

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083018\
 Data File : VN050973.D
 Acq On : 30 Aug 2018 19:59
 Operator : MD\SY
 Sample : J4742-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 2-AVE-19

Quant Time: Aug 31 01:41:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	107375	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	565686	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	440305	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.03	65	214150	31.25	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.17%
60) 4-Bromofluorobenzene	12.40	95	139129	21.25	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	70.83%
63) Toluene-d8	10.09	98	629590	30.66	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.20%

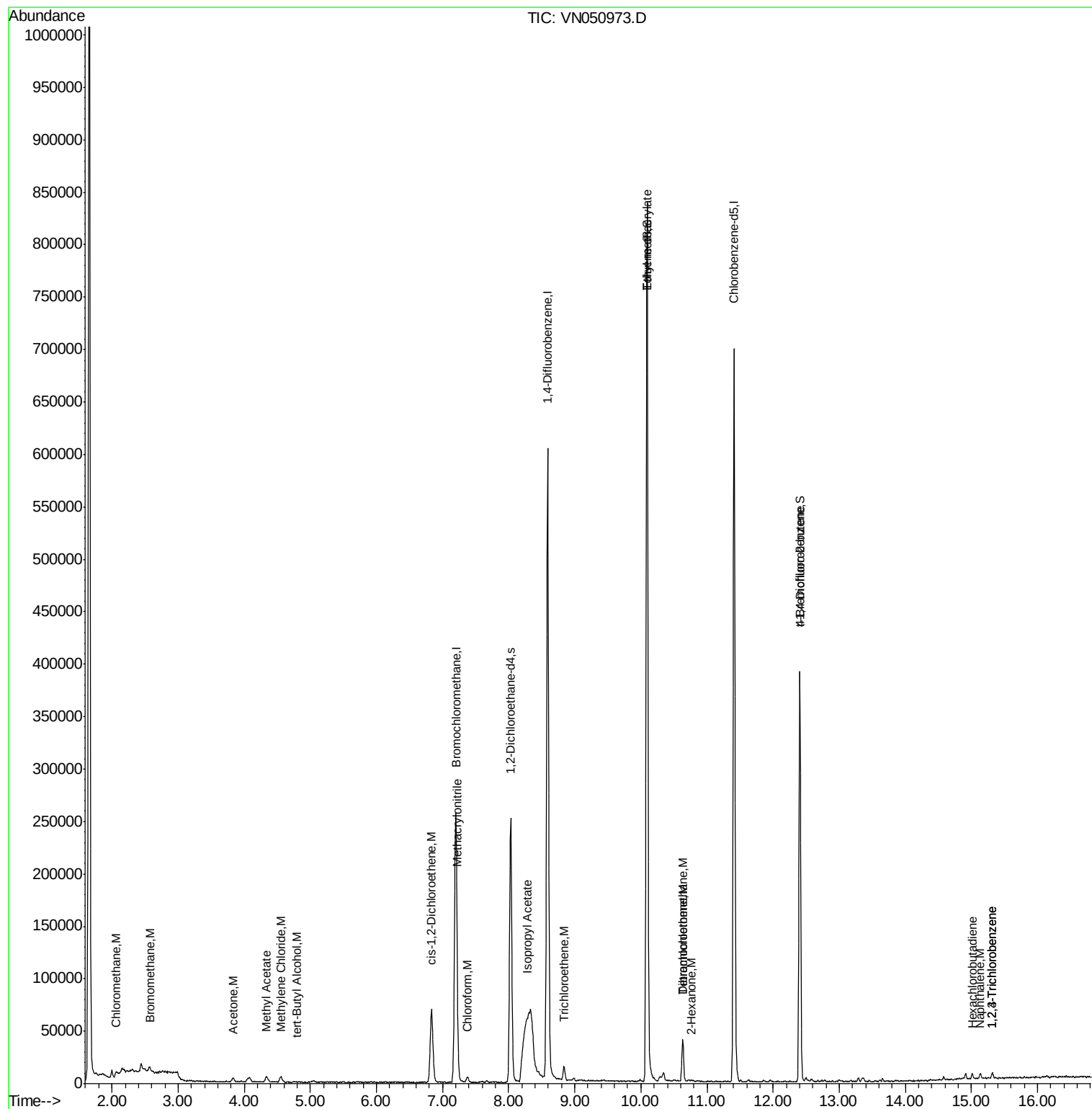
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	2.06	50	2665	0.34	ug/l #	80
5) Bromomethane	2.57	94	3112	0.66	ug/l	99
12) Methyl Acetate	4.34	43	9964	1.49	ug/l #	89
15) Acetone	3.82	58	1116	1.92	ug/l #	55
18) Methylene Chloride	4.55	84	1654	0.24	ug/l #	78
22) cis-1,2-Dichloroethene	6.83	96	48685	6.97	ug/l	91
23) tert-Butyl Alcohol	4.79	59	109	0.23	ug/l #	100
25) Chloroform	7.38	83	5822	0.50	ug/l	98
35) Methacrylonitrile	7.23	41	653	0.23	ug/l #	48
37) Trichloroethene	8.84	130	5281	0.77	ug/l	95
44) Isopropyl Acetate	8.27	43	87927	9.34	ug/l #	56
51) Ethyl methacrylate	10.10	69	2109	0.29	ug/l	87
53) Dibromochloromethane	10.63	129	8975	1.32	ug/l #	10
59) 2-Hexanone	10.76	43	966	0.29	ug/l #	74
61) Tetrachloroethene	10.63	164	10006	1.82	ug/l	93
77) t-1,4-Dichloro-2-butene	12.40	75	63396	38.33	ug/l #	13
89) 1,2,4-Trichlorobenzene	15.31	180	2261	0.47	ug/l	99
90) Hexachlorobutadiene	15.01	225	1295	0.39	ug/l	90
91) Naphthalene	15.13	128	4688	8.89	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	2261	0.47	ug/l	98

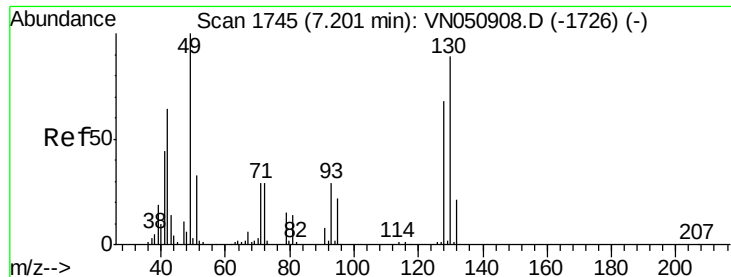
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 29 01:38:44 2018
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#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1745

Delta R.T. 0.00 min

Lab File: VN050973.D

Acq: 30 Aug 2018 19:59

Instrument :

MSVOA_N

ClientSampled :

2-AVE-19

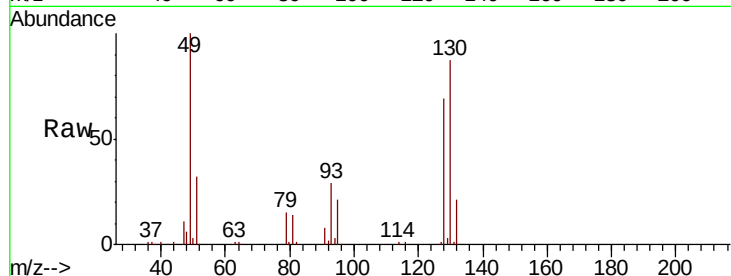
Tot Ion:128 Resp: 107375

Ion Ratio Lower Upper

128 100

49 152.5 0.0 380.3

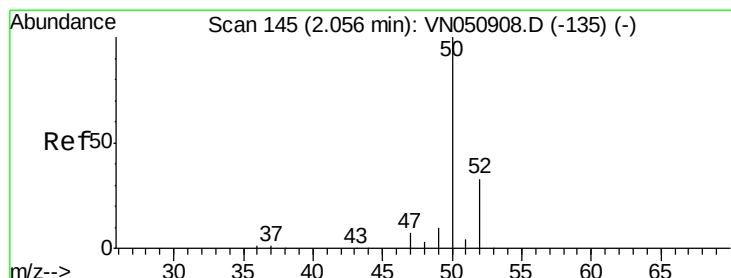
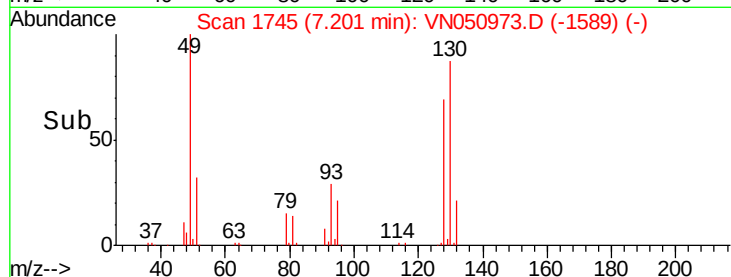
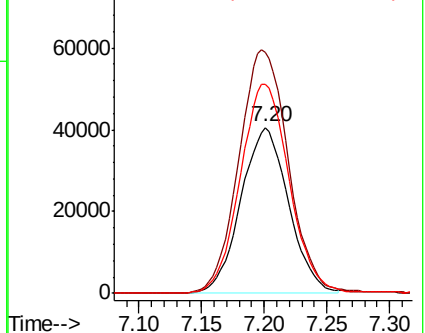
130 129.9 0.0 325.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.34 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050973.D

