

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071319\
 Data File : VN056692.D
 Acq On : 12 Jul 2019 16:41
 Operator : JC/SP
 Sample : K3779-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 390711759.3-VOA

Quant Time: Jul 16 10:07:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:58:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	49446	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	271649	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	229228	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.03	65	104689	31.26	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.20%
60) 4-Bromofluorobenzene	12.40	95	93374	26.62	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	88.73%
63) Toluene-d8	10.09	98	320563	30.61	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.03%

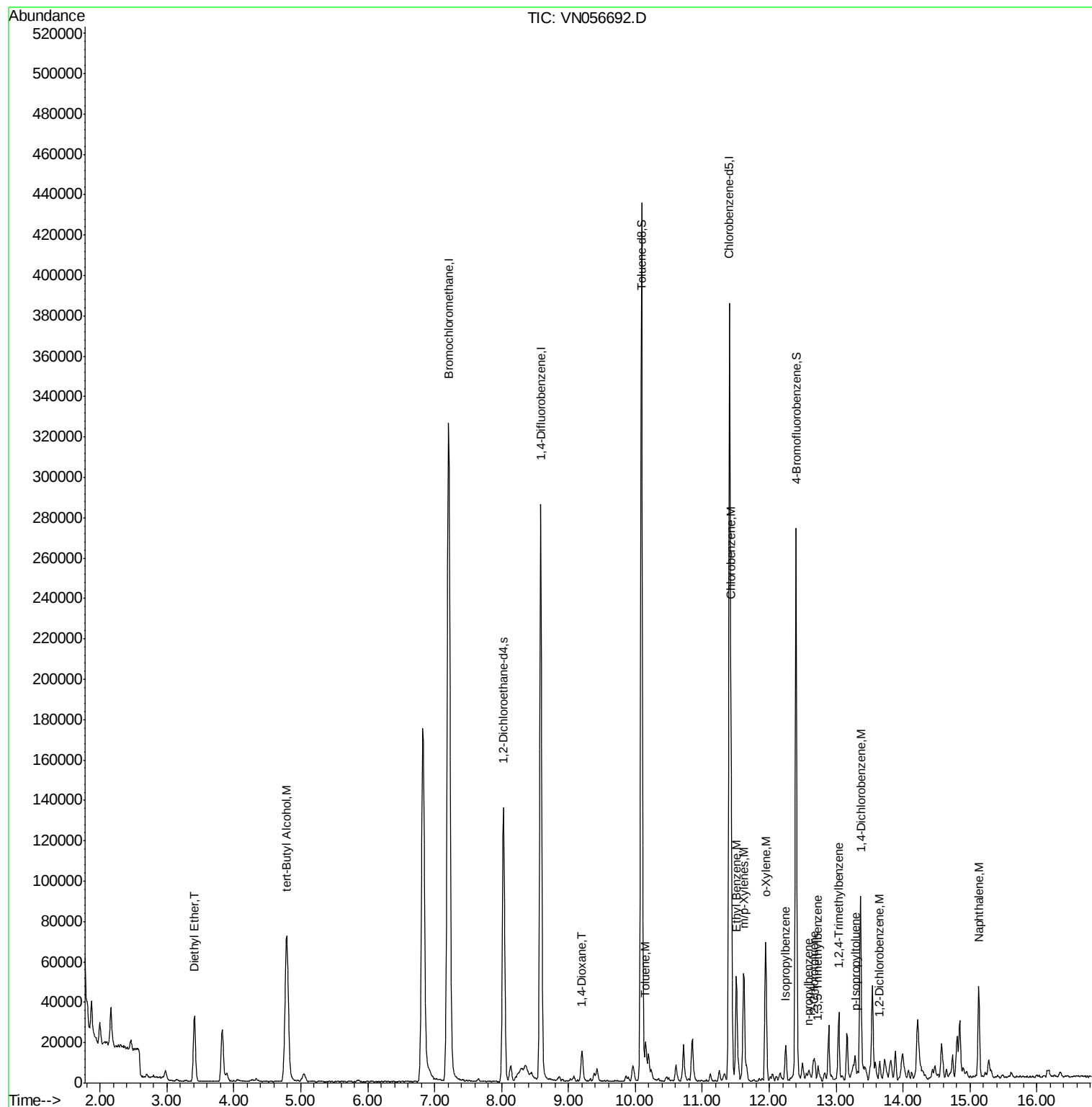
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Diethyl Ether	3.41	74	17463	9.008	ug/l	100
23) tert-Butyl Alcohol	4.79	59	131837	219.774	ug/l #	100
45) 1,4-Dioxane	9.20	88	12084	169.512	ug/l	95
62) Toluene	10.15	91	12094	0.898	ug/l	94
64) Chlorobenzene	11.43	112	69947	8.518	ug/l	100
66) Ethyl Benzene	11.51	91	36023	2.475	ug/l	99
67) m/p-Xylenes	11.62	106	19076	3.473	ug/l	100
68) o-Xylene	11.94	106	19732	3.683	ug/l	98
70) Isopropylbenzene	12.25	105	11685	0.832	ug/l	99
74) n-propylbenzene	12.59	91	4032	0.255	ug/l	96
75) 2-Chlorotoluene	12.67	91	5709	0.598	ug/l	88
76) 1,3,5-Trimethylbenzene	12.73	105	4267	0.356	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	18562	1.563	ug/l	100
82) p-Isopropyltoluene	13.29	119	4881	0.398	ug/l	95
84) 1,4-Dichlorobenzene	13.36	146	35059	5.980	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	2974	0.484	ug/l	97
91) Naphthalene	15.13	128	41771	4.698	ug/l	99

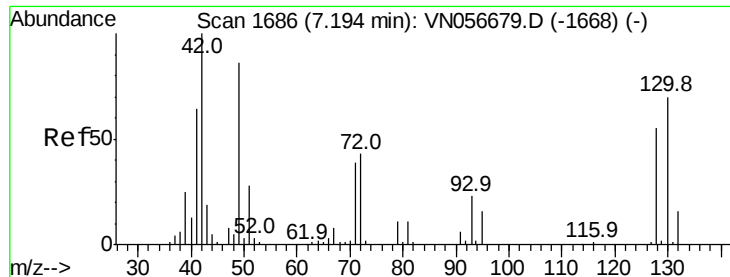
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071319\
Data File : VN056692.D
Acq On : 12 Jul 2019 16:41
Operator : JC/SP
Sample : K3779-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
390711759.3-VOA

