

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091419\
 Data File : VN058058.D
 Acq On : 14 Sep 2019 7:50
 Operator : JC/SP
 Sample : K4825-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 61 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

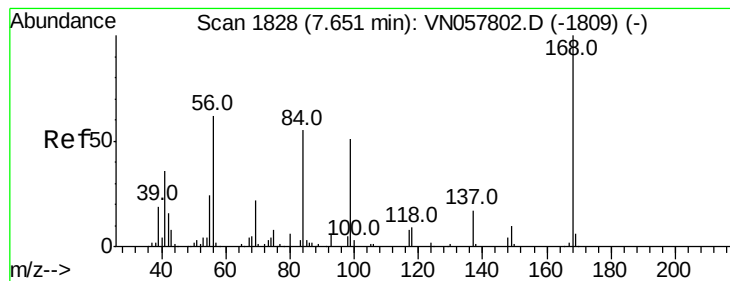
Quant Time: Sep 16 01:56:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	339325	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	579207	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	531069	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	278789	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	390562	56.83	ug/l	0.00
Spiked Amount			Recovery	=	113.66%	
35) Dibromofluoromethane	7.58	113	259081	48.46	ug/l	0.00
Spiked Amount			Recovery	=	96.92%	
50) Toluene-d8	10.09	98	1060419	51.09	ug/l	0.00
Spiked Amount			Recovery	=	102.18%	
62) 4-Bromofluorobenzene	12.41	95	346771	43.84	ug/l	0.00
Spiked Amount			Recovery	=	87.68%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	336	Below Cal	#	2
16) Acetone	3.80	43	12797	5.680	ug/l	96
17) Carbon Disulfide	4.04	76	306	0.213	ug/l #	75
18) Methyl Acetate	4.31	43	10201	1.698	ug/l	98
20) Methylene Chloride	4.53	84	80881	18.071	ug/l	97
31) Cyclohexane	7.65	56	8578	Below Cal	#	18
36) 1,1-Dichloropropene	7.65	75	29090	4.331	ug/l #	51
38) Carbon Tetrachloride	7.65	117	33729	5.500	ug/l #	15
43) Isopropyl Acetate	8.16	43	128143	10.979	ug/l #	83
45) 1,2-Dichloropropane	9.26	63	1970	0.335	ug/l #	44
48) Methyl methacrylate	9.17	41	6592	1.113	ug/l #	13
49) 1,4-Dioxane	9.26	88	101	1.009	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	7839	1.135	ug/l	96
54) cis-1,3-Dichloropropene	9.90	75	41823	5.066	ug/l #	69
57) 1,3-Dichloropropane	10.76	76	7218	0.776	ug/l #	43
59) 2-Hexanone	10.76	43	103864	20.063	ug/l #	53
71) Bromoform	12.41	173	1787	0.594	ug/l #	1
74) N-amyl acetate	12.03	43	5624	0.597	ug/l #	49
76) 1,2,3-Trichloropropane	12.41	75	191827	30.416	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	191827	107.036	ug/l #	6
95) Naphthalene	15.13	128	2853	Below Cal	#	79
96) 1,2,3-Trichlorobenzene	15.30	180	459	1.078	ug/l #	56

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058058.D

Acq: 14 Sep 2019 7:50

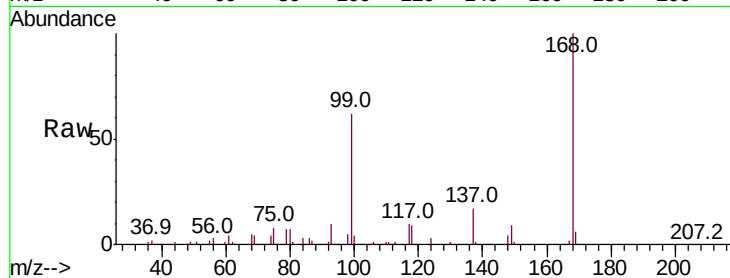
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 339325

Ion Ratio Lower Upper

168 100

99 61.8 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

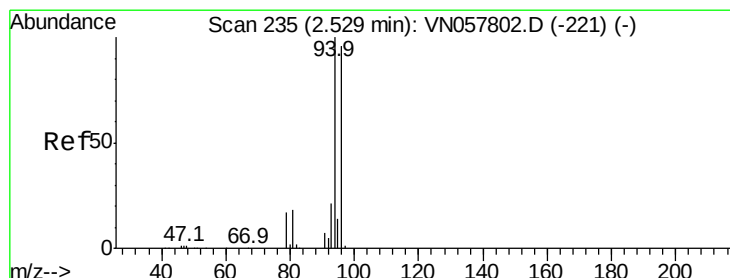
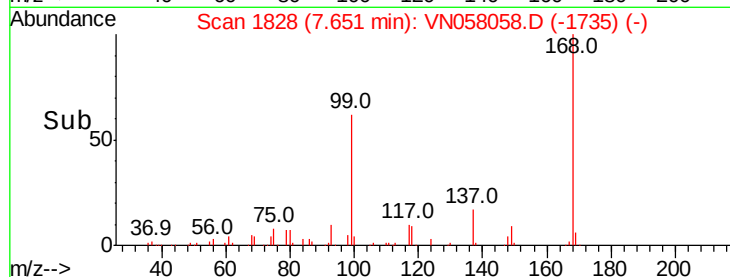
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 244

Delta R.T. 0.03 min

Lab File: VN058058.D

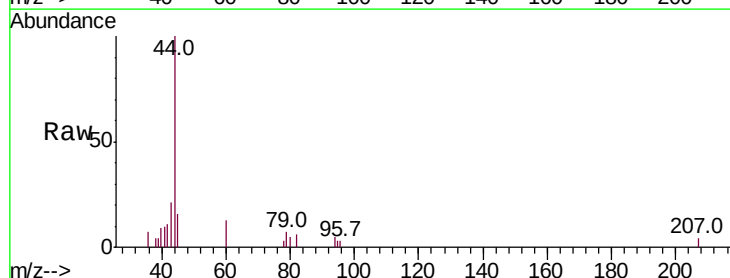
Acq: 14 Sep 2019 7:50

Tgt Ion: 94 Resp: 336

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.56

400

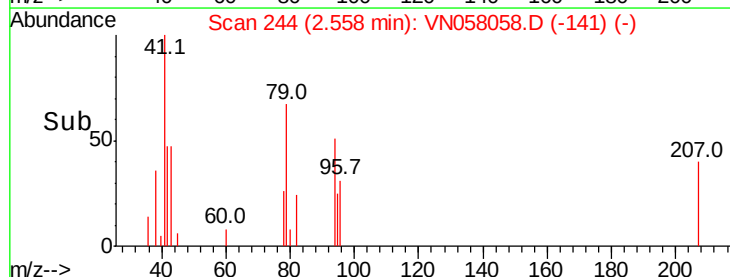
300

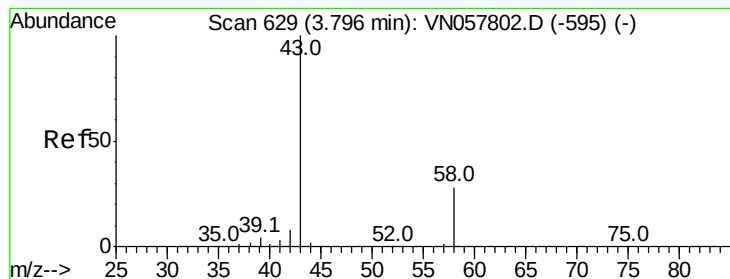
200

100

0

Time--> 2.54 2.56 2.58





#16

Acetone

Concen: 5.680 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058058.D

Acq: 14 Sep 2019 7:50

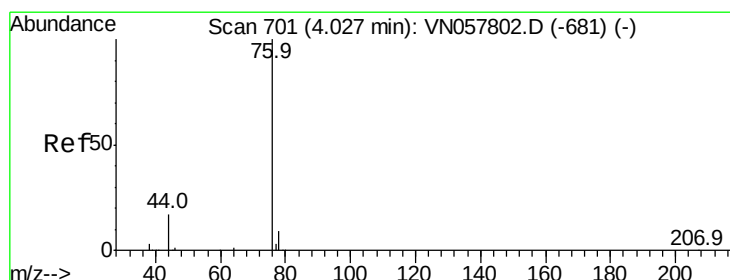
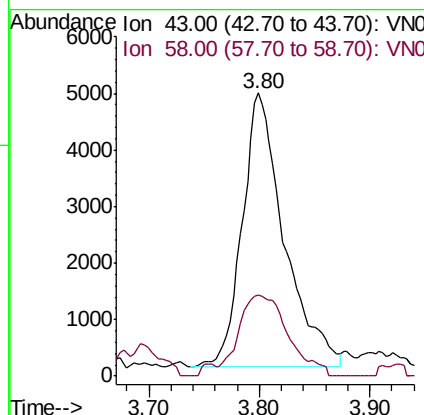
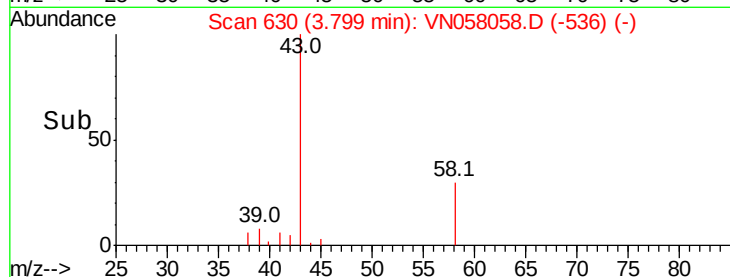
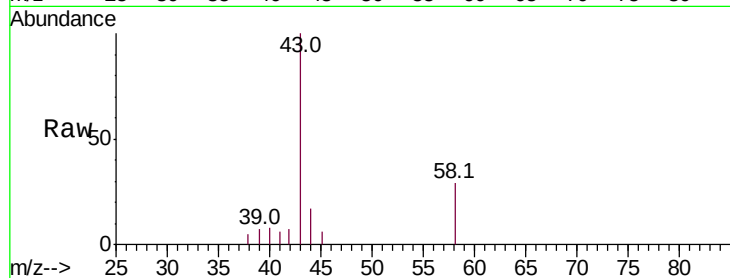
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 12797

