

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101518\
 Data File : VN051873.D
 Acq On : 15 Oct 2018 14:46
 Operator : MD\SY
 Sample : J5512-01DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 16 00:46:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	129993	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	736095	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	591568	30.00	ug/l	0.00

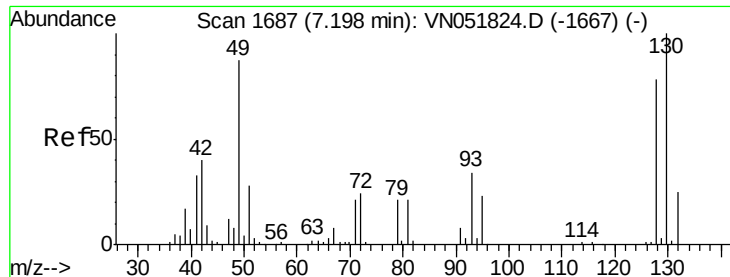
System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	244496	30.91	ug/l	0.00
Spiked Amount 30.000	Range 50 - 169		Recovery =	103.03%		
60) 4-Bromofluorobenzene	12.40	95	207932	24.38	ug/l	0.00
Spiked Amount 30.000	Range 56 - 143		Recovery =	81.27%		
63) Toluene-d8	10.09	98	829811	32.30	ug/l	0.00
Spiked Amount 30.000	Range 66 - 137		Recovery =	107.67%		

Target Compounds

					Ovalue	
13) Acrolein	3.41	56	73	0.298	ug/l #	1
15) Acetone	3.82	58	50201	122.259	ug/l	91
16) Carbon Disulfide	4.06	76	6417	0.408	ug/l #	76
25) Chloroform	7.37	83	62020	4.728	ug/l	86
30) 2-Butanone	6.85	43	478	0.241	ug/l #	67
41) Bromodichloromethane	9.40	83	4098	0.404	ug/l	89
45) 1,4-Dioxane	8.74	88	31	0.449	ug/l #	1
51) Ethyl methacrylate	10.10	69	2294	0.296	ug/l	80
56) Bromoform	12.40	173	1838	0.332	ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	5482	1.385	ug/l	96
59) 2-Hexanone	10.76	43	618	0.231	ug/l #	22
62) Toluene	10.16	91	705969	24.022	ug/l	98
77) t-1,4-Dichloro-2-butene	12.40	75	106626	59.946	ug/l #	12
79) tert-butylbenzene	13.29	119	17783	0.675	ug/l	58
82) p-Isopropyltoluene	13.29	119	17783	0.577	ug/l	96
89) 1,2,4-Trichlorobenzene	15.32	180	3154	8.054	ug/l	96
91) Naphthalene	15.14	128	8255	8.946	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	3154	0.473	ug/l	94

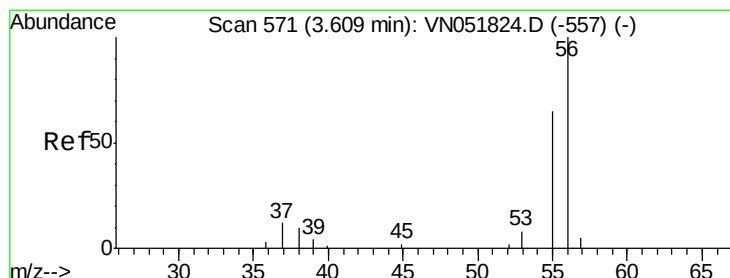
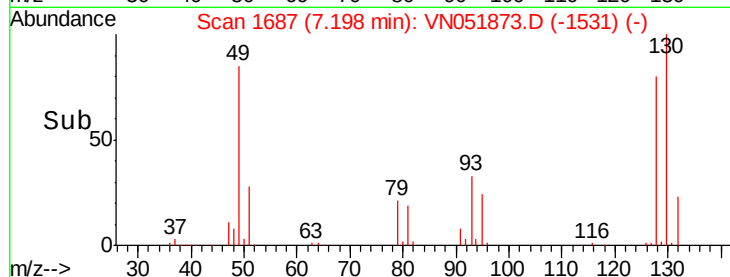
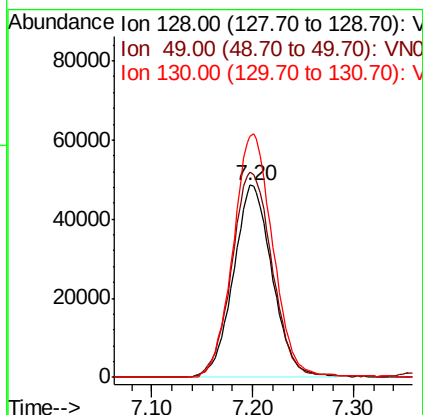
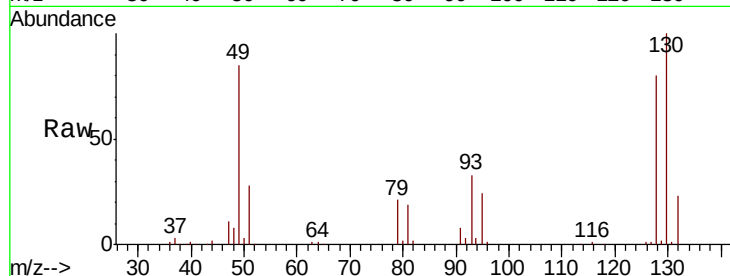
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.20 min Scan# 1687
 Delta R.T. 0.00 min
 Lab File: VN051873.D
 Acq: 15 Oct 2018 14:46

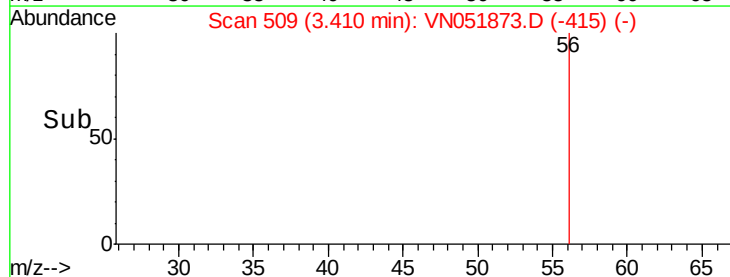
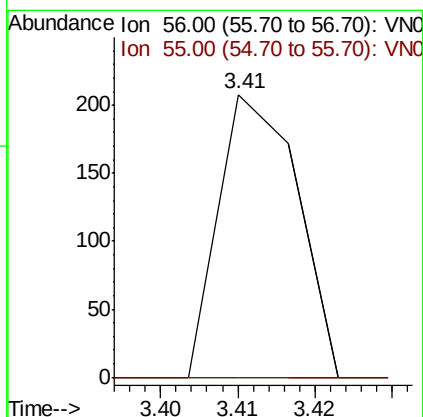
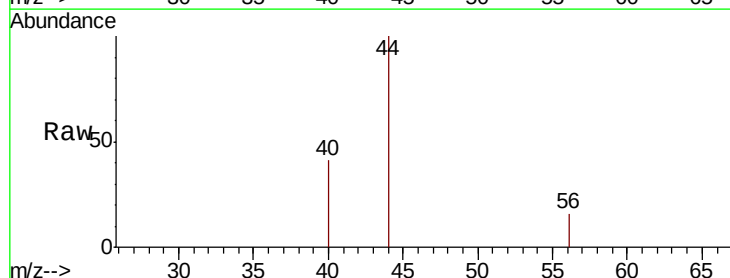
Instrument :
 MSVOA_N
 ClientSampleId :

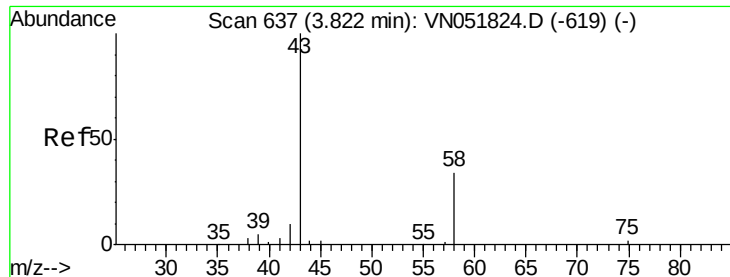
Tot Ion:128 Resp: 129993
 Ion Ratio Lower Upper
 128 100
 49 110.6 0.0 403.3
 130 128.3 0.0 326.0



#13
 Acrolein
 Concen: 0.298 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. -0.20 min
 Lab File: VN051873.D
 Acq: 15 Oct 2018 14:46

