

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022619\
 Data File : VN053960.D
 Acq On : 26 Feb 2019 17:31
 Operator : JC/SP
 Sample : PB117375ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB117375ZHE#03

Quant Time: Feb 27 02:29:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 05:37:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	595688	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1080778	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1038530	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	374462	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	382043	54.71	ug/l	0.00
Spiked Amount			Recovery	=	109.42%	
35) Dibromofluoromethane	7.59	113	349289	49.98	ug/l	0.00
Spiked Amount			Recovery	=	99.96%	
50) Toluene-d8	10.09	98	1351378	51.94	ug/l	0.00
Spiked Amount			Recovery	=	103.88%	
62) 4-Bromofluorobenzene	12.40	95	443870	51.21	ug/l	0.00
Spiked Amount			Recovery	=	102.42%	

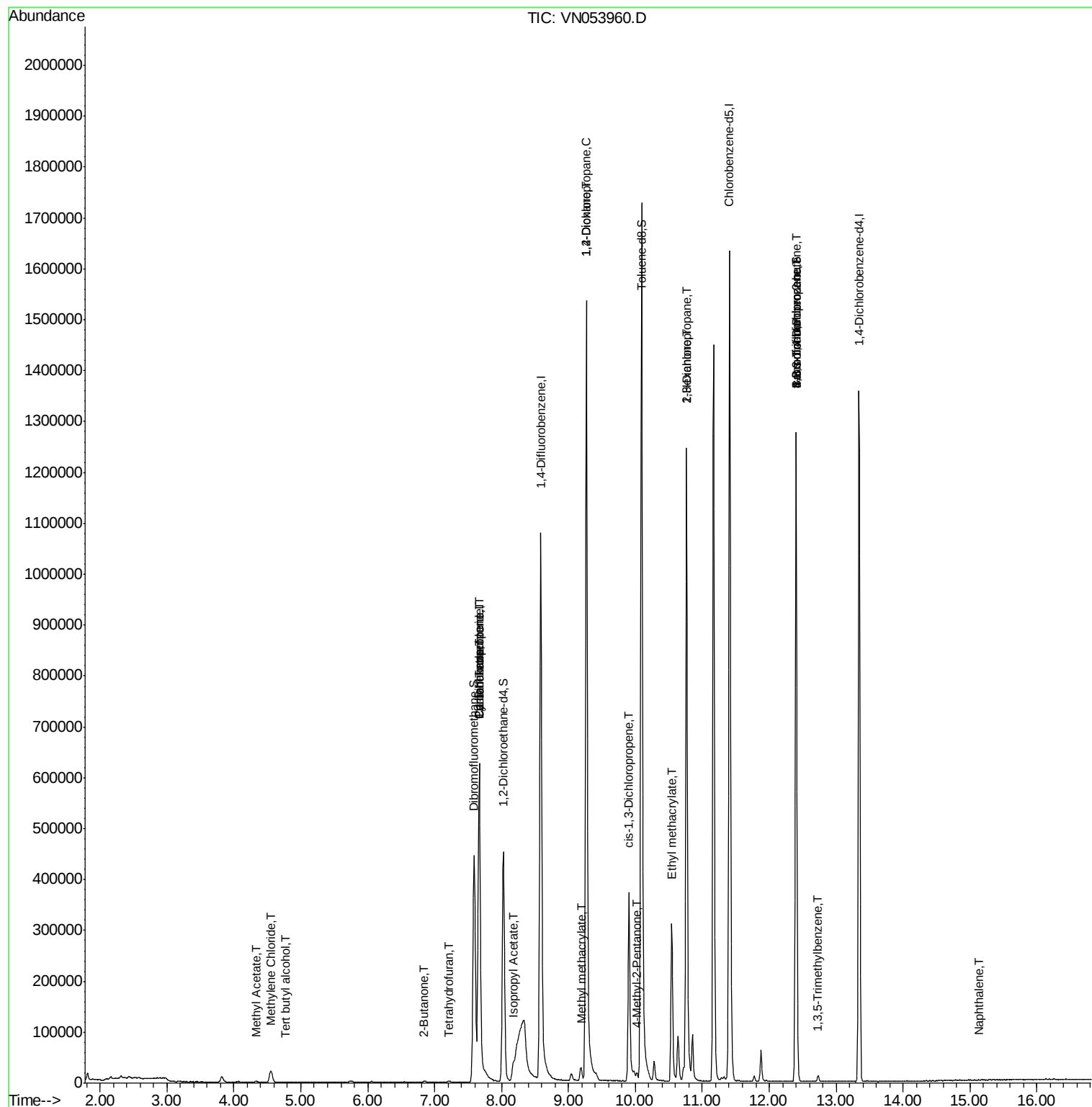
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.77	59	95	0.215	ug/l #	73
16) Acetone	3.82	43	20072	Below Cal		98
18) Methyl Acetate	4.33	43	4063	0.832	ug/l #	65
20) Methylene Chloride	4.55	84	17793	2.575	ug/l	97
25) 2-Butanone	6.84	43	5109	1.863	ug/l	100
29) Tetrahydrofuran	7.22	42	2342	1.283	ug/l #	55
31) Cyclohexane	7.67	56	10167	0.505	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	40743	4.054	ug/l #	47
38) Carbon Tetrachloride	7.67	117	51018	4.881	ug/l #	18
43) Isopropyl Acetate	8.17	43	27808	2.295	ug/l	97
45) 1,2-Dichloropropane	9.27	63	2002	0.240	ug/l #	44
48) Methyl methacrylate	9.18	41	10412	1.868	ug/l #	12
49) 1,4-Dioxane	9.28	88	30	0.397	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	11587	1.861	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	72675	6.216	ug/l #	70
56) Ethyl methacrylate	10.54	69	1445	2.111	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	13198	1.150	ug/l #	43
59) 2-Hexanone	10.76	43	195008	48.154	ug/l #	48
71) Bromoform	12.40	173	3800	0.691	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	216542	36.048	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5214	0.218	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	216542	113.934	ug/l #	15
95) Naphthalene	15.14	128	227	3.226	ug/l #	70

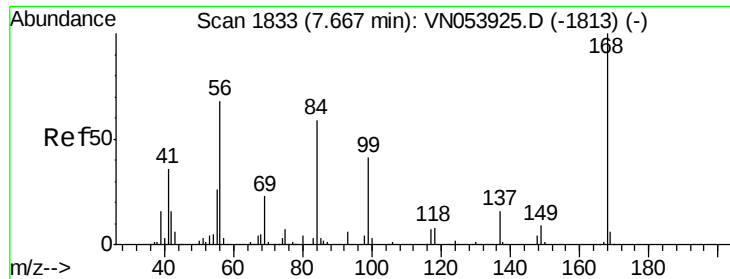
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN022619\
Data File : VN053960.D
Acq On : 26 Feb 2019 17:31
Operator : JC/SP
Sample : PB117375ZHE#03
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB117375ZHE#03

Quant Time: Feb 27 02:29:08 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 26 05:37:40 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: VN053960.D

Acq: 26 Feb 2019 17:31

Instrument :

MSVOA_N

ClientSampleId :

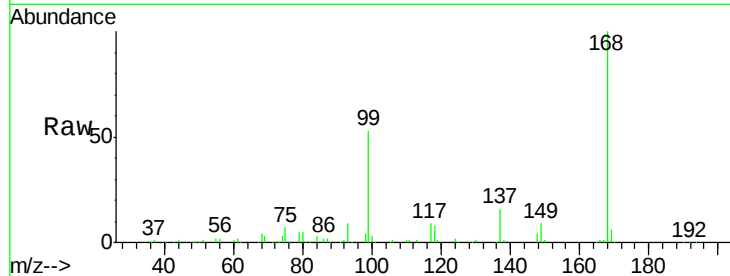
PB117375ZHE#03

Tot Ion:168 Resp: 595688

Ion Ratio Lower Upper

168 100

99 53.0 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): VN053960.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053960.D (-1740) (-)

7.67

250000

200000

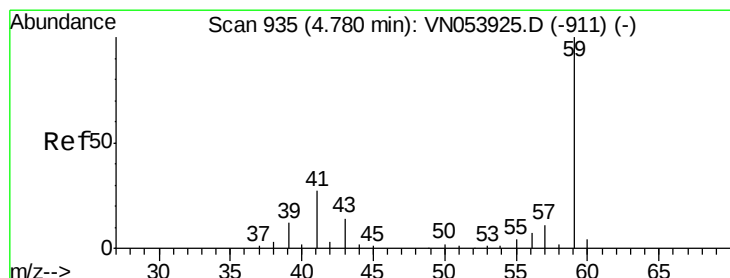
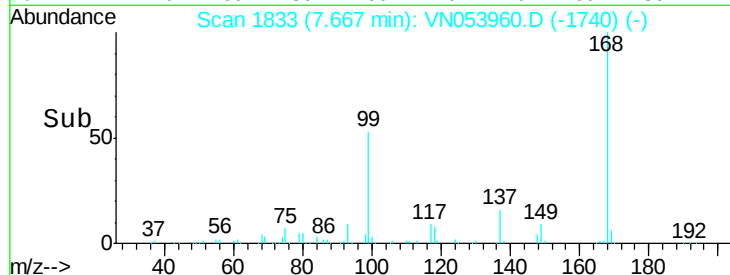
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#11

Tert butyl alcohol

Concen: 0.215 ug/l

RT: 4.77 min Scan# 932

Delta R.T. -0.01 min

Lab File: VN053960.D

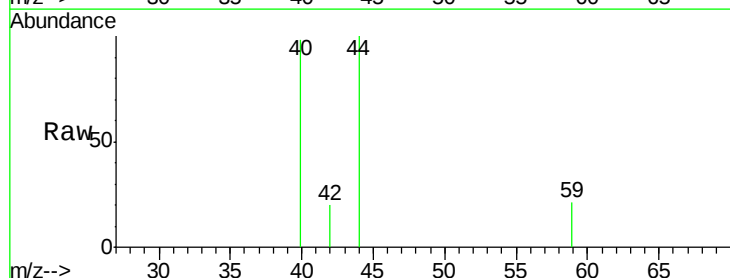
Acq: 26 Feb 2019 17:31

Tgt Ion: 59 Resp: 95

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VN053960.D (-842) (-)

Ion 57.00 (56.70 to 57.70): VN053960.D (-842) (-)

4.77

250

200

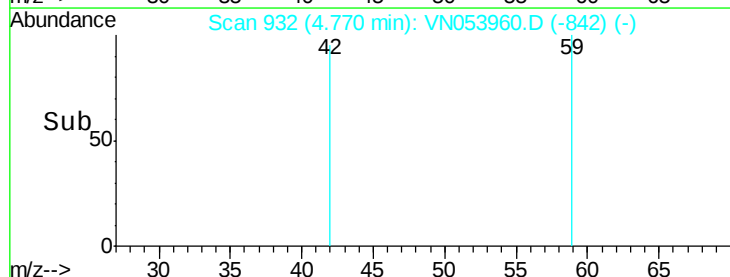
150

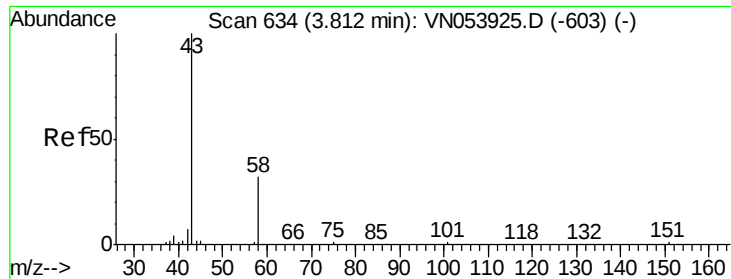
100

50

0

Time--> 4.76 4.77 4.78





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN053960.D

Acq: 26 Feb 2019 17:31

Instrument :

