

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091419\
 Data File : VN058069.D
 Acq On : 14 Sep 2019 11:50
 Operator : JC/SP
 Sample : K4863-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 72 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

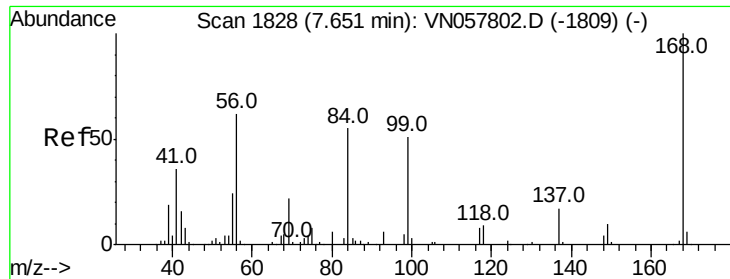
Quant Time: Sep 16 01:58:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	333440	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	579183	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	532074	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	276180	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	386312	57.20	ug/l	0.00
Spiked Amount			Recovery	=	114.40%	
35) Dibromofluoromethane	7.57	113	258229	48.31	ug/l	0.00
Spiked Amount			Recovery	=	96.62%	
50) Toluene-d8	10.09	98	1035443	49.89	ug/l	0.00
Spiked Amount			Recovery	=	99.78%	
62) 4-Bromofluorobenzene	12.41	95	341724	43.21	ug/l	0.00
Spiked Amount			Recovery	=	86.42%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.42	94	126	Below Cal	#	68
16) Acetone	3.80	43	14090	6.364	ug/l	90
18) Methyl Acetate	4.30	43	3080	0.522	ug/l #	51
20) Methylene Chloride	4.54	84	11576	1.554	ug/l	95
25) 2-Butanone	6.83	43	2023	0.631	ug/l #	49
29) Tetrahydrofuran	7.21	42	632	0.320	ug/l	95
31) Cyclohexane	7.65	56	9038	Below Cal	#	28
36) 1,1-Dichloropropene	7.65	75	29167	4.342	ug/l #	50
37) Ethyl Acetate	6.83	43	2023	0.292	ug/l #	70
38) Carbon Tetrachloride	7.65	117	33186	5.411	ug/l #	16
43) Isopropyl Acetate	8.15	43	132151	11.323	ug/l #	83
45) 1,2-Dichloropropane	9.26	63	1870	0.318	ug/l #	44
48) Methyl methacrylate	9.17	41	5539	0.936	ug/l #	13
49) 1,4-Dioxane	9.19	88	99	0.989	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	6167	0.893	ug/l	98
54) cis-1,3-Dichloropropene	9.90	75	34820	4.218	ug/l #	66
57) 1,3-Dichloropropane	10.76	76	3542	0.381	ug/l #	43
59) 2-Hexanone	10.76	43	56081	10.834	ug/l #	52
74) N-amyl acetate	12.06	43	2141	0.230	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	189214	30.286	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	189214	106.575	ug/l #	6
95) Naphthalene	15.14	128	8191	Below Cal	#	93

(#) = 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: VN058069.D

Acq: 14 Sep 2019 11:50

Instrument :

MSVOA_N

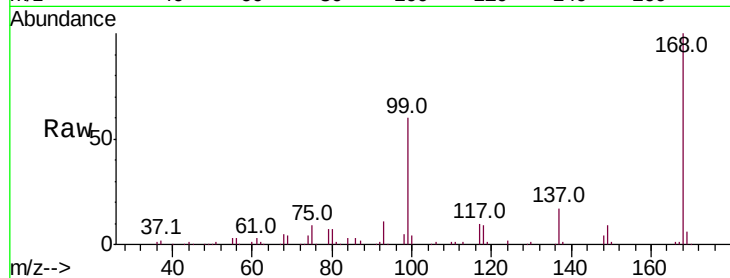
ClientSampleId :

Tot Ion:168 Resp: 333440

Ion Ratio Lower Upper

168 100

99 59.9 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN057802.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057802.D (-1809) (-)

7.65

150000

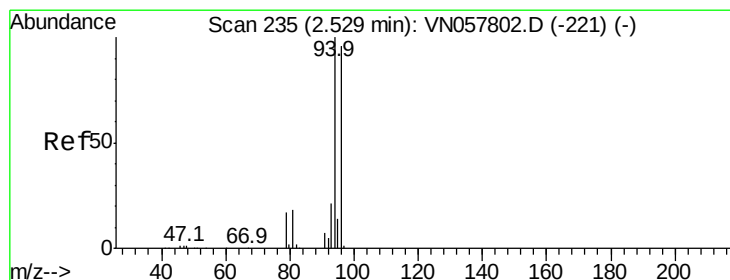
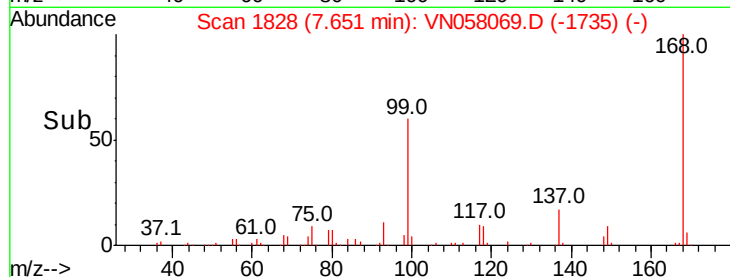
100000

50000

0

7.60 7.70

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.42 min Scan# 202

Delta R.T. -0.11 min

Lab File: VN058069.D

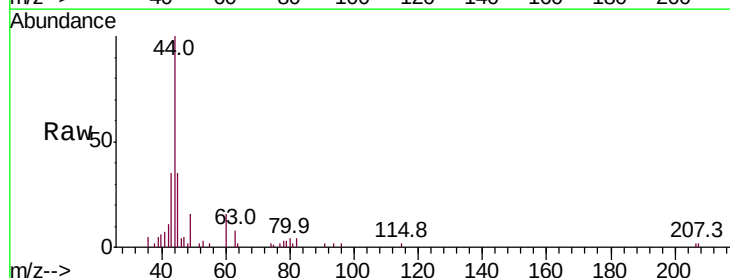
Acq: 14 Sep 2019 11:50

Tgt Ion: 94 Resp: 126

Ion Ratio Lower Upper

94 100

96 128.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN057802.D (-221) (-)

Ion 95.90 (95.60 to 96.60): VN057802.D (-221) (-)

250

200

150

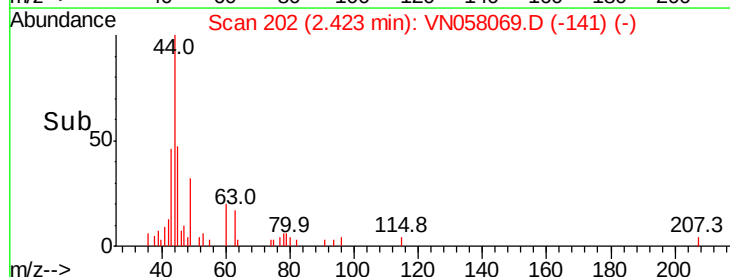
100

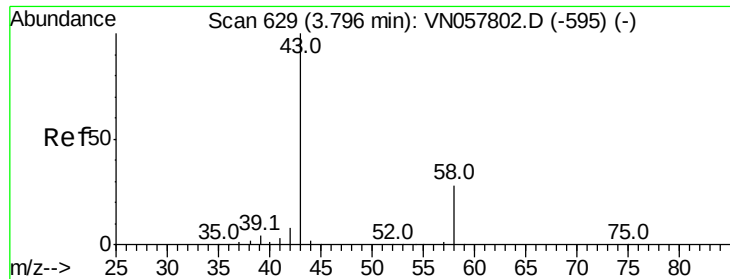
50

0

2.40 2.42 2.44

Time-->





#16

Acetone

Concen: 6.364 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058069.D

Acq: 14 Sep 2019 11:50

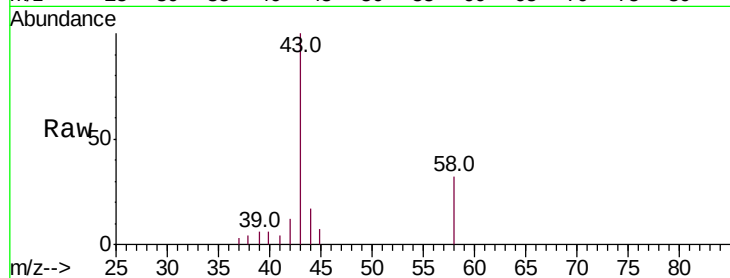
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 14090

Ion Ratio Lower Upper

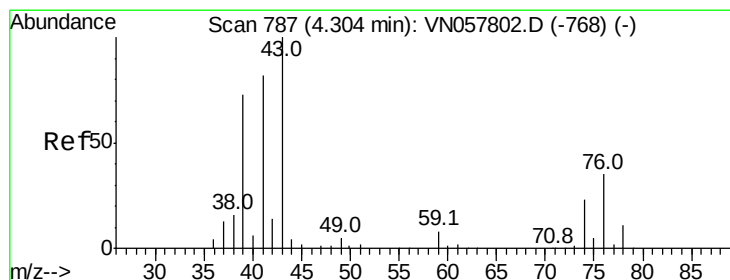
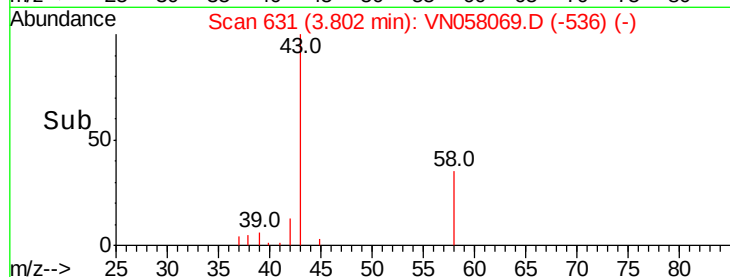
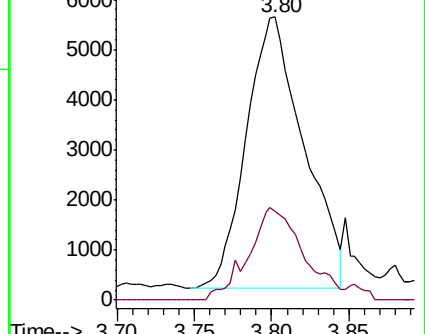
43 100

58 32.9 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN058069.D (-536) (-)

Ion 58.00 (57.70 to 58.70): VN058069.D (-536) (-)



