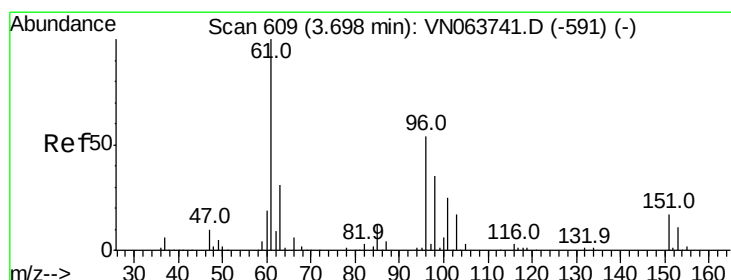
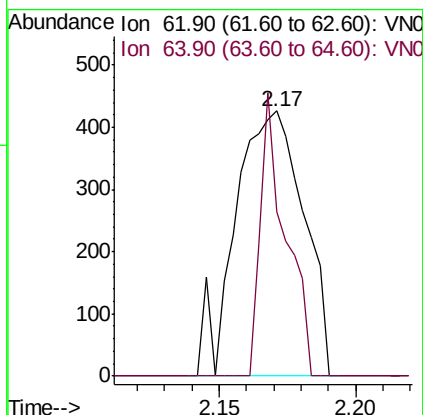
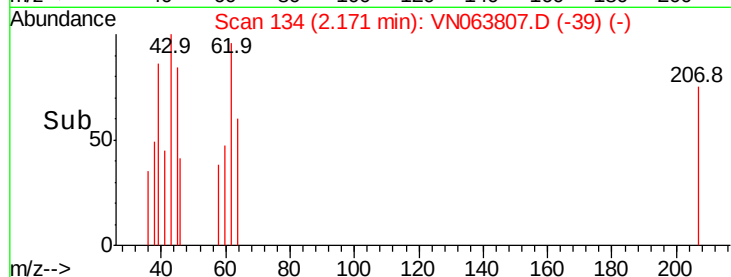
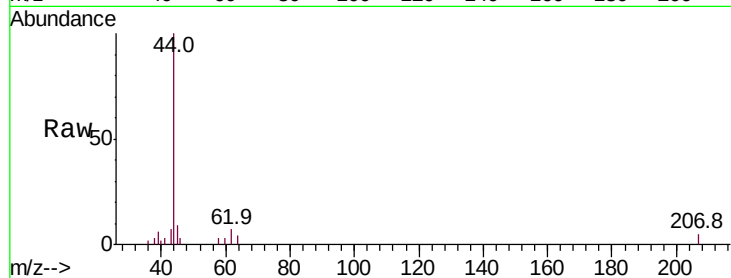
MW-4

Tot Ion: 62 Resp: 742

Ion Ratio Lower Upper

62 100

64 62.0 25.6 38.4#



#12

1,1-Dichloroethene

Concen: 0.845 ug/l

RT: 3.70 min Scan# 609

Delta R.T. 0.00 min

Lab File: VN063807.D

Acq: 2 Oct 2020 6:32

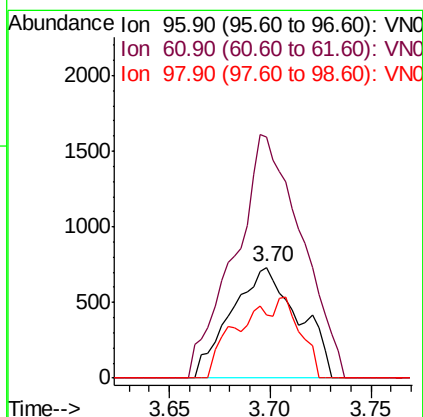
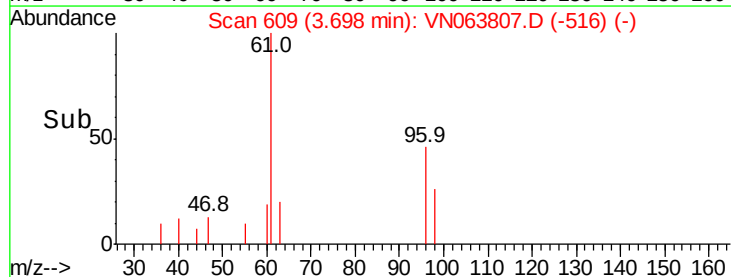
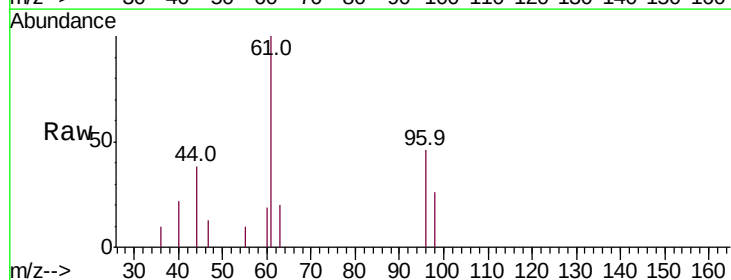
Tgt Ion: 96 Resp: 1697

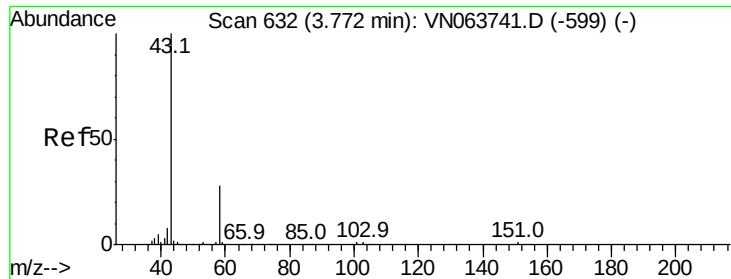
Ion Ratio Lower Upper

96 100

61 218.3 147.7 221.5

98 56.6 51.9 77.9





#16

Acetone

Concen: 2.777 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063807.D

Acq: 2 Oct 2020 6:32

Instrument :

MSVOA_N

ClientSampled :

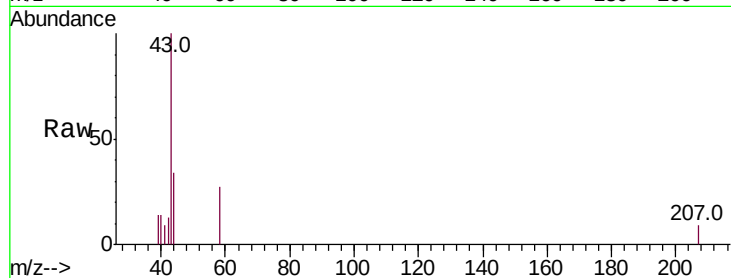
MW-4

Tot Ion: 43 Resp: 2815

Ion Ratio Lower Upper

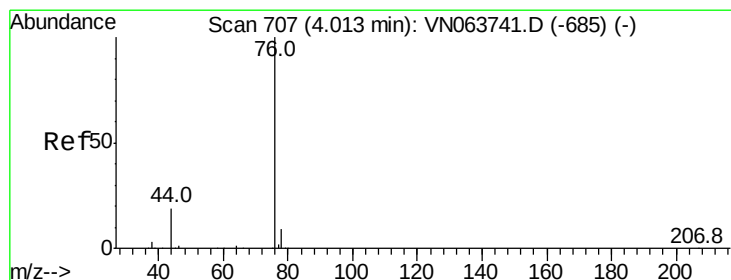
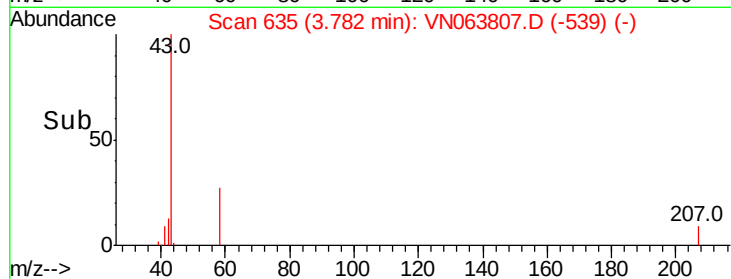
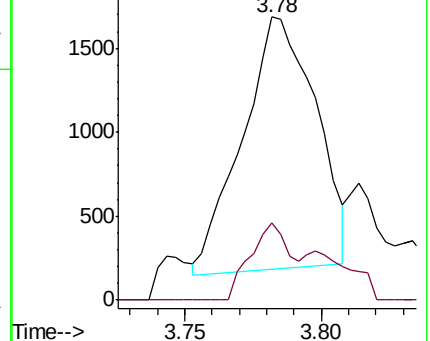
43 100