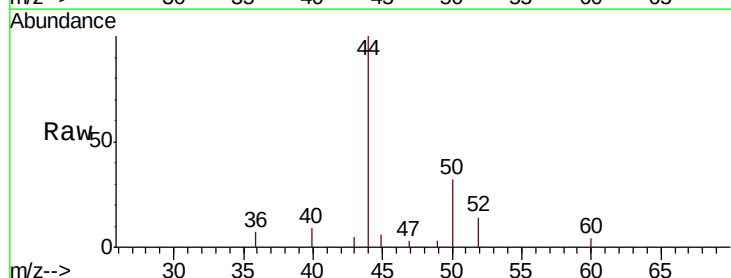
Acq: 30 Aug 2018 19:59

Tgt Ion: 50 Resp: 2665

Ion Ratio Lower Upper

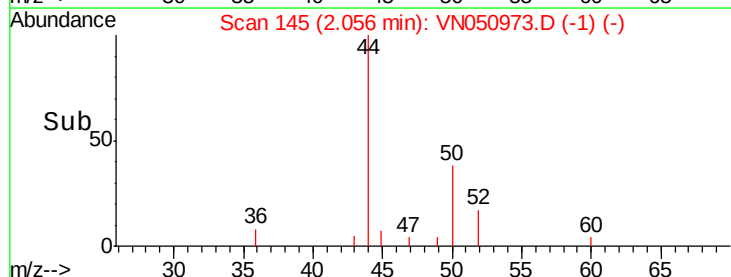
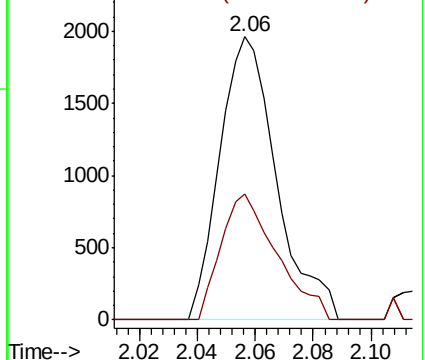
50 100

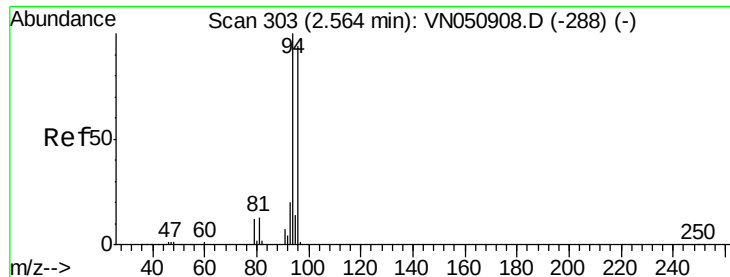
52 44.3 26.2 39.4#



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#5

Bromomethane

Concen: 0.66 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN050973.D

Acq: 30 Aug 2018 19:59

Instrument :

MSVOA_N

ClientSampled :

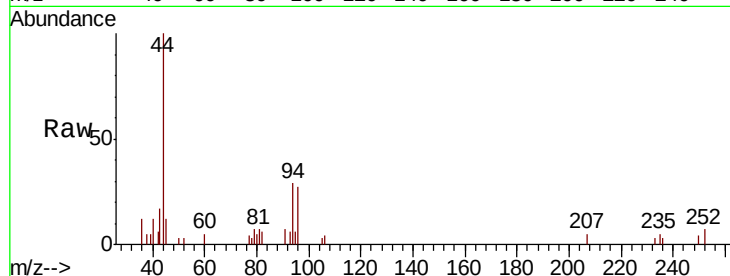
2-AVE-19

Tot Ion: 94 Resp: 3112

Ion Ratio Lower Upper

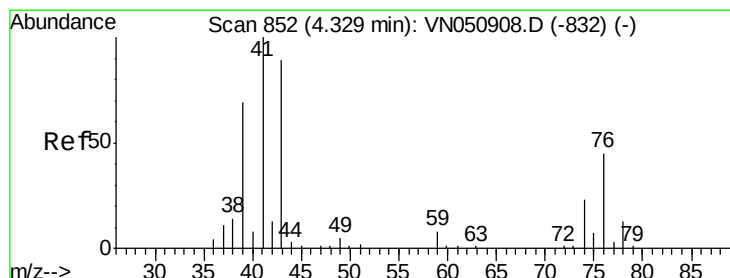
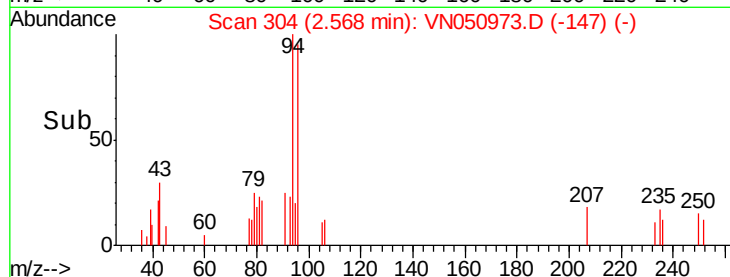
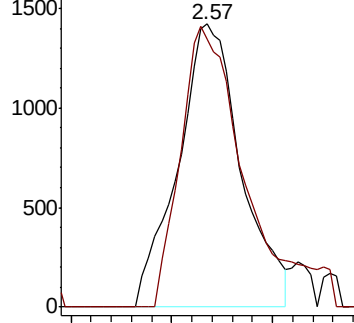
94 100

96 94.6 74.9 112.3



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#12

Methyl Acetate

Concen: 1.49 ug/l

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN050973.D

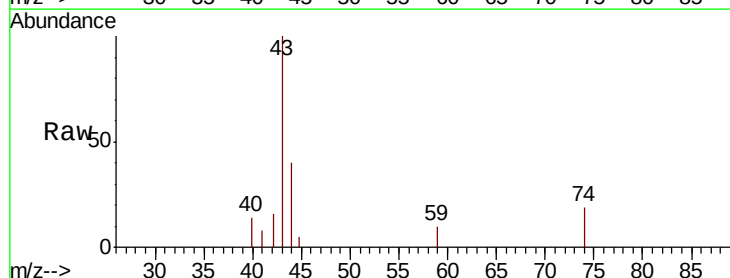
Acq: 30 Aug 2018 19:59

Tgt Ion: 43 Resp: 9964

Ion Ratio Lower Upper

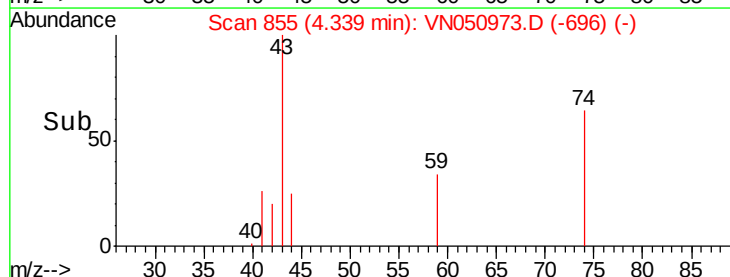
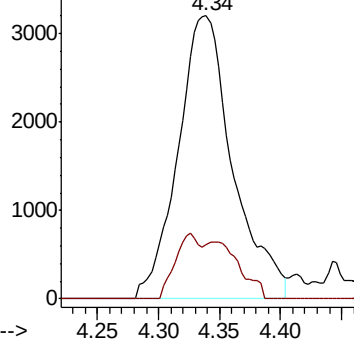
43 100

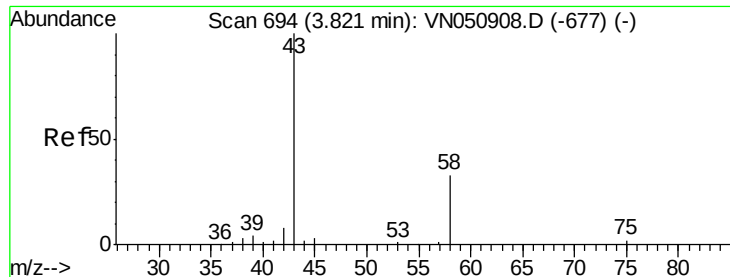
74 20.2 20.6 31.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#15

Acetone

Concen: 1.92 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050973.D

Acq: 30 Aug 2018 19:59

Instrument :

MSVOA_N

ClientSampled :

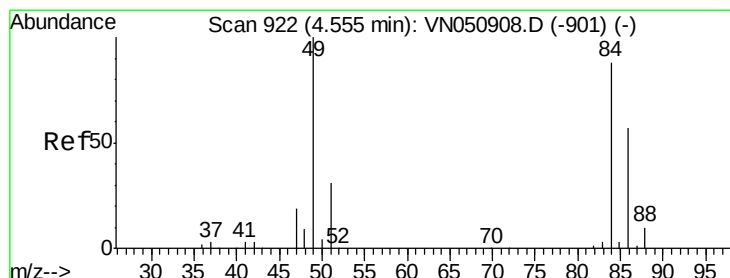
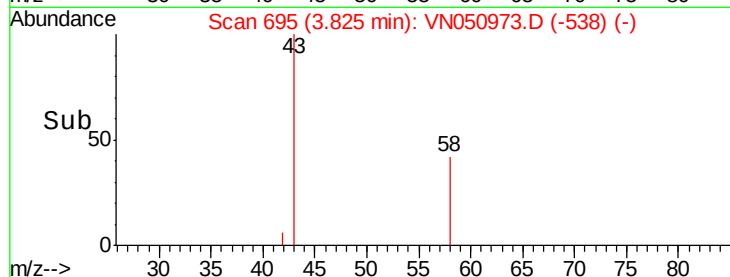
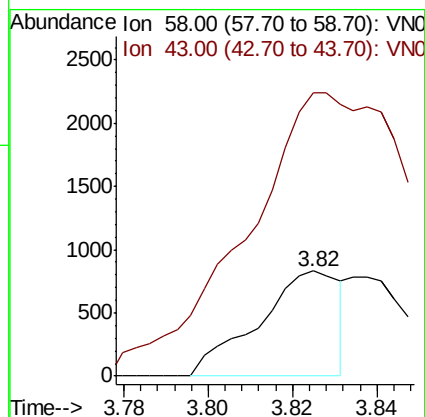
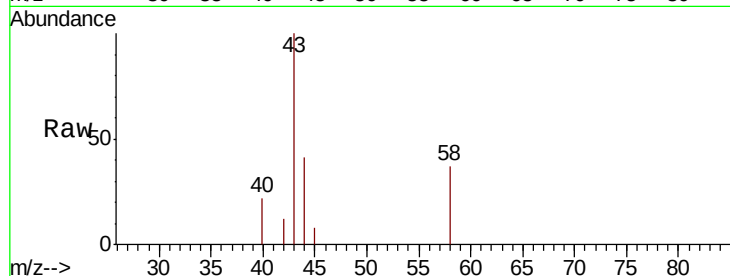
2-AVE-19

