

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\
 Data File : VN058304.D
 Acq On : 23 Sep 2019 19:35
 Operator : JC/SP
 Sample : K4939-05ME
 Misc : 6.23g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 24 01:36:17 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	456621	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	743644	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	625068	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	261140	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	339006	53.30	ug/l	0.00
Spiked Amount						
			Recovery	=	106.60%	
35) Dibromofluoromethane	7.57	113	221846	49.07	ug/l	0.00
Spiked Amount						
			Recovery	=	98.14%	
50) Toluene-d8	10.08	98	937700	53.24	ug/l	0.00
Spiked Amount						
			Recovery	=	106.48%	
62) 4-Bromofluorobenzene	12.41	95	299842	45.83	ug/l	0.00
Spiked Amount						
			Recovery	=	91.66%	

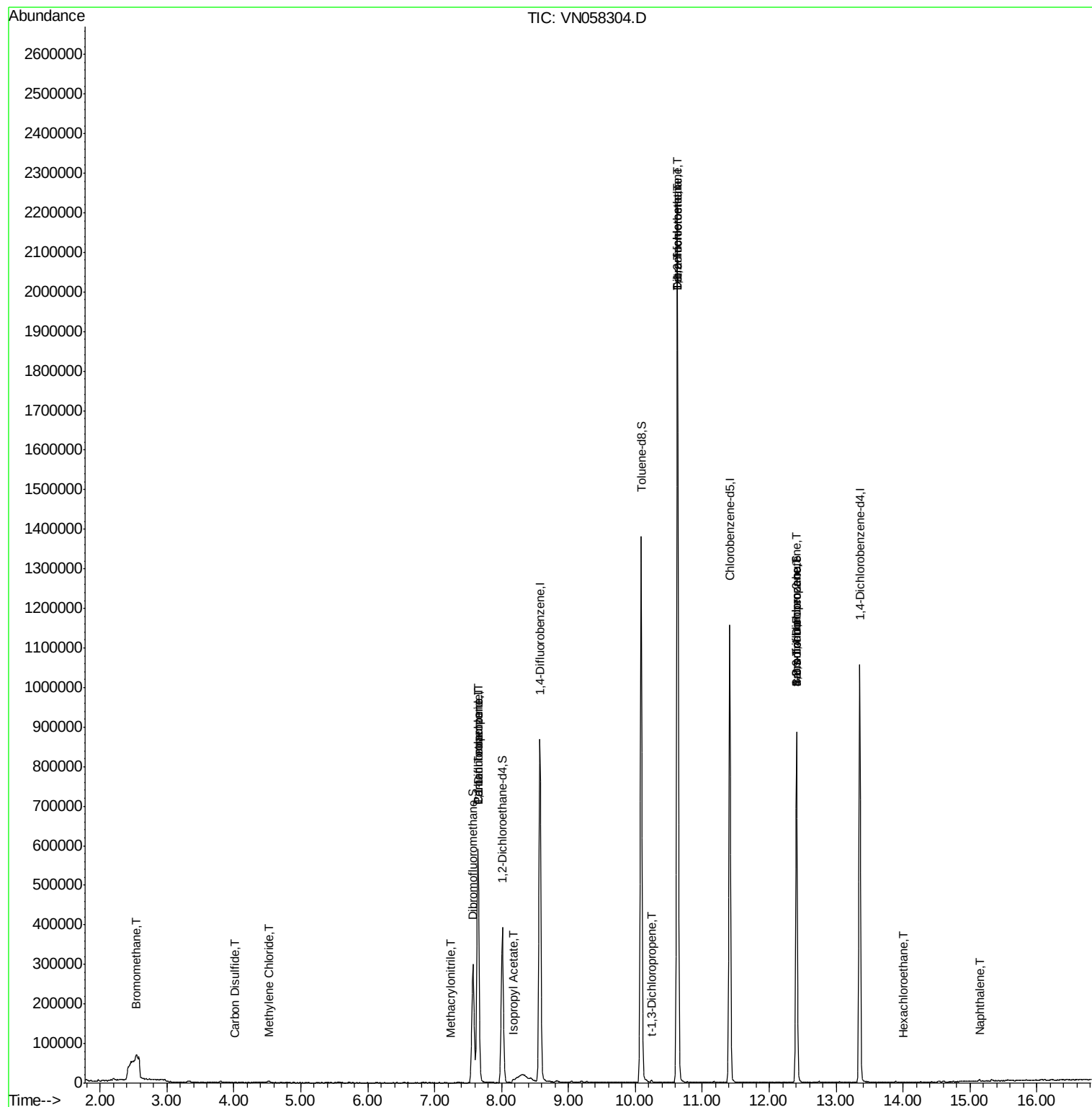
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	305	Below Cal	#	42
4) Vinyl Chloride	2.37	62	67	Below Cal	#	43
5) Bromomethane	2.55	94	188	0.833	ug/l #	50
6) Chloroethane	2.68	64	120	Below Cal	#	44
17) Carbon Disulfide	4.01	76	425	0.378	ug/l #	74
20) Methylene Chloride	4.52	84	2205	0.363	ug/l #	92
31) Cyclohexane	7.65	56	11696	Below Cal	#	2
36) 1,1-Dichloropropene	7.65	75	38662	7.209	ug/l #	50
38) Carbon Tetrachloride	7.65	117	47986	8.901	ug/l #	15
41) Methacrylonitrile	7.23	41	31	0.922	ug/l #	100
43) Isopropyl Acetate	8.17	43	3461	0.333	ug/l #	57
53) t-1,3-Dichloropropene	10.24	75	1873	0.293	ug/l #	44
55) 1,1,2-Trichloroethane	10.63	97	4434	0.973	ug/l #	1
60) Dibromochloromethane	10.63	129	443832	101.270	ug/l #	11
64) Tetrachloroethene	10.63	164	474953	155.873	ug/l	99
71) Bromoform	12.40	173	2074	4.246	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	163235	34.927	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	163235	97.716	ug/l #	5
90) Hexachloroethane	14.00	117	68	2.848	ug/l #	12
95) Naphthalene	15.14	128	4016	0.322	ug/l #	85

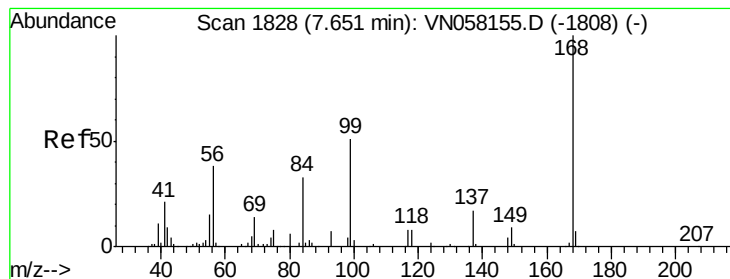
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1827

Delta R.T. -0.00 min

Lab File: VN058304.D

Acq: 23 Sep 2019 19:35

Instrument :

MSVOA_N

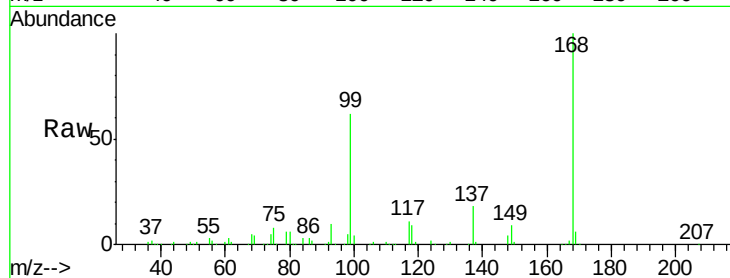
ClientSampled :

Tot Ion:168 Resp: 456621

Ion Ratio Lower Upper

168 100

99 62.0 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

200000

150000

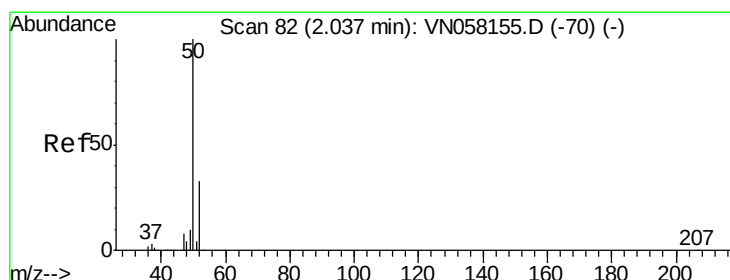
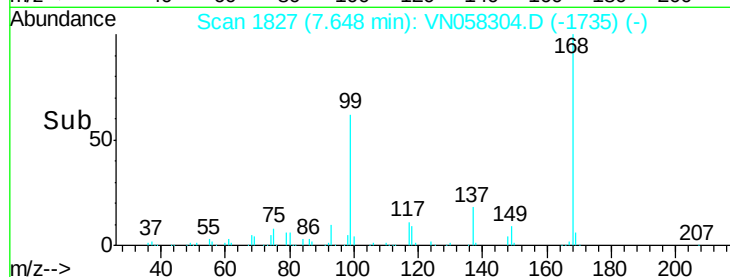
100000

