

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020819\
 Data File : VN053682.D
 Acq On : 8 Feb 2019 15:31
 Operator : JC/SP
 Sample : PB116934TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 09 02:36:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	866429	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1420500	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1295782	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	545190	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	448341	51.58	ug/l	0.00
Spiked Amount			Recovery	=	103.16%	
35) Dibromofluoromethane	7.59	113	442741	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
50) Toluene-d8	10.09	98	1724558	51.17	ug/l	0.00
Spiked Amount			Recovery	=	102.34%	
62) 4-Bromofluorobenzene	12.40	95	583832	51.94	ug/l	0.00
Spiked Amount			Recovery	=	103.88%	

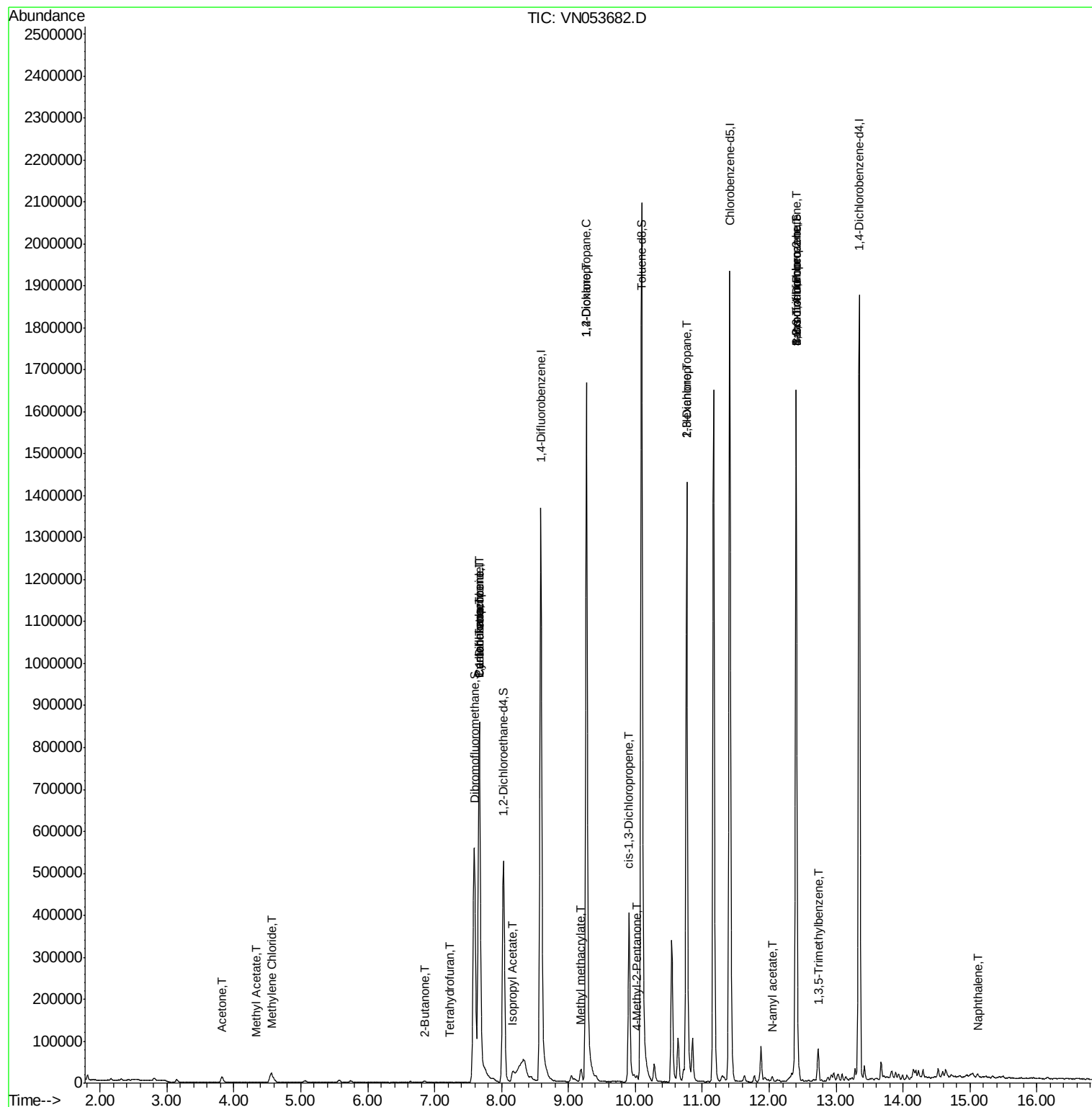
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	23095	10.359	ug/l	96
18) Methyl Acetate	4.32	43	1353	0.205	ug/l #	89
20) Methylene Chloride	4.56	84	15763	1.685	ug/l	94
25) 2-Butanone	6.85	43	3709	1.166	ug/l #	82
29) Tetrahydrofuran	7.23	42	1337	0.655	ug/l #	76
31) Cyclohexane	7.67	56	13723	0.767	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	50779	3.966	ug/l #	49
38) Carbon Tetrachloride	7.67	117	68635	5.321	ug/l #	16
43) Isopropyl Acetate	8.17	43	40797	2.954	ug/l #	80
45) 1,2-Dichloropropane	9.27	63	2580	0.255	ug/l #	43
48) Methyl methacrylate	9.18	41	10581	1.605	ug/l #	12
49) 1,4-Dioxane	9.27	88	63	39.732	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	10046	1.480	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	90560	6.029	ug/l #	60
57) 1,3-Dichloropropane	10.76	76	17393	1.205	ug/l #	43
59) 2-Hexanone	10.77	43	215173	46.701	ug/l #	50
71) Bromoform	12.40	173	3381	0.513	ug/l #	1
74) N-amyl acetate	12.04	43	2605	0.283	ug/l #	72
76) 1,2,3-Trichloropropane	12.40	75	270056	38.565	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	26615	0.837	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	270056	108.442	ug/l #	15
95) Naphthalene	15.13	128	1789	1.808	ug/l #	72

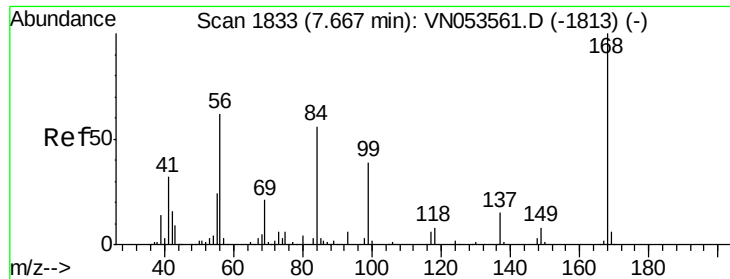
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053682.D

Acq: 8 Feb 2019 15:31

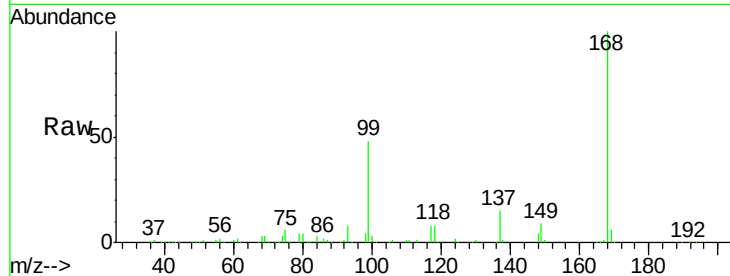
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 866429

Ion Ratio Lower Upper

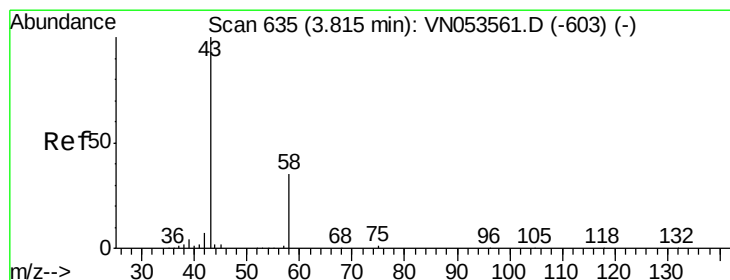
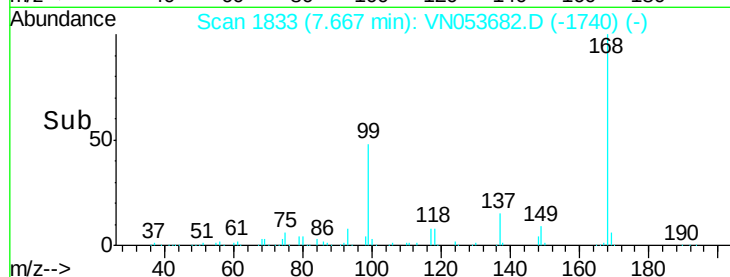
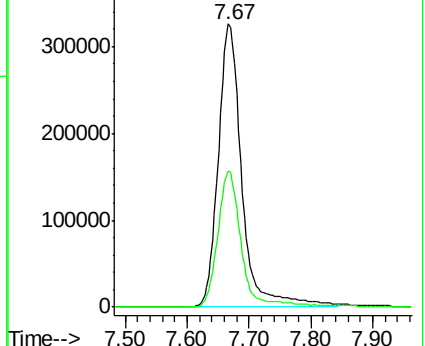
168 100

99 48.2 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 10.359 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053682.D

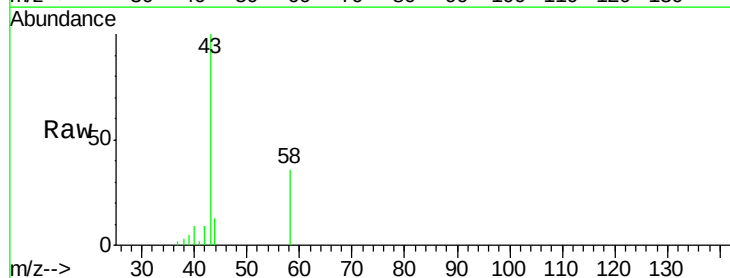
Acq: 8 Feb 2019 15:31

Tgt Ion: 43 Resp: 23095

Ion Ratio Lower Upper

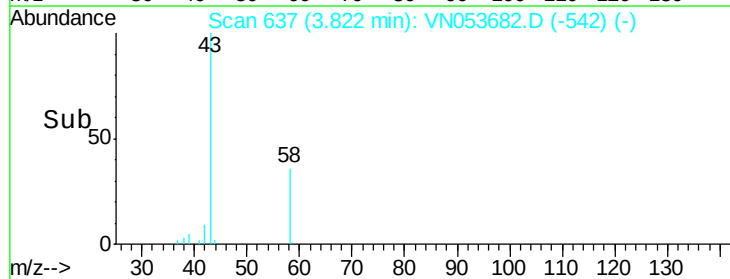
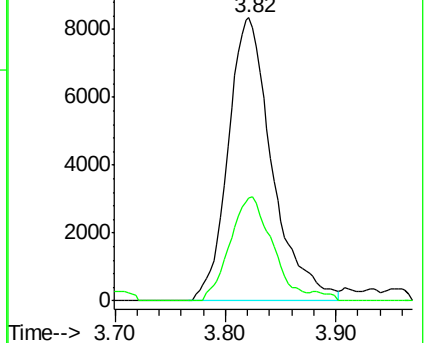
43 100

