

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060819\
 Data File : VN056144.D
 Acq On : 8 Jun 2019 11:12
 Operator : JC/SP
 Sample : K3225-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 63 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 10 01:24:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	325427	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	491938	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	467954	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	150649	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	172476	53.38	ug/l	0.00
Spiked Amount			Recovery	=	106.76%	
35) Dibromofluoromethane	7.59	113	151771	50.29	ug/l	0.00
Spiked Amount			Recovery	=	100.58%	
50) Toluene-d8	10.09	98	630825	54.32	ug/l	0.00
Spiked Amount			Recovery	=	108.64%	
62) 4-Bromofluorobenzene	12.40	95	197068	49.89	ug/l	0.00
Spiked Amount			Recovery	=	99.78%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.19	62	1380	0.390	ug/l #	76
11) Tert butyl alcohol	4.73	59	496	0.882	ug/l #	74
16) Acetone	3.82	43	8238	5.331	ug/l	92
18) Methyl Acetate	4.33	43	3491	0.579	ug/l #	80
27) cis-1,2-Dichloroethene	6.83	96	3153	0.916	ug/l	92
31) Cyclohexane	7.66	56	4971	0.970	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	18368	4.342	ug/l #	47
37) Ethyl Acetate	6.94	43	1080	0.287	ug/l #	67
38) Carbon Tetrachloride	7.66	117	26942	6.909	ug/l #	15
40) Benzene	8.04	78	3217	0.250	ug/l	93
43) Isopropyl Acetate	8.30	43	6028	0.988	ug/l #	53
44) Trichloroethene	8.84	130	2629	0.712	ug/l	90
69) o-Xylene	11.95	106	1688	0.277	ug/l	89
71) Bromoform	12.40	173	1466	3.255	ug/l #	1
73) Isopropylbenzene	12.24	105	327	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	90327	32.585	ug/l #	100
79) 2-Chlorotoluene	12.59	91	240	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	90327	108.516	ug/l #	15
83) tert-Butylbenzene	13.00	119	181	Below Cal	#	28
90) Hexachloroethane	13.99	117	744	0.488	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	58	4.289	ug/l #	1
95) Naphthalene	15.13	128	1056	3.987	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	200	3.098	ug/l #	84

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056144.D

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Instrument :

MSVOA_N

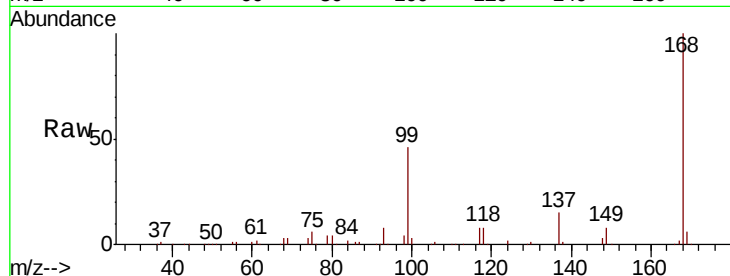
ClientSampleId :

Tot Ion:168 Resp: 325427

Ion Ratio Lower Upper

168 100

99 45.5 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055978.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN055978.D (-1812) (-)

7.66

150000

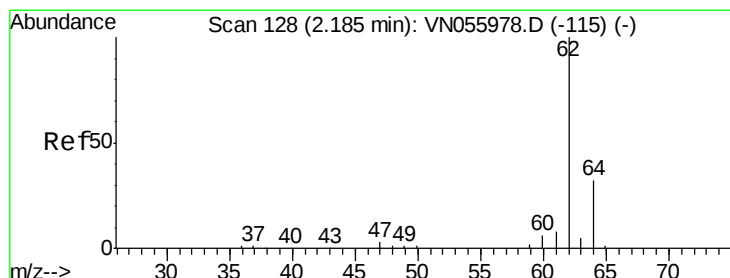
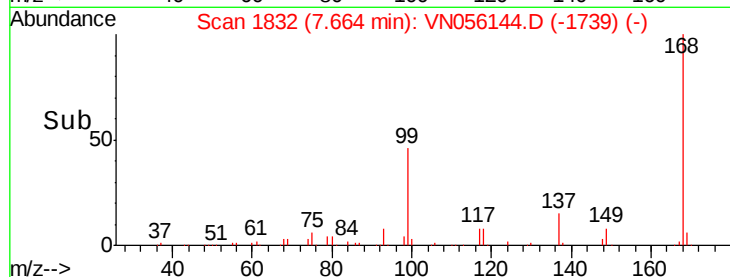
100000

50000

0

7.60 7.70 7.80

Time-->



#4

Vinyl Chloride

Concen: 0.390 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN056144.D

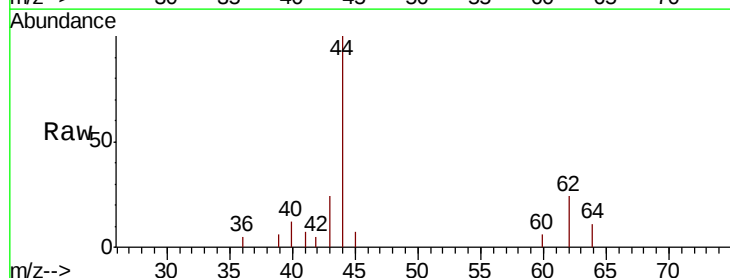
Acq: 8 Jun 2019 11:12

Tgt Ion: 62 Resp: 1380

Ion Ratio Lower Upper

62 100

64 45.3 25.6 38.4#



Abundance Ion 61.90 (61.60 to 62.60): VN055978.D (-115) (-)

Ion 63.90 (63.60 to 64.60): VN055978.D (-115) (-)

2.19

1000

800

600

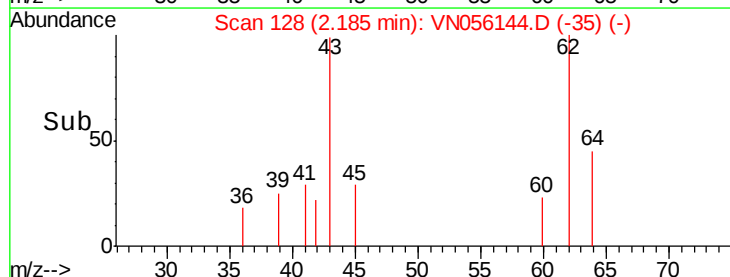
400

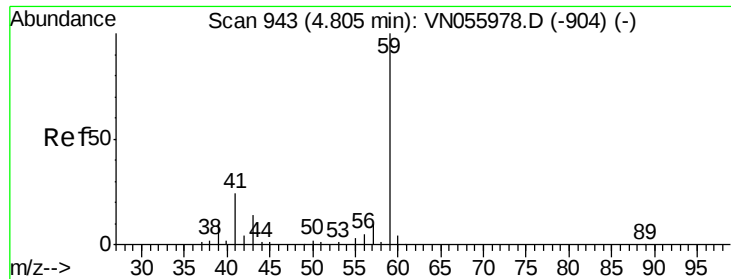
200

0

2.14 2.16 2.18 2.20 2.22

Time-->

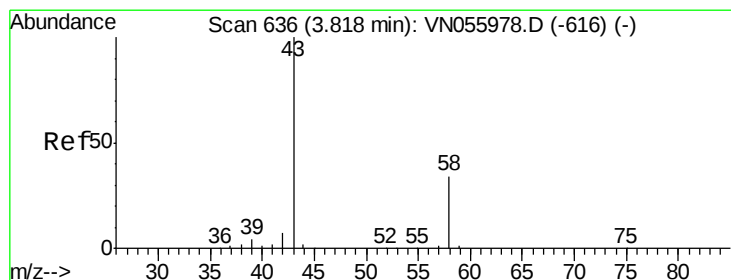
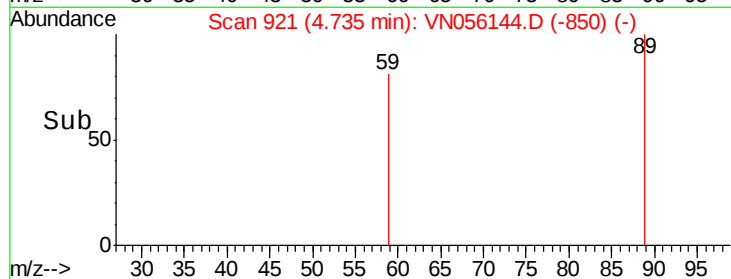
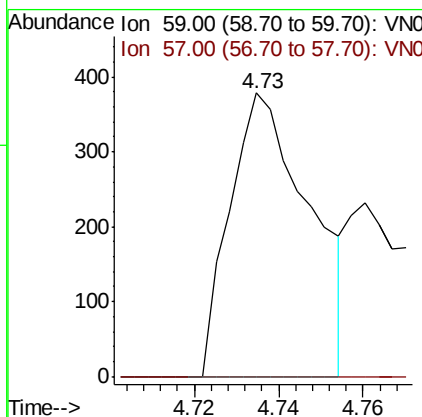
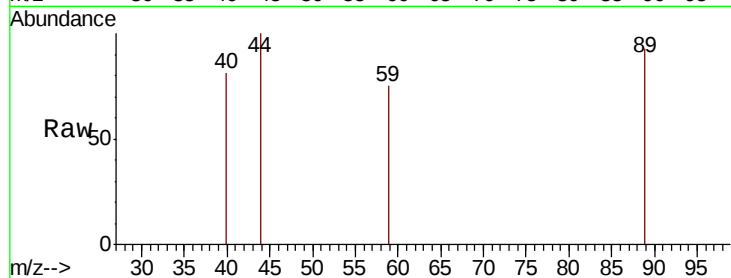




#11
Tert butyl alcohol
Concen: 0.882 ug/l
RT: 4.73 min Scan# 921
Delta R.T. -0.07 min
Lab File: VN056144.D
Acq: 8 Jun 2019 11:12