#18

Methyl Acetate

Concen: 0.522 ug/l

RT: 4.30 min Scan# 786

Delta R.T. -0.00 min

Lab File: VN058069.D

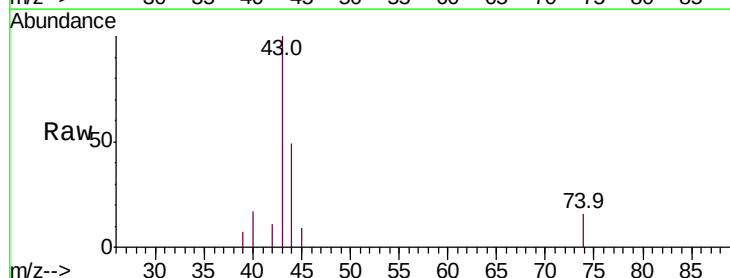
Acq: 14 Sep 2019 11:50

Tgt Ion: 43 Resp: 3080

Ion Ratio Lower Upper

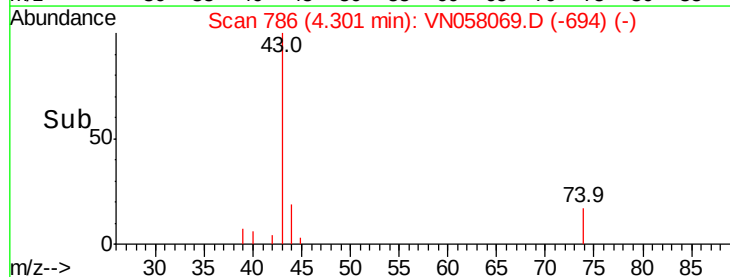
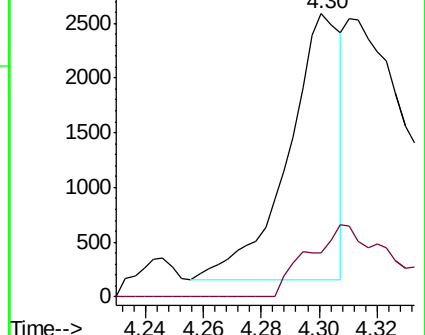
43 100

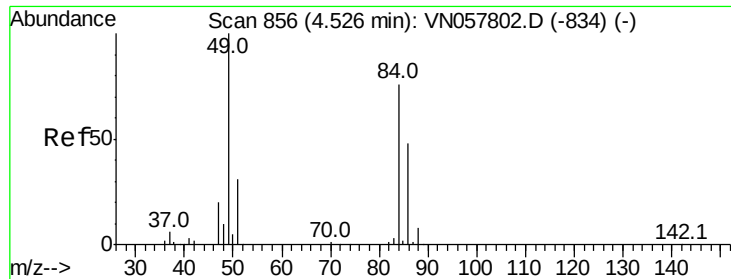
74 46.1 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN058069.D (-694) (-)

Ion 74.00 (73.70 to 74.70): VN058069.D (-694) (-)

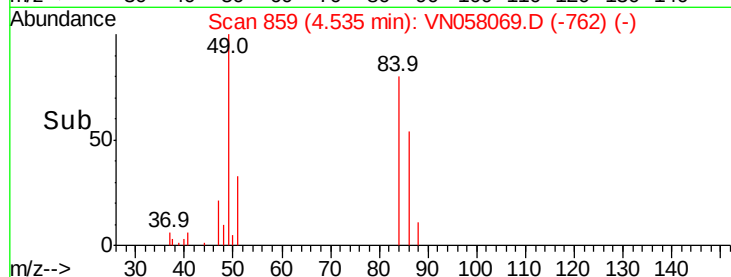
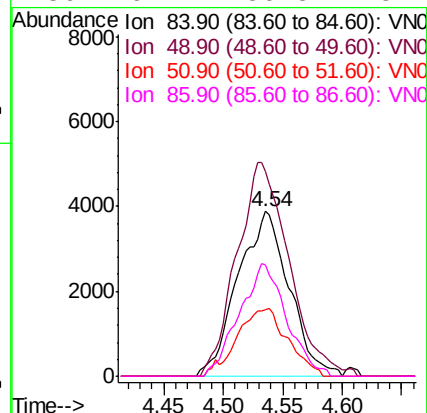
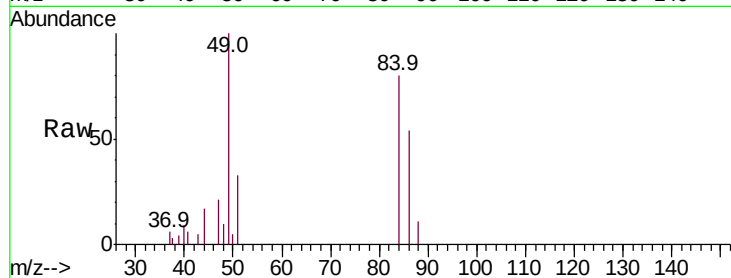




#20
Methylene Chloride
Concen: 1.554 ug/l
RT: 4.54 min Scan# 859
Delta R.T. 0.01 min
Lab File: VN058069.D
Acq: 14 Sep 2019 11:50

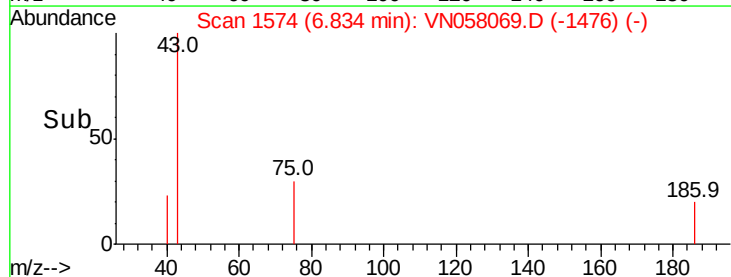
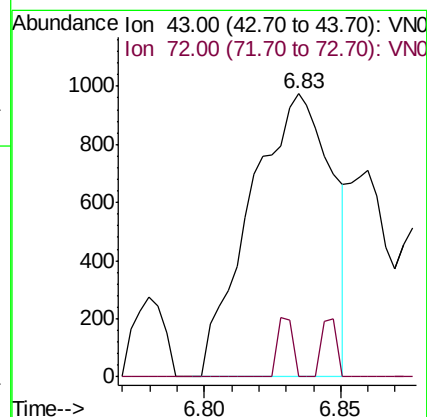
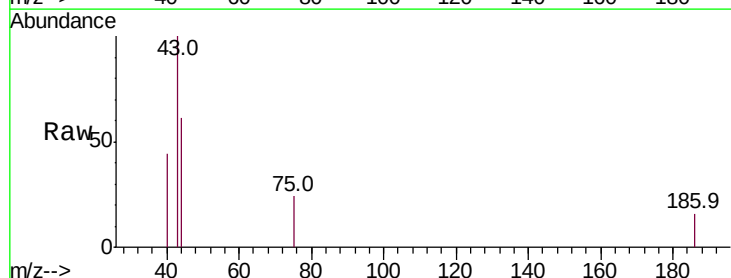
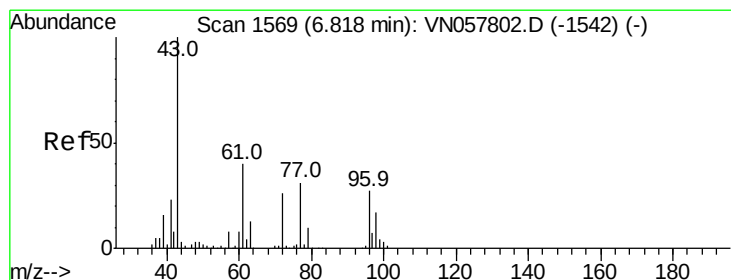
Instrument :
MSVOA_N
ClientSampleId :

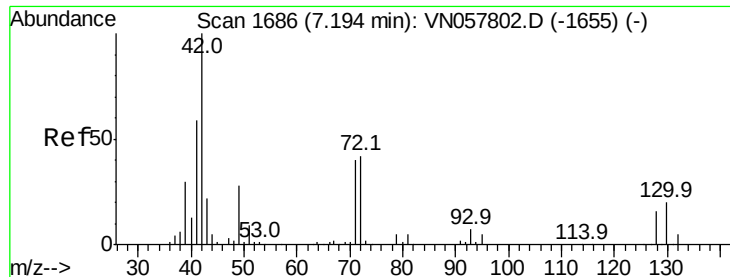
Tot Ion: 84 Resp: 11576
Ion Ratio Lower Upper
84 100
49 124.3 104.8 157.2
51 40.4 33.0 49.4
86 67.4 50.5 75.7



#25
2-Butanone
Concen: 0.631 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN058069.D
Acq: 14 Sep 2019 11:50

Tgt Ion: 43 Resp: 2023
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#





#29

Tetrahydrofuran

Concen: 0.320 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.02 min

Lab File: VN058069.D

Acq: 14 Sep 2019 11:50

Instrument :
MSVOA_N
ClientSampled :

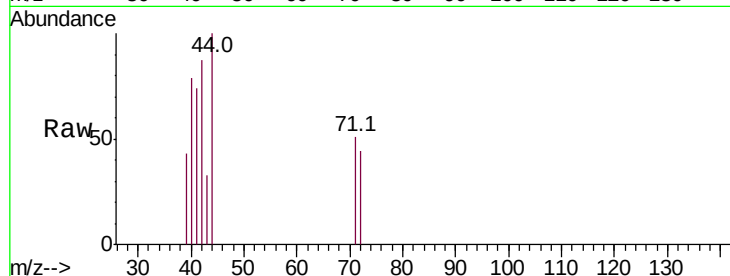
Tot Ion: 42 Resp: 632

Ion Ratio Lower Upper

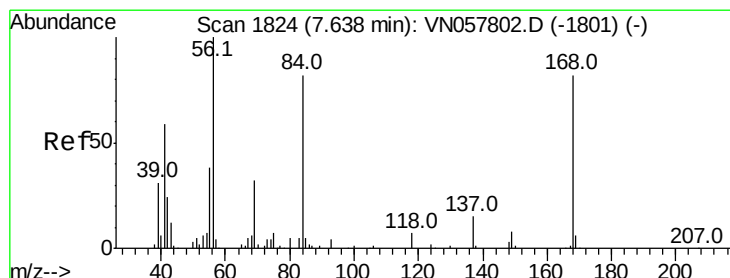
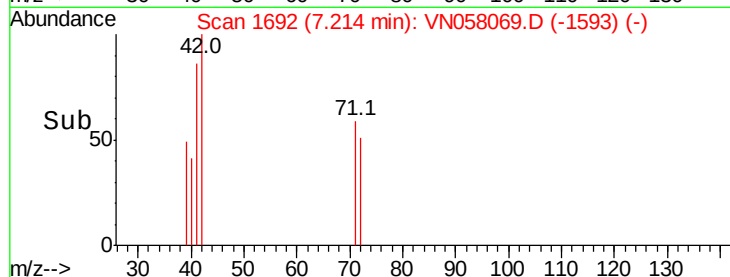
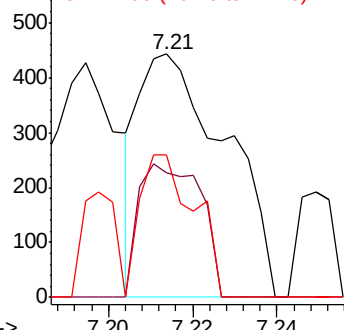
42 100