Ion Ratio Lower Upper

43 100

58 29.8 22.2 33.2



#17

Carbon Disulfide

Concen: 0.213 ug/l

RT: 4.04 min Scan# 706

Delta R.T. 0.02 min

Lab File: VN058058.D

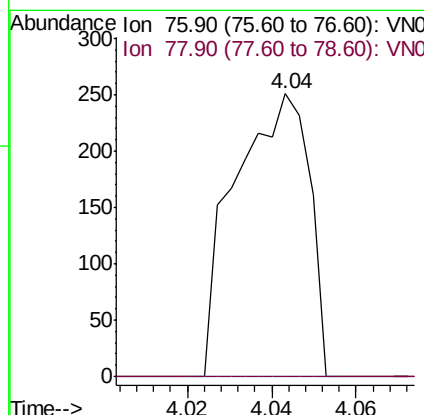
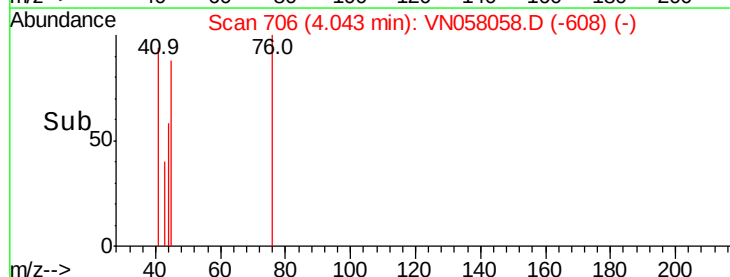
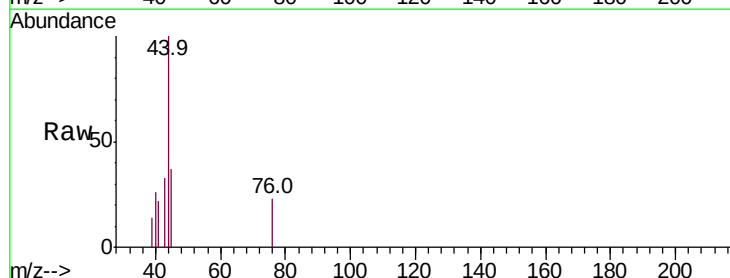
Acq: 14 Sep 2019 7:50

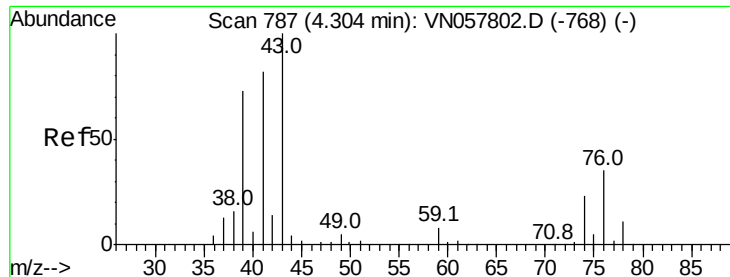
Tgt Ion: 76 Resp: 306

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#

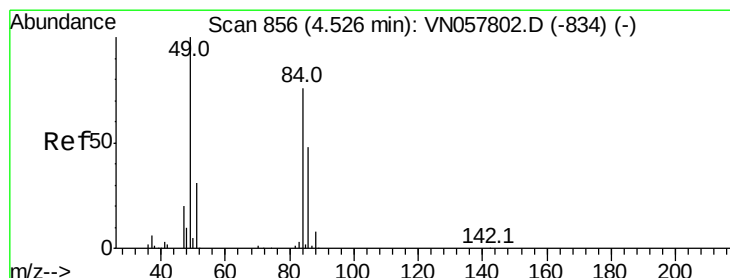
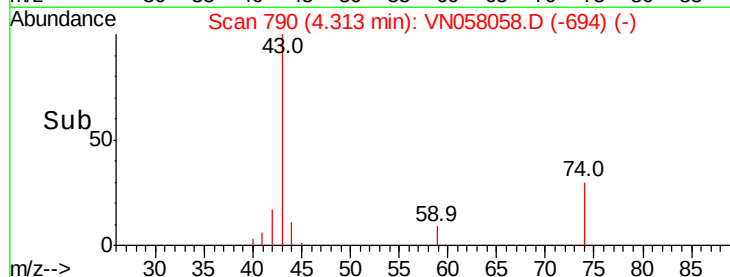
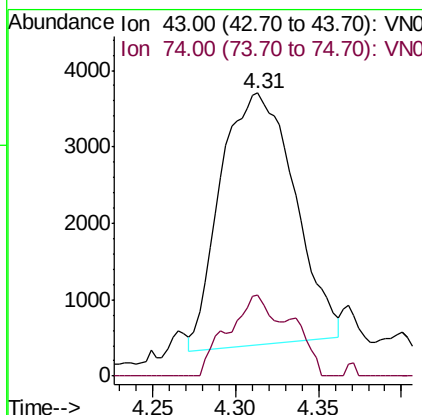
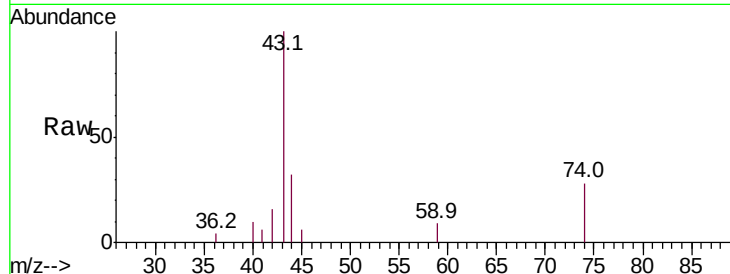




#18
Methyl Acetate
Concen: 1.698 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN058058.D
Acq: 14 Sep 2019 7:50

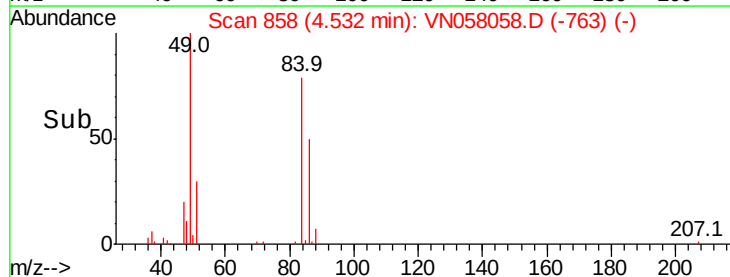
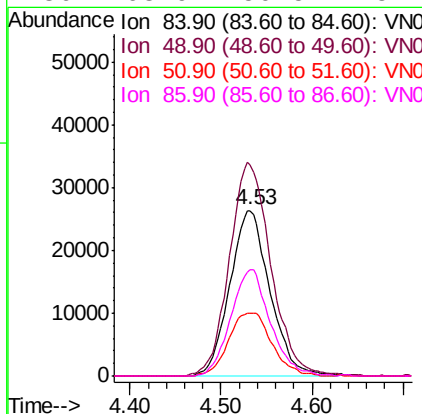
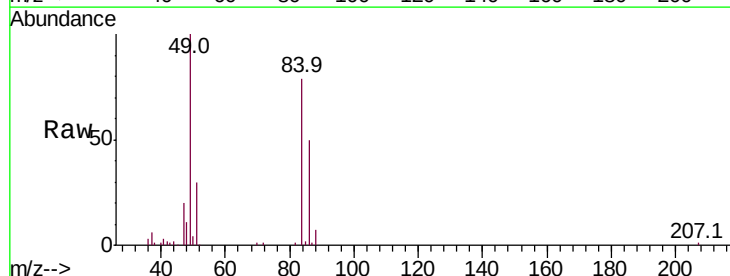
Instrument :
MSVOA_N
ClientSampleId :

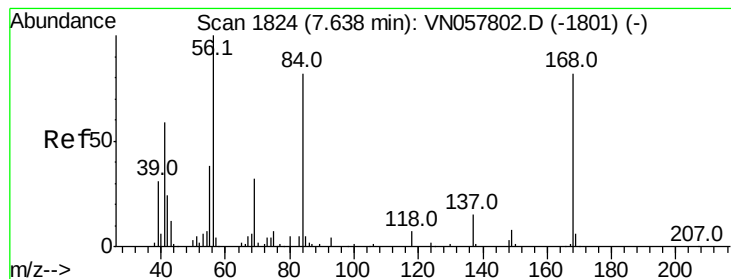
Tot Ion: 43 Resp: 10201
Ion Ratio Lower Upper
43 100
74 21.2 17.9 26.9



#20
Methylene Chloride
Concen: 18.071 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN058058.D
Acq: 14 Sep 2019 7:50

Tgt Ion: 84 Resp: 80881
Ion Ratio Lower Upper
84 100
49 126.5 104.8 157.2
51 38.3 33.0 49.4
86 63.9 50.5 75.7





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058058.D

Acq: 14 Sep 2019 7:50

Instrument :

MSVOA_N

ClientSampleId :

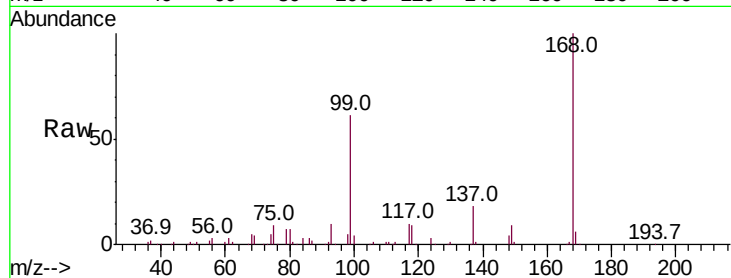
Tot Ion: 56 Resp: 8578

Ion Ratio Lower Upper

56 100

69 148.9 25.9 38.9#

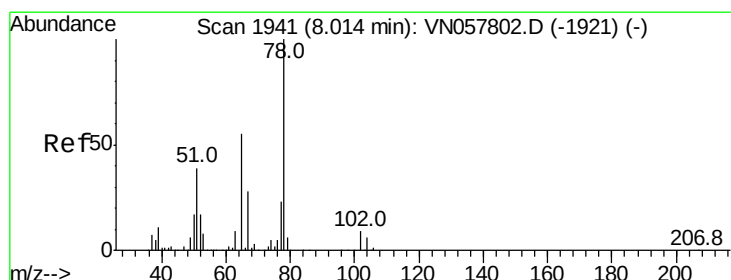
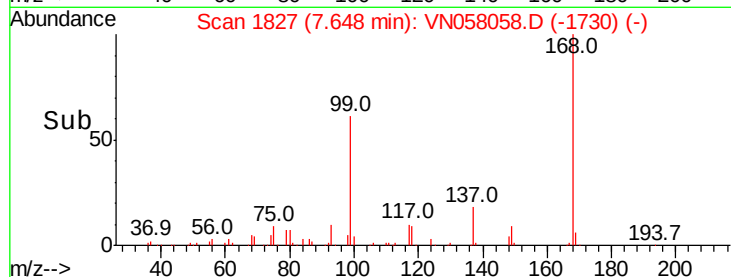
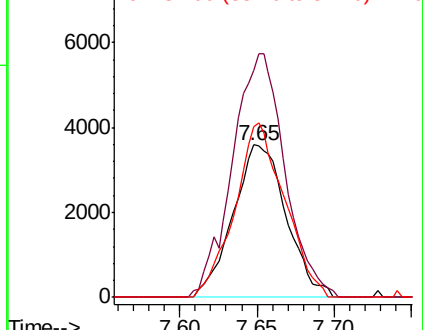
84 111.4 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC