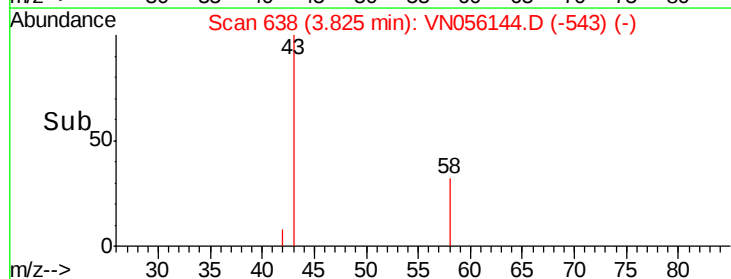
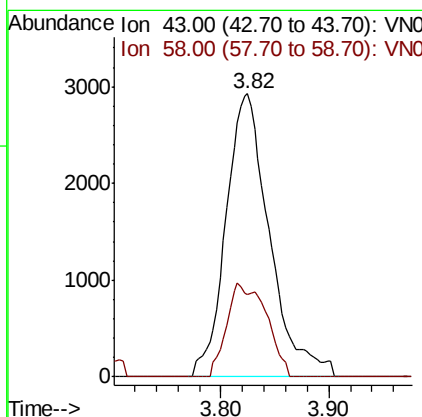
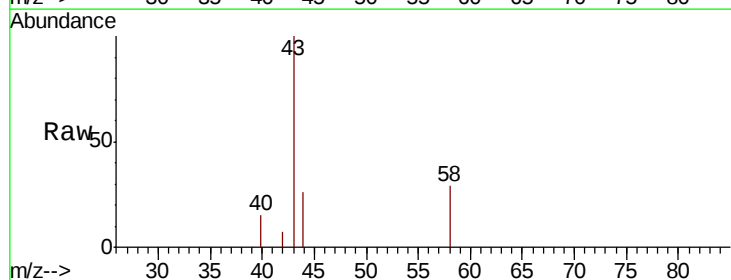
Instrument :
MSVOA_N
ClientSampled :

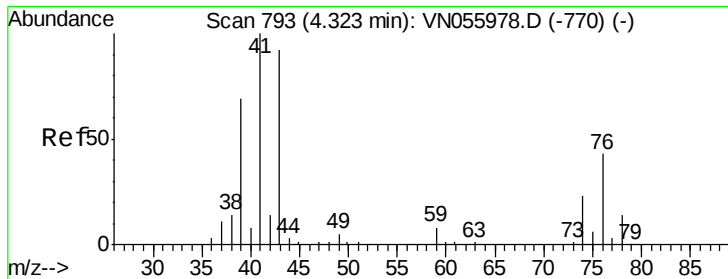
Tot Ion: 59 Resp: 496
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#



#16
Acetone
Concen: 5.331 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN056144.D
Acq: 8 Jun 2019 11:12

Tgt Ion: 43 Resp: 8238
Ion Ratio Lower Upper
43 100
58 28.9 26.6 39.8

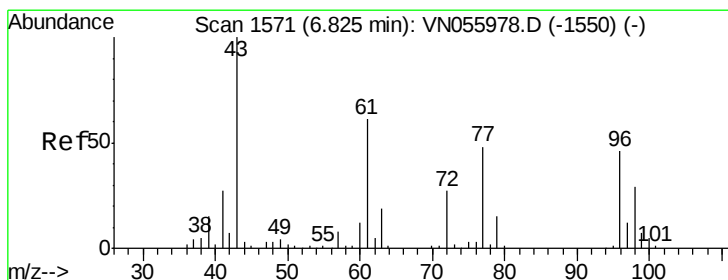
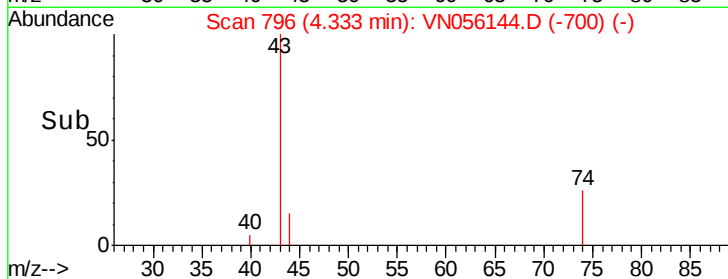
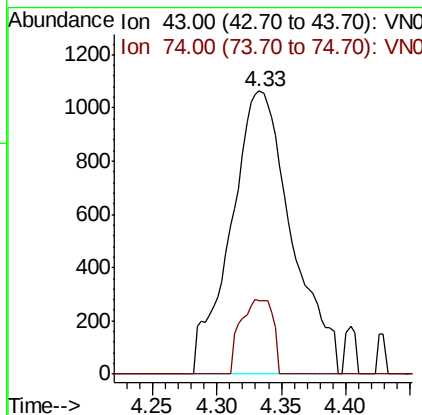
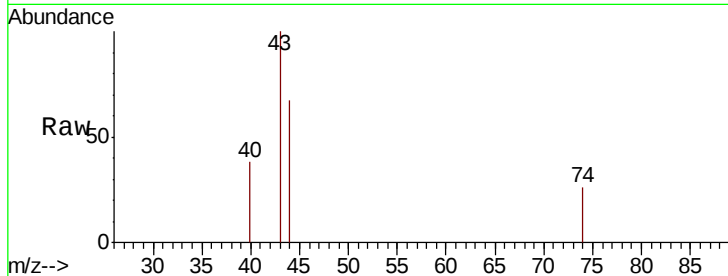




#18
Methyl Acetate
Concen: 0.579 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN056144.D
Acq: 8 Jun 2019 11:12

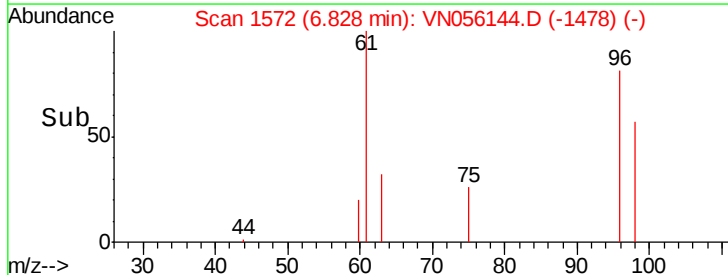
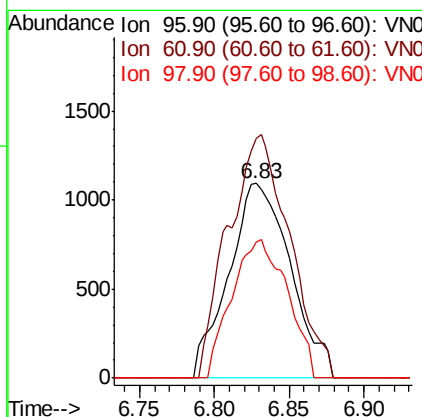
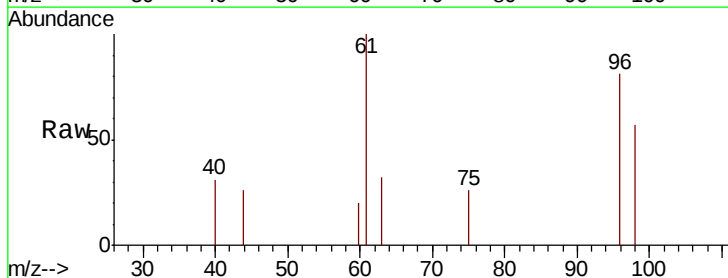
Instrument :
MSVOA_N
ClientSampled :

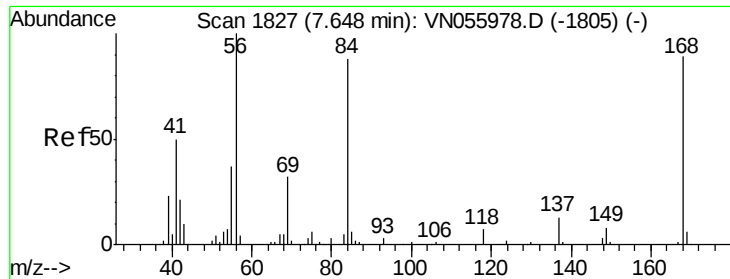
Tot Ion: 43 Resp: 3491
Ion Ratio Lower Upper
43 100
74 14.1 19.3 28.9#



#27
cis-1,2-Dichloroethene
Concen: 0.916 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN056144.D
Acq: 8 Jun 2019 11:12

Tgt Ion: 96 Resp: 3153
Ion Ratio Lower Upper
96 100
61 123.9 0.0 275.8
98 63.7 0.0 128.4

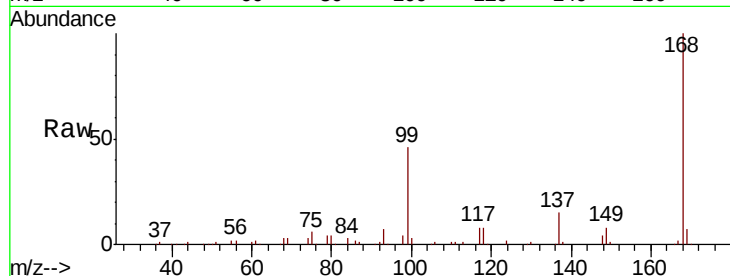




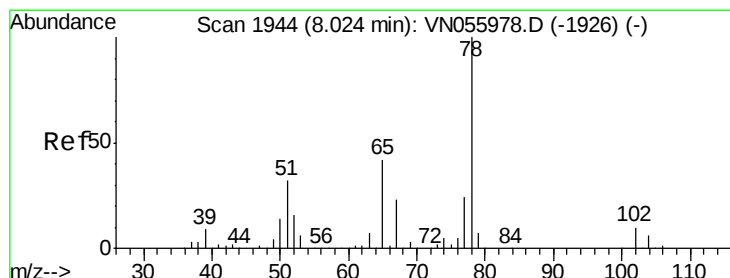
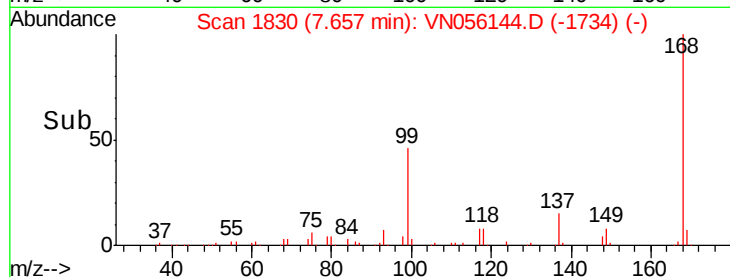
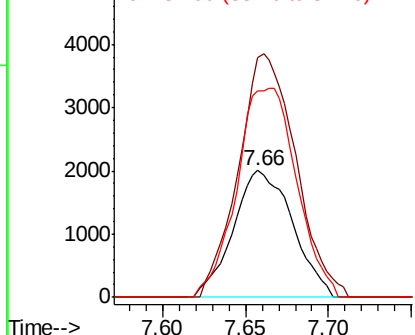
#31
Cyclohexane
Concen: 0.970 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN056144.D
Acq: 8 Jun 2019 11:12

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 4971
Ion Ratio Lower Upper
56 100
69 188.4 25.6 38.4#
84 162.4 67.4 101.0#