Quant Time: Jul 16 10:07:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 12 23:58:13 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN056692.D

Acq: 12 Jul 2019 16:41

Instrument :

MSVOA_N

ClientSampleId :

390711759.3-VOA

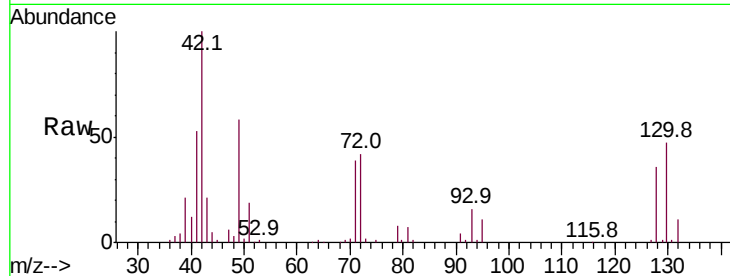
Tot Ion:128 Resp: 49446

Ion Ratio Lower Upper

128 100

49 160.6 0.0 390.5

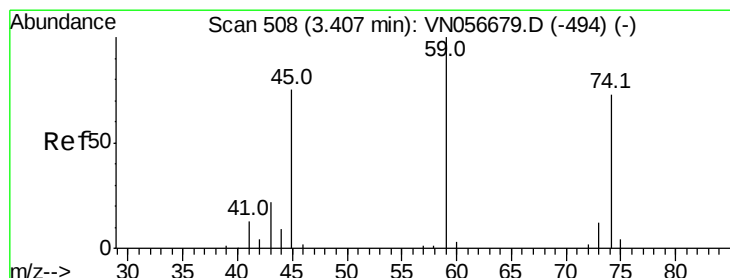
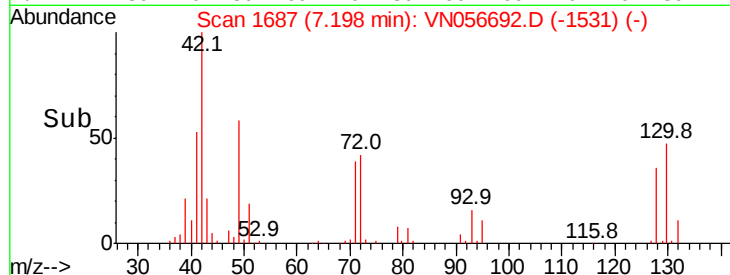
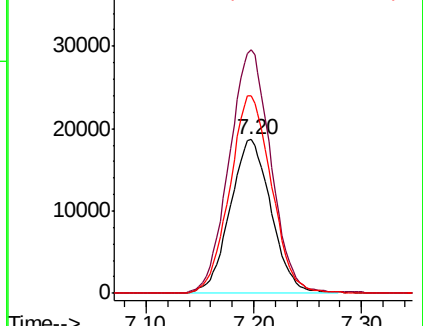
130 130.6 0.0 316.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VNO

Ion 130.00 (129.70 to 130.70): V



#8

Diethyl Ether

Concen: 9.008 ug/l

RT: 3.41 min Scan# 509

Delta R.T. 0.00 min

Lab File: VN056692.D

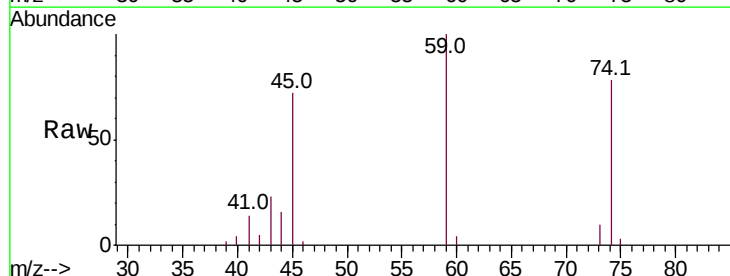
Acq: 12 Jul 2019 16:41

Tgt Ion: 74 Resp: 17463

Ion Ratio Lower Upper

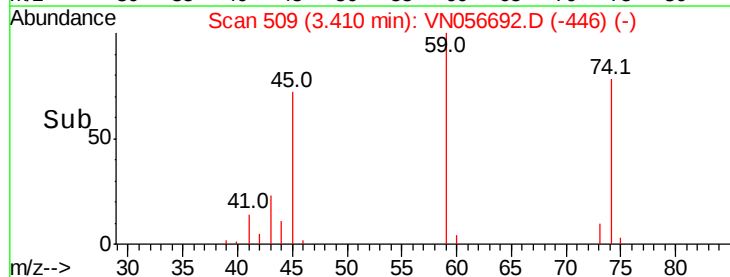
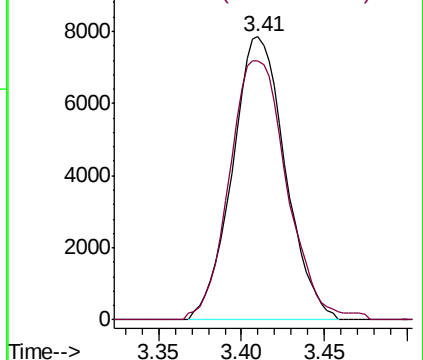
74 100

