

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022719\
 Data File : VN053990.D
 Acq On : 28 Feb 2019 1:05
 Operator : JC/SP
 Sample : K1650-19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 28 07:24:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 28 04:05:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	587948	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1069300	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1036682	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	398394	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	383588	55.66	ug/l	0.00
Spiked Amount						
			Recovery	=	111.32%	
35) Dibromofluoromethane	7.59	113	342297	49.50	ug/l	0.00
Spiked Amount						
			Recovery	=	99.00%	
50) Toluene-d8	10.09	98	1336264	51.91	ug/l	0.00
Spiked Amount						
			Recovery	=	103.82%	
62) 4-Bromofluorobenzene	12.40	95	461358	53.80	ug/l	0.00
Spiked Amount						
			Recovery	=	107.60%	

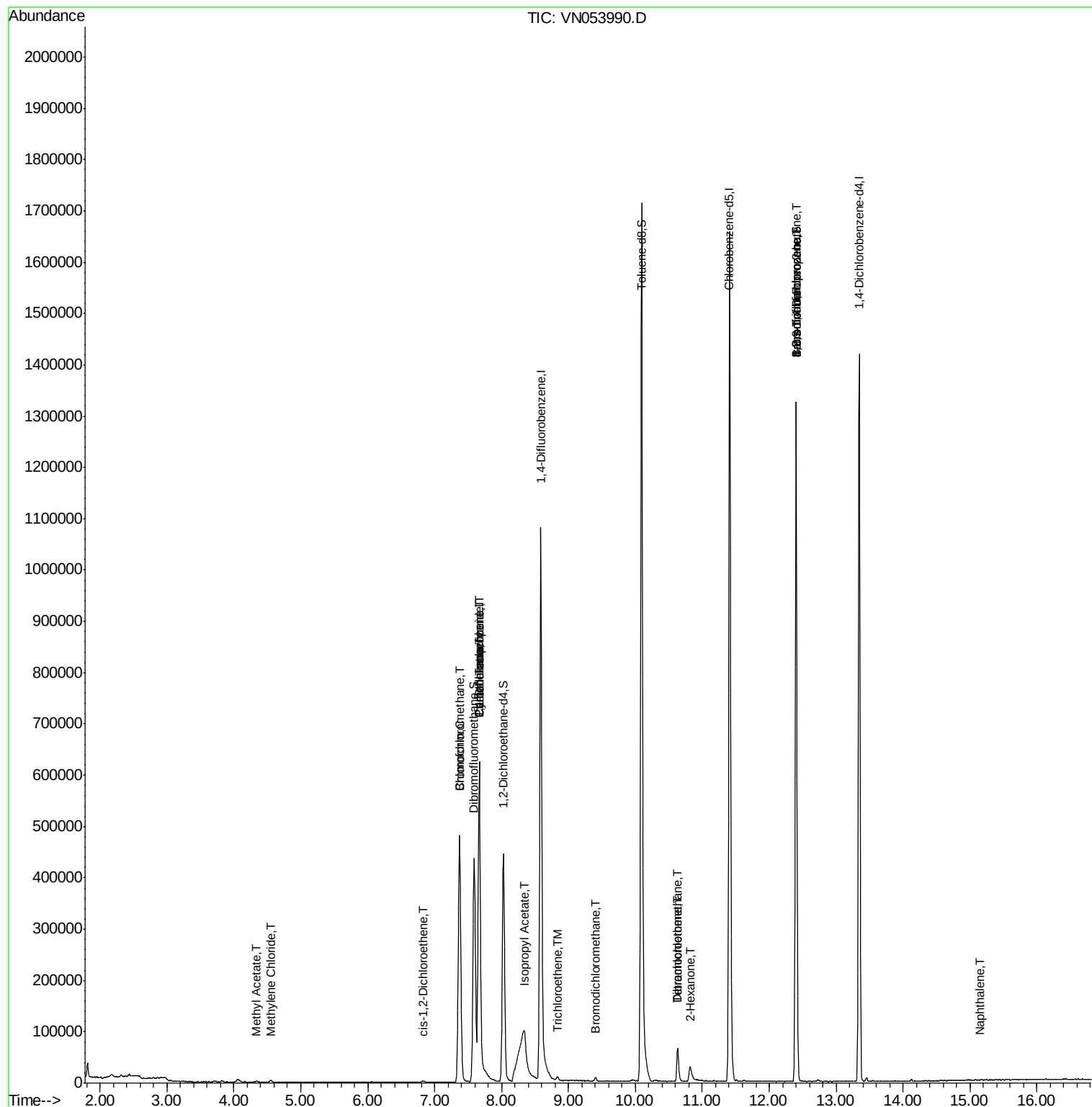
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	5586	Below Cal	#	81
18) Methyl Acetate	4.33	43	1648	0.342	ug/l #	76
20) Methylene Chloride	4.56	84	2411	0.353	ug/l #	94
27) cis-1,2-Dichloroethene	6.82	96	1619	0.232	ug/l	43
28) Bromochloromethane	7.37	49	40304	7.311	ug/l #	6
30) Chloroform	7.37	83	519992	44.529	ug/l	100
31) Cyclohexane	7.66	56	10491	0.546	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	40008	4.023	ug/l #	47
38) Carbon Tetrachloride	7.67	117	49695	4.805	ug/l #	16
43) Isopropyl Acetate	8.34	43	278782	23.254	ug/l #	59
44) Trichloroethene	8.83	130	2870	0.354	ug/l	92
47) Bromodichloromethane	9.41	83	5318	0.527	ug/l	94
59) 2-Hexanone	10.82	43	12547	3.131	ug/l #	51
60) Dibromochloromethane	10.63	129	16738	2.242	ug/l #	11
64) Tetrachloroethene	10.63	164	18229	2.077	ug/l	94
71) Bromoform	12.40	173	3791	0.691	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	222749	34.854	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	222749	110.160	ug/l #	15
95) Naphthalene	15.14	128	477	3.240	ug/l #	70

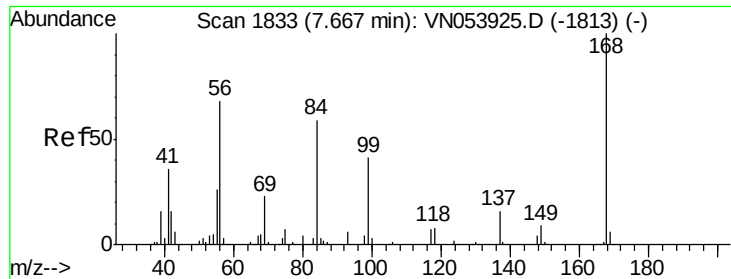
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN053990.D

Acq: 28 Feb 2019 1:05

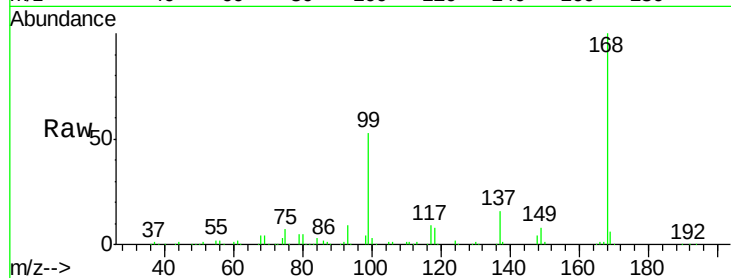
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 587948

Ion Ratio Lower Upper

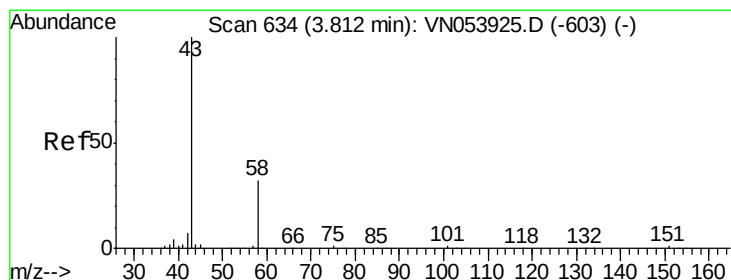
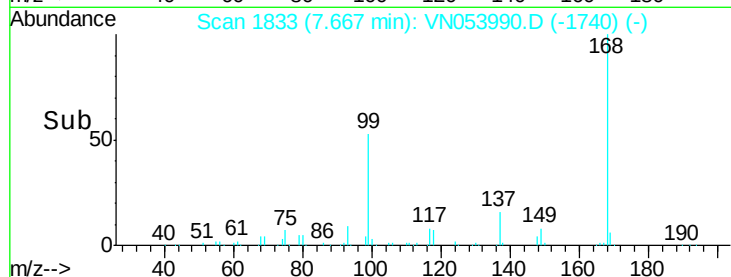
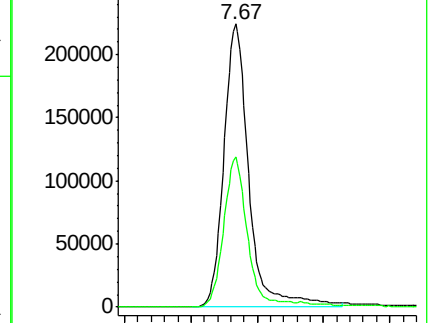
168 100

99 53.0 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): VN053990.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053990.D (-1740) (-)



