

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100119\
 Data File : VN058472.D
 Acq On : 1 Oct 2019 19:15
 Operator : JC/SP
 Sample : K5110-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2

Quant Time: Oct 02 07:39:57 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	400804	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	657206	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	556907	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	208731	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	293762	50.15	ug/l	0.00
Spiked Amount			Recovery	=	100.30%	
35) Dibromofluoromethane	7.57	113	208210	51.69	ug/l	0.00
Spiked Amount			Recovery	=	103.38%	
50) Toluene-d8	10.09	98	818870	51.90	ug/l	0.00
Spiked Amount			Recovery	=	103.80%	
62) 4-Bromofluorobenzene	12.41	95	257594	45.15	ug/l	0.00
Spiked Amount			Recovery	=	90.30%	

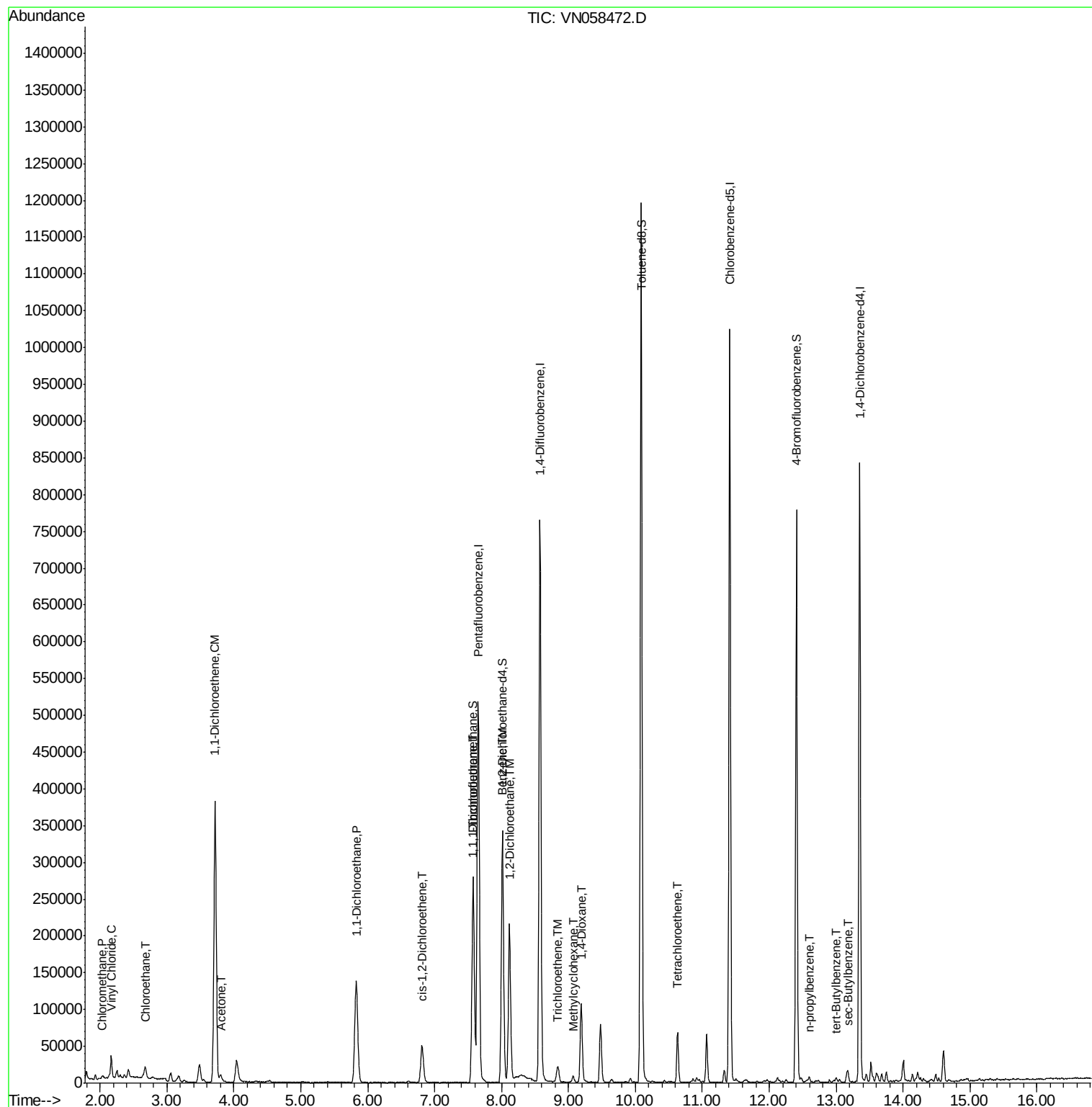
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	3334	0.690	ug/l	95
4) Vinyl Chloride	2.17	62	25464	5.380	ug/l	97
6) Chloroethane	2.69	64	2962	1.044	ug/l	89
12) 1,1-Dichloroethene	3.72	96	184404	48.771	ug/l	99
16) Acetone	3.81	43	15750	7.888	ug/l	92
24) 1,1-Dichloroethane	5.83	63	215034	25.804	ug/l	100
27) cis-1,2-Dichloroethene	6.82	96	30068	6.119	ug/l	92
32) 1,1,1-Trichloroethane	7.56	97	3364	0.485	ug/l #	52
39) Methylcyclohexane	9.07	83	3048	0.415	ug/l	96
40) Benzene	8.03	78	7785	0.431	ug/l	96
42) 1,2-Dichloroethane	8.11	62	21094	3.002	ug/l	98
44) Trichloroethene	8.82	130	4200	0.942	ug/l	85
49) 1,4-Dioxane	9.19	88	82568	1353.547	ug/l #	95
64) Tetrachloroethene	10.63	164	14874	4.204	ug/l	93
78) n-propylbenzene	12.60	91	6032	0.347	ug/l	99
83) tert-Butylbenzene	13.00	119	3219	0.295	ug/l	86
85) sec-Butylbenzene	13.18	105	7970	0.556	ug/l #	54

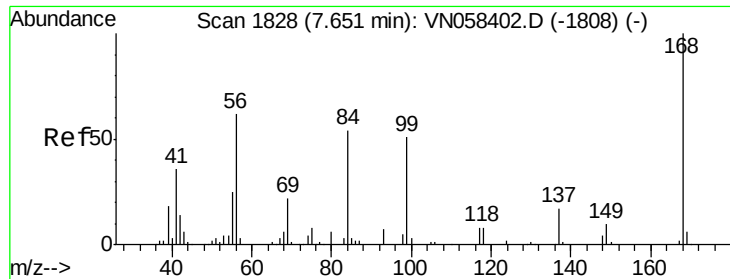
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN058472.D

Acq: 1 Oct 2019 19:15

Instrument :

MSVOA_N

ClientSampleId :

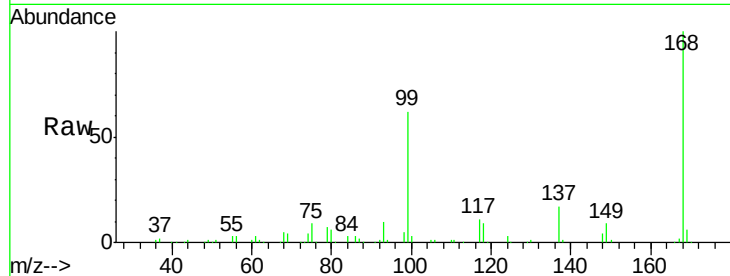
MW-2

Tot Ion:168 Resp: 400804

Ion Ratio Lower Upper

168 100

99 62.1 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

150000

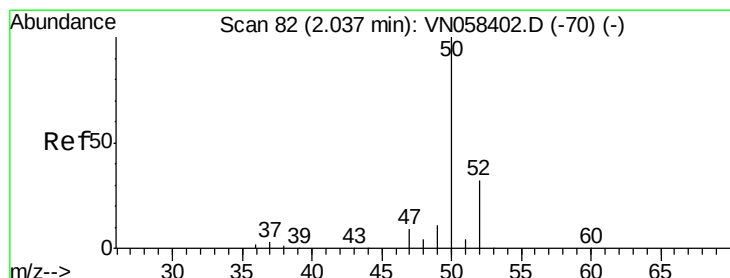
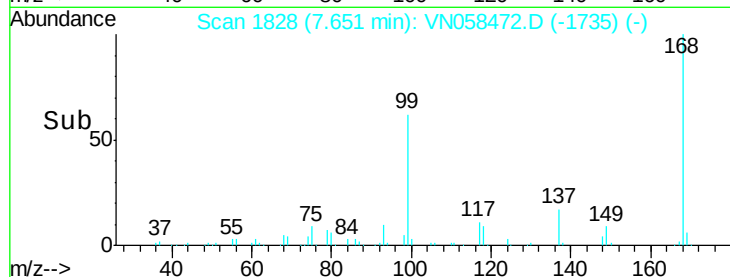
100000

