

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058199.D
 Acq On : 19 Sep 2019 12:44
 Operator : JC/SP
 Sample : K4896-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 20 01:49:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	519237	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	849912	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	719855	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	297951	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	370112	51.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.36%	
35) Dibromofluoromethane	7.57	113	259389	50.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.40%	
50) Toluene-d8	10.08	98	1046556	51.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.98%	
62) 4-Bromofluorobenzene	12.40	95	330688	44.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.44%	

Target Compounds

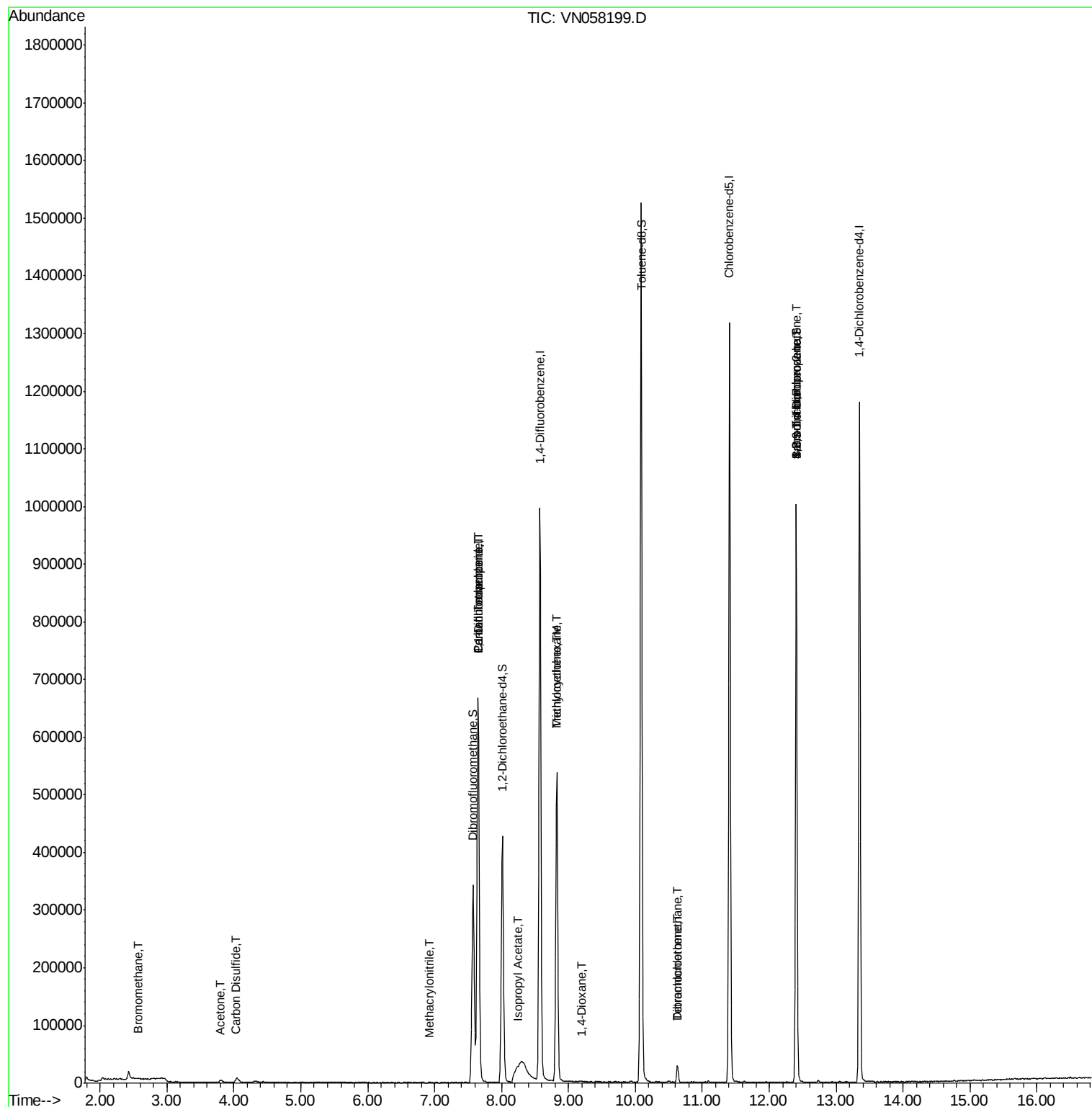
					Qvalue
3) Chloromethane	2.04	50	2111	Below Cal	90
5) Bromomethane	2.56	94	103	0.776 ug/l	94
6) Chloroethane	2.75	64	61	Below Cal #	44
16) Acetone	3.79	43	2348	0.956 ug/l	95
17) Carbon Disulfide	4.02	76	60	0.284 ug/l #	74
31) Cyclohexane	7.65	56	12144	Below Cal #	11
36) 1,1-Dichloropropene	7.65	75	44572	7.272 ug/l #	51
38) Carbon Tetrachloride	7.65	117	52926	8.590 ug/l #	15
39) Methylcyclohexane	8.82	83	2776	0.539 ug/l #	1
41) Methacrylonitrile	6.92	41	136	0.953 ug/l #	100
43) Isopropyl Acetate	8.24	43	36857	3.103 ug/l #	57
44) Trichloroethene	8.82	130	186512	40.713 ug/l	96
49) 1,4-Dioxane	9.19	88	999	11.281 ug/l	91
60) Dibromochloromethane	10.63	129	6193	1.236 ug/l #	11
64) Tetrachloroethene	10.63	164	5927	1.689 ug/l	94
71) Bromoform	12.40	173	604	3.760 ug/l #	29
76) 1,2,3-Trichloropropane	12.40	75	182206	34.170 ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	182206	95.722 ug/l #	5

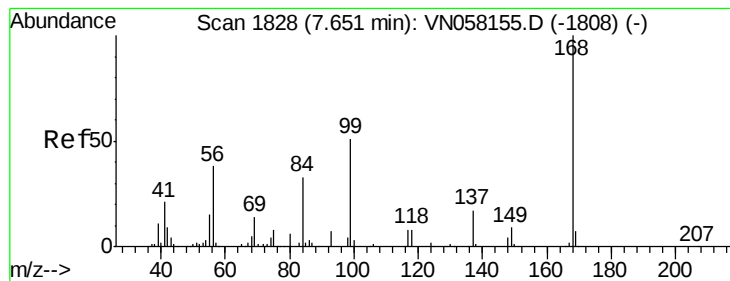
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Sep 19 09:27:53 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058199.D

Acq: 19 Sep 2019 12:44

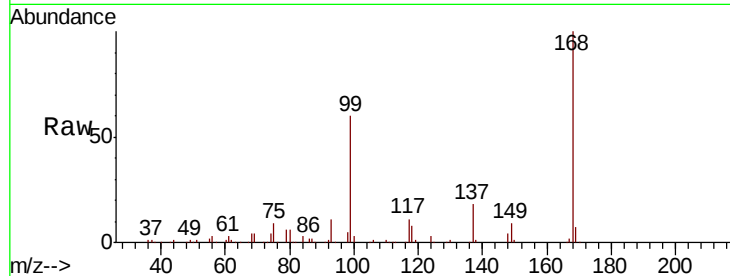
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 519237

Ion Ratio Lower Upper

168 100

99 59.8 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

250000

200000

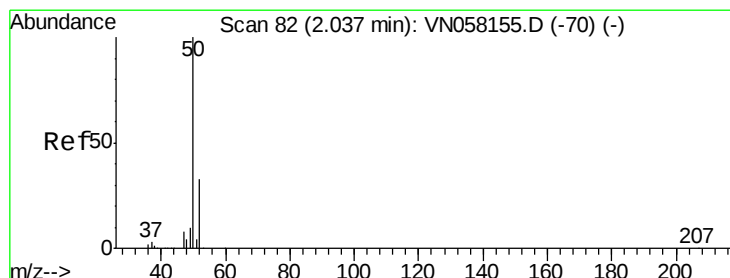
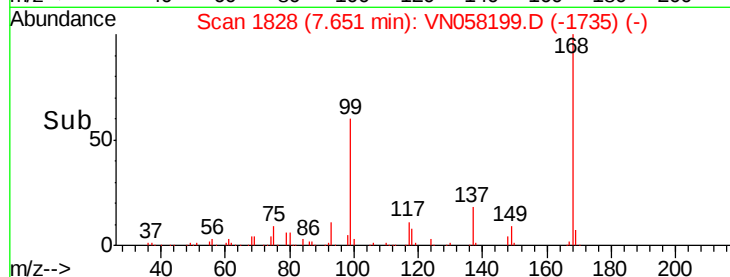
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058199.D