#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053990.D

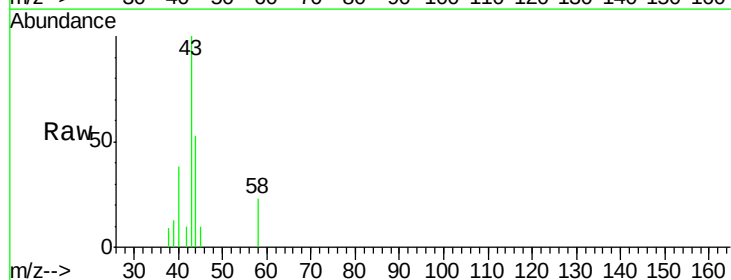
Acq: 28 Feb 2019 1:05

Tgt Ion: 43 Resp: 5586

Ion Ratio Lower Upper

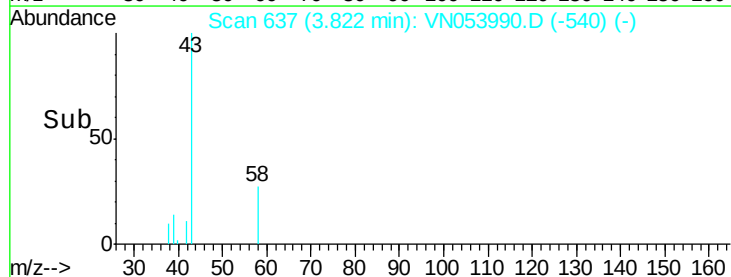
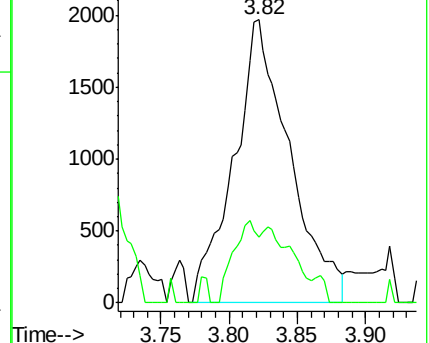
43 100

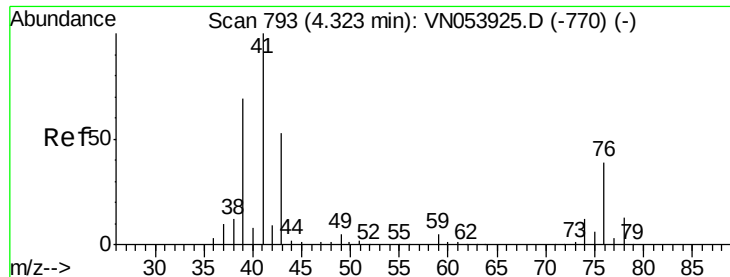
58 23.4 27.6 41.4#



Abundance Ion 43.00 (42.70 to 43.70): VN053990.D (-540) (-)

Ion 58.00 (57.70 to 58.70): VN053990.D (-540) (-)

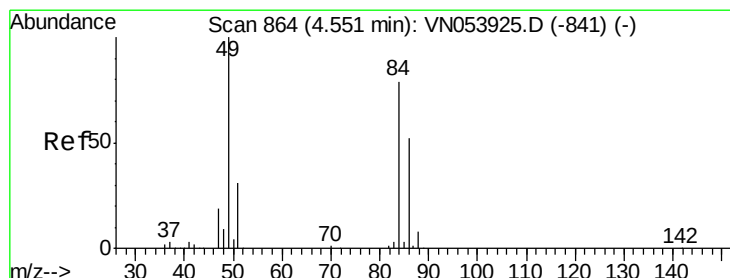
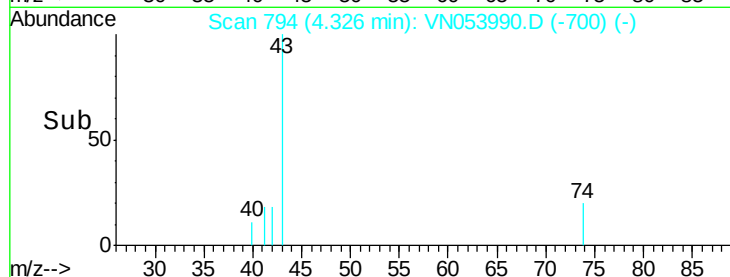
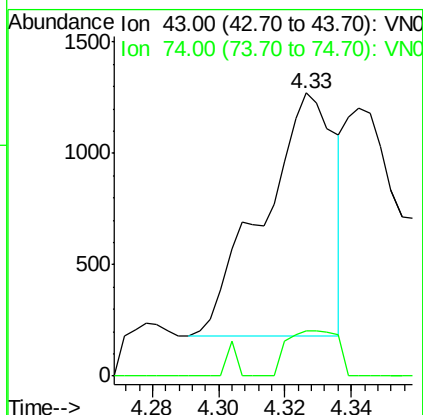
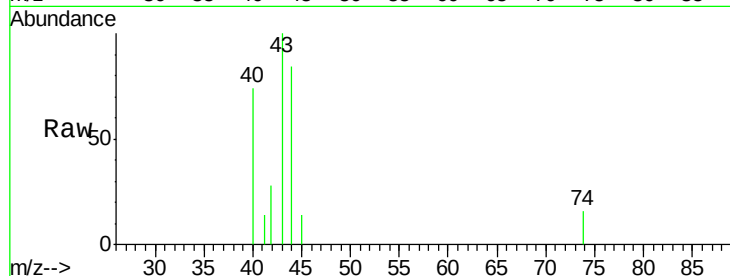




#18
Methyl Acetate
Concen: 0.342 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN053990.D
Acq: 28 Feb 2019 1:05

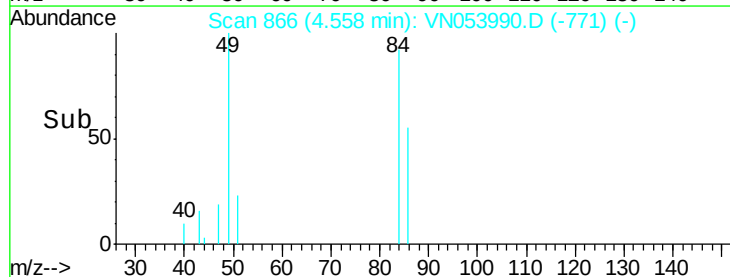
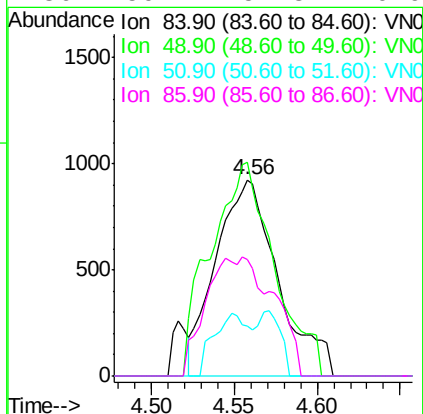
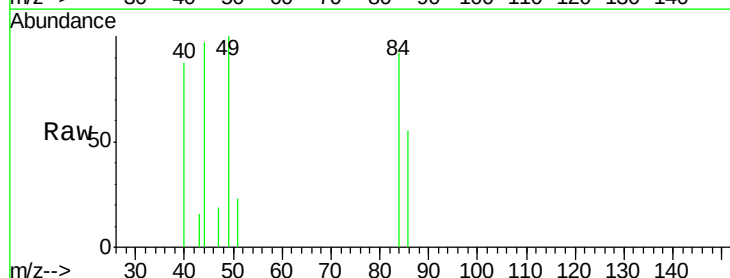
Instrument :
MSVOA_N
ClientSampled :

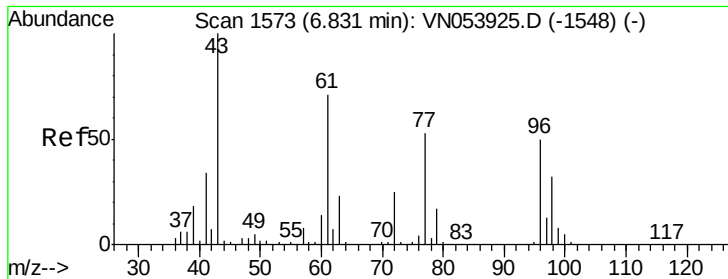
Tot Ion: 43 Resp: 1648
Ion Ratio Lower Upper
43 100
74 13.3 20.5 30.7#



#20
Methylene Chloride
Concen: 0.353 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN053990.D
Acq: 28 Feb 2019 1:05

Tgt Ion: 84 Resp: 2411
Ion Ratio Lower Upper
84 100
49 109.0 89.7 134.5
51 25.4 27.8 41.8#
86 59.7 51.3 76.9





#27

cis-1,2-Dichloroethene

Concen: 0.232 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.01 min

Lab File: VN053990.D

Acq: 28 Feb 2019 1:05

Instrument :
MSVOA_N
ClientSampled :

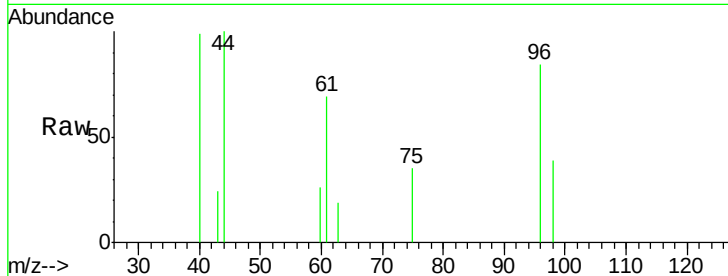
Tot Ion: 96 Resp: 1619

Ion Ratio Lower Upper

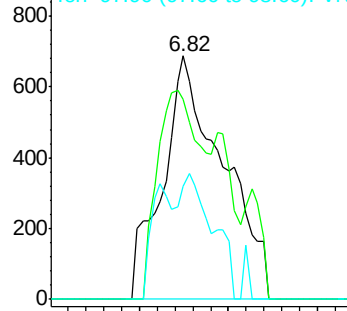
96 100

61 64.9 0.0 275.6

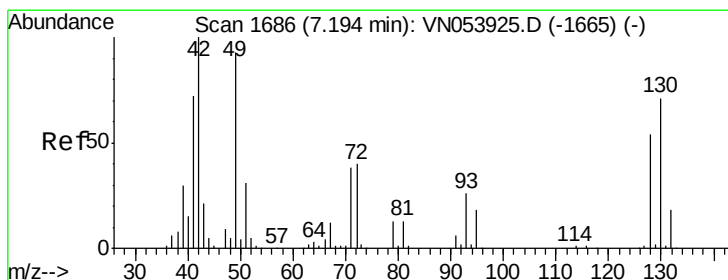
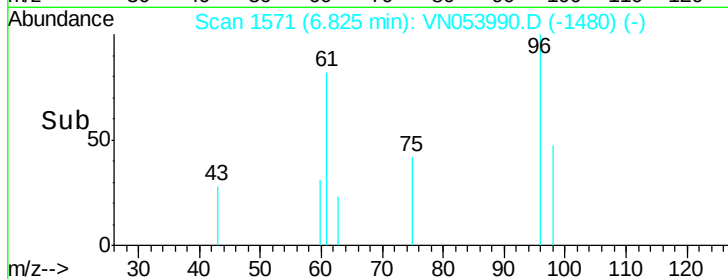
98 26.6 0.0 130.0



