

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020619\
 Data File : VN053633.D
 Acq On : 6 Feb 2019 14:30
 Operator : JC/SP
 Sample : PB116860ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB116860ZHE#06

Quant Time: Feb 07 03:42:16 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	748651	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1245665	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1150887	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	482418	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	395261	52.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.26%	
35) Dibromofluoromethane	7.59	113	389814	49.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.06%	
50) Toluene-d8	10.09	98	1502821	50.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.70%	
62) 4-Bromofluorobenzene	12.40	95	505710	51.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.62%	

Target Compounds

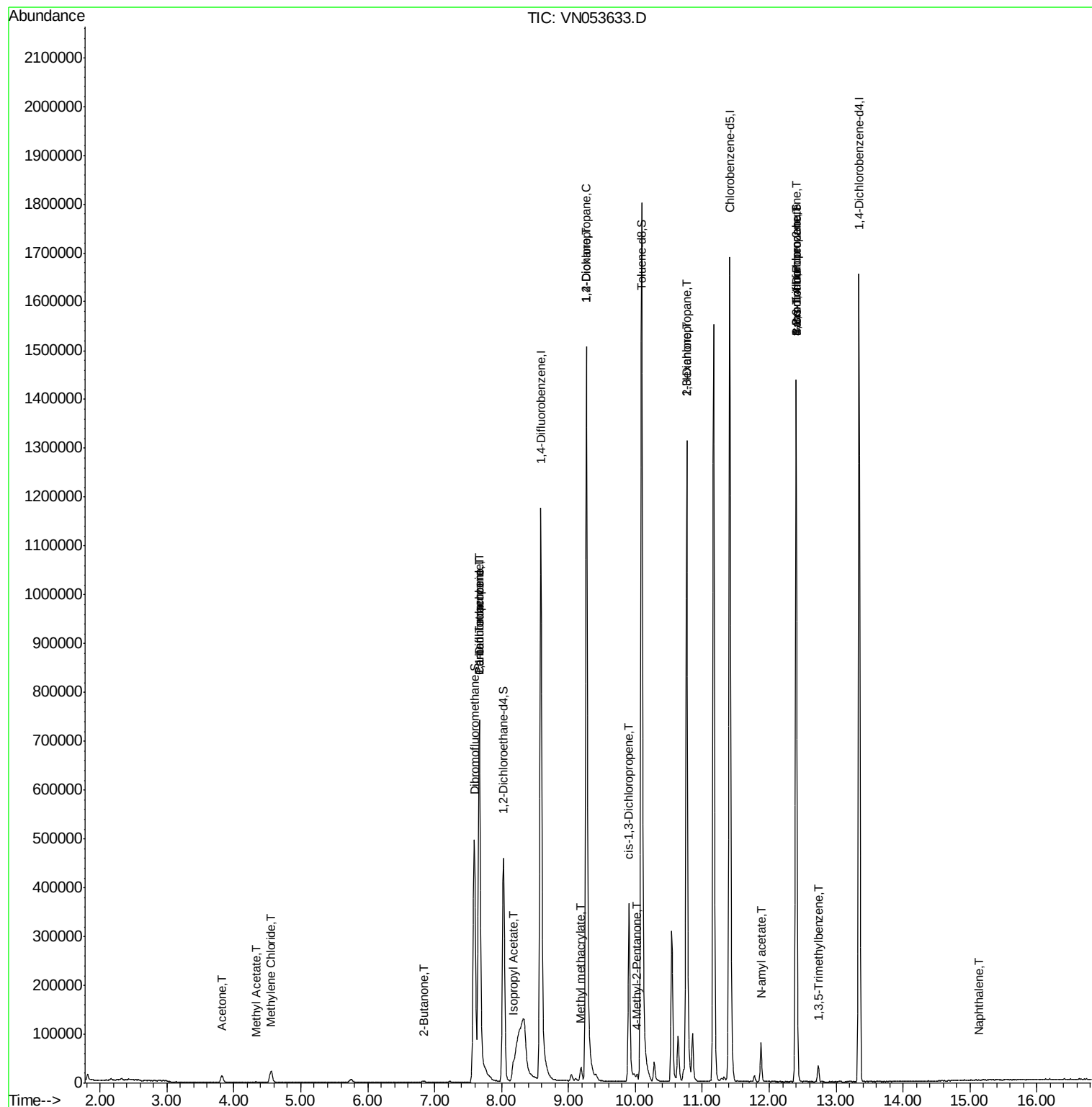
						Qvalue
16) Acetone	3.82	43	25695	13.338	ug/l	95
18) Methyl Acetate	4.33	43	1307	0.229	ug/l #	75
20) Methylene Chloride	4.55	84	17817	2.204	ug/l	94
25) 2-Butanone	6.85	43	4765	1.734	ug/l	95
31) Cyclohexane	7.75	56	546	Below Cal		97
36) 1,1-Dichloropropene	7.67	75	46060	4.102	ug/l #	48
38) Carbon Tetrachloride	7.67	117	61240	5.414	ug/l #	16
43) Isopropyl Acetate	8.17	43	29187	2.410	ug/l #	89
45) 1,2-Dichloropropane	9.27	63	2252	0.254	ug/l #	43
48) Methyl methacrylate	9.18	41	9063	1.568	ug/l #	12
49) 1,4-Dioxane	9.27	88	32	39.465	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	9375	1.575	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	80386	6.103	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	15171	1.199	ug/l #	43
59) 2-Hexanone	10.76	43	199849	49.463	ug/l #	51
71) Bromoform	12.40	173	2724	0.465	ug/l #	1
74) N-amyl acetate	11.88	43	23669	2.902	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	234592	37.860	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	18598	0.661	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	234592	106.458	ug/l #	15
95) Naphthalene	15.14	128	202	1.745	ug/l #	69

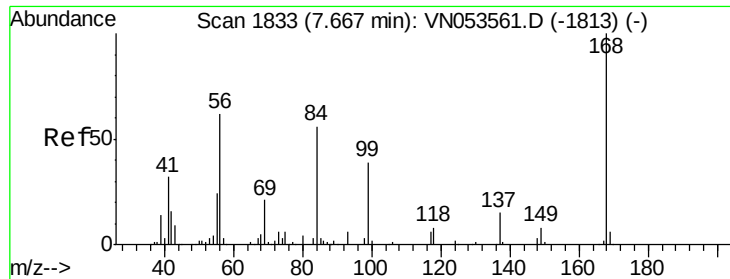
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN053633.D

Acq: 6 Feb 2019 14:30

Instrument :

MSVOA_N

ClientSampleId :

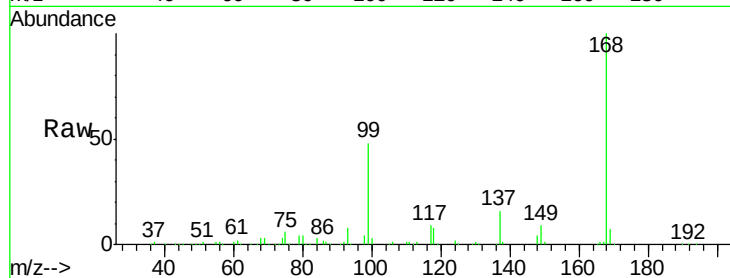
PB116860ZHE#06

Tot Ion:168 Resp: 748651

Ion Ratio Lower Upper

168 100

99 47.8 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053633.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053633.D (-1740) (-)

7.67

300000

250000

200000

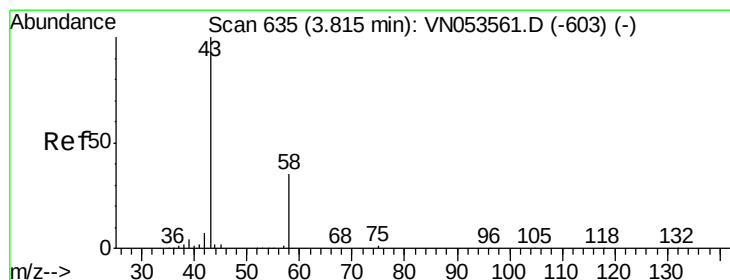
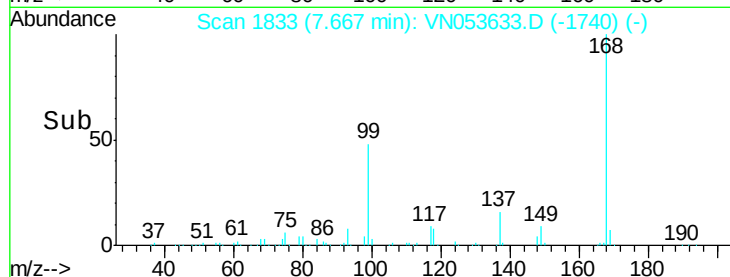
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: 13.338 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN053633.D

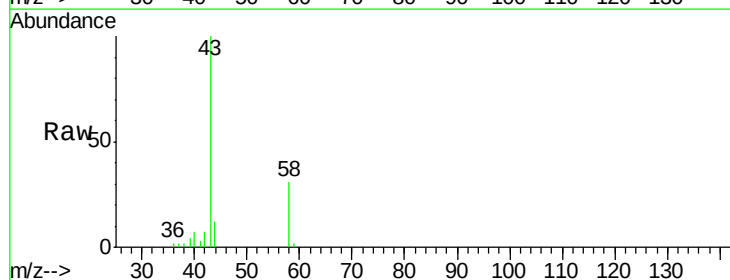
Acq: 6 Feb 2019 14:30

Tgt Ion: 43 Resp: 25695

Ion Ratio Lower Upper

43 100

58 30.8 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN053633.D (-542) (-)

Ion 58.00 (57.70 to 58.70): VN053633.D (-542) (-)