Tot Ion: 58 Resp: 1116

Ion Ratio Lower Upper

58 100

43 211.7 239.4 359.0#



#18

Methylene Chloride

Concen: 0.24 ug/l

RT: 4.55 min Scan# 919

Delta R.T. -0.01 min

Lab File: VN050973.D

Acq: 30 Aug 2018 19:59

Tgt Ion: 84 Resp: 1654

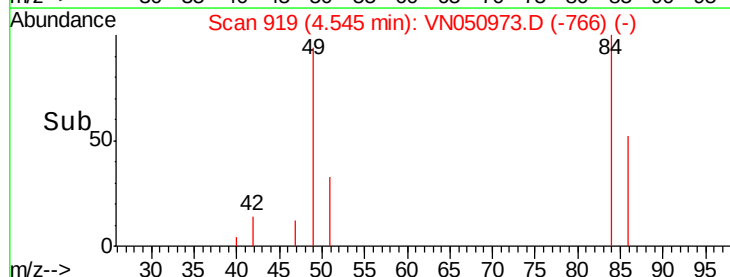
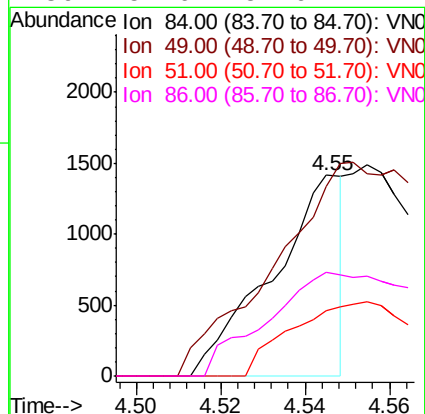
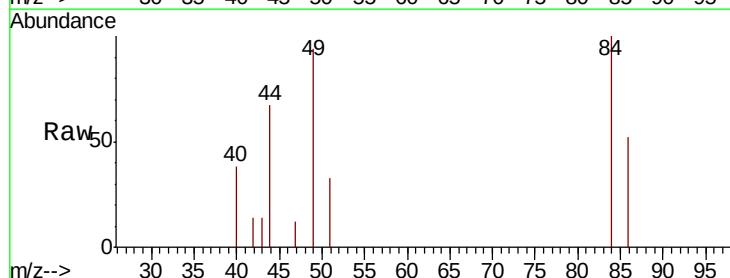
Ion Ratio Lower Upper

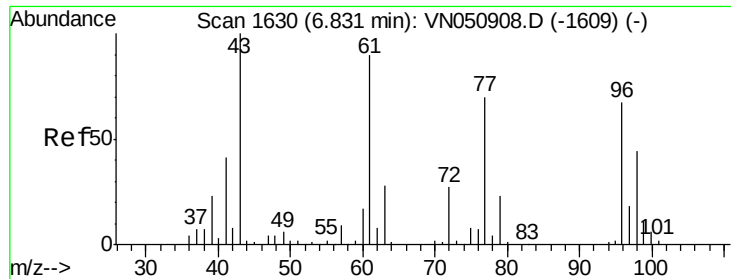
84 100

49 79.9 90.6 135.8#

51 32.6 28.4 42.6

86 51.6 51.6 77.4#

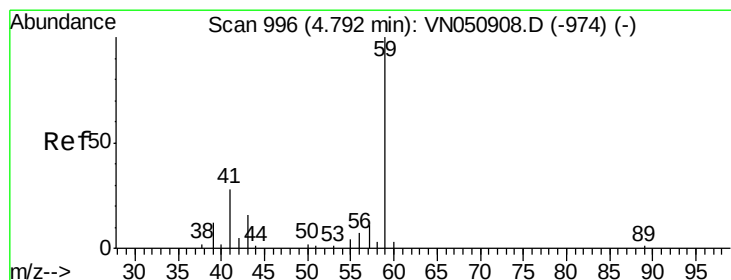
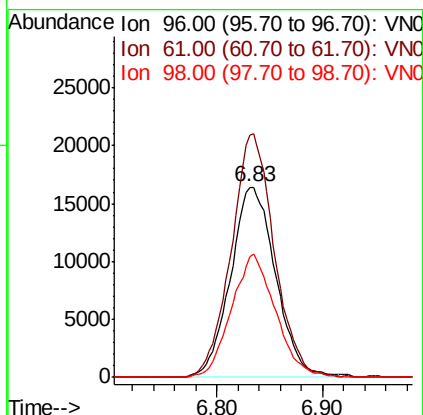
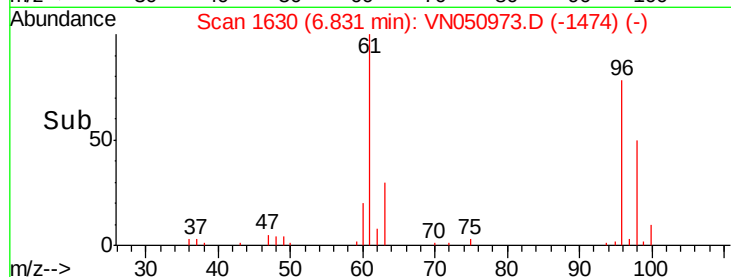
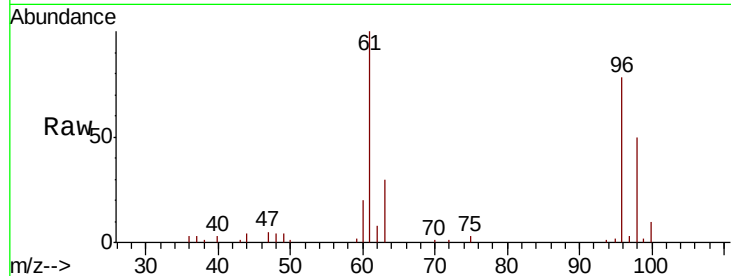




#22
 cis-1,2-Dichloroethene
 Concen: 6.97 ug/l
 RT: 6.83 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VN050973.D
 Acq: 30 Aug 2018 19:59

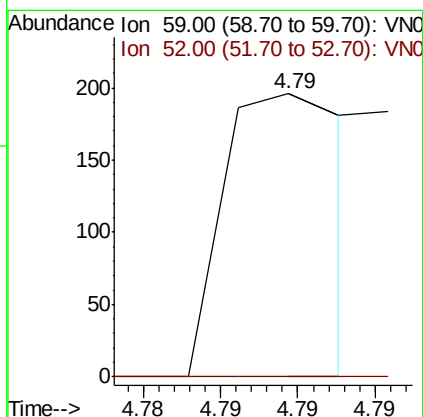
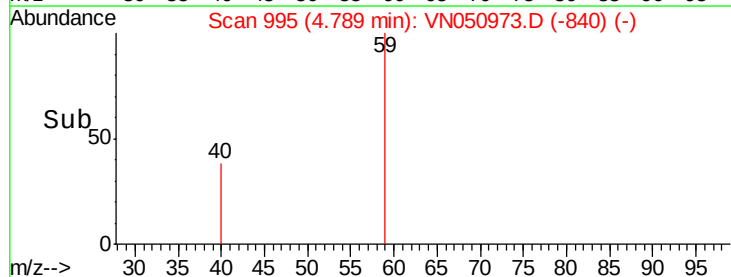
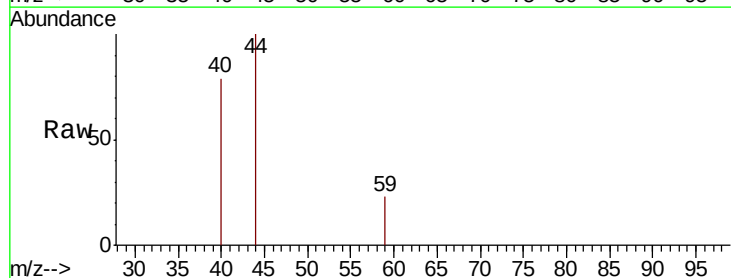
Instrument :
 MSVOA_N
 ClientSampled :
 2-AVE-19

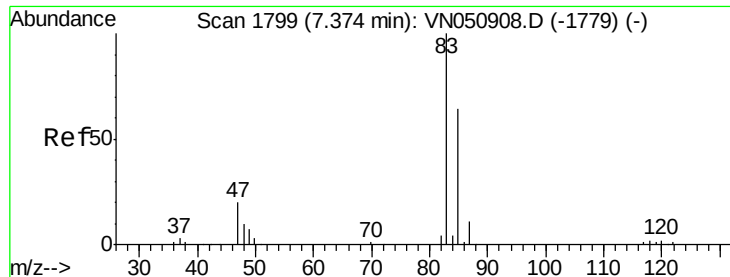
Tot Ion: 96 Resp: 48685
 Ion Ratio Lower Upper
 96 100
 61 122.3 110.0 165.0
 98 63.2 51.7 77.5



#23
 tert-Butyl Alcohol
 Concen: 0.23 ug/l
 RT: 4.79 min Scan# 995
 Delta R.T. -0.00 min
 Lab File: VN050973.D
 Acq: 30 Aug 2018 19:59

Tgt Ion: 59 Resp: 109
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.1 0.1#

