

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\
 Data File : VN058309.D
 Acq On : 23 Sep 2019 22:10
 Operator : JC/SP
 Sample : K5002-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 24 01:38:02 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	471503	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	770528	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	653848	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	262654	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	348740	53.10	ug/l	0.00
Spiked Amount			Recovery	=	106.20%	
35) Dibromofluoromethane	7.58	113	241306	51.52	ug/l	0.00
Spiked Amount			Recovery	=	103.04%	
50) Toluene-d8	10.09	98	973740	53.35	ug/l	0.00
Spiked Amount			Recovery	=	106.70%	
62) 4-Bromofluorobenzene	12.41	95	307450	45.35	ug/l	0.00
Spiked Amount			Recovery	=	90.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	637	Below Cal	#	42
4) Vinyl Chloride	2.42	62	145	Below Cal	#	43
5) Bromomethane	2.56	94	551	1.037	ug/l	98
6) Chloroethane	2.70	64	66	Below Cal	#	44
17) Carbon Disulfide	4.04	76	334	0.352	ug/l #	74
20) Methylene Chloride	4.52	84	452	Below Cal	#	31
31) Cyclohexane	7.65	56	11491	Below Cal	#	20
36) 1,1-Dichloropropene	7.65	75	41017	7.382	ug/l #	51
38) Carbon Tetrachloride	7.65	117	48302	8.647	ug/l #	15
41) Methacrylonitrile	7.23	41	33	0.922	ug/l #	100
43) Isopropyl Acetate	8.30	43	21783	2.023	ug/l #	57
71) Bromoform	12.41	173	983	3.890	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	167105	35.549	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	167105	99.353	ug/l #	5
95) Naphthalene	15.14	128	3635	0.290	ug/l #	91

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058309.D

Acq: 23 Sep 2019 22:10

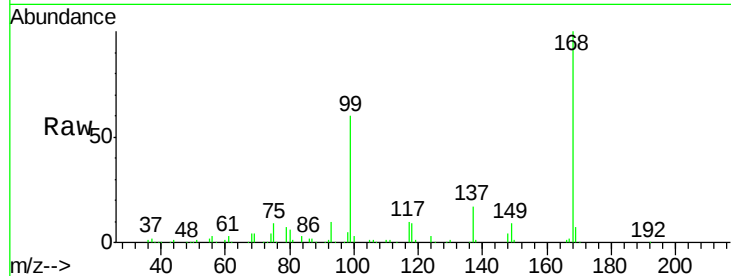
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 471503

Ion Ratio Lower Upper

168 100

99 60.4 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

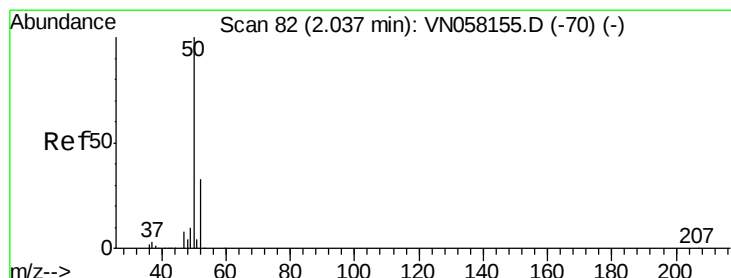
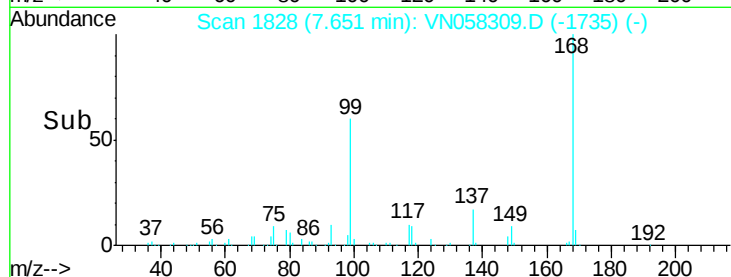
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 79

Delta R.T. -0.01 min

Lab File: VN058309.D

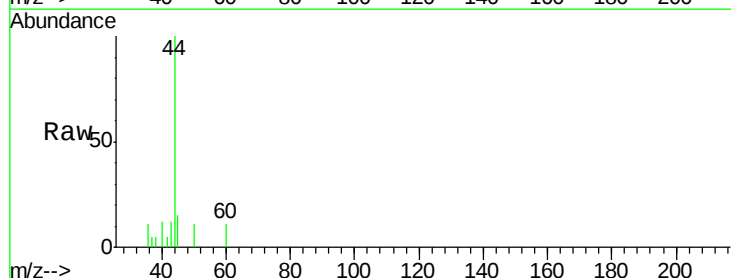
Acq: 23 Sep 2019 22:10

Tgt Ion: 50 Resp: 637

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

400

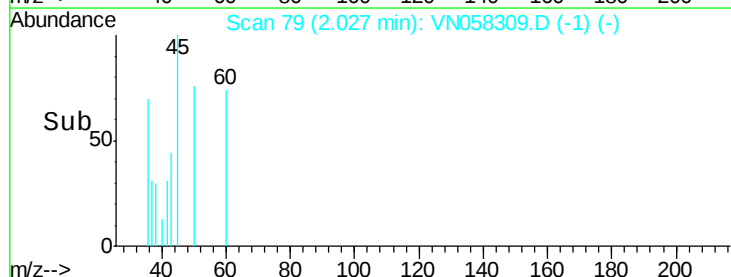
300

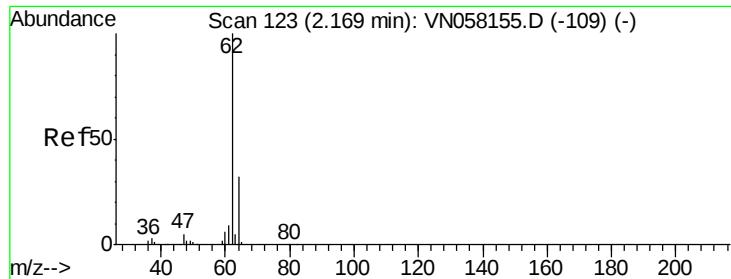
200

100

0

Time-->





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.42 min Scan# 202

Delta R.T. 0.25 min

Lab File: VN058309.D

Acq: 23 Sep 2019 22:10

Instrument :