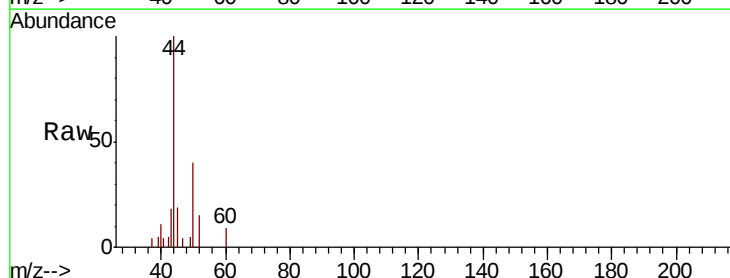
Acq: 19 Sep 2019 12:44

Tgt Ion: 50 Resp: 2111

Ion Ratio Lower Upper

50 100

52 38.3 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

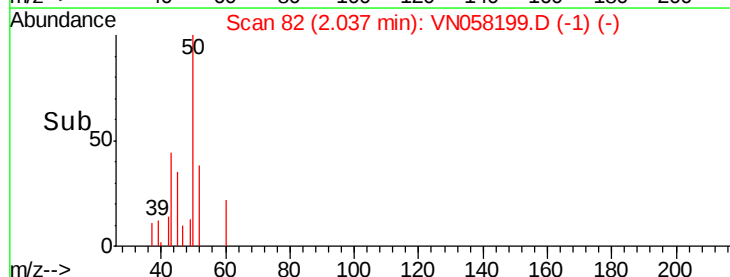
1500

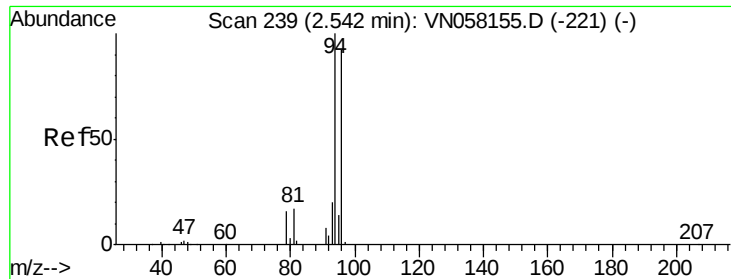
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.776 ug/l

RT: 2.56 min Scan# 245

Delta R.T. 0.02 min

Lab File: VN058199.D

Acq: 19 Sep 2019 12:44

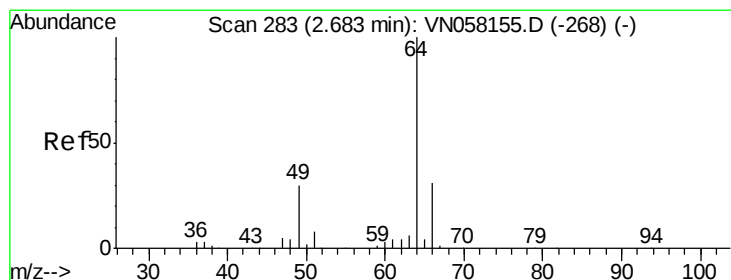
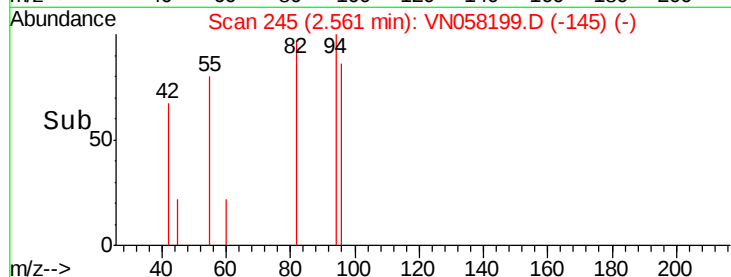
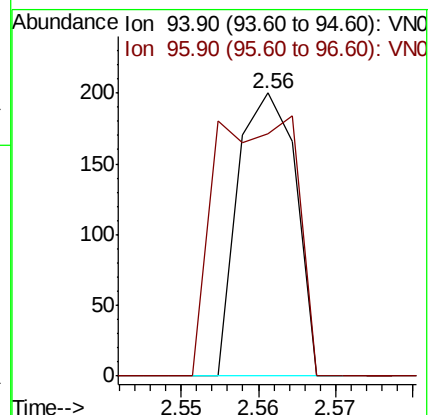
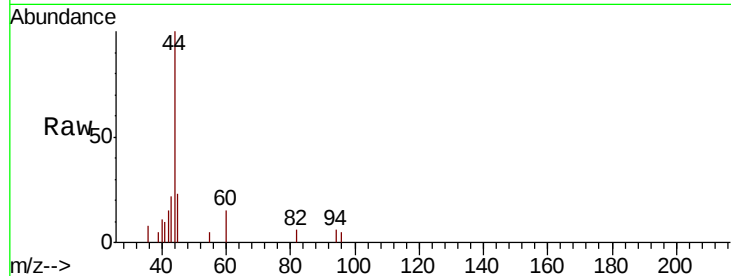
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 94 Resp: 103

Ion Ratio Lower Upper

94 100

96 85.5 73.3 109.9



#6

Chloroethane

Concen: Below Cal

RT: 2.75 min Scan# 303

Delta R.T. 0.06 min

Lab File: VN058199.D

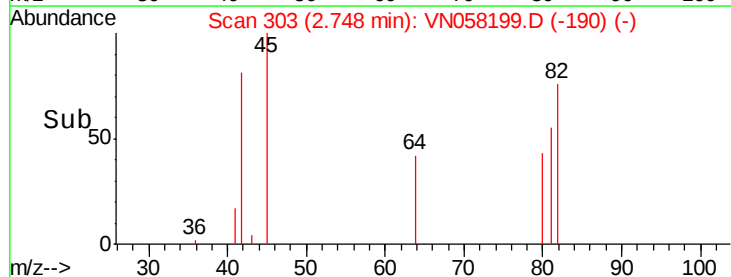
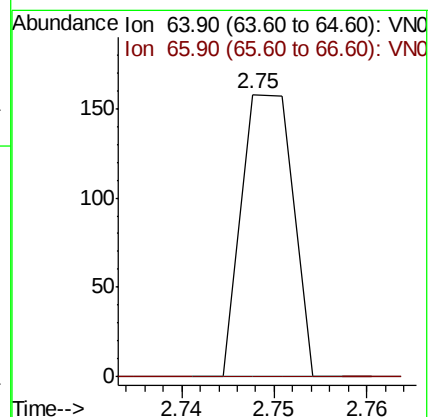
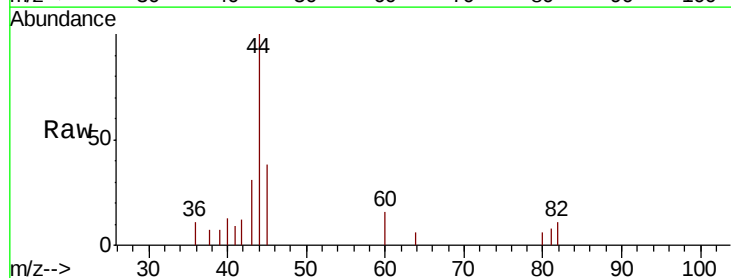
Acq: 19 Sep 2019 12:44

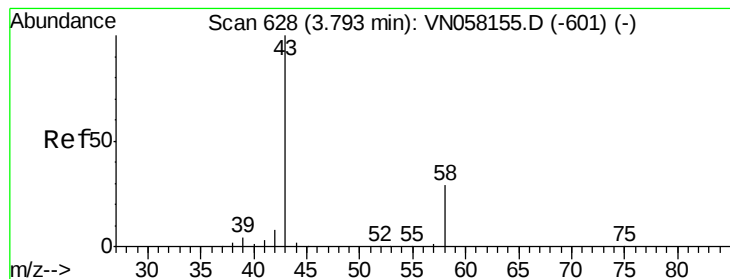
Tgt Ion: 64 Resp: 61

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#





#16

Acetone

Concen: 0.956 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN058199.D

Acq: 19 Sep 2019 12:44

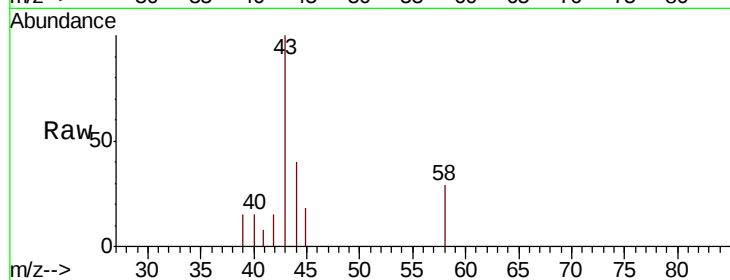
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 2348

Ion Ratio Lower Upper

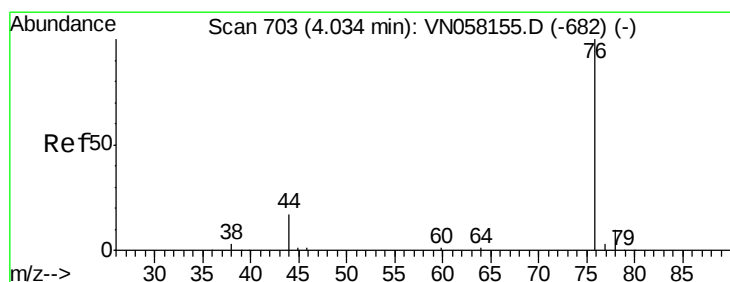
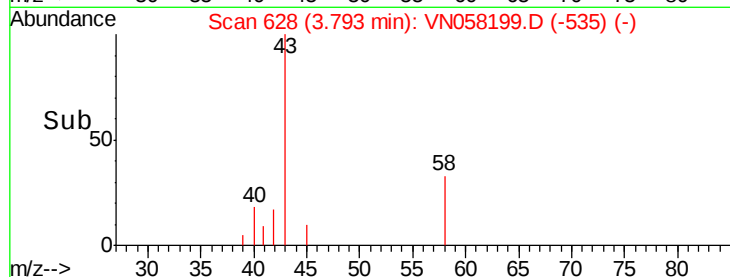
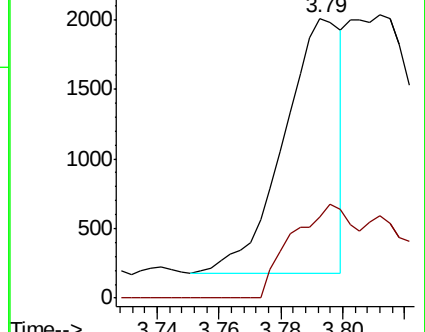
43 100

