

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100419\
 Data File : VN058549.D
 Acq On : 4 Oct 2019 18:21
 Operator : JC/SP
 Sample : K5197-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 04 23:40:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	424148	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	681841	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	591812	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	237251	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	294832	47.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.14%	
35) Dibromofluoromethane	7.57	113	208841	49.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.94%	
50) Toluene-d8	10.09	98	875900	53.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.00%	
62) 4-Bromofluorobenzene	12.41	95	274240	46.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.66%	

Target Compounds

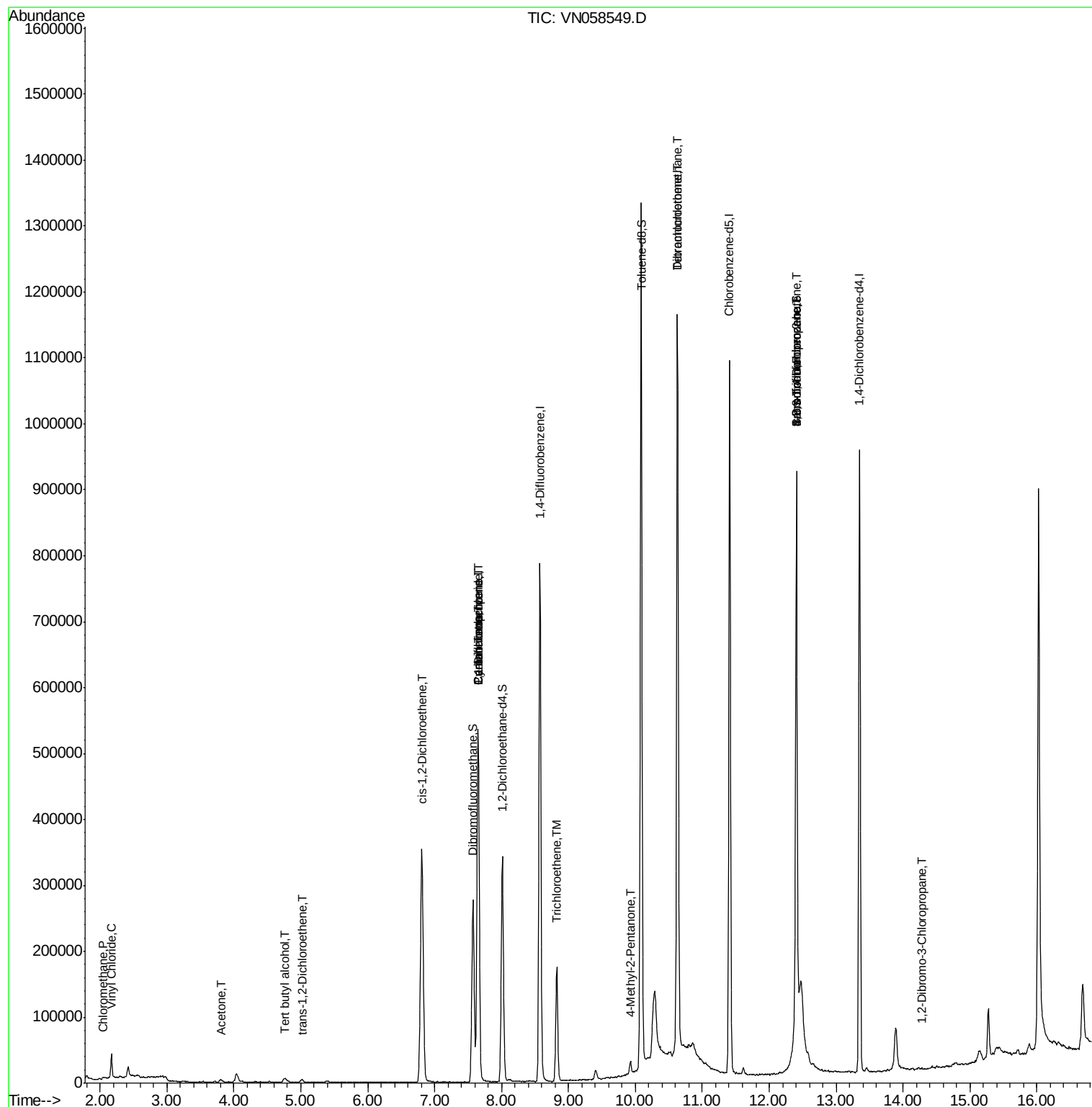
						Qvalue
3) Chloromethane	2.04	50	2345	0.459	ug/l	95
4) Vinyl Chloride	2.17	62	30928	6.175	ug/l	99
11) Tert butyl alcohol	4.75	59	11272	16.370	ug/l #	74
16) Acetone	3.80	43	6937	3.283	ug/l	94
21) trans-1,2-Dichloroethene	5.01	96	1545	0.347	ug/l #	66
27) cis-1,2-Dichloroethene	6.81	96	219986	42.303	ug/l	89
31) Cyclohexane	7.65	56	10861	1.266	ug/l #	16
36) 1,1-Dichloropropene	7.65	75	36456	5.592	ug/l #	46
38) Carbon Tetrachloride	7.65	117	43646	7.416	ug/l #	15
44) Trichloroethene	8.82	130	59226	12.799	ug/l	91
51) 4-Methyl-2-Pentanone	9.92	43	8971	1.680	ug/l #	37
60) Dibromochloromethane	10.63	129	229894	51.706	ug/l #	11
64) Tetrachloroethene	10.63	164	244101	64.921	ug/l	99
71) Bromoform	12.41	173	236	0.780	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	152157	35.113	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	152157	106.641	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.28	75	377	0.412	ug/l #	5
95) Naphthalene	15.13	128	283	Below Cal	#	70

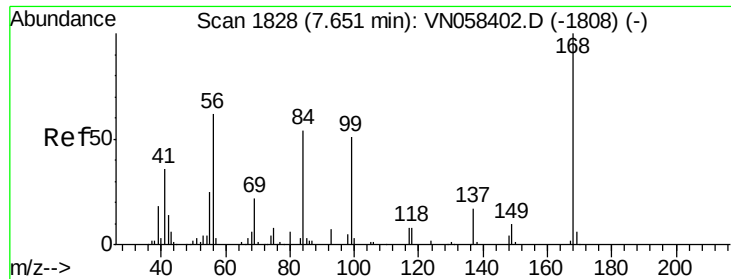
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058549.D

Acq: 4 Oct 2019 18:21

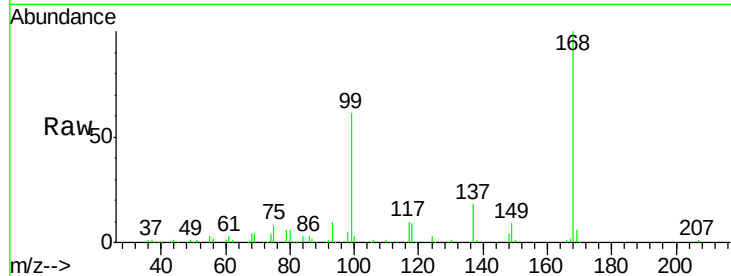
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 424148

Ion Ratio Lower Upper

168 100

99 60.8 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

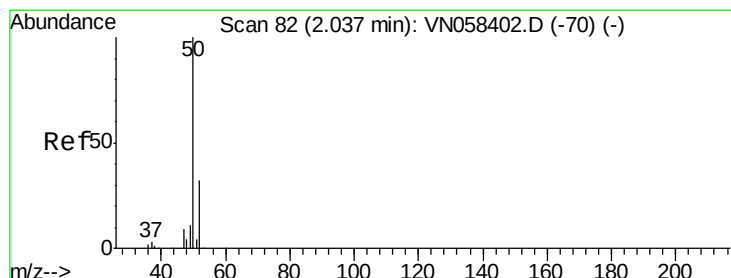
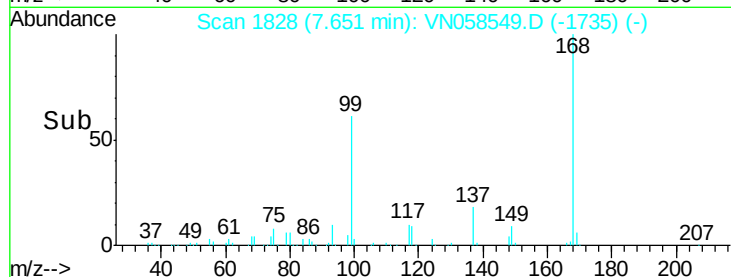
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.459 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058549.D