MSVOA_N

ClientSampleId :

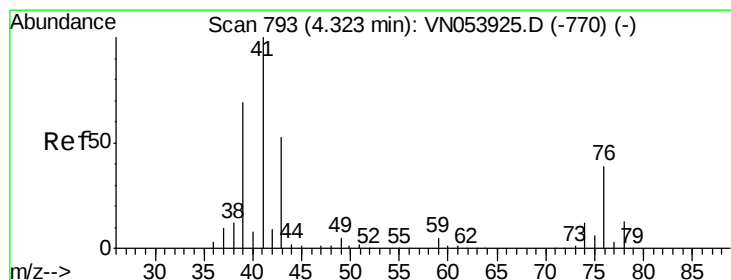
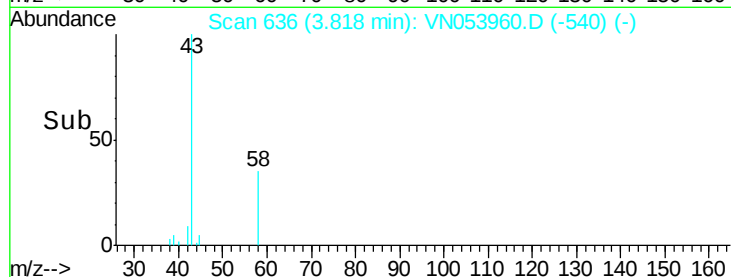
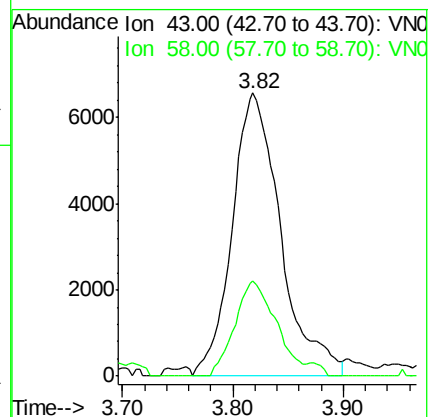
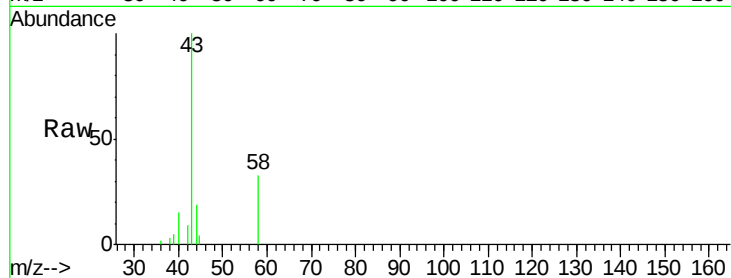
PB117375ZHE#03

Tot Ion: 43 Resp: 20072

Ion Ratio Lower Upper

43 100

58 33.4 27.6 41.4



#18

Methyl Acetate

Concen: 0.832 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN053960.D

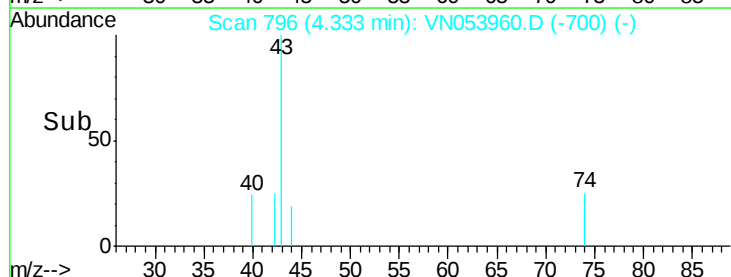
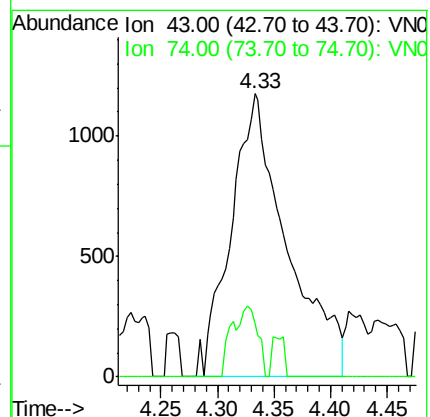
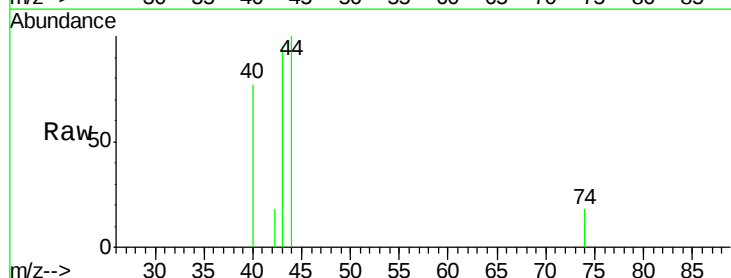
Acq: 26 Feb 2019 17:31

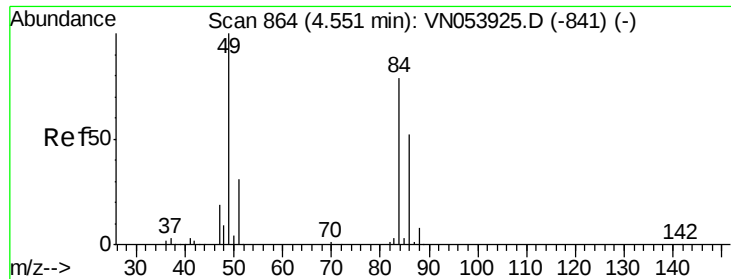
Tgt Ion: 43 Resp: 4063

Ion Ratio Lower Upper

43 100

74 7.6 20.5 30.7#





#20

Methvlene Chloride

Concen: 2.575 ug/l

RT: 4.55 min Scan# 864

Delta R.T. 0.00 min

Lab File: VN053960.D

Acq: 26 Feb 2019 17:31

Instrument :

MSVOA_N

ClientSampleId :

PB117375ZHE#03

Tot Ion: 84 Resp: 17793

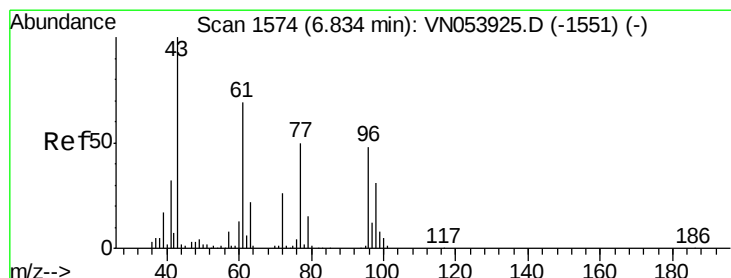
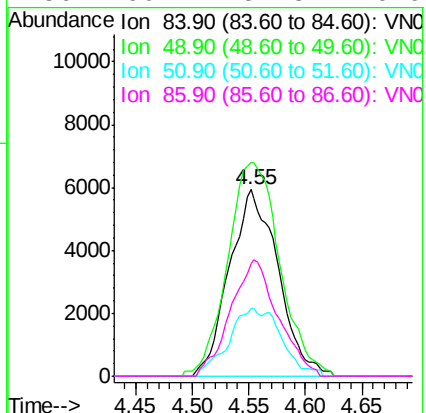
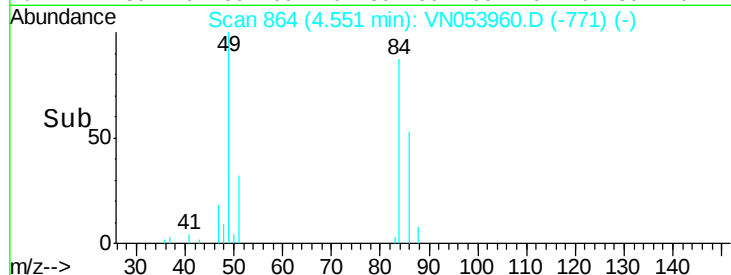
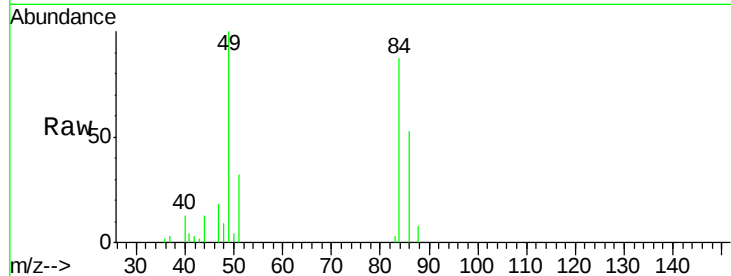
Ion Ratio Lower Upper

84 100

49 114.3 89.7 134.5

51 36.3 27.8 41.8

86 60.1 51.3 76.9



#25

2-Butanone

Concen: 1.863 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.01 min

Lab File: VN053960.D

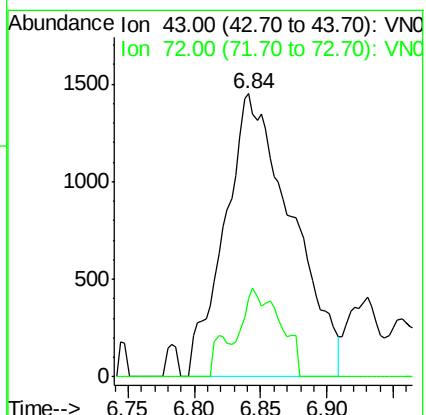
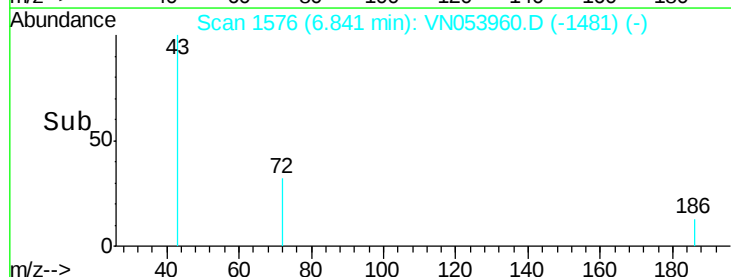
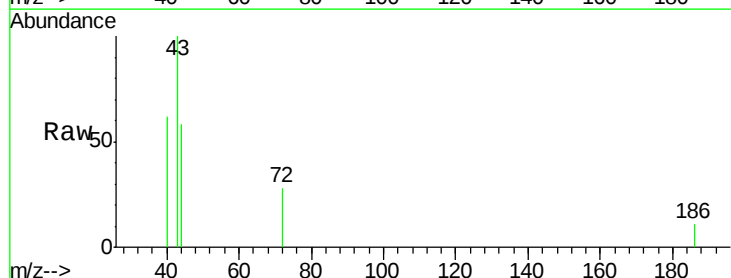
Acq: 26 Feb 2019 17:31

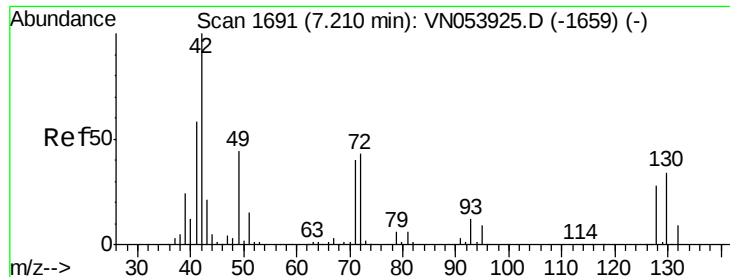
Tgt Ion: 43 Resp: 5109

Ion Ratio Lower Upper

43 100

72 27.7 22.1 33.1





#29

Tetrahydrofuran

Concen: 1.283 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.01 min

Lab File: VN053960.D

Acq: 26 Feb 2019 17:31

Instrument :