3.82

10000

8000

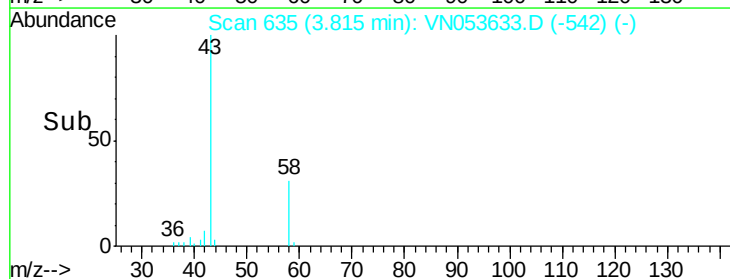
6000

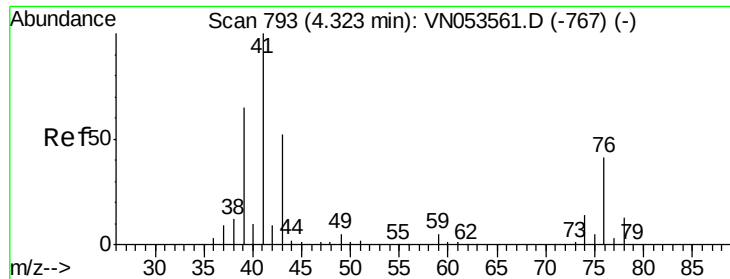
4000

2000

0

Time--> 3.70 3.80 3.90

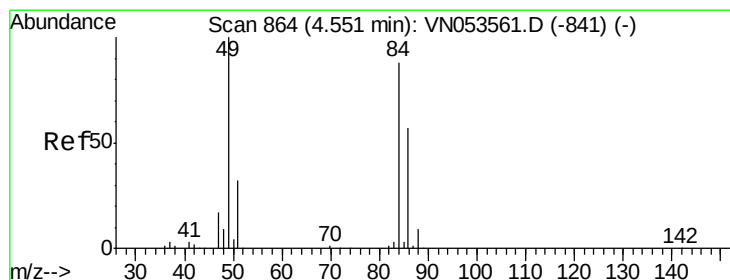
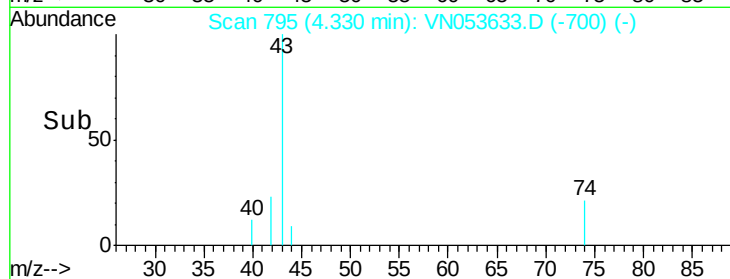
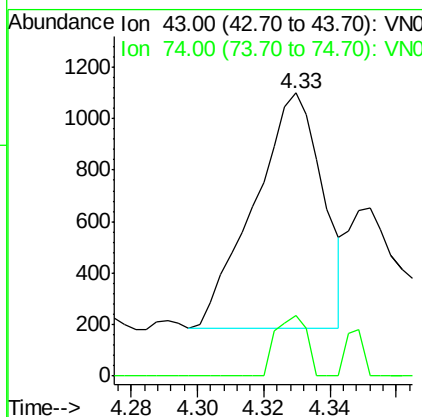
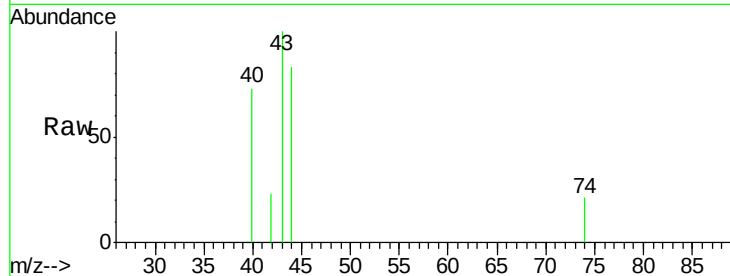




#18
Methvl Acetate
Concen: 0.229 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN053633.D
Acq: 6 Feb 2019 14:30

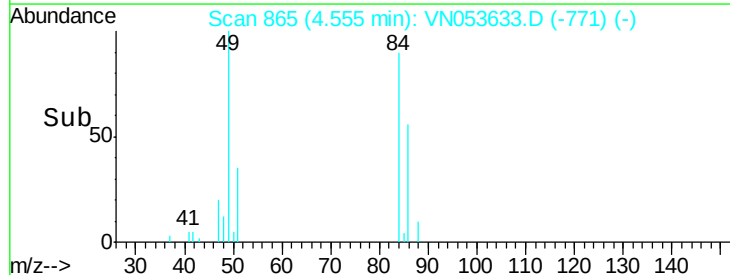
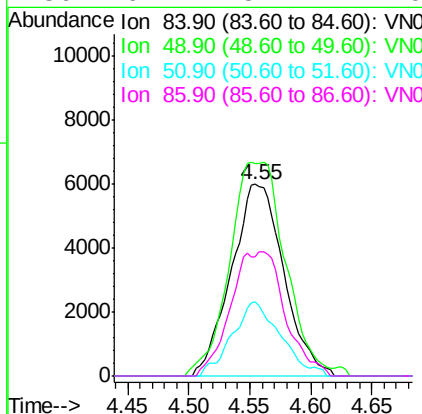
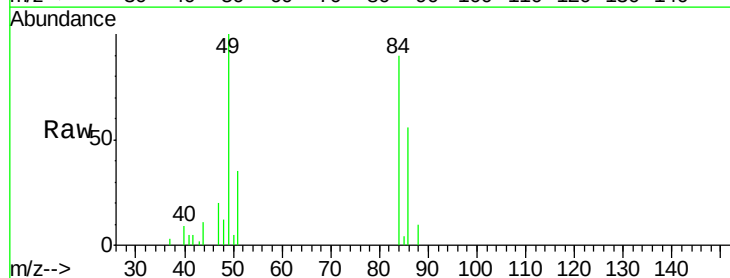
Instrument :
MSVOA_N
ClientSampleId :
PB116860ZHE#06

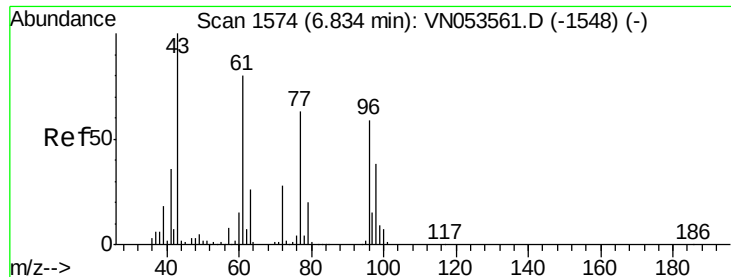
Tot Ion: 43 Resp: 1307
Ion Ratio Lower Upper
43 100
74 11.9 19.4 29.2#



#20
Methylene Chloride
Concen: 2.204 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053633.D
Acq: 6 Feb 2019 14:30

Tgt Ion: 84 Resp: 17817
Ion Ratio Lower Upper
84 100
49 108.1 94.3 141.5
51 38.7 29.4 44.2
86 62.2 51.4 77.0





#25

2-Butanone

Concen: 1.734 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VN053633.D

Acq: 6 Feb 2019 14:30

Instrument :

MSVOA_N

ClientSampleId :

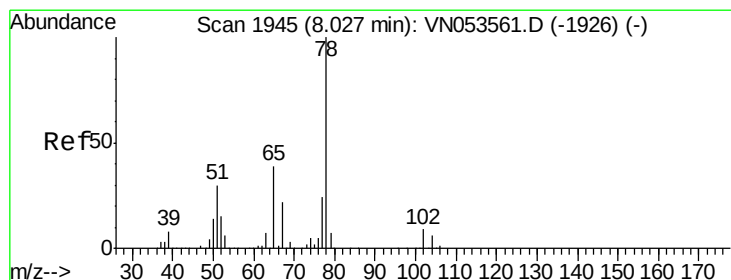
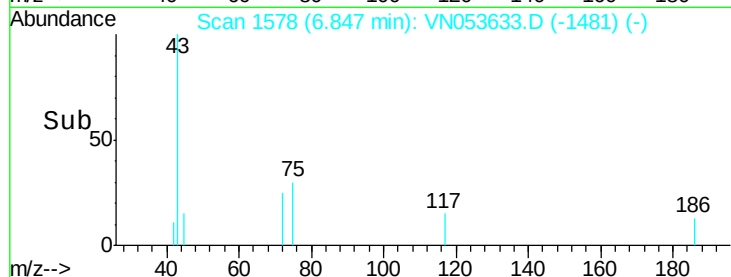
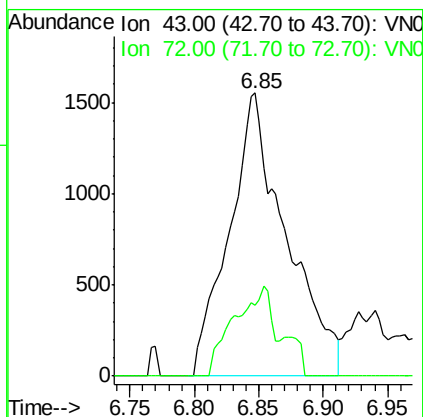
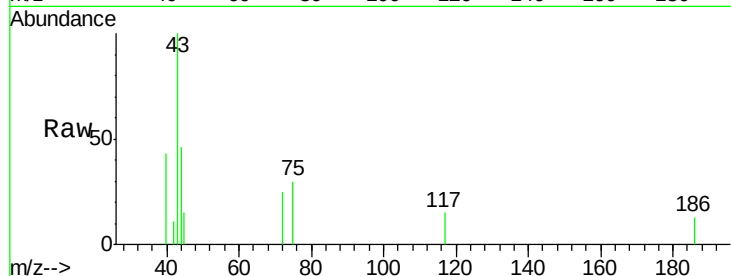
PB116860ZHE#06

