

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102919\
 Data File : VN059012.D
 Acq On : 29 Oct 2019 15:45
 Operator : JC/SP
 Sample : K5576-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 30 03:58:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	370294	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	587260	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	539144	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	195125	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	262689	48.37	ug/l	0.00
Spiked Amount						
			Recovery	=	96.74%	
35) Dibromofluoromethane	7.57	113	190017	49.21	ug/l	0.00
Spiked Amount						
			Recovery	=	98.42%	
50) Toluene-d8	10.08	98	756999	50.51	ug/l	0.00
Spiked Amount						
			Recovery	=	101.02%	
62) 4-Bromofluorobenzene	12.40	95	236300	42.93	ug/l	0.00
Spiked Amount						
			Recovery	=	85.86%	

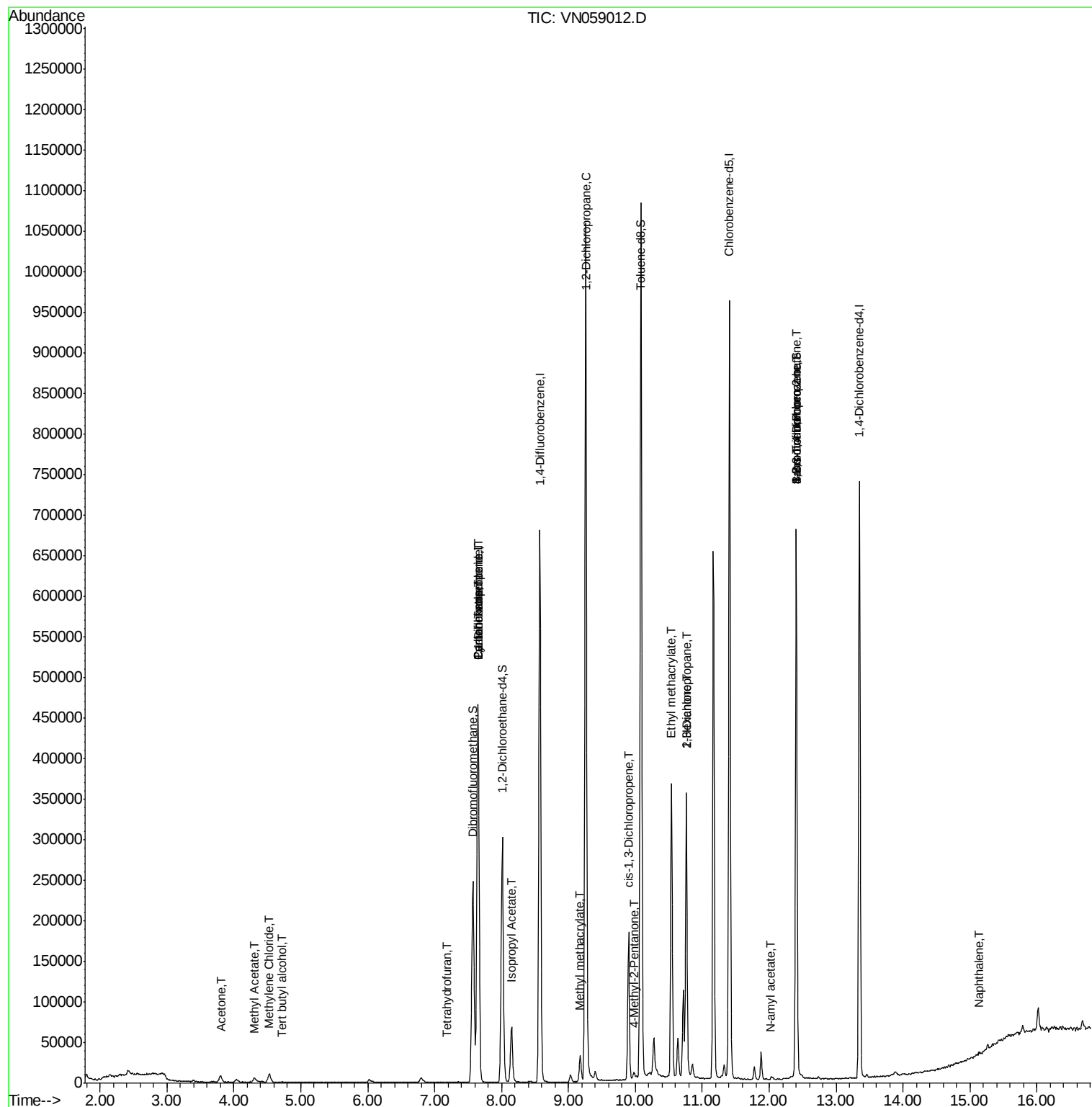
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.71	59	313	0.347	ug/l #	72
16) Acetone	3.80	43	14265	5.316	ug/l	99
18) Methyl Acetate	4.30	43	9799	1.606	ug/l #	72
20) Methylene Chloride	4.53	84	7510	1.639	ug/l	95
29) Tetrahydrofuran	7.19	42	469	0.220	ug/l #	36
31) Cyclohexane	7.64	56	8677	1.112	ug/l #	16
36) 1,1-Dichloropropene	7.65	75	30101	5.007	ug/l #	46
38) Carbon Tetrachloride	7.64	117	36398	5.876	ug/l #	16
43) Isopropyl Acetate	8.15	43	82186	7.822	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1115	0.230	ug/l #	44
48) Methyl methacrylate	9.17	41	5280	1.108	ug/l #	14
51) 4-Methyl-2-Pentanone	9.98	43	6197	1.010	ug/l	99
54) cis-1,3-Dichloropropene	9.90	75	30828	4.132	ug/l #	63
56) Ethyl methacrylate	10.54	69	1699	2.322	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3525	0.466	ug/l #	43
59) 2-Hexanone	10.76	43	53133	11.204	ug/l #	56
71) Bromoform	12.41	173	1385	0.431	ug/l #	1
74) N-amyl acetate	12.03	43	3525	0.545	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	121270	26.816	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	121270	69.859	ug/l #	10
95) Naphthalene	15.13	128	761	2.290	ug/l #	70

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

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QLast Update : Sat Oct 19 00:16:20 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059012.D

Acq: 29 Oct 2019 15:45

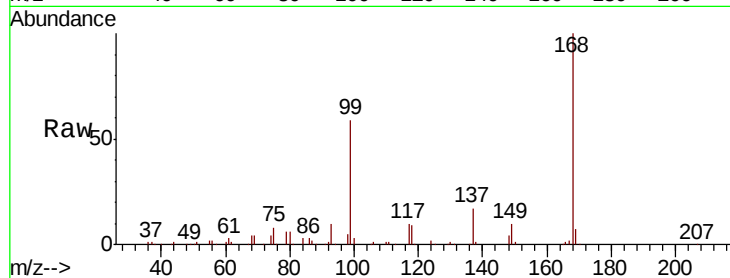
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 370294

Ion Ratio Lower Upper

168 100

99 58.6 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

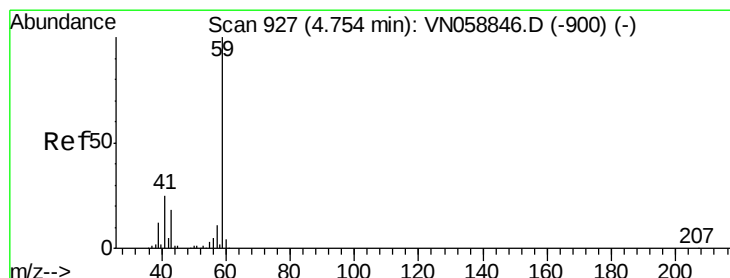
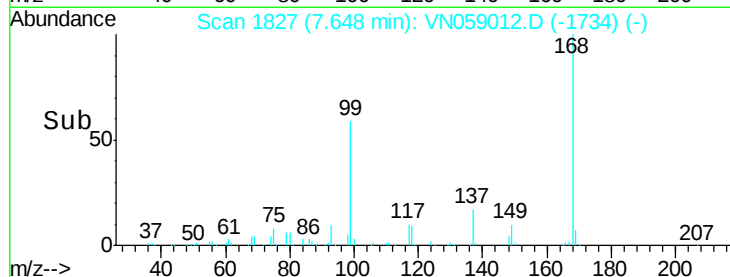
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.347 ug/l

RT: 4.71 min Scan# 913

Delta R.T. -0.04 min

Lab File: VN059012.D

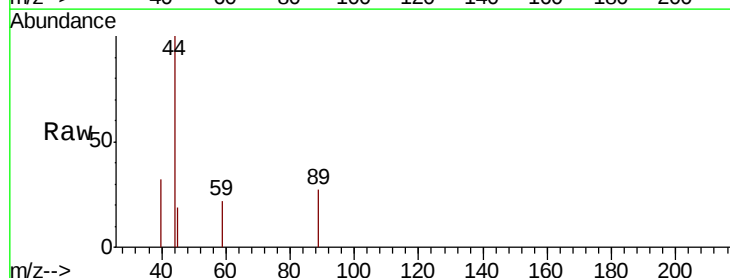
Acq: 29 Oct 2019 15:45

Tgt Ion: 59 Resp: 313

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.71

200

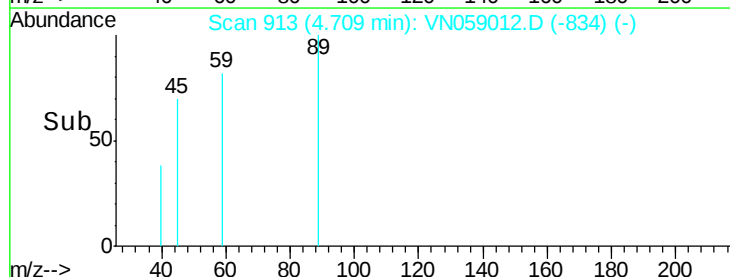
150

100

50

0

Time-->





#16

Acetone

Concen: 5.316 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN059012.D

Acq: 29 Oct 2019 15:45

Instrument :

