

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091119\
 Data File : VN057916.D
 Acq On : 11 Sep 2019 11:45
 Operator : JC/SP
 Sample : K4644-17
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 59 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-D2-(0)

Quant Time: Sep 12 01:32:14 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	296534	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	499533	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	459446	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	234295	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	336070	55.96	ug/l	0.00
Spiked Amount			Recovery	=	111.92%	
35) Dibromofluoromethane	7.58	113	225678	48.95	ug/l	0.00
Spiked Amount			Recovery	=	97.90%	
50) Toluene-d8	10.09	98	896169	50.06	ug/l	0.00
Spiked Amount			Recovery	=	100.12%	
62) 4-Bromofluorobenzene	12.40	95	297314	43.58	ug/l	0.00
Spiked Amount			Recovery	=	87.16%	

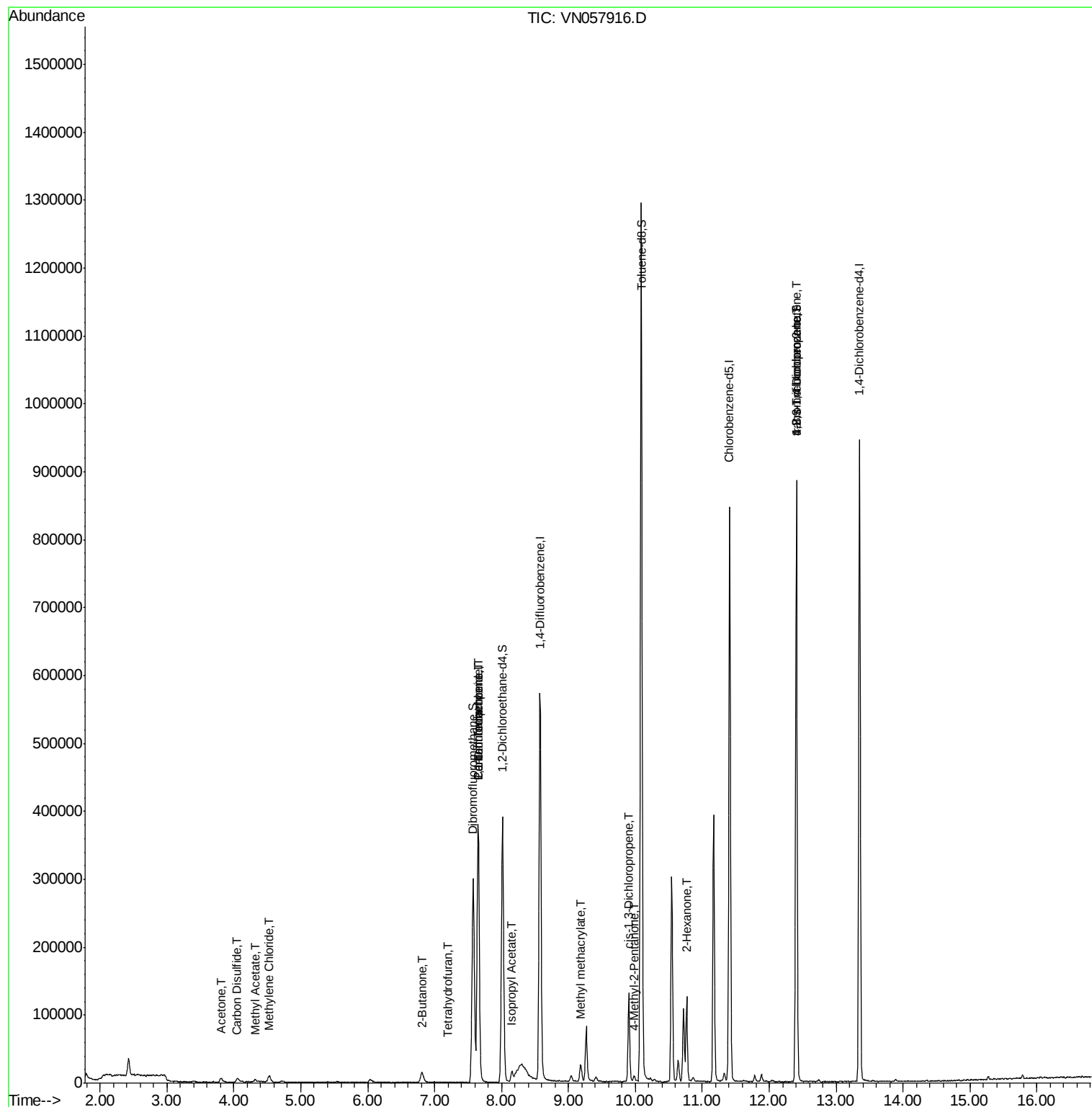
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	186	Below Cal		95
16) Acetone	3.81	43	10822	5.496	ug/l	92
17) Carbon Disulfide	4.03	76	239	0.207	ug/l #	75
18) Methyl Acetate	4.31	43	6118	1.165	ug/l #	76
20) Methylene Chloride	4.53	84	7066	0.671	ug/l	94
25) 2-Butanone	6.81	43	988	0.347	ug/l #	49
29) Tetrahydrofuran	7.20	42	547	0.312	ug/l #	50
31) Cyclohexane	7.66	56	7679	Below Cal	#	38
36) 1,1-Dichloropropene	7.65	75	25996	4.487	ug/l #	47
38) Carbon Tetrachloride	7.65	117	31015	5.864	ug/l #	17
43) Isopropyl Acetate	8.16	43	19864	1.973	ug/l #	89
48) Methyl methacrylate	9.18	41	4130	0.809	ug/l #	32
51) 4-Methyl-2-Pentanone	9.98	43	4745	0.797	ug/l #	87
54) cis-1,3-Dichloropropene	9.90	75	21858	3.070	ug/l #	69
59) 2-Hexanone	10.76	43	18932	4.240	ug/l #	58
76) 1,2,3-Trichloropropane	12.41	75	161598	30.489	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	161598	107.292	ug/l #	6
95) Naphthalene	15.14	128	1179	Below Cal	#	69

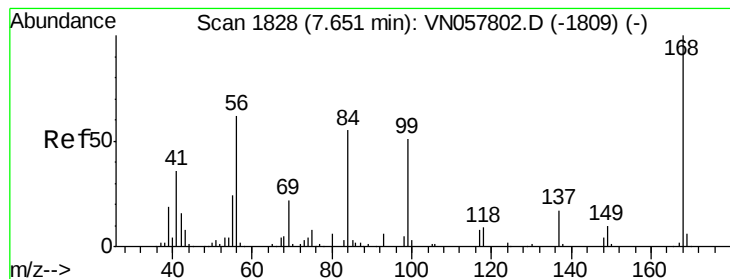
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057916.D

Acq: 11 Sep 2019 11:45

Instrument :

MSVOA_N

ClientSampleId :

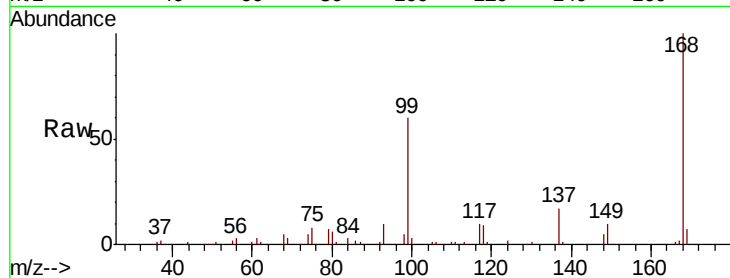
T11-D2-(0)

Tgt Ion:168 Resp: 296534

Ion Ratio Lower Upper

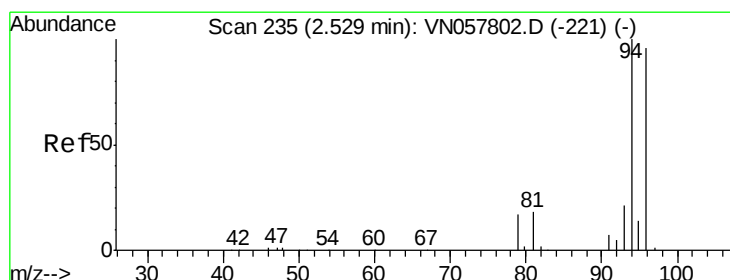
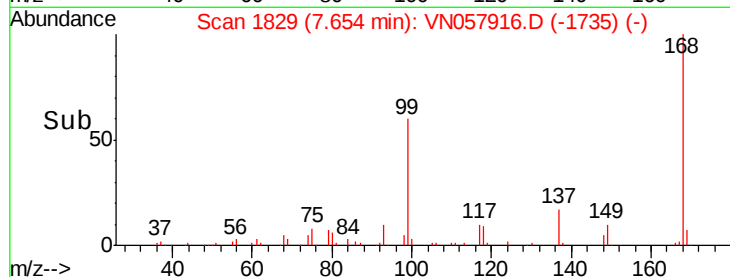
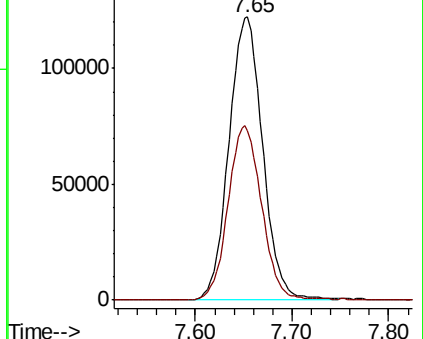
168 100