MSVOA_N

ClientSampleId :

PB117375ZHE#03

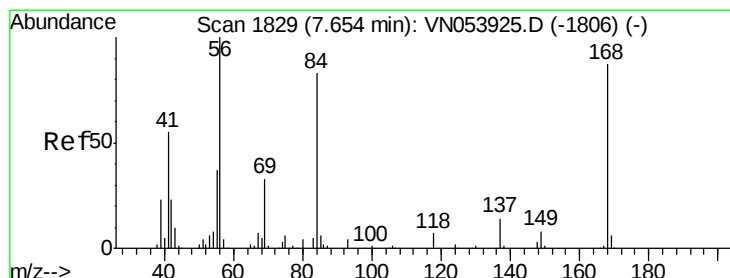
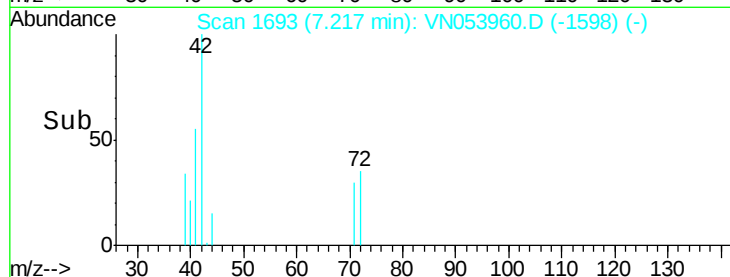
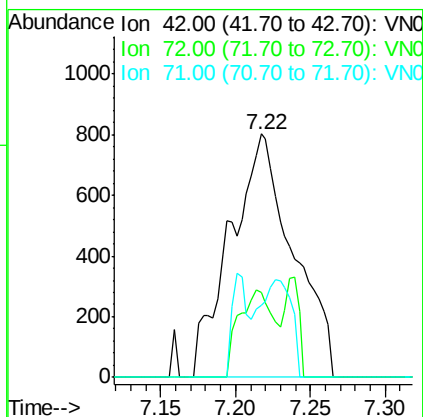
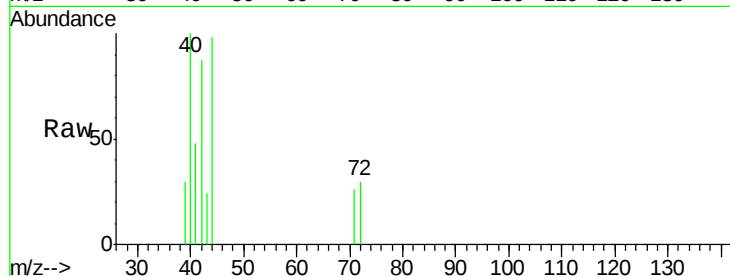
Tot Ion: 42 Resp: 2342

Ion Ratio Lower Upper

42 100

72 19.9 36.9 55.3#

71 10.8 34.6 52.0#



#31

Cyclohexane

Concen: 0.505 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053960.D

Acq: 26 Feb 2019 17:31

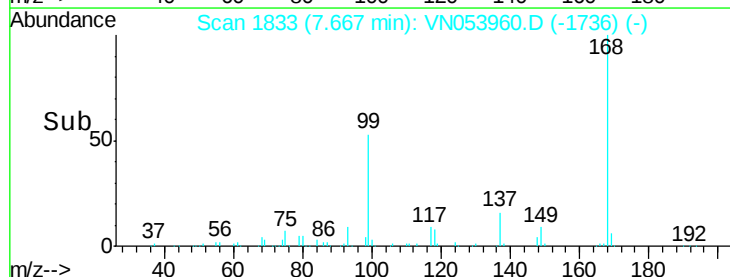
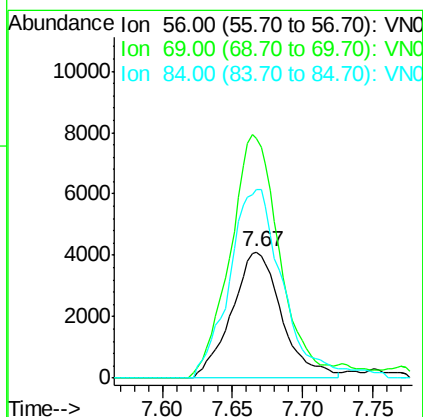
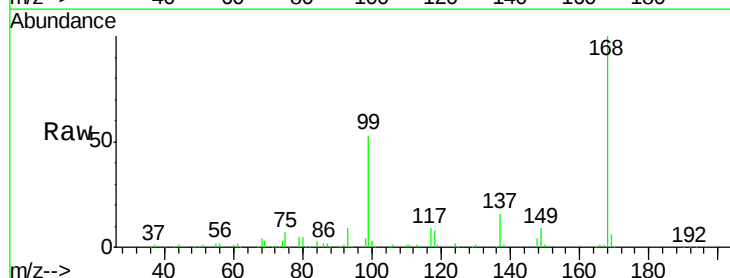
Tgt Ion: 56 Resp: 10167

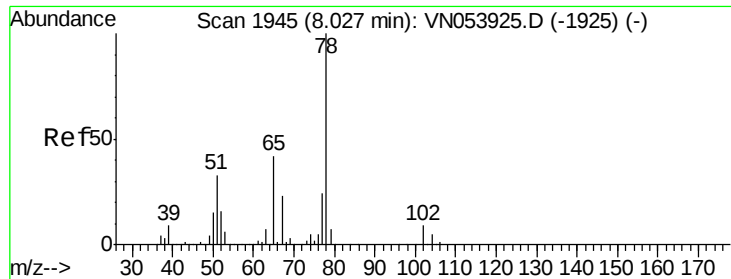
Ion Ratio Lower Upper

56 100

69 190.0 26.0 39.0#

84 149.4 69.1 103.7#





#33

1,2-Dichloroethane-d4

Concen: 54.712 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053960.D

Acq: 26 Feb 2019 17:31

Instrument :

MSVOA_N

ClientSampleId :

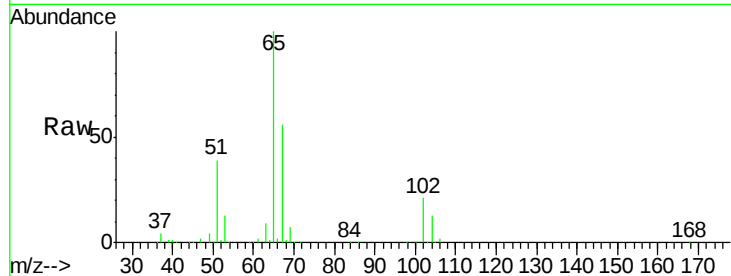
PB117375ZHE#03

Tot Ion: 65 Resp: 382043

Ion Ratio Lower Upper

65 100

67 54.8 0.0 111.8



Abundance Ion 64.90 (64.60 to 65.60): VN053960.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN053960.D (-1852) (-)

8.03

150000

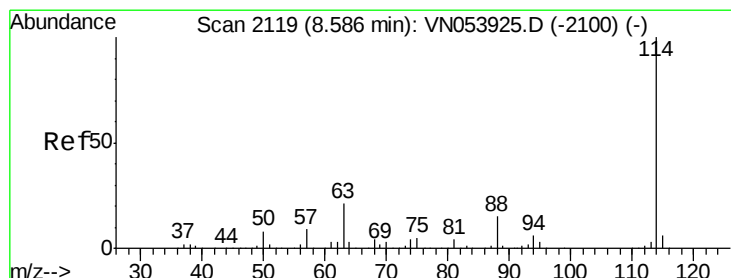
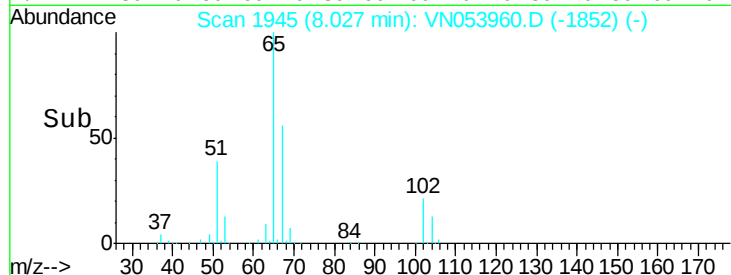
100000

50000

0

Time-->

7.90 8.00 8.10 8.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053960.D

Acq: 26 Feb 2019 17:31

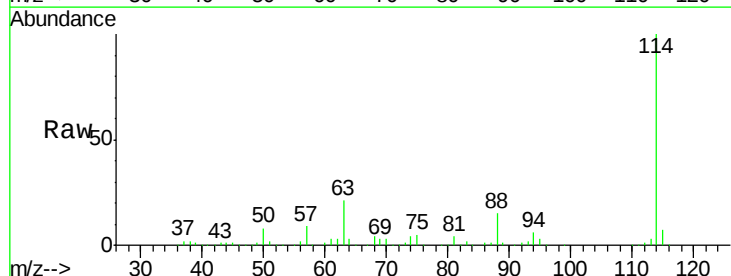
Tgt Ion: 114 Resp: 1080778

Ion Ratio Lower Upper

114 100

63 21.0 0.0 37.4

88 15.4 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): VN053960.D (-2026) (-)

Ion 63.00 (62.70 to 63.70): VN053960.D (-2026) (-)

Ion 87.90 (87.60 to 88.60): VN053960.D (-2026) (-)