MSVOA_N

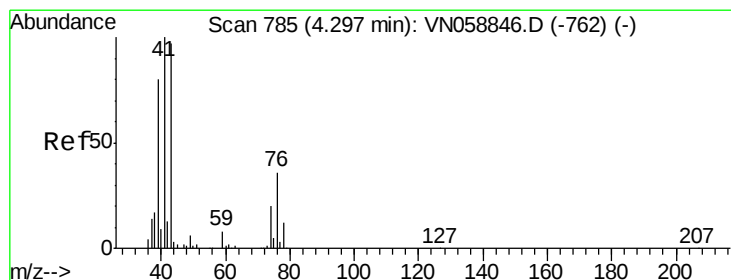
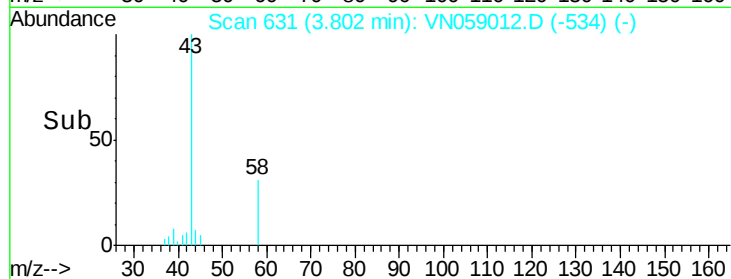
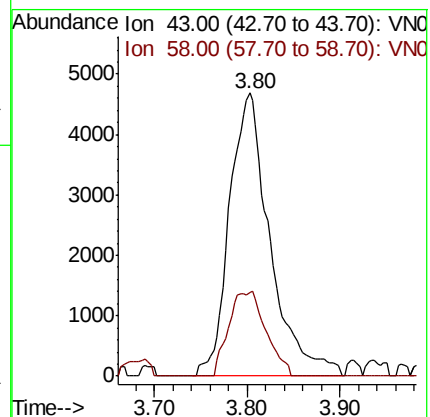
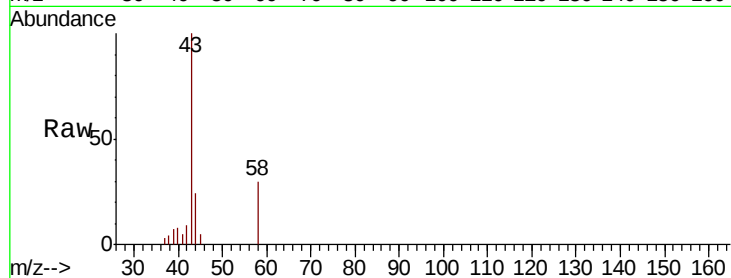
ClientSampled :

Tot Ion: 43 Resp: 14265

Ion Ratio Lower Upper

43 100

58 29.7 23.1 34.7



#18

Methyl Acetate

Concen: 1.606 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.01 min

Lab File: VN059012.D

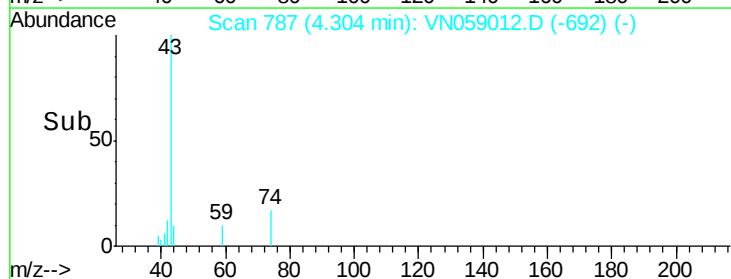
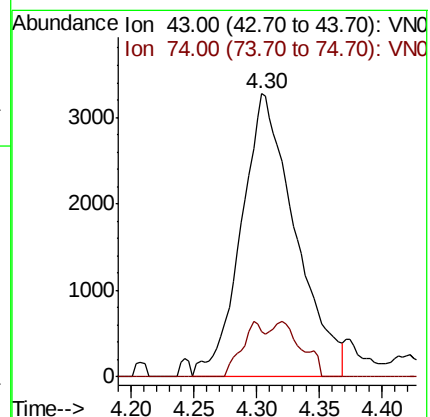
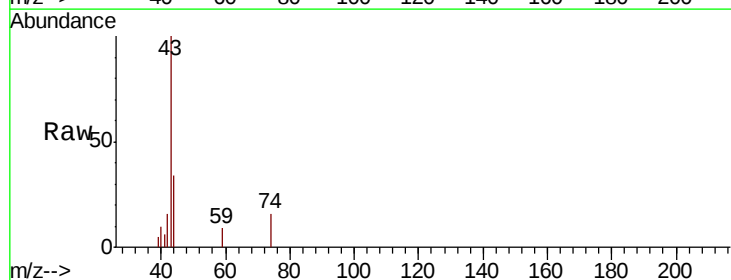
Acq: 29 Oct 2019 15:45

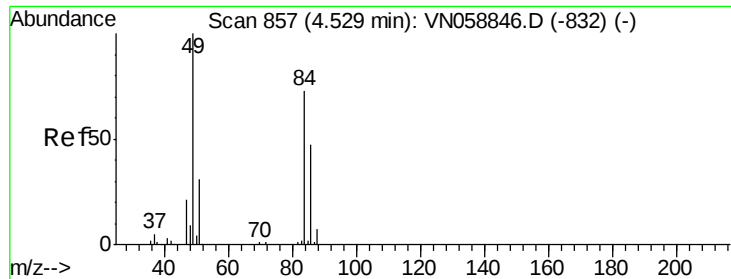
Tgt Ion: 43 Resp: 9799

Ion Ratio Lower Upper

43 100

74 8.1 17.1 25.7#





#20

Methvlene Chloride

Concen: 1.639 ug/l

RT: 4.53 min Scan# 857

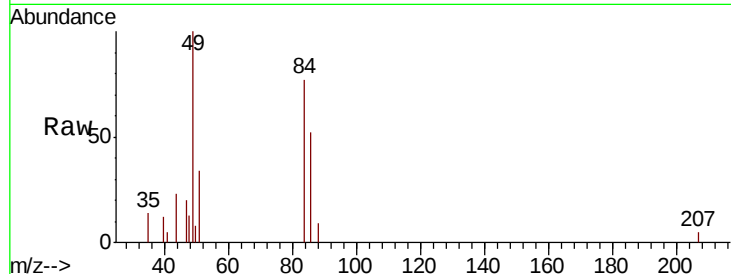
Delta R.T. 0.00 min

Lab File: VN059012.D

Acq: 29 Oct 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	84	Resp:	7510
Ion	Ratio	Lower	Upper
84	100		
49	129.2	109.6	164.4
51	43.9	33.8	50.6
86	66.8	51.5	77.3

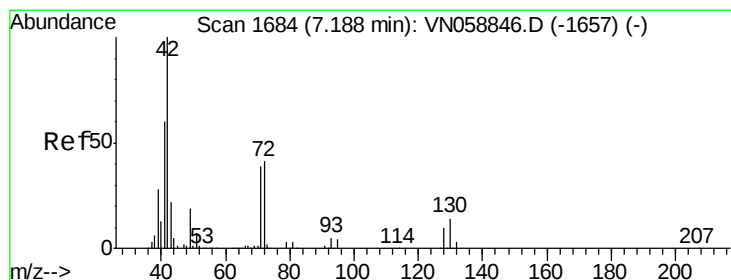
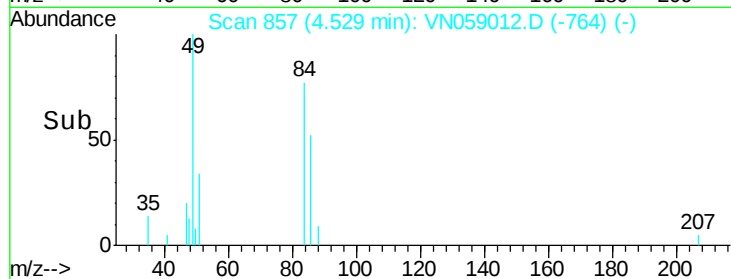
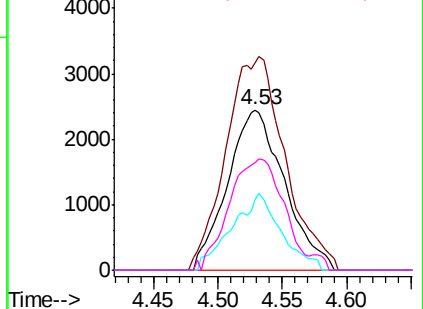


Abundance Ion 83.90 (83.60 to 84.60): VN058846.D (-832) (-)

Ion 48.90 (48.60 to 49.60): VN058846.D (-832) (-)

Ion 50.90 (50.60 to 51.60): VN058846.D (-832) (-)

Ion 85.90 (85.60 to 86.60): VN058846.D (-832) (-)



#29

Tetrahydrofuran

Concen: 0.220 ug/l

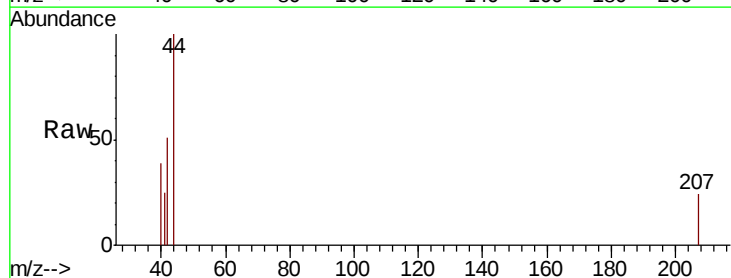
RT: 7.19 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VN059012.D

Acq: 29 Oct 2019 15:45

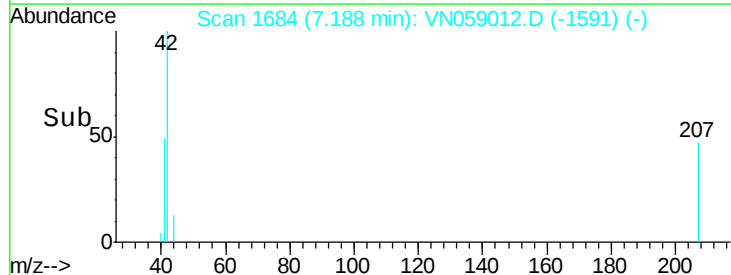
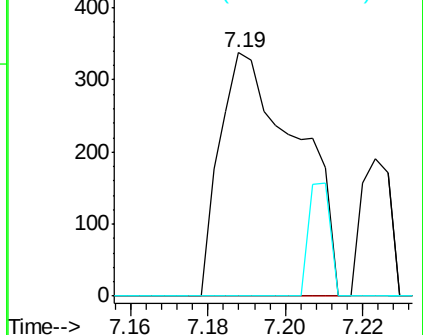
Tgt Ion:	42	Resp:	469
Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.2	48.2#
71	0.0	30.6	45.8#