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



Time-->



#28

Bromochloromethane

Concen: 7.311 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. 0.18 min

Lab File: VN053990.D

Acq: 28 Feb 2019 1:05

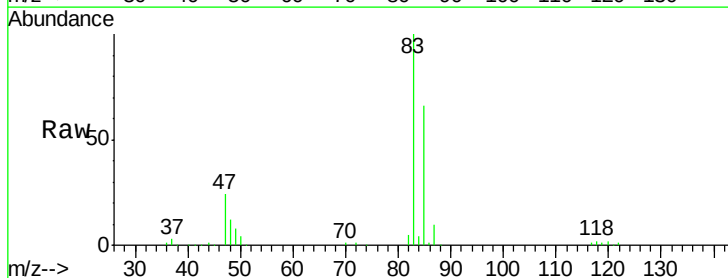
Tgt Ion: 49 Resp: 40304

Ion Ratio Lower Upper

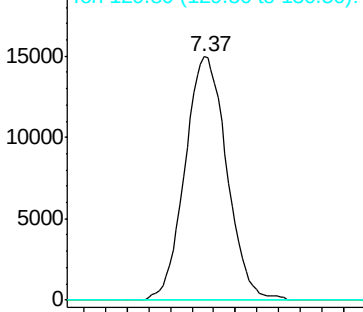
49 100

129 0.0 0.0 4.6

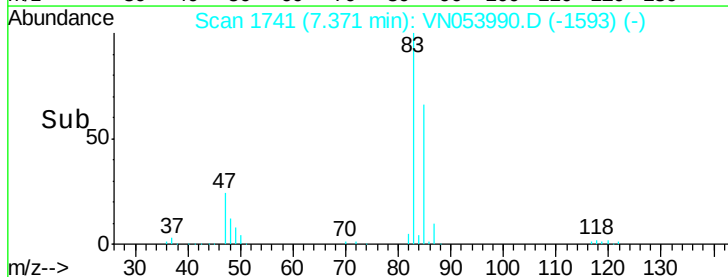
130 0.0 72.9 109.3#

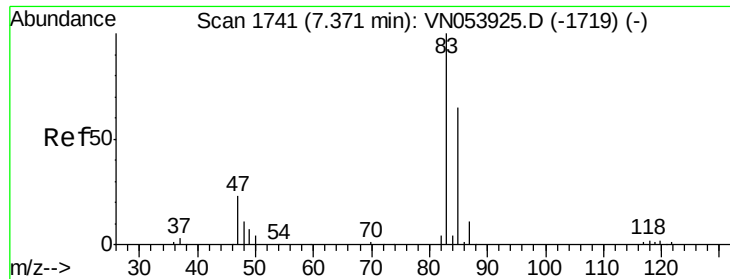


Abundance Ion 48.90 (48.60 to 49.60): VN0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V



Time-->

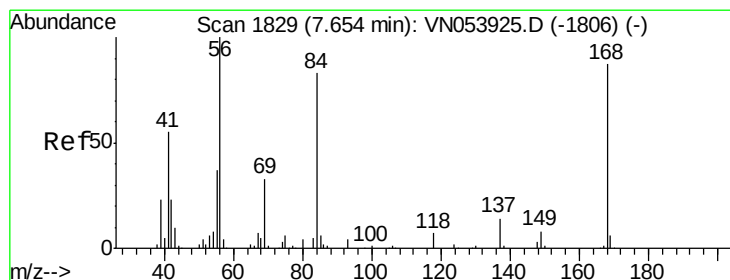
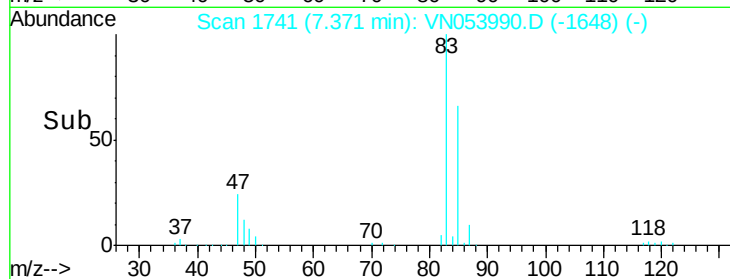
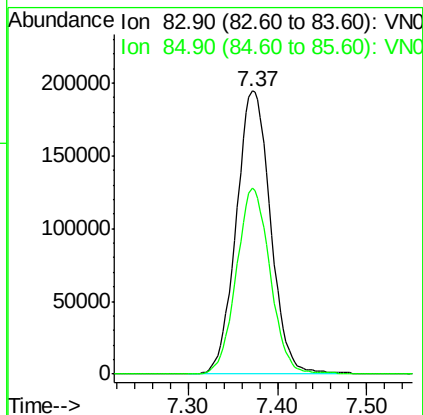
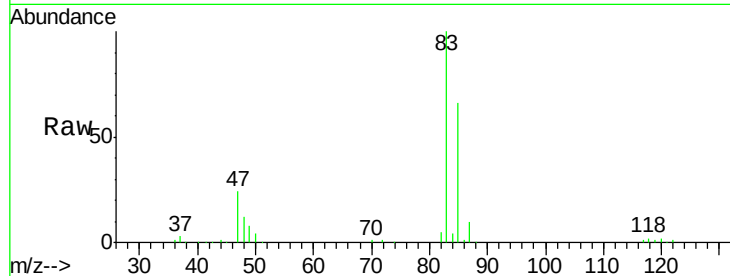




#30
Chloroform
Concen: 44.529 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN053990.D
Acq: 28 Feb 2019 1:05

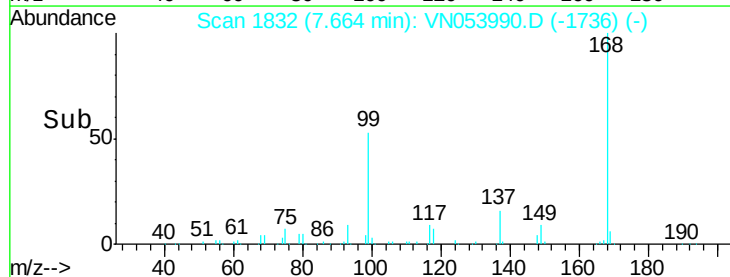
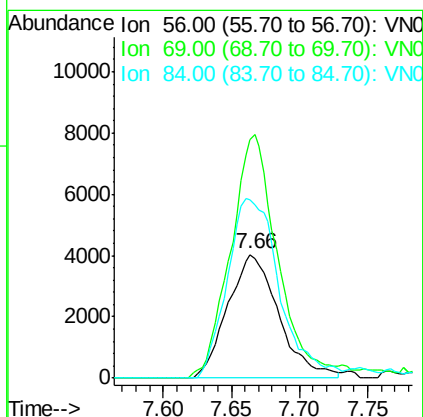
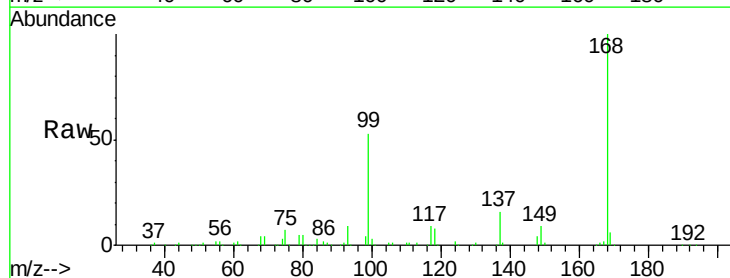
Instrument :
MSVOA_N
ClientSampleId :

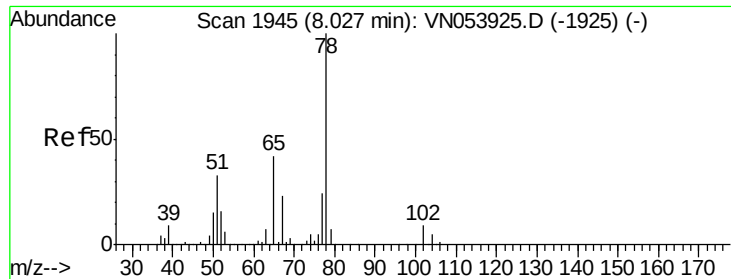
Tot Ion: 83 Resp: 51992
Ion Ratio Lower Upper
83 100
85 65.6 52.6 78.8



#31
Cyclohexane
Concen: 0.546 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN053990.D
Acq: 28 Feb 2019 1:05

Tgt Ion: 56 Resp: 10491
Ion Ratio Lower Upper
56 100
69 193.1 26.0 39.0#
84 144.8 69.1 103.7#

