

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111119\
 Data File : VN059155.D
 Acq On : 11 Nov 2019 13:03
 Operator : JC/SP
 Sample : K5769-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 12 00:41:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	454452	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	697741	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	591569	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	203103	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	292441	52.35	ug/l	0.00
Spiked Amount			Recovery	=	104.70%	
35) Dibromofluoromethane	7.57	113	218982	52.56	ug/l	0.00
Spiked Amount			Recovery	=	105.12%	
50) Toluene-d8	10.08	98	859479	52.37	ug/l	0.00
Spiked Amount			Recovery	=	104.74%	
62) 4-Bromofluorobenzene	12.40	95	264298	44.67	ug/l	0.00
Spiked Amount			Recovery	=	89.34%	

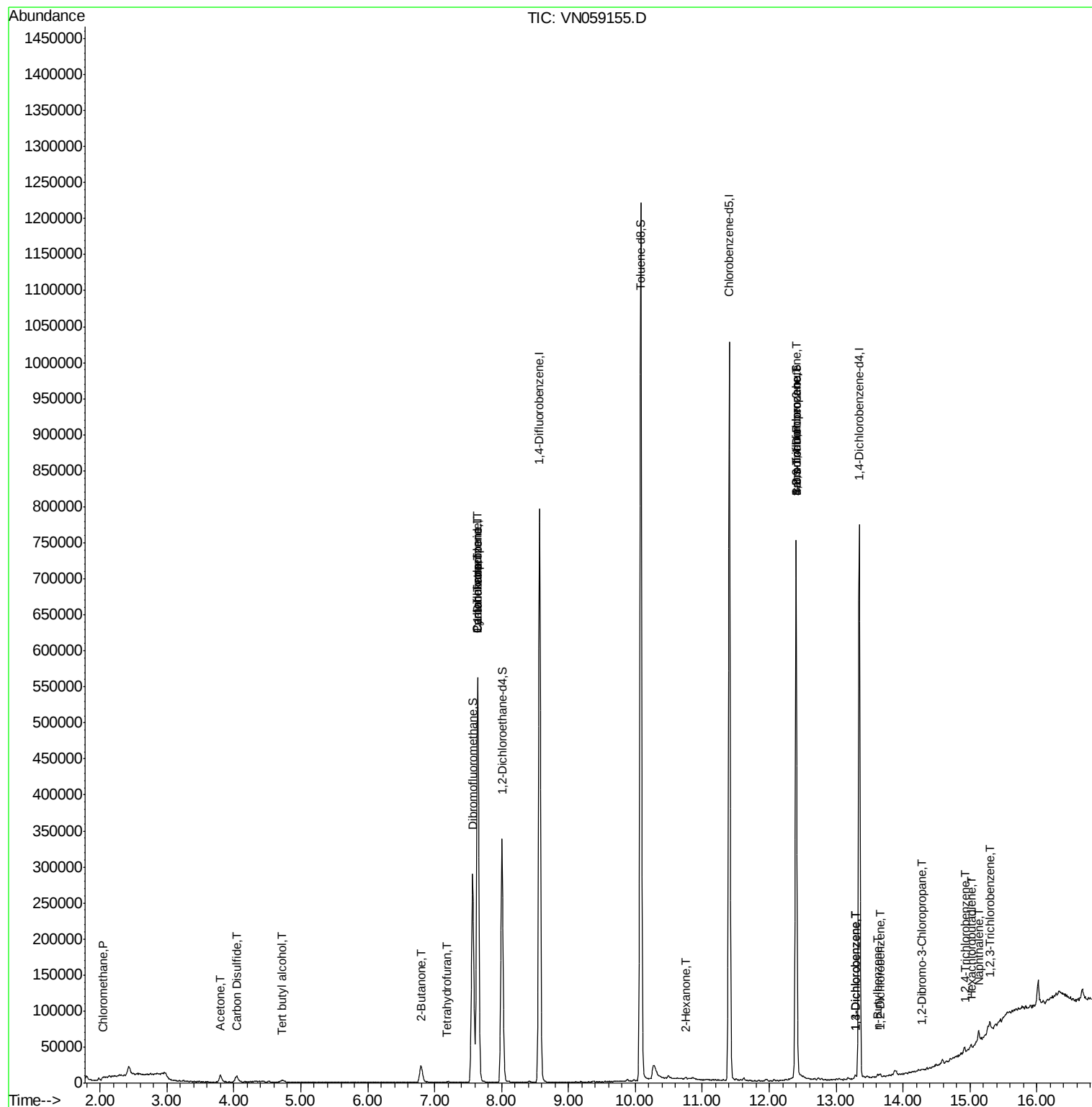
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1444	0.232	ug/l #	85
11) Tert butyl alcohol	4.73	59	1241	1.166	ug/l #	72
16) Acetone	3.80	43	13777	4.742	ug/l	97
17) Carbon Disulfide	4.03	76	4897	0.372	ug/l #	89
25) 2-Butanone	6.79	43	1130	0.295	ug/l #	50
29) Tetrahydrofuran	7.18	42	547	0.225	ug/l #	35
31) Cyclohexane	7.64	56	9733	1.119	ug/l #	5
36) 1,1-Dichloropropene	7.64	75	34543	5.297	ug/l #	50
38) Carbon Tetrachloride	7.64	117	44191	6.808	ug/l #	16
59) 2-Hexanone	10.75	43	2014	0.401	ug/l	64
71) Bromoform	12.40	173	1046	0.311	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	134637	29.117	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	134637	76.906	ug/l #	13
87) 1,3-Dichlorobenzene	13.28	146	1509	0.237	ug/l	96
88) 1,4-Dichlorobenzene	13.28	146	1509	0.237	ug/l	96
89) n-Butylbenzene	13.62	91	2299	0.212	ug/l	94
91) 1,2-Dichlorobenzene	13.66	146	1598	0.256	ug/l	89
92) 1,2-Dibromo-3-Chloropropan	14.27	75	312	0.337	ug/l #	37
93) 1,2,4-Trichlorobenzene	14.91	180	2841	3.750	ug/l	99
94) Hexachlorobutadiene	15.01	225	519	0.241	ug/l #	63
95) Naphthalene	15.13	128	11342	4.057	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	3772	1.076	ug/l	92

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059155.D

Acq: 11 Nov 2019 13:03

Instrument :

MSVOA_N

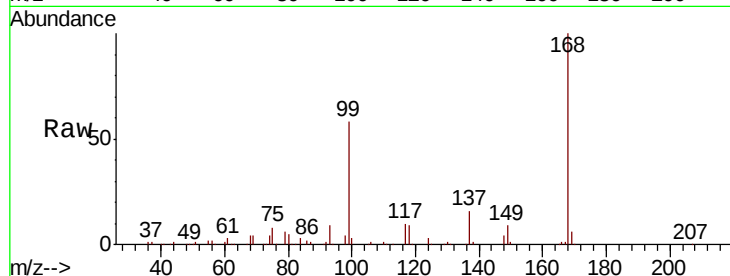
ClientSampled :

Tot Ion:168 Resp: 454452

Ion Ratio Lower Upper

168 100

99 57.7 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): VN059155.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN059155.D (-1733) (-)

7.64

200000

150000

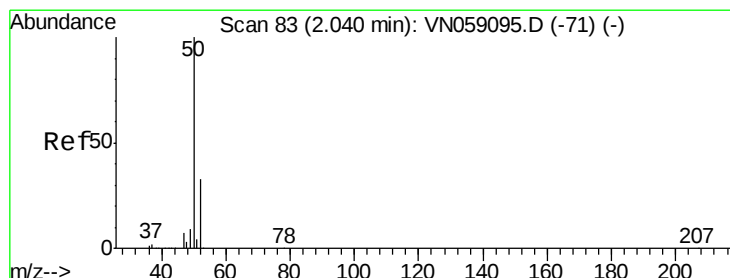
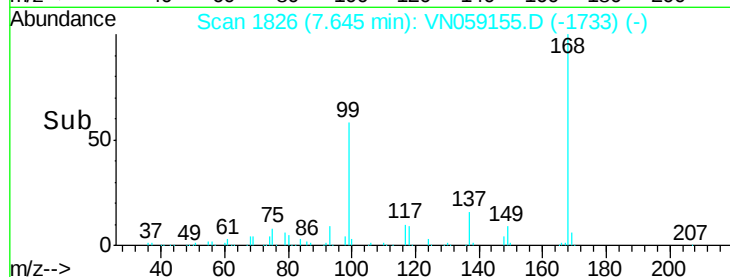
100000

50000

0

7.60 7.70

Time-->



#3

Chloromethane

Concen: 0.232 ug/l

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN059155.D

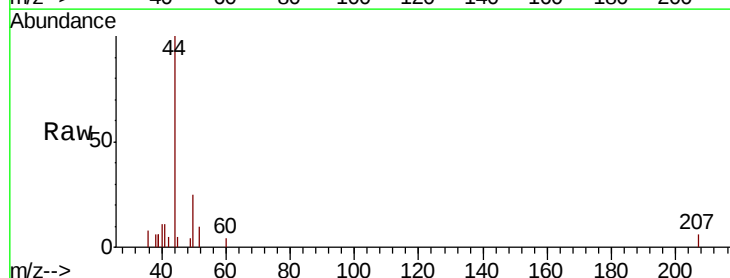
Acq: 11 Nov 2019 13:03

Tgt Ion: 50 Resp: 1444

Ion Ratio Lower Upper

50 100

52 41.1 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN059155.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN059155.D (-1) (-)

2.04

1000

800

600

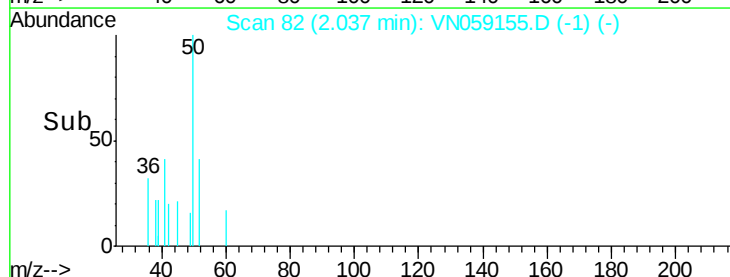
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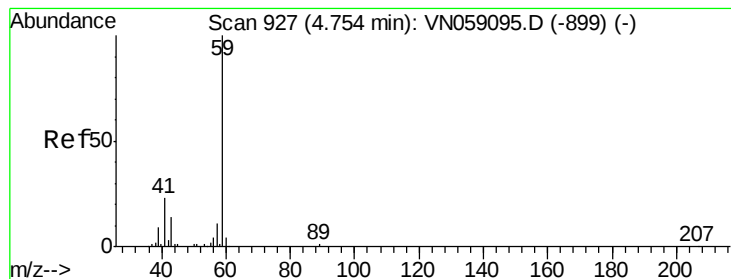
200