Tgt Ion: 56 Resp: 73
 Ion Ratio Lower Upper
 56 100
 55 245.2 64.0 96.0#





#15

Acetone

Concen: 122.259 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051873.D

Acq: 15 Oct 2018 14:46

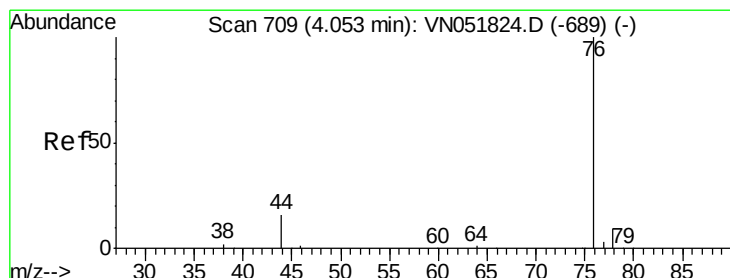
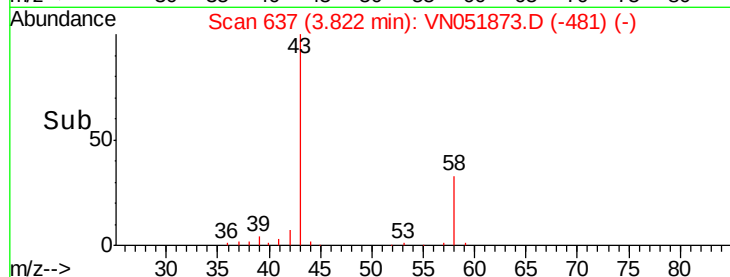
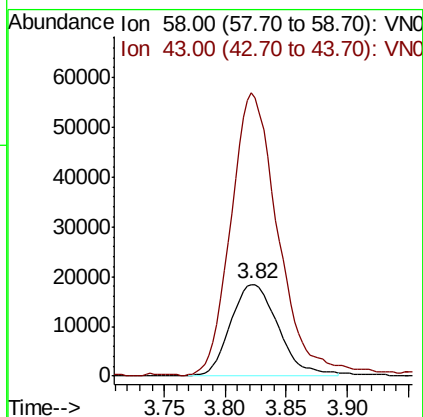
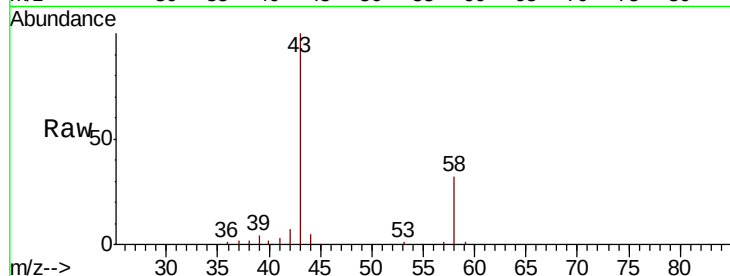
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 58 Resp: 50201

Ion Ratio Lower Upper

58 100

43 307.2 232.2 348.2



#16

Carbon Disulfide

Concen: 0.408 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.01 min

Lab File: VN051873.D

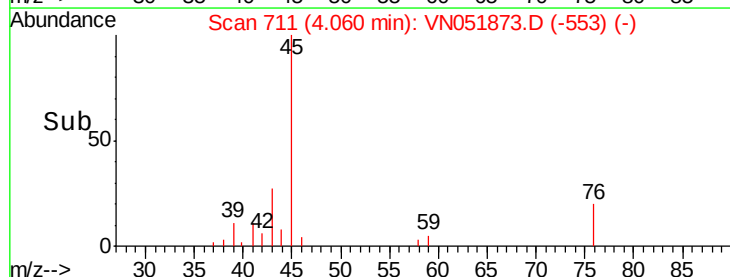
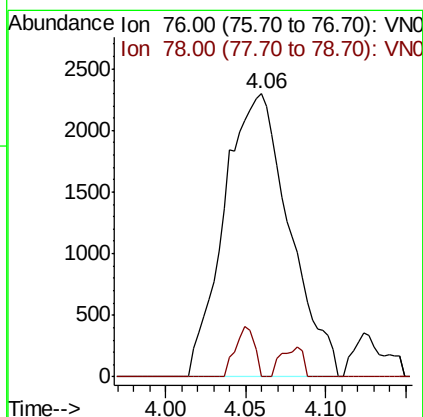
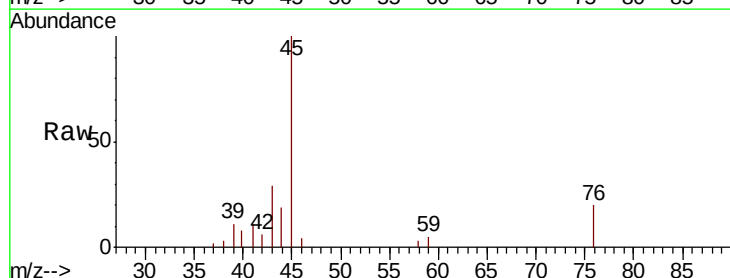
Acq: 15 Oct 2018 14:46

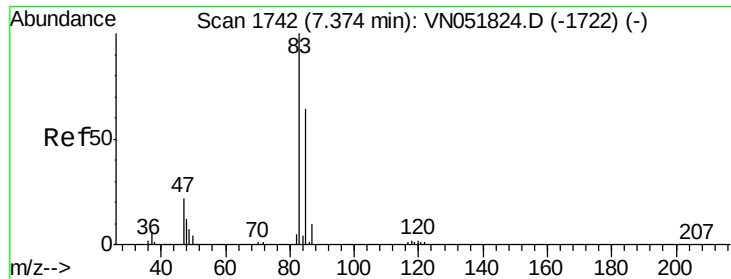
Tgt Ion: 76 Resp: 6417

Ion Ratio Lower Upper

76 100

78 0.0 6.7 10.1#

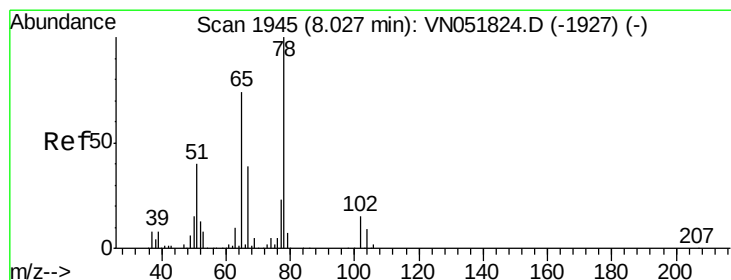
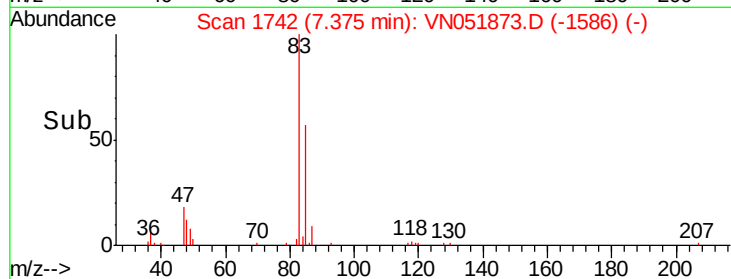
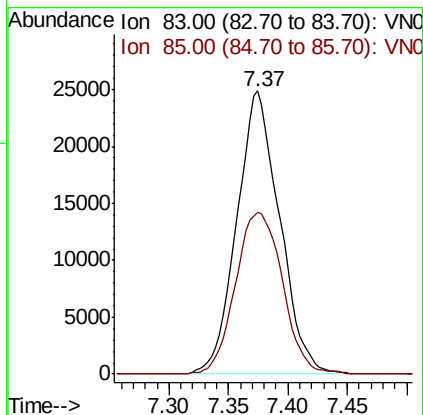
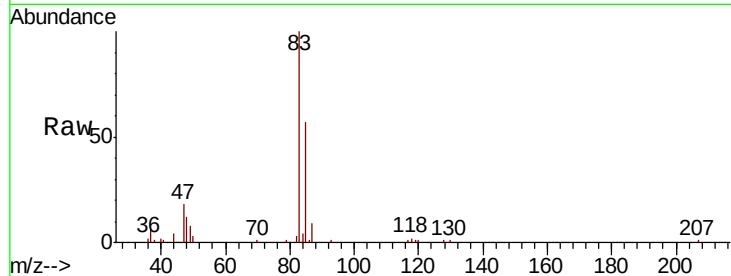




#25
 Chloroform
 Concen: 4.728 ug/l
 RT: 7.37 min Scan# 1742
 Delta R.T. 0.00 min
 Lab File: VN051873.D
 Acq: 15 Oct 2018 14:46

