

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031819\
 Data File : VN054387.D
 Acq On : 18 Mar 2019 12:10
 Operator : JC/SP
 Sample : K1960-11DL 40X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 19 05:09:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1906355	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2703453	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2233322	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	800161	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	903243	44.61	ug/l	0.00
Spiked Amount			Recovery	=	89.22%	
35) Dibromofluoromethane	7.59	113	823593	47.23	ug/l	0.00
Spiked Amount			Recovery	=	94.46%	
50) Toluene-d8	10.09	98	3109602	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	
62) 4-Bromofluorobenzene	12.40	95	906040	40.21	ug/l	0.00
Spiked Amount			Recovery	=	80.42%	

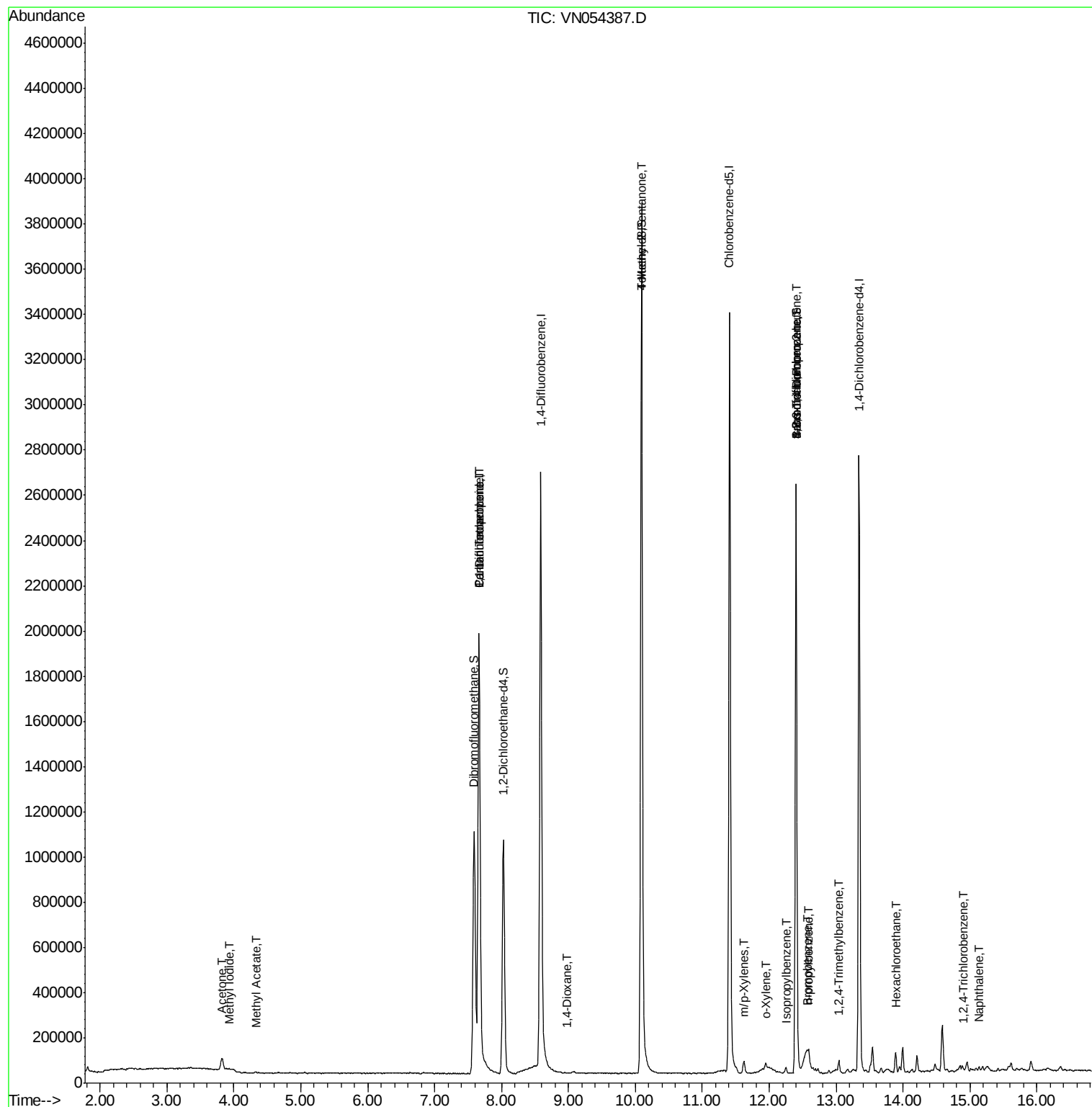
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.94	142	98	1.500	ug/l #	45
16) Acetone	3.82	43	81398	14.042	ug/l	99
18) Methyl Acetate	4.34	43	5890	0.502	ug/l #	75
31) Cyclohexane	7.66	56	29603	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	112648	4.525	ug/l #	48
38) Carbon Tetrachloride	7.66	117	157528	6.034	ug/l #	16
49) 1,4-Dioxane	8.99	88	61	0.338	ug/l #	1
51) 4-Methyl-2-Pentanone	10.09	43	10780	0.811	ug/l #	1
68) m/p-Xylenes	11.62	106	19540	0.615	ug/l	99
69) o-Xylene	11.95	106	7370	0.238	ug/l	98
71) Bromoform	12.40	173	6142	2.782	ug/l #	1
73) Isopropylbenzene	12.25	105	17831	0.279	ug/l	97
76) 1,2,3-Trichloropropane	12.40	75	431366	36.660	ug/l #	100
77) Bromobenzene	12.57	156	142155	8.392	ug/l #	1
78) n-propylbenzene	12.59	91	19341	0.278	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	431366	125.320	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.04	105	31903	0.611	ug/l	98
90) Hexachloroethane	13.89	117	4630	0.501	ug/l #	2
93) 1,2,4-Trichlorobenzene	14.91	180	116	2.523	ug/l #	1
95) Naphthalene	15.14	128	20166	4.004	ug/l	98

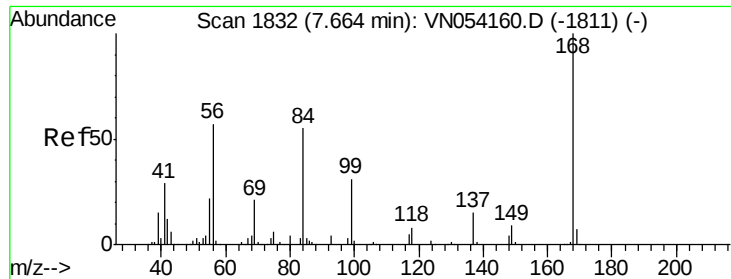
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 19 05:09:45 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN054387.D

Acq: 18 Mar 2019 12:10

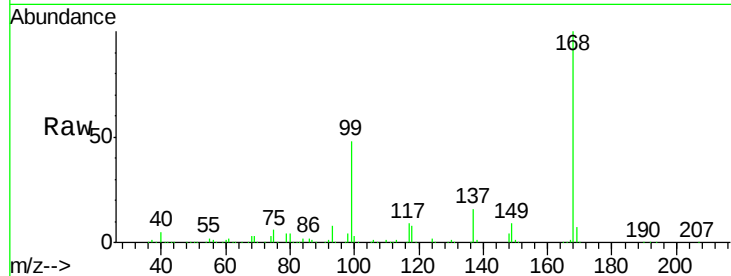
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 1906355

Ion Ratio Lower Upper

168 100

99 48.3 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

800000

600000

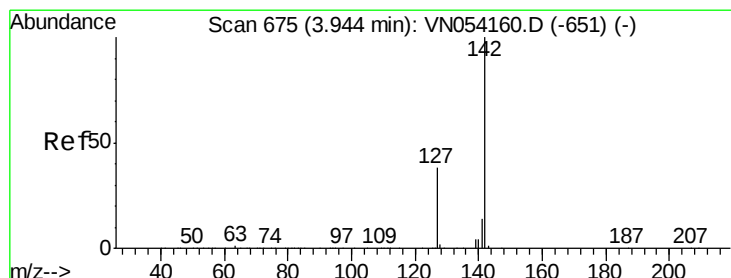
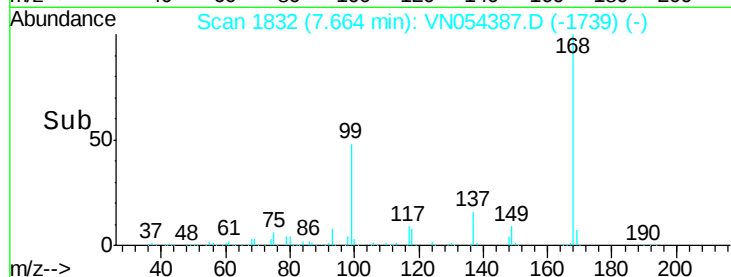
400000