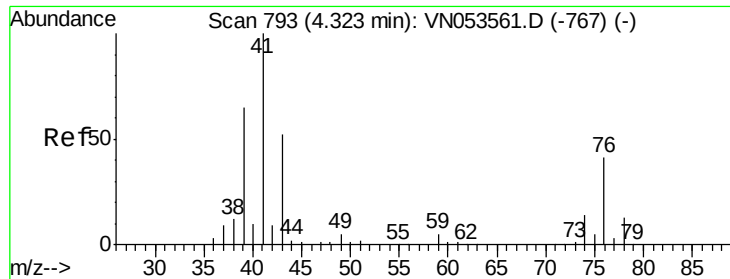
58 36.4 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

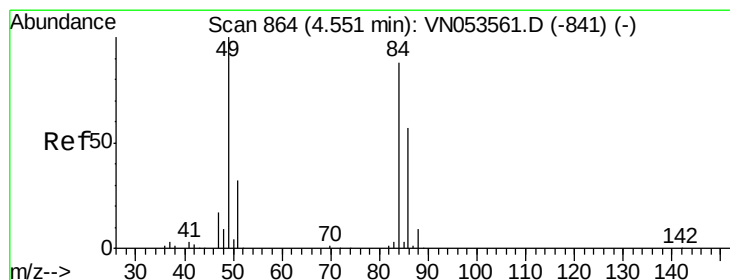
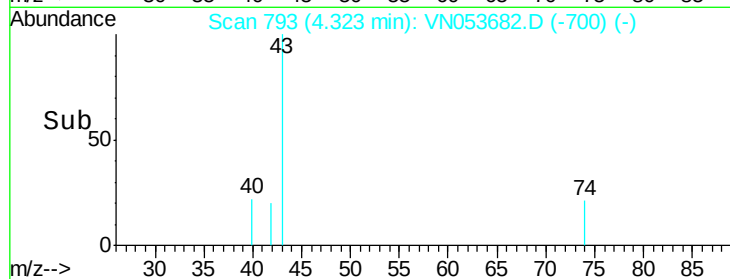
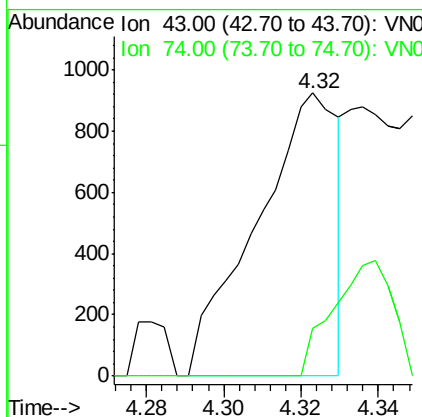
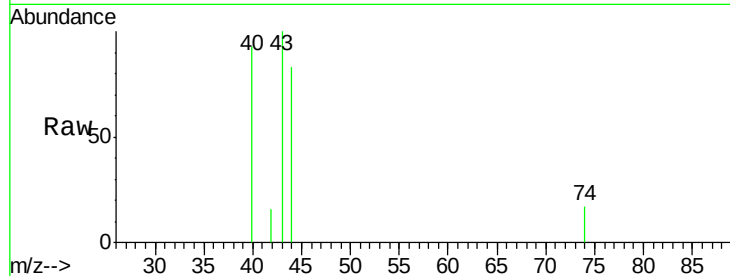




#18
Methyl Acetate
Concen: 0.205 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053682.D
Acq: 8 Feb 2019 15:31

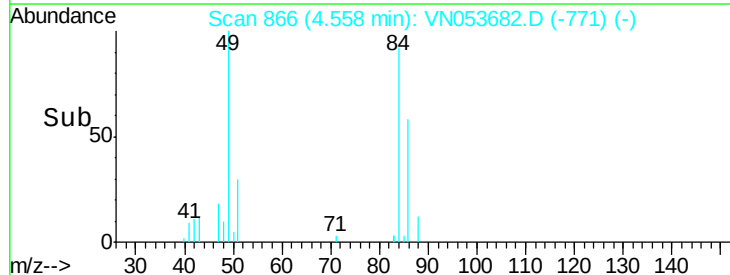
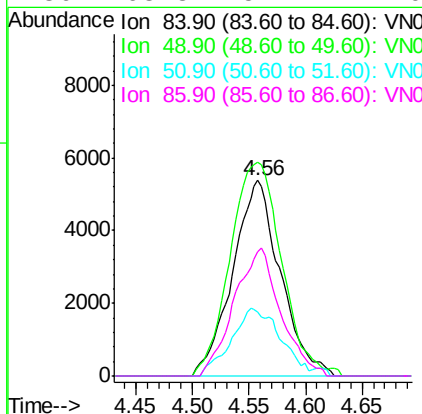
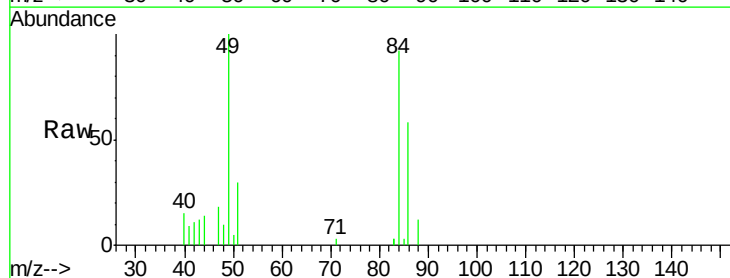
Instrument :
MSVOA_N
ClientSampleId :

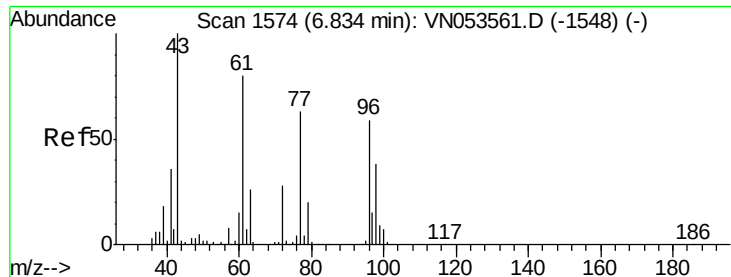
Tot Ion: 43 Resp: 1353
Ion Ratio Lower Upper
43 100
74 29.7 19.4 29.2#



#20
Methylene Chloride
Concen: 1.685 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN053682.D
Acq: 8 Feb 2019 15:31

Tgt Ion: 84 Resp: 15763
Ion Ratio Lower Upper
84 100
49 109.1 94.3 141.5
51 32.6 29.4 44.2
86 63.3 51.4 77.0





#25

2-Butanone

Concen: 1.166 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VN053682.D

Acq: 8 Feb 2019 15:31

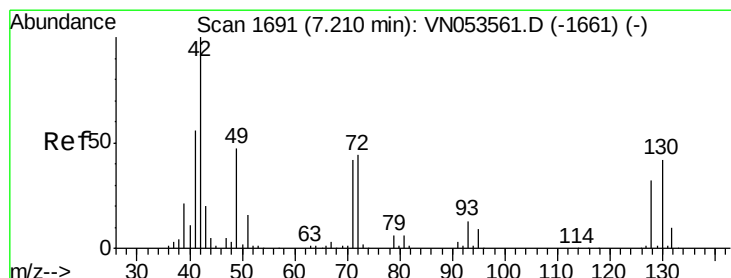
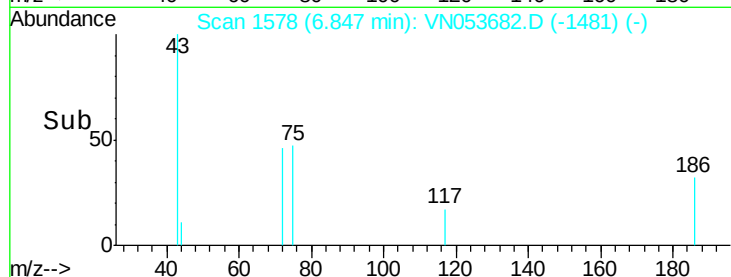
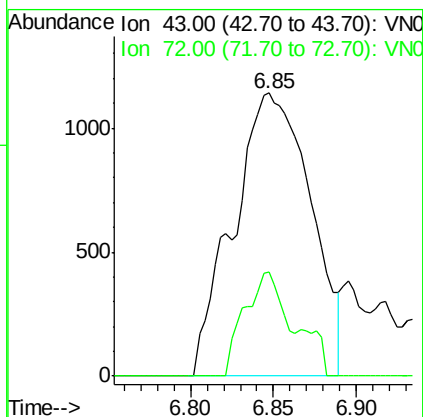
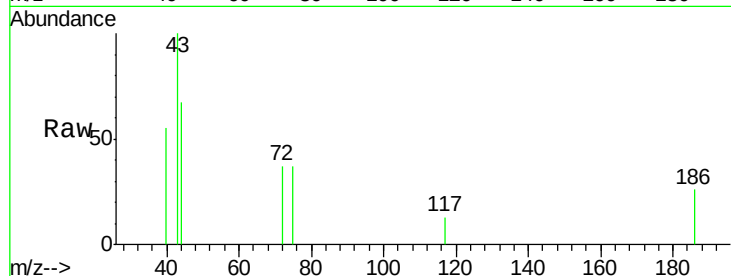
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 3709

Ion Ratio Lower Upper

43 100

72 36.6 22.0 33.0#



#29

Tetrahydrofuran

Concen: 0.655 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.02 min

Lab File: VN053682.D

Acq: 8 Feb 2019 15:31

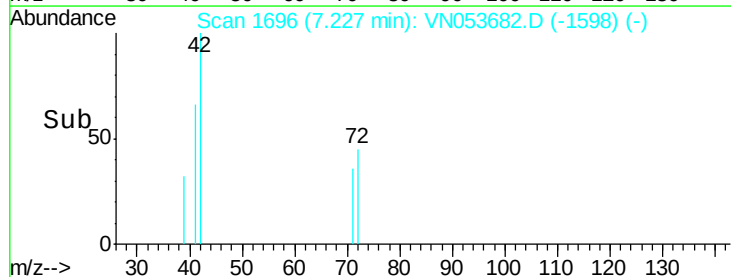
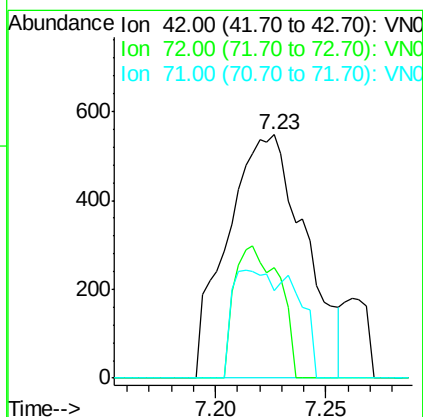
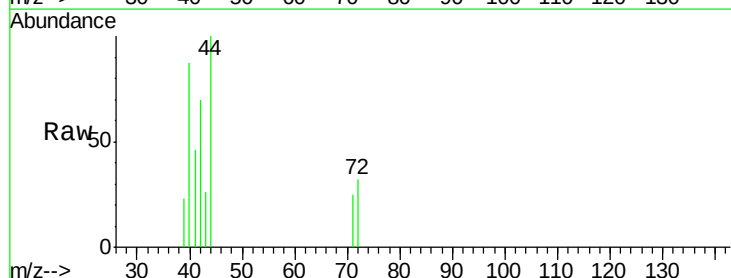
Tgt Ion: 42 Resp: 1337