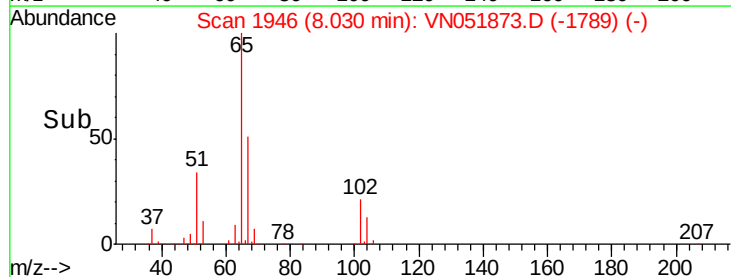
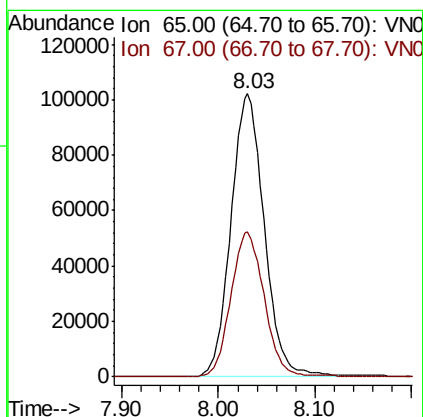
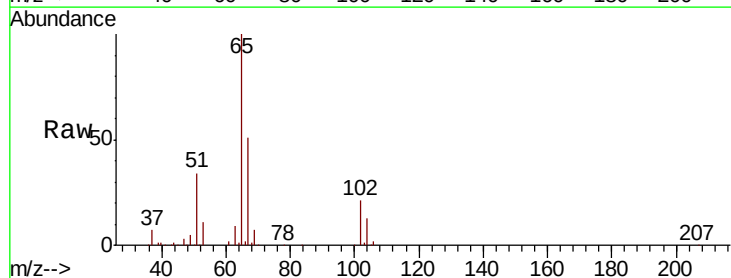
Instrument :
 MSVOA_N
 ClientSampled :

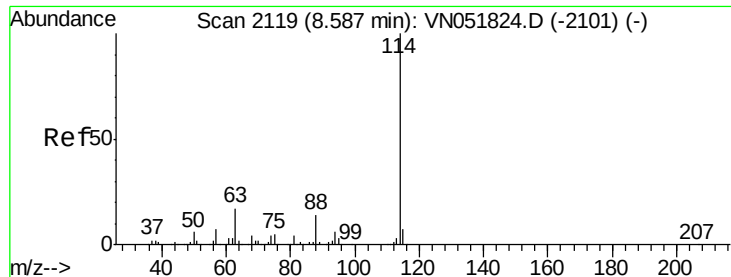
Tot Ion: 83 Resp: 62020
 Ion Ratio Lower Upper
 83 100
 85 57.1 54.6 82.0



#27
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051873.D
 Acq: 15 Oct 2018 14:46

Tgt Ion: 65 Resp: 244496
 Ion Ratio Lower Upper
 65 100
 67 51.1 41.8 62.8

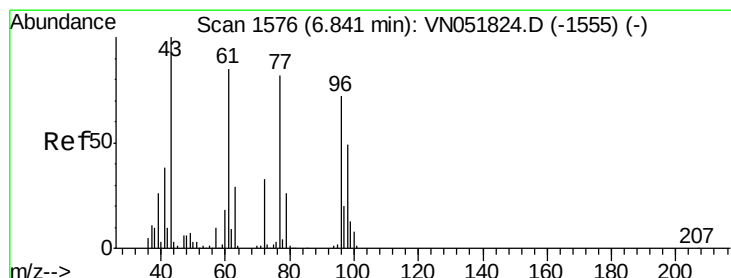
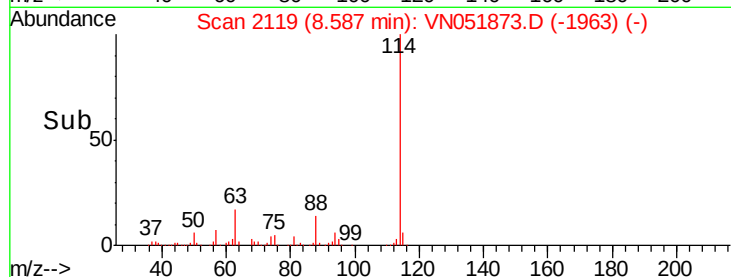
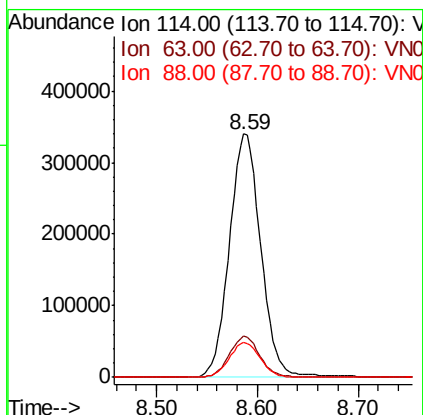
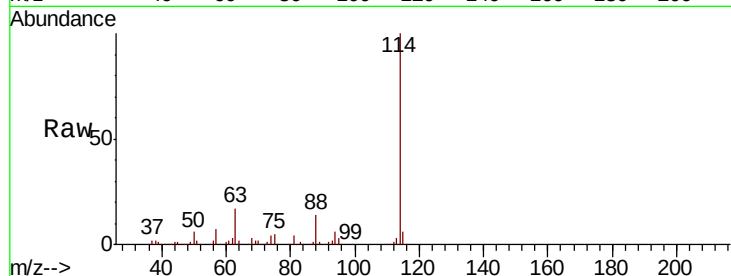




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051873.D
 Acq: 15 Oct 2018 14:46

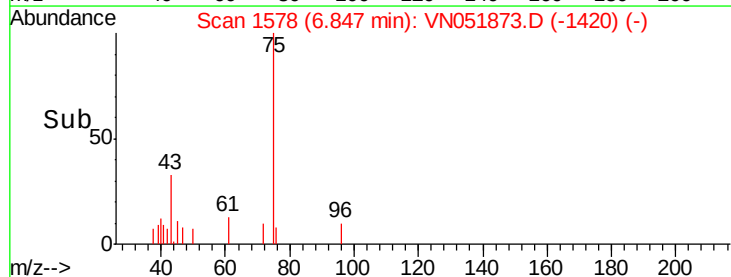
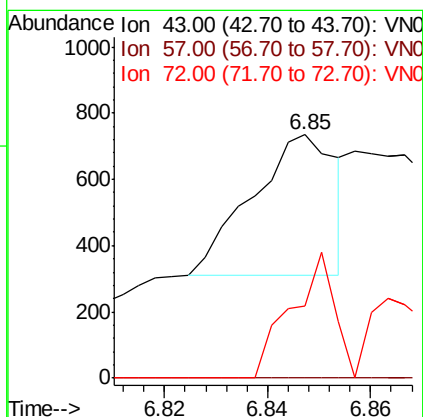
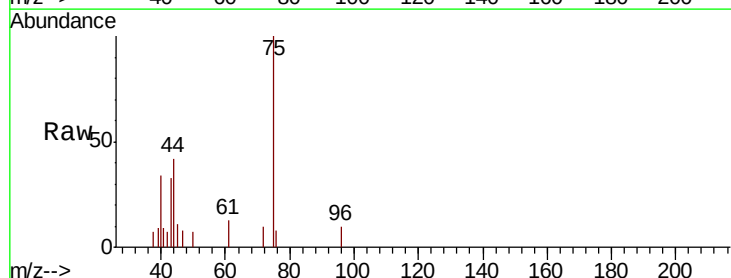
Instrument :
 MSVOA_N
 ClientSampled :

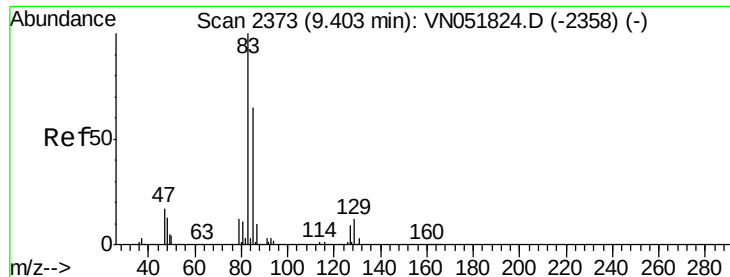
Tot Ion	Ratio	Lower	Upper
114	100		
63	16.5	16.2	24.2
88	14.2	12.2	18.4



#30
 2-Butanone
 Concen: 0.241 ug/l
 RT: 6.85 min Scan# 1578
 Delta R.T. 0.01 min
 Lab File: VN051873.D
 Acq: 15 Oct 2018 14:46

Tgt Ion	Ratio	Lower	Upper
43	100		
57	0.0	4.5	6.7#
72	45.8	21.5	32.3#





#41

Bromodichloromethane

Concen: 0.404 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN051873.D

Acq: 15 Oct 2018 14:46

Instrument :

MSVOA_N

ClientSampled :