99 59.7 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 238

Delta R.T. 0.01 min

Lab File: VN057916.D

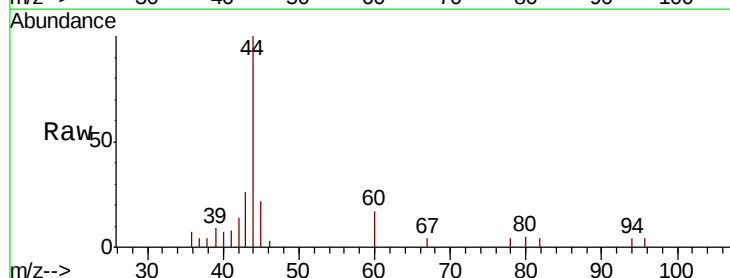
Acq: 11 Sep 2019 11:45

Tgt Ion: 94 Resp: 186

Ion Ratio Lower Upper

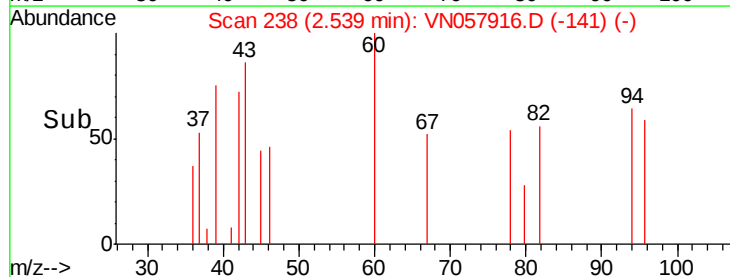
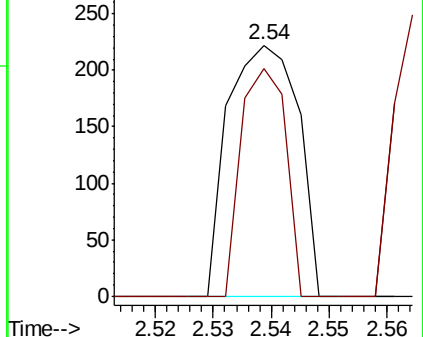
94 100

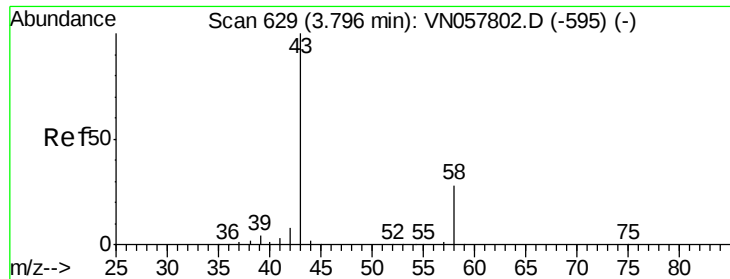
96 91.0 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN





#16

Acetone

Concen: 5.496 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.01 min

Lab File: VN057916.D

Acq: 11 Sep 2019 11:45

Instrument :

MSVOA_N

ClientSampleId :

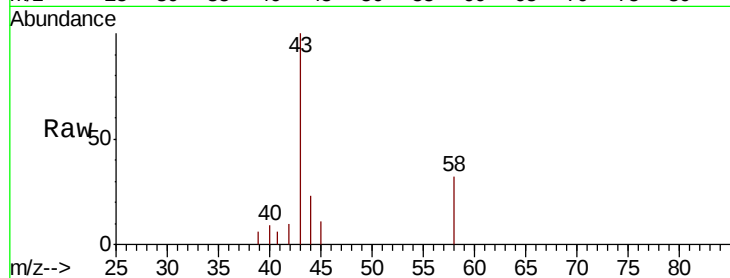
T11-D2-(0)

Tgt Ion: 43 Resp: 10822

Ion Ratio Lower Upper

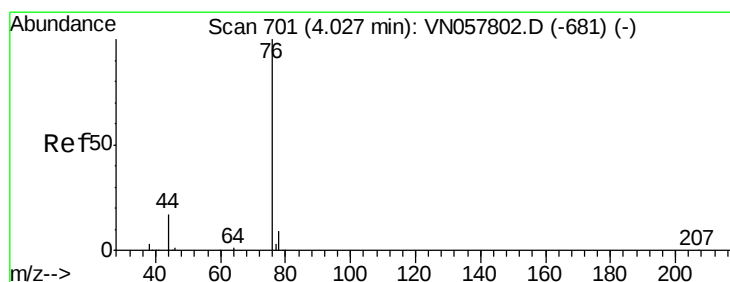
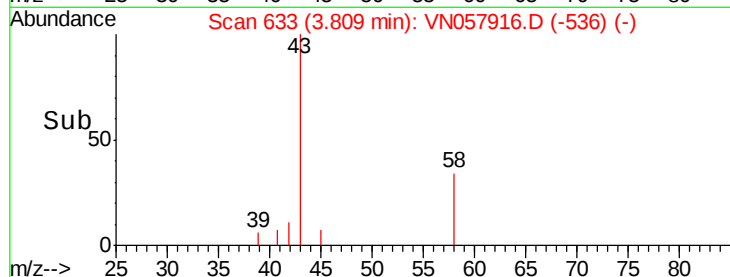
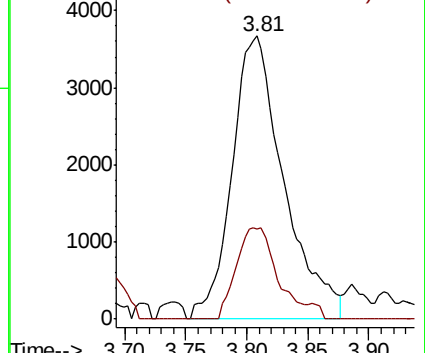
43 100

58 31.8 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN057916.D (-536) (-)

Ion 58.00 (57.70 to 58.70): VN057916.D (-536) (-)



#17

Carbon Disulfide

Concen: 0.207 ug/l

RT: 4.03 min Scan# 701

Delta R.T. 0.00 min

Lab File: VN057916.D

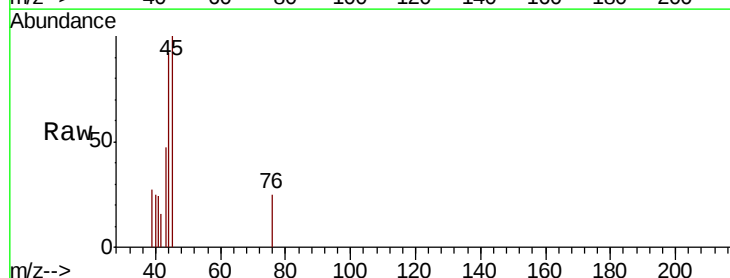
Acq: 11 Sep 2019 11:45

Tgt Ion: 76 Resp: 239

Ion Ratio Lower Upper

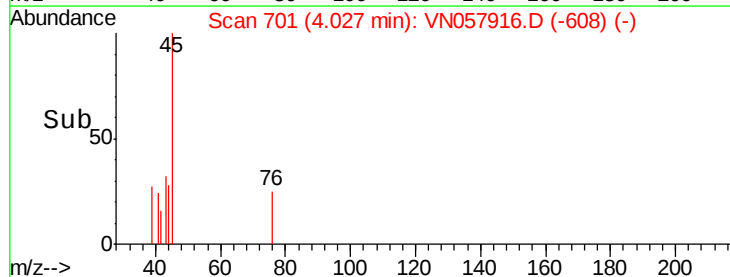
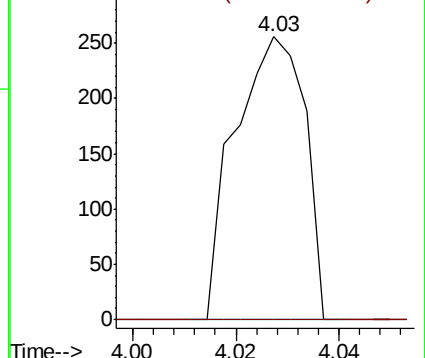
76 100

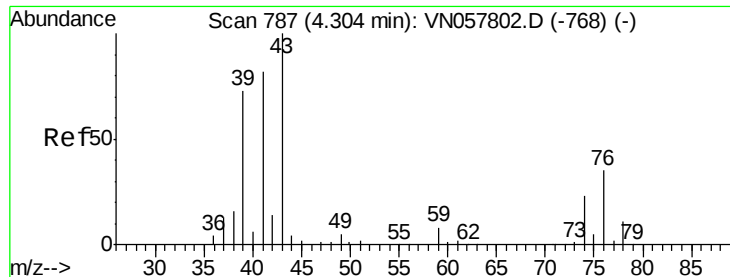
78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN057916.D (-608) (-)

Ion 77.90 (77.60 to 78.60): VN057916.D (-608) (-)

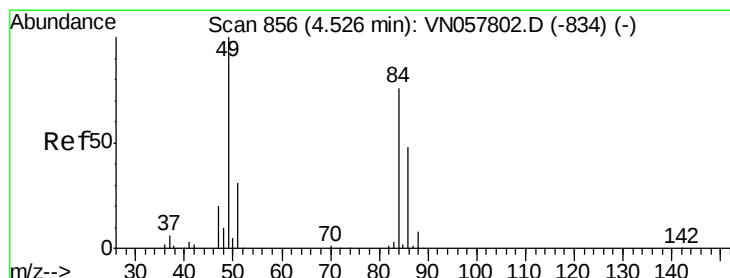
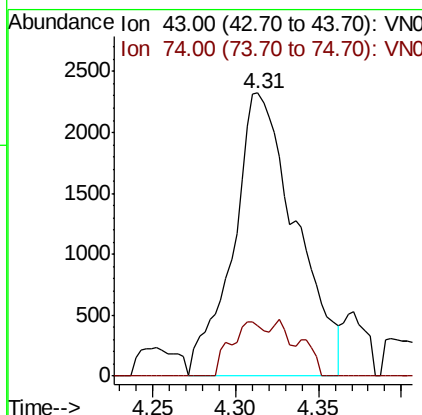
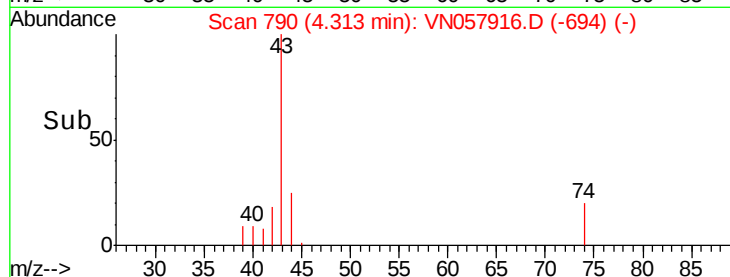
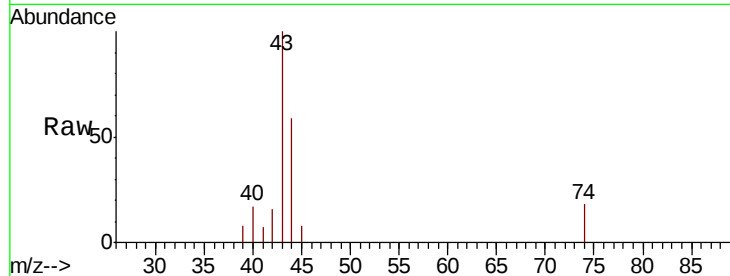