50000

0

7.60 7.70

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 79

Delta R.T. -0.01 min

Lab File: VN058304.D

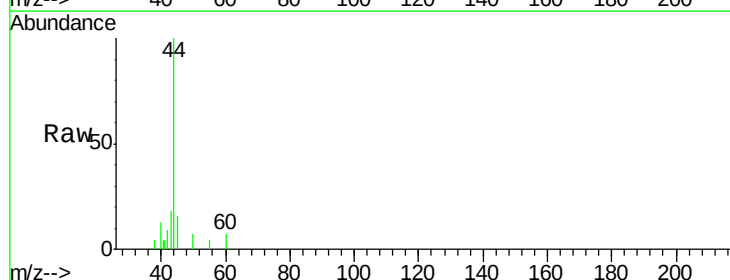
Acq: 23 Sep 2019 19:35

Tgt Ion: 50 Resp: 305

Ion Ratio Lower Upper

50 100

52 0.0 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.03

300

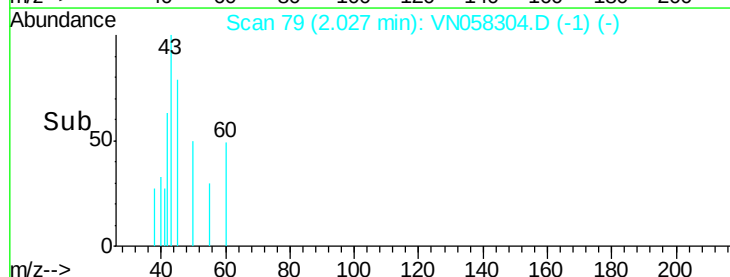
200

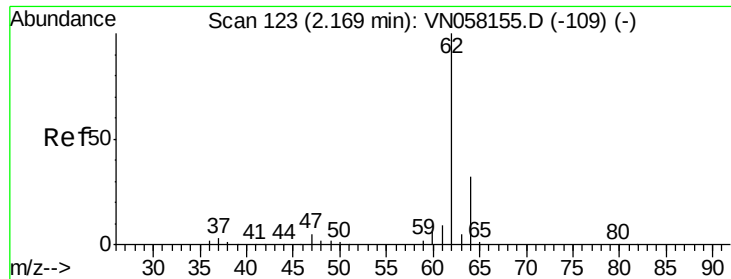
100

0

2.01 2.02 2.03 2.04

Time-->





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.37 min Scan# 186

Delta R.T. 0.20 min

Lab File: VN058304.D

Acq: 23 Sep 2019 19:35

Instrument :

MSVOA_N

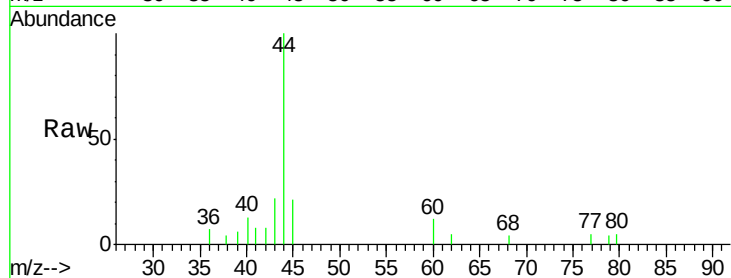
ClientSampled :

Tot Ion: 62 Resp: 67

Ion Ratio Lower Upper

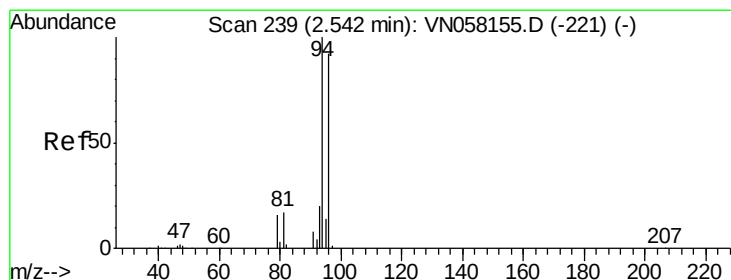
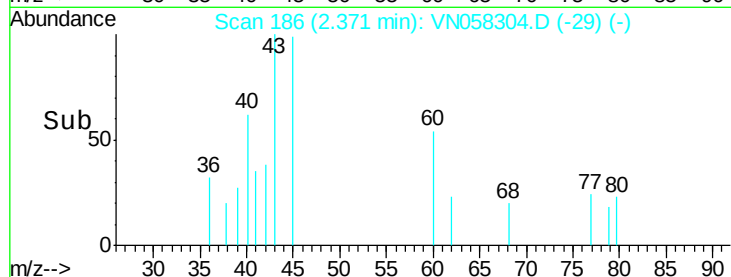
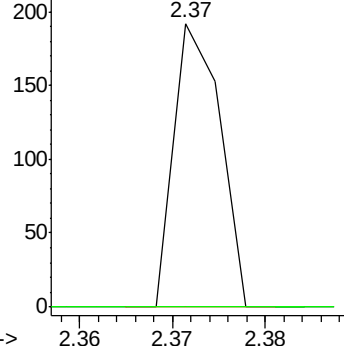
62 100

64 0.0 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO



#5

Bromomethane

Concen: 0.833 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.01 min

Lab File: VN058304.D

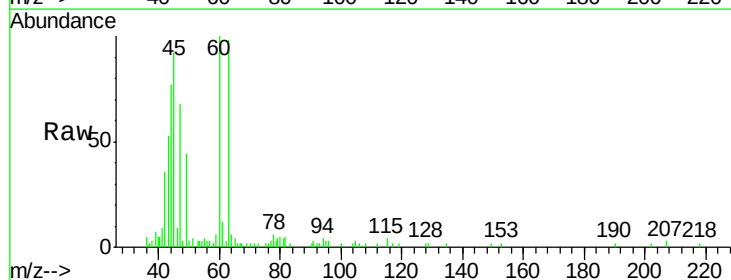
Acq: 23 Sep 2019 19:35

Tgt Ion: 94 Resp: 188

Ion Ratio Lower Upper

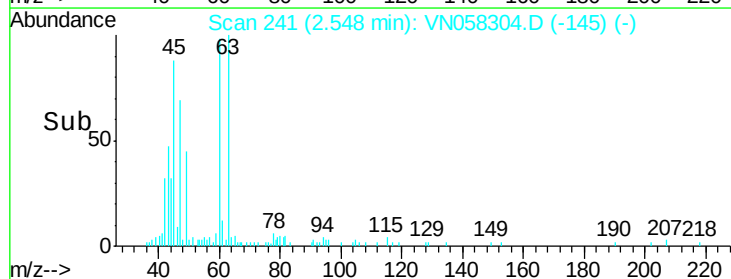
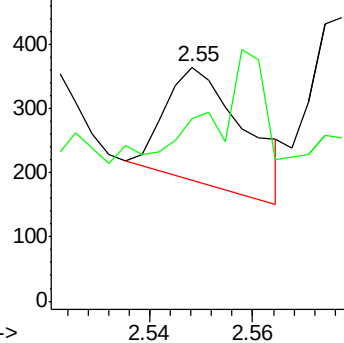
94 100

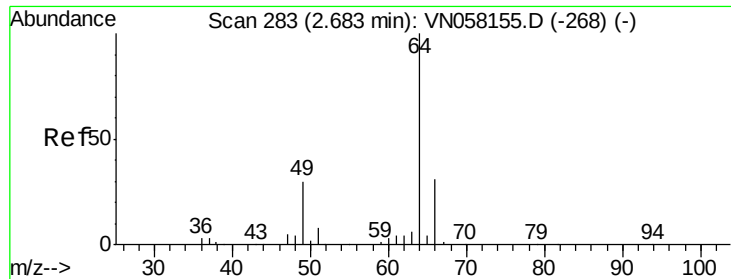
96 44.2 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO





#6

Chloroethane

Concen: Below Cal

RT: 2.68 min Scan# 281

Delta R.T. -0.01 min

Lab File: VN058304.D

Acq: 23 Sep 2019 19:35

Instrument :

MSVOA_N

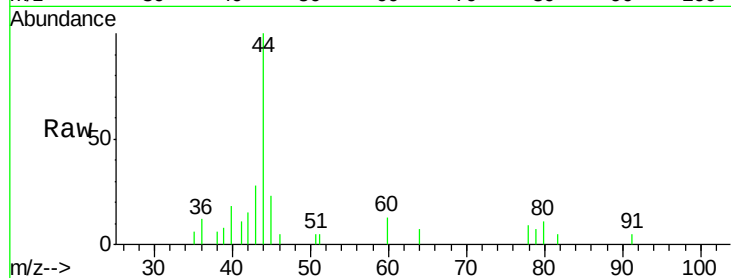
ClientSampled :

Tot Ion: 64 Resp: 120

Ion Ratio Lower Upper

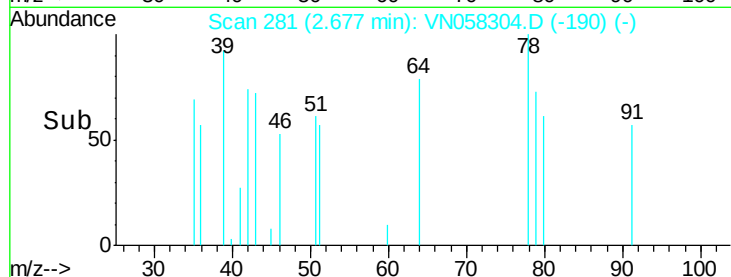
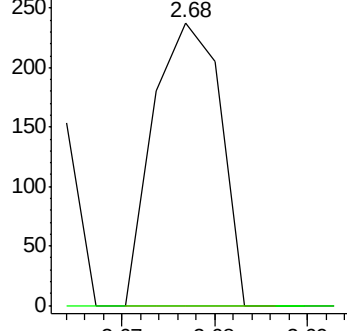
64 100

