

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091519\
 Data File : VN058100.D
 Acq On : 15 Sep 2019 18:19
 Operator : JC/SP
 Sample : K4719-23
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 16 03:43:07 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	311570	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	536246	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	486716	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	260229	50.00	ug/l	0.00

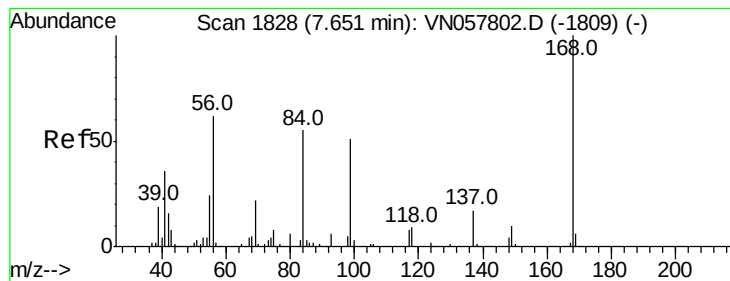
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	362190	57.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.78%	
35) Dibromofluoromethane	7.58	113	250544	50.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.24%	
50) Toluene-d8	10.09	98	977854	50.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.78%	
62) 4-Bromofluorobenzene	12.40	95	326125	44.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.06%	

Target Compounds

					Qvalue
5) Bromomethane	2.56	94	222	Below Cal	88
16) Acetone	3.80	43	27391	13.240 ug/l	95
18) Methyl Acetate	4.31	43	6756	1.225 ug/l #	59
20) Methylene Chloride	4.53	84	12184	1.910 ug/l	90
25) 2-Butanone	6.84	43	1862	0.622 ug/l #	63
29) Tetrahydrofuran	7.20	42	1027	0.557 ug/l #	71
31) Cyclohexane	7.65	56	8466	Below Cal #	21
36) 1,1-Dichloropropene	7.65	75	26059	4.190 ug/l #	51
38) Carbon Tetrachloride	7.65	117	32131	5.659 ug/l #	16
43) Isopropyl Acetate	8.15	43	80276	7.429 ug/l #	82
48) Methyl methacrylate	9.17	41	3369	0.615 ug/l #	37
51) 4-Methyl-2-Pentanone	9.98	43	5442	0.851 ug/l	89
54) cis-1,3-Dichloropropene	9.90	75	32677	4.275 ug/l #	65
56) Ethyl methacrylate	10.54	69	2065	0.275 ug/l #	1
57) 1,3-Dichloropropane	10.76	76	2541	0.295 ug/l #	43
59) 2-Hexanone	10.76	43	36224	7.558 ug/l #	54
74) N-amyl acetate	12.04	43	3193	0.363 ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	180321	30.631 ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	180321	107.792 ug/l #	6
95) Naphthalene	15.14	128	632	Below Cal #	69

(#) = 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: VN058100.D

Acq: 15 Sep 2019 18:19

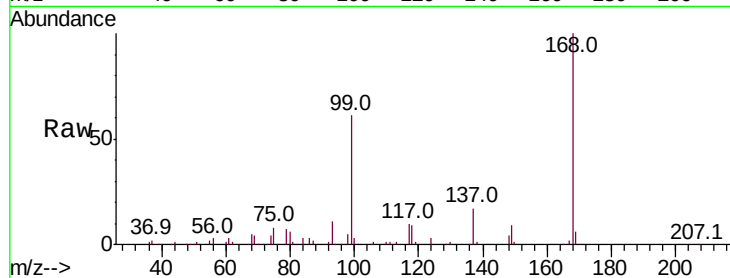
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 311570

Ion Ratio Lower Upper

168 100

99 61.5 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

150000

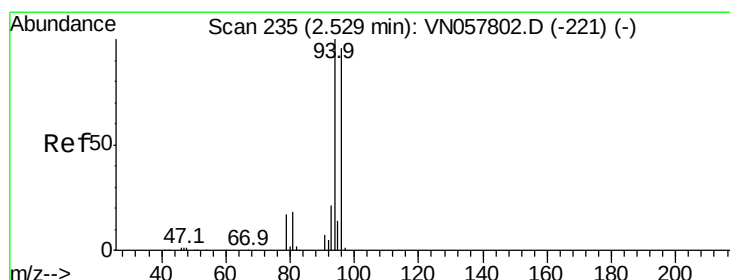
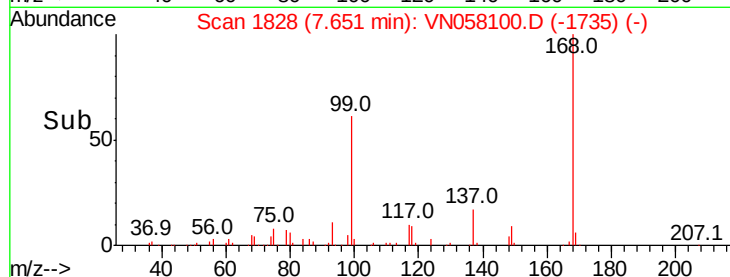
7.65

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 245

Delta R.T. 0.03 min

Lab File: VN058100.D

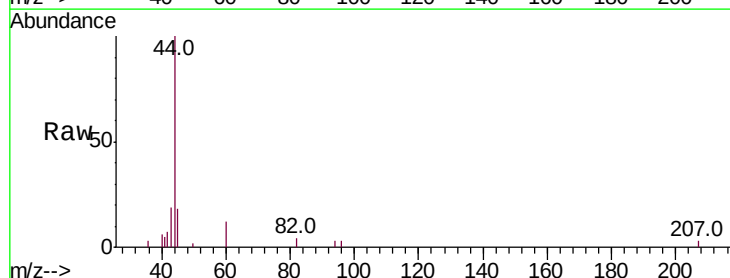
Acq: 15 Sep 2019 18:19

Tgt Ion: 94 Resp: 222

Ion Ratio Lower Upper

94 100

96 108.4 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VN

250

200

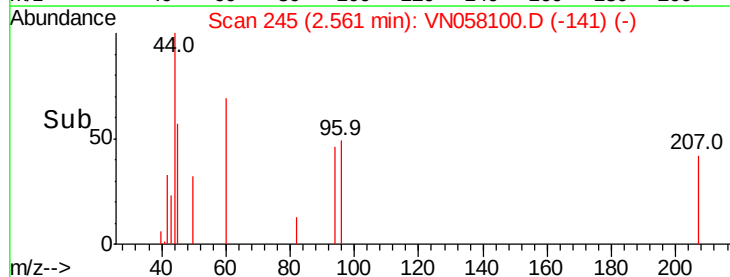
150

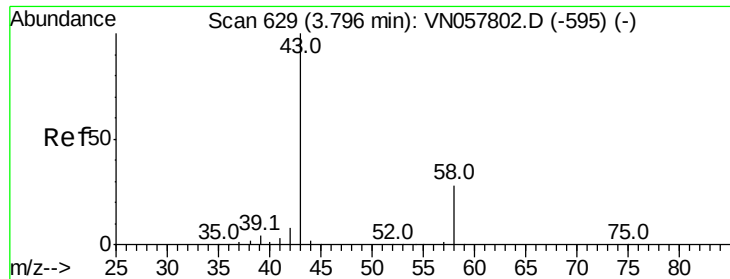
100

50

0

Time-->





#16

Acetone

Concen: 13.240 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058100.D

Acq: 15 Sep 2019 18:19

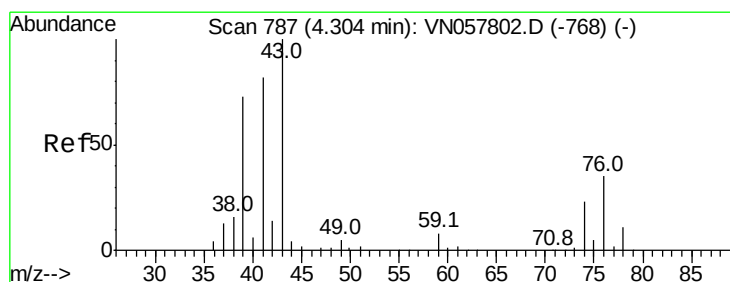
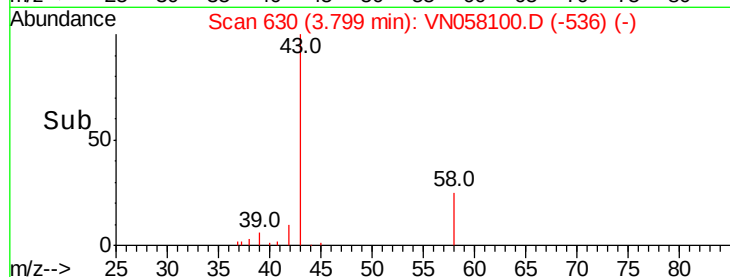
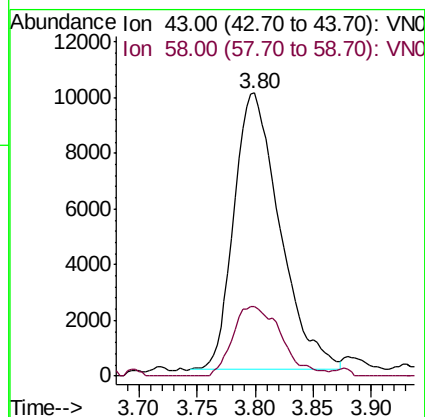
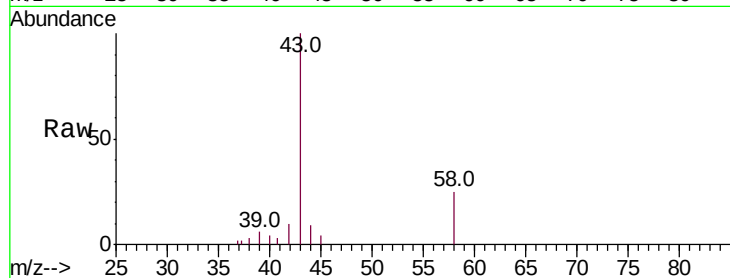
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 27391