#18
Methyl Acetate
Concen: 1.165 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN057916.D
Acq: 11 Sep 2019 11:45

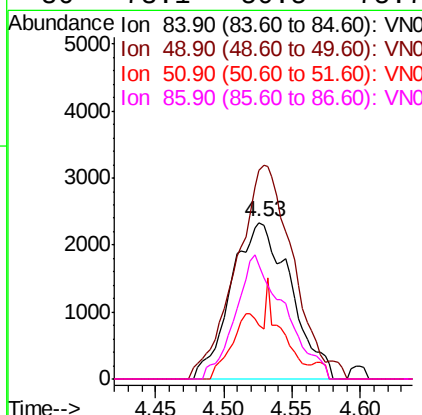
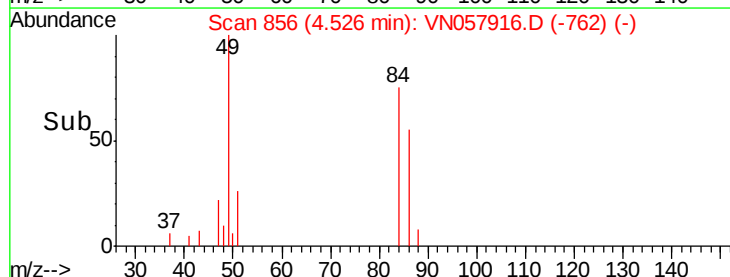
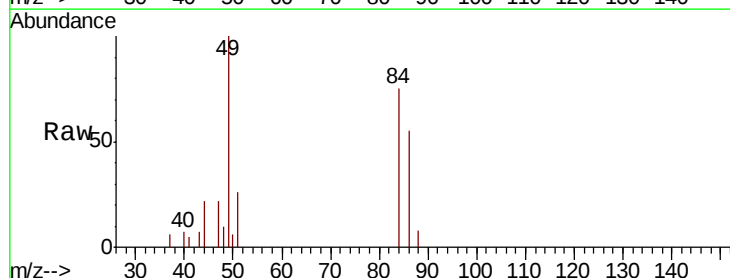
Instrument :
MSVOA_N
ClientSampleId :
T11-D2-(0)

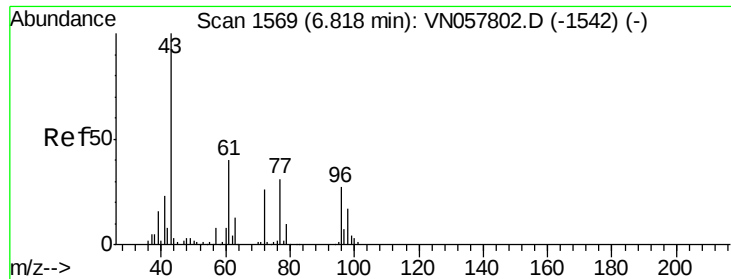
Tgt Ion: 43 Resp: 6118
Ion Ratio Lower Upper
43 100
74 10.9 17.9 26.9#



#20
Methylene Chloride
Concen: 0.671 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN057916.D
Acq: 11 Sep 2019 11:45

Tgt Ion: 84 Resp: 7066
Ion Ratio Lower Upper
84 100
49 133.5 104.8 157.2
51 34.6 33.0 49.4
86 73.1 50.5 75.7

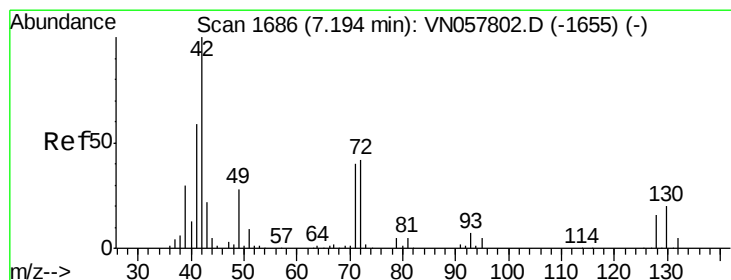
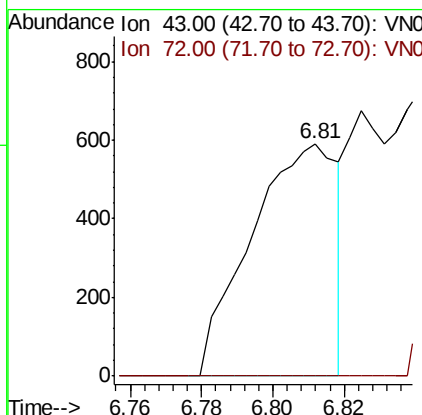
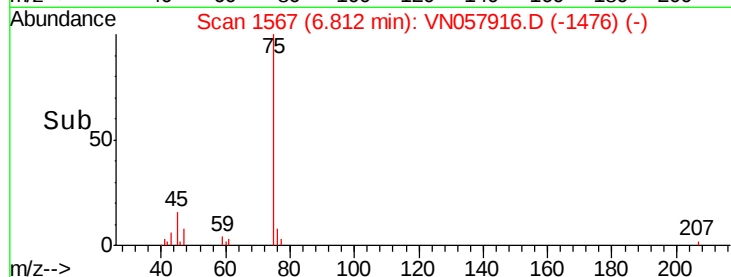
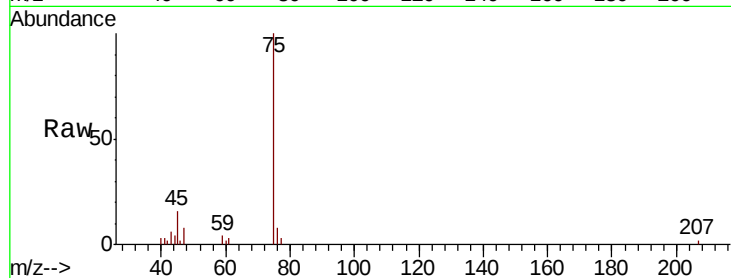




#25
2-Butanone
Concen: 0.347 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. -0.01 min
Lab File: VN057916.D
Acq: 11 Sep 2019 11:45

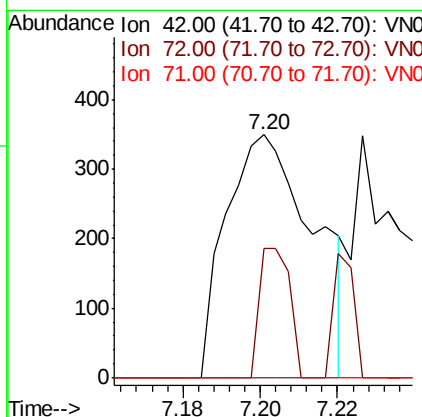
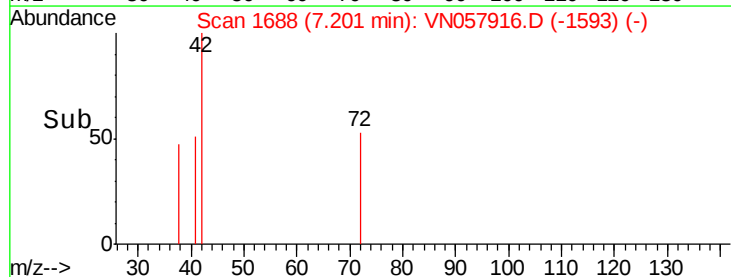
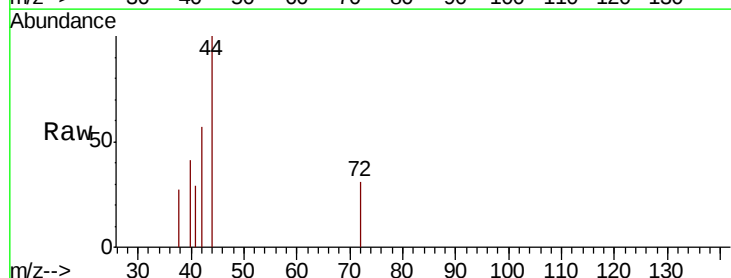
Instrument :
MSVOA_N
ClientSampled :
T11-D2-(0)

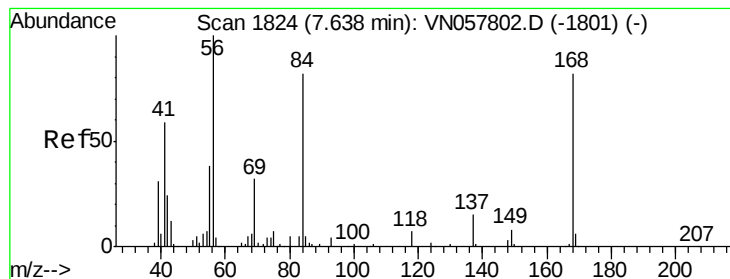
Tgt Ion: 43 Resp: 988
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#



#29
Tetrahydrofuran
Concen: 0.312 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.01 min
Lab File: VN057916.D
Acq: 11 Sep 2019 11:45

