

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101220\
 Data File : VN064086.D
 Acq On : 12 Oct 2020 18:38
 Operator : JC/MD
 Sample : L4300-02 100X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 223

Quant Time: Oct 13 01:09:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	222429	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	411268	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	417227	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	166728	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	184523	50.21	ug/l	0.00
Spiked Amount			Recovery	=	100.42%	
35) Dibromofluoromethane	7.55	113	137624	48.23	ug/l	0.00
Spiked Amount			Recovery	=	96.46%	
50) Toluene-d8	10.06	98	520763	48.14	ug/l	0.00
Spiked Amount			Recovery	=	96.28%	
62) 4-Bromofluorobenzene	12.38	95	205502	50.53	ug/l	0.00
Spiked Amount			Recovery	=	101.06%	

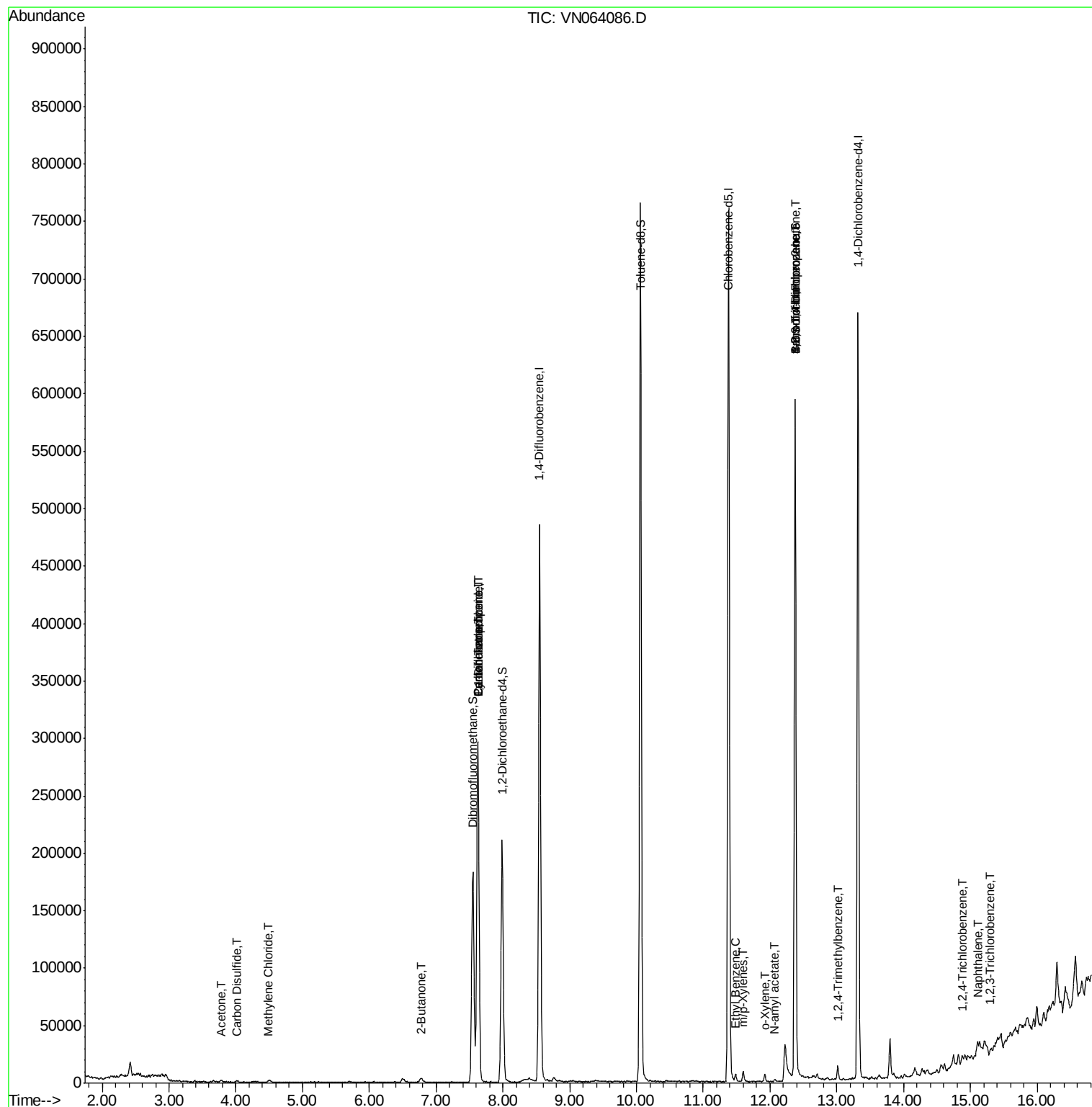
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.77	43	936	0.827	ug/l	96
17) Carbon Disulfide	4.01	76	1083	0.877	ug/l #	76
20) Methylene Chloride	4.50	84	373	0.242	ug/l #	40
25) 2-Butanone	6.78	43	434	0.271	ug/l #	51
31) Cyclohexane	7.63	56	5994	1.405	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	19538	4.689	ug/l #	46
38) Carbon Tetrachloride	7.63	117	24862	5.321	ug/l #	14
67) Ethyl Benzene	11.49	91	3924	0.252	ug/l	95
68) m/p-Xylenes	11.60	106	2858	0.492	ug/l	99
69) o-Xylene	11.92	106	2048	0.378	ug/l	87
71) Bromoform	12.37	173	999	0.398	ug/l #	1
74) N-amyl acetate	12.06	43	329	2.272	ug/l #	27
76) 1,2,3-Trichloropropane	12.38	75	112680	30.658	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	112680	88.301	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.01	105	5578	0.548	ug/l	94
93) 1,2,4-Trichlorobenzene	14.89	180	218	1.809	ug/l #	1
95) Naphthalene	15.11	128	11051	3.106	ug/l	97
96) 1,2,3-Trichlorobenzene	15.29	180	220	1.644	ug/l #	69

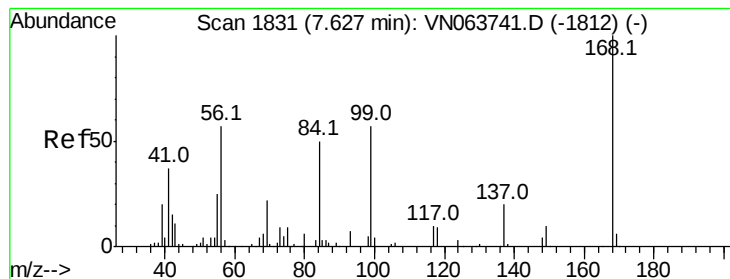
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064086.D

Acq: 12 Oct 2020 18:38

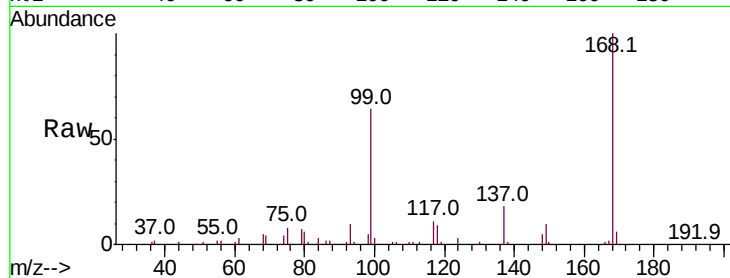
Instrument :
MSVOA_N
ClientSampled :
223

Tot Ion:168 Resp: 222429

Ion Ratio Lower Upper

168 100

99 63.5 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

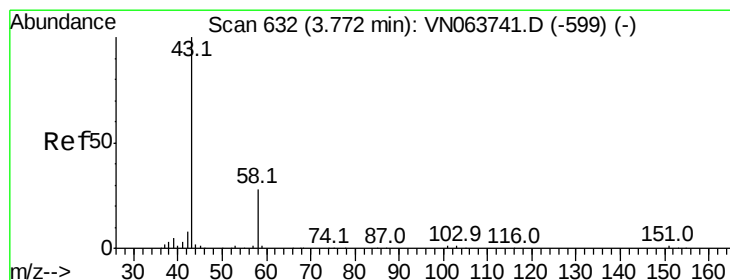
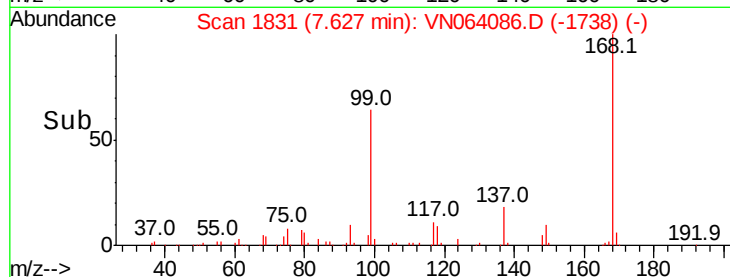
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 0.827 ug/l