Ion Ratio Lower Upper

43 100

58 25.1 22.2 33.2



#18

Methyl Acetate

Concen: 1.225 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.01 min

Lab File: VN058100.D

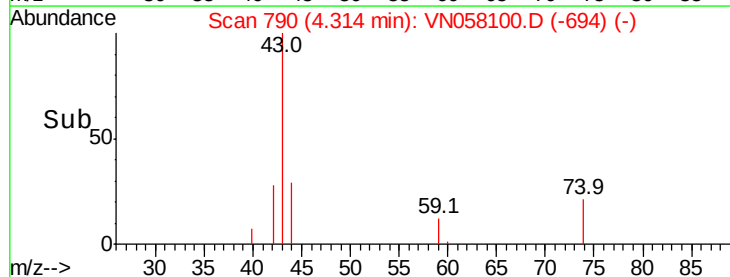
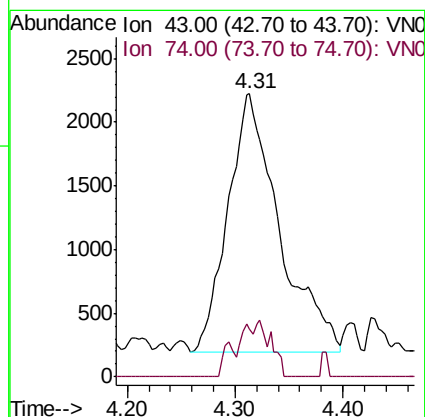
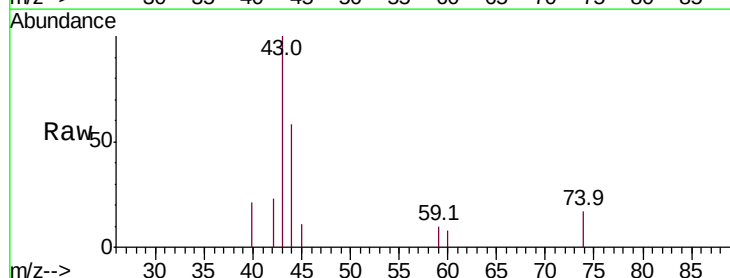
Acq: 15 Sep 2019 18:19

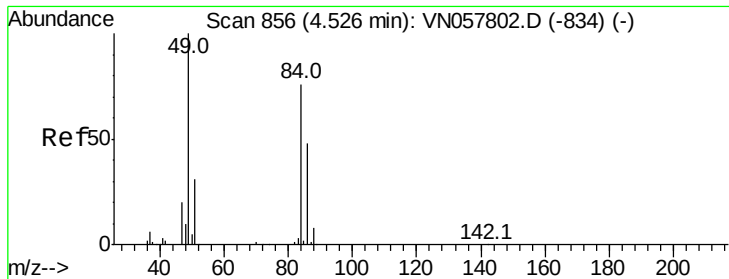
Tgt Ion: 43 Resp: 6756

Ion Ratio Lower Upper

43 100

74 2.7 17.9 26.9#

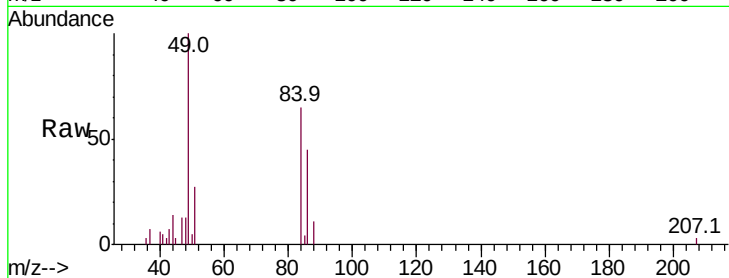




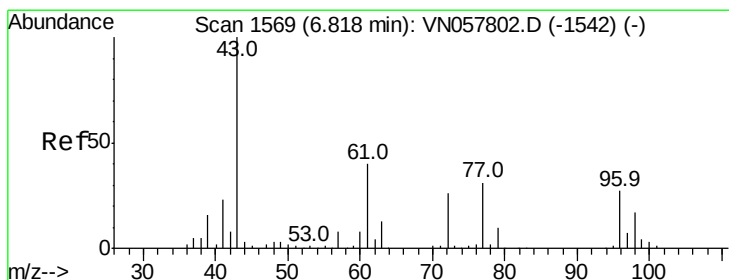
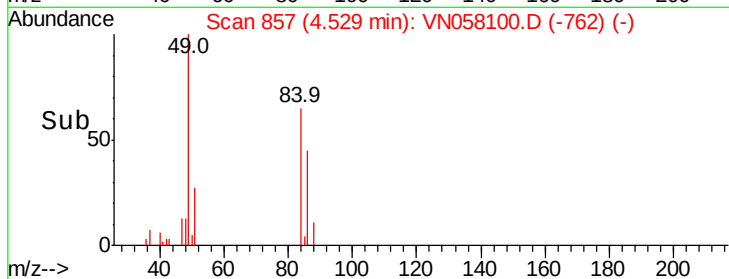
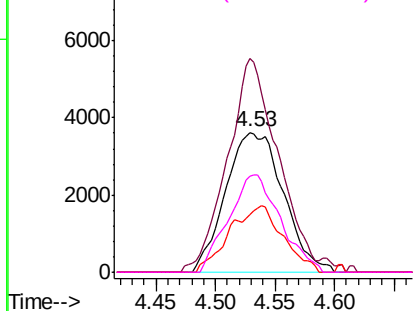
#20
Methvlene Chloride
Concen: 1.910 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058100.D
Acq: 15 Sep 2019 18:19

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	84	Resp:	12184
Ion	Ratio	Lower	Upper
84	100		
49	148.0	104.8	157.2
51	41.6	33.0	49.4
86	68.9	50.5	75.7

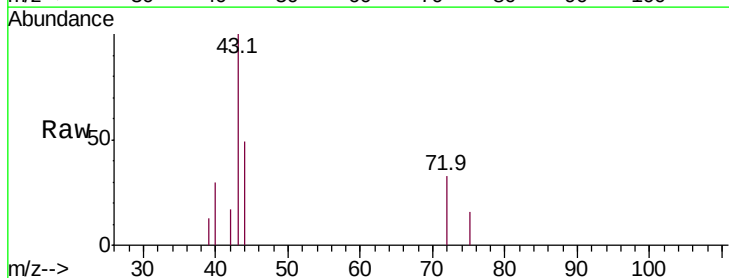


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

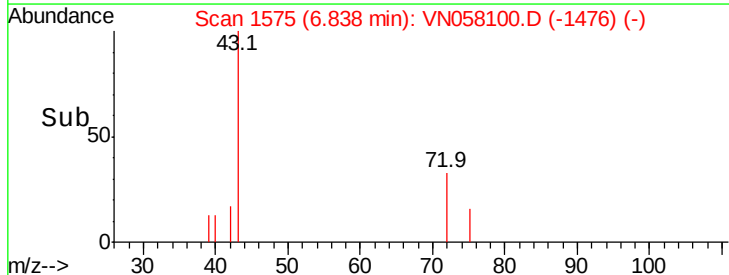
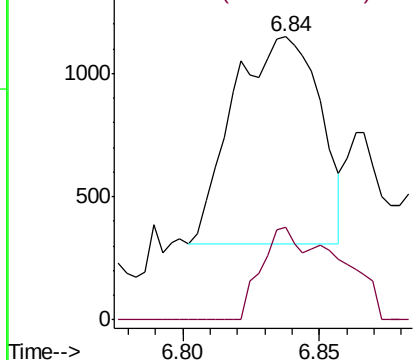


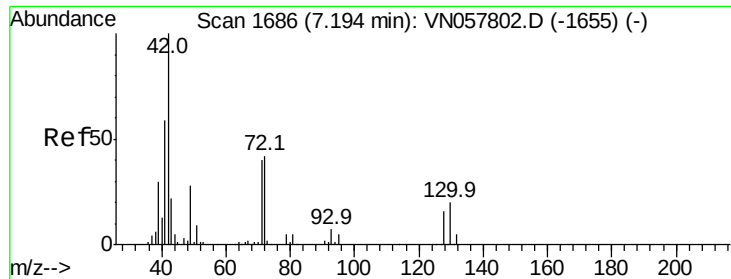
#25
2-Butanone
Concen: 0.622 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.02 min
Lab File: VN058100.D
Acq: 15 Sep 2019 18:19

Tgt Ion:	43	Resp:	1862
Ion	Ratio	Lower	Upper
43	100		
72	44.5	20.6	30.8#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 72.00 (71.70 to 72.70): VNO