Tgt Ion: 42 Resp: 547
Ion Ratio Lower Upper
42 100
72 18.6 33.7 50.5#
71 0.0 31.9 47.9#





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1830

Delta R.T. 0.02 min

Lab File: VN057916.D

Acq: 11 Sep 2019 11:45

Instrument :

MSVOA_N

ClientSampleId :

T11-D2-(0)

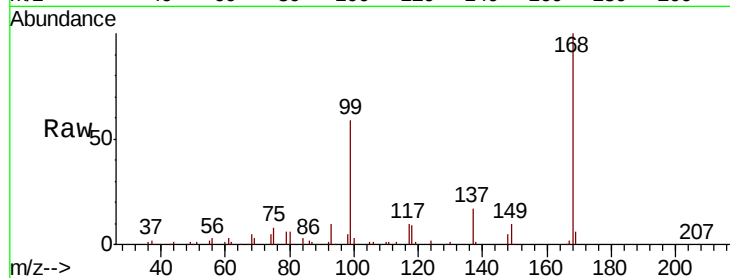
Tgt Ion: 56 Resp: 7679

Ion Ratio Lower Upper

56 100

69 123.6 25.9 38.9#

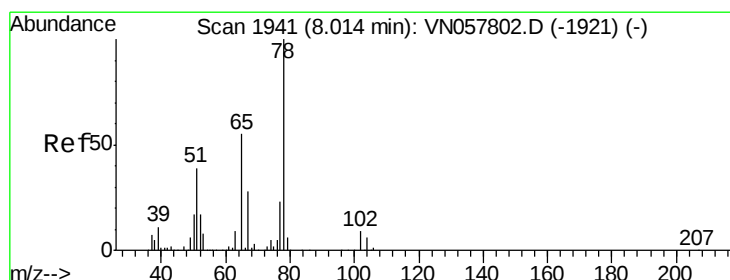
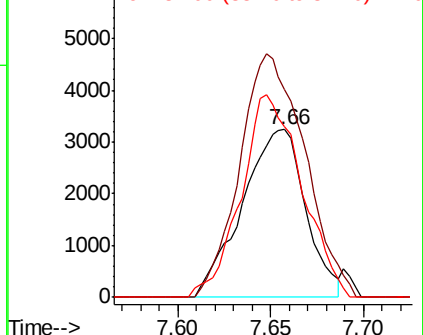
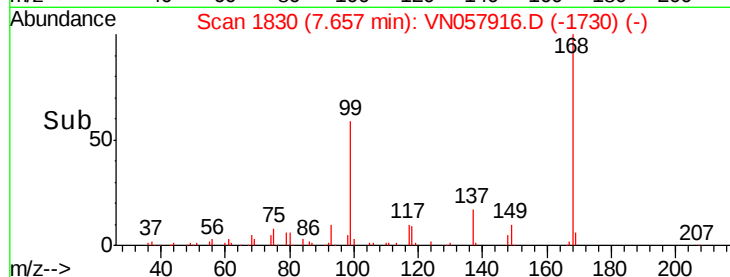
84 101.5 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 55.955 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057916.D

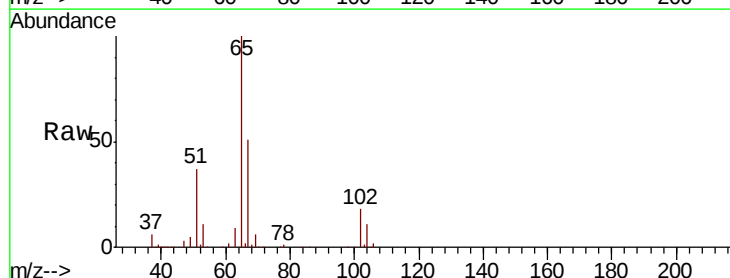
Acq: 11 Sep 2019 11:45

Tgt Ion: 65 Resp: 336070

Ion Ratio Lower Upper

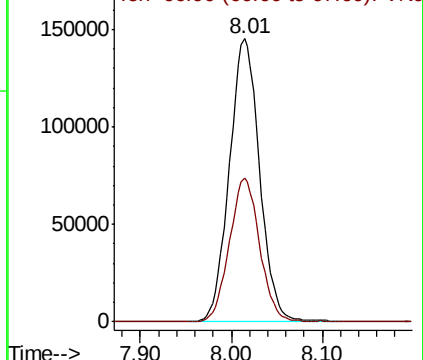
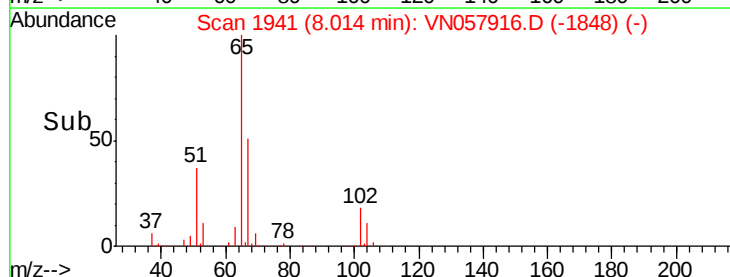
65 100

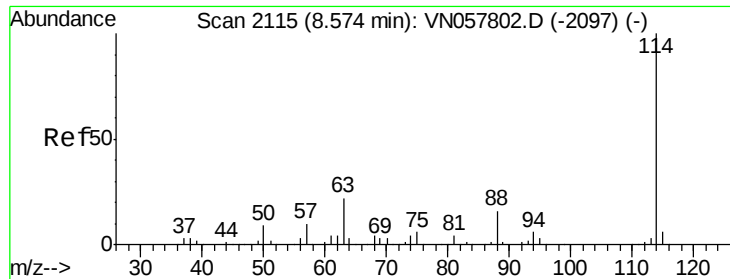
67 50.6 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

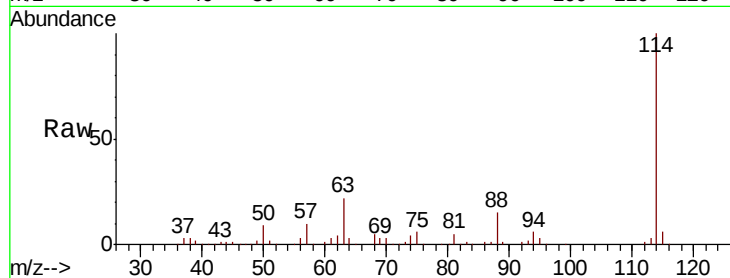




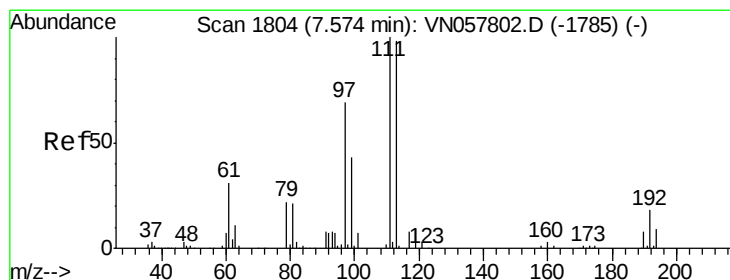
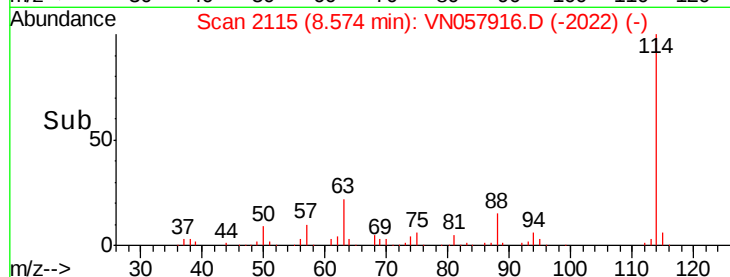
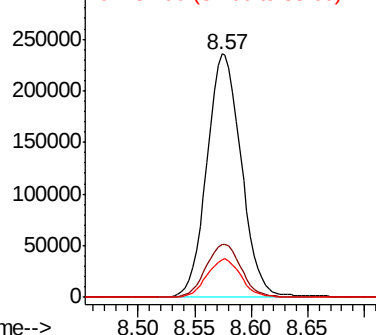
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN057916.D
 Acq: 11 Sep 2019 11:45

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-D2-(0)

Tgt Ion:114 Resp: 499533
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 44.0
 88 15.4 0.0 31.4

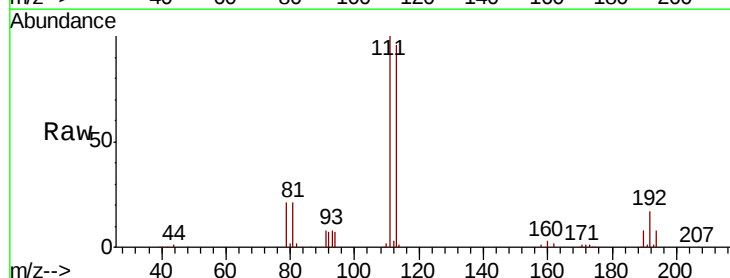


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

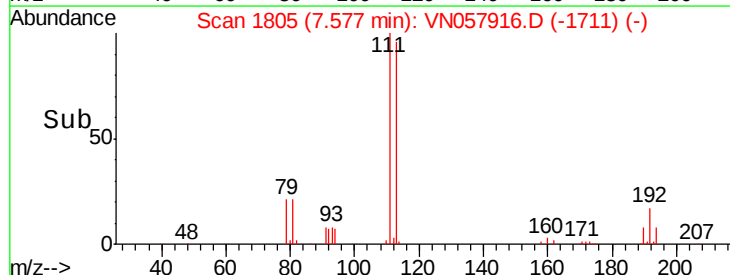
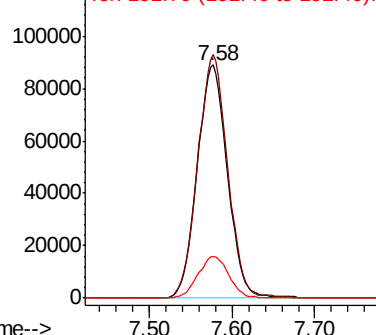