50000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: 0.690 ug/l

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN058472.D

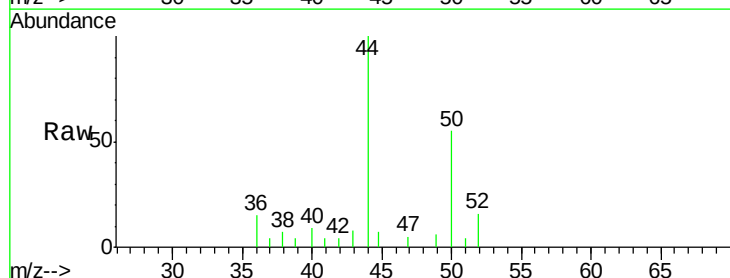
Acq: 1 Oct 2019 19:15

Tgt Ion: 50 Resp: 3334

Ion Ratio Lower Upper

50 100

52 29.7 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.03

2500

2000

1500

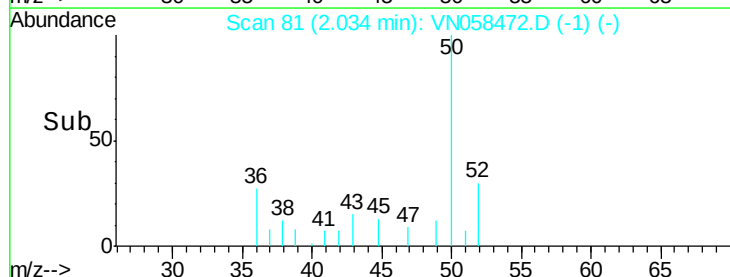
1000

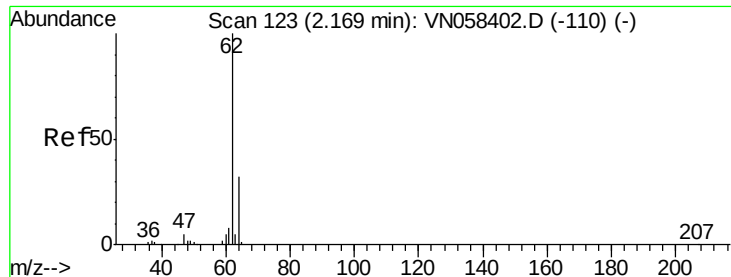
500

0

2.00 2.05

Time-->





#4

Vinyl Chloride

Concen: 5.380 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058472.D

Acq: 1 Oct 2019 19:15

Instrument :

MSVOA_N

ClientSampled :

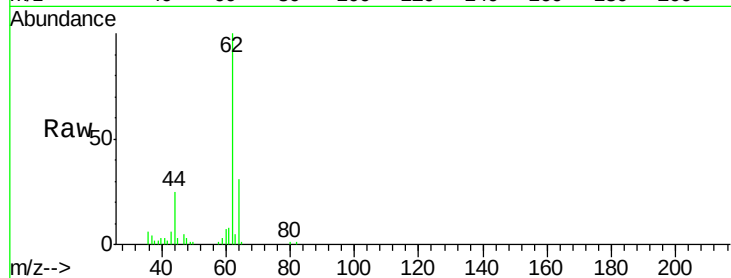
MW-2

Tot Ion: 62 Resp: 25464

Ion Ratio Lower Upper

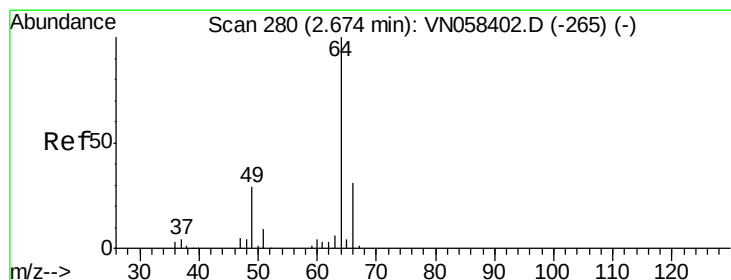
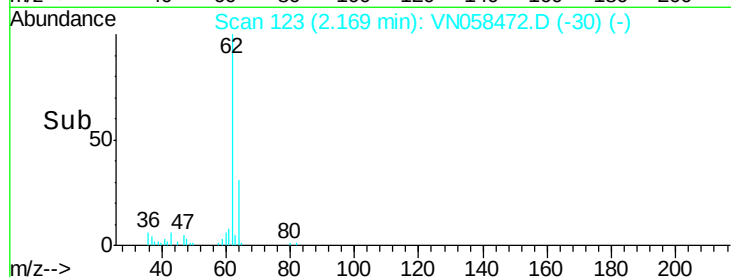
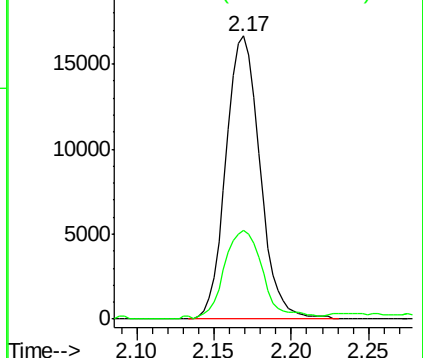
62 100

64 30.2 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0



#6

Chloroethane

Concen: 1.044 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.01 min

Lab File: VN058472.D

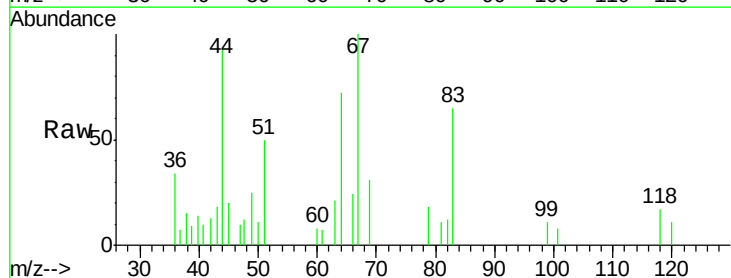
Acq: 1 Oct 2019 19:15

Tgt Ion: 64 Resp: 2962

Ion Ratio Lower Upper

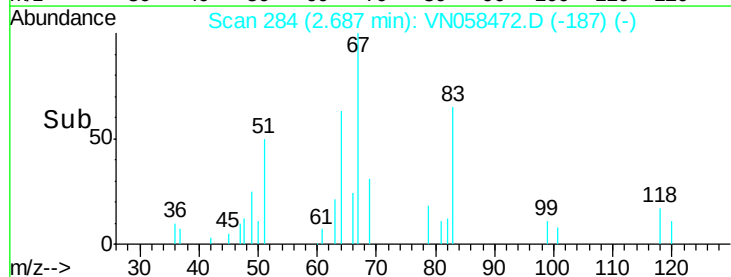
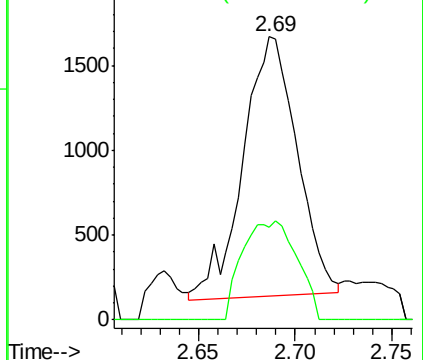
64 100

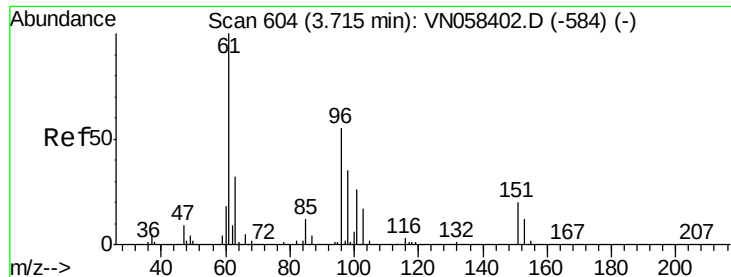
66 36.5 24.4 36.6



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

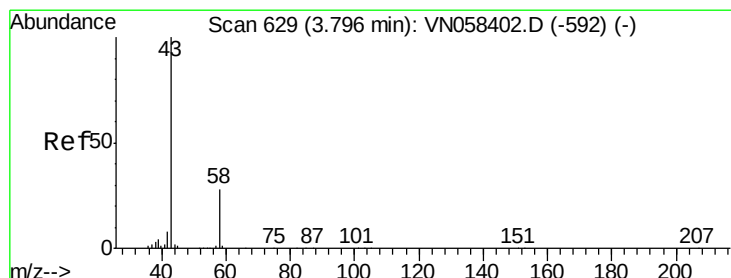
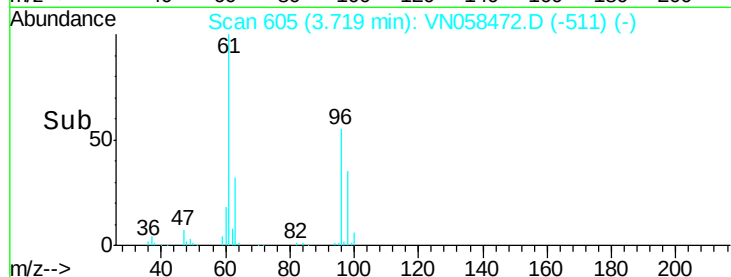
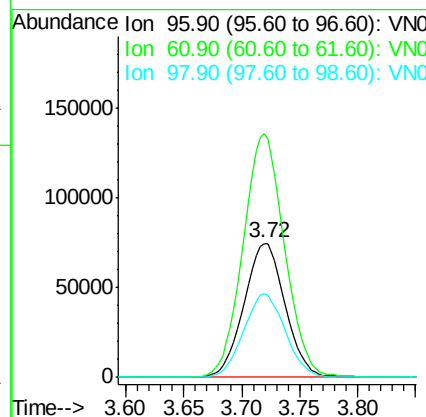
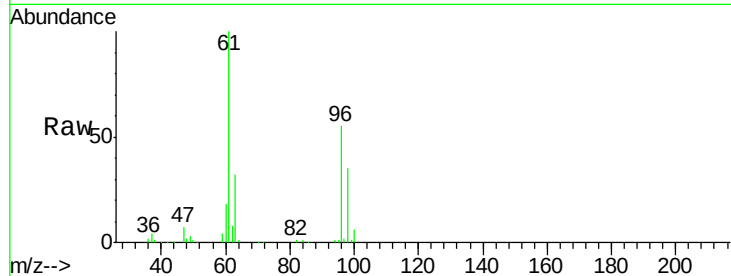