#33

1,2-Dichloroethane-d4

Concen: 56.828 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058058.D

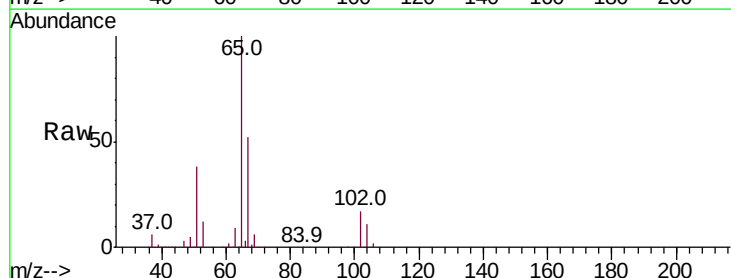
Acq: 14 Sep 2019 7:50

Tgt Ion: 65 Resp: 390562

Ion Ratio Lower Upper

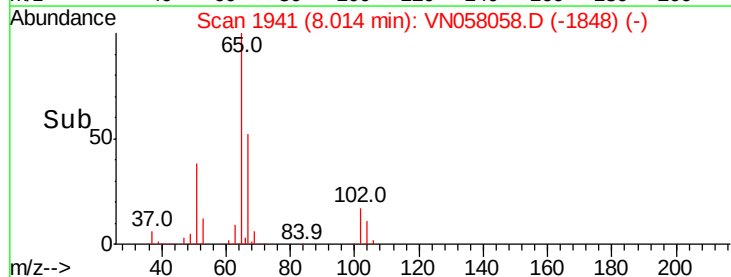
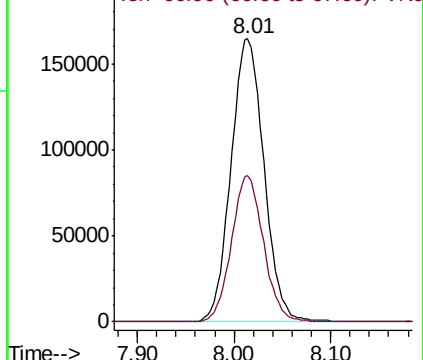
65 100

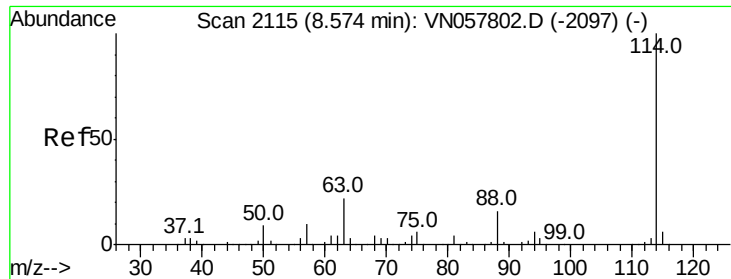
67 50.2 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VNC

Ion 66.90 (66.60 to 67.60): VNC

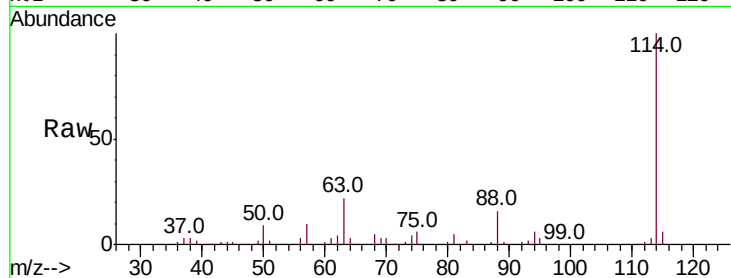




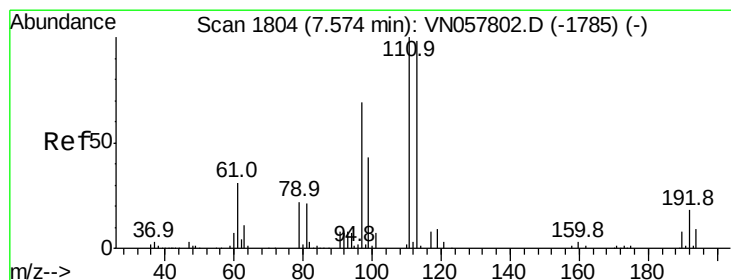
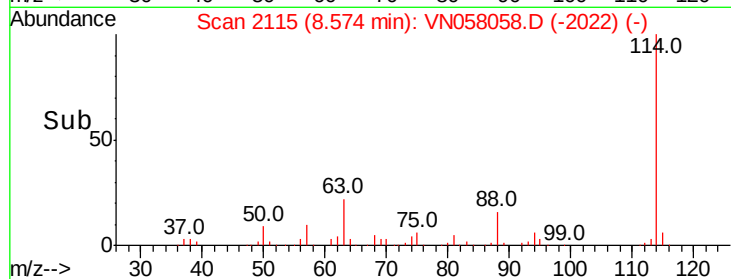
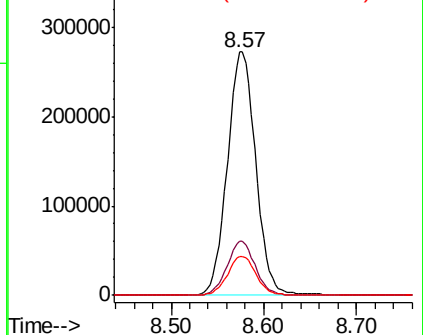
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058058.D
 Acq: 14 Sep 2019 7:50

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	16.1	0.0	31.4

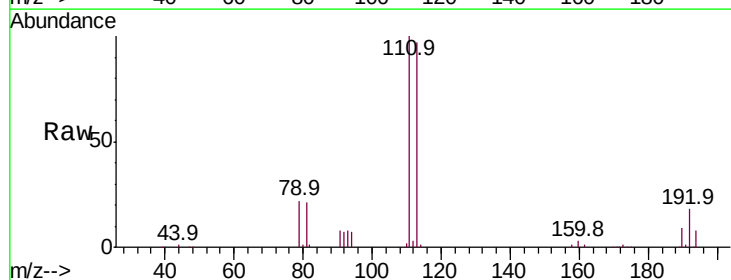


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

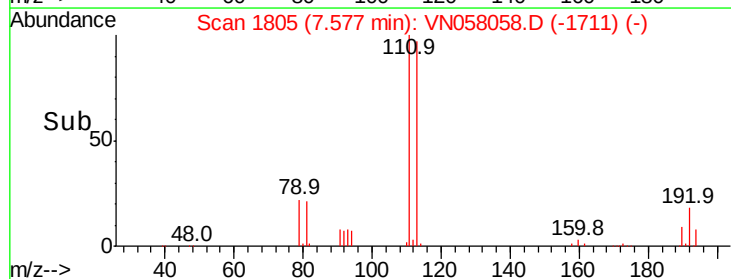
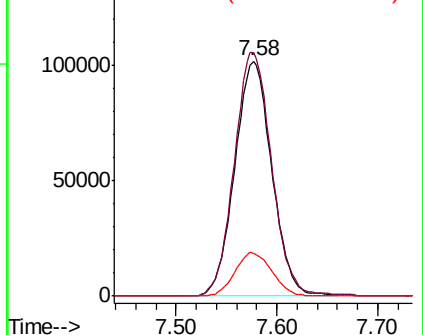


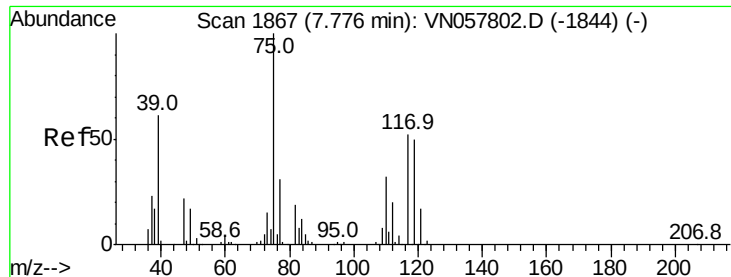
#35
 Dibromofluoromethane
 Concen: 48.464 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058058.D
 Acq: 14 Sep 2019 7:50

Tgt Ion	Ratio	Lower	Upper
113	100		
111	105.2	81.3	121.9
192	18.6	14.6	22.0



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: 4.331 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN058058.D

Acq: 14 Sep 2019 7:50

Instrument :

MSVOA_N

ClientSampled :

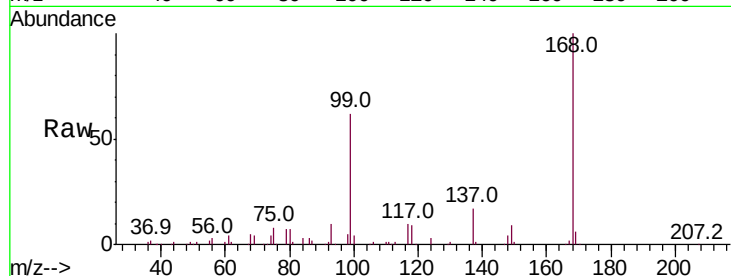
Tot Ion: 75 Resp: 29090

Ion Ratio Lower Upper

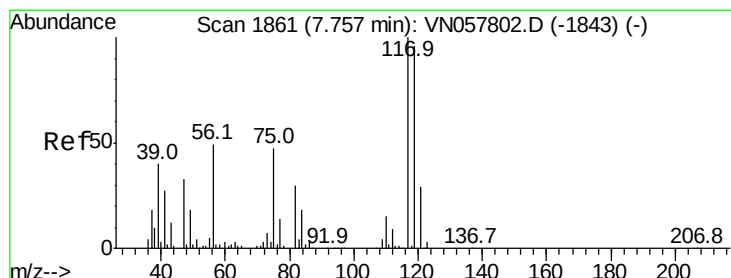
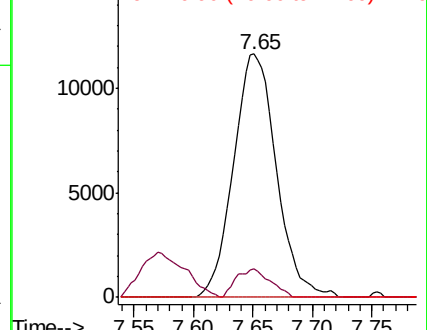
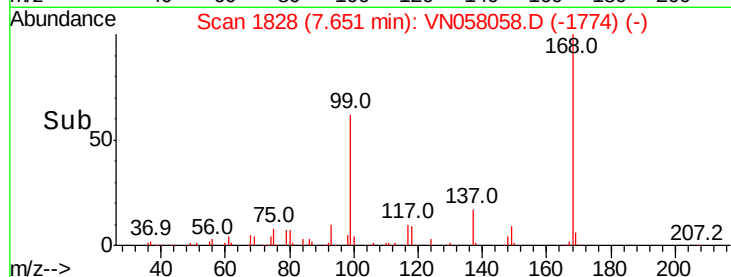
75 100