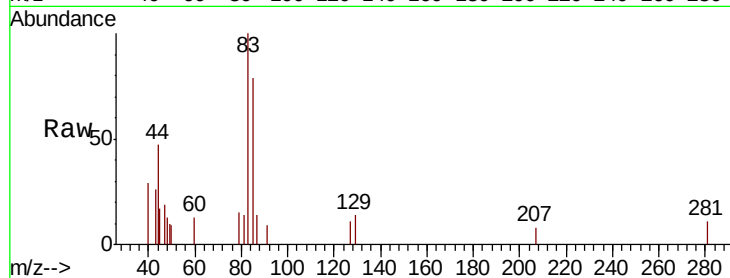
Tot Ion: 83 Resp: 4098

Ion Ratio Lower Upper

83 100

85 79.3 55.7 83.5

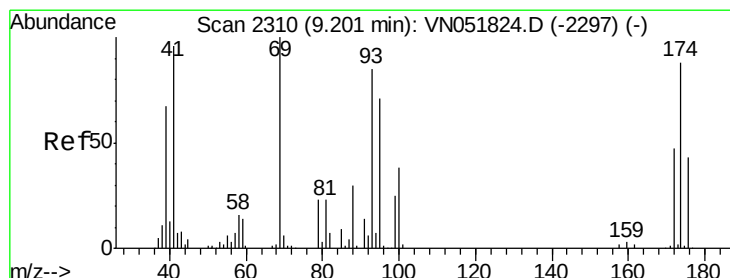
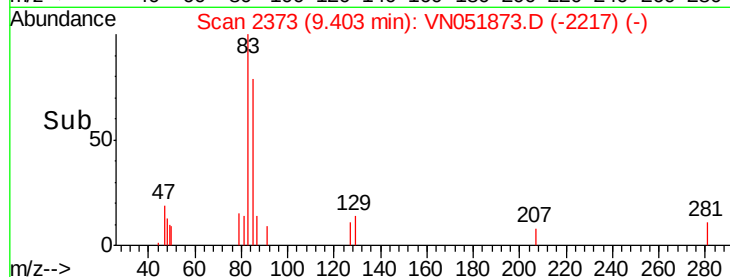
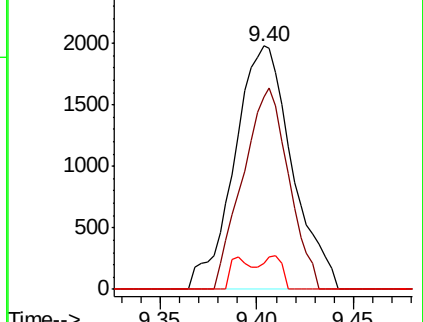
127 10.9 8.2 12.4



Abundance Ion 83.00 (82.70 to 83.70): VN051824.D (-2358) (-)

Ion 85.00 (84.70 to 85.70): VN051824.D (-2358) (-)

Ion 127.00 (126.70 to 127.70): VN051824.D (-2358) (-)



#45

1,4-Dioxane

Concen: 0.449 ug/l

RT: 8.74 min Scan# 2167

Delta R.T. -0.46 min

Lab File: VN051873.D

Acq: 15 Oct 2018 14:46

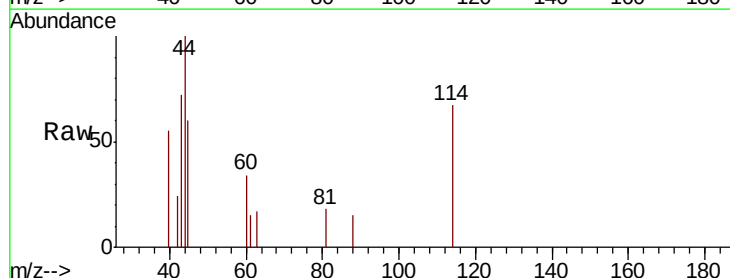
Tgt Ion: 88 Resp: 31

Ion Ratio Lower Upper

88 100

43 219.4 26.2 39.2#

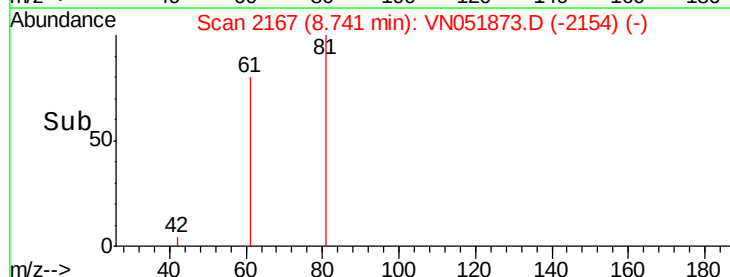
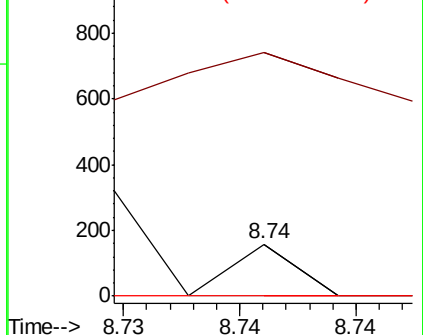
58 0.0 65.6 98.4#

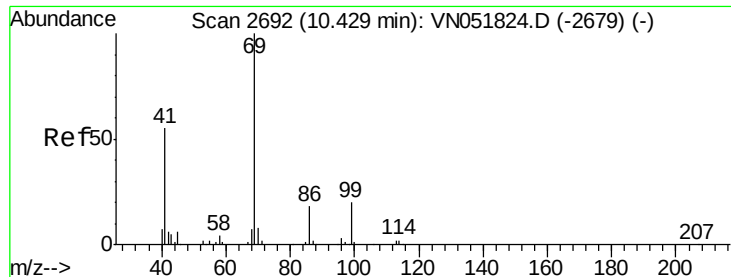


Abundance Ion 88.00 (87.70 to 88.70): VN051824.D (-2297) (-)

Ion 43.00 (42.70 to 43.70): VN051824.D (-2297) (-)

Ion 58.00 (57.70 to 58.70): VN051824.D (-2297) (-)





#51

Ethyl methacrylate

Concen: 0.296 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.33 min

Lab File: VN051873.D

Acq: 15 Oct 2018 14:46

Instrument :

MSVOA_N

ClientSampleId :

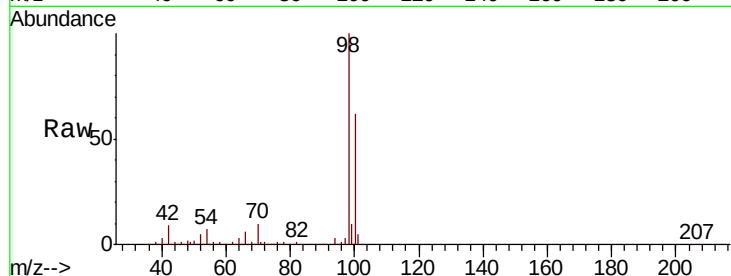
Tot Ion: 69 Resp: 2294

Ion Ratio Lower Upper

69 100

41 50.1 34.4 103.1

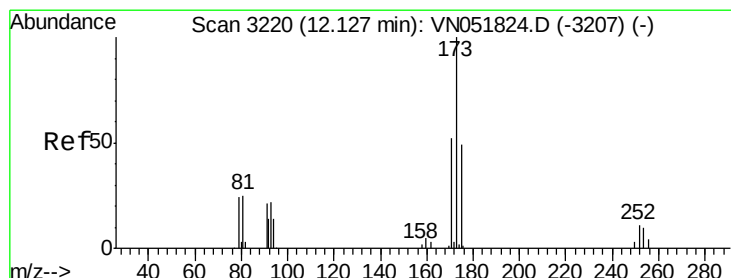
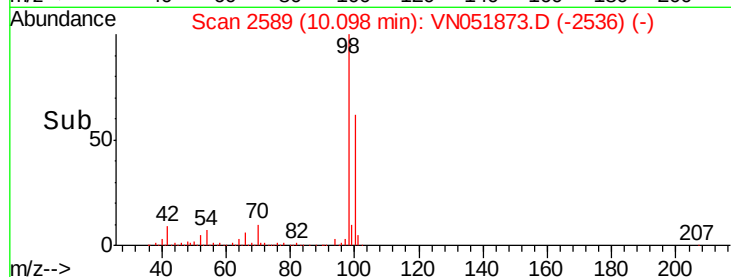
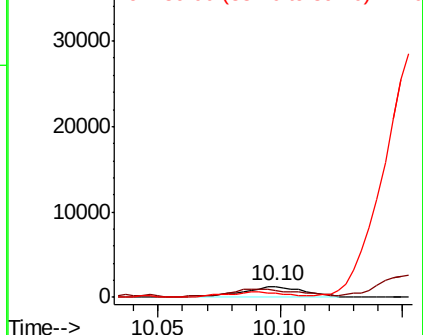
39 39.6 16.3 48.8



Abundance Ion 69.00 (68.70 to 69.70): VN051824.D (-2679) (-)

Ion 41.00 (40.70 to 41.70): VN051824.D (-2679) (-)

Ion 39.00 (38.70 to 39.70): VN051824.D (-2679) (-)