66 0.0 24.6 37.0#

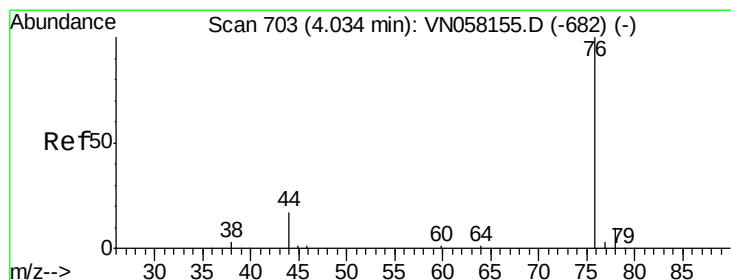


Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



Time-->



#17

Carbon Disulfide

Concen: 0.378 ug/l

RT: 4.01 min Scan# 696

Delta R.T. -0.02 min

Lab File: VN058304.D

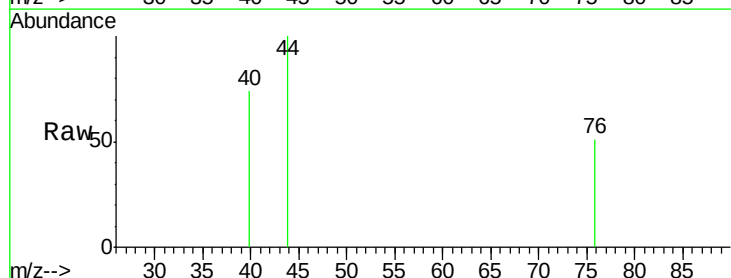
Acq: 23 Sep 2019 19:35

Tgt Ion: 76 Resp: 425

Ion Ratio Lower Upper

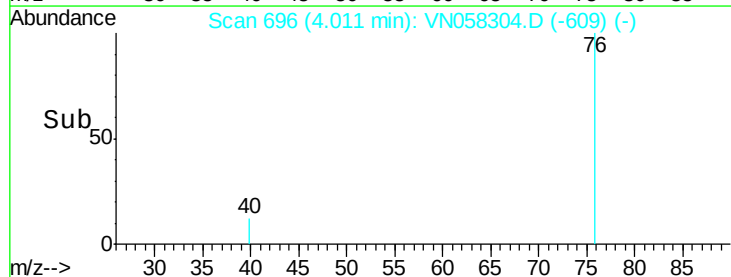
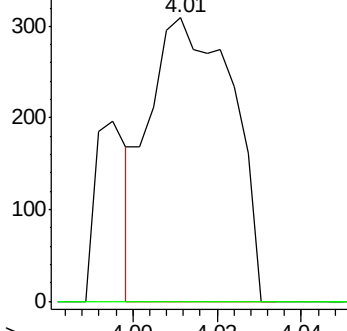
76 100

78 0.0 7.7 11.5#

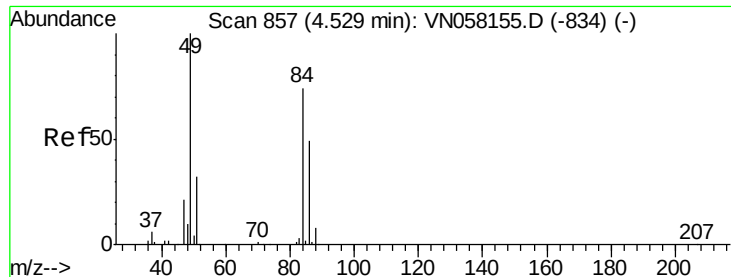


Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



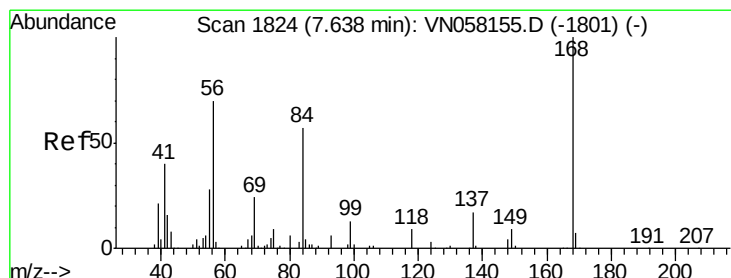
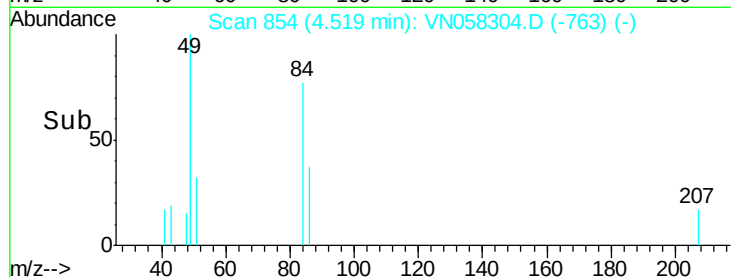
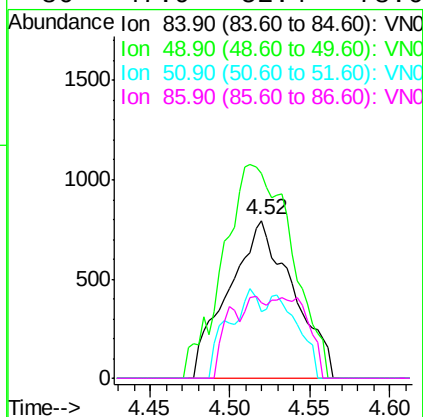
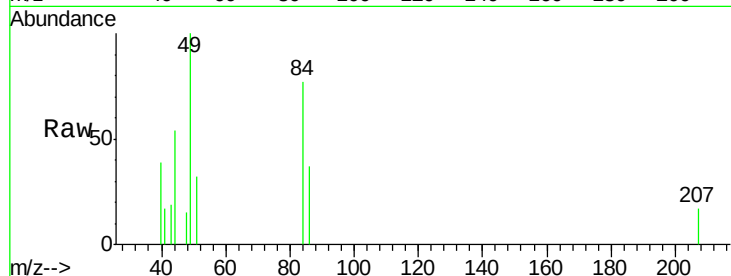
Time-->



#20
Methylene Chloride
Concen: 0.363 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.01 min
Lab File: VN058304.D
Acq: 23 Sep 2019 19:35

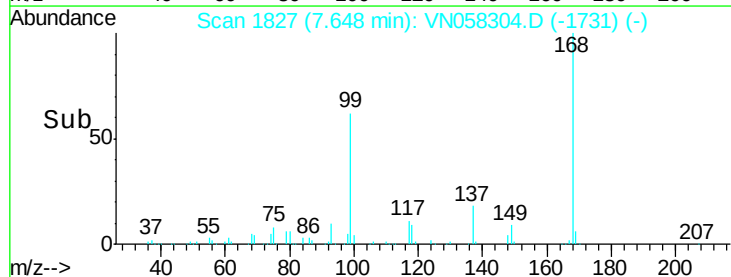
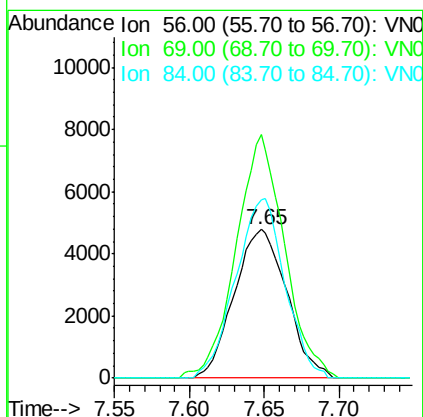
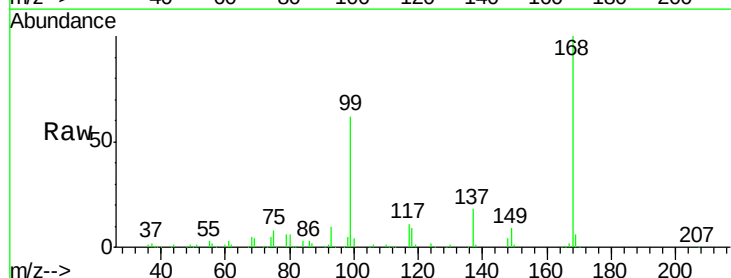
Instrument :
MSVOA_N
ClientSampled :

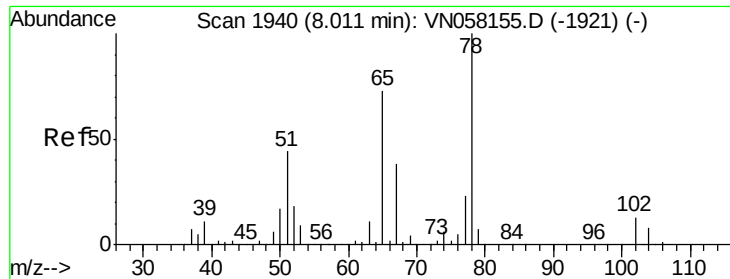
Tot Ion: 84 Resp: 2205
Ion Ratio Lower Upper
84 100
49 129.6 107.5 161.3
51 42.1 33.9 50.9
86 47.9 52.4 78.6#



#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058304.D
Acq: 23 Sep 2019 19:35

Tgt Ion: 56 Resp: 11696
Ion Ratio Lower Upper
56 100
69 164.1 27.3 40.9#
84 119.9 65.0 97.4#

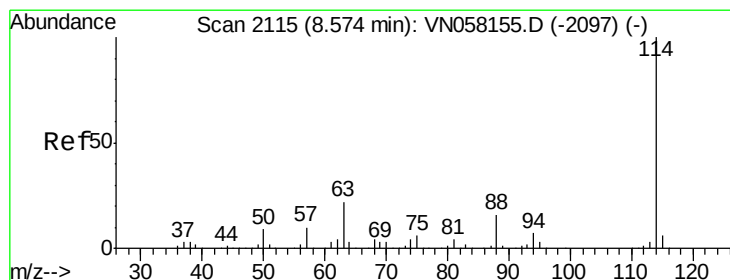
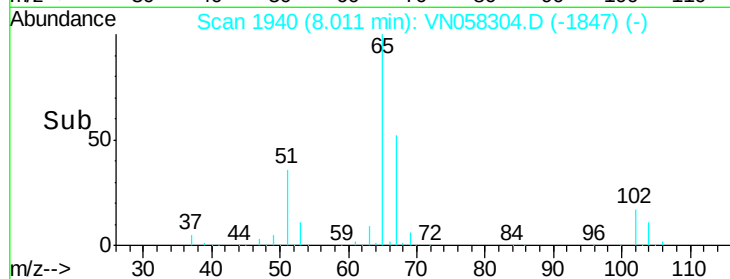
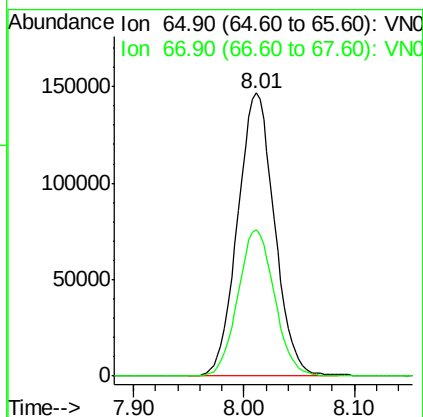
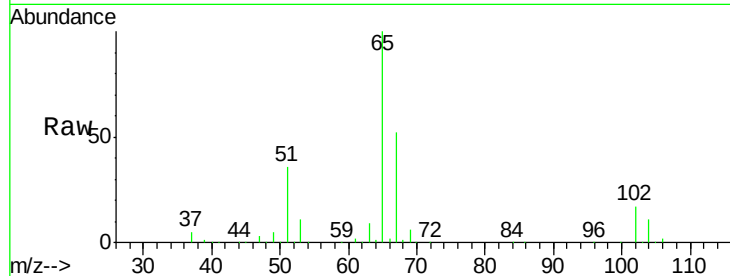




