

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022619\
 Data File : VN053963.D
 Acq On : 26 Feb 2019 18:51
 Operator : JC/SP
 Sample : PB117375ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB117375ZHE#06

Quant Time: Feb 27 02:30:05 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	606262	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1117576	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1066588	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	364393	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	389398	54.79	ug/l	0.00
Spiked Amount			Recovery	=	109.58%	
35) Dibromofluoromethane	7.59	113	363536	50.30	ug/l	0.00
Spiked Amount			Recovery	=	100.60%	
50) Toluene-d8	10.09	98	1408768	52.37	ug/l	0.00
Spiked Amount			Recovery	=	104.74%	
62) 4-Bromofluorobenzene	12.40	95	447521	49.93	ug/l	0.00
Spiked Amount			Recovery	=	99.86%	

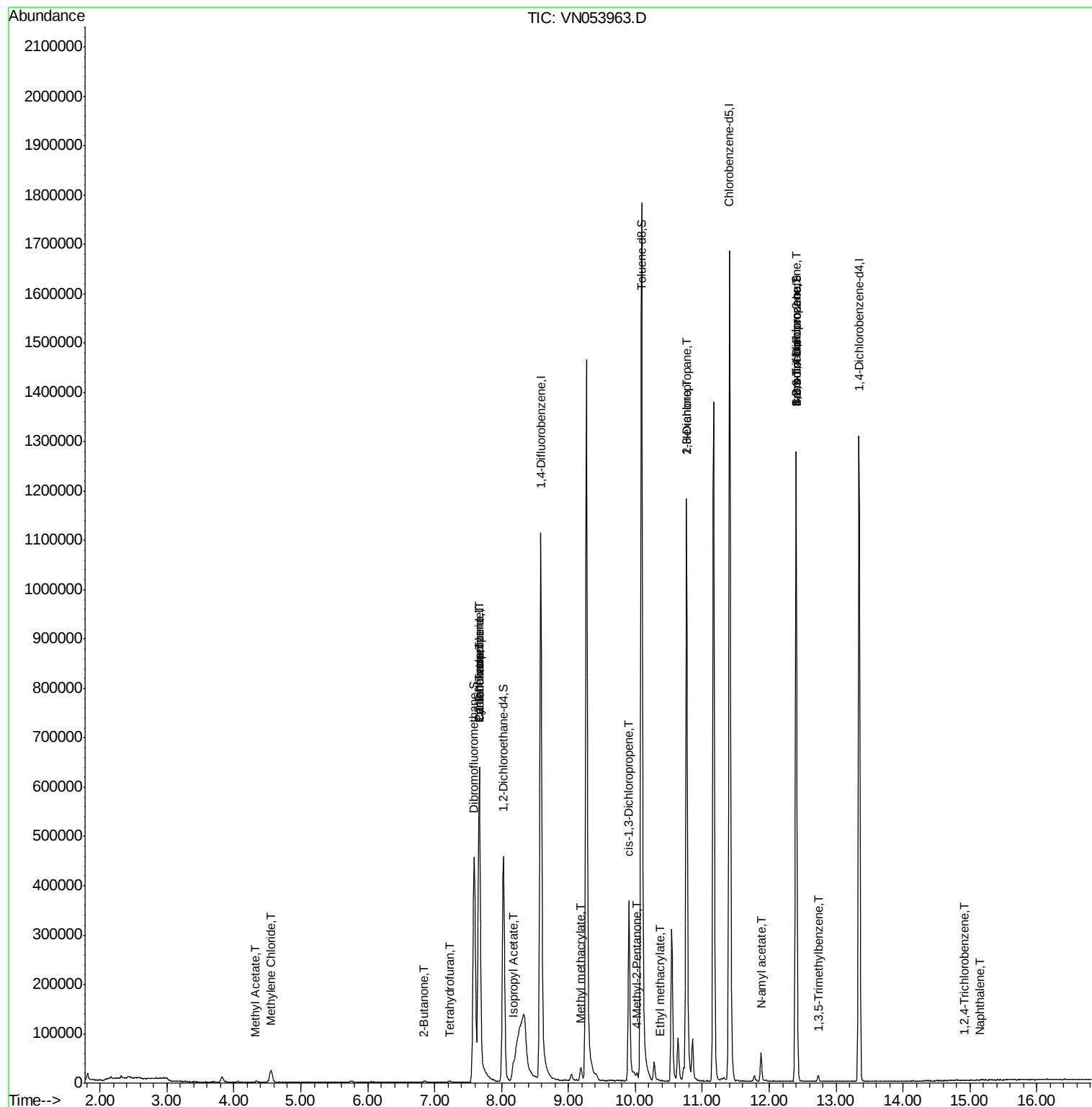
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	17442	Below Cal		93
18) Methyl Acetate	4.32	43	1979	0.398	ug/l #	60
20) Methylene Chloride	4.56	84	17067	2.426	ug/l #	85
25) 2-Butanone	6.85	43	5006	1.794	ug/l #	89
29) Tetrahydrofuran	7.22	42	2284	1.229	ug/l #	54
31) Cyclohexane	7.66	56	10480	0.516	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	41330	3.977	ug/l #	44
38) Carbon Tetrachloride	7.67	117	52771	4.882	ug/l #	17
43) Isopropyl Acetate	8.17	43	30348	2.422	ug/l #	94
48) Methyl methacrylate	9.18	41	10518	1.825	ug/l #	12
51) 4-Methyl-2-Pentanone	10.02	43	10698	1.662	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	68037	5.628	ug/l #	71
56) Ethyl methacrylate	10.36	69	76	1.963	ug/l #	29
57) 1,3-Dichloropropane	10.76	76	12699	1.070	ug/l #	43
59) 2-Hexanone	10.76	43	188417	44.994	ug/l #	48
71) Bromoform	12.40	173	3535	0.626	ug/l #	1
74) N-amyl acetate	11.88	43	19680	2.647	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	217900	37.277	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5622	0.242	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	217900	117.817	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	30	2.227	ug/l #	11
95) Naphthalene	15.14	128	30	3.214	ug/l #	70

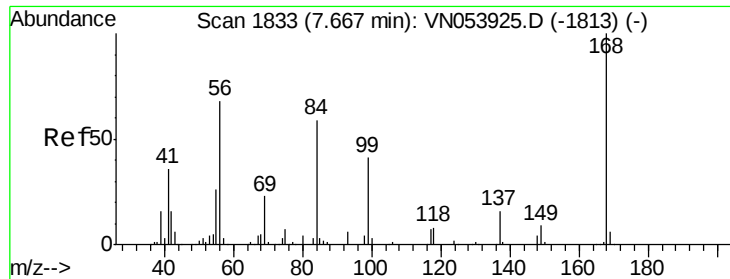
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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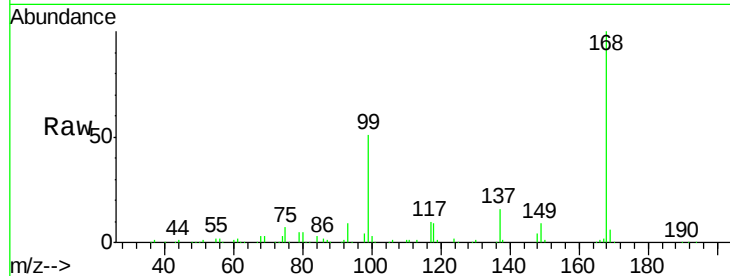


#1

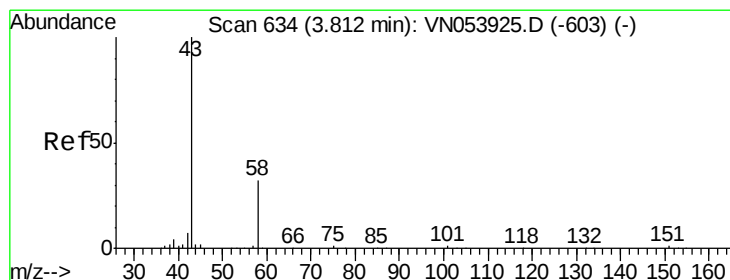
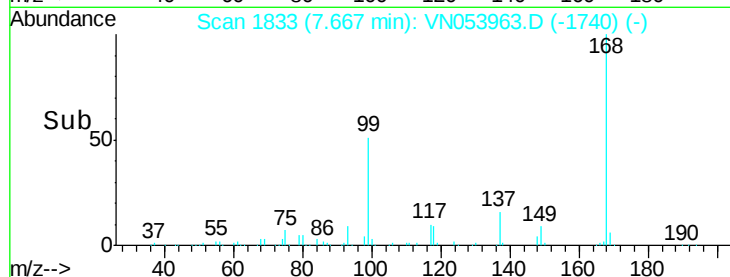
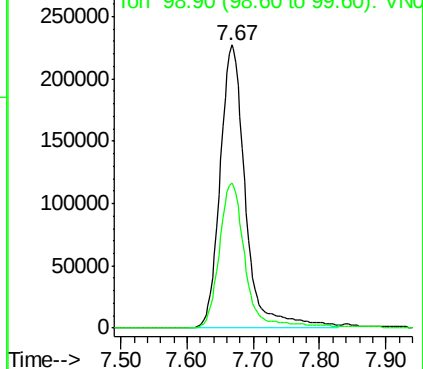
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. 0.00 min
 Lab File: VN053963.D
 Acq: 26 Feb 2019 18:51

Instrument :
 MSVOA_N
 ClientSampleId :
 PB117375ZHE#06

Tot Ion:168 Resp: 606262
 Ion Ratio Lower Upper
 168 100
 99 51.3 36.9 55.3



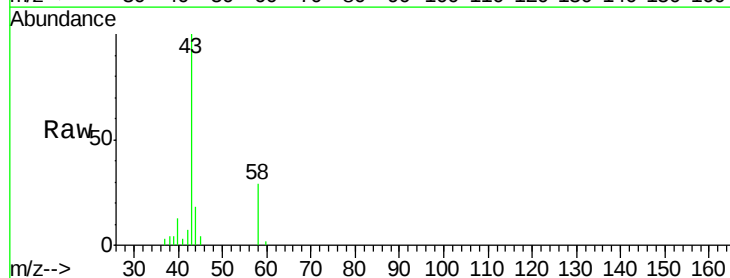
Abundance Ion 167.90 (167.60 to 168.60): VN053925.D (-1813) (-)
 Ion 98.90 (98.60 to 99.60): VN053925.D (-1813) (-)



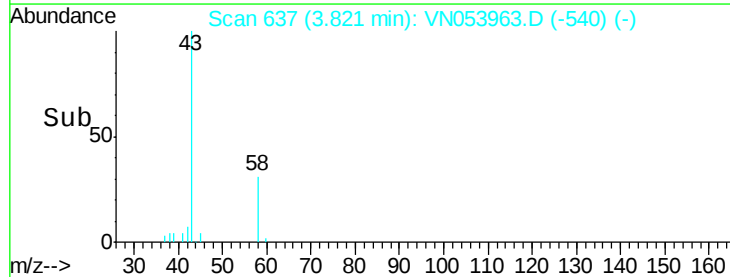
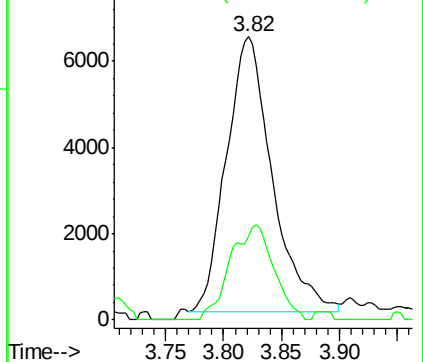
#16