72 39.2 33.7 50.5

71 36.7 31.9 47.9



Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058069.D

Acq: 14 Sep 2019 11:50

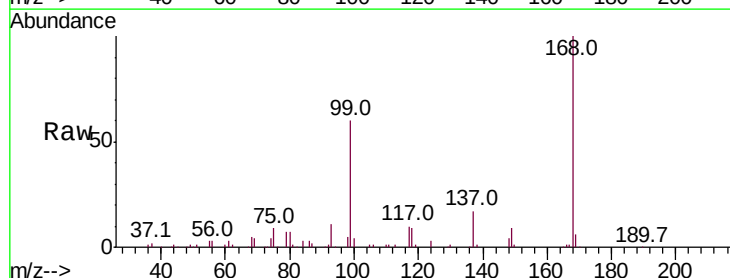
Tgt Ion: 56 Resp: 9038

Ion Ratio Lower Upper

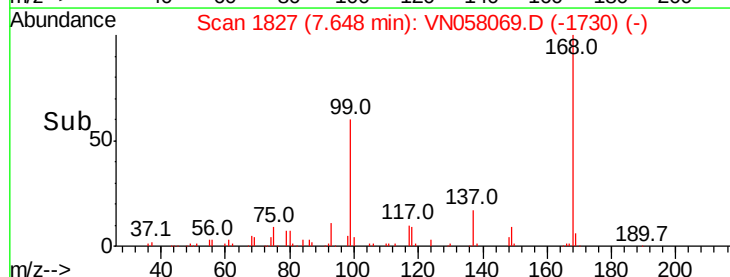
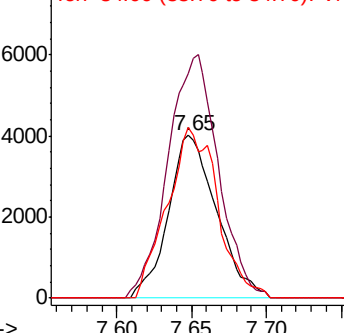
56 100

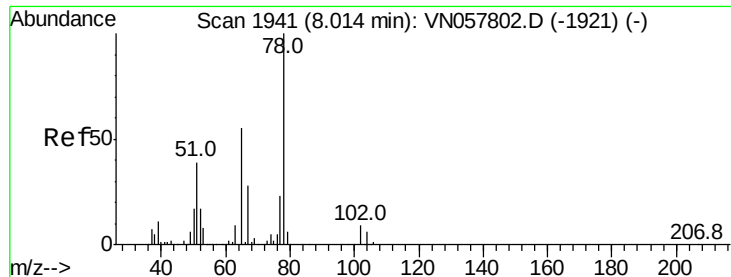
69 137.9 25.9 38.9#

84 105.3 65.6 98.4#



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

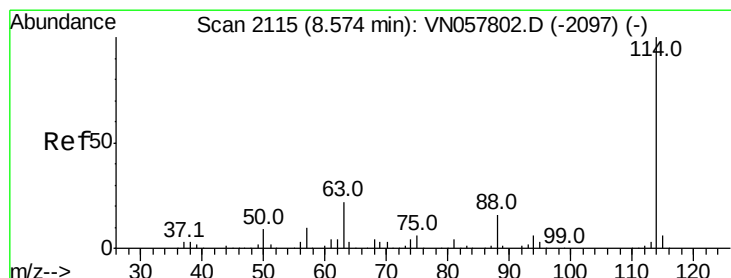
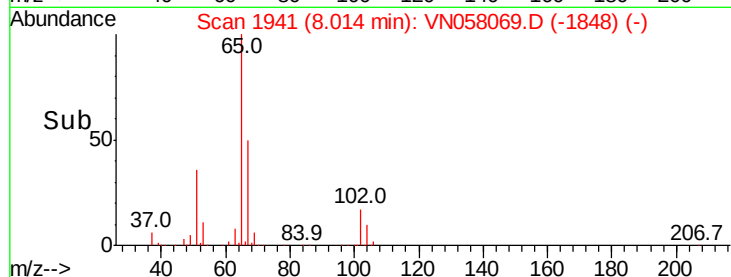
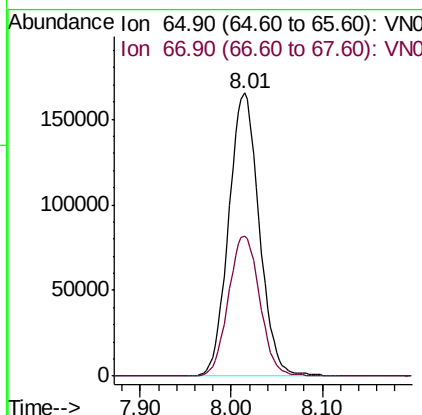
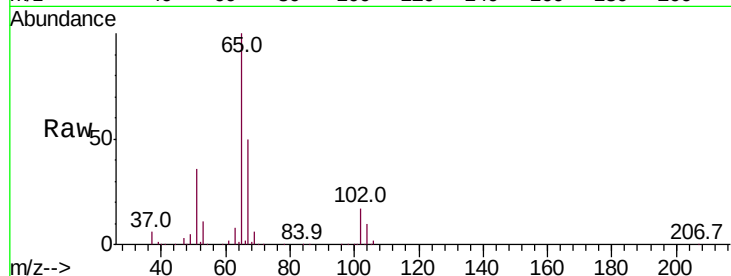




#33
 1,2-Dichloroethane-d4
 Concen: 57.201 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058069.D
 Acq: 14 Sep 2019 11:50

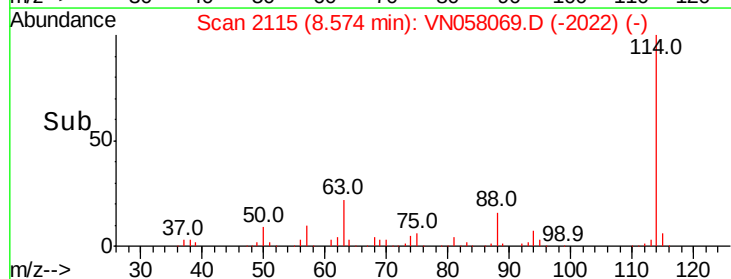
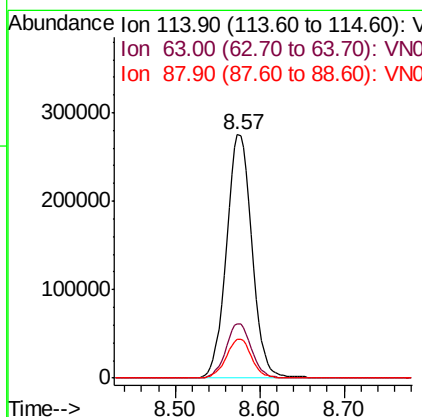
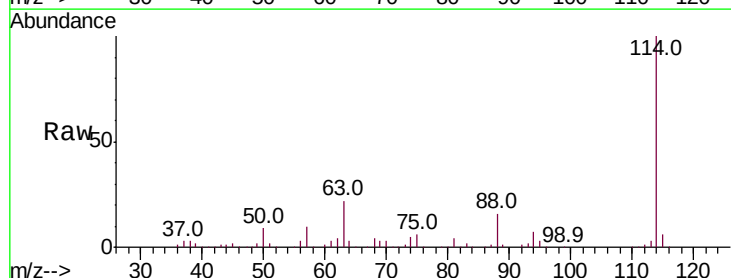
Instrument :
 MSVOA_N
 ClientSampled :

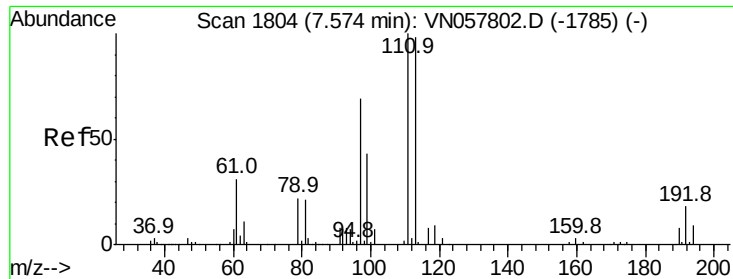
Tot Ion: 65 Resp: 386312
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058069.D
 Acq: 14 Sep 2019 11:50

Tgt Ion: 114 Resp: 579183
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 44.0
 88 16.1 0.0 31.4





#35

Dibromofluoromethane

Concen: 48.307 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN058069.D

Acq: 14 Sep 2019 11:50

Instrument :
MSVOA_N
ClientSampled :