#12
 1,1-Dichloroethene
 Concen: 48.771 ug/l
 RT: 3.72 min Scan# 605
 Delta R.T. 0.00 min
 Lab File: VN058472.D
 Acq: 1 Oct 2019 19:15

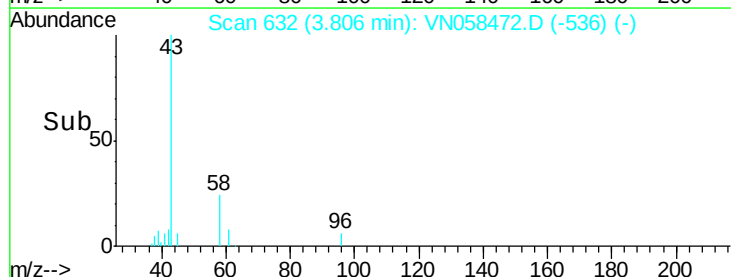
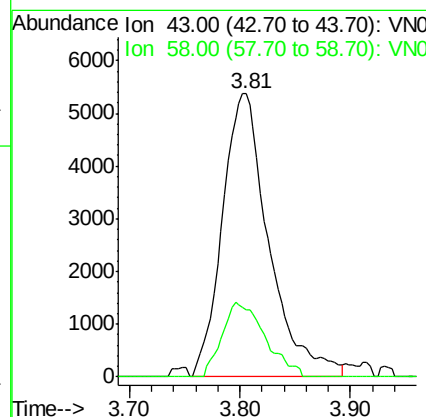
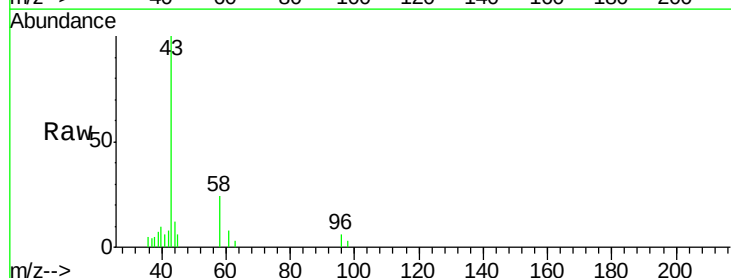
Instrument :
 MSVOA_N
 ClientSampled :
 MW-2

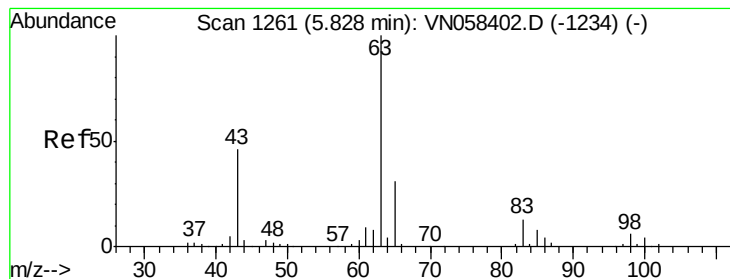
Tot Ion: 96 Resp: 184404
 Ion Ratio Lower Upper
 96 100
 61 181.6 146.7 220.1
 98 62.7 51.3 76.9



#16
 Acetone
 Concen: 7.888 ug/l
 RT: 3.81 min Scan# 632
 Delta R.T. 0.01 min
 Lab File: VN058472.D
 Acq: 1 Oct 2019 19:15

Tgt Ion: 43 Resp: 15750
 Ion Ratio Lower Upper
 43 100
 58 23.7 22.4 33.6





#24

1,1-Dichloroethane

Concen: 25.804 ug/l

RT: 5.83 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VN058472.D

Acq: 1 Oct 2019 19:15

Instrument :

MSVOA_N

ClientSampled :

MW-2

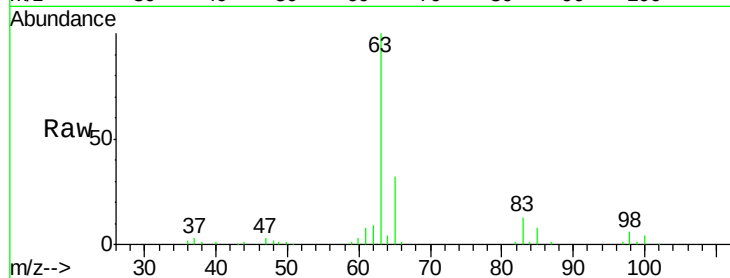
Tot Ion: 63 Resp: 215034

Ion Ratio Lower Upper

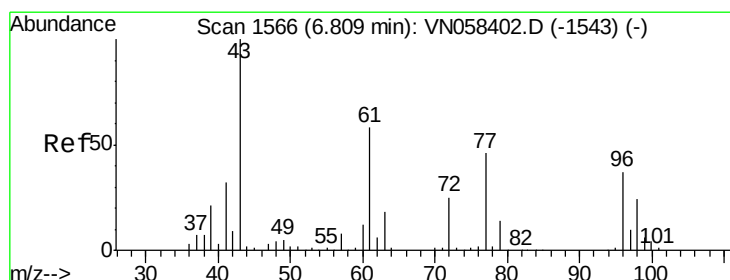
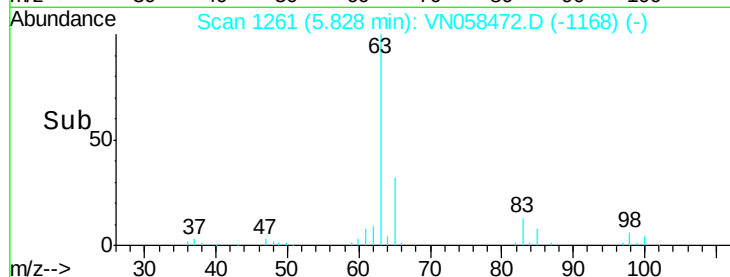
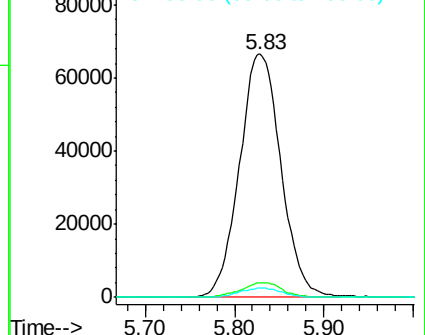
63 100

98 6.1 3.0 9.0

100 3.7 2.0 5.8



Abundance Ion 62.90 (62.60 to 63.60): VN0
Ion 97.90 (97.60 to 98.60): VN0
Ion 99.90 (99.60 to 100.60): VN0



#27

cis-1,2-Dichloroethene

Concen: 6.119 ug/l

RT: 6.82 min Scan# 1568

Delta R.T. 0.01 min

Lab File: VN058472.D

Acq: 1 Oct 2019 19:15

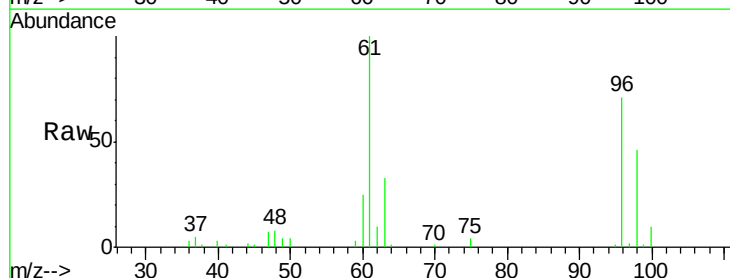
Tgt Ion: 96 Resp: 30068

Ion Ratio Lower Upper

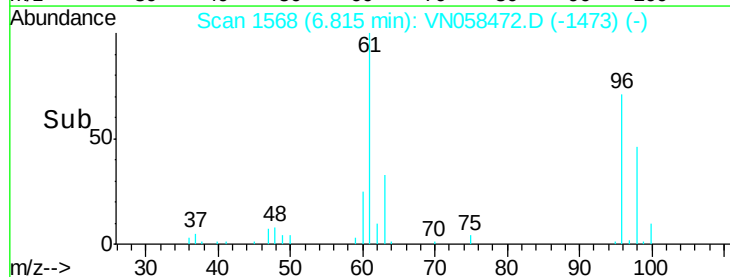
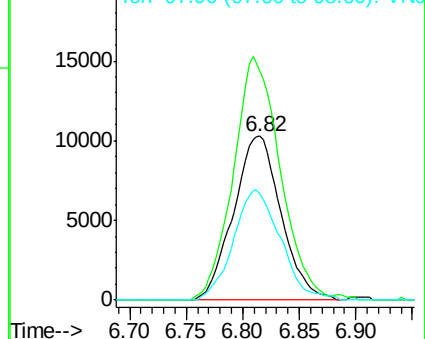
96 100