110 9.2 16.3 48.9#

77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN058058.D (-1774) (-)



#38

Carbon Tetrachloride

Concen: 5.500 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058058.D

Acq: 14 Sep 2019 7:50

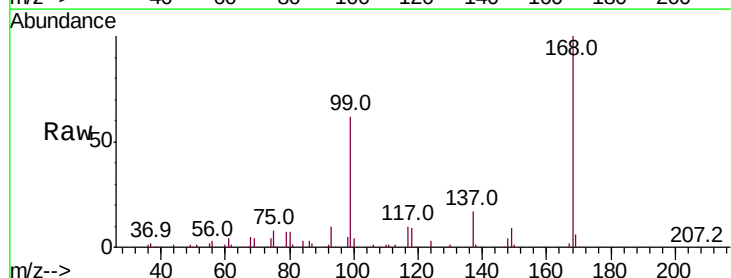
Tgt Ion: 117 Resp: 33729

Ion Ratio Lower Upper

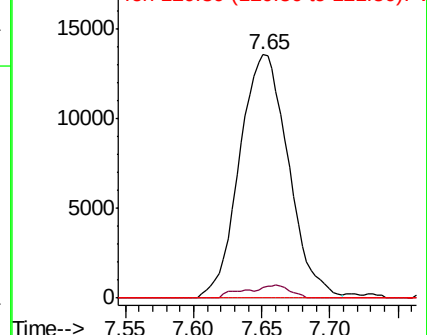
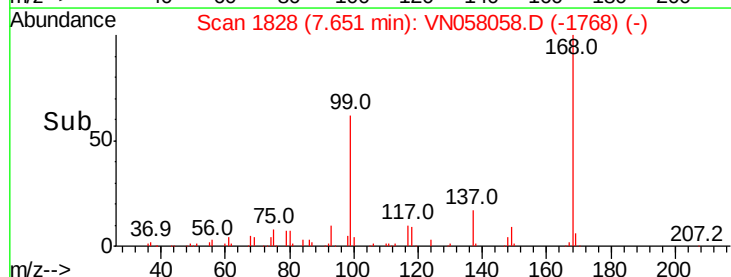
117 100

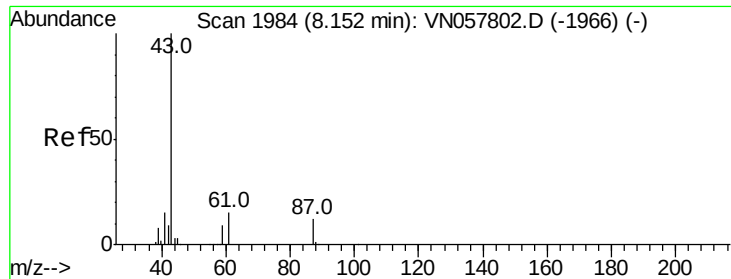
119 4.2 76.9 115.3#

121 0.0 23.4 35.2#



Abundance Ion 116.80 (116.50 to 117.50): VN058058.D (-1768) (-)





#43

Isopropyl Acetate

Concen: 10.979 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN058058.D

Acq: 14 Sep 2019 7:50

Instrument :

MSVOA_N

ClientSampleId :

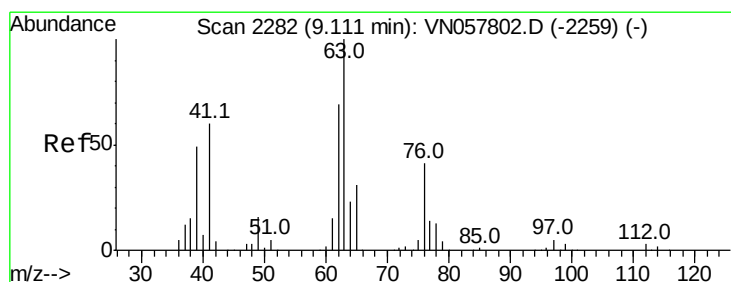
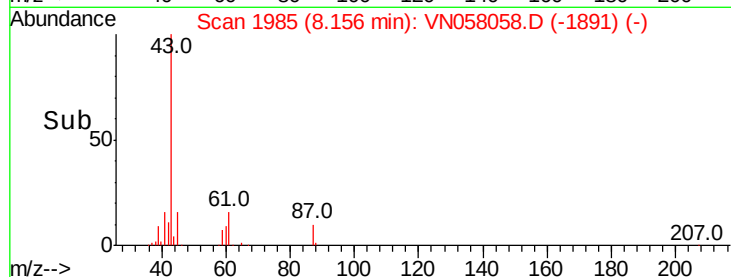
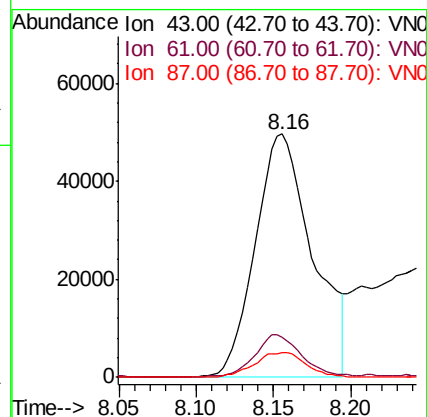
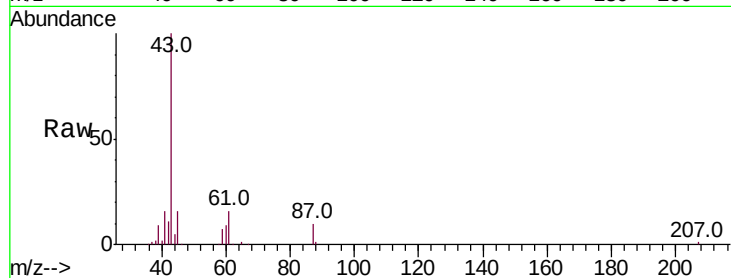
Tot Ion: 43 Resp: 128143

Ion Ratio Lower Upper

43 100

61 14.5 20.1 30.1#

87 9.1 9.5 14.3#



#45

1,2-Dichloropropane

Concen: 0.335 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN058058.D

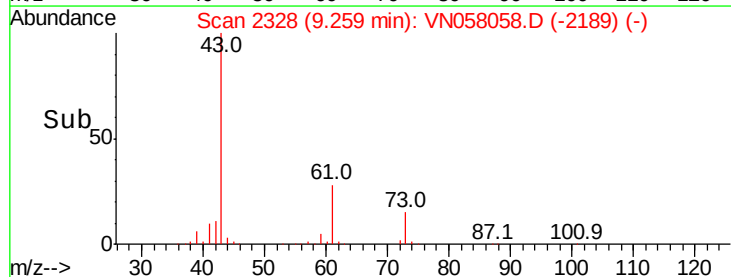
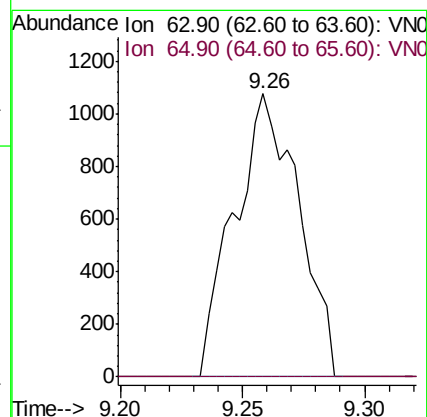
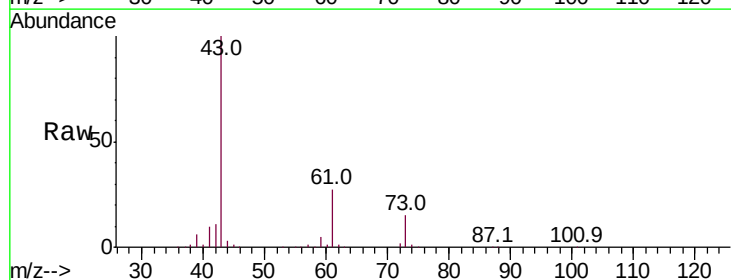
Acq: 14 Sep 2019 7:50