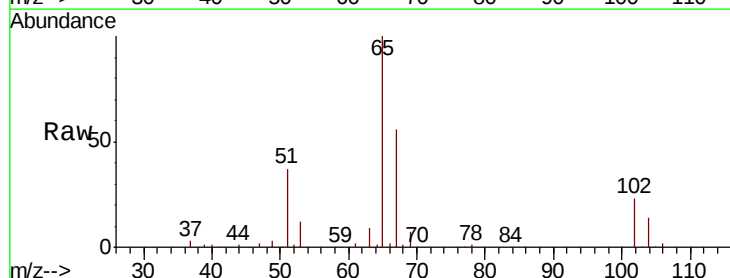


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

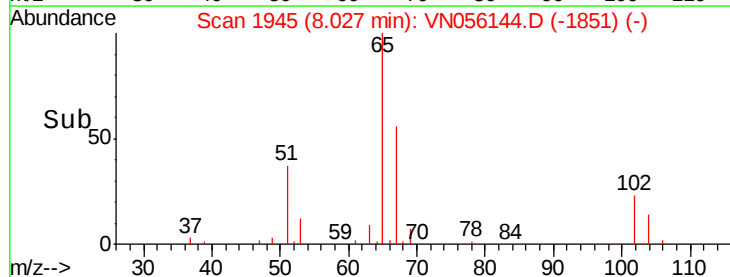
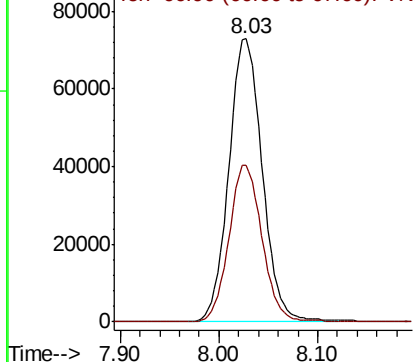


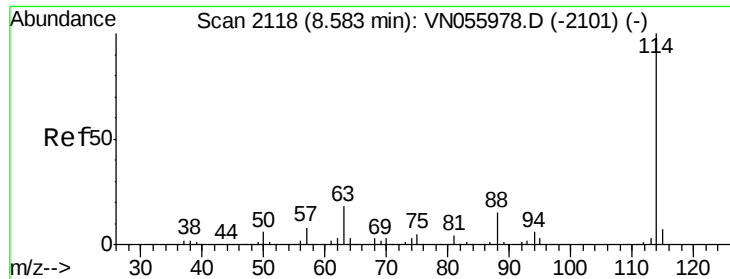
#33
1,2-Dichloroethane-d4
Concen: 53.378 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056144.D
Acq: 8 Jun 2019 11:12

Tgt Ion: 65 Resp: 172476
Ion Ratio Lower Upper
65 100
67 54.8 0.0 109.2



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

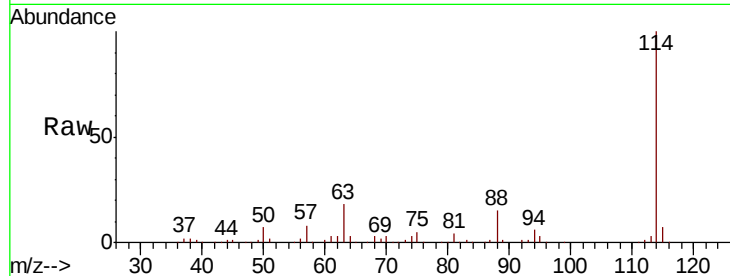




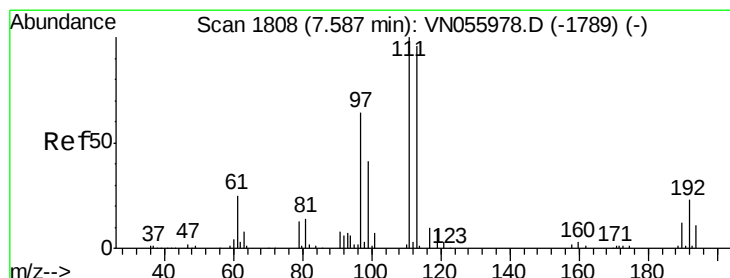
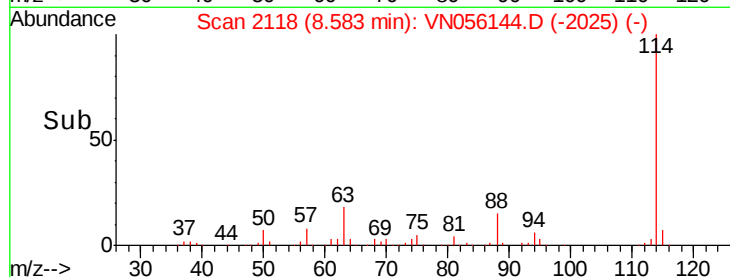
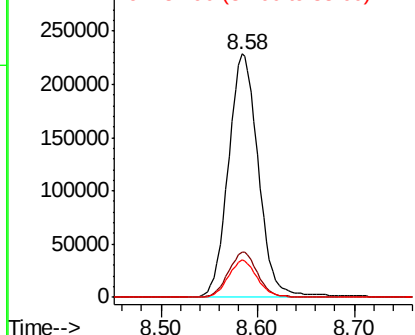
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VN056144.D
Acq: 8 Jun 2019 11:12

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 491938
Ion Ratio Lower Upper
114 100
63 18.4 0.0 39.2
88 15.2 0.0 31.0

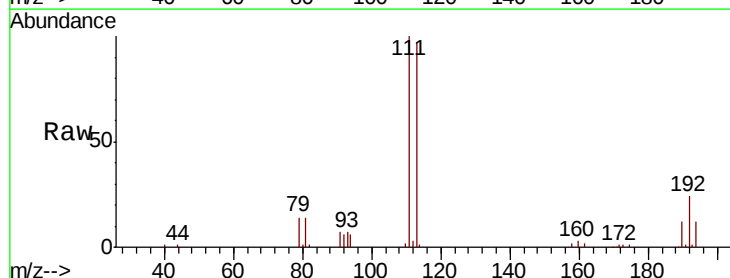


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

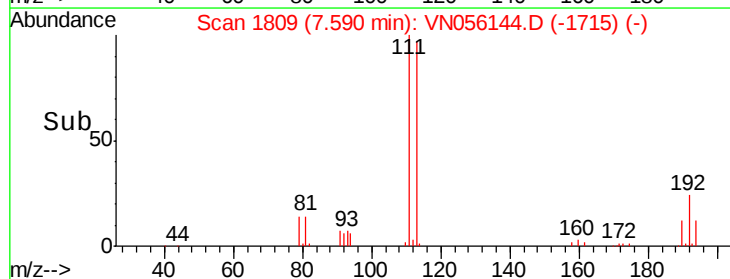
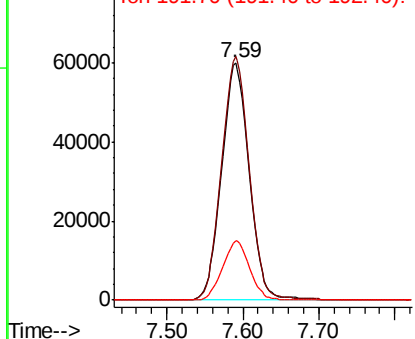


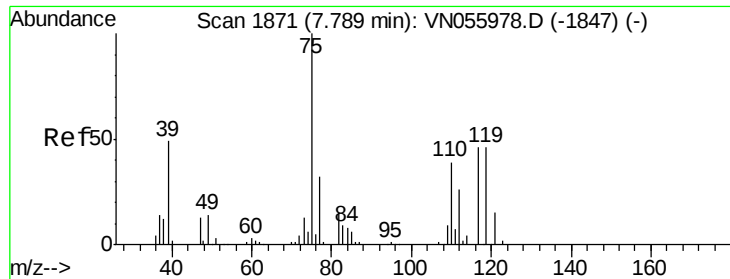
#35
Dibromofluoromethane
Concen: 50.285 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN056144.D
Acq: 8 Jun 2019 11:12

Tgt Ion:113 Resp: 151771
Ion Ratio Lower Upper
113 100
111 102.6 81.9 122.9
192 24.3 19.5 29.3



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

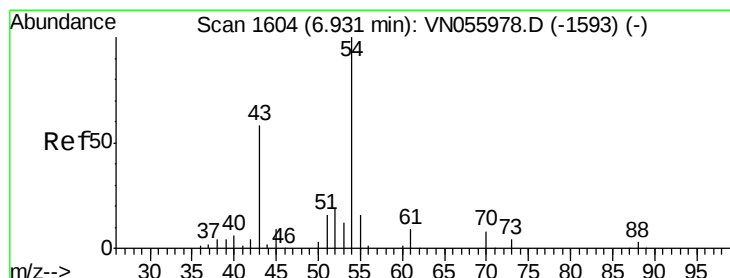
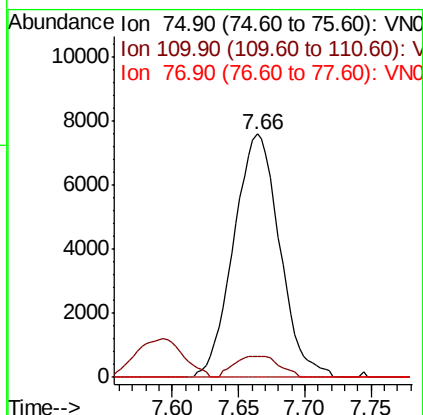
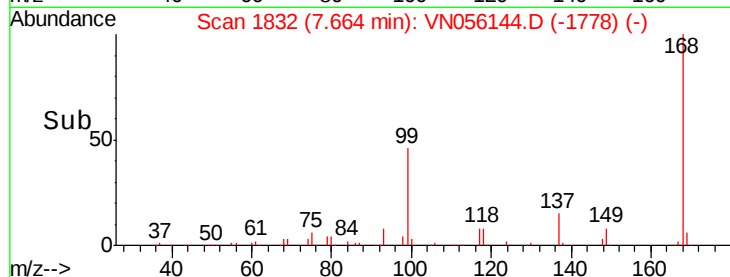
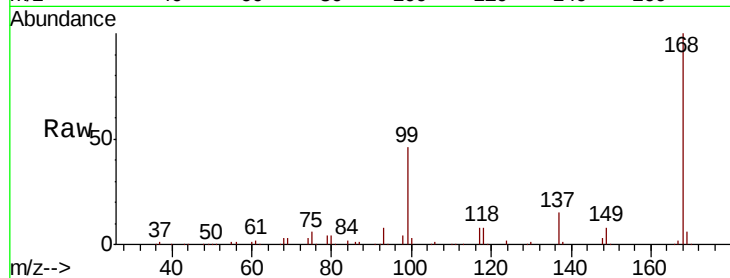




#36
 1,1-Dichloropropene
 Concen: 4.342 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056144.D
 Acq: 8 Jun 2019 11:12