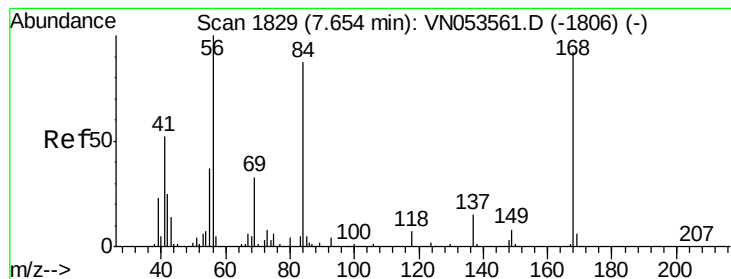
Ion Ratio Lower Upper

42 100

72 31.3 35.2 52.8#

71 22.9 33.0 49.4#





#31

Cyclohexane

Concen: 0.767 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN053682.D

Acq: 8 Feb 2019 15:31

Instrument :

MSVOA_N

ClientSampleId :

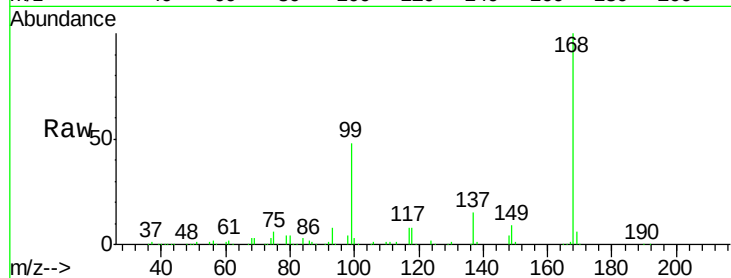
Tot Ion: 56 Resp: 13723

Ion Ratio Lower Upper

56 100

69 198.5 26.4 39.6#

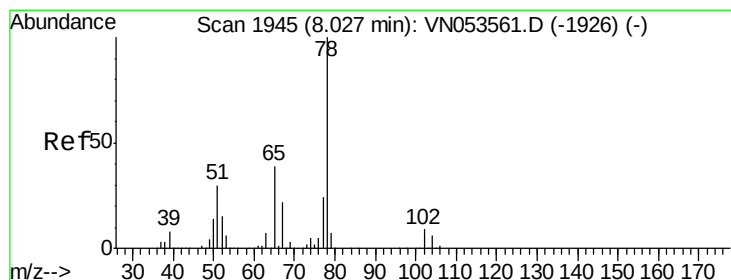
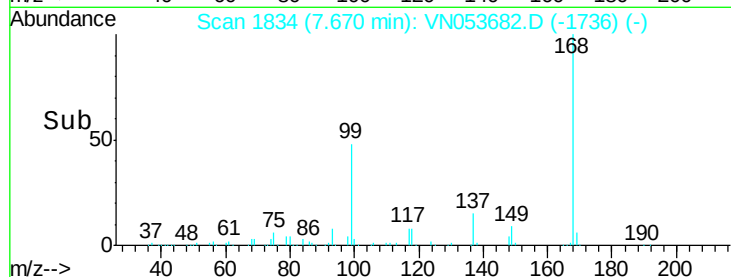
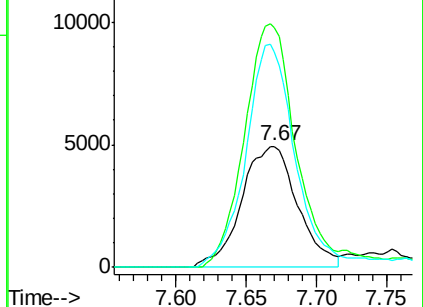
84 177.5 67.9 101.9#



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: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053682.D

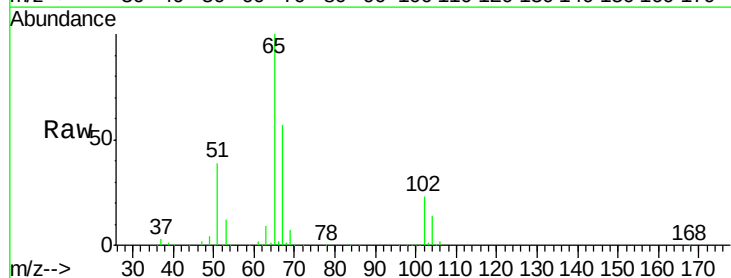
Acq: 8 Feb 2019 15:31

Tgt Ion: 65 Resp: 448341

Ion Ratio Lower Upper

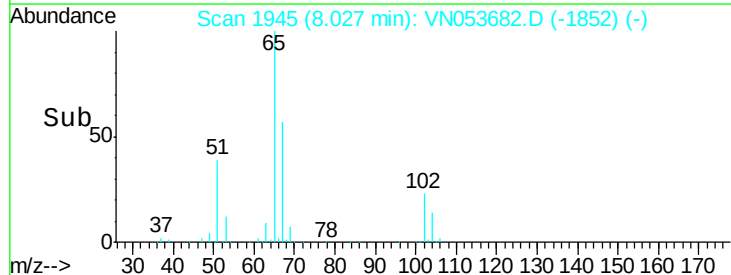
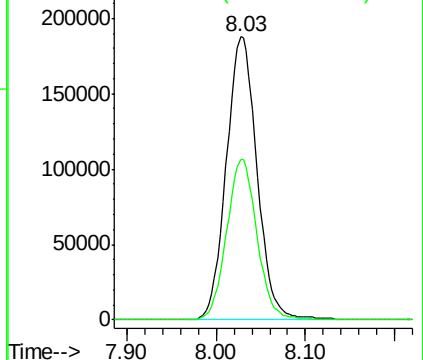
65 100

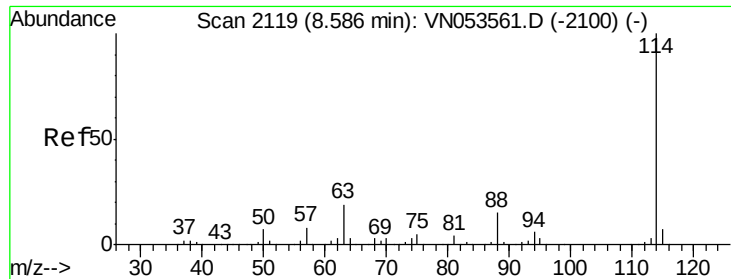
67 56.1 0.0 111.2



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: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053682.D

Acq: 8 Feb 2019 15:31

Instrument :

MSVOA_N

ClientSampleId :

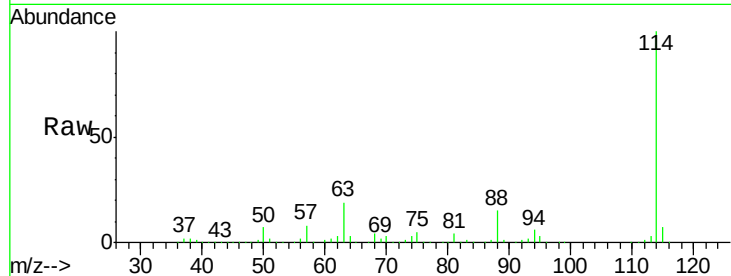
Tot Ion:114 Resp: 1420500

Ion Ratio Lower Upper

114 100

63 19.1 0.0 38.6

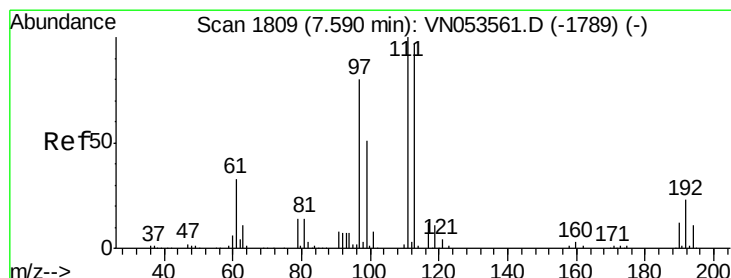
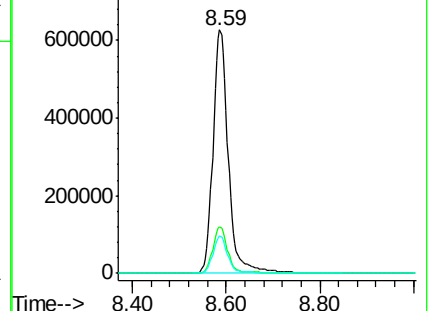
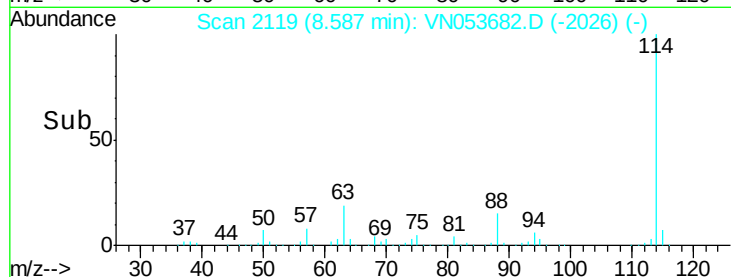
88 15.2 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053682.D

Acq: 8 Feb 2019 15:31

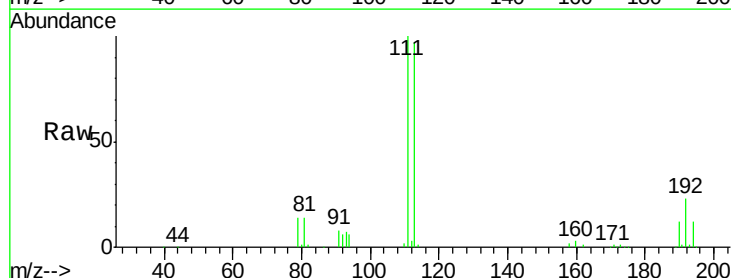
Tgt Ion:113 Resp: 442741

Ion Ratio Lower Upper

113 100

111 102.3 81.1 121.7

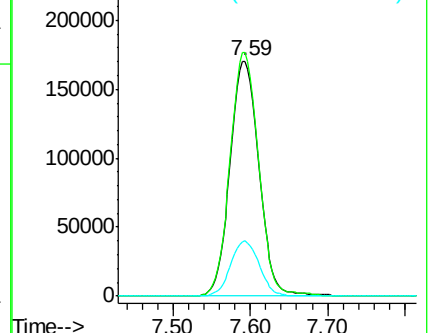
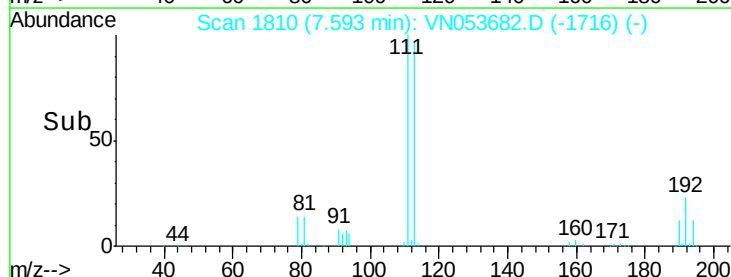
192 23.1 18.2 27.2