MSVOA_N

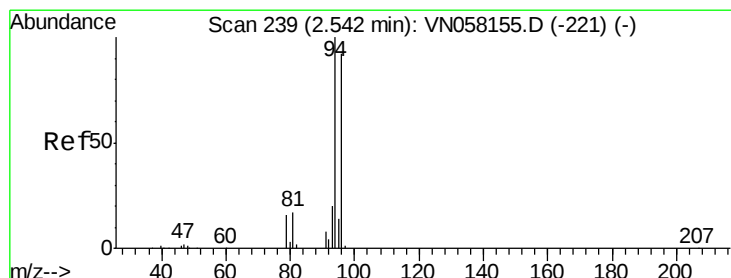
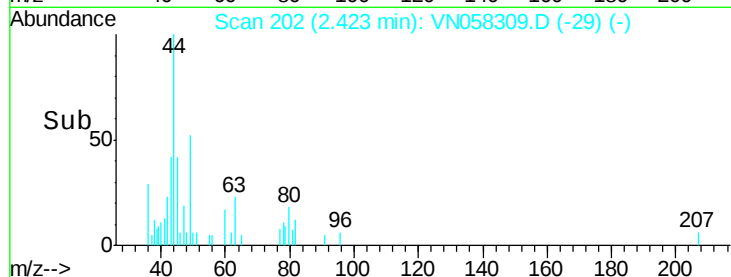
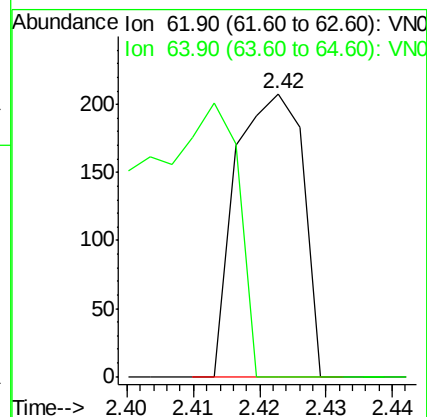
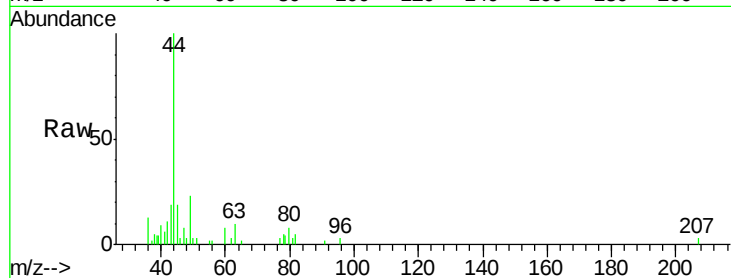
ClientSampleId :

Tot Ion: 62 Resp: 145

Ion Ratio Lower Upper

62 100

64 0.0 25.4 38.2#



#5

Bromomethane

Concen: 1.037 ug/l

RT: 2.56 min Scan# 245

Delta R.T. 0.02 min

Lab File: VN058309.D

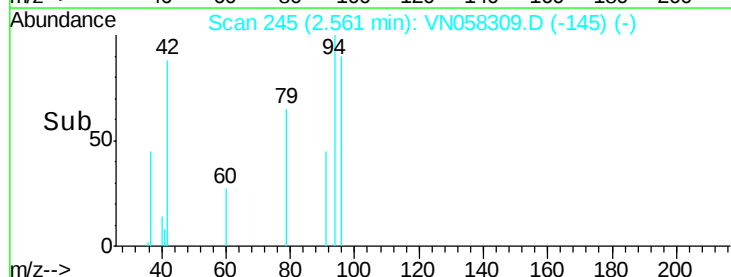
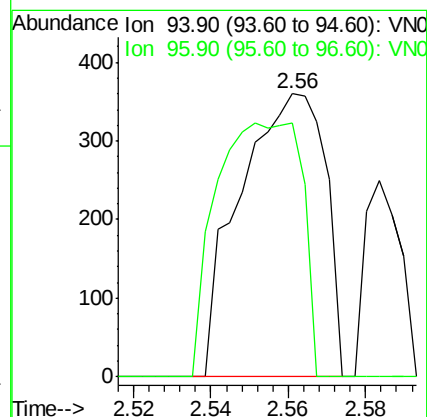
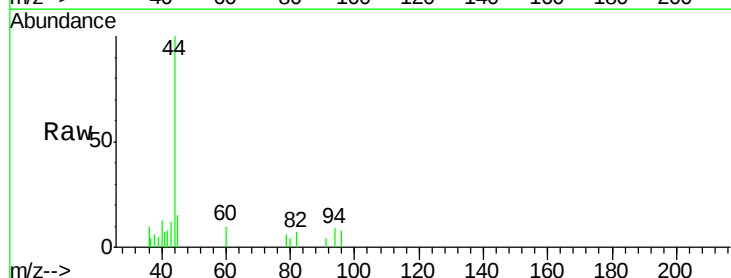
Acq: 23 Sep 2019 22:10

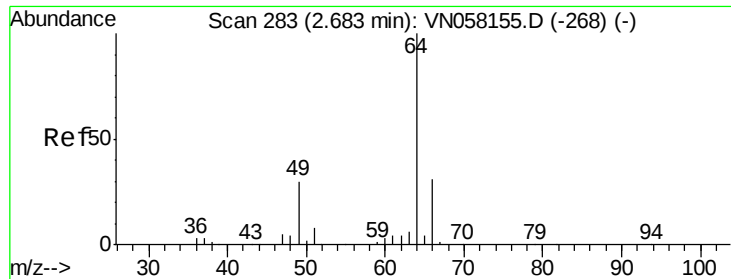
Tgt Ion: 94 Resp: 551

Ion Ratio Lower Upper

94 100

96 89.7 73.3 109.9





#6

Chloroethane

Concen: Below Cal

RT: 2.70 min Scan# 287

Delta R.T. 0.01 min

Lab File: VN058309.D

Acq: 23 Sep 2019 22:10

Instrument :

MSVOA_N

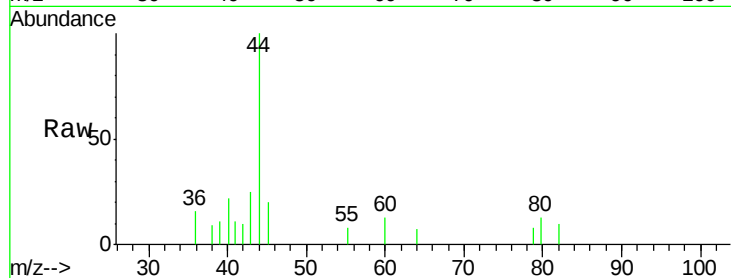
ClientSampled :

Tot Ion: 64 Resp: 66

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VNC

Ion 65.90 (65.60 to 66.60): VNC

2.70

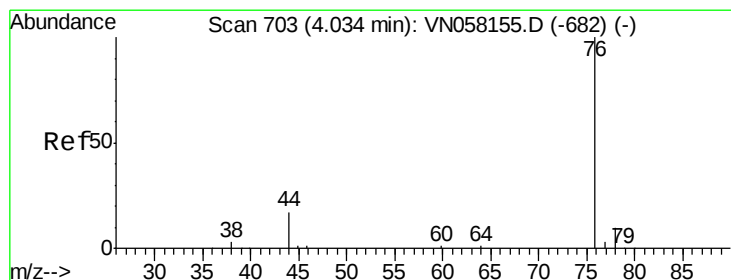
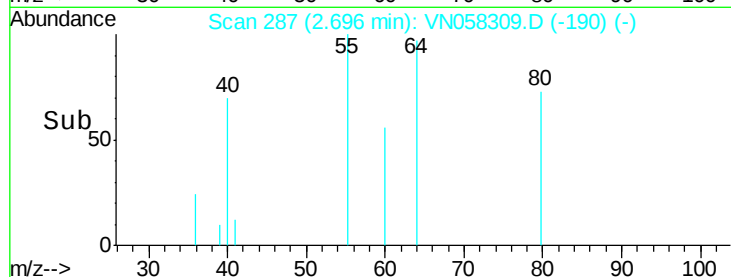
150