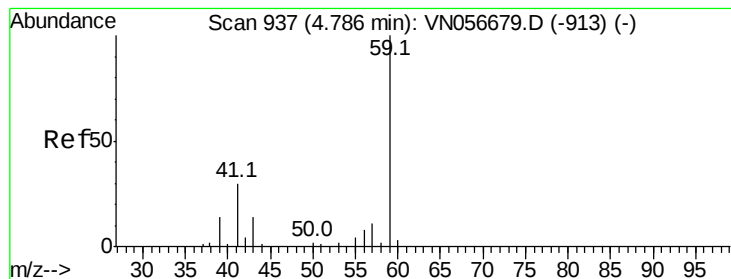
45 99.7 19.9 179.5



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO



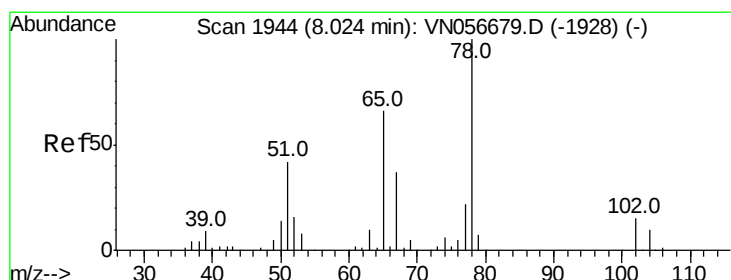
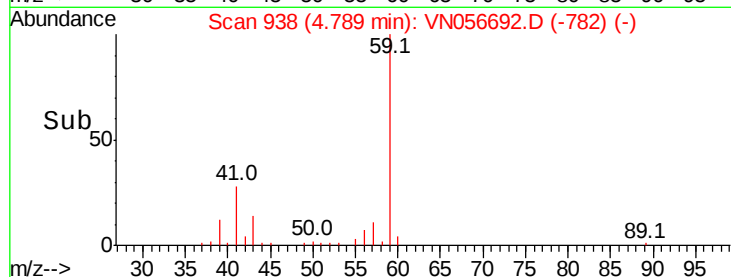
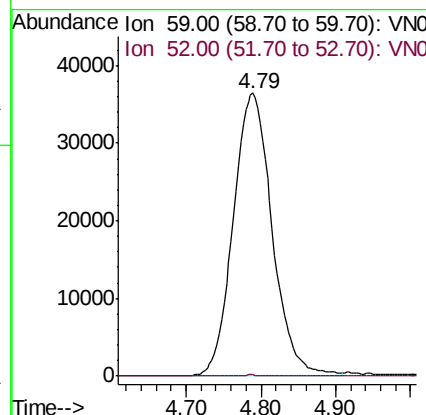
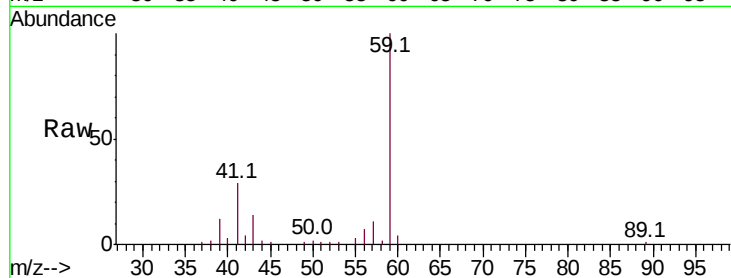


#23

tert-Butyl Alcohol
 Concen: 219.774 ug/l
 RT: 4.79 min Scan# 938
 Delta R.T. 0.00 min
 Lab File: VN056692.D
 Acq: 12 Jul 2019 16:41

Instrument :
 MSVOA_N
 ClientSampleId :
 390711759.3-VOA

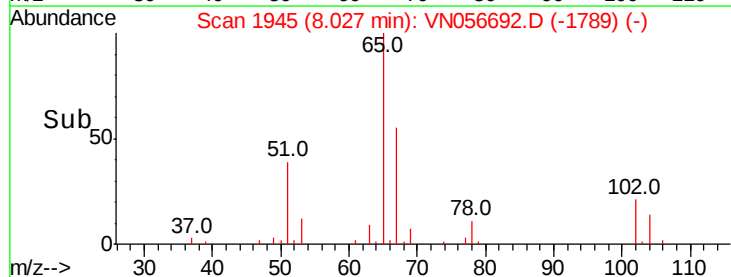
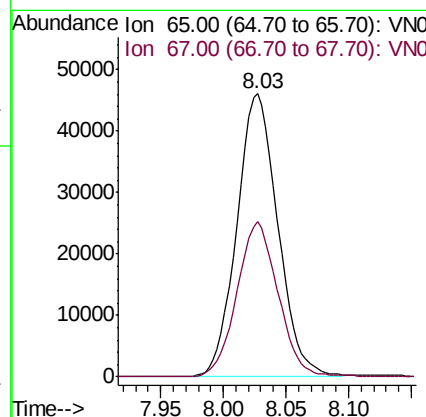
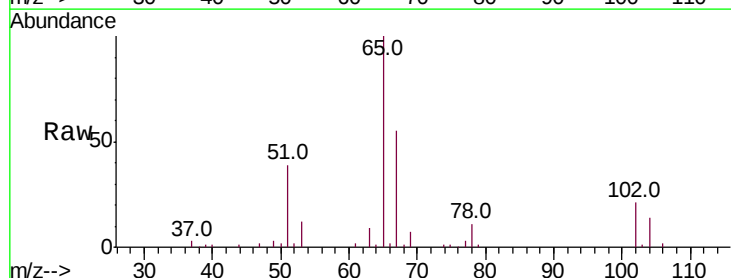
Tot Ion: 59 Resp: 131837
 Ion Ratio Lower Upper
 59 100
 52 0.1 0.1 0.1#

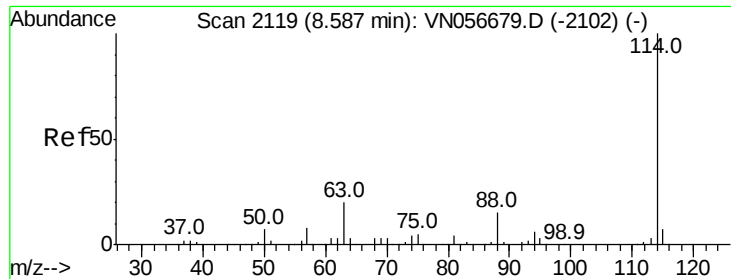


#27

1,2-Dichloroethane-d4
 Concen: 31.256 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056692.D
 Acq: 12 Jul 2019 16:41