58 32.0 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VN058199.D (-535) (-)

Ion 58.00 (57.70 to 58.70): VN058199.D (-535) (-)



#17

Carbon Disulfide

Concen: 0.284 ug/l

RT: 4.02 min Scan# 699

Delta R.T. -0.01 min

Lab File: VN058199.D

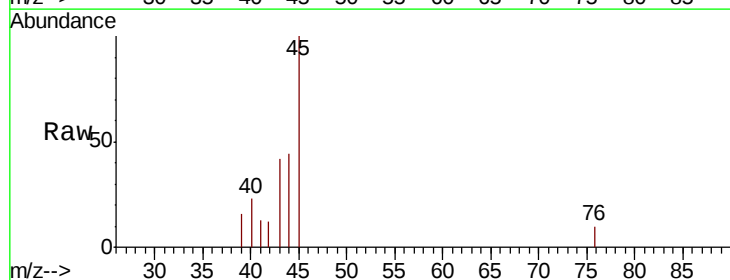
Acq: 19 Sep 2019 12:44

Tgt Ion: 76 Resp: 60

Ion Ratio Lower Upper

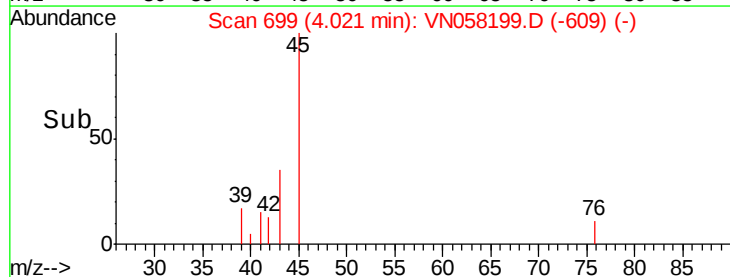
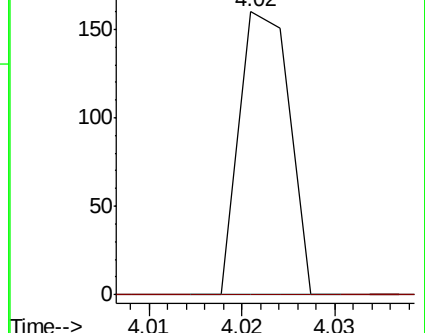
76 100

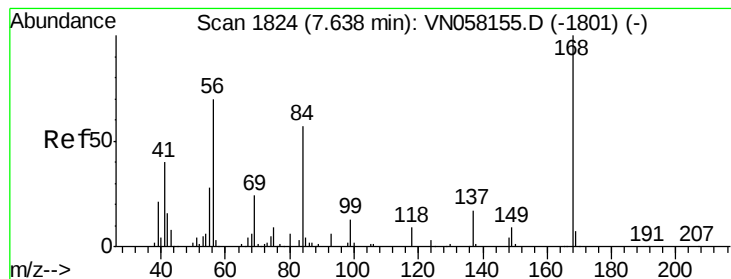
78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN058199.D (-609) (-)

Ion 77.90 (77.60 to 78.60): VN058199.D (-609) (-)





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058199.D

Acq: 19 Sep 2019 12:44

Instrument :
MSVOA_N
ClientSampled :

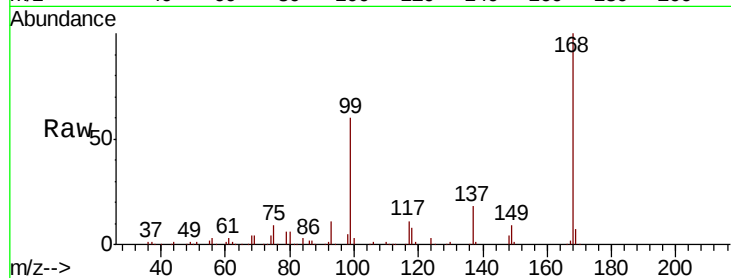
Tot Ion: 56 Resp: 12144

Ion Ratio Lower Upper

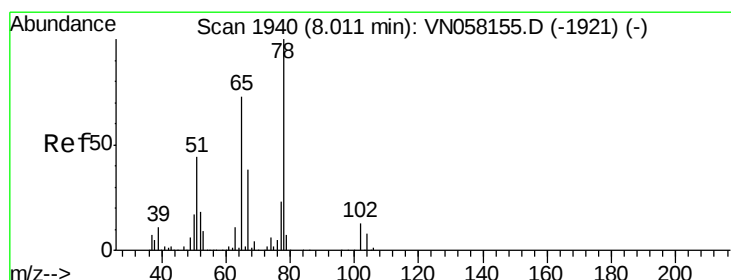
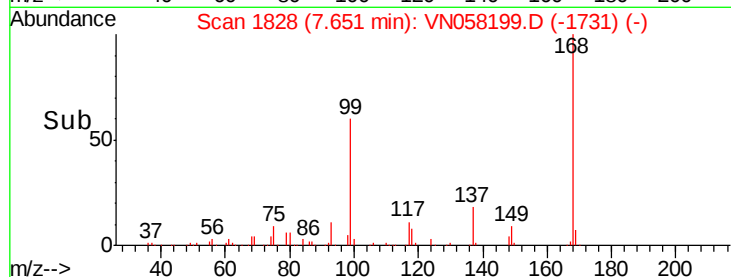
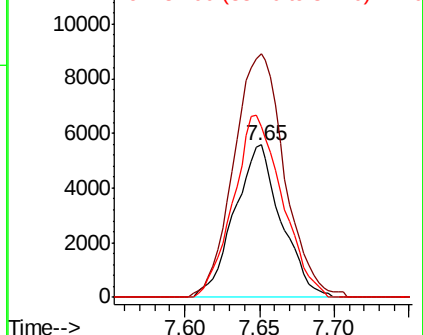
56 100

69 159.6 27.3 40.9#

84 111.9 65.0 97.4#



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: 51.177 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058199.D

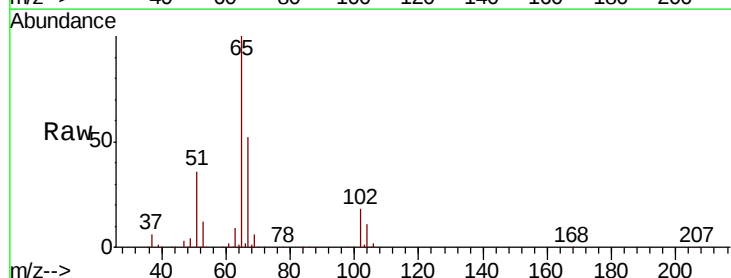
Acq: 19 Sep 2019 12:44

Tgt Ion: 65 Resp: 370112

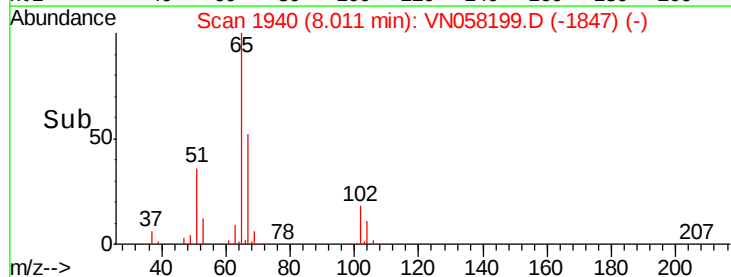
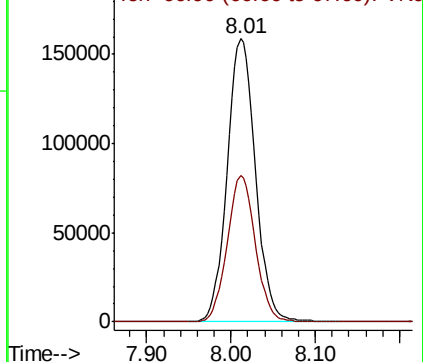
Ion Ratio Lower Upper