8.59

600000

500000

400000

300000

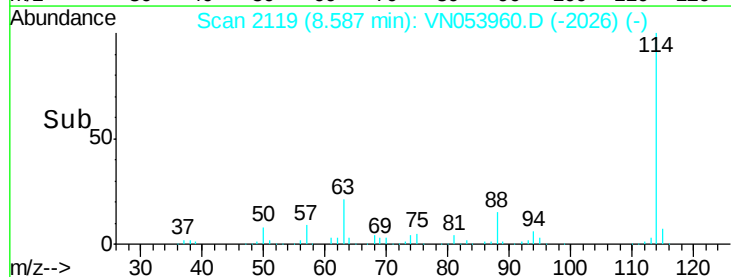
200000

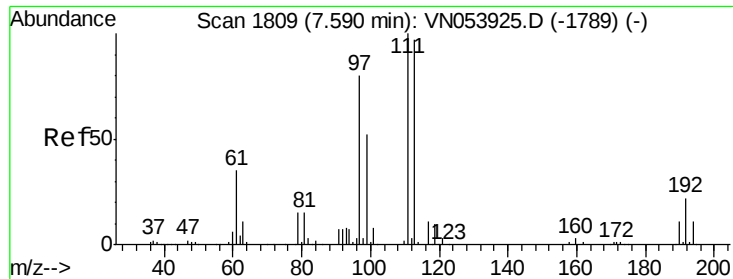
100000

0

Time-->

8.40 8.50 8.60 8.70 8.80

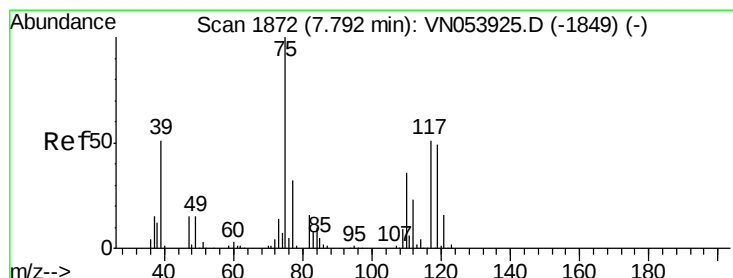
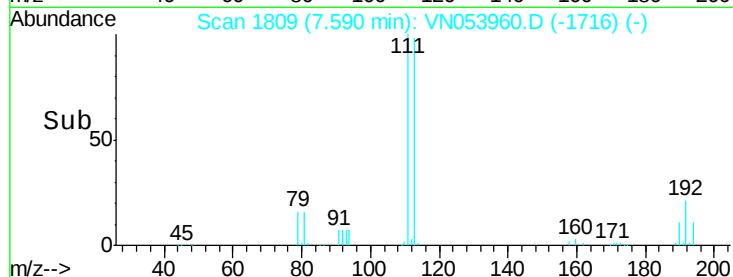
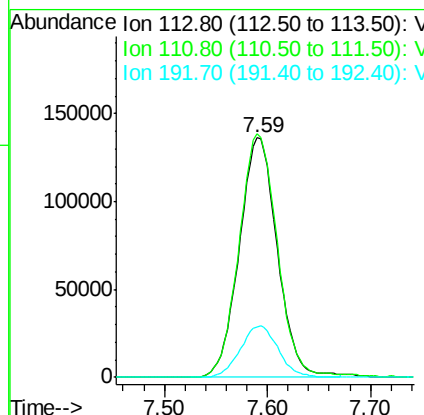
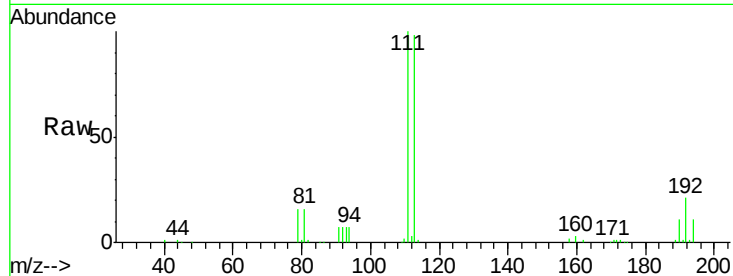




#35
 Dibromofluoromethane
 Concen: 49.977 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN053960.D
 Acq: 26 Feb 2019 17:31

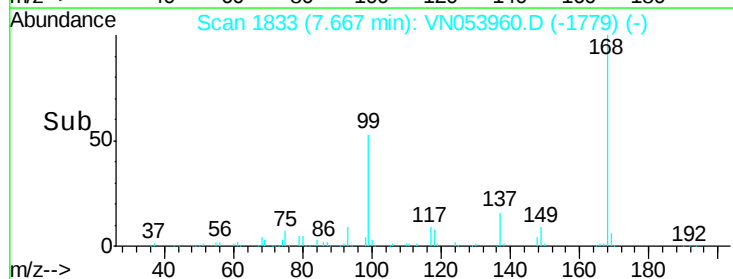
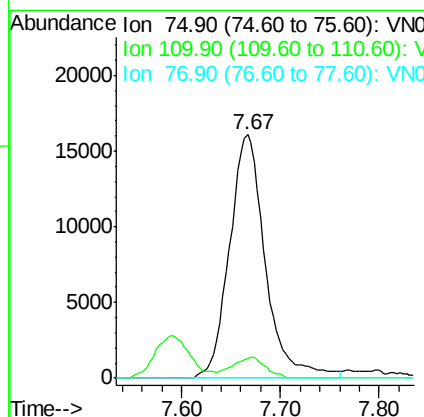
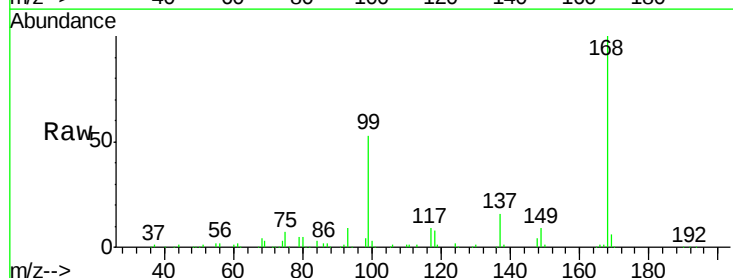
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117375ZHE#03

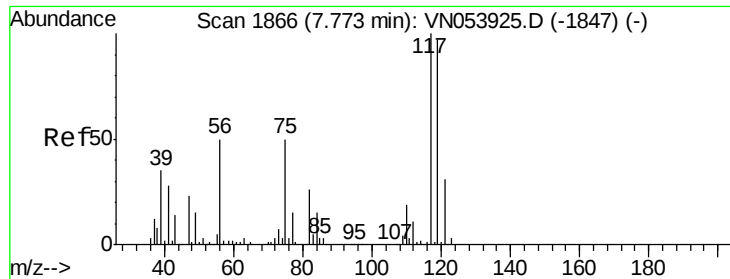
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.1	121.7
192	21.5	18.8	28.2



#36
 1,1-Dichloropropene
 Concen: 4.054 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053960.D
 Acq: 26 Feb 2019 17:31

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	19.0	57.0#
77	0.0	25.4	38.0#





#38

Carbon Tetrachloride

Concen: 4.881 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053960.D

Acq: 26 Feb 2019 17:31

Instrument :

MSVOA_N

ClientSampleId :

PB117375ZHE#03

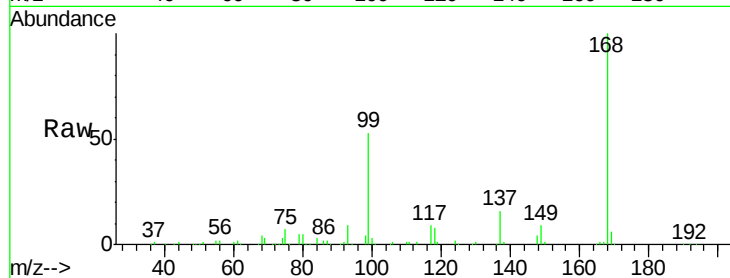
Tot Ion:117 Resp: 51018

Ion Ratio Lower Upper

117 100

119 6.8 76.2 114.2#

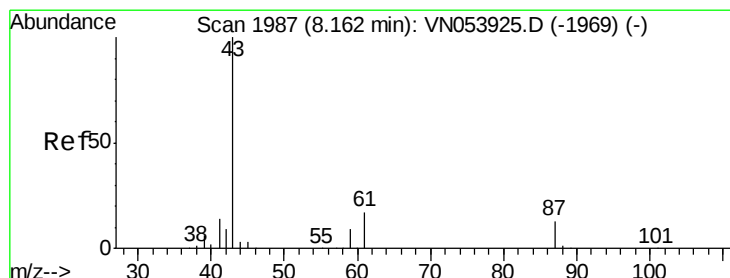
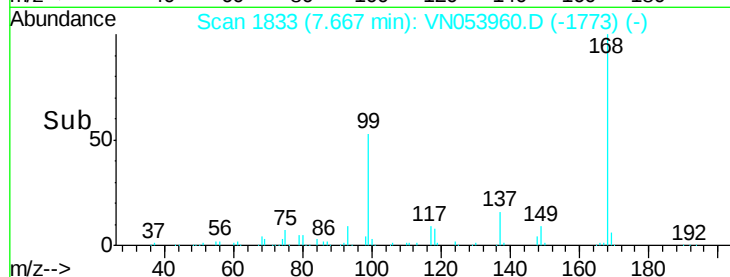
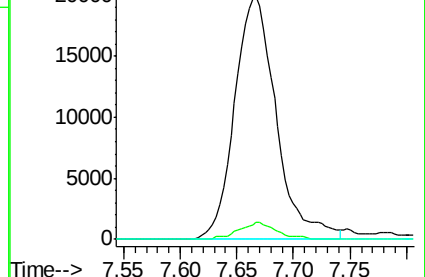
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.295 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN053960.D

Acq: 26 Feb 2019 17:31

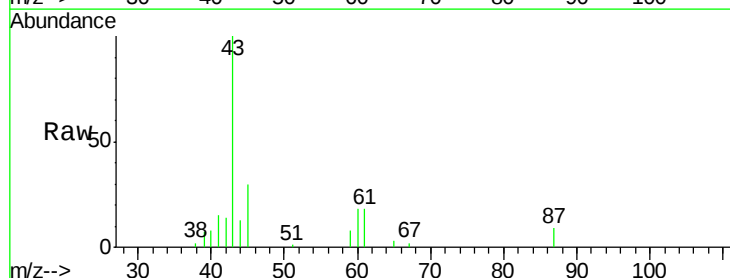
Tgt Ion: 43 Resp: 27808

Ion Ratio Lower Upper

43 100

61 20.7 17.4 26.0

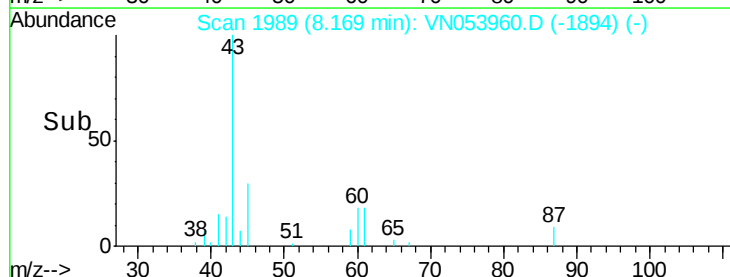
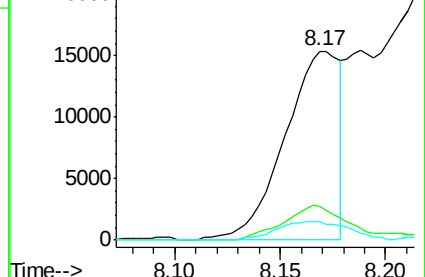
87 12.8 11.5 17.3

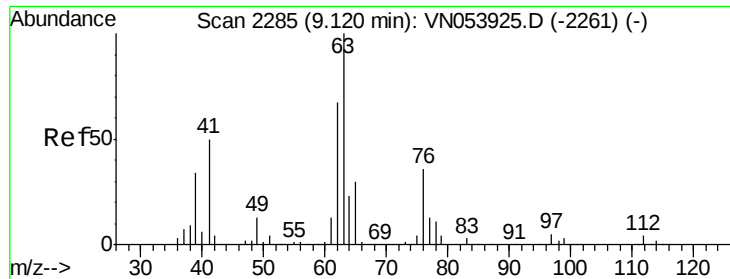


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

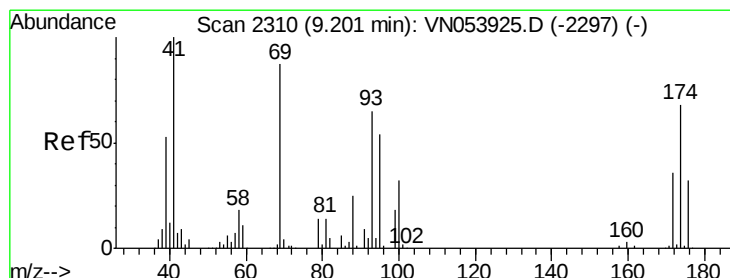
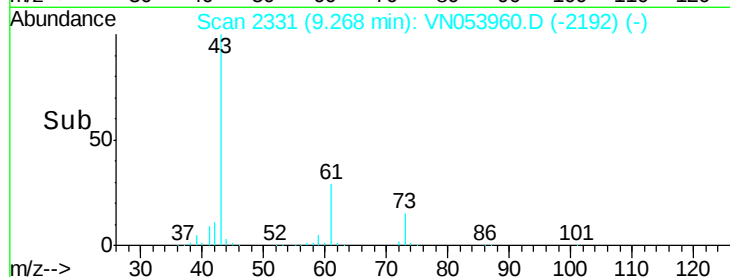
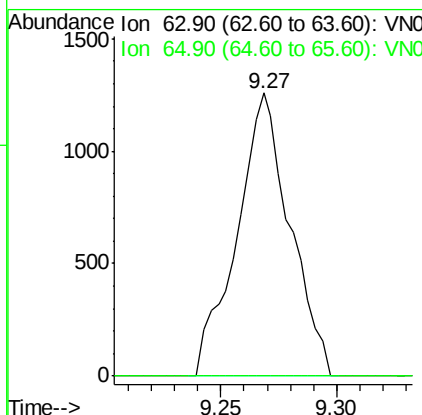
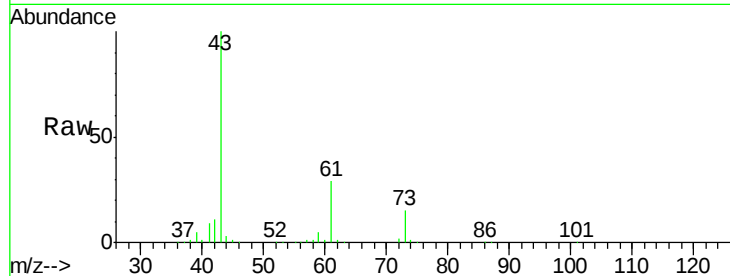