#56

Bromoform

Concen: 0.332 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN051873.D

Acq: 15 Oct 2018 14:46

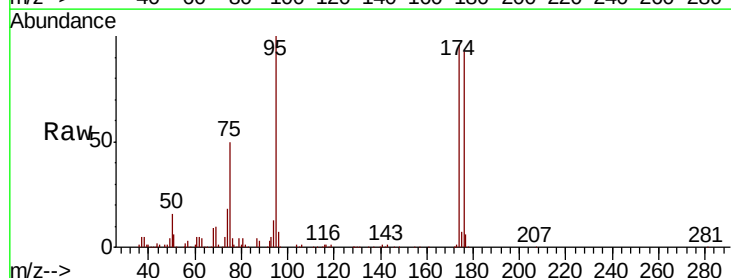
Tgt Ion: 173 Resp: 1838

Ion Ratio Lower Upper

173 100

175 756.4 35.8 53.8#

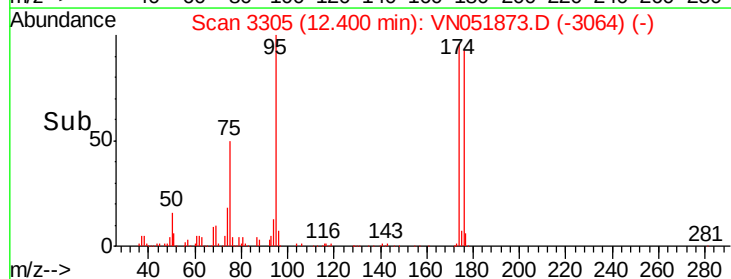
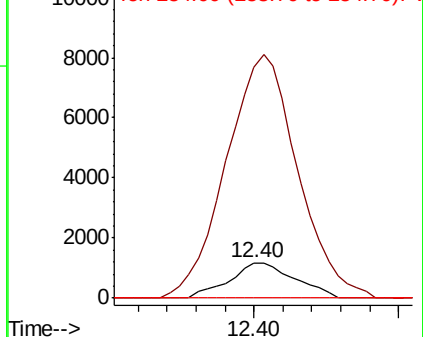
254 0.0 8.6 13.0#

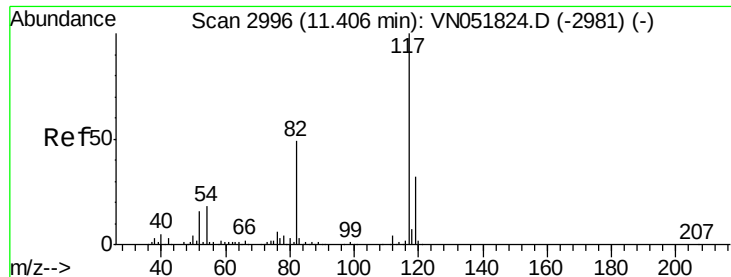


Abundance Ion 173.00 (172.70 to 173.70): VN051824.D (-3207) (-)

Ion 175.00 (174.70 to 175.70): VN051824.D (-3207) (-)

Ion 254.00 (253.70 to 254.70): VN051824.D (-3207) (-)

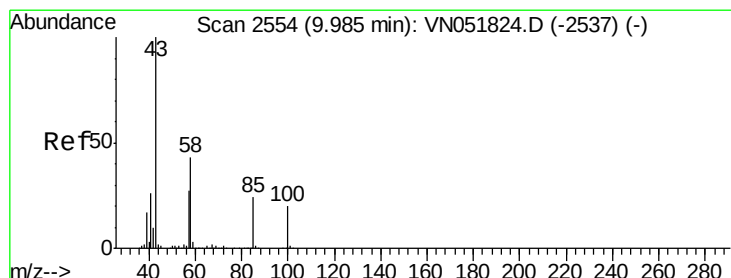
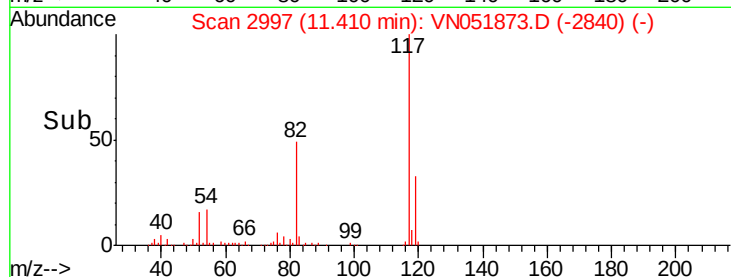
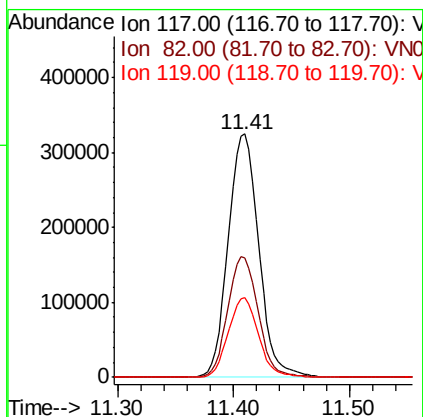
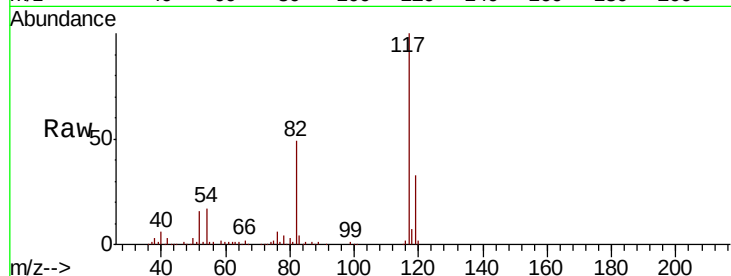




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051873.D
Acq: 15 Oct 2018 14:46

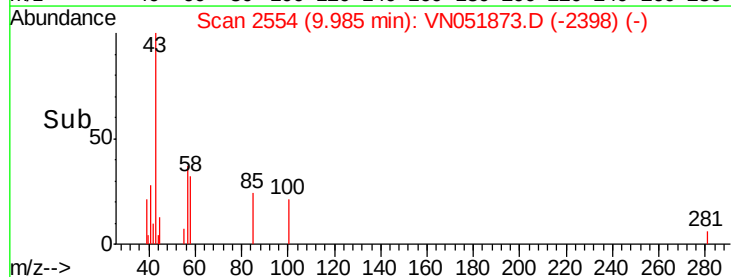
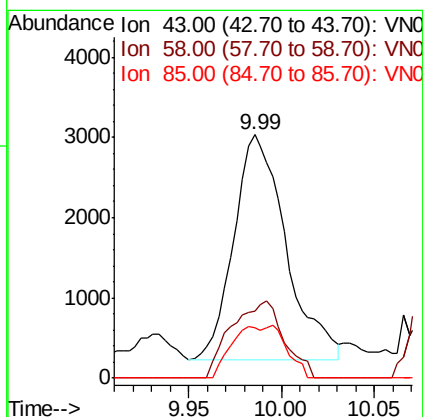
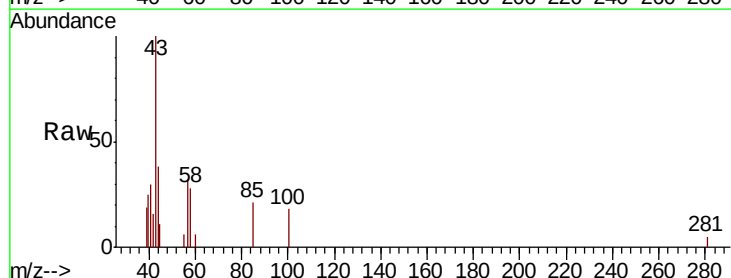
Instrument :
MSVOA_N
ClientSampled :

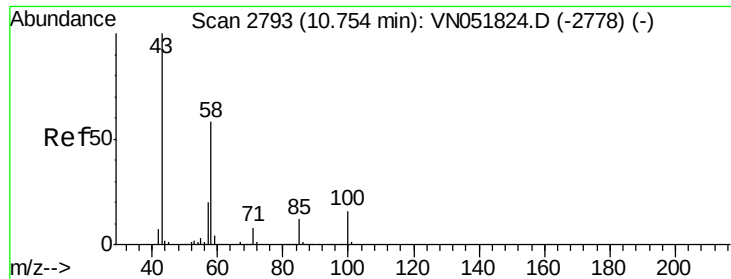
Tot Ion	Ratio	Lower	Upper
117	100		
82	49.5	44.1	66.1
119	32.4	25.8	38.8



#58
4-Methyl-2-Pentanone
Concen: 1.385 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051873.D
Acq: 15 Oct 2018 14:46

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.7	29.3	43.9
85	13.7	12.6	18.8