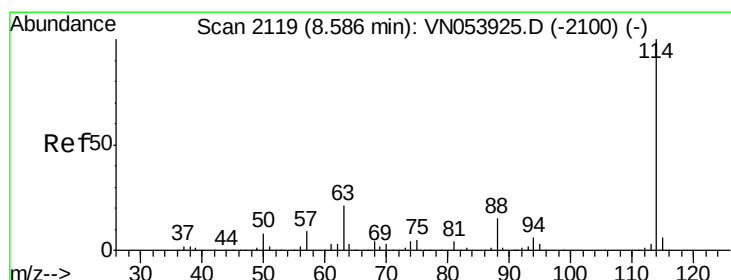
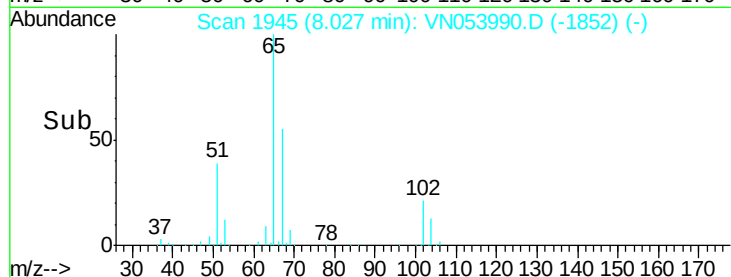
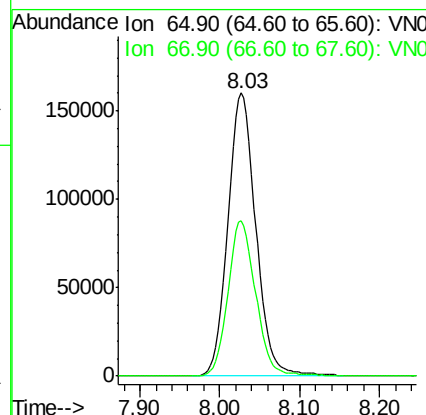
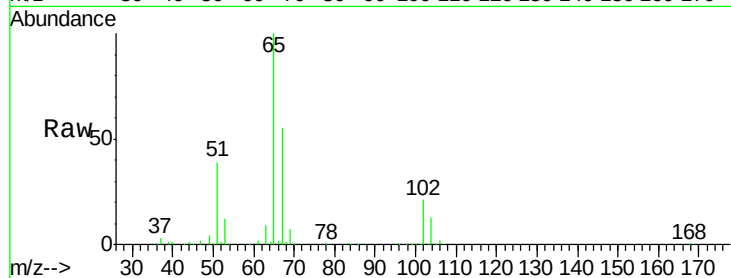




#33
 1,2-Dichloroethane-d4
 Concen: 55.656 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053990.D
 Acq: 28 Feb 2019 1:05

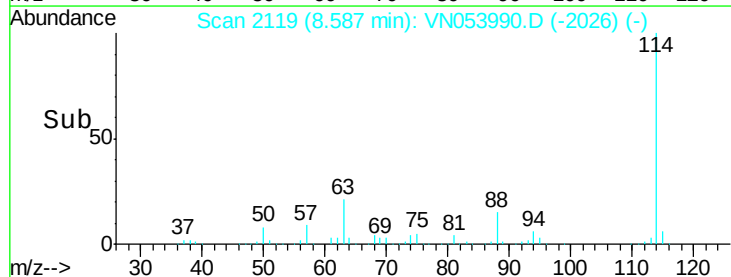
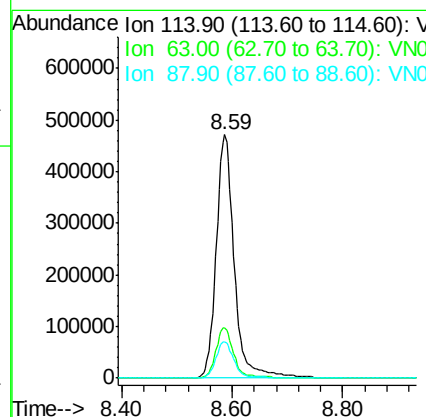
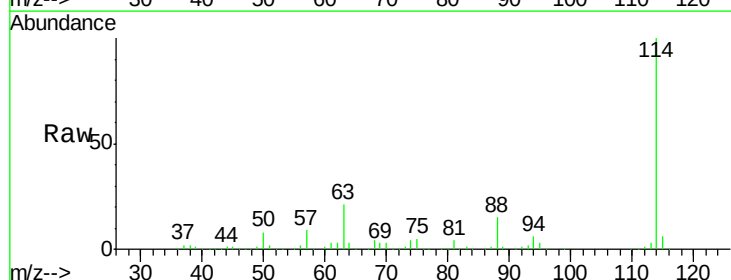
Instrument :
 MSVOA_N
 ClientSampled :

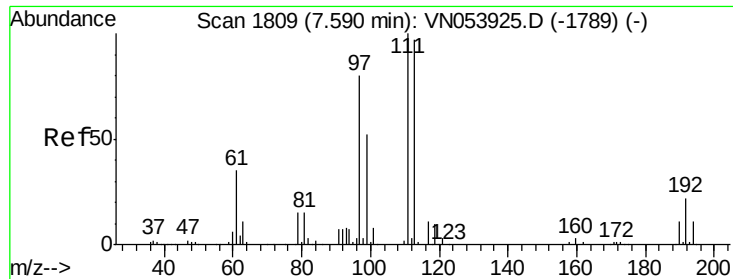
Tot Ion: 65 Resp: 383588
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 111.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053990.D
 Acq: 28 Feb 2019 1:05

Tgt Ion: 114 Resp: 1069300
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 37.4
 88 15.1 0.0 30.4

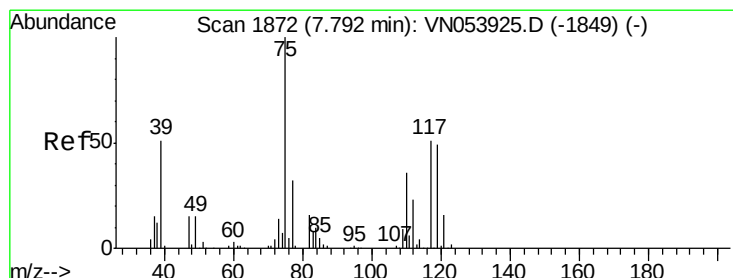
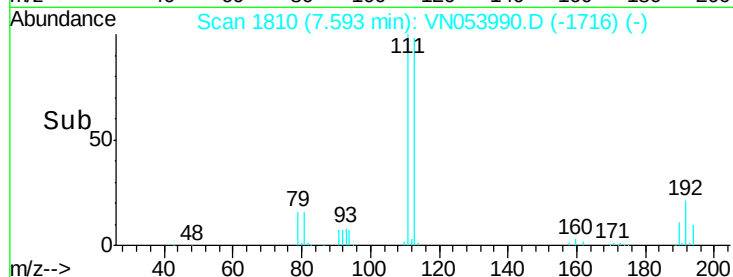
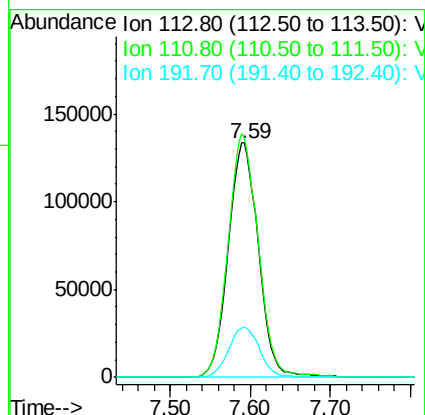
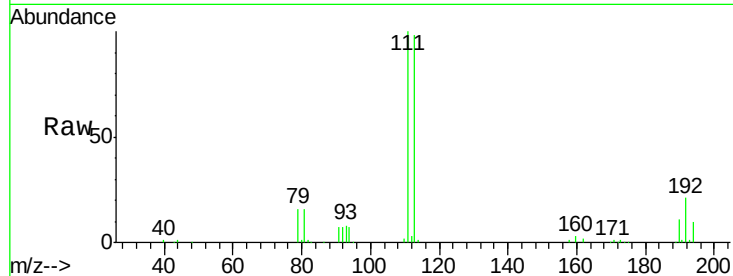




#35
 Dibromofluoromethane
 Concen: 49.503 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053990.D
 Acq: 28 Feb 2019 1:05

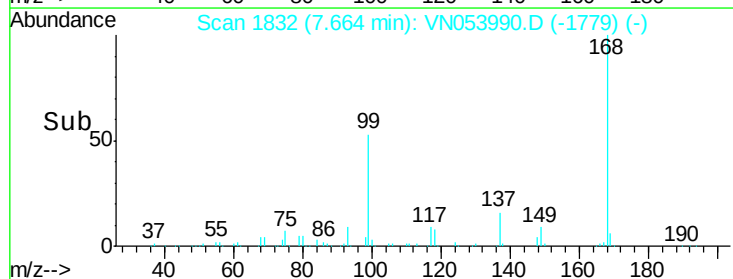
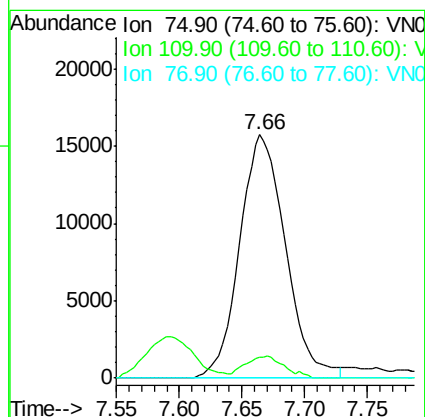
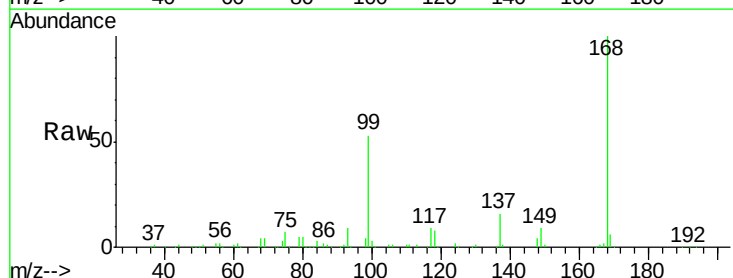
Instrument :
 MSVOA_N
 ClientSampleId :

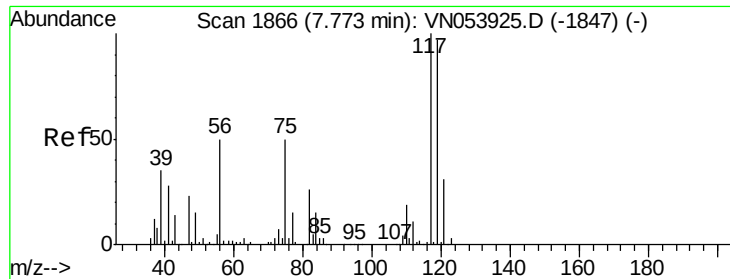
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.1	81.1	121.7
192	21.8	18.8	28.2



#36
 1,1-Dichloropropene
 Concen: 4.023 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053990.D
 Acq: 28 Feb 2019 1:05