0

2.00 2.02 2.04 2.06 2.08

Time-->



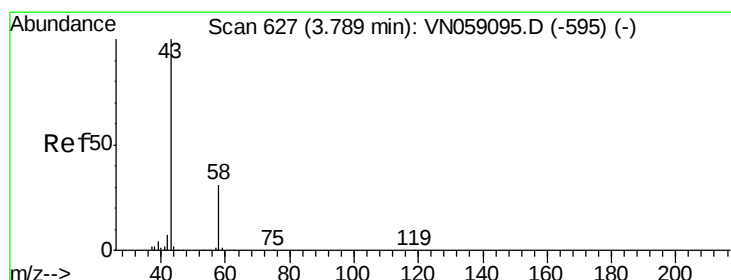
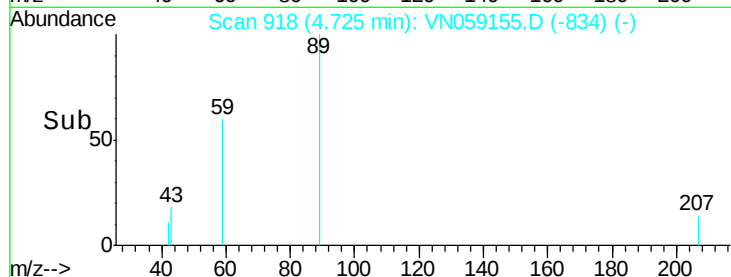
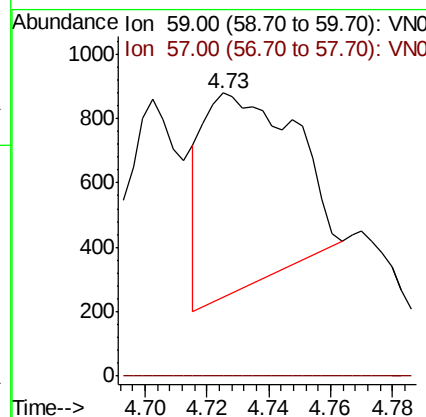
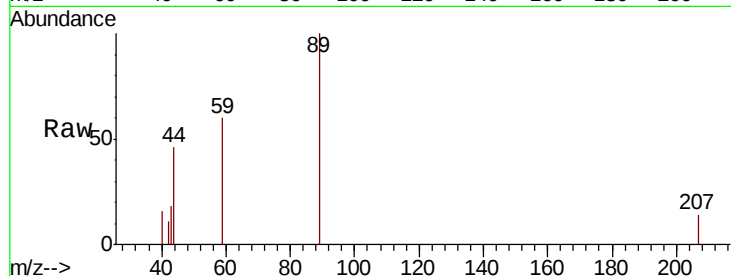


#11

Tert butyl alcohol
 Concen: 1.166 ug/l
 RT: 4.73 min Scan# 918
 Delta R.T. -0.03 min
 Lab File: VN059155.D
 Acq: 11 Nov 2019 13:03

Instrument :
 MSVOA_N
 ClientSampleId :

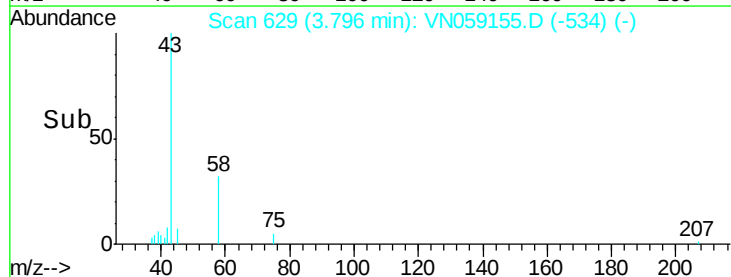
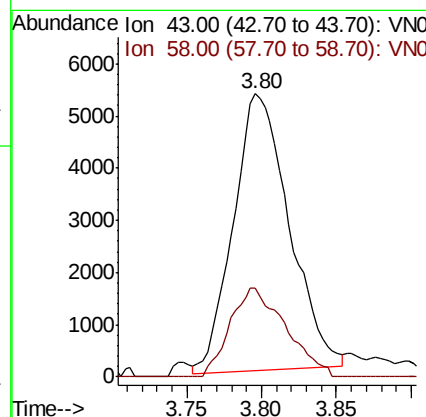
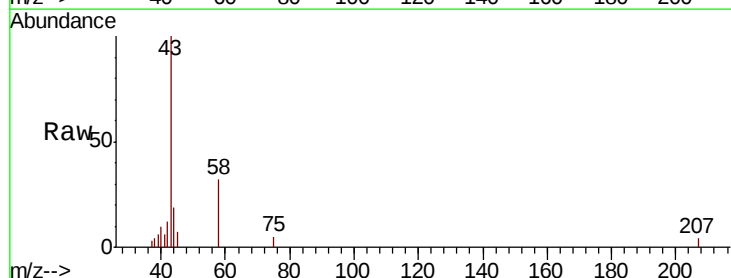
Tot Ion: 59 Resp: 1241
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

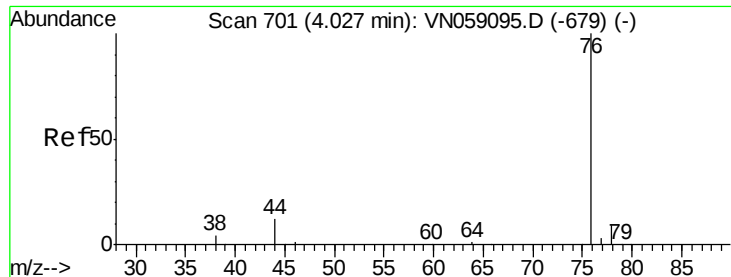


#16

Acetone
 Concen: 4.742 ug/l
 RT: 3.80 min Scan# 629
 Delta R.T. 0.01 min
 Lab File: VN059155.D
 Acq: 11 Nov 2019 13:03

Tgt Ion: 43 Resp: 13777
 Ion Ratio Lower Upper
 43 100
 58 32.7 24.9 37.3





#17

Carbon Disulfide

Concen: 0.372 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN059155.D

Acq: 11 Nov 2019 13:03

Instrument :

MSVOA_N

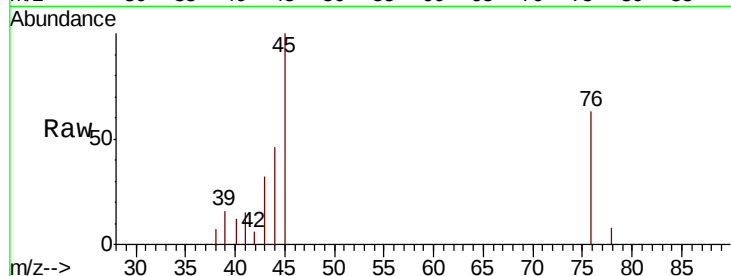
ClientSampleId :

Tot Ion: 76 Resp: 4897

Ion Ratio Lower Upper

76 100

78 13.1 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.03

1500

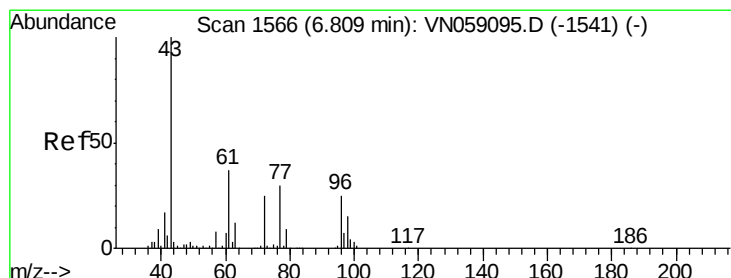
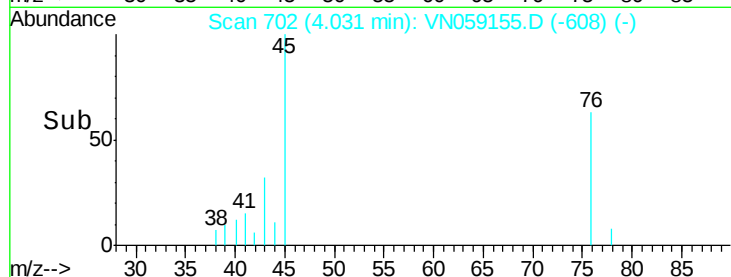
1000

500

0

Time-->

3.95 4.00 4.05 4.10



#25

2-Butanone

Concen: 0.295 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. -0.02 min

Lab File: VN059155.D

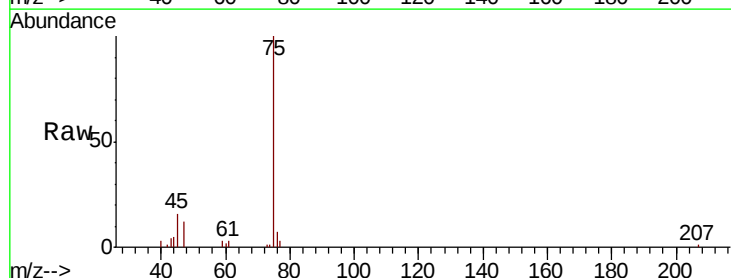
Acq: 11 Nov 2019 13:03

Tgt Ion: 43 Resp: 1130

Ion Ratio Lower Upper

43 100

72 0.0 20.3 30.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.79

600

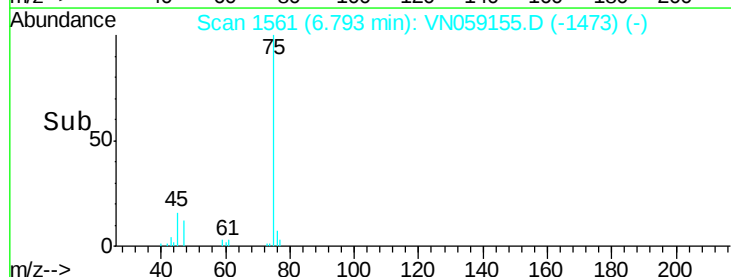
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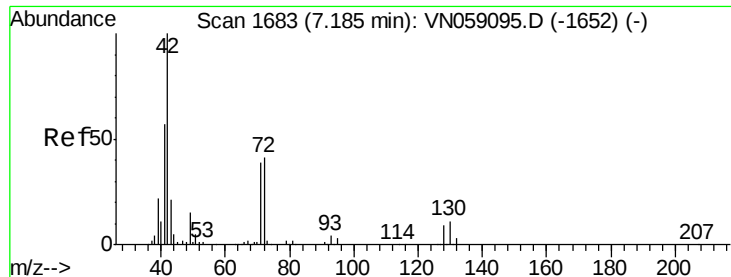
200