#45
 1,2-Dichloropropane
 Concen: 0.240 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN053960.D
 Acq: 26 Feb 2019 17:31

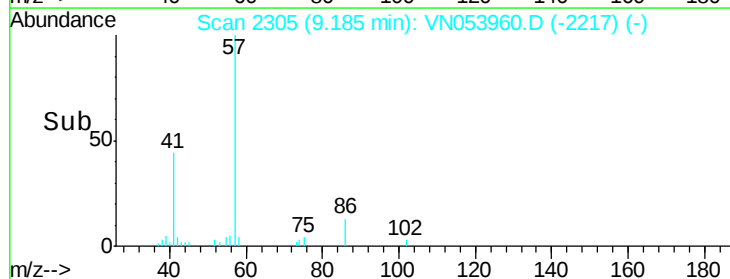
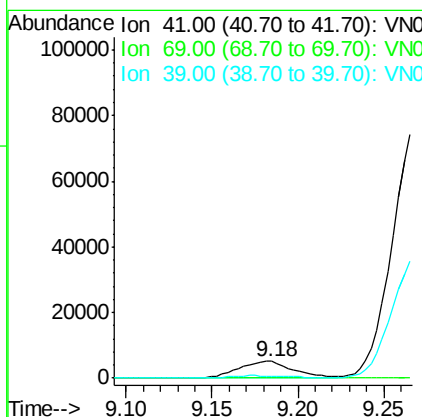
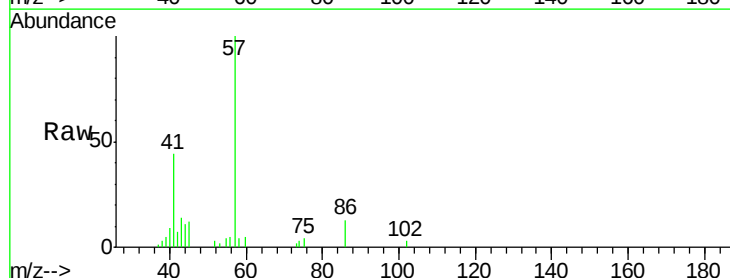
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117375ZHE#03

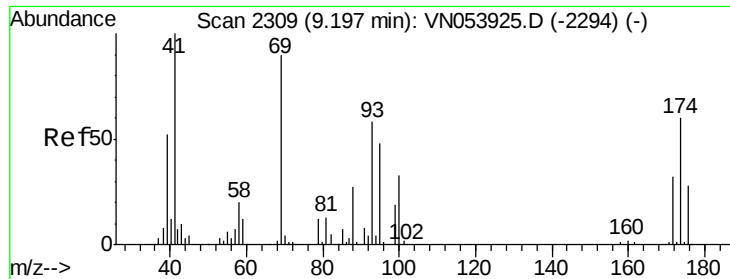
Tot Ion: 63 Resp: 2002
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.3 36.5#



#48
 Methyl methacrylate
 Concen: 1.868 ug/l
 RT: 9.18 min Scan# 2305
 Delta R.T. -0.02 min
 Lab File: VN053960.D
 Acq: 26 Feb 2019 17:31

Tgt Ion: 41 Resp: 10412
 Ion Ratio Lower Upper
 41 100
 69 0.0 74.8 112.2#
 39 0.0 39.0 58.6#





#49

1,4-Dioxane

Concen: 0.397 ug/l

RT: 9.28 min Scan# 2334

Delta R.T. 0.08 min

Lab File: VN053960.D

Acq: 26 Feb 2019 17:31

Instrument :

MSVOA_N

ClientSampleId :

PB117375ZHE#03

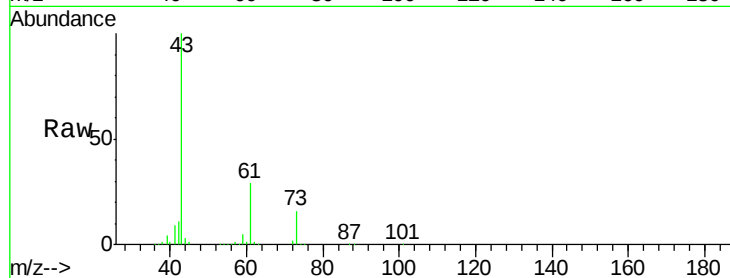
Tot Ion: 88 Resp: 30

Ion Ratio Lower Upper

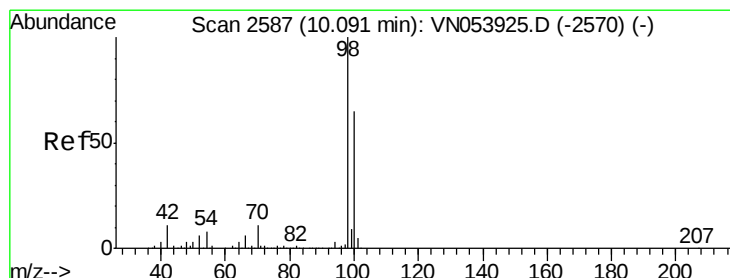
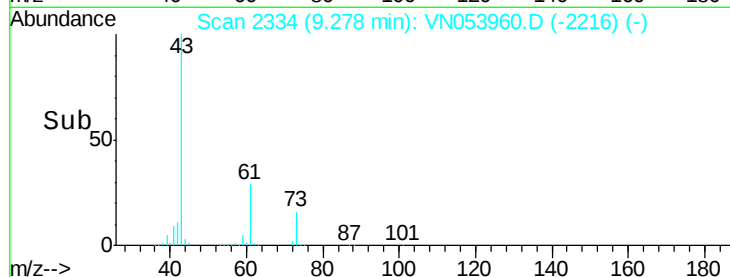
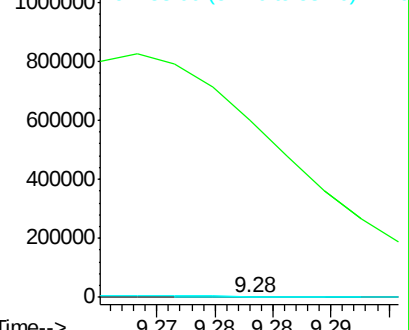
88 100

43 5558060.0 21.2 31.8#

58 30770.0 54.2 81.2#



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



#50

Toluene-d8

Concen: 51.943 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053960.D

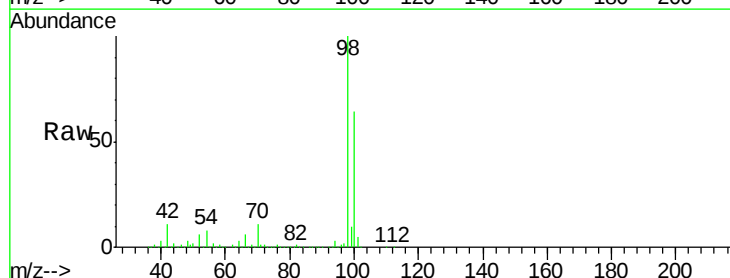
Acq: 26 Feb 2019 17:31

Tgt Ion: 98 Resp: 1351378

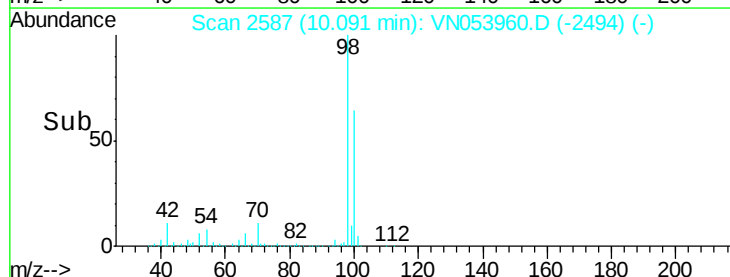
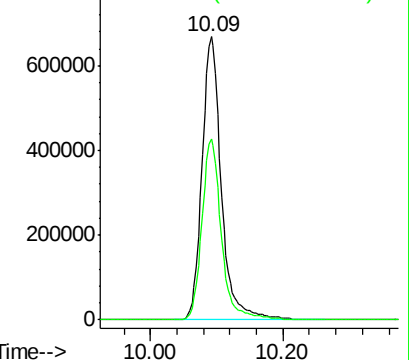
Ion Ratio Lower Upper

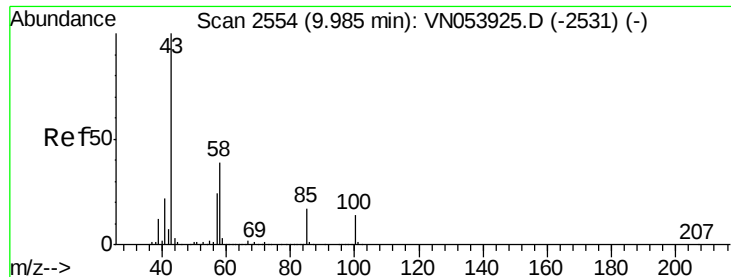
98 100

100 64.4 51.9 77.9



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

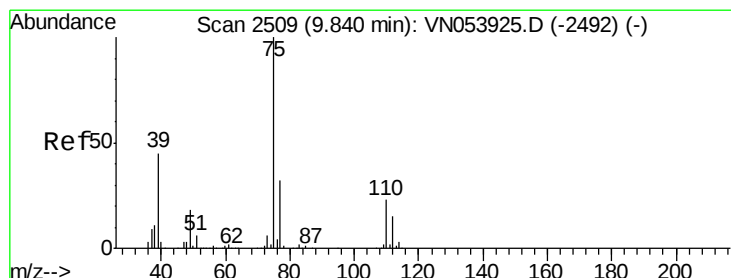
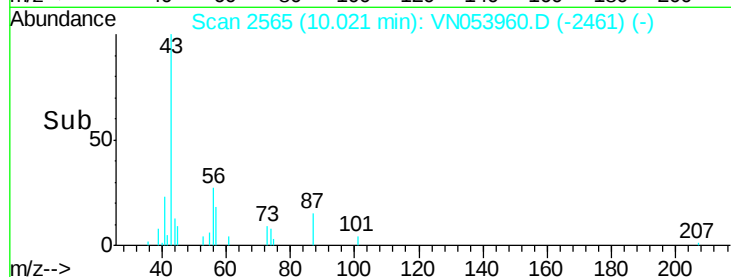
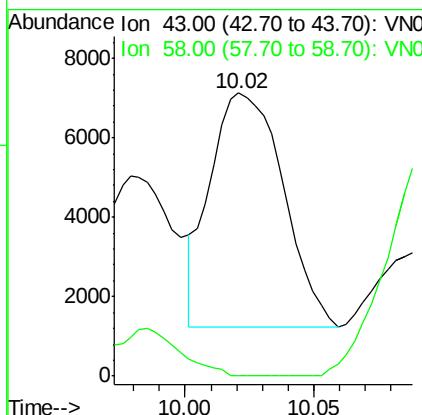
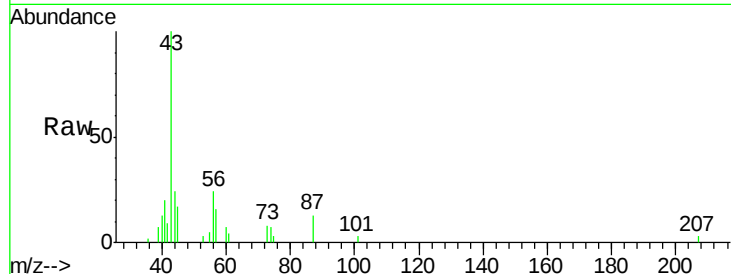