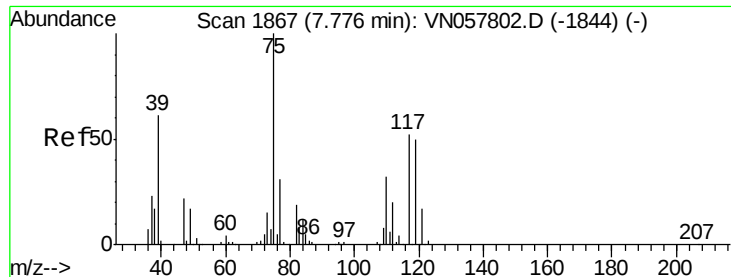
#35
 Dibromofluoromethane
 Concen: 48.949 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057916.D
 Acq: 11 Sep 2019 11:45

Tgt Ion:113 Resp: 225678
 Ion Ratio Lower Upper
 113 100
 111 103.3 81.3 121.9
 192 18.1 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: 4.487 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN057916.D

Acq: 11 Sep 2019 11:45

Instrument :

MSVOA_N

ClientSampleId :

T11-D2-(0)

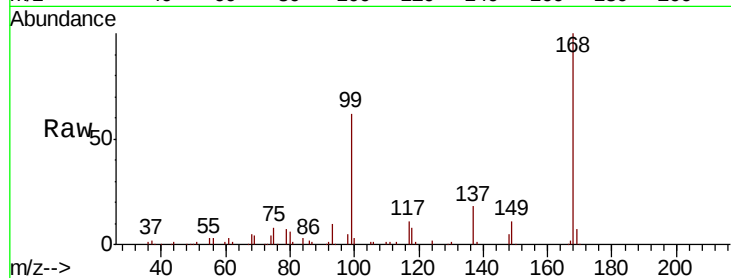
Tgt Ion: 75 Resp: 25996

Ion Ratio Lower Upper

75 100

110 4.8 16.3 48.9#

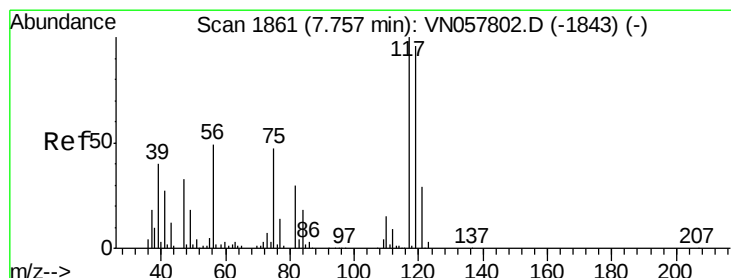
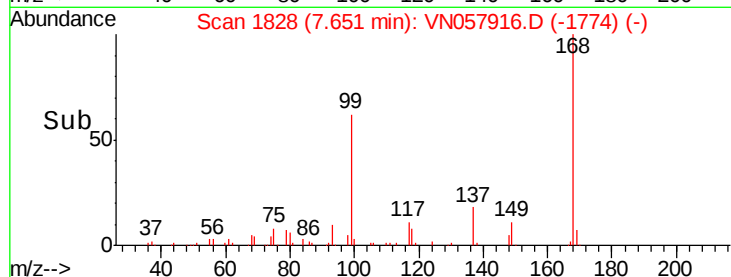
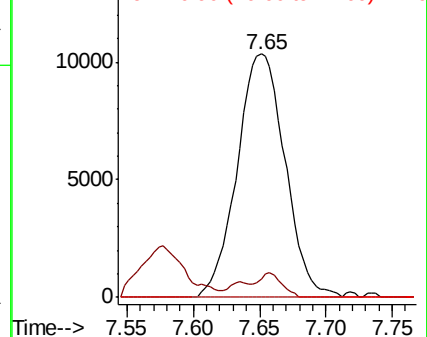
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN057916.D (-1774) (-)

Ion 109.90 (109.60 to 110.60): VN057916.D (-1774) (-)

Ion 76.90 (76.60 to 77.60): VN057916.D (-1774) (-)



#38

Carbon Tetrachloride

Concen: 5.864 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057916.D

Acq: 11 Sep 2019 11:45

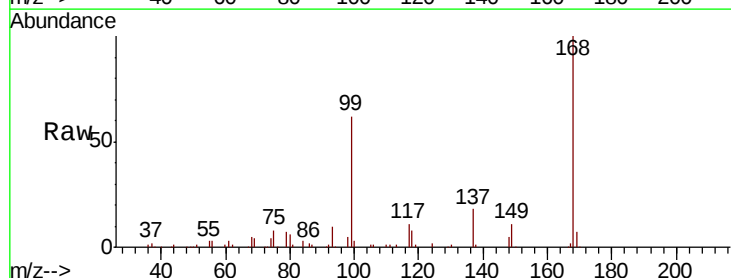
Tgt Ion: 117 Resp: 31015

Ion Ratio Lower Upper

117 100

119 6.3 76.9 115.3#

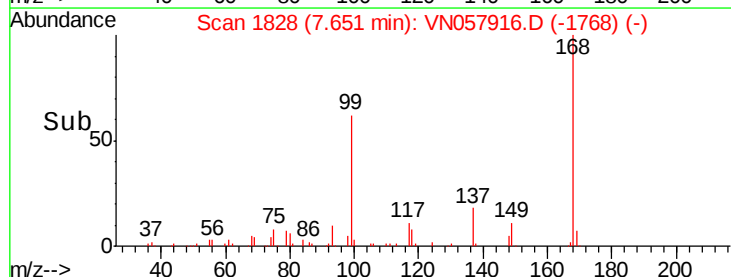
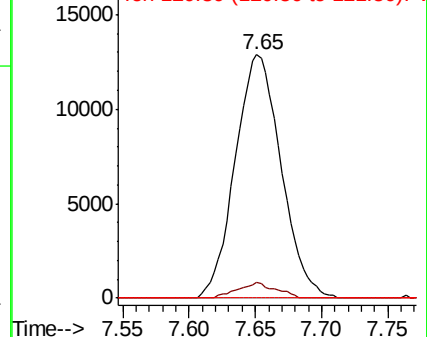
121 0.0 23.4 35.2#

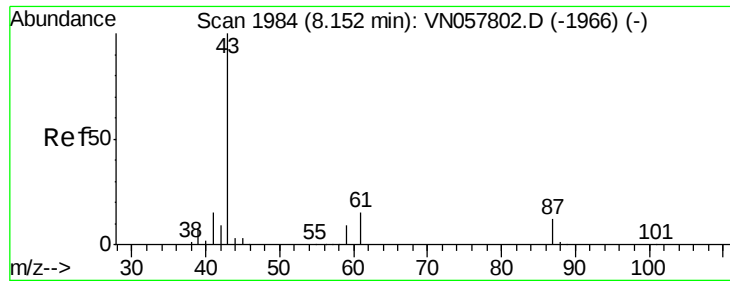


Abundance Ion 116.80 (116.50 to 117.50): VN057916.D (-1768) (-)

Ion 118.80 (118.50 to 119.50): VN057916.D (-1768) (-)

Ion 120.80 (120.50 to 121.50): VN057916.D (-1768) (-)





#43

Isopropyl Acetate

Concen: 1.973 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057916.D

Acq: 11 Sep 2019 11:45

Instrument :

MSVOA_N

ClientSampleId :

T11-D2-(0)

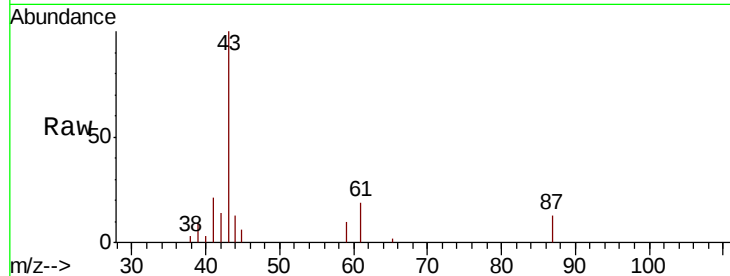
Tgt Ion: 43 Resp: 19864

Ion Ratio Lower Upper

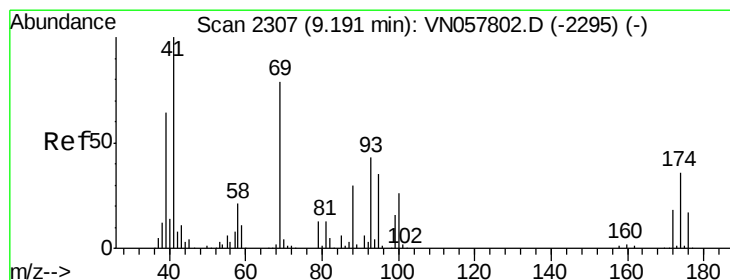
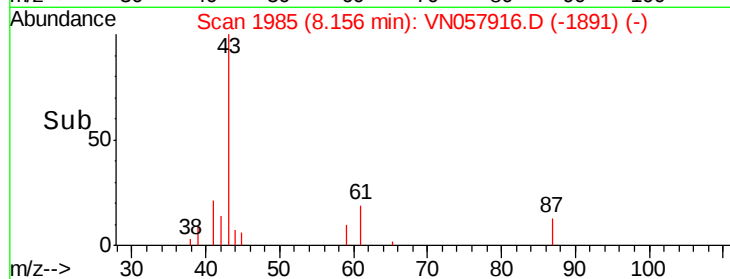
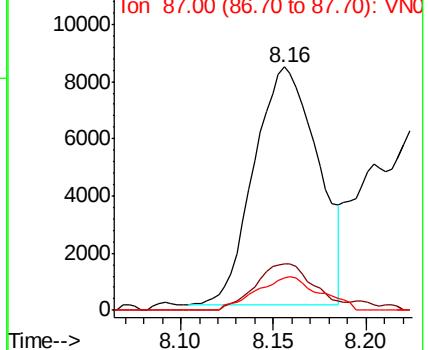
43 100