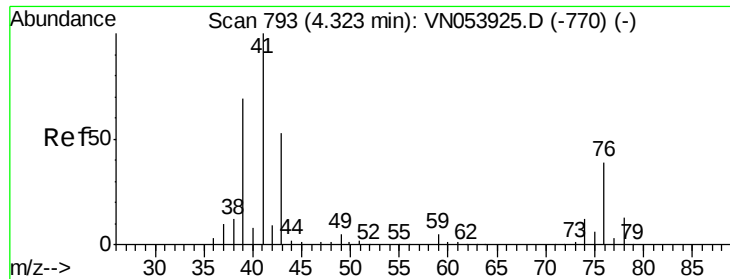
Acetone
 Concen: Below Cal
 RT: 3.82 min Scan# 637
 Delta R.T. 0.01 min
 Lab File: VN053963.D
 Acq: 26 Feb 2019 18:51

Tgt Ion: 43 Resp: 17442
 Ion Ratio Lower Upper
 43 100
 58 30.4 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VN053925.D (-603) (-)
 Ion 58.00 (57.70 to 58.70): VN053925.D (-603) (-)

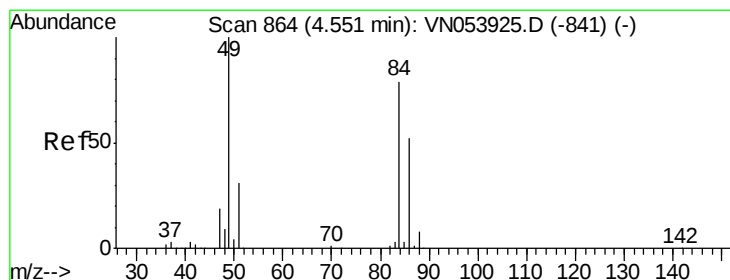
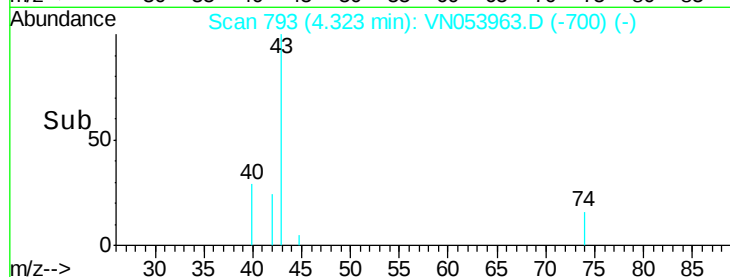
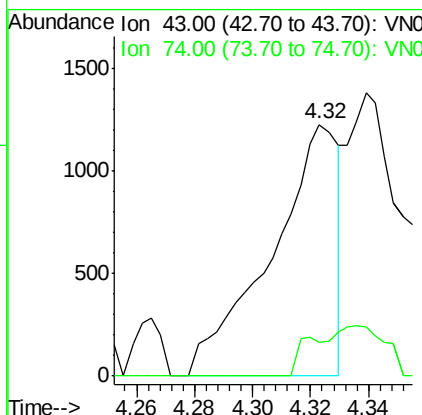
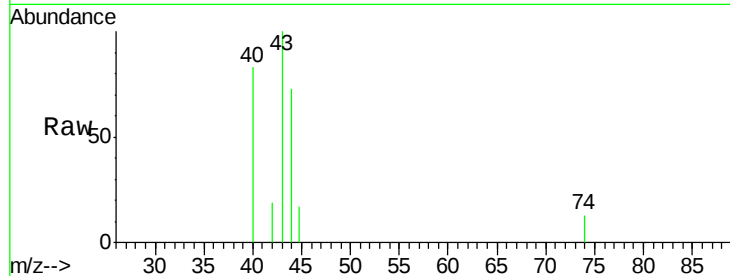




#18
Methyl Acetate
Concen: 0.398 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053963.D
Acq: 26 Feb 2019 18:51

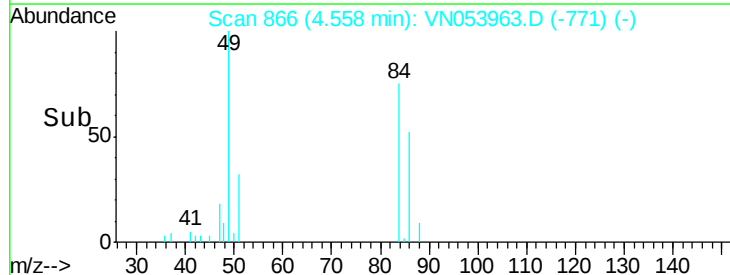
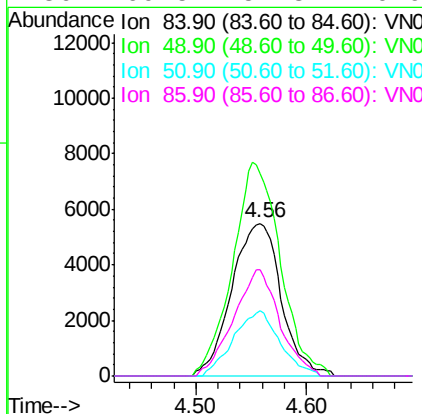
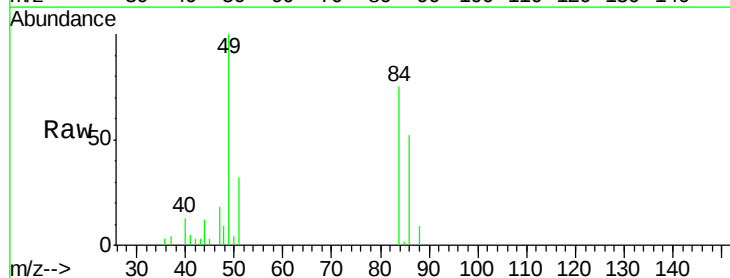
Instrument :
MSVOA_N
ClientSampleId :
PB117375ZHE#06

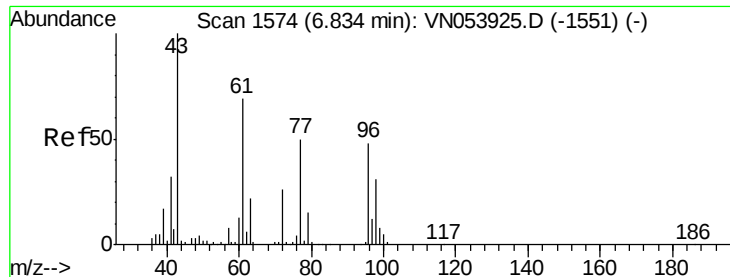
Tot Ion: 43 Resp: 1979
Ion Ratio Lower Upper
43 100
74 5.2 20.5 30.7#



#20
Methylene Chloride
Concen: 2.426 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN053963.D
Acq: 26 Feb 2019 18:51

Tgt Ion: 84 Resp: 17067
Ion Ratio Lower Upper
84 100
49 132.8 89.7 134.5
51 42.4 27.8 41.8#
86 69.5 51.3 76.9

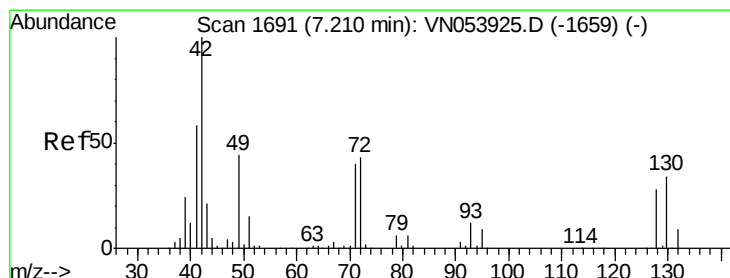
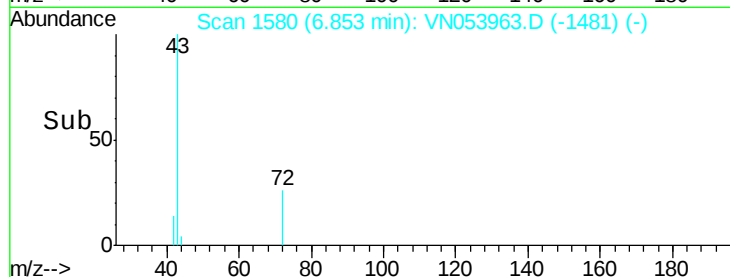
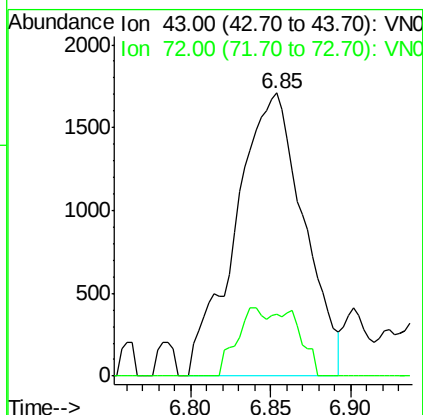
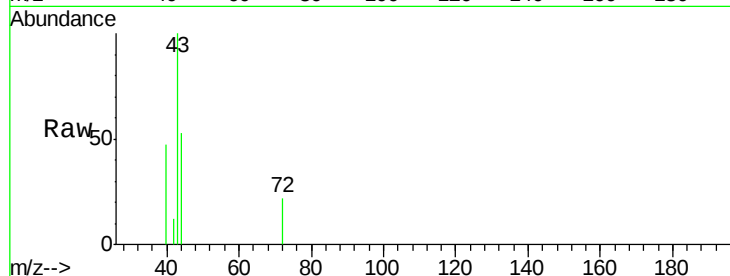




#25
2-Butanone
Concen: 1.794 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.02 min
Lab File: VN053963.D
Acq: 26 Feb 2019 18:51