100

50

0

Time-->



#17

Carbon Disulfide

Concen: 0.352 ug/l

RT: 4.04 min Scan# 704

Delta R.T. 0.00 min

Lab File: VN058309.D

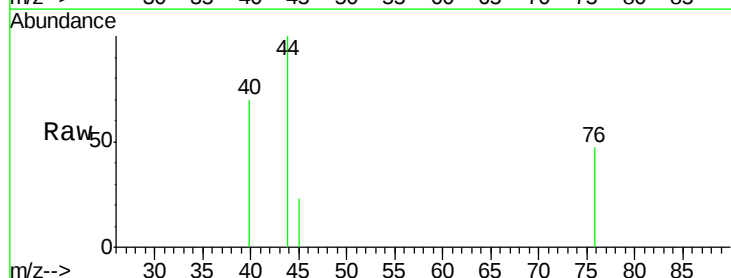
Acq: 23 Sep 2019 22:10

Tgt Ion: 76 Resp: 334

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC

4.04

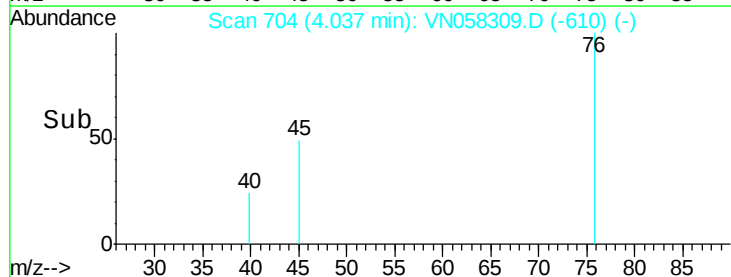
300

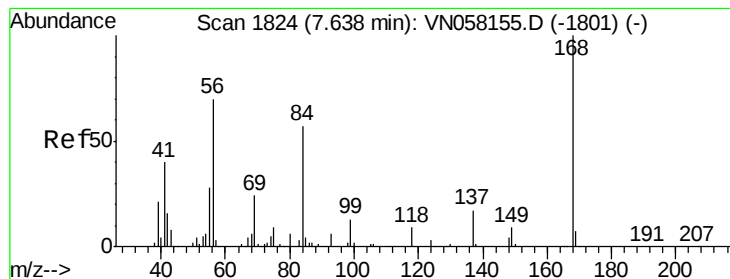
200

100

0

Time-->





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058309.D

Acq: 23 Sep 2019 22:10

Instrument :
MSVOA_N
ClientSampled :

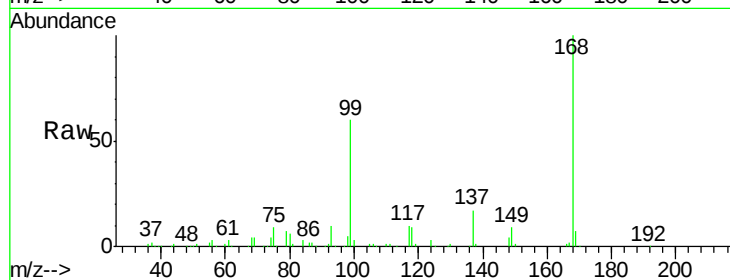
Tot Ion: 56 Resp: 11491

Ion Ratio Lower Upper

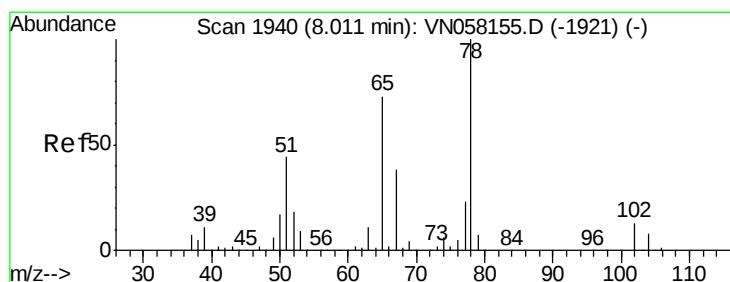
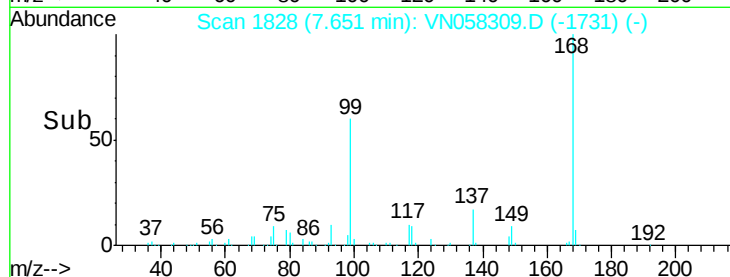
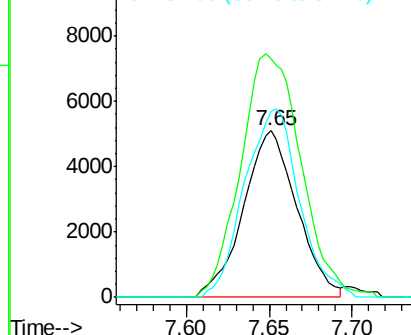
56 100

69 143.0 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: 53.104 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058309.D

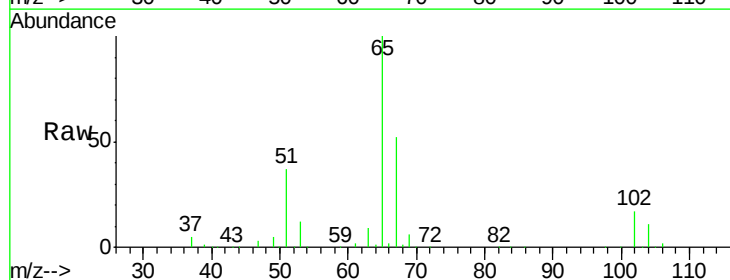
Acq: 23 Sep 2019 22:10

Tgt Ion: 65 Resp: 348740

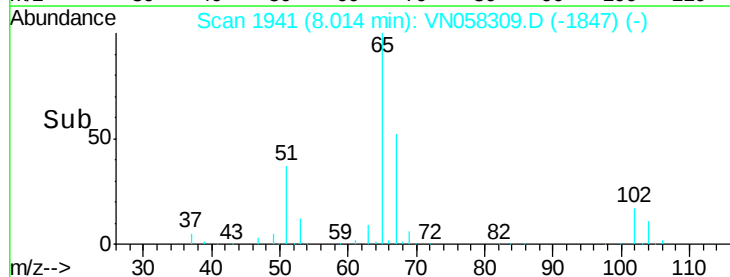
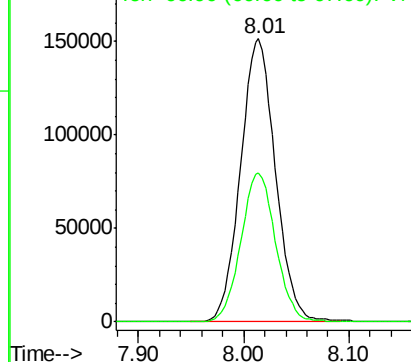
Ion Ratio Lower Upper

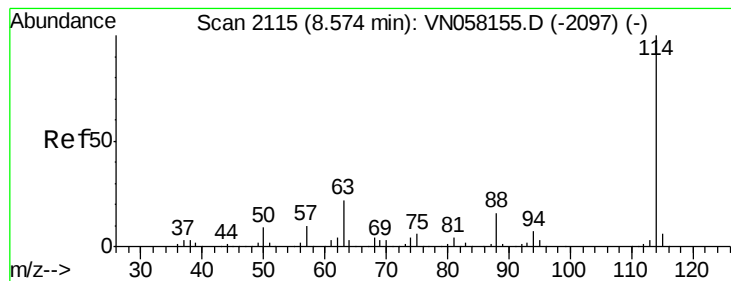
65 100

67 52.6 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: 8.58 min Scan# 2116

Delta R.T. 0.00 min

Lab File: VN058309.D

Acq: 23 Sep 2019 22:10

Instrument :

MSVOA_N

ClientSampled :