Tgt Ion: 65 Resp: 104689
 Ion Ratio Lower Upper
 65 100
 67 54.7 43.4 65.0

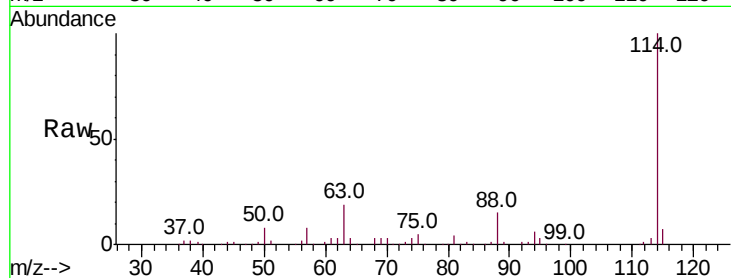




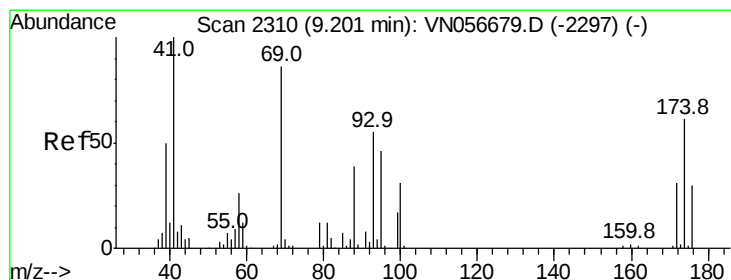
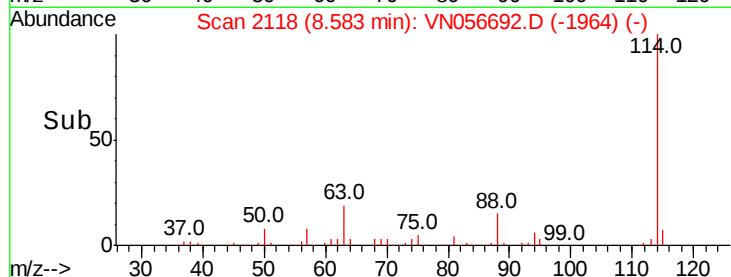
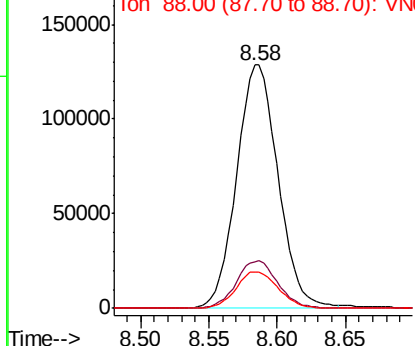
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN056692.D
 Acq: 12 Jul 2019 16:41

Instrument :
 MSVOA_N
 ClientSampleId :
 390711759.3-VOA

Tot Ion:114 Resp: 271649
 Ion Ratio Lower Upper
 114 100
 63 19.6 16.2 24.2
 88 15.3 12.3 18.5

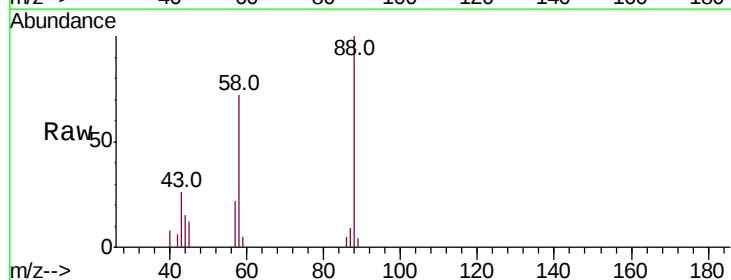


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VNO
 Ion 88.00 (87.70 to 88.70): VNO

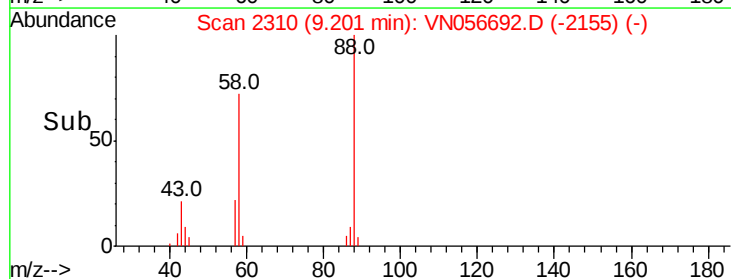
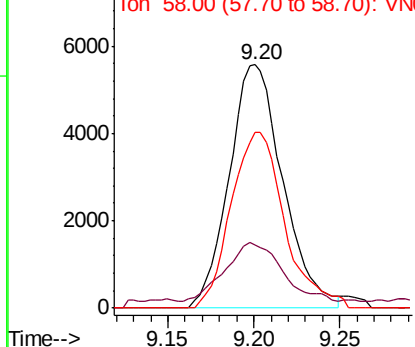


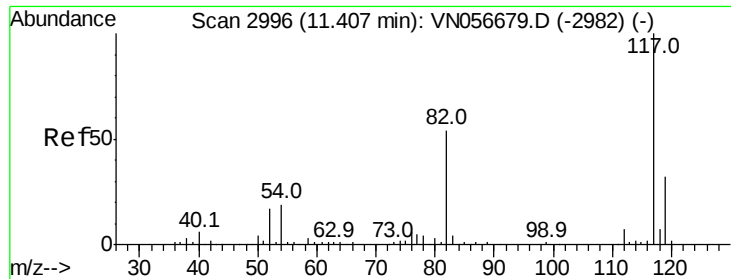
#45
 1,4-Dioxane
 Concen: 169.512 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. -0.00 min
 Lab File: VN056692.D
 Acq: 12 Jul 2019 16:41

Tgt Ion: 88 Resp: 12084
 Ion Ratio Lower Upper
 88 100
 43 30.9 23.0 34.6
 58 72.0 54.6 81.8



Abundance Ion 88.00 (87.70 to 88.70): VNO
 Ion 43.00 (42.70 to 43.70): VNO
 Ion 58.00 (57.70 to 58.70): VNO