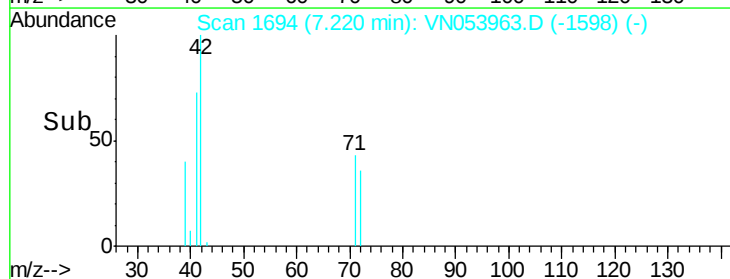
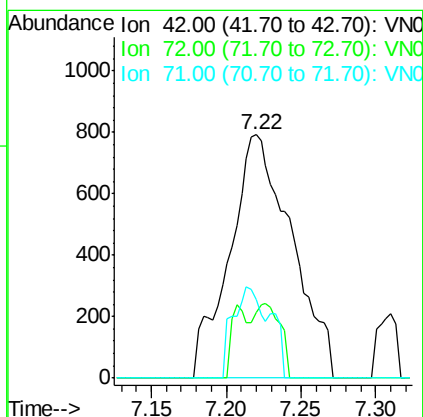
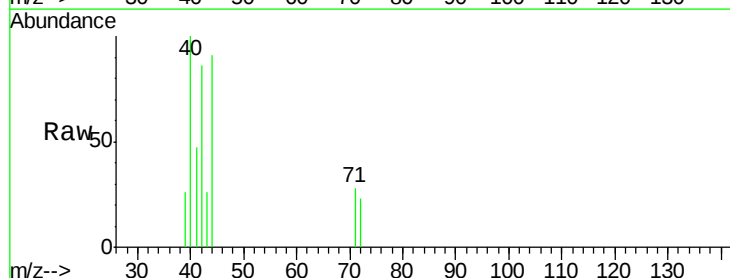
Instrument :
MSVOA_N
ClientSampleId :
PB117375ZHE#06

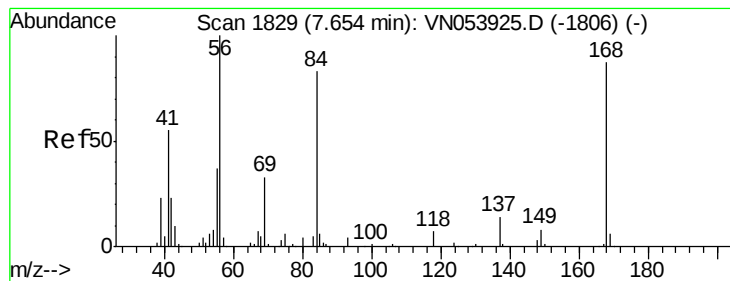
Tot Ion: 43 Resp: 5006
Ion Ratio Lower Upper
43 100
72 22.1 22.1 33.1#



#29
Tetrahydrofuran
Concen: 1.229 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN053963.D
Acq: 26 Feb 2019 18:51

Tgt Ion: 42 Resp: 2284
Ion Ratio Lower Upper
42 100
72 12.3 36.9 55.3#
71 17.6 34.6 52.0#





#31

Cyclohexane

Concen: 0.516 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053963.D

Acq: 26 Feb 2019 18:51

Instrument :

MSVOA_N

ClientSampleId :

PB117375ZHE#06

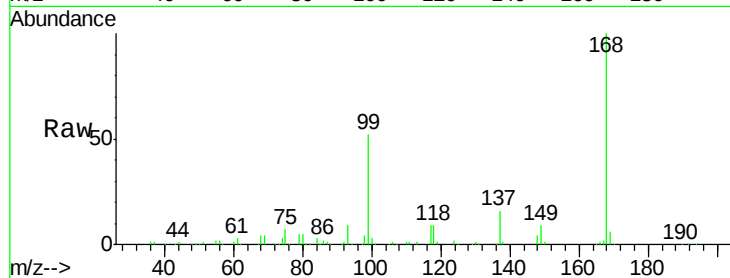
Tot Ion: 56 Resp: 10480

Ion Ratio Lower Upper

56 100

69 191.8 26.0 39.0#

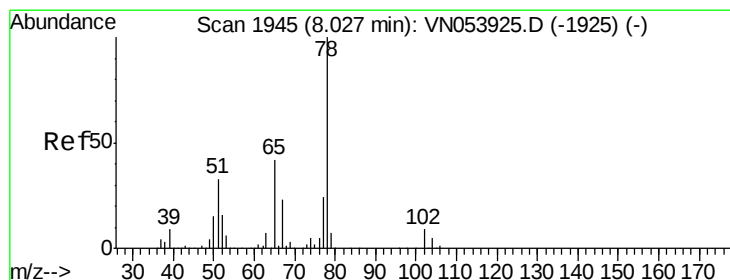
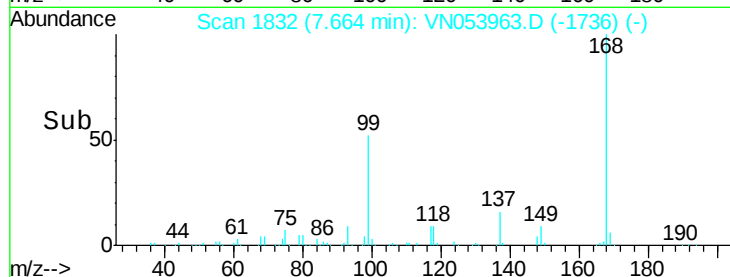
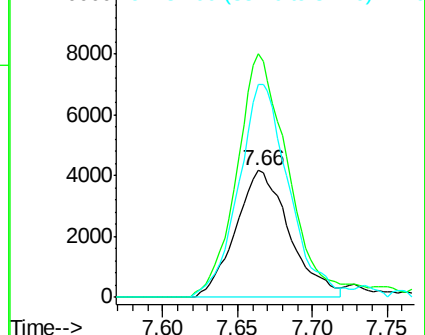
84 174.8 69.1 103.7#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 54.793 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053963.D

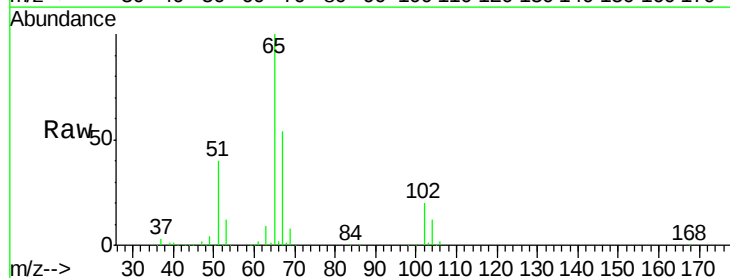
Acq: 26 Feb 2019 18:51

Tgt Ion: 65 Resp: 389398

Ion Ratio Lower Upper

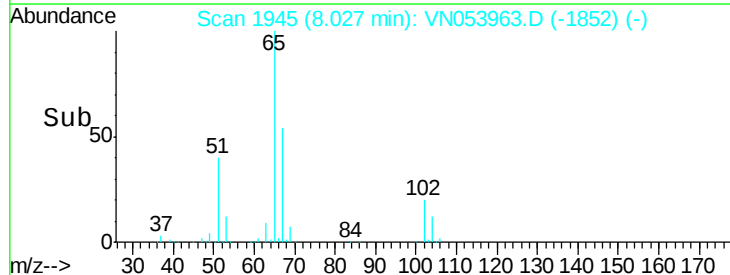
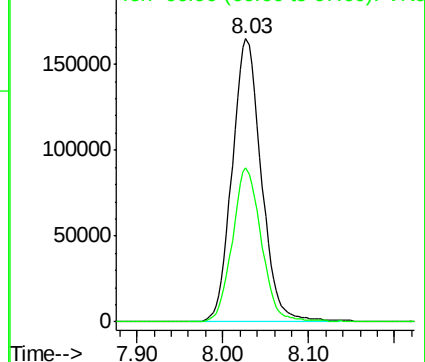
65 100

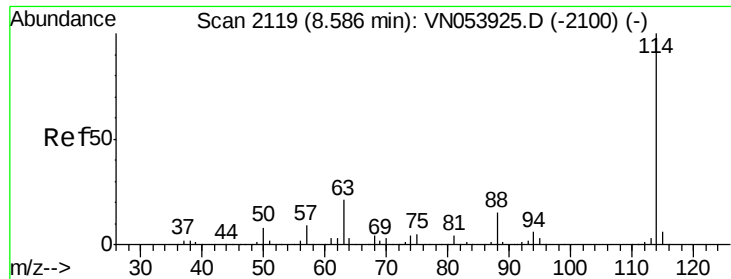
67 54.0 0.0 111.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

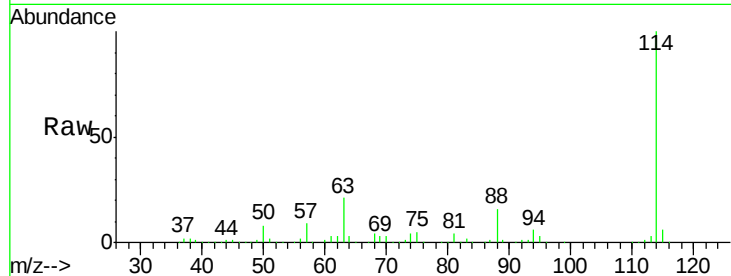




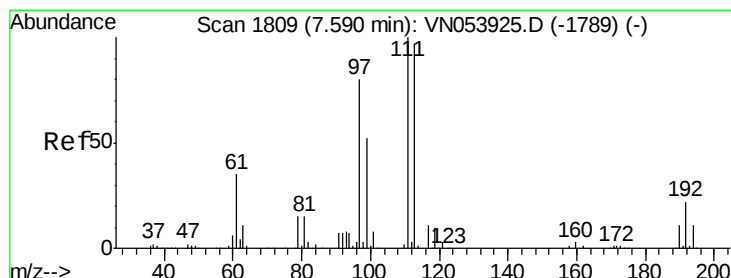
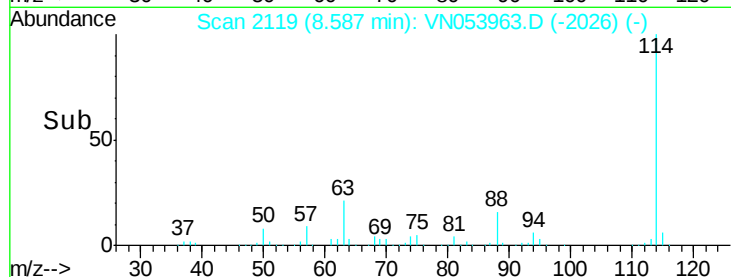
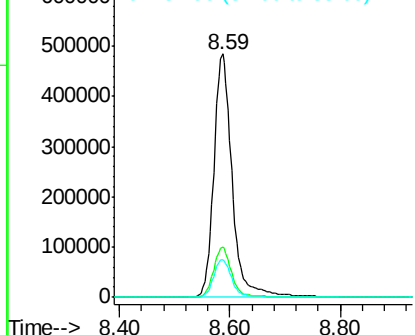
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053963.D
 Acq: 26 Feb 2019 18:51

Instrument :
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 PB117375ZHE#06

Tot Ion:114 Resp: 1117576
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 37.4
 88 15.5 0.0 30.4