58 31.5 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.744 ug/l

RT: 4.02 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN063807.D

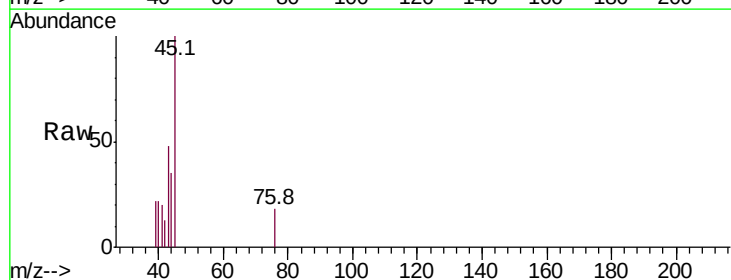
Acq: 2 Oct 2020 6:32

Tgt Ion: 76 Resp: 237

Ion Ratio Lower Upper

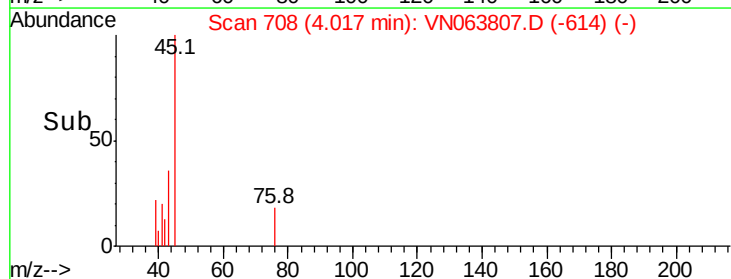
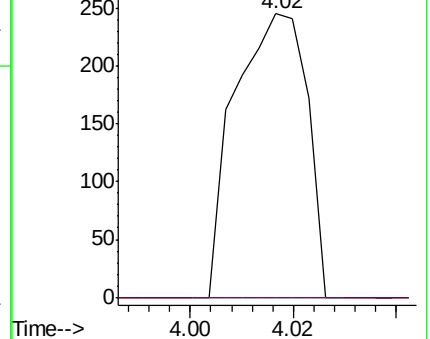
76 100

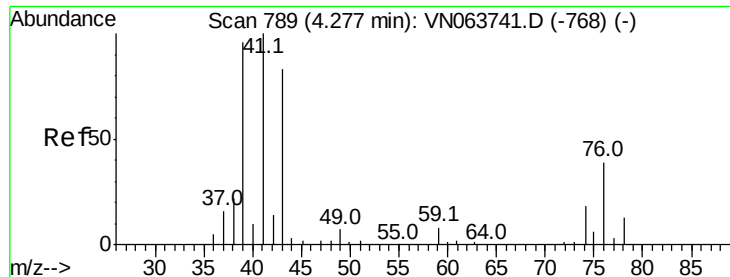
78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#18

Methvl Acetate

Concen: 0.335 ug/l

RT: 4.30 min Scan# 796

Delta R.T. 0.02 min

Lab File: VN063807.D

Acq: 2 Oct 2020 6:32

Instrument :

MSVOA_N

ClientSampled :

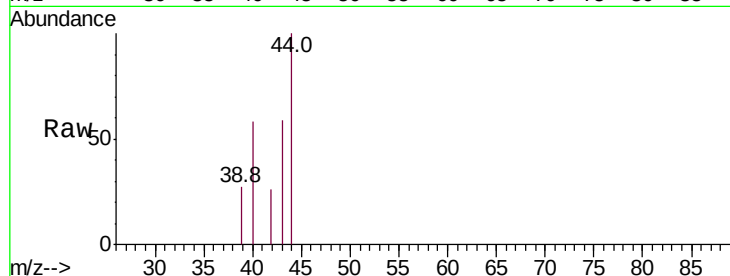
MW-4

Tot Ion: 43 Resp: 881

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

4.30

400

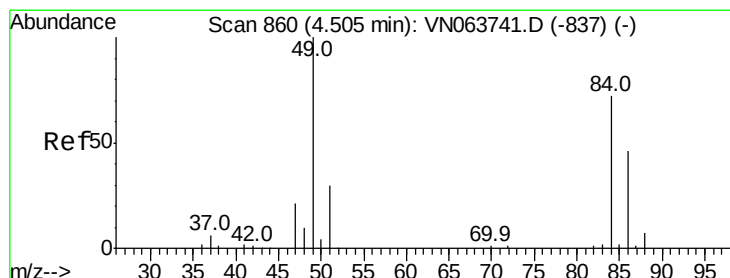
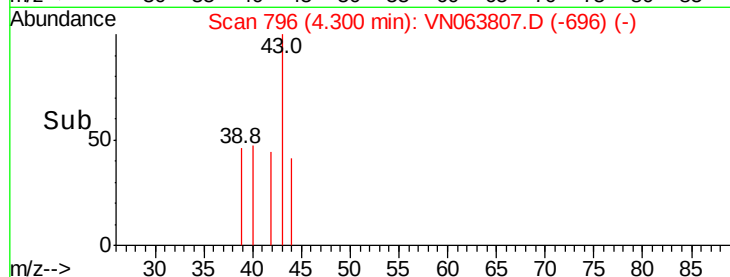
300