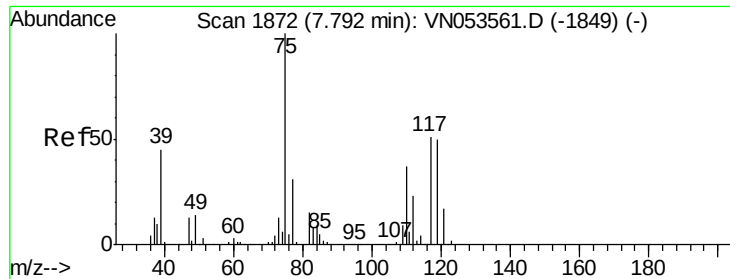


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

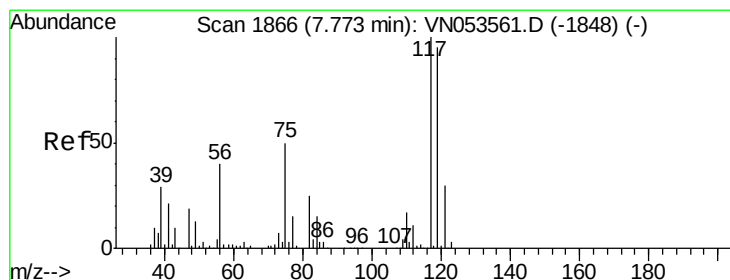
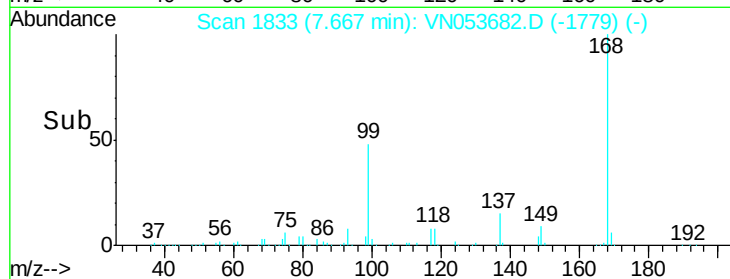
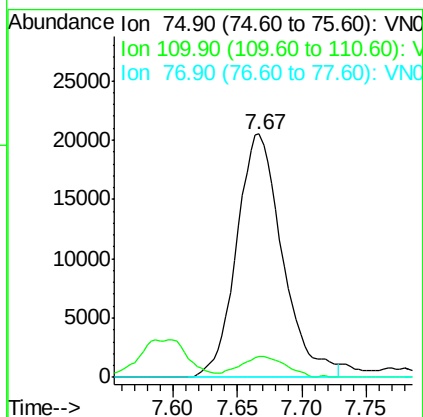
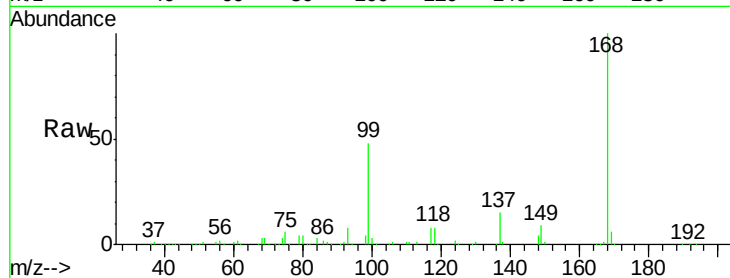




#36
 1,1-Dichloropropene
 Concen: 3.966 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053682.D
 Acq: 8 Feb 2019 15:31

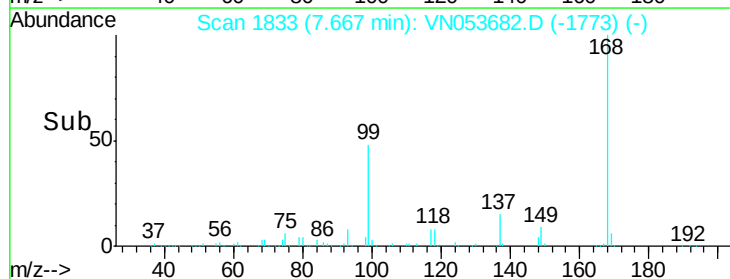
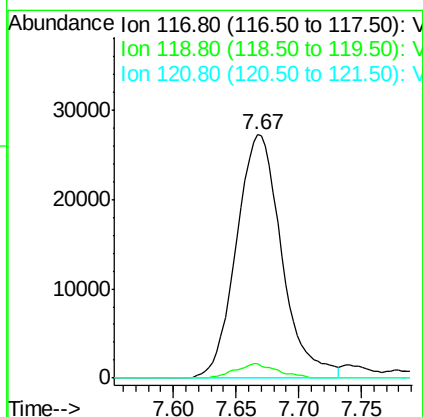
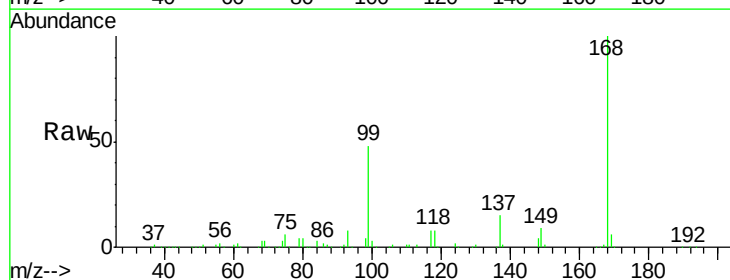
Instrument :
 MSVOA_N
 ClientSampled :

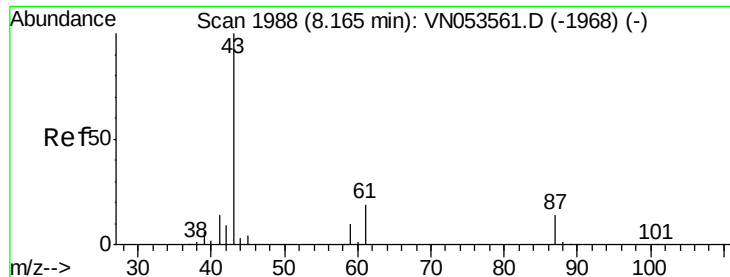
Tot Ion: 75 Resp: 50779
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.1 54.3#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 5.321 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN053682.D
 Acq: 8 Feb 2019 15:31

Tgt Ion: 117 Resp: 68635
 Ion Ratio Lower Upper
 117 100
 119 5.8 77.2 115.8#
 121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 2.954 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN053682.D

Acq: 8 Feb 2019 15:31

Instrument :

MSVOA_N

ClientSampleId :

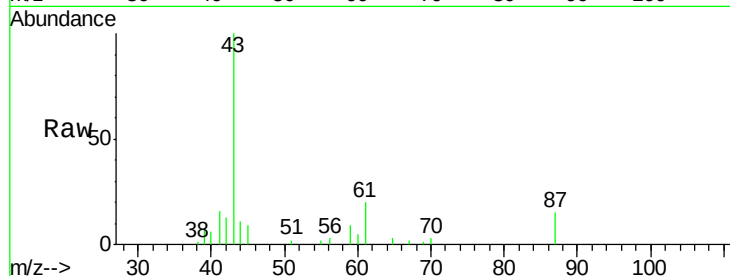
Tot Ion: 43 Resp: 40797

Ion Ratio Lower Upper

43 100

61 16.1 23.9 35.9#

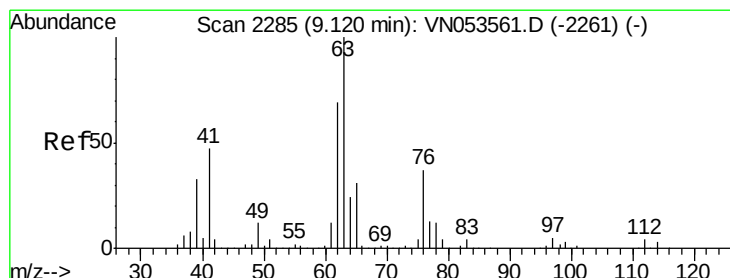
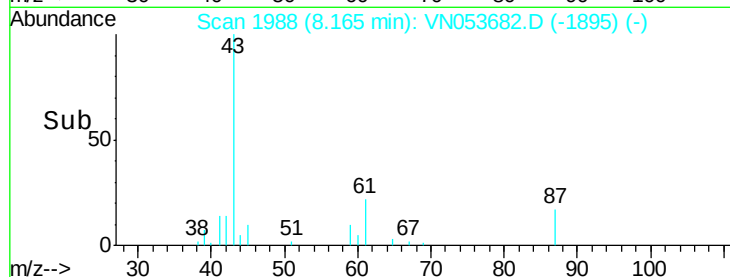
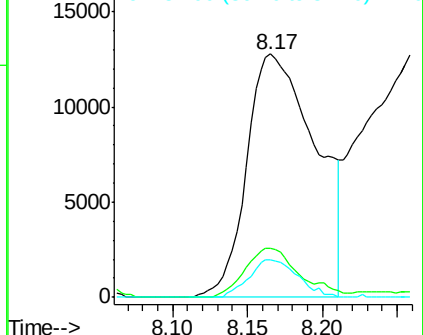
87 11.0 11.0 16.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.255 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN053682.D

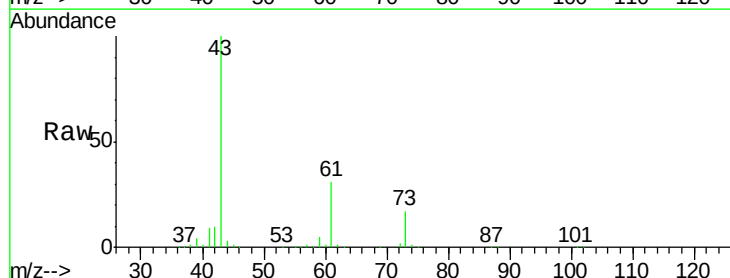
Acq: 8 Feb 2019 15:31

Tgt Ion: 63 Resp: 2580

Ion Ratio Lower Upper

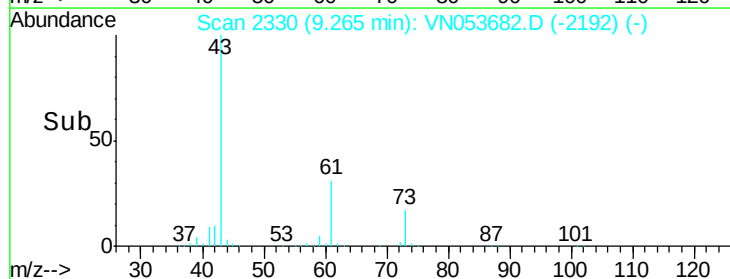
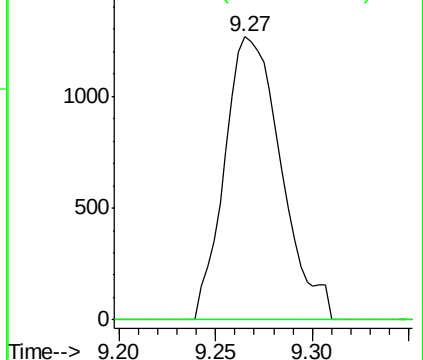
63 100