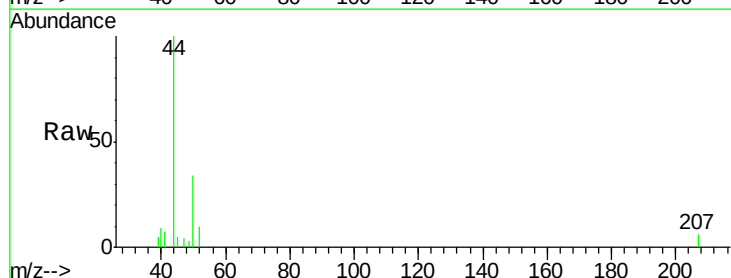
Acq: 4 Oct 2019 18:21

Tgt Ion: 50 Resp: 2345

Ion Ratio Lower Upper

50 100

52 29.9 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

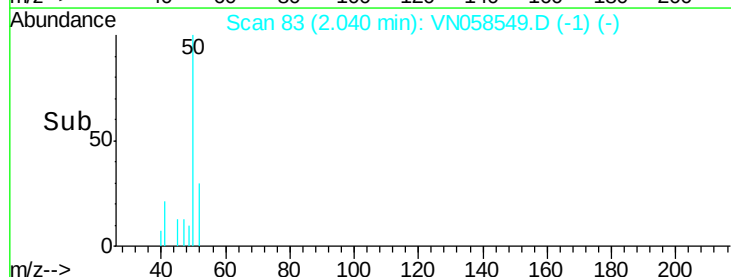
1500

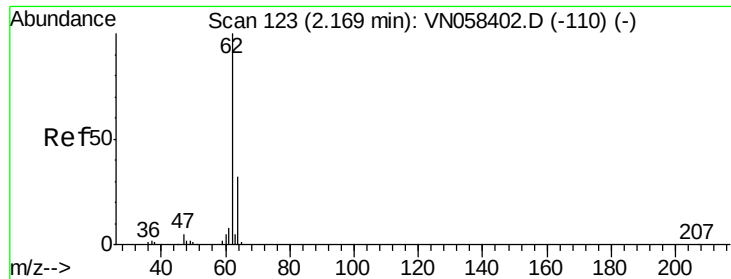
1000

500

0

Time-->





#4

Vinyl Chloride

Concen: 6.175 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058549.D

Acq: 4 Oct 2019 18:21

Instrument :

MSVOA_N

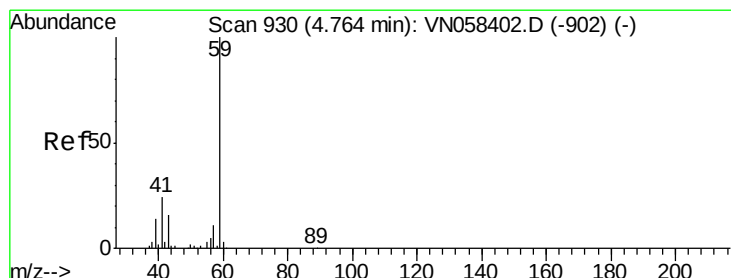
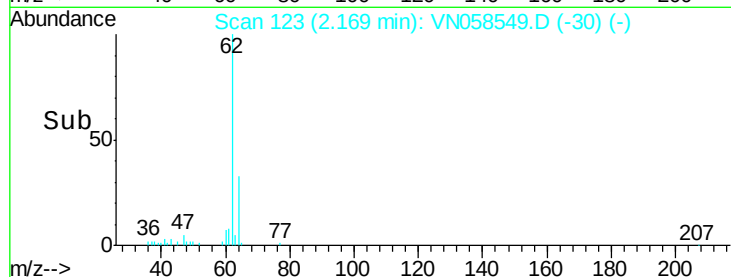
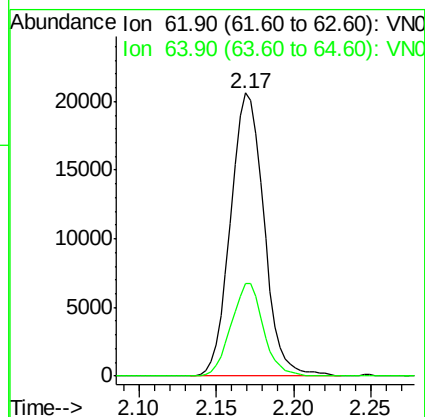
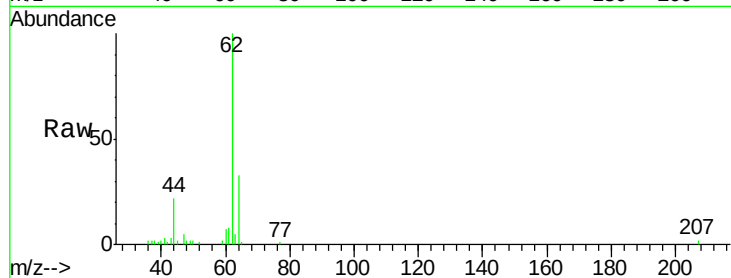
ClientSampled :

Tot Ion: 62 Resp: 30928

Ion Ratio Lower Upper

62 100

64 32.5 25.5 38.3



#11

Tert butyl alcohol

Concen: 16.370 ug/l

RT: 4.75 min Scan# 925

Delta R.T. -0.02 min

Lab File: VN058549.D

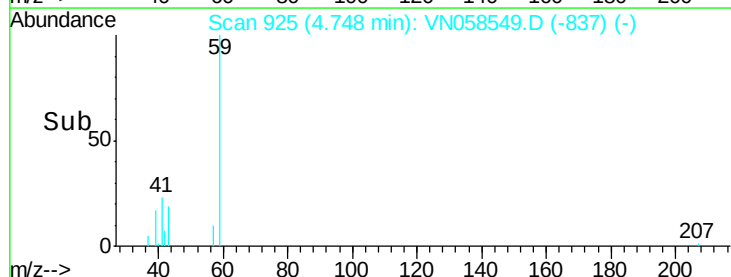
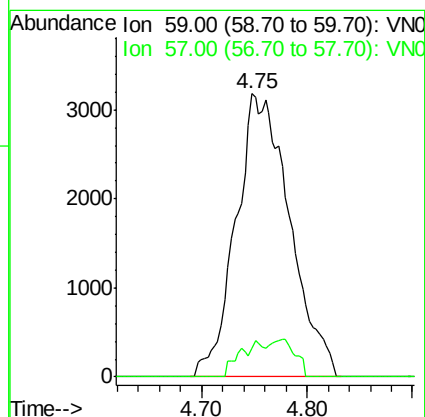
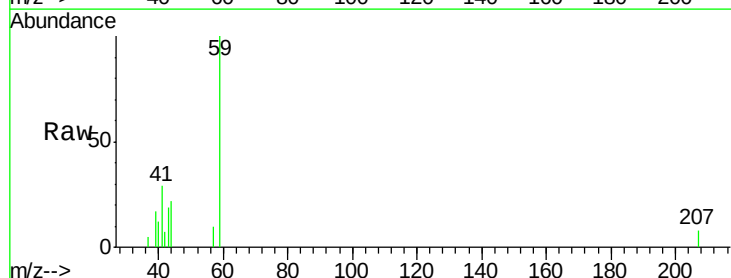
Acq: 4 Oct 2019 18:21

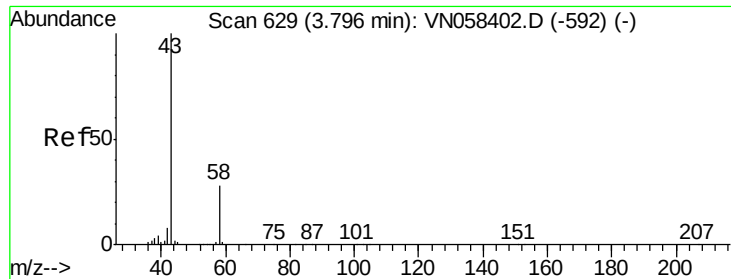
Tgt Ion: 59 Resp: 11272

Ion Ratio Lower Upper

59 100

57 1.1 9.0 13.4#

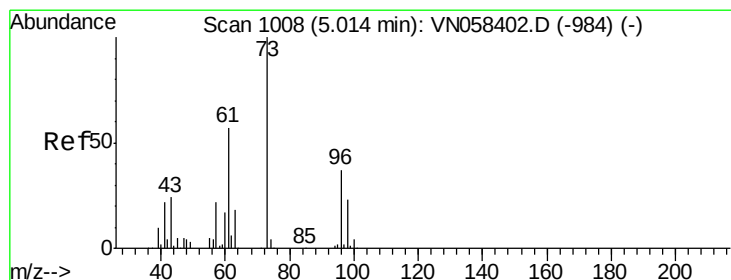
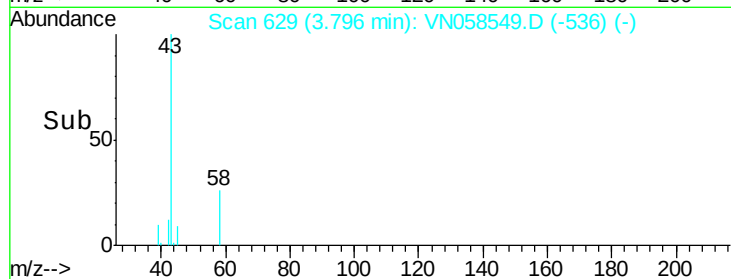
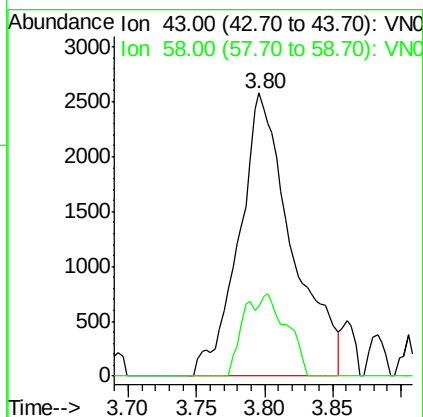
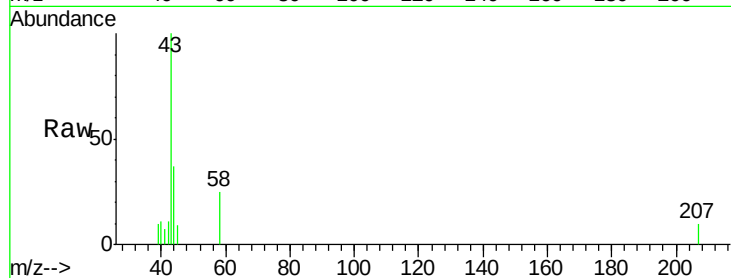