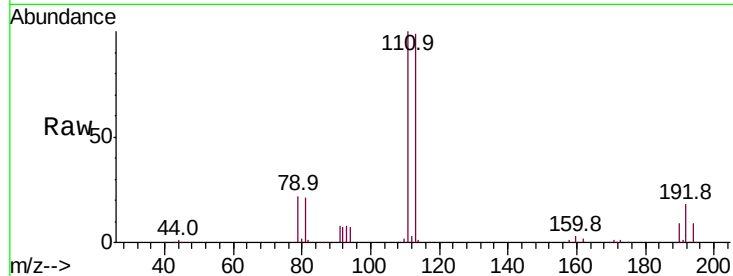
Tot Ion:113 Resp: 258229

Ion Ratio Lower Upper

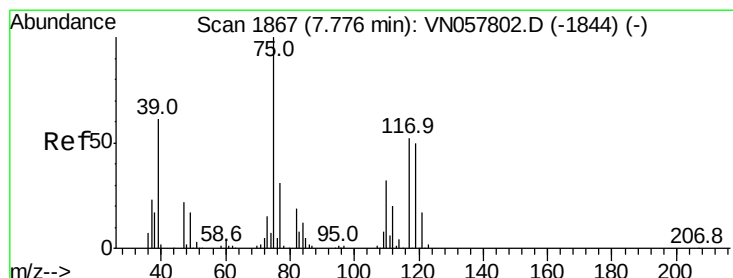
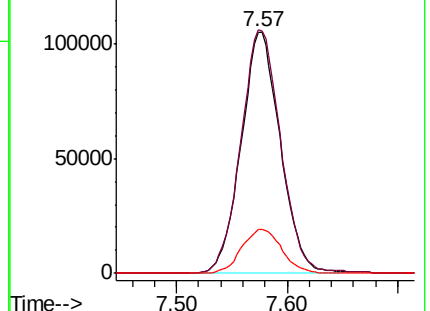
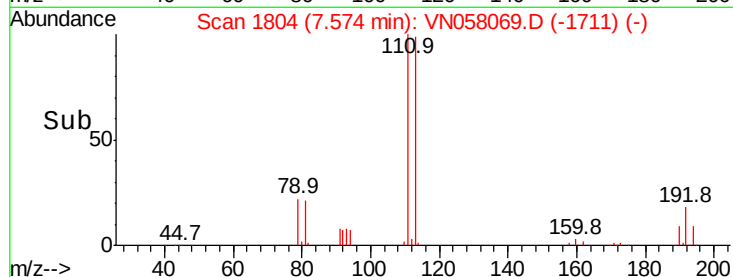
113 100

111 102.4 81.3 121.9

192 18.7 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: 4.342 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN058069.D

Acq: 14 Sep 2019 11:50

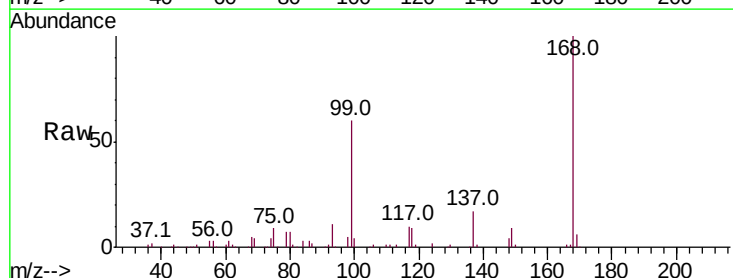
Tgt Ion: 75 Resp: 29167

Ion Ratio Lower Upper

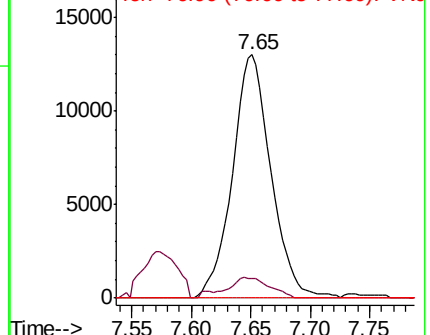
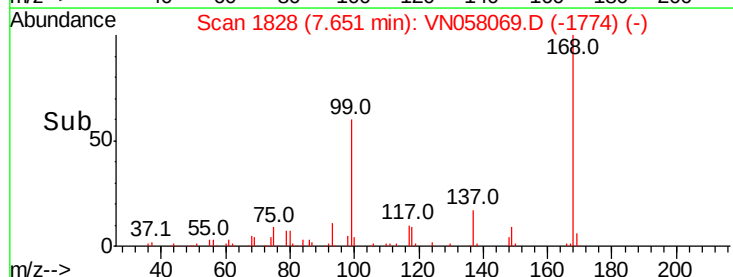
75 100

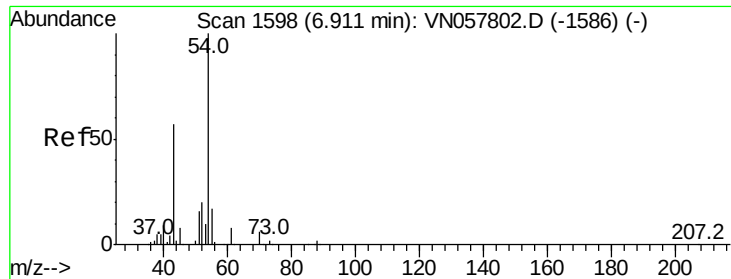
110 8.5 16.3 48.9#

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





#37

Ethyl Acetate

Concen: 0.292 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. -0.08 min

Lab File: VN058069.D

Acq: 14 Sep 2019 11:50

Instrument :
MSVOA_N
ClientSampled :

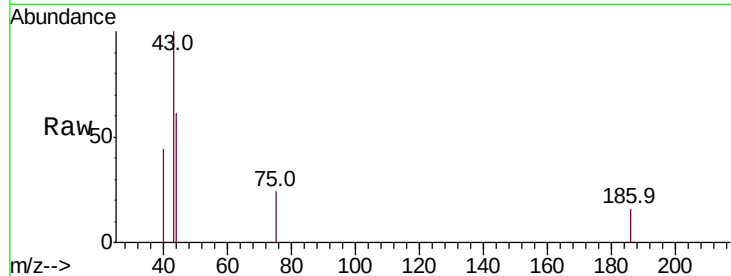
Tot Ion: 43 Resp: 2023

Ion Ratio Lower Upper

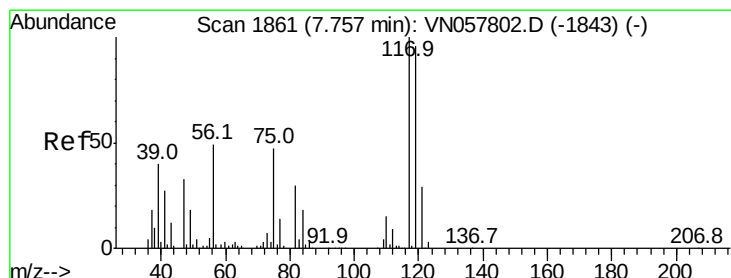
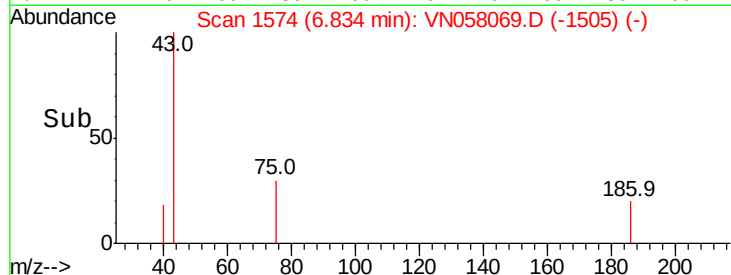
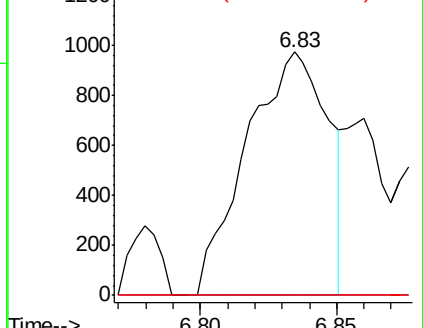
43 100

61 0.0 10.5 15.7#

70 0.0 7.4 11.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0



#38

Carbon Tetrachloride

Concen: 5.411 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058069.D

Acq: 14 Sep 2019 11:50

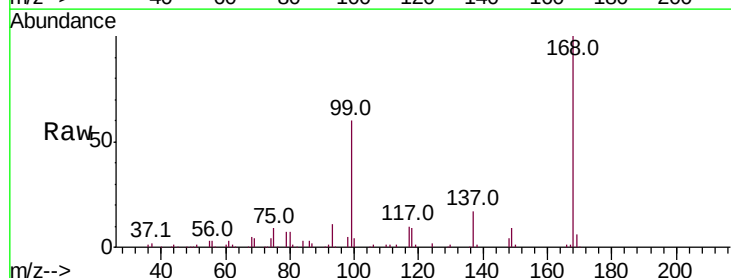
Tgt Ion: 117 Resp: 33186

Ion Ratio Lower Upper

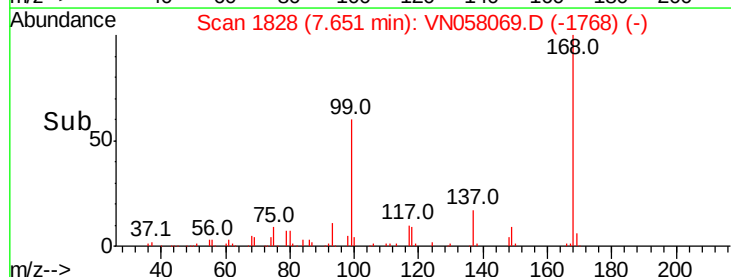
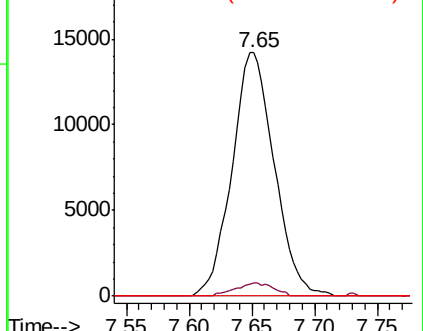
117 100

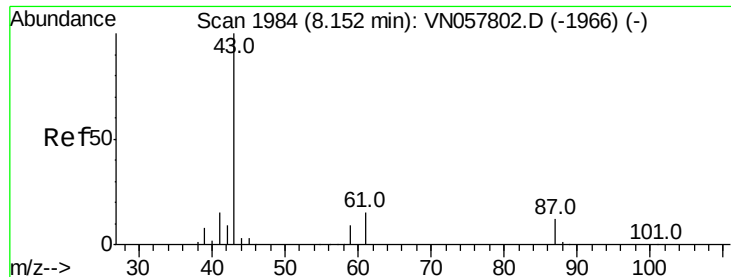
119 5.4 76.9 115.3#

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: 11.323 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058069.D

Acq: 14 Sep 2019 11:50

Instrument :

MSVOA_N

ClientSampleId :