61 18.1 20.1 30.1#

87 14.1 9.5 14.3



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



#48

Methyl methacrylate

Concen: 0.809 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.01 min

Lab File: VN057916.D

Acq: 11 Sep 2019 11:45

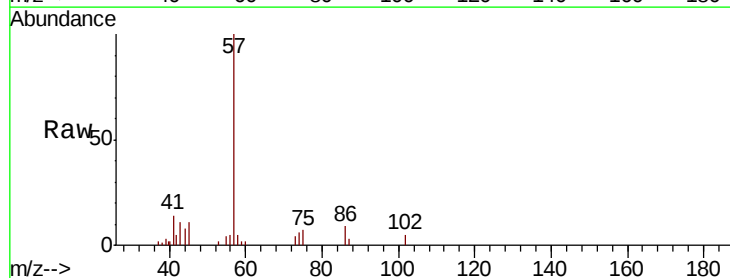
Tgt Ion: 41 Resp: 4130

Ion Ratio Lower Upper

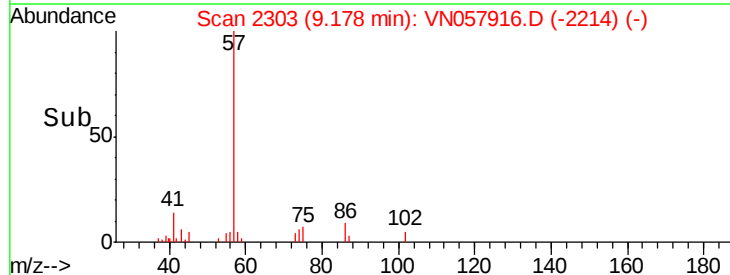
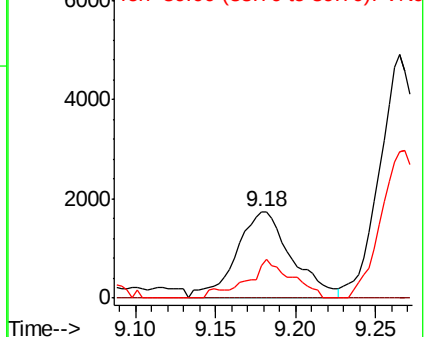
41 100

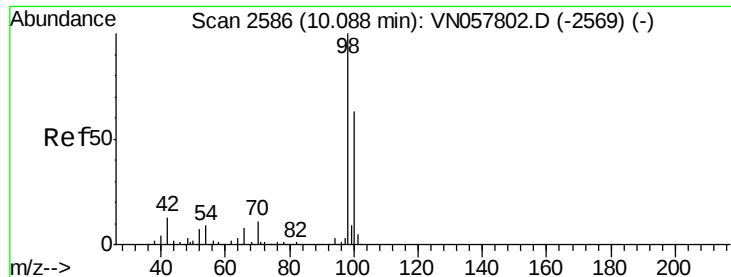
69 0.0 62.7 94.1#

39 32.8 52.7 79.1#



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

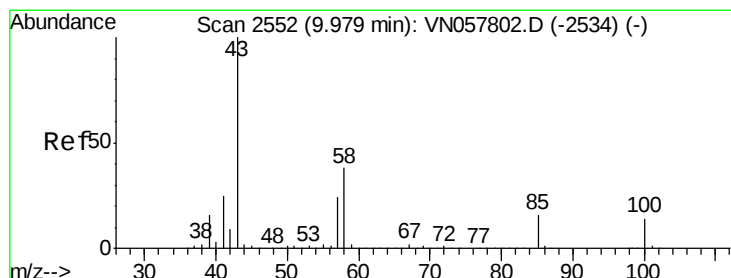
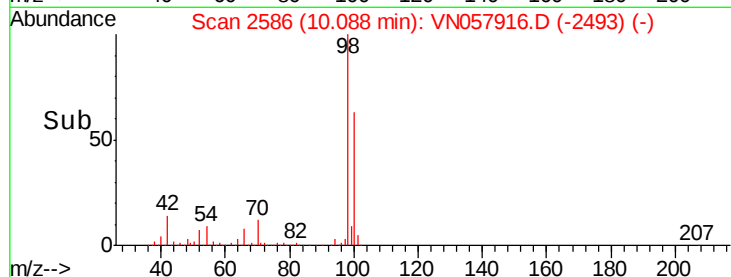
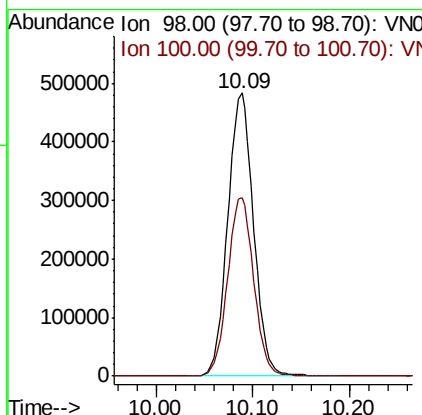
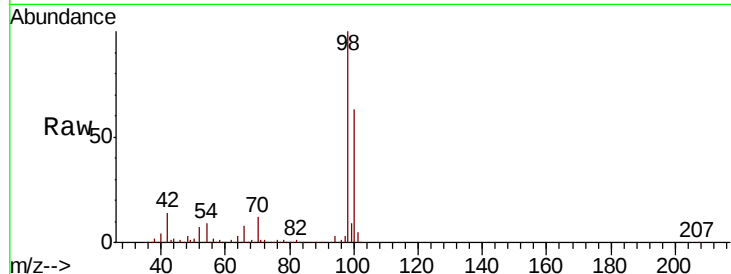




#50
Toluene-d8
Concen: 50.064 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057916.D
Acq: 11 Sep 2019 11:45

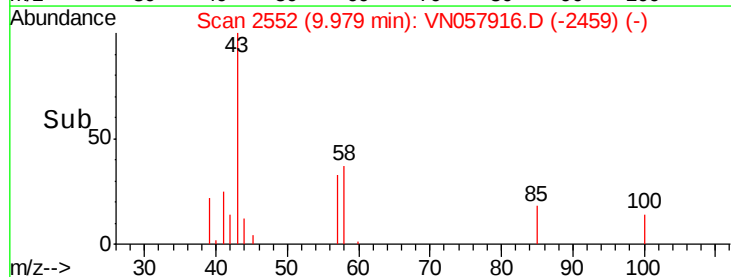
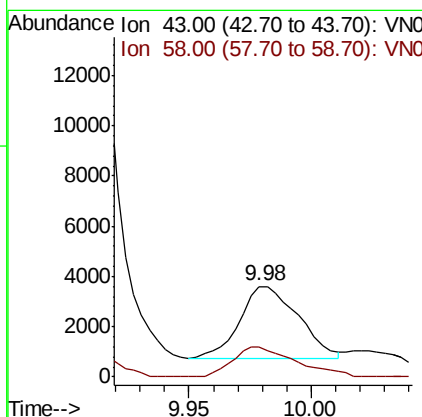
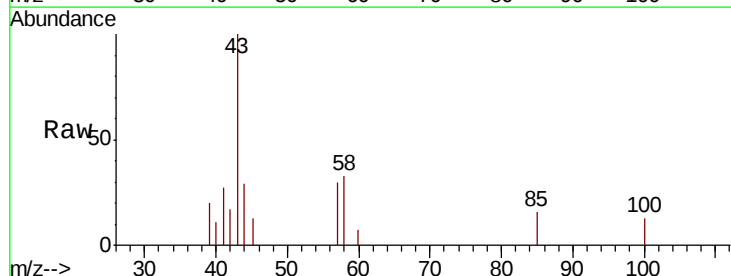
Instrument :
MSVOA_N
ClientSampled :
T11-D2-(0)

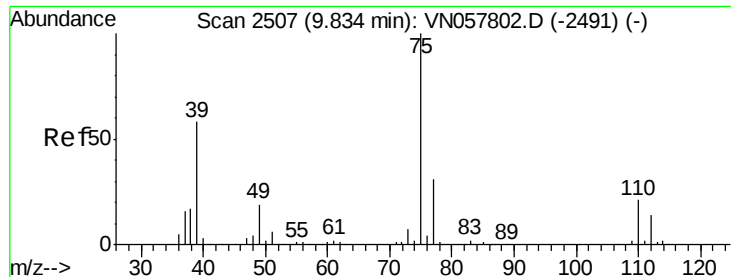
Tgt Ion: 98 Resp: 896169
Ion Ratio Lower Upper
98 100
100 63.7 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 0.797 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. 0.00 min
Lab File: VN057916.D
Acq: 11 Sep 2019 11:45

Tgt Ion: 43 Resp: 4745
Ion Ratio Lower Upper
43 100
58 45.2 29.8 44.6#





#54

cis-1,3-Dichloropropene

Concen: 3.070 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057916.D

Acq: 11 Sep 2019 11:45

Instrument :

MSVOA_N

ClientSampleId :

T11-D2-(0)