#33
 1,2-Dichloroethane-d4
 Concen: 53.304 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058304.D
 Acq: 23 Sep 2019 19:35

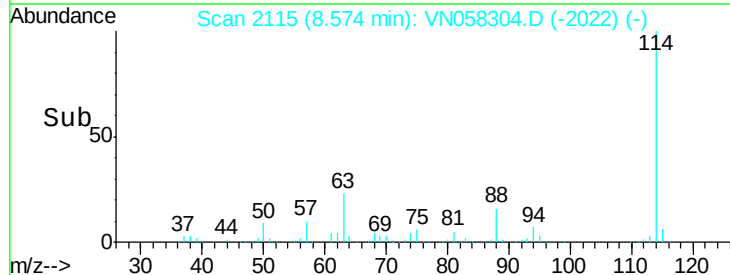
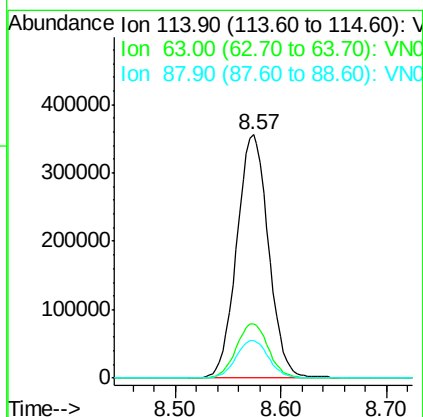
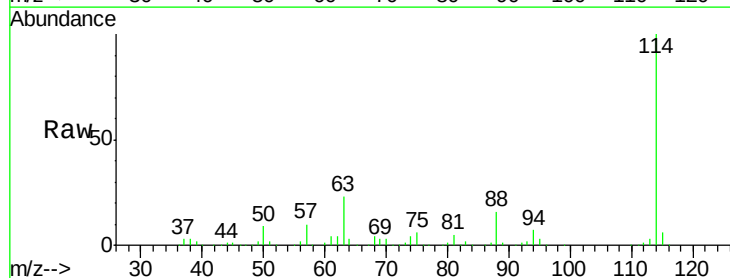
Instrument :
 MSVOA_N
 ClientSampleId :

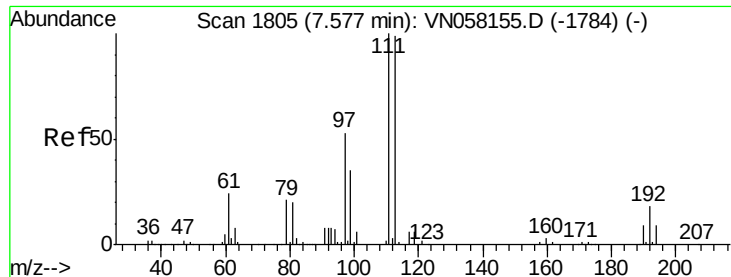
Tot Ion: 65 Resp: 339006
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058304.D
 Acq: 23 Sep 2019 19:35

Tgt Ion: 114 Resp: 743644
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 44.2
 88 15.6 0.0 31.6

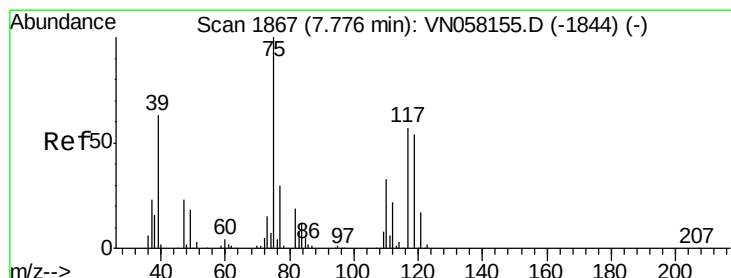
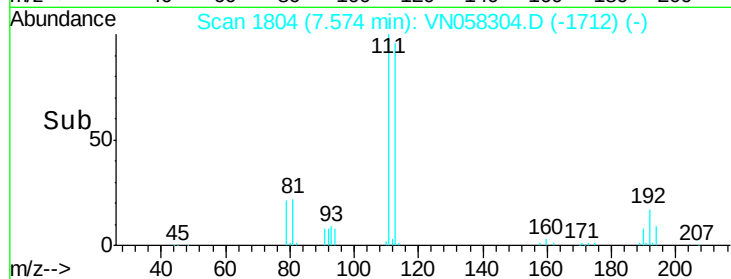
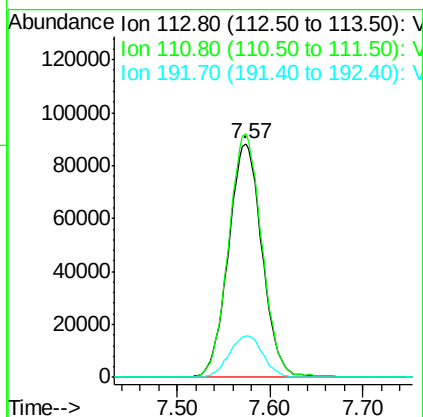
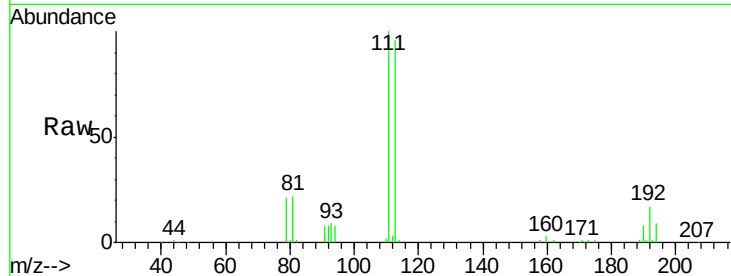




#35
 Dibromofluoromethane
 Concen: 49.073 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058304.D
 Acq: 23 Sep 2019 19:35

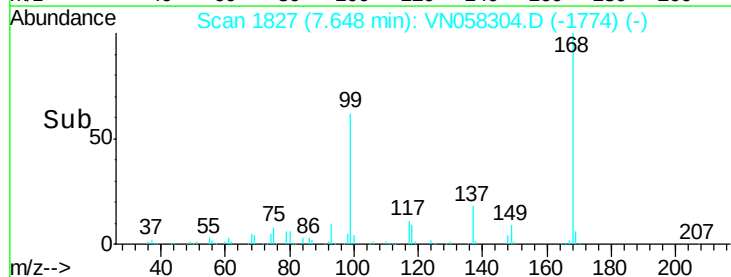
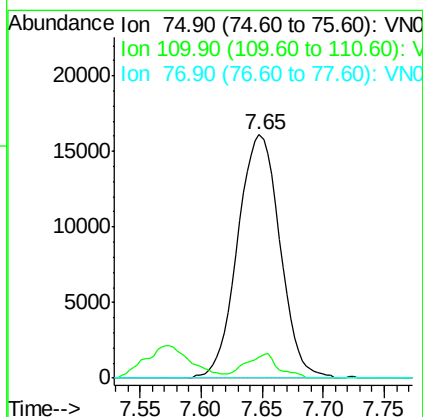
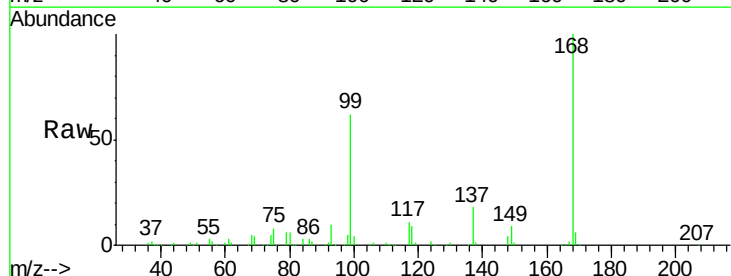
Instrument :
 MSVOA_N
 ClientSampleId :

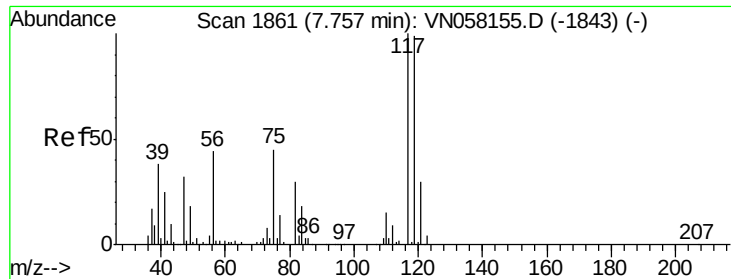
Tot Ion:113 Resp: 221846
 Ion Ratio Lower Upper
 113 100
 111 103.7 81.8 122.6
 192 18.0 14.5 21.7



#36
 1,1-Dichloropropene
 Concen: 7.209 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058304.D
 Acq: 23 Sep 2019 19:35

Tgt Ion: 75 Resp: 38662
 Ion Ratio Lower Upper
 75 100
 110 7.9 16.6 49.7#
 77 0.0 24.3 36.5#