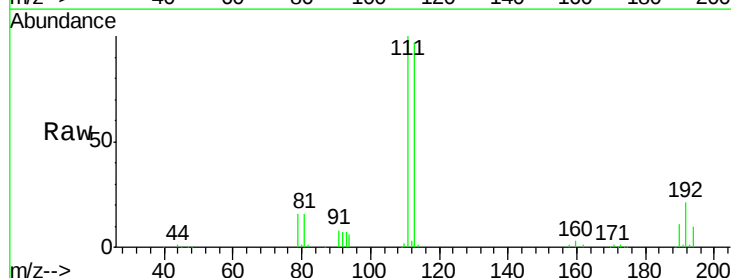


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

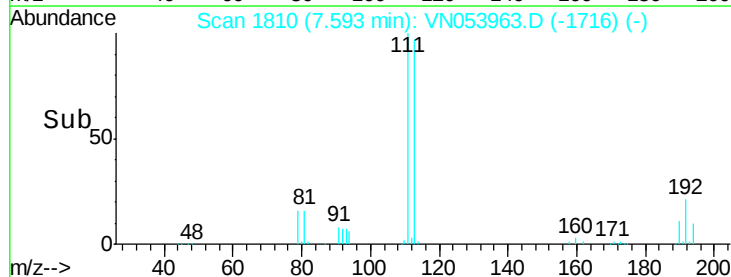
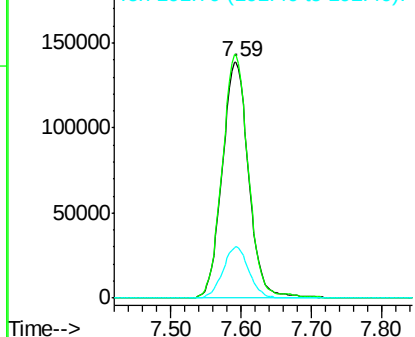


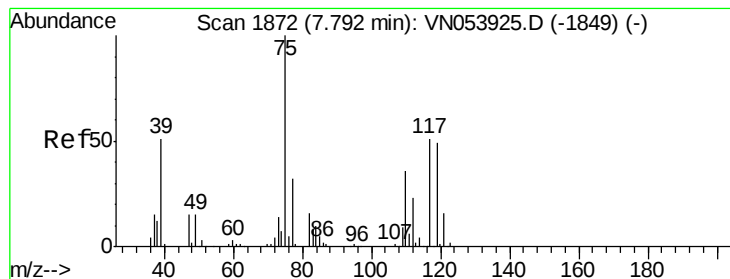
#35
 Dibromofluoromethane
 Concen: 50.303 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053963.D
 Acq: 26 Feb 2019 18:51

Tgt Ion:113 Resp: 363536
 Ion Ratio Lower Upper
 113 100
 111 101.8 81.1 121.7
 192 21.4 18.8 28.2



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: 3.977 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.12 min

Lab File: VN053963.D

Acq: 26 Feb 2019 18:51

Instrument :

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ClientSampleId :

PB117375ZHE#06

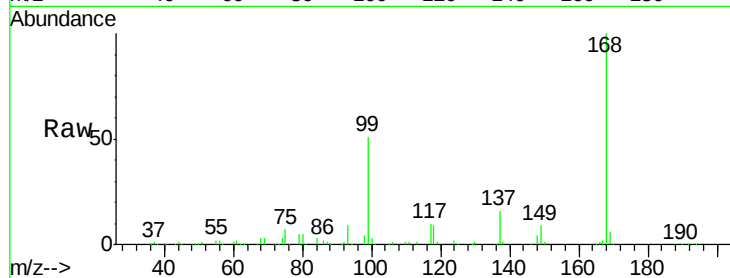
Tot Ion: 75 Resp: 41330

Ion Ratio Lower Upper

75 100

110 4.5 19.0 57.0#

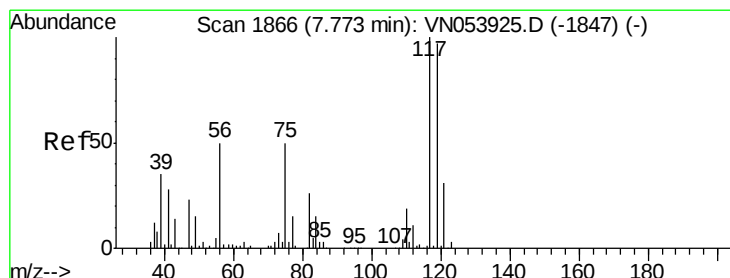
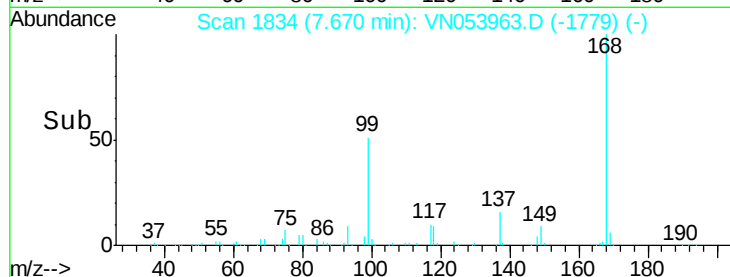
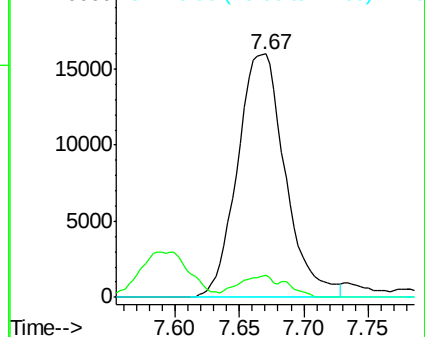
77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 4.882 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053963.D

Acq: 26 Feb 2019 18:51

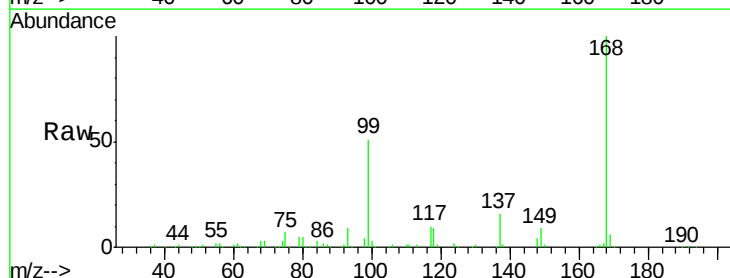
Tgt Ion: 117 Resp: 52771

Ion Ratio Lower Upper

117 100

119 5.9 76.2 114.2#

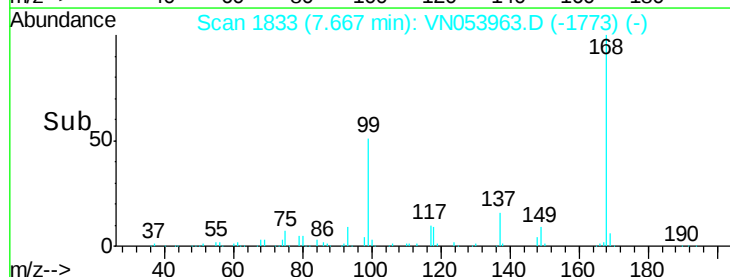
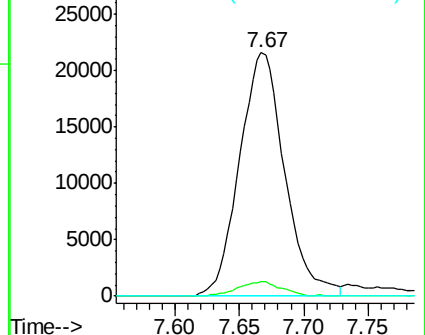
121 0.0 24.6 36.8#

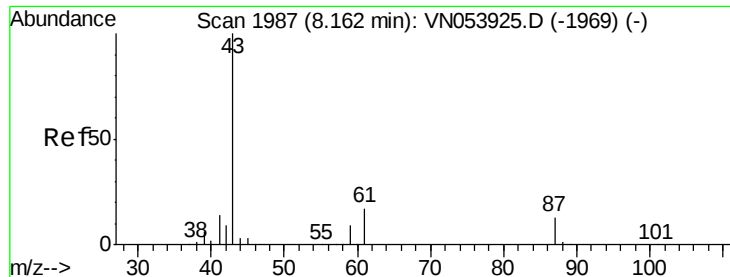


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 2.422 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN053963.D

Acq: 26 Feb 2019 18:51

Instrument :

MSVOA_N

ClientSampleId :

PB117375ZHE#06

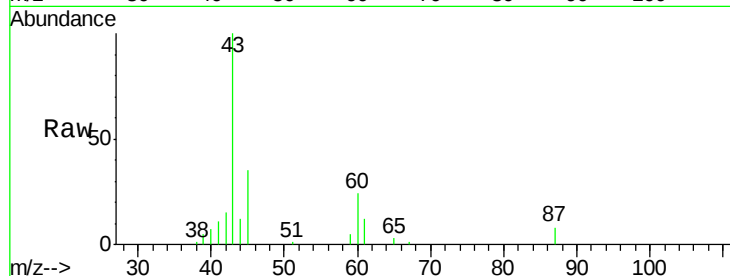
Tot Ion: 43 Resp: 30348

Ion Ratio Lower Upper

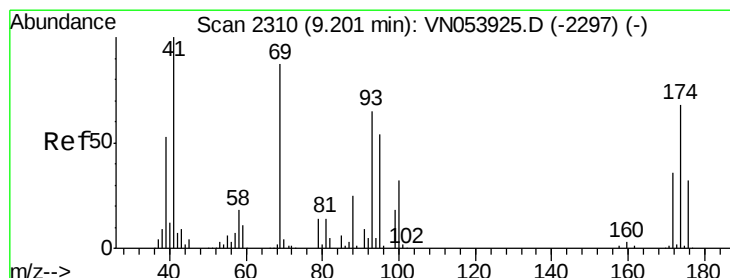
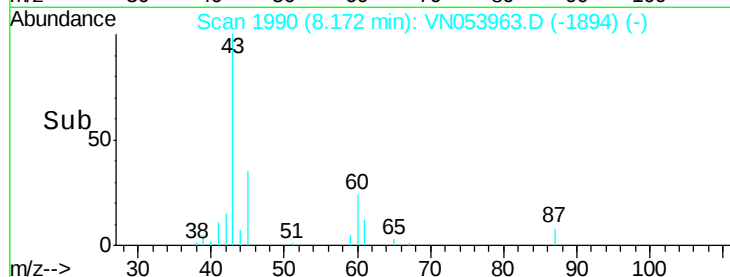
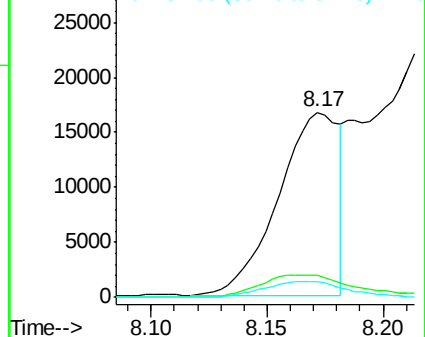
43 100