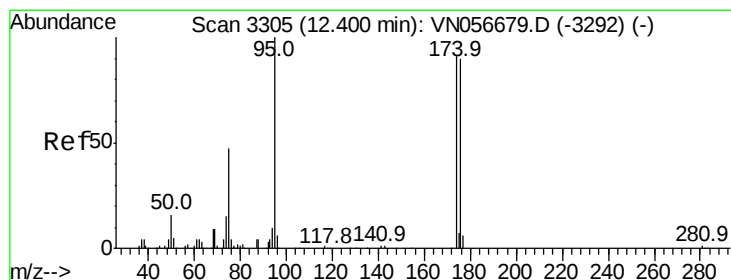
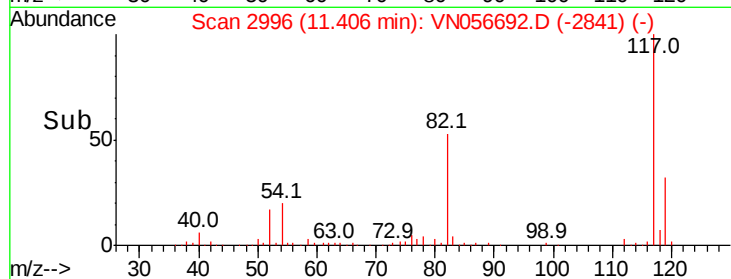
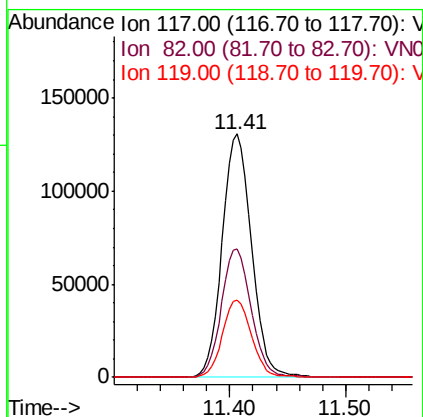
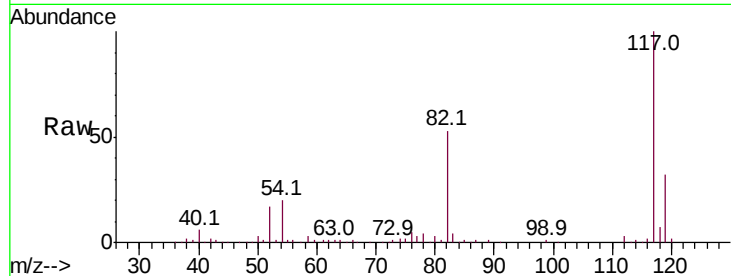




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056692.D
Acq: 12 Jul 2019 16:41

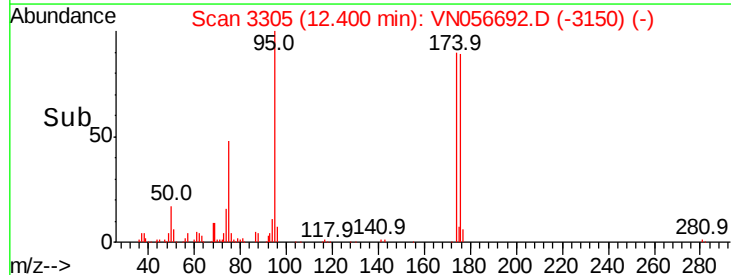
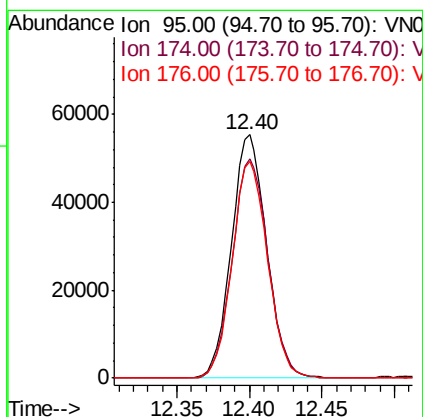
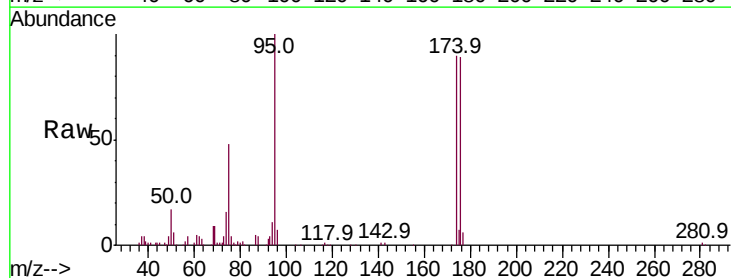
Instrument :
MSVOA_N
ClientSampleId :
390711759.3-VOA

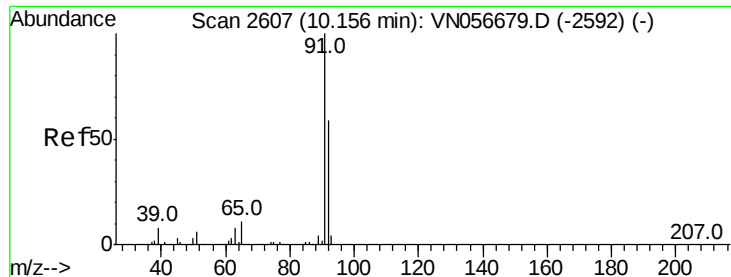
Tot Ion:117 Resp: 229228
Ion Ratio Lower Upper
117 100
82 53.4 43.0 64.4
119 31.6 26.0 39.0



#60
4-Bromofluorobenzene
Concen: 26.616 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056692.D
Acq: 12 Jul 2019 16:41

Tgt Ion: 95 Resp: 93374
Ion Ratio Lower Upper
95 100
174 91.4 72.6 108.8
176 89.2 71.0 106.6





#62

Toluene

Concen: 0.898 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN056692.D

Acq: 12 Jul 2019 16:41

Instrument :

MSVOA_N

ClientSampleId :