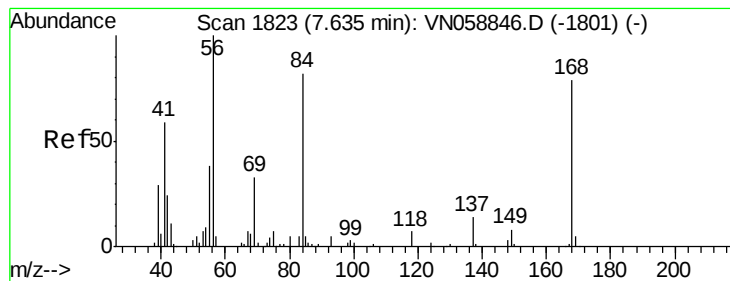


Abundance Ion 42.00 (41.70 to 42.70): VN058846.D (-1657) (-)

Ion 72.00 (71.70 to 72.70): VN058846.D (-1657) (-)

Ion 71.00 (70.70 to 71.70): VN058846.D (-1657) (-)





#31

Cyclohexane

Concen: 1.112 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN059012.D

Acq: 29 Oct 2019 15:45

Instrument :
MSVOA_N
ClientSampled :

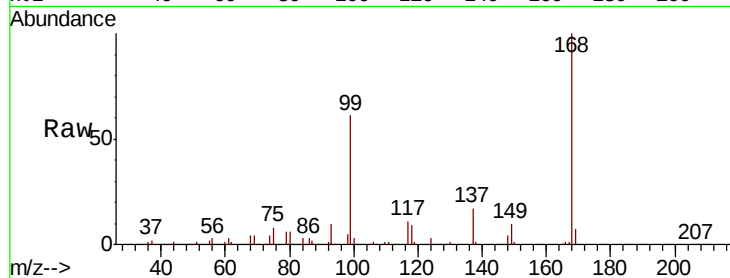
Tot Ion: 56 Resp: 8677

Ion Ratio Lower Upper

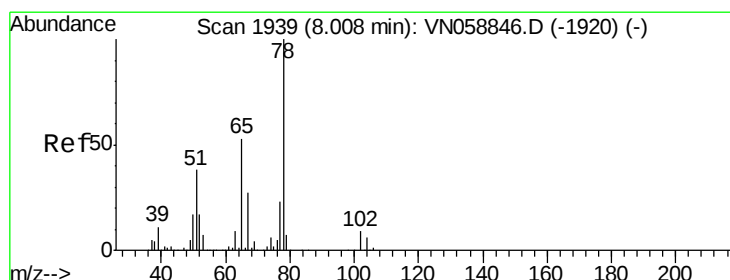
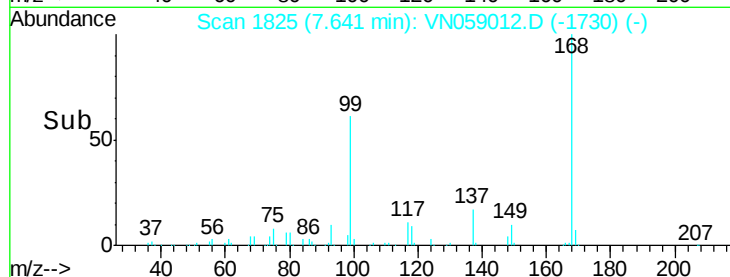
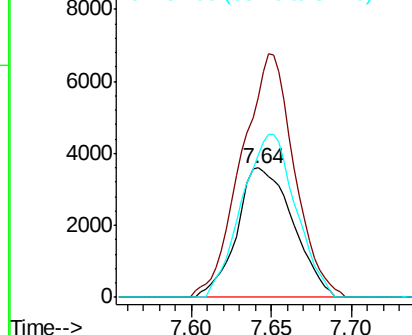
56 100

69 155.0 26.2 39.4#

84 109.8 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: 48.369 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN059012.D

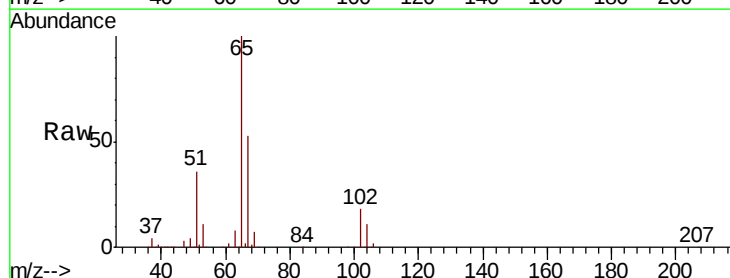
Acq: 29 Oct 2019 15:45

Tgt Ion: 65 Resp: 262689

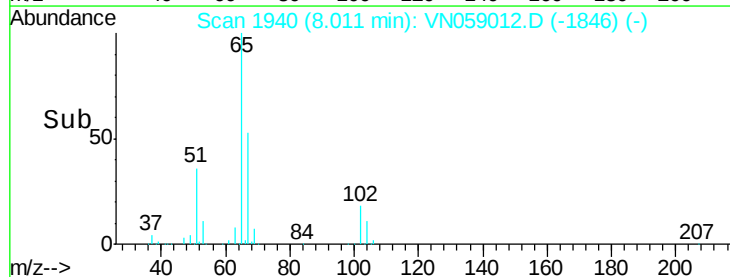
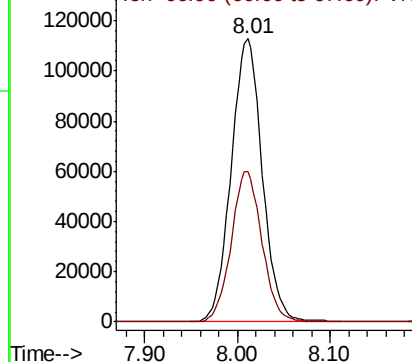
Ion Ratio Lower Upper

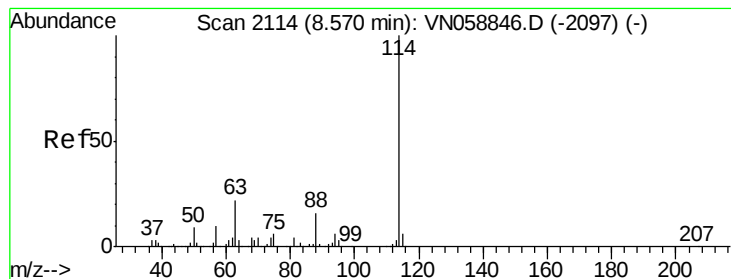
65 100

67 52.2 0.0 103.2



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: VN059012.D

Acq: 29 Oct 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :

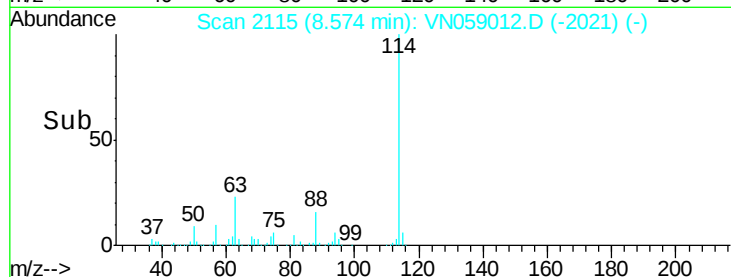
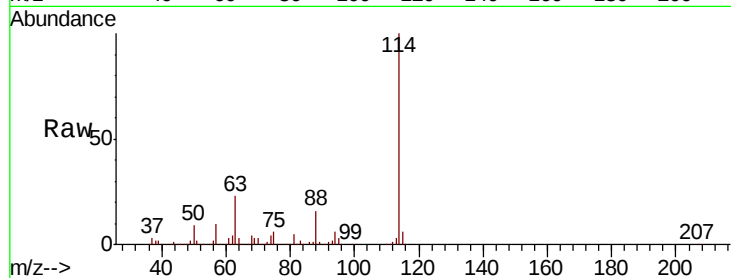
Tot Ion:114 Resp: 587260

Ion Ratio Lower Upper

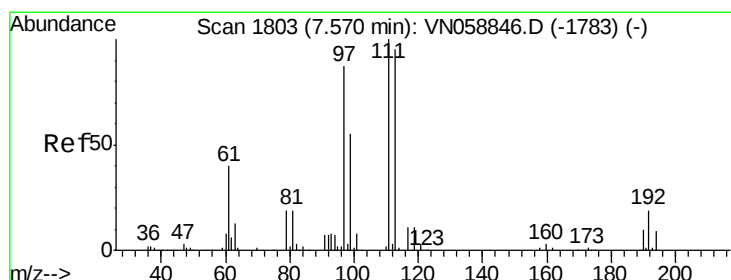
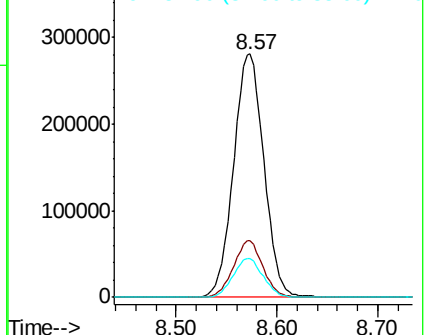
114 100

63 23.1 0.0 44.4

88 15.8 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: 49.213 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN059012.D

Acq: 29 Oct 2019 15:45

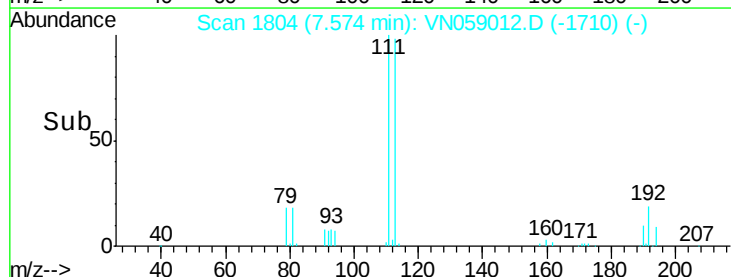
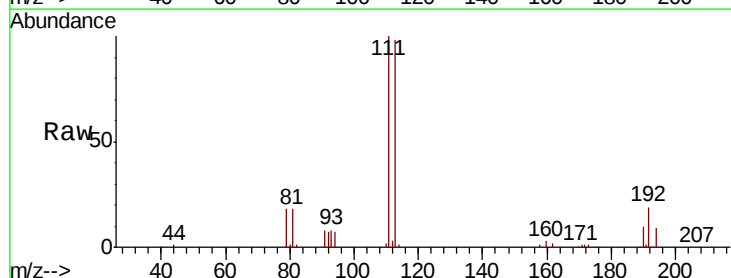
Tgt Ion:113 Resp: 190017