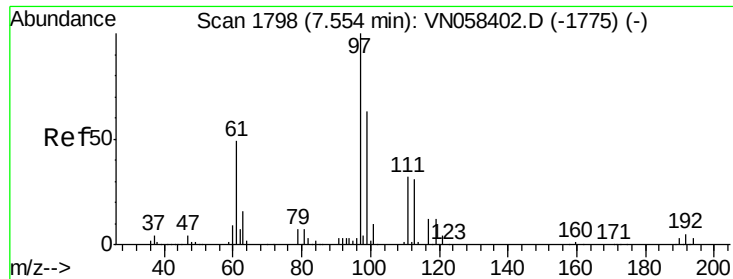
61 146.2 0.0 318.8

98 66.4 0.0 129.8



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0

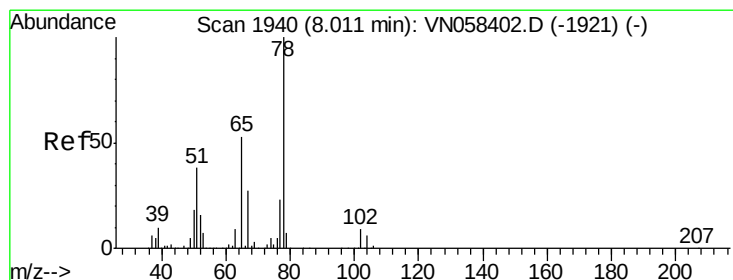
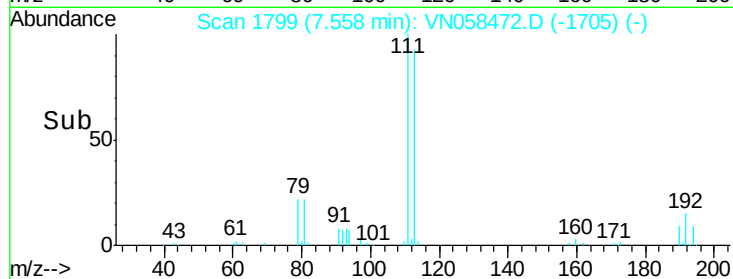
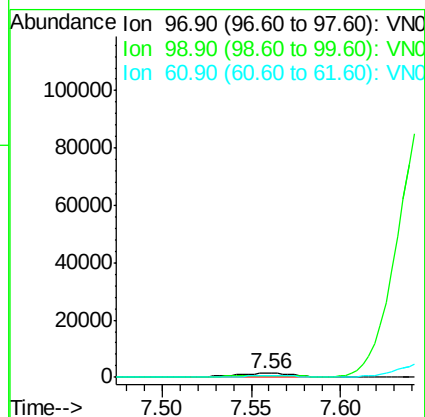
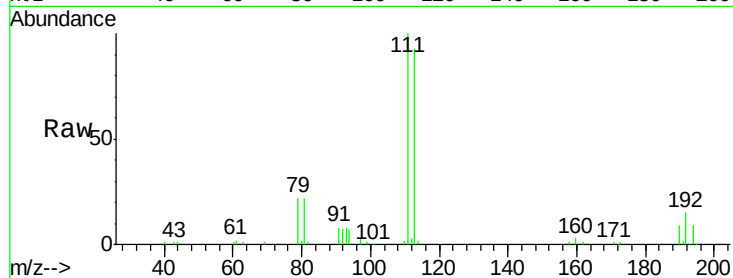




#32
 1,1,1-Trichloroethane
 Concen: 0.485 ug/l
 RT: 7.56 min Scan# 1799
 Delta R.T. 0.00 min
 Lab File: VN058472.D
 Acq: 1 Oct 2019 19:15

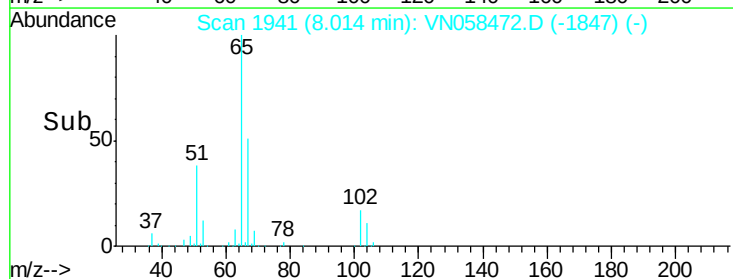
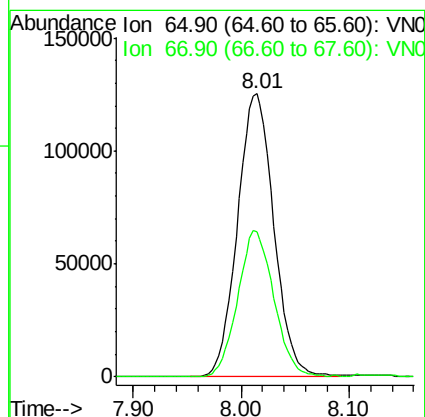
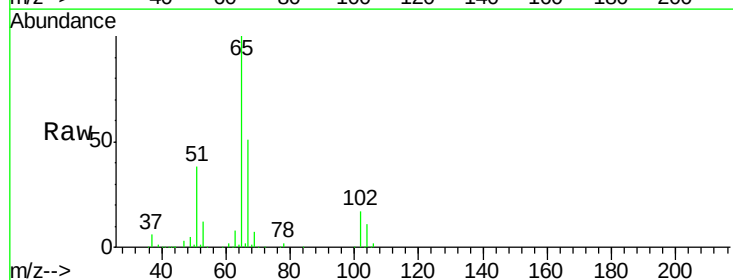
Instrument :
 MSVOA_N
 ClientSampled :
 MW-2

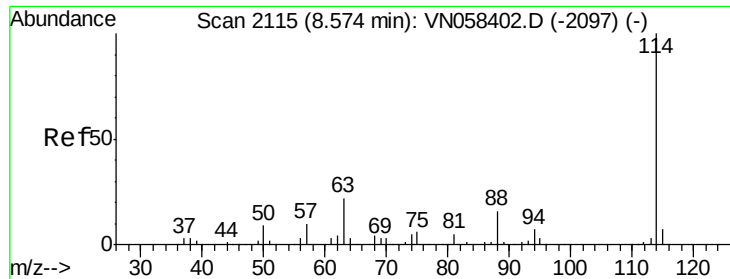
Tot Ion: 97 Resp: 3364
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.1 76.7#
 61 46.2 39.2 58.8



#33
 1,2-Dichloroethane-d4
 Concen: 50.155 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058472.D
 Acq: 1 Oct 2019 19:15

Tgt Ion: 65 Resp: 293762
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 102.4

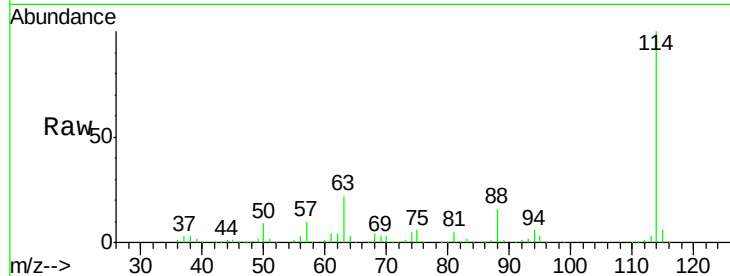




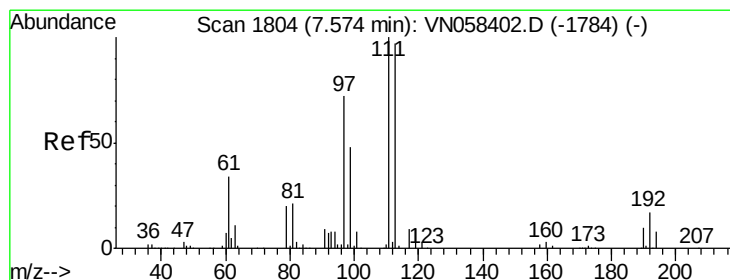
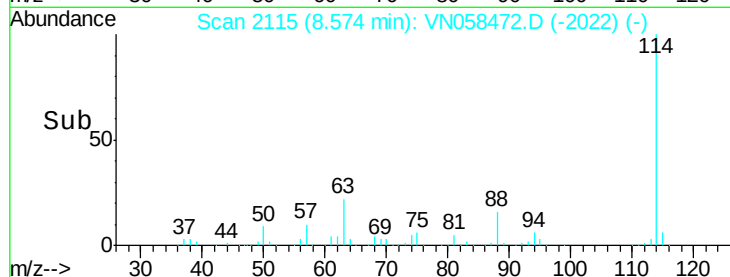
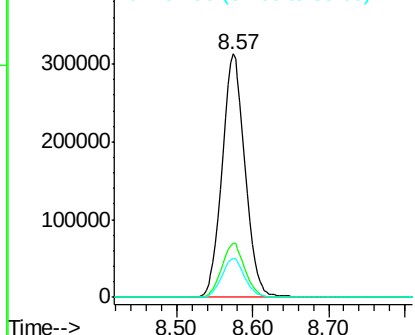
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2115
Delta R.T. 0.00 min
Lab File: VN058472.D
Acq: 1 Oct 2019 19:15

Instrument :
MSVOA_N
ClientSampleId :
MW-2

Tot Ion:114 Resp: 657206
Ion Ratio Lower Upper
114 100
63 22.4 0.0 45.0
88 15.9 0.0 32.2

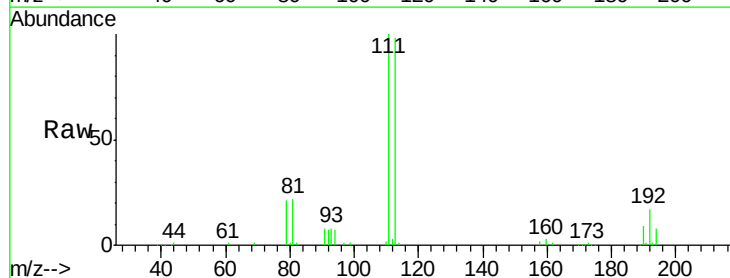


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

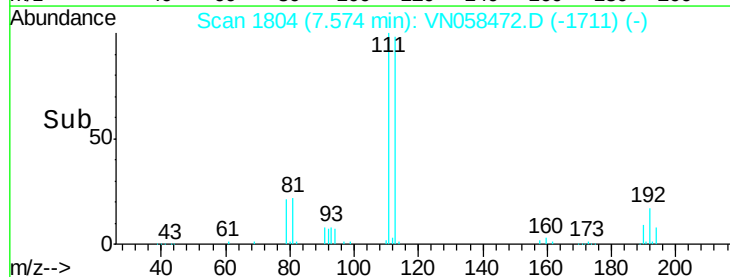
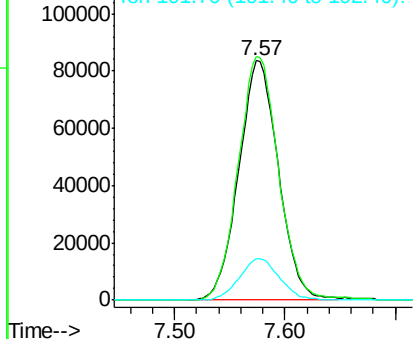