200000

0

Time-->

7.50 7.60 7.70 7.80 7.90



#10

Methyl Iodide

Concen: 1.500 ug/l

RT: 3.94 min Scan# 675

Delta R.T. 0.00 min

Lab File: VN054387.D

Acq: 18 Mar 2019 12:10

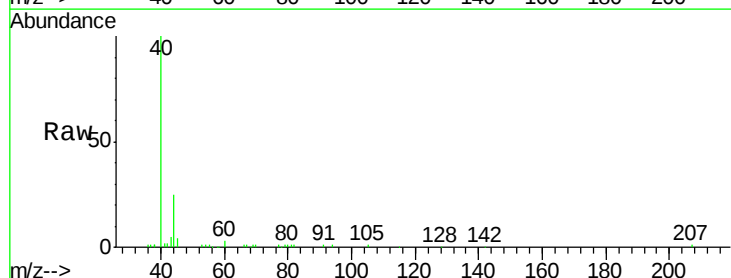
Tgt Ion:142 Resp: 98

Ion Ratio Lower Upper

142 100

127 0.0 30.3 45.5#

141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

250

200

150

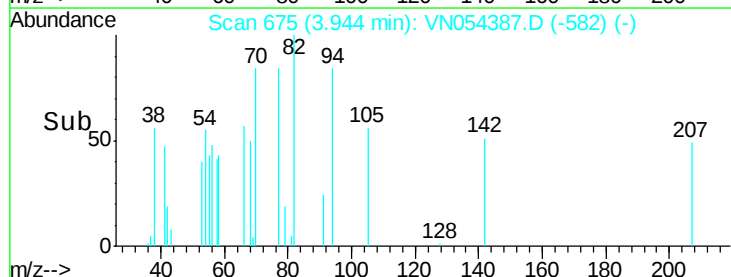
100

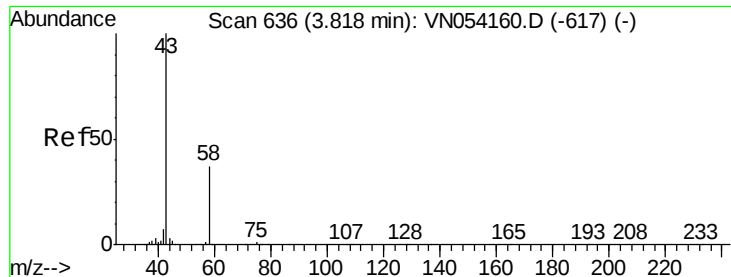
50

0

Time-->

3.93 3.94 3.95 3.96





#16

Acetone

Concen: 14.042 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN054387.D

Acq: 18 Mar 2019 12:10

Instrument :

MSVOA_N

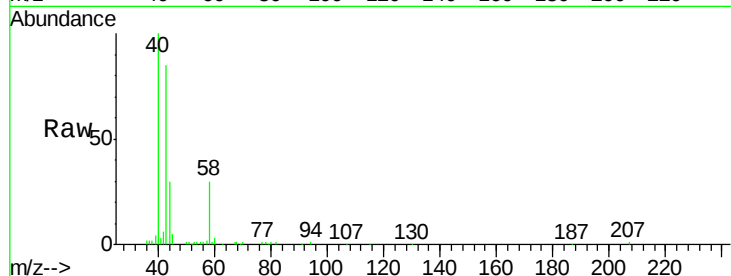
ClientSampled :

Tot Ion: 43 Resp: 81398

Ion Ratio Lower Upper

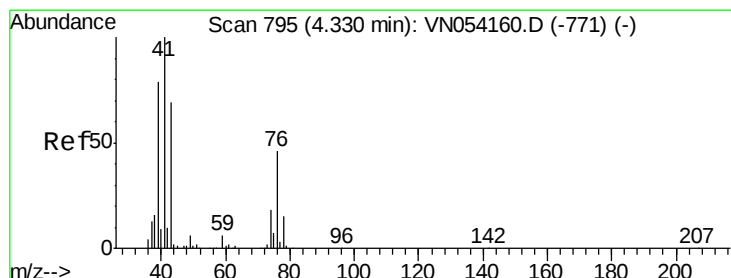
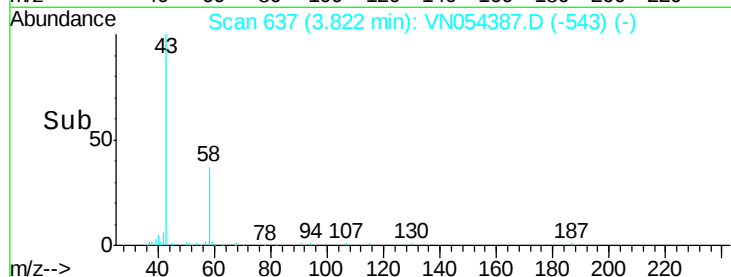
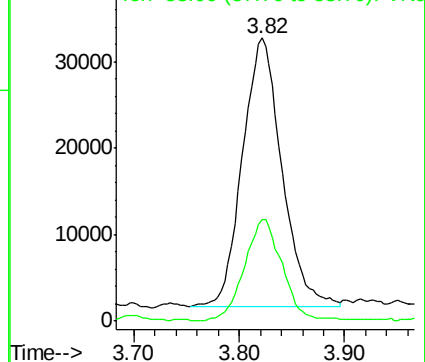
43 100

58 37.8 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.502 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN054387.D

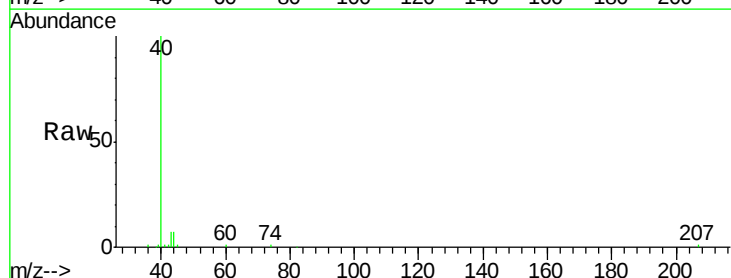
Acq: 18 Mar 2019 12:10

Tgt Ion: 43 Resp: 5890

Ion Ratio Lower Upper

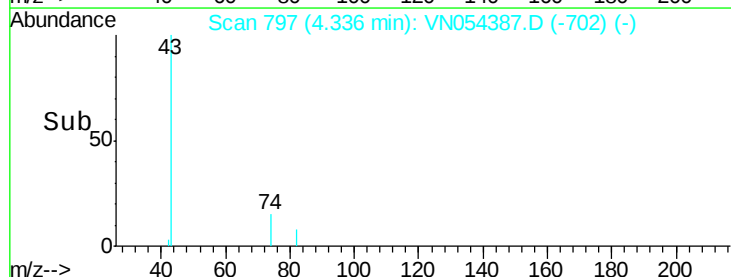
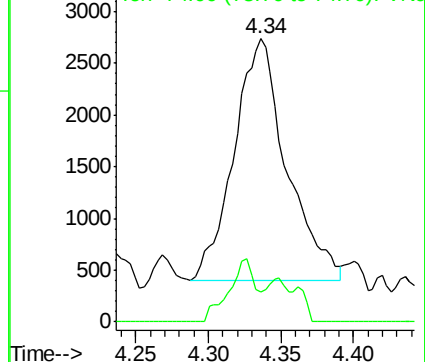
43 100

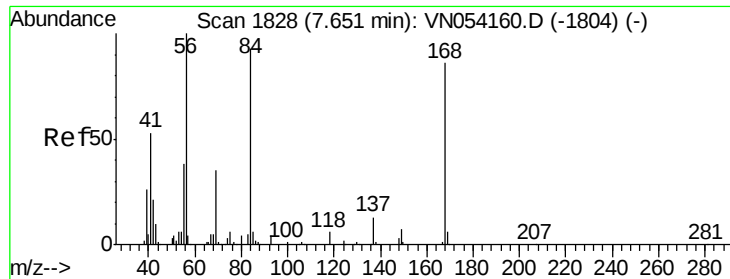
74 13.1 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

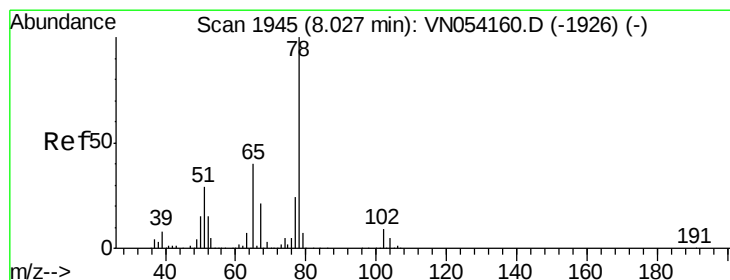
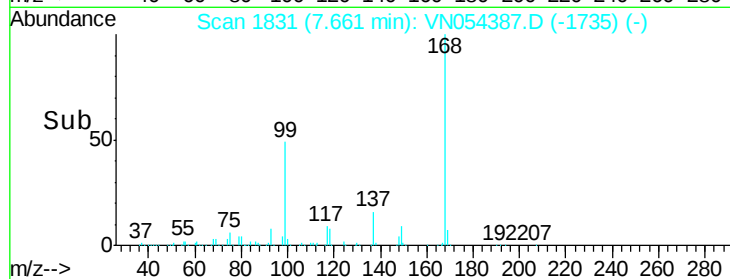
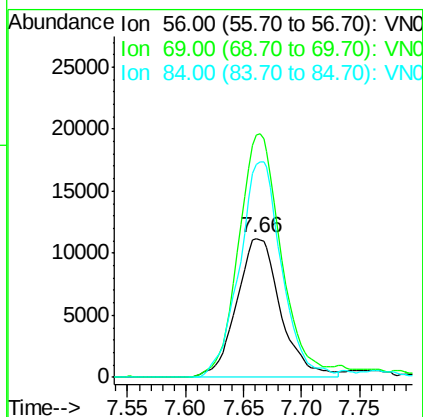
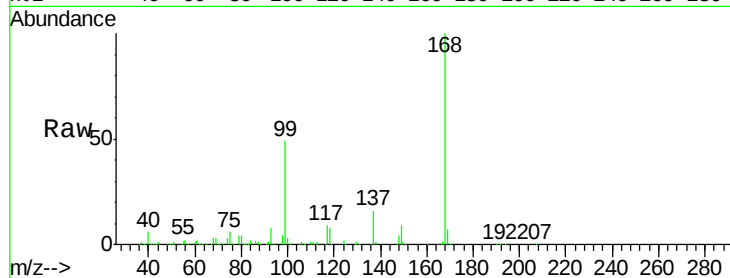




#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN054387.D
Acq: 18 Mar 2019 12:10