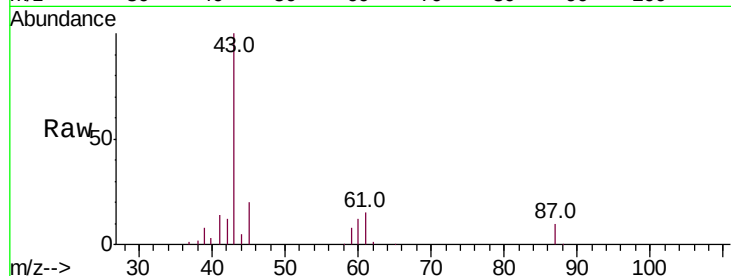
Tot Ion: 43 Resp: 132151

Ion Ratio Lower Upper

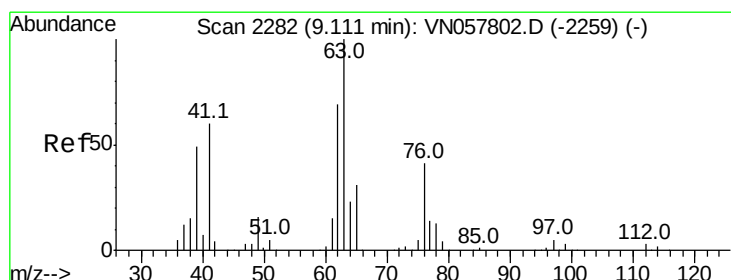
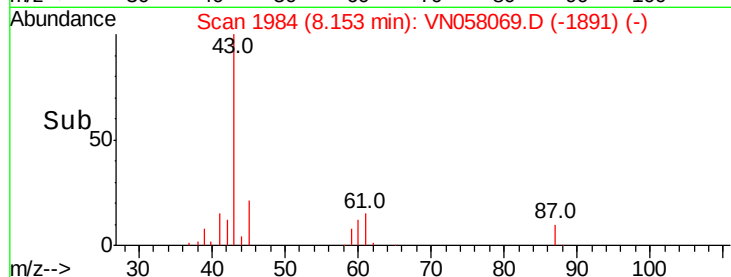
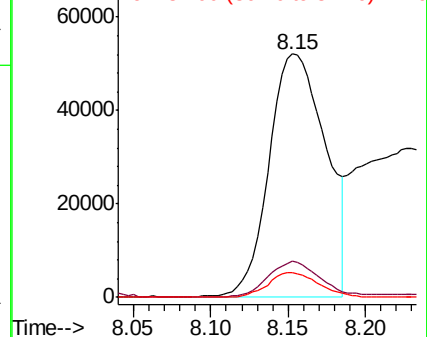
43 100

61 13.9 20.1 30.1#

87 9.1 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 61.00 (60.70 to 61.70): VNC
Ion 87.00 (86.70 to 87.70): VNC



#45

1,2-Dichloropropane

Concen: 0.318 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN058069.D

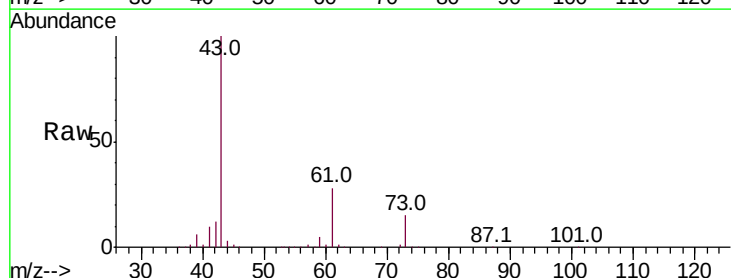
Acq: 14 Sep 2019 11:50

Tgt Ion: 63 Resp: 1870

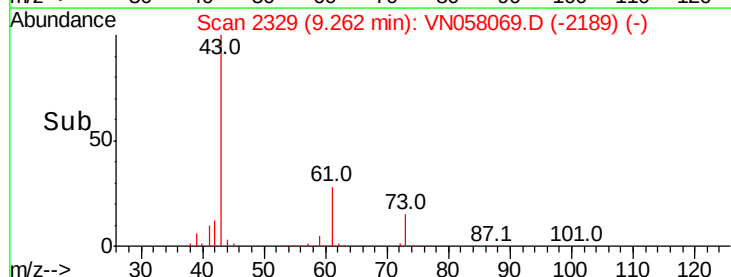
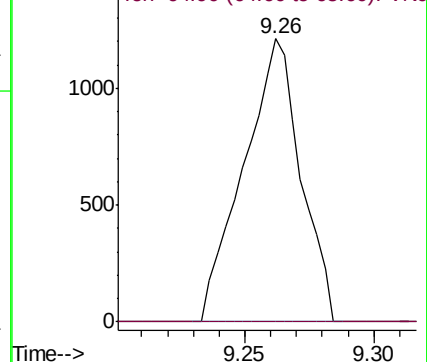
Ion Ratio Lower Upper

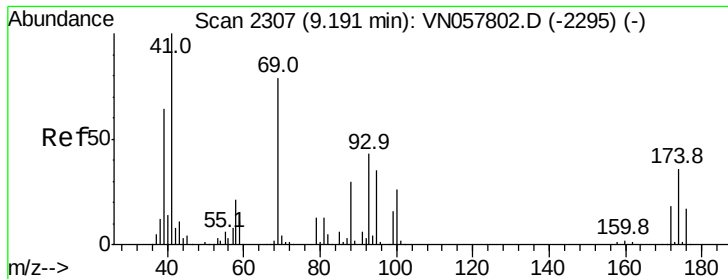
63 100

65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VNC
Ion 64.90 (64.60 to 65.60): VNC

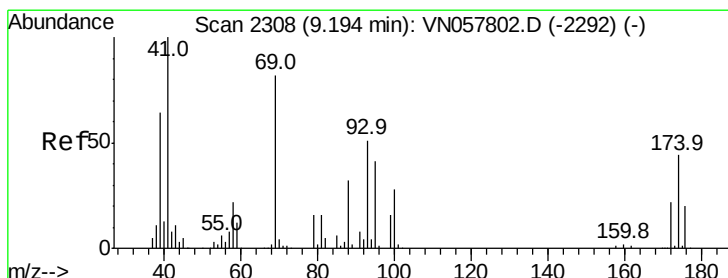
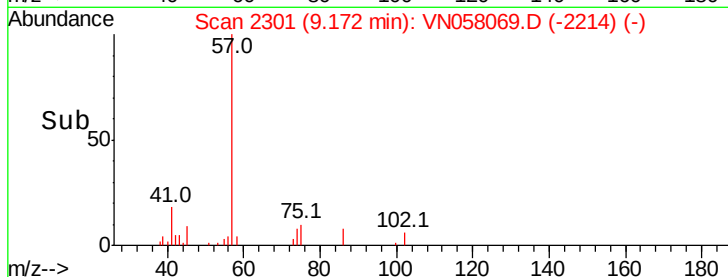
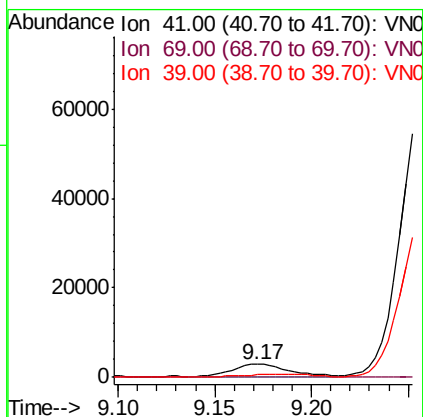
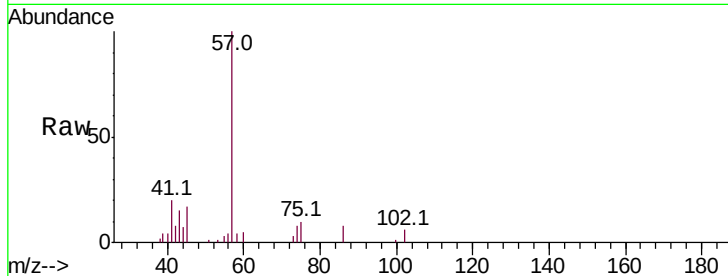




#48
Methyl methacrylate
Concen: 0.936 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.02 min
Lab File: VN058069.D
Acq: 14 Sep 2019 11:50

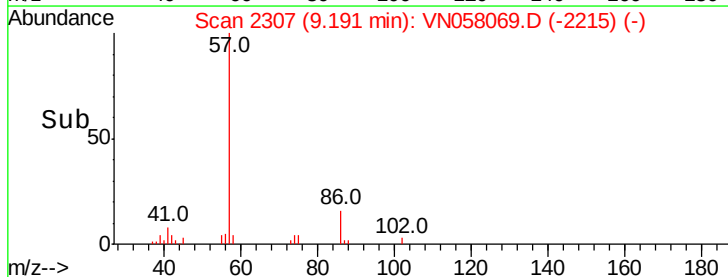
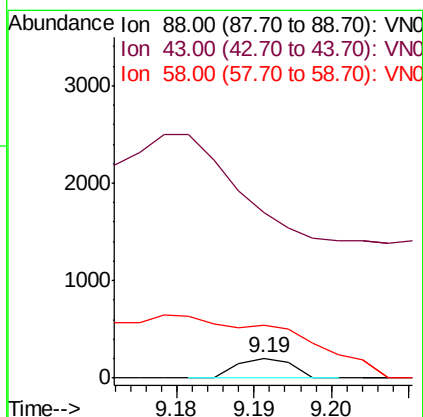
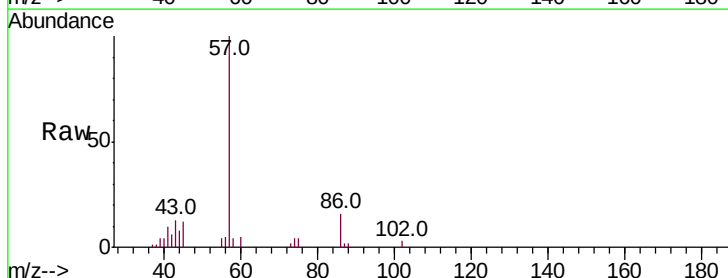
Instrument :
MSVOA_N
ClientSampled :

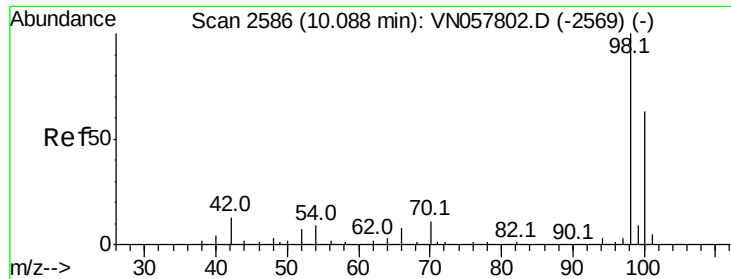
Tot Ion: 41 Resp: 5539
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#49
1,4-Dioxane
Concen: 0.989 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. -0.00 min
Lab File: VN058069.D
Acq: 14 Sep 2019 11:50