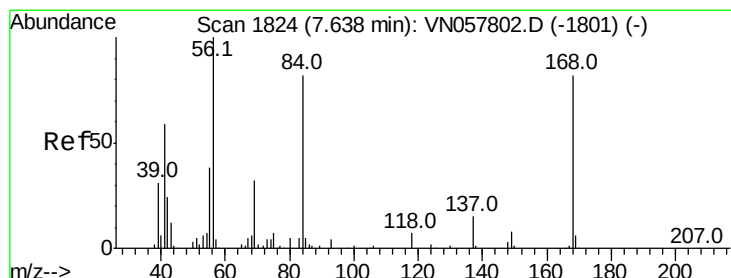
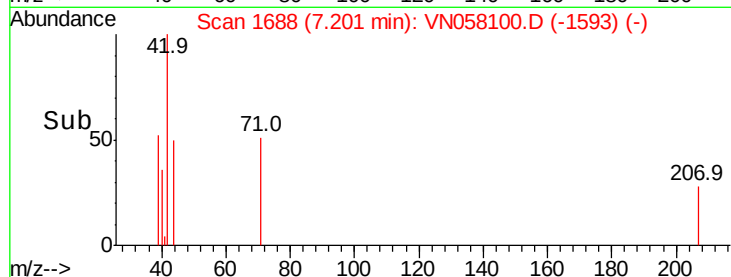
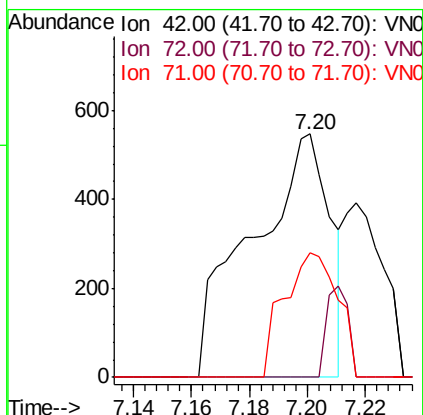
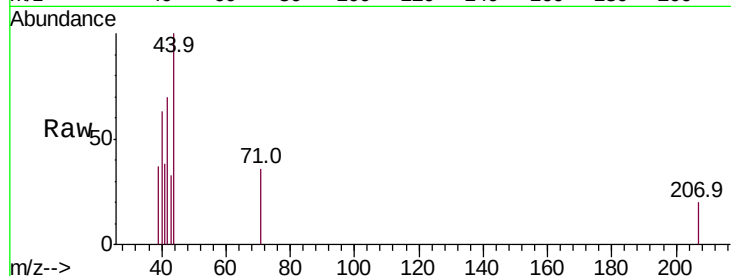




#29
Tetrahydrofuran
Concen: 0.557 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.01 min
Lab File: VN058100.D
Acq: 15 Sep 2019 18:19

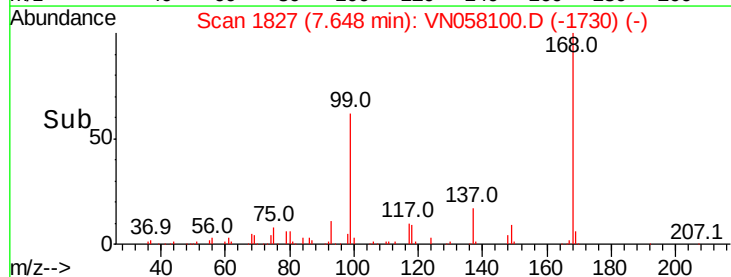
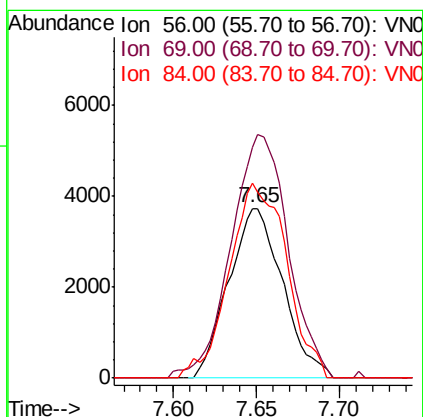
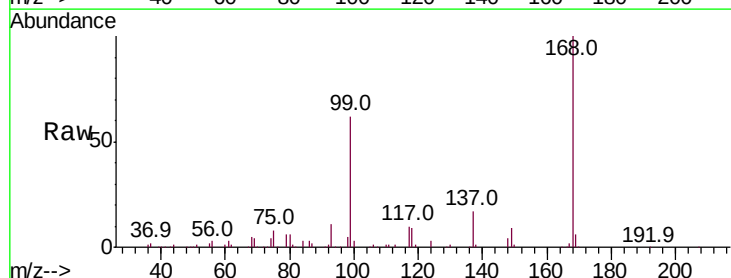
Instrument :
MSVOA_N
ClientSampled :

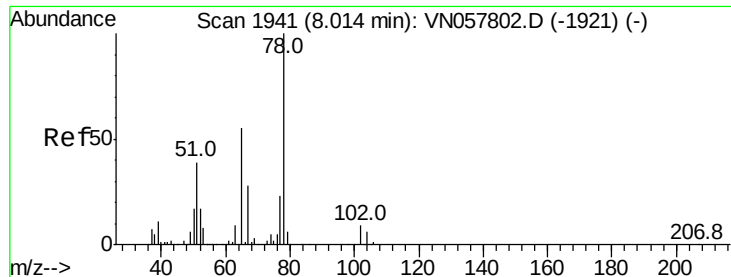
Tot Ion: 42 Resp: 1027
Ion Ratio Lower Upper
42 100
72 10.4 33.7 50.5#
71 35.3 31.9 47.9



#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058100.D
Acq: 15 Sep 2019 18:19

Tgt Ion: 56 Resp: 8466
Ion Ratio Lower Upper
56 100
69 135.9 25.9 38.9#
84 115.0 65.6 98.4#

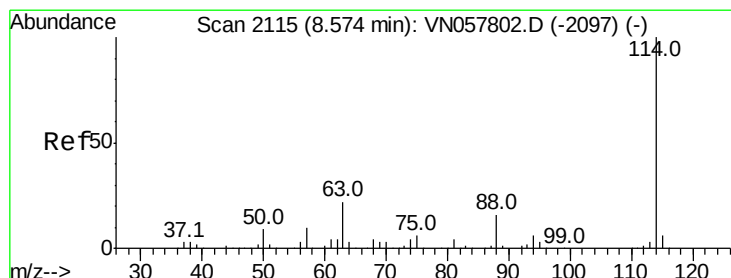
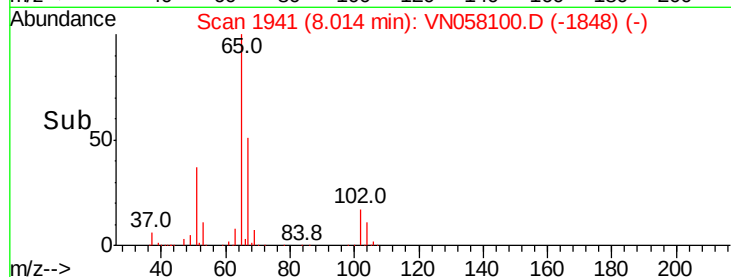
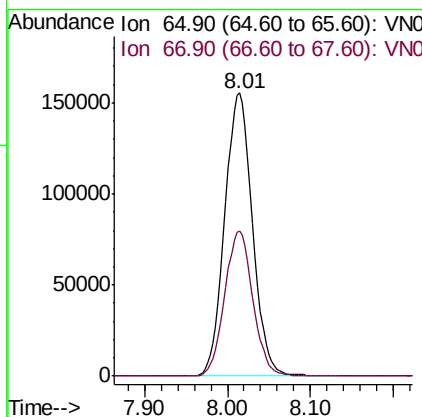
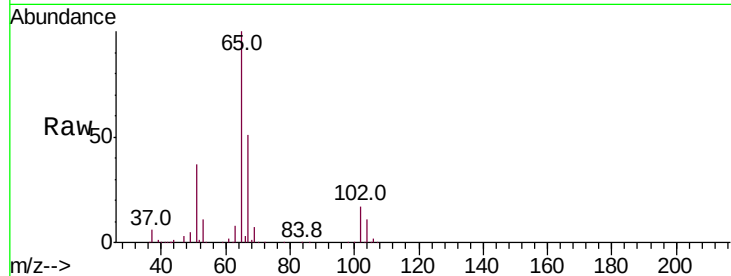




#33
 1,2-Dichloroethane-d4
 Concen: 57.394 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058100.D
 Acq: 15 Sep 2019 18:19

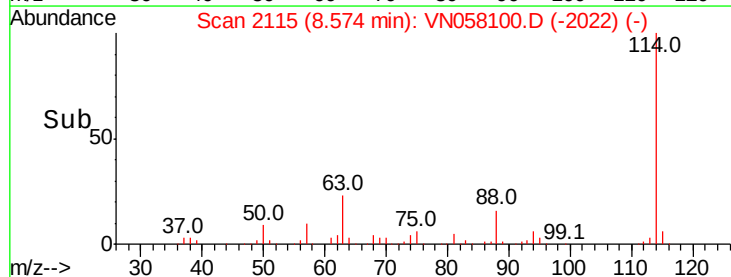
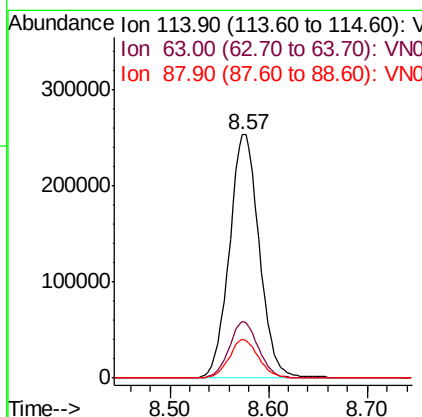
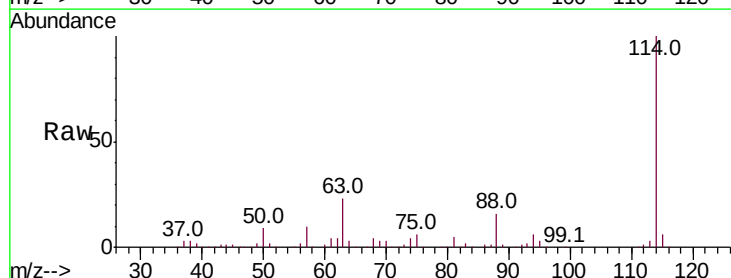
Instrument :
 MSVOA_N
 ClientSampleId :