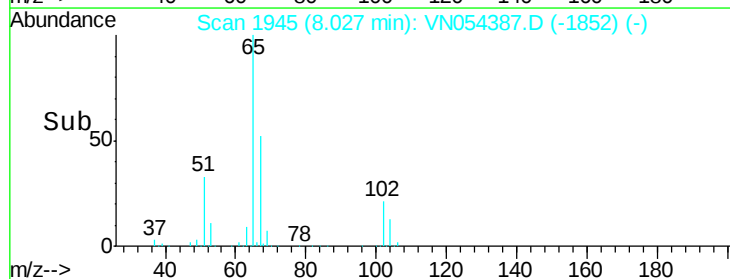
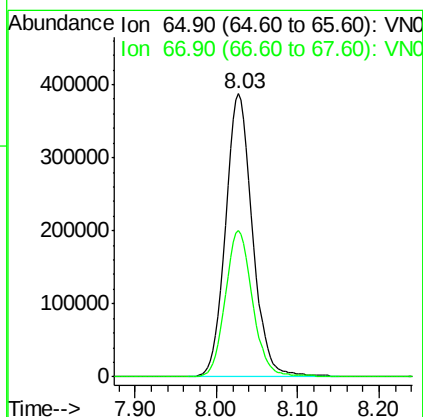
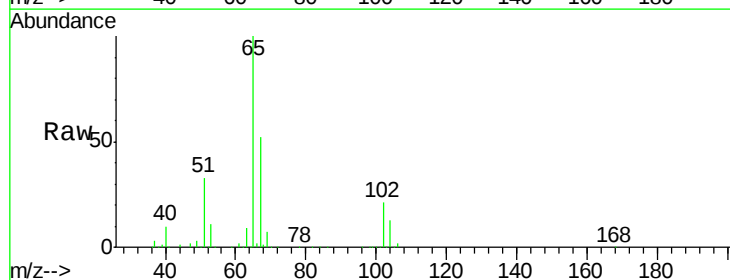
Instrument :
MSVOA_N
ClientSampled :

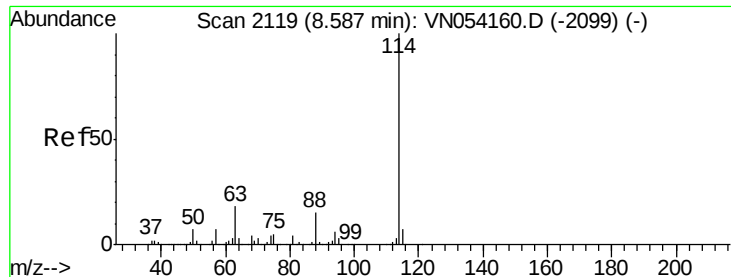
Tot Ion: 56 Resp: 29603
Ion Ratio Lower Upper
56 100
69 174.8 27.8 41.6#
84 153.4 74.6 111.8#



#33
1,2-Dichloroethane-d4
Concen: 44.614 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN054387.D
Acq: 18 Mar 2019 12:10

Tgt Ion: 65 Resp: 903243
Ion Ratio Lower Upper
65 100
67 52.5 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN054387.D

Acq: 18 Mar 2019 12:10

Instrument :

MSVOA_N

ClientSampleId :

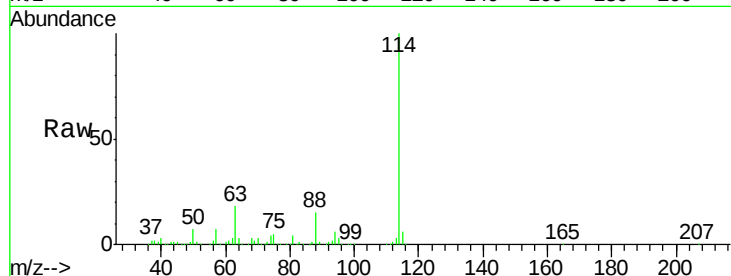
Tot Ion:114 Resp: 2703453

Ion Ratio Lower Upper

114 100

63 17.8 0.0 35.2

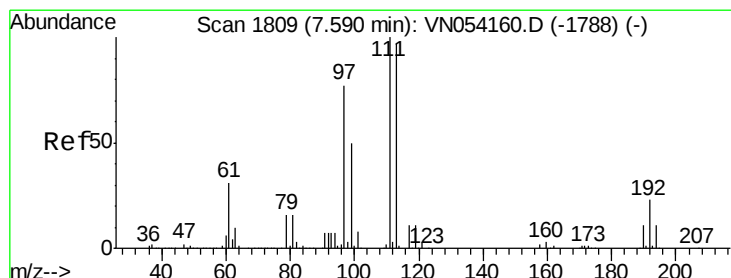
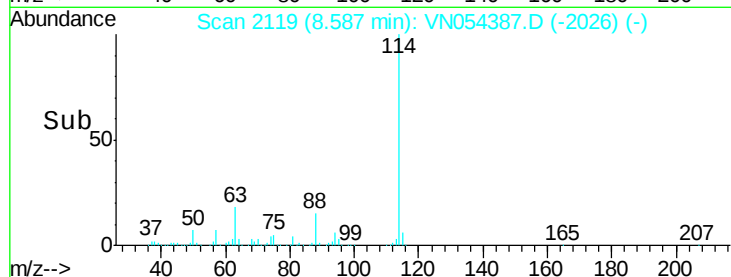
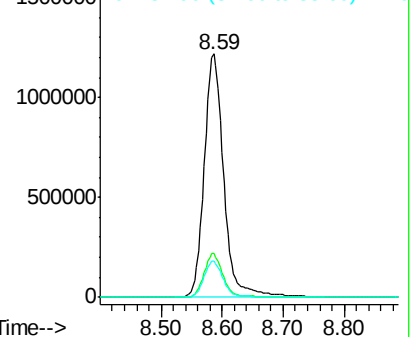
88 14.8 0.0 30.2



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: 47.235 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054387.D

Acq: 18 Mar 2019 12:10

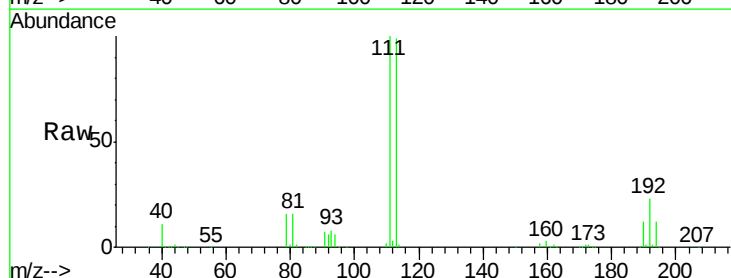
Tgt Ion:113 Resp: 823593

Ion Ratio Lower Upper

113 100

111 102.2 82.2 123.4

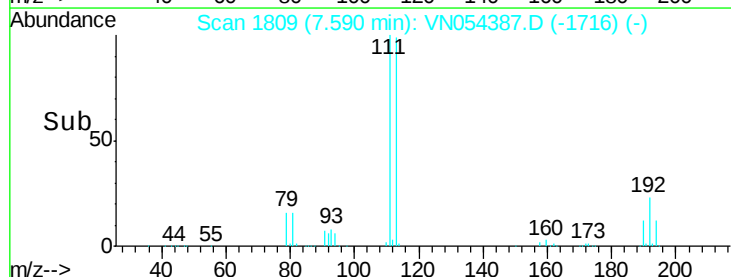
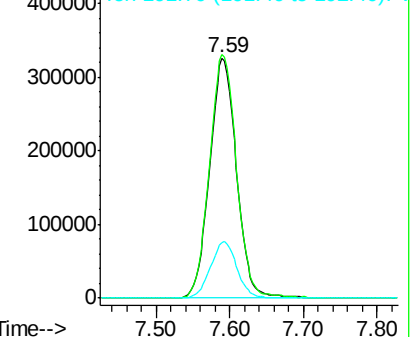
192 23.2 19.2 28.8

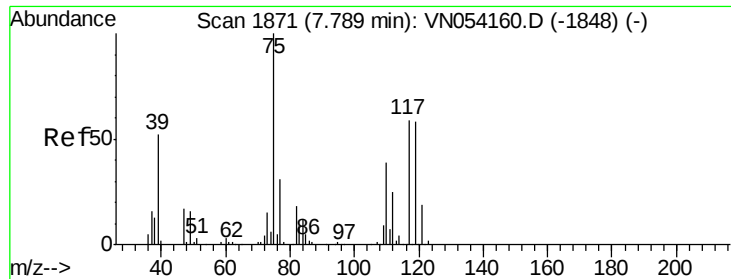


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

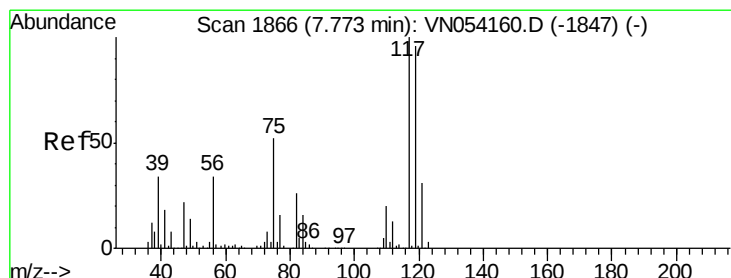
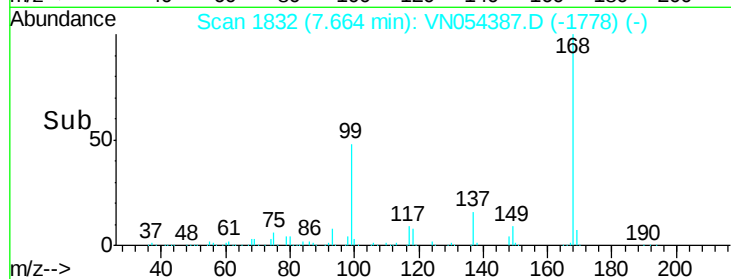
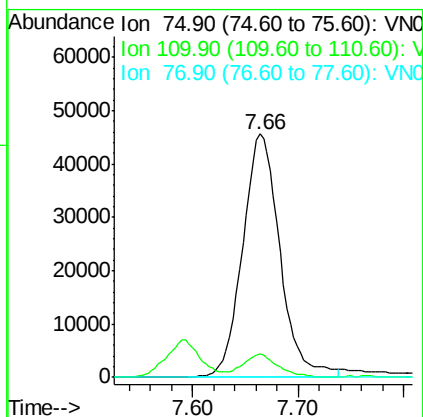
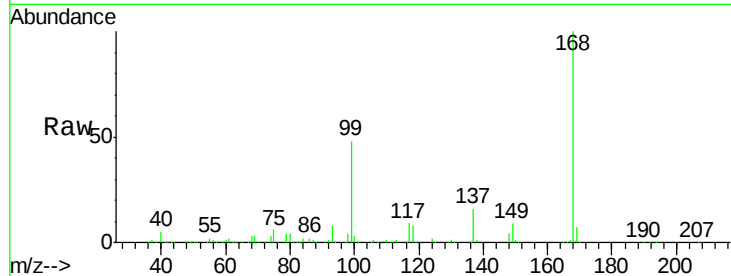