Tgt Ion: 88 Resp: 99
Ion Ratio Lower Upper
88 100
43 0.0 28.5 42.7#
58 1501.0 55.8 83.6#





#50

Toluene-d8

Concen: 49.890 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058069.D

Acq: 14 Sep 2019 11:50

Instrument :

MSVOA_N

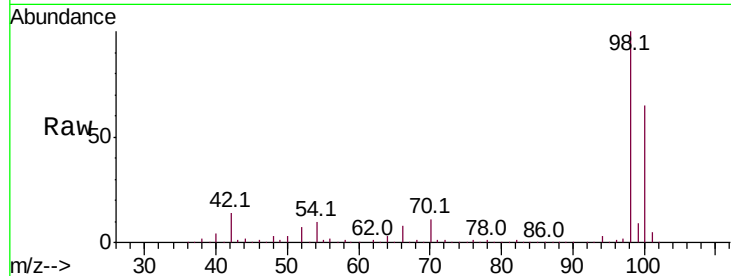
ClientSampled :

Tot Ion: 98 Resp: 1035443

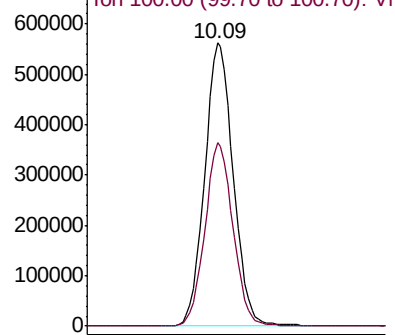
Ion Ratio Lower Upper

98 100

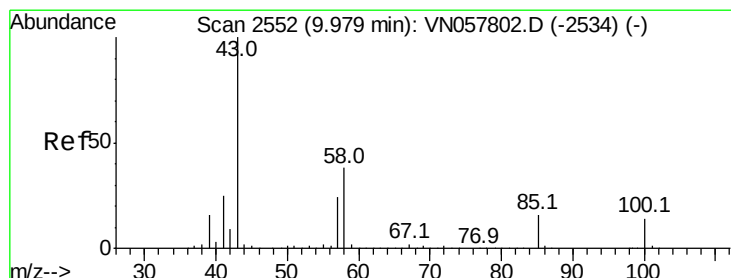
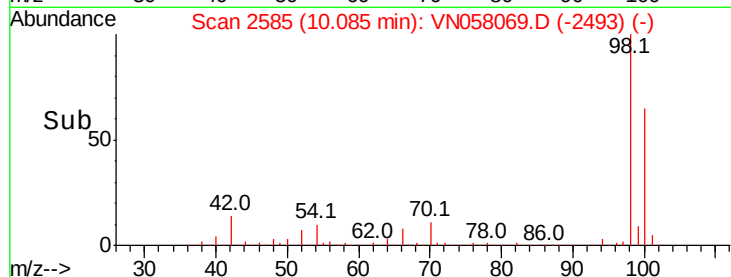
100 63.9 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN057802.D (-2569) (-)



Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.893 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN058069.D

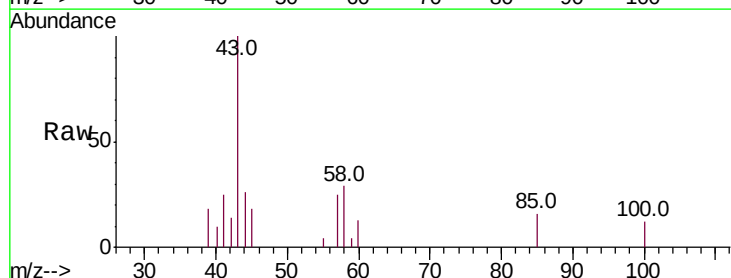
Acq: 14 Sep 2019 11:50

Tgt Ion: 43 Resp: 6167

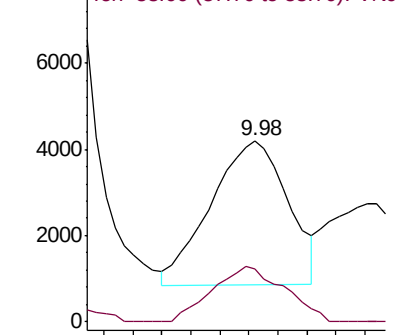
Ion Ratio Lower Upper

43 100

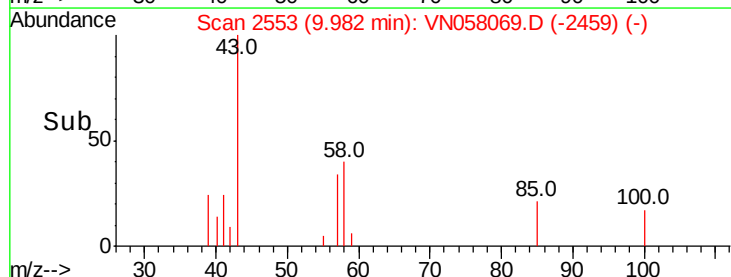
58 36.1 29.8 44.6

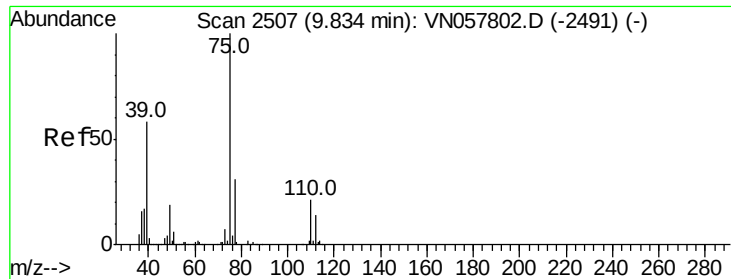


Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)



Time-->





#54

cis-1,3-Dichloropropene

Concen: 4.218 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN058069.D

Acq: 14 Sep 2019 11:50

Instrument :

MSVOA_N

ClientSampleId :

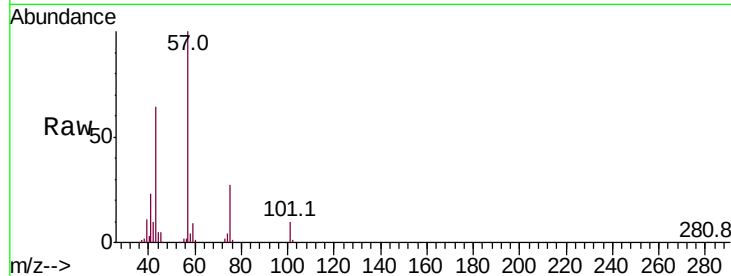
Tot Ion: 75 Resp: 34820

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

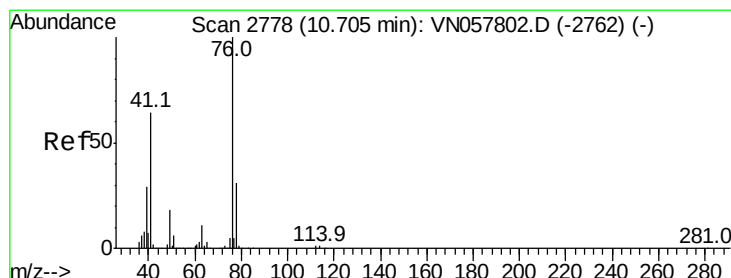
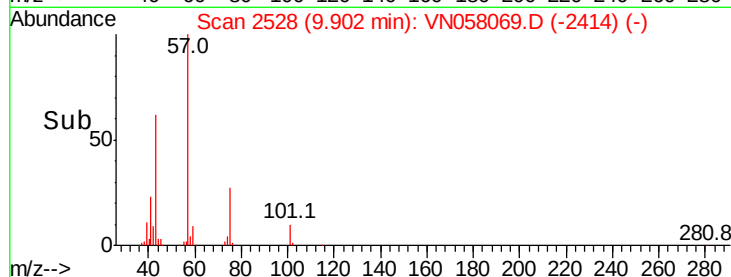
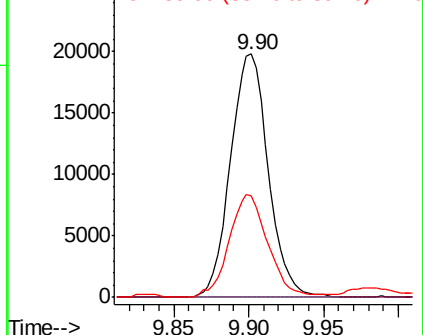
39 41.8 46.2 69.4#



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



#57

1,3-Dichloropropane

Concen: 0.381 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058069.D

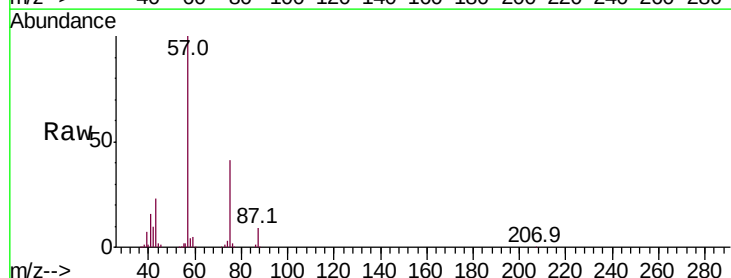
Acq: 14 Sep 2019 11:50

Tgt Ion: 76 Resp: 3542

Ion Ratio Lower Upper

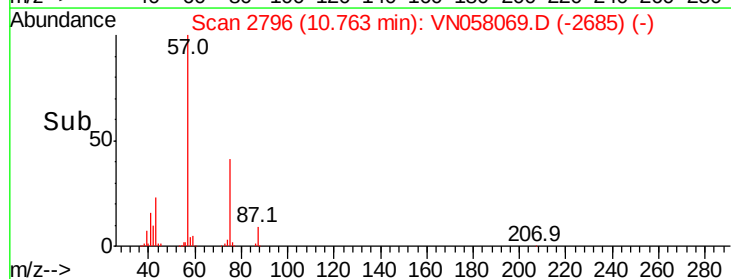
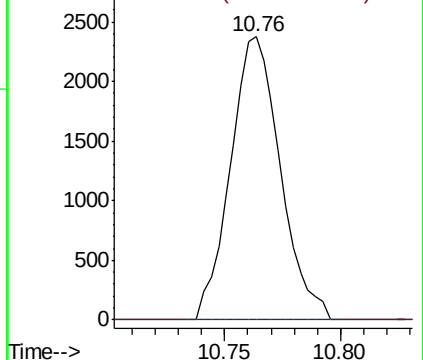
76 100