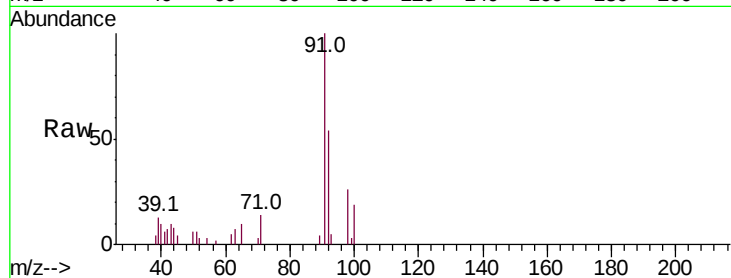
390711759.3-VOA

Tot Ion: 91 Resp: 12094

Ion Ratio Lower Upper

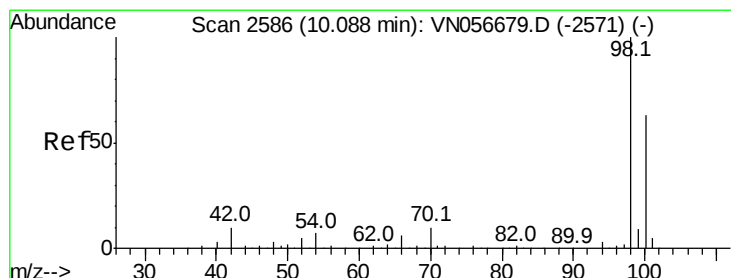
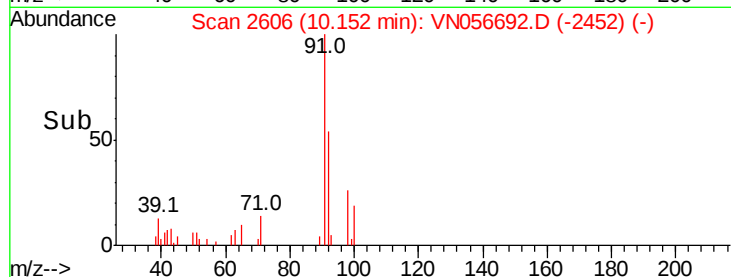
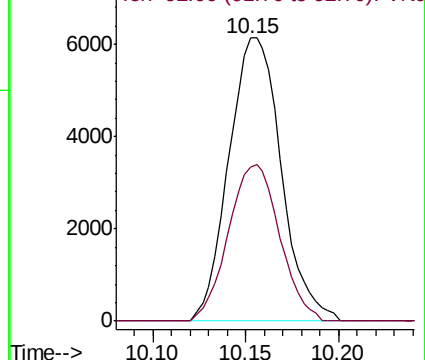
91 100

92 53.9 46.7 70.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0



#63

Toluene-d8

Concen: 30.606 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056692.D

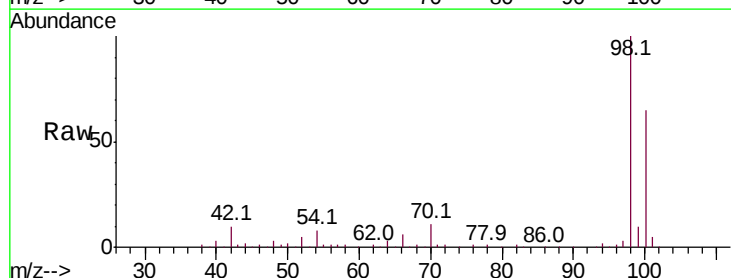
Acq: 12 Jul 2019 16:41

Tgt Ion: 98 Resp: 320563

Ion Ratio Lower Upper

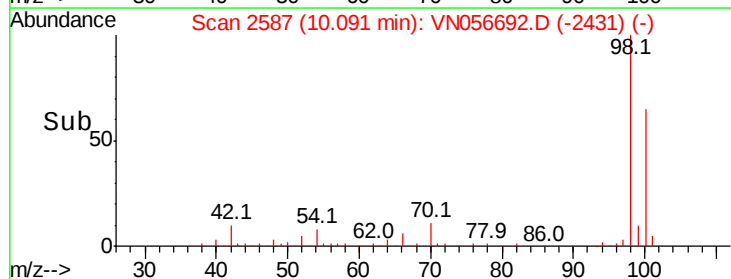
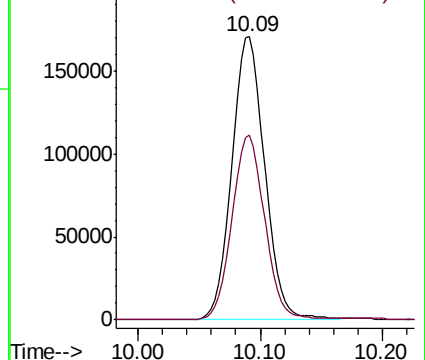
98 100

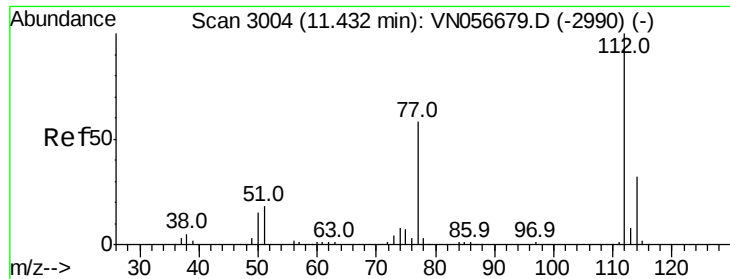
100 64.7 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

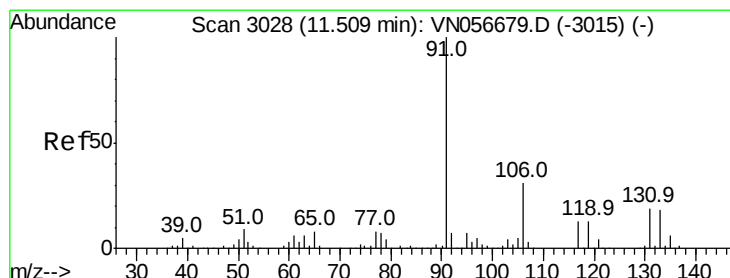
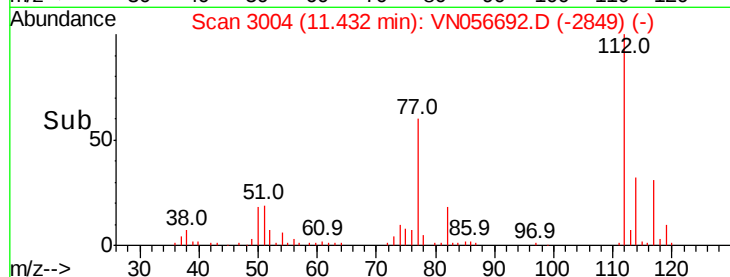
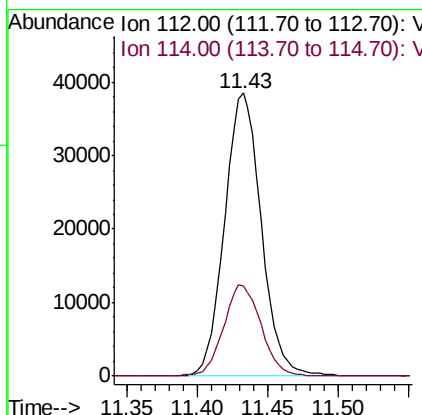
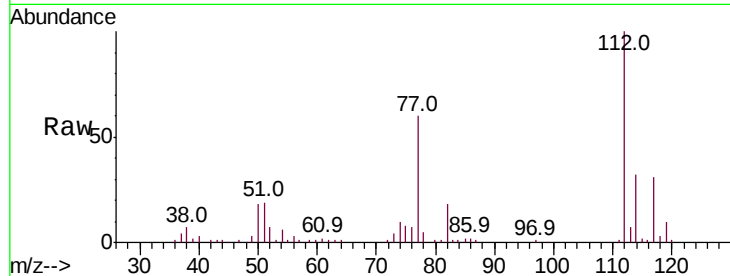