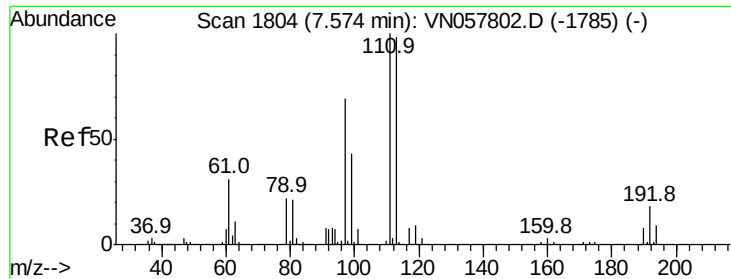
Tot Ion: 65 Resp: 362190
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058100.D
 Acq: 15 Sep 2019 18:19

Tgt Ion: 114 Resp: 536246
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 44.0
 88 15.9 0.0 31.4





#35

Dibromofluoromethane

Concen: 50.622 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VN058100.D

Acq: 15 Sep 2019 18:19

Instrument :
MSVOA_N
ClientSampleId :

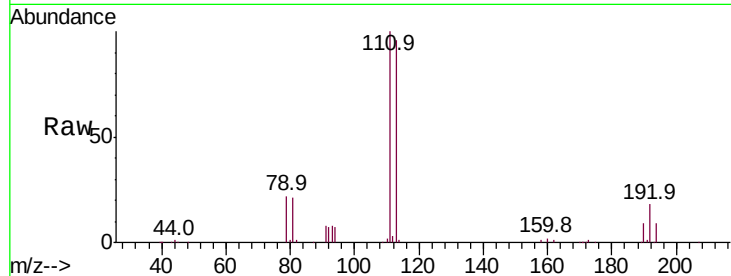
Tot Ion:113 Resp: 250544

Ion Ratio Lower Upper

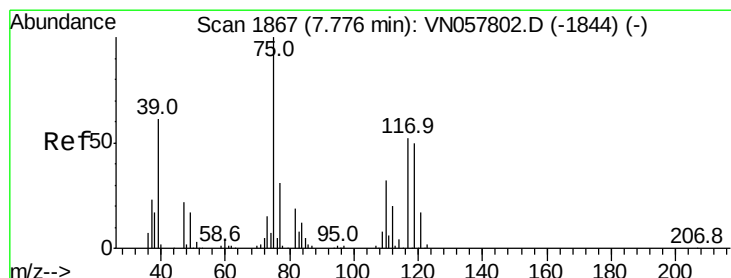
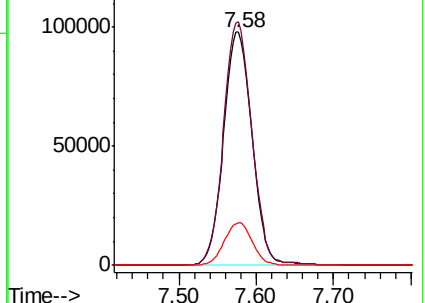
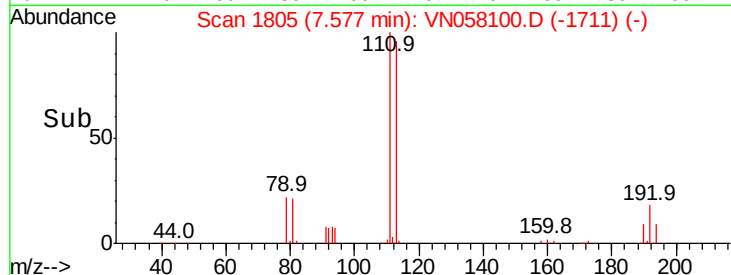
113 100

111 103.1 81.3 121.9

192 17.9 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: 4.190 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN058100.D

Acq: 15 Sep 2019 18:19

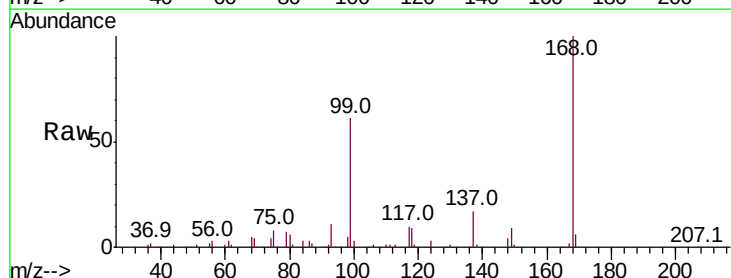
Tgt Ion: 75 Resp: 26059

Ion Ratio Lower Upper

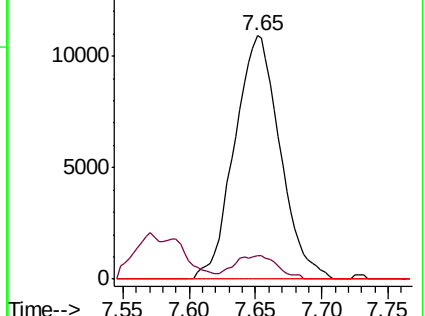
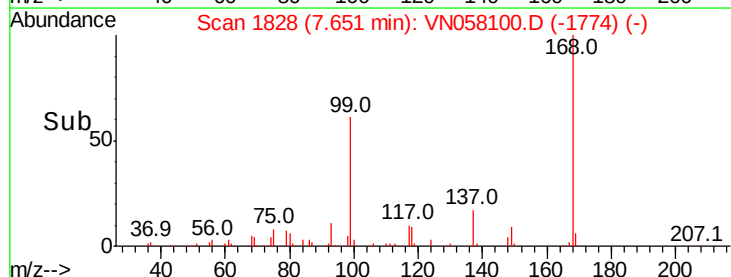
75 100

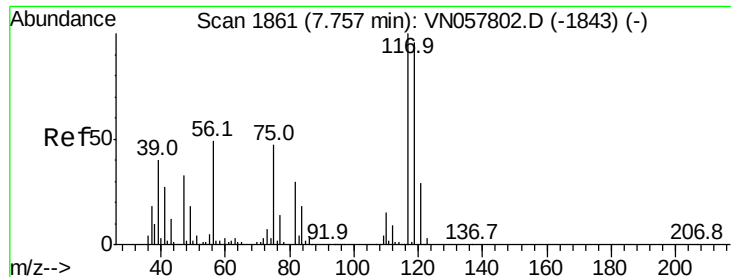
110 9.4 16.3 48.9#

77 0.0 25.0 37.4#



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





#38

Carbon Tetrachloride

Concen: 5.659 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058100.D

Acq: 15 Sep 2019 18:19

Instrument :

MSVOA_N

ClientSampleId :

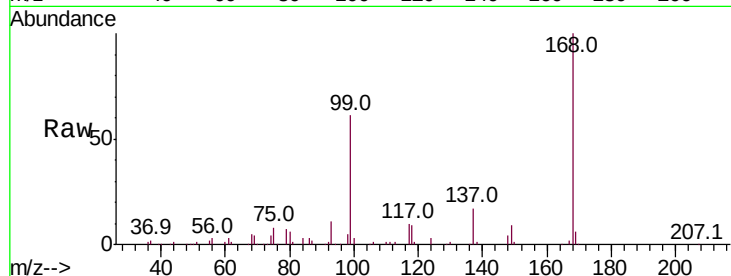
Tot Ion:117 Resp: 32131

Ion Ratio Lower Upper

117 100

119 5.5 76.9 115.3#

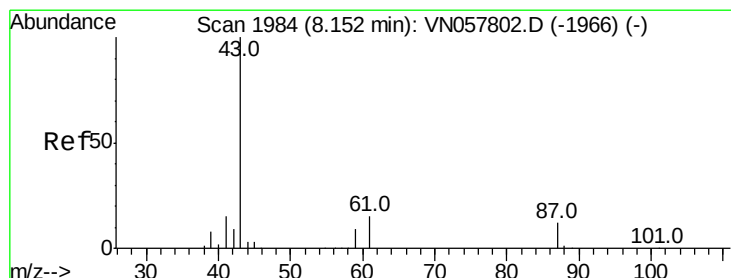
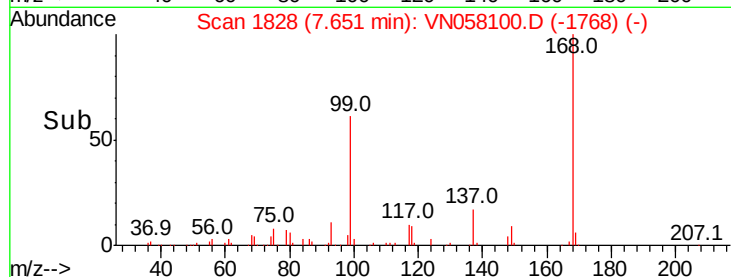
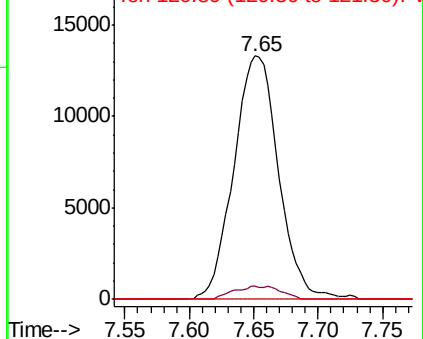
121 0.0 23.4 35.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 7.429 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058100.D