0

Time-->

6.75 6.80





#29

Tetrahydrofuran

Concen: 0.225 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VN059155.D

Acq: 11 Nov 2019 13:03

Instrument :

MSVOA_N

ClientSampleId :

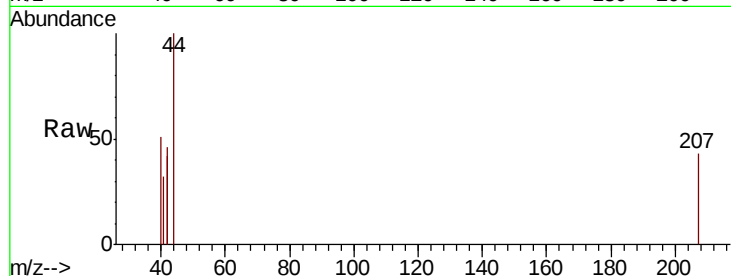
Tot Ion: 42 Resp: 547

Ion Ratio Lower Upper

42 100

72 0.0 33.1 49.7#

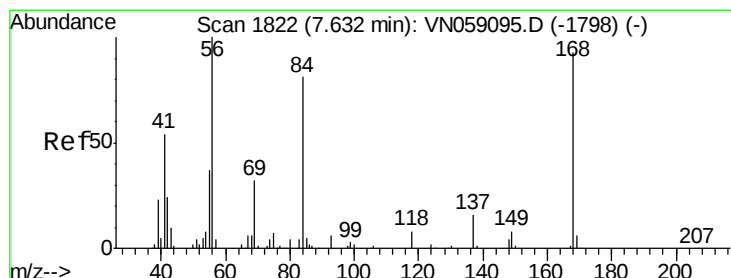
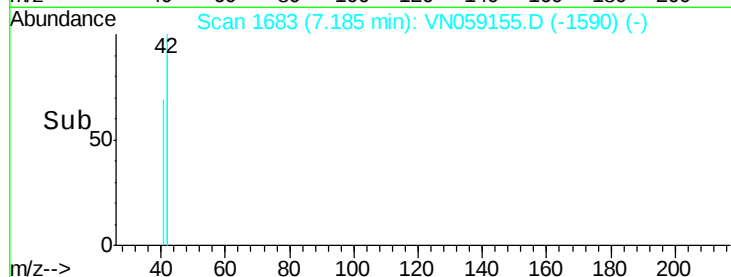
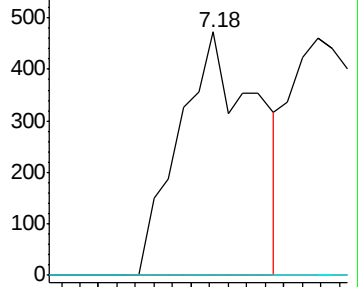
71 0.0 30.9 46.3#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.119 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN059155.D

Acq: 11 Nov 2019 13:03

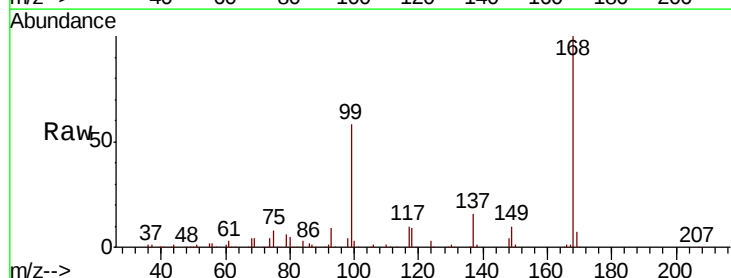
Tgt Ion: 56 Resp: 9733

Ion Ratio Lower Upper

56 100

69 161.5 25.8 38.8#

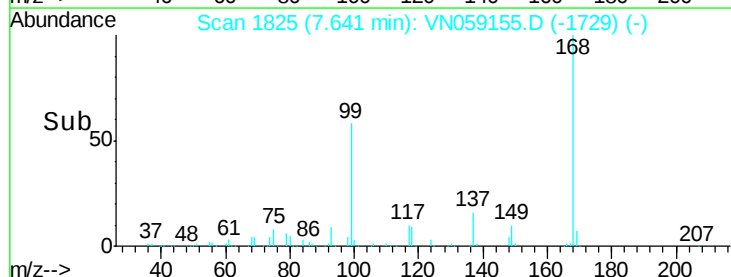
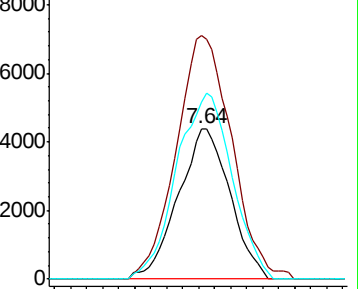
84 117.5 65.0 97.4#

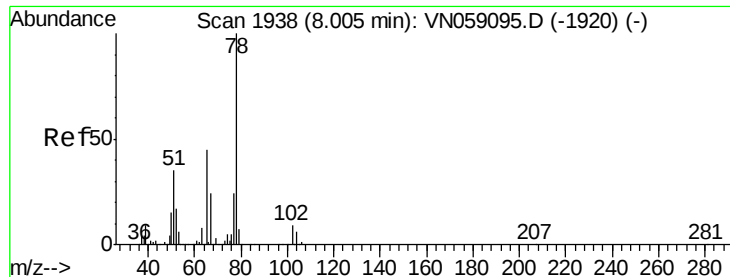


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 52.349 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN059155.D

Acq: 11 Nov 2019 13:03

Instrument :

MSVOA_N

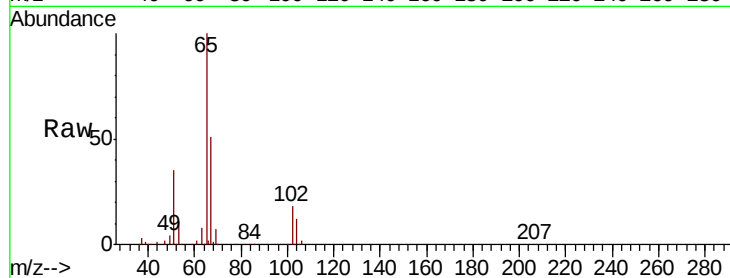
ClientSampled :

Tot Ion: 65 Resp: 292441

Ion Ratio Lower Upper

65 100

67 52.5 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VN059155.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN059155.D (-1845) (-)

8.00

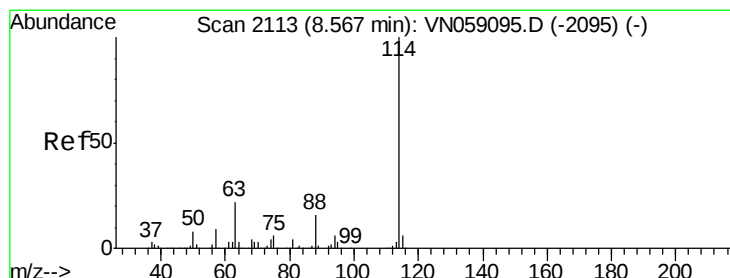
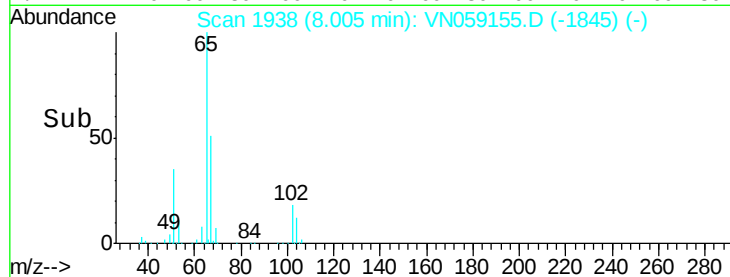
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN059155.D

Acq: 11 Nov 2019 13:03

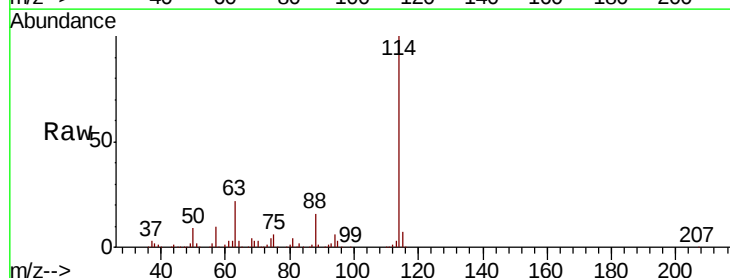
Tgt Ion: 114 Resp: 697741

Ion Ratio Lower Upper

114 100

63 22.4 0.0 43.4

88 16.4 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): VN059155.D (-2020) (-)

Ion 63.00 (62.70 to 63.70): VN059155.D (-2020) (-)

Ion 87.90 (87.60 to 88.60): VN059155.D (-2020) (-)