#36
 1,1-Dichloropropene
 Concen: 4.525 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054387.D
 Acq: 18 Mar 2019 12:10

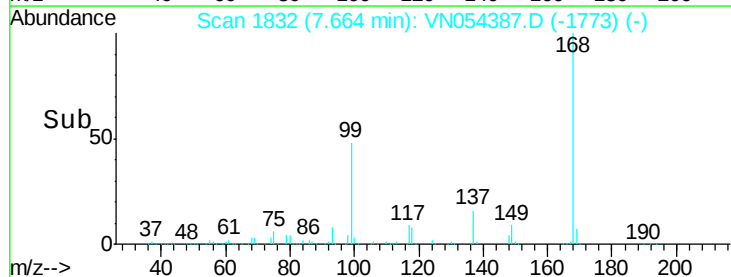
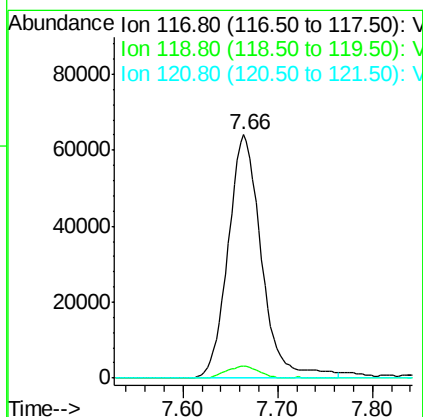
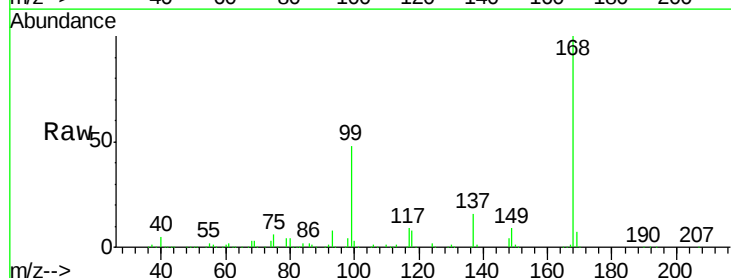
Instrument :
 MSVOA_N
 ClientSampleId :

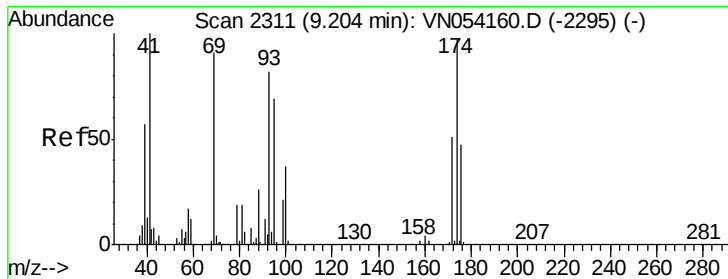
Tot Ion: 75 Resp: 112648
 Ion Ratio Lower Upper
 75 100
 110 8.7 19.1 57.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.034 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN054387.D
 Acq: 18 Mar 2019 12:10

Tgt Ion: 117 Resp: 157528
 Ion Ratio Lower Upper
 117 100
 119 5.0 76.3 114.5#
 121 0.0 24.6 36.8#





#49

1,4-Dioxane

Concen: 0.338 ug/l

RT: 8.99 min Scan# 2243

Delta R.T. -0.22 min

Lab File: VN054387.D

Acq: 18 Mar 2019 12:10

Instrument :
MSVOA_N
ClientSampleId :

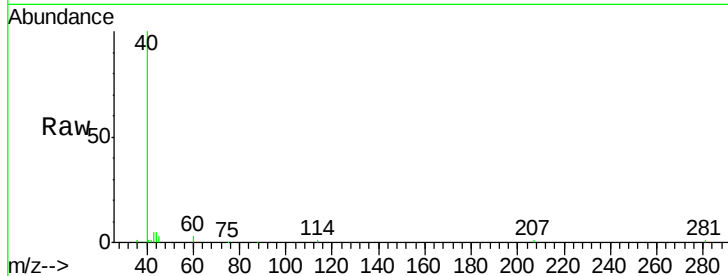
Tot Ion: 88 Resp: 61

Ion Ratio Lower Upper

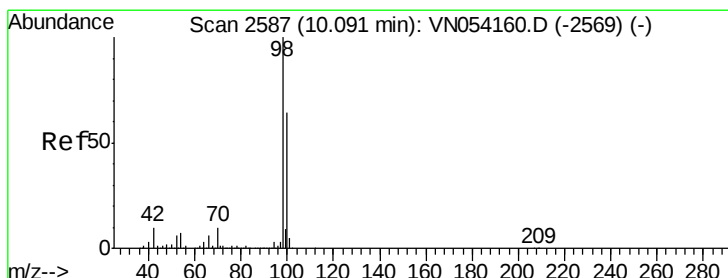
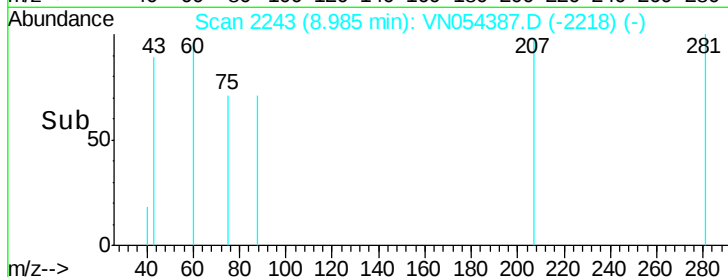
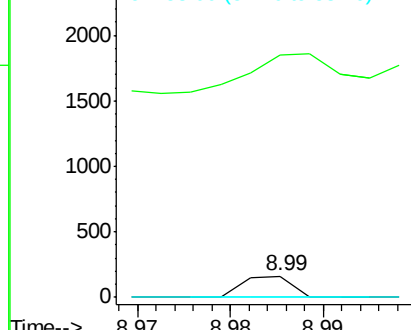
88 100

43 793.4 24.1 36.1#

58 0.0 50.8 76.2#



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 48.290 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054387.D

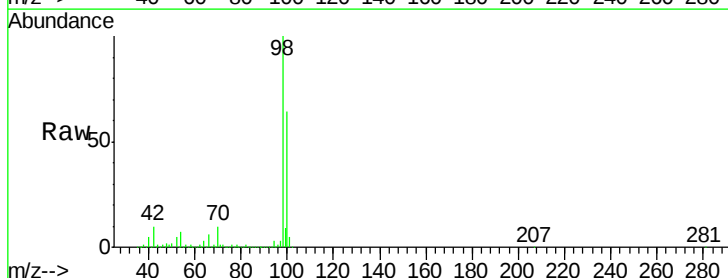
Acq: 18 Mar 2019 12:10

Tgt Ion: 98 Resp: 3109602

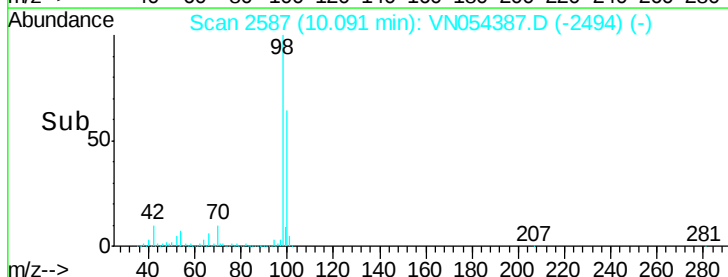
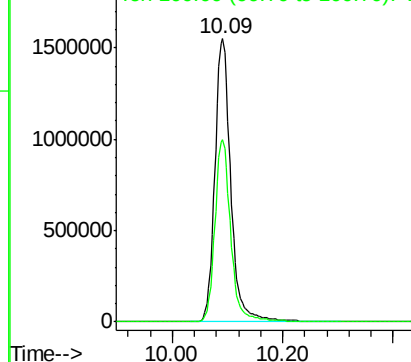
Ion Ratio Lower Upper

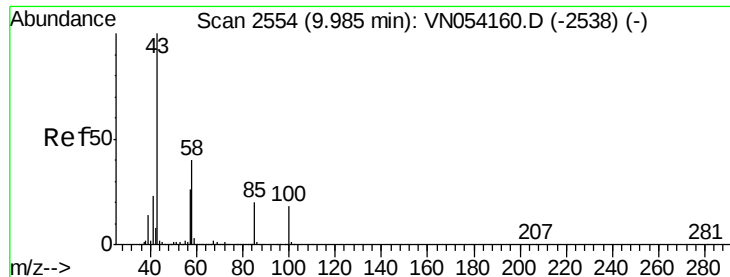
98 100

100 63.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.811 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.10 min

Lab File: VN054387.D

Acq: 18 Mar 2019 12:10

Instrument :

MSVOA_N

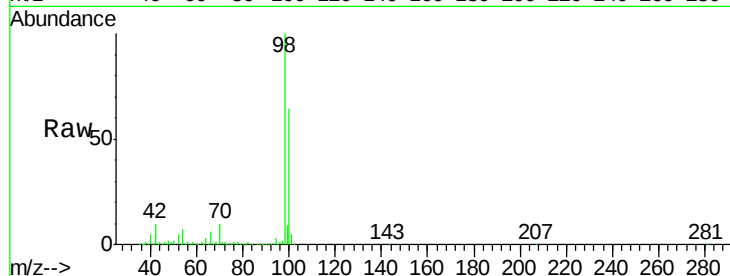
ClientSampled :