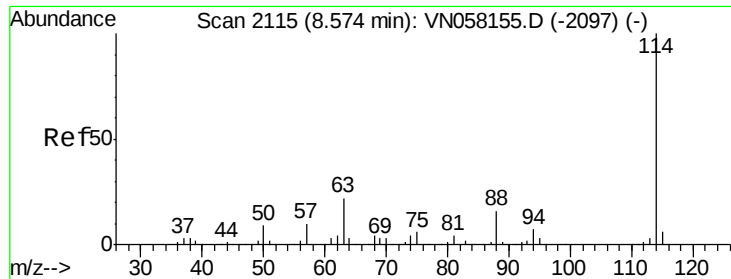
65 100

67 51.3 0.0 103.4



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

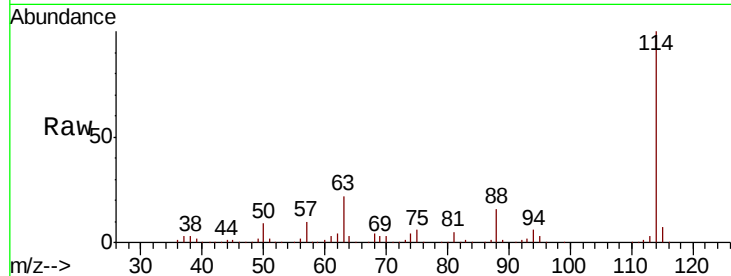




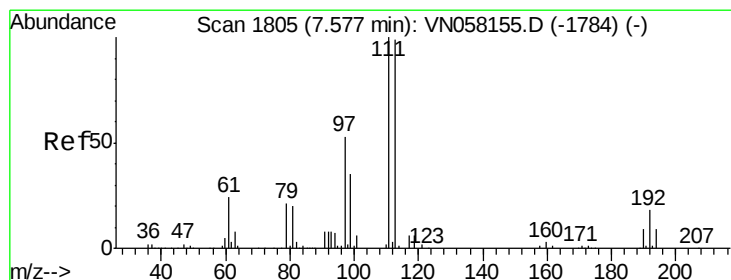
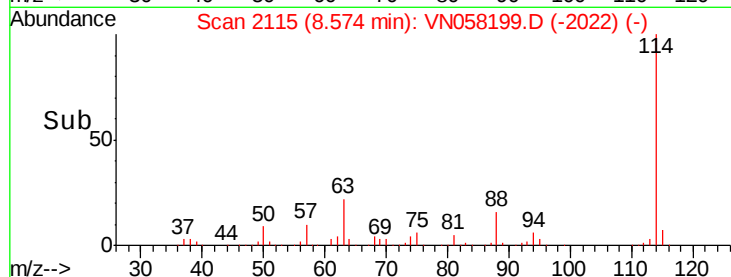
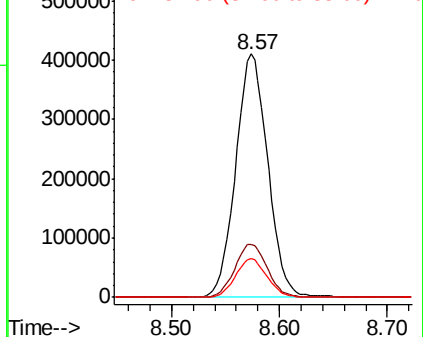
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2115
Delta R.T. 0.00 min
Lab File: VN058199.D
Acq: 19 Sep 2019 12:44

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	44.2
88	16.0	0.0	31.6

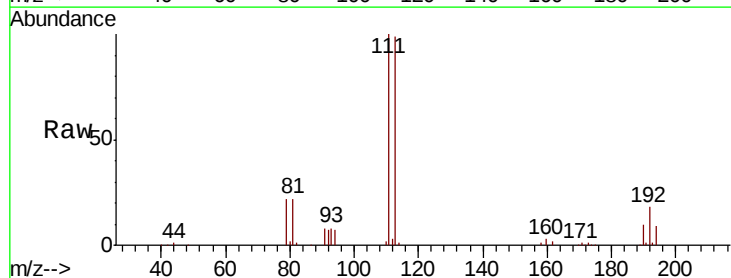


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

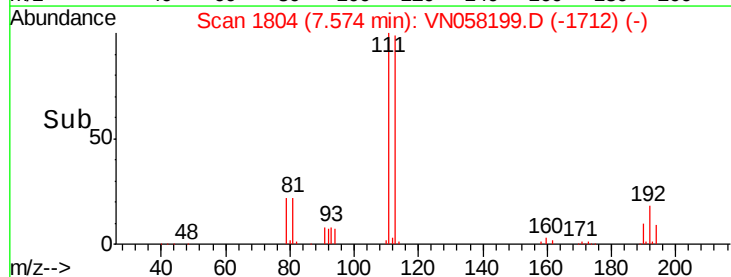
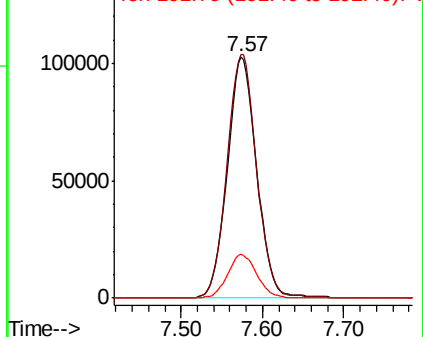


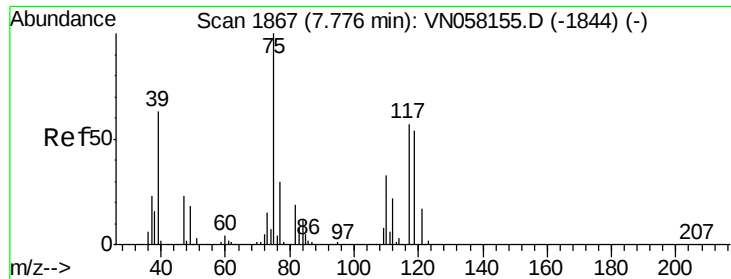
#35
Dibromofluoromethane
Concen: 50.203 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VN058199.D
Acq: 19 Sep 2019 12:44

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.0	81.8	122.6
192	18.2	14.5	21.7



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

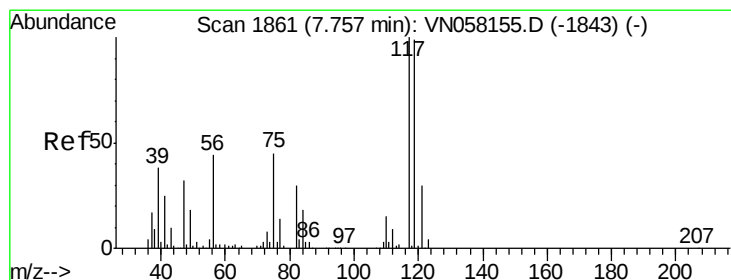
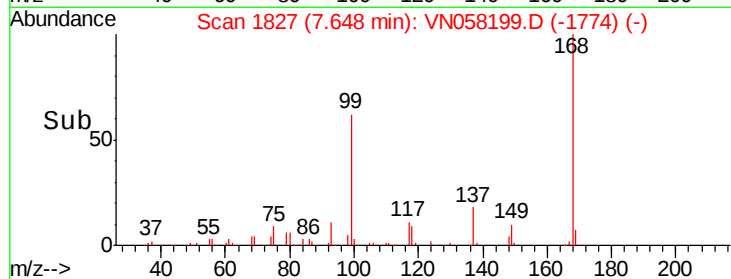
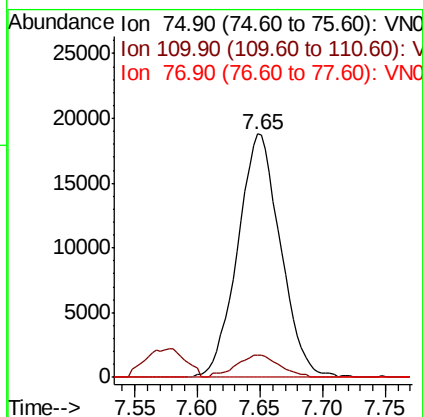
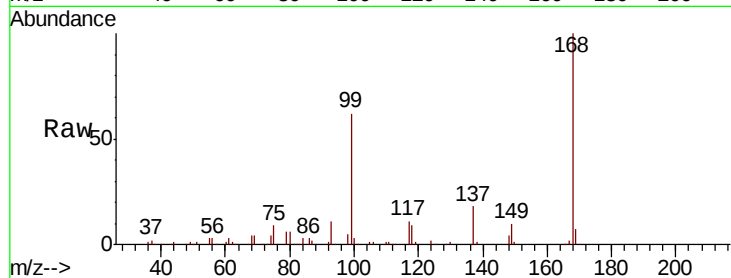




#36
 1,1-Dichloropropene
 Concen: 7.272 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058199.D
 Acq: 19 Sep 2019 12:44

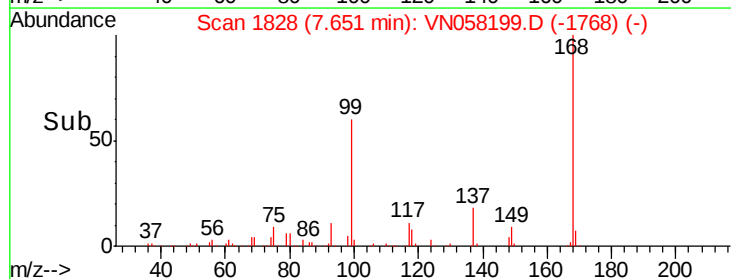
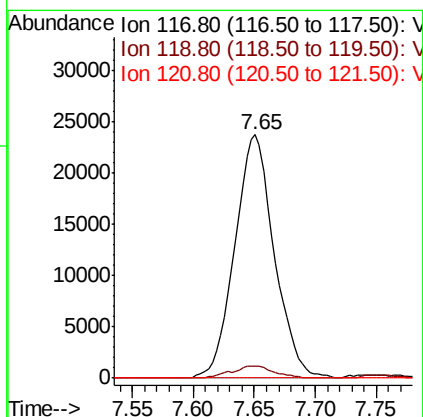
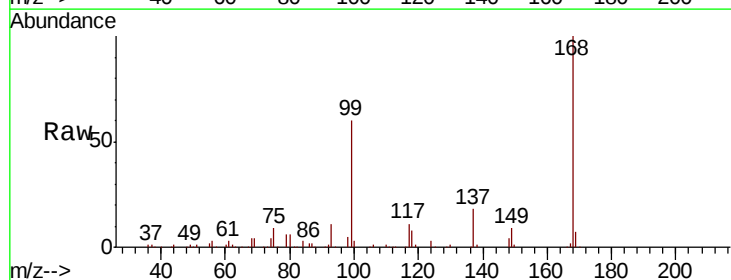
Instrument :
 MSVOA_N
 ClientSampleId :

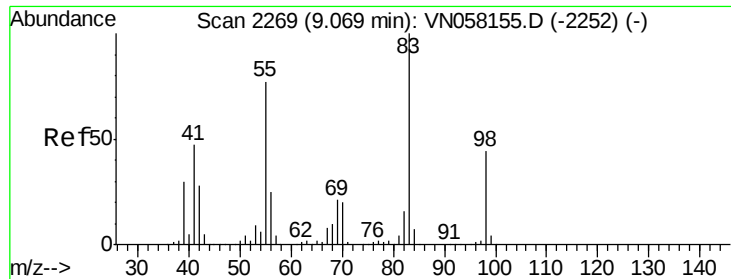
Tot Ion	75	Resp	44572
Ion Ratio	Lower	Upper	
75	100		
110	9.3	16.6	49.7#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 8.590 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058199.D
 Acq: 19 Sep 2019 12:44