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.9	19.0	57.0#
77	0.0	25.4	38.0#

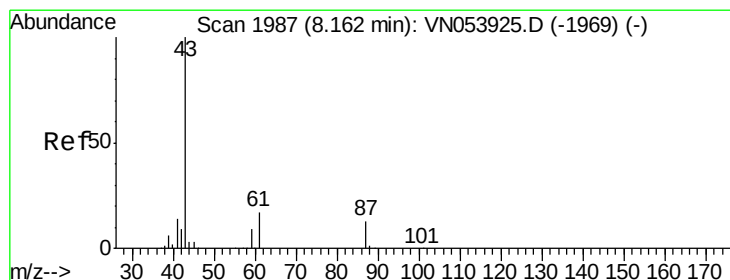
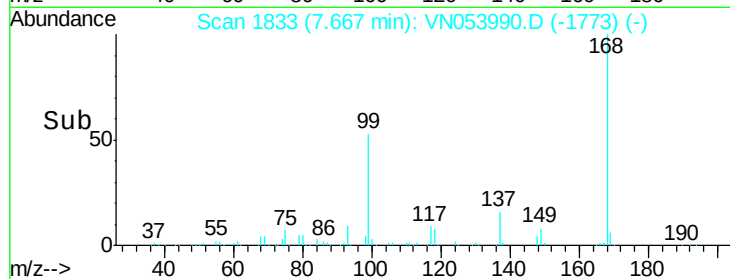
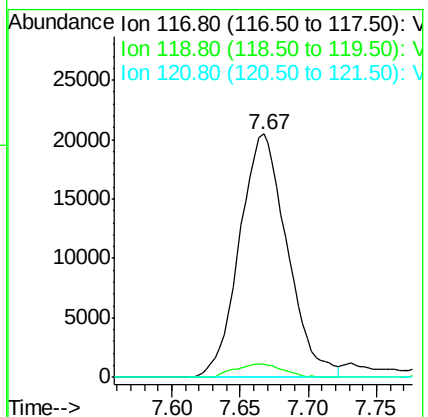
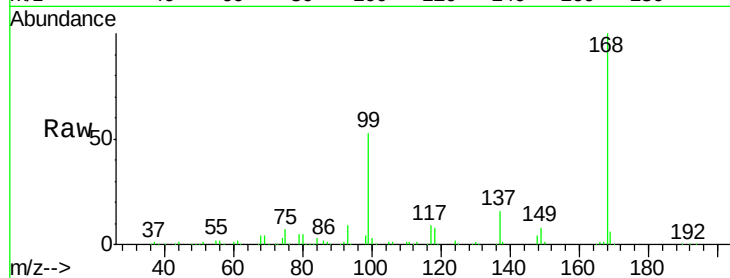




#38
Carbon Tetrachloride
Concen: 4.805 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN053990.D
Acq: 28 Feb 2019 1:05

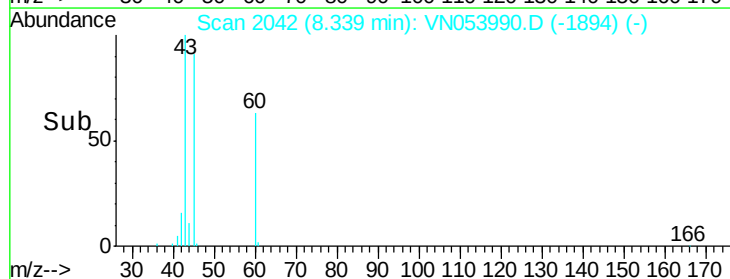
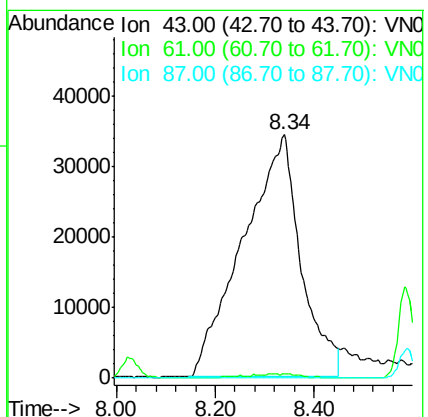
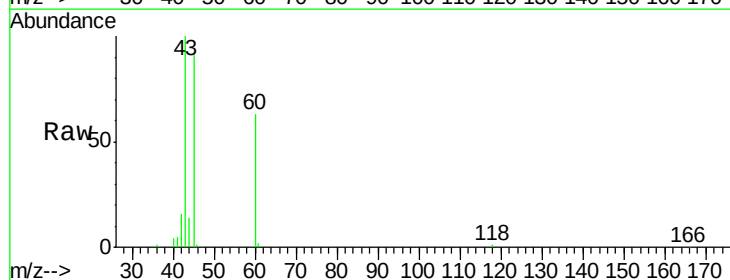
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MSVOA_N
ClientSampled :

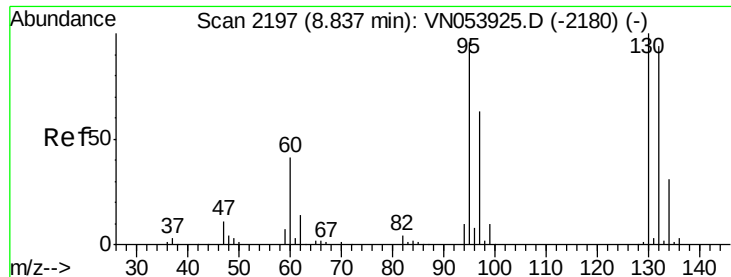
Tot Ion:117 Resp: 49695
Ion Ratio Lower Upper
117 100
119 5.2 76.2 114.2#
121 0.0 24.6 36.8#



#43
Isopropyl Acetate
Concen: 23.254 ug/l
RT: 8.34 min Scan# 2042
Delta R.T. 0.18 min
Lab File: VN053990.D
Acq: 28 Feb 2019 1:05

Tgt Ion: 43 Resp: 278782
Ion Ratio Lower Upper
43 100
61 0.5 17.4 26.0#
87 0.0 11.5 17.3#





#44

Trichloroethene

Concen: 0.354 ug/l

RT: 8.83 min Scan# 2195

Delta R.T. -0.01 min

Lab File: VN053990.D

Acq: 28 Feb 2019 1:05

Instrument :

MSVOA_N

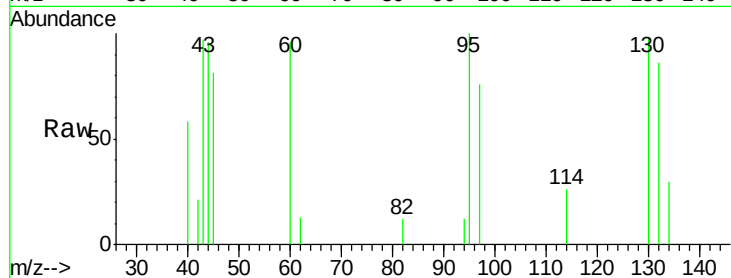
ClientSampleId :

Tot Ion:130 Resp: 2870

Ion Ratio Lower Upper

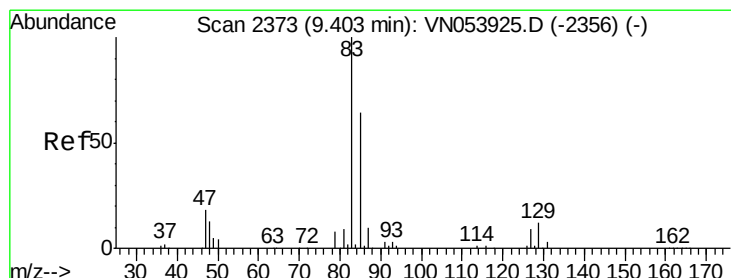
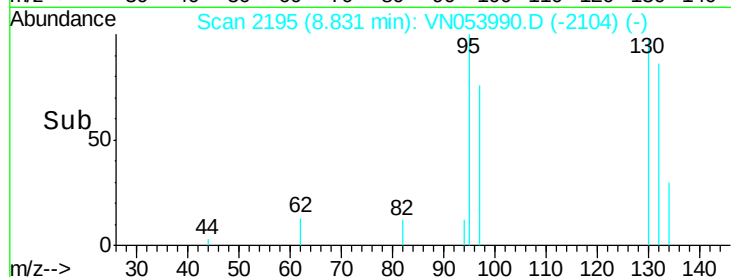
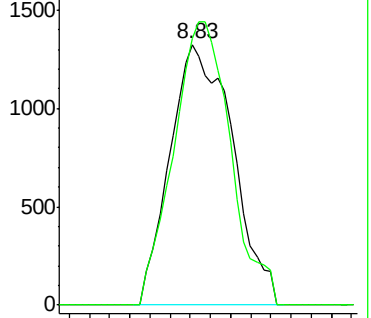
130 100

95 102.3 0.0 190.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#47

Bromodichloromethane

Concen: 0.527 ug/l

RT: 9.41 min Scan# 2374

Delta R.T. 0.00 min

Lab File: VN053990.D

Acq: 28 Feb 2019 1:05

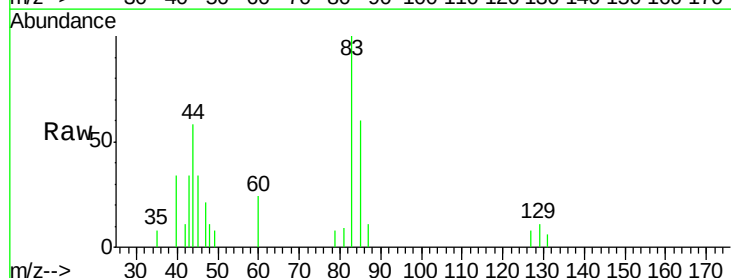
Tgt Ion: 83 Resp: 5318

Ion Ratio Lower Upper

83 100

85 60.1 51.8 77.6

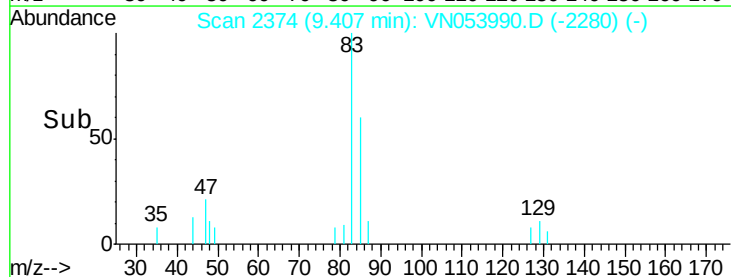
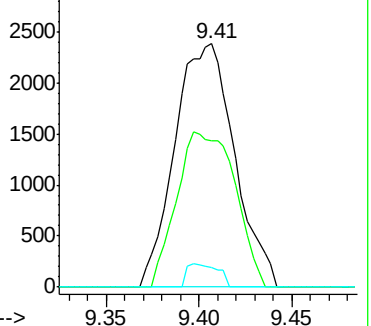
127 7.9 7.4 11.0