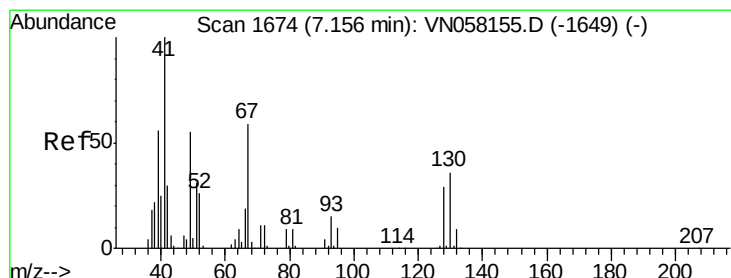
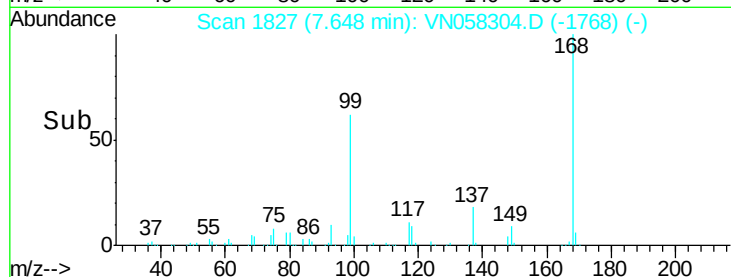
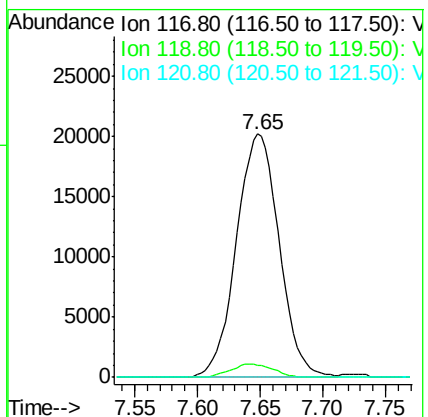
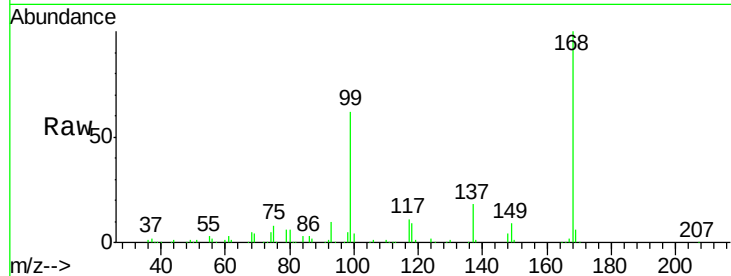




#38
Carbon Tetrachloride
Concen: 8.901 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.11 min
Lab File: VN058304.D
Acq: 23 Sep 2019 19:35

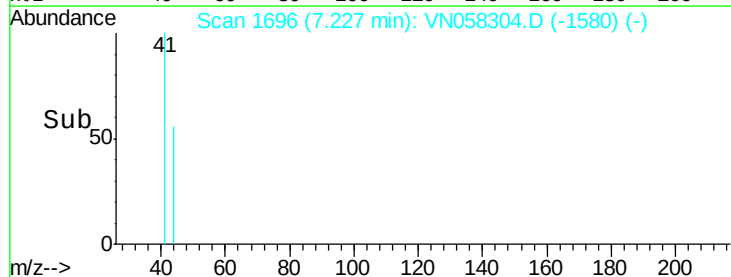
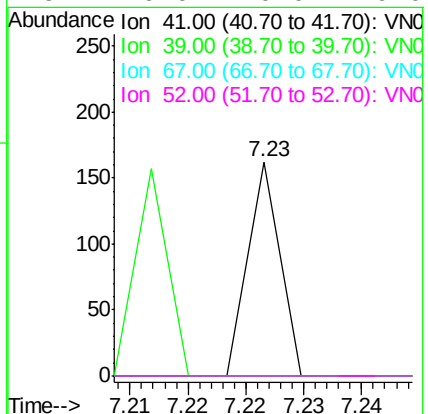
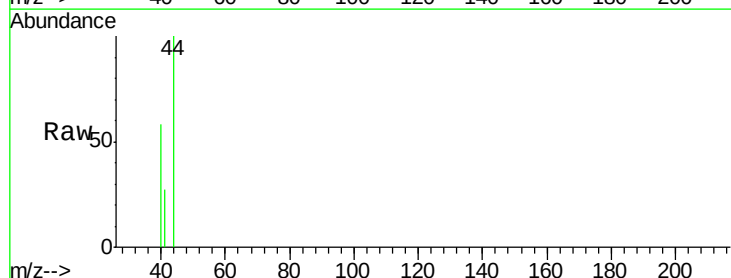
Instrument :
MSVOA_N
ClientSampled :

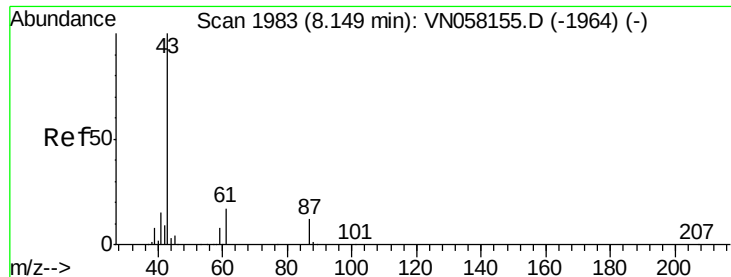
Tot Ion:117 Resp: 47986
Ion Ratio Lower Upper
117 100
119 5.2 78.6 117.8#
121 0.0 24.1 36.1#



#41
Methacrylonitrile
Concen: 0.922 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.07 min
Lab File: VN058304.D
Acq: 23 Sep 2019 19:35

Tgt Ion: 41 Resp: 31
Ion Ratio Lower Upper
41 100
39 96.8 0.0 0.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0





#43

Isopropyl Acetate

Concen: 0.333 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.02 min

Lab File: VN058304.D

Acq: 23 Sep 2019 19:35

Instrument :

MSVOA_N

ClientSampleId :

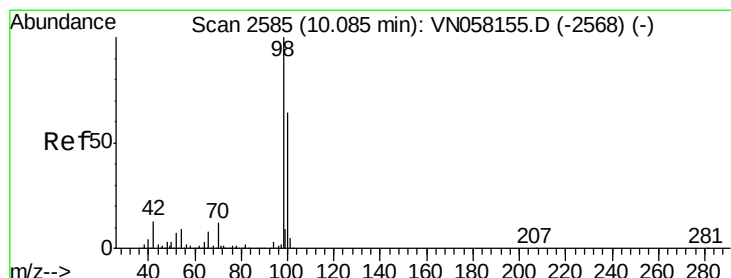
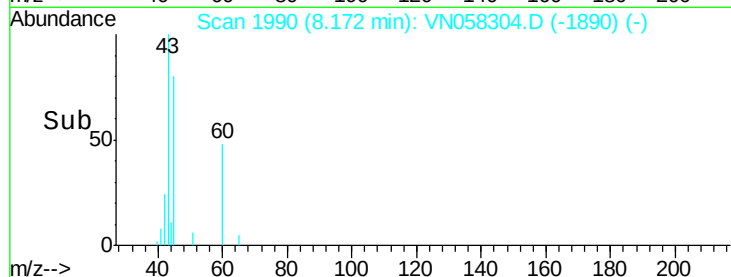
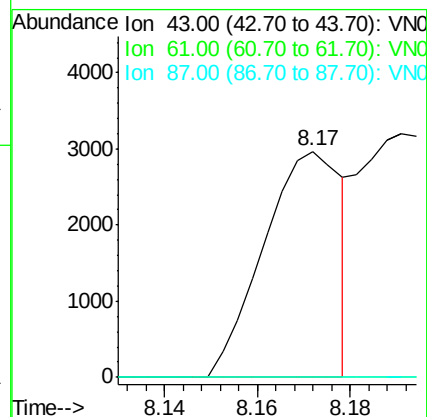
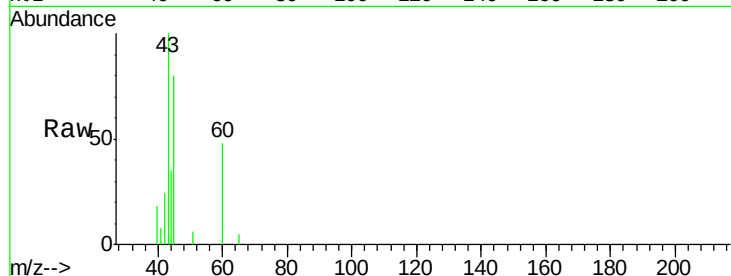
Tot Ion: 43 Resp: 3461

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

87 0.0 9.4 14.2#



#50

Toluene-d8

Concen: 53.237 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058304.D

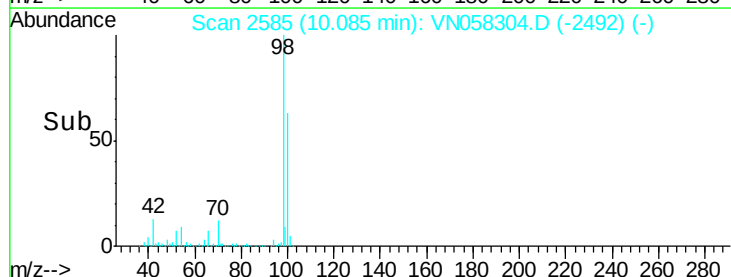
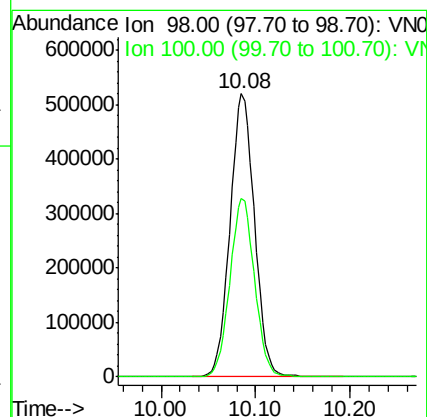
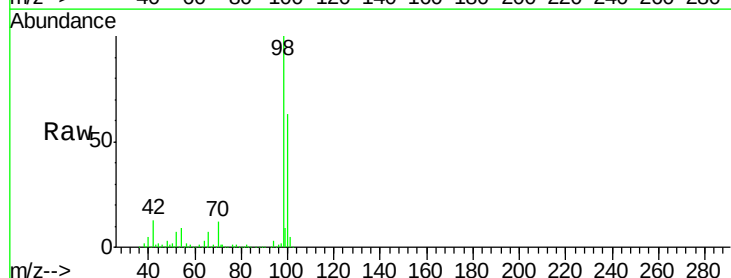
Acq: 23 Sep 2019 19:35