Tgt Ion	117	Resp	52926
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	4.9	78.6	117.8#
121	0.0	24.1	36.1#

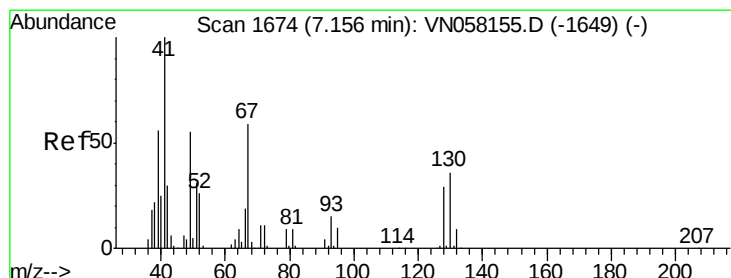
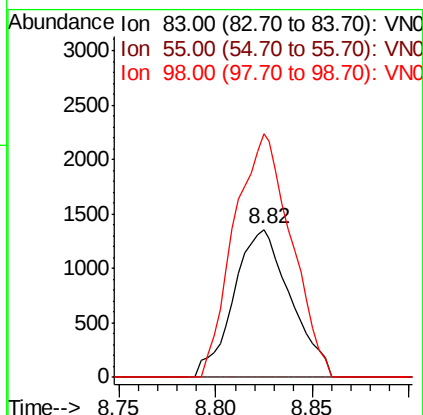
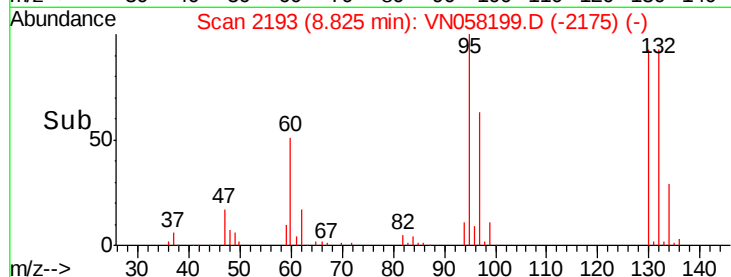
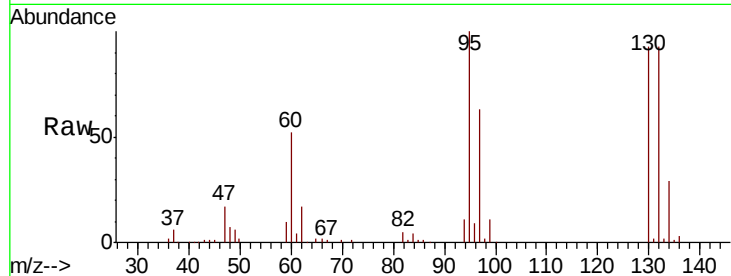




#39
Methvlcvclohexane
Concen: 0.539 ug/l
RT: 8.82 min Scan# 2193
Delta R.T. -0.24 min
Lab File: VN058199.D
Acq: 19 Sep 2019 12:44

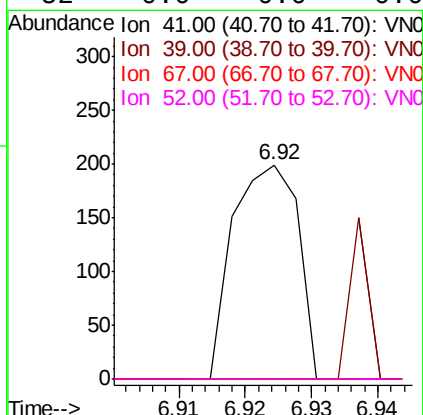
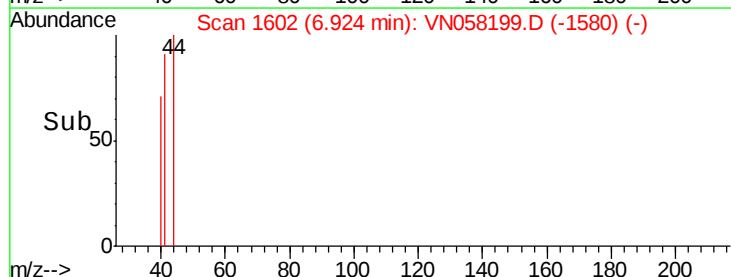
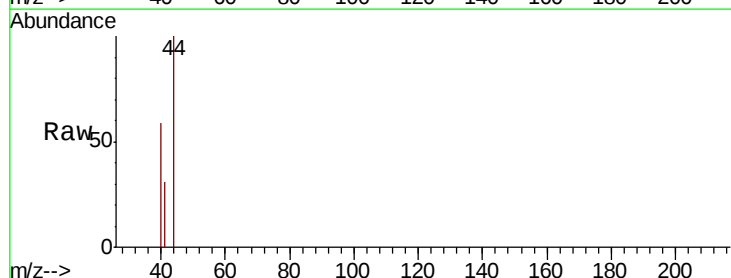
Instrument :
MSVOA_N
ClientSampleId :

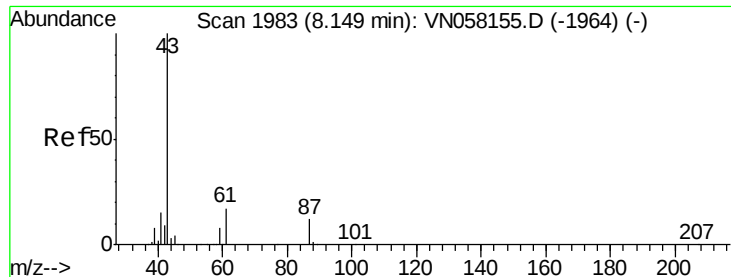
Tot Ion: 83 Resp: 2776
Ion Ratio Lower Upper
83 100
55 0.0 61.9 92.9#
98 164.5 35.4 53.2#



#41
Methacrylonitrile
Concen: 0.953 ug/l
RT: 6.92 min Scan# 1602
Delta R.T. -0.23 min
Lab File: VN058199.D
Acq: 19 Sep 2019 12:44

Tgt Ion: 41 Resp: 136
Ion Ratio Lower Upper
41 100
39 21.3 0.0 0.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0





#43

Isopropyl Acetate

Concen: 3.103 ug/l

RT: 8.24 min Scan# 2012

Delta R.T. 0.09 min

Lab File: VN058199.D

Acq: 19 Sep 2019 12:44

Instrument :

MSVOA_N

ClientSampleId :

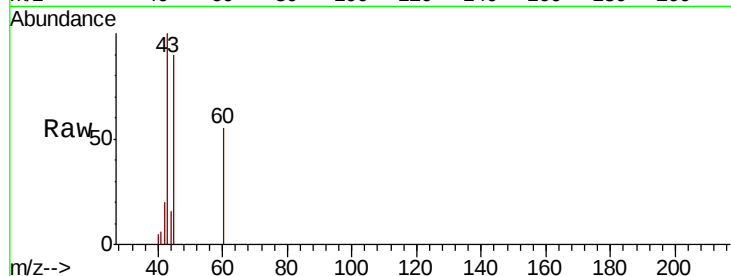
Tot Ion: 43 Resp: 36857

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

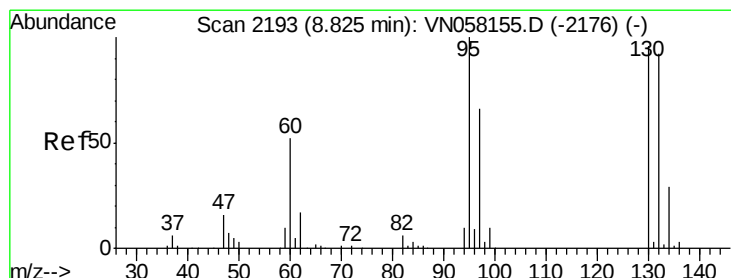
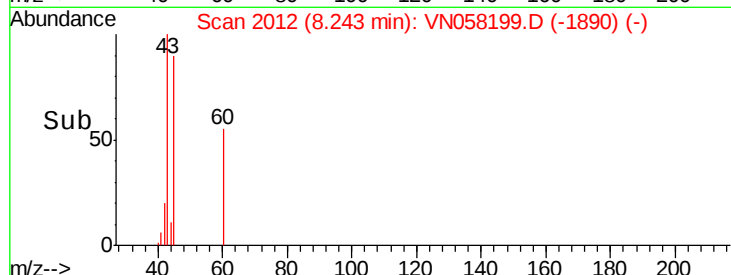
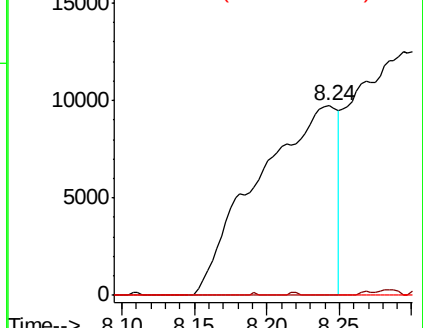
87 0.0 9.4 14.2#



Abundance Ion 43.00 (42.70 to 43.70): VN058155.D (-1964) (-)

Ion 61.00 (60.70 to 61.70): VN058155.D (-1964) (-)

Ion 87.00 (86.70 to 87.70): VN058155.D (-1964) (-)