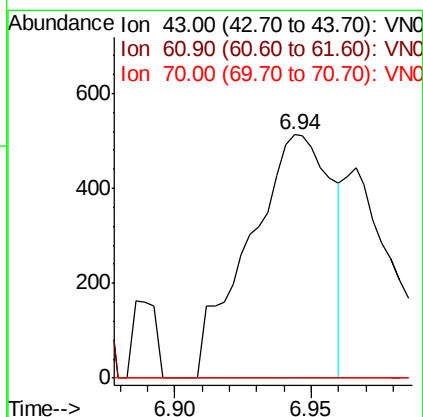
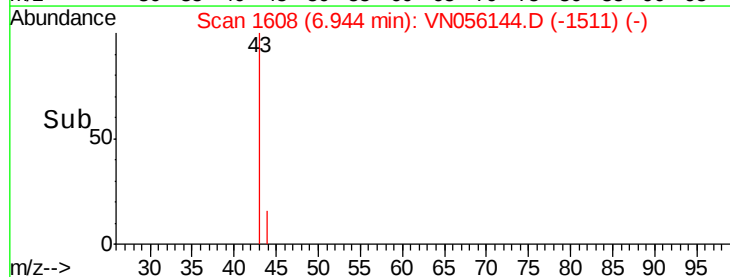
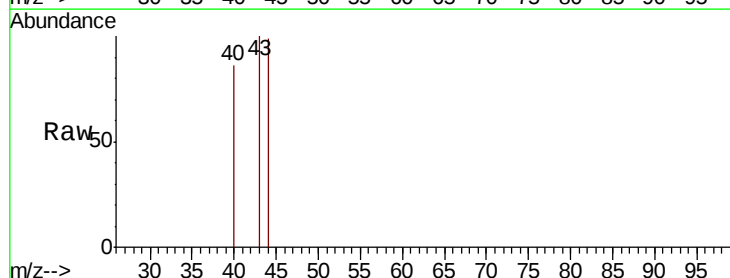
Instrument :
 MSVOA_N
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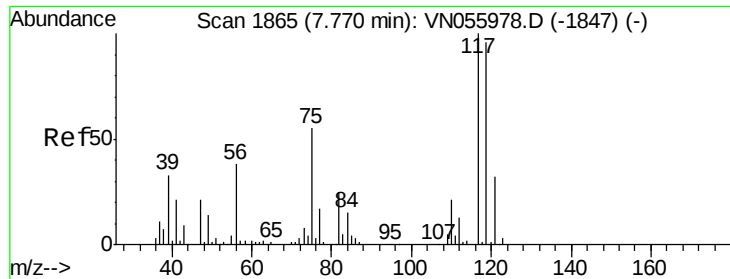
Tot Ion: 75 Resp: 18368
 Ion Ratio Lower Upper
 75 100
 110 8.4 19.0 57.0#
 77 0.0 25.1 37.7#



#37
 Ethyl Acetate
 Concen: 0.287 ug/l
 RT: 6.94 min Scan# 1608
 Delta R.T. 0.01 min
 Lab File: VN056144.D
 Acq: 8 Jun 2019 11:12

Tgt Ion: 43 Resp: 1080
 Ion Ratio Lower Upper
 43 100
 61 0.0 12.2 18.2#
 70 0.0 8.9 13.3#





#38

Carbon Tetrachloride

Concen: 6.909 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056144.D

Acq: 8 Jun 2019 11:12

Instrument :

MSVOA_N

ClientSampled :

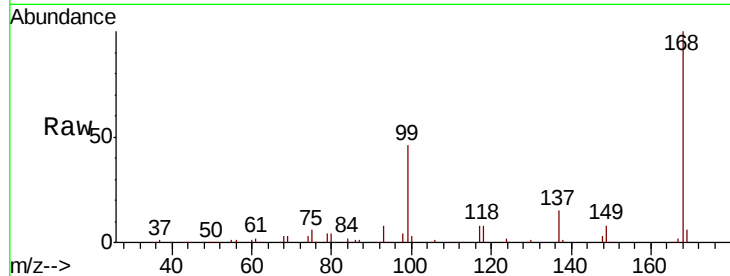
Tot Ion:117 Resp: 26942

Ion Ratio Lower Upper

117 100

119 5.0 79.0 118.6#

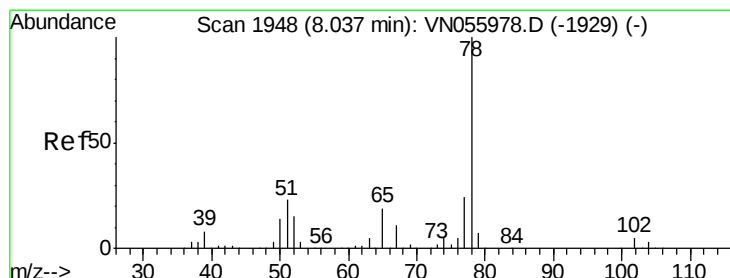
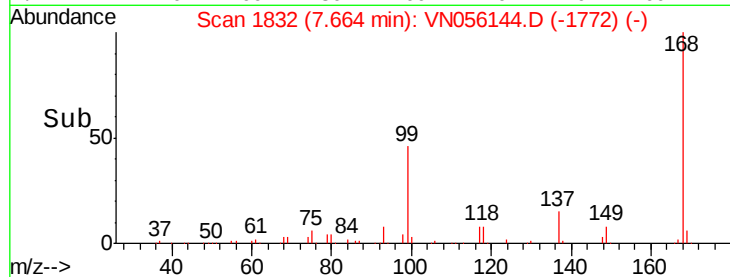
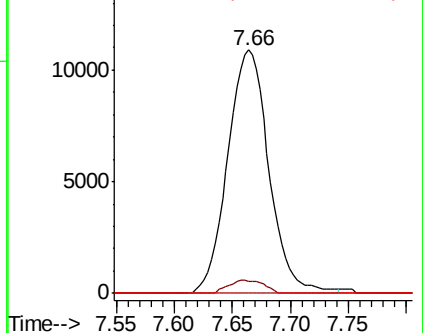
121 0.0 24.7 37.1#



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



#40

Benzene

Concen: 0.250 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. 0.01 min

Lab File: VN056144.D

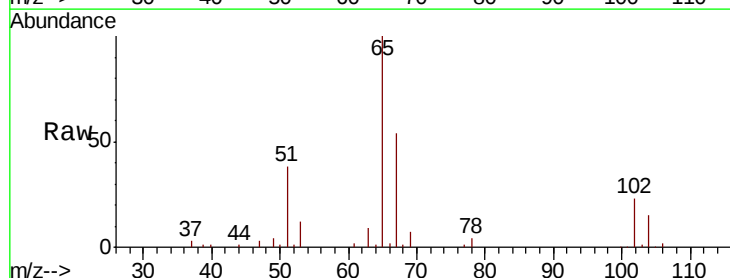
Acq: 8 Jun 2019 11:12

Tgt Ion: 78 Resp: 3217

Ion Ratio Lower Upper

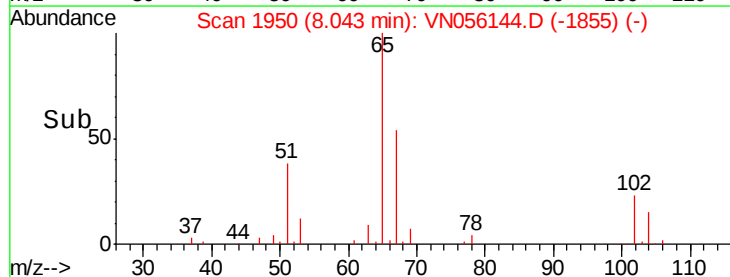
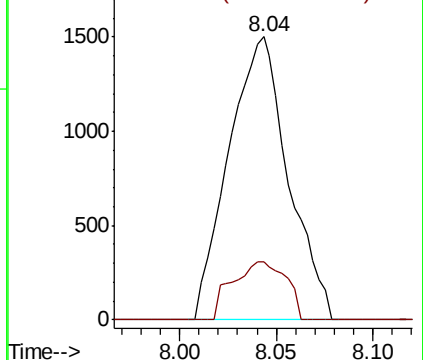
78 100

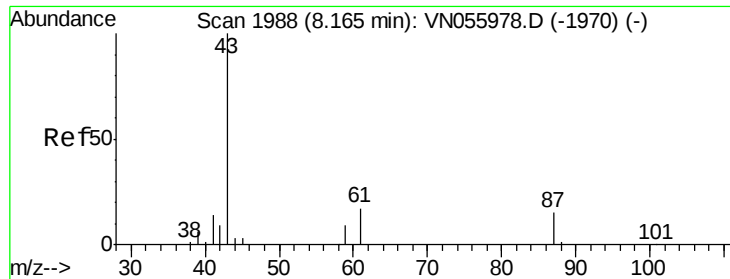
77 20.3 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): V

Ion 77.00 (76.70 to 77.70): V





#43

Isopropyl Acetate

Concen: 0.988 ug/l

RT: 8.30 min Scan# 2029

Delta R.T. 0.13 min

Lab File: VN056144.D

Acq: 8 Jun 2019 11:12

Instrument :

MSVOA_N

ClientSampled :

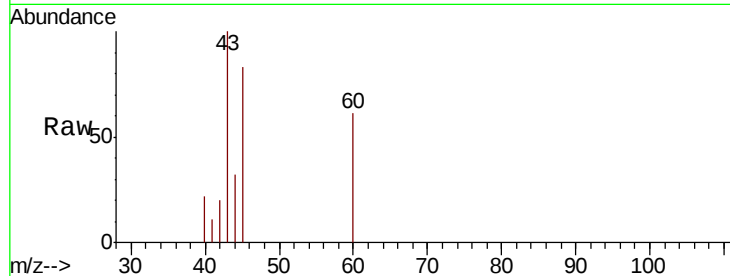
Tot Ion: 43 Resp: 6028

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

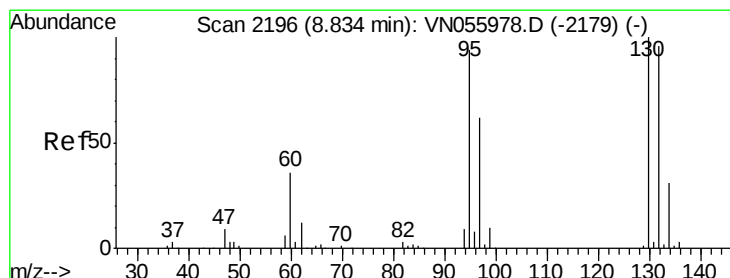
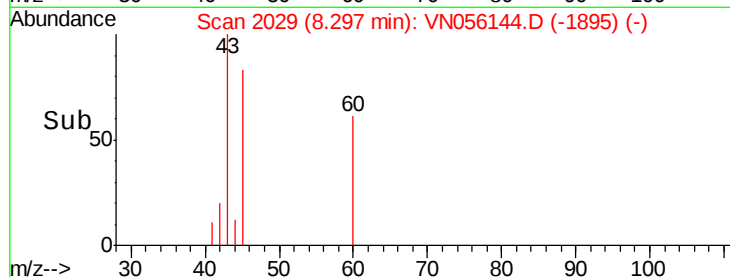
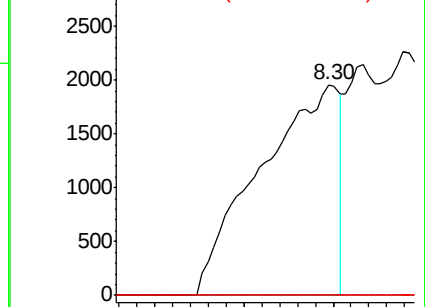
87 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-1970) (-)