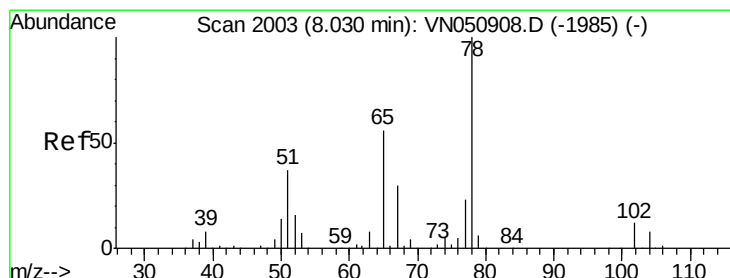
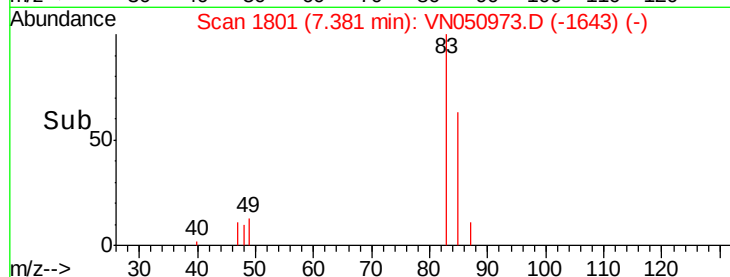
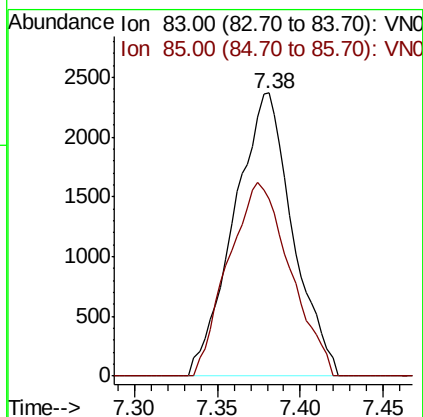
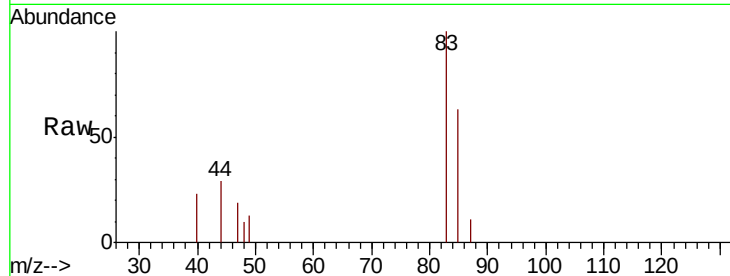




#25
Chloroform
Concen: 0.50 ug/l
RT: 7.38 min Scan# 1801
Delta R.T. 0.01 min
Lab File: VN050973.D
Acq: 30 Aug 2018 19:59

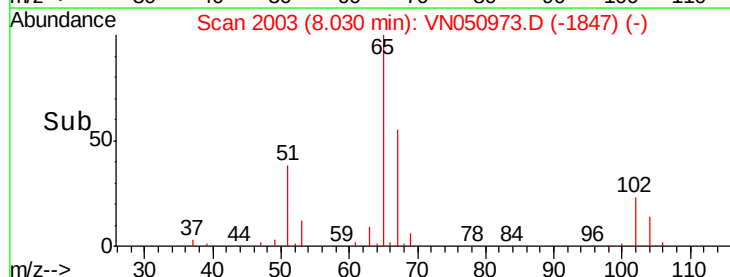
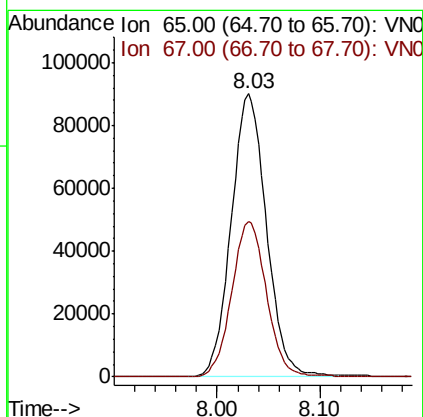
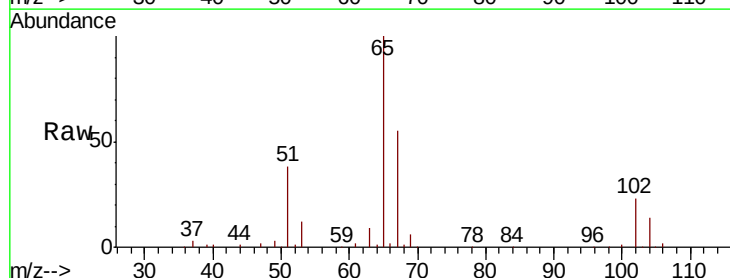
Instrument :
MSVOA_N
ClientSampled :
2-AVE-19

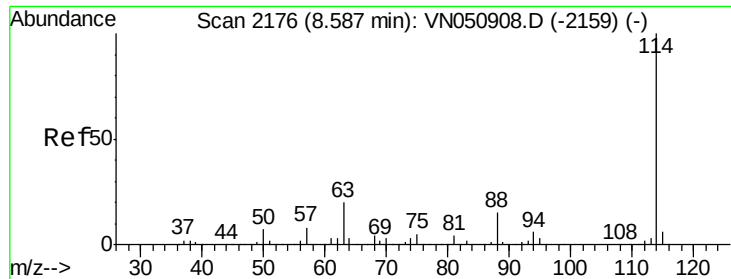
Tot Ion: 83 Resp: 5822
Ion Ratio Lower Upper
83 100
85 62.6 51.4 77.0



#27
1,2-Dichloroethane-d4
Concen: 31.25 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050973.D
Acq: 30 Aug 2018 19:59

Tgt Ion: 65 Resp: 214150
Ion Ratio Lower Upper
65 100
67 54.1 43.7 65.5

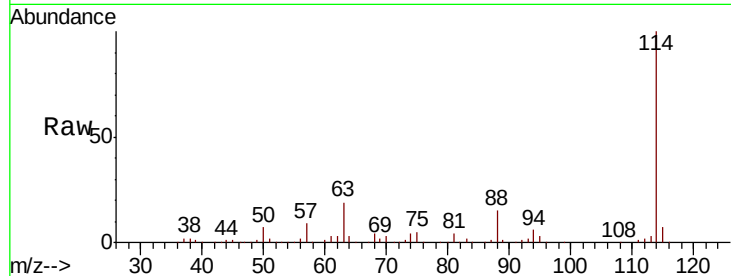




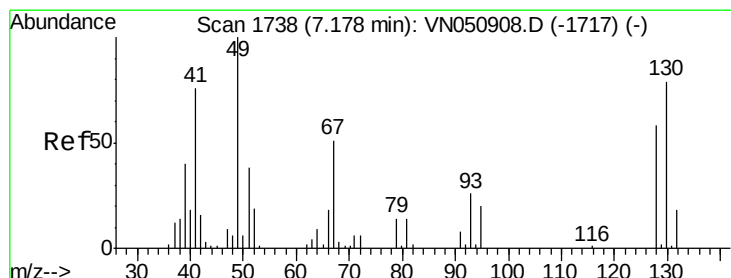
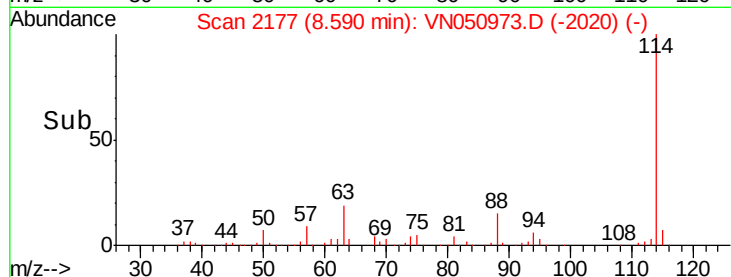
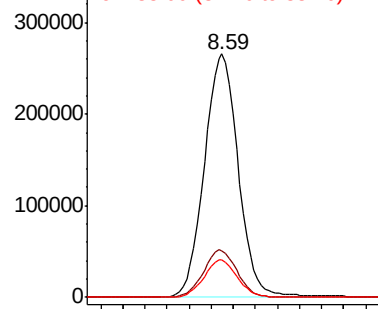
#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050973.D
 Acq: 30 Aug 2018 19:59

Instrument :
 MSVOA_N
 ClientSampleId :
 2-AVE-19

Tot Ion:114 Resp: 565686
 Ion Ratio Lower Upper
 114 100
 63 19.3 15.6 23.4
 88 15.2 12.2 18.4

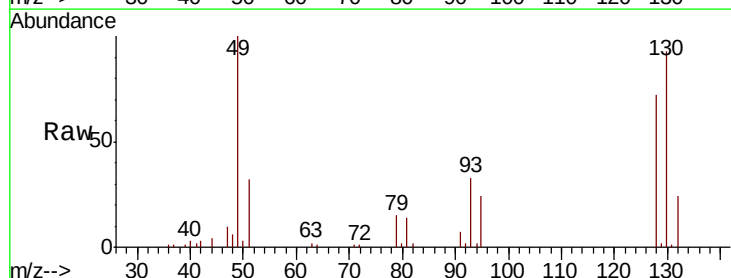


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VNO
 Ion 88.00 (87.70 to 88.70): VNO

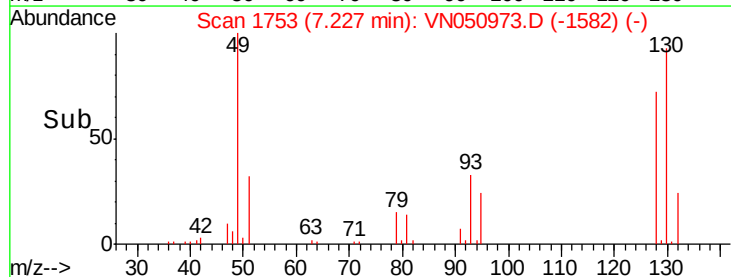
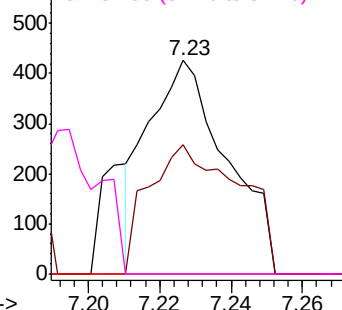