#51
 4-Methyl-2-Pentanone
 Concen: 1.861 ug/l
 RT: 10.02 min Scan# 2565
 Delta R.T. 0.04 min
 Lab File: VN053960.D
 Acq: 26 Feb 2019 17:31

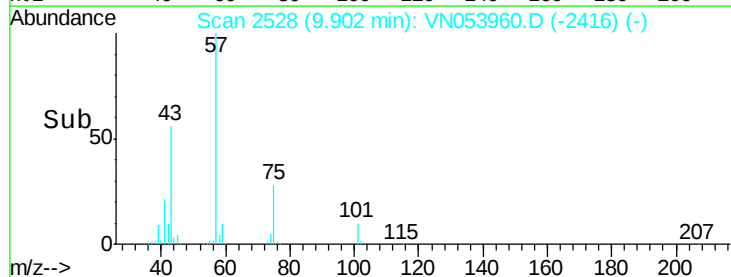
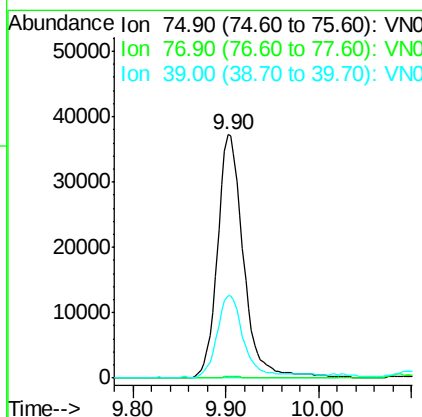
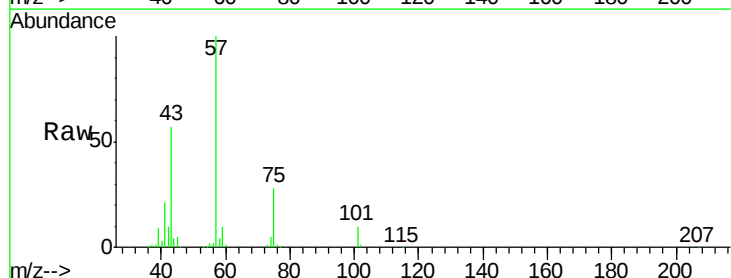
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117375ZHE#03

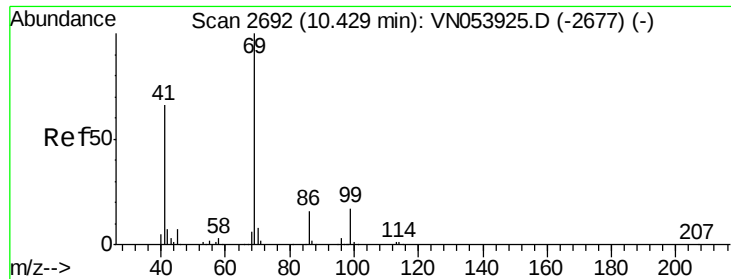
Tot Ion: 43 Resp: 11587
 Ion Ratio Lower Upper
 43 100
 58 0.0 32.7 49.1#



#54
 cis-1,3-Dichloropropene
 Concen: 6.216 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.06 min
 Lab File: VN053960.D
 Acq: 26 Feb 2019 17:31

Tgt Ion: 75 Resp: 72675
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.8 38.6#
 39 33.9 31.4 47.0

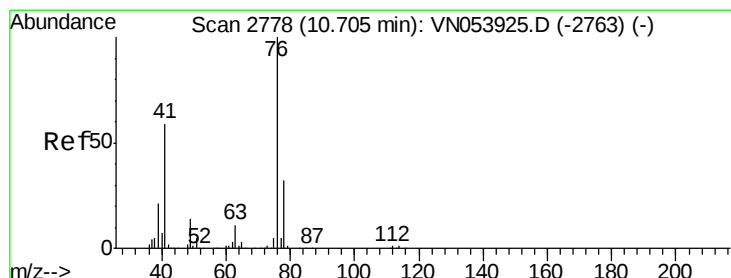
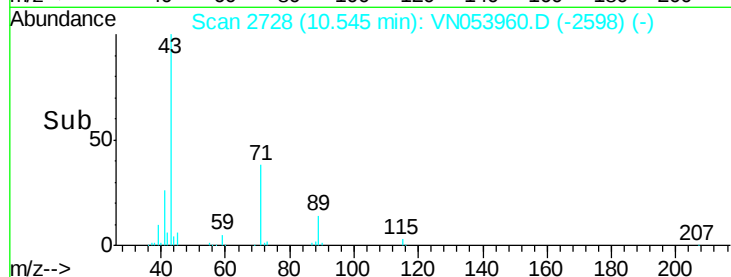
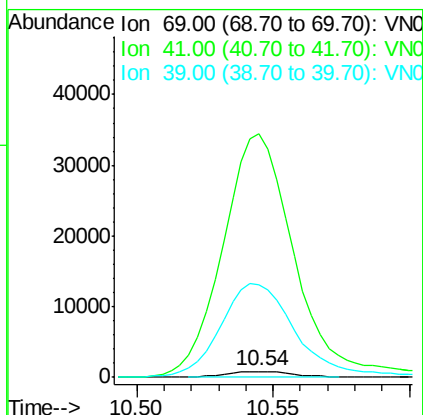
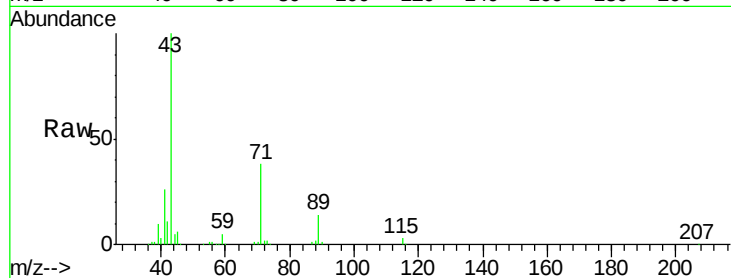




#56
Ethyl methacrylate
Concen: 2.111 ug/l
RT: 10.54 min Scan# 2728
Delta R.T. 0.12 min
Lab File: VN053960.D
Acq: 26 Feb 2019 17:31

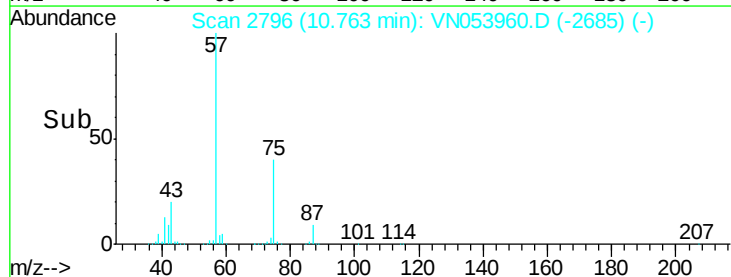
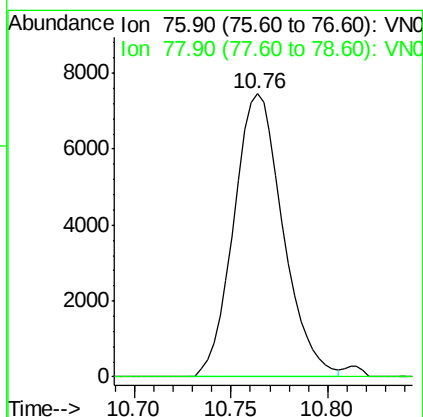
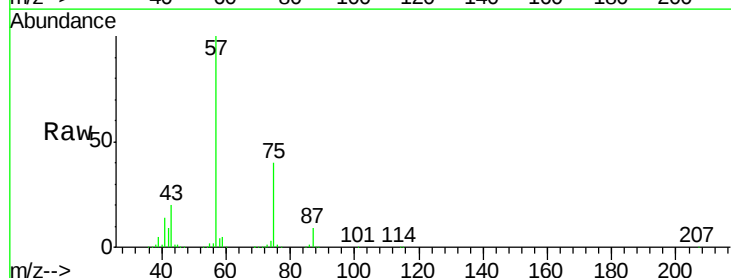
Instrument :
MSVOA_N
ClientSampleId :
PB117375ZHE#03

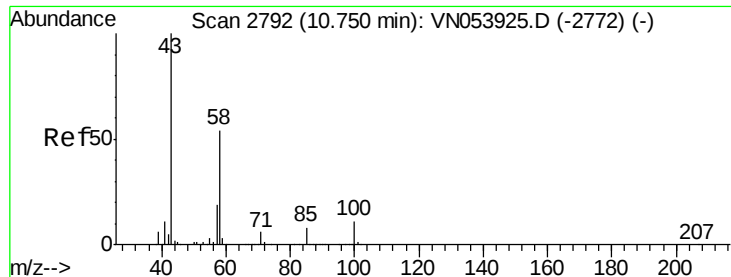
Tot Ion: 69 Resp: 1445
Ion Ratio Lower Upper
69 100
41 4371.3 47.5 71.3#
39 1760.9 23.4 35.0#



#57
1,3-Dichloropropane
Concen: 1.150 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.06 min
Lab File: VN053960.D
Acq: 26 Feb 2019 17:31