Ion 61.00 (60.70 to 61.70): VN055978.D (-1970) (-)

Ion 87.00 (86.70 to 87.70): VN055978.D (-1970) (-)



#44

Trichloroethene

Concen: 0.712 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN056144.D

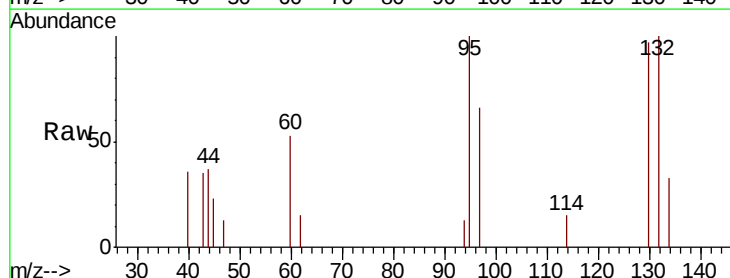
Acq: 8 Jun 2019 11:12

Tgt Ion: 130 Resp: 2629

Ion Ratio Lower Upper

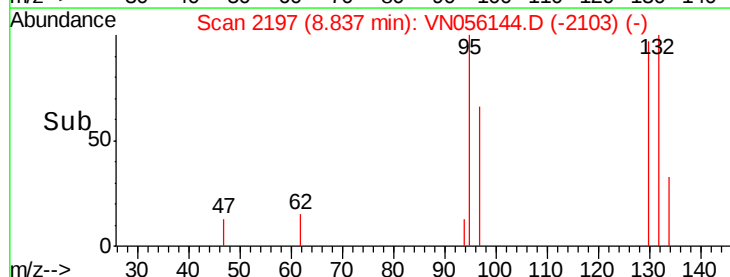
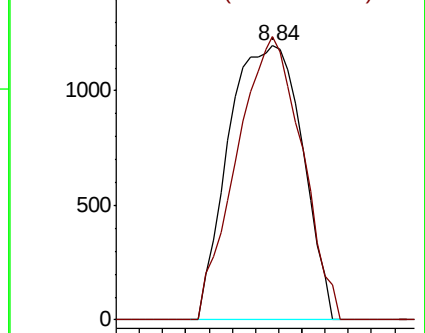
130 100

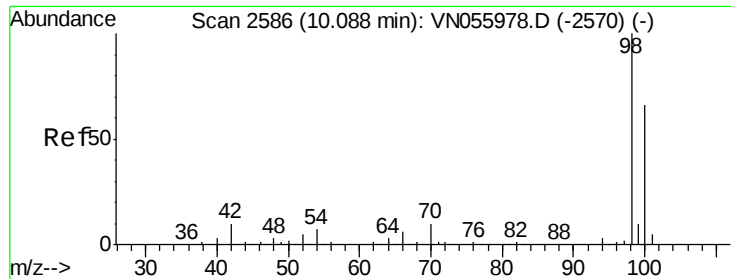
95 103.3 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): VN055978.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN055978.D (-2179) (-)





#50

Toluene-d8

Concen: 54.316 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056144.D

Acq: 8 Jun 2019 11:12

Instrument :

MSVOA_N

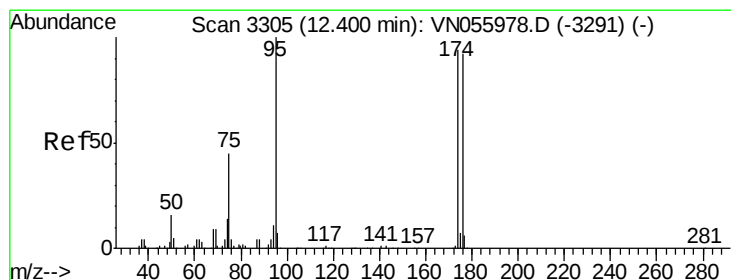
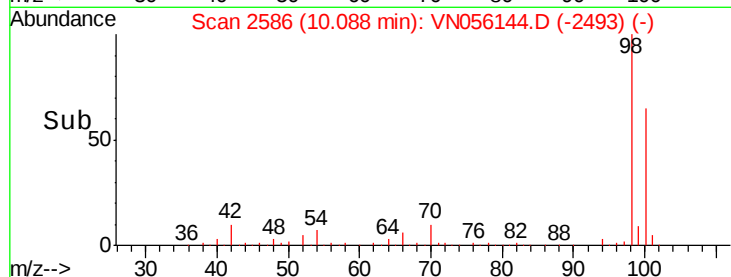
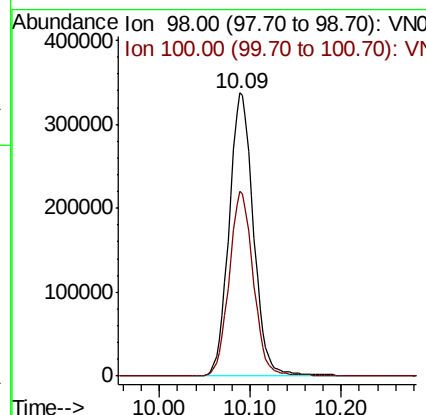
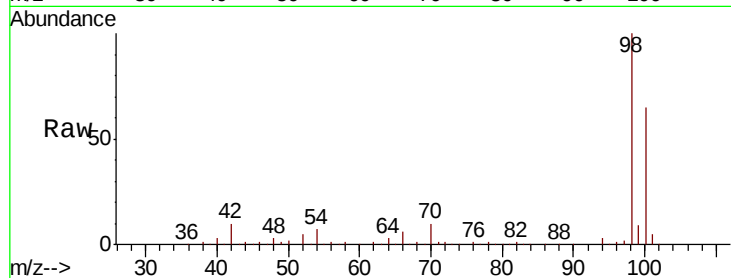
ClientSampled :

Tot Ion: 98 Resp: 630825

Ion Ratio Lower Upper

98 100

100 64.4 51.9 77.9



#62

4-Bromofluorobenzene

Concen: 49.895 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056144.D

Acq: 8 Jun 2019 11:12

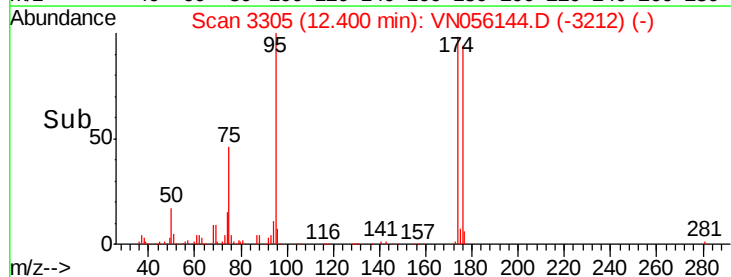
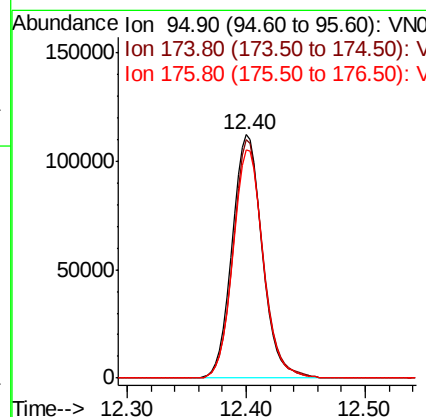
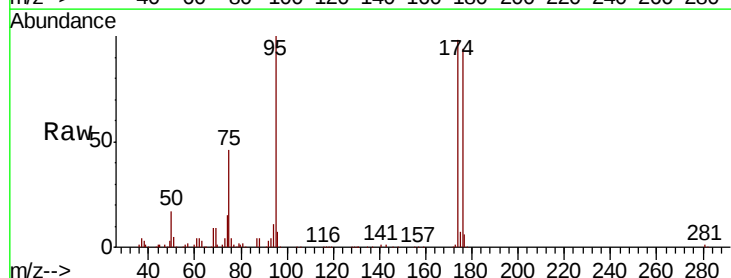
Tgt Ion: 95 Resp: 197068

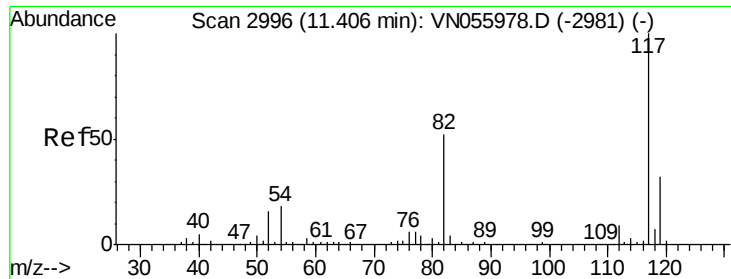
Ion Ratio Lower Upper

95 100

174 96.5 0.0 191.0

176 93.8 0.0 185.2

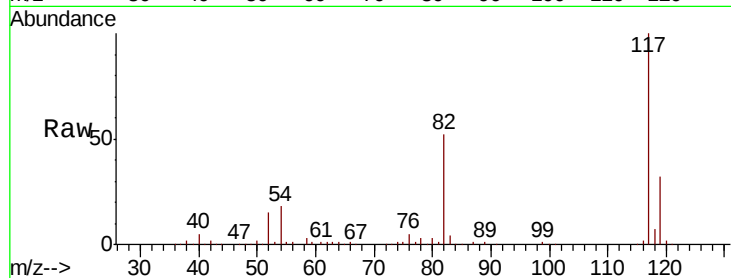




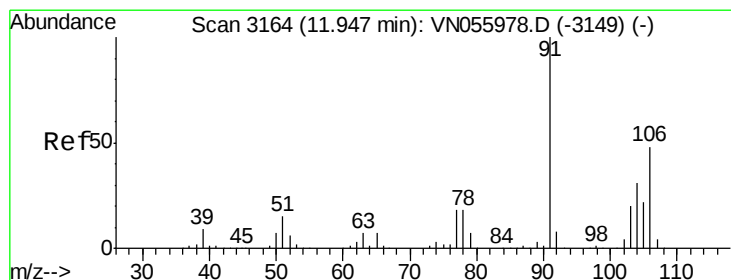
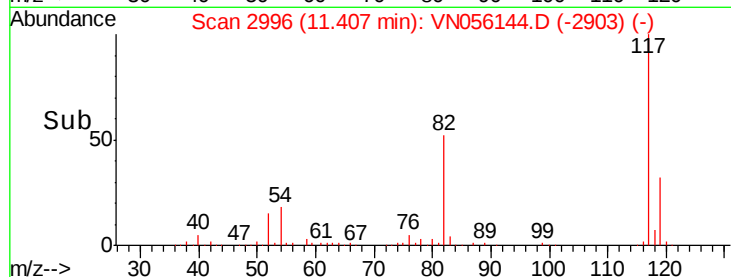
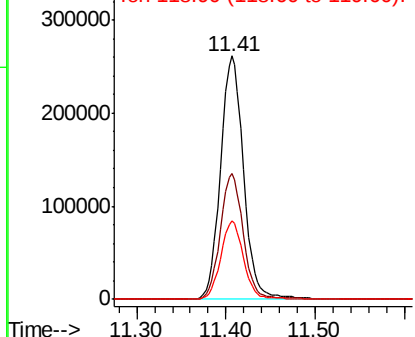
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056144.D
Acq: 8 Jun 2019 11:12