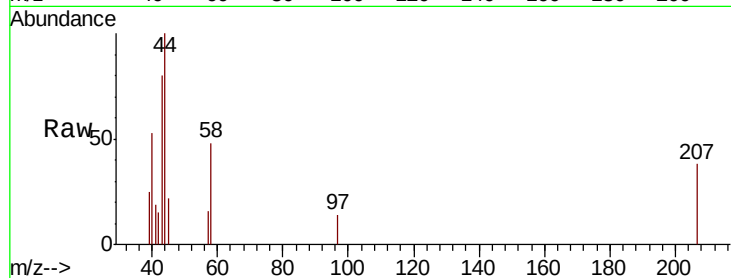




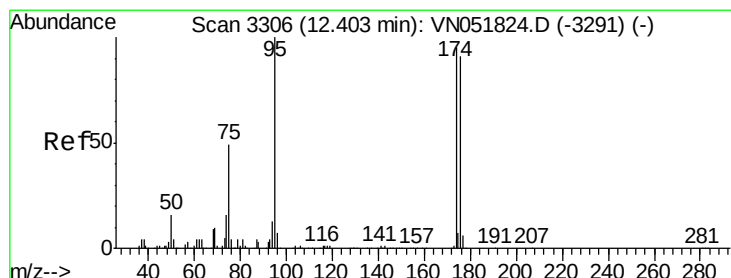
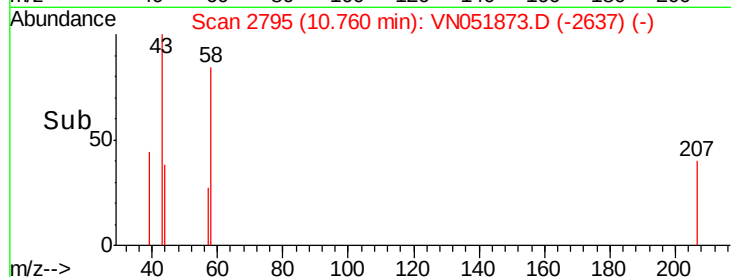
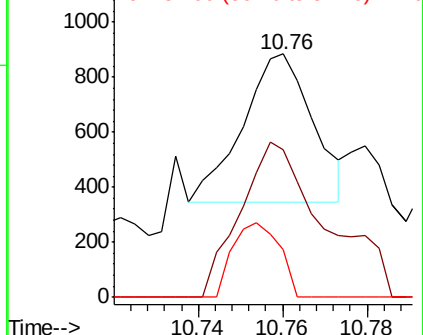
#59
2-Hexanone
Concen: 0.231 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN051873.D
Acq: 15 Oct 2018 14:46

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 618
Ion Ratio Lower Upper
43 100
58 115.0 41.3 61.9#
57 34.0 13.4 20.0#

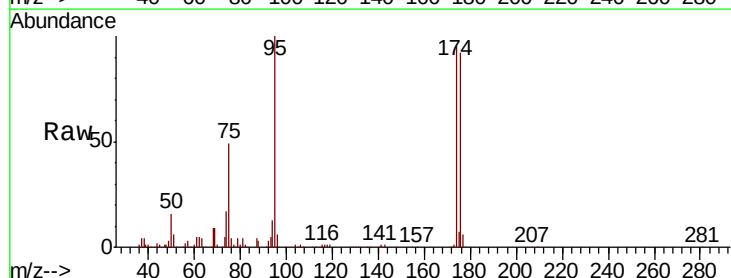


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0
Ion 57.00 (56.70 to 57.70): VN0

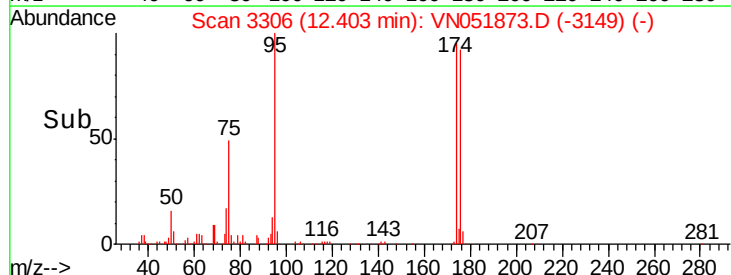
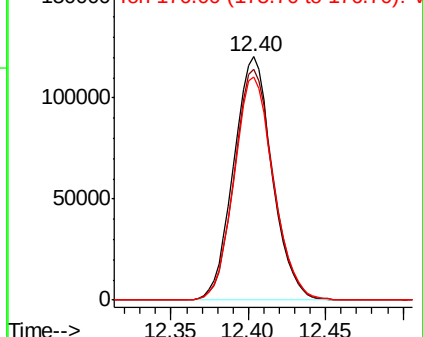


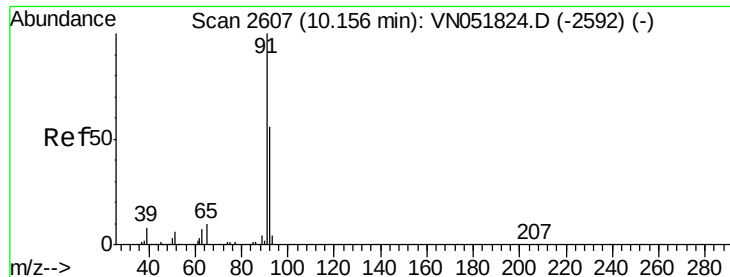
#60
4-Bromofluorobenzene
Concen: 0.231 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051873.D
Acq: 15 Oct 2018 14:46

Tgt Ion: 95 Resp: 207932
Ion Ratio Lower Upper
95 100
174 95.9 73.5 110.3
176 94.0 70.2 105.2



Abundance Ion 95.00 (94.70 to 95.70): VN0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V





#62

Toluene

Concen: 24.022 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN051873.D

Acq: 15 Oct 2018 14:46

Instrument :

MSVOA_N

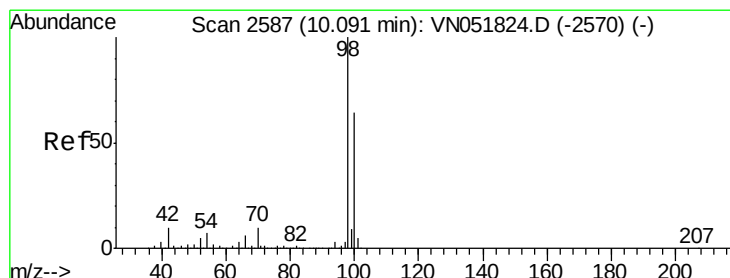
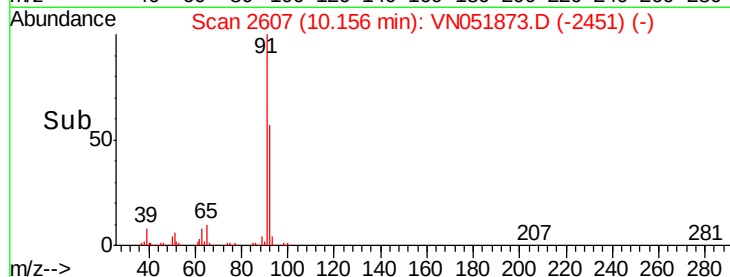
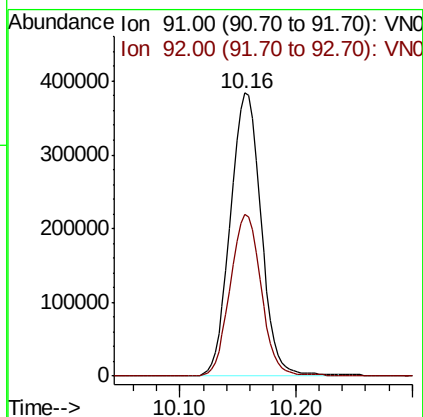
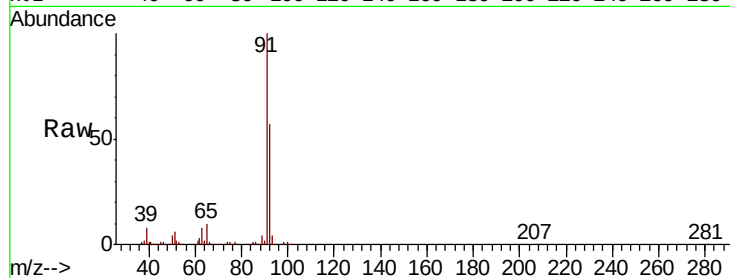
ClientSampleId :