Acq: 15 Sep 2019 18:19

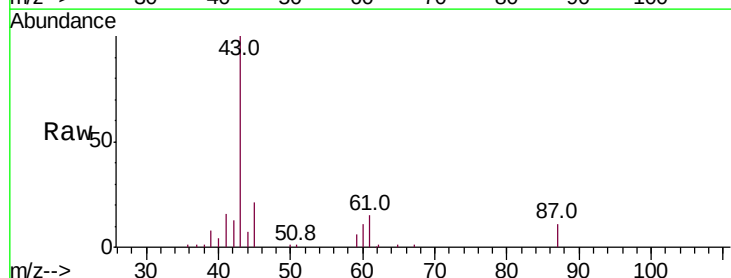
Tgt Ion: 43 Resp: 80276

Ion Ratio Lower Upper

43 100

61 13.8 20.1 30.1#

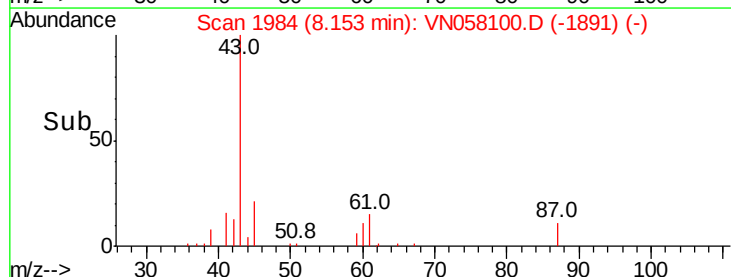
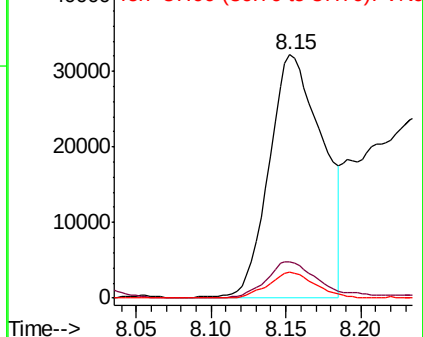
87 9.1 9.5 14.3#

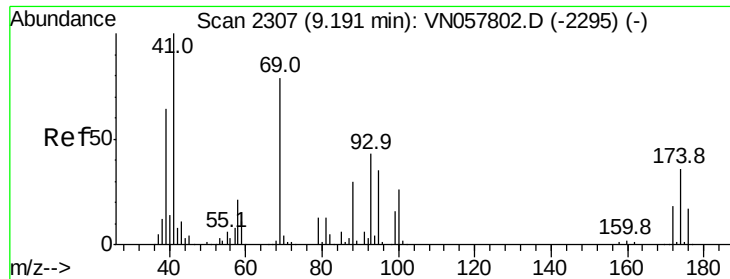


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

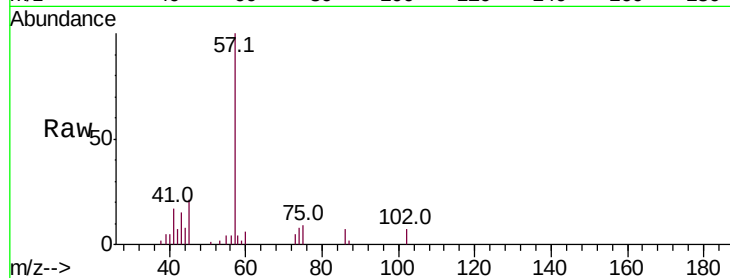




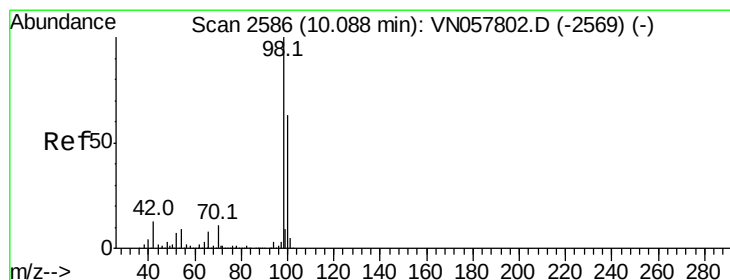
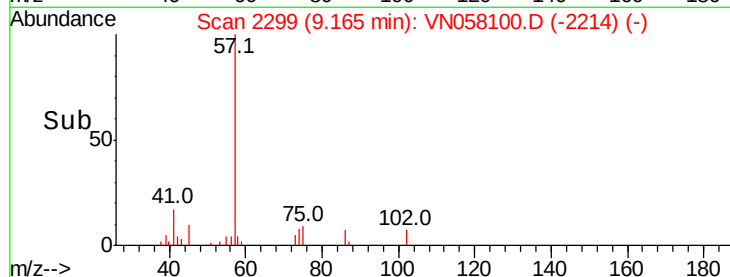
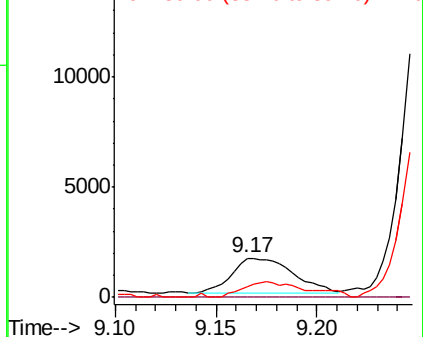
#48
Methvl methacrylate
Concen: 0.615 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.03 min
Lab File: VN058100.D
Acq: 15 Sep 2019 18:19

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 3369
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 41.6 52.7 79.1#

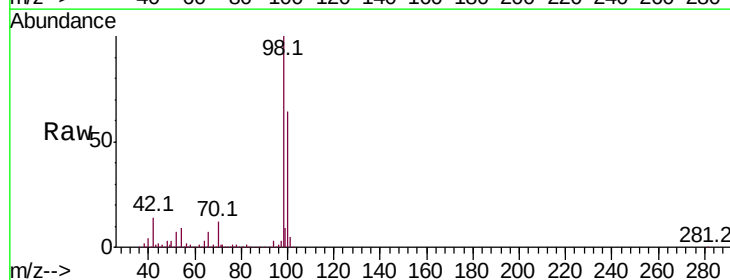


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

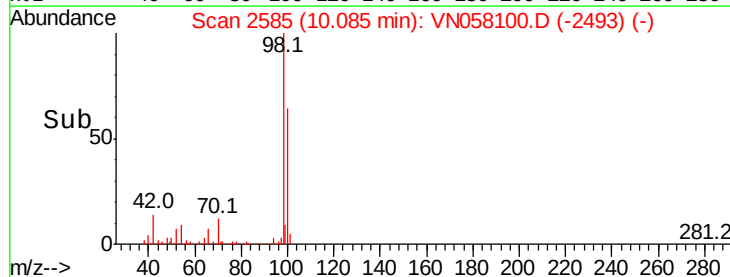
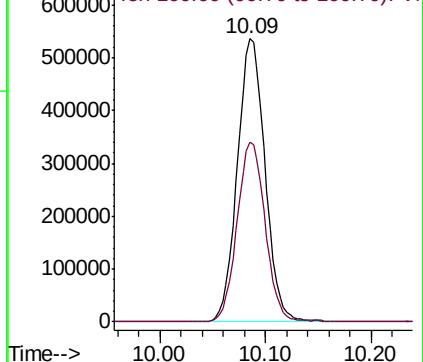


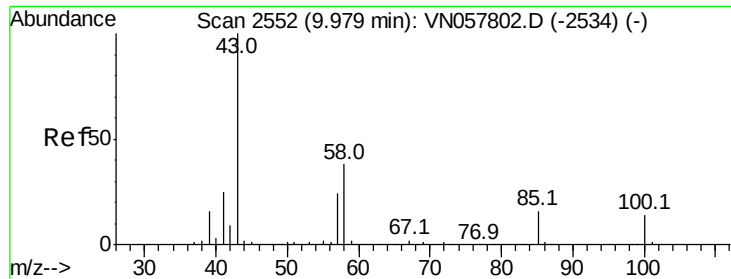
#50
Toluene-d8
Concen: 50.888 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058100.D
Acq: 15 Sep 2019 18:19

Tgt Ion: 98 Resp: 977854
Ion Ratio Lower Upper
98 100
100 64.5 50.3 75.5



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





#51

4-Methyl-2-Pentanone

Concen: 0.851 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058100.D

Acq: 15 Sep 2019 18:19

Instrument :

MSVOA_N

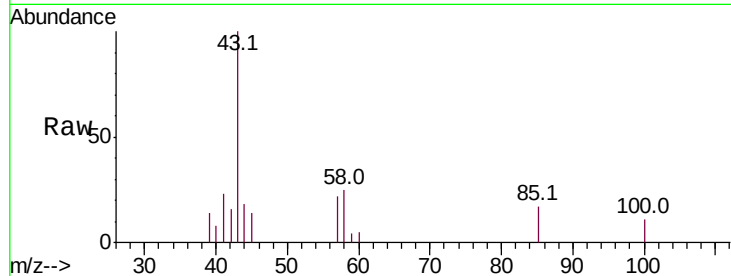
ClientSampled :

Tot Ion: 43 Resp: 5442

Ion Ratio Lower Upper

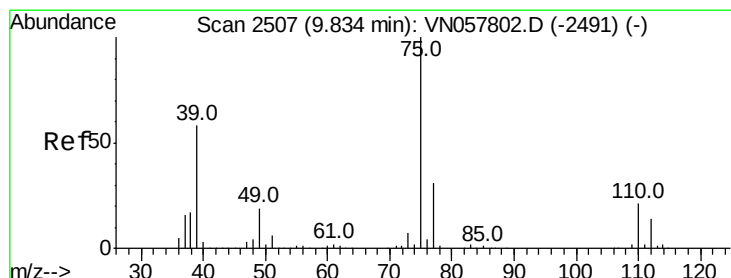
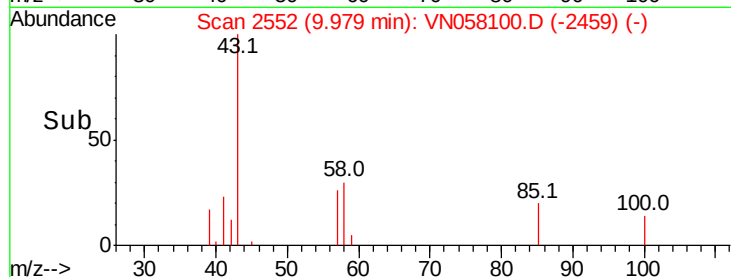
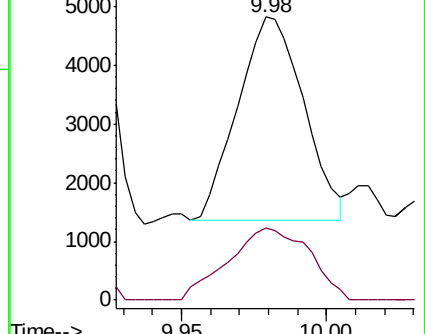
43 100