8.57

400000

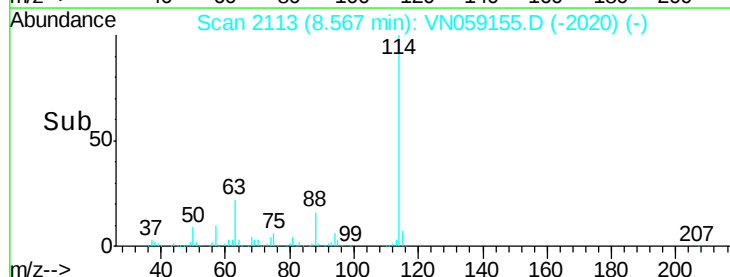
300000

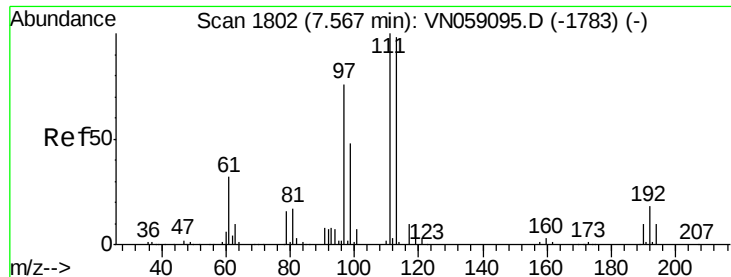
200000

100000

0

Time-->

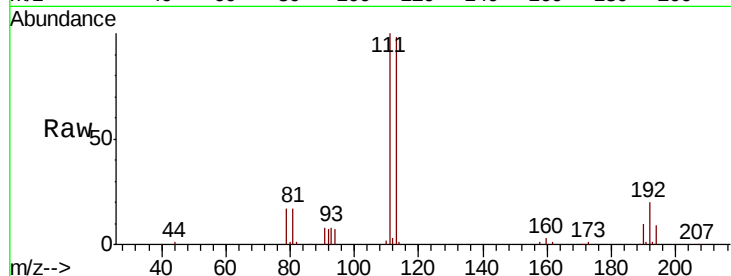




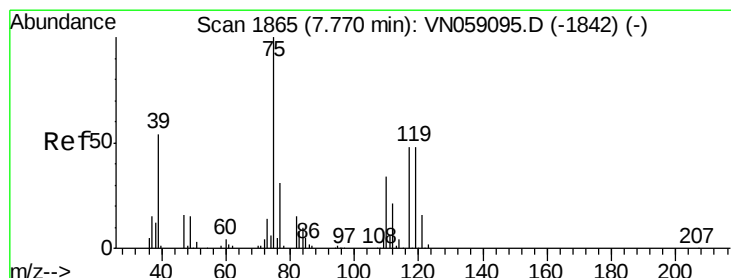
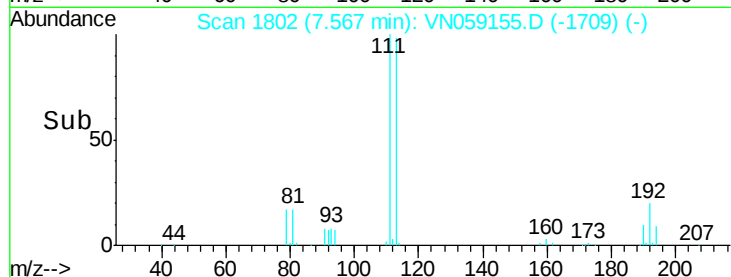
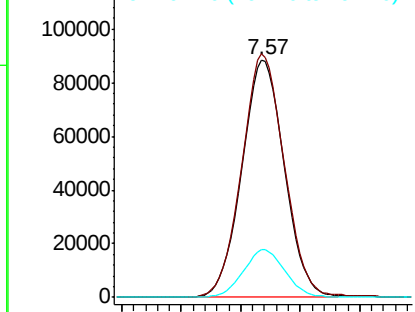
#35
Dibromofluoromethane
Concen: 52.562 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN059155.D
Acq: 11 Nov 2019 13:03

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:113 Resp: 218982
Ion Ratio Lower Upper
113 100
111 103.2 82.8 124.2
192 19.9 16.1 24.1

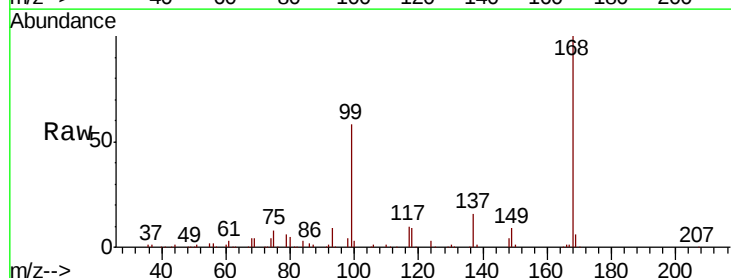


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

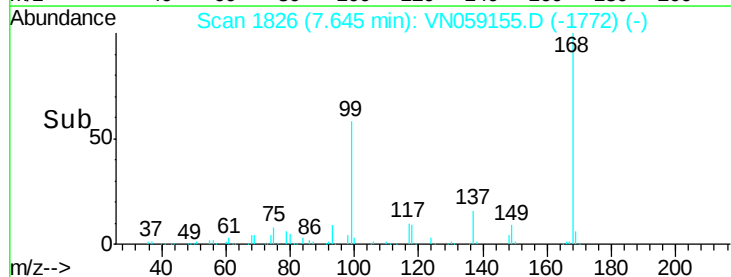
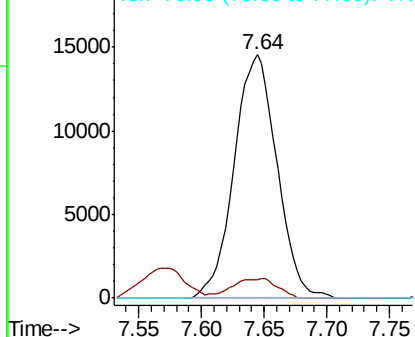


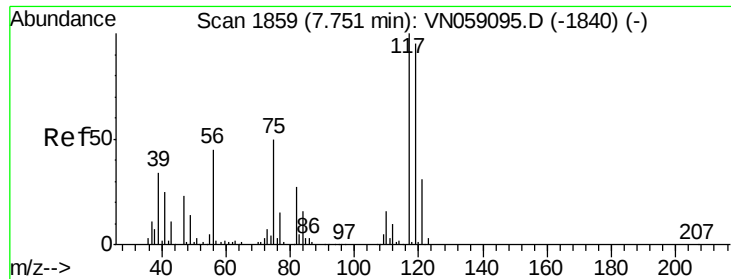
#36
1,1-Dichloropropene
Concen: 5.297 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.13 min
Lab File: VN059155.D
Acq: 11 Nov 2019 13:03

Tgt Ion: 75 Resp: 34543
Ion Ratio Lower Upper
75 100
110 8.5 17.1 51.2#
77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VNO

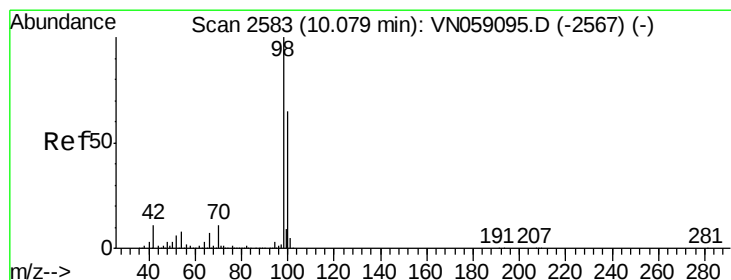
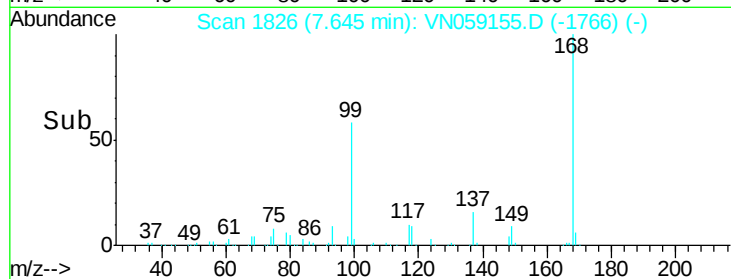
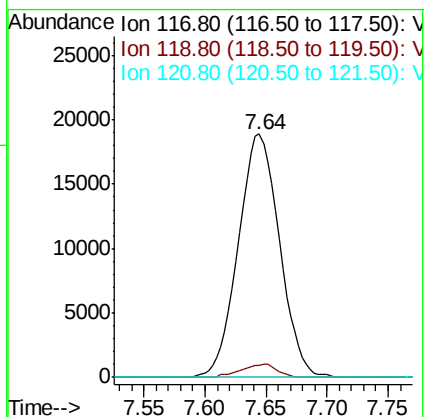
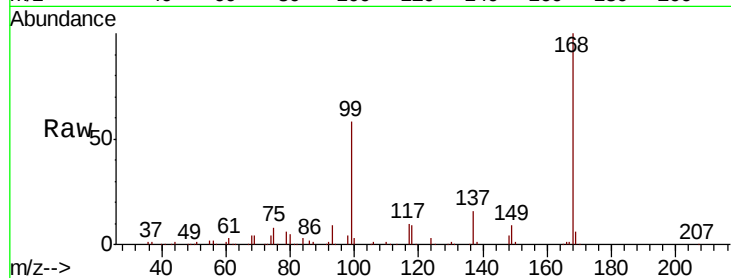




#38
Carbon Tetrachloride
Concen: 6.808 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN059155.D
Acq: 11 Nov 2019 13:03

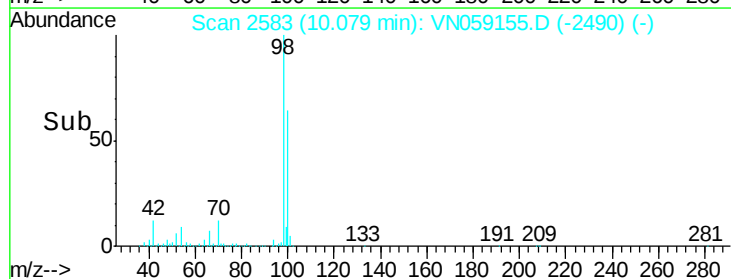
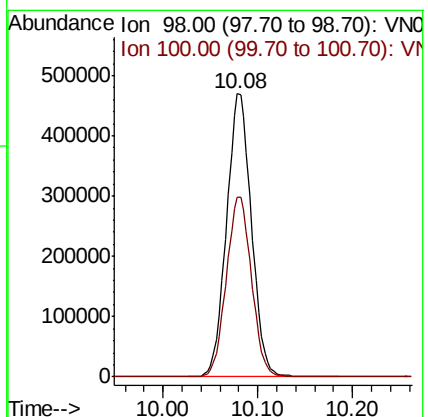
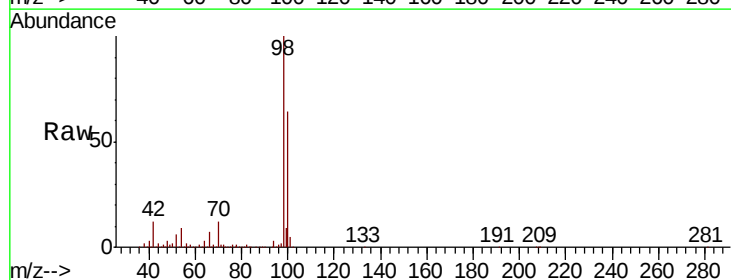
Instrument :
MSVOA_N
ClientSampled :

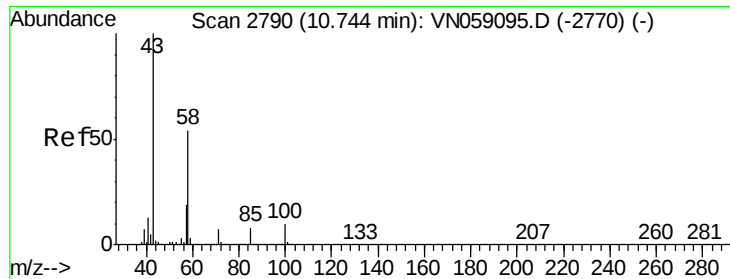
Tot Ion:117 Resp: 44191
Ion Ratio Lower Upper
117 100
119 4.8 75.6 113.4#
121 0.0 24.6 36.8#



#50
Toluene-d8
Concen: 52.374 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN059155.D
Acq: 11 Nov 2019 13:03