200

100

0

Time-->



#20

Methylene Chloride

Concen: 0.693 ug/l

RT: 4.51 min Scan# 860

Delta R.T. 0.00 min

Lab File: VN063807.D

Acq: 2 Oct 2020 6:32

Tgt Ion: 84 Resp: 1385

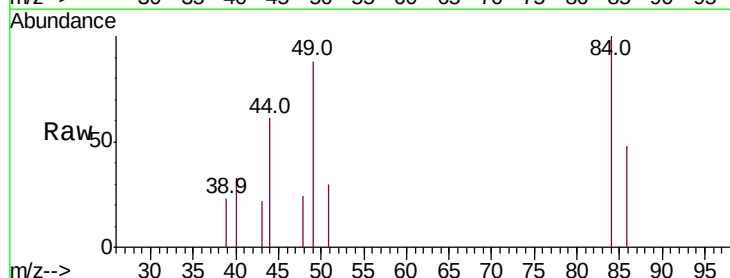
Ion Ratio Lower Upper

84 100

49 87.9 110.4 165.6#

51 29.5 33.3 49.9#

86 47.6 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

1200

1000

800

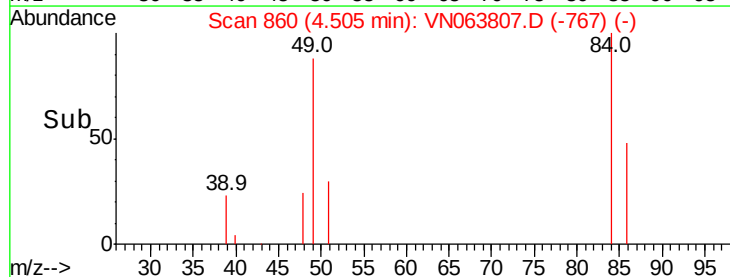
600

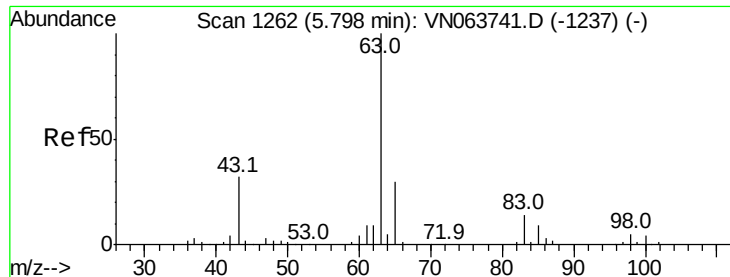
400

200

0

Time-->

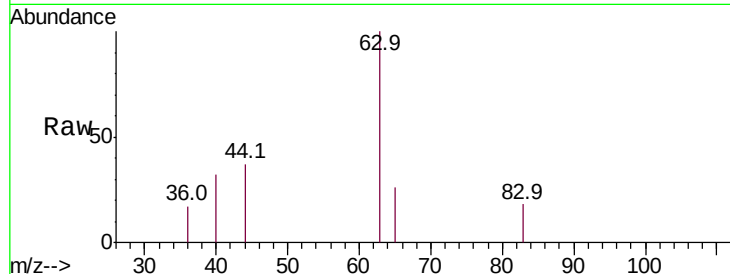




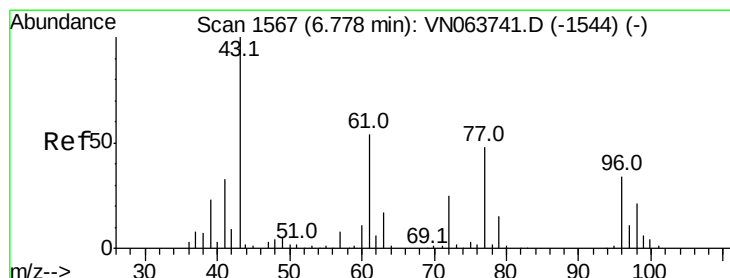
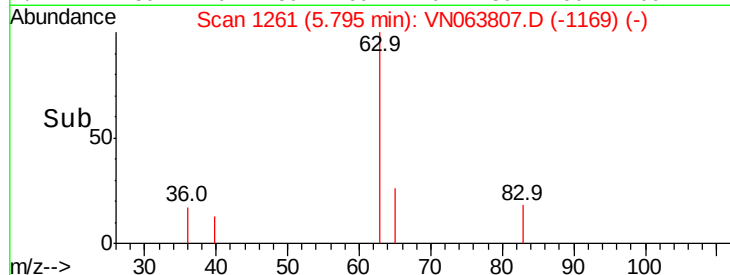
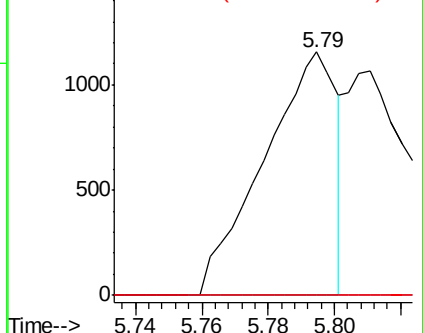
#24
 1,1-Dichloroethane
 Concen: 0.404 ug/l
 RT: 5.79 min Scan# 1261
 Delta R.T. -0.00 min
 Lab File: VN063807.D
 Acq: 2 Oct 2020 6:32

Instrument :
 MSVOA_N
 ClientSampled :
 MW-4

Tot Ion: 63 Resp: 1771
 Ion Ratio Lower Upper
 63 100
 98 0.0 2.7 8.1#
 100 0.0 1.9 5.7#

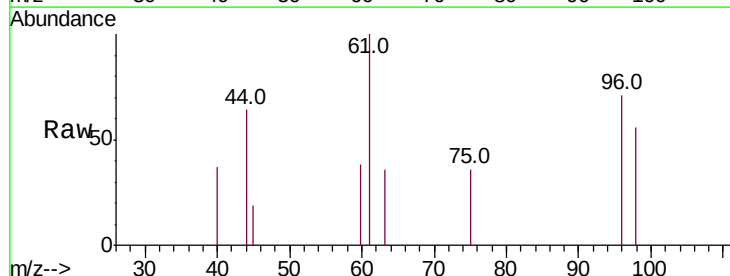


Abundance Ion 62.90 (62.60 to 63.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0
 Ion 99.90 (99.60 to 100.60): VN0

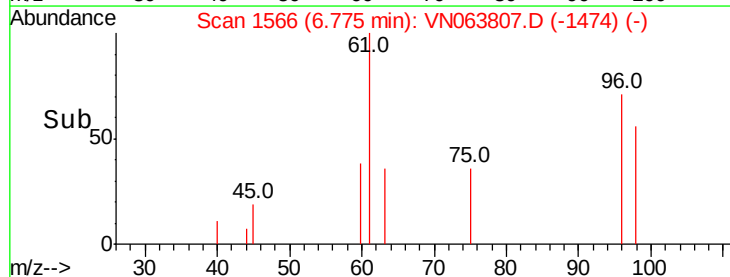
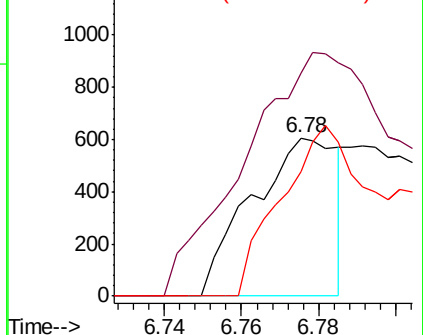


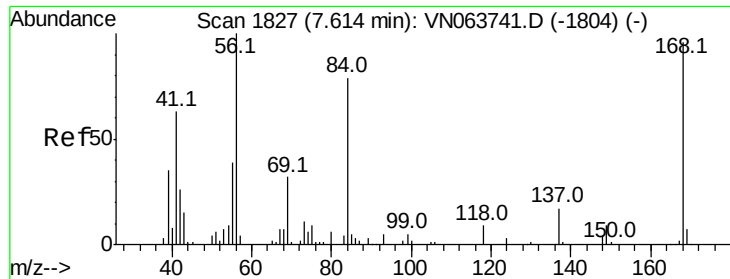
#27
 cis-1,2-Dichloroethene
 Concen: 0.360 ug/l
 RT: 6.78 min Scan# 1566
 Delta R.T. -0.00 min
 Lab File: VN063807.D
 Acq: 2 Oct 2020 6:32

Tgt Ion: 96 Resp: 930
 Ion Ratio Lower Upper
 96 100
 61 296.6 0.0 321.2
 98 130.8 0.0 124.4#



Abundance Ion 95.90 (95.60 to 96.60): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0

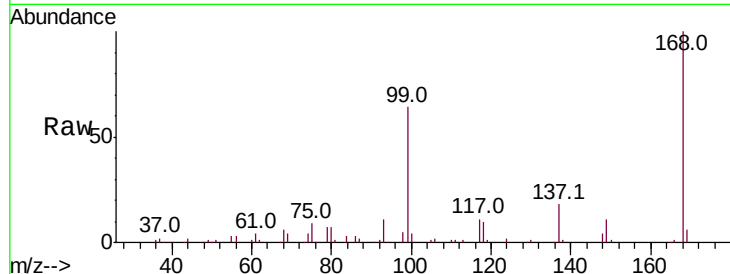




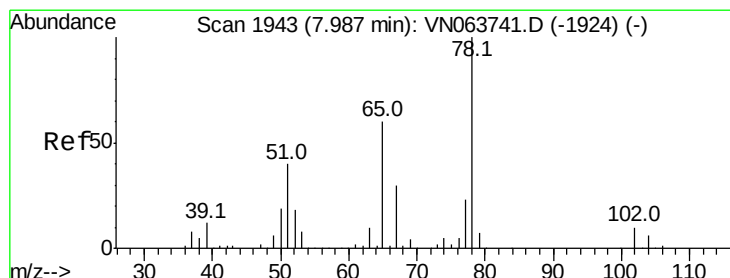
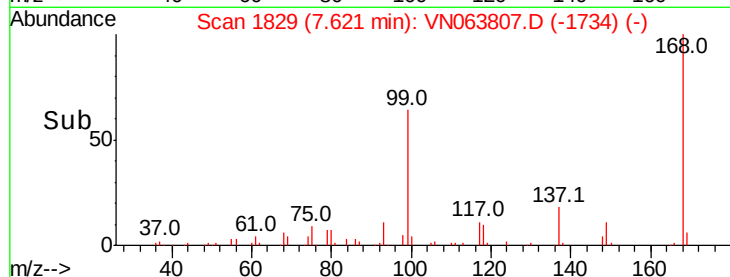
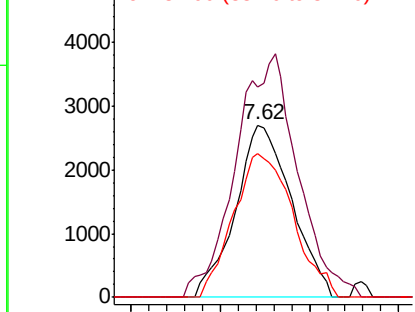
#31
Cyclohexane
Concen: 1.547 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN063807.D
Acq: 2 Oct 2020 6:32