Ion Ratio Lower Upper

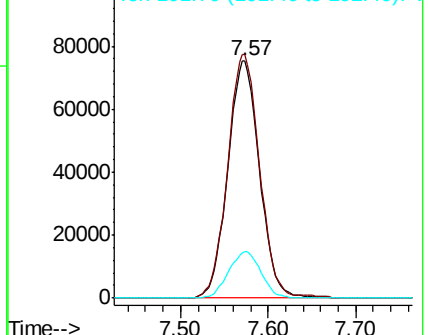
113 100

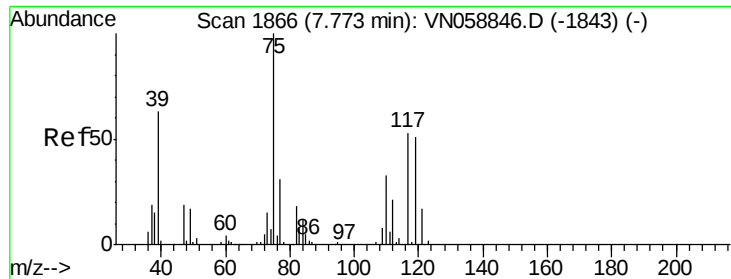
111 103.3 82.0 123.0

192 19.9 15.0 22.6



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

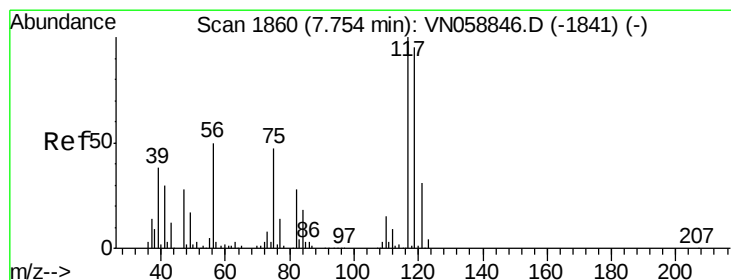
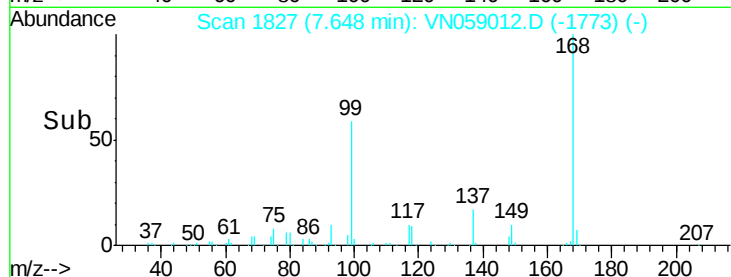
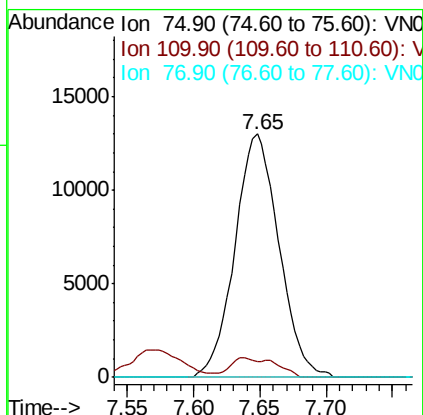
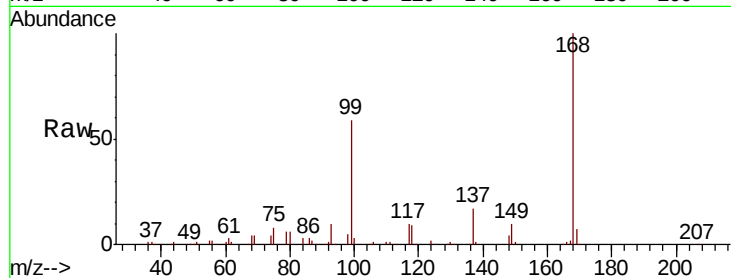




#36
 1,1-Dichloropropene
 Concen: 5.007 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN059012.D
 Acq: 29 Oct 2019 15:45

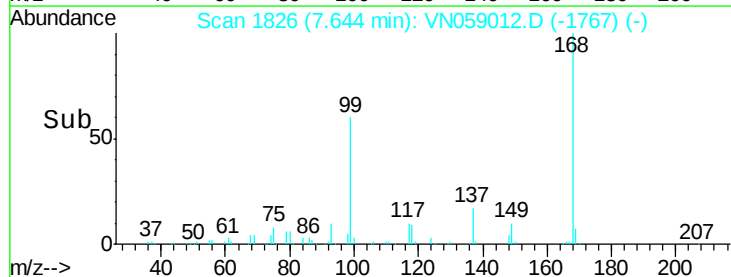
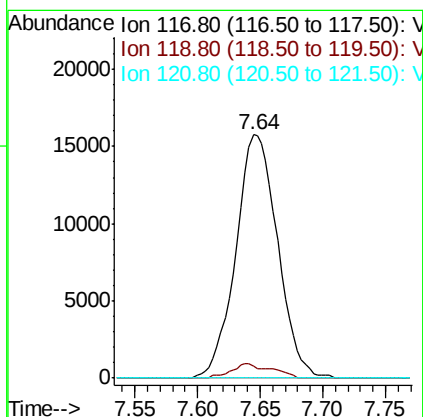
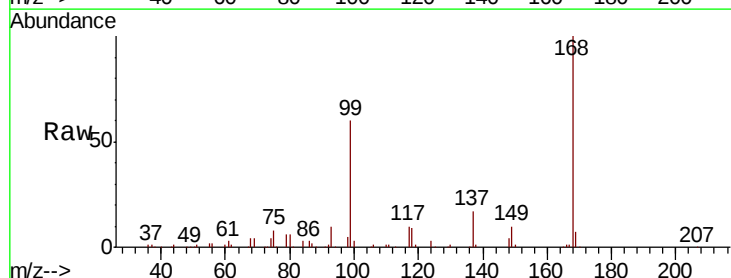
Instrument :
 MSVOA_N
 ClientSampled :

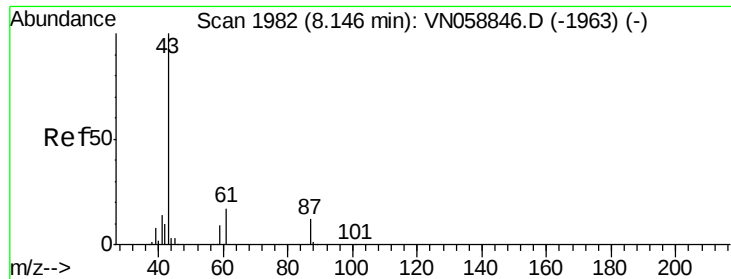
Tot Ion	Ratio	Lower	Upper
75	100		
110	3.5	16.3	48.9#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.876 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN059012.D
 Acq: 29 Oct 2019 15:45

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.9	75.7	113.5#
121	0.0	25.0	37.6#





#43

Isopropyl Acetate

Concen: 7.822 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN059012.D

Acq: 29 Oct 2019 15:45

Instrument :

MSVOA_N

ClientSampleId :

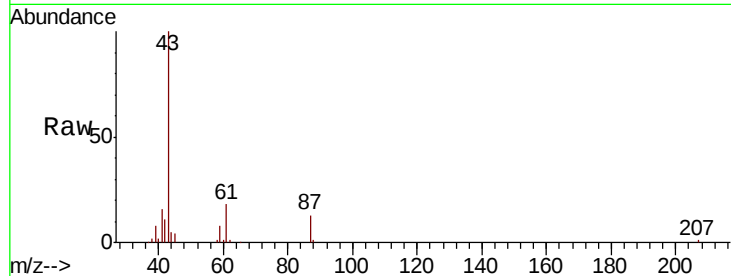
Tot Ion: 43 Resp: 82186

Ion Ratio Lower Upper

43 100

61 18.5 20.2 30.2#

87 11.4 9.5 14.3

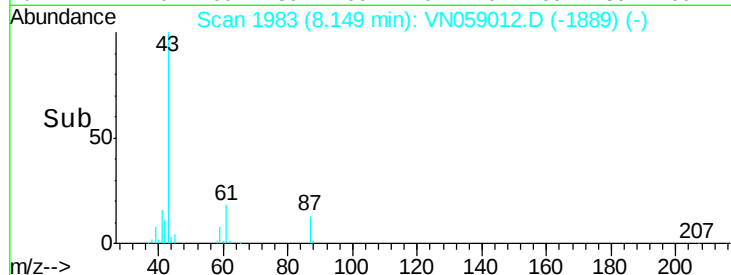


Abundance Ion 43.00 (42.70 to 43.70): VN058846.D (-1963) (-)

Ion 61.00 (60.70 to 61.70): VN058846.D (-1963) (-)

Ion 87.00 (86.70 to 87.70): VN058846.D (-1963) (-)

Time-->

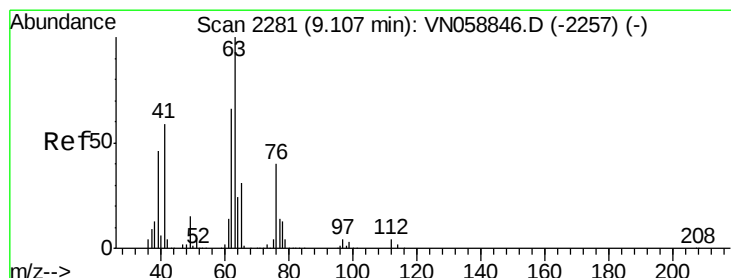


Abundance Ion 43.00 (42.70 to 43.70): VN059012.D (-1889) (-)

Ion 61.00 (60.70 to 61.70): VN059012.D (-1889) (-)

Ion 87.00 (86.70 to 87.70): VN059012.D (-1889) (-)

Time-->



#45

1,2-Dichloropropane

Concen: 0.230 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.14 min

Lab File: VN059012.D

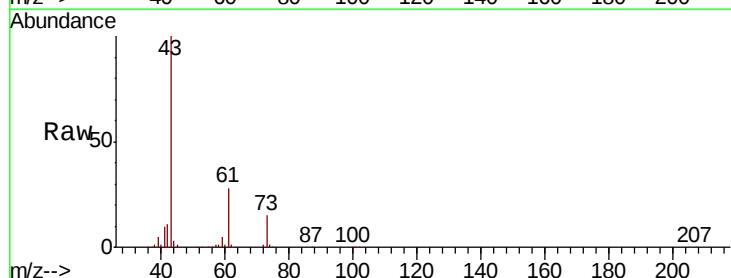
Acq: 29 Oct 2019 15:45

Tgt Ion: 63 Resp: 1115

Ion Ratio Lower Upper

63 100

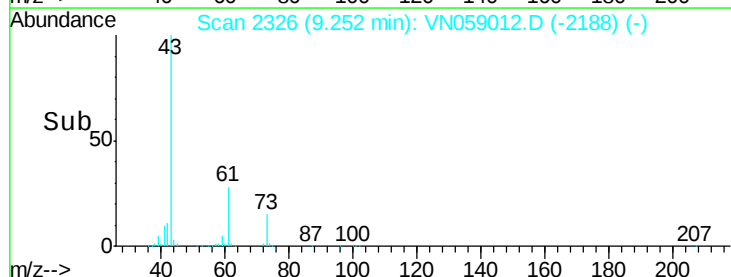
65 0.0 24.5 36.7#



Abundance Ion 62.90 (62.60 to 63.60): VN058846.D (-2257) (-)