Tgt Ion: 98 Resp: 859479
Ion Ratio Lower Upper
98 100
100 64.1 52.2 78.2

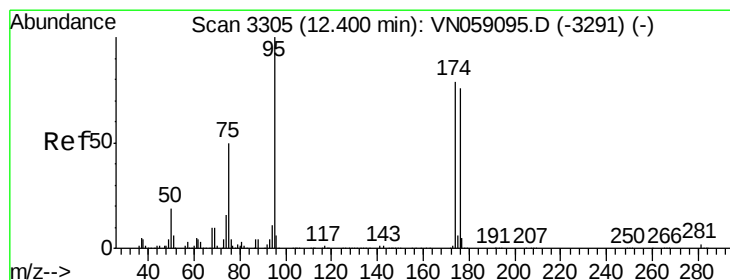
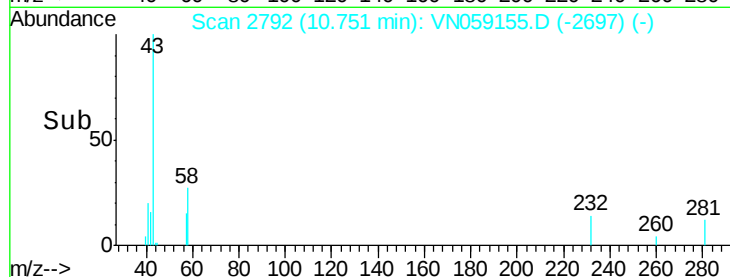
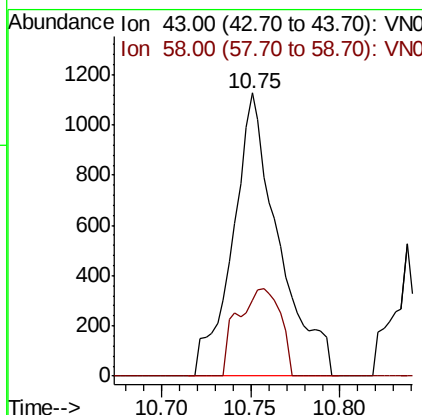
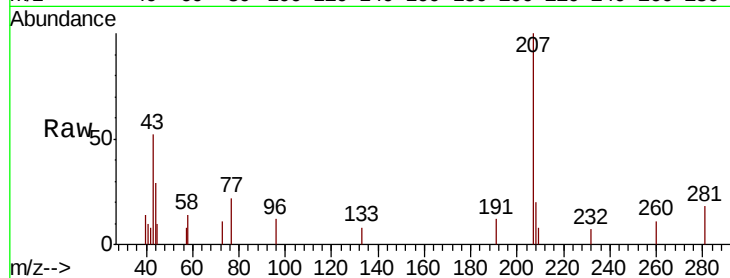




#59
2-Hexanone
Concen: 0.401 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.01 min
Lab File: VN059155.D
Acq: 11 Nov 2019 13:03

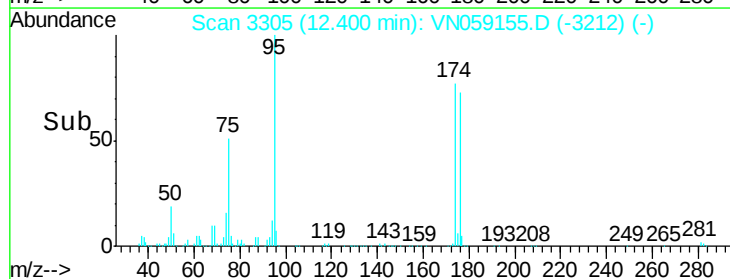
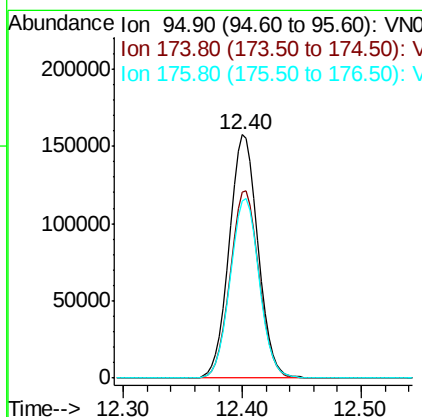
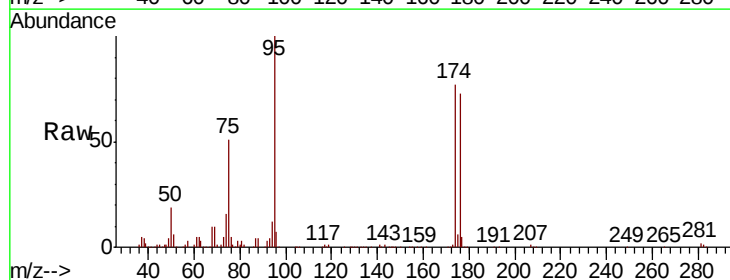
Instrument :
MSVOA_N
ClientSampleId :

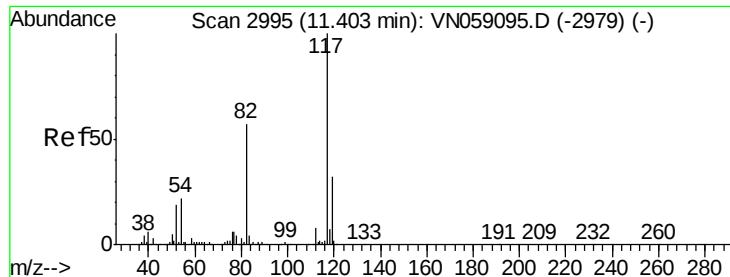
Tot Ion: 43 Resp: 2014
Ion Ratio Lower Upper
43 100
58 28.8 27.3 81.8



#62
4-Bromofluorobenzene
Concen: 44.668 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN059155.D
Acq: 11 Nov 2019 13:03

Tgt Ion: 95 Resp: 264298
Ion Ratio Lower Upper
95 100
174 77.4 0.0 158.2
176 74.6 0.0 151.8

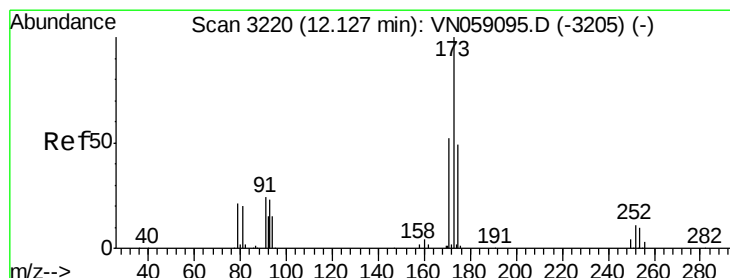
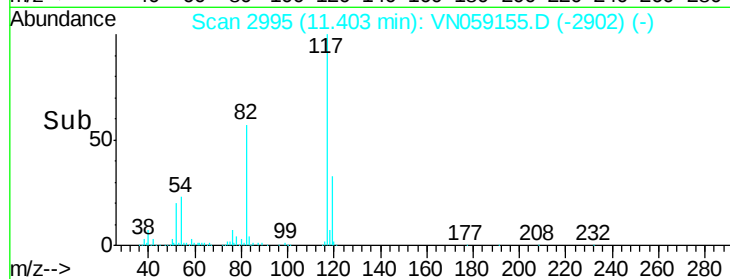
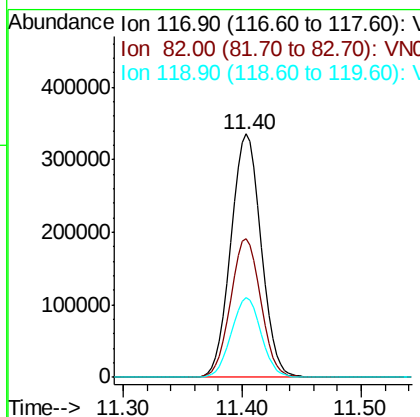
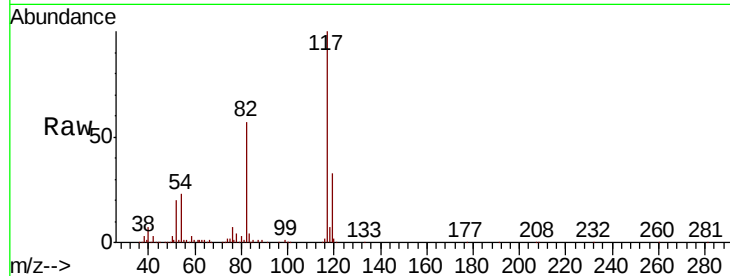




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059155.D
Acq: 11 Nov 2019 13:03

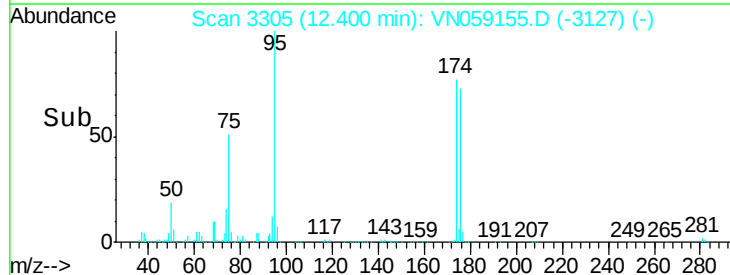
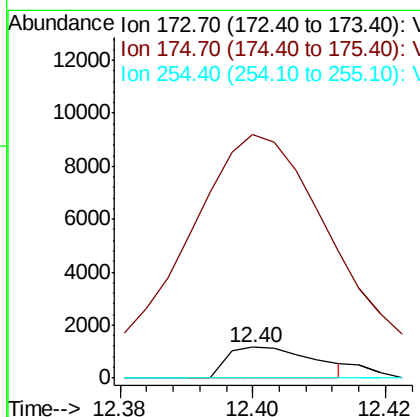
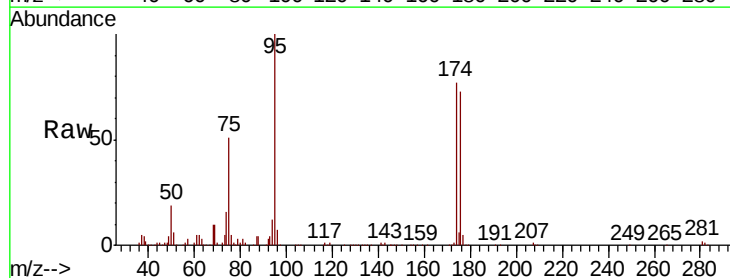
Instrument :
MSVOA_N
ClientSampled :

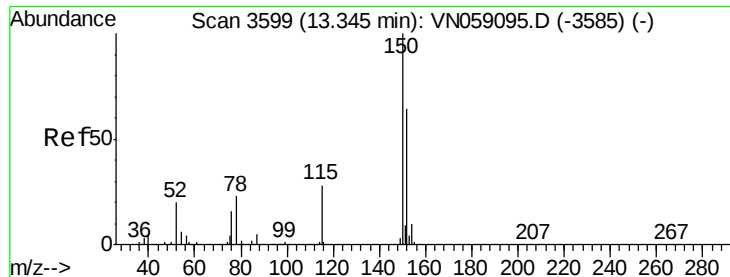
Tot Ion:117 Resp: 591569
Ion Ratio Lower Upper
117 100
82 57.2 45.8 68.8
119 32.5 25.8 38.6