Tgt Ion: 76 Resp: 13198
Ion Ratio Lower Upper
76 100
78 0.0 25.2 37.8#

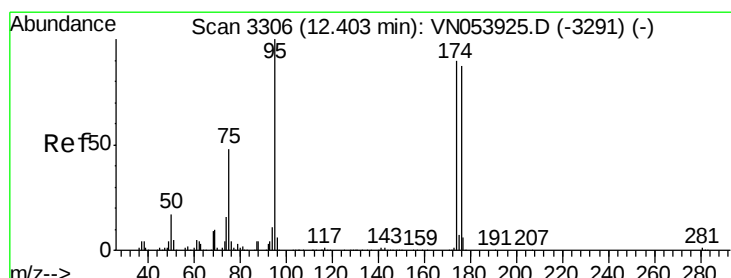
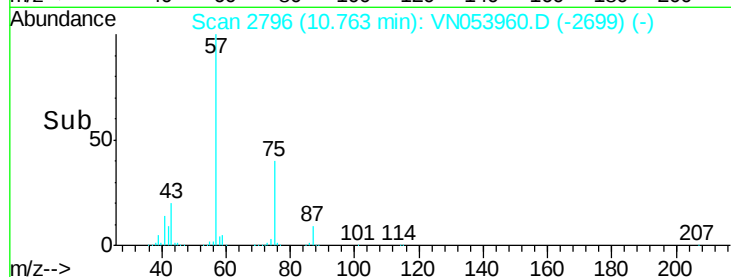
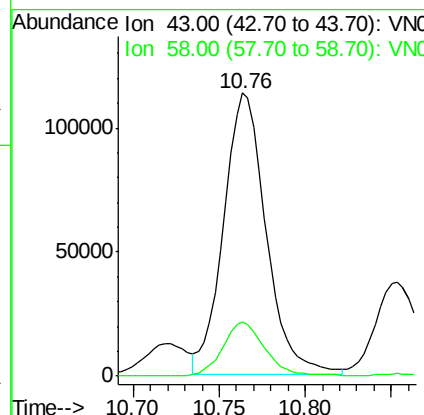
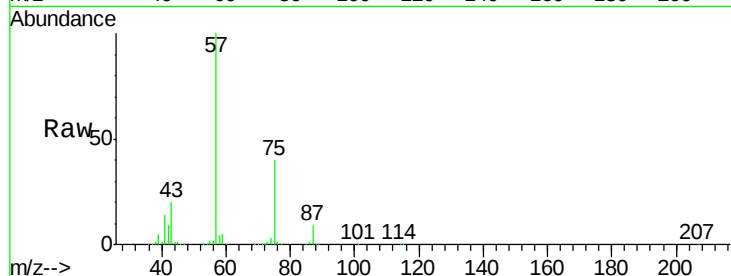




#59
2-Hexanone
Concen: 48.154 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053960.D
Acq: 26 Feb 2019 17:31

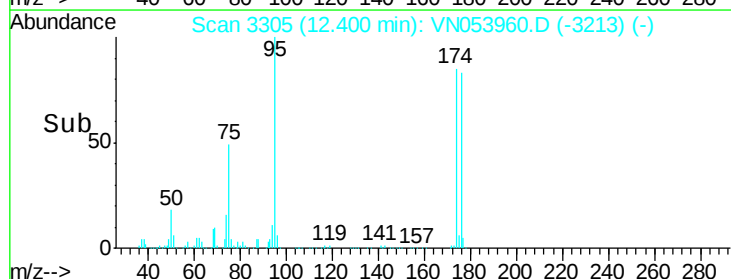
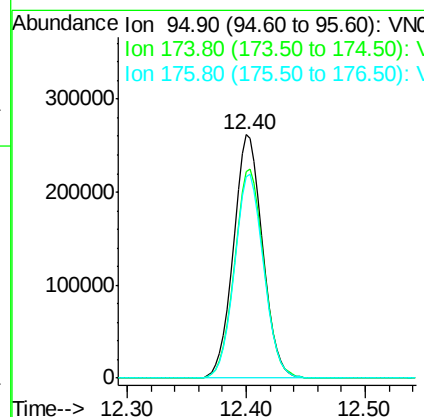
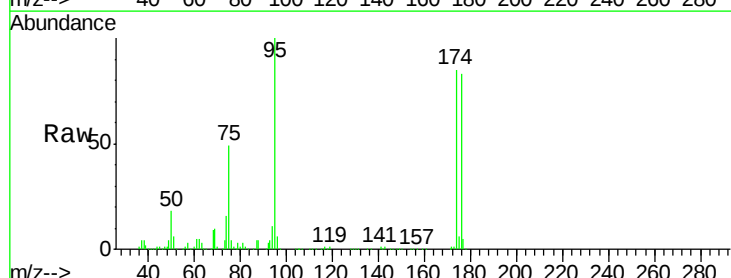
Instrument :
MSVOA_N
ClientSampleId :
PB117375ZHE#03

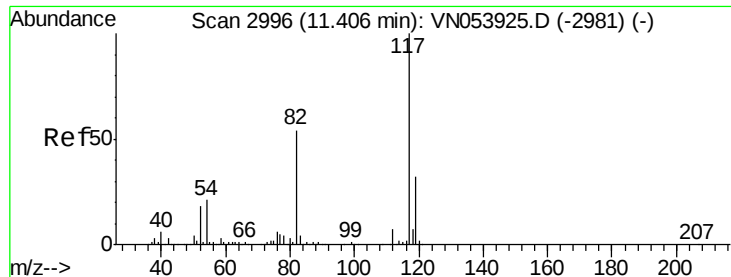
Tot Ion: 43 Resp: 195008
Ion Ratio Lower Upper
43 100
58 19.3 29.1 87.4#



#62
4-Bromofluorobenzene
Concen: 51.208 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN053960.D
Acq: 26 Feb 2019 17:31

Tgt Ion: 95 Resp: 443870
Ion Ratio Lower Upper
95 100
174 86.6 0.0 188.8
176 83.9 0.0 182.6

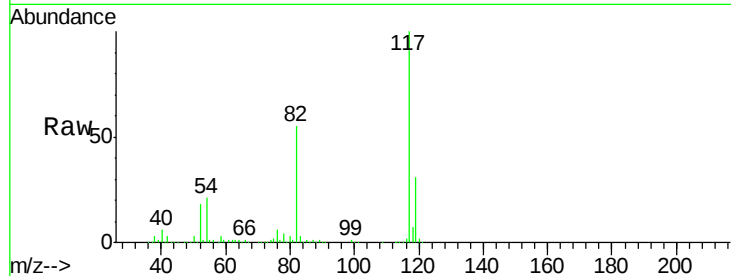




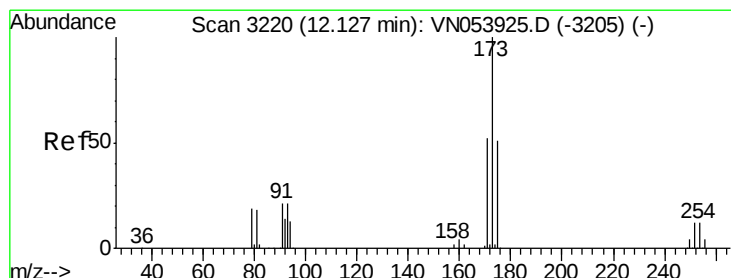
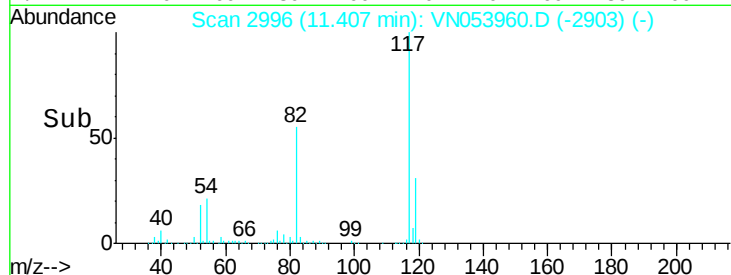
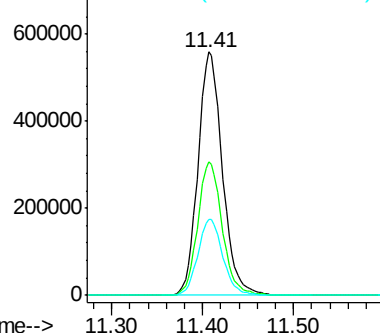
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053960.D
Acq: 26 Feb 2019 17:31

Instrument :
MSVOA_N
ClientSampleId :
PB117375ZHE#03

Tot Ion:117 Resp: 1038530
Ion Ratio Lower Upper
117 100
82 54.9 41.4 62.2
119 31.5 25.3 37.9

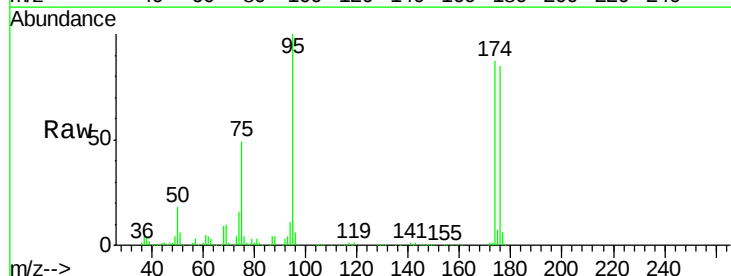


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

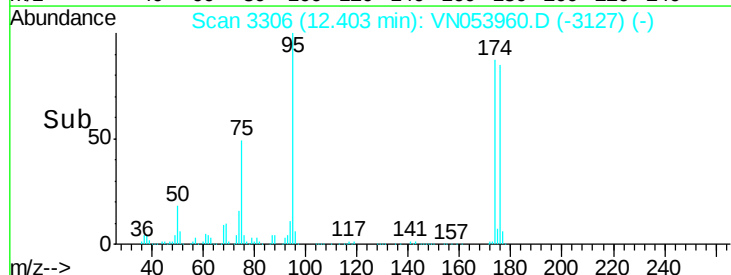
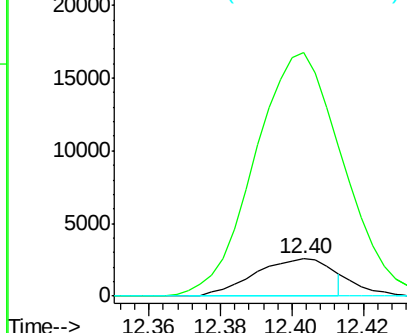


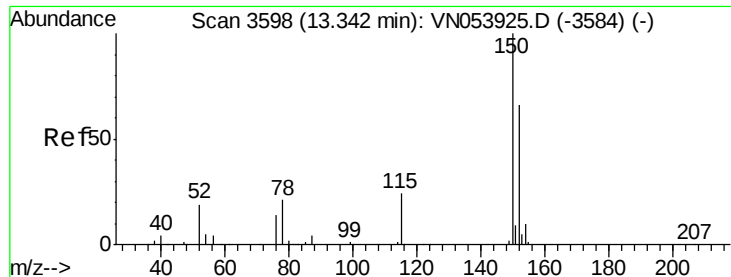
#71
Bromoform
Concen: 0.691 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053960.D
Acq: 26 Feb 2019 17:31

Tgt Ion:173 Resp: 3800
Ion Ratio Lower Upper
173 100
175 648.6 24.3 72.8#
254 0.0 0.2 0.2#



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN053960.D

Acq: 26 Feb 2019 17:31

Instrument :

MSVOA_N

ClientSampleId :