#16
Acetone
Concen: 3.283 ug/l
RT: 3.80 min Scan# 629
Delta R.T. 0.00 min
Lab File: VN058549.D
Acq: 4 Oct 2019 18:21

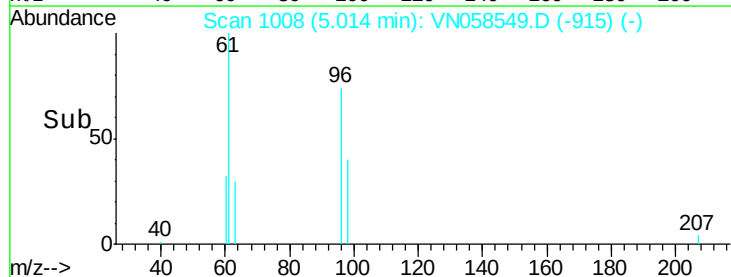
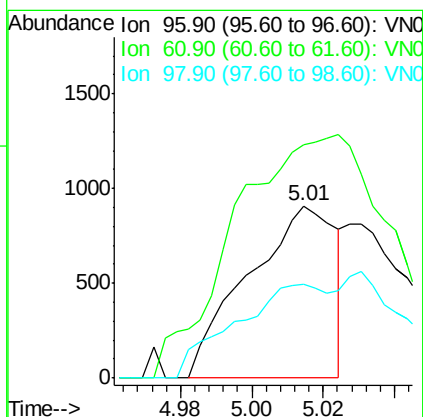
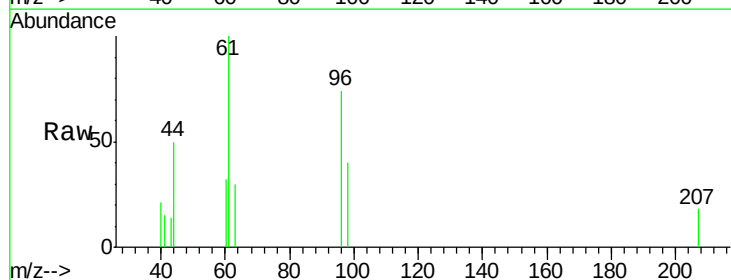
Instrument :
MSVOA_N
ClientSampleId :

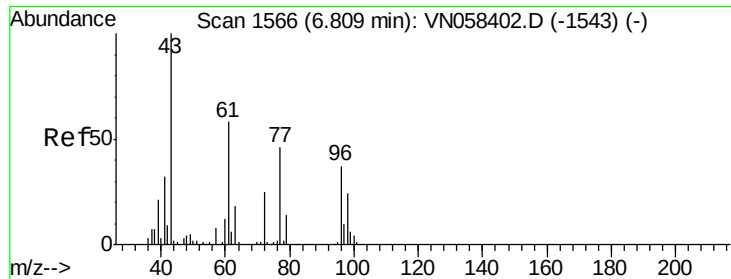
Tot Ion: 43 Resp: 6937
Ion Ratio Lower Upper
43 100
58 24.7 22.4 33.6



#21
trans-1,2-Dichloroethene
Concen: 0.347 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. 0.00 min
Lab File: VN058549.D
Acq: 4 Oct 2019 18:21

Tgt Ion: 96 Resp: 1545
Ion Ratio Lower Upper
96 100
61 106.8 121.9 182.9#
98 37.7 49.3 73.9#





#27

cis-1,2-Dichloroethene

Concen: 42.303 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN058549.D

Acq: 4 Oct 2019 18:21

Instrument :
MSVOA_N
ClientSampled :

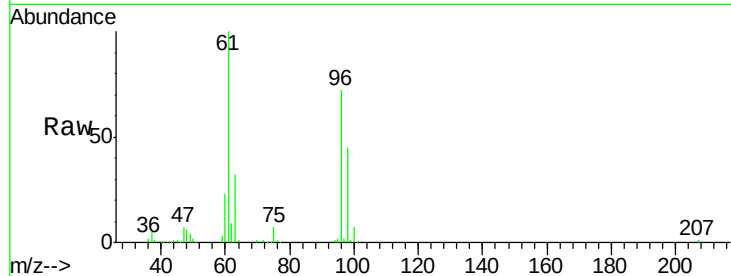
Tot Ion: 96 Resp: 219986

Ion Ratio Lower Upper

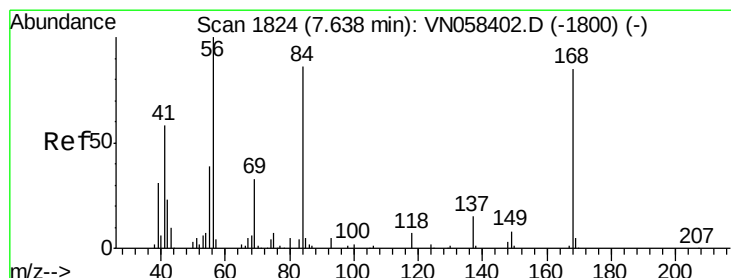
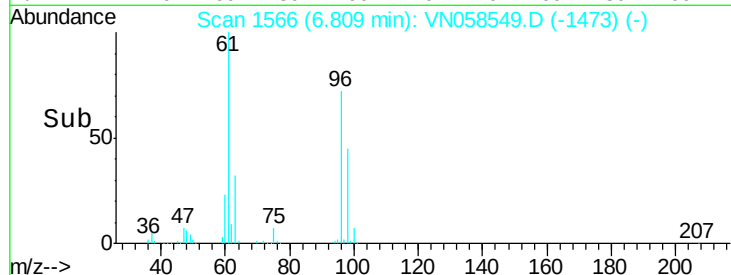
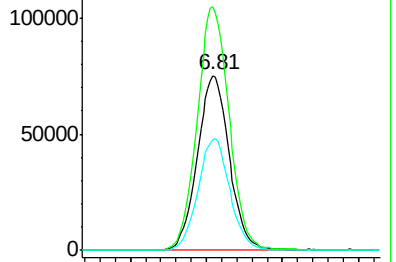
96 100

61 139.2 0.0 318.8

98 63.5 0.0 129.8



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



#31

Cyclohexane

Concen: 1.266 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058549.D

Acq: 4 Oct 2019 18:21

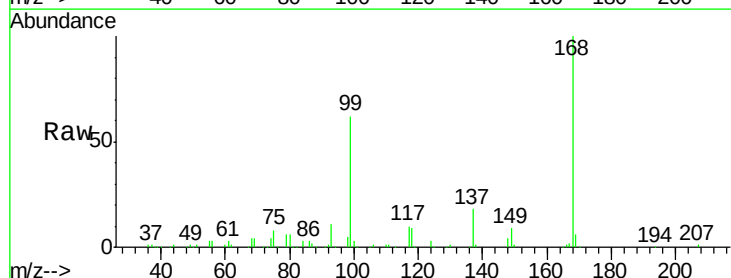
Tgt Ion: 56 Resp: 10861

Ion Ratio Lower Upper

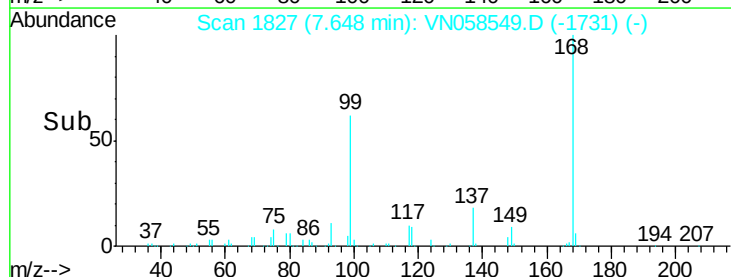
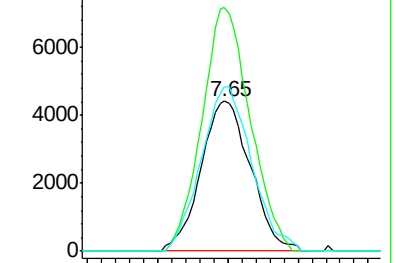
56 100