Ion 64.90 (64.60 to 65.60): VN058846.D (-2257) (-)

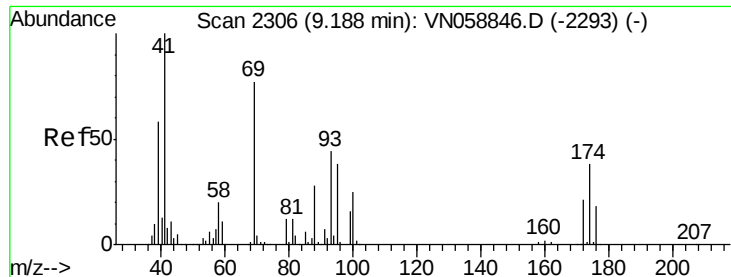
Time-->



Abundance Ion 62.90 (62.60 to 63.60): VN059012.D (-2188) (-)

Ion 64.90 (64.60 to 65.60): VN059012.D (-2188) (-)

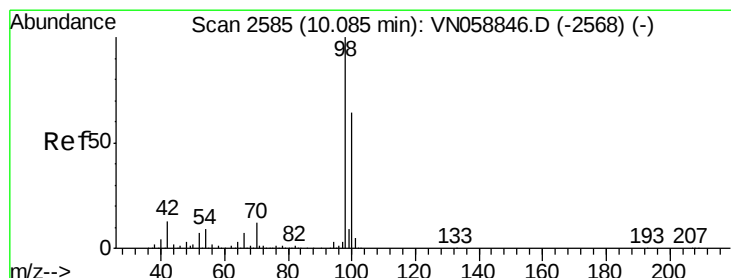
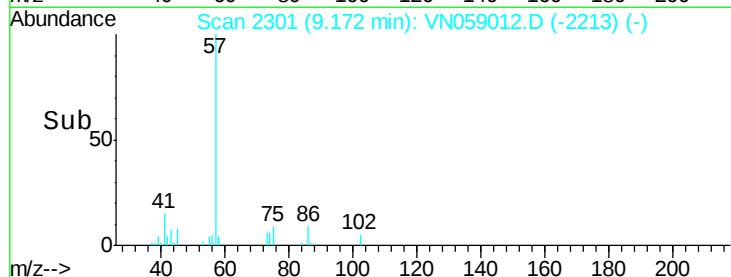
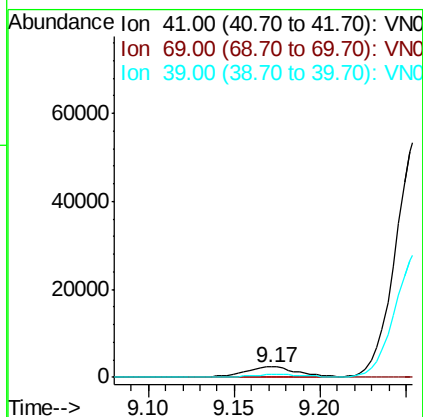
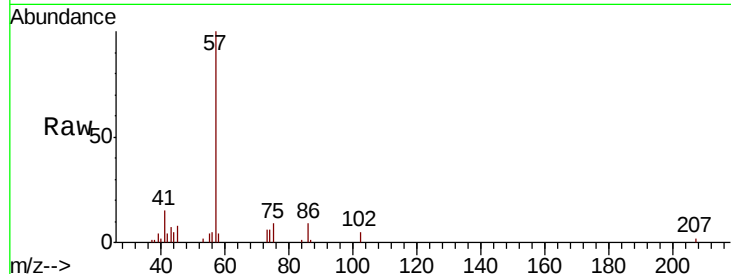
Time-->



#48
Methvl methacrylate
Concen: 1.108 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.02 min
Lab File: VN059012.D
Acq: 29 Oct 2019 15:45

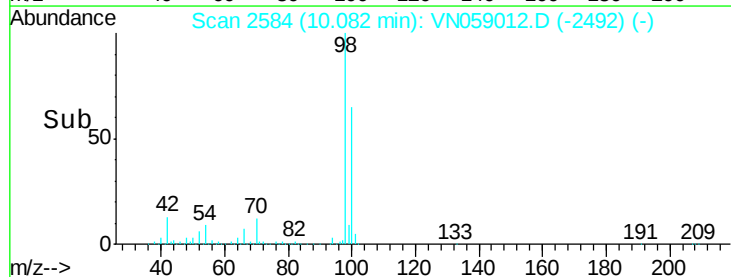
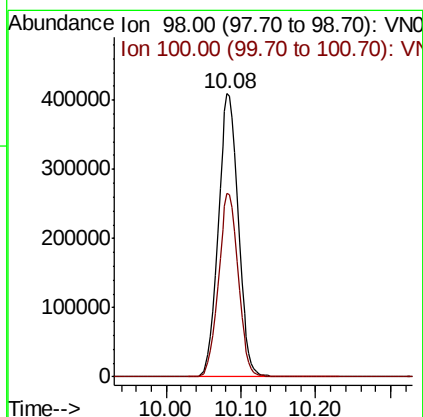
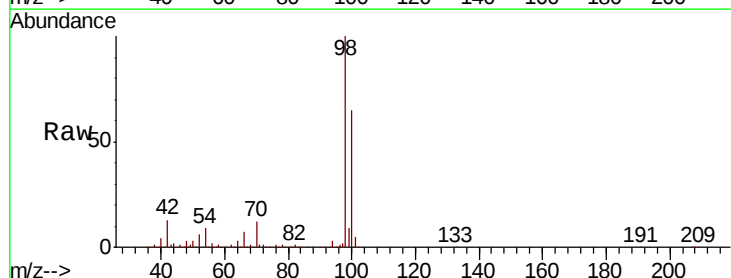
Instrument :
MSVOA_N
ClientSampleId :

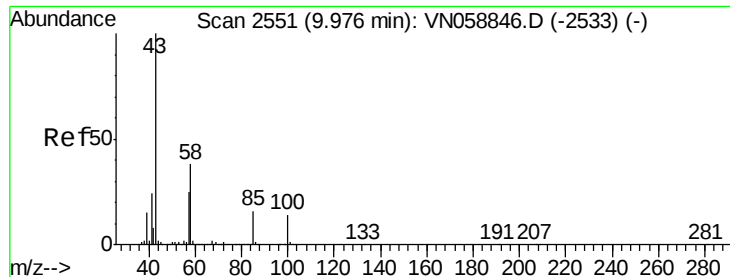
Tot Ion: 41 Resp: 5280
Ion Ratio Lower Upper
41 100
69 0.0 63.8 95.6#
39 0.0 47.8 71.8#



#50
Toluene-d8
Concen: 50.506 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. -0.00 min
Lab File: VN059012.D
Acq: 29 Oct 2019 15:45

Tgt Ion: 98 Resp: 756999
Ion Ratio Lower Upper
98 100
100 63.8 51.4 77.2

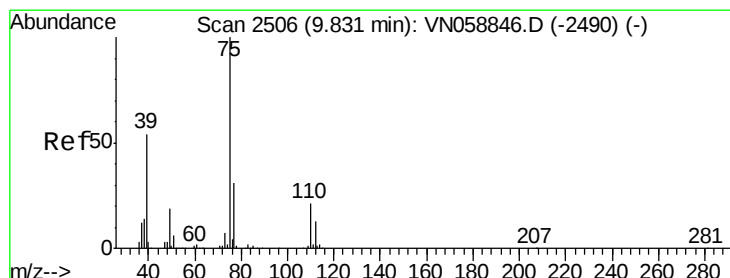
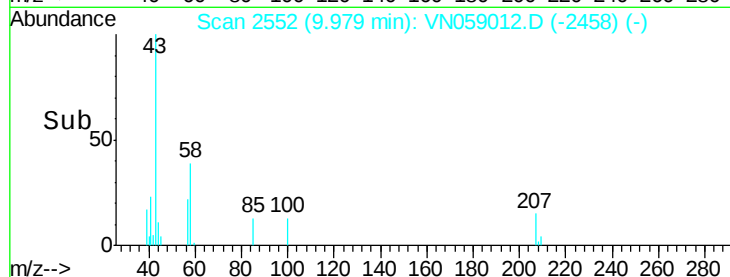
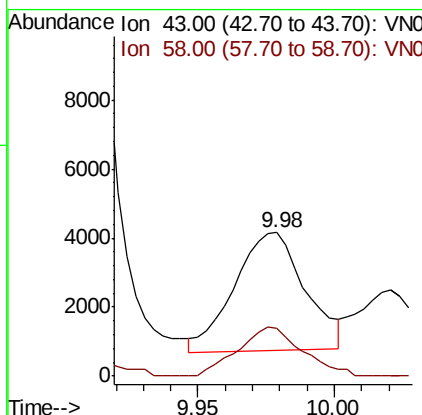
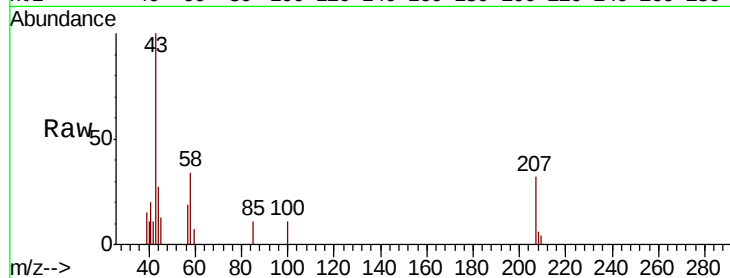




#51
 4-Methyl-2-Pentanone
 Concen: 1.010 ug/l
 RT: 9.98 min Scan# 2552
 Delta R.T. 0.00 min
 Lab File: VN059012.D
 Acq: 29 Oct 2019 15:45