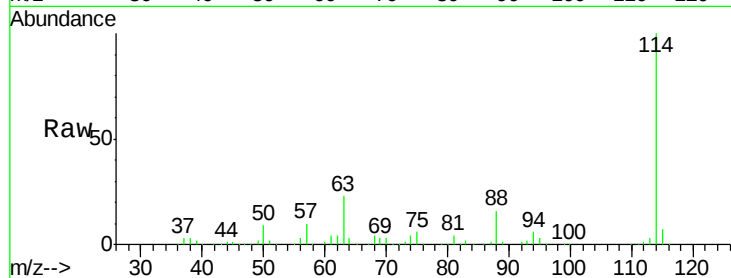
Tot Ion:114 Resp: 770528

Ion Ratio Lower Upper

114 100

63 23.1 0.0 44.2

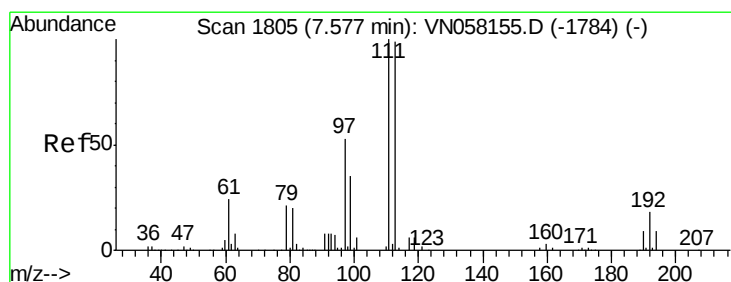
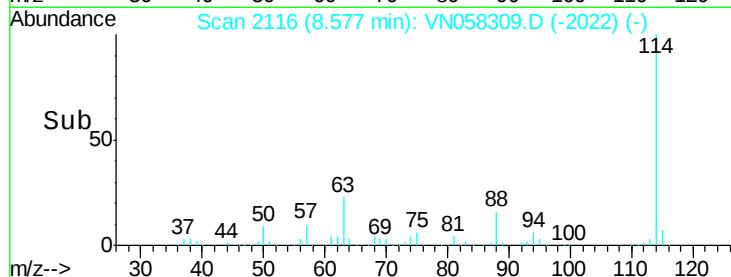
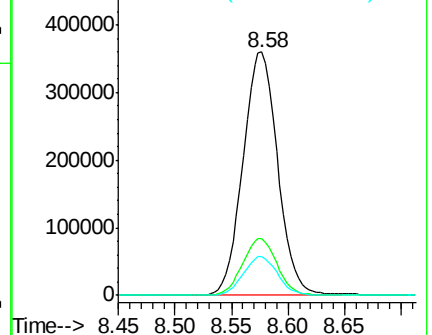
88 16.0 0.0 31.6



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: 51.515 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VN058309.D

Acq: 23 Sep 2019 22:10

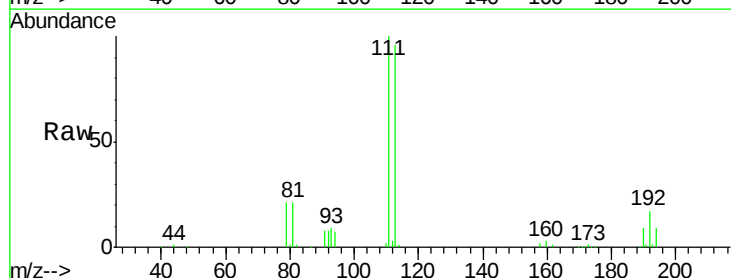
Tgt Ion:113 Resp: 241306

Ion Ratio Lower Upper

113 100

111 103.5 81.8 122.6

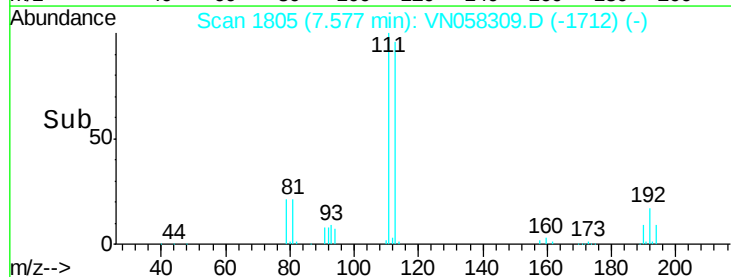
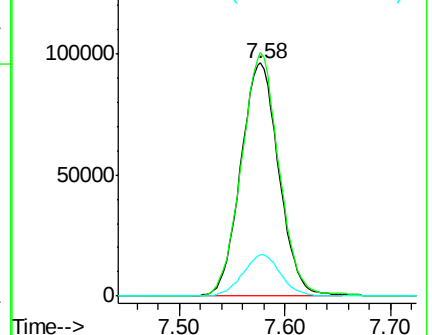
192 17.7 14.5 21.7

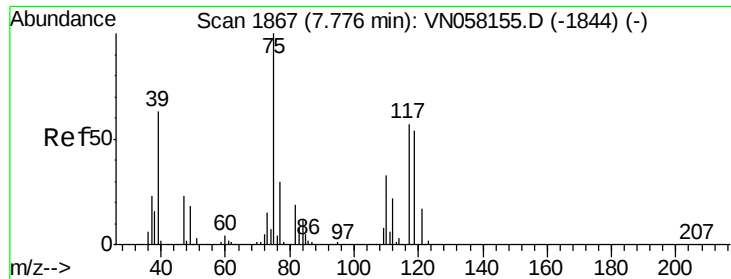


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

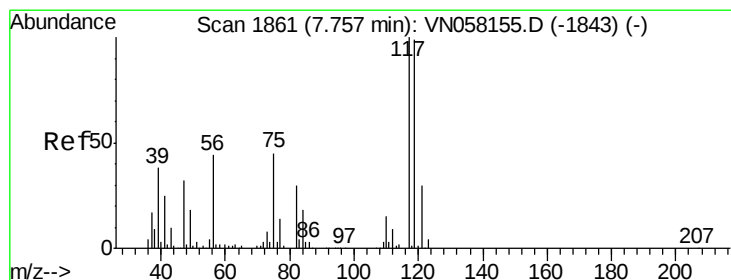
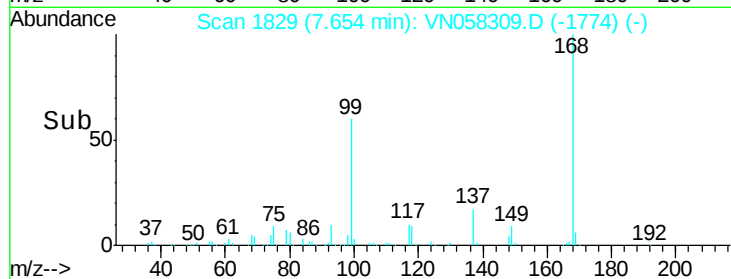
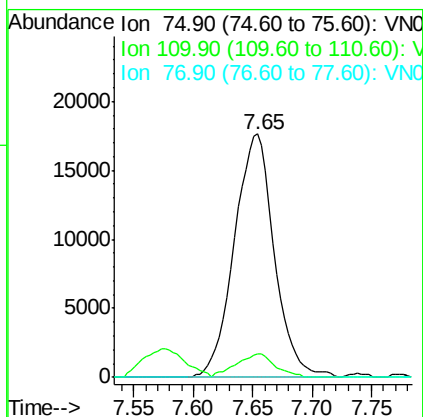
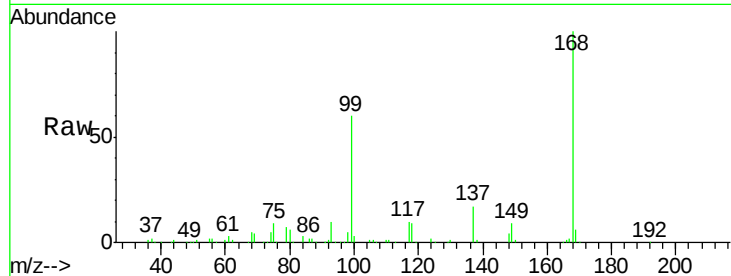