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 467954
Ion Ratio Lower Upper
117 100
82 51.7 41.8 62.8
119 32.1 25.4 38.0

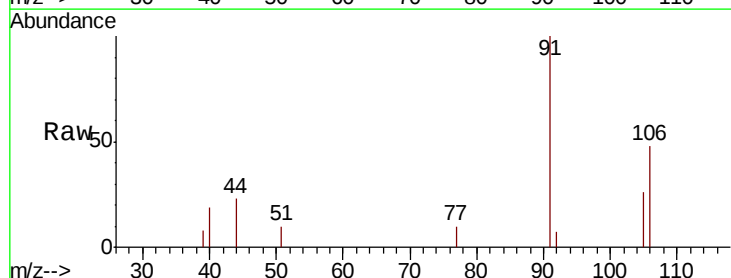


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

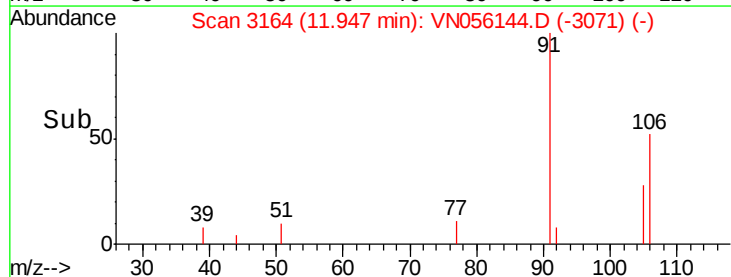
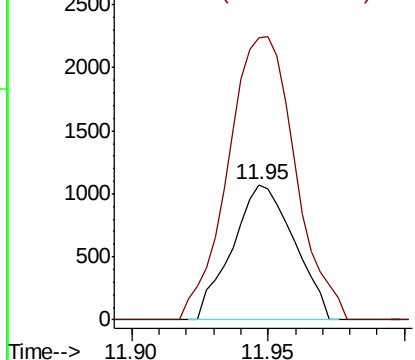


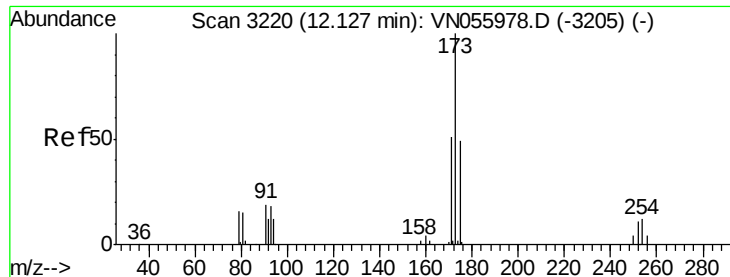
#69
o-Xylene
Concen: 0.277 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN056144.D
Acq: 8 Jun 2019 11:12

Tgt Ion:106 Resp: 1688
Ion Ratio Lower Upper
106 100
91 227.3 104.7 314.1



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN





#71

Bromoform

Concen: 3.255 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056144.D

Acq: 8 Jun 2019 11:12

Instrument :

MSVOA_N

ClientSampled :

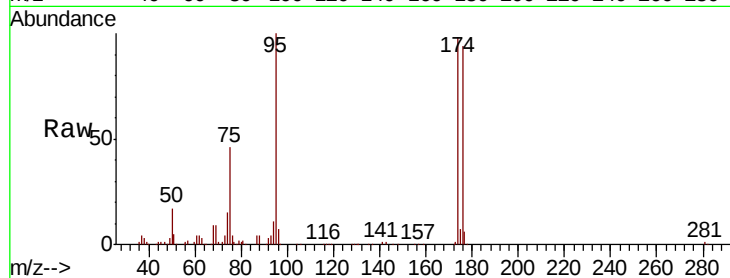
Tot Ion:173 Resp: 1466

Ion Ratio Lower Upper

173 100

175 820.2 24.3 72.8#

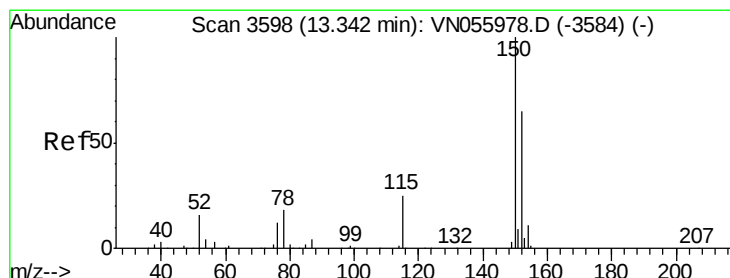
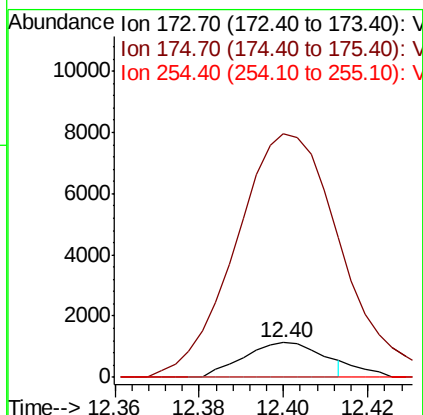
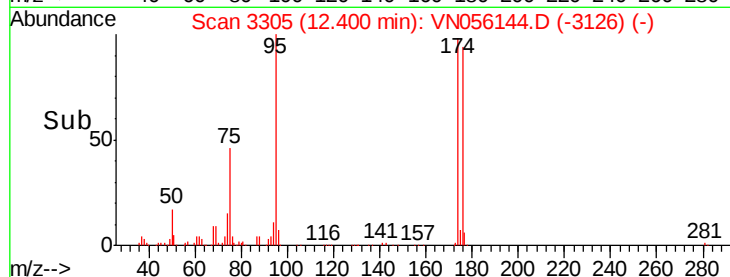
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN056144.D

Acq: 8 Jun 2019 11:12

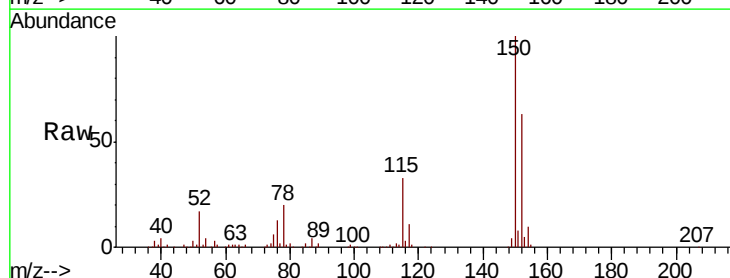
Tgt Ion:152 Resp: 150649

Ion Ratio Lower Upper

152 100

115 52.3 27.0 81.0

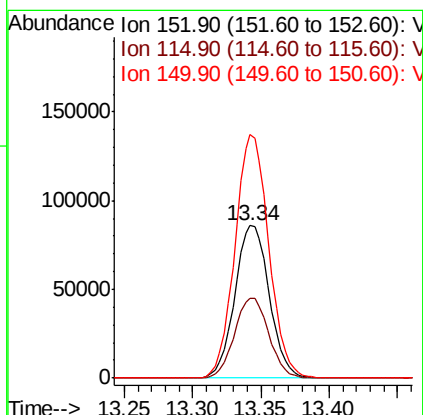
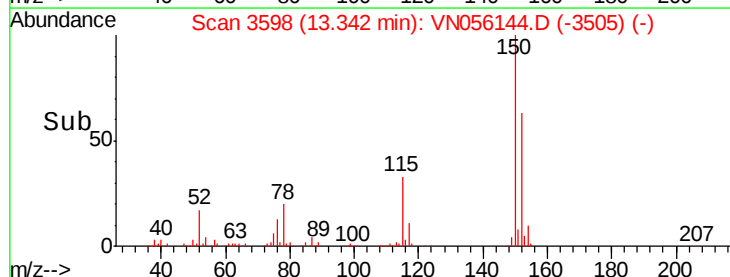
150 156.5 0.0 343.2

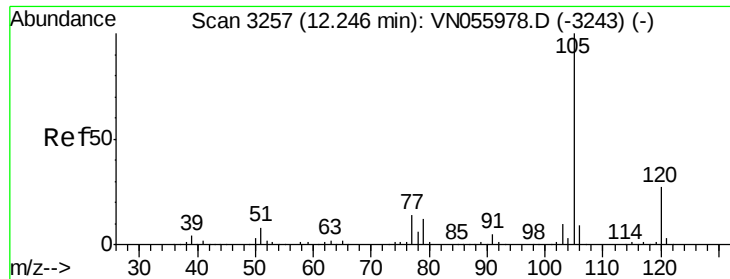


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.24 min Scan# 3256

Delta R.T. -0.00 min

Lab File: VN056144.D

Acq: 8 Jun 2019 11:12

Instrument :

MSVOA_N

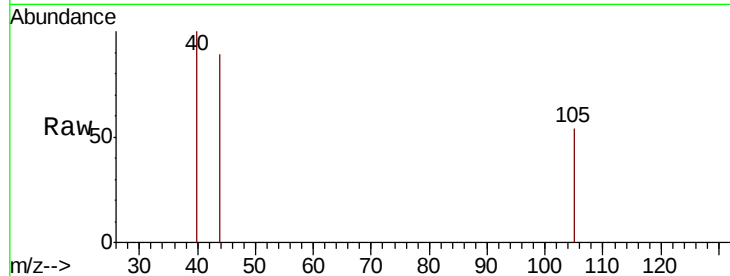
ClientSampleId :