RT: 3.77 min Scan# 632

Delta R.T. 0.00 min

Lab File: VN064086.D

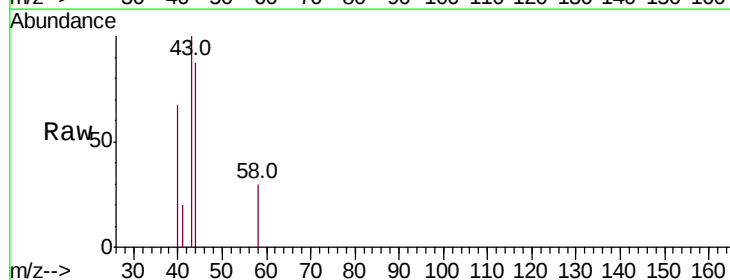
Acq: 12 Oct 2020 18:38

Tgt Ion: 43 Resp: 936

Ion Ratio Lower Upper

43 100

58 30.0 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.77

1000

800

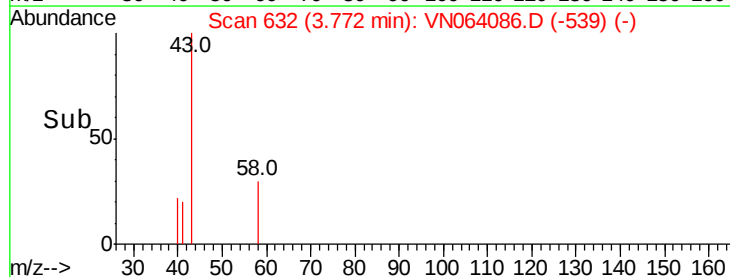
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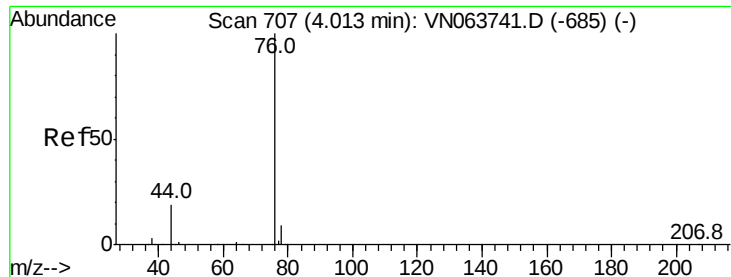
400

200

0

Time--> 3.74 3.76 3.78





#17

Carbon Disulfide

Concen: 0.877 ug/l

RT: 4.01 min Scan# 706

Delta R.T. -0.00 min

Lab File: VN064086.D

Acq: 12 Oct 2020 18:38

Instrument :

MSVOA_N

ClientSampled :

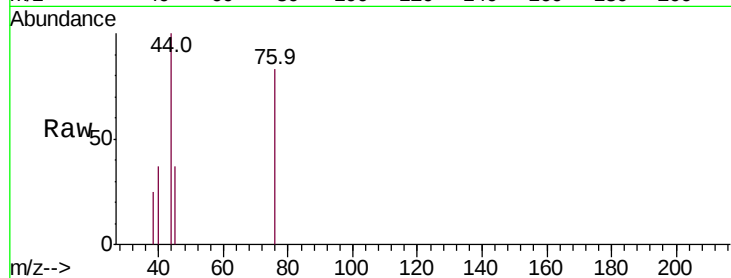
223

Tot Ion: 76 Resp: 1083

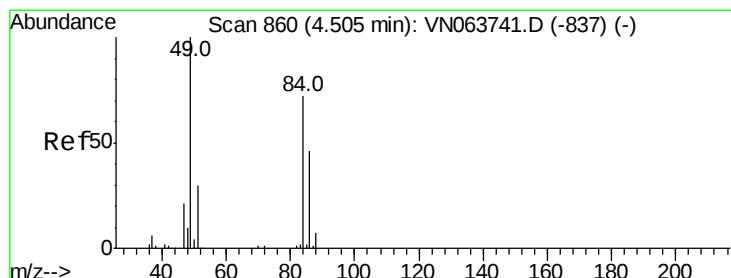
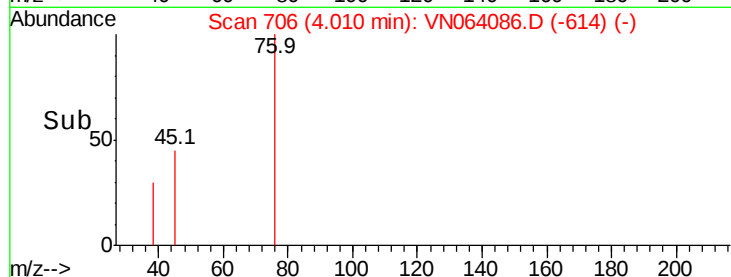
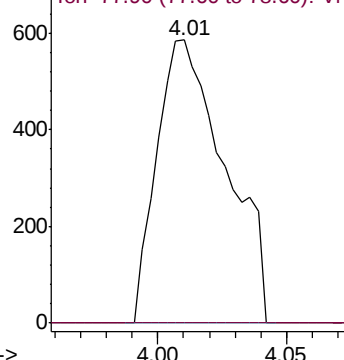
Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN063741.D (-685) (-)



#20

Methylene Chloride

Concen: 0.242 ug/l

RT: 4.50 min Scan# 857

Delta R.T. -0.01 min

Lab File: VN064086.D

Acq: 12 Oct 2020 18:38

Tgt Ion: 84 Resp: 373

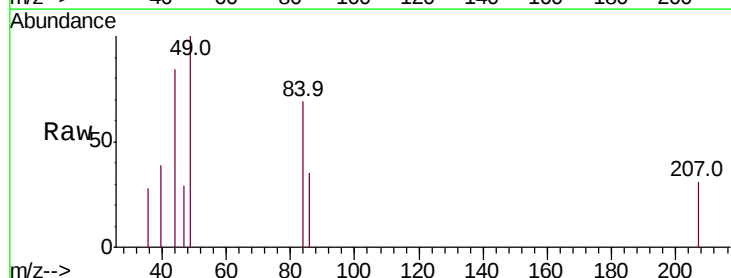
Ion Ratio Lower Upper

84 100

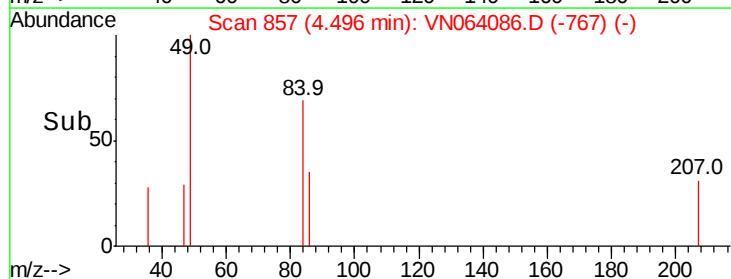
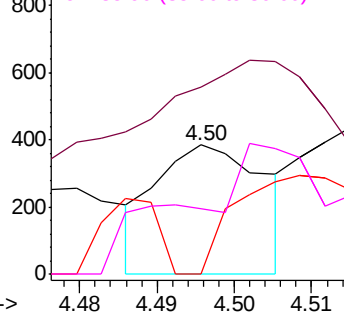
49 75.7 110.4 165.6#

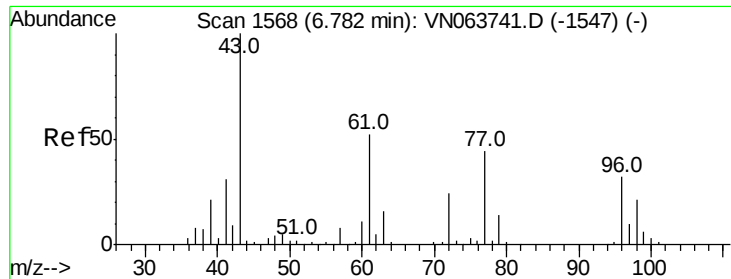
51 0.0 33.3 49.9#

86 5.1 50.7 76.1#



Abundance Ion 83.90 (83.60 to 84.60): VN063741.D (-837) (-)

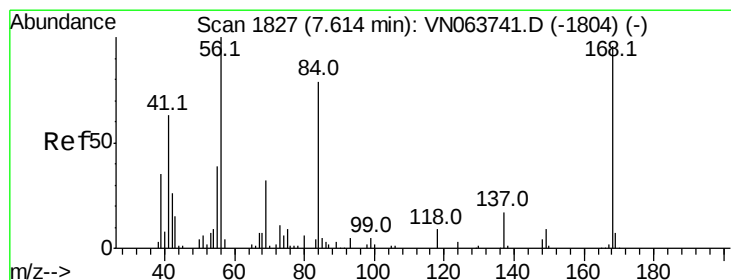
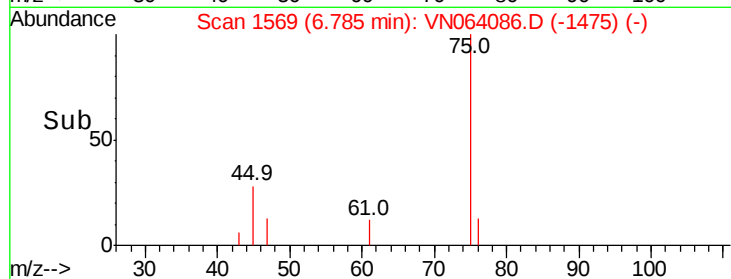
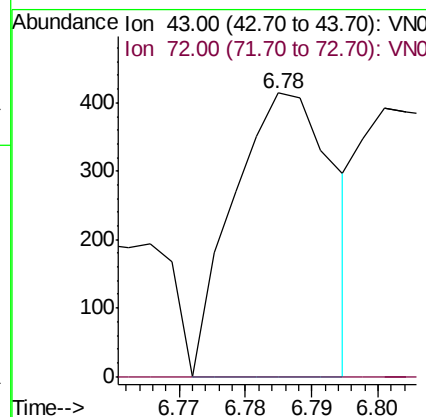
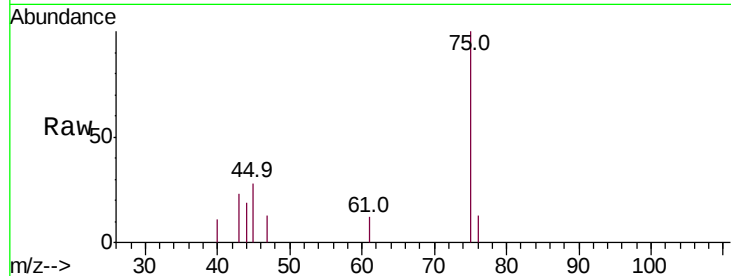