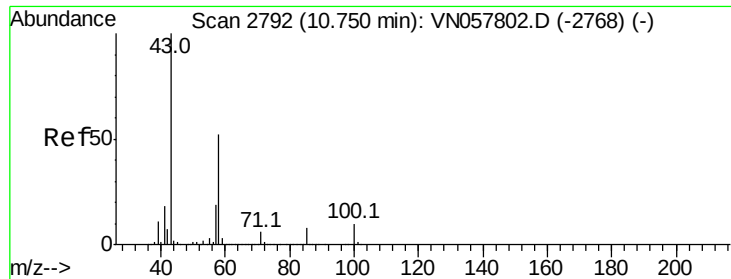
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

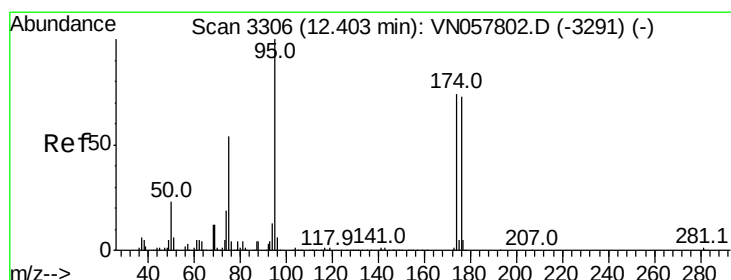
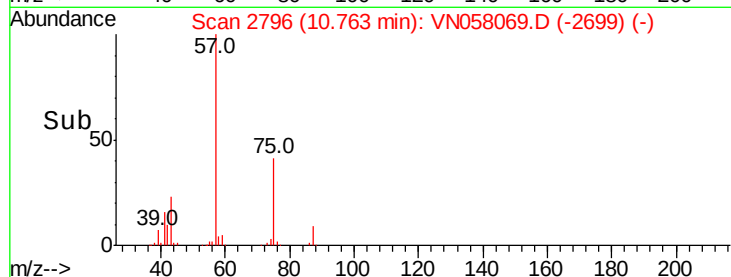
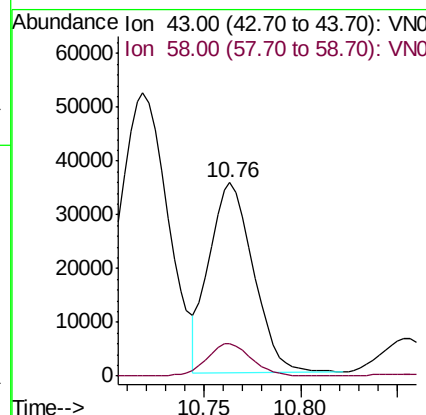
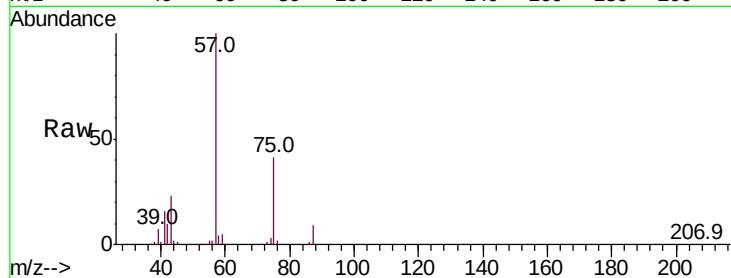




#59
2-Hexanone
Concen: 10.834 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN058069.D
Acq: 14 Sep 2019 11:50

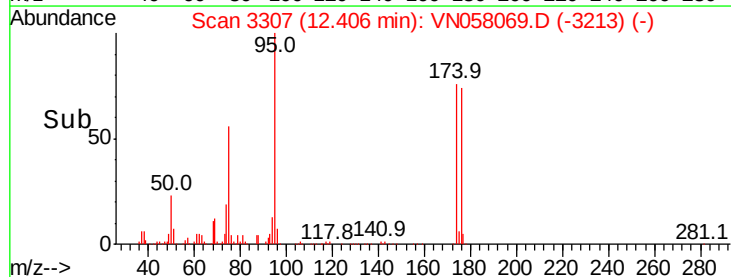
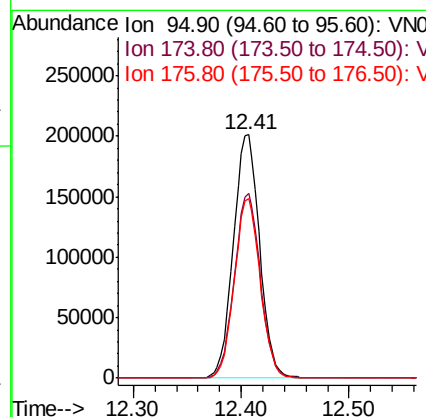
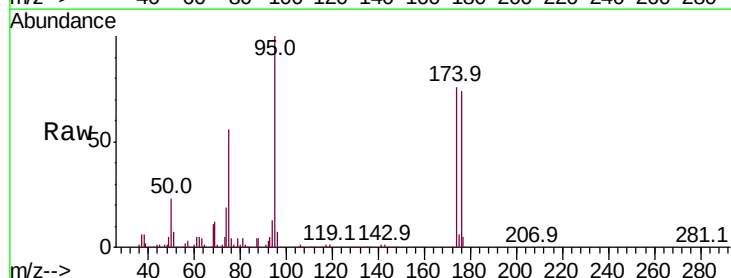
Instrument :
MSVOA_N
ClientSampleId :

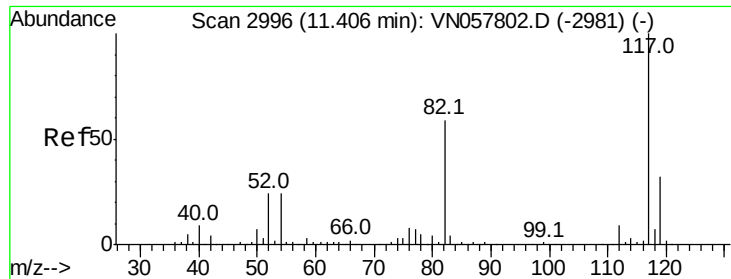
Tot Ion: 43 Resp: 56081
Ion Ratio Lower Upper
43 100
58 17.5 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 43.205 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058069.D
Acq: 14 Sep 2019 11:50

Tgt Ion: 95 Resp: 341724
Ion Ratio Lower Upper
95 100
174 75.2 0.0 150.2
176 72.4 0.0 146.0

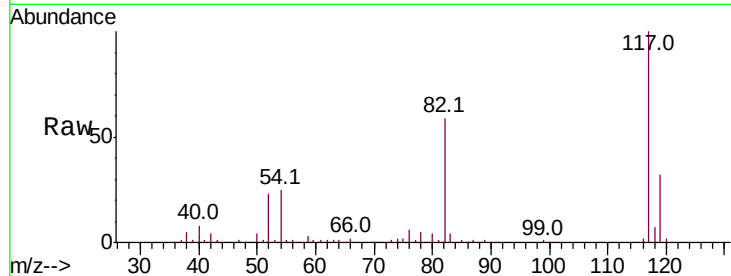




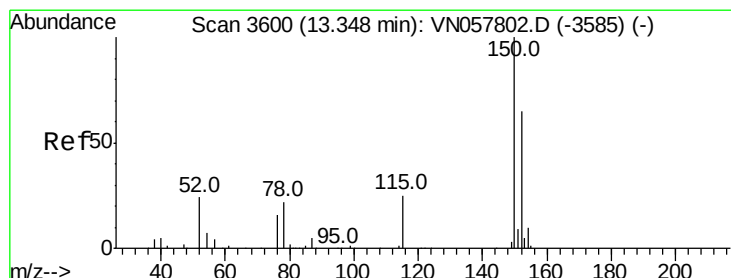
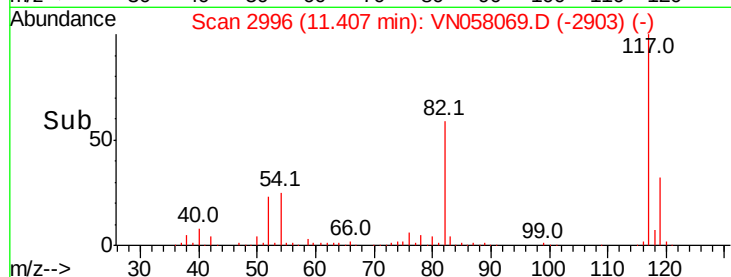
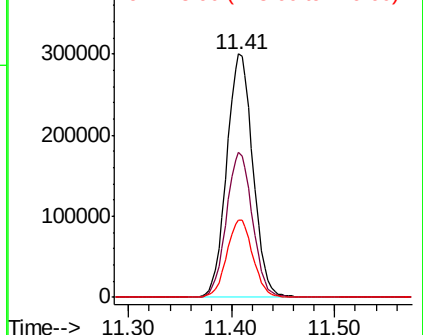
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058069.D
Acq: 14 Sep 2019 11:50

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 532074
Ion Ratio Lower Upper
117 100
82 59.5 47.2 70.8
119 31.9 25.3 37.9

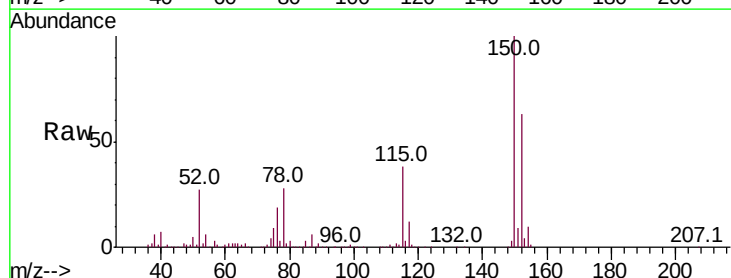


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

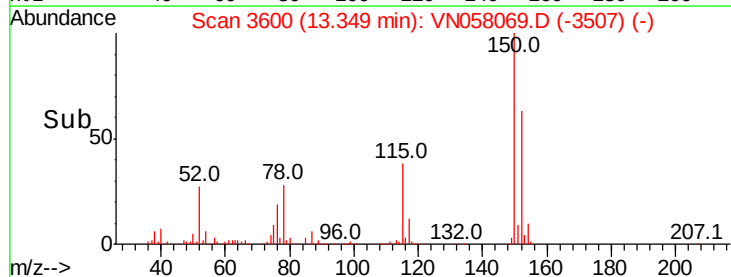
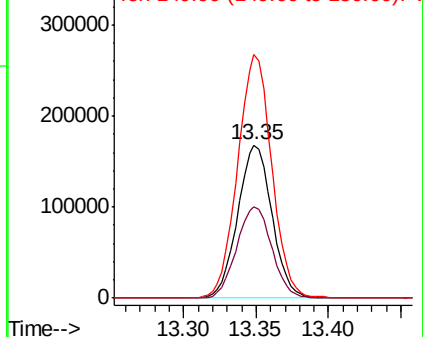