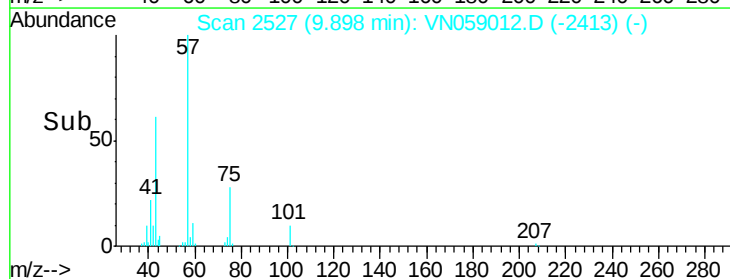
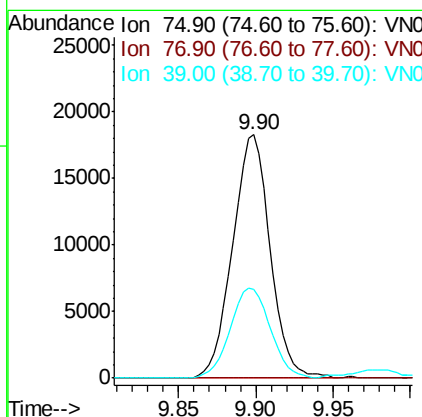
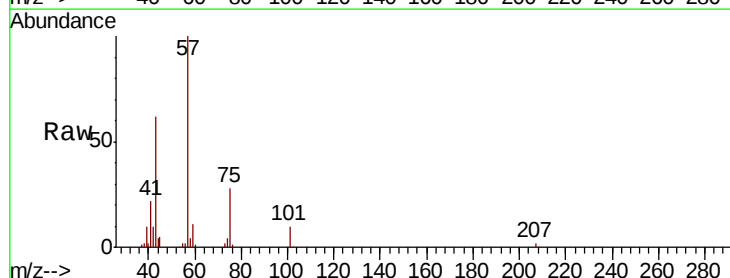
Instrument :
 MSVOA_N
 ClientSampled :

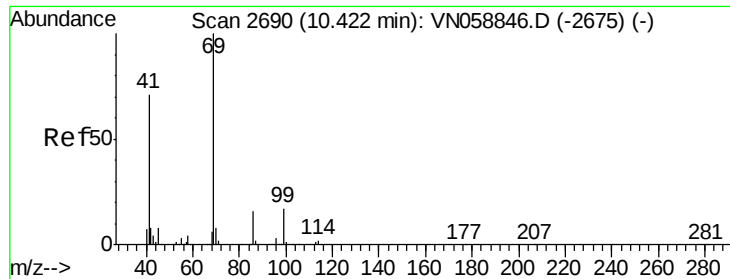
Tot Ion: 43 Resp: 6197
 Ion Ratio Lower Upper
 43 100
 58 37.9 29.9 44.9



#54
 cis-1,3-Dichloropropene
 Concen: 4.132 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.07 min
 Lab File: VN059012.D
 Acq: 29 Oct 2019 15:45

Tgt Ion: 75 Resp: 30828
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.7 37.1#
 39 36.2 43.5 65.3#





#56

Ethyl methacrylate

Concen: 2.322 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN059012.D

Acq: 29 Oct 2019 15:45

Instrument :

MSVOA_N

ClientSampled :

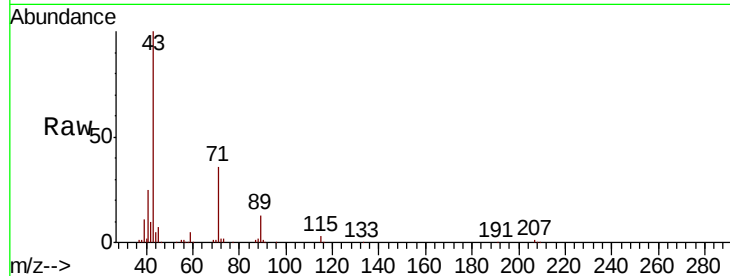
Tot Ion: 69 Resp: 1699

Ion Ratio Lower Upper

69 100

41 4131.1 57.2 85.8#

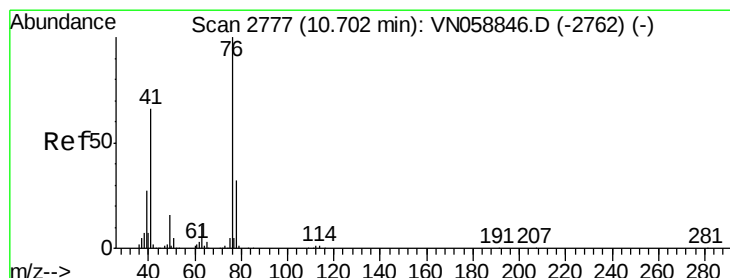
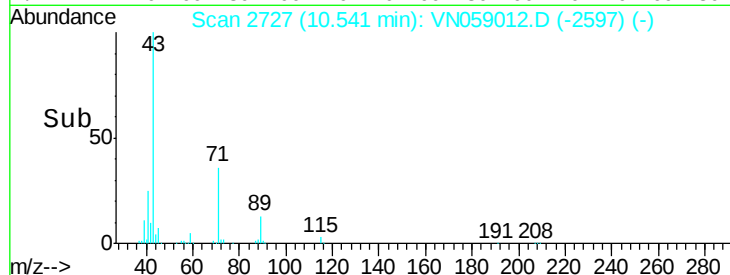
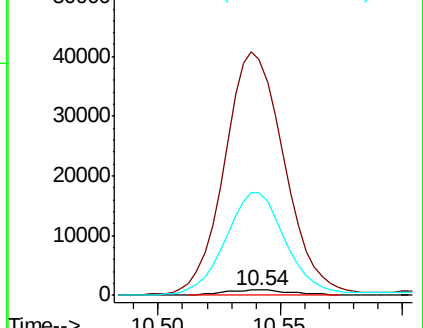
39 1761.2 31.0 46.4#



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: 0.466 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN059012.D

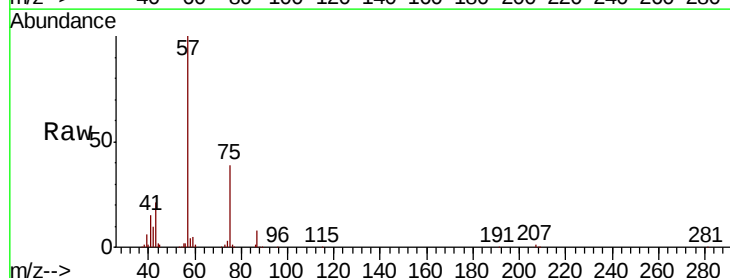
Acq: 29 Oct 2019 15:45

Tgt Ion: 76 Resp: 3525

Ion Ratio Lower Upper

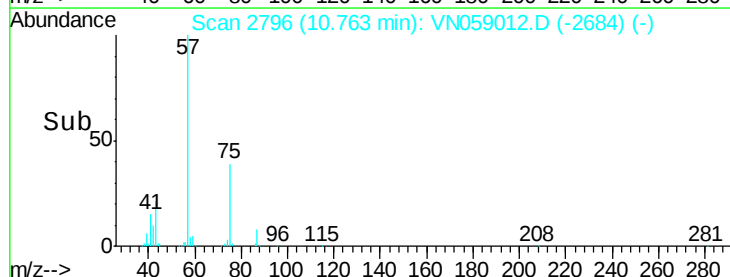
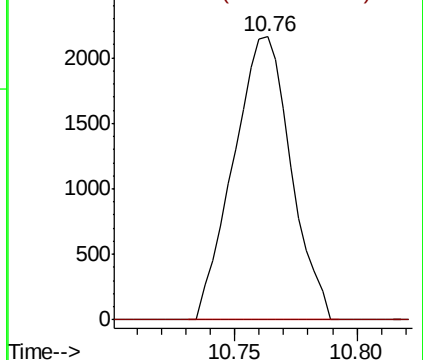
76 100

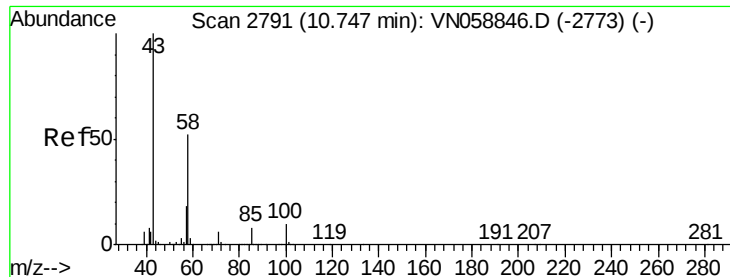
78 0.0 25.4 38.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

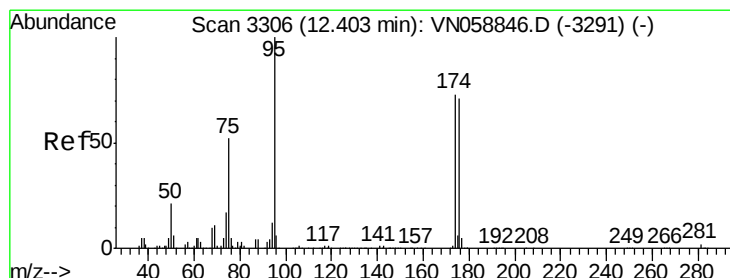
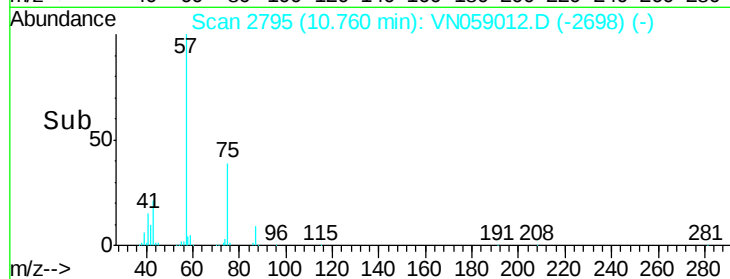
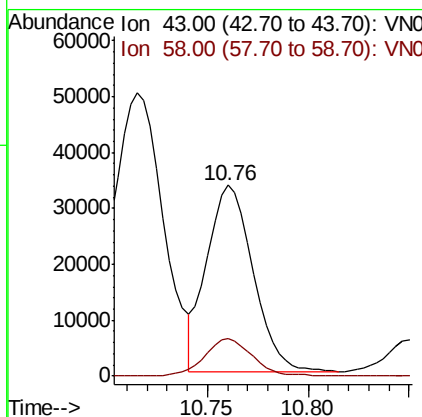
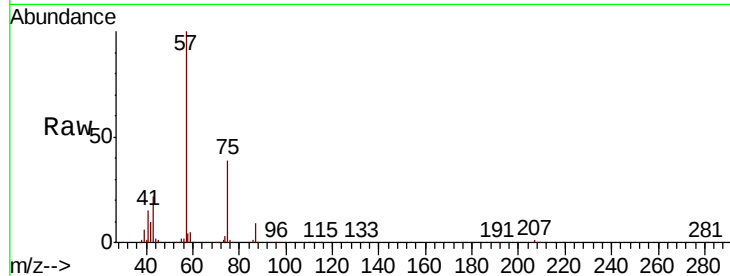