#25
2-Butanone
Concen: 0.271 ug/l
RT: 6.78 min Scan# 1569
Delta R.T. 0.00 min
Lab File: VN064086.D
Acq: 12 Oct 2020 18:38

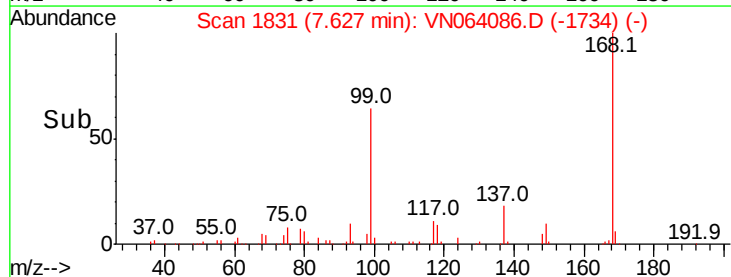
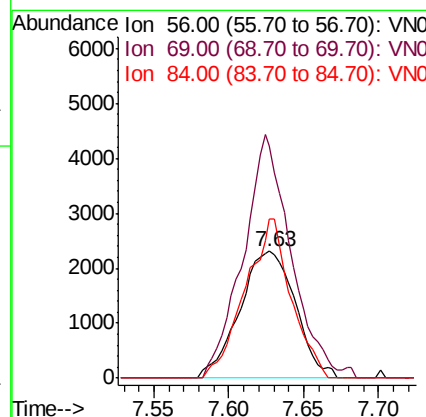
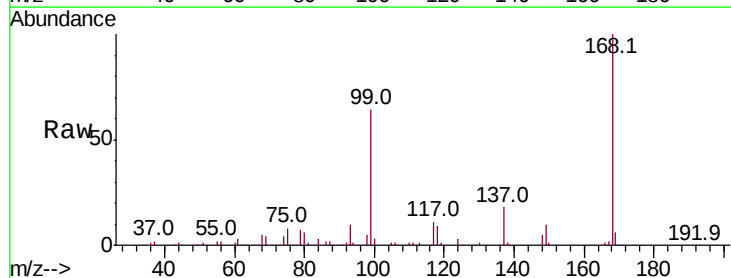
Instrument :
MSVOA_N
ClientSampled :
223

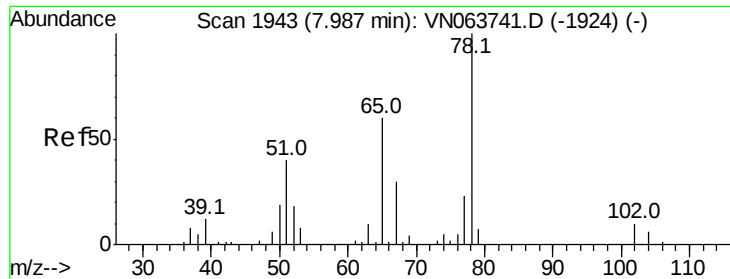
Tot Ion: 43 Resp: 434
Ion Ratio Lower Upper
43 100
72 0.0 19.3 28.9#



#31
Cyclohexane
Concen: 1.405 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN064086.D
Acq: 12 Oct 2020 18:38

Tgt Ion: 56 Resp: 5994
Ion Ratio Lower Upper
56 100
69 183.0 25.4 38.2#
84 125.5 63.3 94.9#

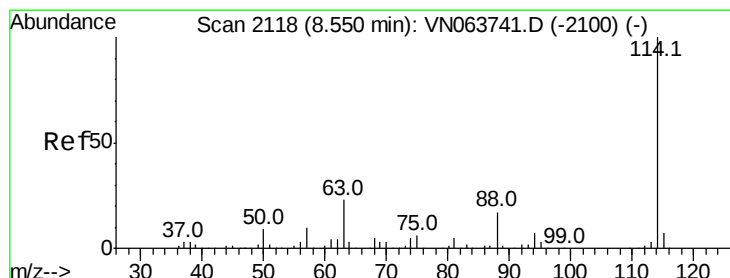
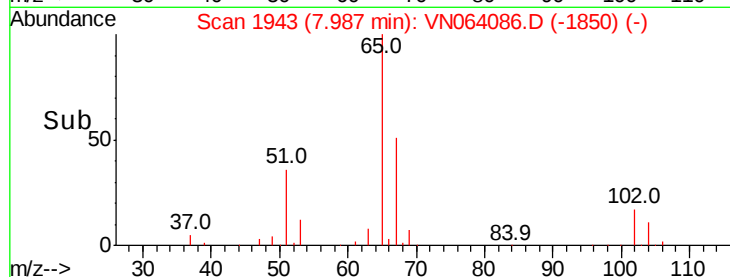
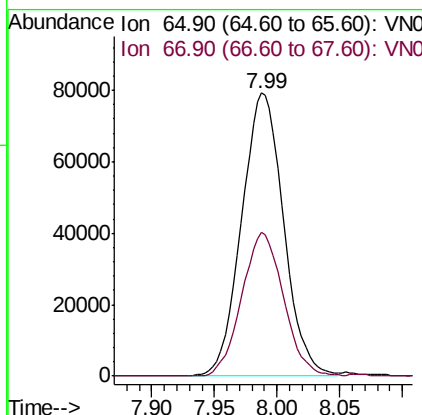
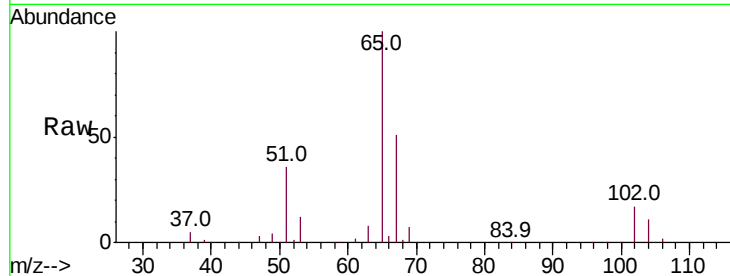




#33
 1,2-Dichloroethane-d4
 Concen: 50.215 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064086.D
 Acq: 12 Oct 2020 18:38

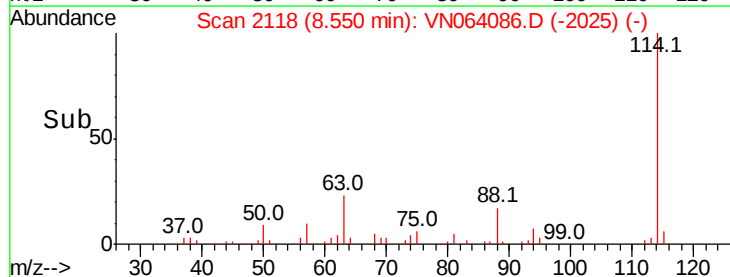
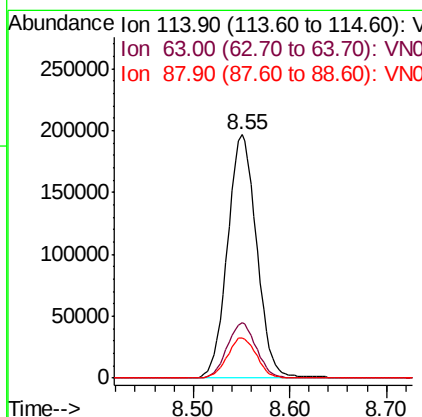
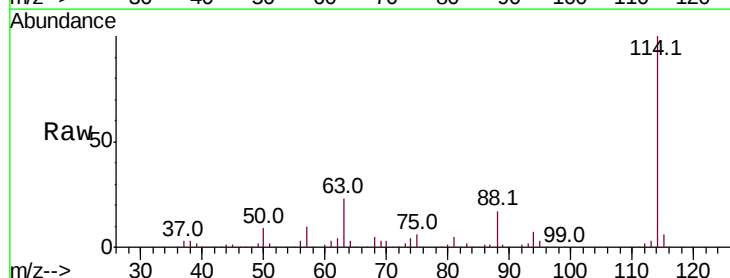
Instrument :
 MSVOA_N
 ClientSampleId :
 223

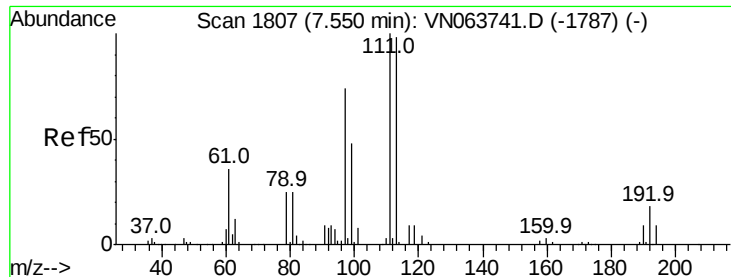
Tot Ion: 65 Resp: 184523
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 99.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064086.D
 Acq: 12 Oct 2020 18:38

Tgt Ion: 114 Resp: 411268
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 45.0
 88 16.5 0.0 34.0