61 18.7 17.4 26.0

87 11.6 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



#48

Methyl methacrylate

Concen: 1.825 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN053963.D

Acq: 26 Feb 2019 18:51

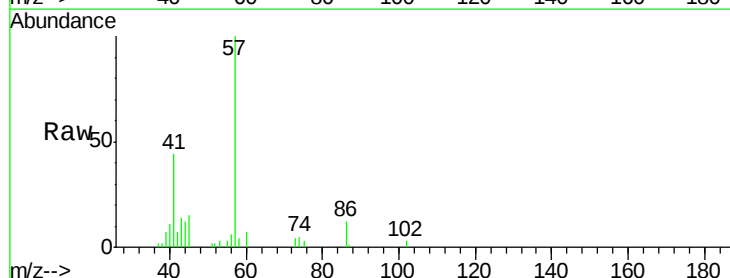
Tgt Ion: 41 Resp: 10518

Ion Ratio Lower Upper

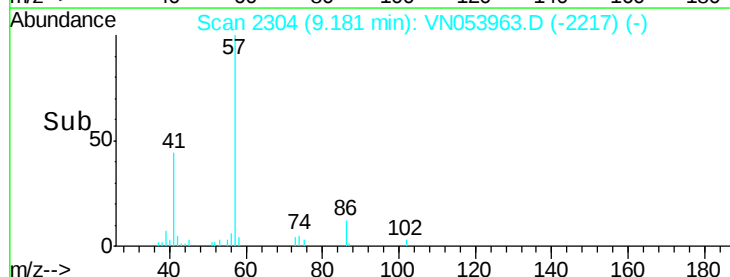
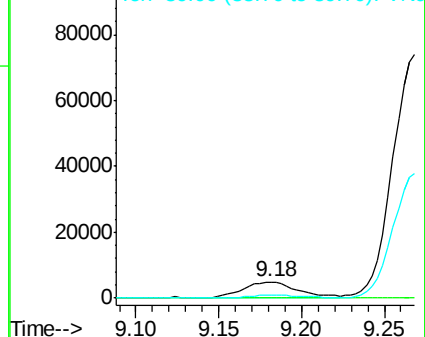
41 100

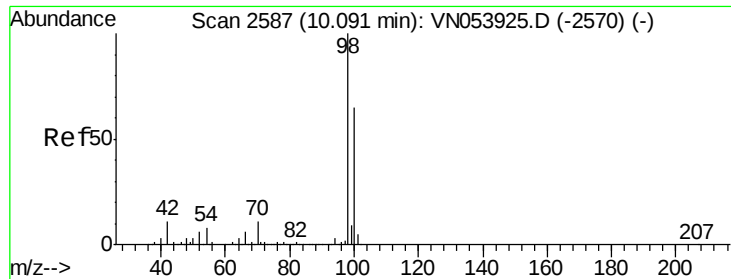
69 0.0 74.8 112.2#

39 0.0 39.0 58.6#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 52.366 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053963.D

Acq: 26 Feb 2019 18:51

Instrument :

MSVOA_N

ClientSampleId :

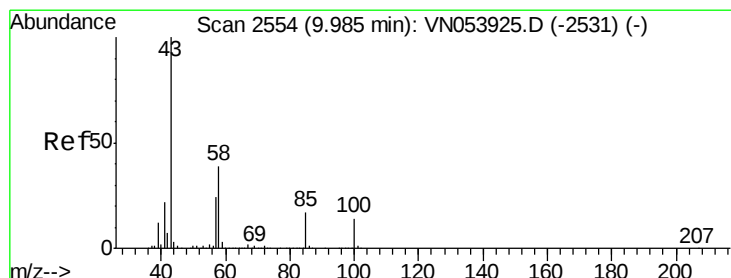
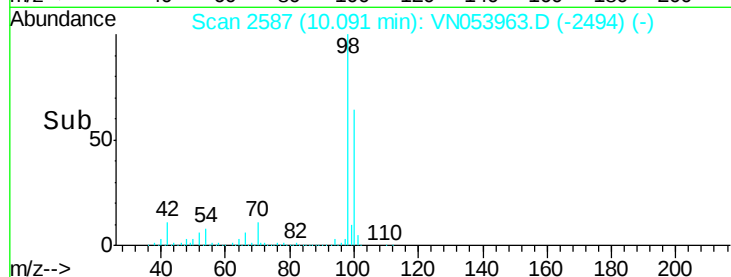
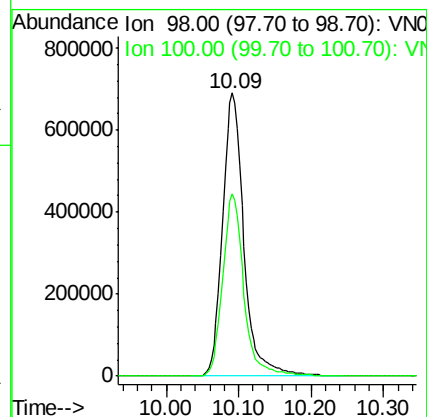
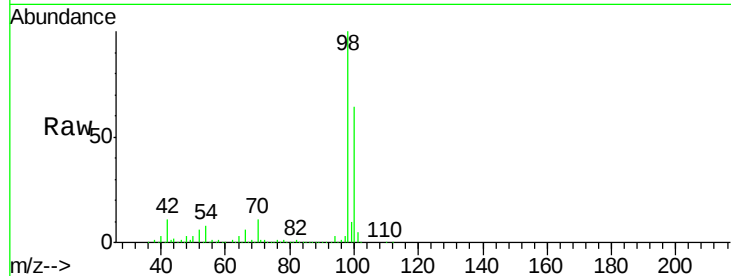
PB117375ZHE#06

Tot Ion: 98 Resp: 1408768

Ion Ratio Lower Upper

98 100

100 63.6 51.9 77.9



#51

4-Methyl-2-Pentanone

Concen: 1.662 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053963.D

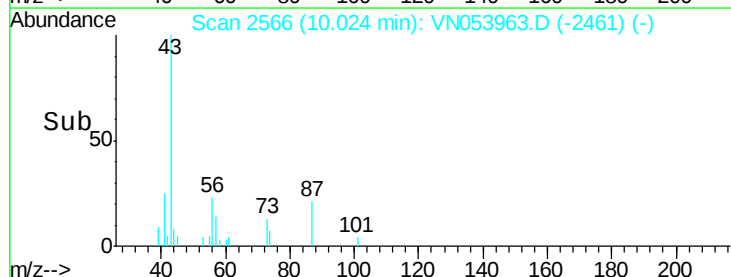
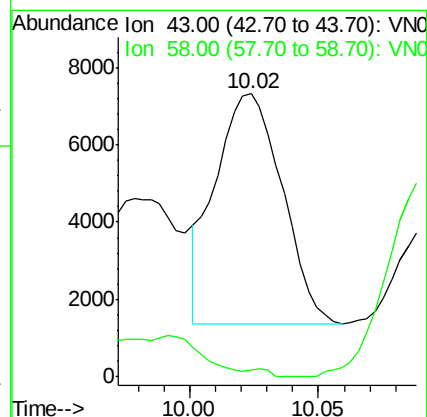
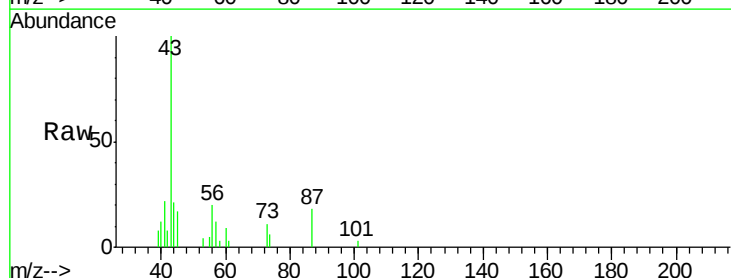
Acq: 26 Feb 2019 18:51

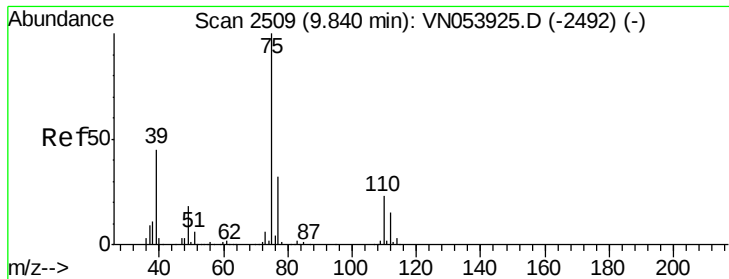
Tgt Ion: 43 Resp: 10698

Ion Ratio Lower Upper

43 100

58 0.0 32.7 49.1#





#54

cis-1,3-Dichloropropene

Concen: 5.628 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN053963.D

Acq: 26 Feb 2019 18:51

Instrument :

MSVOA_N

ClientSampleId :

PB117375ZHE#06

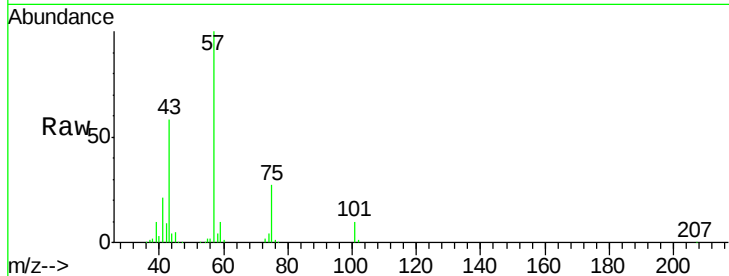
Tot Ion: 75 Resp: 68037

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

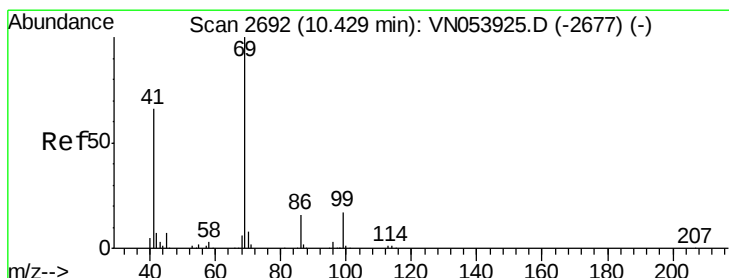
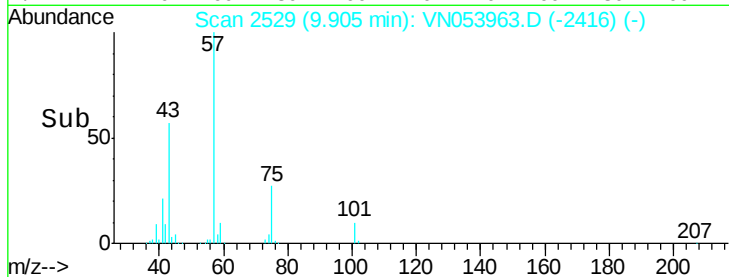
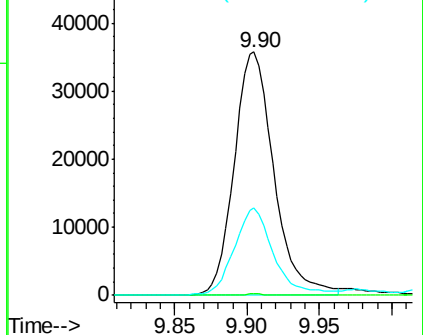
39 35.9 31.4 47.0