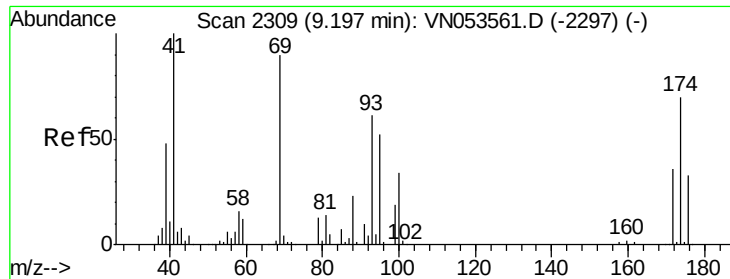
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

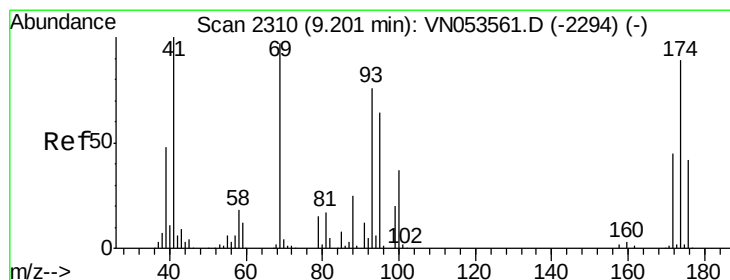
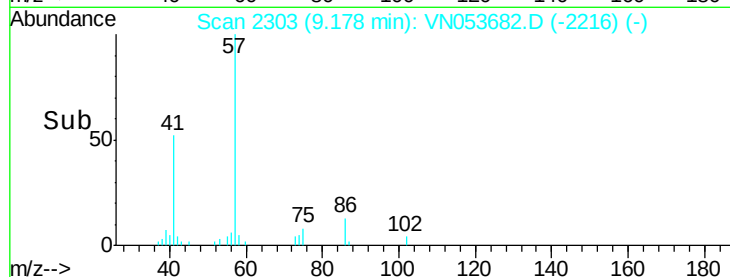
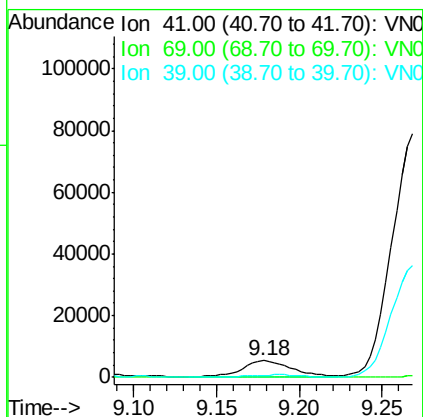
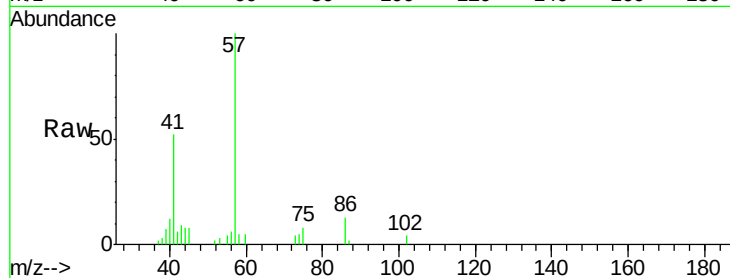




#48
Methvl methacrylate
Concen: 1.605 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN053682.D
Acq: 8 Feb 2019 15:31

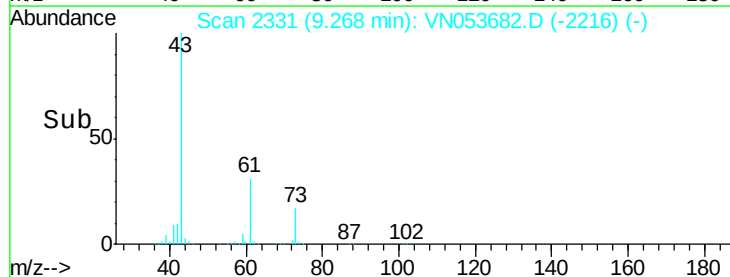
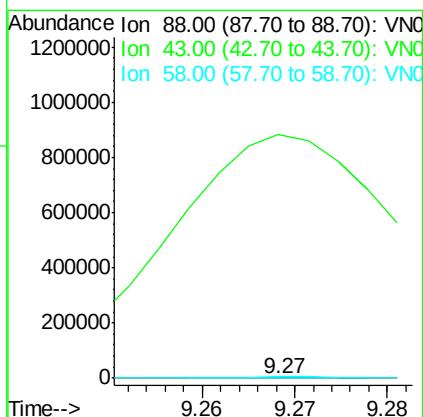
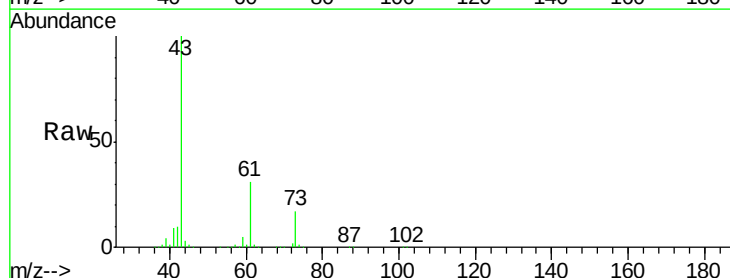
Instrument :
MSVOA_N
ClientSampled :

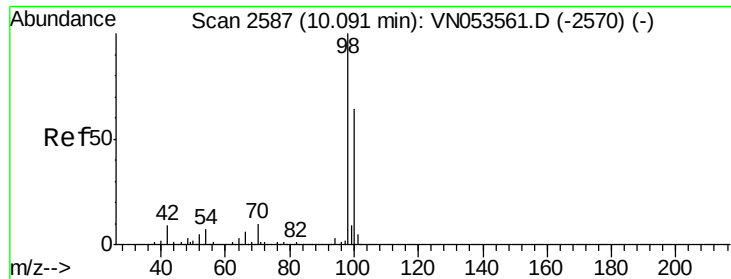
Tot Ion: 41 Resp: 10581
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 0.0 40.0 60.0#



#49
1,4-Dioxane
Concen: 39.732 ug/l
RT: 9.27 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN053682.D
Acq: 8 Feb 2019 15:31

Tgt Ion: 88 Resp: 63
Ion Ratio Lower Upper
88 100
43 2873692.1 27.8 41.6#
58 12671.4 56.5 84.7#

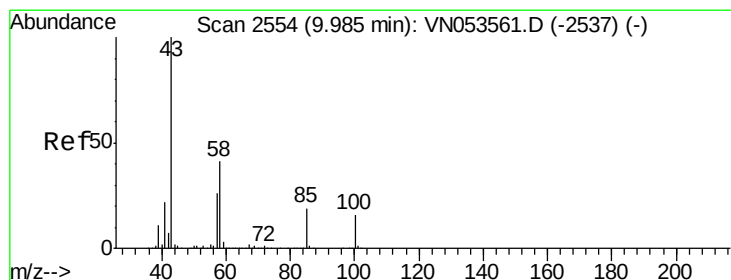
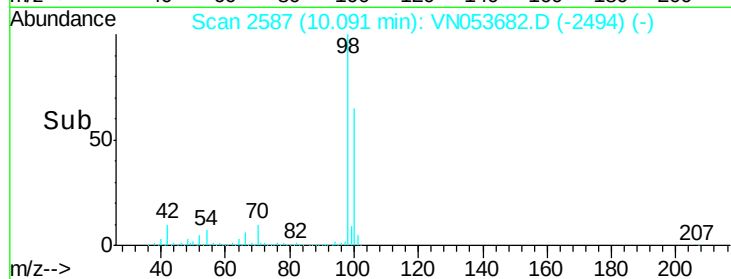
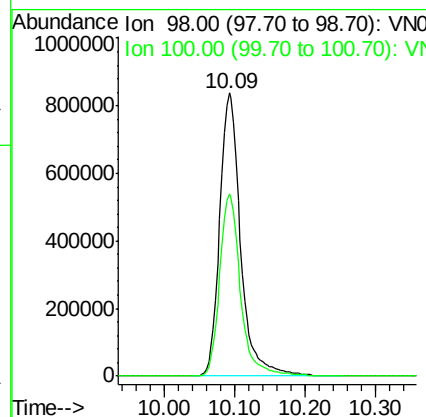
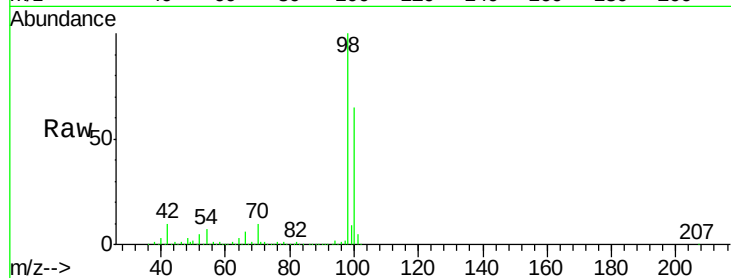




#50
Toluene-d8
Concen: 39.732 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053682.D
Acq: 8 Feb 2019 15:31

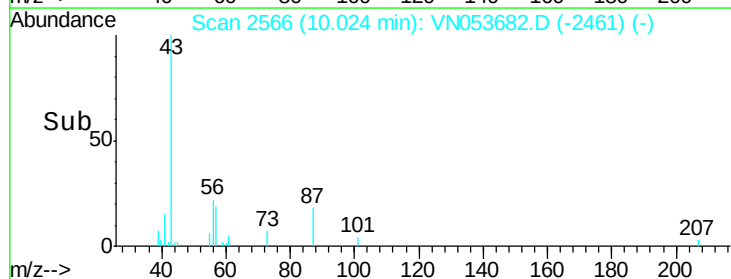
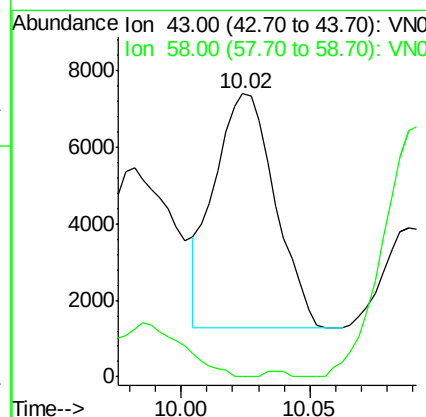
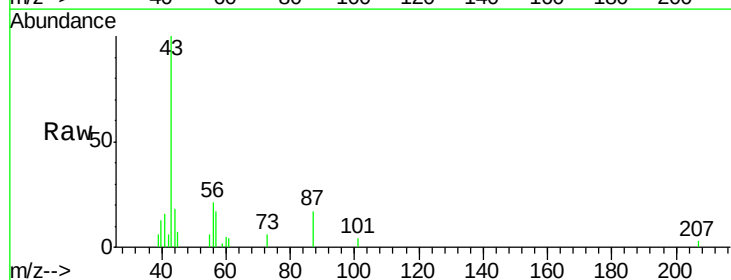
Instrument :
MSVOA_N
ClientSampleId :