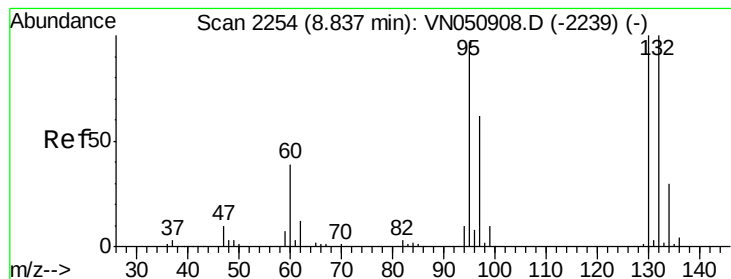
#35
 Methacrylonitrile
 Concen: 0.23 ug/l
 RT: 7.23 min Scan# 1753
 Delta R.T. 0.05 min
 Lab File: VN050973.D
 Acq: 30 Aug 2018 19:59

Tgt Ion: 41 Resp: 653
 Ion Ratio Lower Upper
 41 100
 39 60.6 26.2 78.5
 67 0.0 33.9 101.6#
 52 0.0 12.5 37.5#



Abundance Ion 41.00 (40.70 to 41.70): VNO
 Ion 39.00 (38.70 to 39.70): VNO
 Ion 67.00 (66.70 to 67.70): VNO
 Ion 52.00 (51.70 to 52.70): VNO





#37

Trichloroethene

Concen: 0.77 ug/l

RT: 8.84 min Scan# 2254

Delta R.T. 0.00 min

Lab File: VN050973.D

Acq: 30 Aug 2018 19:59

Instrument :

MSVOA_N

ClientSampleId :

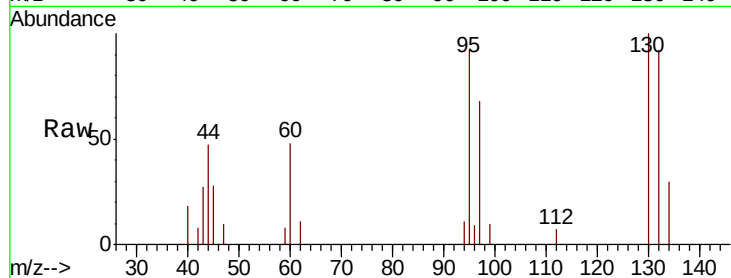
2-AVE-19

Tot Ion:130 Resp: 5281

Ion Ratio Lower Upper

130 100

95 92.2 77.4 116.0



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN0

8.84

2500

2000

1500

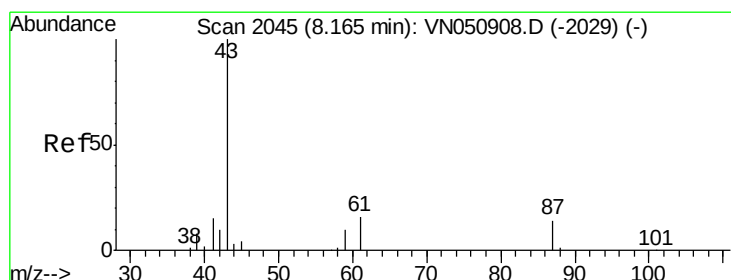
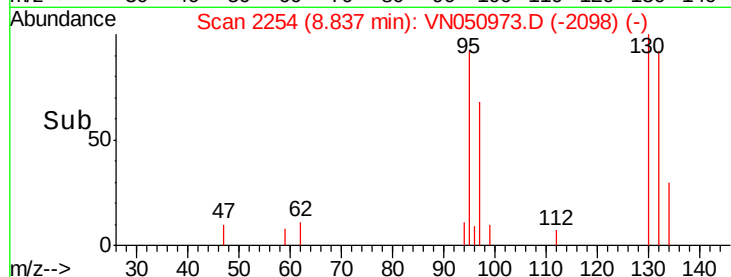
1000

500

0

8.80 8.85 8.90

Time-->



#44

Isopropyl Acetate

Concen: 9.34 ug/l

RT: 8.27 min Scan# 2079

Delta R.T. 0.11 min

Lab File: VN050973.D

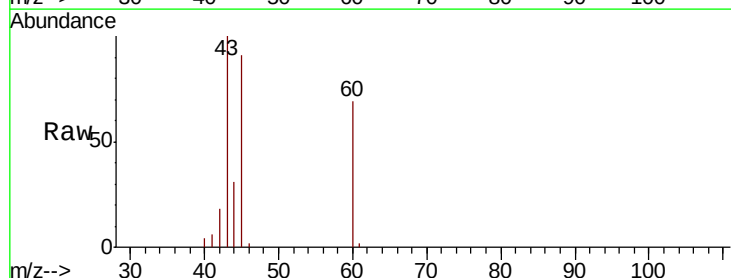
Acq: 30 Aug 2018 19:59

Tgt Ion: 43 Resp: 87927

Ion Ratio Lower Upper

43 100

61 0.2 16.3 24.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

25000

20000

15000

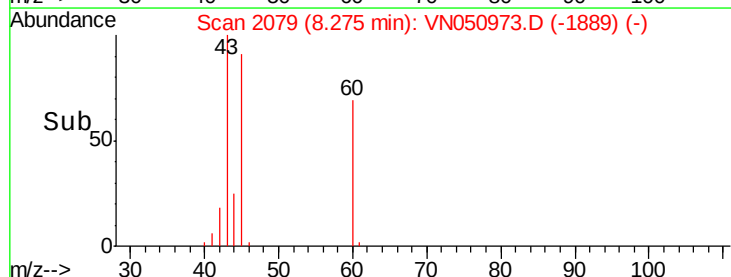
10000

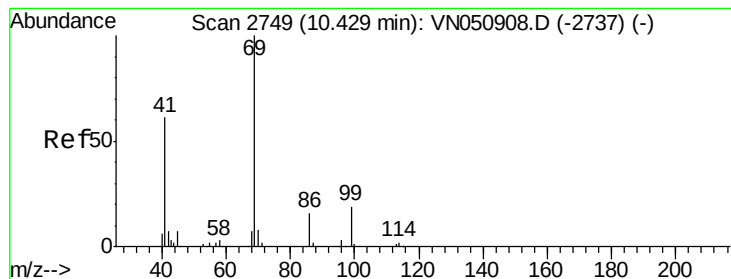
5000

0

8.10 8.15 8.20 8.25 8.30

Time-->





#51

Ethyl methacrylate

Concen: 0.29 ug/l

RT: 10.10 min Scan# 2646

Delta R.T. -0.33 min

Lab File: VN050973.D

Acq: 30 Aug 2018 19:59

Instrument :

MSVOA_N

ClientSampled :

2-AVE-19

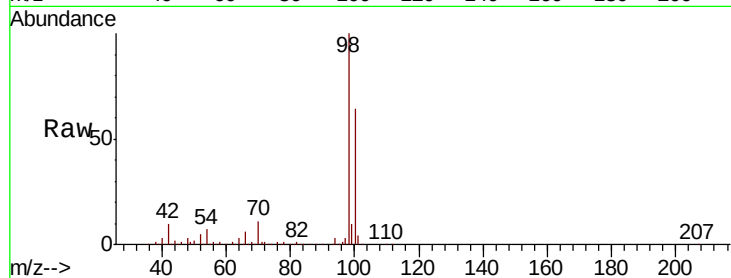
Tot Ion: 69 Resp: 2109

Ion Ratio Lower Upper

69 100

41 70.0 30.5 91.5

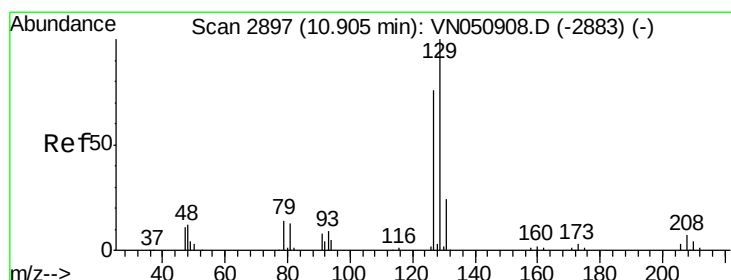
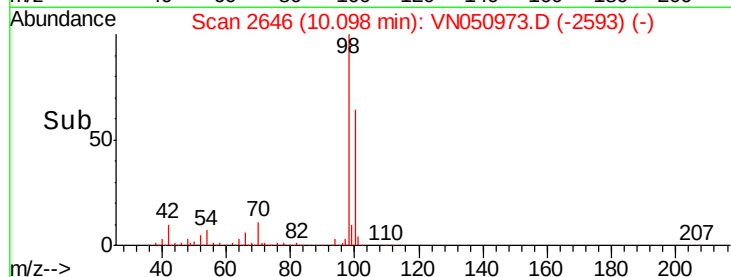
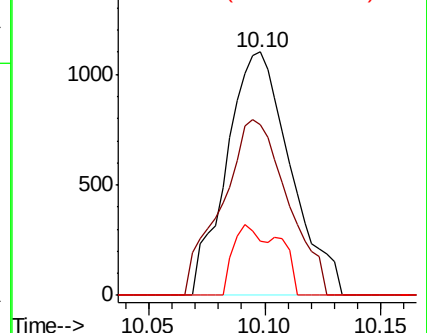
39 22.5 15.3 45.8



Abundance Ion 69.00 (68.70 to 69.70): VN050908.D (-2737) (-)

Ion 41.00 (40.70 to 41.70): VN050908.D (-2737) (-)

Ion 39.00 (38.70 to 39.70): VN050908.D (-2737) (-)