Instrument :
MSVOA_N
ClientSampled :
MW-4

Tot Ion: 56 Resp: 5913
Ion Ratio Lower Upper
56 100
69 113.9 25.4 38.2#
84 83.7 63.3 94.9

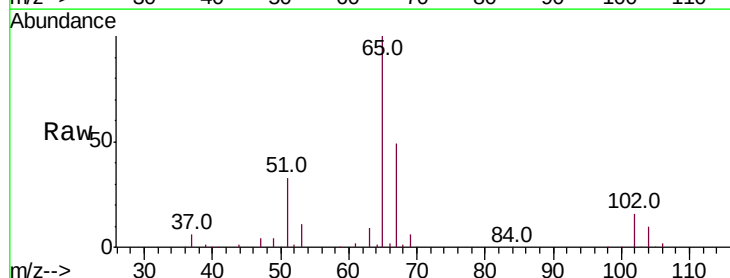


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

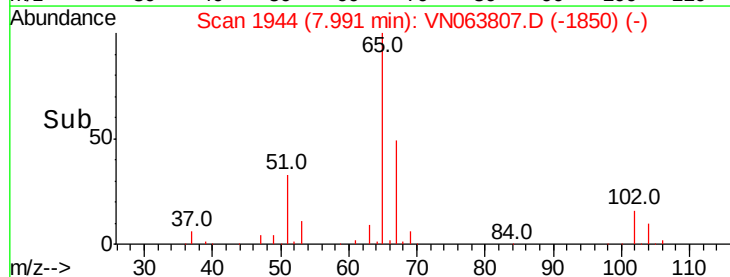
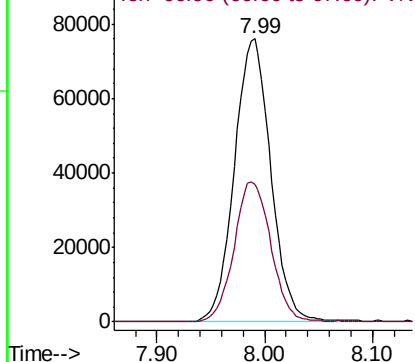


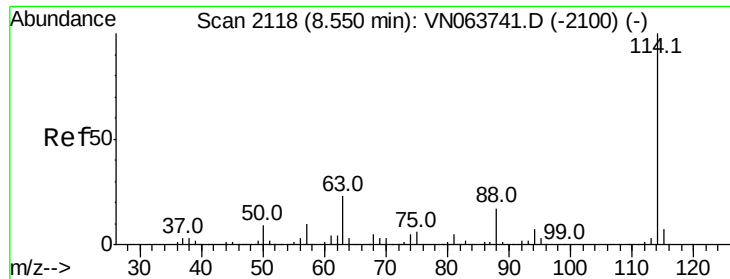
#33
1,2-Dichloroethane-d4
Concen: 54.370 ug/l
RT: 7.99 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN063807.D
Acq: 2 Oct 2020 6:32

Tgt Ion: 65 Resp: 179044
Ion Ratio Lower Upper
65 100
67 50.1 0.0 99.6



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

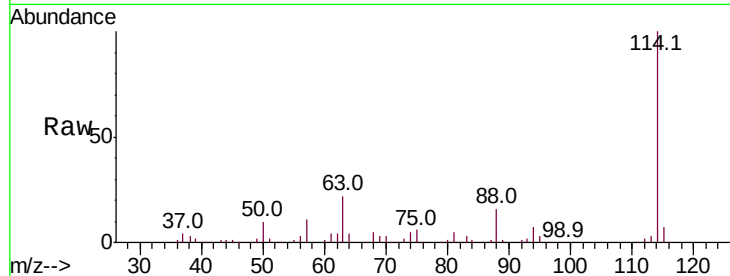




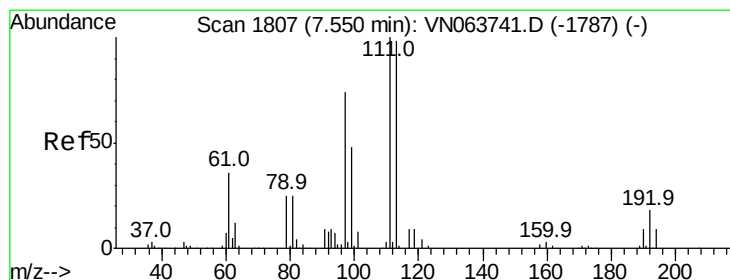
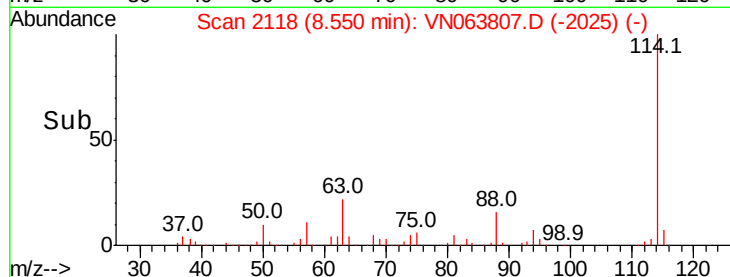
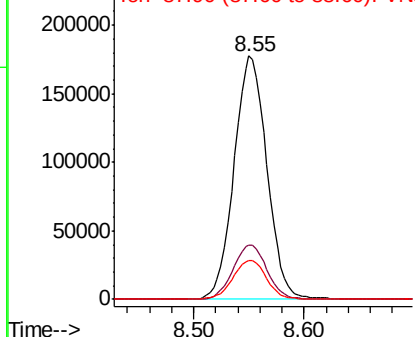
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN063807.D
 Acq: 2 Oct 2020 6:32

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4

Tot Ion:114 Resp: 367002
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 45.0
 88 16.1 0.0 34.0

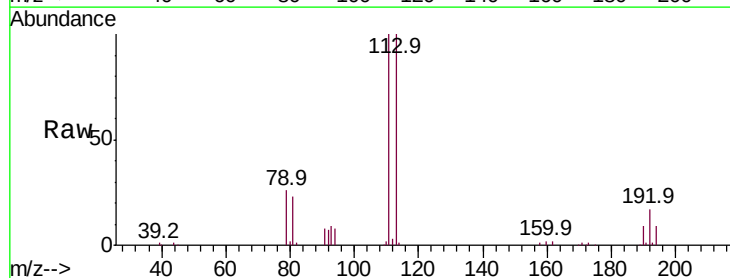


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

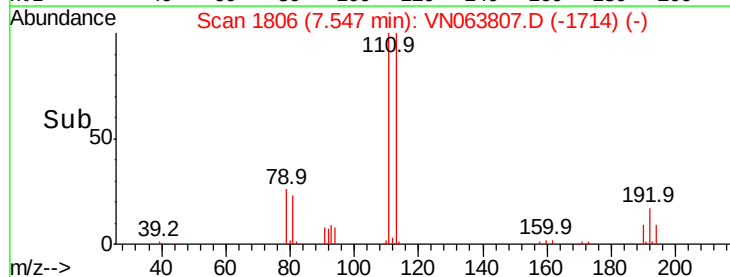
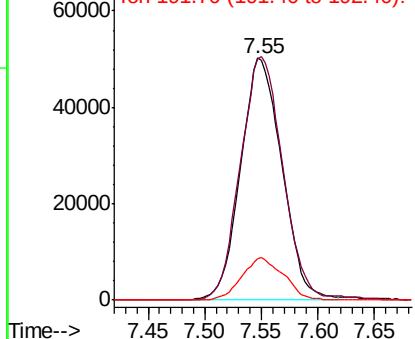