#36
 1,1-Dichloropropene
 Concen: 7.382 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN058309.D
 Acq: 23 Sep 2019 22:10

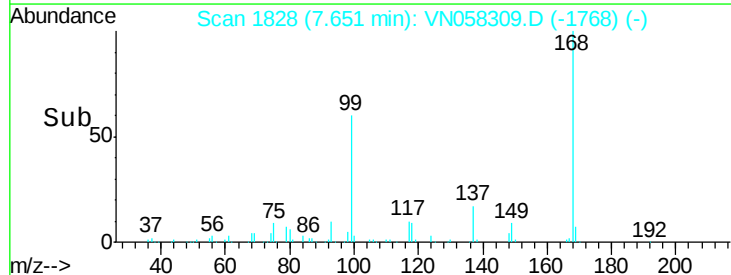
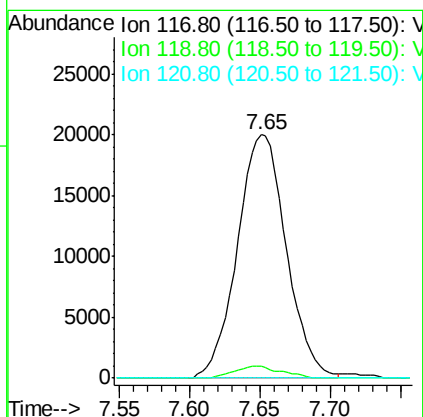
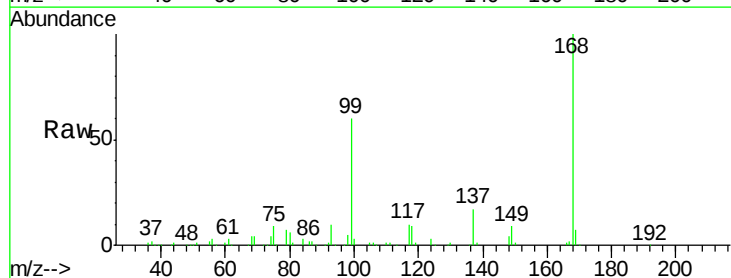
Instrument :
 MSVOA_N
 ClientSampled :

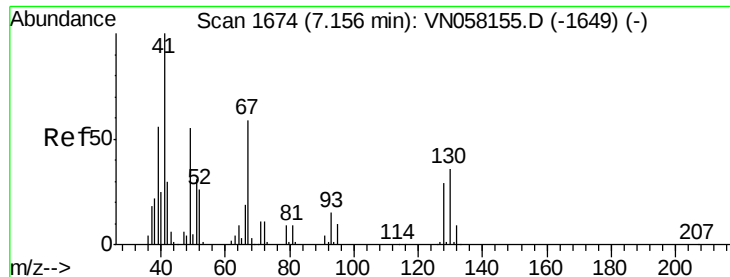
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.3	16.6	49.7#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 8.647 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058309.D
 Acq: 23 Sep 2019 22:10

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	78.6	117.8#
121	0.0	24.1	36.1#

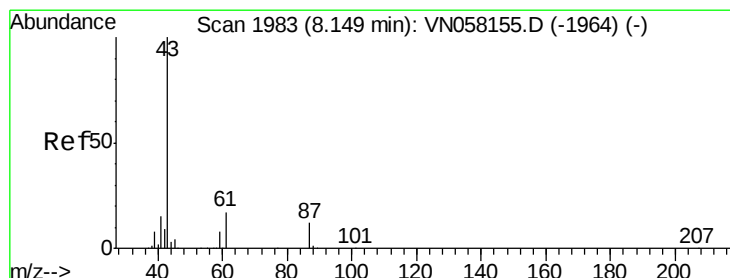
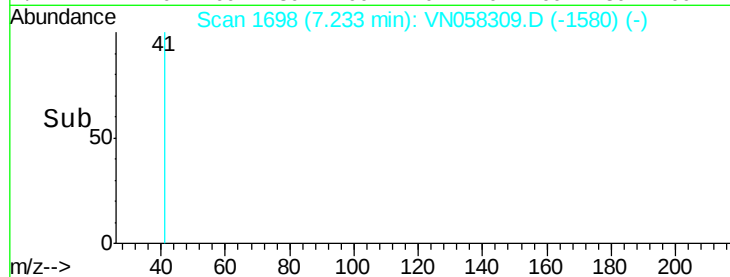
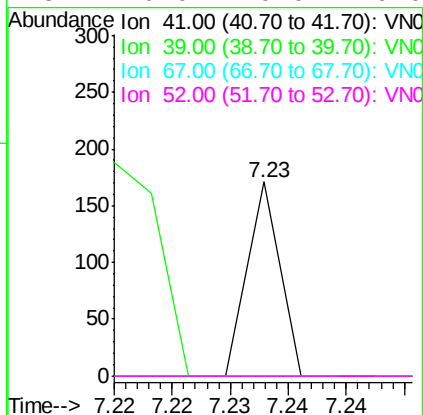
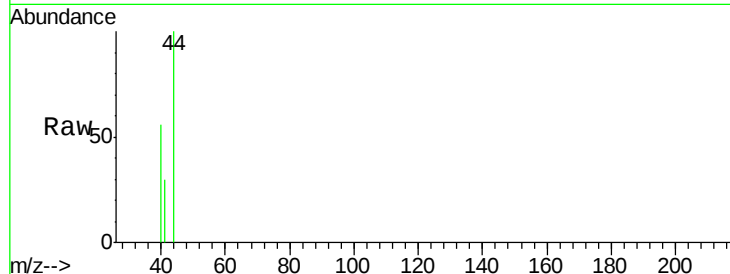




#41
Methacrylonitrile
Concen: 0.922 ug/l
RT: 7.23 min Scan# 1698
Delta R.T. 0.08 min
Lab File: VN058309.D
Acq: 23 Sep 2019 22:10

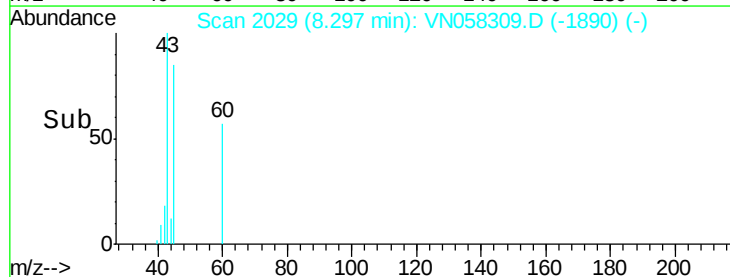
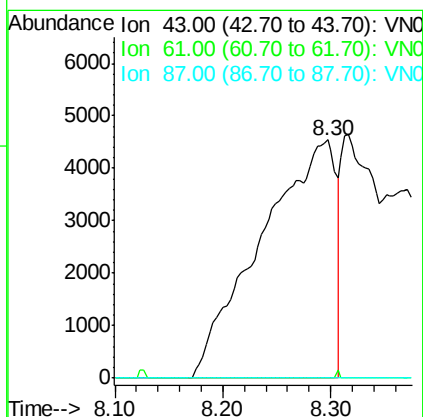
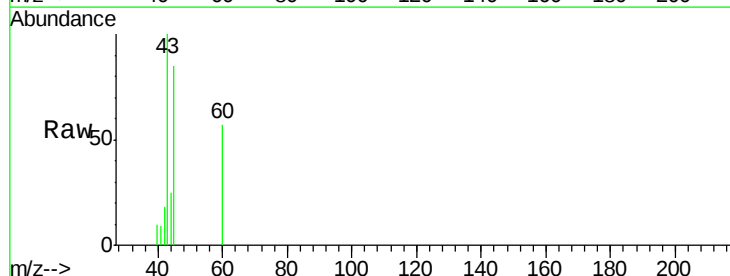
Instrument :
MSVOA_N
ClientSampleId :