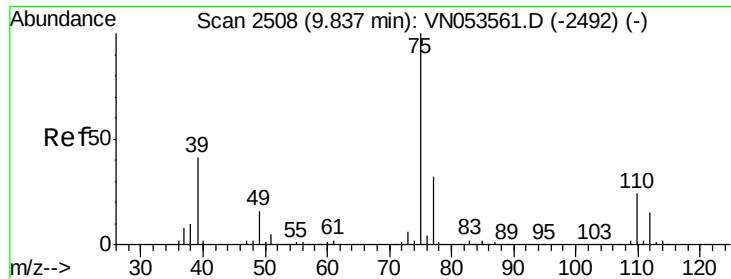
Tot Ion: 98 Resp: 1724558
Ion Ratio Lower Upper
98 100
100 64.3 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 1.480 ug/l
RT: 10.02 min Scan# 2566
Delta R.T. 0.04 min
Lab File: VN053682.D
Acq: 8 Feb 2019 15:31

Tgt Ion: 43 Resp: 10046
Ion Ratio Lower Upper
43 100
58 0.0 32.8 49.2#



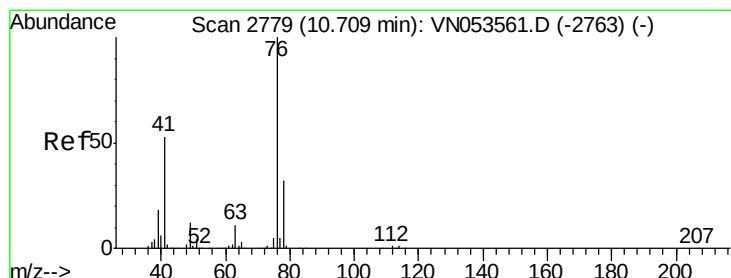
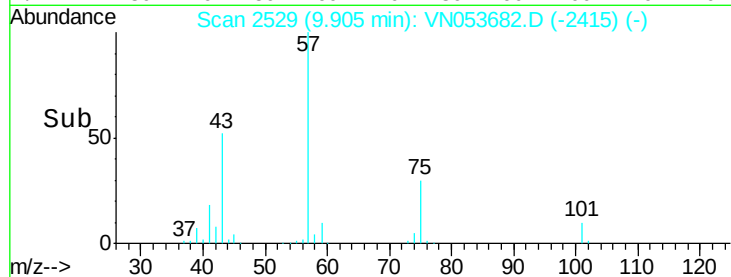
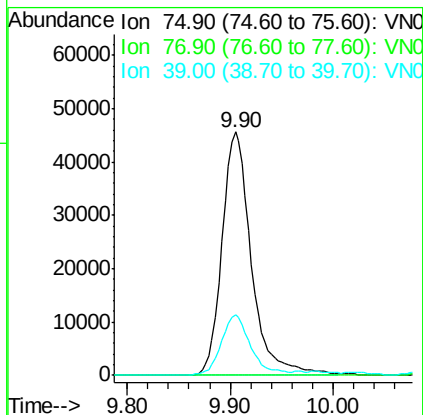
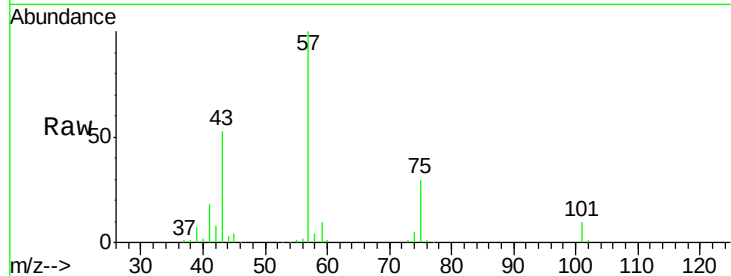


#54

cis-1,3-Dichloropropene
 Concen: 6.029 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN053682.D
 Acq: 8 Feb 2019 15:31

Instrument :
 MSVOA_N
 ClientSampled :

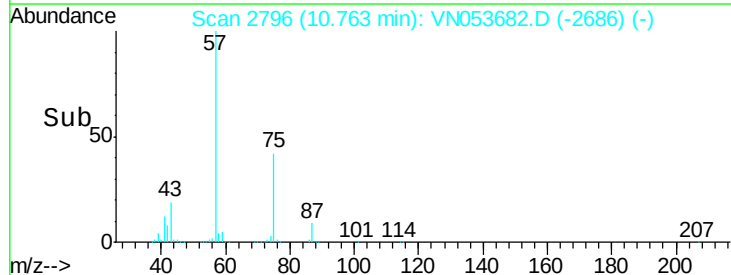
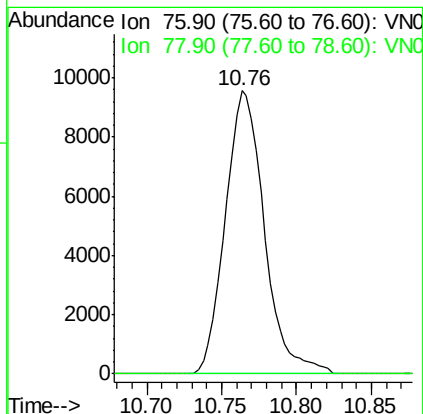
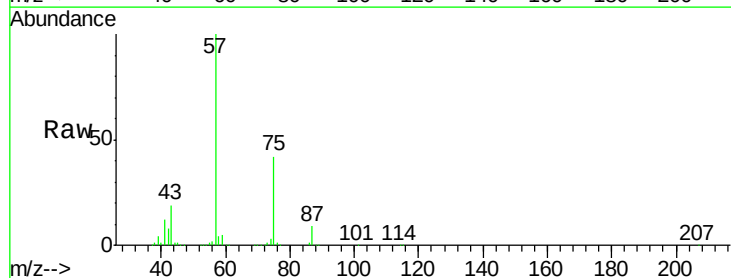
Tot Ion: 75 Resp: 90560
 Ion Ratio Lower Upper
 75 100
 77 0.4 25.8 38.6#
 39 24.6 33.4 50.0#

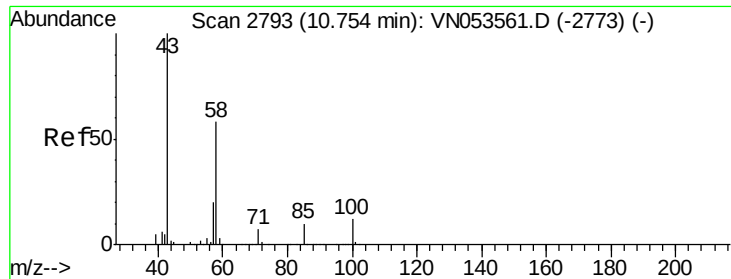


#57

1,3-Dichloropropane
 Concen: 1.205 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN053682.D
 Acq: 8 Feb 2019 15:31

Tgt Ion: 76 Resp: 17393
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

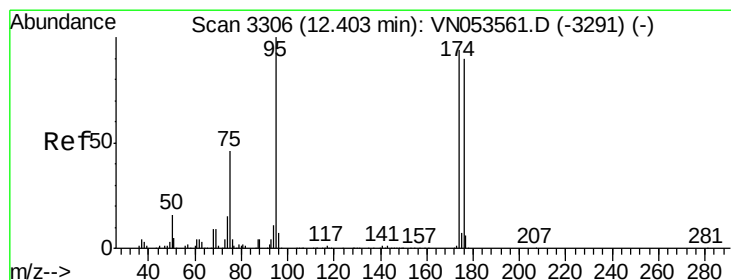
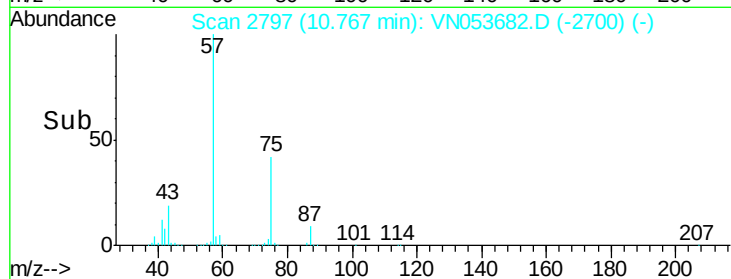
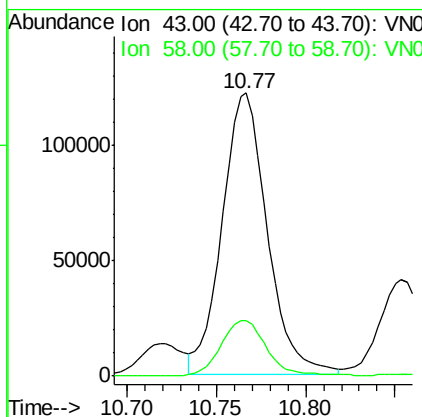
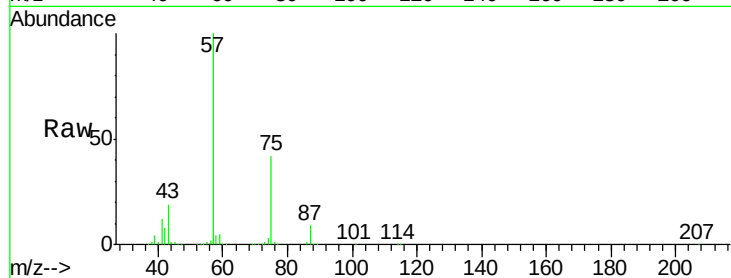




#59
2-Hexanone
Concen: 46.701 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN053682.D
Acq: 8 Feb 2019 15:31

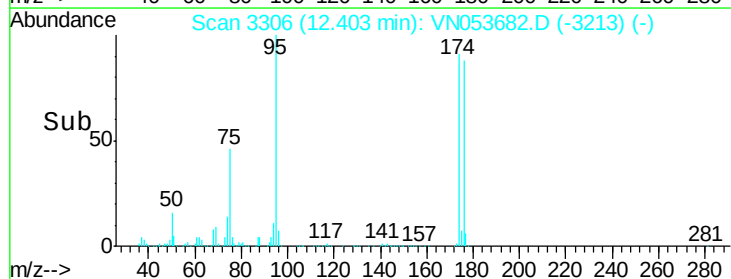
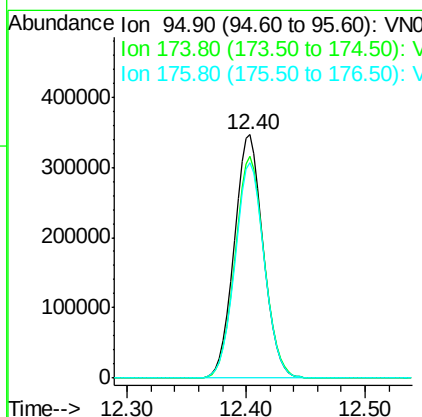
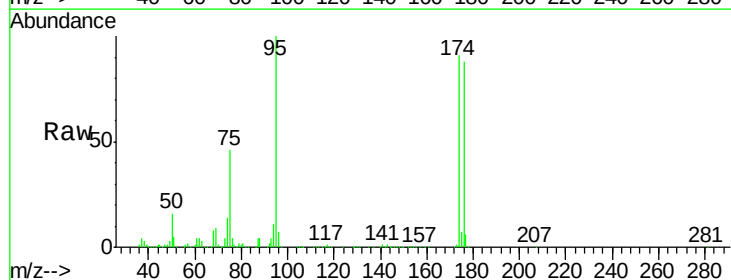
Instrument :
MSVOA_N
ClientSampled :