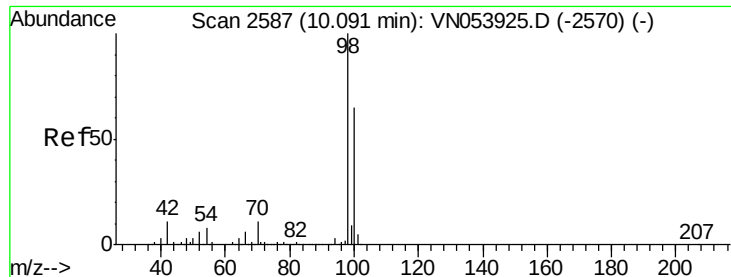


Abundance Ion 82.90 (82.60 to 83.60): VN

Ion 84.90 (84.60 to 85.60): VN

Ion 126.80 (126.50 to 127.50): V





#50

Toluene-d8

Concen: 51.913 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053990.D

Acq: 28 Feb 2019 1:05

Instrument :

MSVOA_N

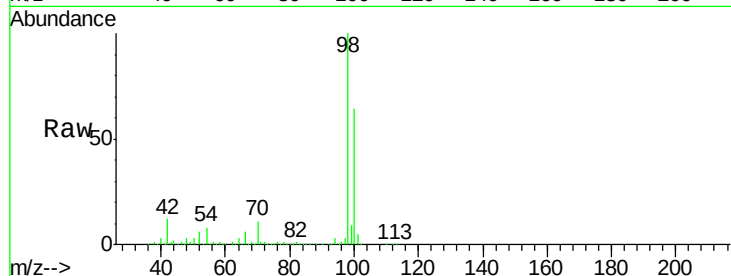
ClientSampleId :

Tot Ion: 98 Resp: 1336264

Ion Ratio Lower Upper

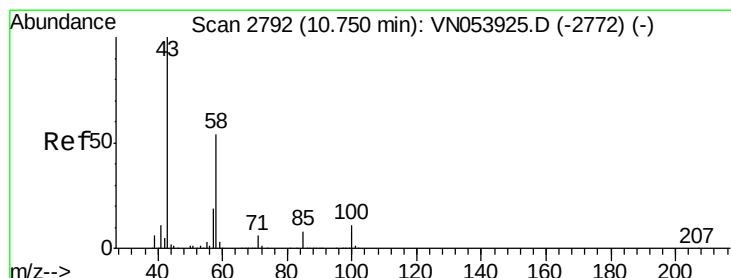
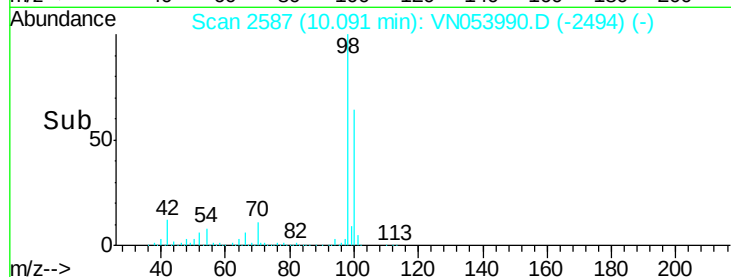
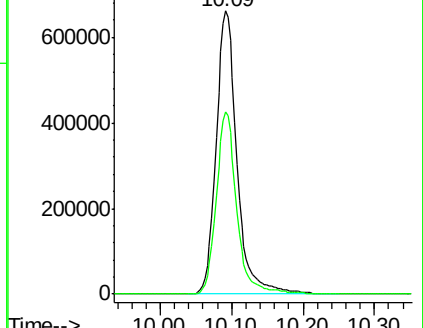
98 100

100 63.6 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN053925.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN053925.D (-2570) (-)



#59

2-Hexanone

Concen: 3.131 ug/l

RT: 10.82 min Scan# 2813

Delta R.T. 0.07 min

Lab File: VN053990.D

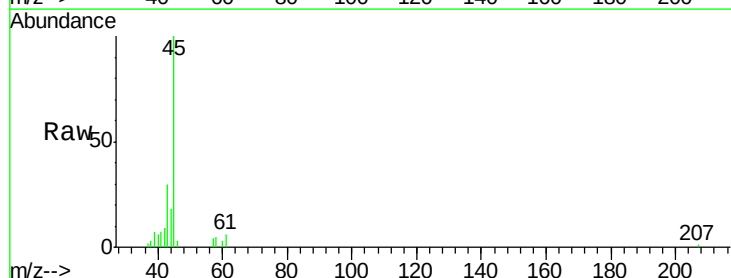
Acq: 28 Feb 2019 1:05

Tgt Ion: 43 Resp: 12547

Ion Ratio Lower Upper

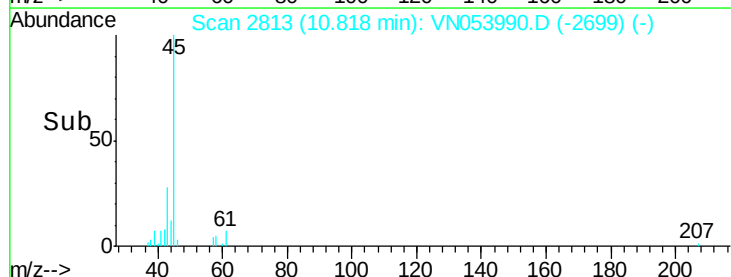
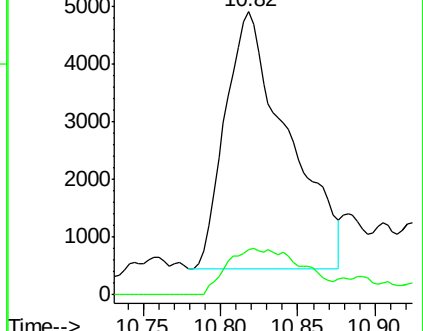
43 100

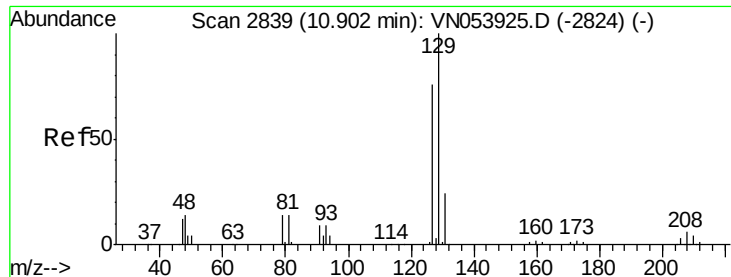
58 21.9 29.1 87.4#



Abundance Ion 43.00 (42.70 to 43.70): VN053925.D (-2772) (-)

Ion 58.00 (57.70 to 58.70): VN053925.D (-2772) (-)

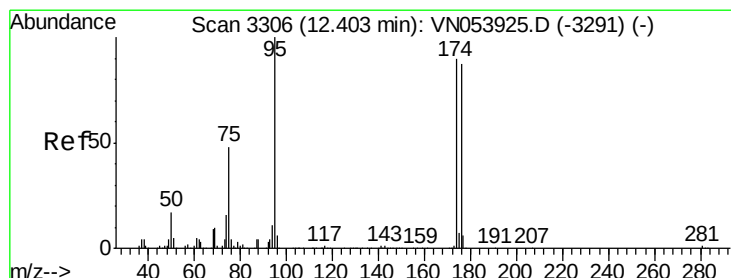
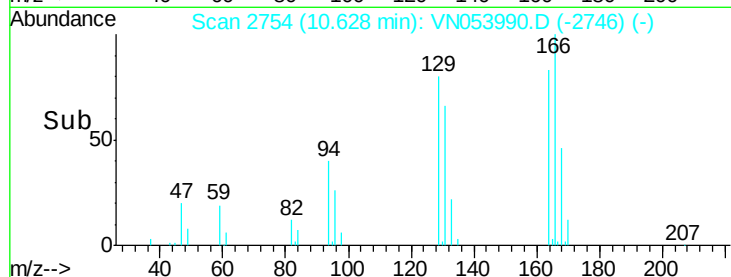
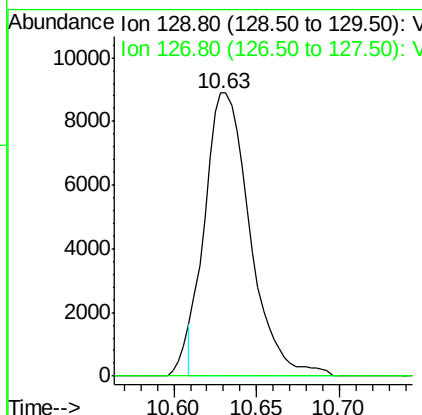
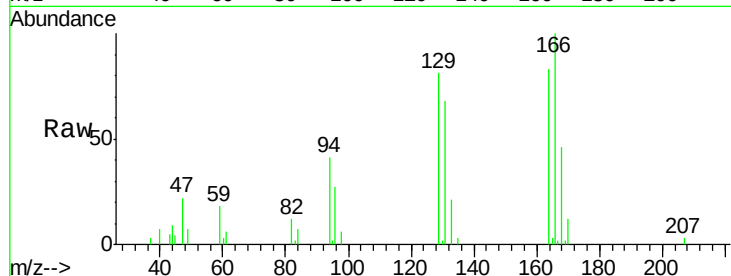