Tot Ion: 43 Resp: 4765

Ion Ratio Lower Upper

43 100

72 25.1 22.0 33.0



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053633.D

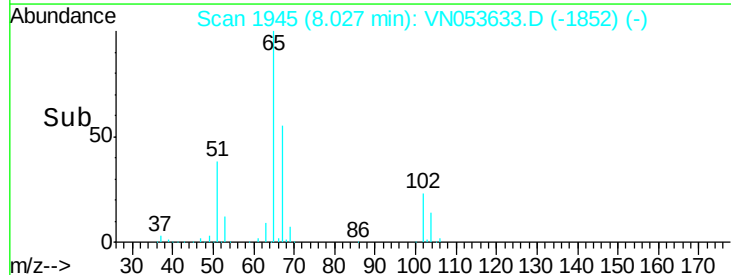
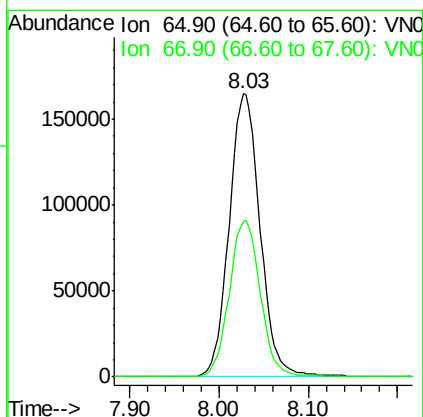
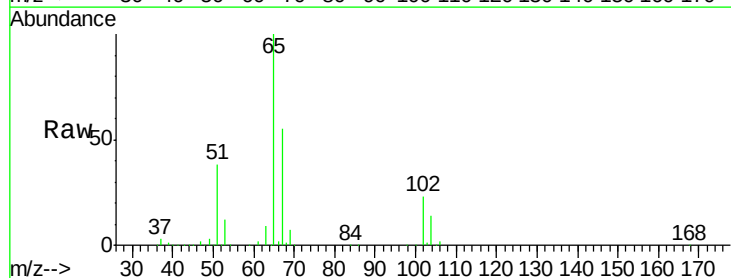
Acq: 6 Feb 2019 14:30

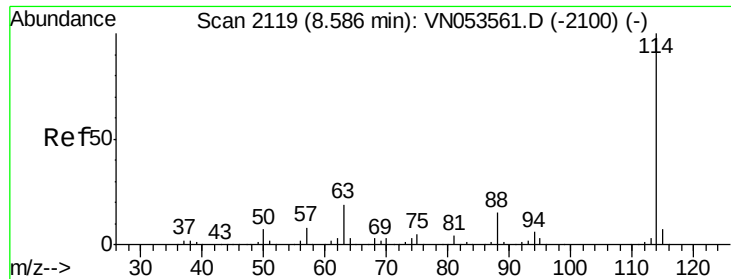
Tgt Ion: 65 Resp: 395261

Ion Ratio Lower Upper

65 100

67 55.6 0.0 111.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053633.D

Acq: 6 Feb 2019 14:30

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#06

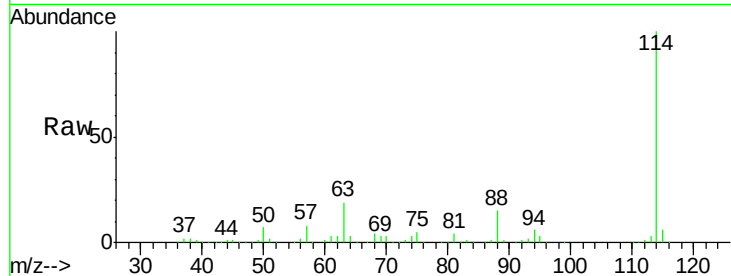
Tot Ion:114 Resp: 1245665

Ion Ratio Lower Upper

114 100

63 19.2 0.0 38.6

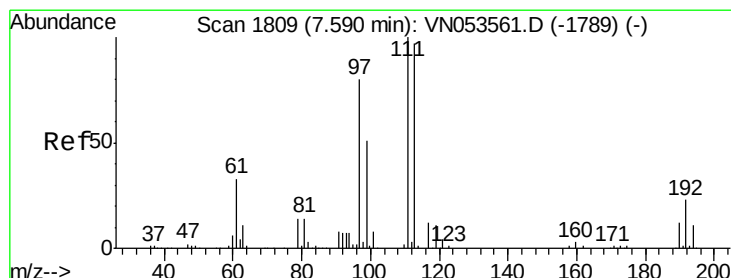
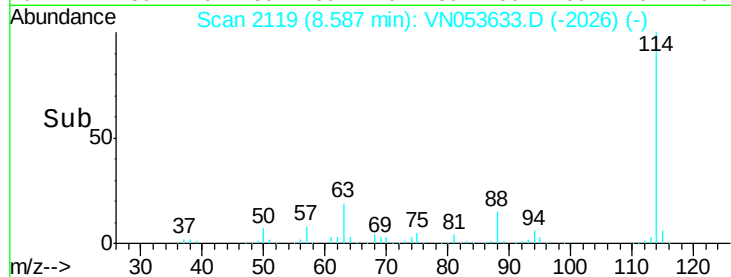
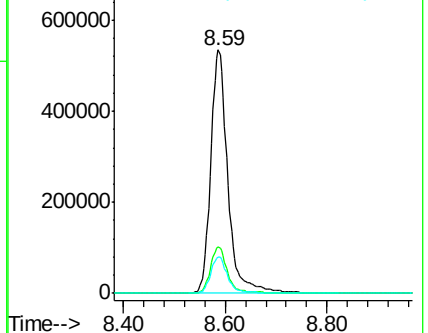
88 14.9 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053633.D

Acq: 6 Feb 2019 14:30

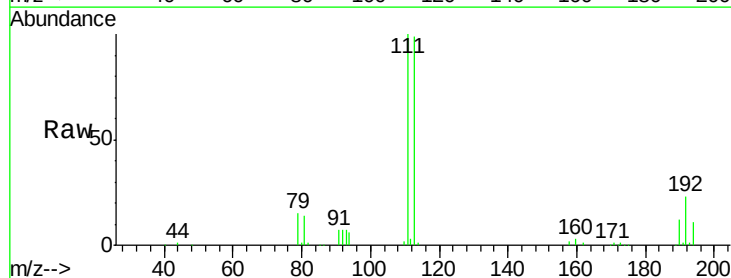
Tgt Ion:113 Resp: 389814

Ion Ratio Lower Upper

113 100

111 102.9 81.1 121.7

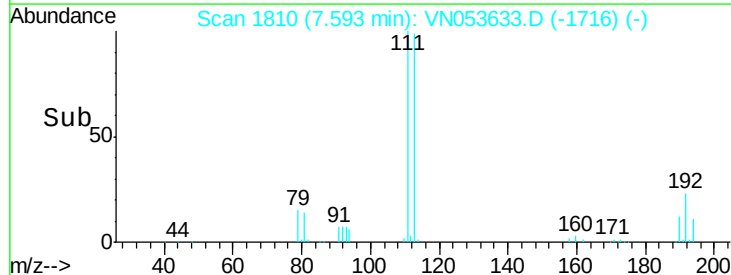
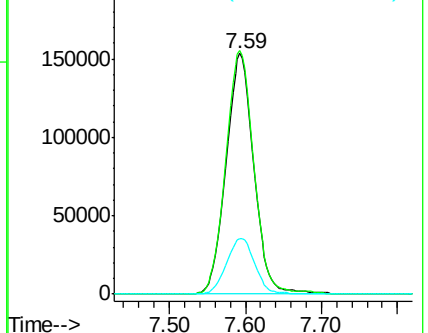
192 23.6 18.2 27.2

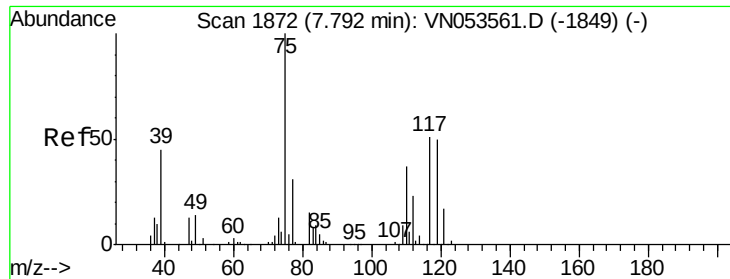


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

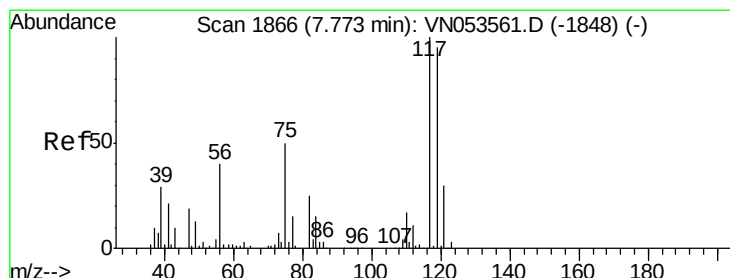
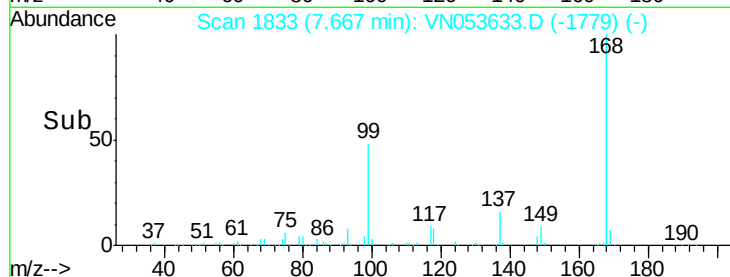
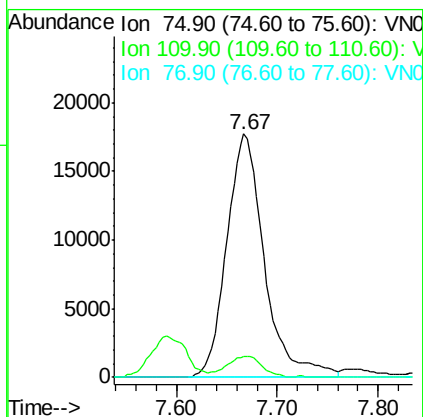
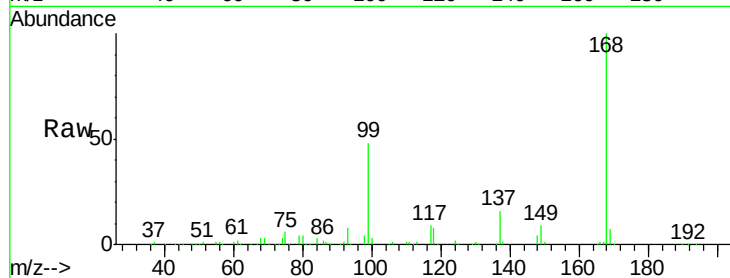