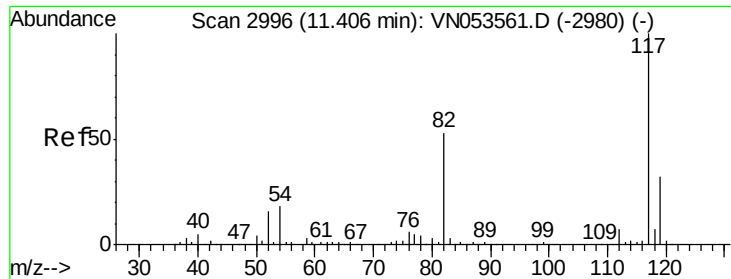
Tot Ion: 43 Resp: 215173
Ion Ratio Lower Upper
43 100
58 20.3 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053682.D
Acq: 8 Feb 2019 15:31

Tgt Ion: 95 Resp: 583832
Ion Ratio Lower Upper
95 100
174 91.7 0.0 183.2
176 89.4 0.0 177.4

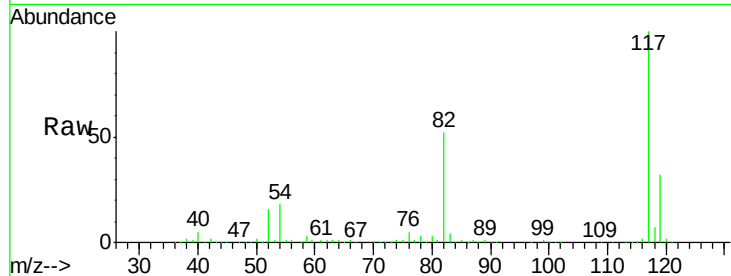




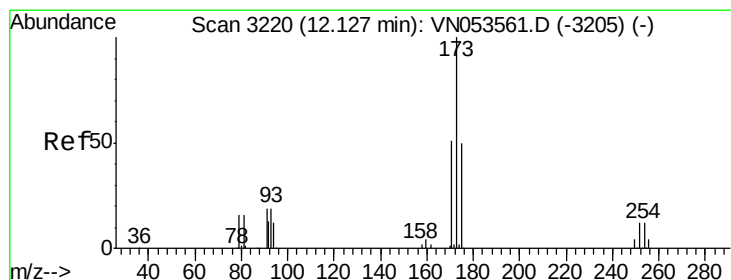
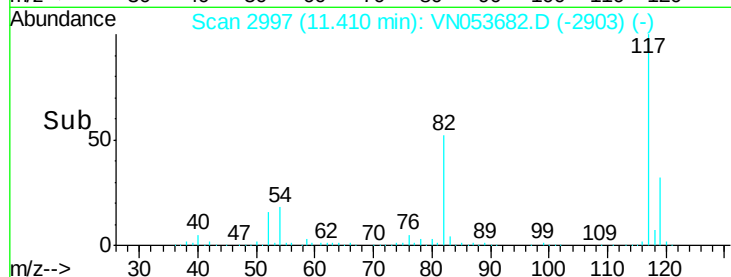
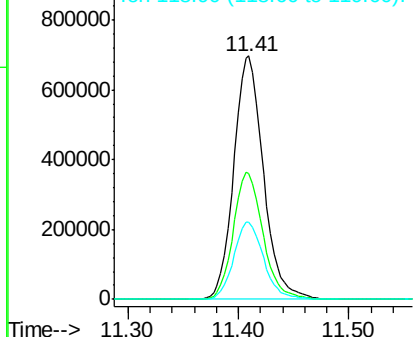
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053682.D
Acq: 8 Feb 2019 15:31

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 1295782
Ion Ratio Lower Upper
117 100
82 51.9 42.9 64.3
119 31.8 26.0 39.0

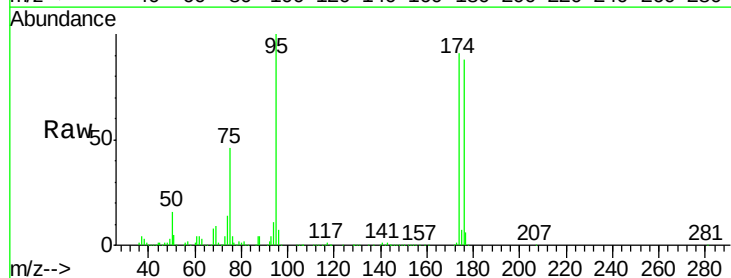


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

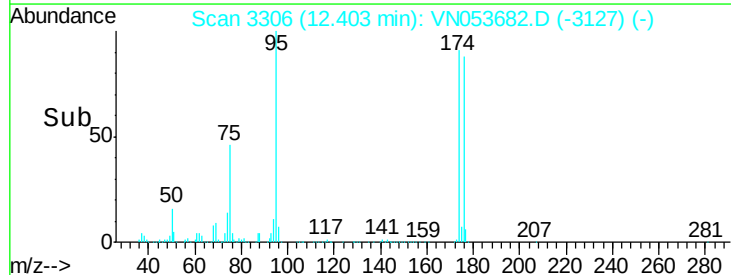
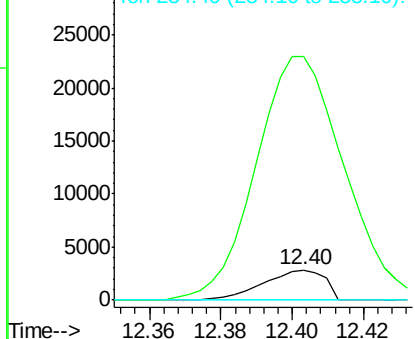


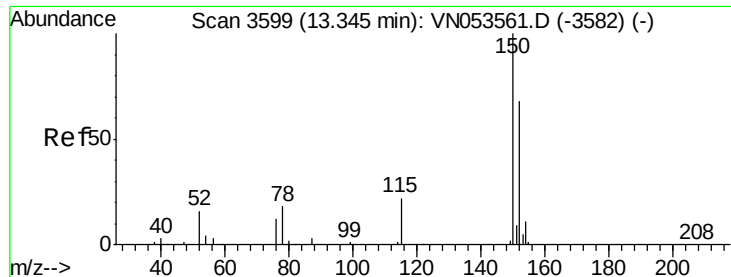
#71
Bromoform
Concen: 0.513 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053682.D
Acq: 8 Feb 2019 15:31

Tgt Ion:173 Resp: 3381
Ion Ratio Lower Upper
173 100
175 982.9 24.6 74.0#
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053682.D

Acq: 8 Feb 2019 15:31

Instrument :

MSVOA_N

ClientSampled :

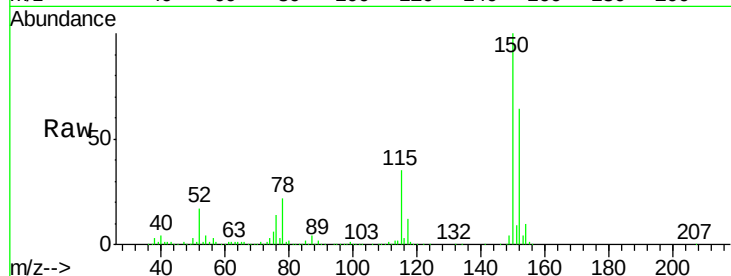
Tot Ion:152 Resp: 545190

Ion Ratio Lower Upper

152 100

115 55.5 27.8 83.4

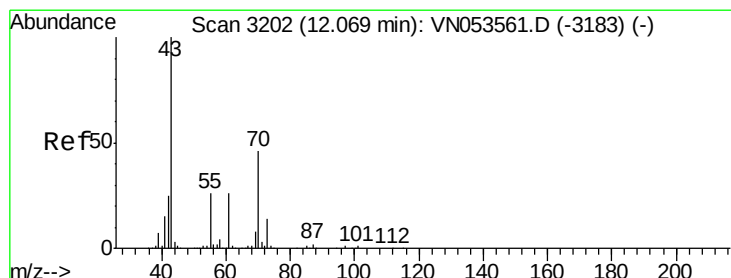
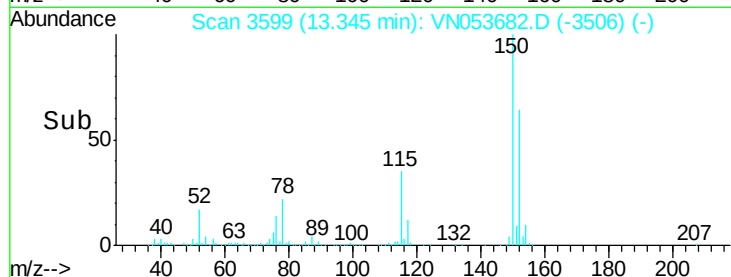
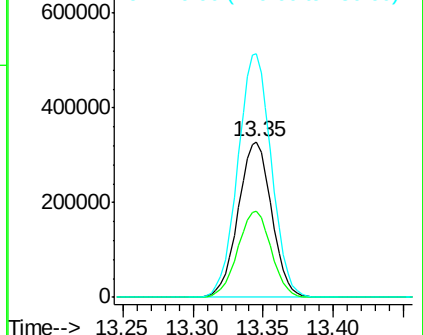
150 156.9 0.0 349.0



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: 0.283 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN053682.D

Acq: 8 Feb 2019 15:31

Tgt Ion: 43 Resp: 2605

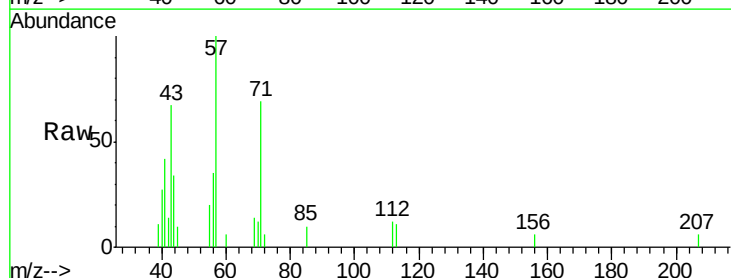
Ion Ratio Lower Upper

43 100

70 26.0 35.4 53.2#

55 28.1 20.9 31.3

61 0.0 20.5 30.7#

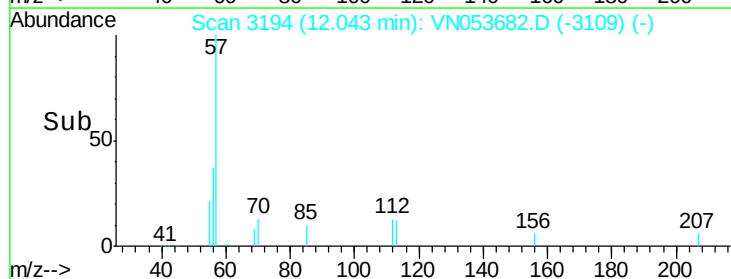
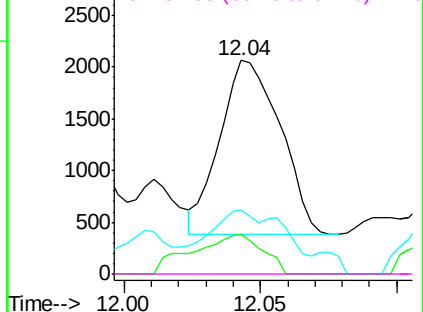