Tot Ion: 43 Resp: 10780

Ion Ratio Lower Upper

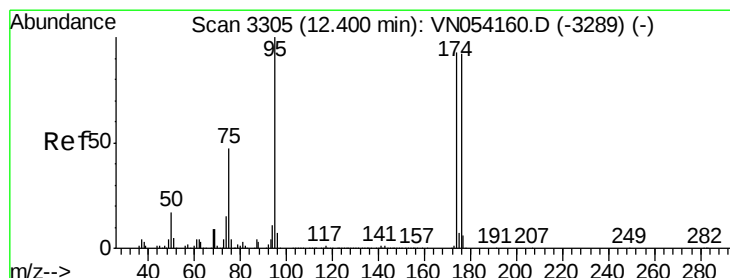
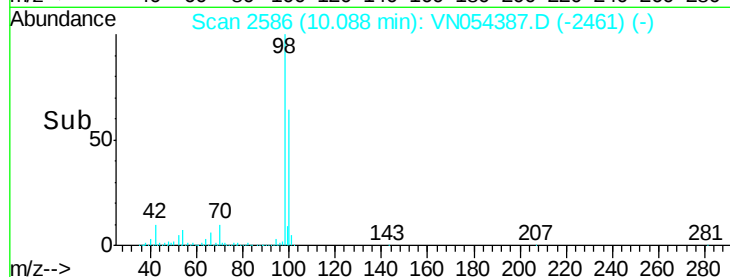
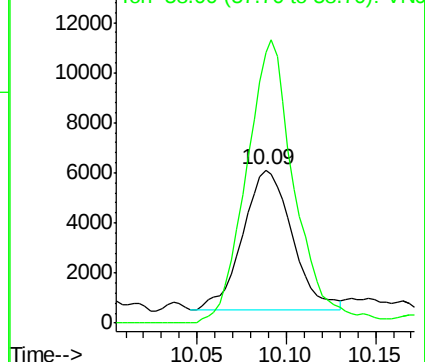
43 100

58 197.5 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 40.212 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054387.D

Acq: 18 Mar 2019 12:10

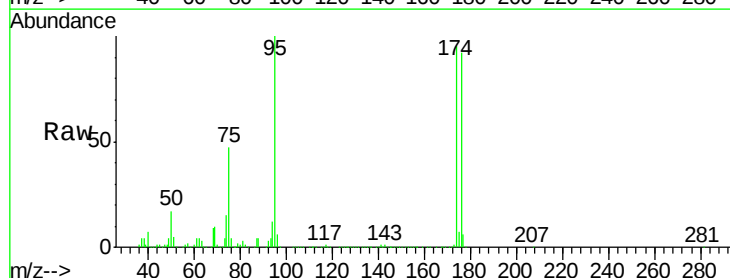
Tgt Ion: 95 Resp: 906040

Ion Ratio Lower Upper

95 100

174 95.8 0.0 191.0

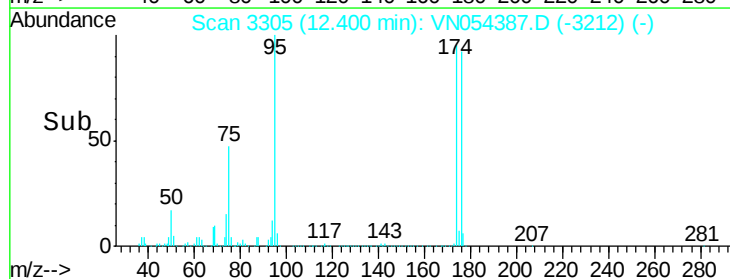
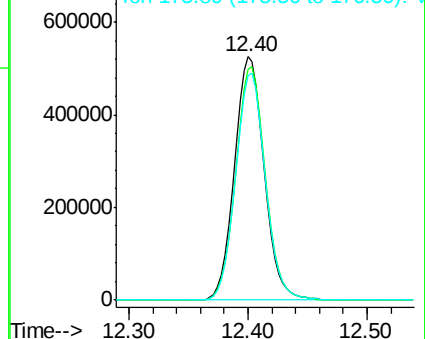
176 93.4 0.0 187.4

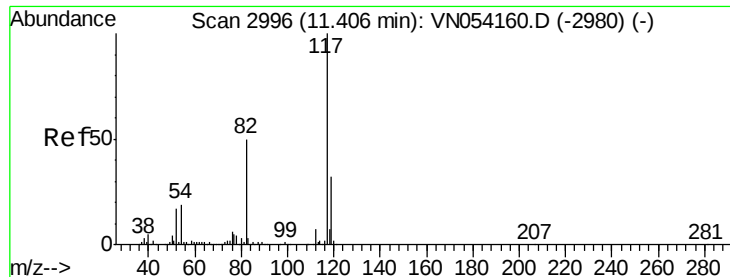


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

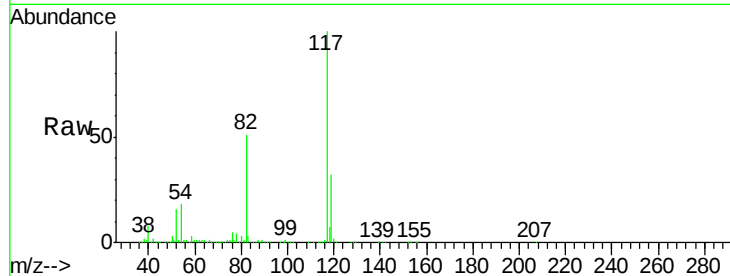




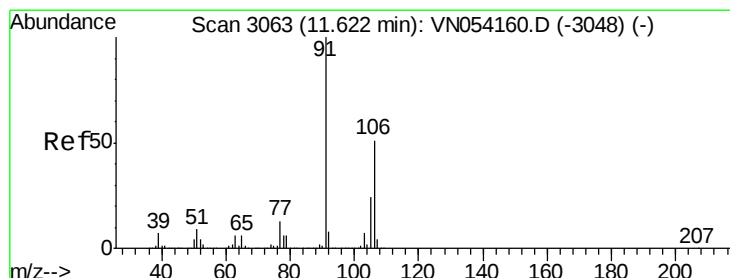
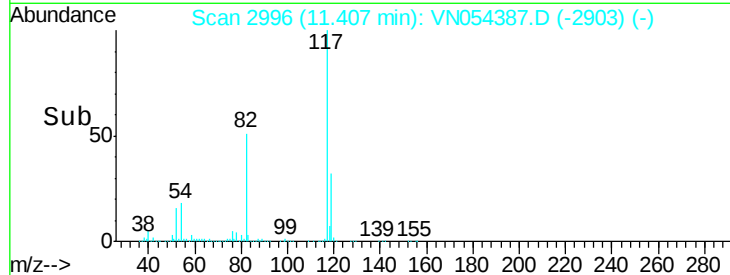
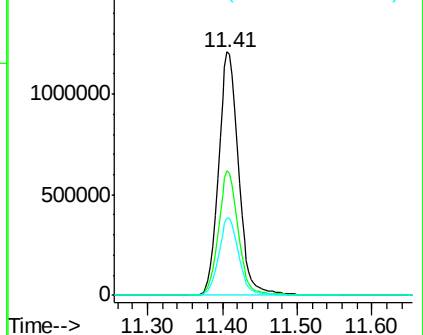
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054387.D
Acq: 18 Mar 2019 12:10

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 223322
Ion Ratio Lower Upper
117 100
82 51.0 40.0 60.0
119 31.8 25.8 38.6

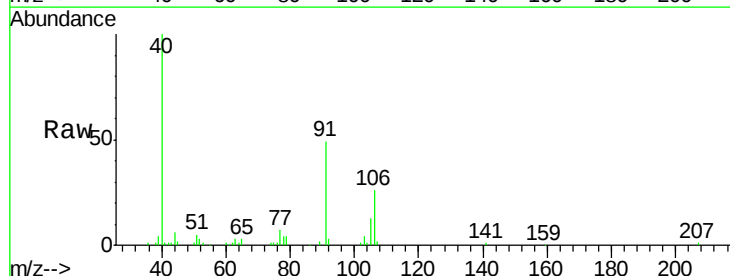


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

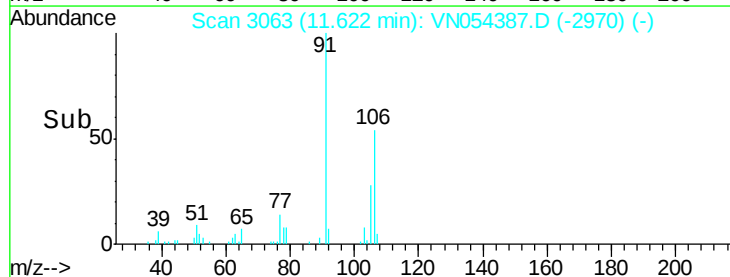
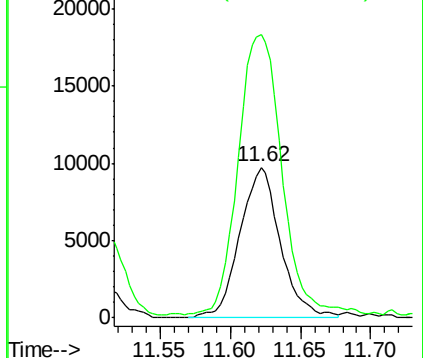


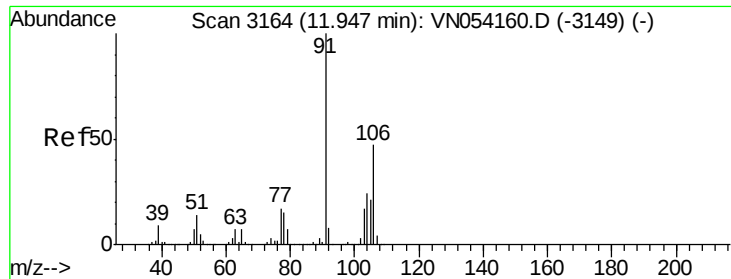
#68
m/p-Xylenes
Concen: 0.615 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN054387.D
Acq: 18 Mar 2019 12:10