#36
 1,1-Dichloropropene
 Concen: 4.102 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053633.D
 Acq: 6 Feb 2019 14:30

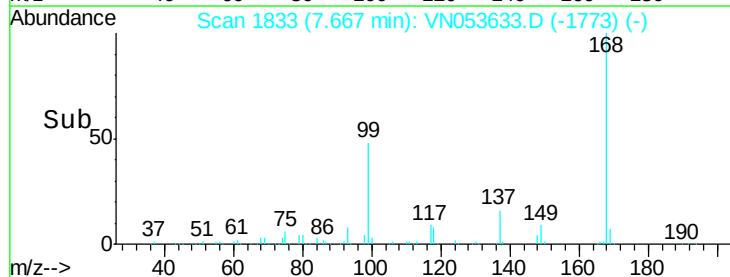
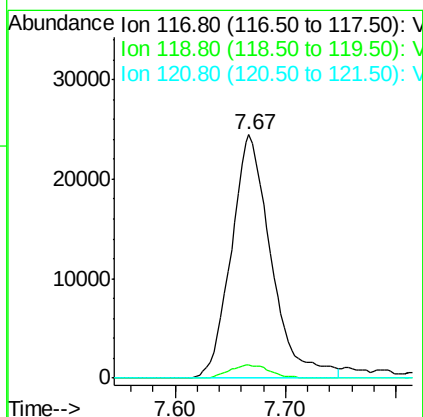
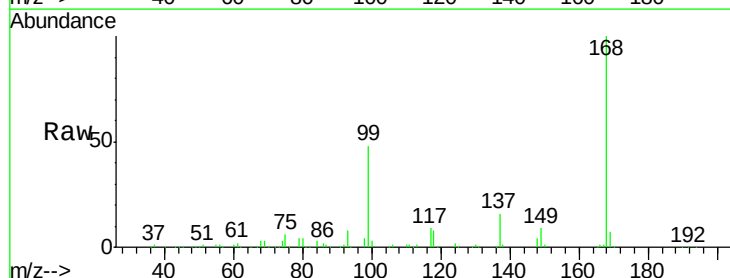
Instrument :
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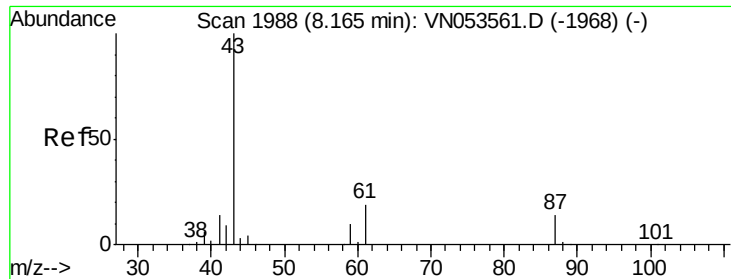
Tot Ion	75	Resp	46060
Ion Ratio	100	Lower	Upper
75	100		
110	8.1	18.1	54.3#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 5.414 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN053633.D
 Acq: 6 Feb 2019 14:30

Tgt Ion	117	Resp	61240
Ion Ratio	100	Lower	Upper
117	100		
119	5.3	77.2	115.8#
121	0.0	24.6	37.0#





#43

Isopropyl Acetate

Concen: 2.410 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN053633.D

Acq: 6 Feb 2019 14:30

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#06

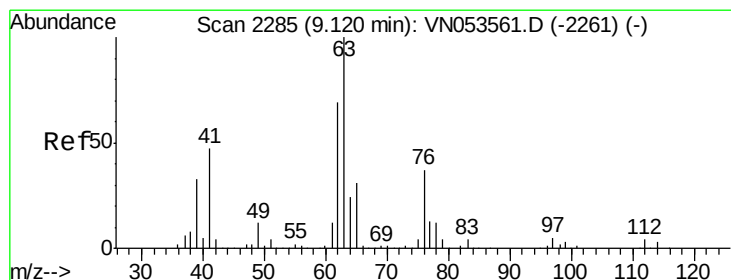
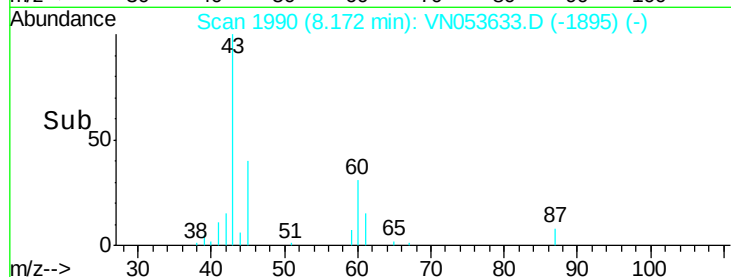
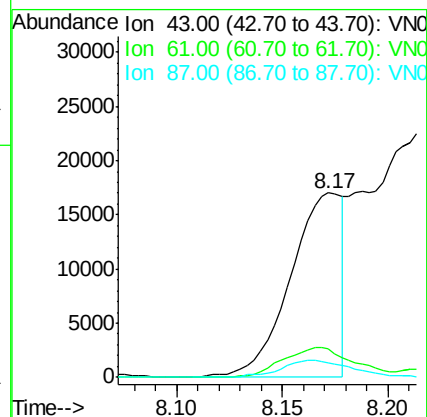
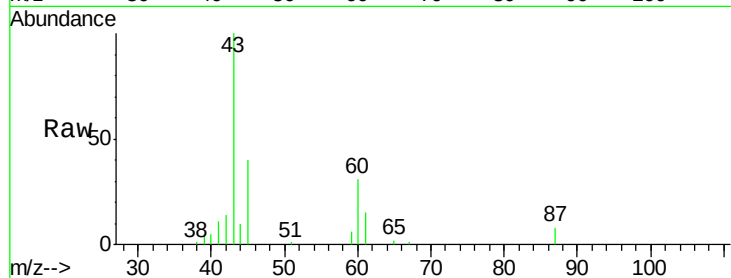
Tot Ion: 43 Resp: 29187

Ion Ratio Lower Upper

43 100

61 22.2 23.9 35.9#

87 12.4 11.0 16.6



#45

1,2-Dichloropropane

Concen: 0.254 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN053633.D

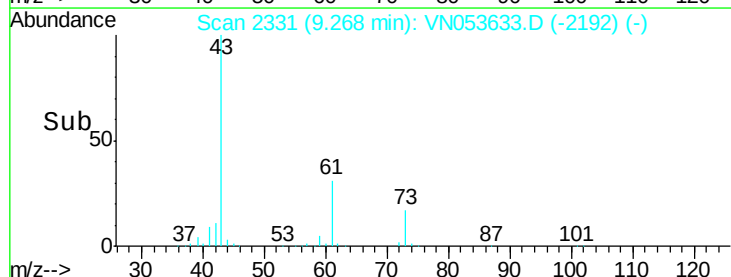
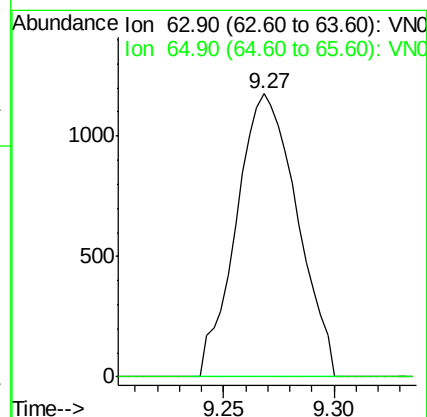
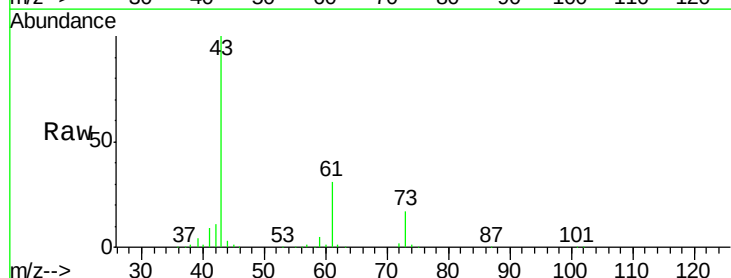
Acq: 6 Feb 2019 14:30