Tot Ion: 91 Resp: 705969

Ion Ratio Lower Upper

91 100

92 57.2 44.6 66.8



#63

Toluene-d8

Concen: 24.022 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051873.D

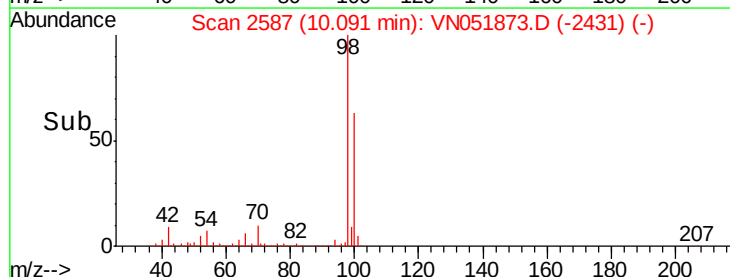
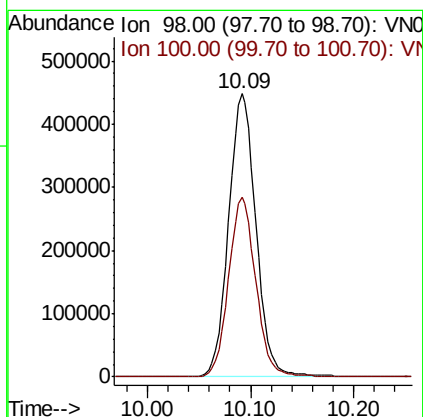
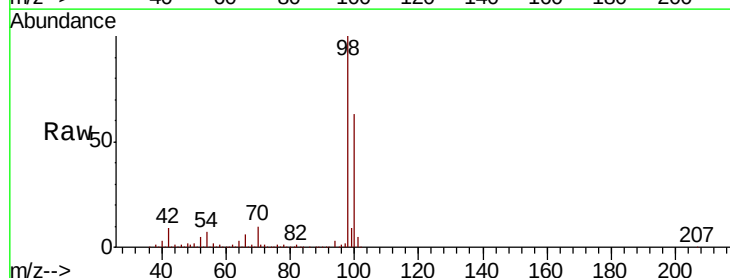
Acq: 15 Oct 2018 14:46

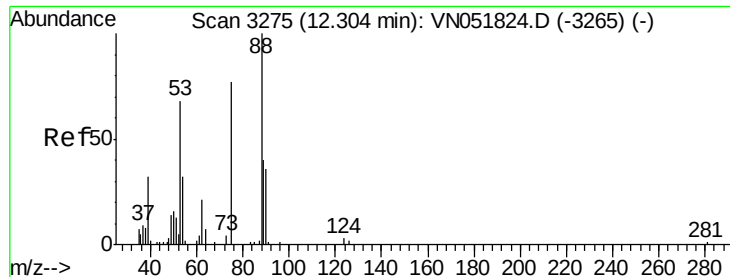
Tgt Ion: 98 Resp: 829811

Ion Ratio Lower Upper

98 100

100 62.9 50.8 76.2





#77

t-1,4-Dichloro-2-butene

Concen: 59.946 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051873.D

Acq: 15 Oct 2018 14:46

Instrument :

MSVOA_N

ClientSampleId :

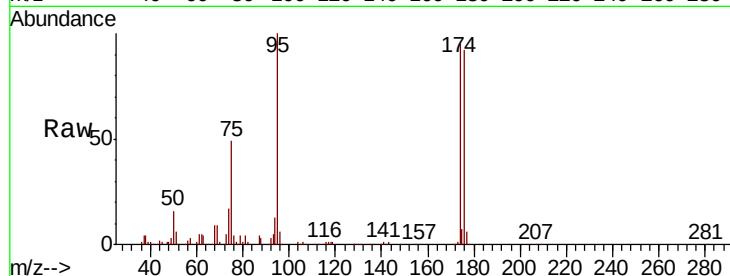
Tot Ion: 75 Resp: 106626

Ion Ratio Lower Upper

75 100

53 0.0 46.3 138.9#

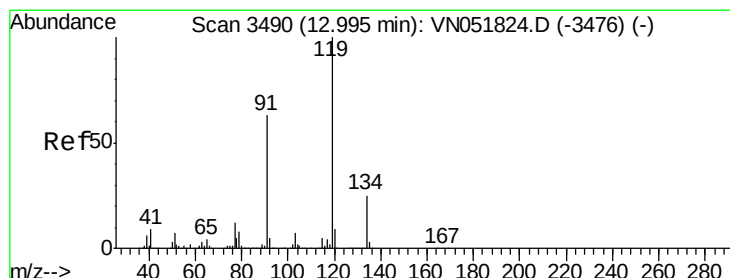
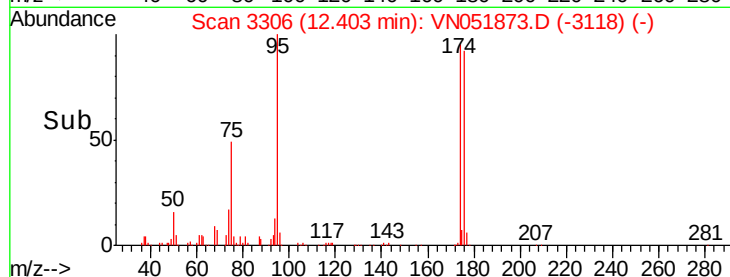
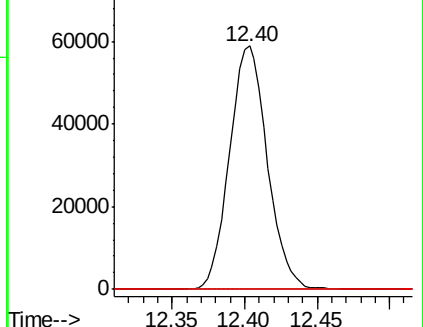
89 0.0 24.6 73.8#



Abundance Ion 75.00 (74.70 to 75.70): VN051873.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN051873.D (-3306) (-)

Ion 89.00 (88.70 to 89.70): VN051873.D (-3306) (-)



#79

tert-butylbenzene

Concen: 0.675 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.29 min

Lab File: VN051873.D

Acq: 15 Oct 2018 14:46

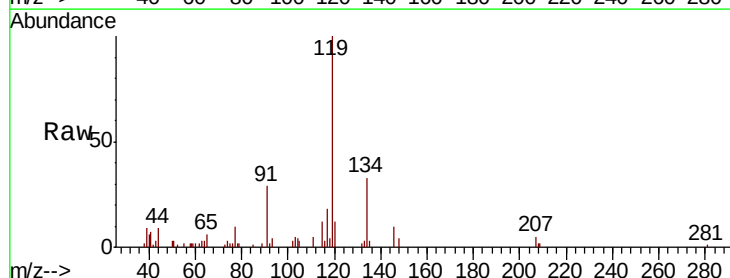
Tgt Ion: 119 Resp: 17783

Ion Ratio Lower Upper

119 100

91 24.4 0.0 131.6

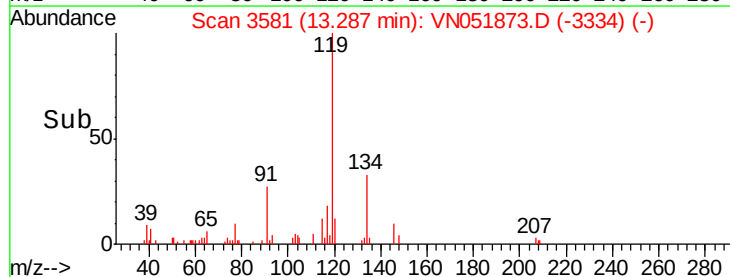
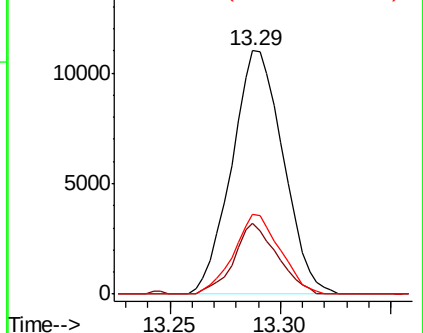
134 29.5 0.0 46.2

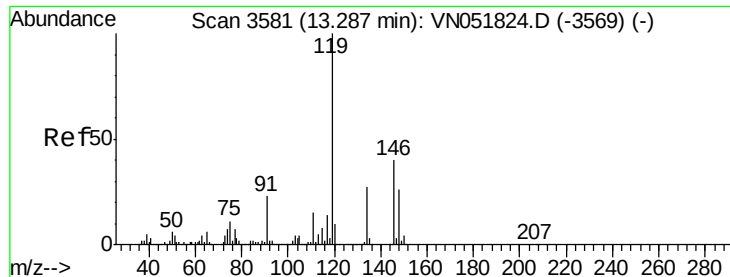


Abundance Ion 119.00 (118.70 to 119.70): VN051873.D (-3581) (-)

Ion 91.00 (90.70 to 91.70): VN051873.D (-3581) (-)

Ion 134.00 (133.70 to 134.70): VN051873.D (-3581) (-)