Tot Ion:105 Resp: 327

Ion Ratio Lower Upper

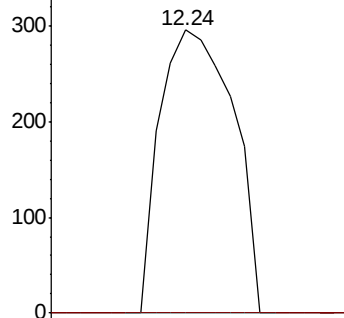
105 100

120 0.0 13.6 40.7#

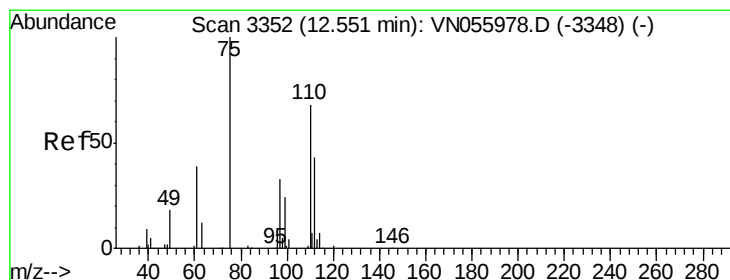
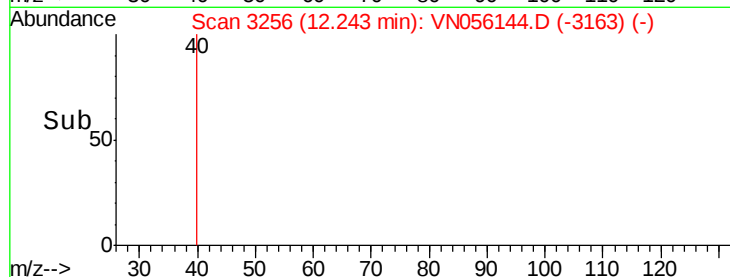


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



Time-->



#76

1,2,3-Trichloropropane

Concen: 32.585 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056144.D

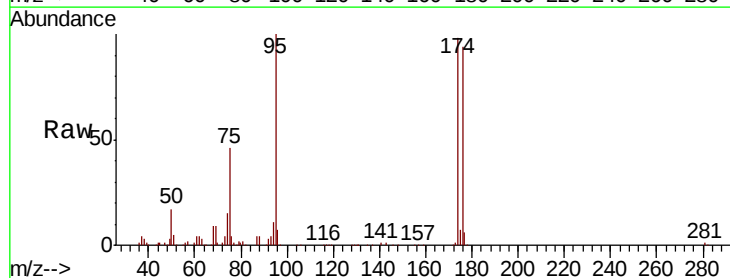
Acq: 8 Jun 2019 11:12

Tgt Ion: 75 Resp: 90327

Ion Ratio Lower Upper

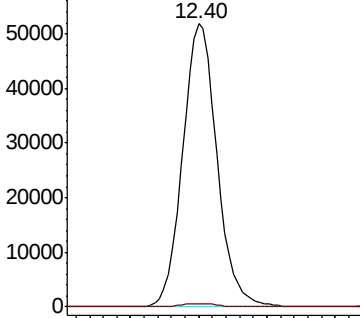
75 100

77 1.1 0.0 0.0#

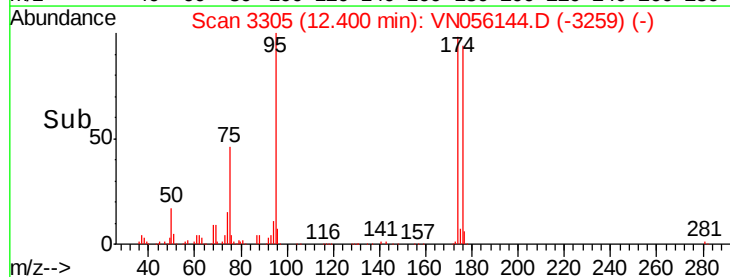


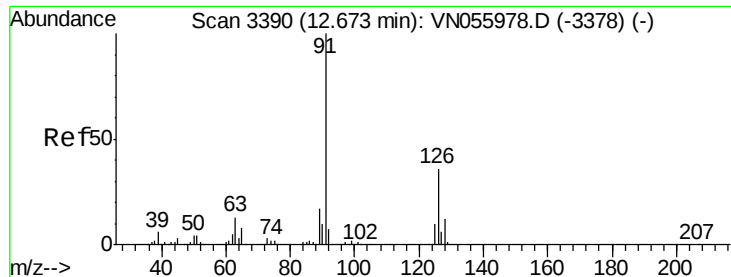
Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V



Time-->





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3363

Delta R.T. -0.09 min

Lab File: VN056144.D

Acq: 8 Jun 2019 11:12

Instrument :

MSVOA_N

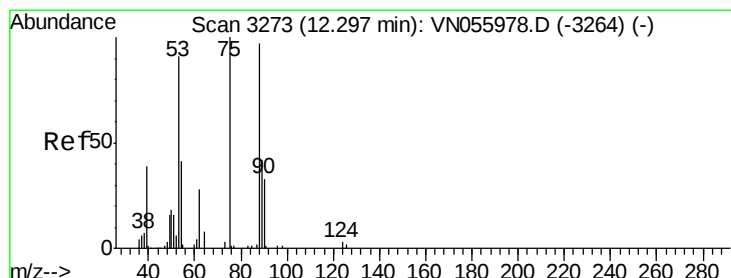
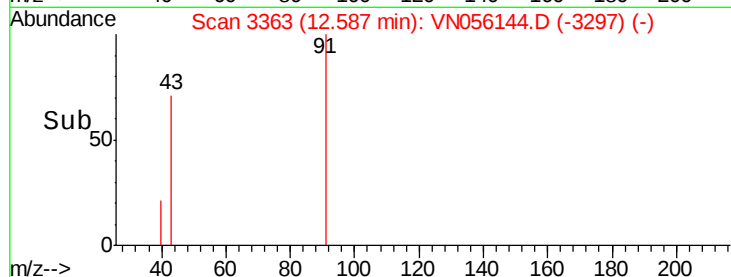
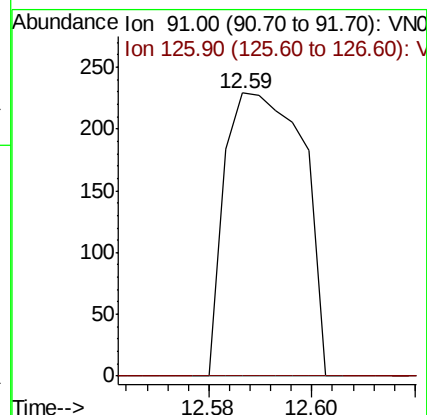
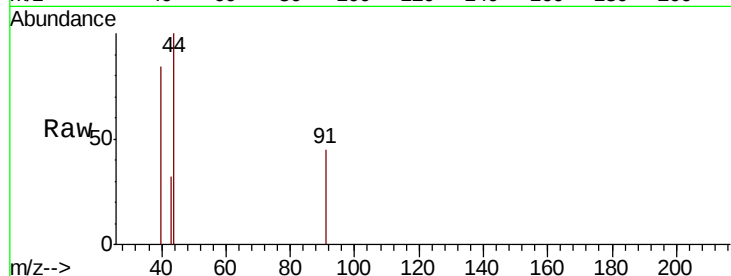
ClientSampled :

Tot Ion: 91 Resp: 240

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 108.516 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056144.D

Acq: 8 Jun 2019 11:12

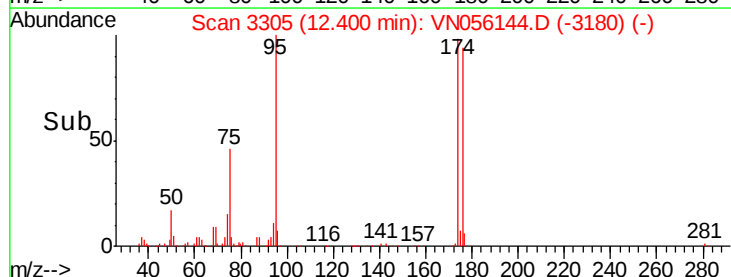
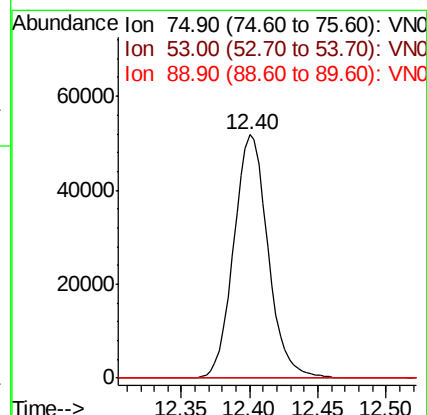
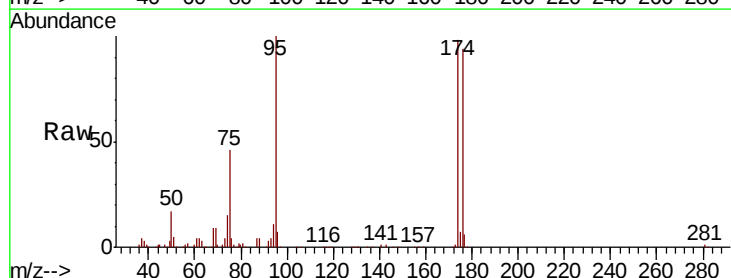
Tgt Ion: 75 Resp: 90327

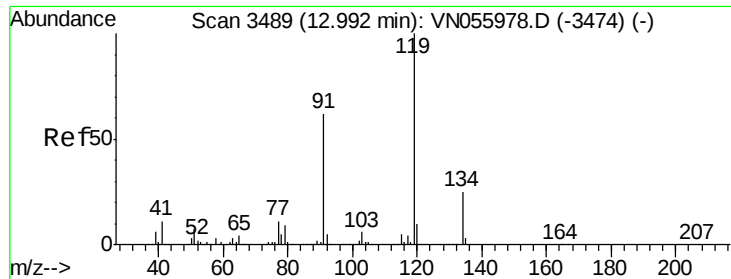
Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#