58 43.9 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 4.275 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.06 min

Lab File: VN058100.D

Acq: 15 Sep 2019 18:19

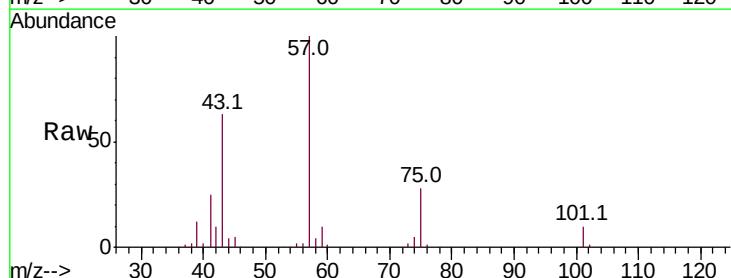
Tgt Ion: 75 Resp: 32677

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

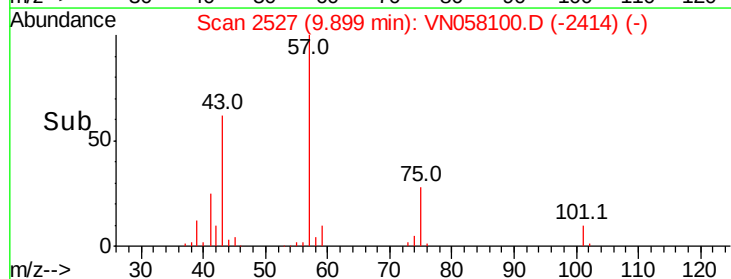
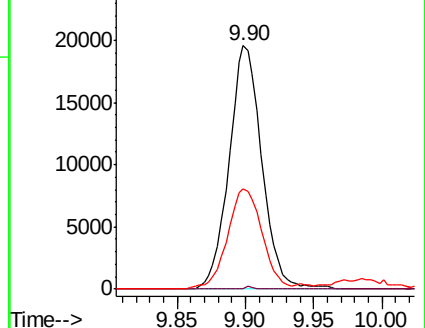
39 40.3 46.2 69.4#

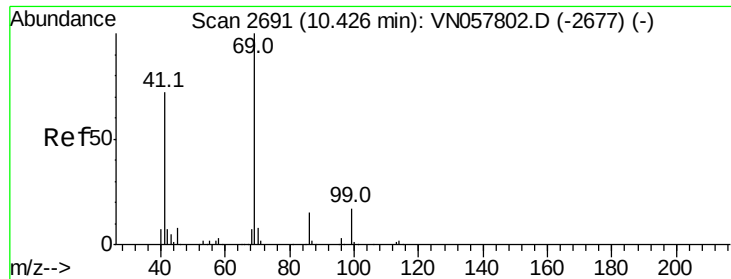


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.275 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.11 min

Lab File: VN058100.D

Acq: 15 Sep 2019 18:19

Instrument :

MSVOA_N

ClientSampleId :

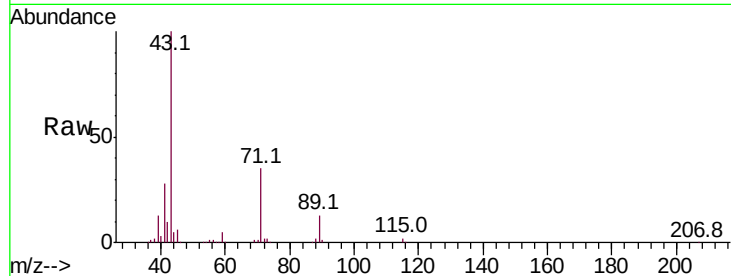
Tot Ion: 69 Resp: 2065

Ion Ratio Lower Upper

69 100

41 4632.1 56.7 85.1#

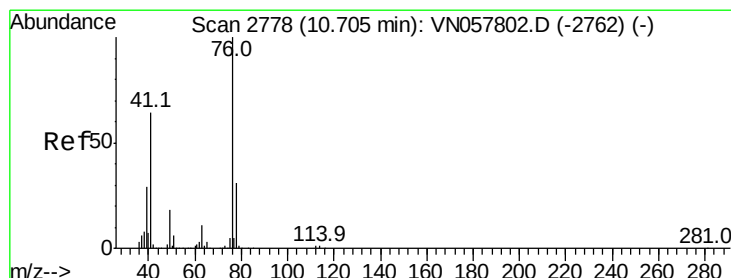
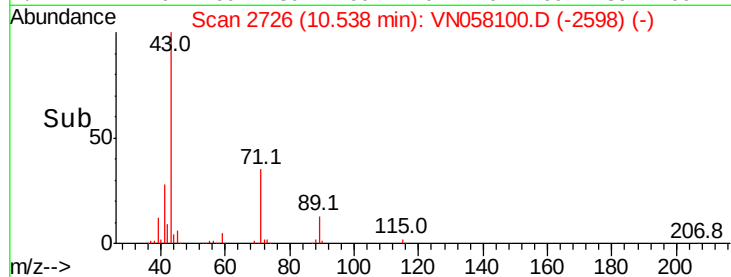
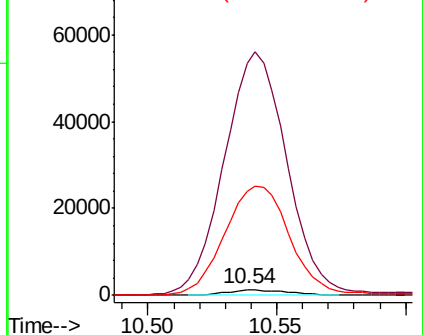
39 2152.2 36.3 54.5#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.295 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058100.D

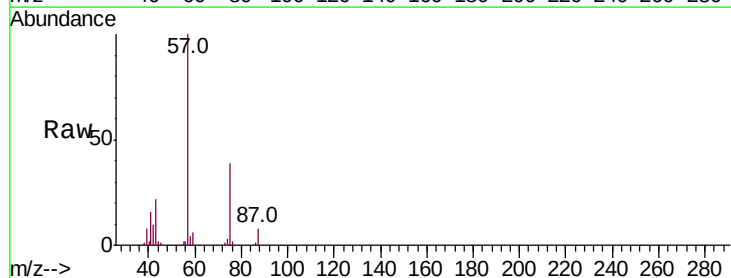
Acq: 15 Sep 2019 18:19

Tgt Ion: 76 Resp: 2541

Ion Ratio Lower Upper

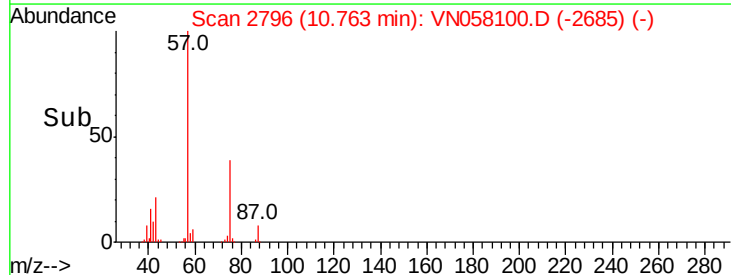
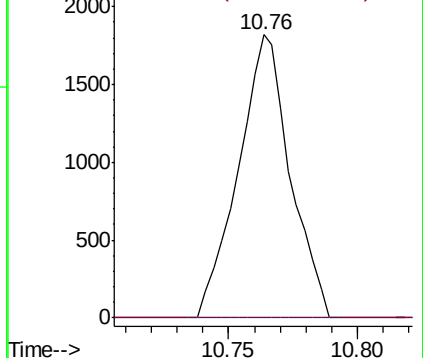
76 100

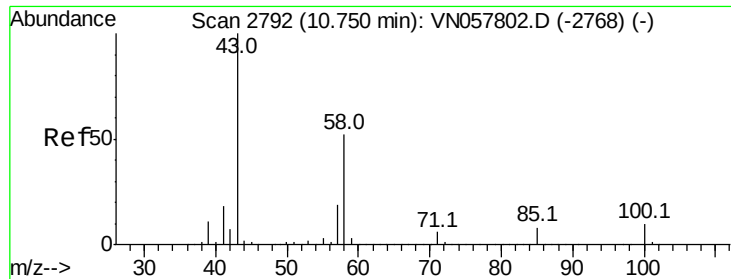
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 7.558 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058100.D

Acq: 15 Sep 2019 18:19

Instrument :

MSVOA_N

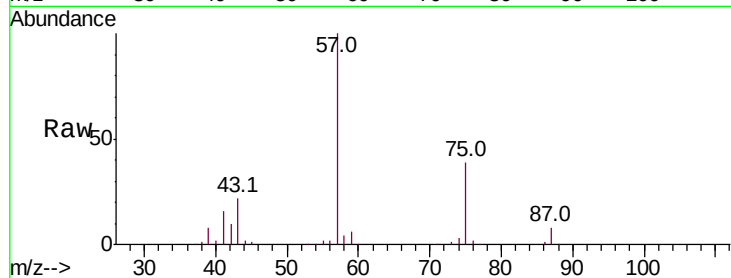
ClientSampleId :