#53

Dibromochloromethane

Concen: 1.32 ug/l

RT: 10.63 min Scan# 2813

Delta R.T. -0.27 min

Lab File: VN050973.D

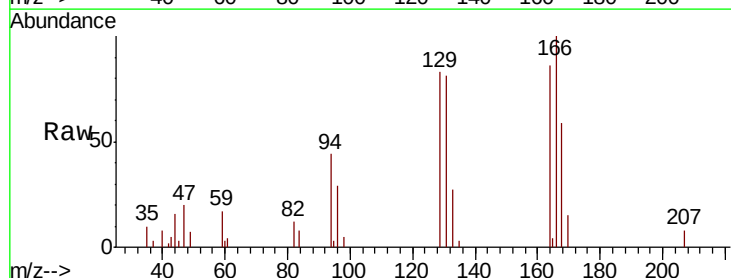
Acq: 30 Aug 2018 19:59

Tgt Ion: 129 Resp: 8975

Ion Ratio Lower Upper

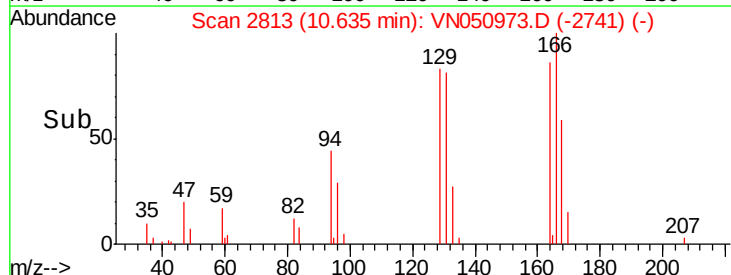
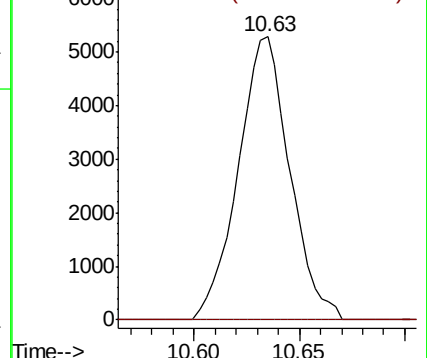
129 100

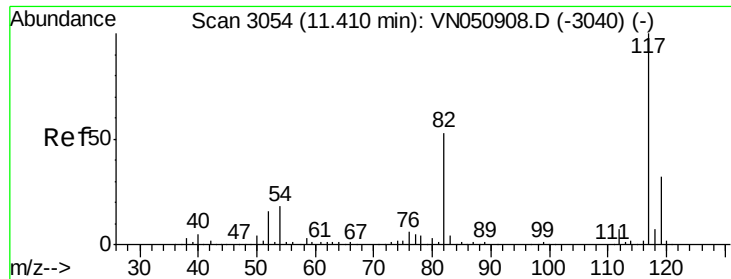
127 0.0 39.0 116.9#



Abundance Ion 129.00 (128.70 to 129.70): VN050908.D (-2883) (-)

Ion 127.00 (126.70 to 127.70): VN050908.D (-2883) (-)

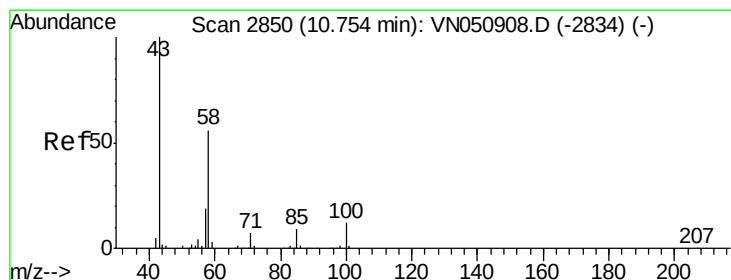
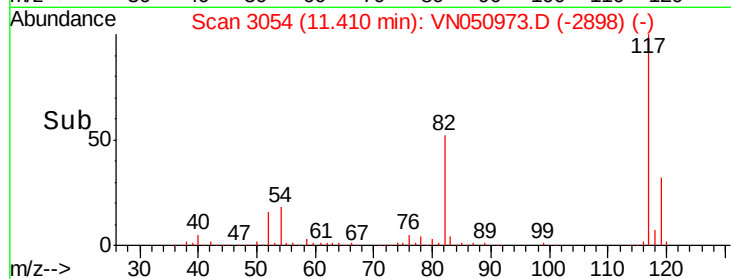
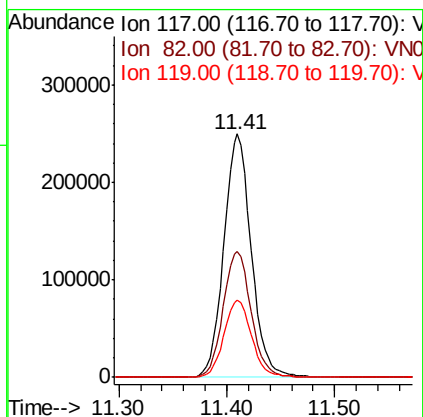
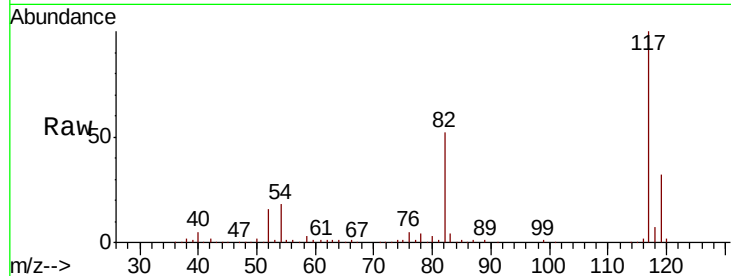




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050973.D
Acq: 30 Aug 2018 19:59

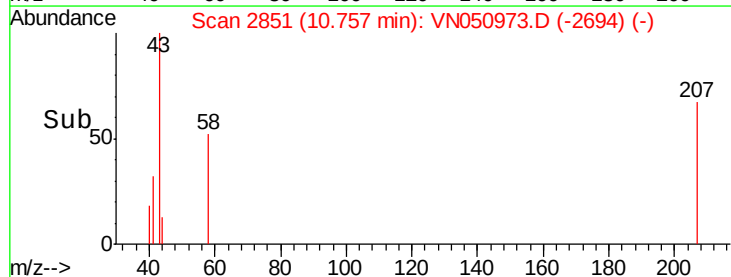
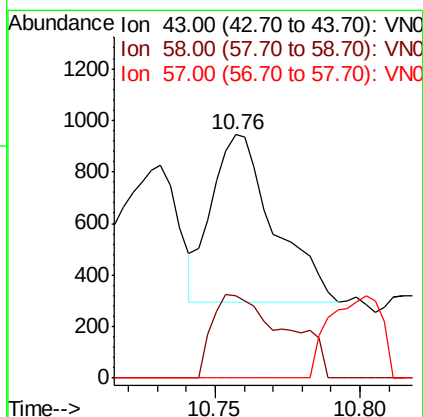
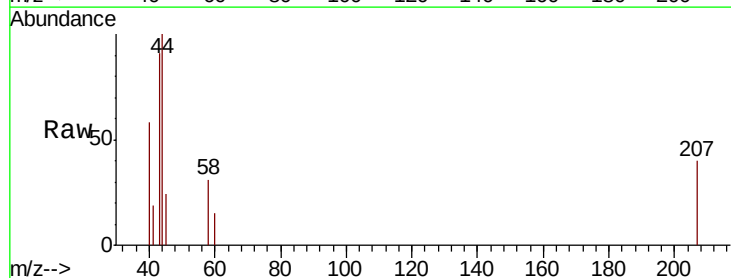
Instrument :
MSVOA_N
ClientSampleId :
2-AVE-19

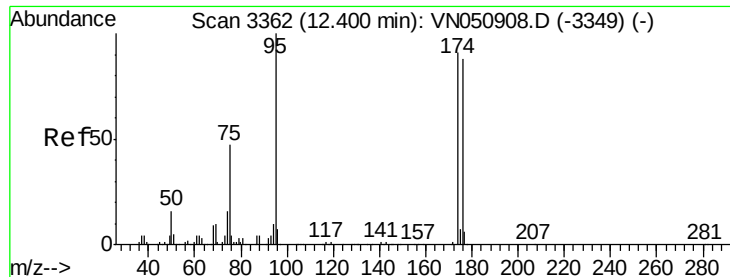
Tot Ion:117 Resp: 440305
Ion Ratio Lower Upper
117 100
82 52.8 42.6 64.0
119 32.2 25.7 38.5



#59
2-Hexanone
Concen: 0.29 ug/l
RT: 10.76 min Scan# 2851
Delta R.T. 0.00 min
Lab File: VN050973.D
Acq: 30 Aug 2018 19:59

Tgt Ion: 43 Resp: 966
Ion Ratio Lower Upper
43 100
58 41.3 45.5 68.3#
57 0.0 15.2 22.8#





#60

4-Bromofluorobenzene

Concen: 21.25 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050973.D

Acq: 30 Aug 2018 19:59

Instrument :

MSVOA_N

ClientSampled :

2-AVE-19

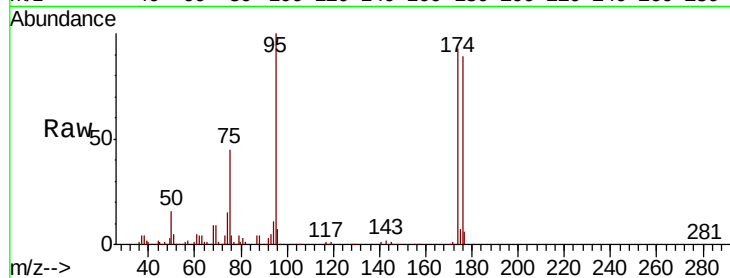
Tot Ion: 95 Resp: 139129

Ion Ratio Lower Upper

95 100

174 93.4 74.6 112.0

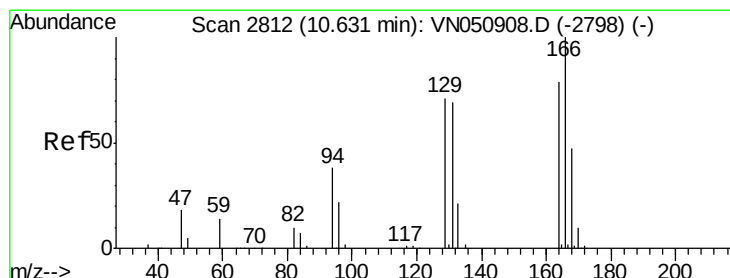
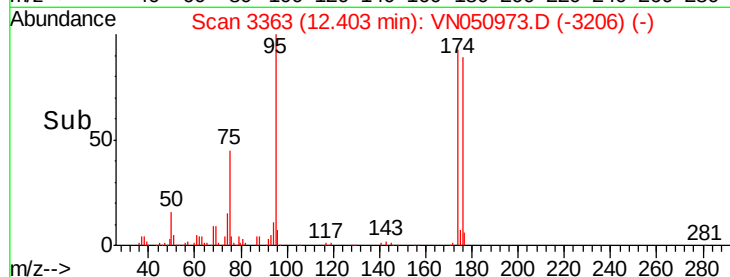
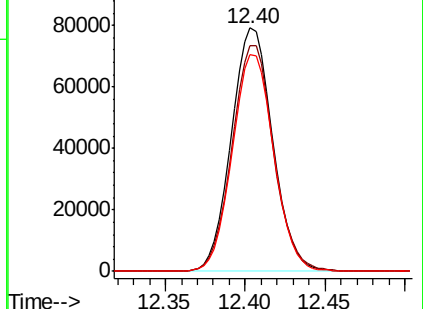
176 89.7 71.5 107.3