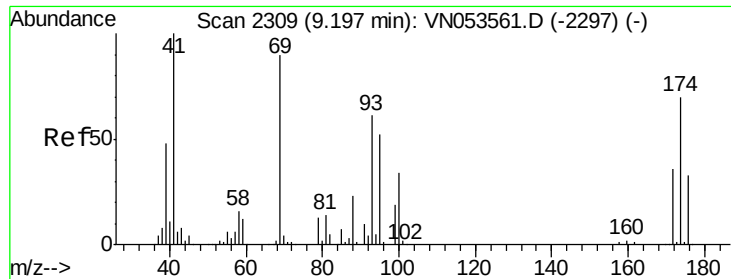
Tgt Ion: 63 Resp: 2252

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#

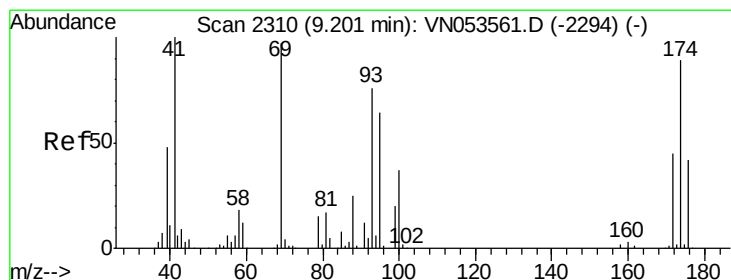
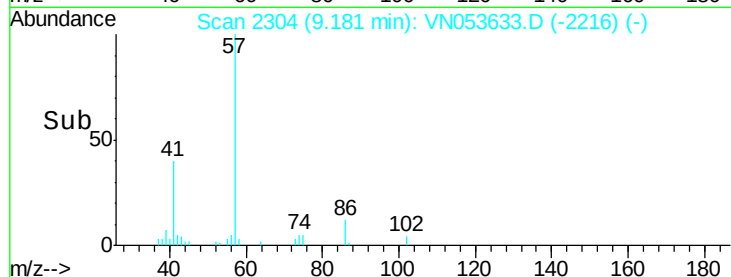
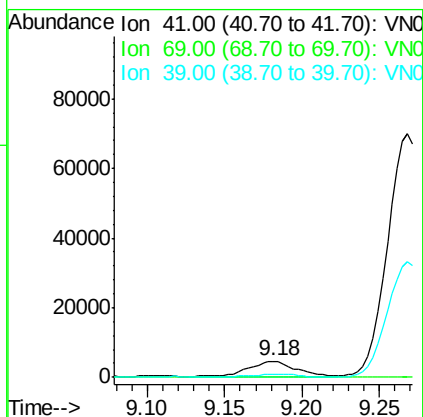
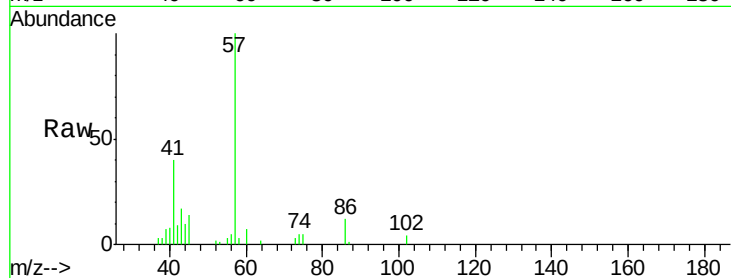




#48
Methvl methacrylate
Concen: 1.568 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN053633.D
Acq: 6 Feb 2019 14:30

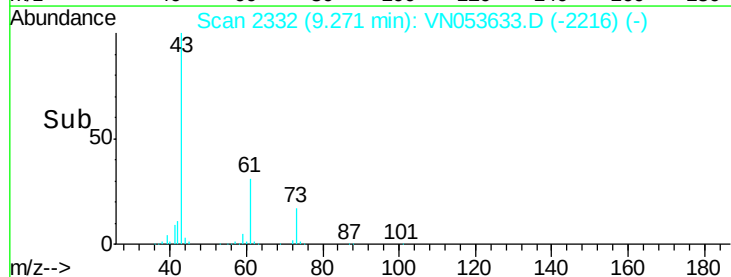
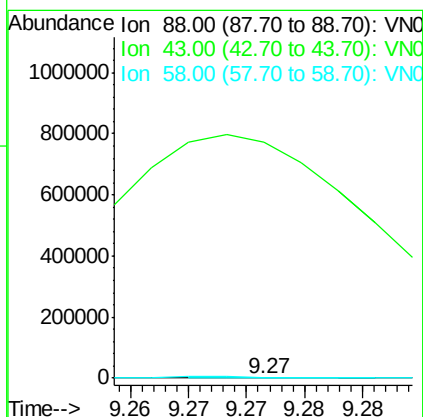
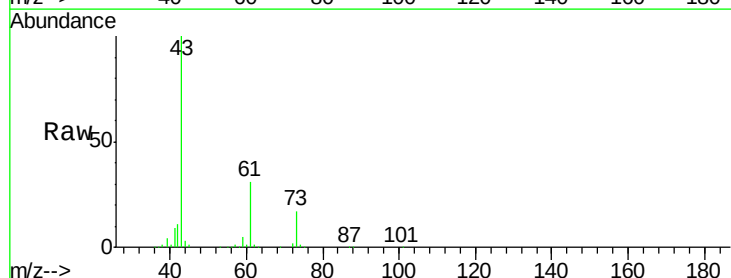
Instrument :
MSVOA_N
ClientSampleId :
PB116860ZHE#06

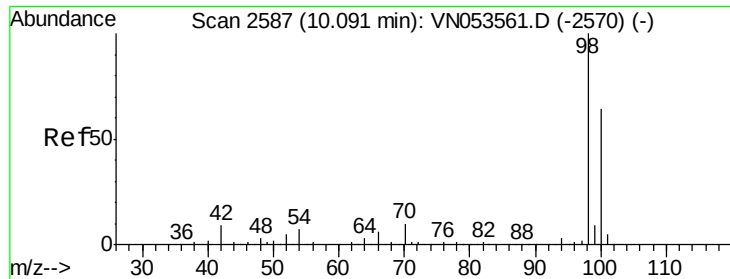
Tot Ion: 41 Resp: 9063
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 0.0 40.0 60.0#



#49
1,4-Dioxane
Concen: 39.465 ug/l
RT: 9.27 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN053633.D
Acq: 6 Feb 2019 14:30

Tgt Ion: 88 Resp: 32
Ion Ratio Lower Upper
88 100
43 5187140.6 27.8 41.6#
58 23109.4 56.5 84.7#





#50

Toluene-d8

Concen: 39.465 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053633.D

Acq: 6 Feb 2019 14:30

Instrument :

MSVOA_N

ClientSampleId :

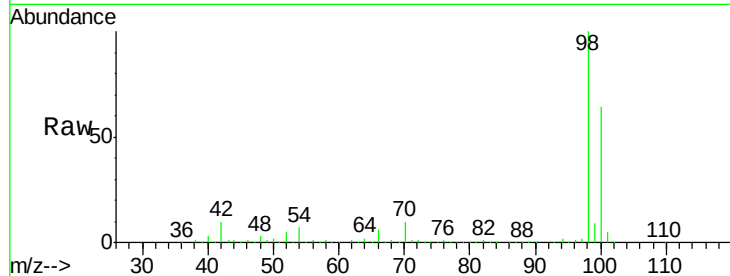
PB116860ZHE#06

Tot Ion: 98 Resp: 1502821

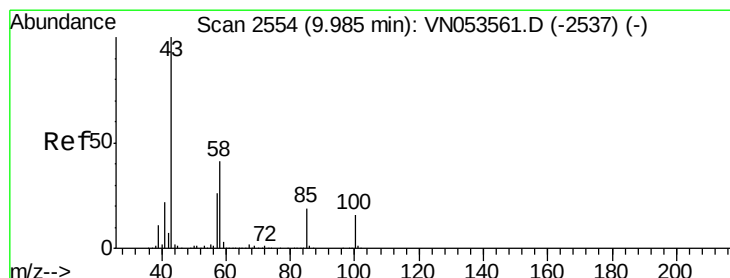
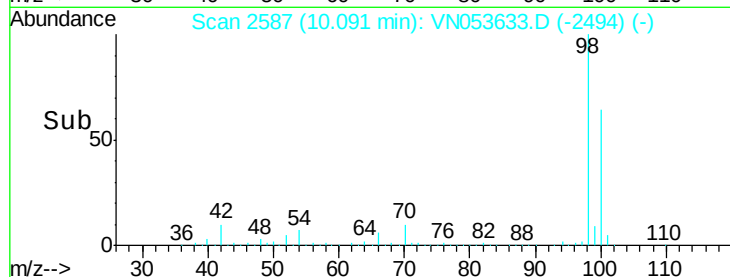
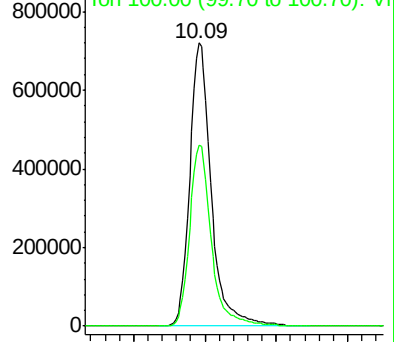
Ion Ratio Lower Upper

98 100

100 64.5 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN053561.D (-2570) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.575 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053633.D

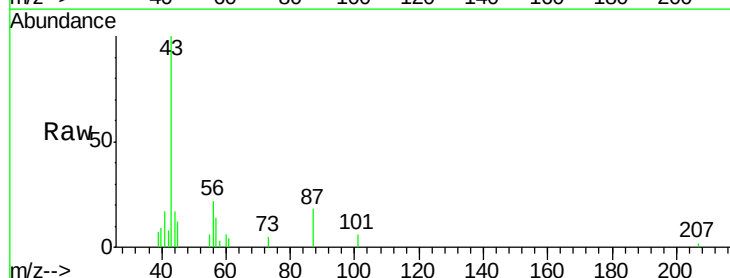
Acq: 6 Feb 2019 14:30

Tgt Ion: 43 Resp: 9375

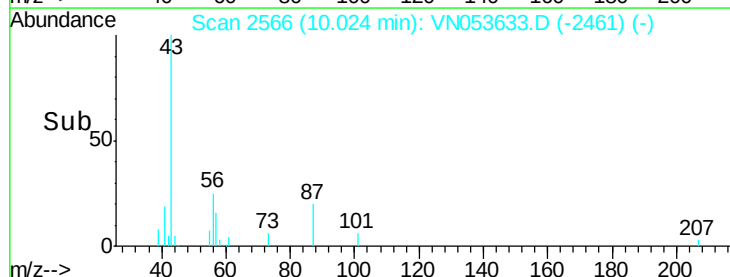
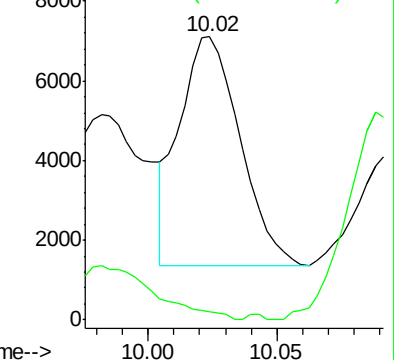
Ion Ratio Lower Upper

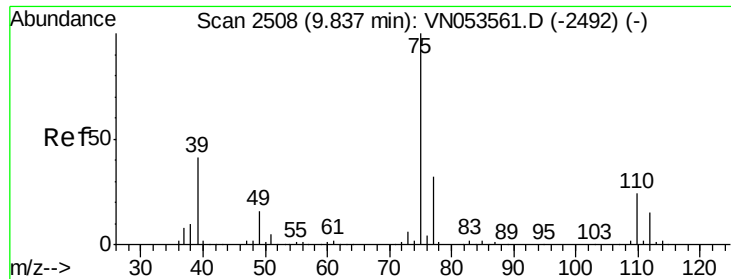
43 100

58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN053561.D (-2537) (-)