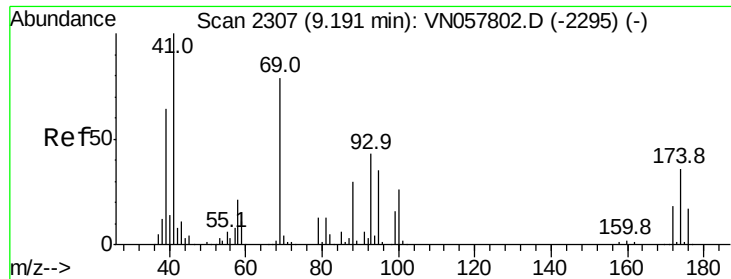
Tgt Ion: 63 Resp: 1970

Ion Ratio Lower Upper

63 100

65 0.0 24.8 37.2#

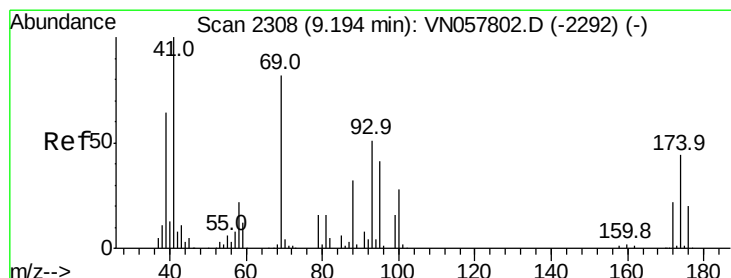
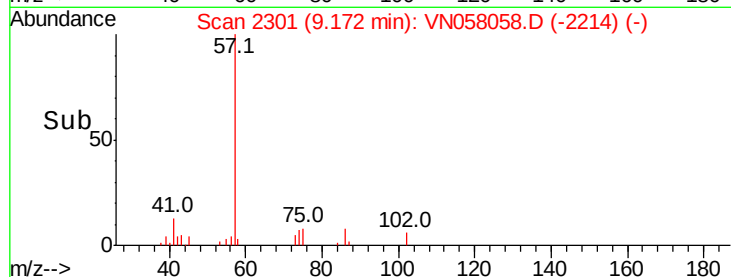
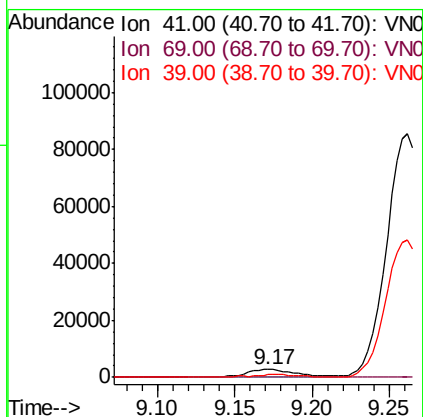
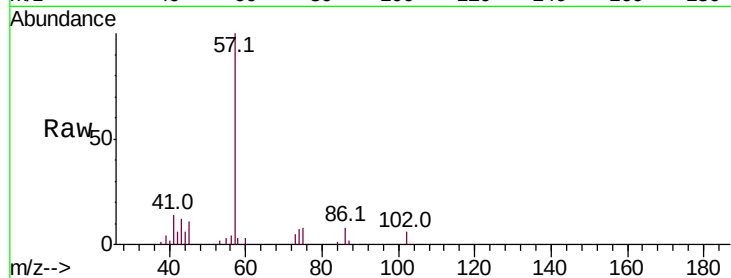




#48
Methvl methacrylate
Concen: 1.113 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.02 min
Lab File: VN058058.D
Acq: 14 Sep 2019 7:50

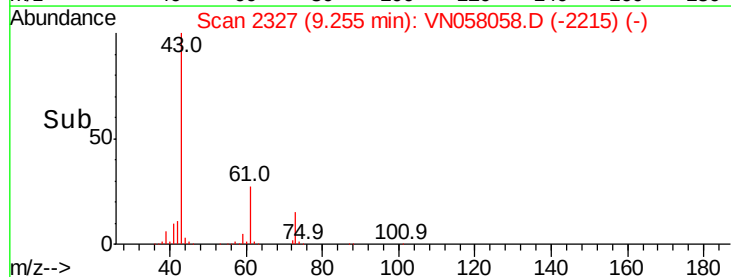
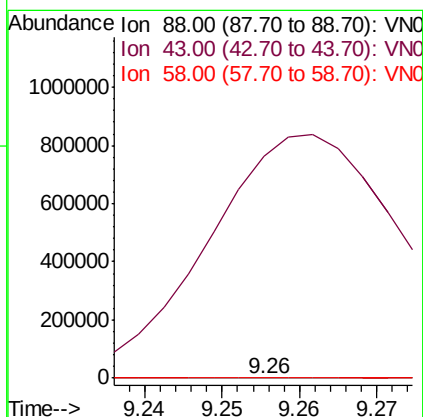
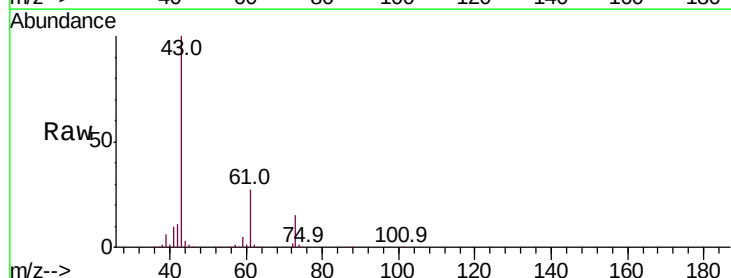
Instrument :
MSVOA_N
ClientSampleId :

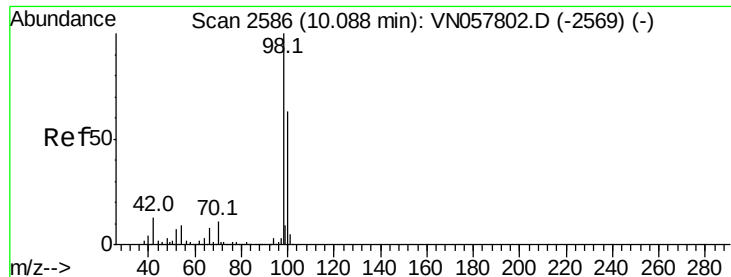
Tot Ion: 41 Resp: 6592
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#49
1,4-Dioxane
Concen: 1.009 ug/l
RT: 9.26 min Scan# 2327
Delta R.T. 0.06 min
Lab File: VN058058.D
Acq: 14 Sep 2019 7:50

Tgt Ion: 88 Resp: 101
Ion Ratio Lower Upper
88 100
43 1527005.0 28.5 42.7#
58 7023.8 55.8 83.6#





#50

Toluene-d8

Concen: 51.091 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN058058.D

Acq: 14 Sep 2019 7:50

Instrument :

MSVOA_N

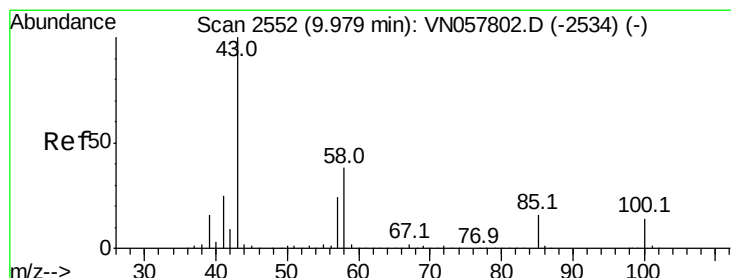
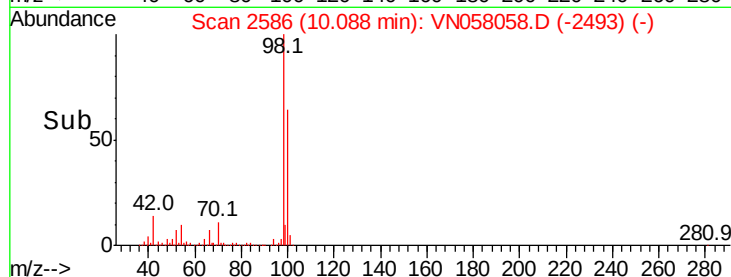
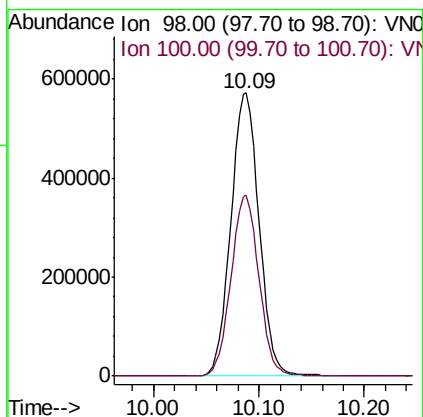
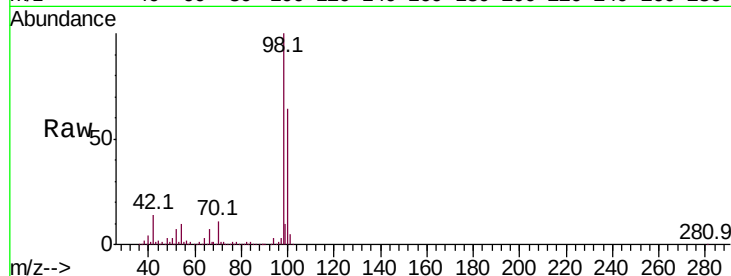
ClientSampleId :

Tot Ion: 98 Resp: 1060419

Ion Ratio Lower Upper

98 100

100 63.1 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 1.135 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058058.D

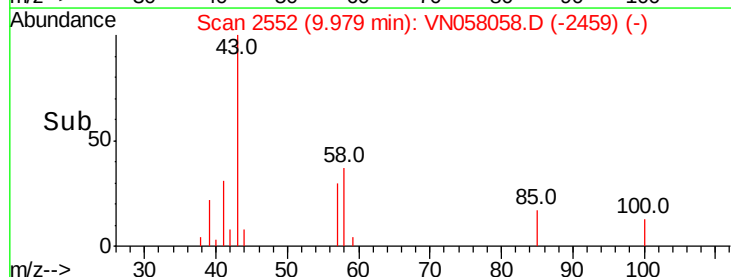
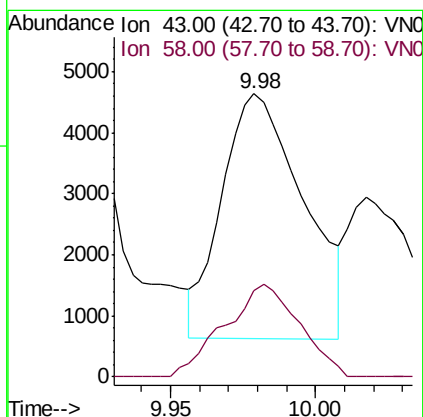
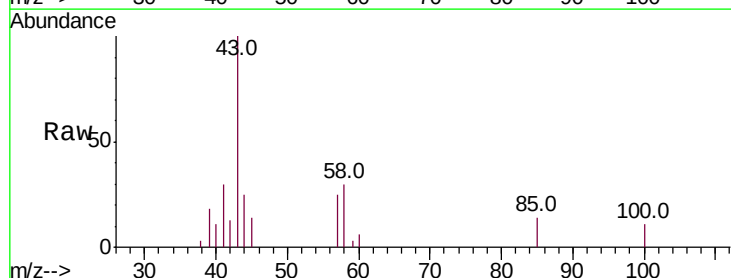
Acq: 14 Sep 2019 7:50