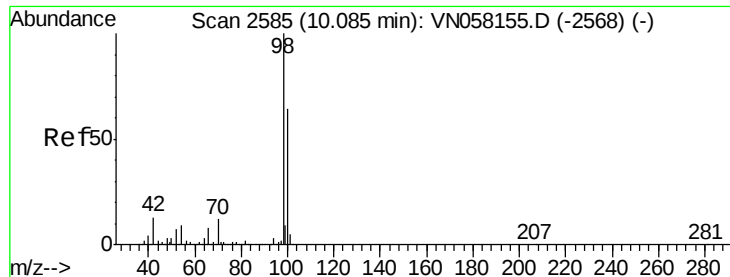
Tot Ion:	41	Resp:	33
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 2.023 ug/l
RT: 8.30 min Scan# 2029
Delta R.T. 0.15 min
Lab File: VN058309.D
Acq: 23 Sep 2019 22:10

Tgt Ion:	43	Resp:	21783
Ion	Ratio	Lower	Upper
43	100		
61	0.0	19.7	29.5#
87	0.0	9.4	14.2#





#50

Toluene-d8

Concen: 53.354 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN058309.D

Acq: 23 Sep 2019 22:10

Instrument :

MSVOA_N

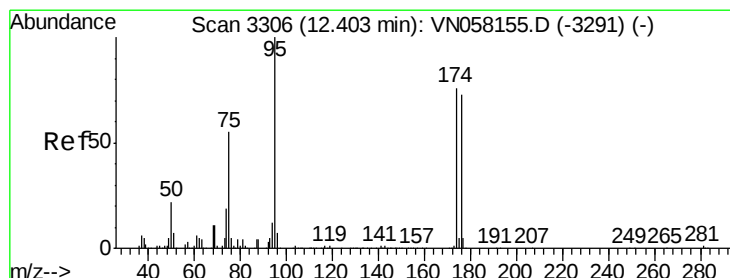
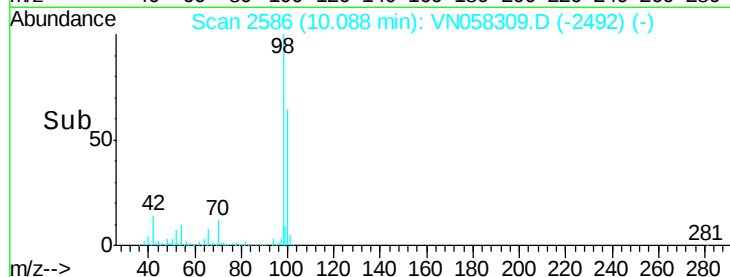
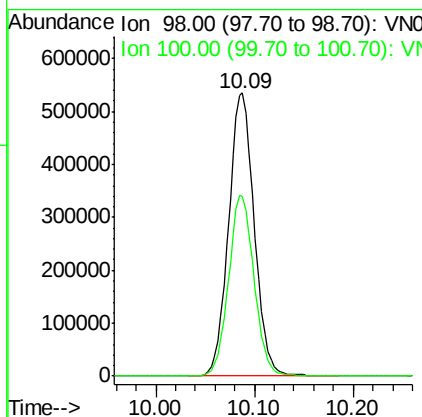
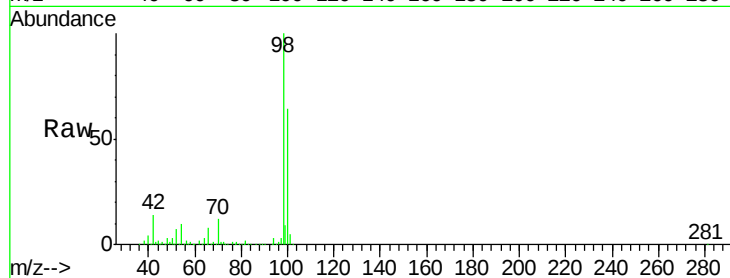
ClientSampleId :

Tot Ion: 98 Resp: 973740

Ion Ratio Lower Upper

98 100

100 63.6 51.1 76.7



#62

4-Bromofluorobenzene

Concen: 45.351 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058309.D

Acq: 23 Sep 2019 22:10

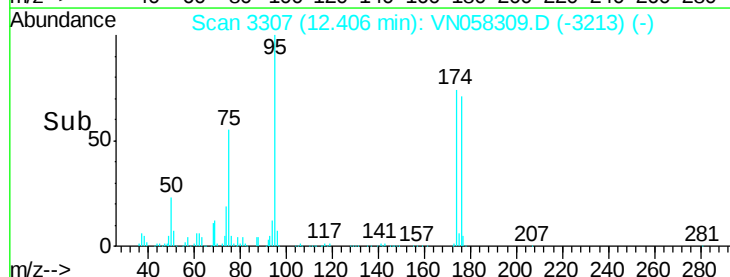
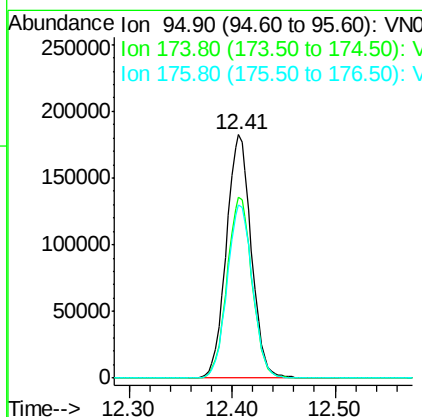
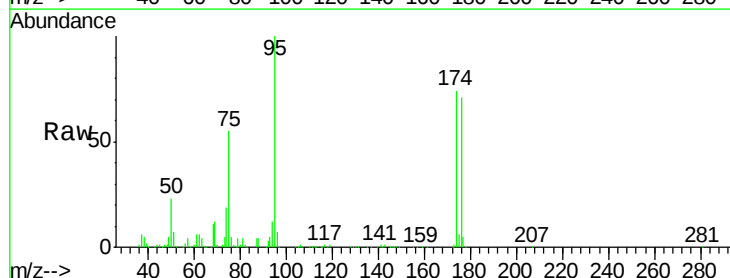
Tgt Ion: 95 Resp: 307450