#44

Trichloroethene

Concen: 40.713 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058199.D

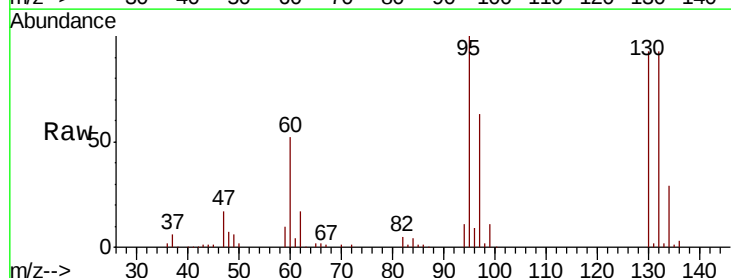
Acq: 19 Sep 2019 12:44

Tgt Ion: 130 Resp: 186512

Ion Ratio Lower Upper

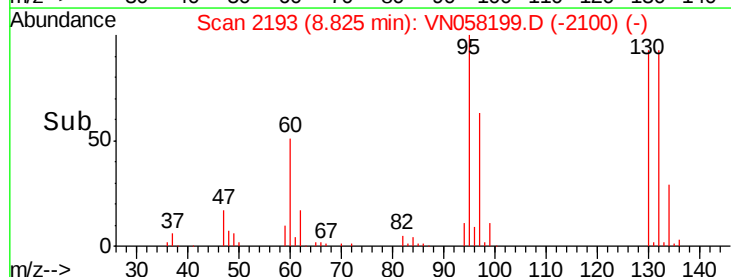
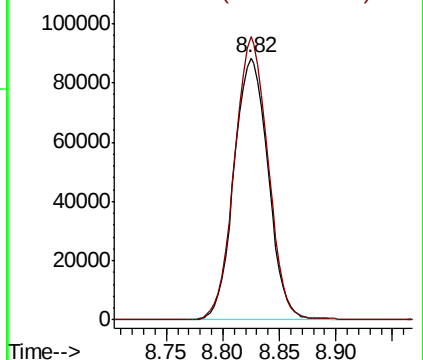
130 100

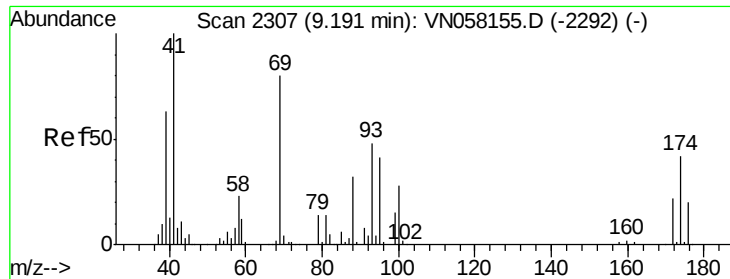
95 107.9 0.0 207.8



Abundance Ion 129.80 (129.50 to 130.50): VN058155.D (-2176) (-)

Ion 94.90 (94.60 to 95.60): VN058155.D (-2176) (-)

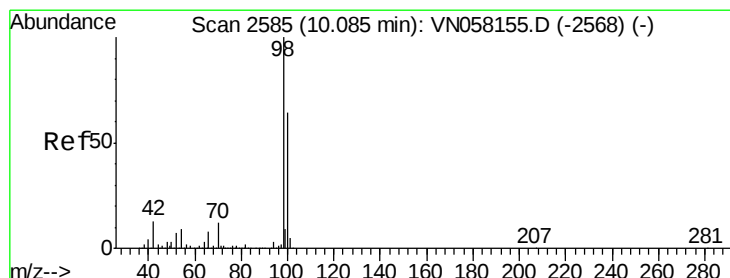
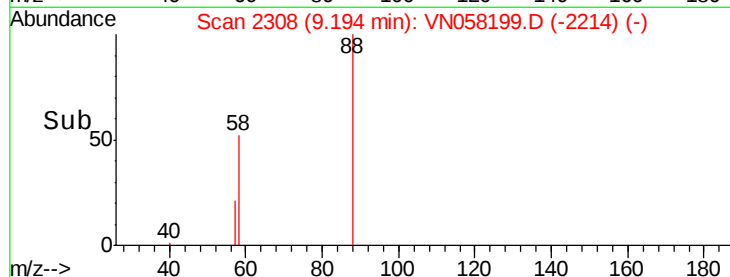
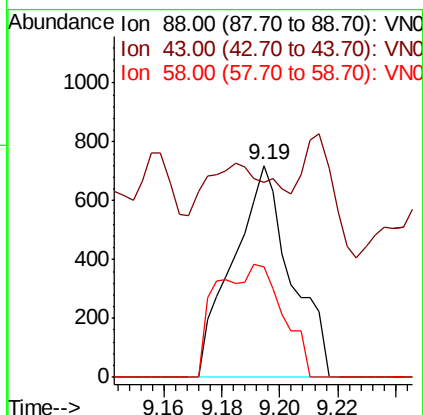
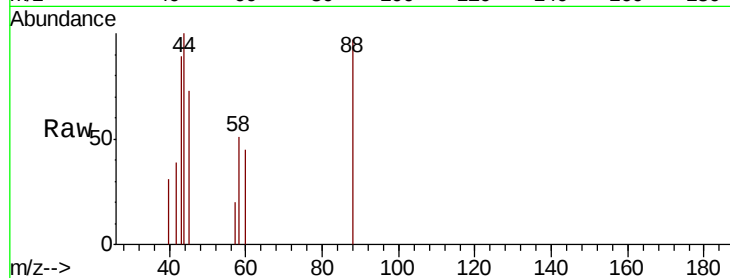




#49
 1,4-Dioxane
 Concen: 11.281 ug/l
 RT: 9.19 min Scan# 2308
 Delta R.T. 0.00 min
 Lab File: VN058199.D
 Acq: 19 Sep 2019 12:44

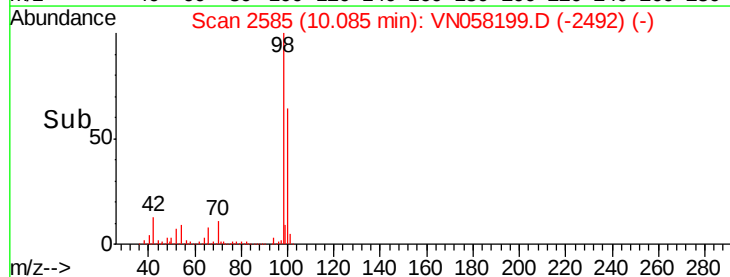
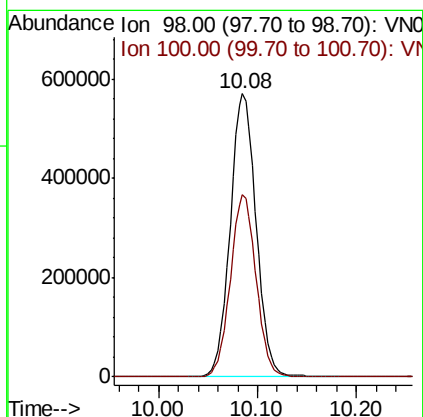
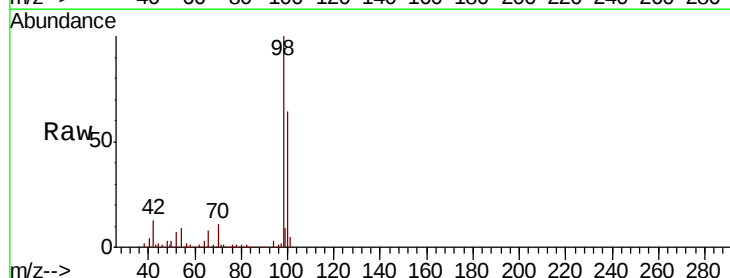
Instrument :
 MSVOA_N
 ClientSampled :

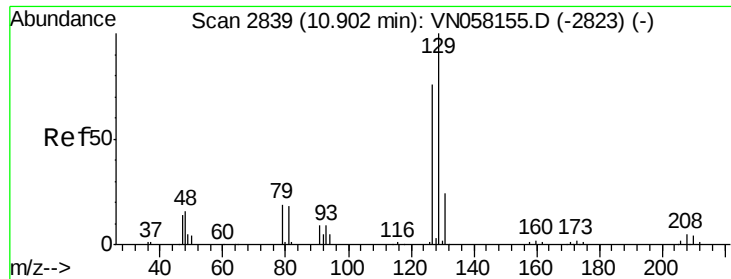
Tot Ion: 88 Resp: 999
 Ion Ratio Lower Upper
 88 100
 43 39.6 27.8 41.8
 58 61.1 55.0 82.4



#50
 Toluene-d8
 Concen: 51.988 ug/l
 RT: 10.08 min Scan# 2585
 Delta R.T. 0.00 min
 Lab File: VN058199.D
 Acq: 19 Sep 2019 12:44