Abundance Ion 95.00 (94.70 to 95.70): VN050973.D (-3206) (-)

Ion 174.00 (173.70 to 174.70): VN050973.D (-3206) (-)

Ion 176.00 (175.70 to 176.70): VN050973.D (-3206) (-)



#61

Tetrachloroethene

Concen: 1.82 ug/l

RT: 10.63 min Scan# 2812

Delta R.T. 0.00 min

Lab File: VN050973.D

Acq: 30 Aug 2018 19:59

Tgt Ion: 164 Resp: 10006

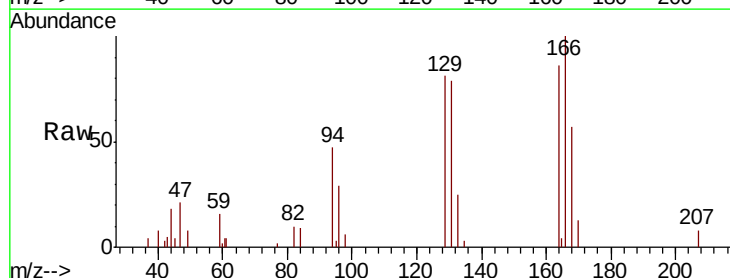
Ion Ratio Lower Upper

164 100

166 115.6 100.6 151.0

129 93.4 71.0 106.6

131 91.8 69.3 103.9

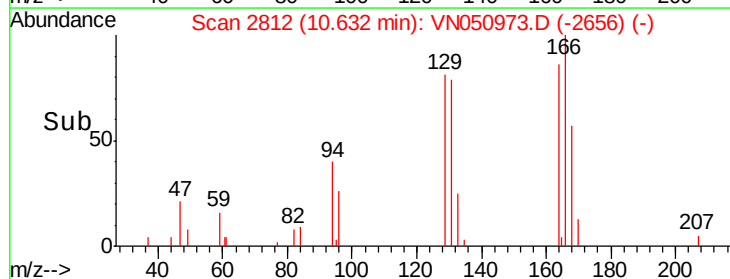
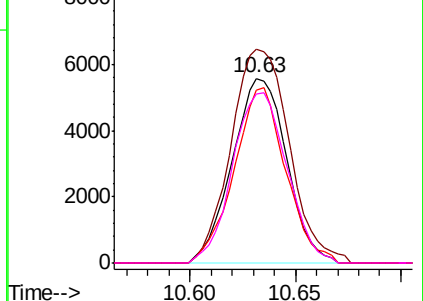


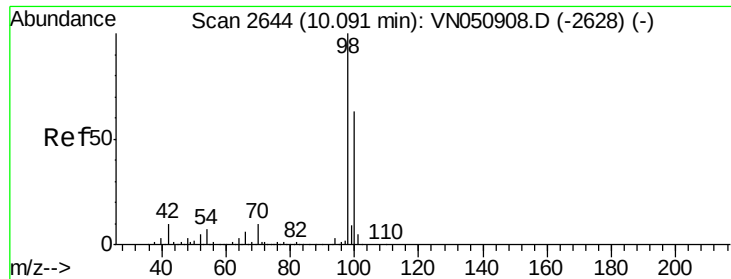
Abundance Ion 163.85 (163.55 to 164.55): VN050973.D (-2656) (-)

Ion 165.80 (165.50 to 166.50): VN050973.D (-2656) (-)

Ion 128.90 (128.60 to 129.60): VN050973.D (-2656) (-)

Ion 130.90 (130.60 to 131.60): VN050973.D (-2656) (-)

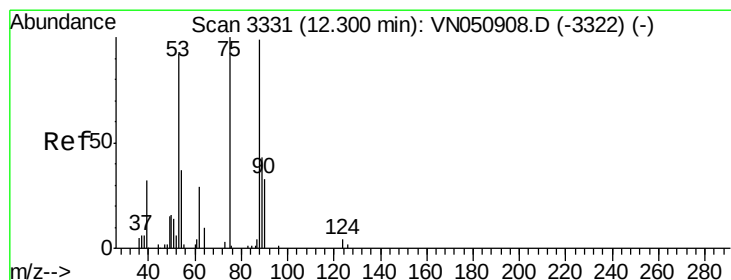
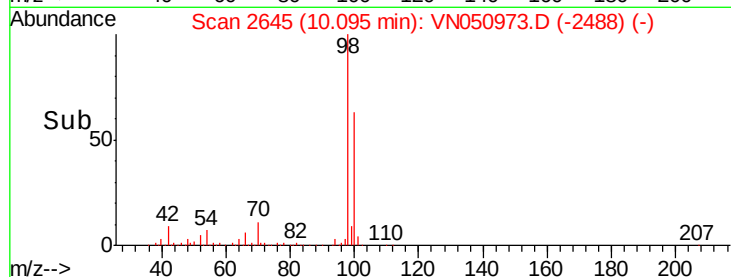
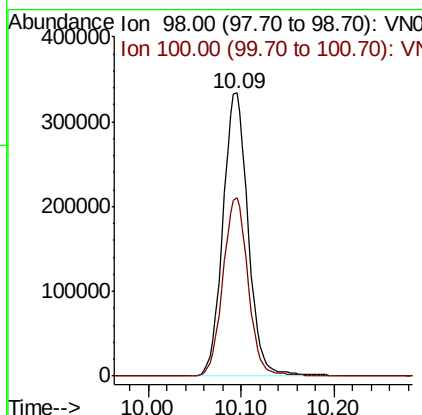
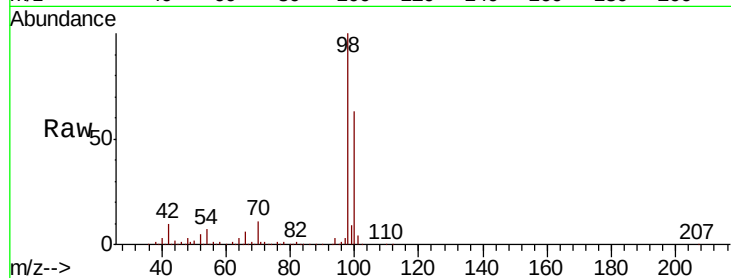




#63
Toluene-d8
Concen: 30.66 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050973.D
Acq: 30 Aug 2018 19:59

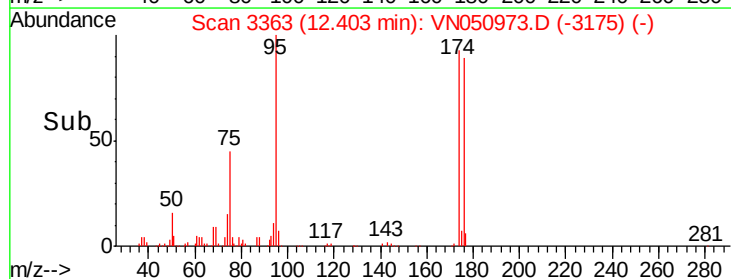
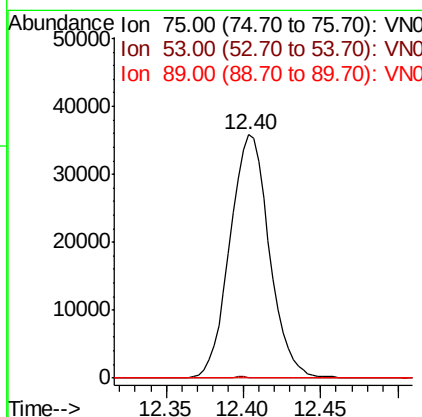
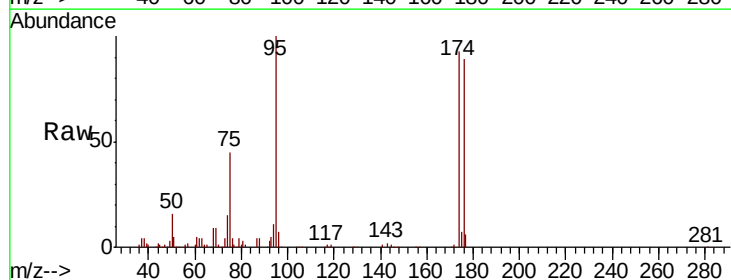
Instrument :
MSVOA_N
ClientSampleId :
2-AVE-19

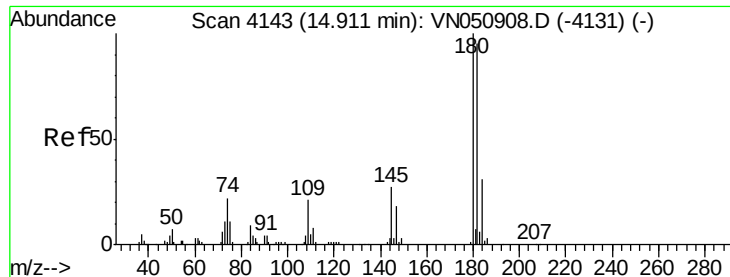
Tot Ion: 98 Resp: 629590
Ion Ratio Lower Upper
98 100
100 63.0 50.6 75.8



#77
t-1,4-Dichloro-2-butene
Concen: 38.33 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.10 min
Lab File: VN050973.D
Acq: 30 Aug 2018 19:59

Tgt Ion: 75 Resp: 63396
Ion Ratio Lower Upper
75 100
53 0.4 45.5 136.4#
89 0.0 21.9 65.8#