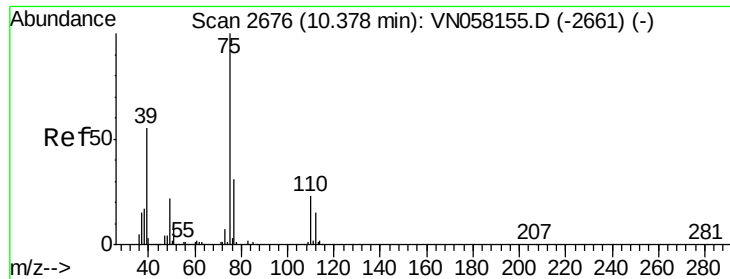
Tgt Ion: 98 Resp: 937700

Ion Ratio Lower Upper

98 100

100 63.5 51.1 76.7





#53

t-1,3-Dichloropropene

Concen: 0.293 ug/l

RT: 10.24 min Scan# 2634

Delta R.T. -0.14 min

Lab File: VN058304.D

Acq: 23 Sep 2019 19:35

Instrument :

MSVOA_N

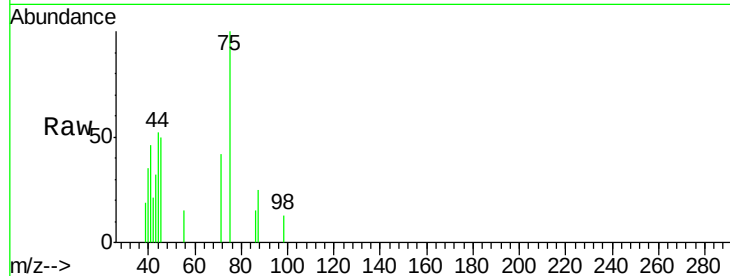
ClientSampleId :

Tot Ion: 75 Resp: 1873

Ion Ratio Lower Upper

75 100

77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.24

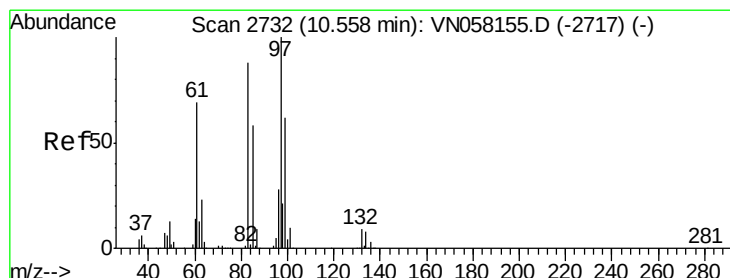
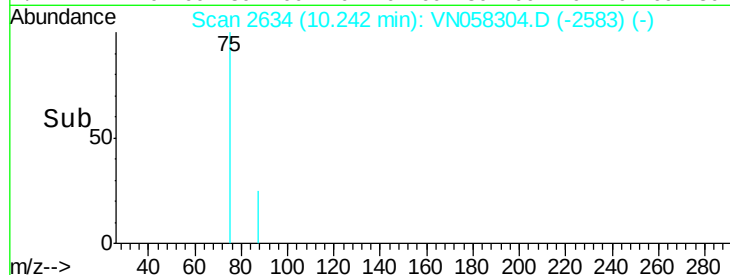
1500

1000

500

0

Time-->



#55

1,1,2-Trichloroethane

Concen: 0.973 ug/l

RT: 10.63 min Scan# 2753

Delta R.T. 0.07 min

Lab File: VN058304.D

Acq: 23 Sep 2019 19:35

Tgt Ion: 97 Resp: 4434

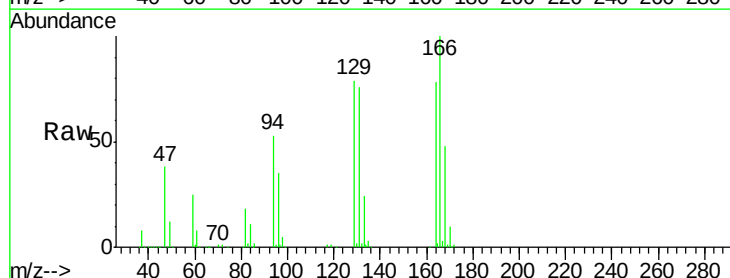
Ion Ratio Lower Upper

97 100

83 268.2 70.4 105.6#

85 50.4 46.8 70.2

99 19.5 49.9 74.9#



Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

8000

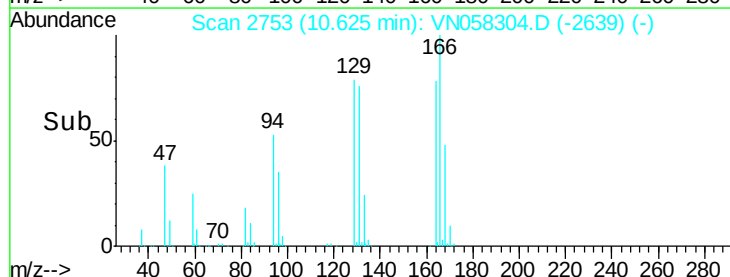
6000

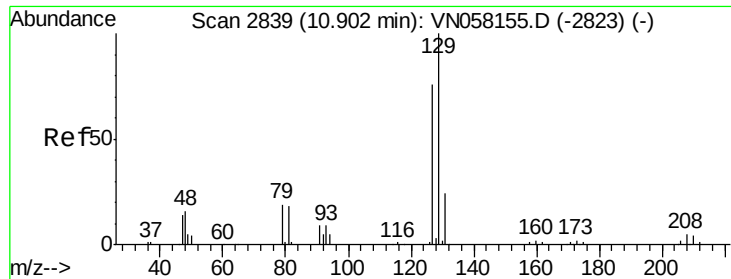
4000

2000

0

Time-->





#60

Dibromochloromethane

Concen: 101.270 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN058304.D

Acq: 23 Sep 2019 19:35

Instrument :

MSVOA_N

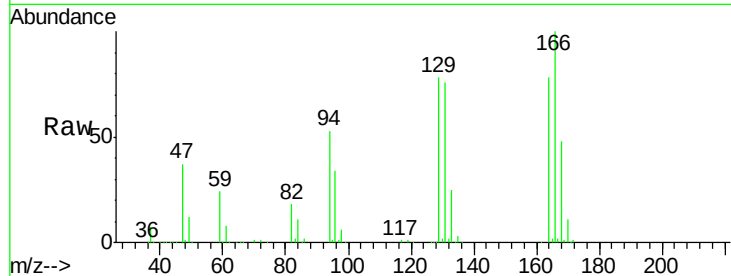
ClientSampled :

Tot Ion:129 Resp: 443832

Ion Ratio Lower Upper

129 100

127 0.0 38.7 116.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.63

250000

200000

150000

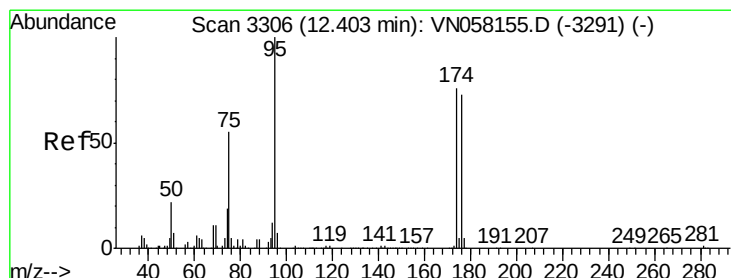
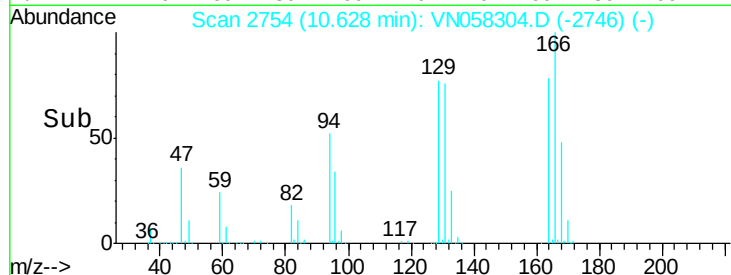
100000