#71
Bromoform
Concen: 0.311 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN059155.D
Acq: 11 Nov 2019 13:03

Tgt Ion:173 Resp: 1046
Ion Ratio Lower Upper
173 100
175 1250.1 24.2 72.6#
254 0.0 0.1 0.1#



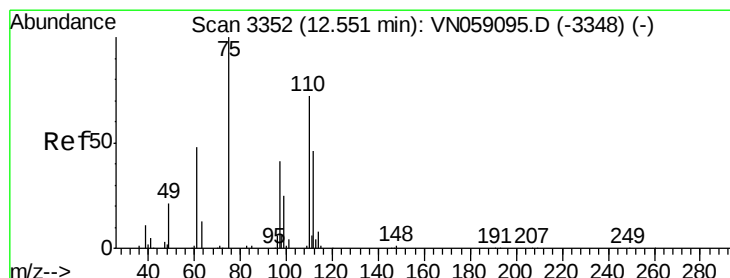
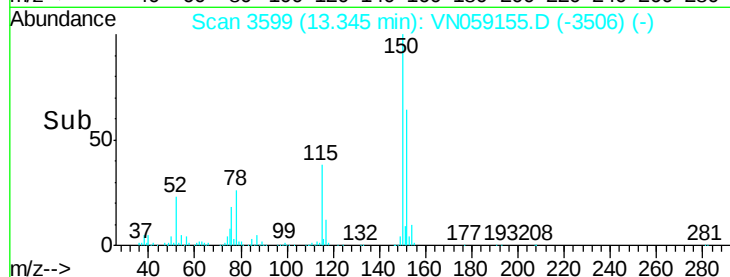
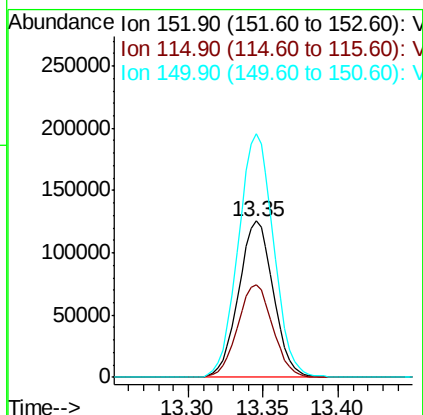
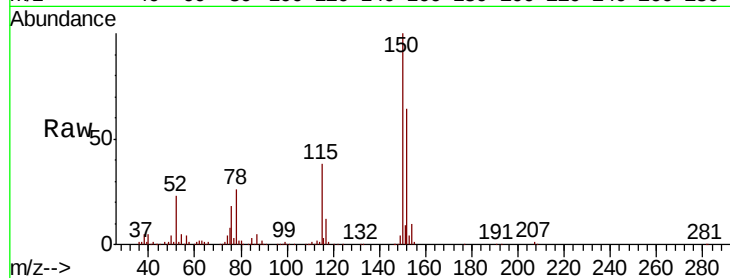


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. -0.00 min
Lab File: VN059155.D
Acq: 11 Nov 2019 13:03

Instrument :
MSVOA_N
ClientSampleId :

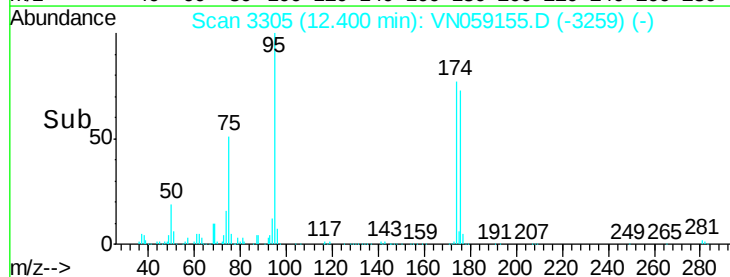
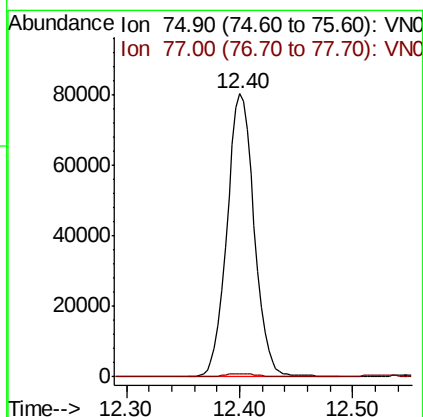
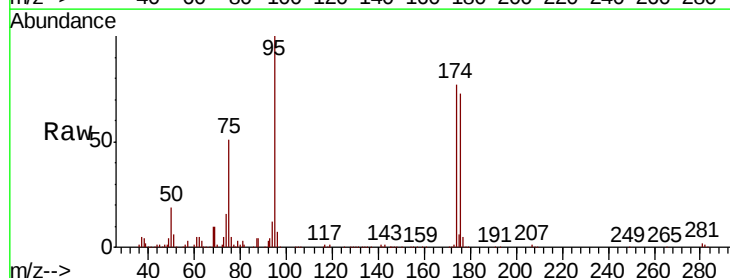
Tot Ion	Ratio	Lower	Upper
152	100		
115	60.3	29.4	88.2
150	159.0	0.0	345.8

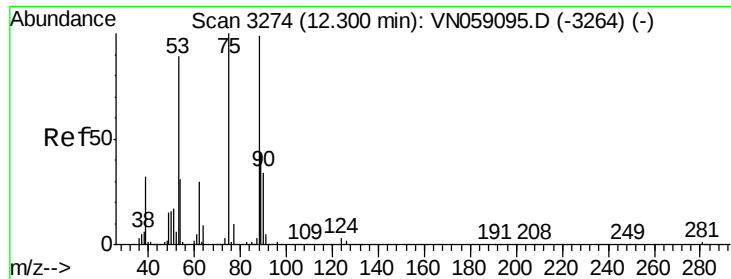


#76

1,2,3-Trichloropropane
Concen: 29.117 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN059155.D
Acq: 11 Nov 2019 13:03

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.4	0.0	0.0#

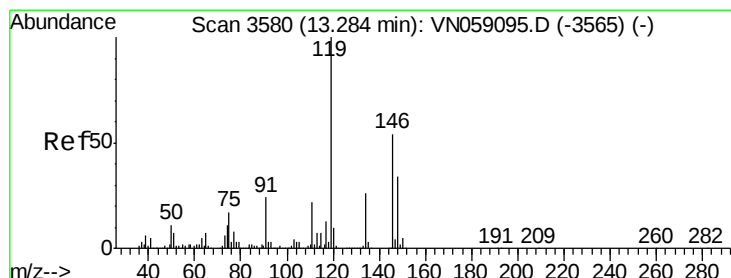
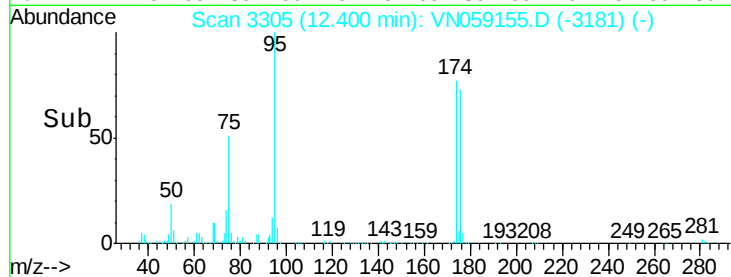
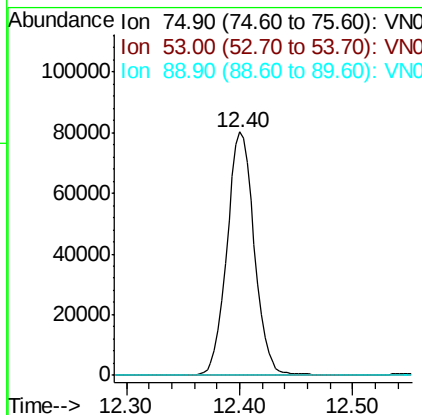
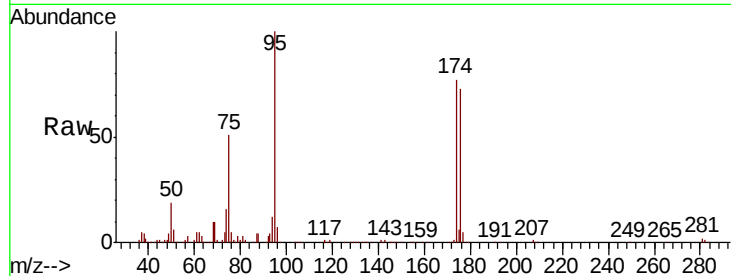




#81
 trans-1,4-Dichloro-2-butene
 Concen: 76.906 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN059155.D
 Acq: 11 Nov 2019 13:03

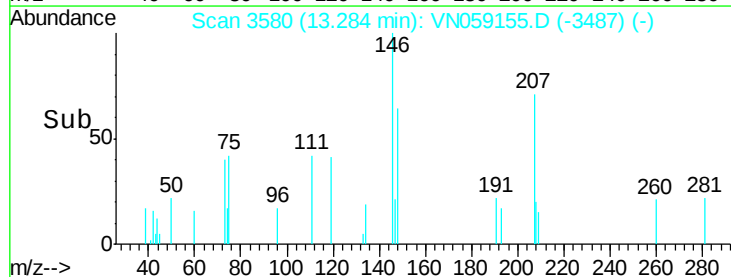
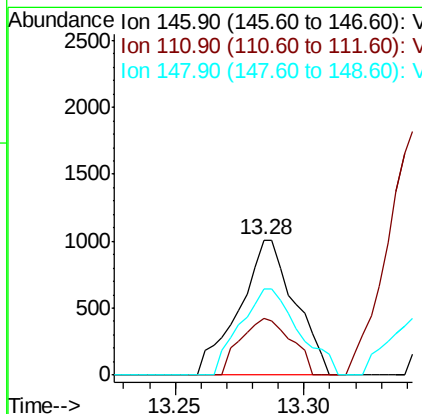
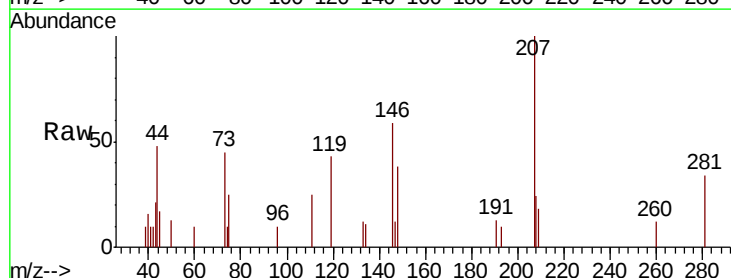
Instrument :
 MSVOA_N
 ClientSampled :