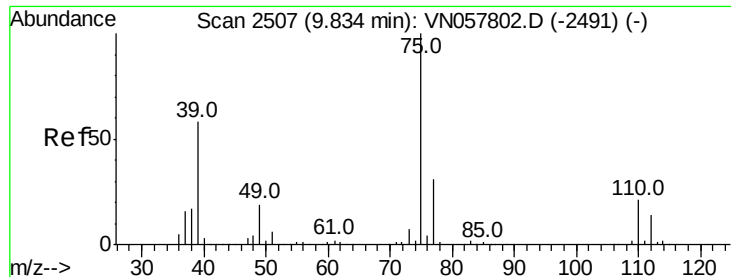
Tgt Ion: 43 Resp: 7839

Ion Ratio Lower Upper

43 100

58 34.7 29.8 44.6



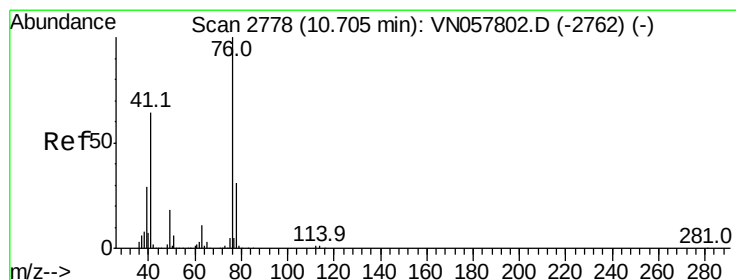
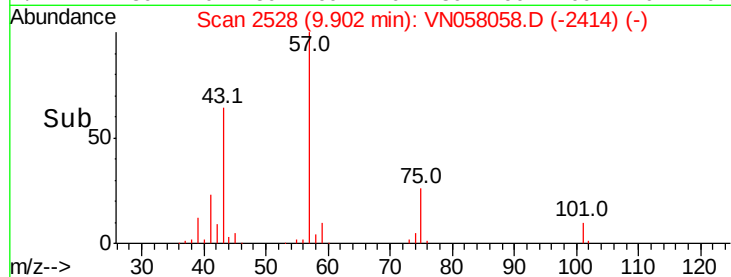
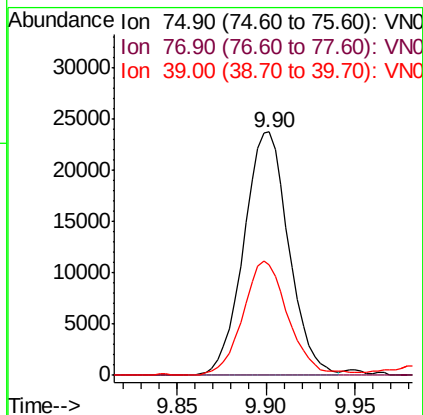
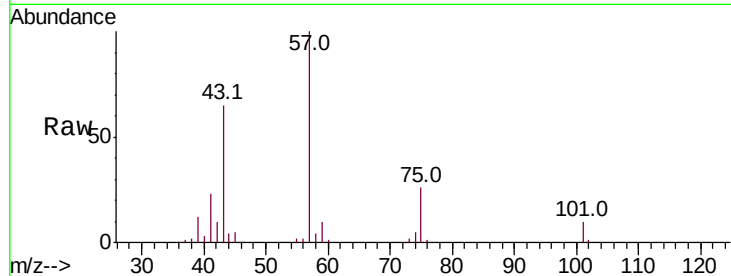


#54

cis-1,3-Dichloropropene
 Concen: 5.066 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN058058.D
 Acq: 14 Sep 2019 7:50

Instrument :
 MSVOA_N
 ClientSampled :

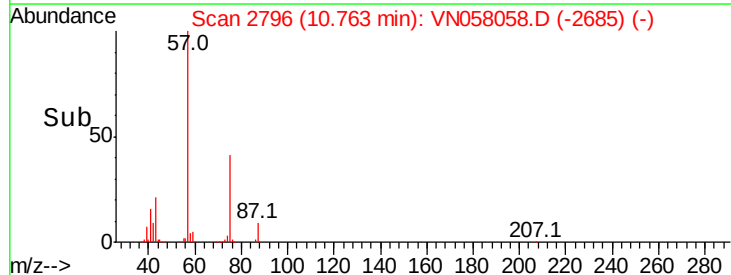
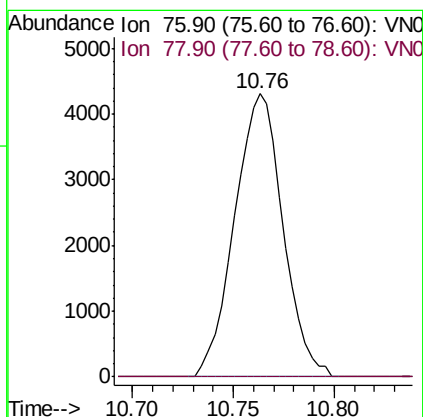
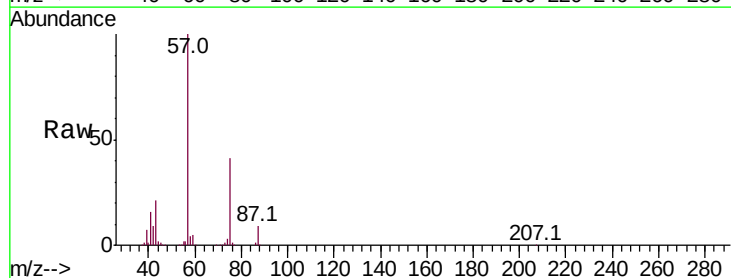
Tot Ion: 75 Resp: 41823
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 45.2 46.2 69.4#

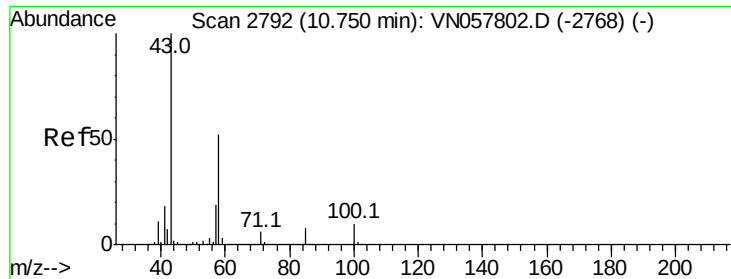


#57

1,3-Dichloropropane
 Concen: 0.776 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN058058.D
 Acq: 14 Sep 2019 7:50

Tgt Ion: 76 Resp: 7218
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#





#59

2-Hexanone

Concen: 20.063 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058058.D

Acq: 14 Sep 2019 7:50

Instrument :

MSVOA_N

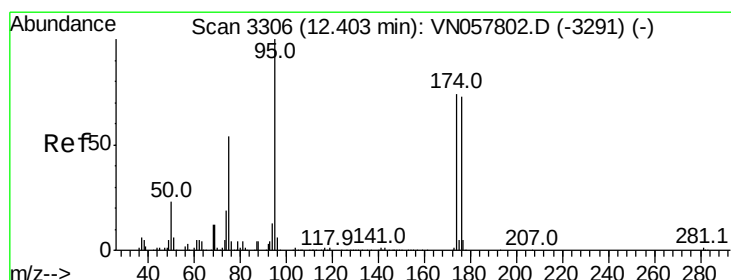
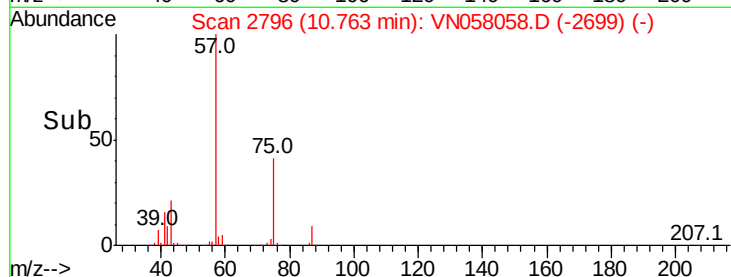
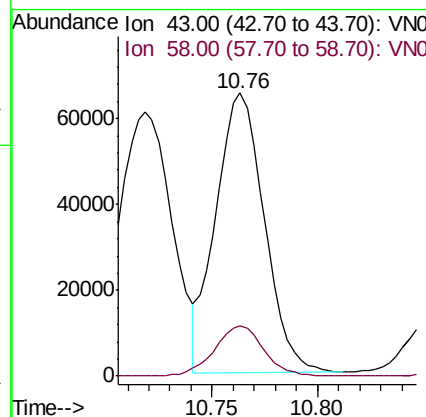
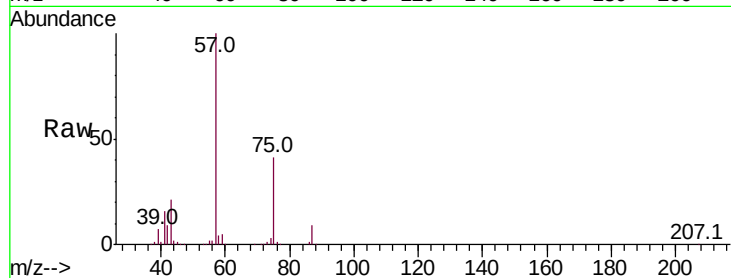
ClientSampleId :

Tot Ion: 43 Resp: 103864

Ion Ratio Lower Upper

43 100

58 18.3 25.6 76.8#



#62

4-Bromofluorobenzene

Concen: 43.841 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058058.D

Acq: 14 Sep 2019 7:50

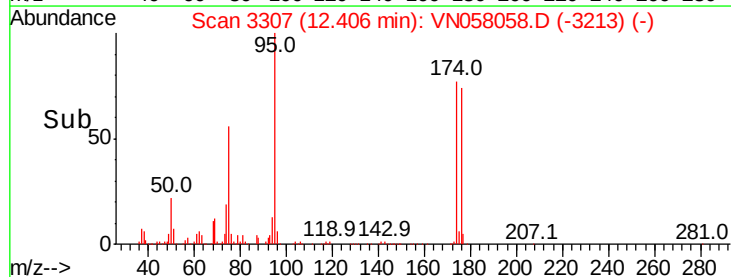
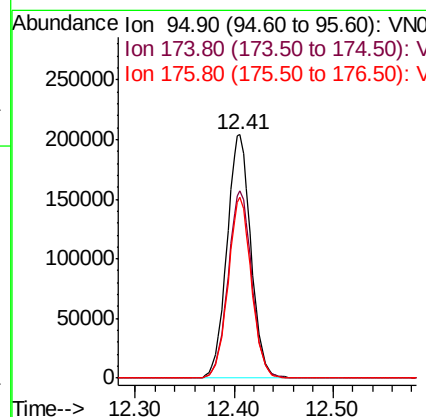
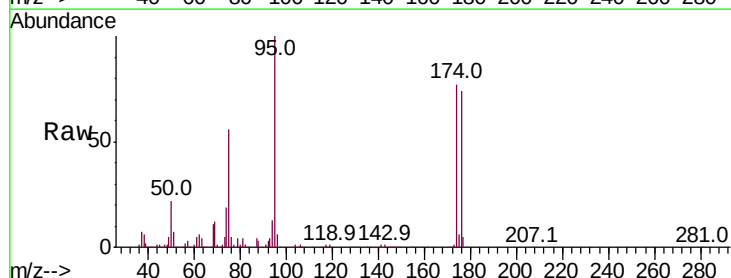
Tgt Ion: 95 Resp: 346771