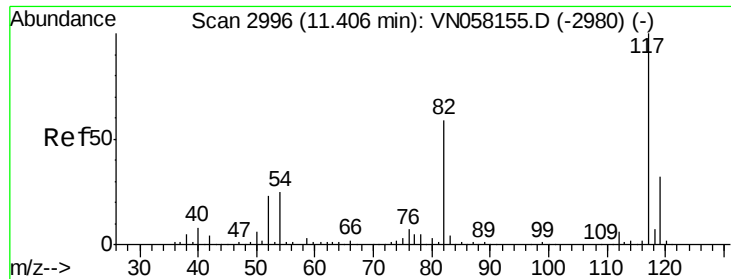
Ion Ratio Lower Upper

95 100

174 74.5 0.0 152.2

176 72.5 0.0 148.0

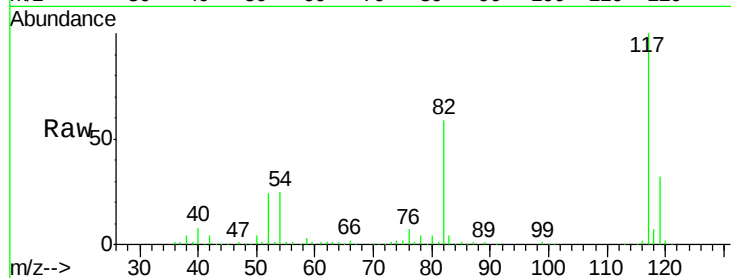




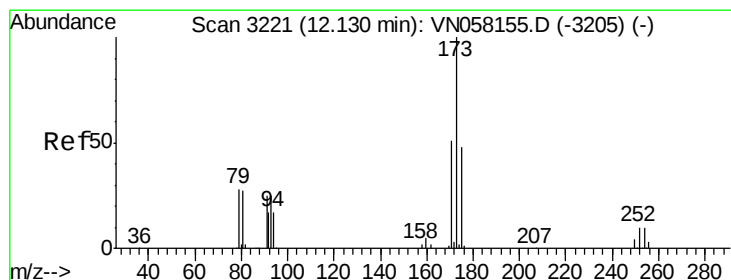
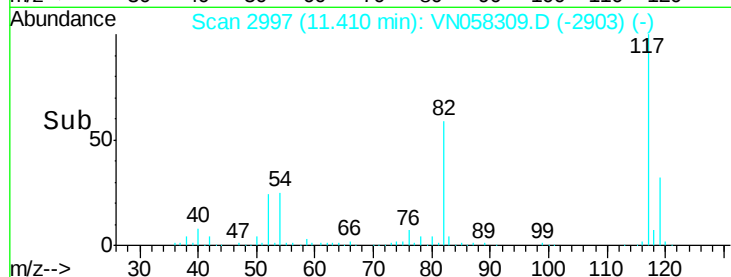
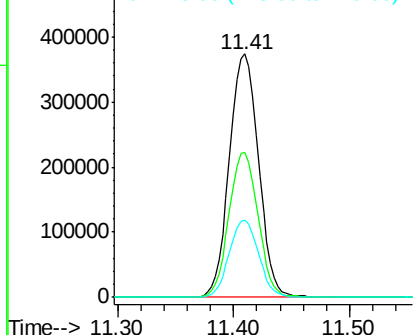
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058309.D
Acq: 23 Sep 2019 22:10

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 653848
Ion Ratio Lower Upper
117 100
82 59.4 46.9 70.3
119 31.8 25.3 37.9

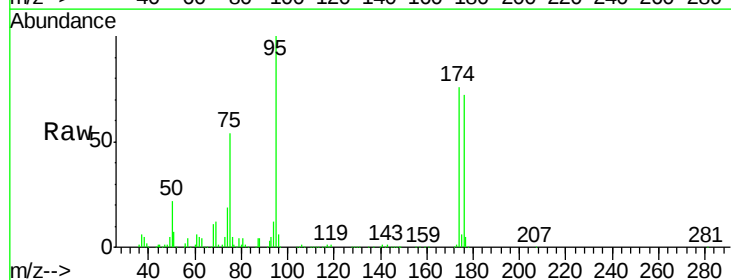


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

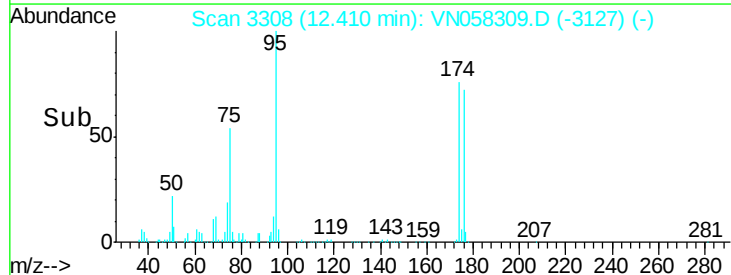
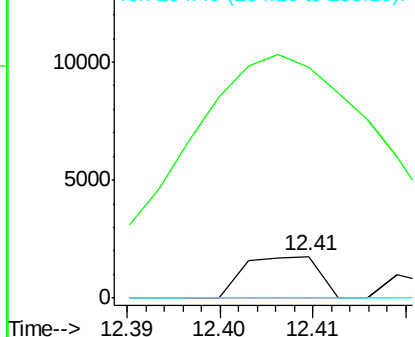


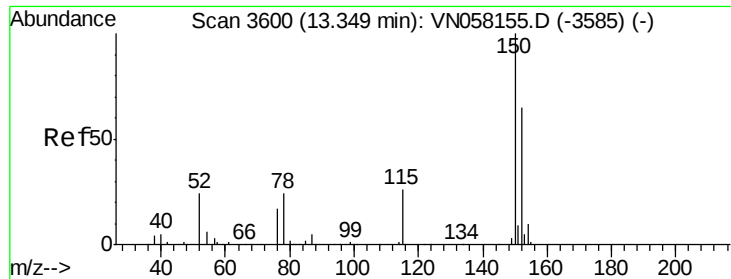
#71
Bromoform
Concen: 3.890 ug/l
RT: 12.41 min Scan# 3308
Delta R.T. 0.28 min
Lab File: VN058309.D
Acq: 23 Sep 2019 22:10

Tgt Ion:173 Resp: 983
Ion Ratio Lower Upper
173 100
175 1418.8 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: VN058309.D

Acq: 23 Sep 2019 22:10

Instrument :

MSVOA_N

ClientSampleId :

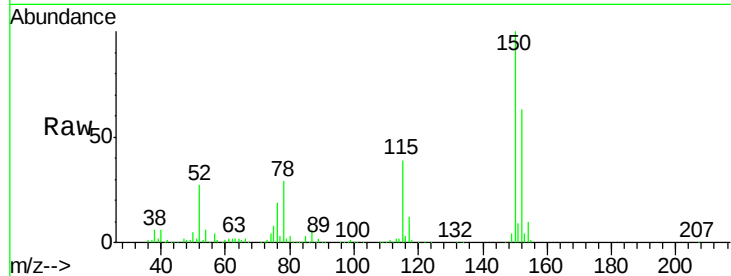
Tot Ion:152 Resp: 262654

Ion Ratio Lower Upper

152 100

115 60.9 30.1 90.3

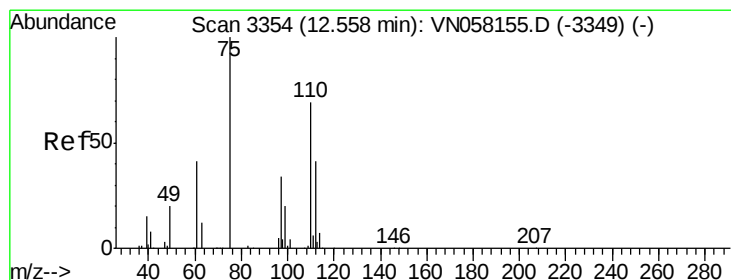
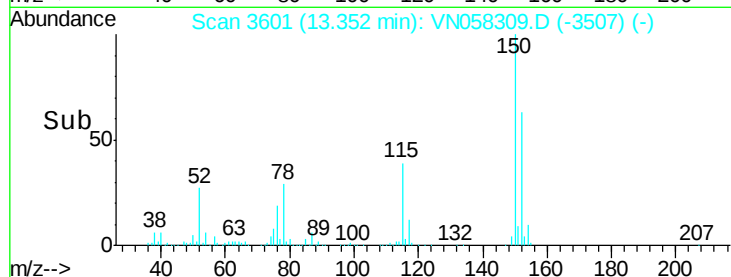
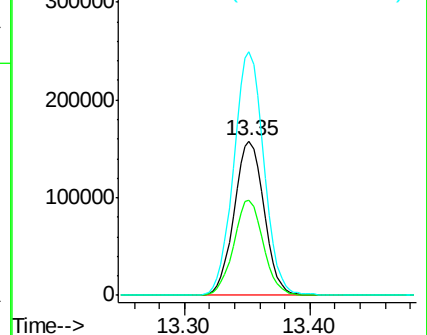
150 158.7 0.0 346.4