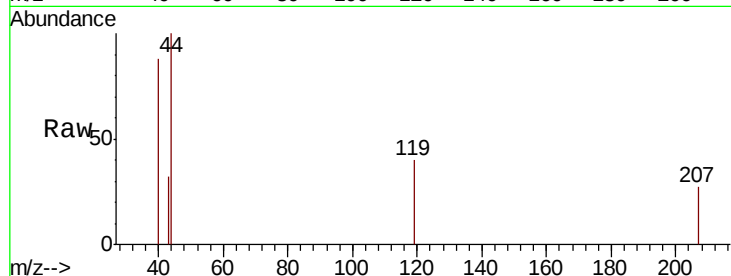




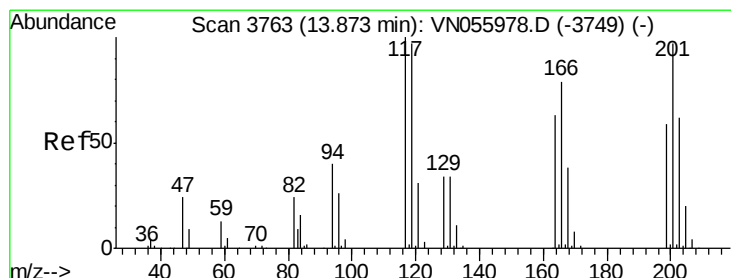
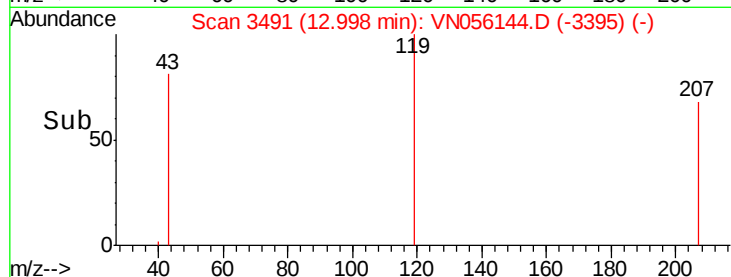
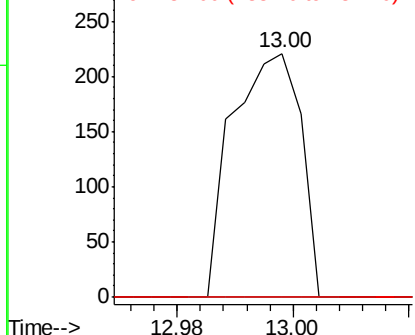
#83
tert-Butylbenzene
Concen: Below Cal
RT: 13.00 min Scan# 3491
Delta R.T. 0.01 min
Lab File: VN056144.D
Acq: 8 Jun 2019 11:12

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:119 Resp: 181
Ion Ratio Lower Upper
119 100
91 0.0 30.9 92.8#
134 0.0 13.3 39.8#

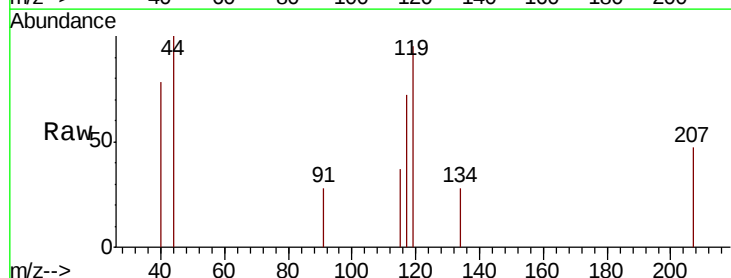


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VN
Ion 134.00 (133.70 to 134.70): V

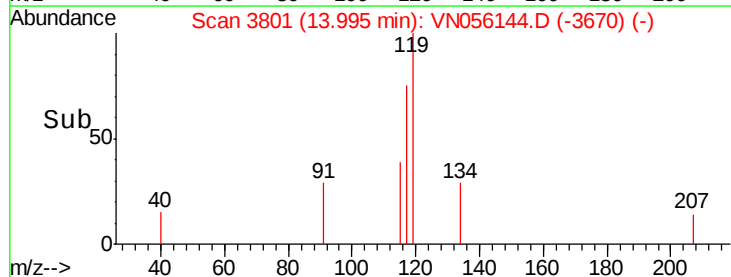
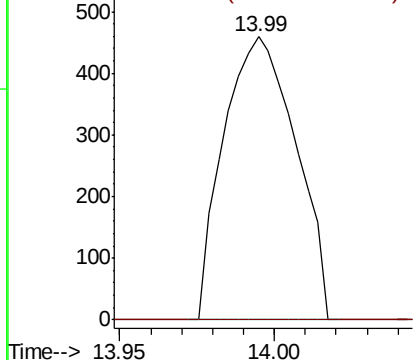


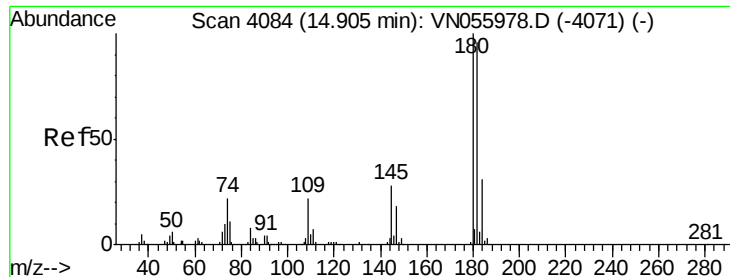
#90
Hexachloroethane
Concen: 0.488 ug/l
RT: 13.99 min Scan# 3801
Delta R.T. 0.12 min
Lab File: VN056144.D
Acq: 8 Jun 2019 11:12

Tgt Ion:117 Resp: 744
Ion Ratio Lower Upper
117 100
201 0.0 50.0 150.0#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V

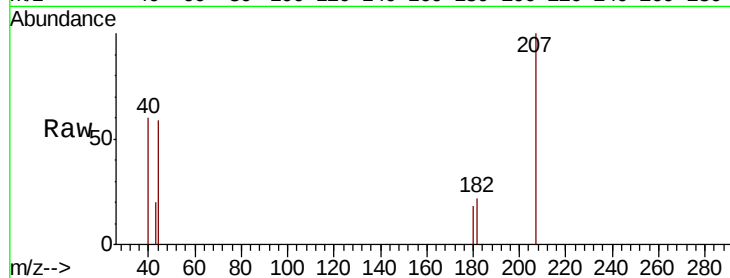




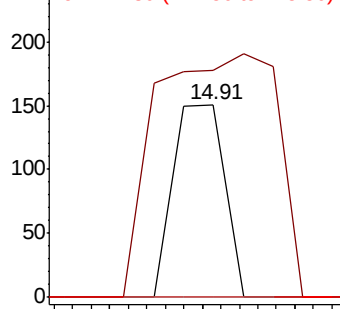
#93
 1,2,4-Trichlorobenzene
 Concen: 4.289 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN056144.D
 Acq: 8 Jun 2019 11:12

Instrument :
 MSVOA_N
 ClientSampled :

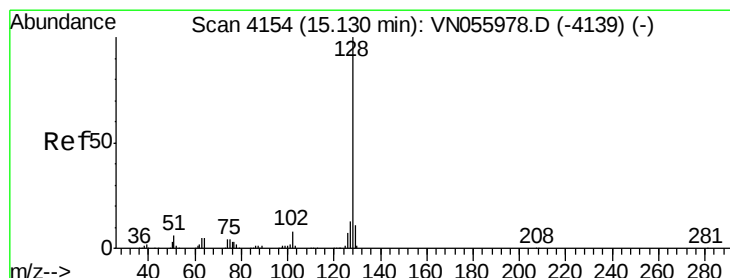
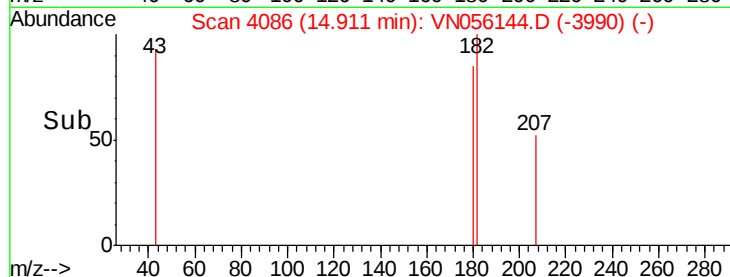
Tot Ion:180 Resp: 58
 Ion Ratio Lower Upper
 180 100
 182 298.3 48.3 144.9#
 145 0.0 14.0 41.9#



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

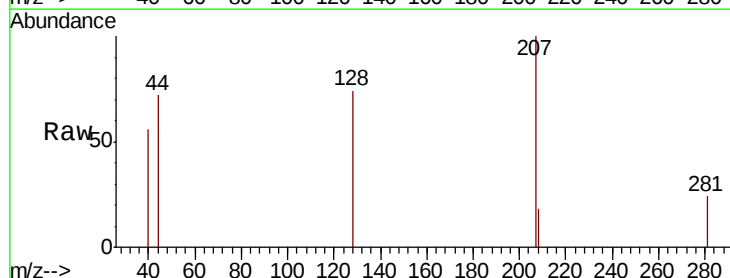


Time-->

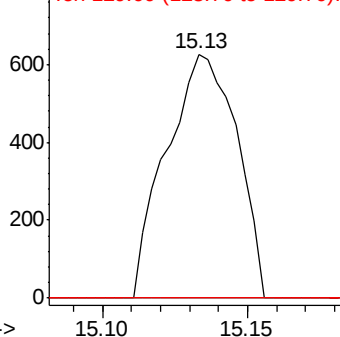


#95
 Naphthalene
 Concen: 3.987 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN056144.D
 Acq: 8 Jun 2019 11:12

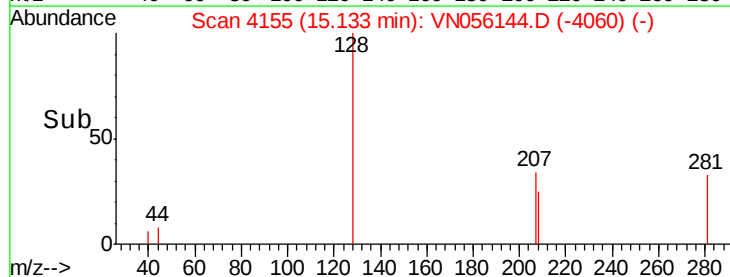
Tgt Ion:128 Resp: 1056
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.3 15.5#
 129 0.0 8.7 13.1#

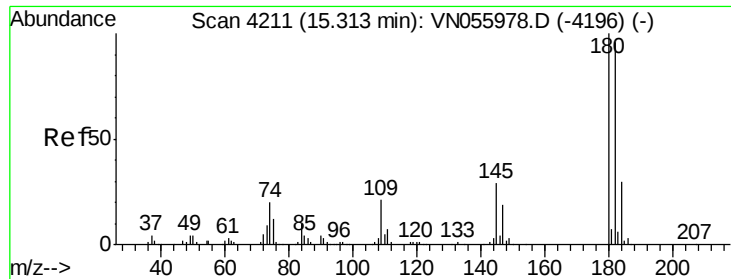


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V



Time-->





#96
 1,2,3-Trichlorobenzene
 Concen: 3.098 ug/l
 RT: 15.31 min Scan# 4209
 Delta R.T. -0.01 min
 Lab File: VN056144.D
 Acq: 8 Jun 2019 11:12

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 200
 Ion Ratio Lower Upper
 180 100
 182 99.0 47.9 143.7
 145 0.0 14.9 44.7#