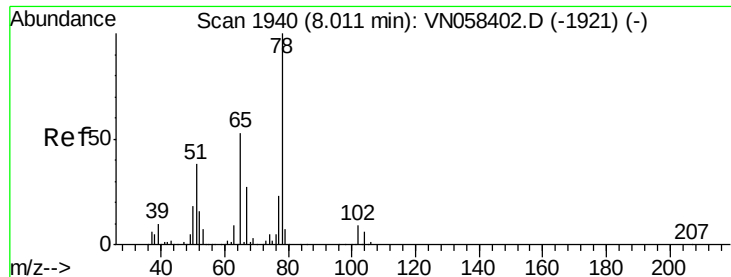
69 162.2 26.2 39.4#

84 109.7 67.6 101.4#



Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

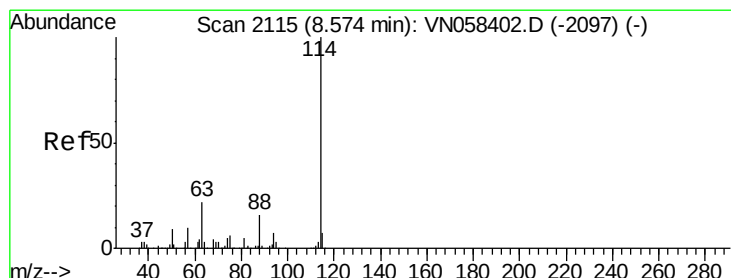
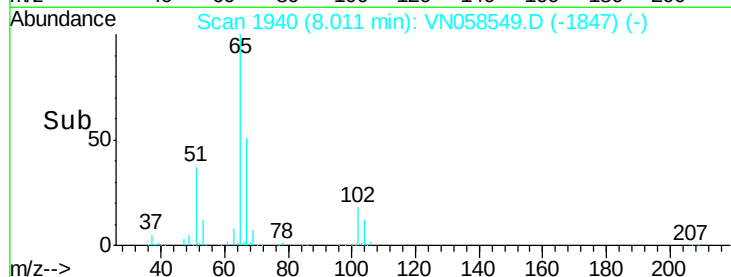
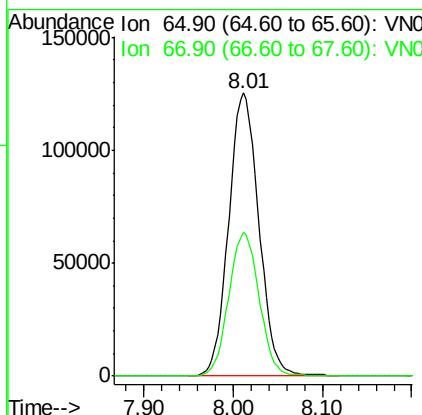
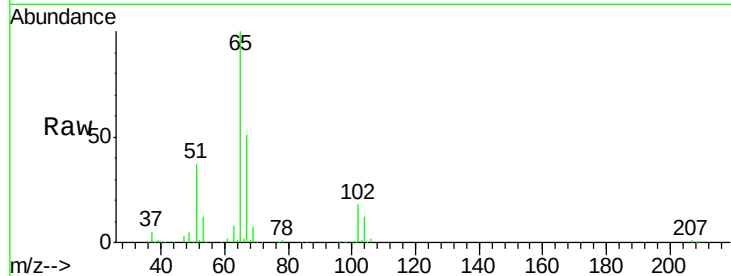




#33
 1,2-Dichloroethane-d4
 Concen: 47.567 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058549.D
 Acq: 4 Oct 2019 18:21

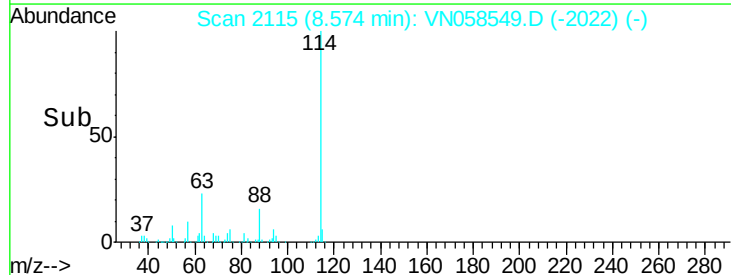
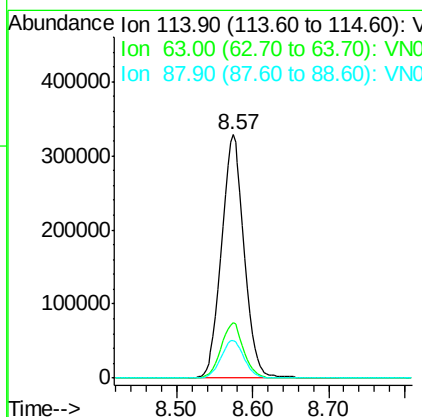
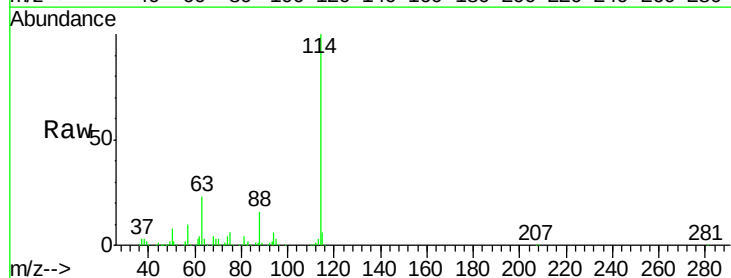
Instrument :
 MSVOA_N
 ClientSampled :

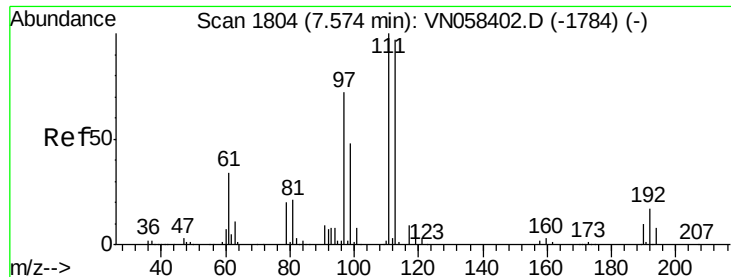
Tot Ion: 65 Resp: 294832
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058549.D
 Acq: 4 Oct 2019 18:21

Tgt Ion: 114 Resp: 681841
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 45.0
 88 15.5 0.0 32.2

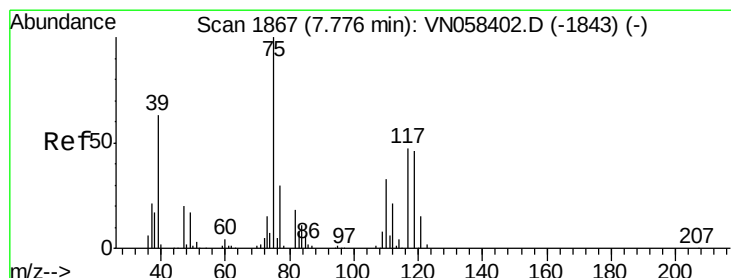
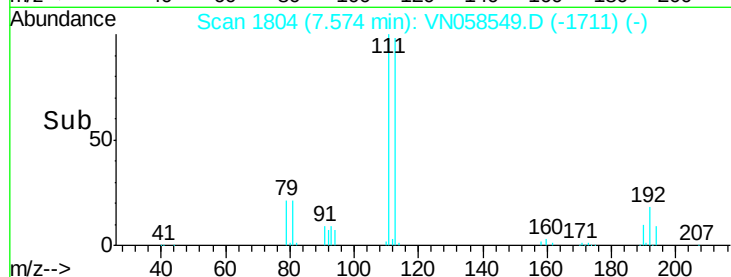
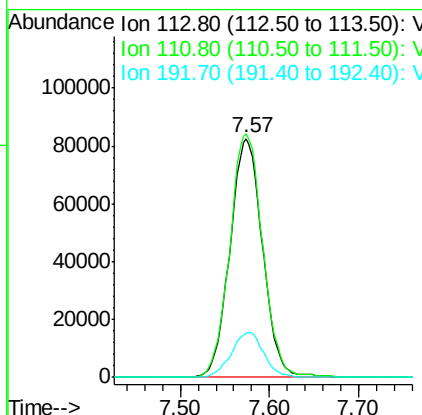
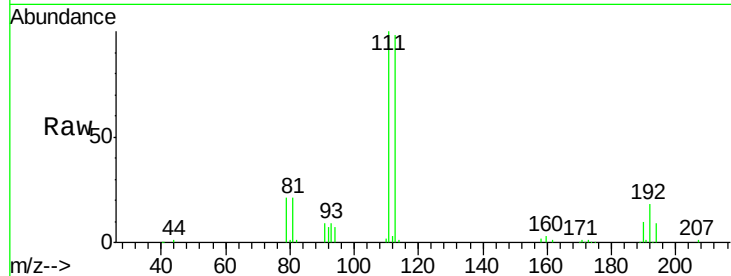




#35
 Dibromofluoromethane
 Concen: 49.975 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058549.D
 Acq: 4 Oct 2019 18:21