Tgt Ion: 98 Resp: 1046556
 Ion Ratio Lower Upper
 98 100
 100 63.8 51.1 76.7

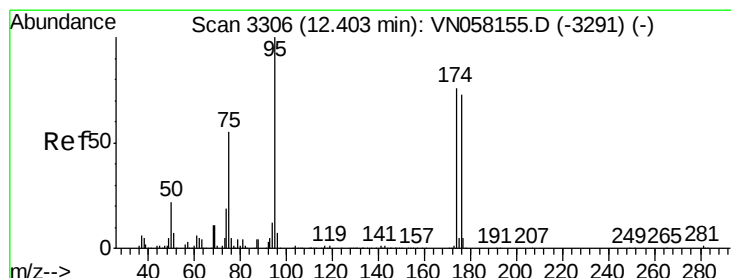
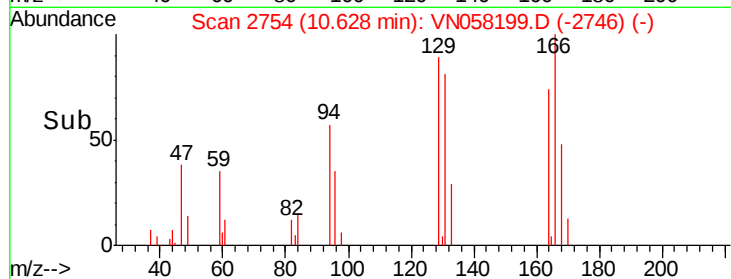
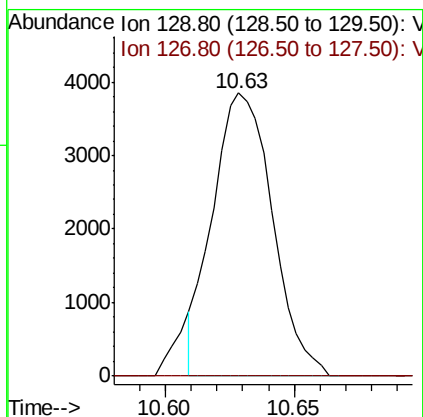
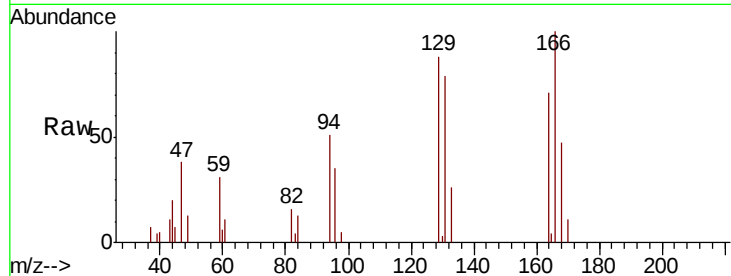




#60
Dibromochloromethane
Concen: 1.236 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.27 min
Lab File: VN058199.D
Acq: 19 Sep 2019 12:44

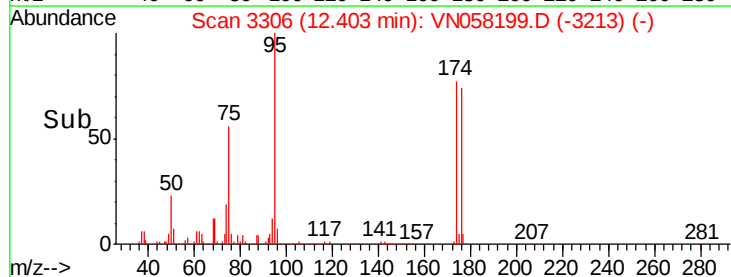
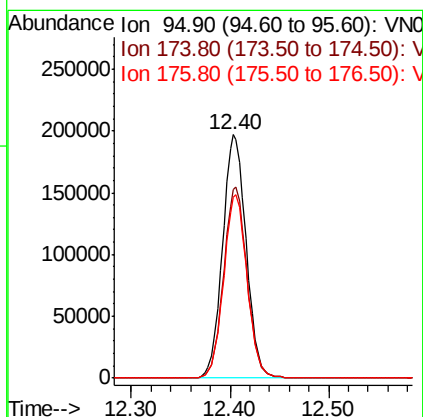
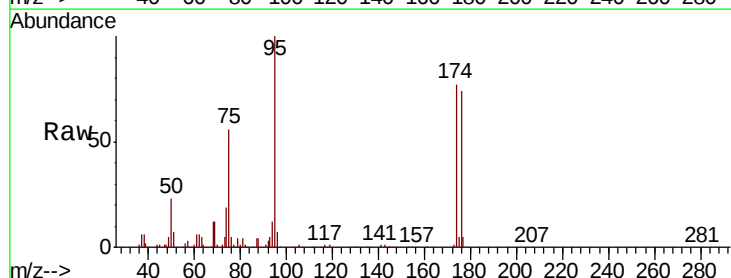
Instrument :
MSVOA_N
ClientSampleId :

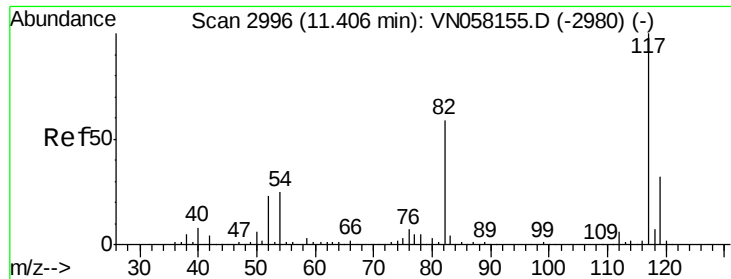
Tot Ion:129 Resp: 6193
Ion Ratio Lower Upper
129 100
127 0.0 38.7 116.1#



#62
4-Bromofluorobenzene
Concen: 44.223 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN058199.D
Acq: 19 Sep 2019 12:44

Tgt Ion: 95 Resp: 330688
Ion Ratio Lower Upper
95 100
174 77.6 0.0 152.2
176 75.0 0.0 148.0

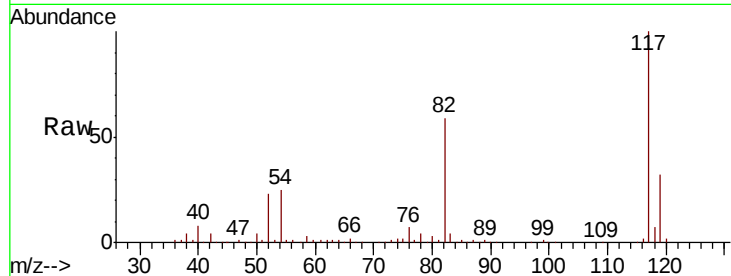




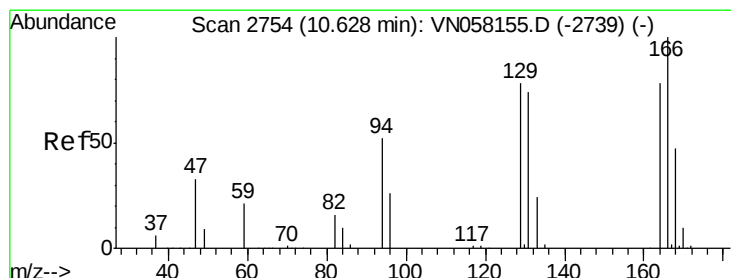
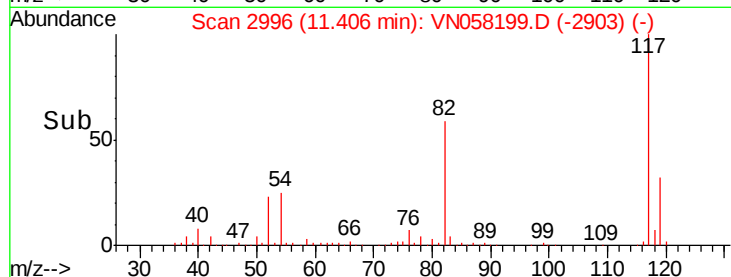
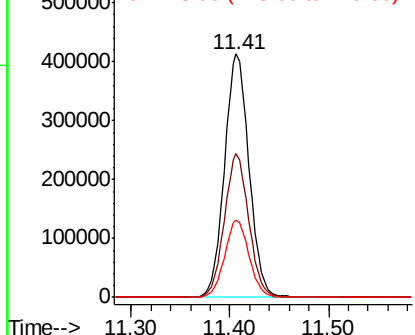
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058199.D
Acq: 19 Sep 2019 12:44

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 719855
Ion Ratio Lower Upper
117 100
82 58.9 46.9 70.3
119 31.8 25.3 37.9

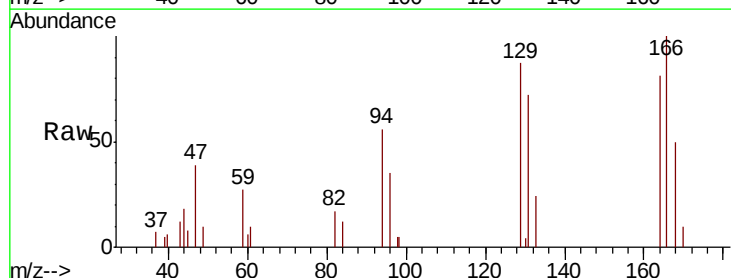


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

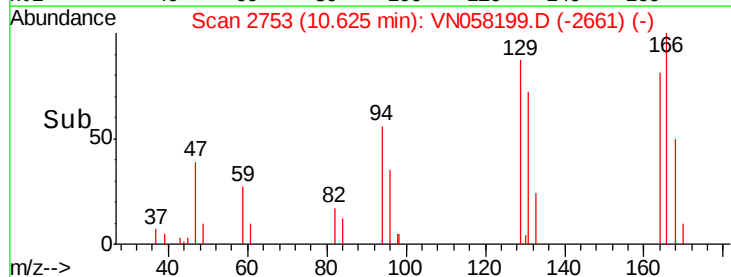
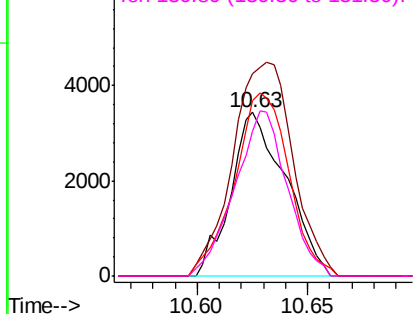