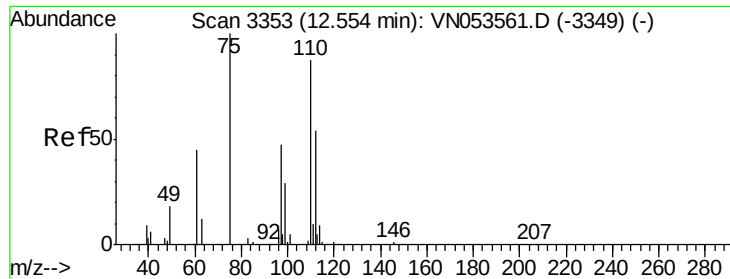
Abundance Ion 43.00 (42.70 to 43.70): V

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: 38.565 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053682.D

Acq: 8 Feb 2019 15:31

Instrument :

MSVOA_N

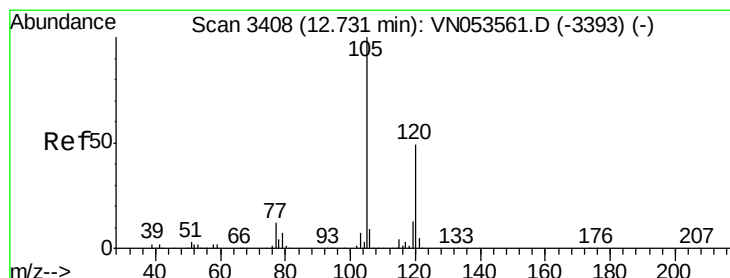
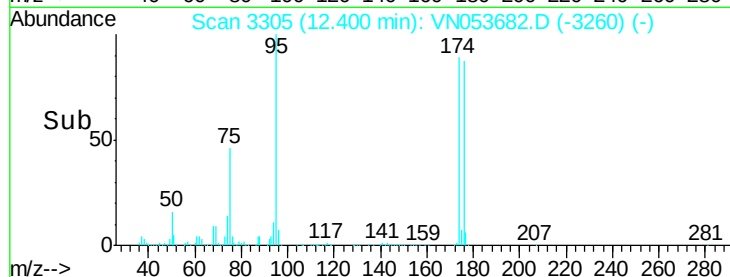
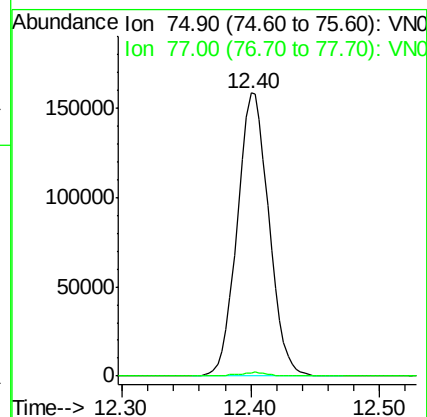
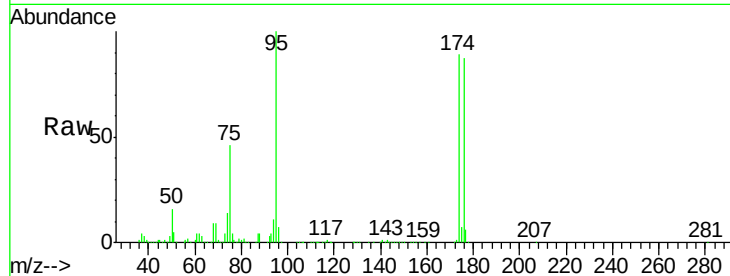
ClientSampled :

Tot Ion: 75 Resp: 270056

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.837 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053682.D

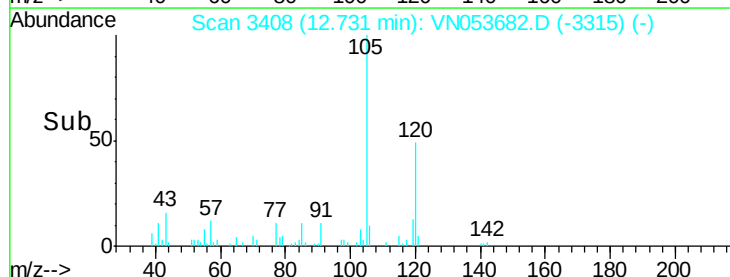
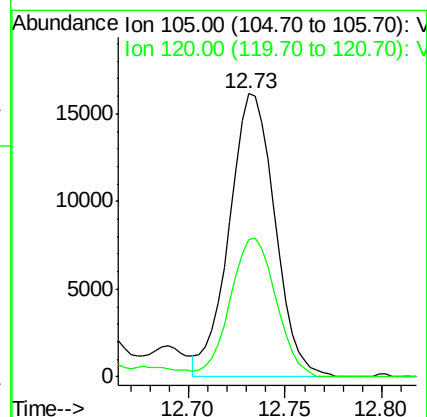
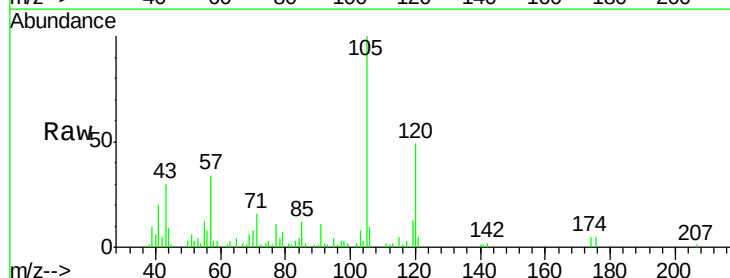
Acq: 8 Feb 2019 15:31

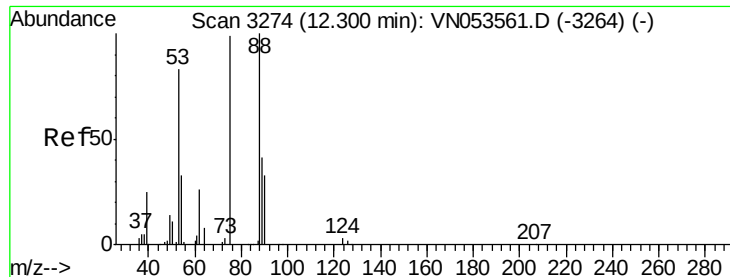
Tgt Ion: 105 Resp: 26615

Ion Ratio Lower Upper

105 100

120 48.9 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 108.442 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053682.D

Acq: 8 Feb 2019 15:31

Instrument :

MSVOA_N

ClientSampled :

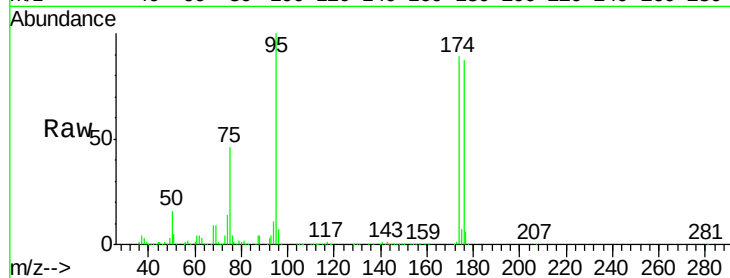
Tot Ion: 75 Resp: 270056

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

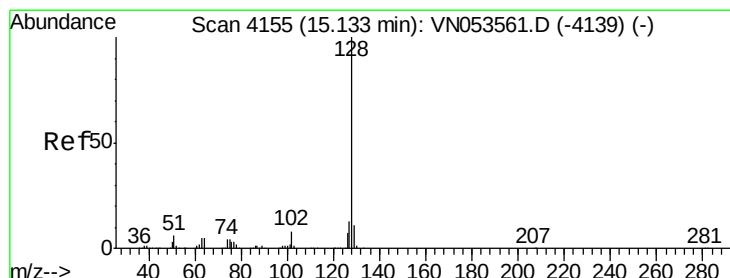
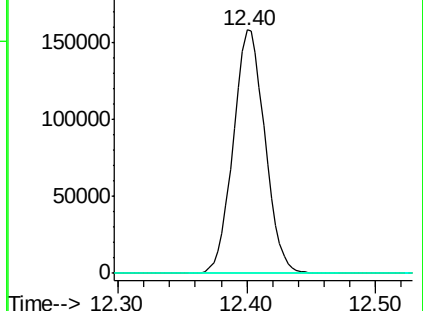
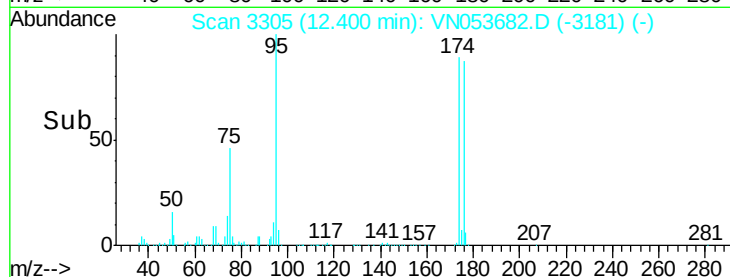
89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN053682.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN053682.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN053682.D (-3181) (-)



#95

Naphthalene

Concen: 1.808 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053682.D

Acq: 8 Feb 2019 15:31

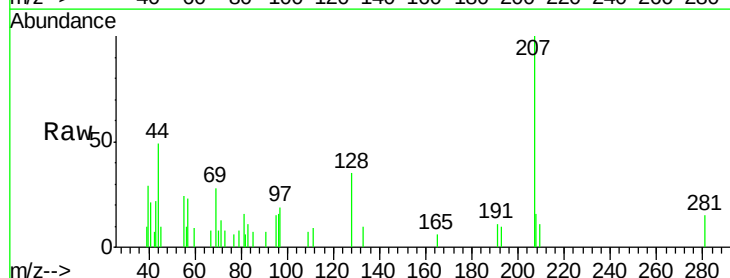
Tgt Ion: 128 Resp: 1789

Ion Ratio Lower Upper

128 100

127 1.8 10.3 15.5#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN053682.D (-4061) (-)

Ion 127.00 (126.70 to 127.70): VN053682.D (-4061) (-)

Ion 129.00 (128.70 to 129.70): VN053682.D (-4061) (-)