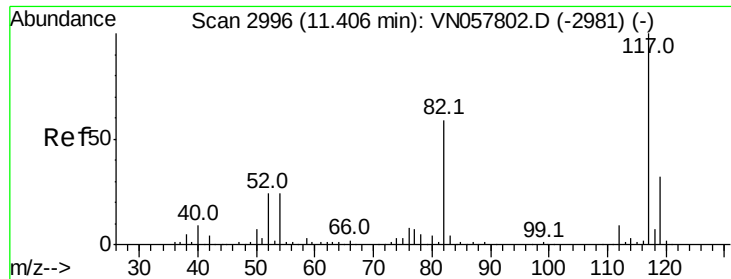
Ion Ratio Lower Upper

95 100

174 76.2 0.0 150.2

176 72.2 0.0 146.0

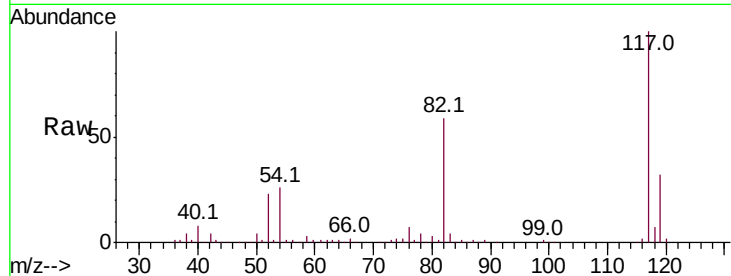




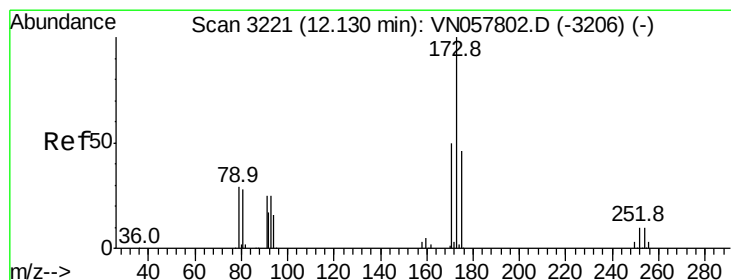
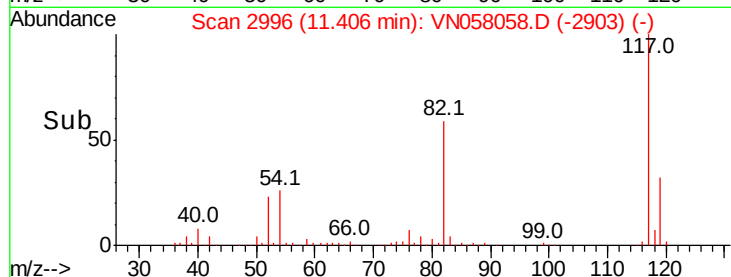
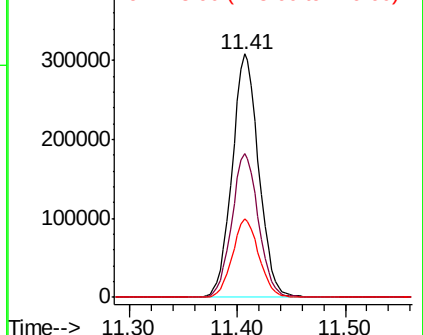
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058058.D
Acq: 14 Sep 2019 7:50

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 531069
Ion Ratio Lower Upper
117 100
82 59.1 47.2 70.8
119 32.1 25.3 37.9

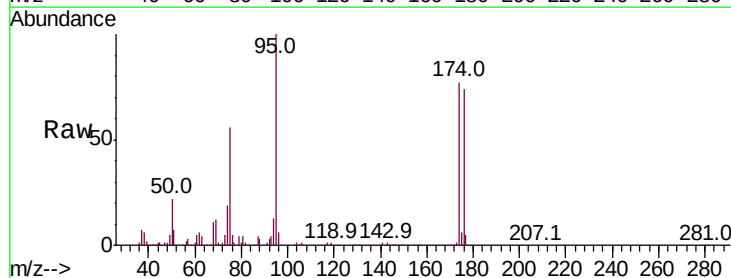


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

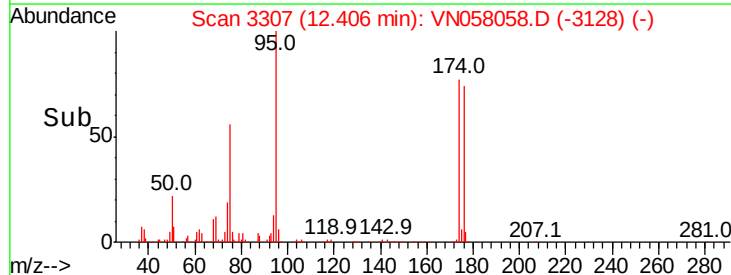
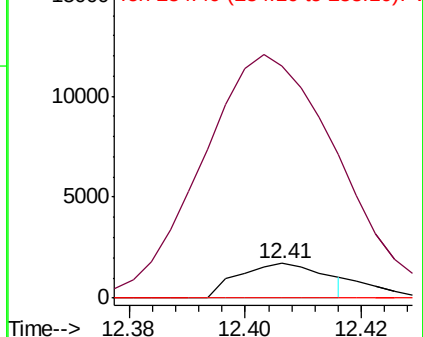


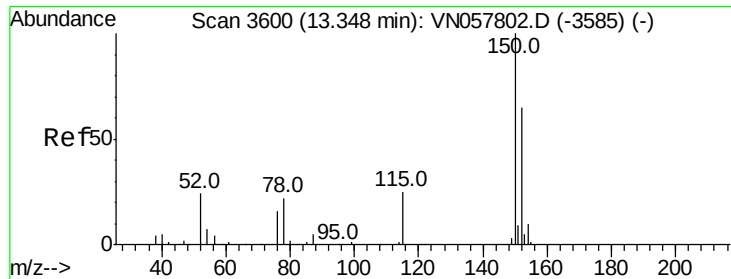
#71
Bromoform
Concen: 0.594 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN058058.D
Acq: 14 Sep 2019 7:50

Tgt Ion:173 Resp: 1787
Ion Ratio Lower Upper
173 100
175 976.4 23.5 70.6#
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058058.D

Acq: 14 Sep 2019 7:50

Instrument :

MSVOA_N

ClientSampleId :

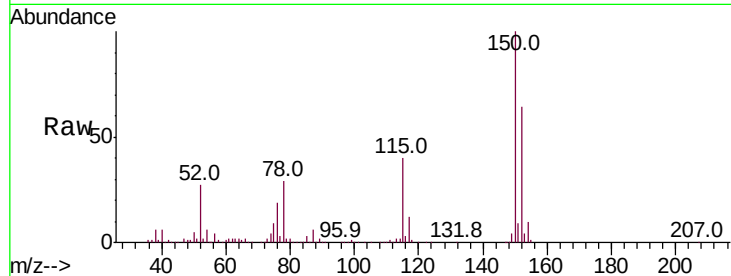
Tot Ion:152 Resp: 278789

Ion Ratio Lower Upper

152 100

115 61.4 30.3 91.0

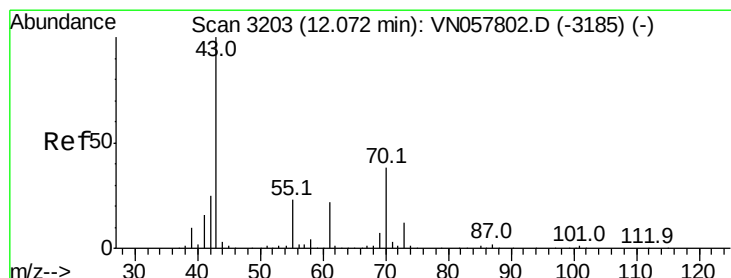
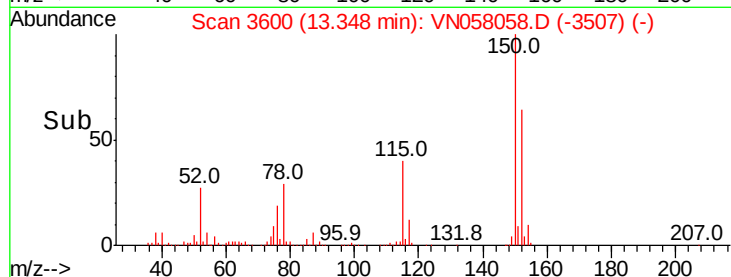
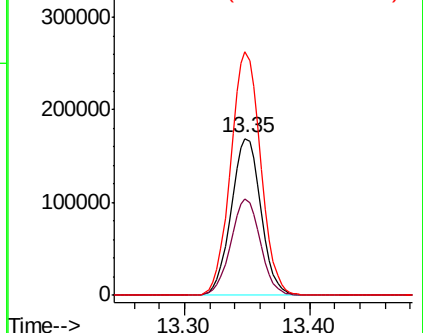
150 156.6 0.0 352.4



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: 0.597 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058058.D

Acq: 14 Sep 2019 7:50

Tgt Ion: 43 Resp: 5624

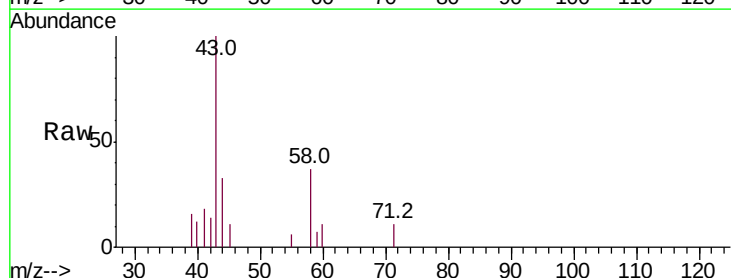
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 5.2 18.6 27.8#