Tgt Ion:106 Resp: 19540
Ion Ratio Lower Upper
106 100
91 200.3 159.4 239.2



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

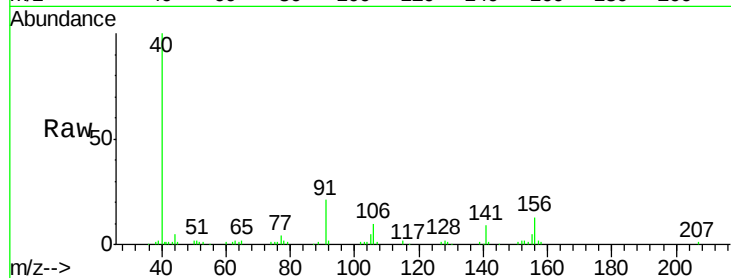




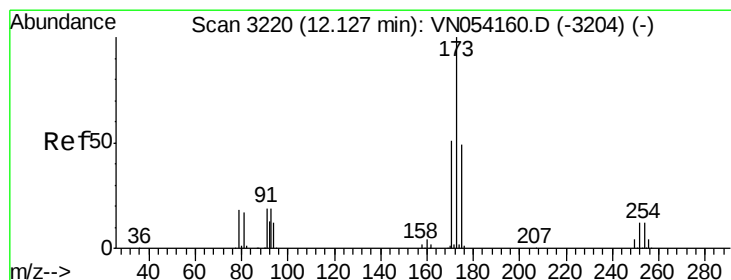
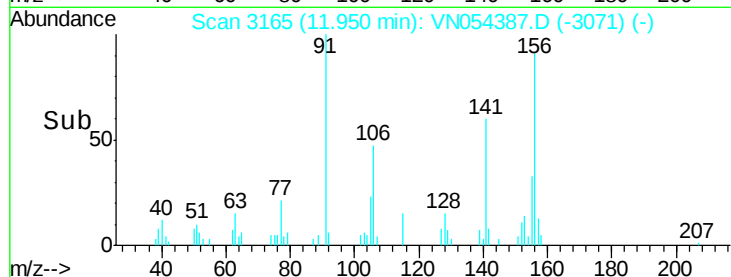
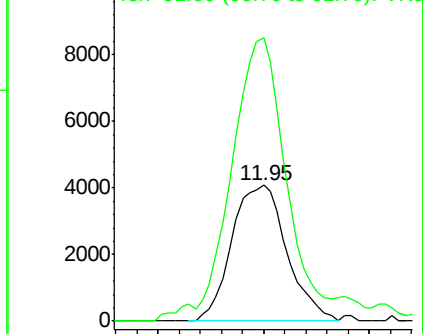
#69
o-Xylene
Concen: 0.238 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN054387.D
Acq: 18 Mar 2019 12:10

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:106 Resp: 7370
Ion Ratio Lower Upper
106 100
91 208.1 105.7 317.1

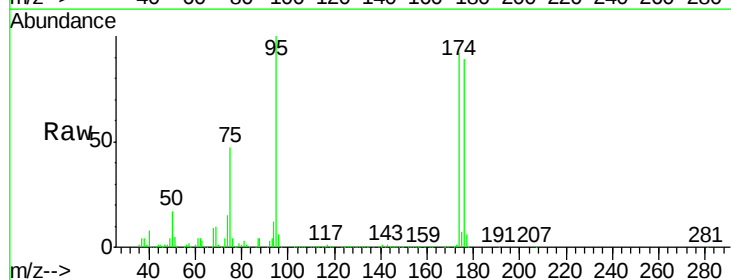


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

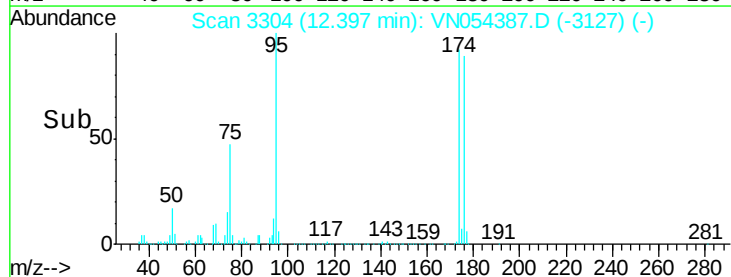
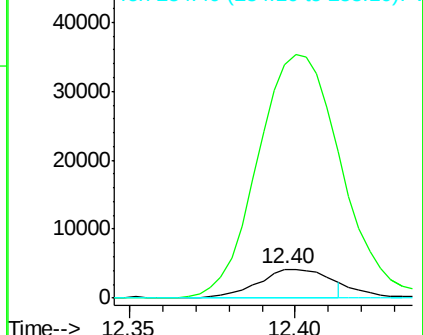


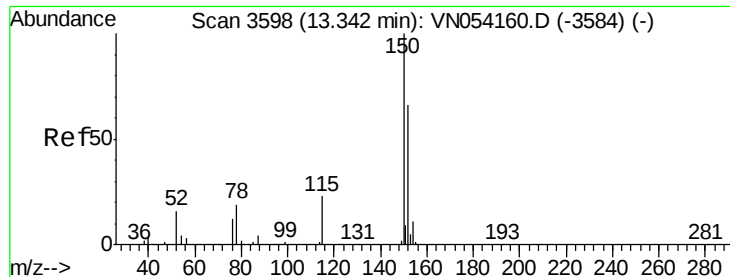
#71
Bromoform
Concen: 2.782 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN054387.D
Acq: 18 Mar 2019 12:10

Tgt Ion:173 Resp: 6142
Ion Ratio Lower Upper
173 100
175 875.9 24.4 73.2#
254 0.0 0.1 0.1#



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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054387.D

Acq: 18 Mar 2019 12:10

Instrument :

MSVOA_N

ClientSampleId :

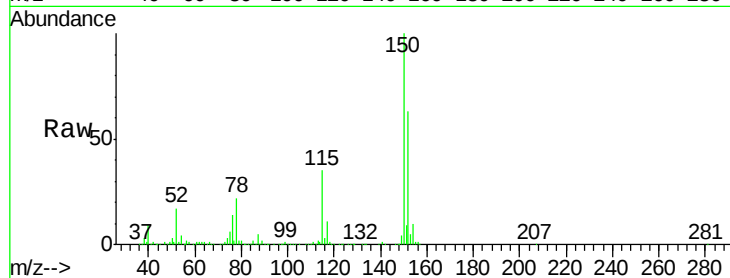
Tot Ion:152 Resp: 800161

Ion Ratio Lower Upper

152 100

115 55.0 27.2 81.6

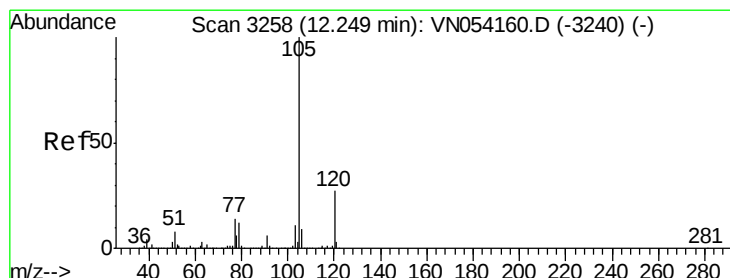
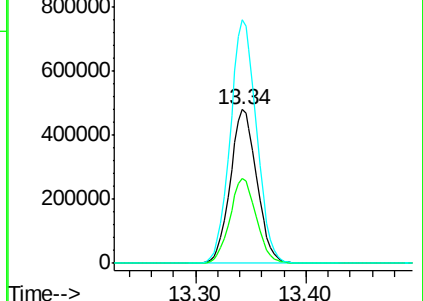
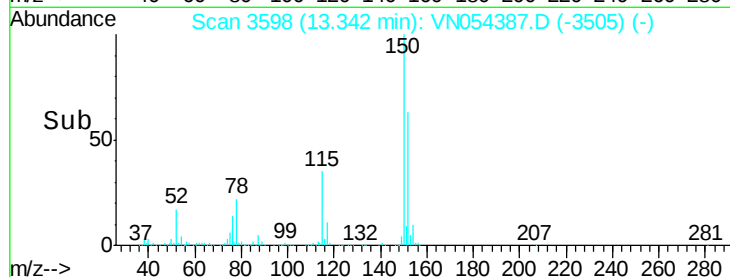
150 157.2 0.0 349.2



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



#73

Isopropylbenzene

Concen: 0.279 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054387.D

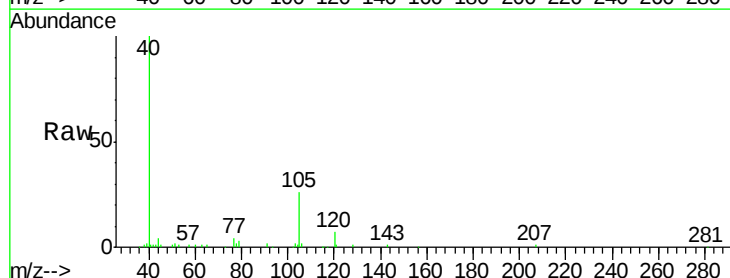
Acq: 18 Mar 2019 12:10

Tgt Ion:105 Resp: 17831

Ion Ratio Lower Upper

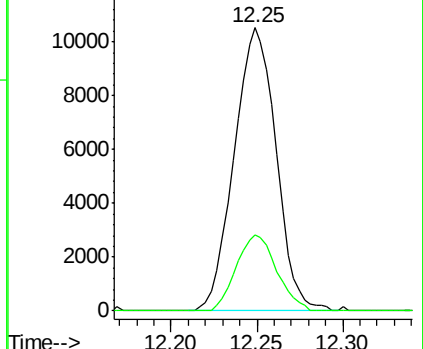
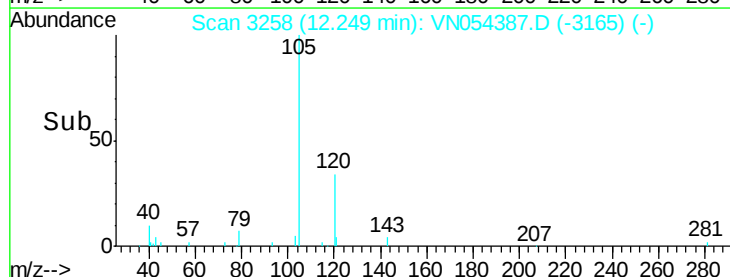
105 100