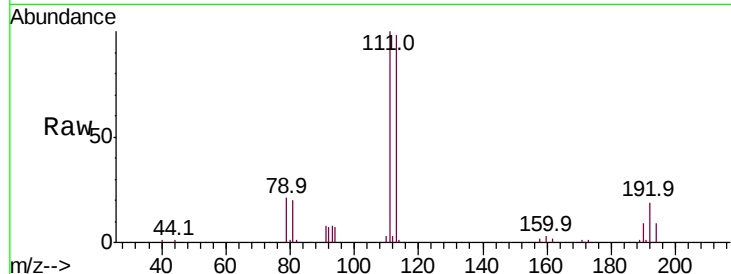




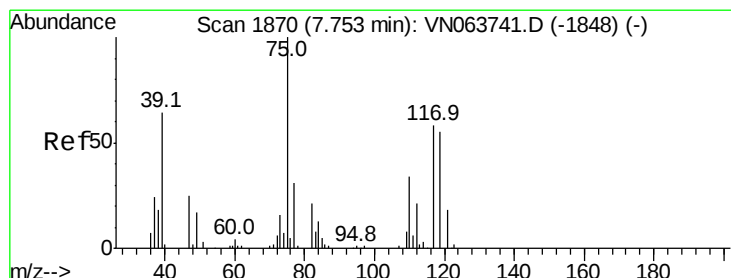
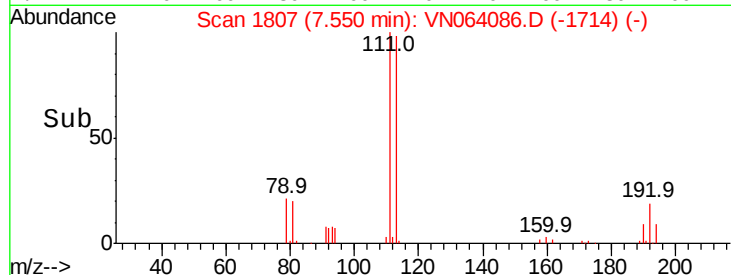
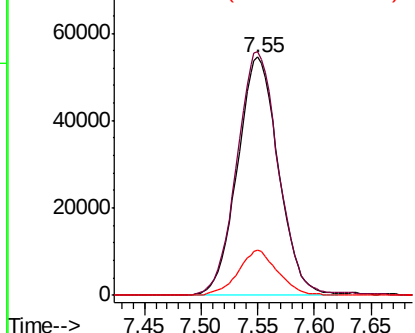
#35
 Dibromofluoromethane
 Concen: 48.227 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064086.D
 Acq: 12 Oct 2020 18:38

Instrument :
 MSVOA_N
 ClientSampleId :
 223

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.8	122.8
192	18.2	14.2	21.2

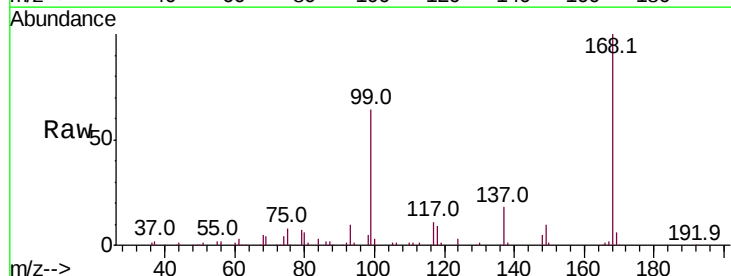


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

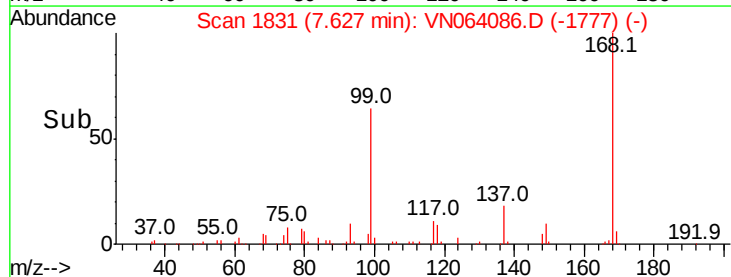
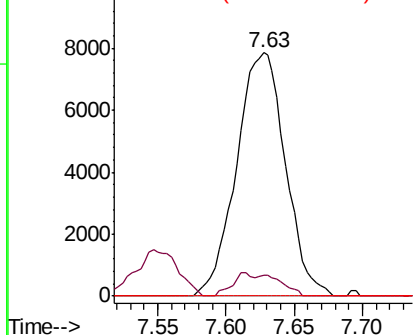


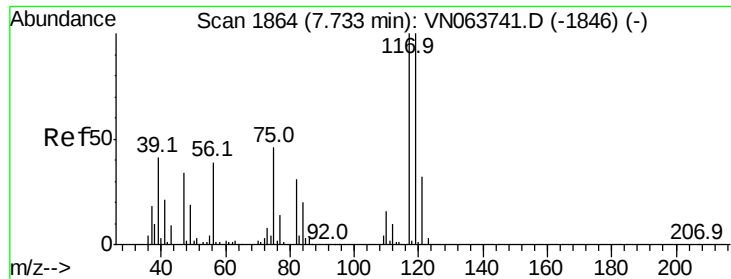
#36
 1,1-Dichloropropene
 Concen: 4.689 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064086.D
 Acq: 12 Oct 2020 18:38

Tgt Ion	Ratio	Lower	Upper
75	100		
110	4.2	16.9	50.6#
77	0.0	24.5	36.7#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO

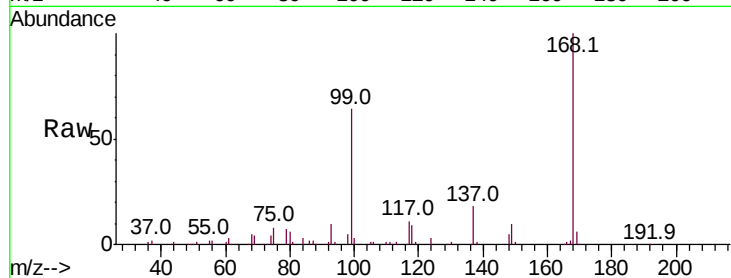




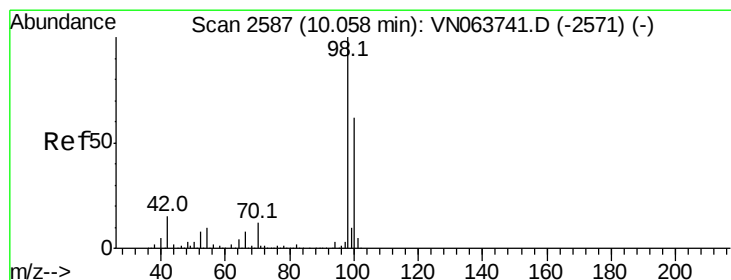
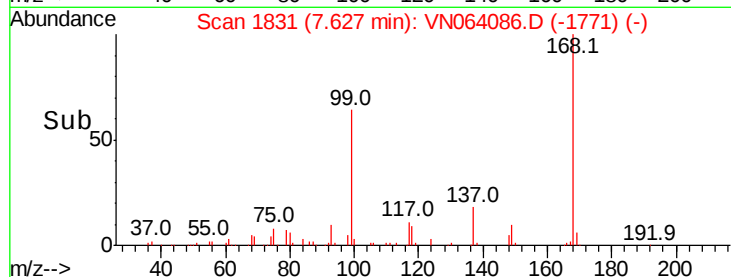
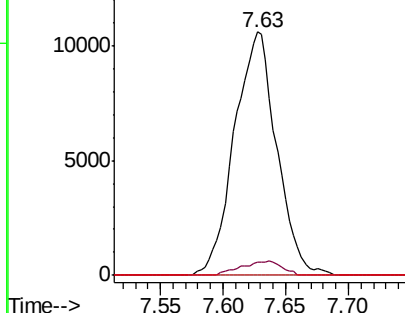
#38
Carbon Tetrachloride
Concen: 5.321 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN064086.D
Acq: 12 Oct 2020 18:38

Instrument :
MSVOA_N
ClientSampled :
223

Tot Ion:117 Resp: 24862
Ion Ratio Lower Upper
117 100
119 5.4 80.1 120.1#
121 0.0 25.7 38.5#

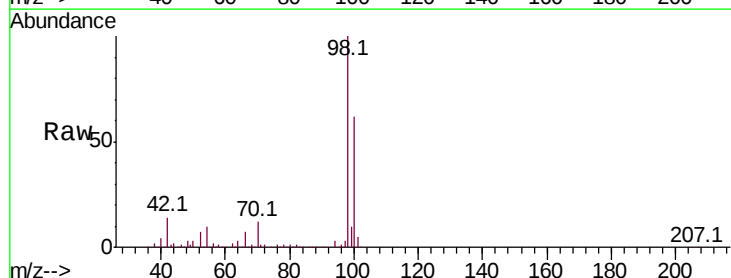


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

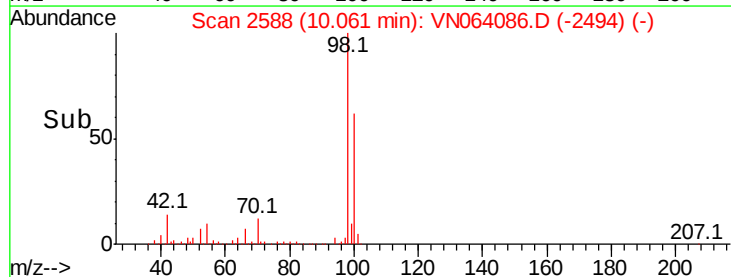
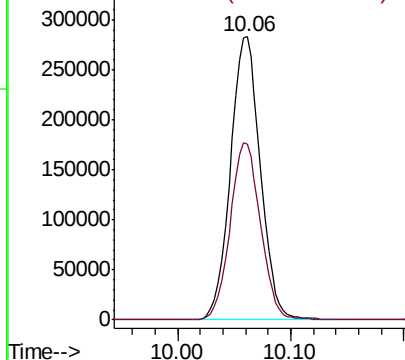