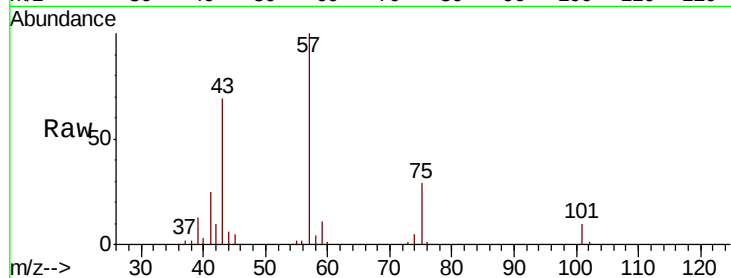
Tgt Ion: 75 Resp: 21858

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

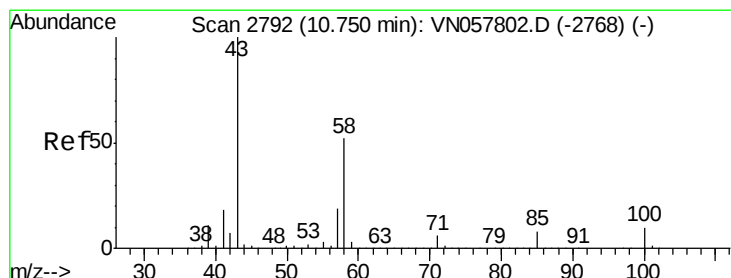
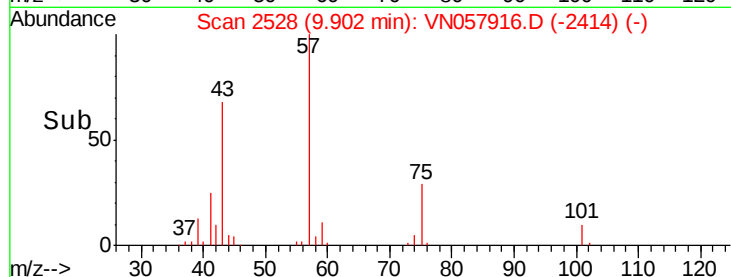
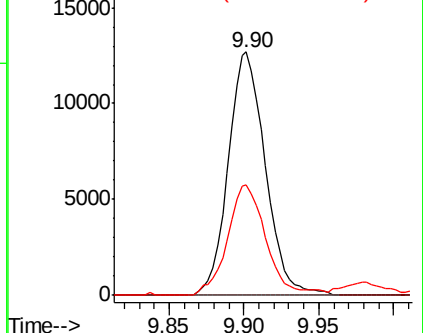
39 45.2 46.2 69.4#



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



#59

2-Hexanone

Concen: 4.240 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN057916.D

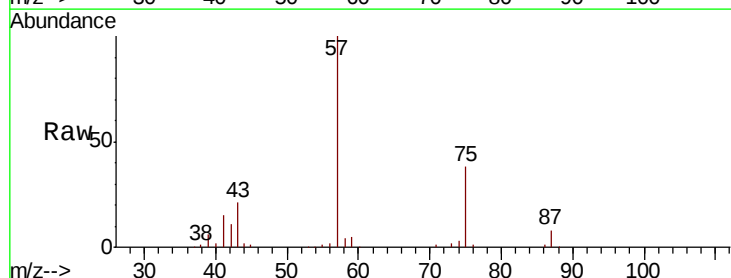
Acq: 11 Sep 2019 11:45

Tgt Ion: 43 Resp: 18932

Ion Ratio Lower Upper

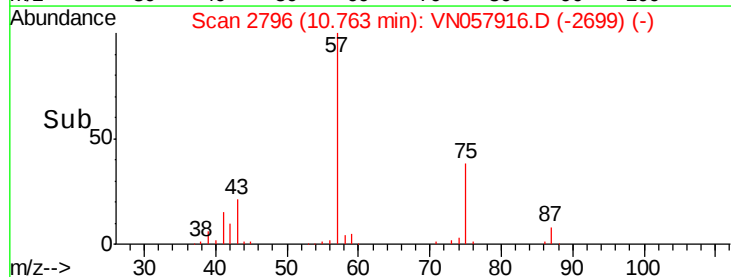
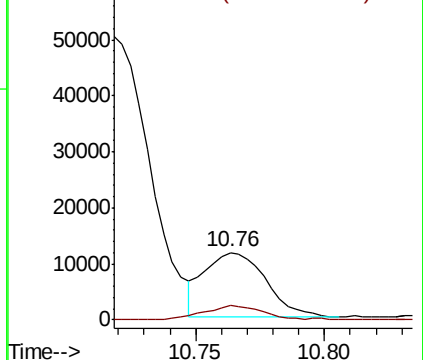
43 100

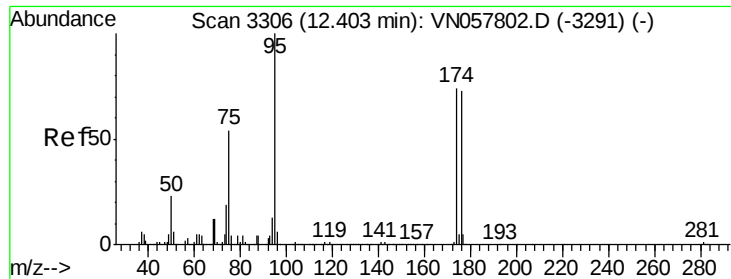
58 22.0 25.6 76.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

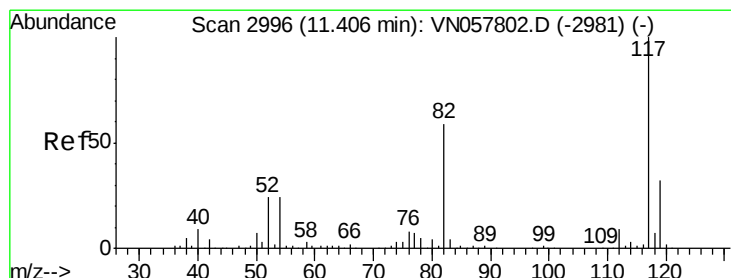
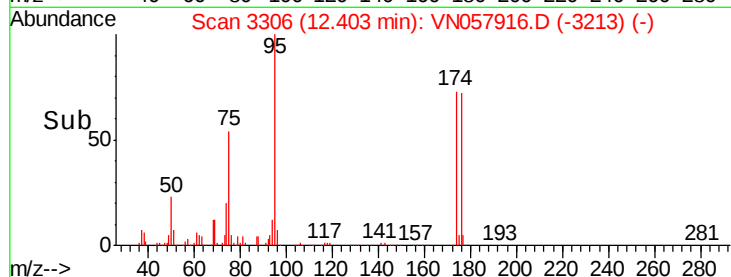
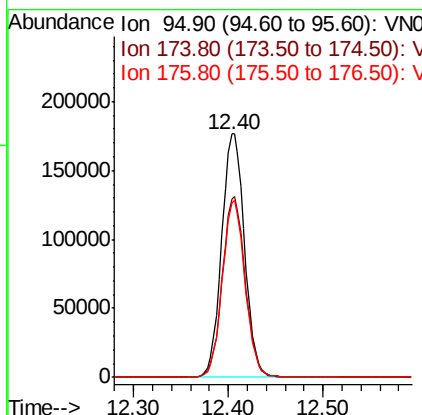
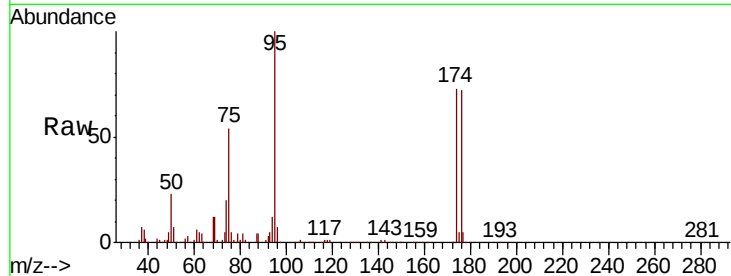




#62
4-Bromofluorobenzene
Concen: 43.584 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057916.D
Acq: 11 Sep 2019 11:45

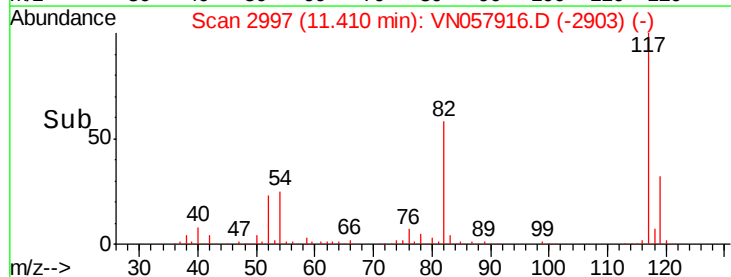
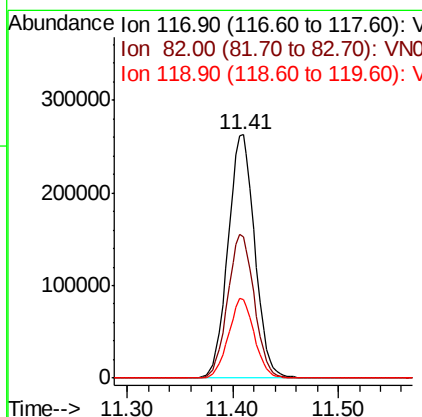
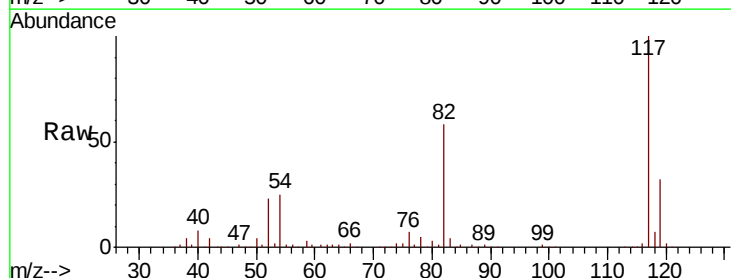
Instrument :
MSVOA_N
ClientSampleId :
T11-D2-(0)

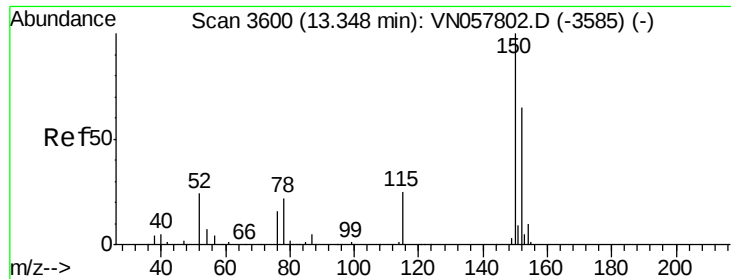
Tgt Ion: 95 Resp: 297314
Ion Ratio Lower Upper
95 100
174 73.9 0.0 150.2
176 71.8 0.0 146.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN057916.D
Acq: 11 Sep 2019 11:45