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



#56

Ethyl methacrylate

Concen: 1.963 ug/l

RT: 10.36 min Scan# 2672

Delta R.T. -0.06 min

Lab File: VN053963.D

Acq: 26 Feb 2019 18:51

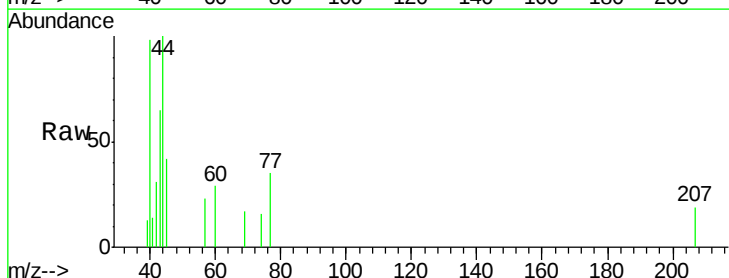
Tgt Ion: 69 Resp: 76

Ion Ratio Lower Upper

69 100

41 0.0 47.5 71.3#

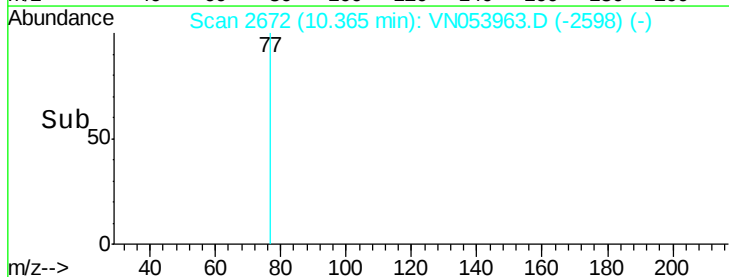
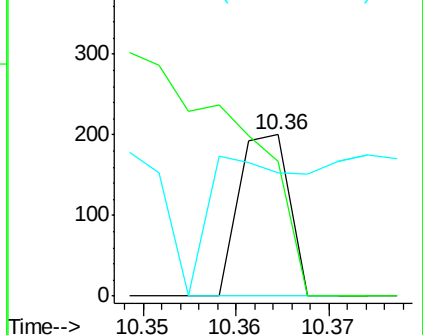
39 0.0 23.4 35.0#

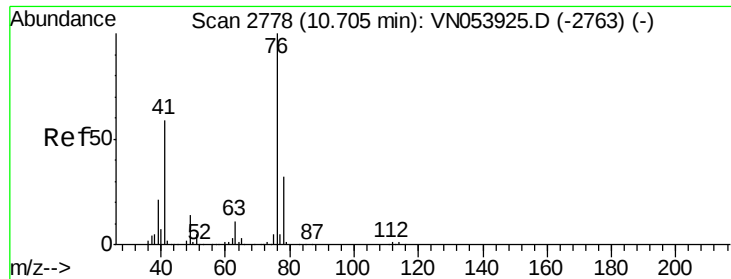


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

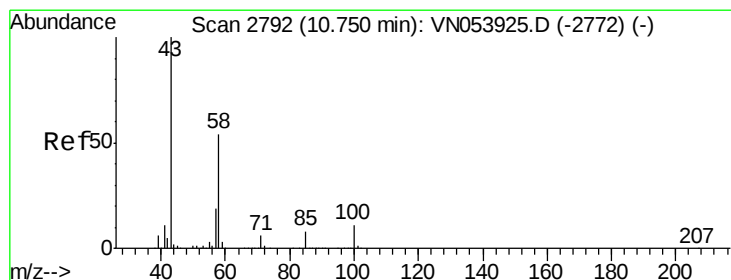
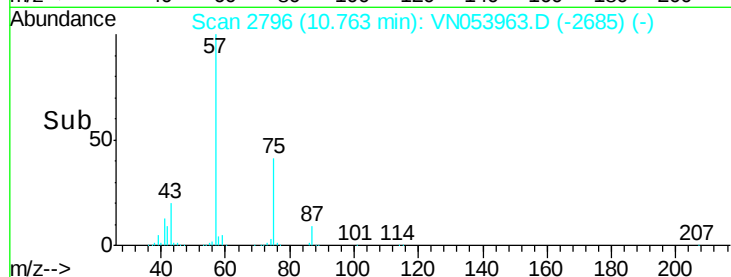
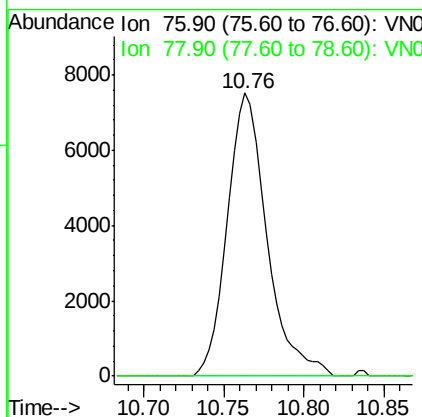
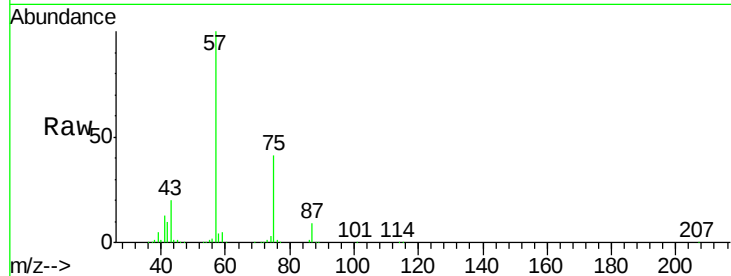




#57
 1,3-Dichloropropane
 Concen: 1.070 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN053963.D
 Acq: 26 Feb 2019 18:51

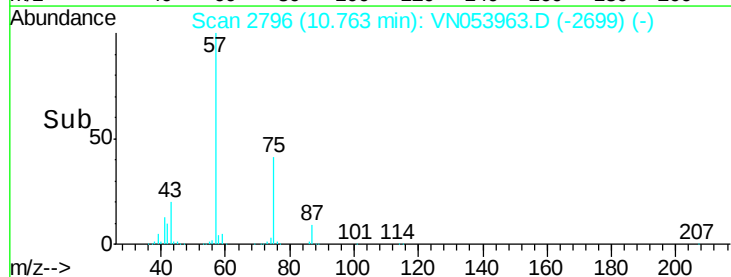
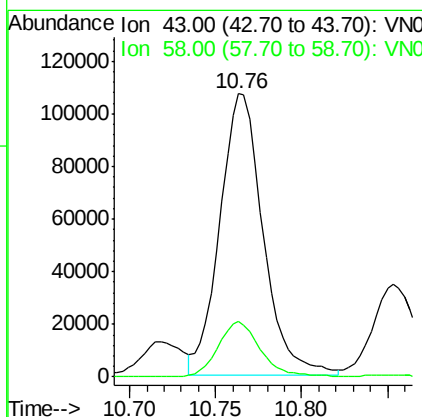
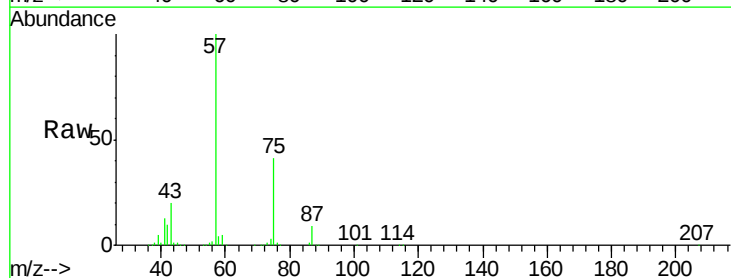
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117375ZHE#06

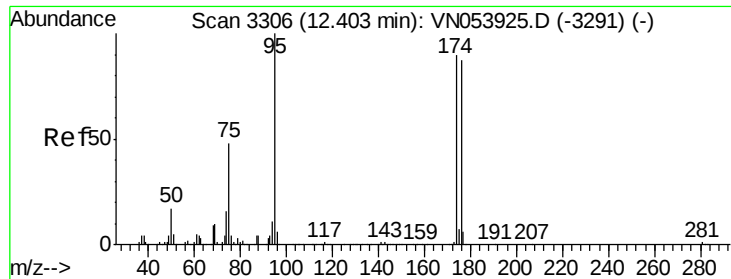
Tot Ion: 76 Resp: 12699
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.2 37.8#



#59
 2-Hexanone
 Concen: 44.994 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN053963.D
 Acq: 26 Feb 2019 18:51

Tgt Ion: 43 Resp: 188417
 Ion Ratio Lower Upper
 43 100
 58 19.5 29.1 87.4#





#62

4-Bromofluorobenzene

Concen: 49.929 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053963.D

Acq: 26 Feb 2019 18:51

Instrument :

MSVOA_N

ClientSampleId :

PB117375ZHE#06

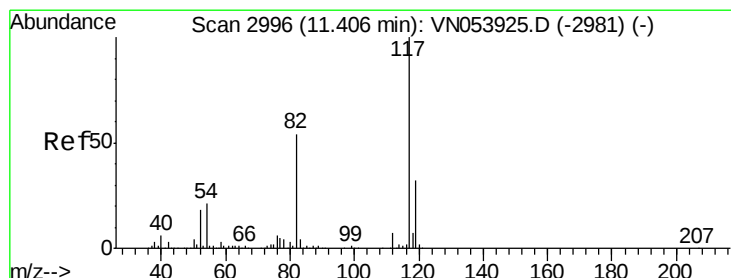
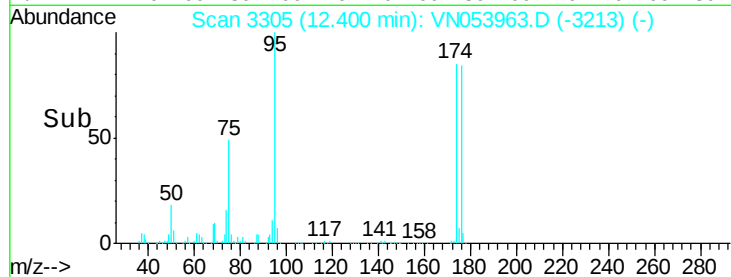
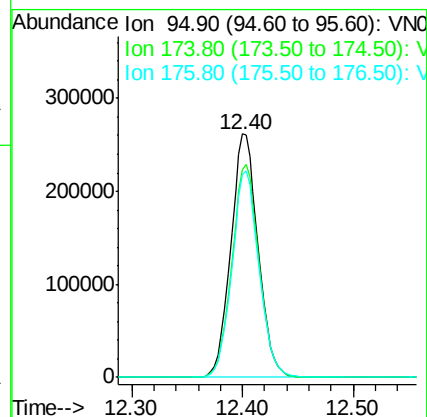
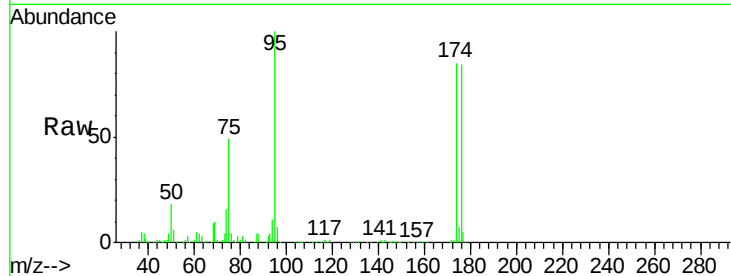
Tot Ion: 95 Resp: 447521