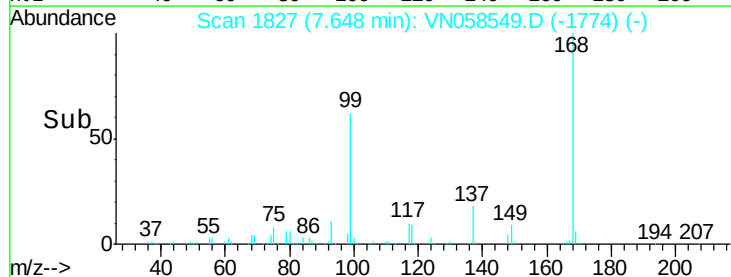
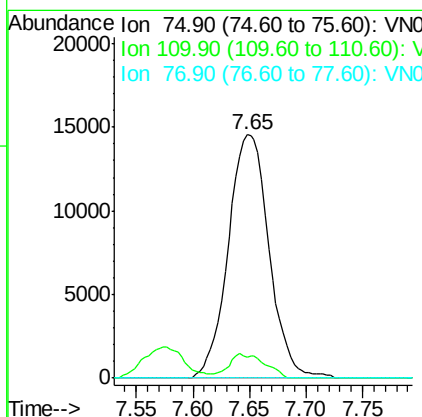
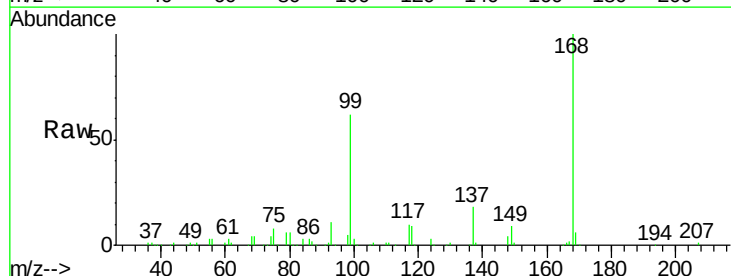
Instrument :
 MSVOA_N
 ClientSampled :

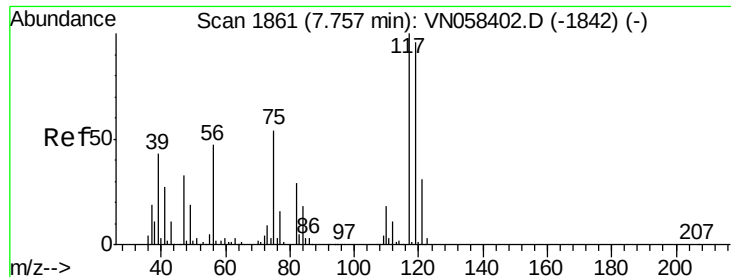
Tot Ion:113 Resp: 208841
 Ion Ratio Lower Upper
 113 100
 111 103.4 83.4 125.2
 192 18.8 14.9 22.3



#36
 1,1-Dichloropropene
 Concen: 5.592 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058549.D
 Acq: 4 Oct 2019 18:21

Tgt Ion: 75 Resp: 36456
 Ion Ratio Lower Upper
 75 100
 110 3.3 16.4 49.2#
 77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 7.416 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058549.D

Acq: 4 Oct 2019 18:21

Instrument :

MSVOA_N

ClientSampleId :

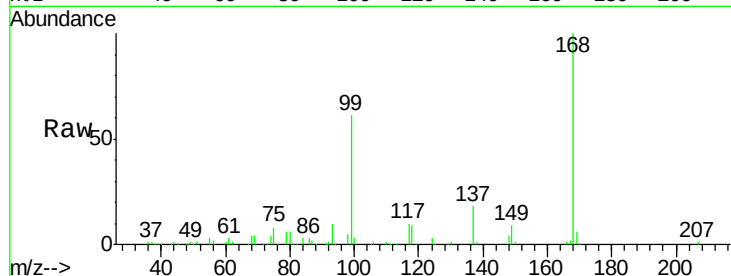
Tot Ion:117 Resp: 43646

Ion Ratio Lower Upper

117 100

119 3.2 76.6 115.0#

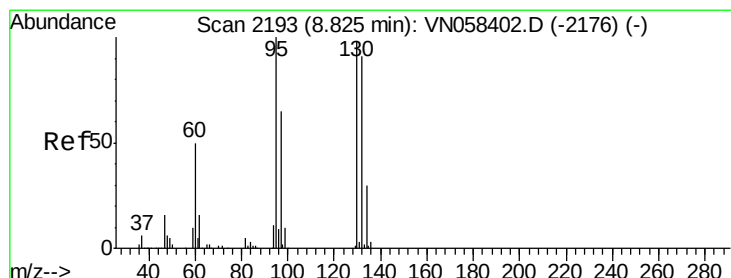
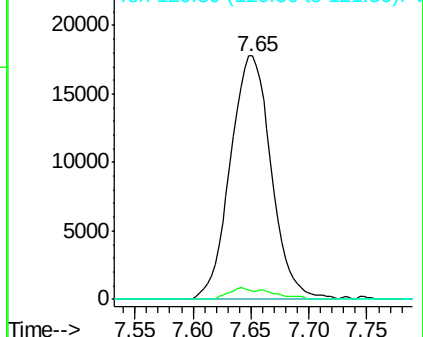
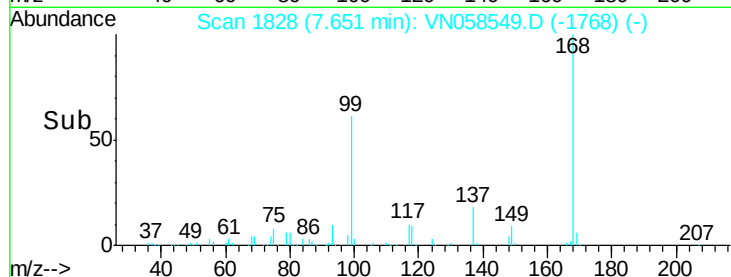
121 0.0 24.7 37.1#



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



#44

Trichloroethene

Concen: 12.799 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058549.D

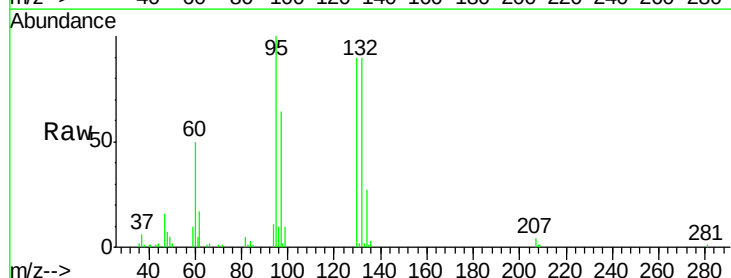
Acq: 4 Oct 2019 18:21

Tgt Ion:130 Resp: 59226

Ion Ratio Lower Upper

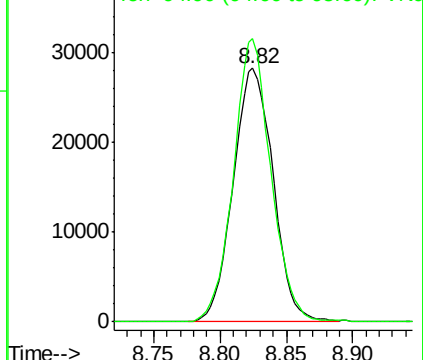
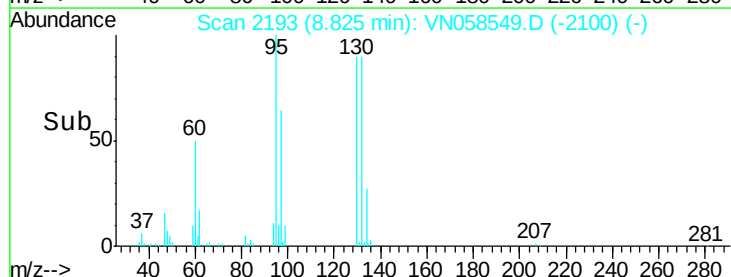
130 100

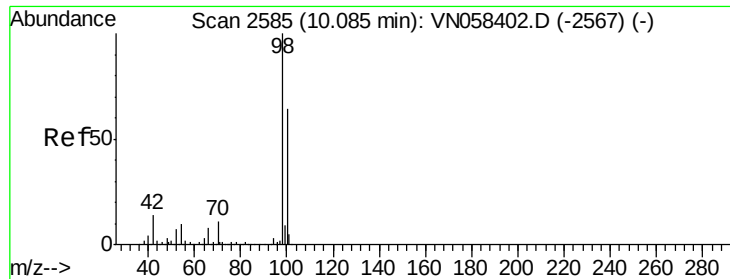
95 111.6 0.0 204.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0





#50

Toluene-d8

Concen: 53.504 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058549.D

Acq: 4 Oct 2019 18:21

Instrument :

MSVOA_N

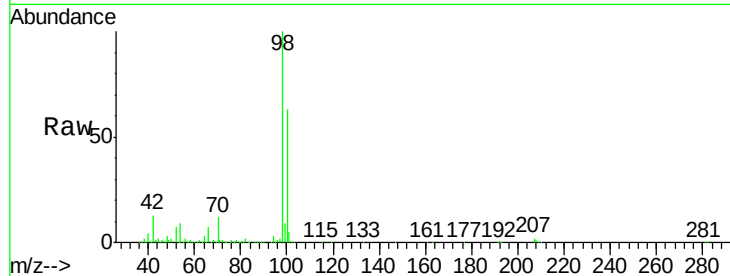
ClientSampled :