#60
 Dibromochloromethane
 Concen: 2.242 ug/l
 RT: 10.63 min Scan# 2754
 Delta R.T. -0.27 min
 Lab File: VN053990.D
 Acq: 28 Feb 2019 1:05

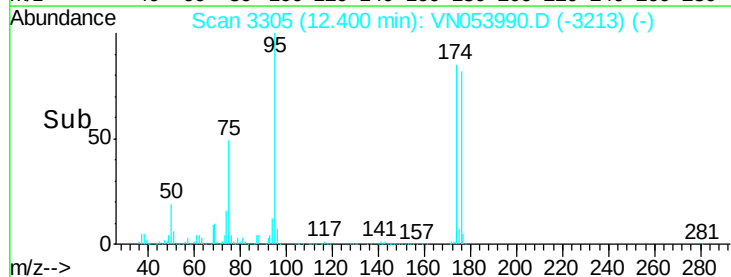
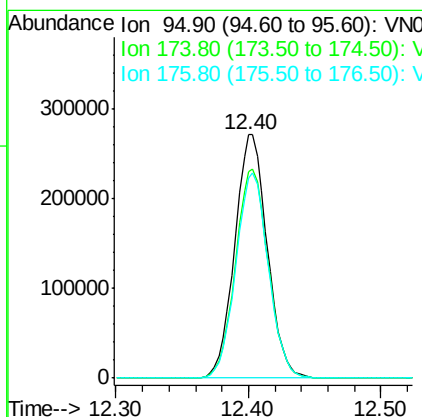
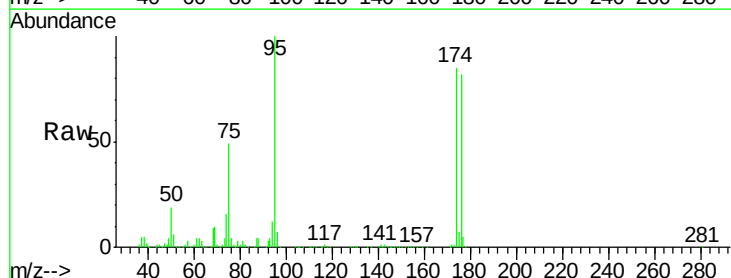
Instrument :
 MSVOA_N
 ClientSampled :

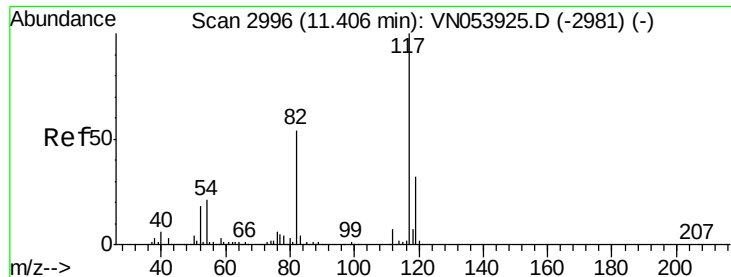
Tot Ion:129 Resp: 16738
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.8 116.3#



#62
 4-Bromofluorobenzene
 Concen: 53.797 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN053990.D
 Acq: 28 Feb 2019 1:05

Tgt Ion: 95 Resp: 461358
 Ion Ratio Lower Upper
 95 100
 174 86.6 0.0 188.8
 176 84.2 0.0 182.6

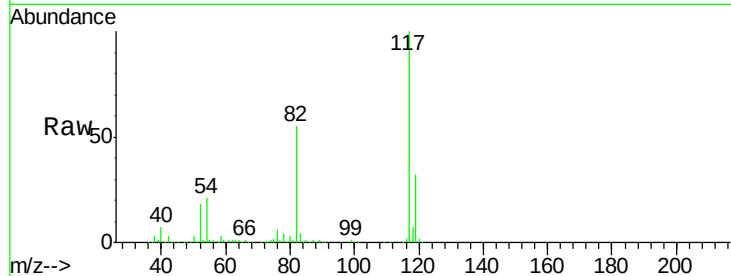




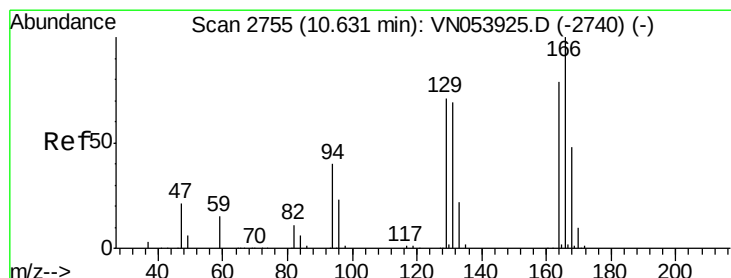
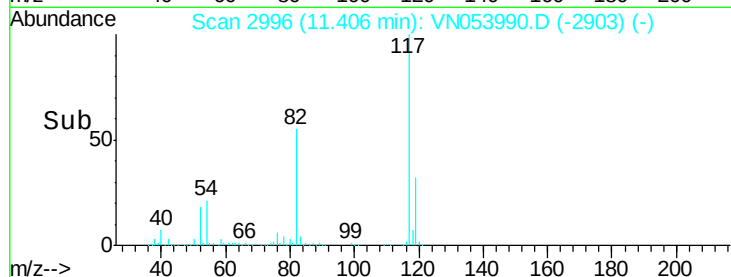
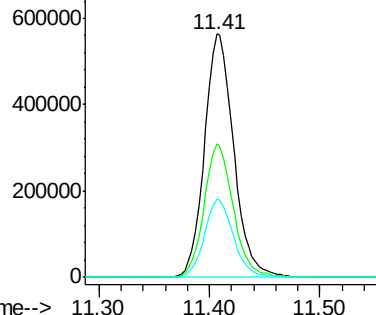
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053990.D
Acq: 28 Feb 2019 1:05

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 1036682
Ion Ratio Lower Upper
117 100
82 54.8 41.4 62.2
119 32.0 25.3 37.9

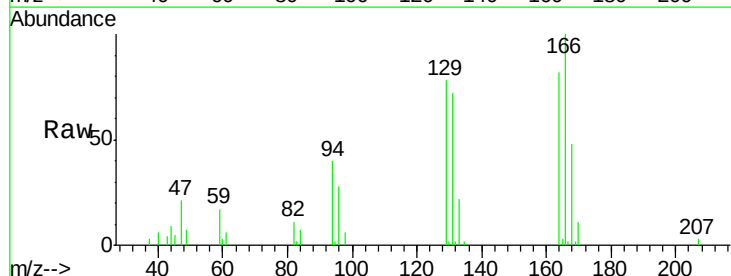


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

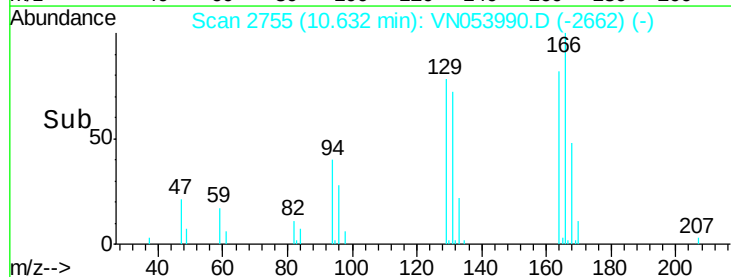
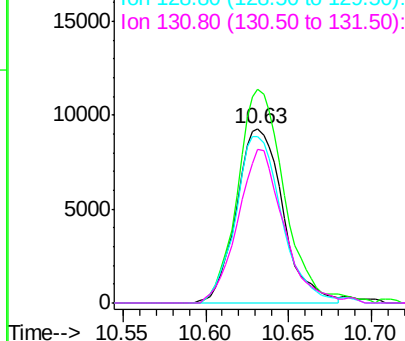


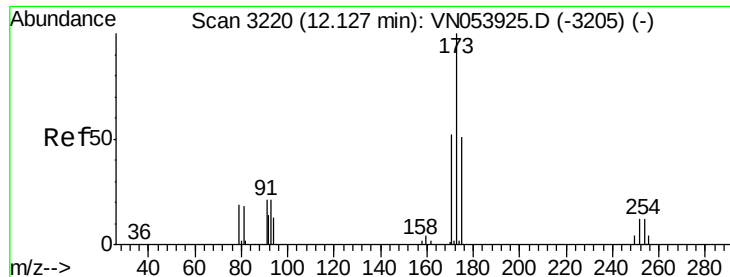
#64
Tetrachloroethene
Concen: 2.077 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053990.D
Acq: 28 Feb 2019 1:05

Tgt Ion:164 Resp: 18229
Ion Ratio Lower Upper
164 100
166 122.3 102.6 153.8
129 95.6 69.4 104.0
131 87.8 68.1 102.1



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#71

Bromoform

Concen: 0.691 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN053990.D

Acq: 28 Feb 2019 1:05

Instrument :

MSVOA_N

ClientSampled :