#54

cis-1,3-Dichloropropene

Concen: 6.103 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053633.D

Acq: 6 Feb 2019 14:30

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#06

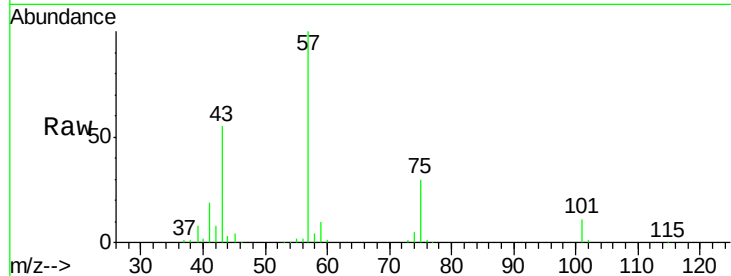
Tot Ion: 75 Resp: 80386

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

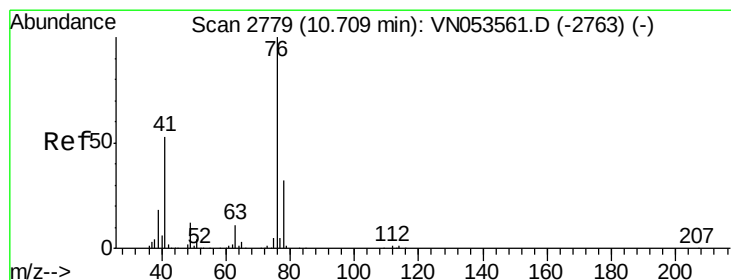
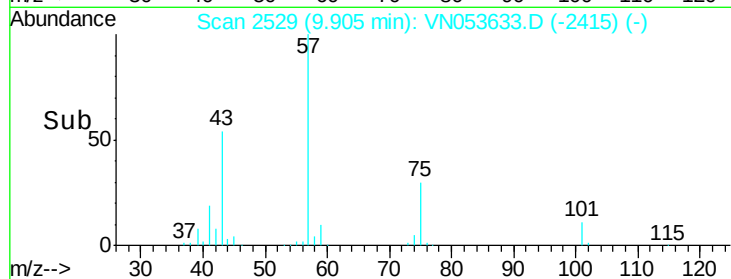
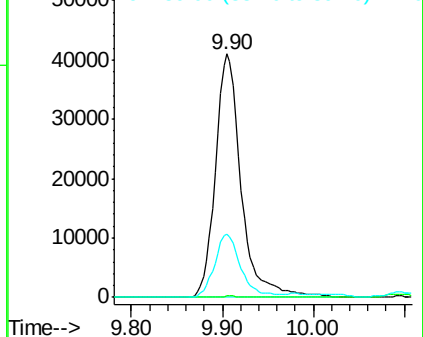
39 25.9 33.4 50.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.199 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053633.D

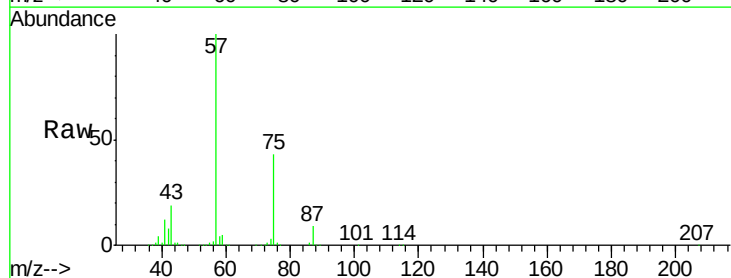
Acq: 6 Feb 2019 14:30

Tgt Ion: 76 Resp: 15171

Ion Ratio Lower Upper

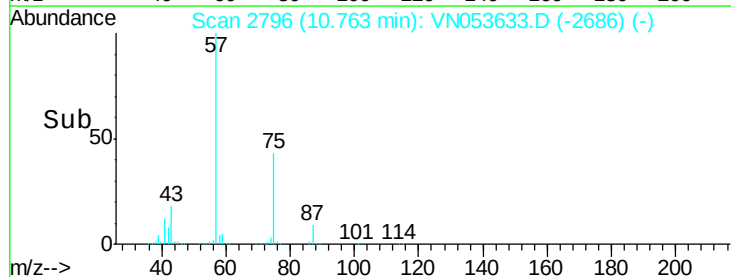
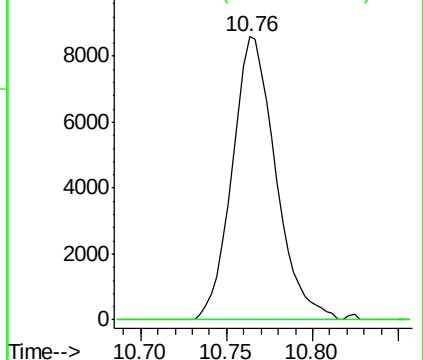
76 100

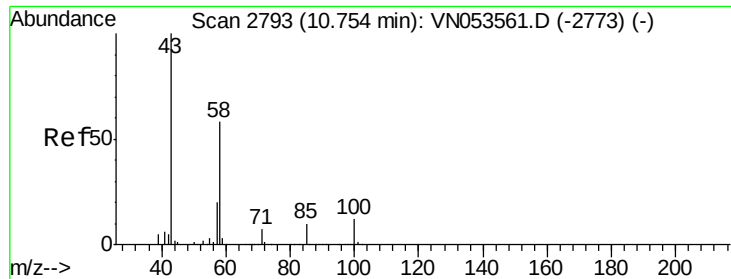
78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

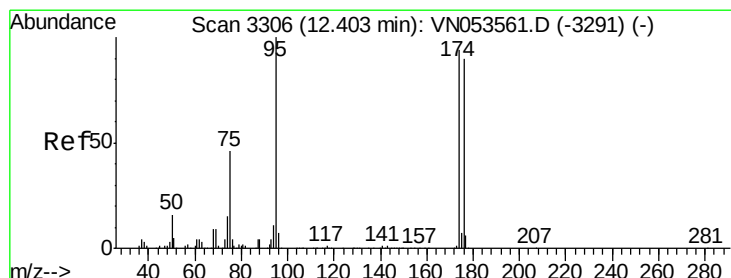
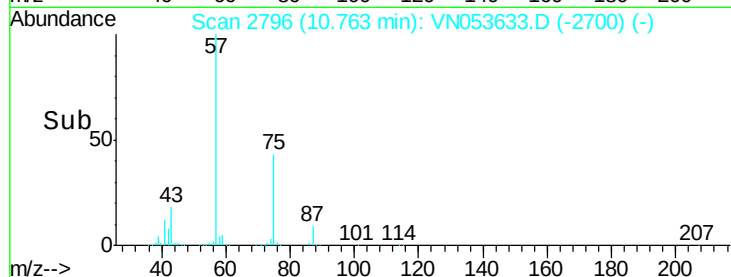
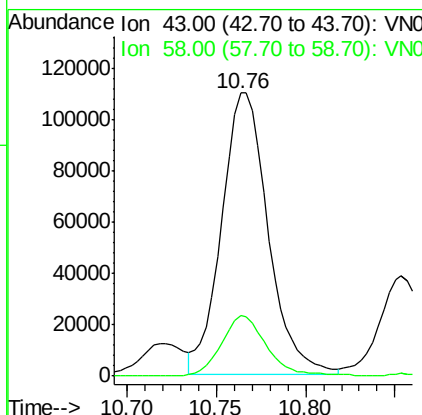
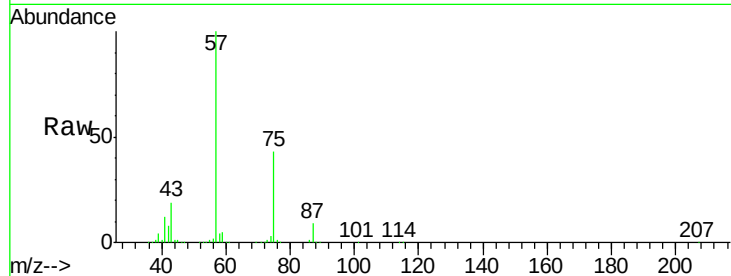




#59
2-Hexanone
Concen: 49.463 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053633.D
Acq: 6 Feb 2019 14:30

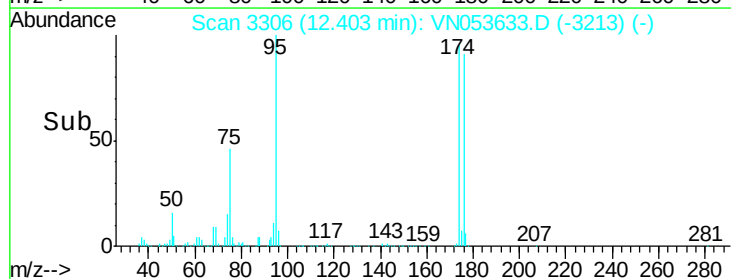
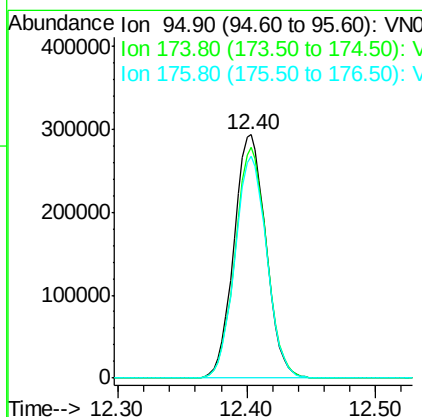
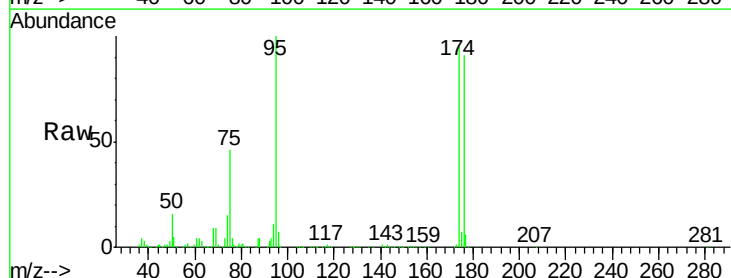
Instrument :
MSVOA_N
ClientSampleId :
PB116860ZHE#06