Tot Ion: 98 Resp: 875900

Ion Ratio Lower Upper

98 100

100 63.3 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN058402.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN058402.D (-2567) (-)

10.09

500000

400000

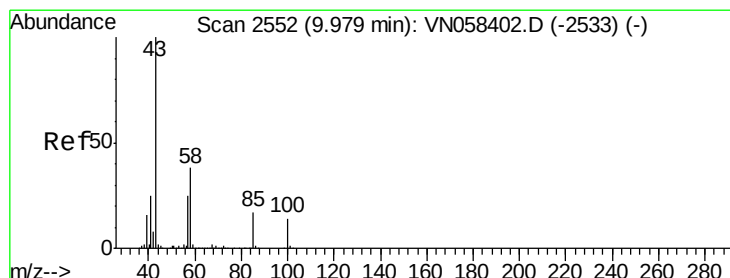
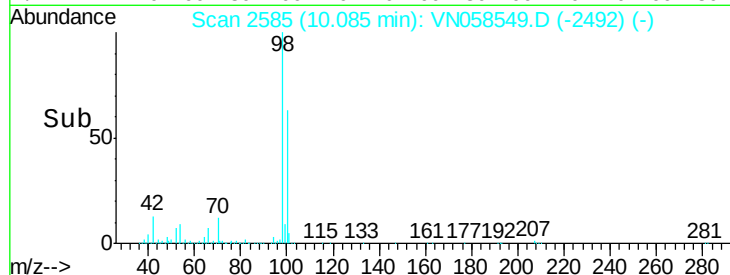
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.680 ug/l

RT: 9.92 min Scan# 2535

Delta R.T. -0.05 min

Lab File: VN058549.D

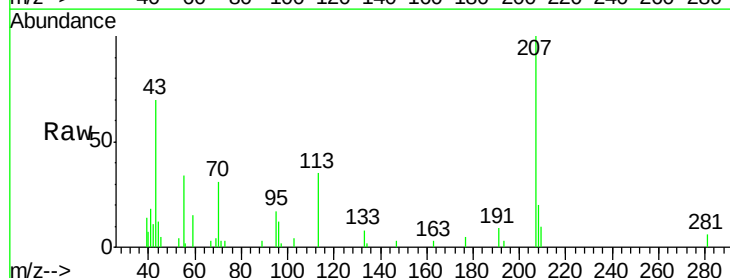
Acq: 4 Oct 2019 18:21

Tgt Ion: 43 Resp: 8971

Ion Ratio Lower Upper

43 100

58 0.0 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VN058402.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN058402.D (-2533) (-)

9.92

5000

4000

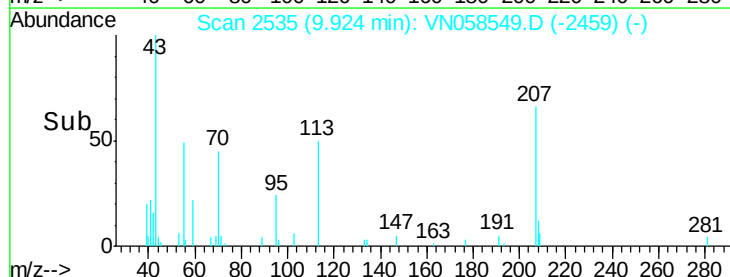
3000

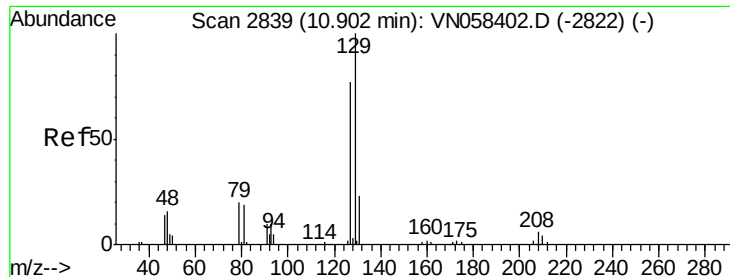
2000

1000

0

Time-->





#60

Dibromochloromethane

Concen: 51.706 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN058549.D

Acq: 4 Oct 2019 18:21

Instrument :

MSVOA_N

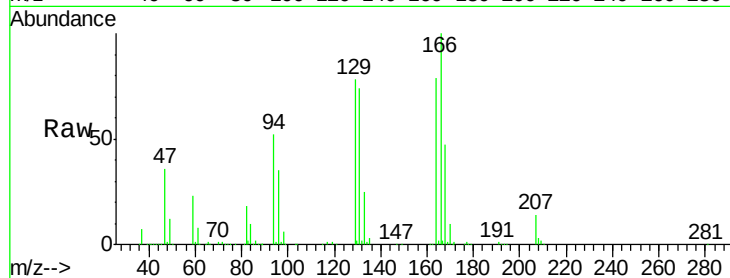
ClientSampleId :

Tot Ion:129 Resp: 229894

Ion Ratio Lower Upper

129 100

127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.63

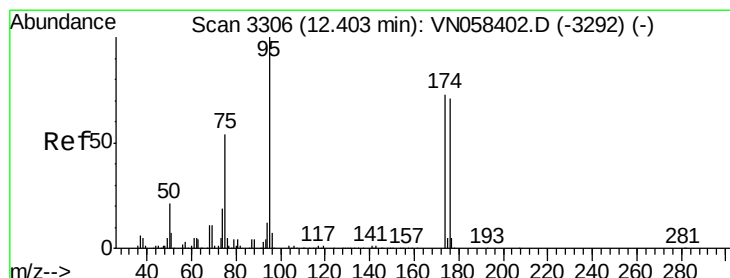
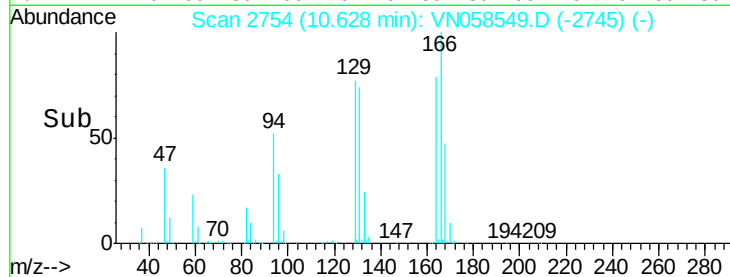
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 46.330 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058549.D