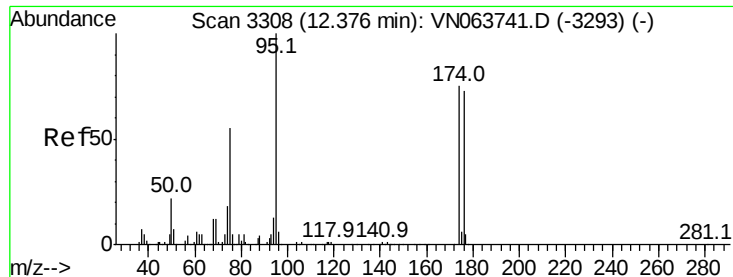
#50
Toluene-d8
Concen: 48.138 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN064086.D
Acq: 12 Oct 2020 18:38

Tgt Ion: 98 Resp: 520763
Ion Ratio Lower Upper
98 100
100 63.4 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN
Ion 100.00 (99.70 to 100.70): VN





#62

4-Bromofluorobenzene

Concen: 50.534 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064086.D

Acq: 12 Oct 2020 18:38

Instrument :

MSVOA_N

ClientSampleId :

223

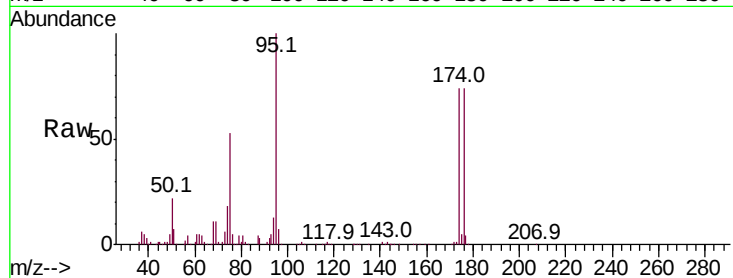
Tot Ion: 95 Resp: 205502

Ion Ratio Lower Upper

95 100

174 73.9 0.0 150.6

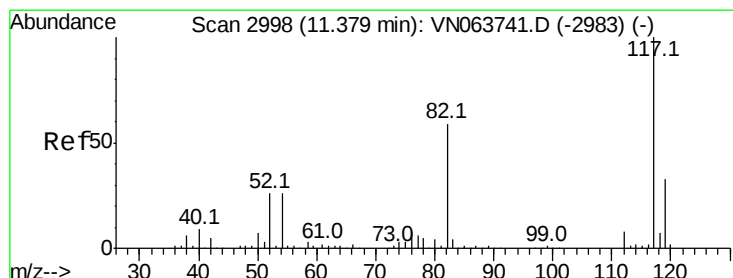
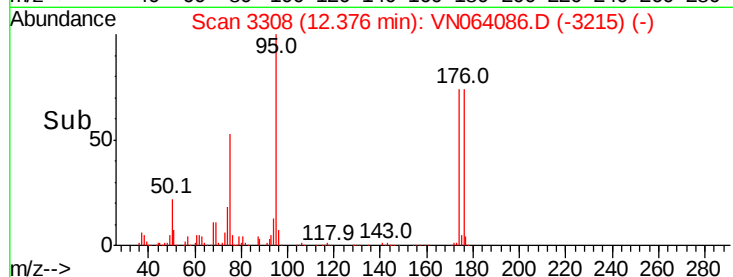
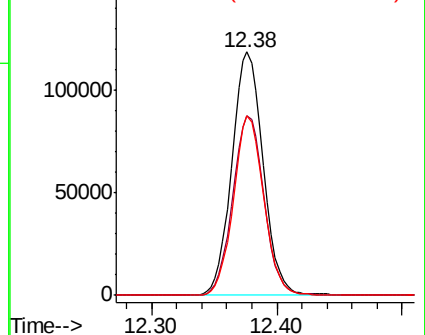
176 71.6 0.0 145.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064086.D

Acq: 12 Oct 2020 18:38

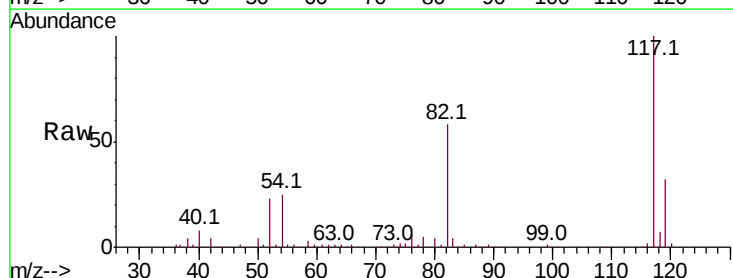
Tgt Ion: 117 Resp: 417227

Ion Ratio Lower Upper

117 100

82 57.9 47.4 71.2

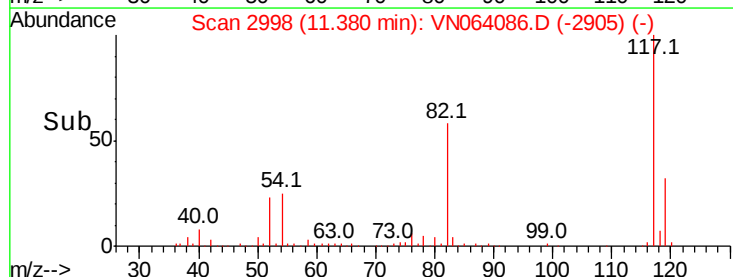
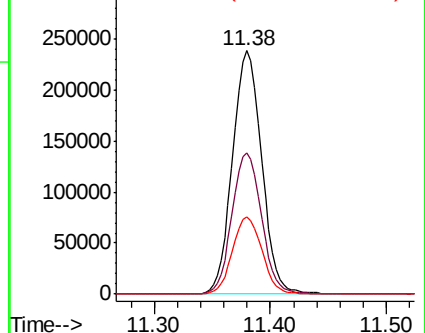
119 31.5 26.4 39.6

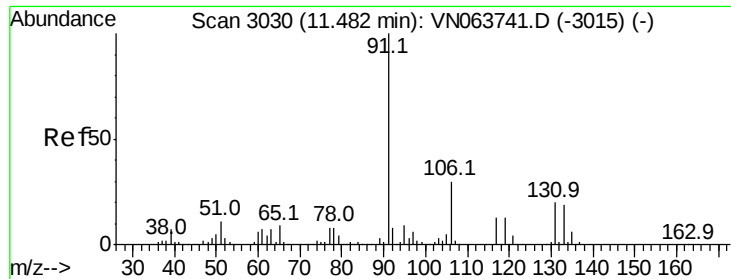


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

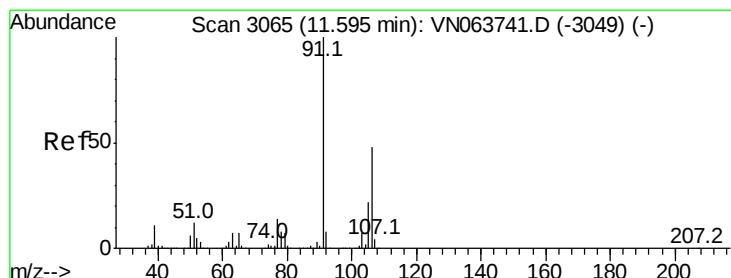
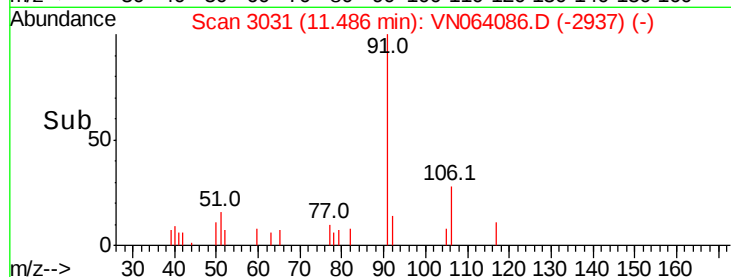
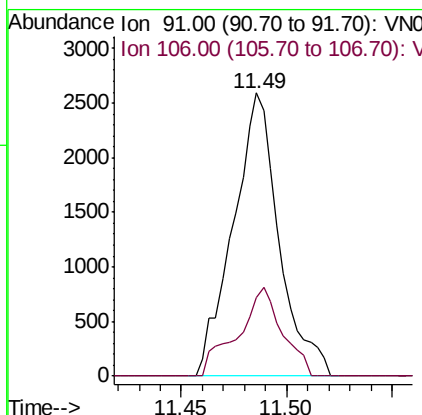
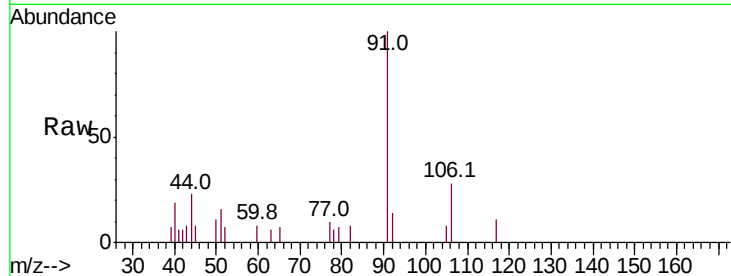




#67
Ethyl Benzene
Concen: 0.252 ug/l
RT: 11.49 min Scan# 3031
Delta R.T. 0.00 min
Lab File: VN064086.D
Acq: 12 Oct 2020 18:38