50000

0

Time-->

10.60 10.65 10.70



#62

4-Bromofluorobenzene

Concen: 45.828 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058304.D

Acq: 23 Sep 2019 19:35

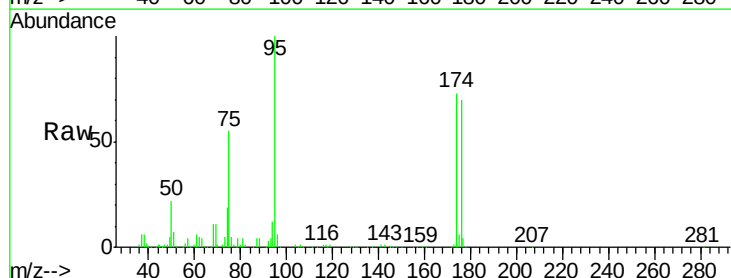
Tgt Ion: 95 Resp: 299842

Ion Ratio Lower Upper

95 100

174 74.3 0.0 152.2

176 71.1 0.0 148.0



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

250000

200000

150000

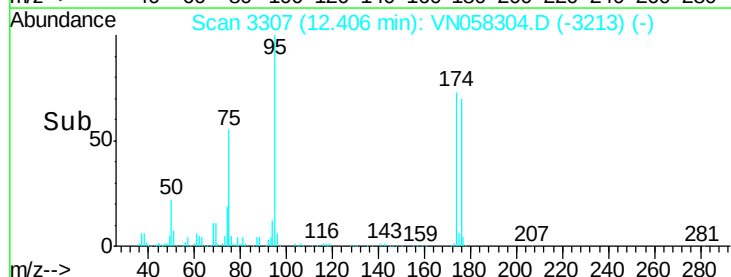
100000

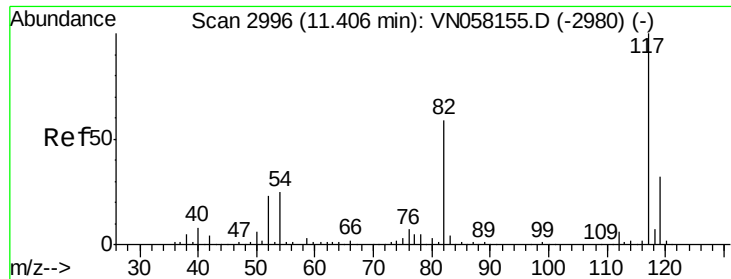
50000

0

Time-->

12.40 12.50

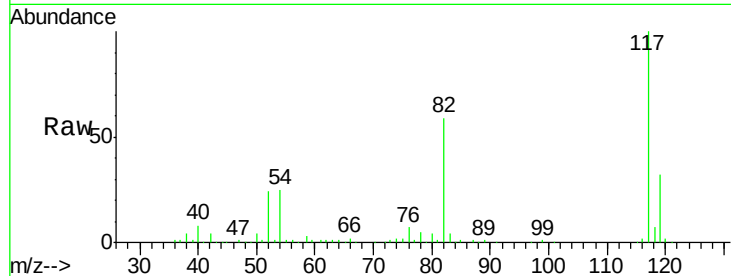




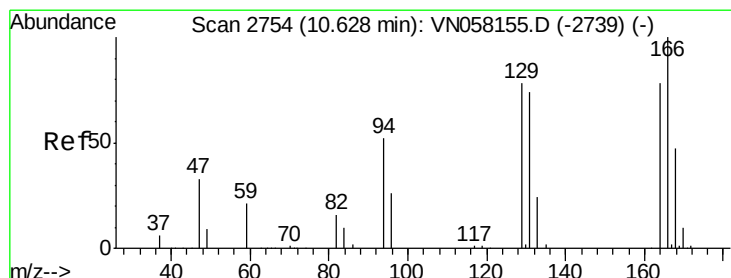
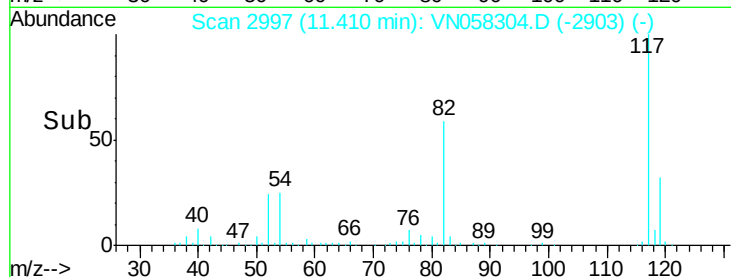
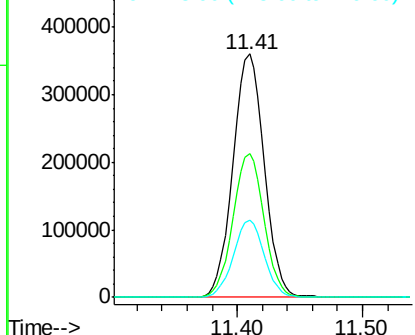
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058304.D
Acq: 23 Sep 2019 19:35

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 625068
Ion Ratio Lower Upper
117 100
82 59.2 46.9 70.3
119 31.7 25.3 37.9

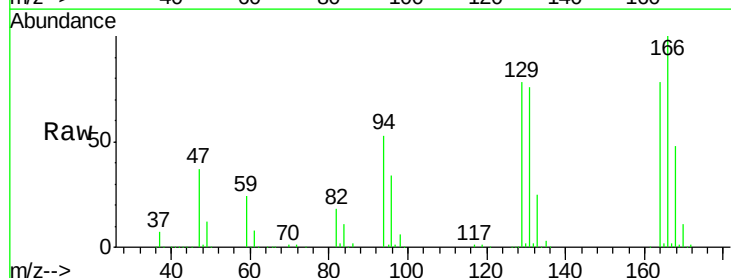


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

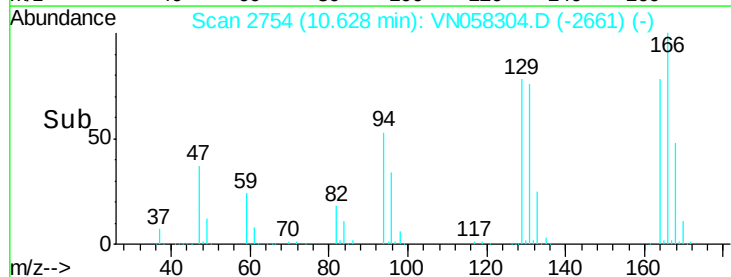
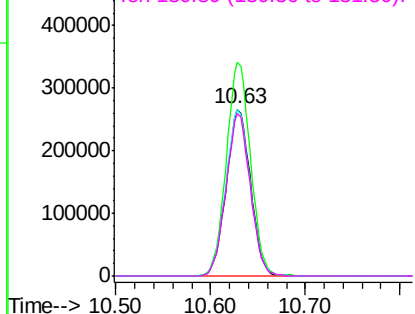


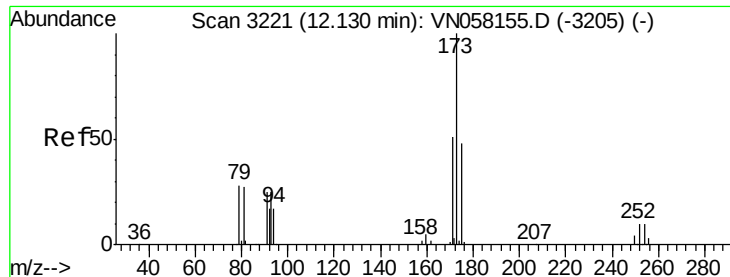
#64
Tetrachloroethene
Concen: 155.873 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN058304.D
Acq: 23 Sep 2019 19:35

Tgt Ion:164 Resp: 474953
Ion Ratio Lower Upper
164 100
166 128.2 102.2 153.4
129 100.0 79.6 119.4
131 97.7 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: 4.246 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN058304.D

Acq: 23 Sep 2019 19:35

Instrument :

MSVOA_N

ClientSampleId :

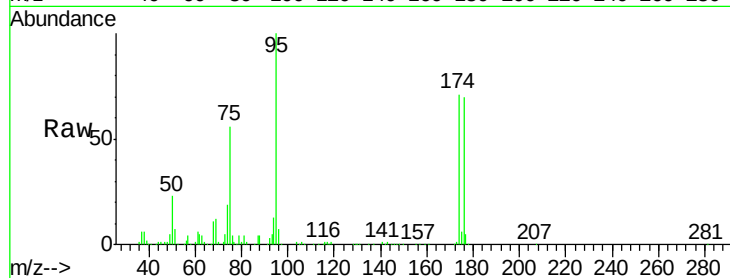
Tot Ion:173 Resp: 2074

Ion Ratio Lower Upper

173 100

175 657.6 24.2 72.6#

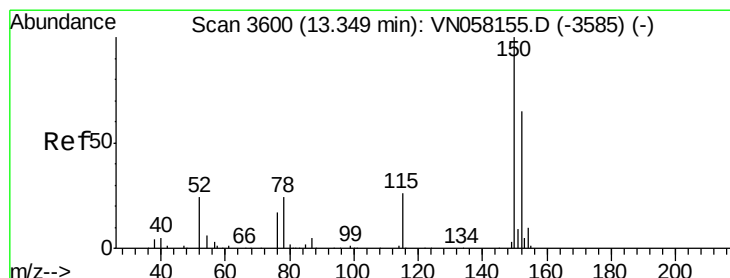
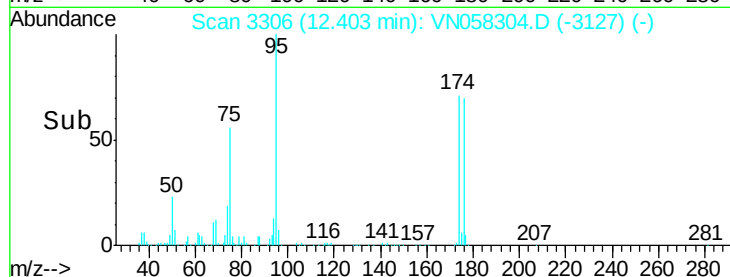
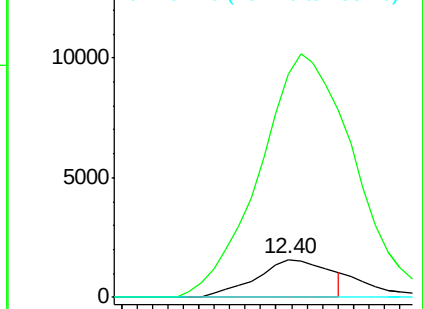
254 0.0 0.1 0.1#



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# 3601

Delta R.T. 0.00 min

Lab File: VN058304.D

Acq: 23 Sep 2019 19:35

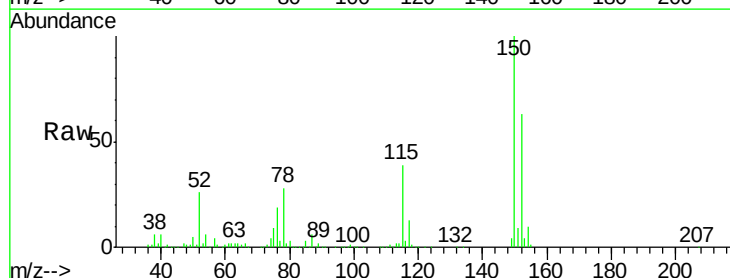
Tgt Ion:152 Resp: 261140

Ion Ratio Lower Upper

152 100

115 61.6 30.1 90.3

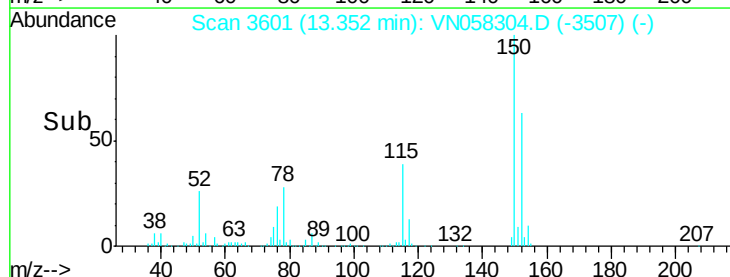
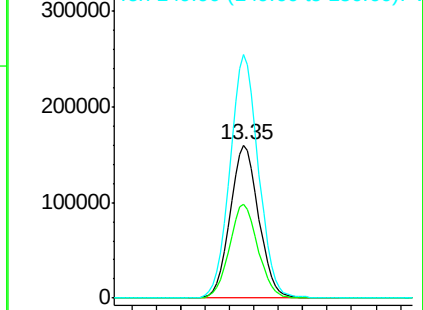
150 158.7 0.0 346.4