#59
2-Hexanone
Concen: 11.204 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN059012.D
Acq: 29 Oct 2019 15:45

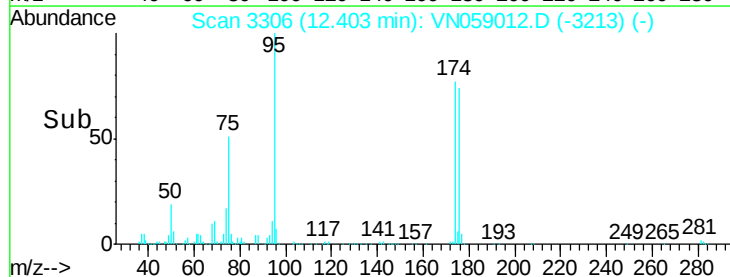
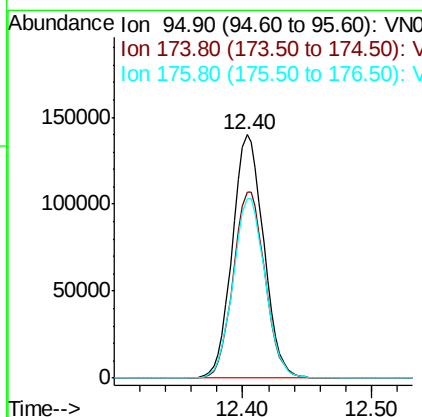
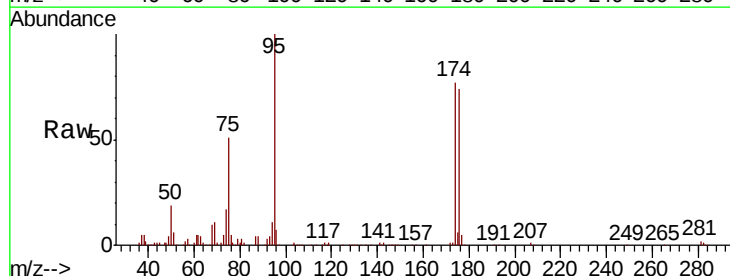
Instrument :
MSVOA_N
ClientSampled :

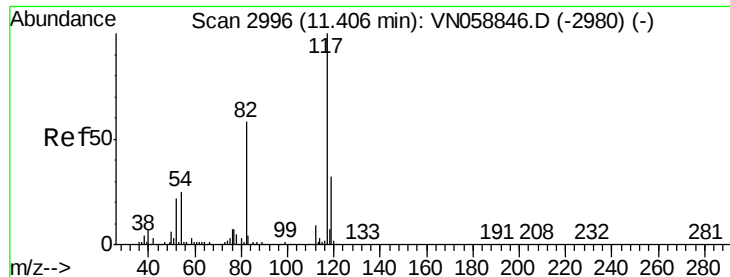
Tot Ion: 43 Resp: 53133
Ion Ratio Lower Upper
43 100
58 20.8 25.9 77.7#



#62
4-Bromofluorobenzene
Concen: 42.932 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN059012.D
Acq: 29 Oct 2019 15:45

Tgt Ion: 95 Resp: 236300
Ion Ratio Lower Upper
95 100
174 77.5 0.0 147.6
176 75.4 0.0 143.2

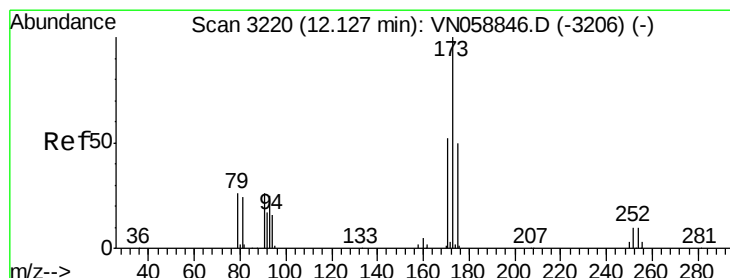
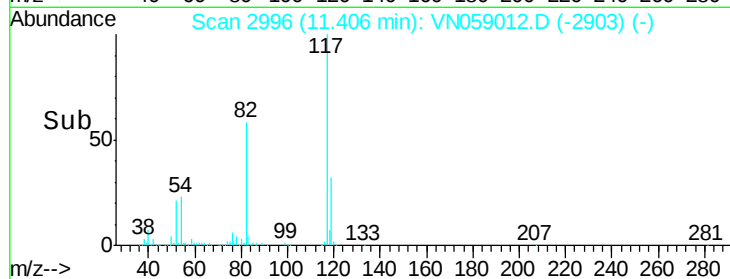
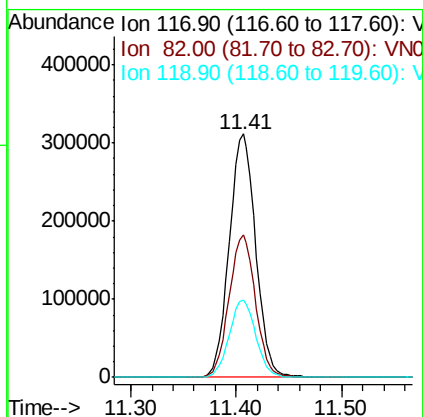
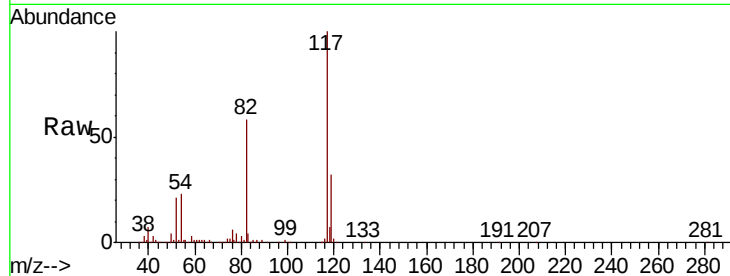




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN059012.D
Acq: 29 Oct 2019 15:45

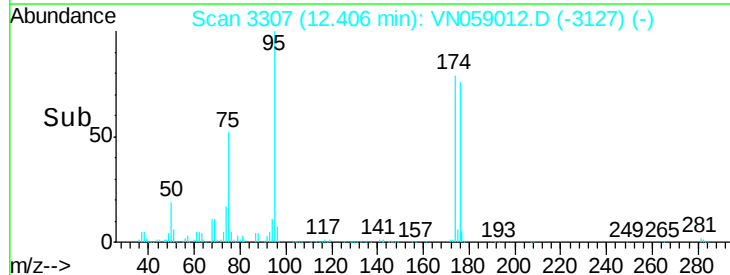
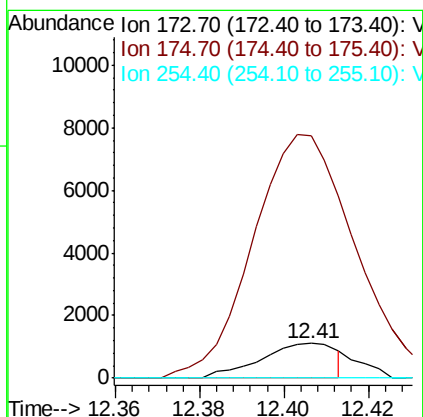
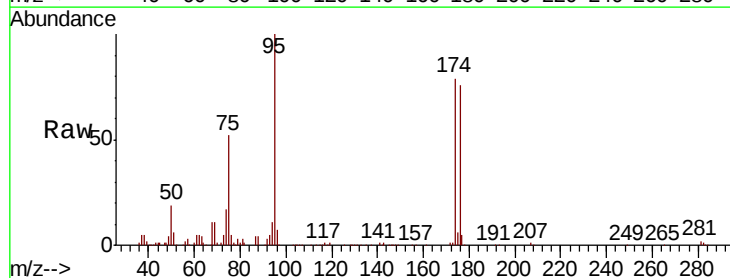
Instrument :
MSVOA_N
ClientSampled :

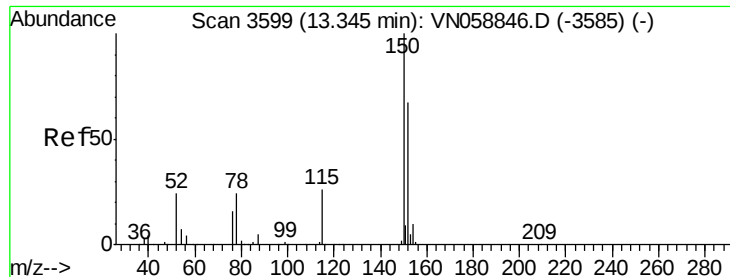
Tot Ion:117 Resp: 539144
Ion Ratio Lower Upper
117 100
82 58.3 46.6 69.8
119 31.8 25.6 38.4



#71
Bromoform
Concen: 0.431 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN059012.D
Acq: 29 Oct 2019 15:45

Tgt Ion:173 Resp: 1385
Ion Ratio Lower Upper
173 100
175 752.9 24.7 74.1#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN059012.D

Acq: 29 Oct 2019 15:45

Instrument :

MSVOA_N

ClientSampled :

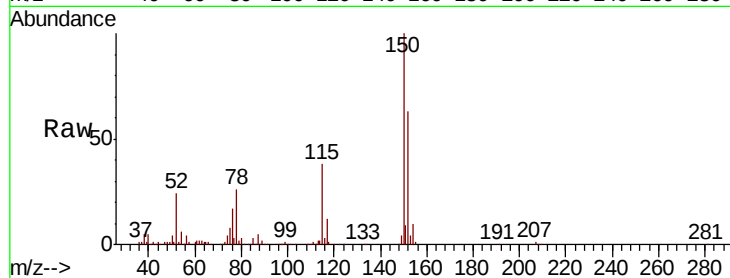
Tot Ion:152 Resp: 195125

Ion Ratio Lower Upper

152 100

115 60.5 30.5 91.5

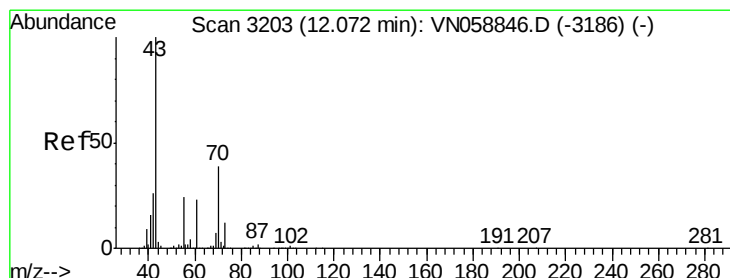
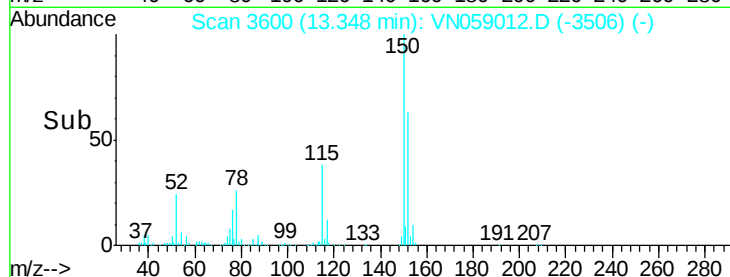
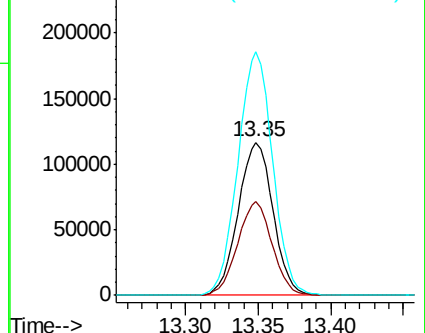
150 158.7 0.0 344.4