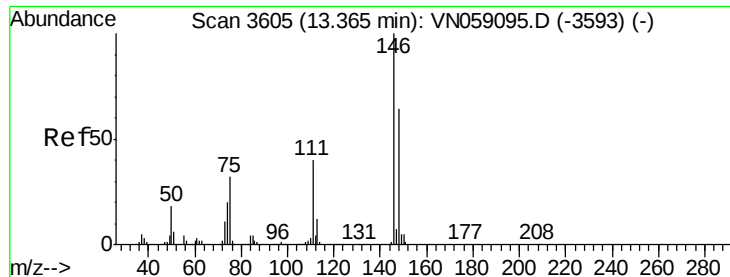
Tot Ion: 75 Resp: 134637
 Ion Ratio Lower Upper
 75 100
 53 0.0 72.2 108.2#
 89 0.0 35.8 53.8#



#87
 1,3-Dichlorobenzene
 Concen: 0.237 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN059155.D
 Acq: 11 Nov 2019 13:03

Tgt Ion: 146 Resp: 1509
 Ion Ratio Lower Upper
 146 100
 111 38.4 20.4 61.3
 148 67.2 32.2 96.6





#88

1,4-Dichlorobenzene

Concen: 0.237 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.08 min

Lab File: VN059155.D

Acq: 11 Nov 2019 13:03

Instrument :

MSVOA_N

ClientSampled :

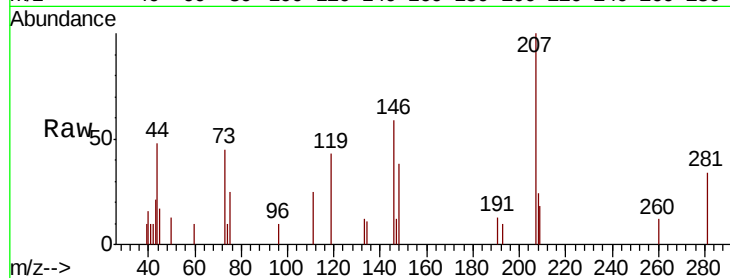
Tot Ion:146 Resp: 1509

Ion Ratio Lower Upper

146 100

111 38.4 20.3 60.9

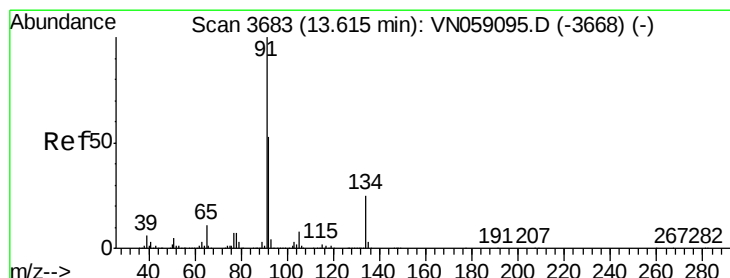
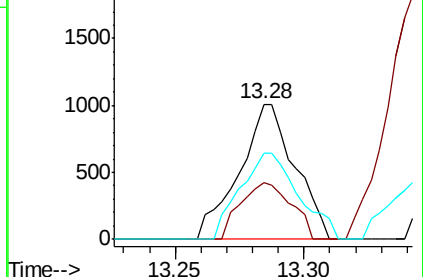
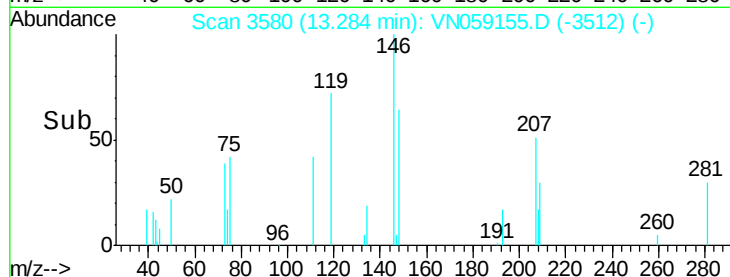
148 67.2 31.9 95.7



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 0.212 ug/l

RT: 13.62 min Scan# 3684

Delta R.T. 0.00 min

Lab File: VN059155.D

Acq: 11 Nov 2019 13:03

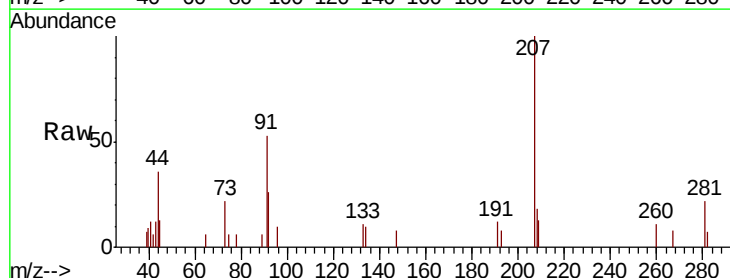
Tgt Ion: 91 Resp: 2299

Ion Ratio Lower Upper

91 100

92 58.2 26.1 78.3

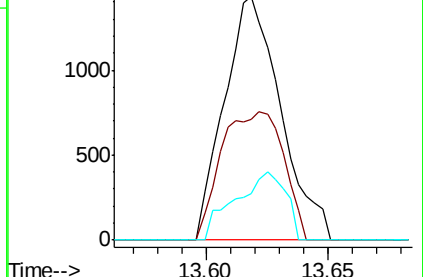
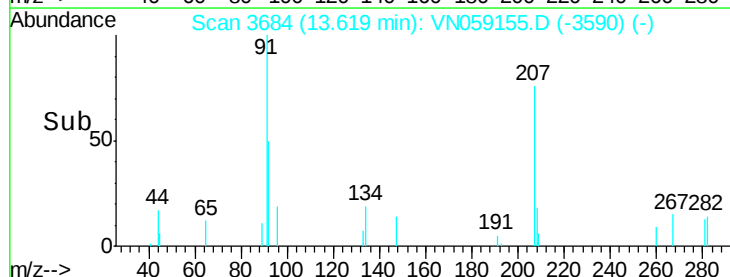
134 25.1 12.6 37.8

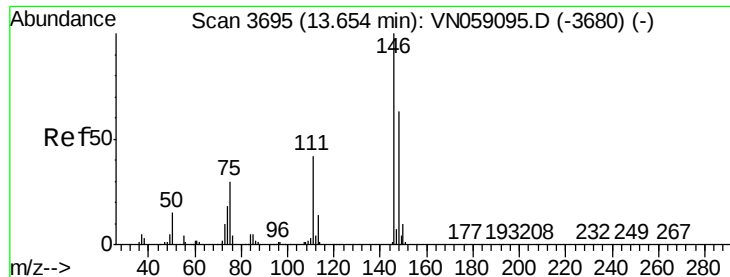


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V





#91

1,2-Dichlorobenzene

Concen: 0.256 ug/l

RT: 13.66 min Scan# 3697

Delta R.T. 0.01 min

Lab File: VN059155.D

Acq: 11 Nov 2019 13:03

Instrument :

MSVOA_N

ClientSampled :

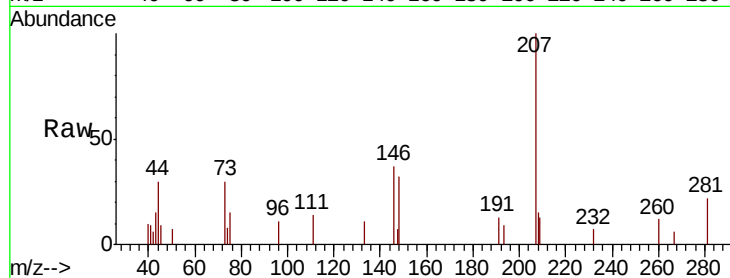
Tot Ion:146 Resp: 1598

Ion Ratio Lower Upper

146 100

111 37.4 21.2 63.6

148 72.7 31.6 94.7



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

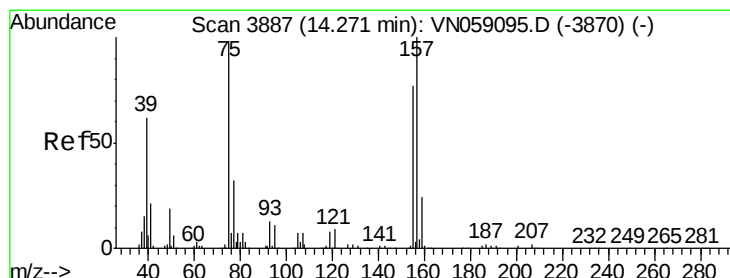
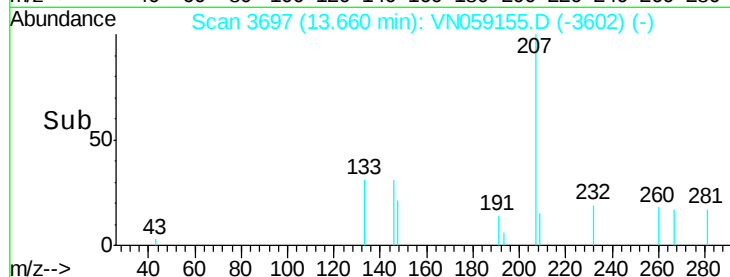
13.66