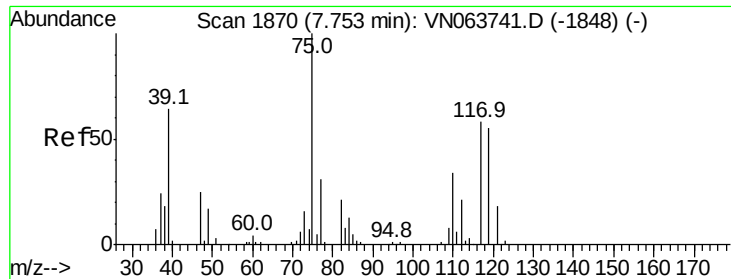
#35
 Dibromofluoromethane
 Concen: 50.057 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN063807.D
 Acq: 2 Oct 2020 6:32

Tgt Ion:113 Resp: 127472
 Ion Ratio Lower Upper
 113 100
 111 104.0 81.8 122.8
 192 17.6 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

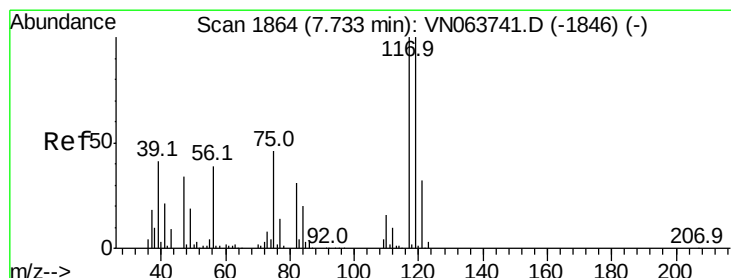
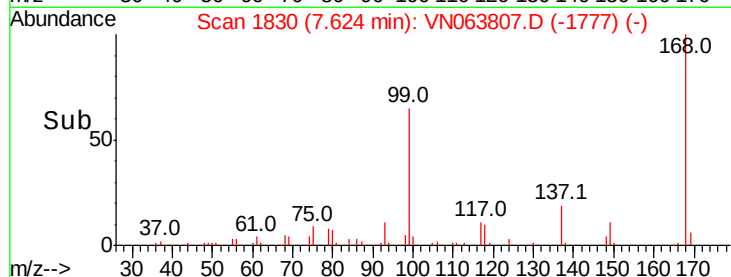
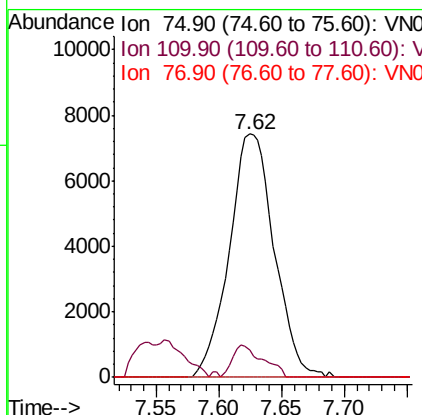
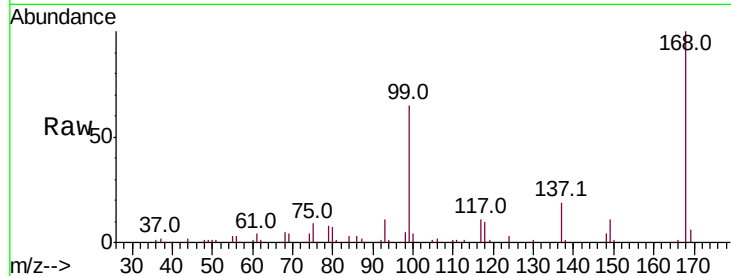




#36
 1,1-Dichloropropene
 Concen: 4.979 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063807.D
 Acq: 2 Oct 2020 6:32

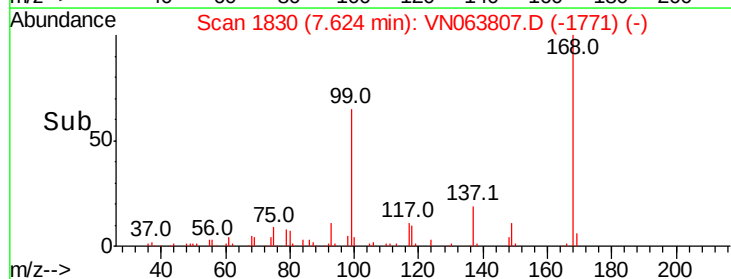
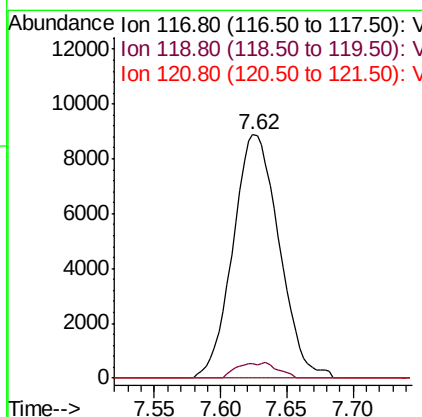
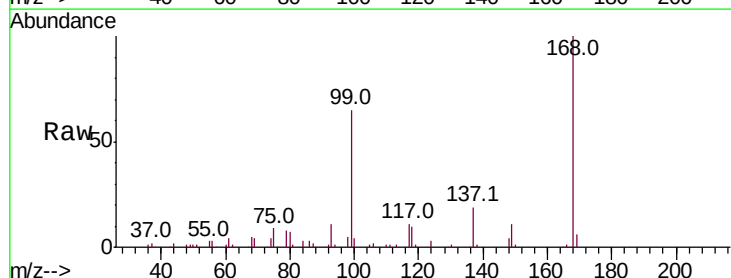
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4

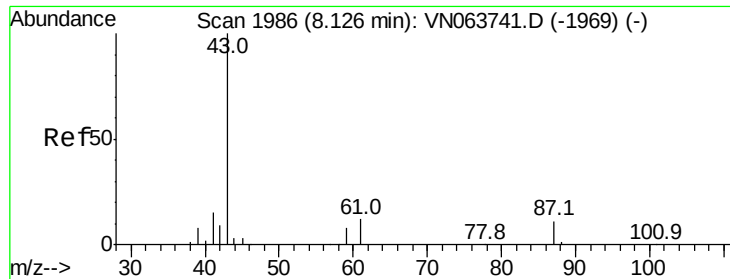
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.0	16.9	50.6#
77	0.0	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 5.157 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN063807.D
 Acq: 2 Oct 2020 6:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	80.1	120.1#
121	0.0	25.7	38.5#





#43

Isopropyl Acetate

Concen: 0.959 ug/l

RT: 8.27 min Scan# 2030

Delta R.T. 0.14 min

Lab File: VN063807.D

Acq: 2 Oct 2020 6:32

Instrument :

MSVOA_N

ClientSampled :