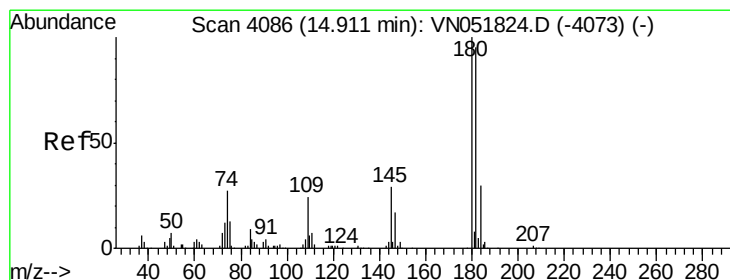
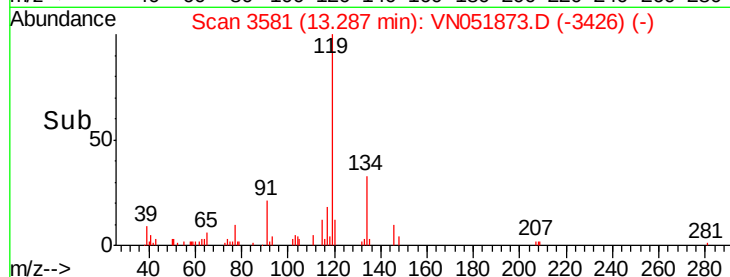
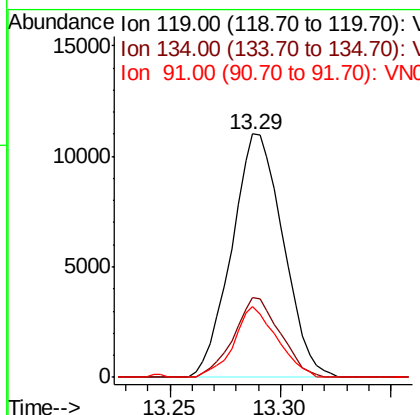
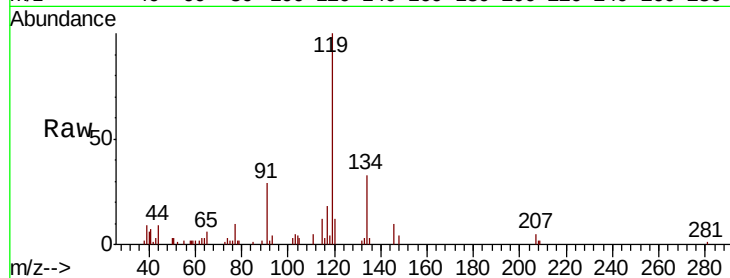




#82
 p-Isopropyltoluene
 Concen: 0.577 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN051873.D
 Acq: 15 Oct 2018 14:46

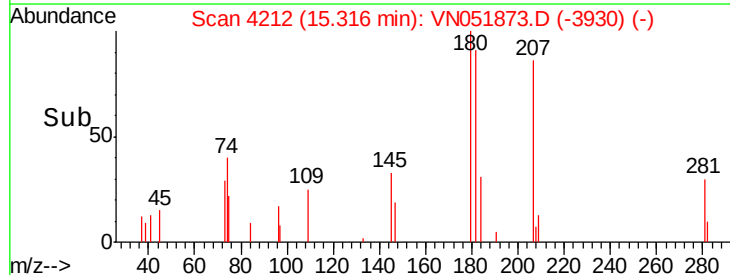
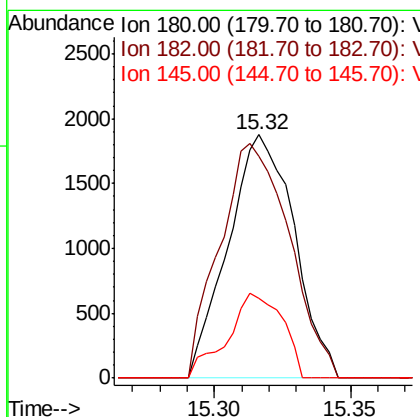
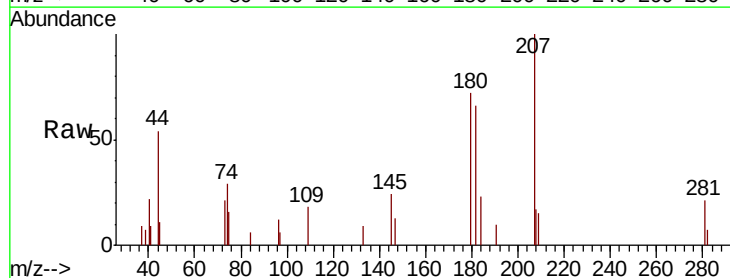
Instrument :
 MSVOA_N
 ClientSampled :

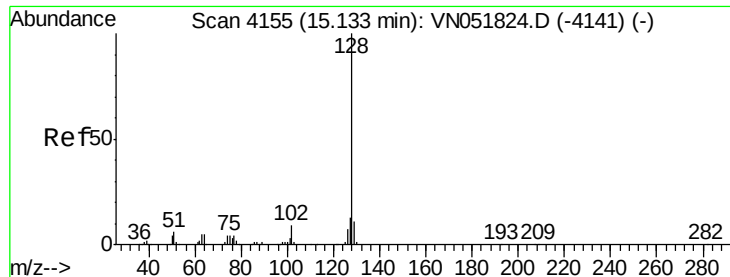
Tot Ion	Ratio	Lower	Upper
119	100		
134	29.5	0.0	53.6
91	24.4	0.0	52.0



#89
 1,2,4-Trichlorobenzene
 Concen: 8.054 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.41 min
 Lab File: VN051873.D
 Acq: 15 Oct 2018 14:46

Tgt Ion	Ratio	Lower	Upper
180	100		
182	102.1	77.7	116.5
145	28.9	23.4	35.2





#91

Naphthalene

Concen: 8.946 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN051873.D

Acq: 15 Oct 2018 14:46

Instrument :

MSVOA_N

ClientSampleId :

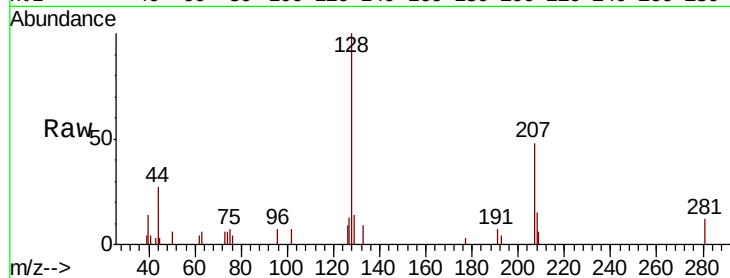
Tot Ion:128 Resp: 8255

Ion Ratio Lower Upper

128 100

127 13.4 10.1 15.1

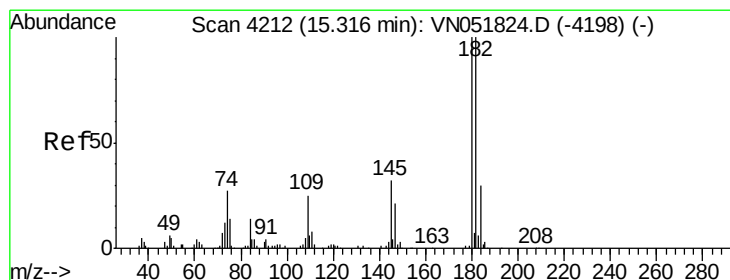
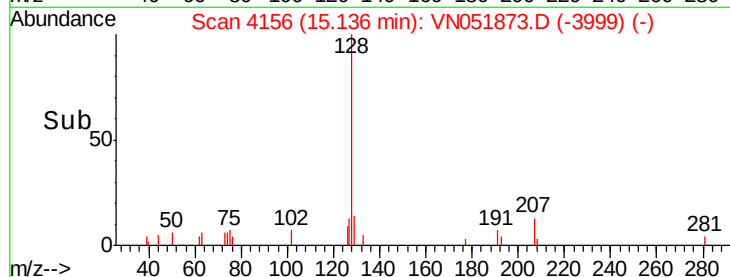
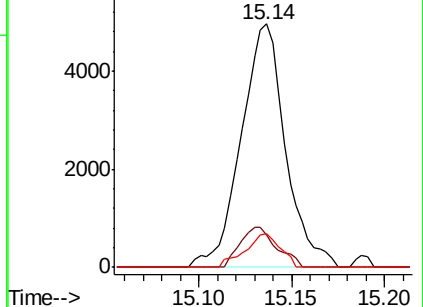
129 10.7 8.4 12.6



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



#92

1,2,3-Trichlorobenzene

Concen: 0.473 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN051873.D

Acq: 15 Oct 2018 14:46

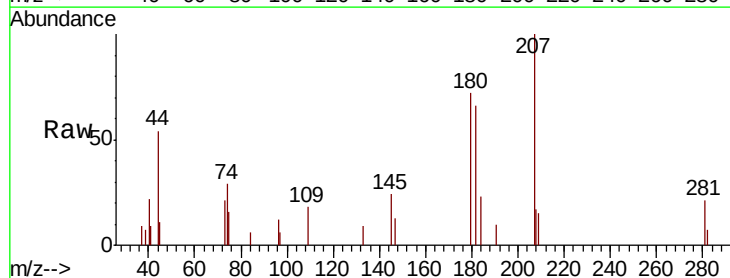
Tgt Ion:180 Resp: 3154

Ion Ratio Lower Upper

180 100

182 102.1 0.0 198.0

145 28.9 0.0 36.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