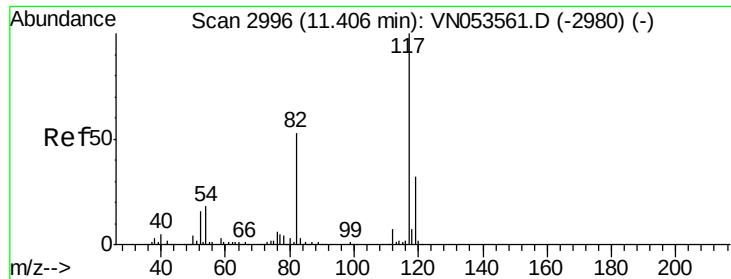
Tot Ion: 43 Resp: 199849
Ion Ratio Lower Upper
43 100
58 21.0 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053633.D
Acq: 6 Feb 2019 14:30

Tgt Ion: 95 Resp: 505710
Ion Ratio Lower Upper
95 100
174 93.6 0.0 183.2
176 90.7 0.0 177.4

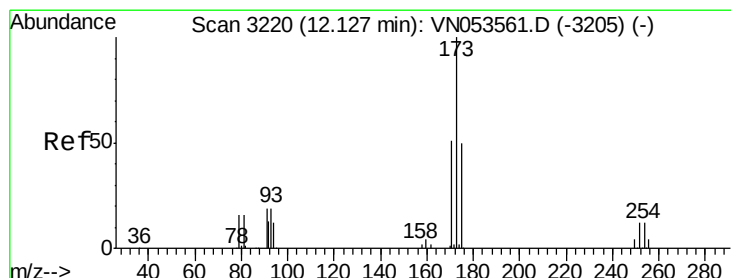
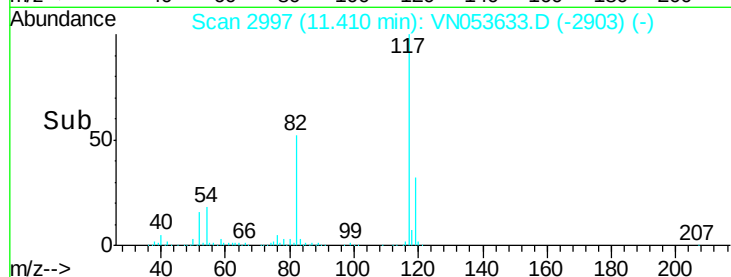
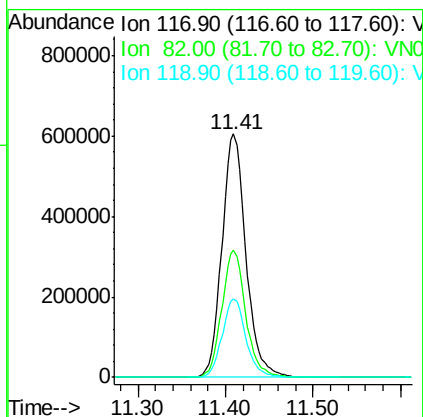
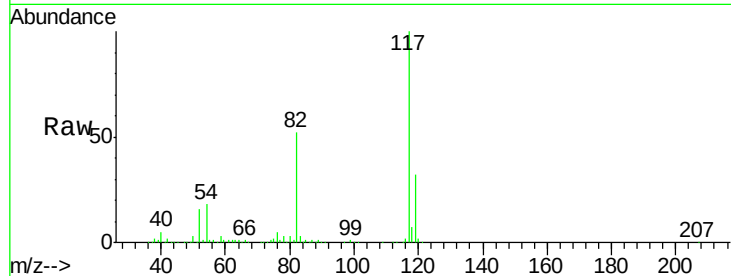




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053633.D
Acq: 6 Feb 2019 14:30

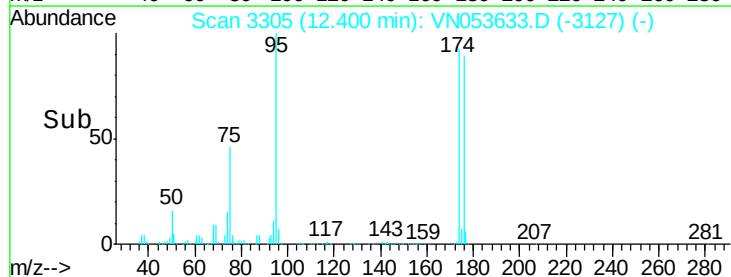
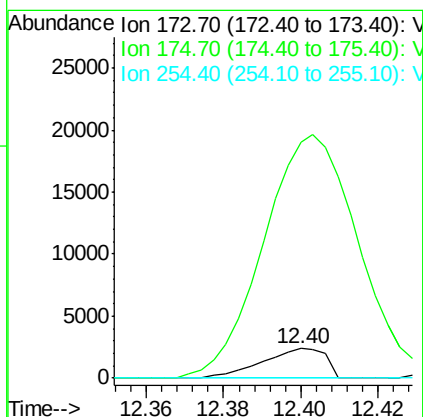
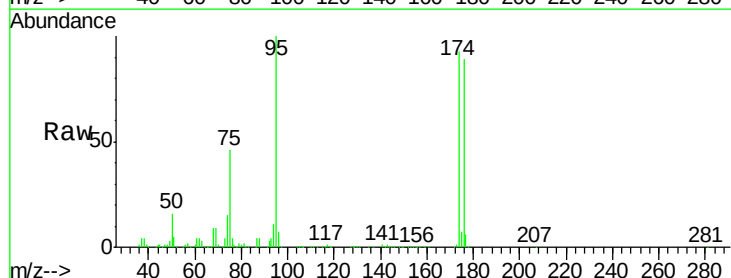
Instrument :
MSVOA_N
ClientSampleId :
PB116860ZHE#06

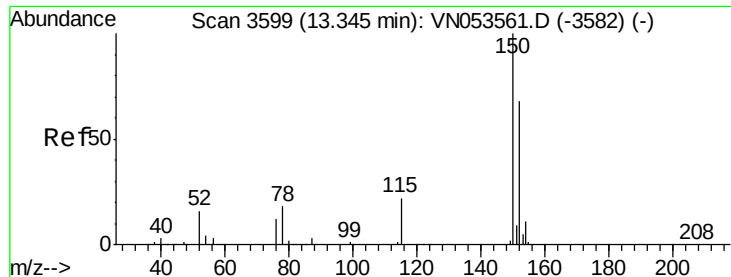
Tot Ion:117 Resp: 1150887
Ion Ratio Lower Upper
117 100
82 52.1 42.9 64.3
119 32.2 26.0 39.0



#71
Bromoform
Concen: 0.465 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053633.D
Acq: 6 Feb 2019 14:30

Tgt Ion:173 Resp: 2724
Ion Ratio Lower Upper
173 100
175 1039.4 24.6 74.0#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053633.D

Acq: 6 Feb 2019 14:30

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#06

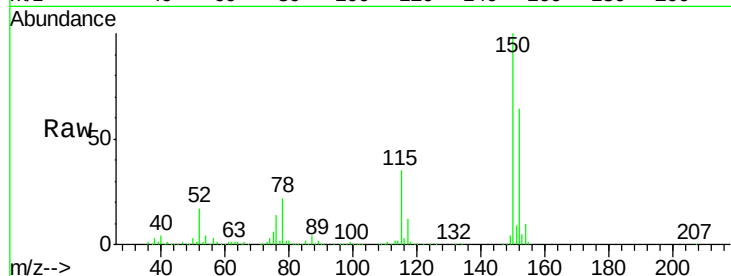
Tot Ion:152 Resp: 482418

Ion Ratio Lower Upper

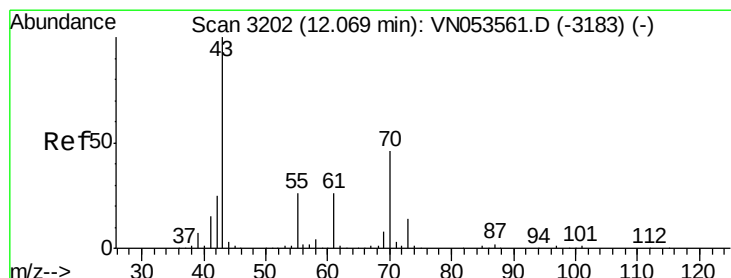
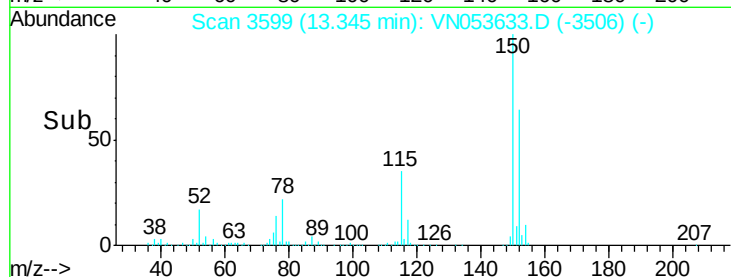
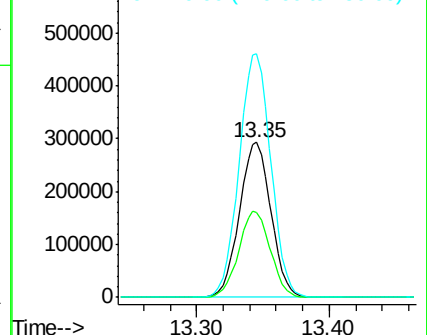
152 100

115 55.6 27.8 83.4

150 158.5 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: 2.902 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053633.D