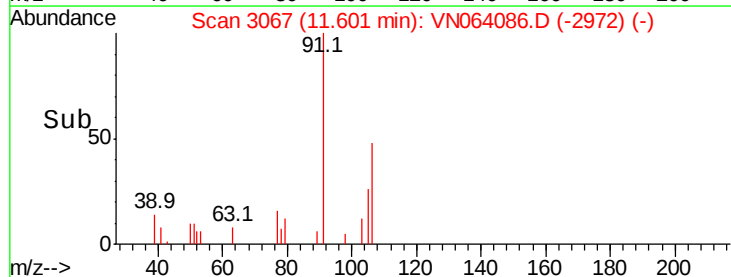
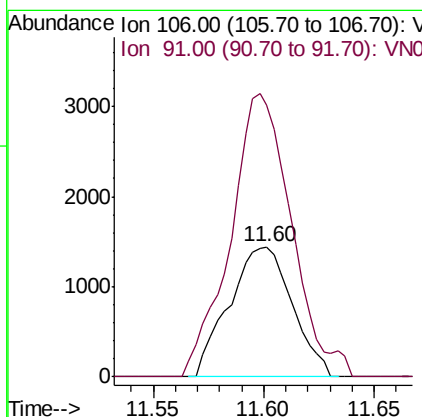
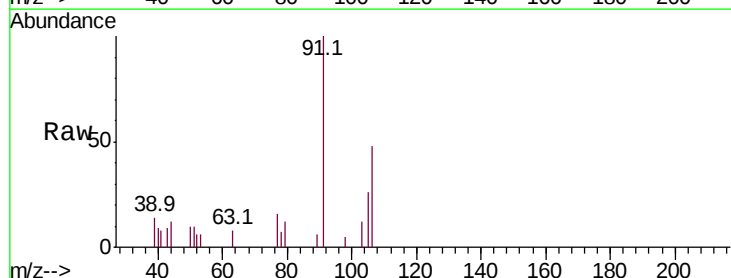
Instrument :
MSVOA_N
ClientSampled :
223

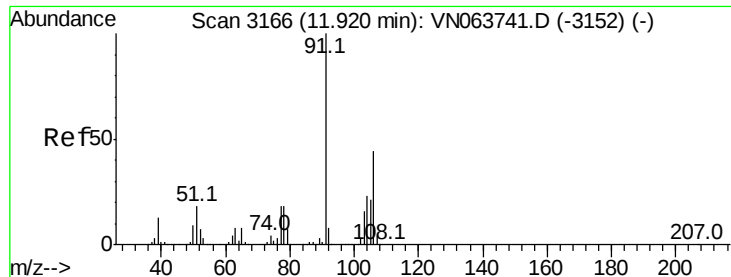
Tot Ion: 91 Resp: 3924
Ion Ratio Lower Upper
91 100
106 27.7 24.2 36.2



#68
m/p-Xylenes
Concen: 0.492 ug/l
RT: 11.60 min Scan# 3067
Delta R.T. 0.01 min
Lab File: VN064086.D
Acq: 12 Oct 2020 18:38

Tgt Ion: 106 Resp: 2858
Ion Ratio Lower Upper
106 100
91 211.1 168.0 252.0

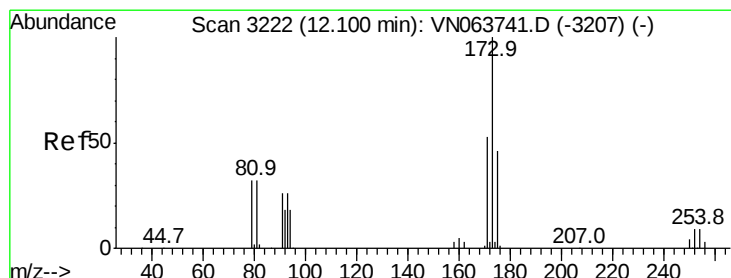
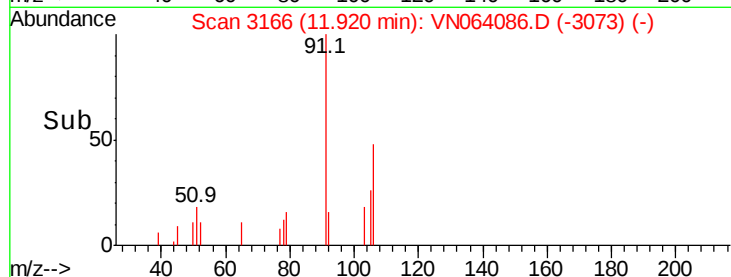
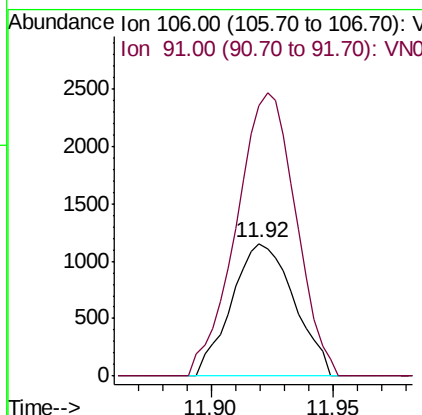
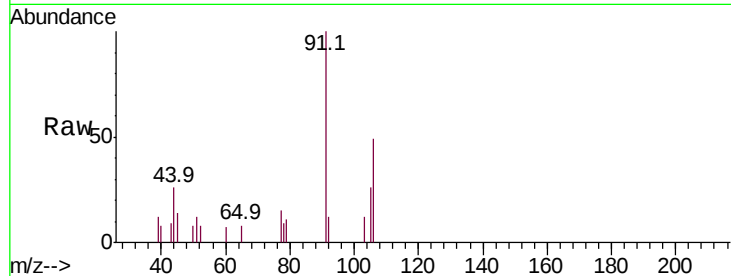




#69
o-Xylene
Concen: 0.378 ug/l
RT: 11.92 min Scan# 3166
Delta R.T. 0.00 min
Lab File: VN064086.D
Acq: 12 Oct 2020 18:38

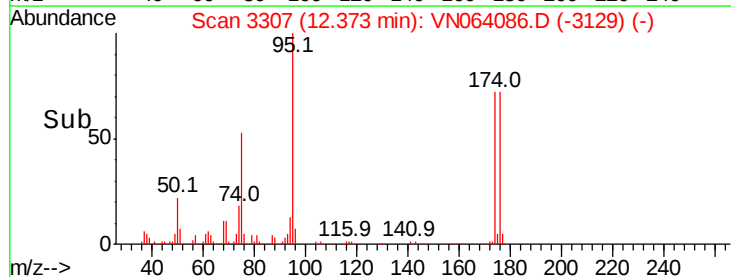
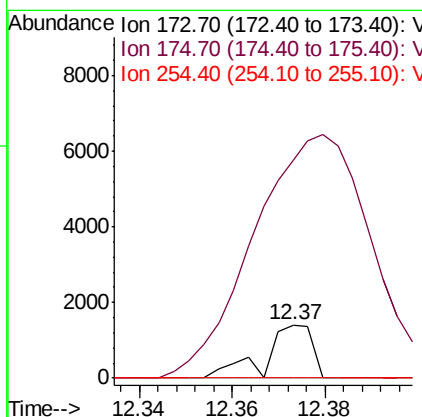
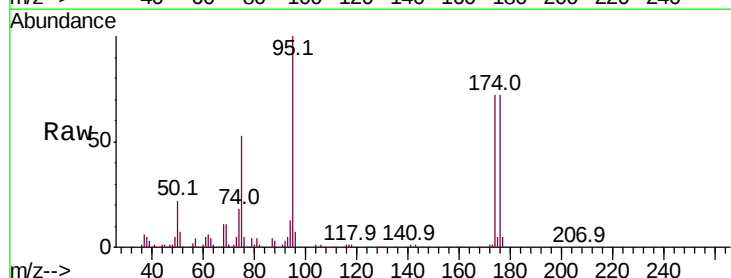
Instrument :
MSVOA_N
ClientSampled :
223

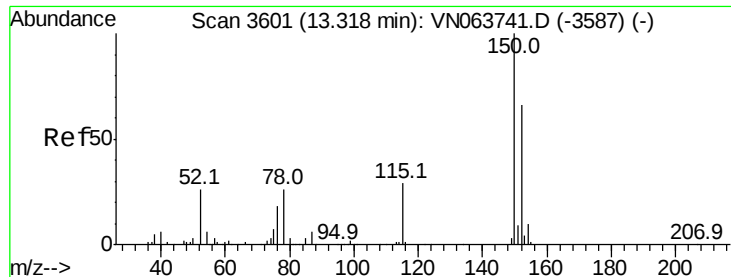
Tot Ion:106 Resp: 2048
Ion Ratio Lower Upper
106 100
91 203.4 112.7 338.0



#71
Bromoform
Concen: 0.398 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.27 min
Lab File: VN064086.D
Acq: 12 Oct 2020 18:38

Tgt Ion:173 Resp: 999
Ion Ratio Lower Upper
173 100
175 936.2 23.5 70.5#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064086.D

Acq: 12 Oct 2020 18:38

Instrument :

MSVOA_N

ClientSampleId :