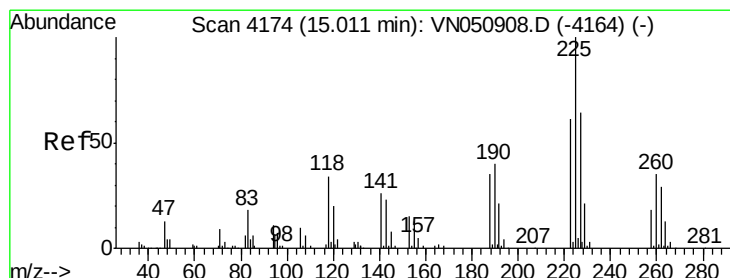
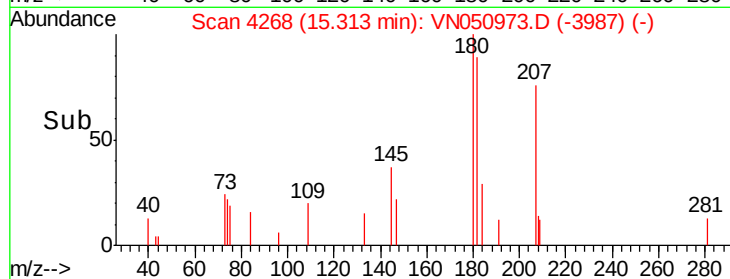
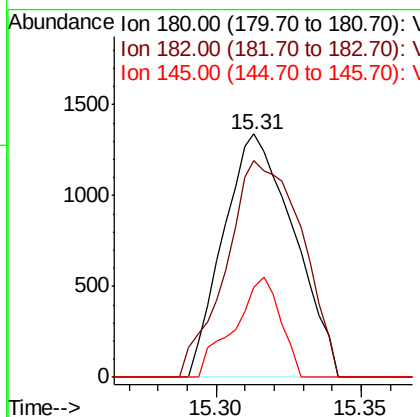
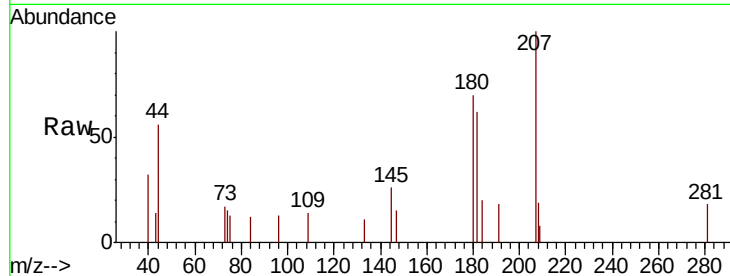




#89
 1,2,4-Trichlorobenzene
 Concen: 0.47 ug/l
 RT: 15.31 min Scan# 4268
 Delta R.T. 0.40 min
 Lab File: VN050973.D
 Acq: 30 Aug 2018 19:59

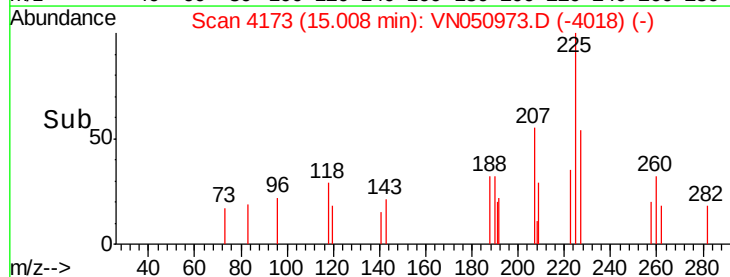
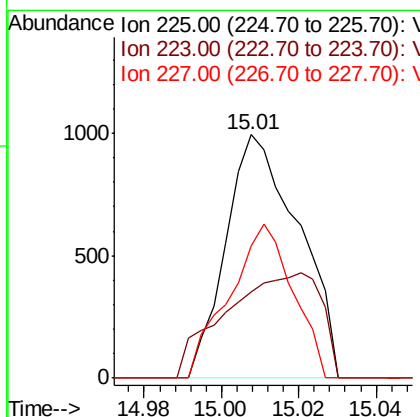
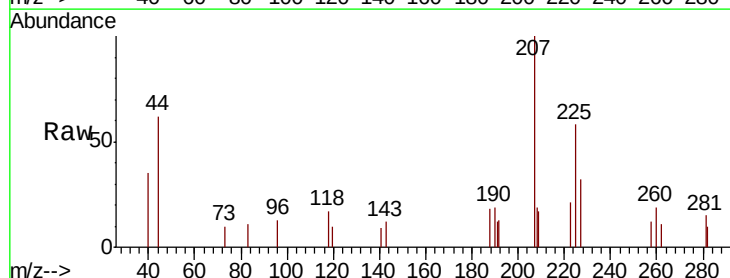
Instrument :
 MSVOA_N
 ClientSampleId :
 2-AVE-19

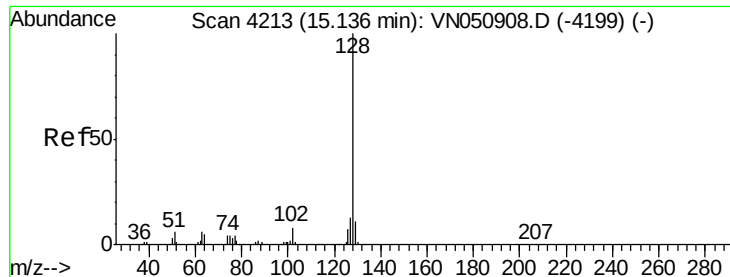
Tot Ion:180 Resp: 2261
 Ion Ratio Lower Upper
 180 100
 182 96.0 76.2 114.4
 145 27.2 22.2 33.4



#90
 Hexachlorobutadiene
 Concen: 0.39 ug/l
 RT: 15.01 min Scan# 4173
 Delta R.T. -0.00 min
 Lab File: VN050973.D
 Acq: 30 Aug 2018 19:59

Tgt Ion:225 Resp: 1295
 Ion Ratio Lower Upper
 225 100
 223 57.0 0.0 127.8
 227 55.4 0.0 128.4





#91

Naphthalene

Concen: 8.89 ug/l

RT: 15.13 min Scan# 4211

Delta R.T. -0.01 min

Lab File: VN050973.D

Acq: 30 Aug 2018 19:59

Instrument :

MSVOA_N

ClientSampled :

2-AVE-19

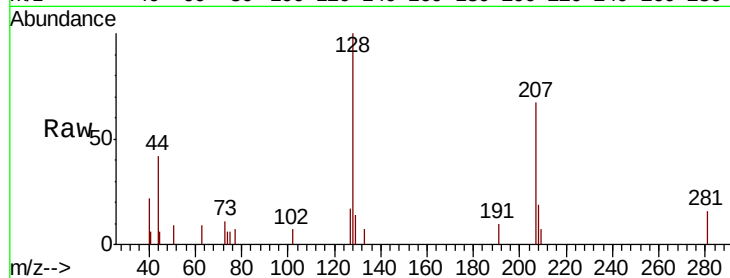
Tot Ion:128 Resp: 4688

Ion Ratio Lower Upper

128 100

127 13.6 10.6 16.0

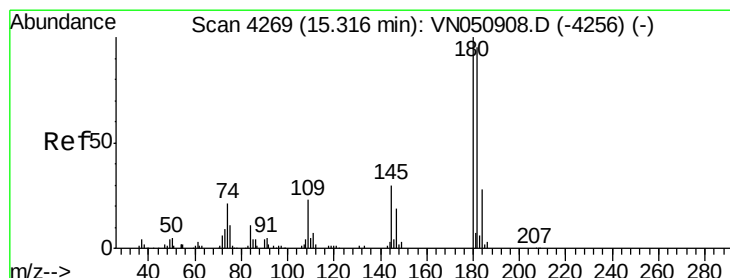
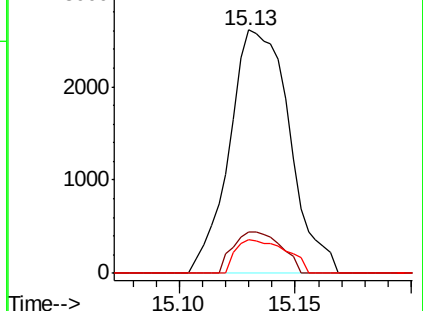
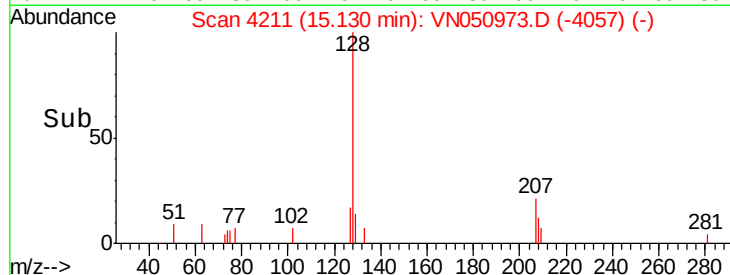
129 11.5 8.7 13.1



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: 0.47 ug/l

RT: 15.31 min Scan# 4268

Delta R.T. -0.00 min

Lab File: VN050973.D

Acq: 30 Aug 2018 19:59

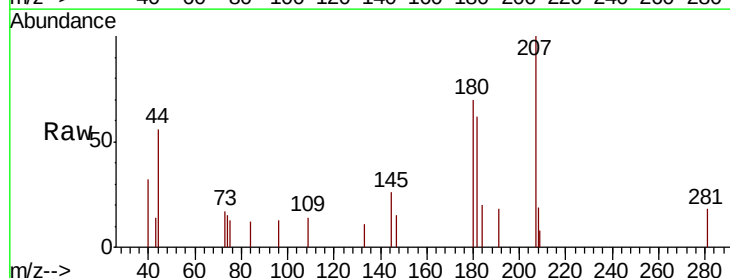
Tgt Ion:180 Resp: 2261

Ion Ratio Lower Upper

180 100

182 96.0 0.0 192.8

145 27.2 0.0 60.0



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