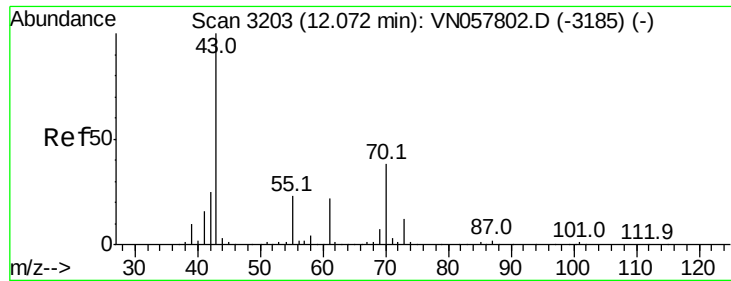
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058069.D
Acq: 14 Sep 2019 11:50

Tgt Ion:152 Resp: 276180
Ion Ratio Lower Upper
152 100
115 61.2 30.3 91.0
150 158.7 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: 0.230 ug/l

RT: 12.06 min Scan# 3198

Delta R.T. -0.02 min

Lab File: VN058069.D

Acq: 14 Sep 2019 11:50

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2141

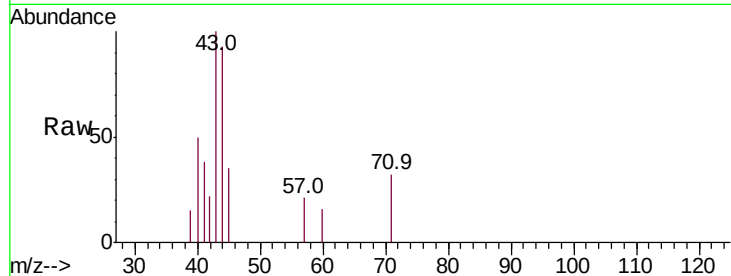
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 0.0 18.6 27.8#

61 0.0 17.4 26.2#

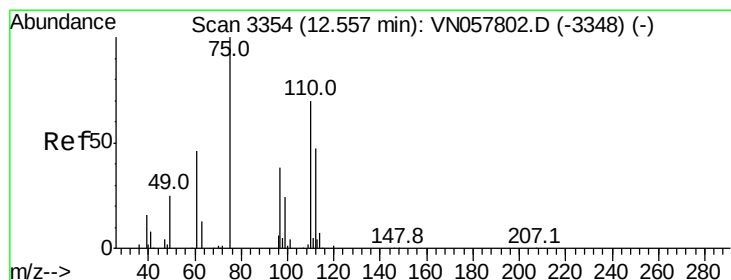
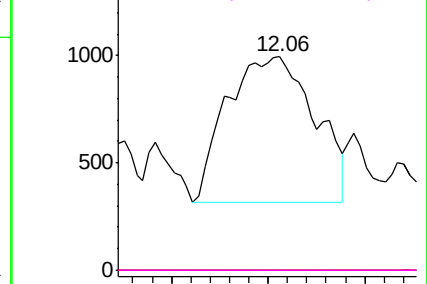
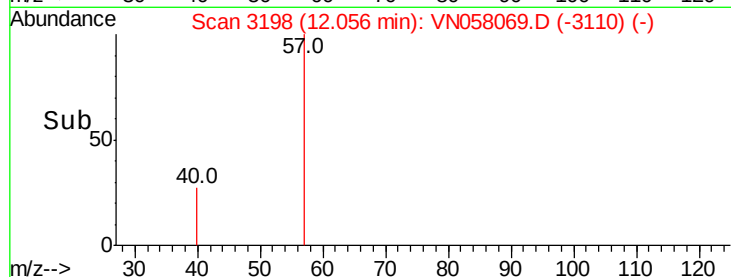


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 30.286 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058069.D

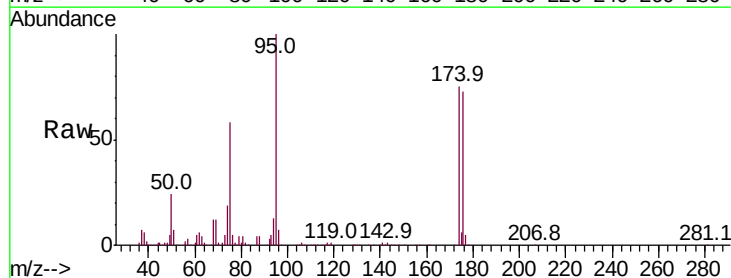
Acq: 14 Sep 2019 11:50

Tgt Ion: 75 Resp: 189214

Ion Ratio Lower Upper

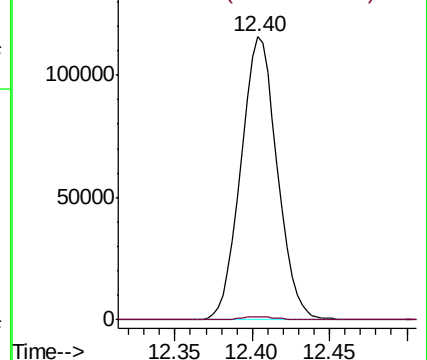
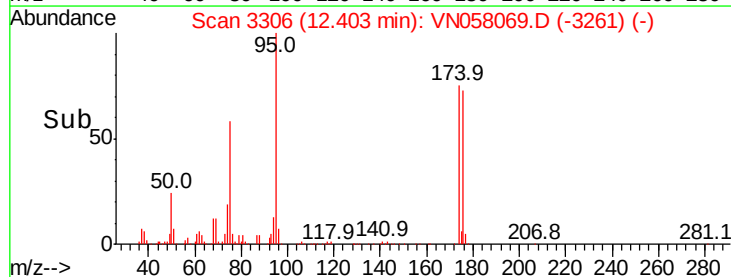
75 100

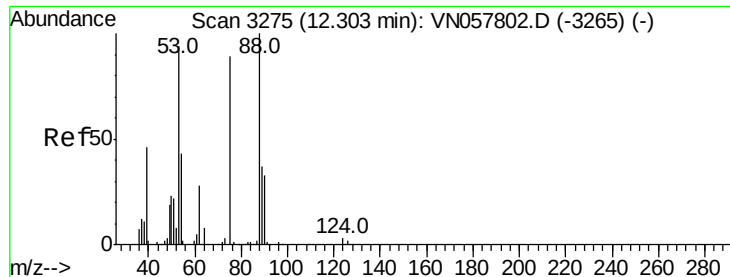
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 106.575 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058069.D

Acq: 14 Sep 2019 11:50

Instrument :

MSVOA_N

ClientSampleId :

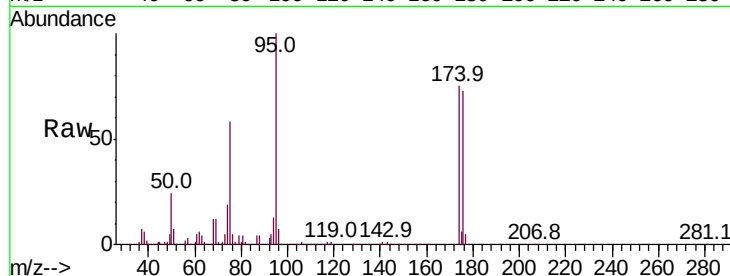
Tot Ion: 75 Resp: 189214

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

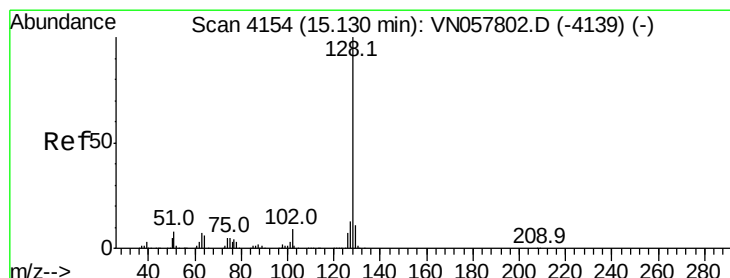
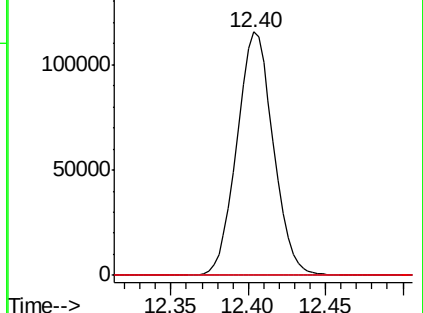
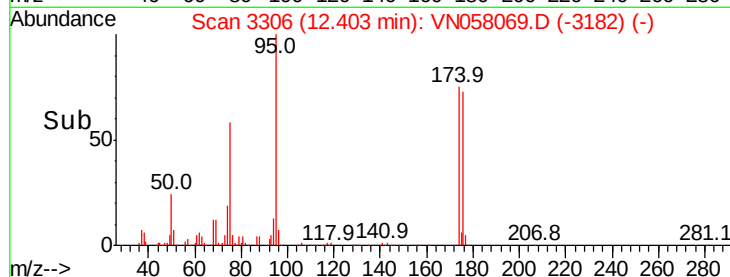
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN058069.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN058069.D (-3306) (-)

Ion 88.90 (88.60 to 89.60): VN058069.D (-3306) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN058069.D

Acq: 14 Sep 2019 11:50

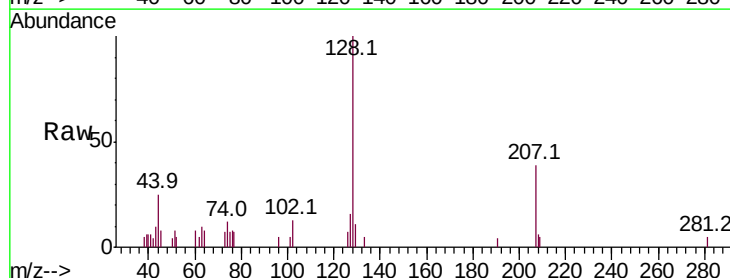
Tgt Ion: 128 Resp: 8191

Ion Ratio Lower Upper

128 100

127 15.7 10.3 15.5#

129 8.2 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VN058069.D (-4156) (-)

Ion 127.00 (126.70 to 127.70): VN058069.D (-4156) (-)

Ion 129.00 (128.70 to 129.70): VN058069.D (-4156) (-)