Ion Ratio Lower Upper

95 100

174 87.3 0.0 188.8

176 84.1 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: VN053963.D

Acq: 26 Feb 2019 18:51

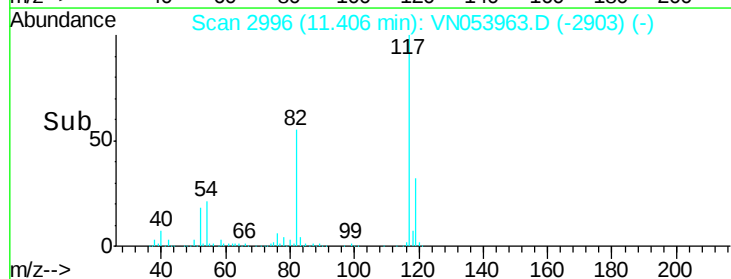
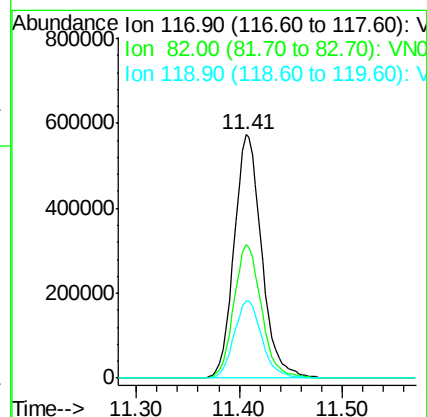
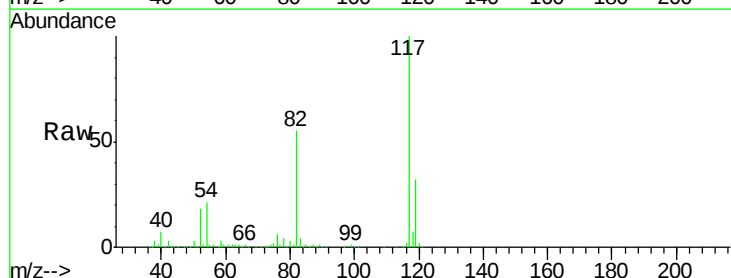
Tgt Ion: 117 Resp: 1066588

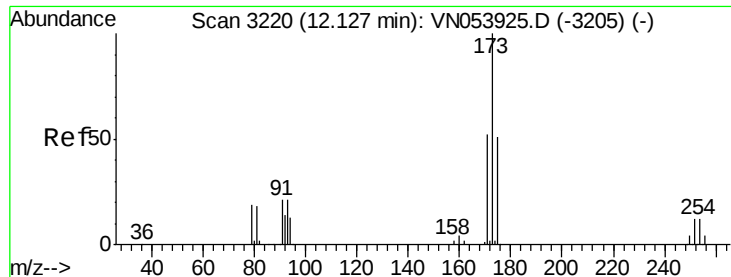
Ion Ratio Lower Upper

117 100

82 55.0 41.4 62.2

119 31.7 25.3 37.9





#71

Bromoform

Concen: 0.626 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053963.D

Acq: 26 Feb 2019 18:51

Instrument :

MSVOA_N

ClientSampleId :

PB117375ZHE#06

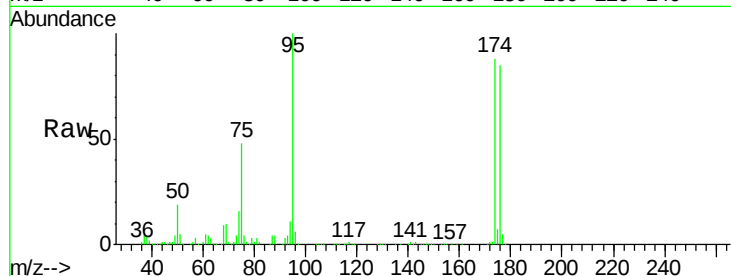
Tot Ion:173 Resp: 3535

Ion Ratio Lower Upper

173 100

175 694.9 24.3 72.8#

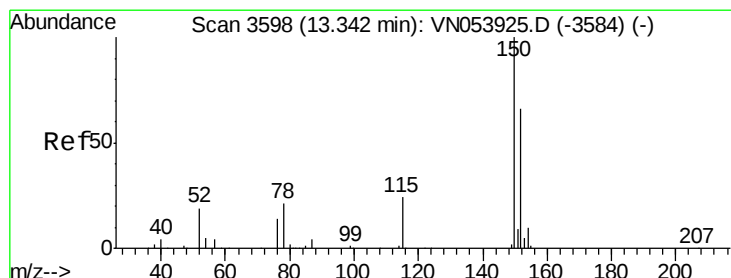
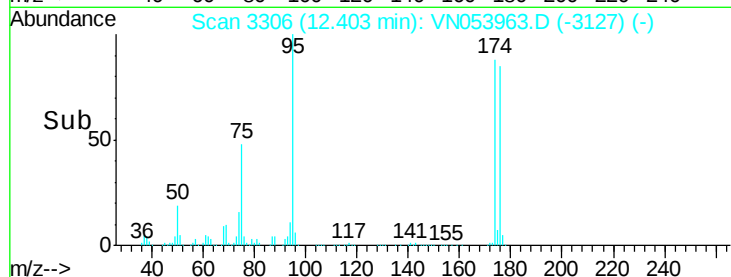
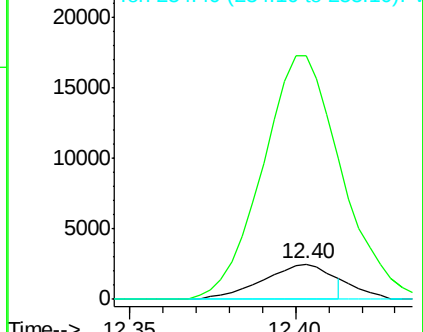
254 0.0 0.2 0.2#



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: VN053963.D

Acq: 26 Feb 2019 18:51

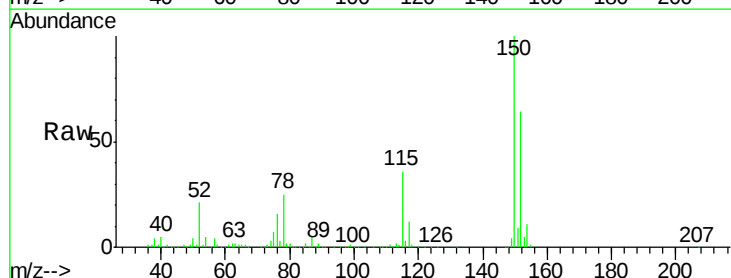
Tgt Ion:152 Resp: 364393

Ion Ratio Lower Upper

152 100

115 56.5 27.2 81.6

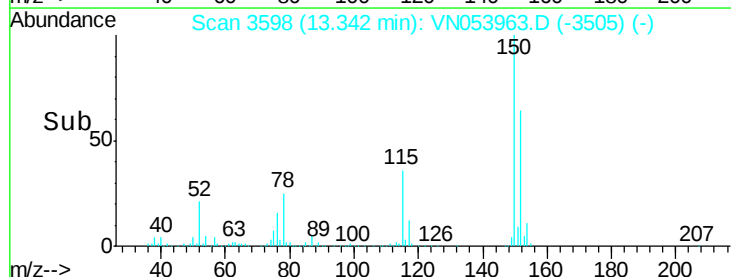
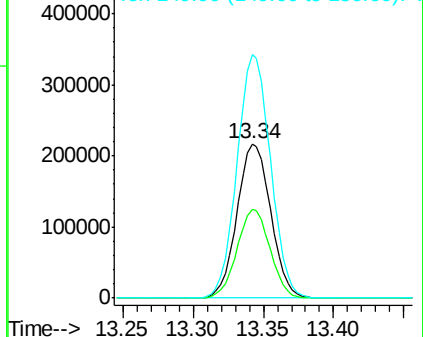
150 156.8 0.0 348.2

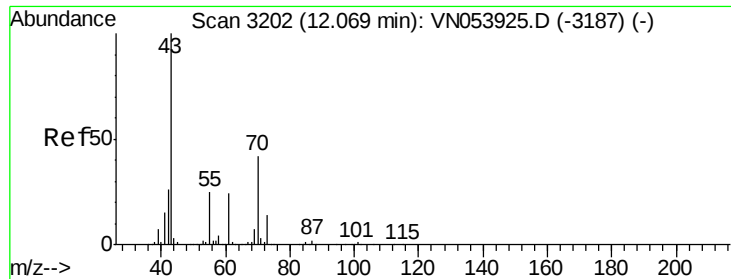


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.647 ug/l

RT: 11.88 min Scan# 3143

Delta R.T. -0.19 min

Lab File: VN053963.D

Acq: 26 Feb 2019 18:51

Instrument :

MSVOA_N

ClientSampleId :

PB117375ZHE#06

Tot Ion: 43 Resp: 19680

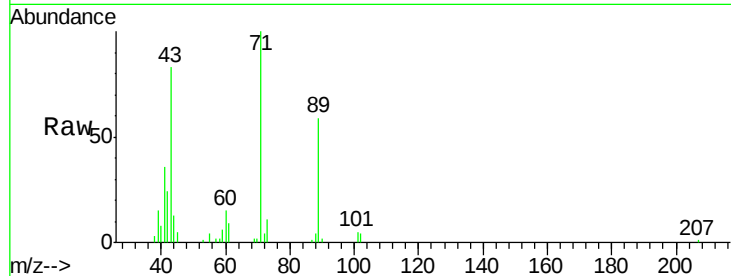
Ion Ratio Lower Upper

43 100

70 2.1 37.4 56.2#

55 5.0 21.4 32.0#

61 9.6 20.9 31.3#

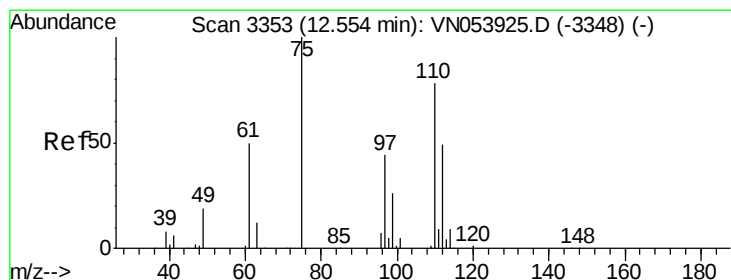
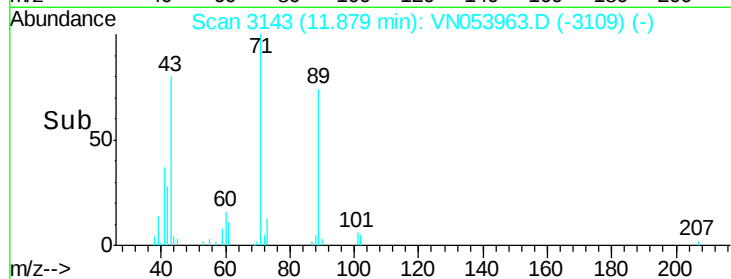
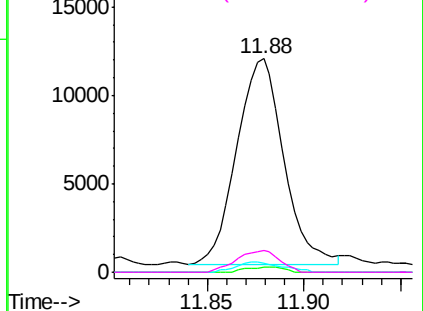