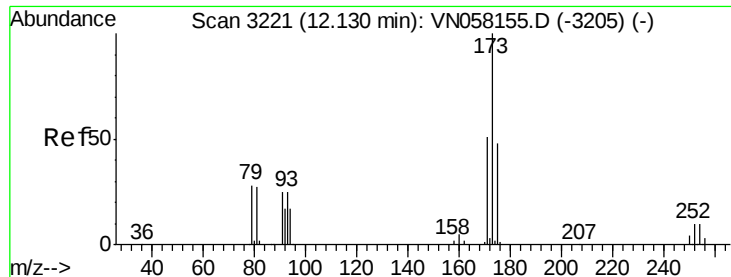
#64
Tetrachloroethene
Concen: 1.689 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. -0.00 min
Lab File: VN058199.D
Acq: 19 Sep 2019 12:44

Tgt Ion:164 Resp: 5927
Ion Ratio Lower Upper
164 100
166 123.8 102.2 153.4
129 107.3 79.6 119.4
131 88.7 76.0 114.0



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: 3.760 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN058199.D

Acq: 19 Sep 2019 12:44

Instrument :

MSVOA_N

ClientSampleId :

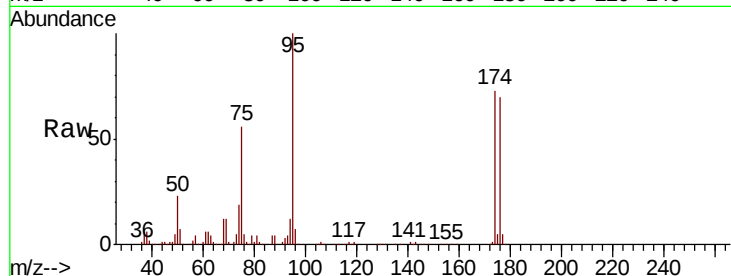
Tot Ion:173 Resp: 604

Ion Ratio Lower Upper

173 100

175 0.0 24.2 72.6#

254 0.0 0.1 0.1#

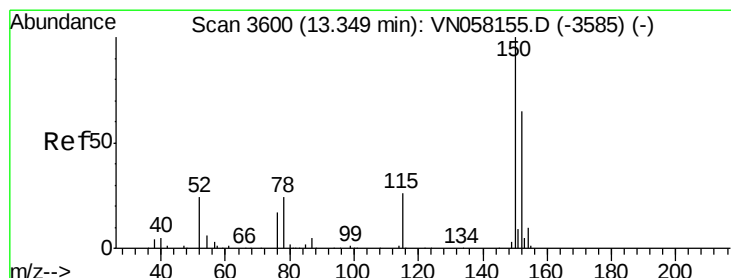
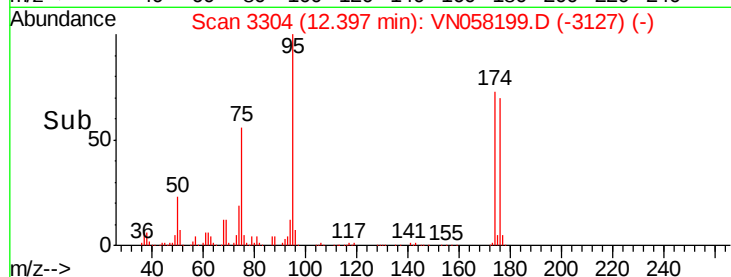
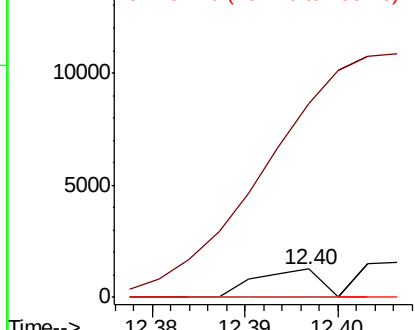


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058199.D

Acq: 19 Sep 2019 12:44

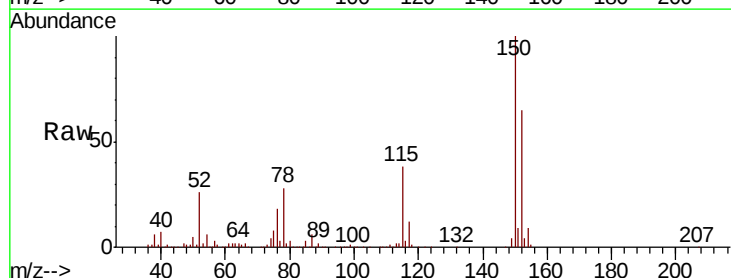
Tgt Ion:152 Resp: 297951

Ion Ratio Lower Upper

152 100

115 59.8 30.1 90.3

150 155.9 0.0 346.4

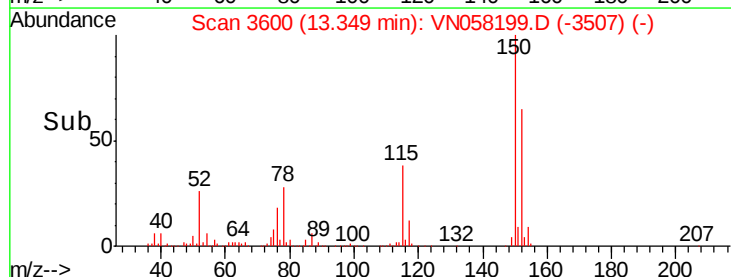
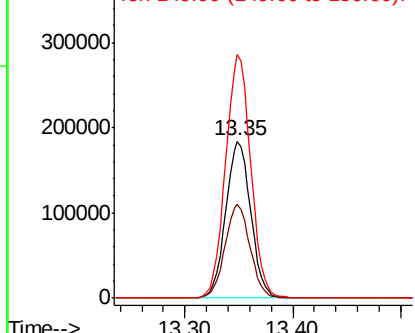


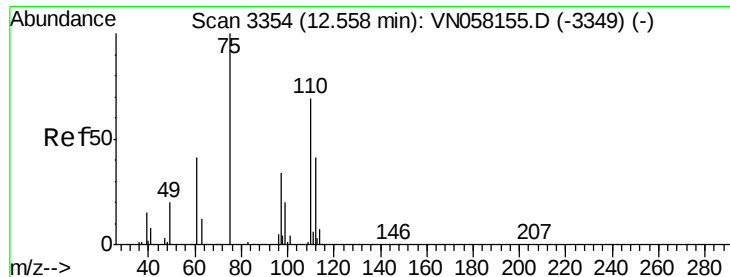
Abundance

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: 34.170 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058199.D

Acq: 19 Sep 2019 12:44

Instrument :

MSVOA_N

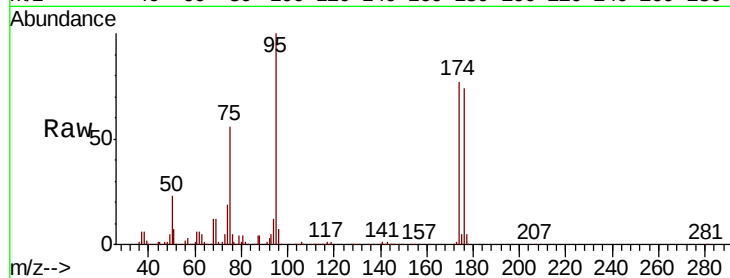
ClientSampleId :

Tot Ion: 75 Resp: 182206

Ion Ratio Lower Upper

75 100

77 1.0 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

100000

80000

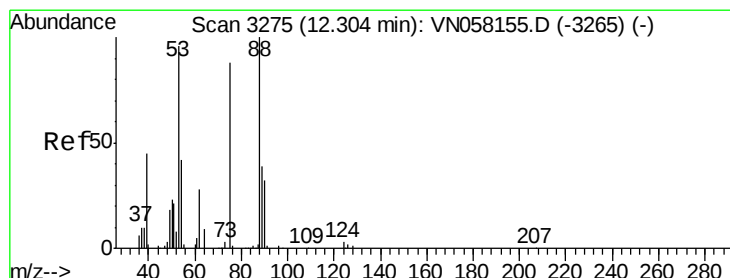
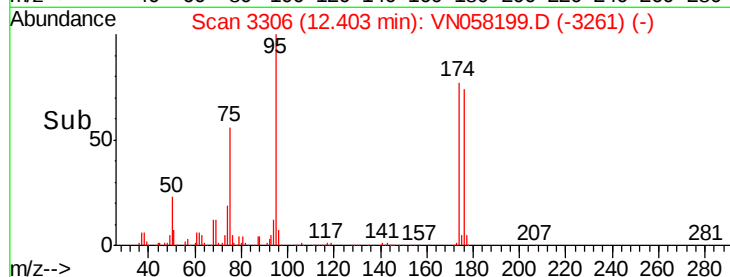
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 95.722 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058199.D

Acq: 19 Sep 2019 12:44

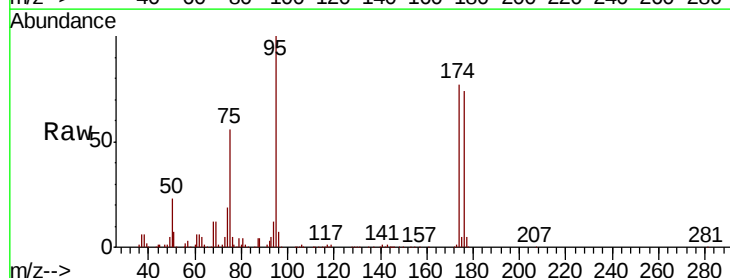
Tgt Ion: 75 Resp: 182206

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.2 54.2#



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

150000

100000

50000

0

Time-->