1000

500

0

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.337 ug/l

RT: 14.27 min Scan# 3888

Delta R.T. 0.00 min

Lab File: VN059155.D

Acq: 11 Nov 2019 13:03

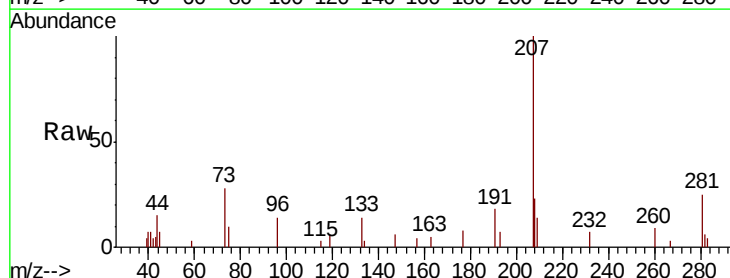
Tgt Ion: 75 Resp: 312

Ion Ratio Lower Upper

75 100

155 20.5 40.2 120.6#

157 43.6 51.8 155.5#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

14.27

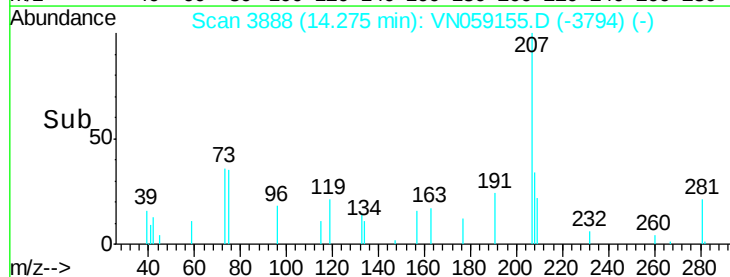
600

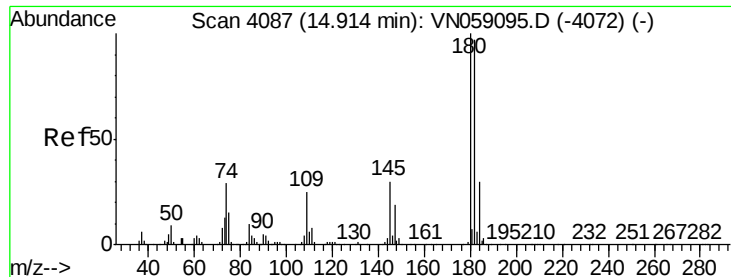
400

200

0

Time-->

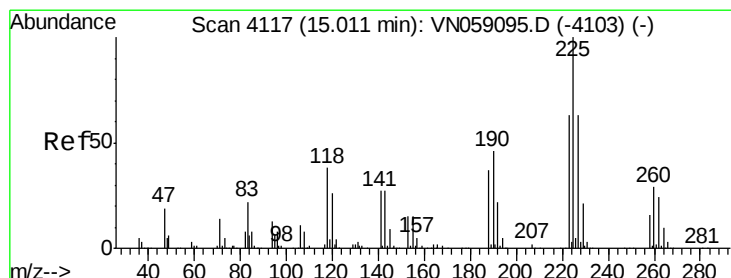
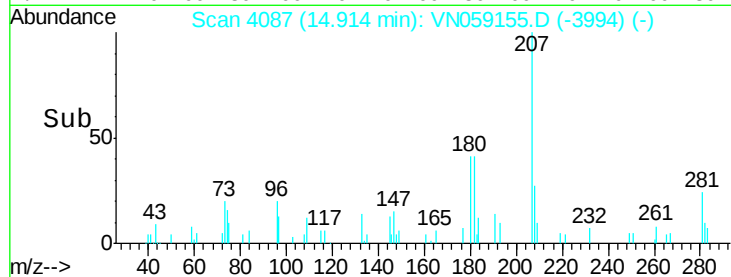
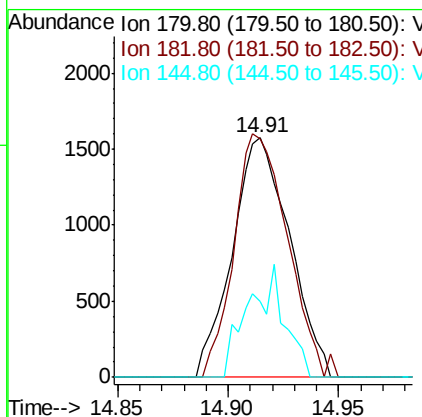
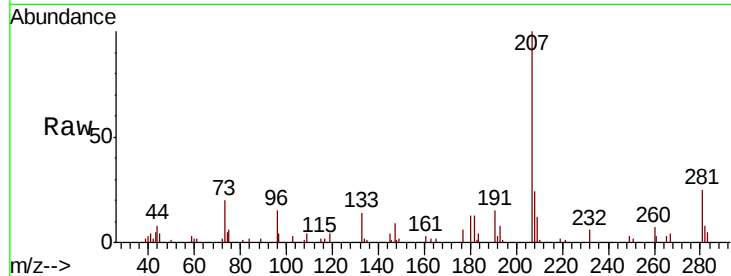




#93
 1,2,4-Trichlorobenzene
 Concen: 3.750 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN059155.D
 Acq: 11 Nov 2019 13:03

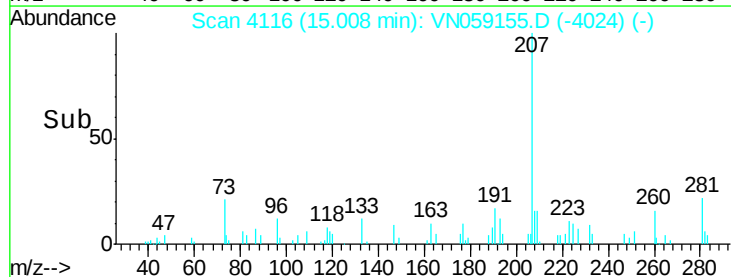
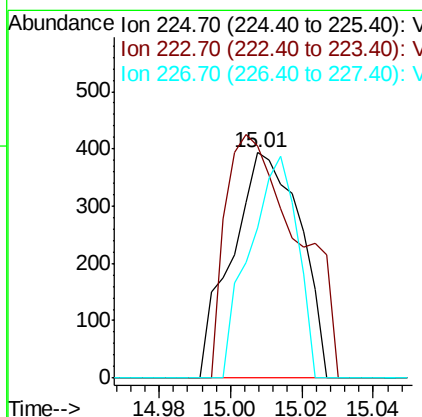
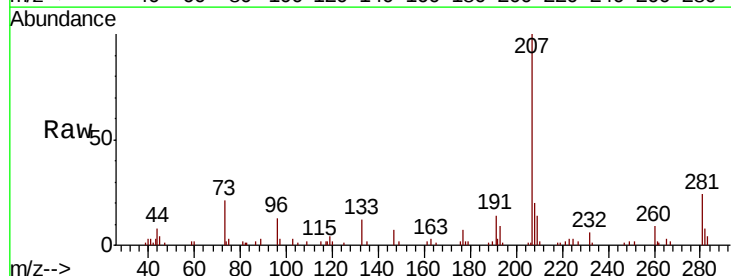
Instrument :
 MSVOA_N
 ClientSampled :

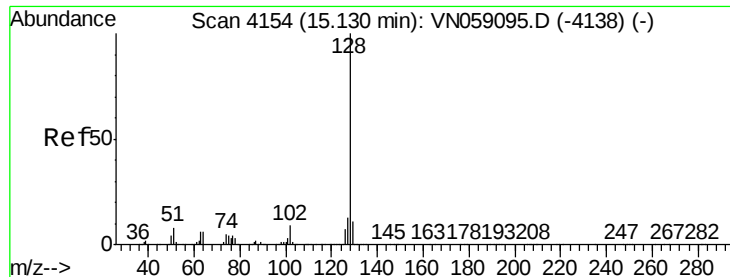
Tot Ion:180 Resp: 2841
 Ion Ratio Lower Upper
 180 100
 182 95.1 48.1 144.3
 145 30.0 15.1 45.3



#94
 Hexachlorobutadiene
 Concen: 0.241 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN059155.D
 Acq: 11 Nov 2019 13:03

Tgt Ion:225 Resp: 519
 Ion Ratio Lower Upper
 225 100
 223 114.3 31.3 93.9#
 227 69.0 31.5 94.5





#95

Naphthalene

Concen: 4.057 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN059155.D

Acq: 11 Nov 2019 13:03

Instrument :

MSVOA_N

ClientSampleId :

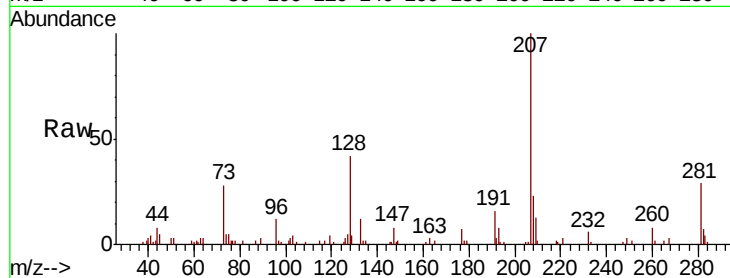
Tot Ion:128 Resp: 11342

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.2

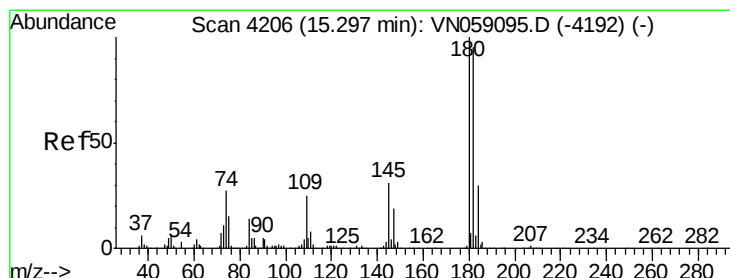
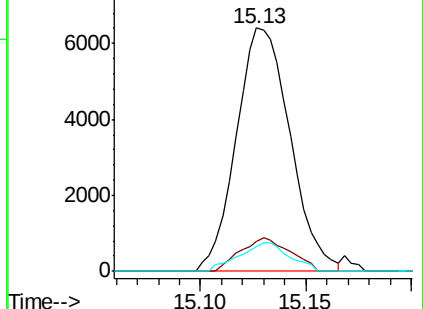
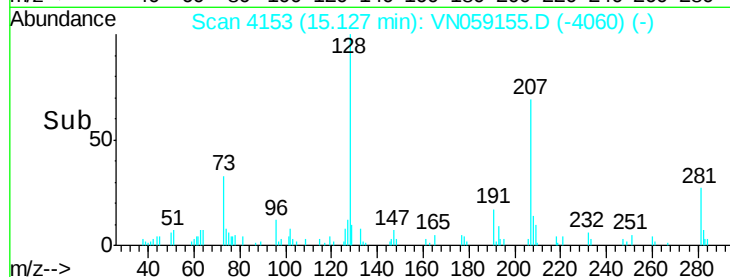
129 10.8 8.6 12.8



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



#96

1,2,3-Trichlorobenzene

Concen: 1.076 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. -0.00 min

Lab File: VN059155.D

Acq: 11 Nov 2019 13:03

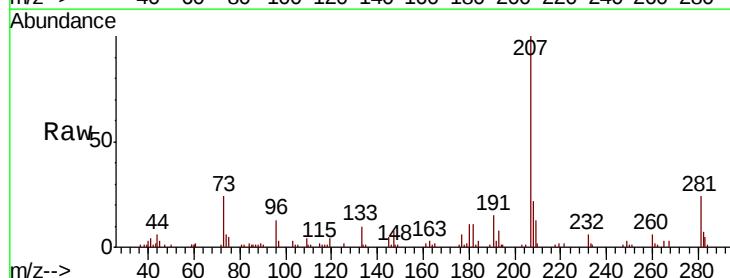
Tgt Ion:180 Resp: 3772

Ion Ratio Lower Upper

180 100

182 97.4 47.3 141.8

145 43.7 15.8 47.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