Tot Ion: 43 Resp: 36224

Ion Ratio Lower Upper

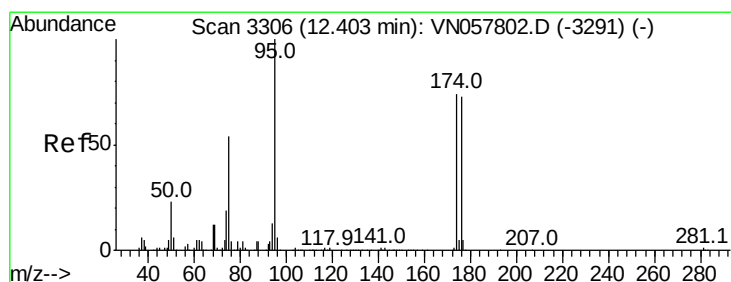
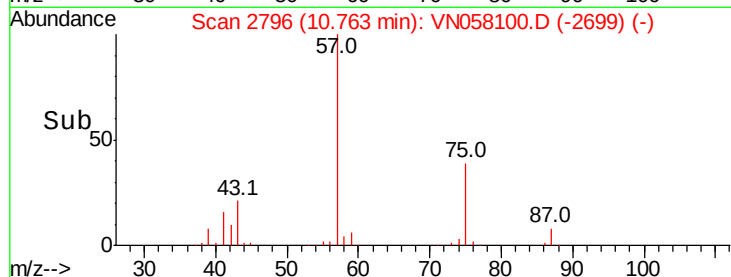
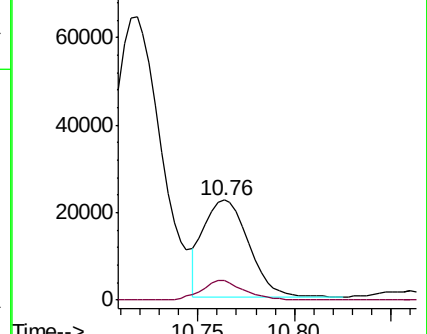
43 100

58 19.1 25.6 76.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 44.534 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058100.D

Acq: 15 Sep 2019 18:19

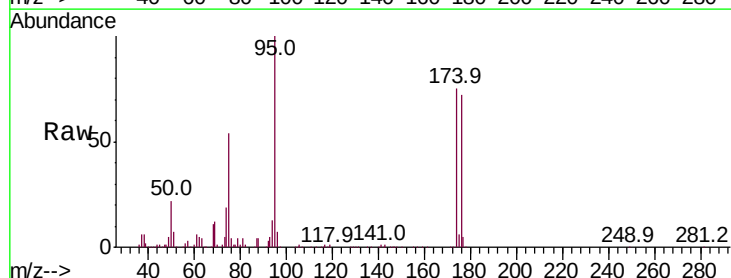
Tgt Ion: 95 Resp: 326125

Ion Ratio Lower Upper

95 100

174 76.5 0.0 150.2

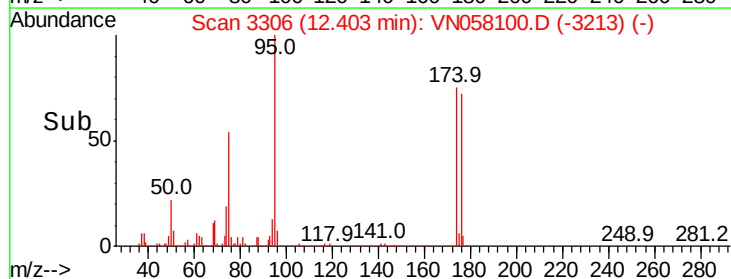
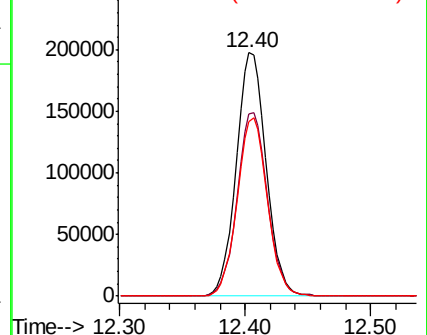
176 73.8 0.0 146.0

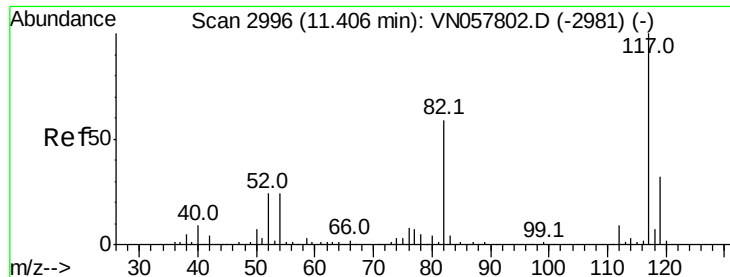


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

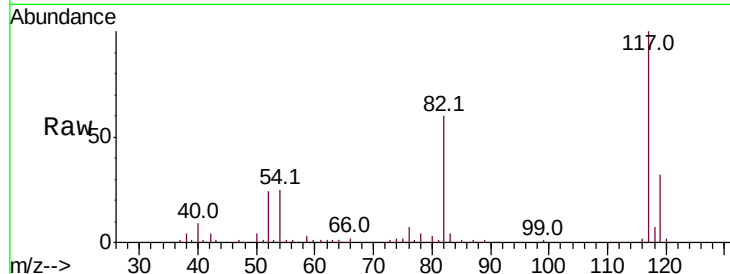




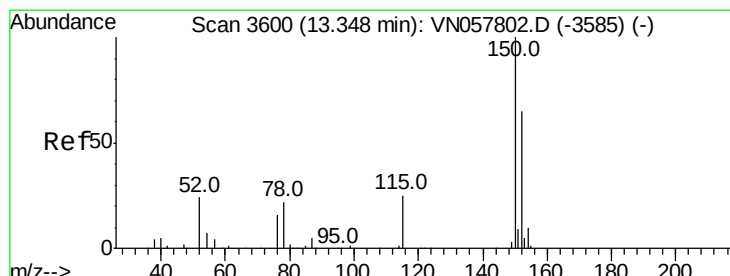
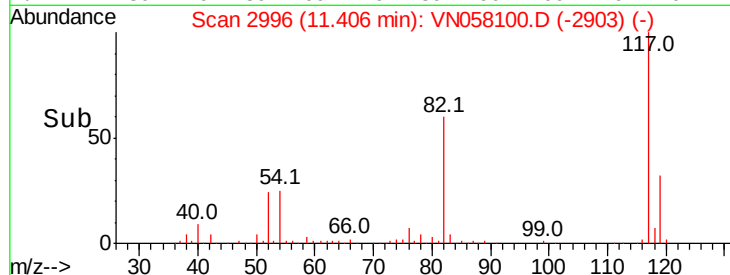
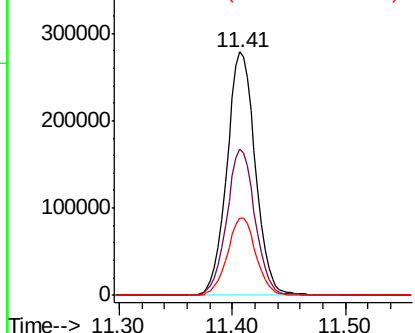
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058100.D
Acq: 15 Sep 2019 18:19

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 486716
Ion Ratio Lower Upper
117 100
82 60.0 47.2 70.8
119 31.8 25.3 37.9

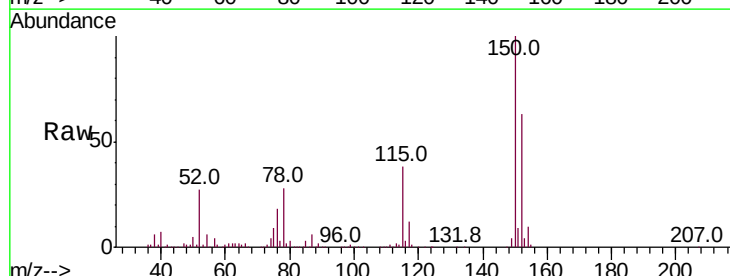


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

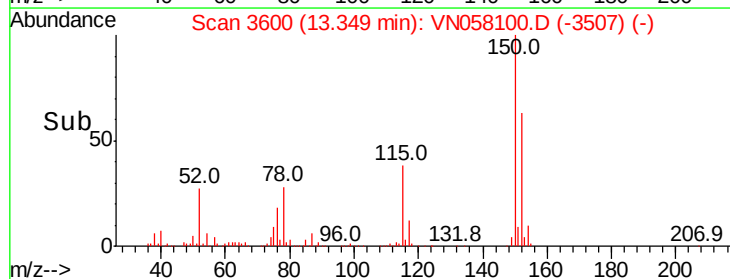
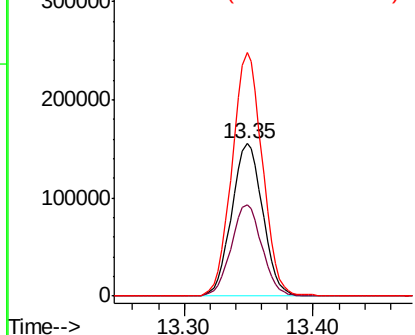


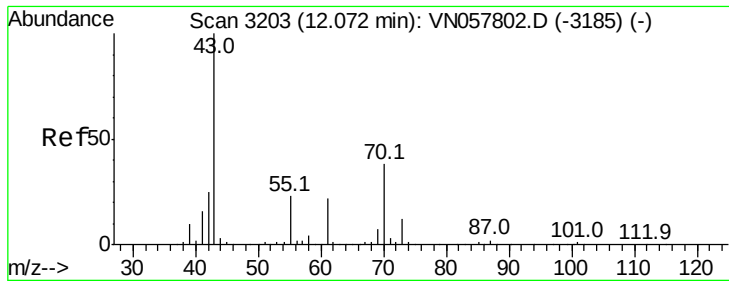
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058100.D
Acq: 15 Sep 2019 18:19