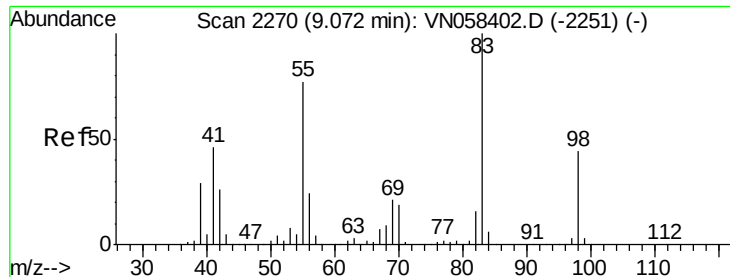
#35
Dibromofluoromethane
Concen: 51.691 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN058472.D
Acq: 1 Oct 2019 19:15

Tgt Ion:113 Resp: 208210
Ion Ratio Lower Upper
113 100
111 103.8 83.4 125.2
192 17.5 14.9 22.3



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

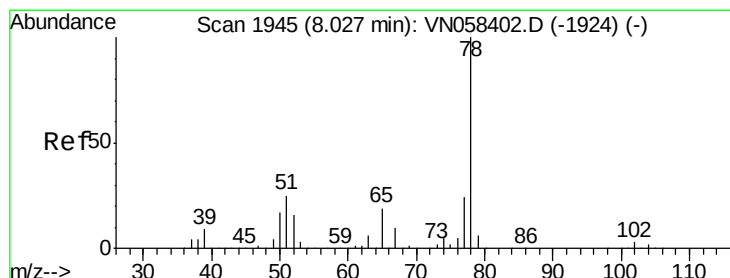
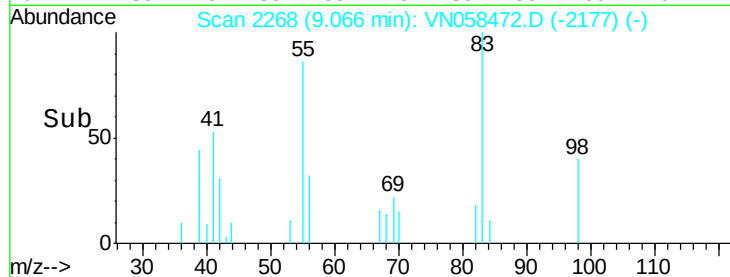
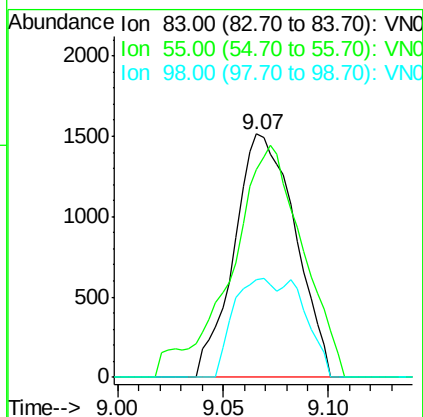
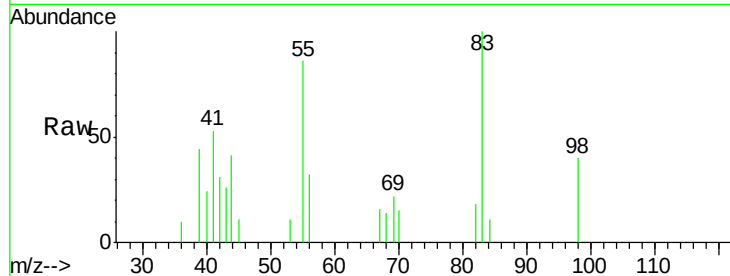




#39
Methylvlcyclohexane
Concen: 0.415 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.01 min
Lab File: VN058472.D
Acq: 1 Oct 2019 19:15

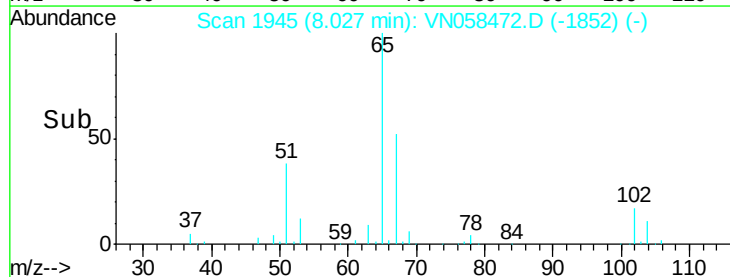
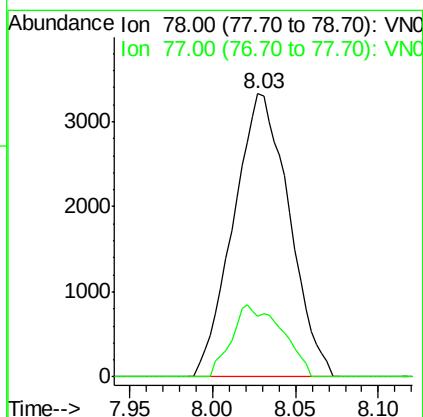
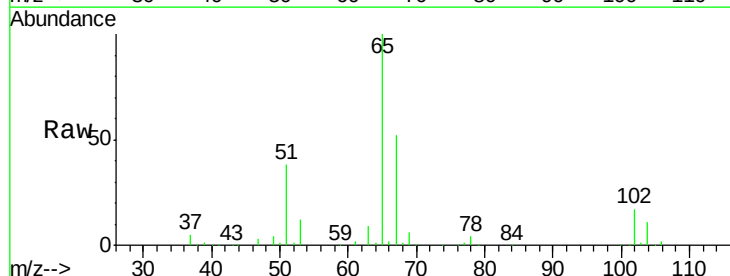
Instrument :
MSVOA_N
ClientSampleId :
MW-2

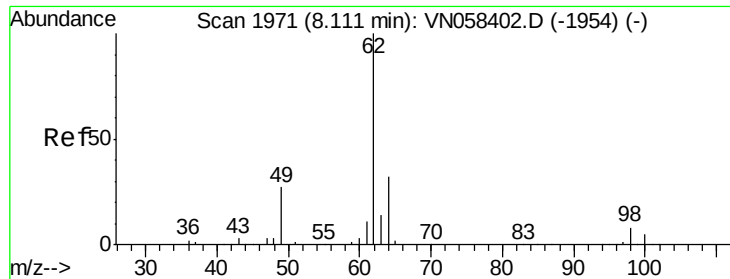
Tot Ion: 83 Resp: 3048
Ion Ratio Lower Upper
83 100
55 75.6 61.8 92.6
98 39.9 35.4 53.0



#40
Benzene
Concen: 0.431 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN058472.D
Acq: 1 Oct 2019 19:15

Tgt Ion: 78 Resp: 7785
Ion Ratio Lower Upper
78 100
77 21.5 18.9 28.3

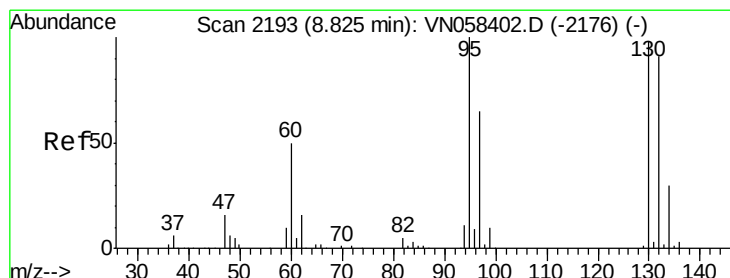
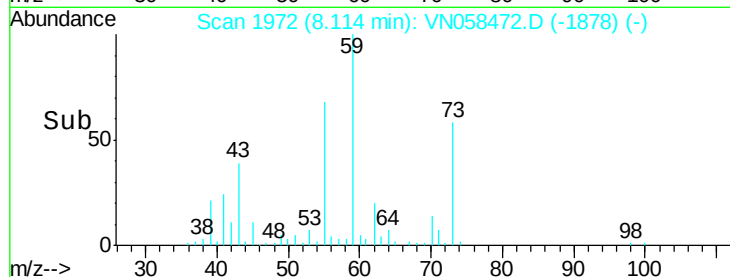
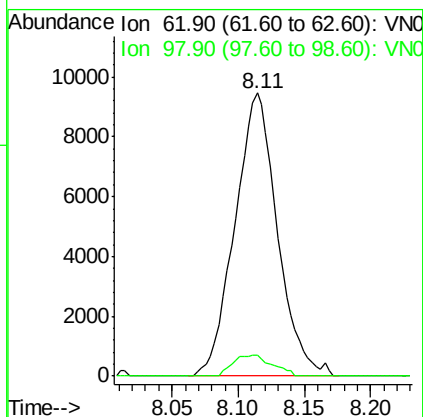
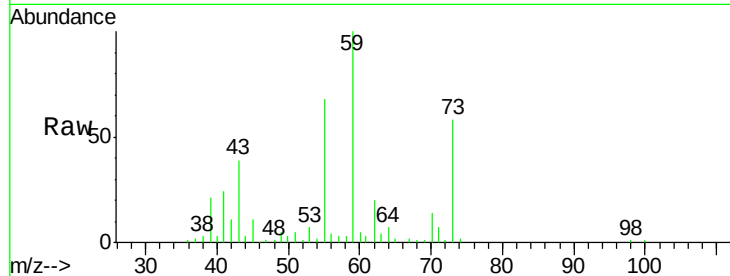