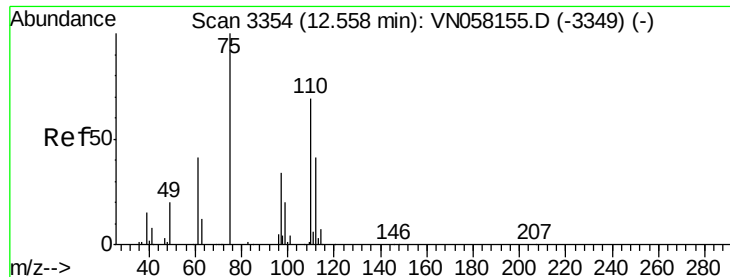


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 34.927 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058304.D

Acq: 23 Sep 2019 19:35

Instrument :

MSVOA_N

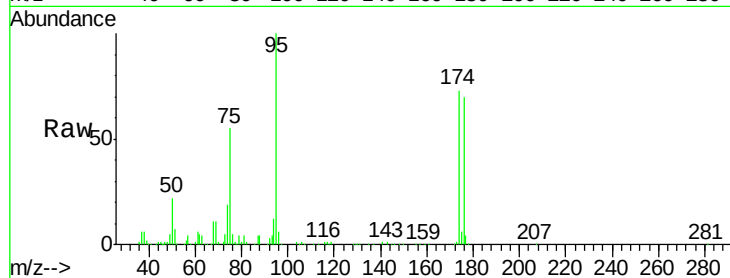
ClientSampled :

Tot Ion: 75 Resp: 163235

Ion Ratio Lower Upper

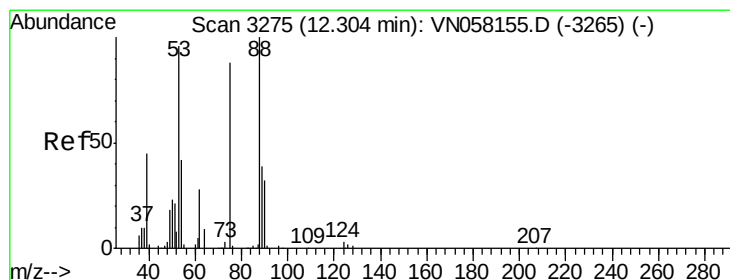
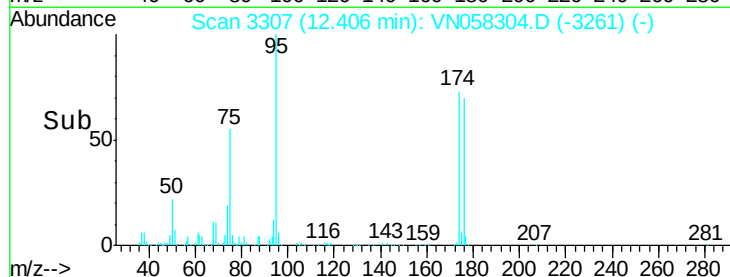
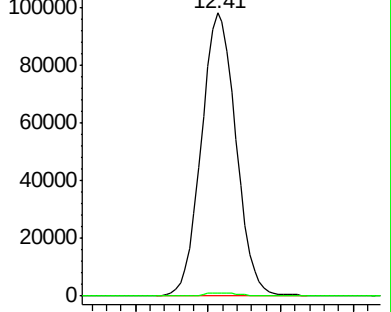
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 97.716 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058304.D

Acq: 23 Sep 2019 19:35

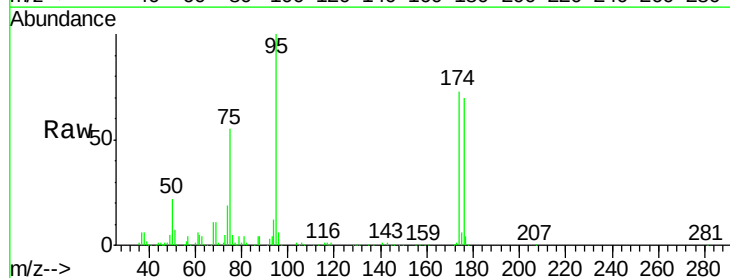
Tgt Ion: 75 Resp: 163235

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

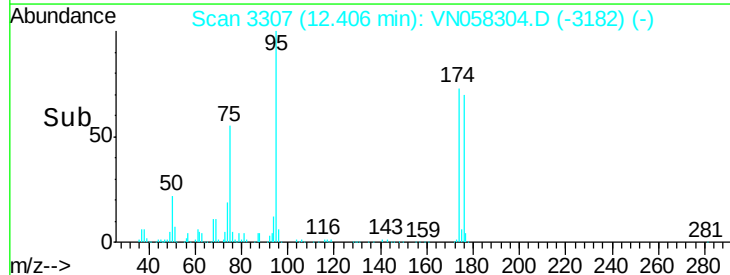
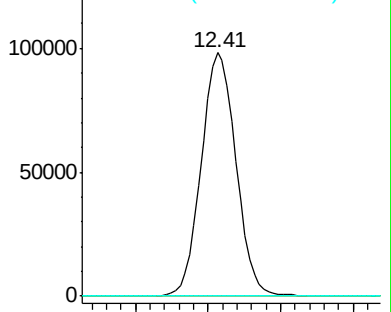
89 0.0 36.2 54.2#

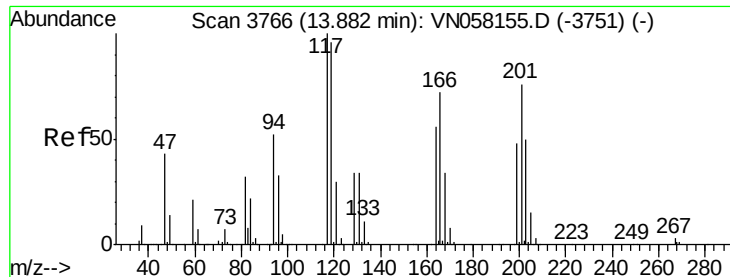


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#90

Hexachloroethane

Concen: 2.848 ug/l

RT: 14.00 min Scan# 3803

Delta R.T. 0.12 min

Lab File: VN058304.D

Acq: 23 Sep 2019 19:35

Instrument :

MSVOA_N

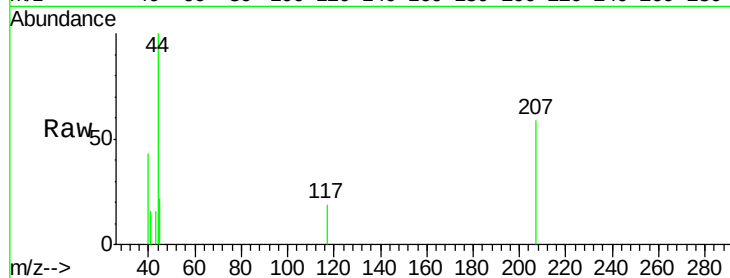
ClientSampleId :

Tot Ion:117 Resp: 68

Ion Ratio Lower Upper

117 100

201 0.0 37.5 112.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

14.00

200

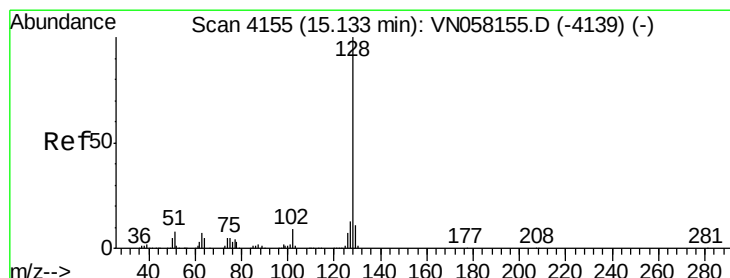
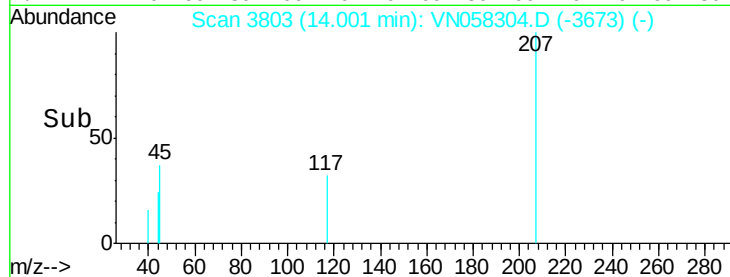
150

100

50

0

Time-->



#95

Naphthalene

Concen: 0.322 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN058304.D

Acq: 23 Sep 2019 19:35

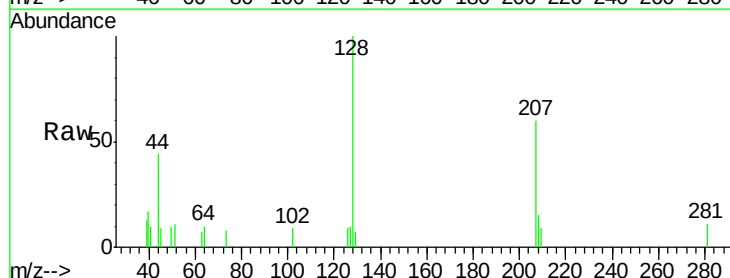
Tgt Ion:128 Resp: 4016

Ion Ratio Lower Upper

128 100

127 6.9 10.2 15.2#

129 4.5 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

3000

2500

2000

1500

1000

500

0

Time-->