61 0.0 17.4 26.2#

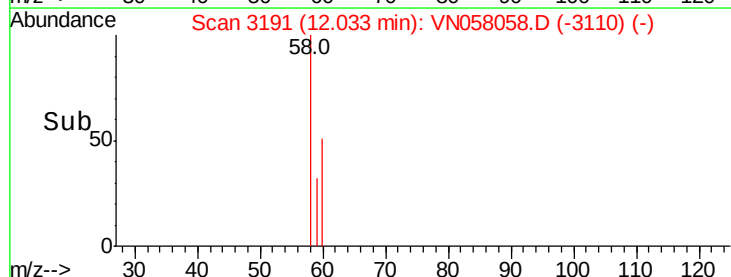
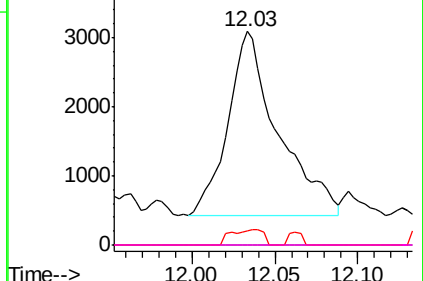


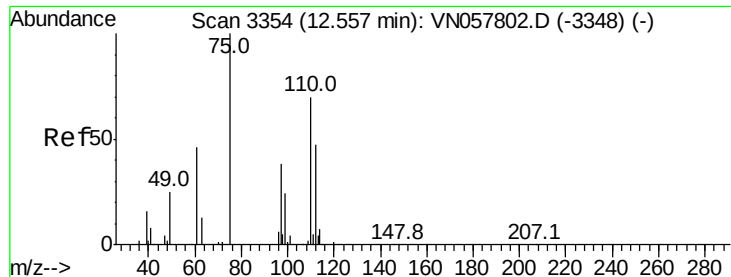
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 30.416 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058058.D

Acq: 14 Sep 2019 7:50

Instrument :

MSVOA_N

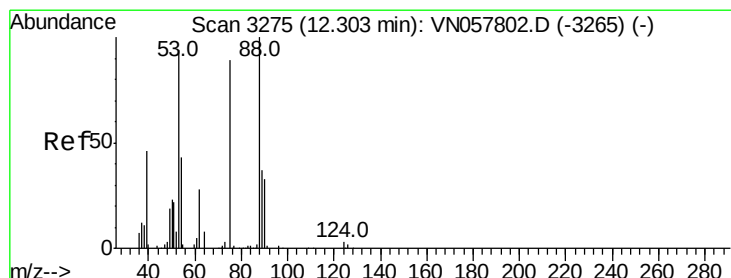
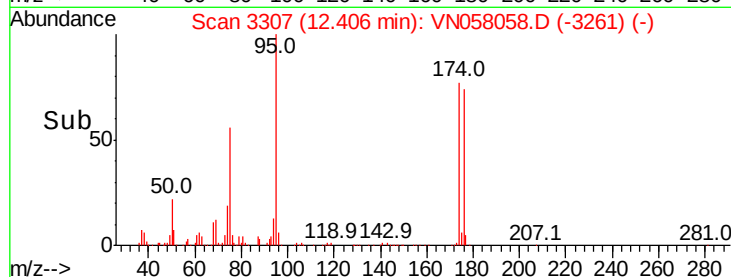
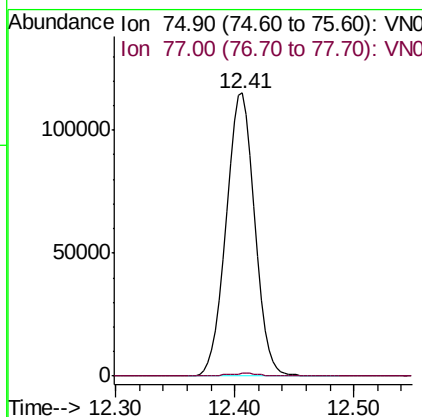
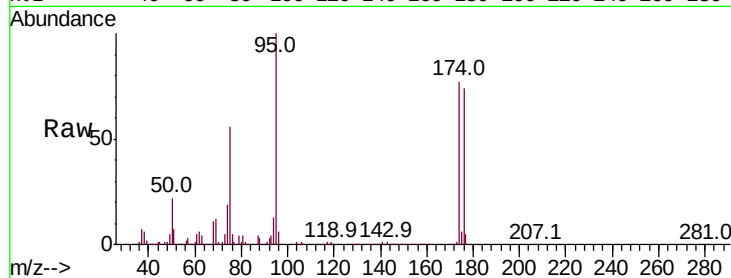
ClientSampled :

Tot Ion: 75 Resp: 191827

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 107.036 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058058.D

Acq: 14 Sep 2019 7:50

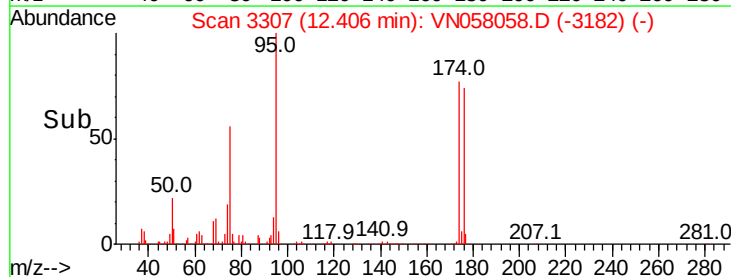
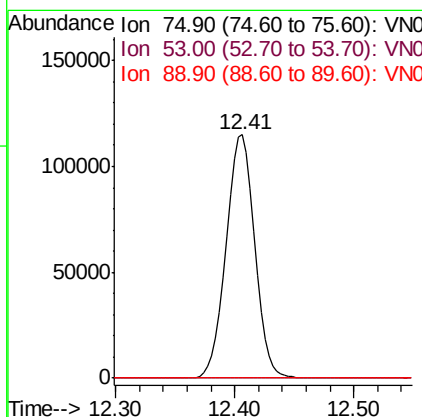
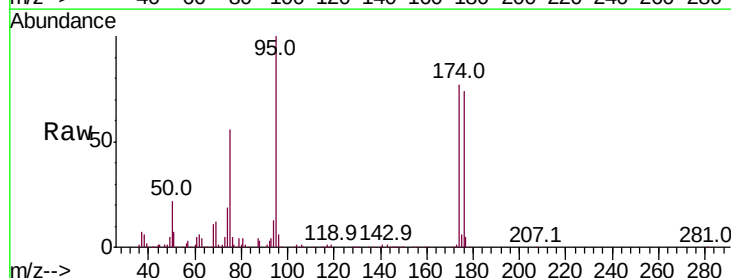
Tgt Ion: 75 Resp: 191827

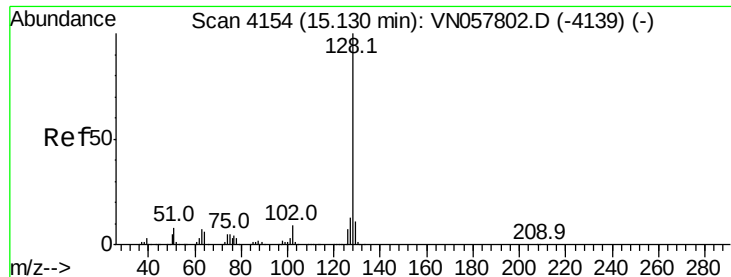
Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 35.3 52.9#





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058058.D

Acq: 14 Sep 2019 7:50

Instrument :

MSVOA_N

ClientSampleId :

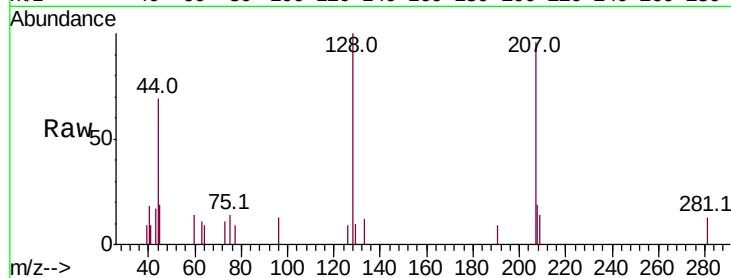
Tot Ion:128 Resp: 2853

Ion Ratio Lower Upper

128 100

127 3.9 10.3 15.5#

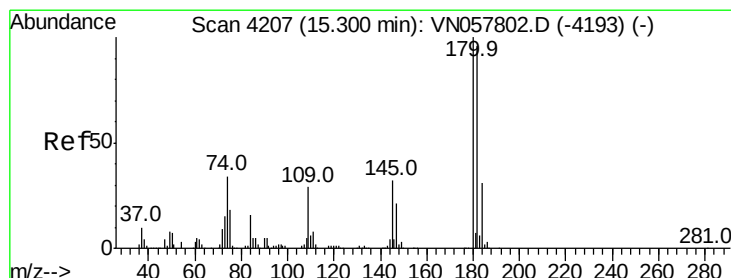
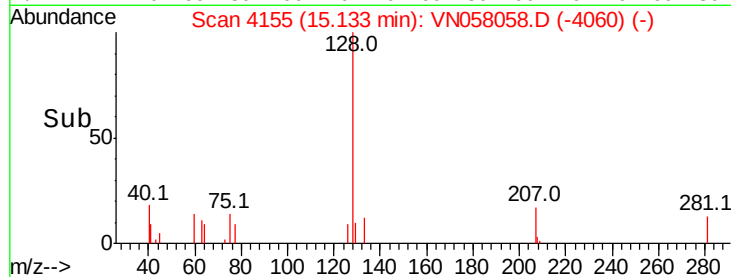
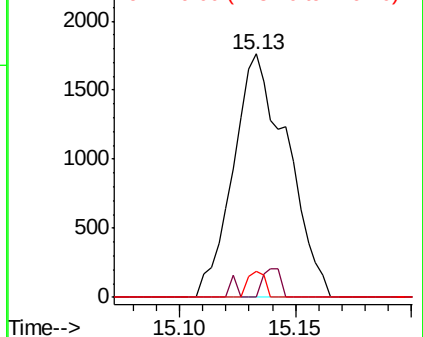
129 3.4 8.6 12.8#



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: 1.078 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. -0.00 min

Lab File: VN058058.D

Acq: 14 Sep 2019 7:50

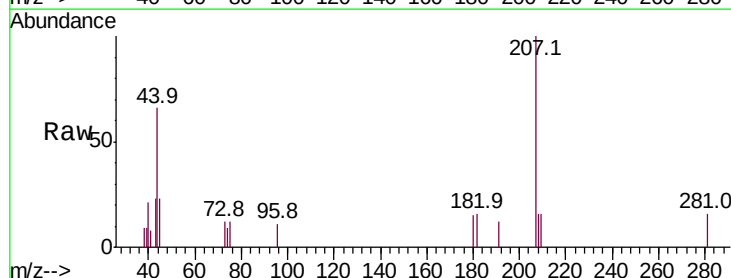
Tgt Ion:180 Resp: 459

Ion Ratio Lower Upper

180 100

182 50.1 48.3 144.8

145 13.7 16.3 48.8#



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