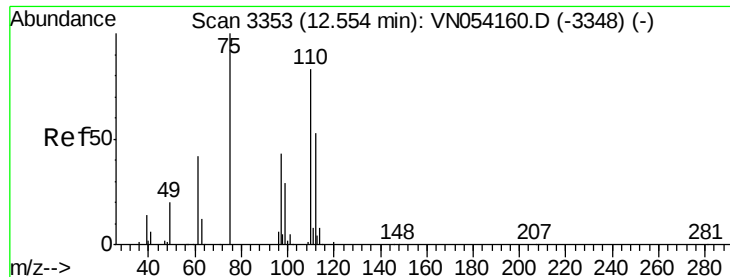
120 25.7 13.8 41.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 36.660 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054387.D

Acq: 18 Mar 2019 12:10

Instrument :

MSVOA_N

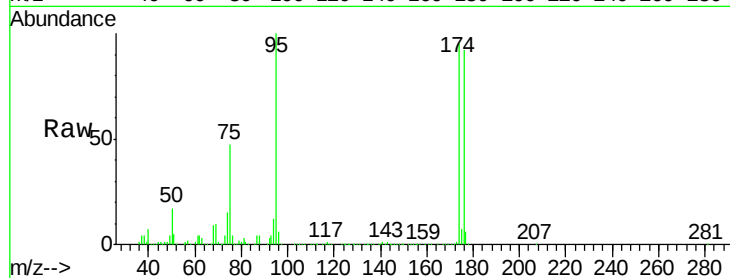
ClientSampled :

Tot Ion: 75 Resp: 431366

Ion Ratio Lower Upper

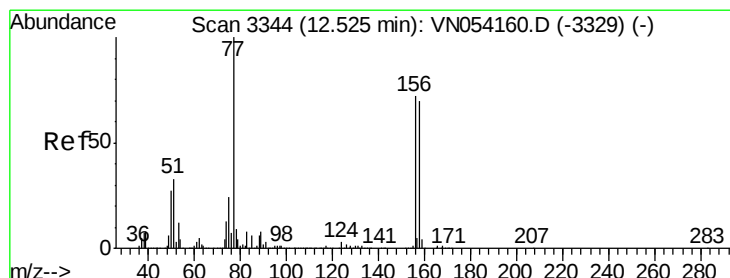
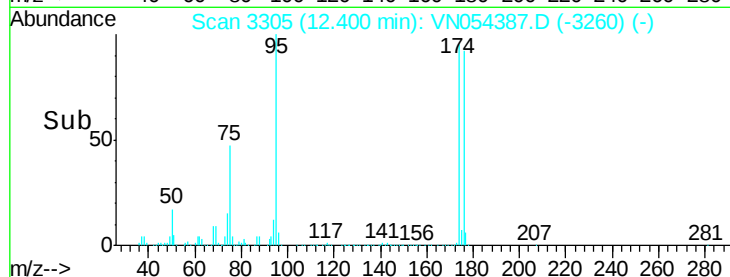
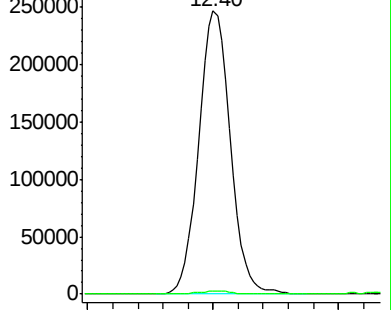
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#77

Bromobenzene

Concen: 8.392 ug/l

RT: 12.57 min Scan# 3357

Delta R.T. 0.04 min

Lab File: VN054387.D

Acq: 18 Mar 2019 12:10

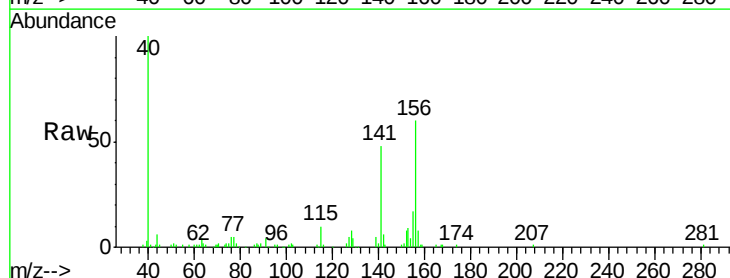
Tgt Ion: 156 Resp: 142155

Ion Ratio Lower Upper

156 100

77 0.0 81.5 244.4#

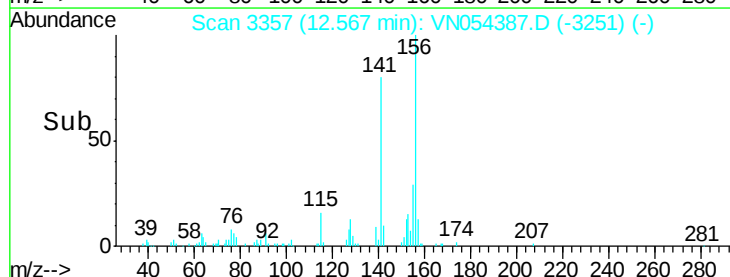
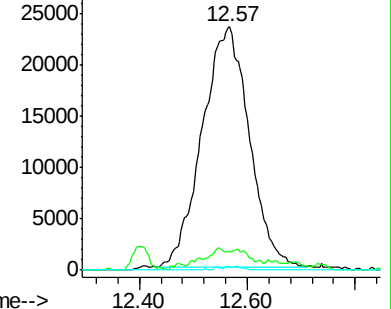
158 0.2 49.0 147.2#

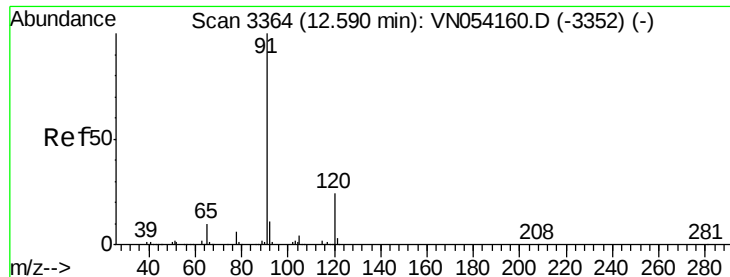


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V





#78

n-propylbenzene

Concen: 0.278 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN054387.D

Acq: 18 Mar 2019 12:10

Instrument :

MSVOA_N

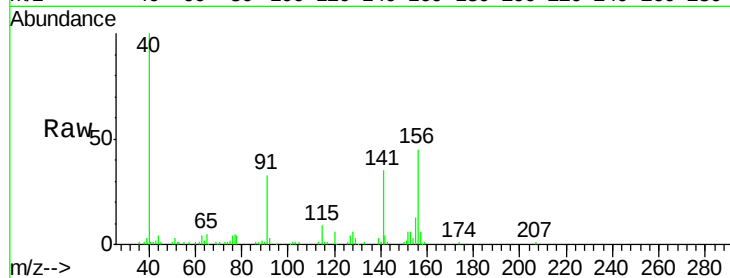
ClientSampled :

Tot Ion: 91 Resp: 19341

Ion Ratio Lower Upper

91 100

120 25.8 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

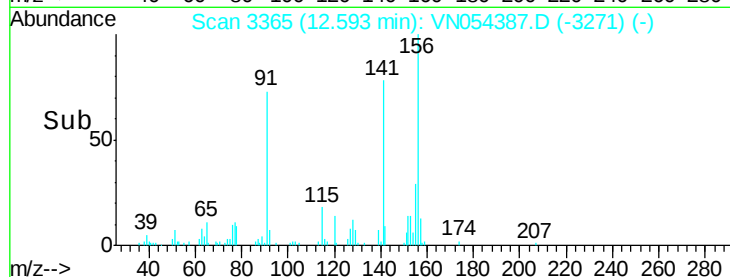
15000

10000

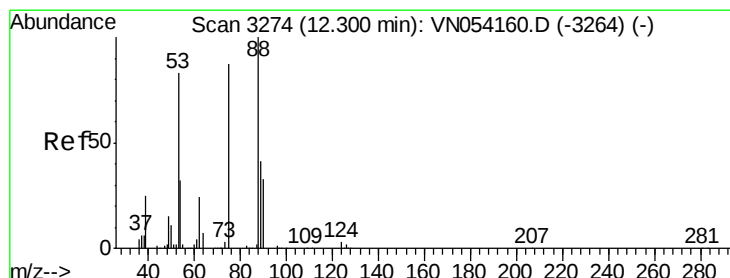
5000

0

Time-->



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 125.320 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054387.D

Acq: 18 Mar 2019 12:10

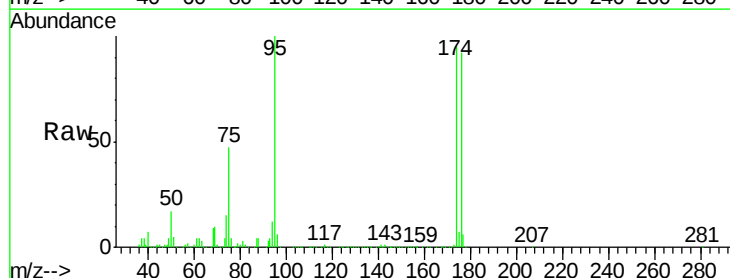
Tgt Ion: 75 Resp: 431366

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

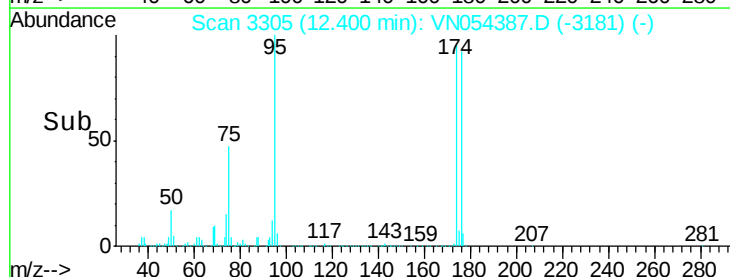
300000

200000

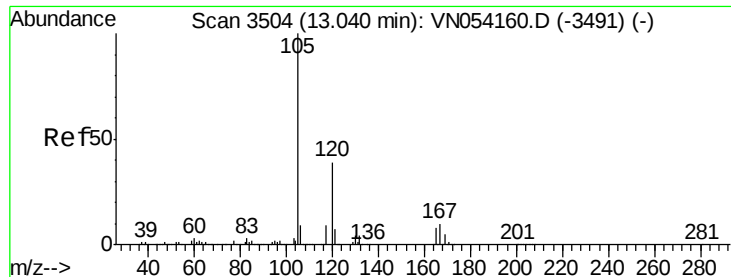
100000

0

Time-->



Time-->



#84

1,2,4-Trimethylbenzene

Concen: 0.611 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN054387.D

Acq: 18 Mar 2019 12:10

Instrument :