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: 0.545 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN059012.D

Acq: 29 Oct 2019 15:45

Tgt Ion: 43 Resp: 3525

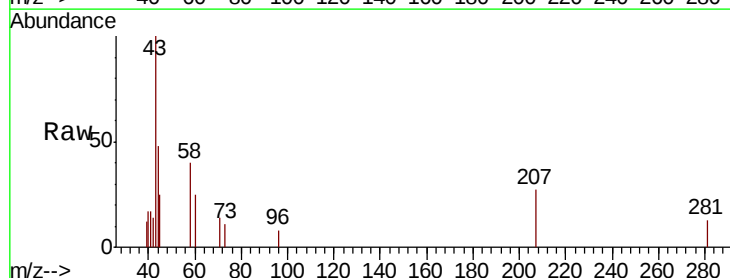
Ion Ratio Lower Upper

43 100

70 0.0 30.9 46.3#

55 1.8 19.7 29.5#

61 0.0 18.2 27.4#

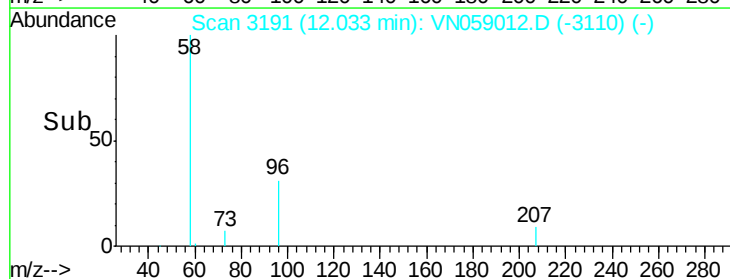
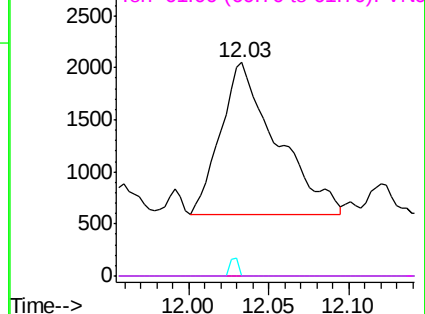


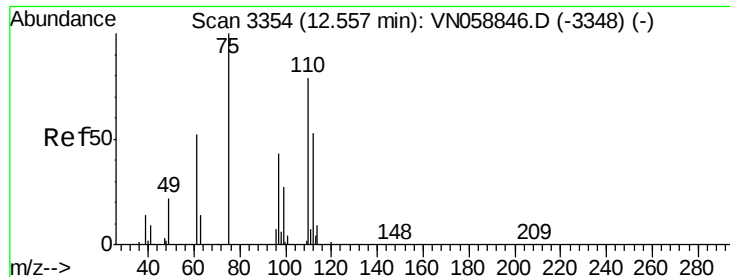
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

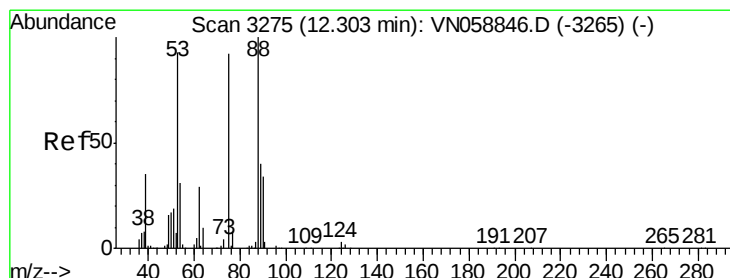
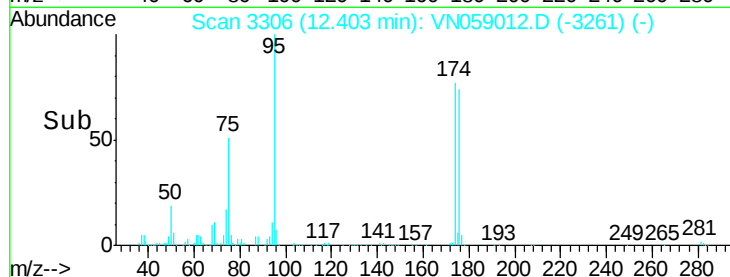
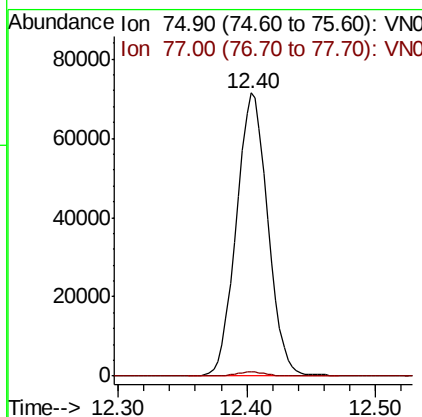
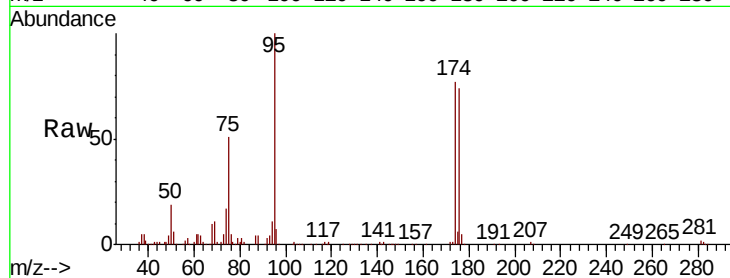




#76
 1,2,3-Trichloropropane
 Concen: 26.816 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN059012.D
 Acq: 29 Oct 2019 15:45

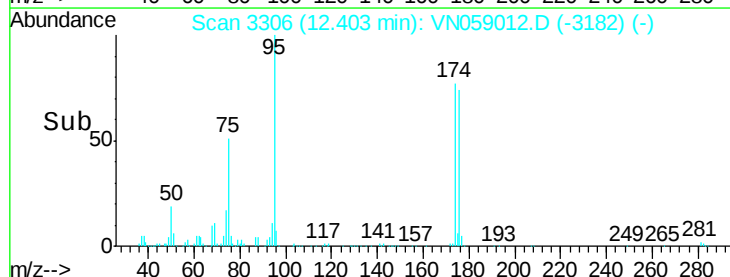
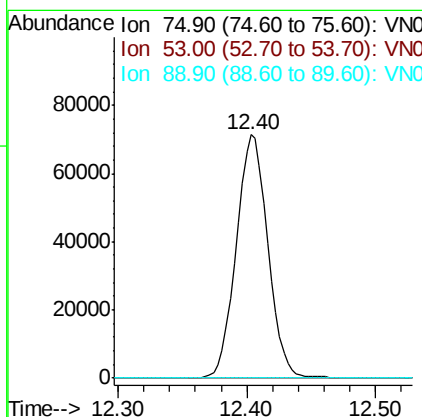
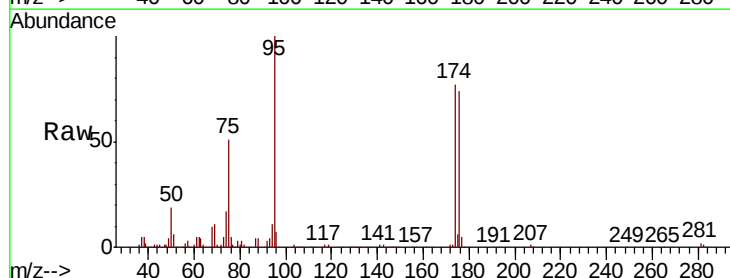
Instrument :
 MSVOA_N
 ClientSampleId :

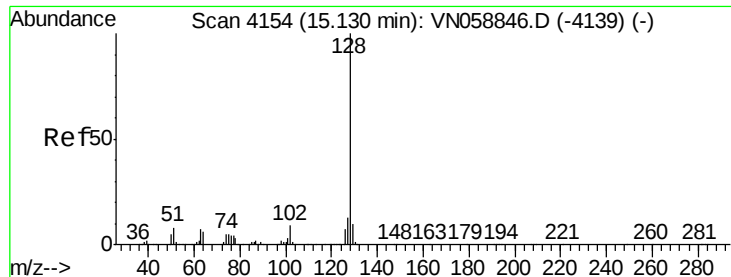
Tot Ion: 75 Resp: 121270
 Ion Ratio Lower Upper
 75 100
 77 1.5 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.859 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN059012.D
 Acq: 29 Oct 2019 15:45

Tgt Ion: 75 Resp: 121270
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.6 118.0#
 89 0.0 35.4 53.0#





#95

Naphthalene

Concen: 2.290 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059012.D

Acq: 29 Oct 2019 15:45

Instrument :

MSVOA_N

ClientSampleId :

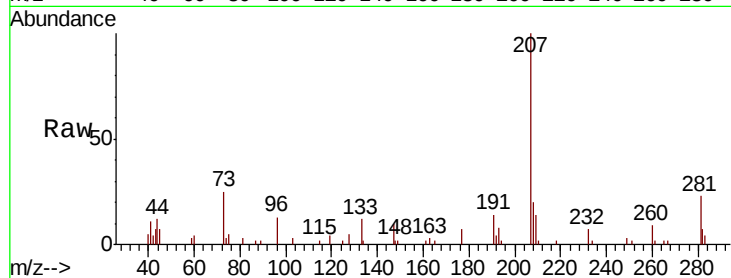
Tot Ion:128 Resp: 761

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.4 12.6#



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