#64
Chlorobenzene
Concen: 8.518 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN056692.D
Acq: 12 Jul 2019 16:41

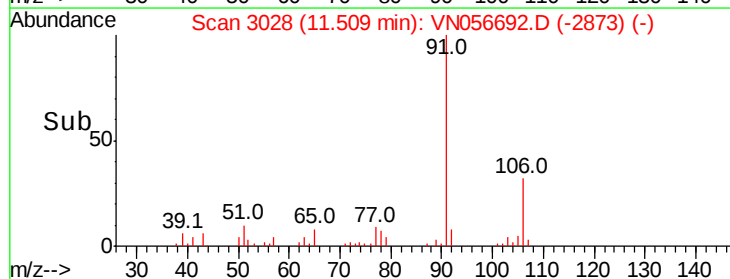
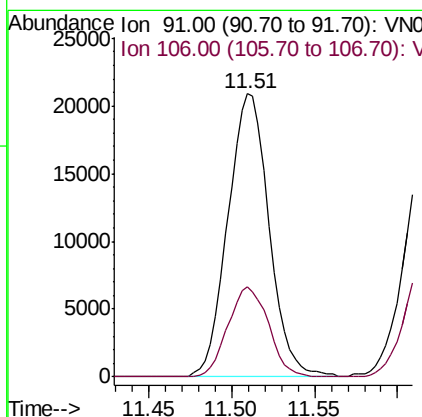
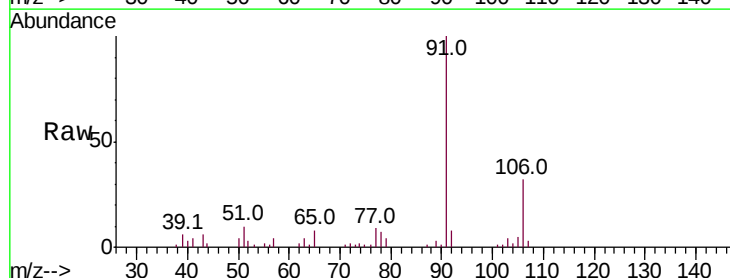
Instrument :
MSVOA_N
ClientSampleId :
390711759.3-VOA

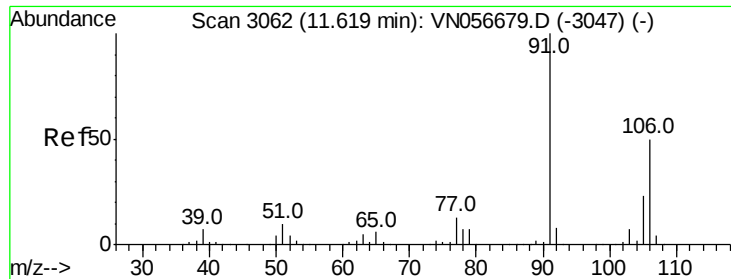
Tot Ion:112 Resp: 69947
Ion Ratio Lower Upper
112 100
114 31.7 25.3 37.9



#66
Ethyl Benzene
Concen: 2.475 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN056692.D
Acq: 12 Jul 2019 16:41

Tgt Ion: 91 Resp: 36023
Ion Ratio Lower Upper
91 100
106 32.0 25.1 37.7

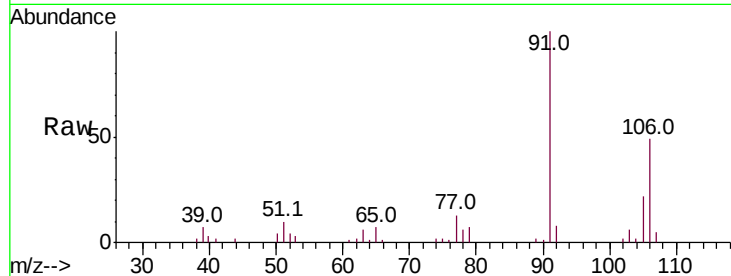




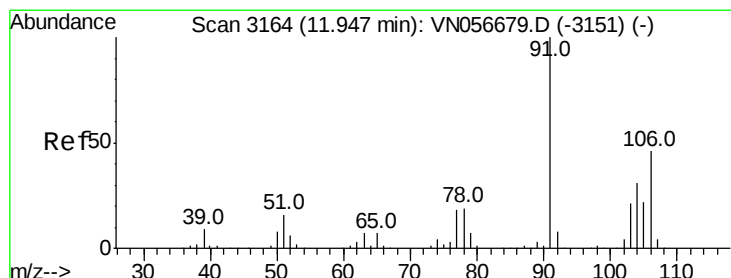
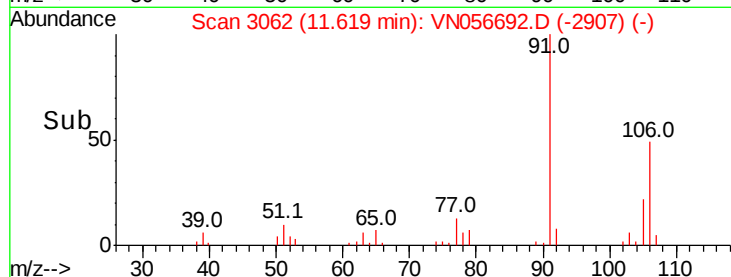
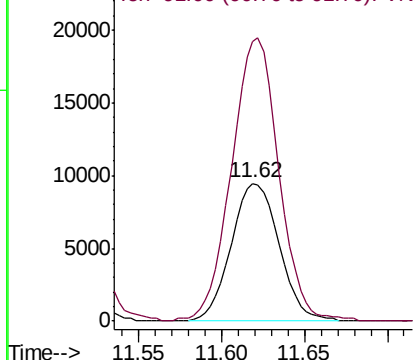
#67
m/p-Xylenes
Concen: 3.473 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN056692.D
Acq: 12 Jul 2019 16:41