MW-4

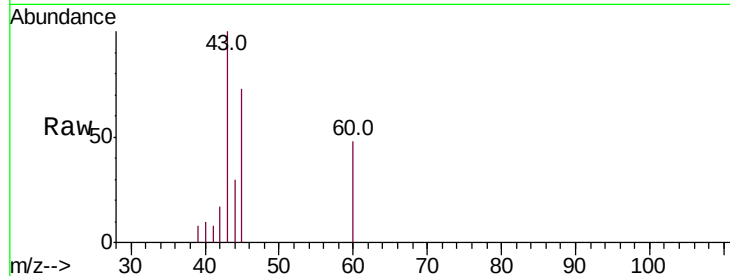
Tot Ion: 43 Resp: 5842

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

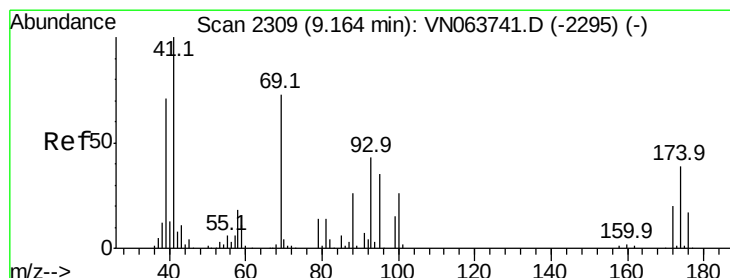
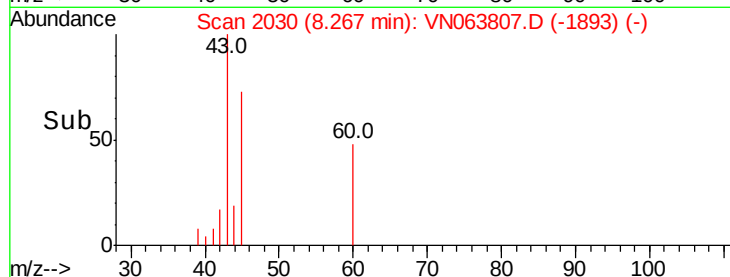
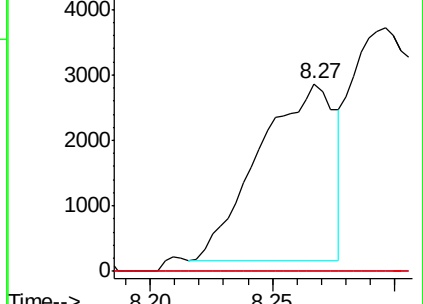
87 0.0 9.0 13.6#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO



#49

1,4-Dioxane

Concen: 26.903 ug/l

RT: 9.17 min Scan# 2311

Delta R.T. 0.01 min

Lab File: VN063807.D

Acq: 2 Oct 2020 6:32

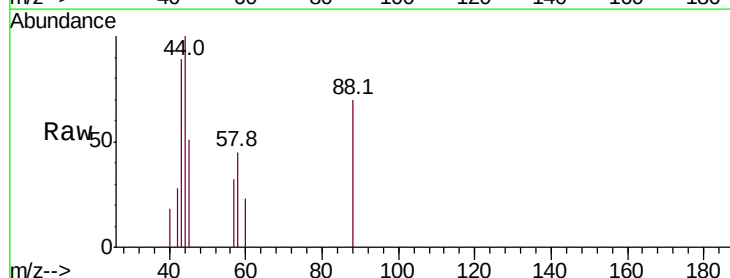
Tgt Ion: 88 Resp: 1151

Ion Ratio Lower Upper

88 100

43 36.2 33.1 49.7

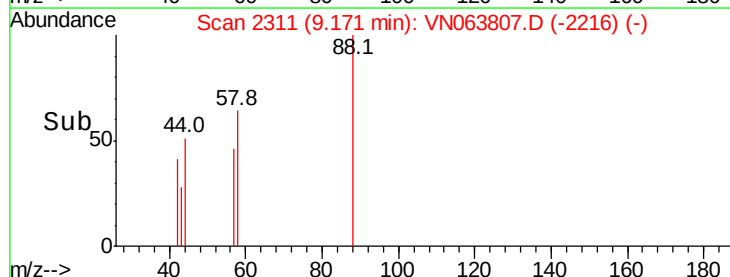
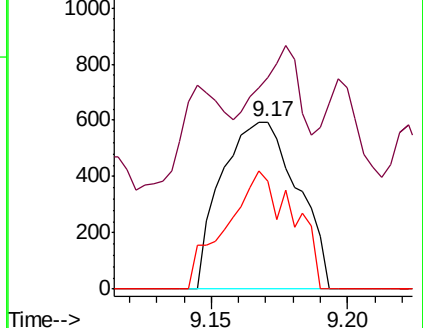
58 62.4 58.9 88.3

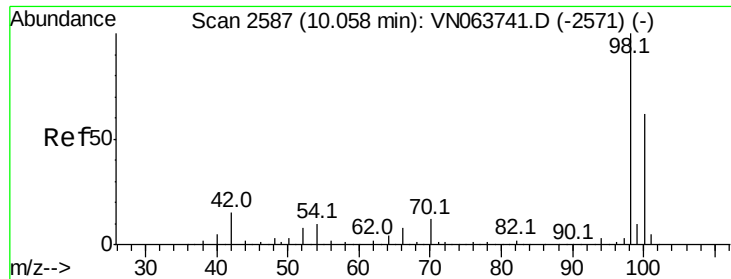


Abundance Ion 88.00 (87.70 to 88.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#50

Toluene-d8

Concen: 48.874 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063807.D

Acq: 2 Oct 2020 6:32

Instrument :

MSVOA_N

ClientSampled :

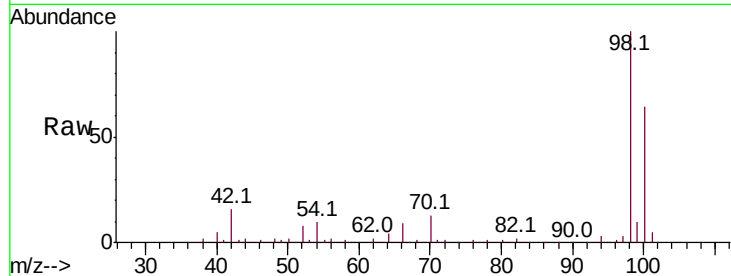
MW-4

Tot Ion: 98 Resp: 471814

Ion Ratio Lower Upper

98 100

100 62.7 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

300000

250000

200000

150000

100000

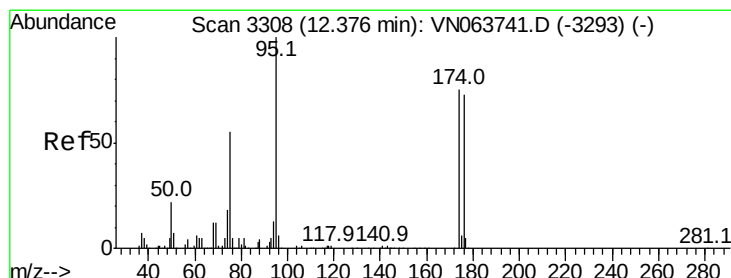
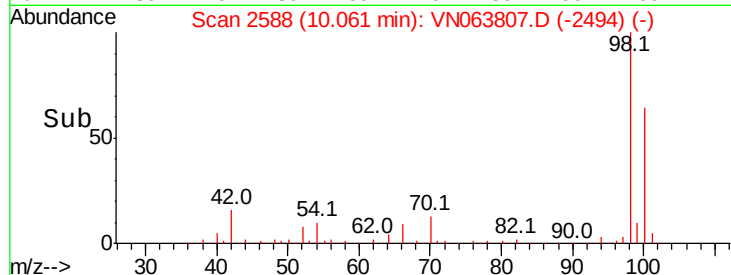
50000