#42
 1,2-Dichloroethane
 Concen: 3.002 ug/l
 RT: 8.11 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VN058472.D
 Acq: 1 Oct 2019 19:15

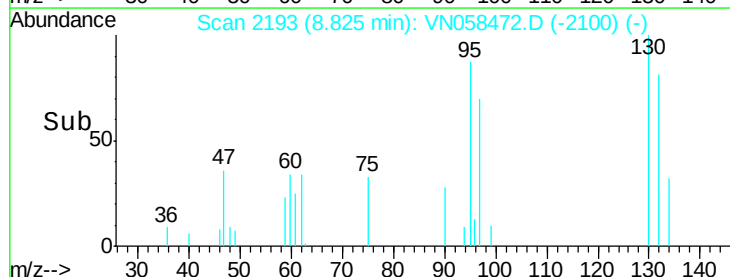
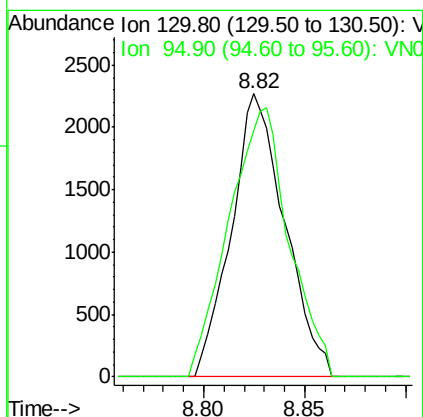
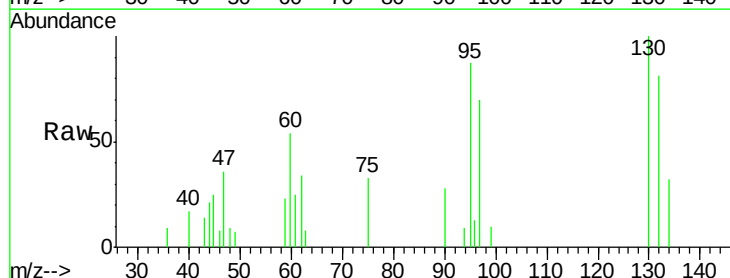
Instrument :
 MSVOA_N
 ClientSampled :
 MW-2

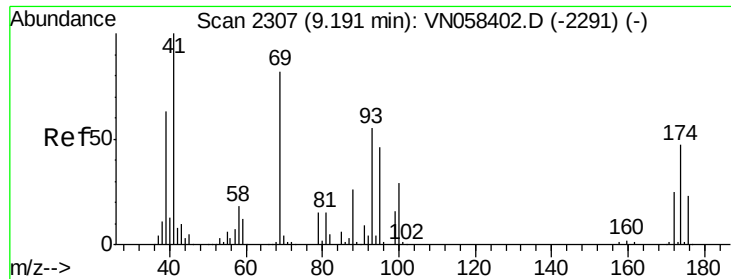
Tot Ion: 62 Resp: 21094
 Ion Ratio Lower Upper
 62 100
 98 7.0 0.0 15.6



#44
 Trichloroethene
 Concen: 0.942 ug/l
 RT: 8.82 min Scan# 2193
 Delta R.T. 0.00 min
 Lab File: VN058472.D
 Acq: 1 Oct 2019 19:15

Tgt Ion:130 Resp: 4200
 Ion Ratio Lower Upper
 130 100
 95 87.2 0.0 204.2

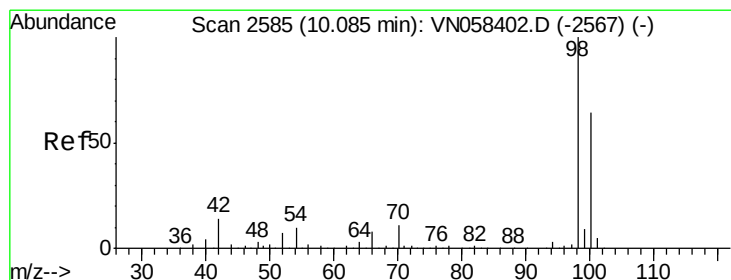
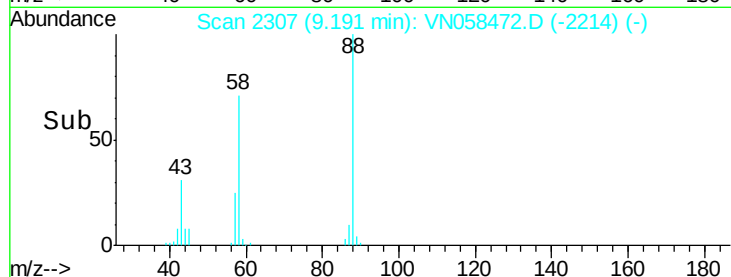
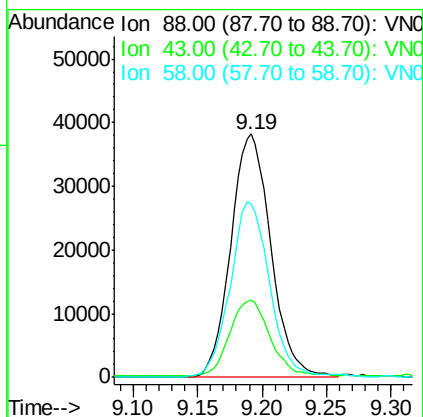
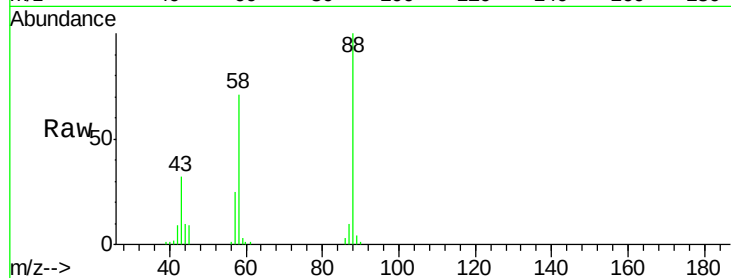




#49
1,4-Dioxane
Concen: 1353.547 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VN058472.D
Acq: 1 Oct 2019 19:15

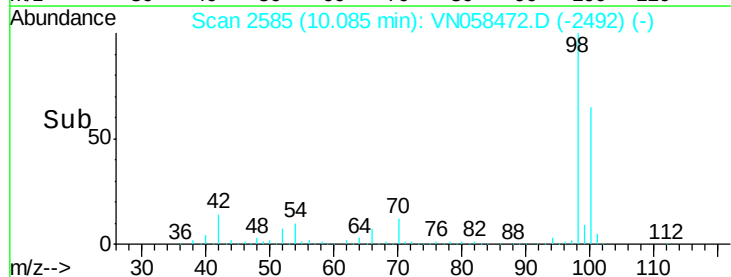
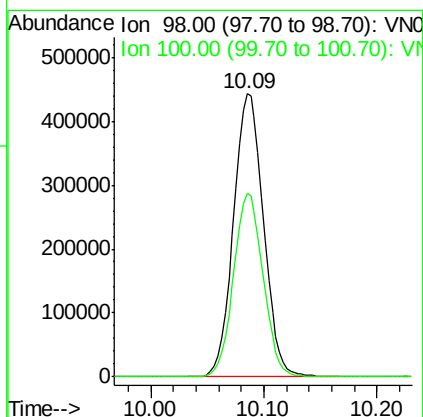
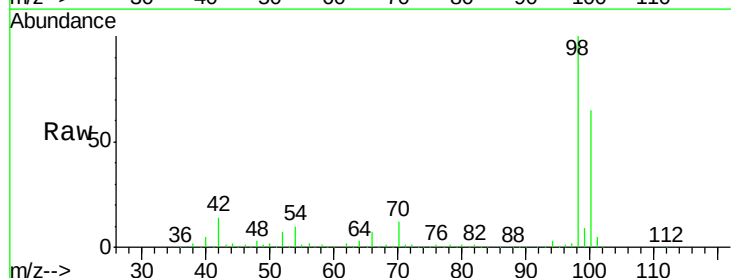
Instrument :
MSVOA_N
ClientSampleId :
MW-2

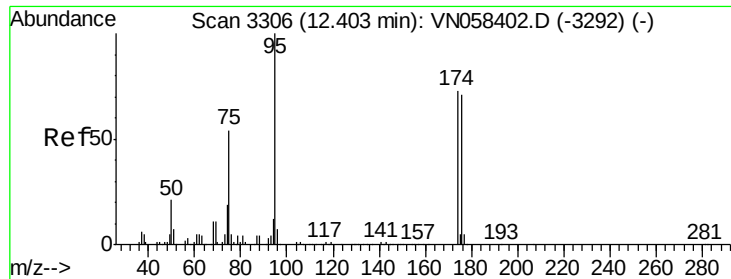
Tot Ion: 88 Resp: 82568
Ion Ratio Lower Upper
88 100
43 31.0 31.1 46.7#
58 71.4 58.1 87.1



#50
Toluene-d8
Concen: 51.896 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058472.D
Acq: 1 Oct 2019 19:15