MSVOA_N

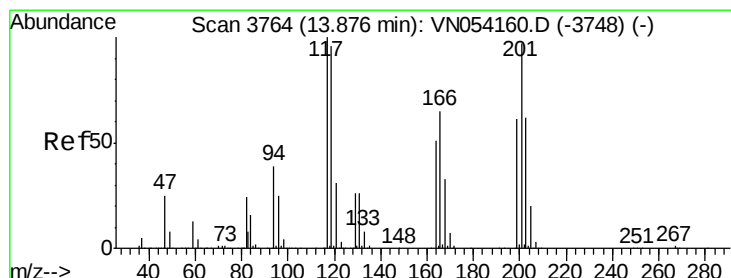
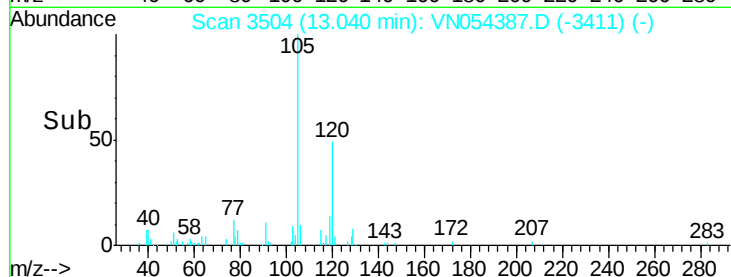
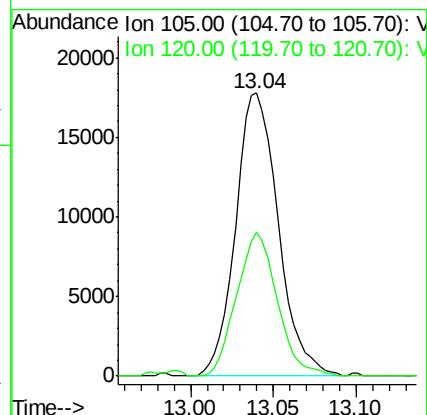
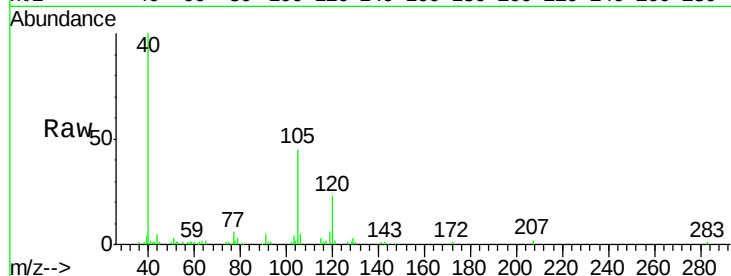
ClientSampleId :

Tot Ion:105 Resp: 31903

Ion Ratio Lower Upper

105 100

120 48.3 23.4 70.3



#90

Hexachloroethane

Concen: 0.501 ug/l

RT: 13.89 min Scan# 3768

Delta R.T. 0.01 min

Lab File: VN054387.D

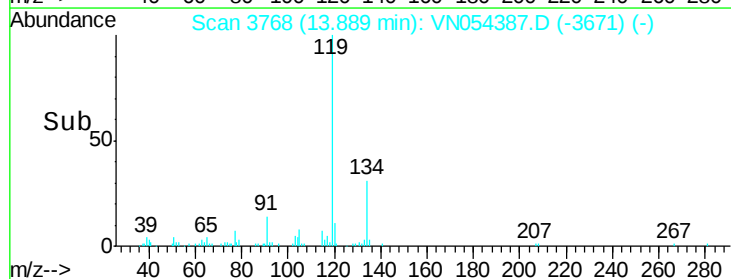
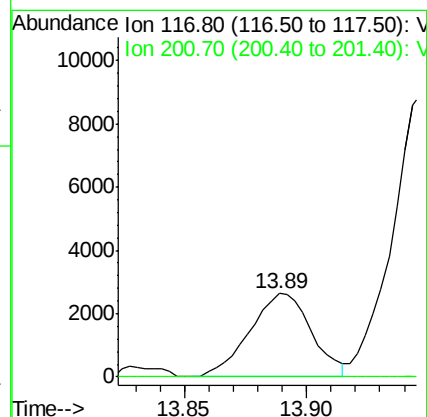
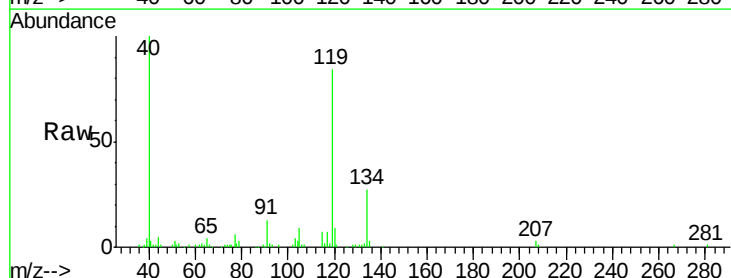
Acq: 18 Mar 2019 12:10

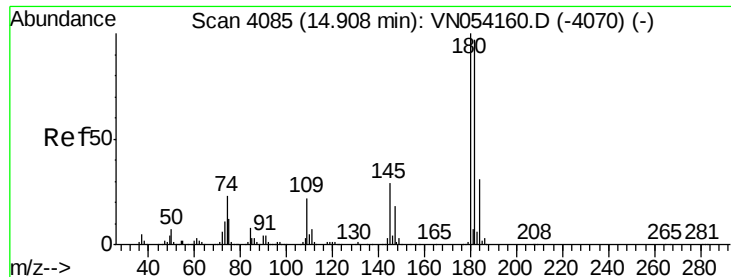
Tgt Ion:117 Resp: 4630

Ion Ratio Lower Upper

117 100

201 0.0 48.1 144.4#

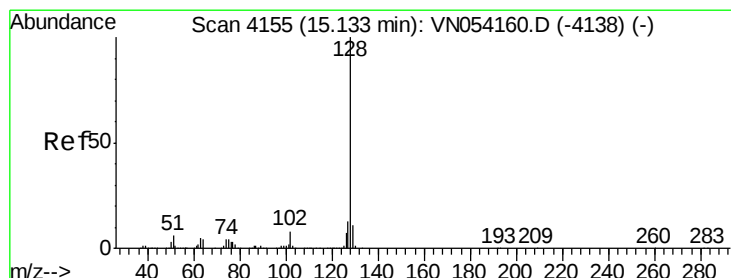
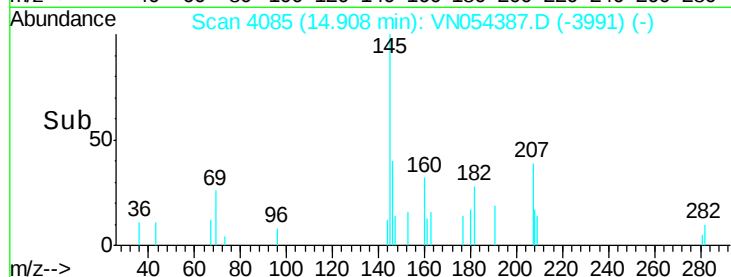
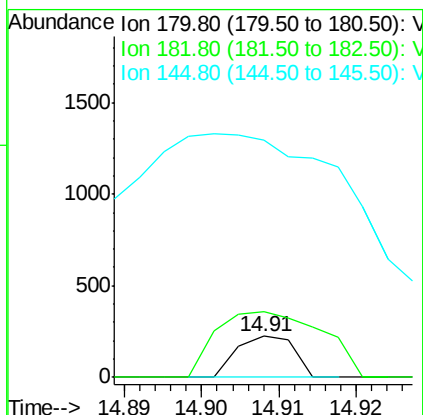
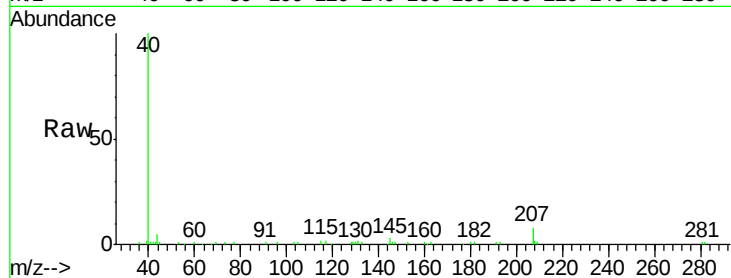




#93
 1,2,4-Trichlorobenzene
 Concen: 2.523 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054387.D
 Acq: 18 Mar 2019 12:10

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 116
 Ion Ratio Lower Upper
 180 100
 182 294.8 48.0 144.2#
 145 1711.2 14.2 42.8#



#95
 Naphthalene
 Concen: 4.004 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN054387.D
 Acq: 18 Mar 2019 12:10

Tgt Ion:128 Resp: 20166
 Ion Ratio Lower Upper
 128 100
 127 11.5 10.1 15.1
 129 10.8 8.7 13.1