223

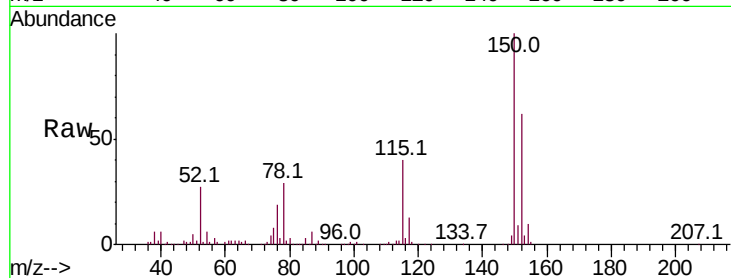
Tot Ion:152 Resp: 166728

Ion Ratio Lower Upper

152 100

115 63.7 31.3 93.8

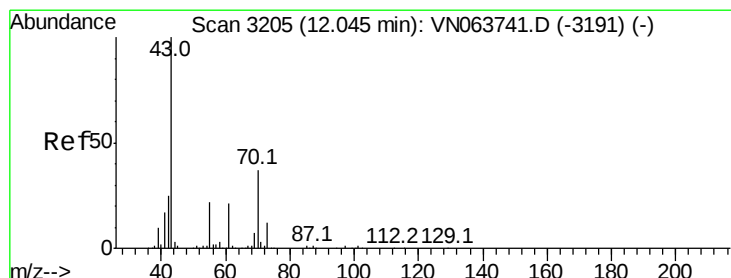
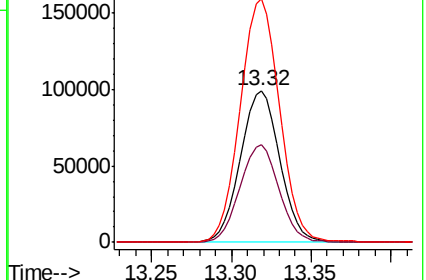
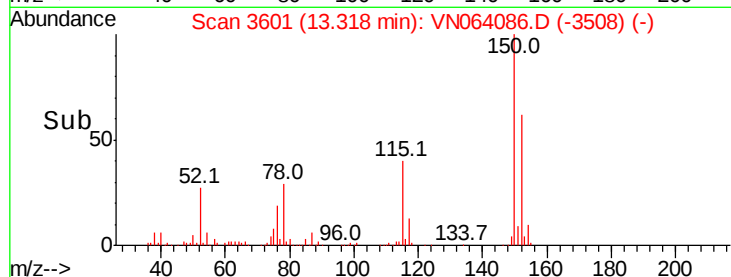
150 160.5 0.0 341.8



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: 2.272 ug/l

RT: 12.06 min Scan# 3211

Delta R.T. 0.02 min

Lab File: VN064086.D

Acq: 12 Oct 2020 18:38

Tgt Ion: 43 Resp: 329

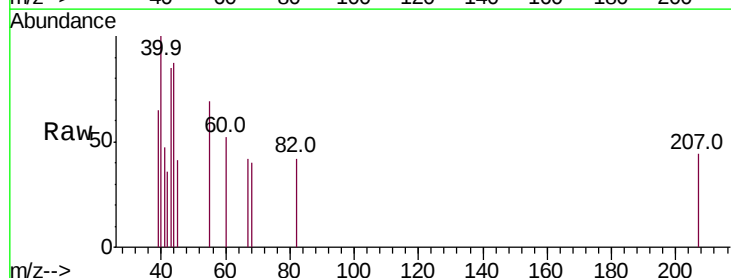
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 79.3 17.9 26.9#

61 0.0 17.0 25.4#

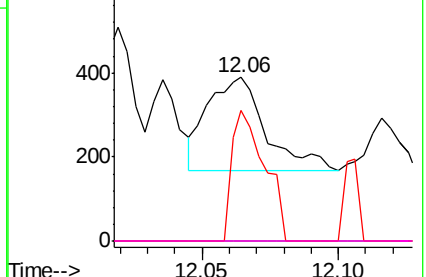
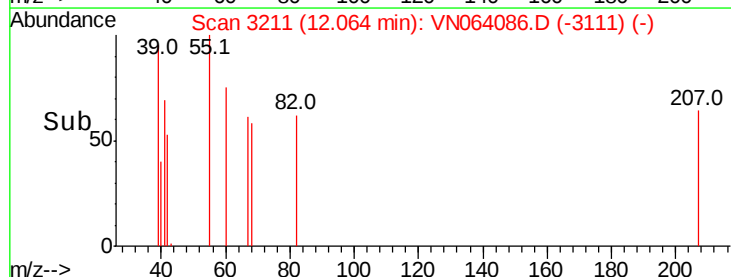


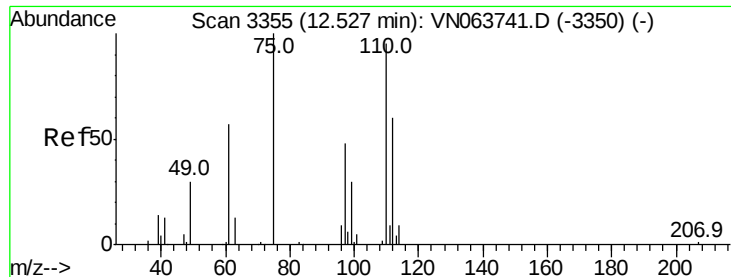
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#76

1,2,3-Trichloropropane

Concen: 30.658 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064086.D

Acq: 12 Oct 2020 18:38

Instrument :

MSVOA_N

ClientSampleId :

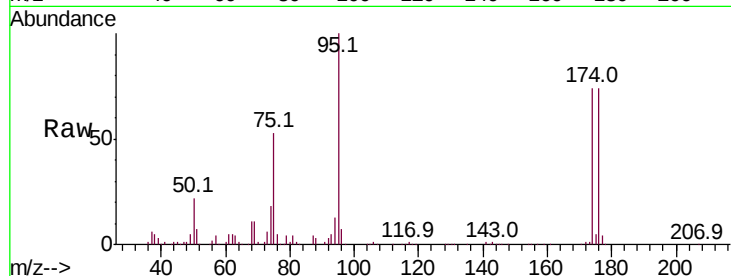
223

Tot Ion: 75 Resp: 112680

Ion Ratio Lower Upper

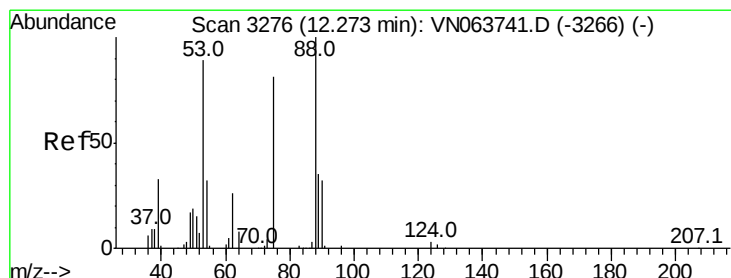
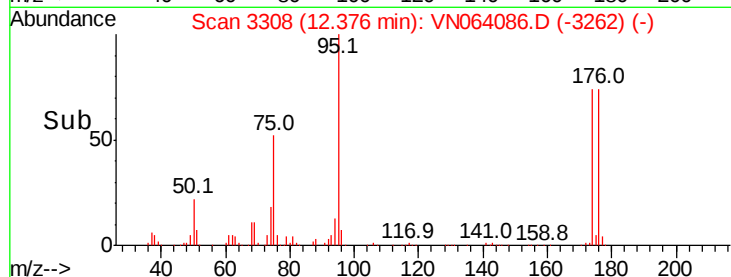
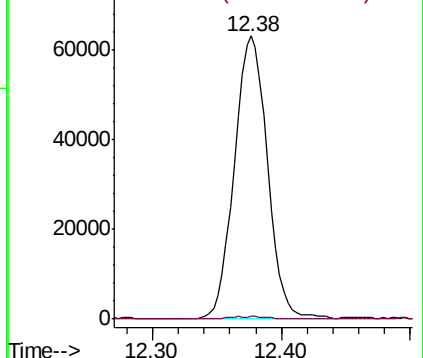
75 100

77 0.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 88.301 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064086.D

Acq: 12 Oct 2020 18:38

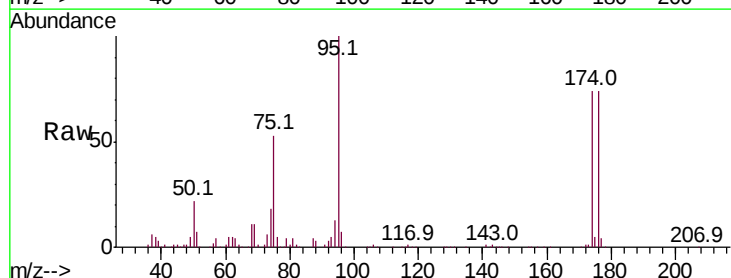
Tgt Ion: 75 Resp: 112680

Ion Ratio Lower Upper

75 100

53 0.0 88.2 132.2#

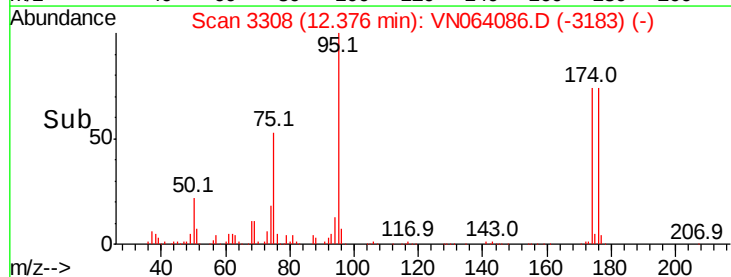
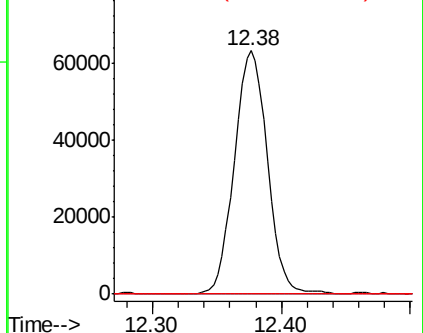
89 0.0 36.0 54.0#

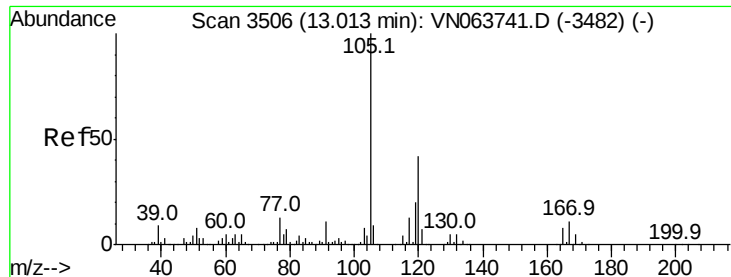


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#84

1,2,4-Trimethylbenzene

Concen: 0.548 ug/l

RT: 13.01 min Scan# 3506

Delta R.T. 0.00 min

Lab File: VN064086.D

Acq: 12 Oct 2020 18:38

Instrument :