Tgt Ion: 98 Resp: 818870
Ion Ratio Lower Upper
98 100
100 63.8 51.0 76.6

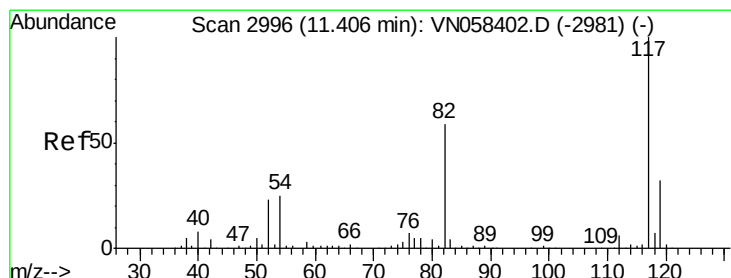
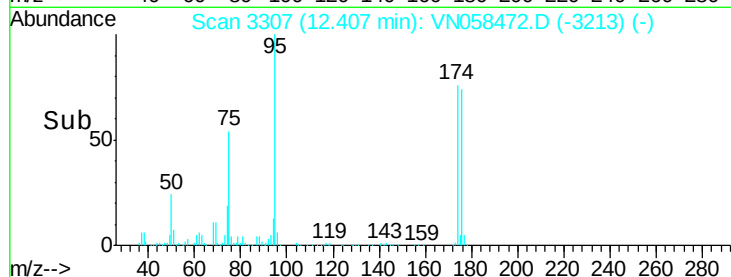
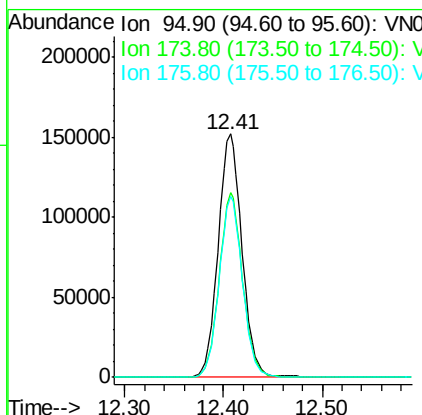
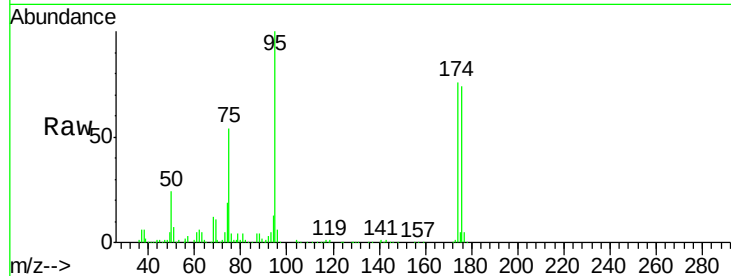




#62
4-Bromofluorobenzene
Concen: 45.149 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058472.D
Acq: 1 Oct 2019 19:15

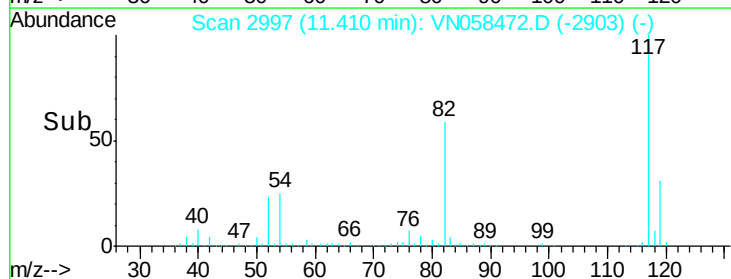
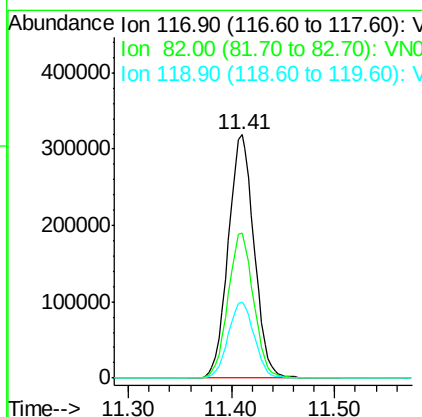
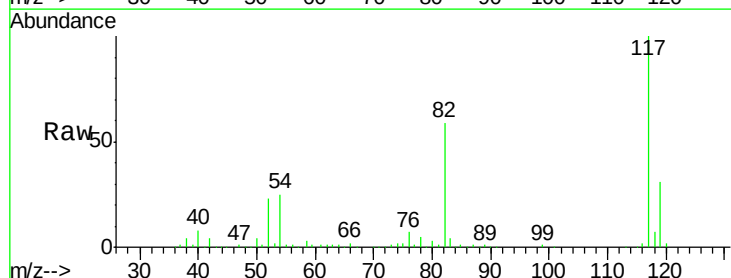
Instrument :
MSVOA_N
ClientSampleId :
MW-2

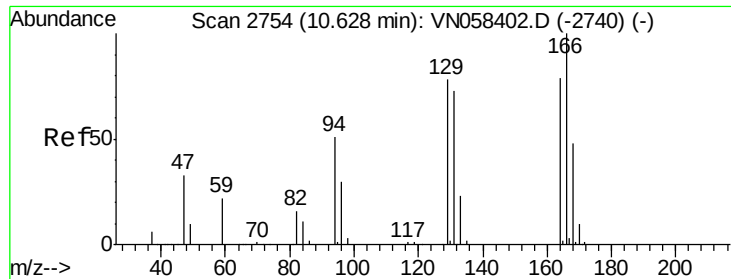
Tot Ion: 95 Resp: 257594
Ion Ratio Lower Upper
95 100
174 74.3 0.0 150.6
176 72.5 0.0 146.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058472.D
Acq: 1 Oct 2019 19:15

Tgt Ion: 117 Resp: 556907
Ion Ratio Lower Upper
117 100
82 59.3 47.4 71.0
119 31.4 25.5 38.3





#64

Tetrachloroethene

Concen: 4.204 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN058472.D

Acq: 1 Oct 2019 19:15

Instrument :

MSVOA_N

ClientSampleId :

MW-2

Tot Ion:164 Resp: 14874

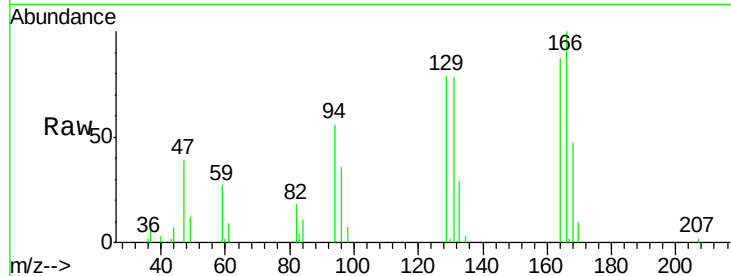
Ion Ratio Lower Upper

164 100

166 115.2 101.1 151.7

129 90.6 79.2 118.8

131 90.1 74.1 111.1

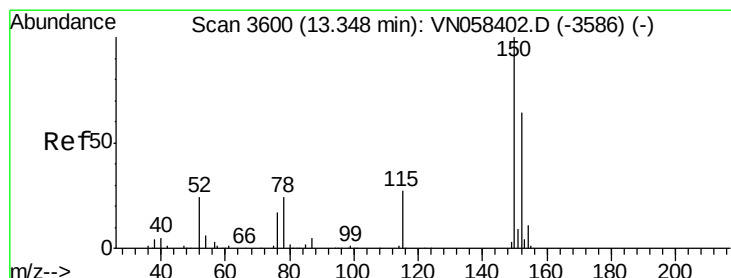
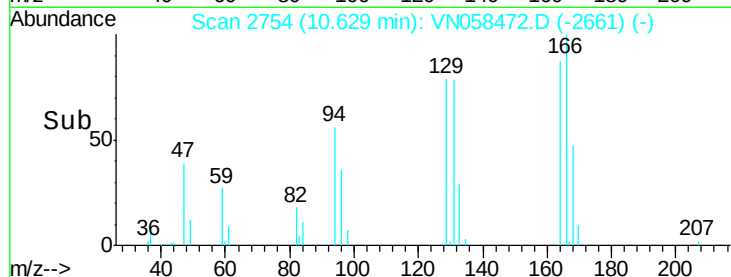
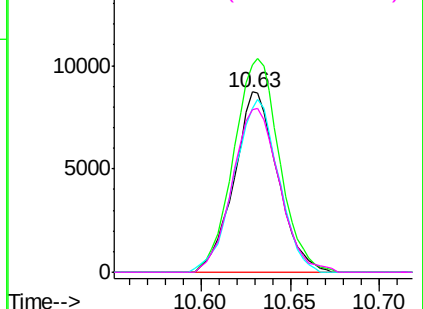