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: 35.549 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058309.D

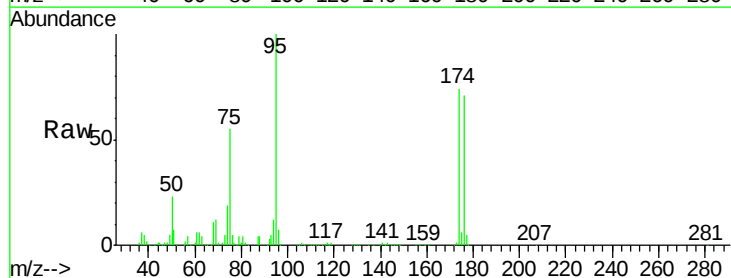
Acq: 23 Sep 2019 22:10

Tgt Ion: 75 Resp: 167105

Ion Ratio Lower Upper

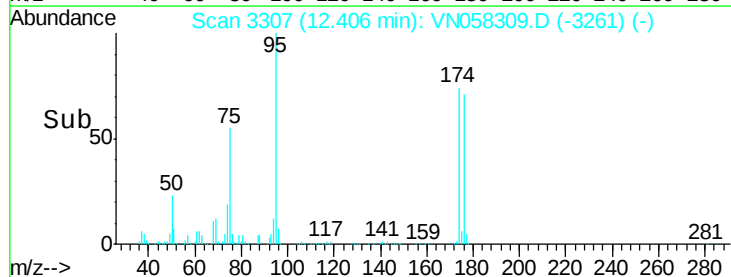
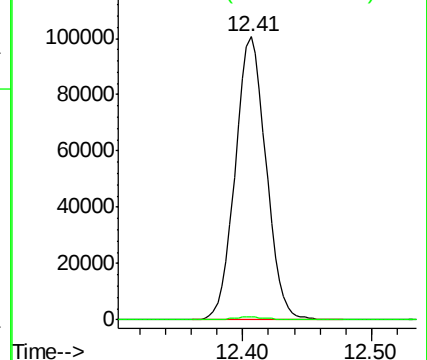
75 100

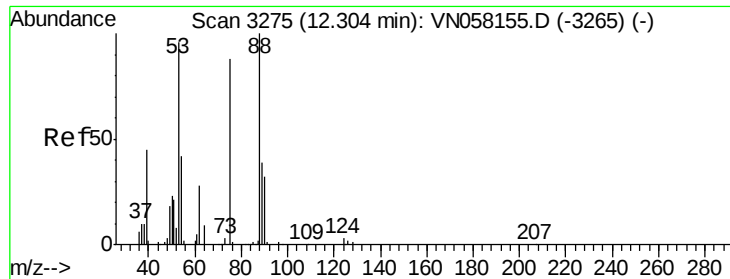
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

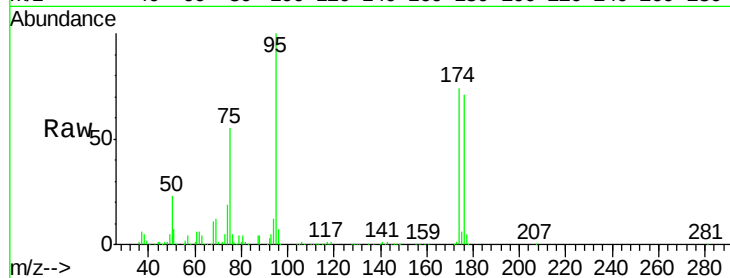




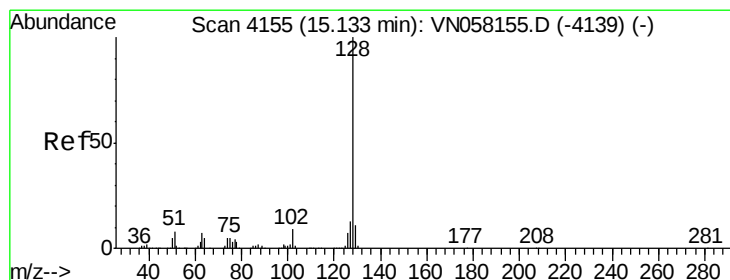
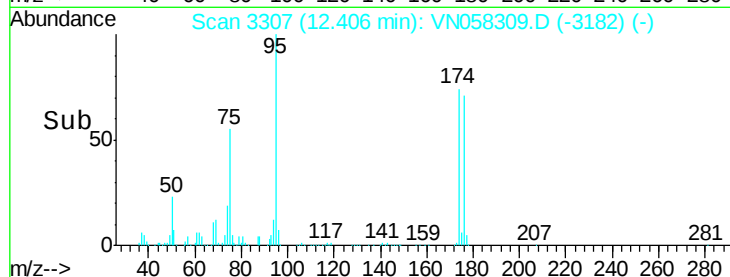
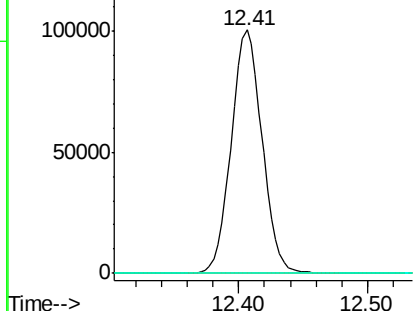
#81
trans-1,4-Dichloro-2-butene
Concen: 99.353 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.10 min
Lab File: VN058309.D
Acq: 23 Sep 2019 22:10

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 75 Resp: 167105
Ion Ratio Lower Upper
75 100
53 0.0 90.1 135.1#
89 0.0 36.2 54.2#

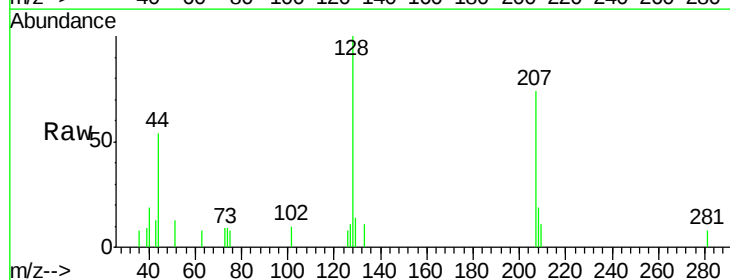


Abundance Ion 74.90 (74.60 to 75.60): VN058309.D (-3182) (-)
Ion 53.00 (52.70 to 53.70): VN058309.D (-3182) (-)
Ion 88.90 (88.60 to 89.60): VN058309.D (-3182) (-)



#95
Naphthalene
Concen: 0.290 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN058309.D
Acq: 23 Sep 2019 22:10

Tgt Ion: 128 Resp: 3635
Ion Ratio Lower Upper
128 100
127 6.1 10.2 15.2#
129 10.4 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): VN058309.D (-4062) (-)
Ion 127.00 (126.70 to 127.70): VN058309.D (-4062) (-)
Ion 129.00 (128.70 to 129.70): VN058309.D (-4062) (-)