0

10.06

10.10

Time-->



#62

4-Bromofluorobenzene

Concen: 49.837 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063807.D

Acq: 2 Oct 2020 6:32

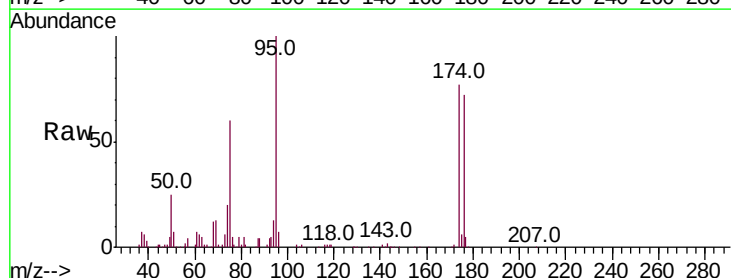
Tgt Ion: 95 Resp: 180854

Ion Ratio Lower Upper

95 100

174 75.5 0.0 150.6

176 71.5 0.0 145.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

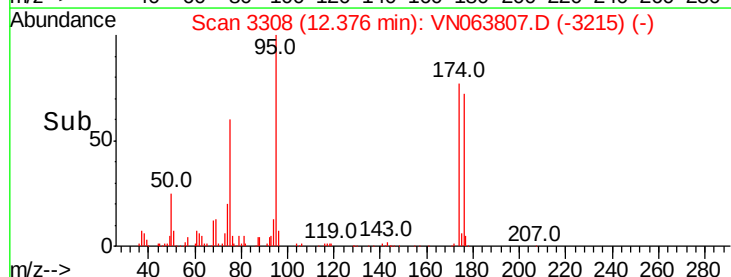
100000

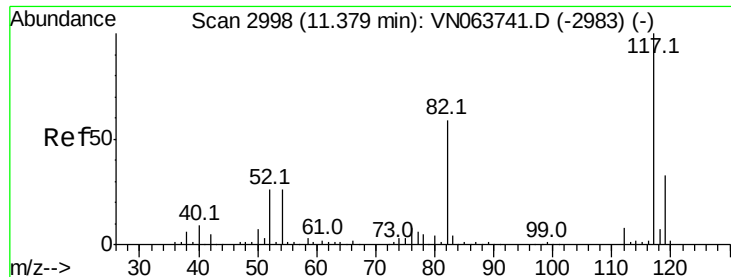
12.38

12.40

12.50

Time-->

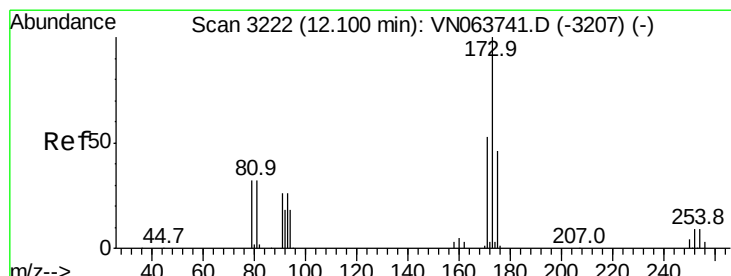
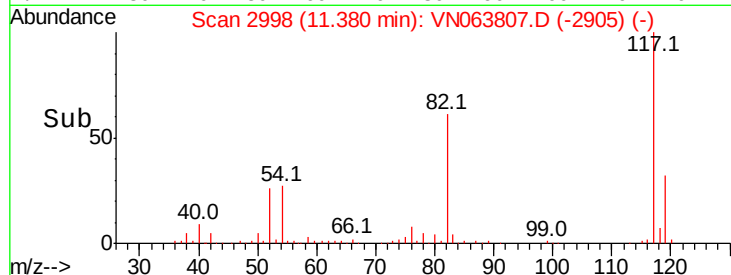
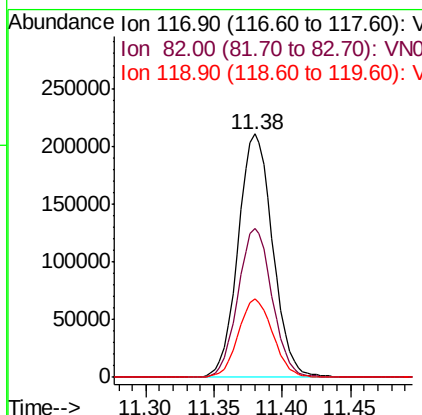
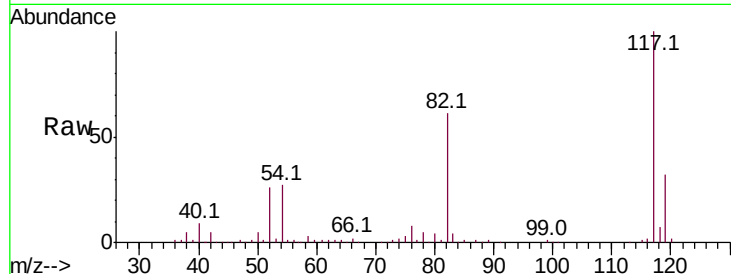




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063807.D
Acq: 2 Oct 2020 6:32

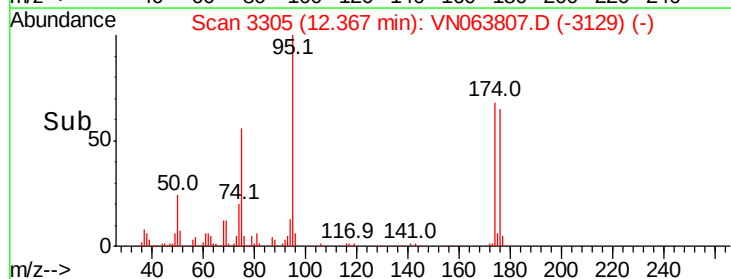
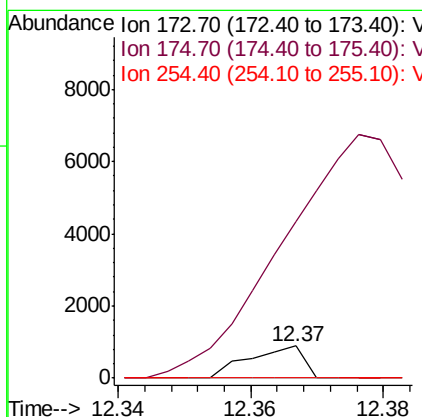
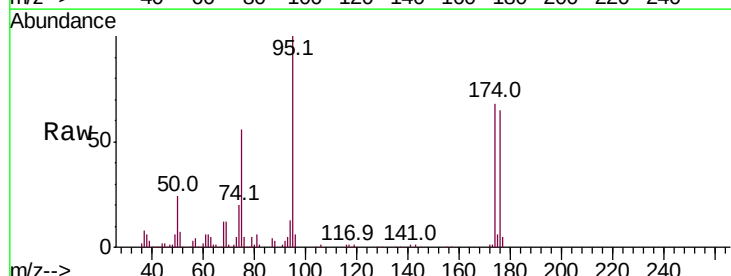
Instrument :
MSVOA_N
ClientSampled :
MW-4

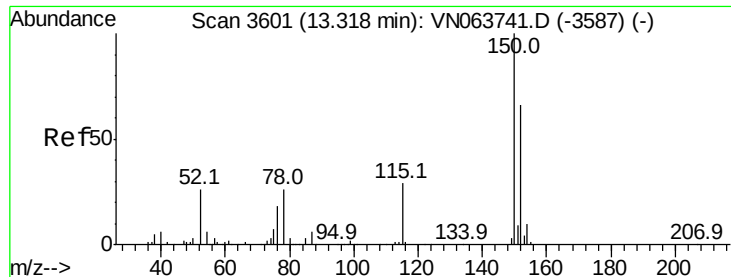
Tot Ion:117 Resp: 371214
Ion Ratio Lower Upper
117 100
82 61.4 47.4 71.2
119 32.0 26.4 39.6



#71
Bromoform
Concen: 0.227 ug/l
RT: 12.37 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN063807.D
Acq: 2 Oct 2020 6:32

Tgt Ion:173 Resp: 507
Ion Ratio Lower Upper
173 100
175 1807.1 23.5 70.5#
254 0.0 0.0 0.0