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 37.277 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053963.D

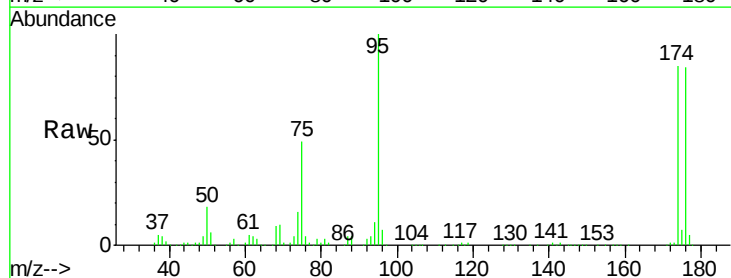
Acq: 26 Feb 2019 18:51

Tgt Ion: 75 Resp: 217900

Ion Ratio Lower Upper

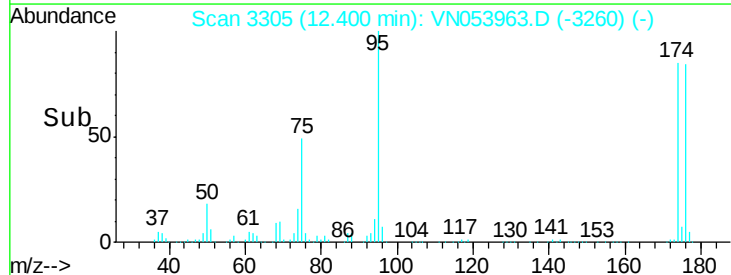
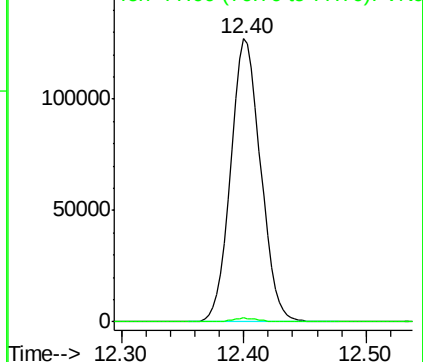
75 100

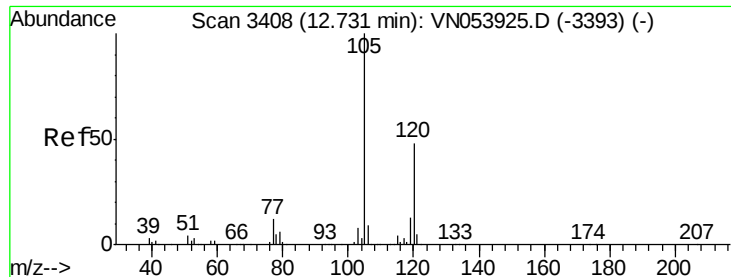
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.242 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053963.D

Acq: 26 Feb 2019 18:51

Instrument :

MSVOA_N

ClientSampleId :

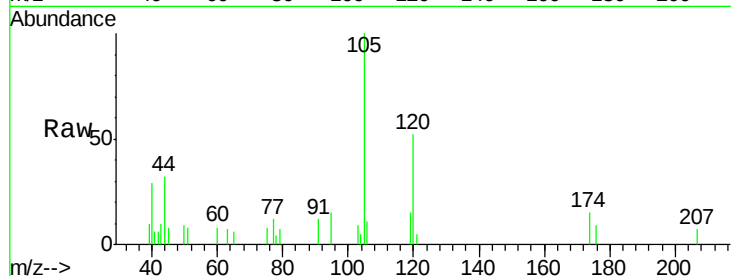
PB117375ZHE#06

Tot Ion:105 Resp: 5622

Ion Ratio Lower Upper

105 100

120 54.1 25.1 75.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.73

3000

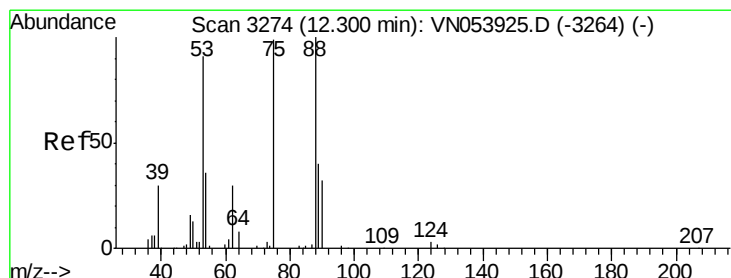
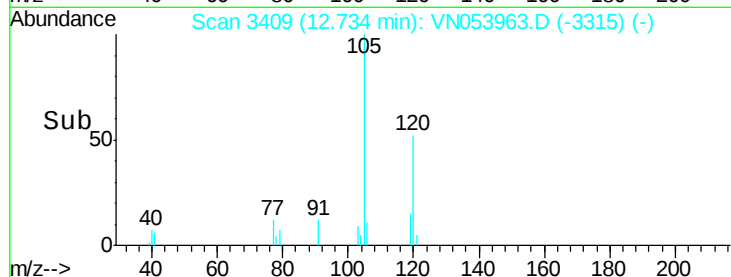
2000

1000

0

Time-->

12.70 12.75



#81

trans-1,4-Dichloro-2-butene

Concen: 117.817 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053963.D

Acq: 26 Feb 2019 18:51

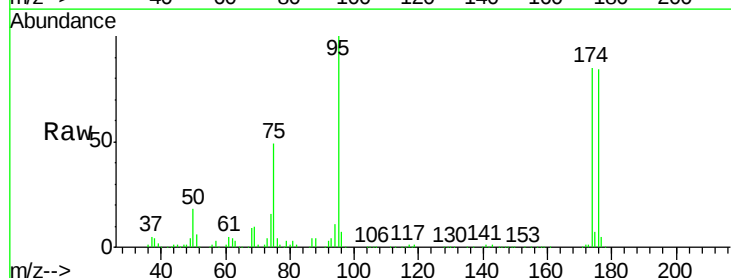
Tgt Ion: 75 Resp: 217900

Ion Ratio Lower Upper

75 100

53 0.1 68.6 102.8#

89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.40

150000

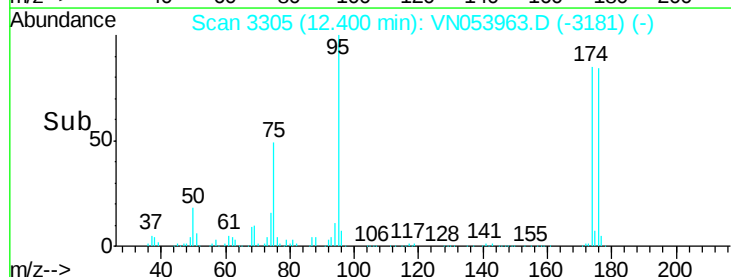
100000

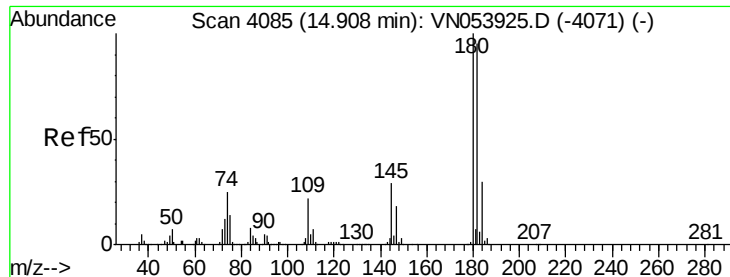
50000

0

Time-->

12.30 12.40 12.50

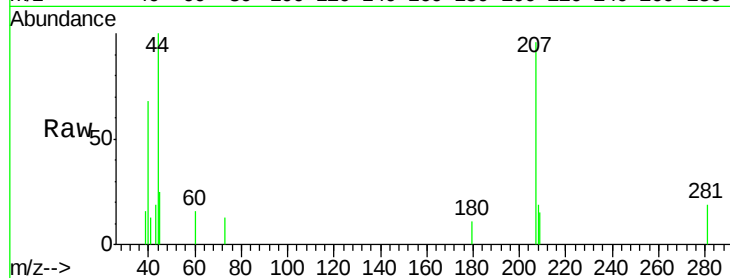




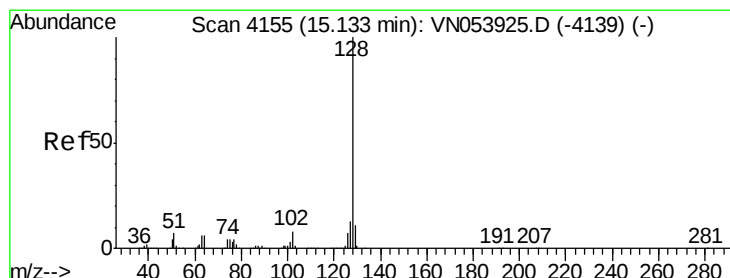
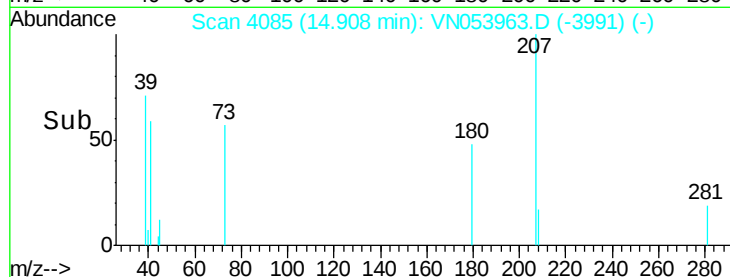
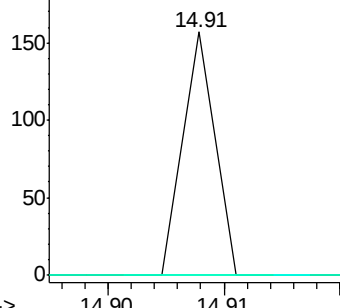
#93
 1,2,4-Trichlorobenzene
 Concen: 2.227 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053963.D
 Acq: 26 Feb 2019 18:51

Instrument :
 MSVOA_N
 ClientSampleId :
 PB117375ZHE#06

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.6	145.9#
145	0.0	13.8	41.3#

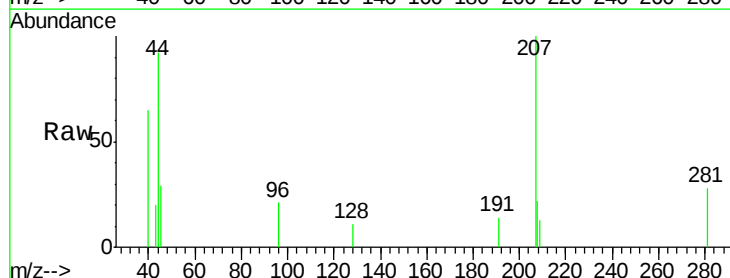


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 3.214 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN053963.D
 Acq: 26 Feb 2019 18:51

Tgt 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