Abundance Ion 163.80 (163.50 to 164.50): V

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058472.D

Acq: 1 Oct 2019 19:15

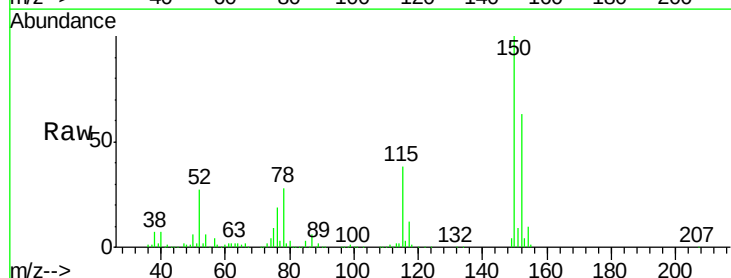
Tgt Ion:152 Resp: 208731

Ion Ratio Lower Upper

152 100

115 62.2 30.0 90.0

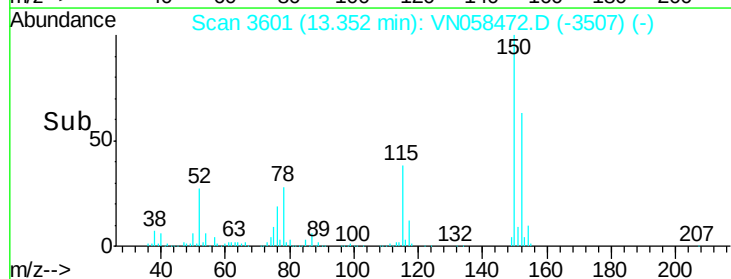
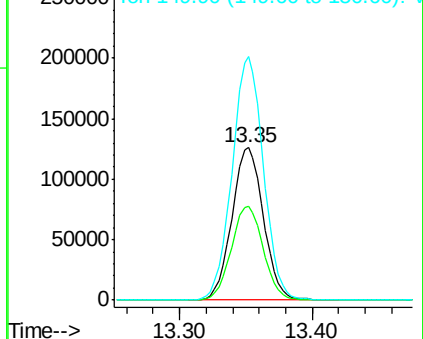
150 158.5 0.0 348.2

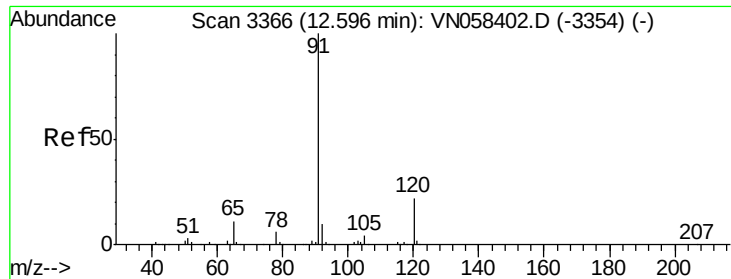


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

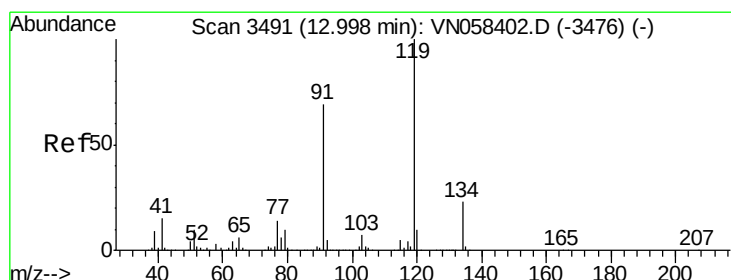
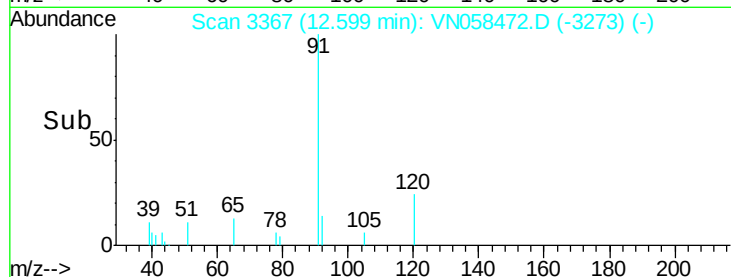
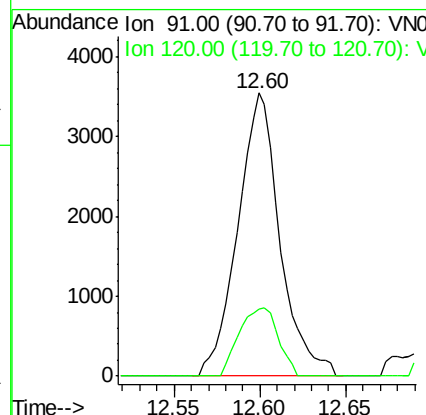
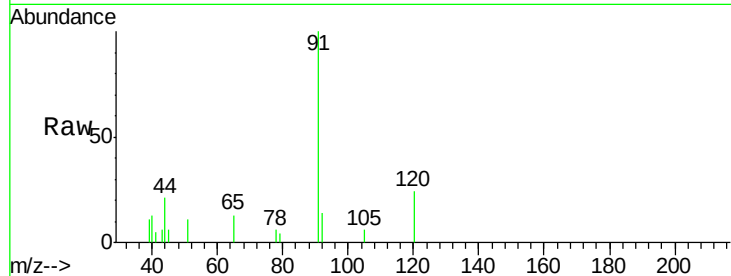




#78
n-propylbenzene
Concen: 0.347 ug/l
RT: 12.60 min Scan# 3367
Delta R.T. 0.00 min
Lab File: VN058472.D
Acq: 1 Oct 2019 19:15

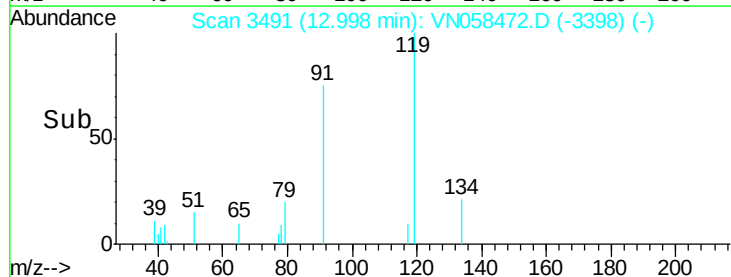
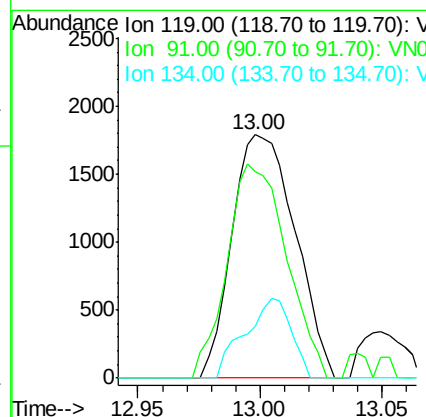
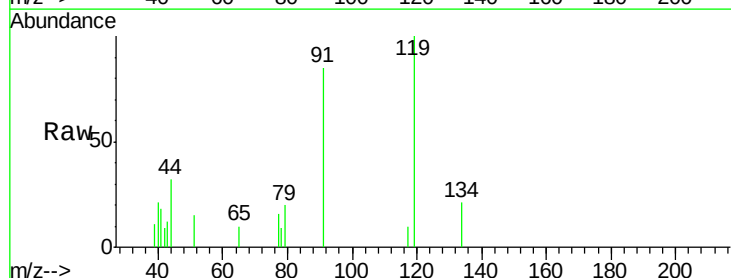
Instrument :
MSVOA_N
ClientSampled :
MW-2

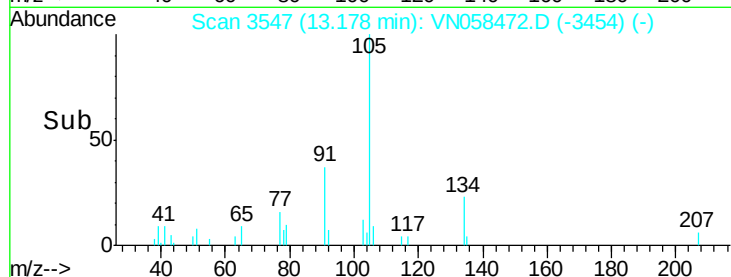
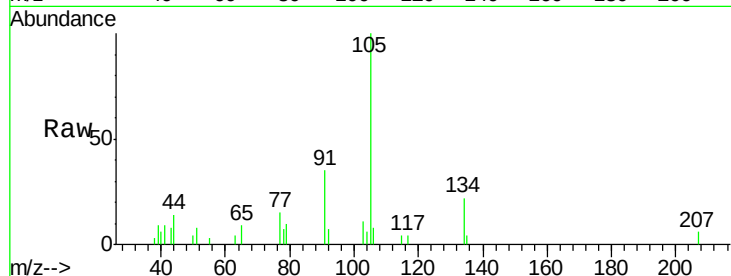
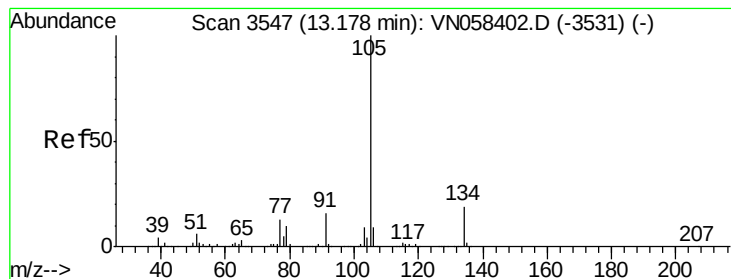
Tot Ion: 91 Resp: 6032
Ion Ratio Lower Upper
91 100
120 22.2 10.9 32.9



#83
tert-Butylbenzene
Concen: 0.295 ug/l
RT: 13.00 min Scan# 3491
Delta R.T. 0.00 min
Lab File: VN058472.D
Acq: 1 Oct 2019 19:15

Tgt Ion: 119 Resp: 3219
Ion Ratio Lower Upper
119 100
91 82.8 34.2 102.6
134 24.0 11.6 34.8





#85
 sec-Butylbenzene
 Concen: 0.556 ug/l
 RT: 13.18 min Scan# 3547
 Delta R.T. 0.00 min
 Lab File: VN058472.D
 Acq: 1 Oct 2019 19:15

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2

Tot Ion:105 Resp: 7970
 Ion Ratio Lower Upper
 105 100
 134 39.4 9.4 28.2#