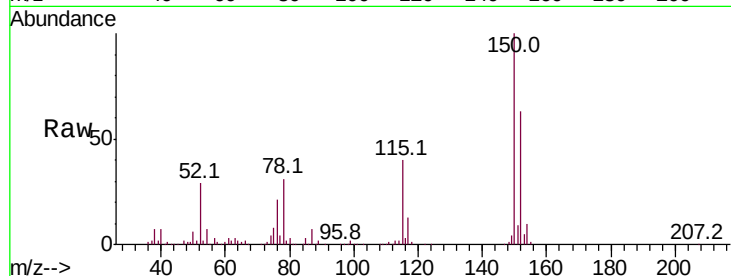




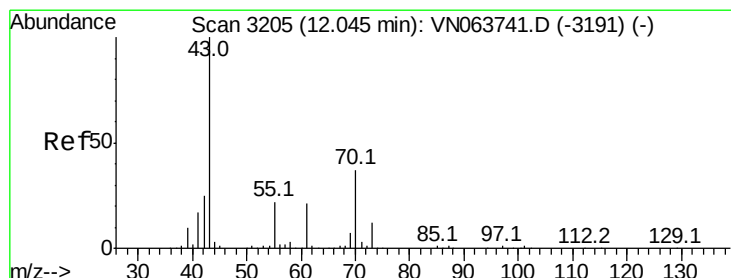
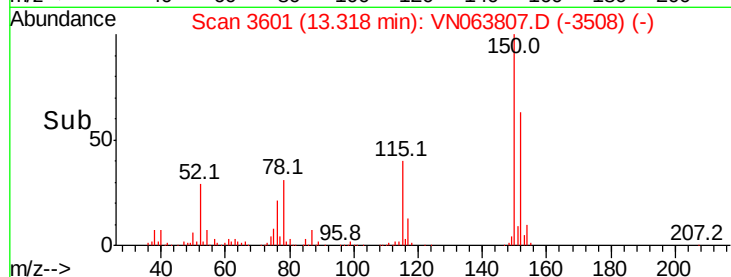
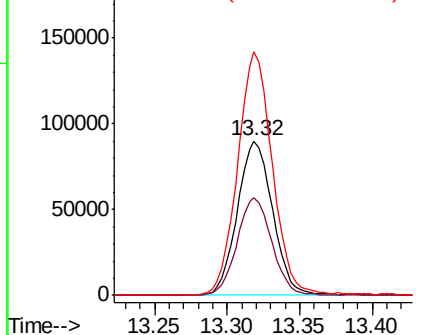
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.32 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VN063807.D
 Acq: 2 Oct 2020 6:32

Instrument :
 MSVOA_N
 ClientSampled :
 MW-4

Tot Ion:152 Resp: 152267
 Ion Ratio Lower Upper
 152 100
 115 62.6 31.3 93.8
 150 155.7 0.0 341.8

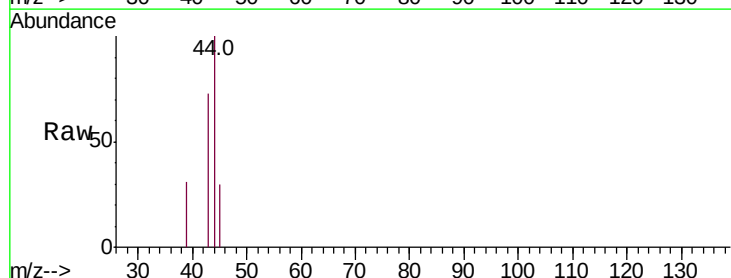


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

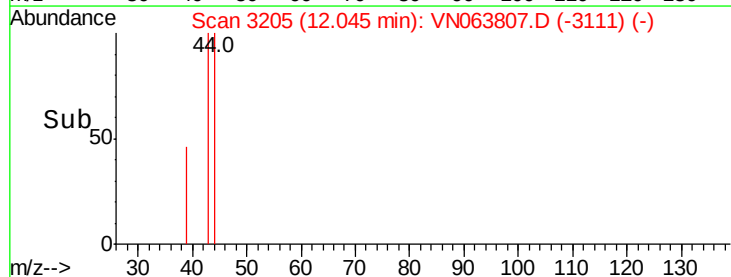
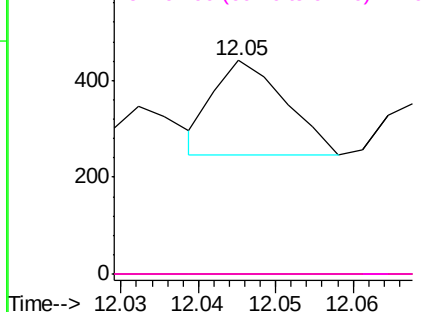


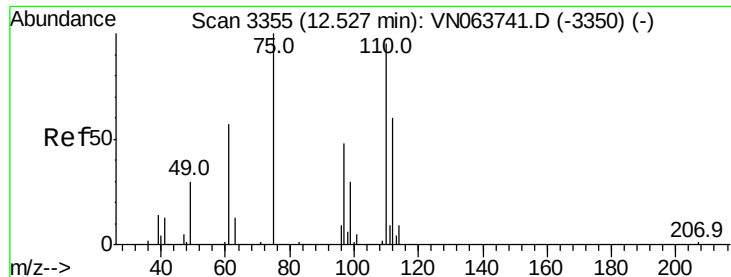
#74
 N-ethyl acetate
 Concen: 2.239 ug/l
 RT: 12.05 min Scan# 3205
 Delta R.T. 0.00 min
 Lab File: VN063807.D
 Acq: 2 Oct 2020 6:32

Tgt Ion: 43 Resp: 124
 Ion Ratio Lower Upper
 43 100
 70 0.0 29.8 44.8#
 55 0.0 17.9 26.9#
 61 0.0 17.0 25.4#



Abundance Ion 43.00 (42.70 to 43.70): V
 Ion 70.00 (69.70 to 70.70): V
 Ion 55.00 (54.70 to 55.70): V
 Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 31.278 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063807.D

Acq: 2 Oct 2020 6:32

Instrument :

MSVOA_N

ClientSampleId :

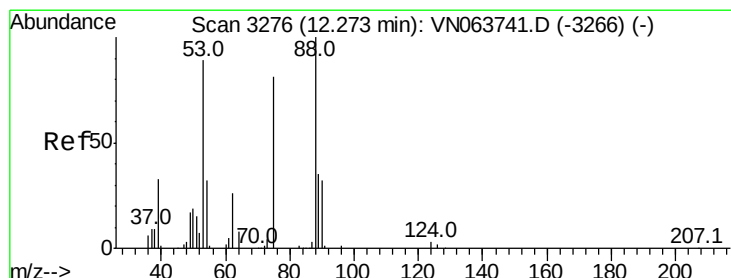
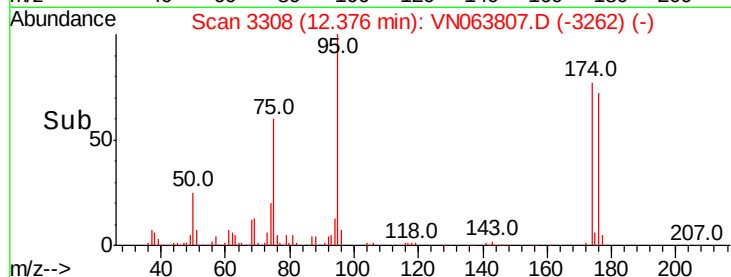
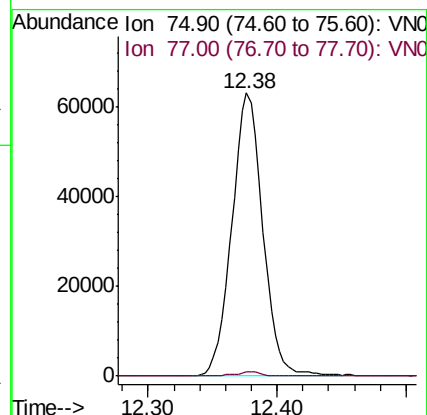
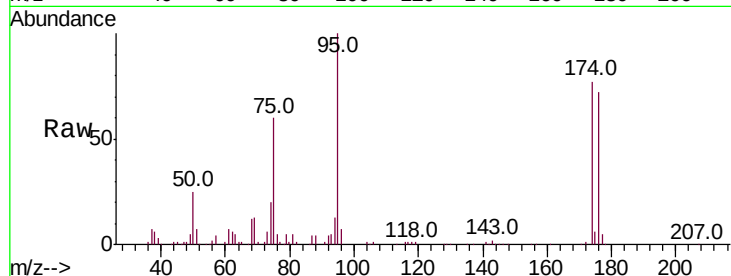
MW-4

Tot Ion: 75 Resp: 104988

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 90.087 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063807.D

Acq: 2 Oct 2020 6:32

Tgt Ion: 75 Resp: 104988

Ion Ratio Lower Upper

75 100

53 0.0 88.2 132.2#

89 0.0 36.0 54.0#