MSVOA_N

ClientSampleId :

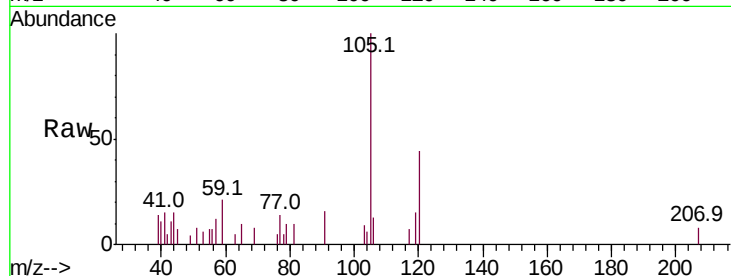
223

Tot Ion:105 Resp: 5578

Ion Ratio Lower Upper

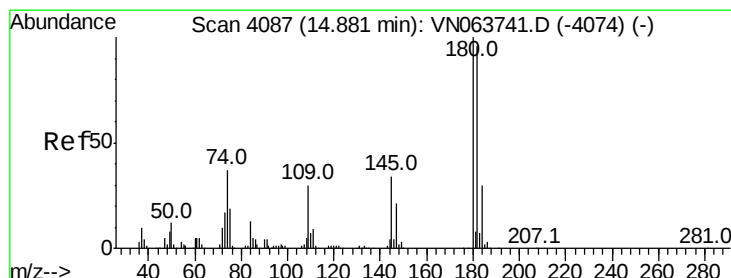
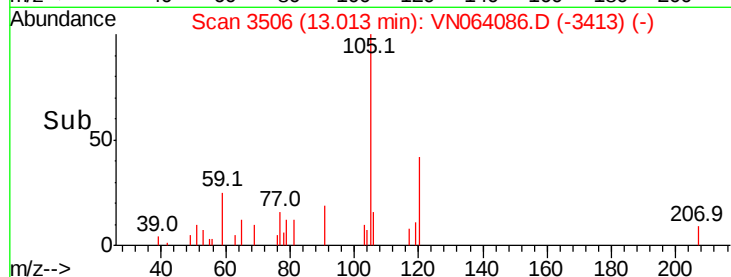
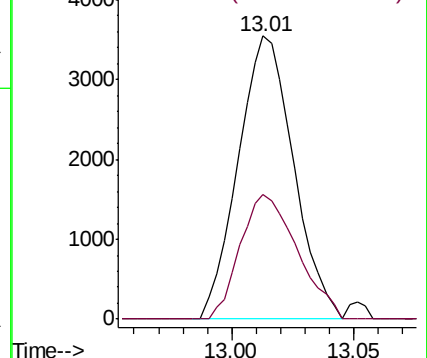
105 100

120 45.4 20.9 62.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#93

1,2,4-Trichlorobenzene

Concen: 1.809 ug/l

RT: 14.89 min Scan# 4089

Delta R.T. 0.01 min

Lab File: VN064086.D

Acq: 12 Oct 2020 18:38

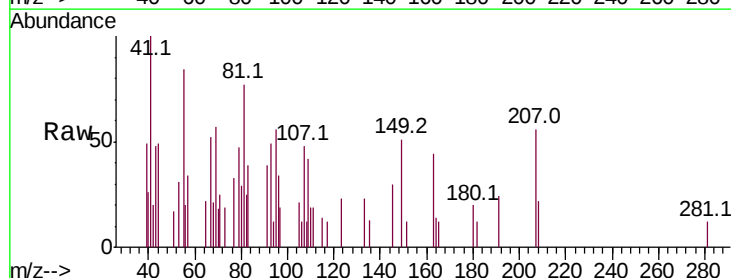
Tgt Ion:180 Resp: 218

Ion Ratio Lower Upper

180 100

182 77.5 48.2 144.6

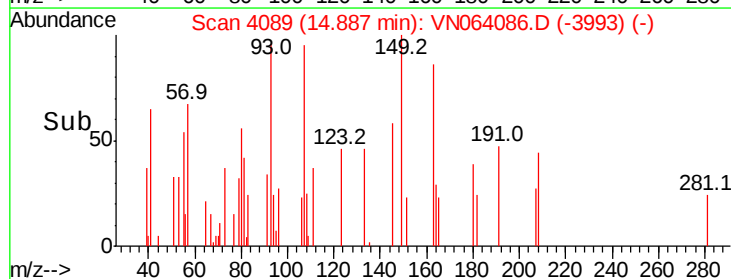
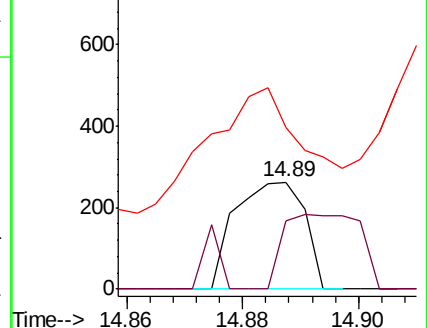
145 396.8 17.1 51.2#

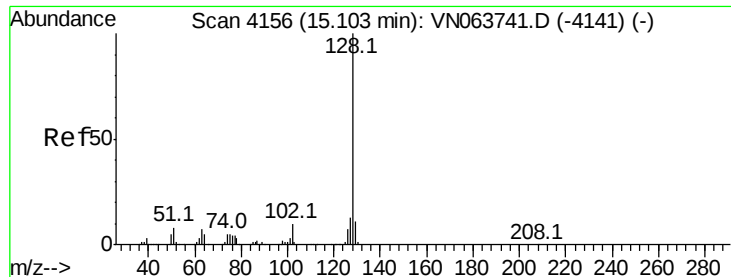


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 3.106 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN064086.D

Acq: 12 Oct 2020 18:38

Instrument :

MSVOA_N

ClientSampleId :

223

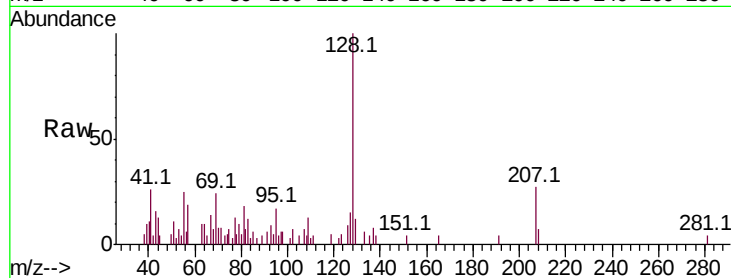
Tot Ion:128 Resp: 11051

Ion Ratio Lower Upper

128 100

127 14.1 10.5 15.7

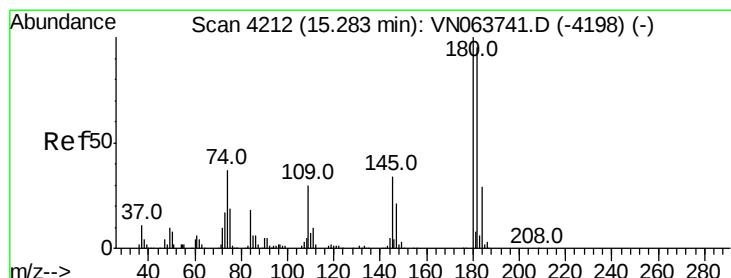
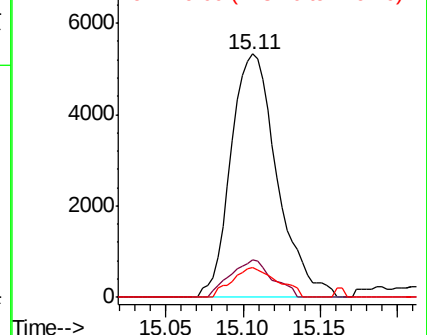
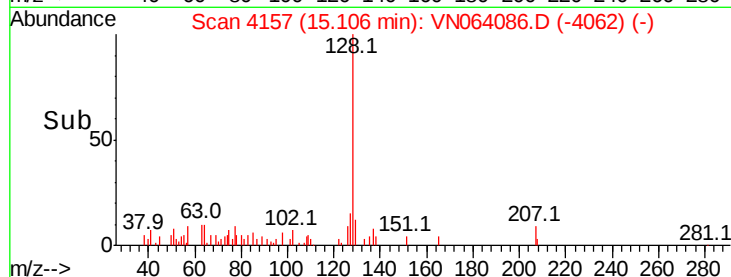
129 12.0 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 1.644 ug/l

RT: 15.29 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN064086.D

Acq: 12 Oct 2020 18:38

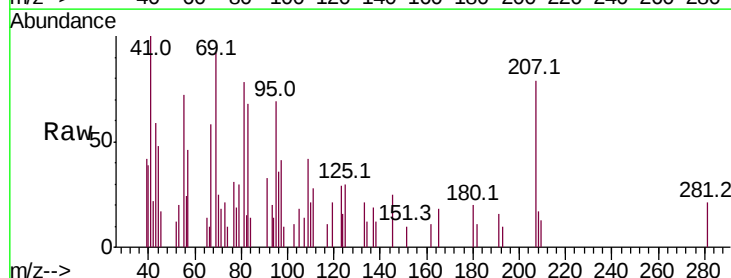
Tgt Ion:180 Resp: 220

Ion Ratio Lower Upper

180 100

182 75.0 47.9 143.6

145 0.0 17.2 51.5#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