Acq: 6 Feb 2019 14:30

Tgt Ion: 43 Resp: 23669

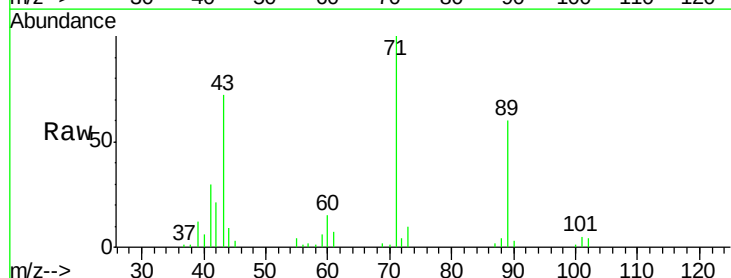
Ion Ratio Lower Upper

43 100

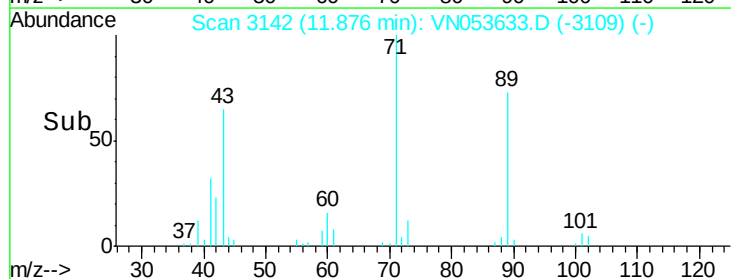
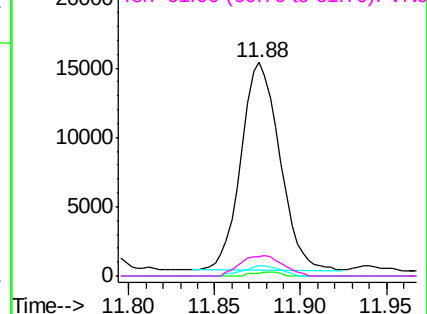
70 1.3 35.4 53.2#

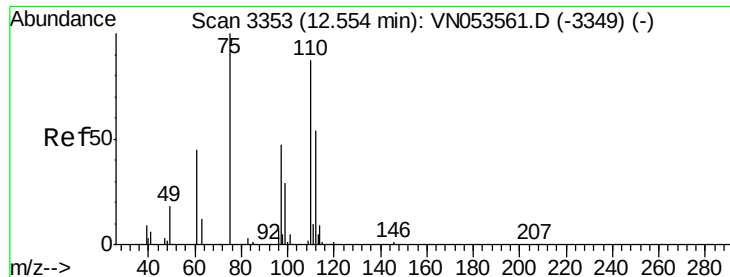
55 4.7 20.9 31.3#

61 10.5 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: 37.860 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053633.D

Acq: 6 Feb 2019 14:30

Instrument :

MSVOA_N

ClientSampleId :

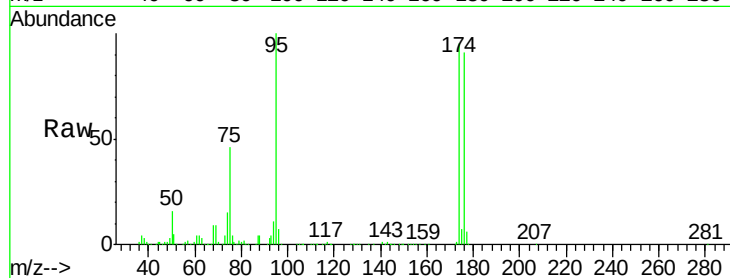
PB116860ZHE#06

Tot Ion: 75 Resp: 234592

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN053561.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN053561.D (-3349) (-)

12.40

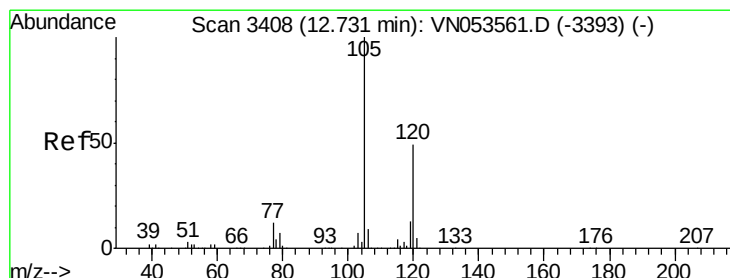
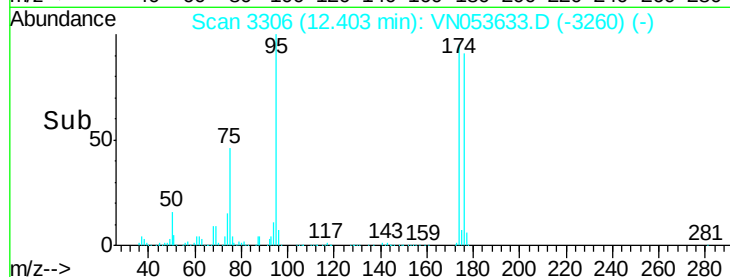
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#80

1,3,5-Trimethylbenzene

Concen: 0.661 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053633.D

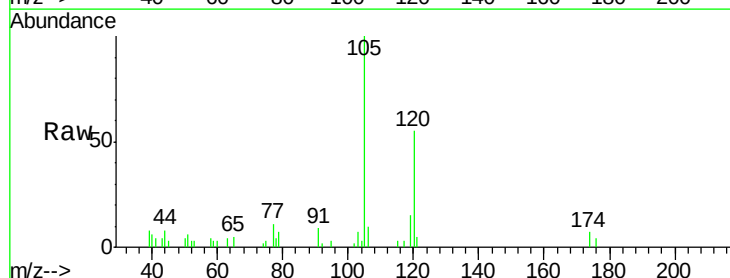
Acq: 6 Feb 2019 14:30

Tgt Ion: 105 Resp: 18598

Ion Ratio Lower Upper

105 100

120 51.8 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN053561.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN053561.D (-3393) (-)

12.73

12000

10000

8000

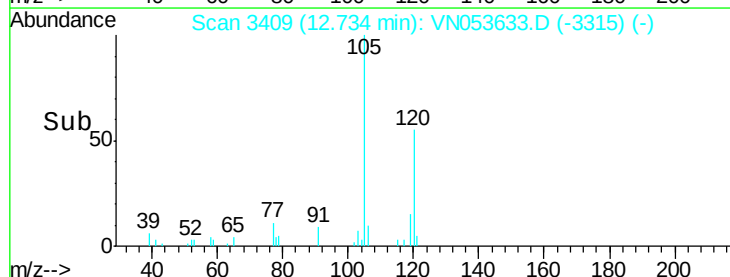
6000

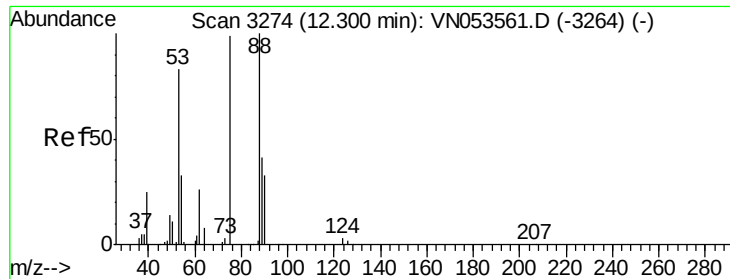
4000

2000

0

Time--> 12.70 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 106.458 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053633.D

Acq: 6 Feb 2019 14:30

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#06

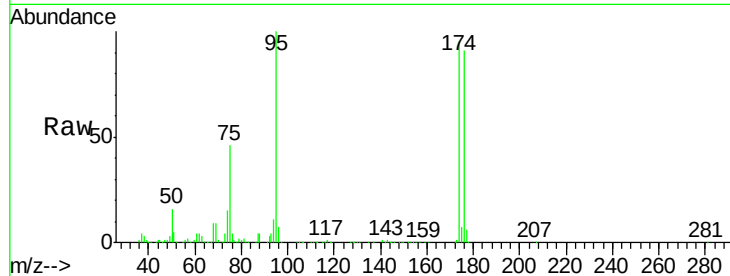
Tot Ion: 75 Resp: 234592

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): VN053561.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN053561.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN053561.D (-3264) (-)

150000

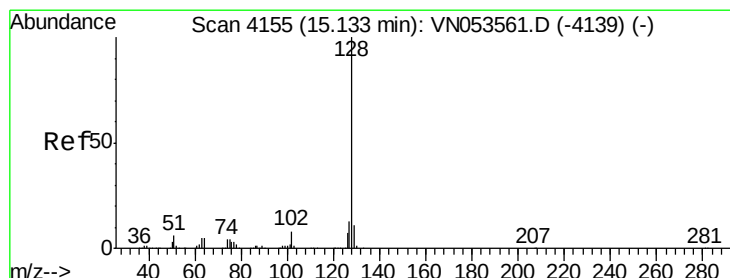
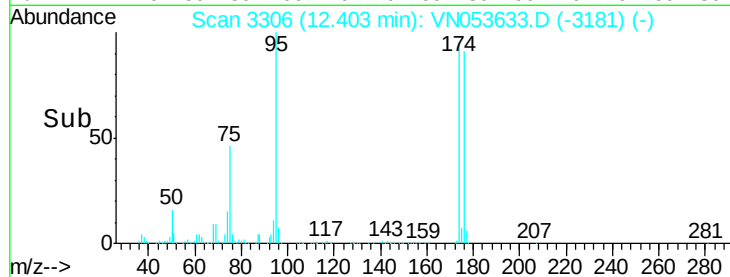
100000

50000

0

12.40

Time--> 12.30 12.40 12.50



#95

Naphthalene

Concen: 1.745 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN053633.D

Acq: 6 Feb 2019 14:30

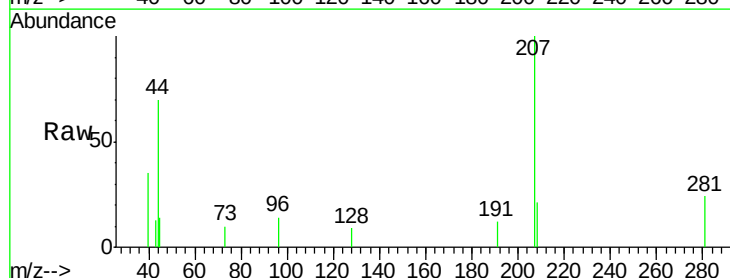
Tgt Ion: 128 Resp: 202

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN053561.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN053561.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN053561.D (-4139) (-)

250

200

150

100

50

0

15.14

Time--> 15.12 15.14