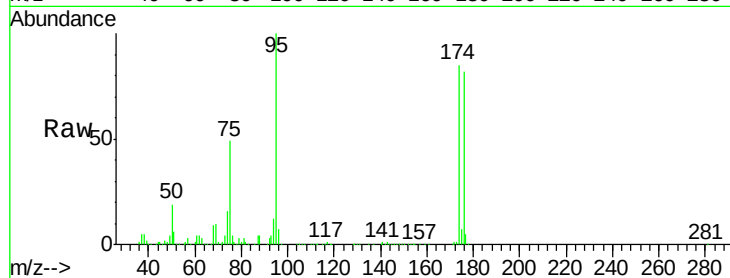
Tot Ion:173 Resp: 3791

Ion Ratio Lower Upper

173 100

175 691.4 24.3 72.8#

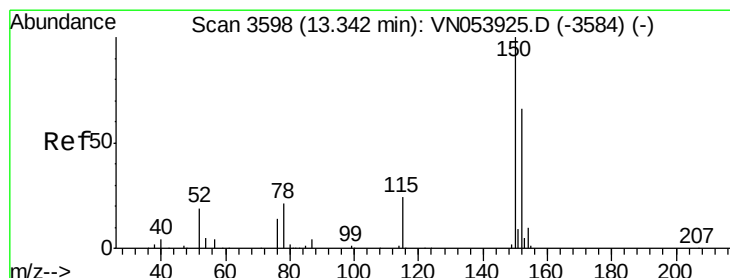
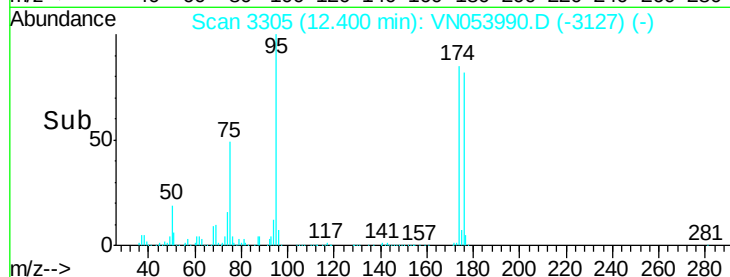
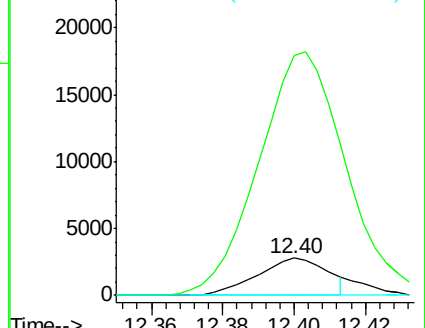
254 0.0 0.2 0.2#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053990.D

Acq: 28 Feb 2019 1:05

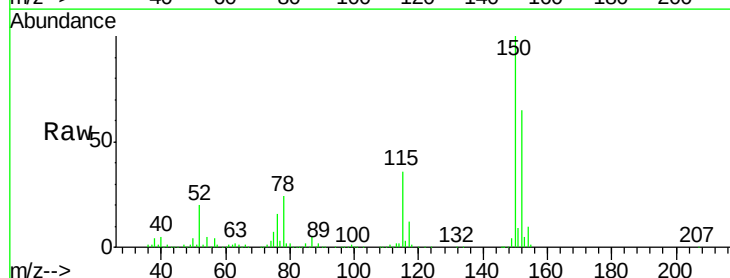
Tgt Ion:152 Resp: 398394

Ion Ratio Lower Upper

152 100

115 56.5 27.2 81.6

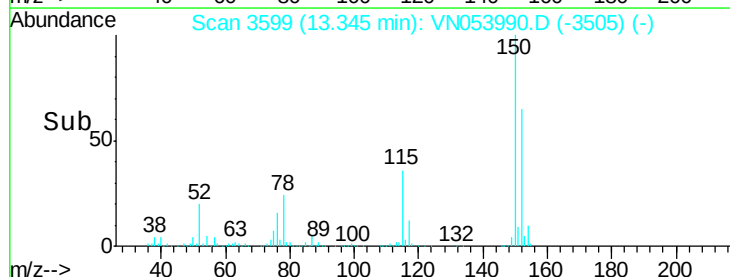
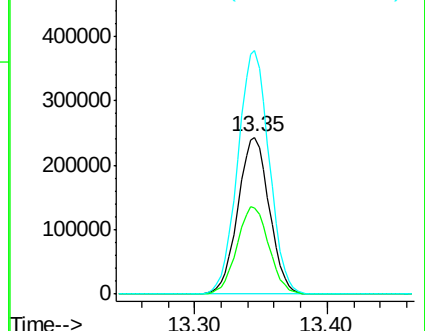
150 156.0 0.0 348.2

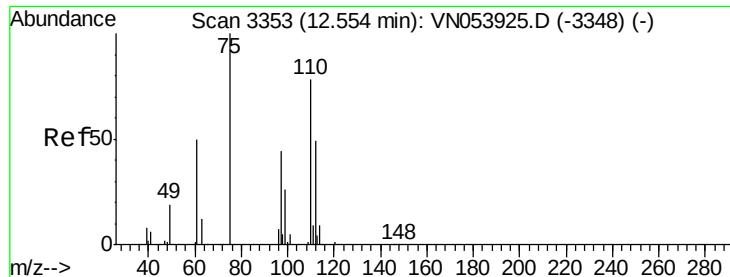


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 34.854 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053990.D

Acq: 28 Feb 2019 1:05

Instrument :

MSVOA_N

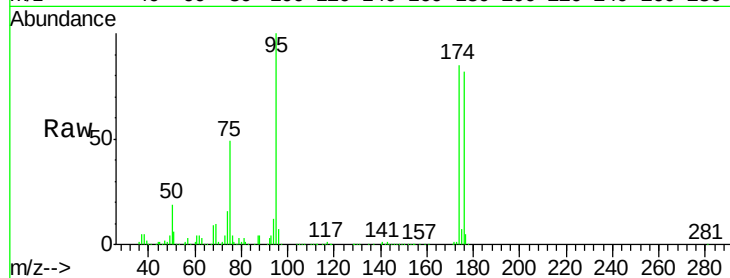
ClientSampleId :

Tot Ion: 75 Resp: 222749

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

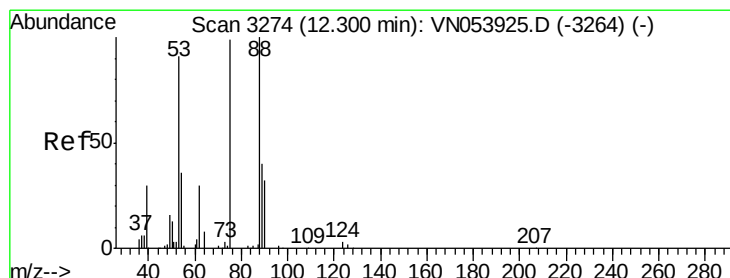
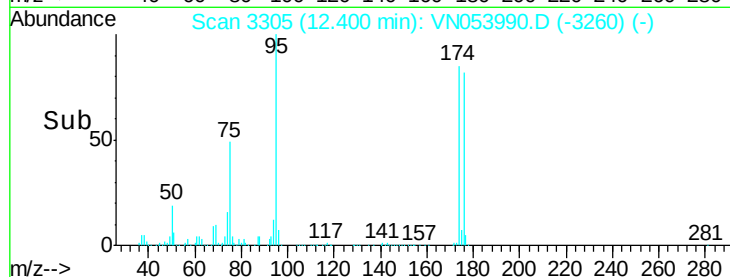
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 110.160 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053990.D

Acq: 28 Feb 2019 1:05

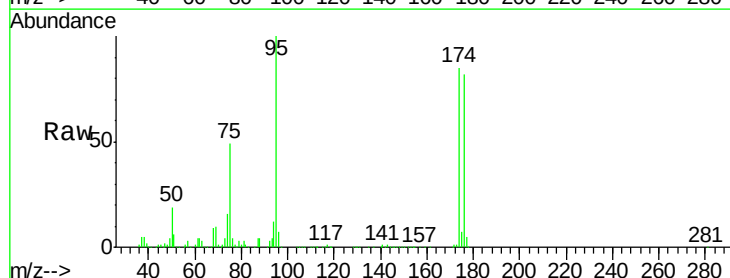
Tgt Ion: 75 Resp: 222749

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

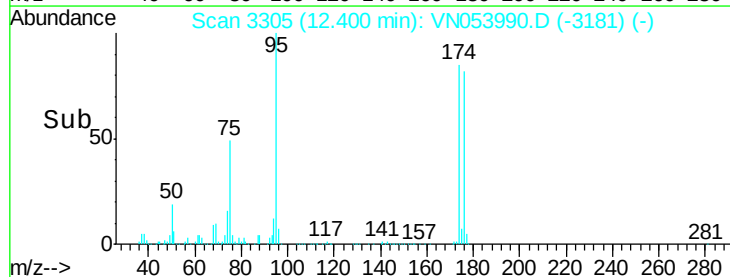
150000

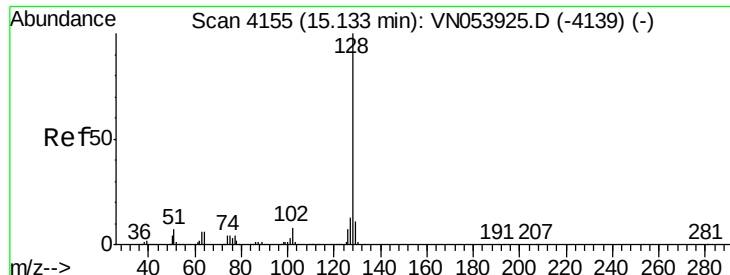
100000

50000

0

Time--> 12.30 12.40 12.50





#95

Naphthalene

Concen: 3.240 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

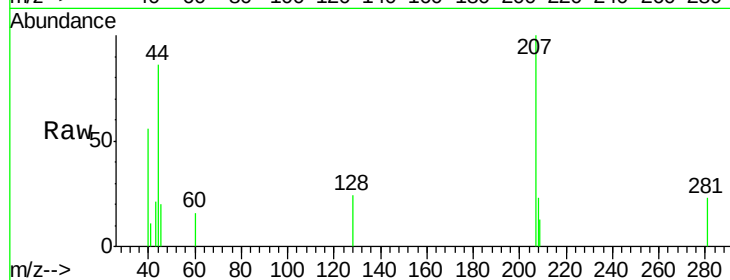
Lab File: VN053990.D

Acq: 28 Feb 2019 1:05

Instrument :

MSVOA_N

ClientSampleId :



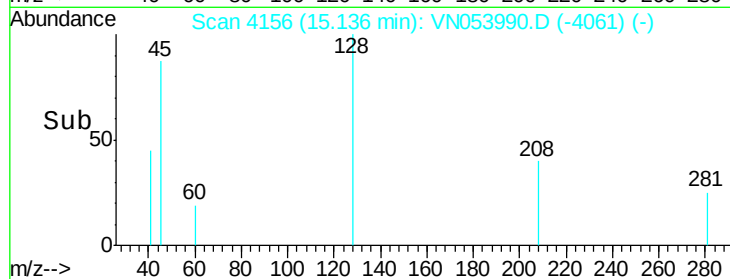
Tot Ion:128 Resp: 477

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