Tgt Ion: 117 Resp: 459446
Ion Ratio Lower Upper
117 100
82 58.2 47.2 70.8
119 32.5 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057916.D

Acq: 11 Sep 2019 11:45

Instrument :

MSVOA_N

ClientSampleId :

T11-D2-(0)

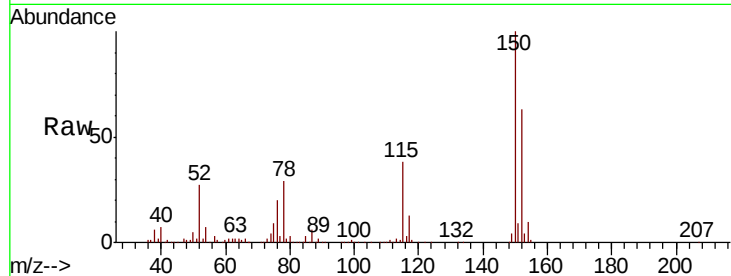
Tgt Ion: 152 Resp: 234295

Ion Ratio Lower Upper

152 100

115 59.6 30.3 91.0

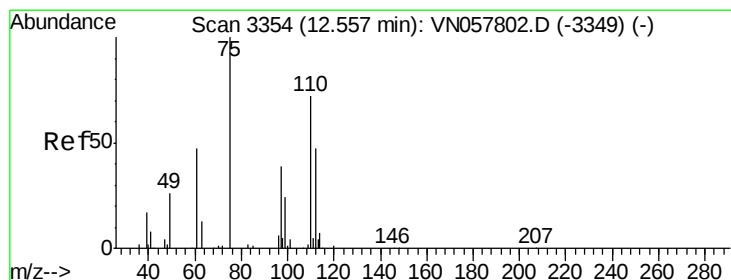
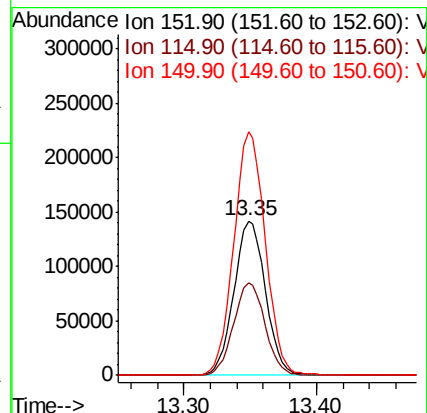
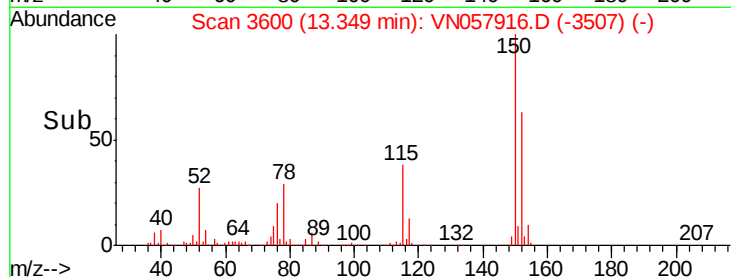
150 157.5 0.0 352.4



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



#76

1,2,3-Trichloropropane

Concen: 30.489 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN057916.D

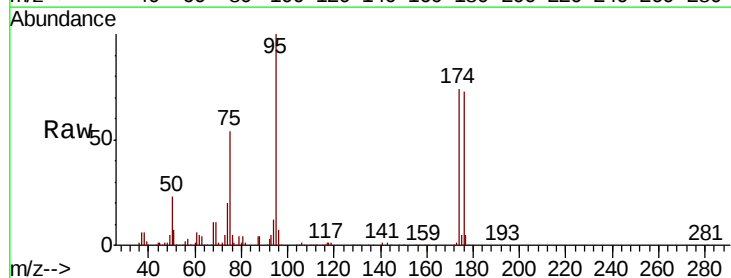
Acq: 11 Sep 2019 11:45

Tgt Ion: 75 Resp: 161598

Ion Ratio Lower Upper

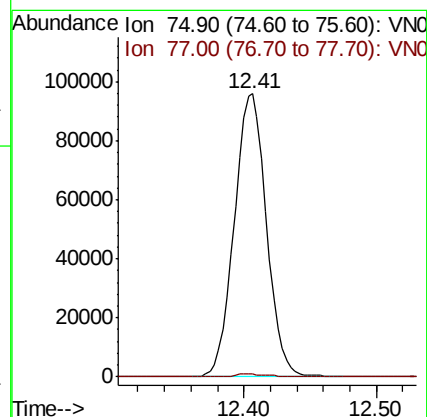
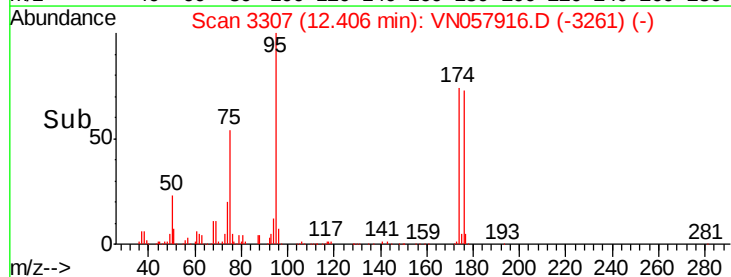
75 100

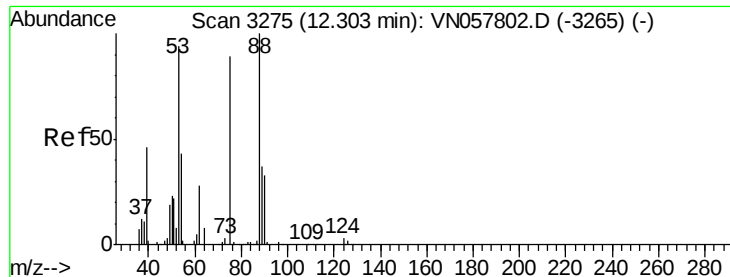
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 107.292 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN057916.D

Acq: 11 Sep 2019 11:45

Instrument :

MSVOA_N

ClientSampleId :

T11-D2-(0)

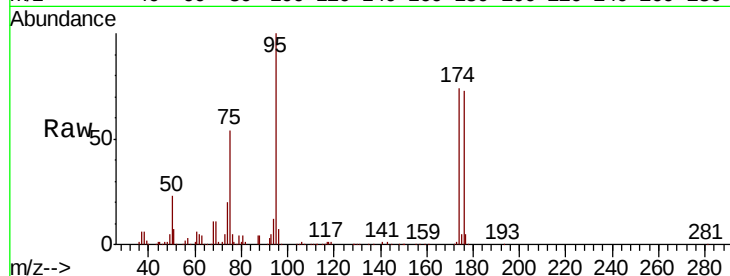
Tgt Ion: 75 Resp: 161598

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

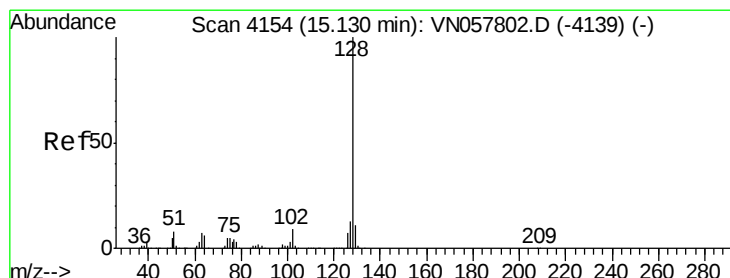
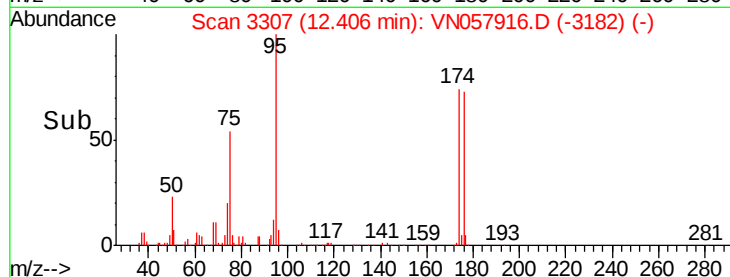
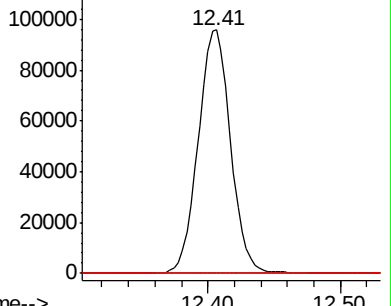
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN057916.D (-3307) (-)

Ion 53.00 (52.70 to 53.70): VN057916.D (-3307) (-)

Ion 88.90 (88.60 to 89.60): VN057916.D (-3307) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN057916.D

Acq: 11 Sep 2019 11:45

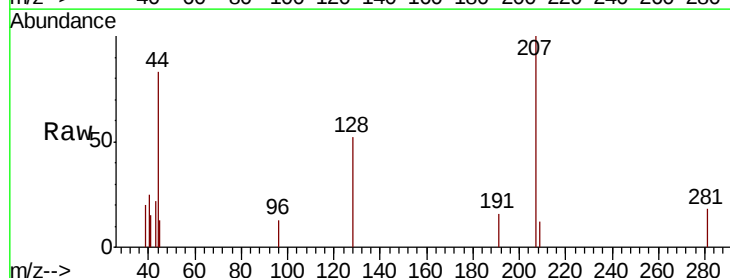
Tgt Ion: 128 Resp: 1179

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): VN057916.D (-4156) (-)

Ion 127.00 (126.70 to 127.70): VN057916.D (-4156) (-)

Ion 129.00 (128.70 to 129.70): VN057916.D (-4156) (-)