Tgt Ion:152 Resp: 260229
Ion Ratio Lower Upper
152 100
115 59.4 30.3 91.0
150 155.6 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-amvl acetate

Concen: 0.363 ug/l

RT: 12.04 min Scan# 3193

Delta R.T. -0.03 min

Lab File: VN058100.D

Acq: 15 Sep 2019 18:19

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 3193

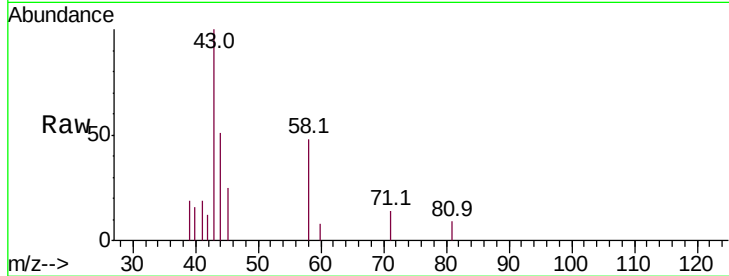
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 6.2 18.6 27.8#

61 0.0 17.4 26.2#

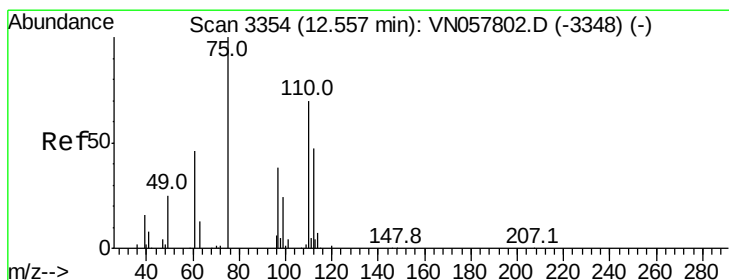
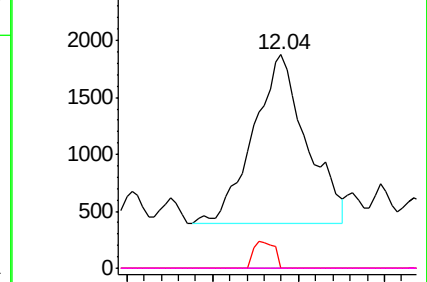
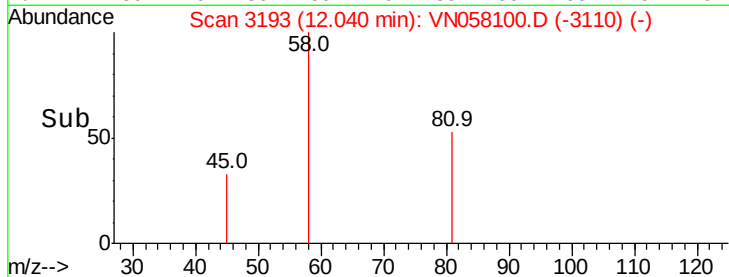


Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 30.631 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058100.D

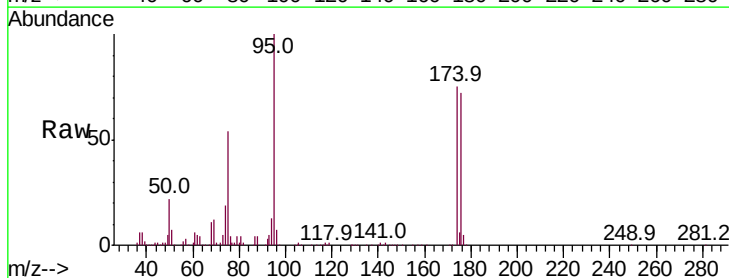
Acq: 15 Sep 2019 18:19

Tgt Ion: 75 Resp: 180321

Ion Ratio Lower Upper

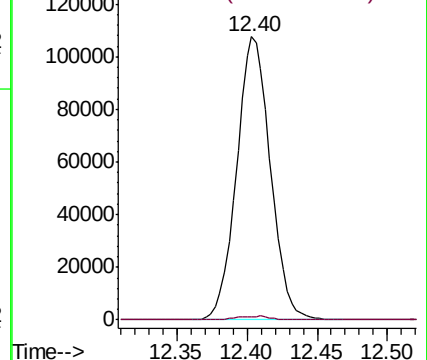
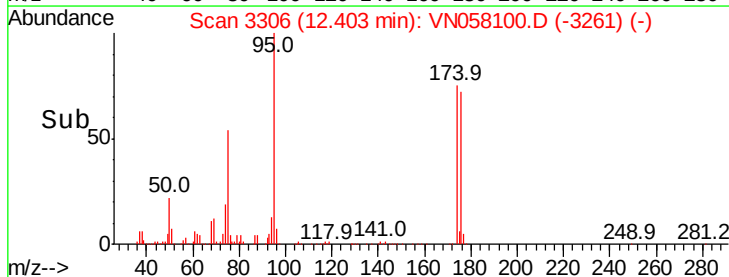
75 100

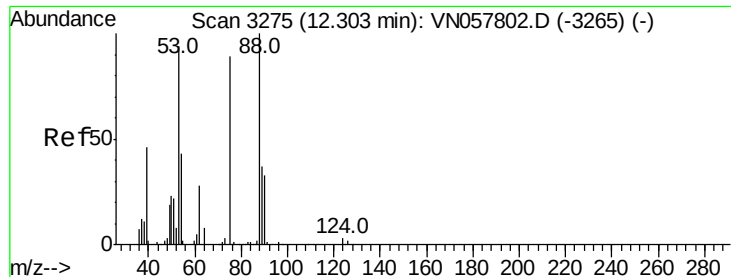
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 107.792 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058100.D

Acq: 15 Sep 2019 18:19

Instrument :

MSVOA_N

ClientSampled :

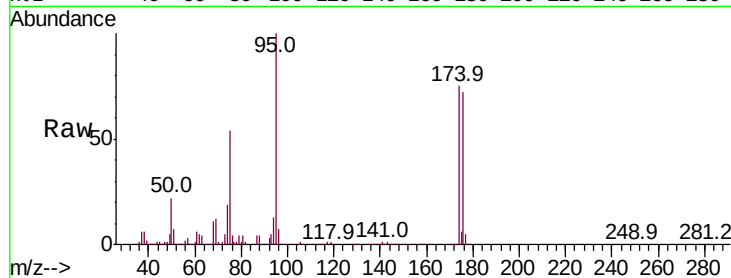
Tot Ion: 75 Resp: 180321

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

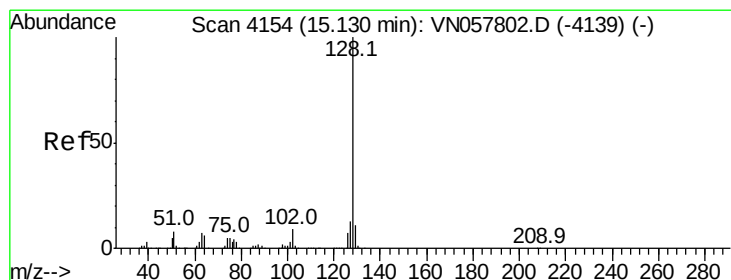
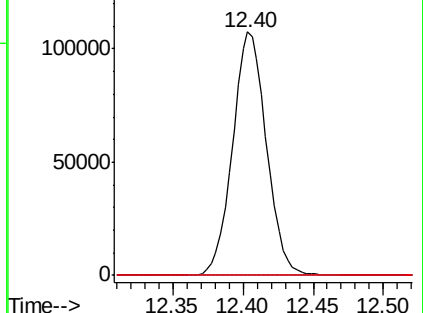
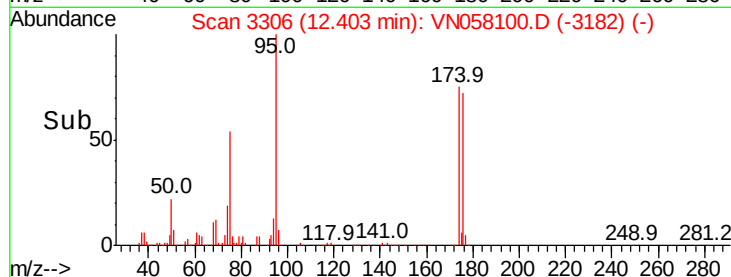
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN058100.D (-3182) (-)

Ion 53.00 (52.70 to 53.70): VN058100.D (-3182) (-)

Ion 88.90 (88.60 to 89.60): VN058100.D (-3182) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN058100.D

Acq: 15 Sep 2019 18:19

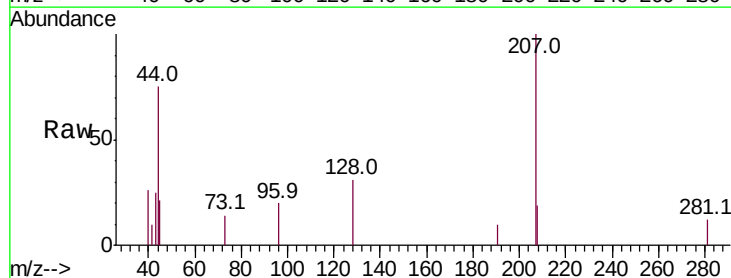
Tgt Ion: 128 Resp: 632

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VN058100.D (-4060) (-)

Ion 127.00 (126.70 to 127.70): VN058100.D (-4060) (-)

Ion 129.00 (128.70 to 129.70): VN058100.D (-4060) (-)