Acq: 4 Oct 2019 18:21

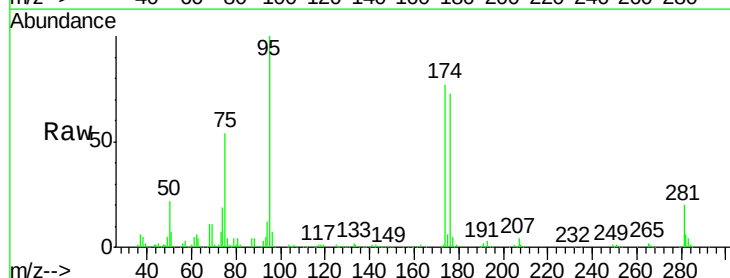
Tgt Ion: 95 Resp: 274240

Ion Ratio Lower Upper

95 100

174 76.2 0.0 150.6

176 73.4 0.0 146.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

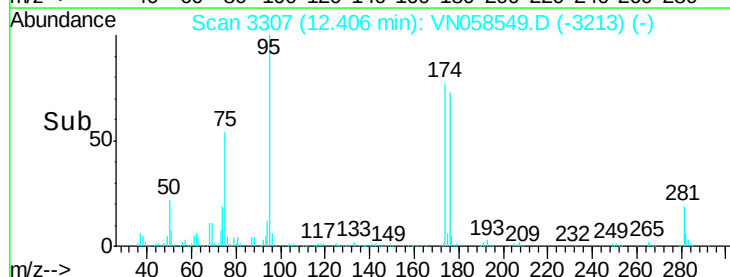
150000

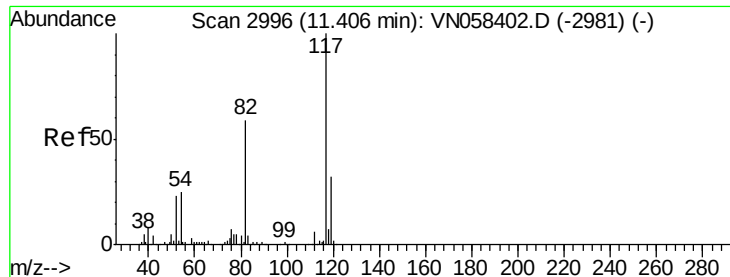
100000

50000

0

Time-->

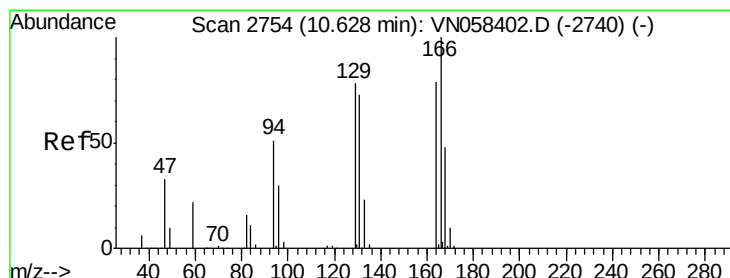
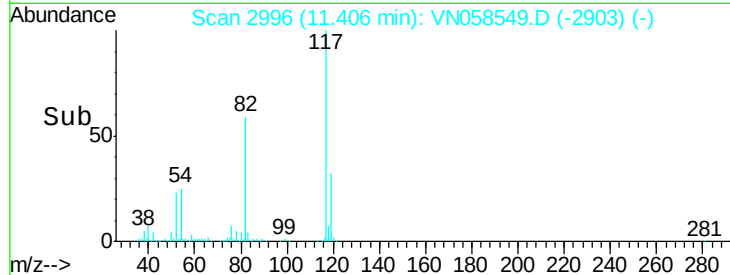
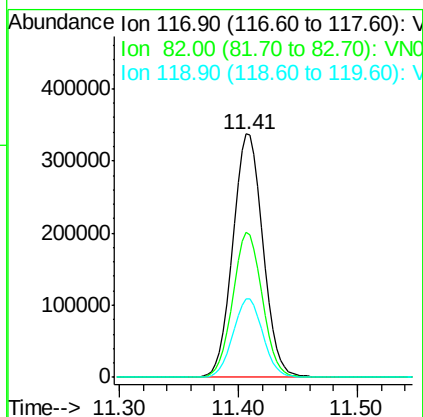
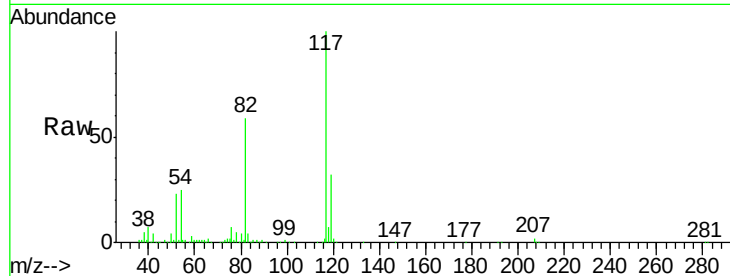




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058549.D
Acq: 4 Oct 2019 18:21

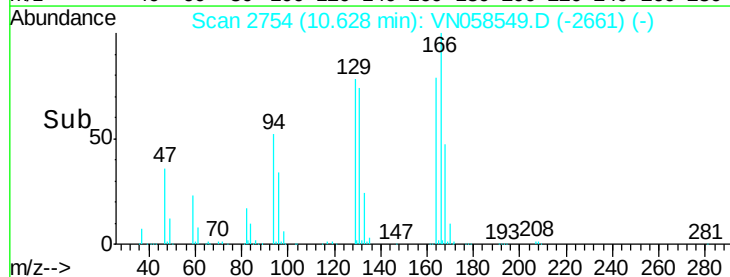
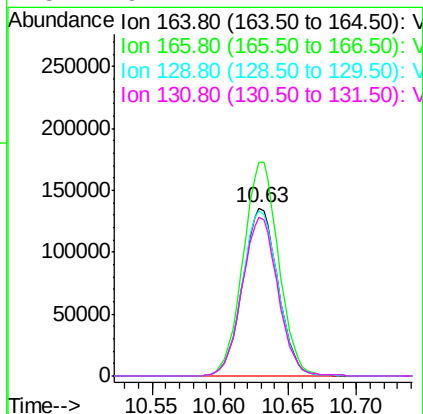
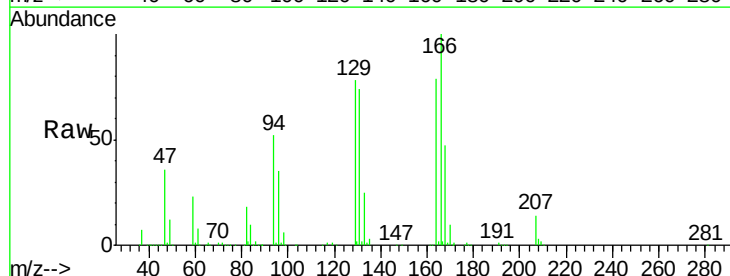
Instrument :
MSVOA_N
ClientSampleId :

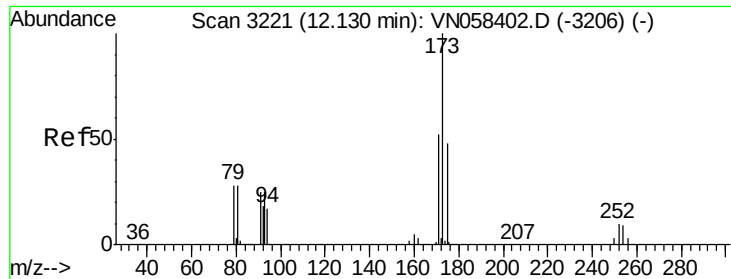
Tot Ion:117 Resp: 591812
Ion Ratio Lower Upper
117 100
82 59.5 47.4 71.0
119 32.2 25.5 38.3



#64
Tetrachloroethene
Concen: 64.921 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN058549.D
Acq: 4 Oct 2019 18:21

Tgt Ion:164 Resp: 244101
Ion Ratio Lower Upper
164 100
166 126.8 101.1 151.7
129 98.5 79.2 118.8
131 94.2 74.1 111.1

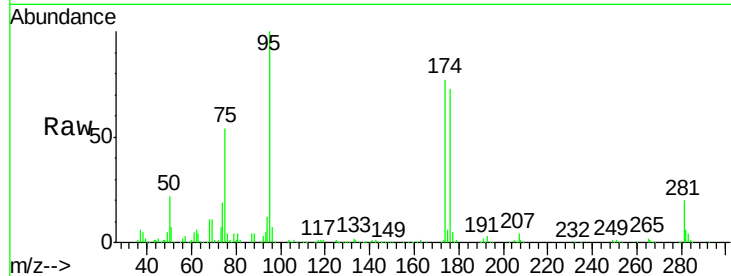




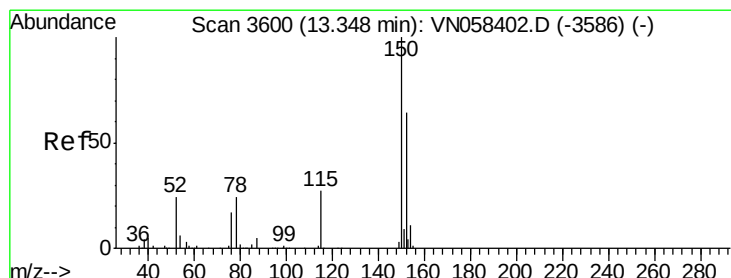
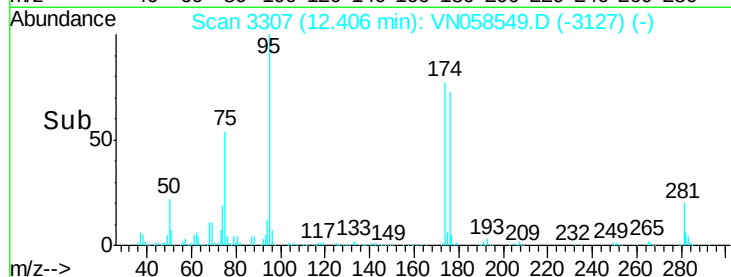
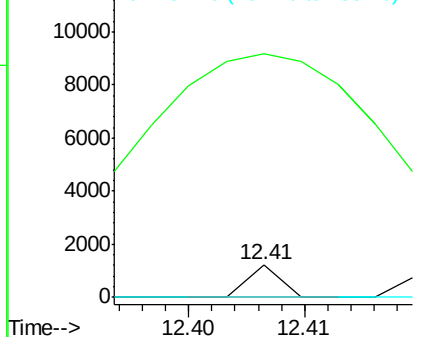
#71
Bromoform
Concen: 0.780 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN058549.D
Acq: 4 Oct 2019 18:21

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:173 Resp: 236
Ion Ratio Lower Upper
173 100
175 5632.6 24.3 73.0#
254 0.0 0.1 0.1#