PB117375ZHE#03

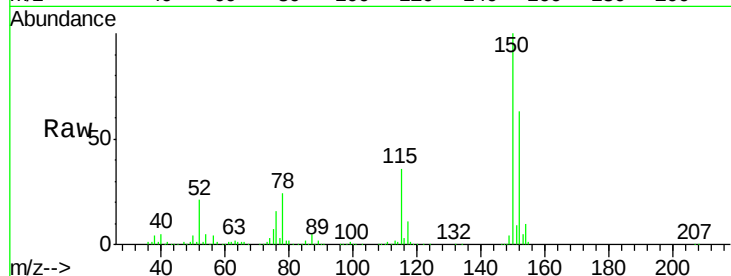
Tot Ion:152 Resp: 374462

Ion Ratio Lower Upper

152 100

115 55.7 27.2 81.6

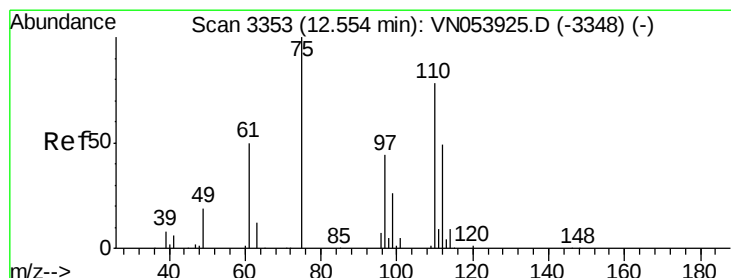
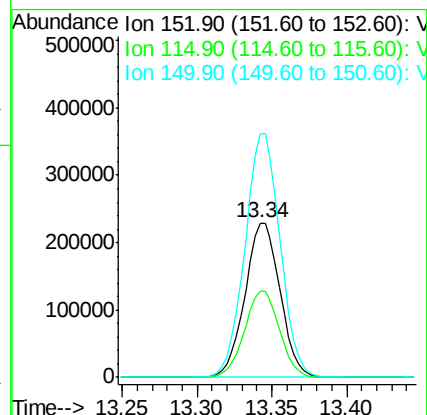
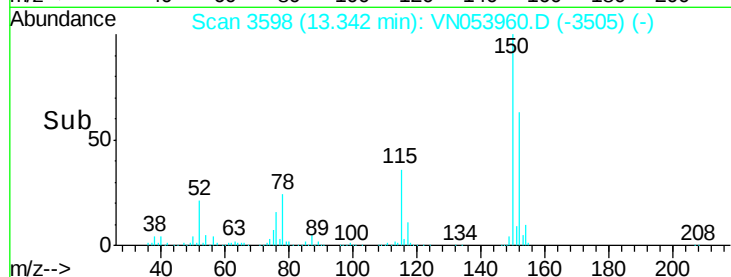
150 158.0 0.0 348.2



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



#76

1,2,3-Trichloropropane

Concen: 36.048 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053960.D

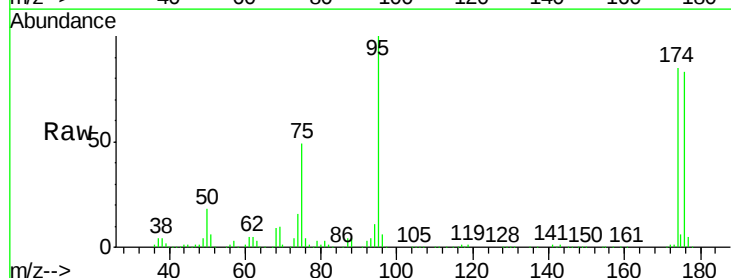
Acq: 26 Feb 2019 17:31

Tgt Ion: 75 Resp: 216542

Ion Ratio Lower Upper

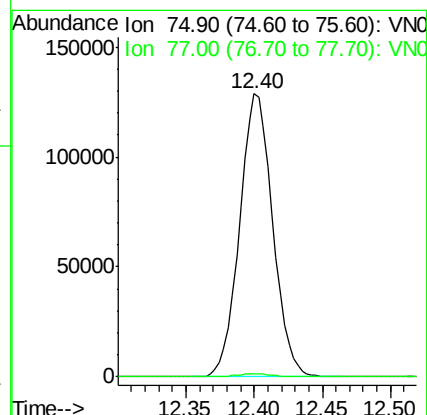
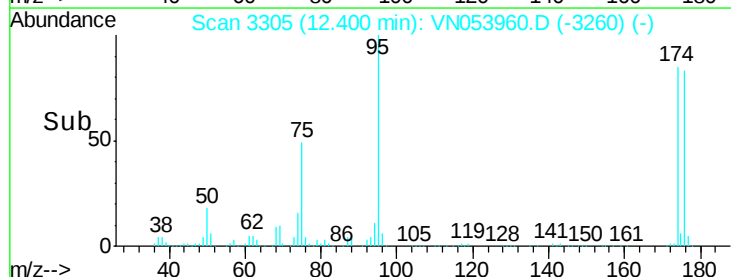
75 100

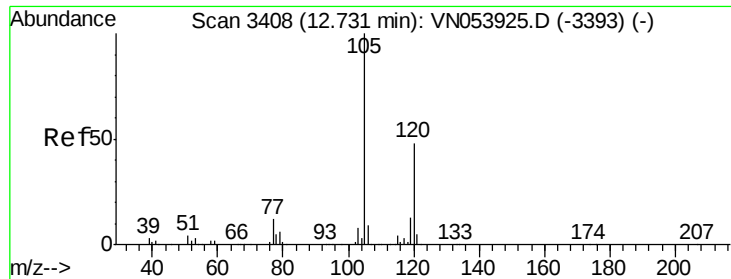
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

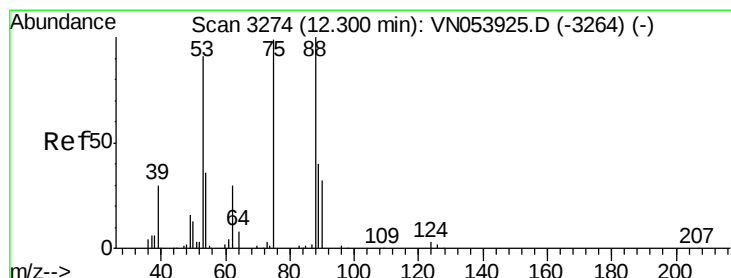
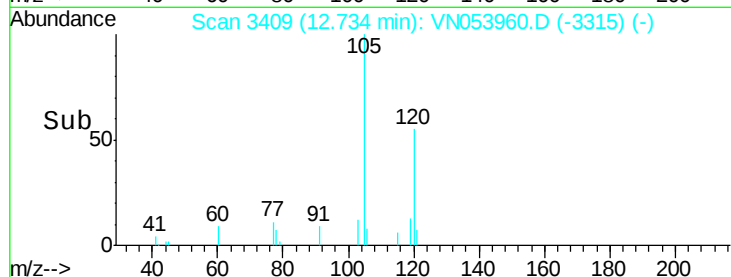
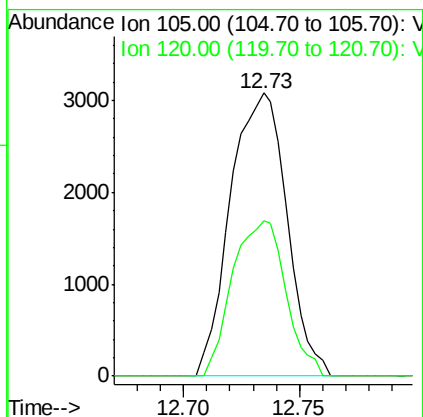
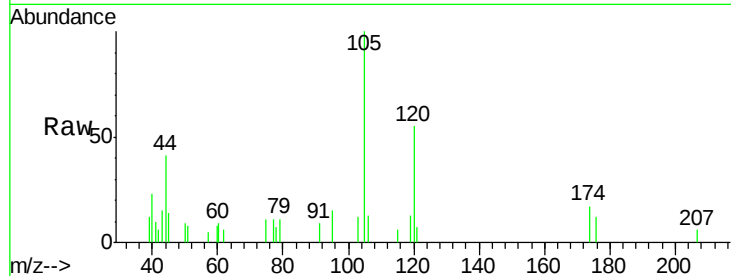




#80
 1,3,5-Trimethylbenzene
 Concen: 0.218 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN053960.D
 Acq: 26 Feb 2019 17:31

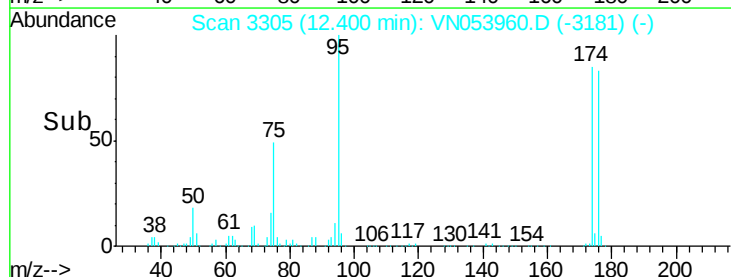
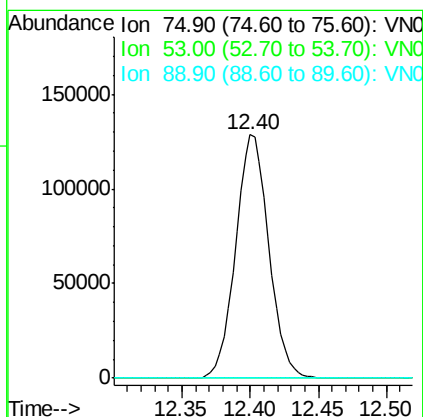
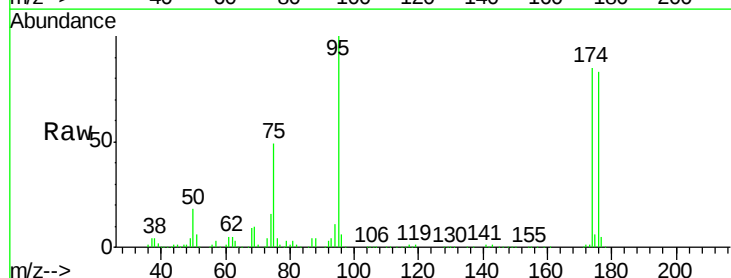
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117375ZHE#03

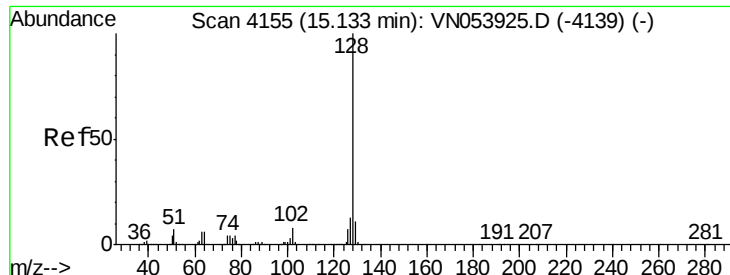
Tot Ion:105 Resp: 5214
 Ion Ratio Lower Upper
 105 100
 120 51.8 25.1 75.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 113.934 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN053960.D
 Acq: 26 Feb 2019 17:31

Tgt Ion: 75 Resp: 216542
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.6 102.8#
 89 0.0 35.3 52.9#





#95

Naphthalene

Concen: 3.226 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN053960.D

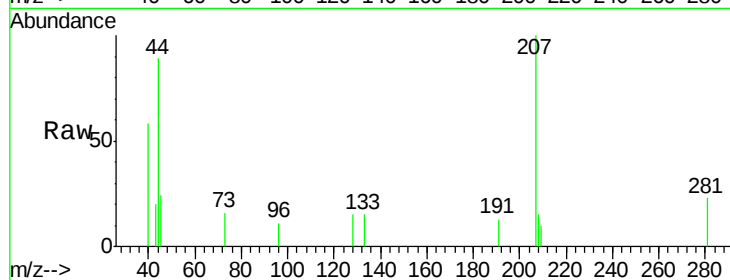
Acq: 26 Feb 2019 17:31

Instrument :

MSVOA_N

ClientSampleId :

PB117375ZHE#03



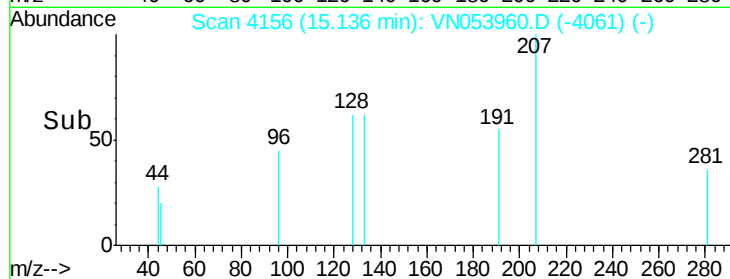
Tot Ion:128 Resp: 227

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.6 12.8#



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