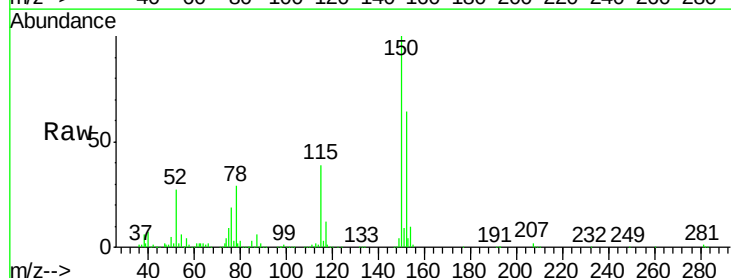


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

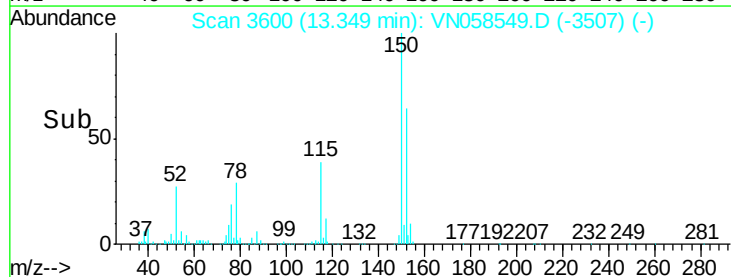
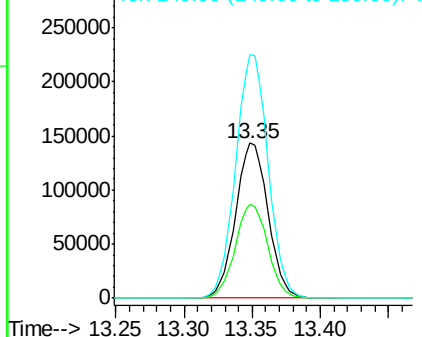


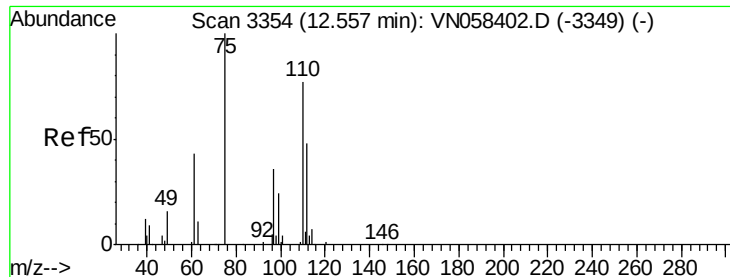
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058549.D
Acq: 4 Oct 2019 18:21

Tgt Ion:152 Resp: 237251
Ion Ratio Lower Upper
152 100
115 60.8 30.0 90.0
150 157.3 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: 35.113 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058549.D

Acq: 4 Oct 2019 18:21

Instrument :

MSVOA_N

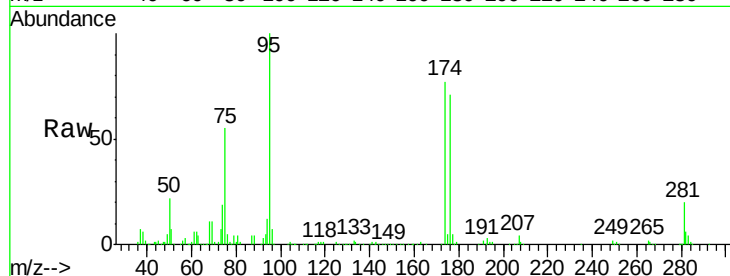
ClientSampled :

Tot Ion: 75 Resp: 152157

Ion Ratio Lower Upper

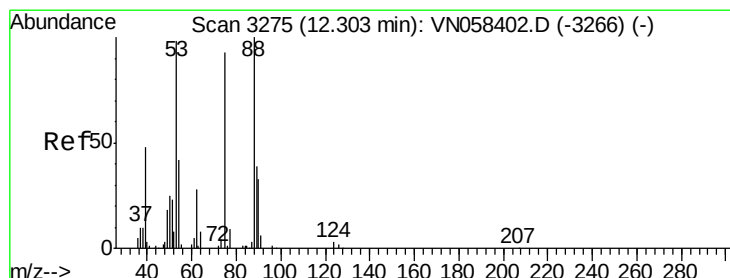
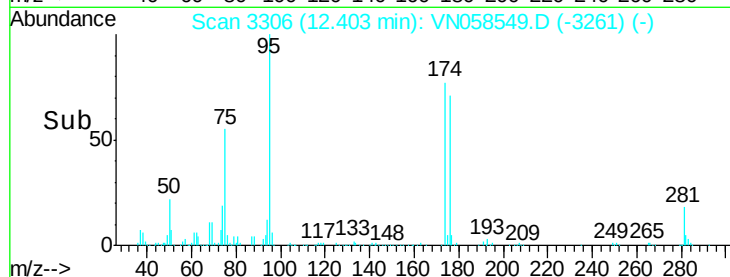
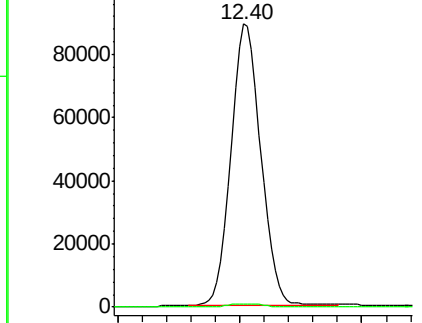
75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 106.641 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058549.D

Acq: 4 Oct 2019 18:21

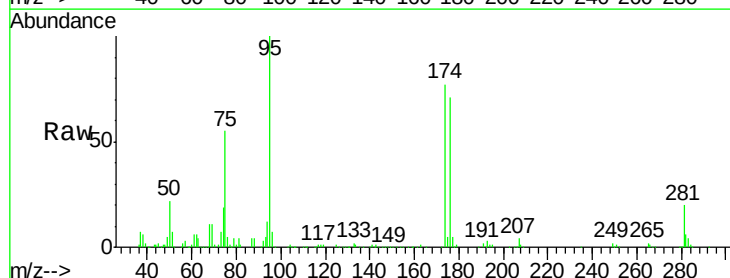
Tgt Ion: 75 Resp: 152157

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

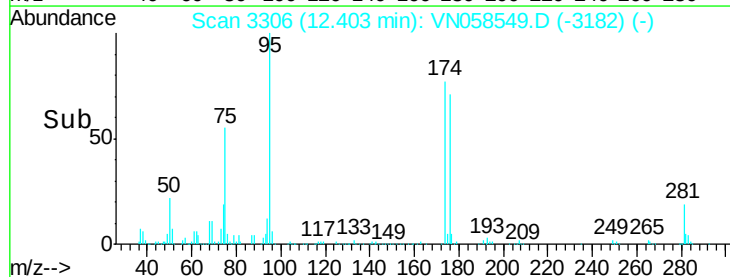
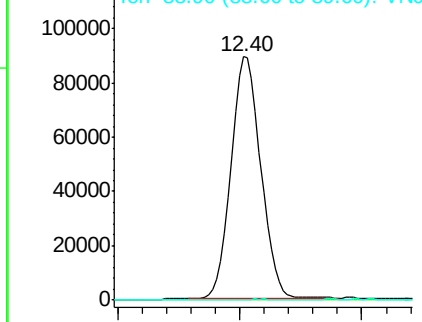
89 0.1 35.0 52.4#

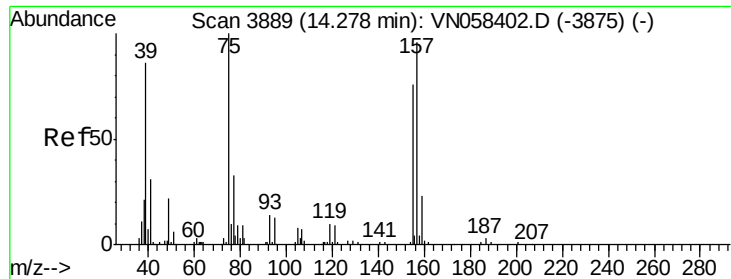


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.412 ug/l

RT: 14.28 min Scan# 3889

Delta R.T. 0.00 min

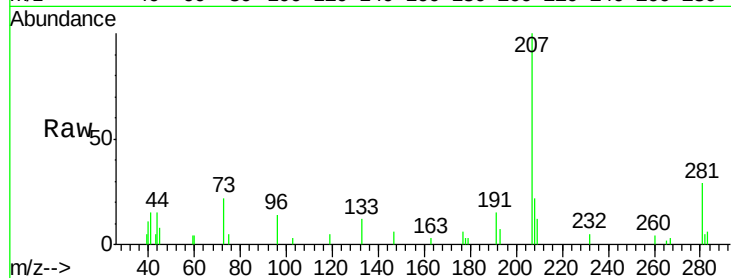
Lab File: VN058549.D

Acq: 4 Oct 2019 18:21

Instrument :

MSVOA_N

ClientSampleId :



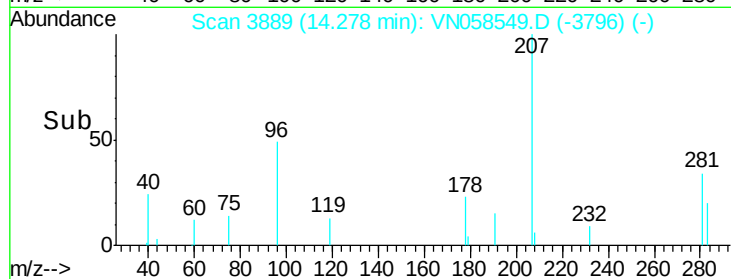
Tot Ion: 75 Resp: 377

Ion Ratio Lower Upper

75 100

155 0.0 39.2 117.6#

157 0.0 48.7 146.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

Time-->

14.26 14.28

14.28

300

200

100

0