Instrument :
MSVOA_N
ClientSampleId :
390711759.3-VOA

Tot Ion:106 Resp: 19076
Ion Ratio Lower Upper
106 100
91 201.6 161.8 242.8

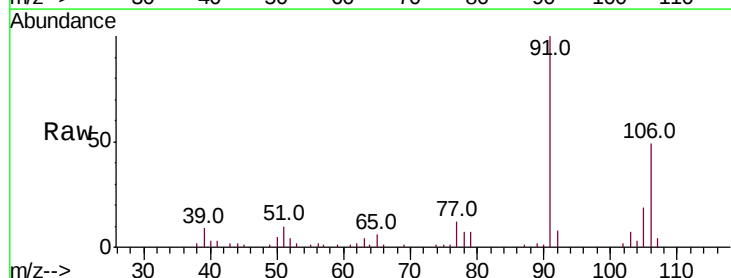


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN0

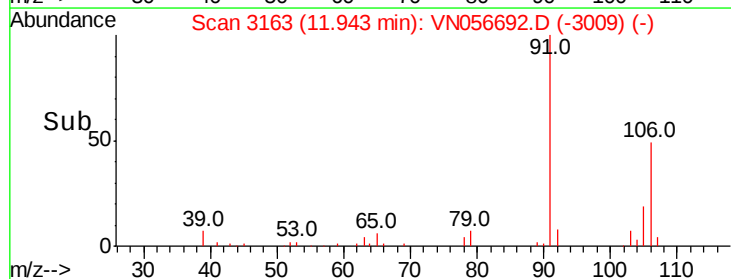
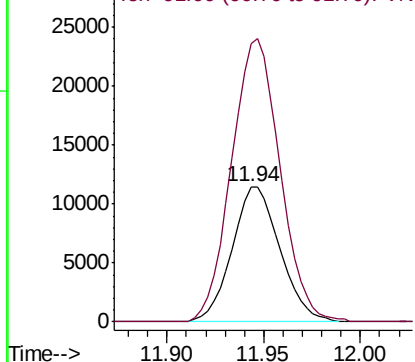


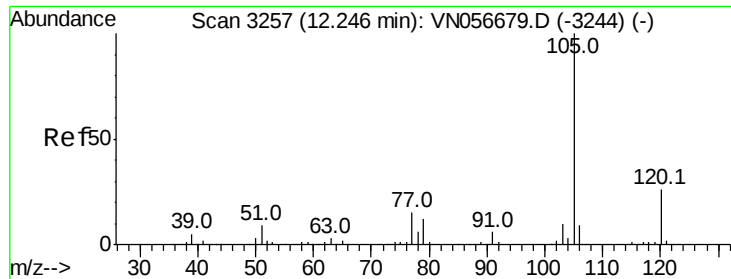
#68
o-Xylene
Concen: 3.683 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. -0.00 min
Lab File: VN056692.D
Acq: 12 Jul 2019 16:41

Tgt Ion:106 Resp: 19732
Ion Ratio Lower Upper
106 100
91 212.5 108.1 324.2



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN0





#70

Isopropylbenzene

Concen: 0.832 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN056692.D

Acq: 12 Jul 2019 16:41

Instrument :

MSVOA_N

ClientSampleId :

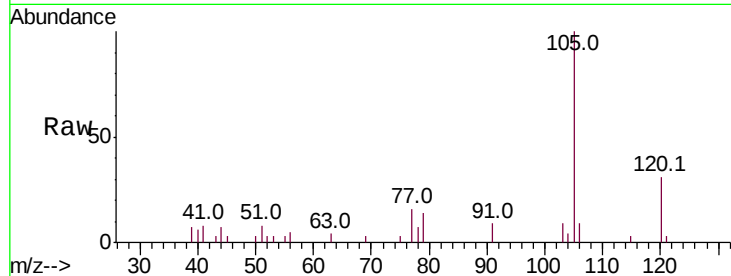
390711759.3-VOA

Tot Ion: 105 Resp: 11685

Ion Ratio Lower Upper

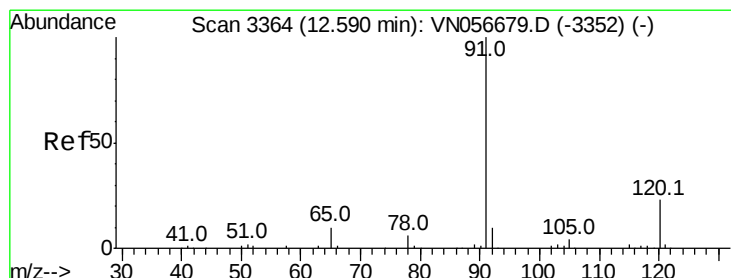
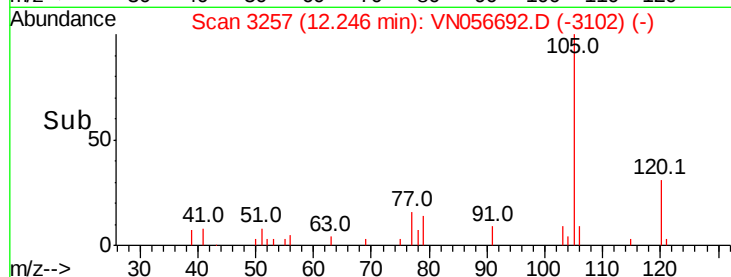
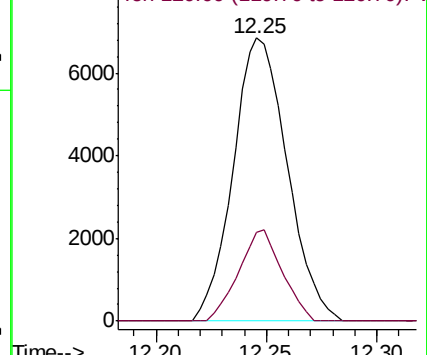
105 100

120 25.8 18.6 34.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

n-propylbenzene

Concen: 0.255 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN056692.D

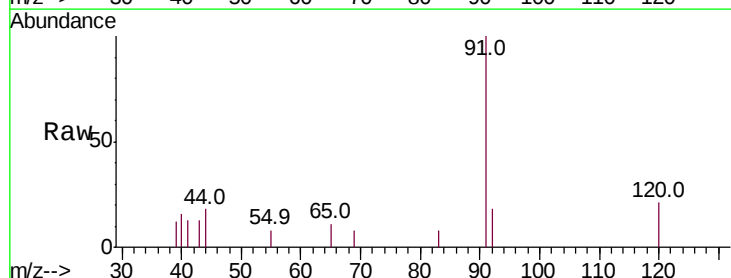
Acq: 12 Jul 2019 16:41

Tgt Ion: 91 Resp: 4032

Ion Ratio Lower Upper

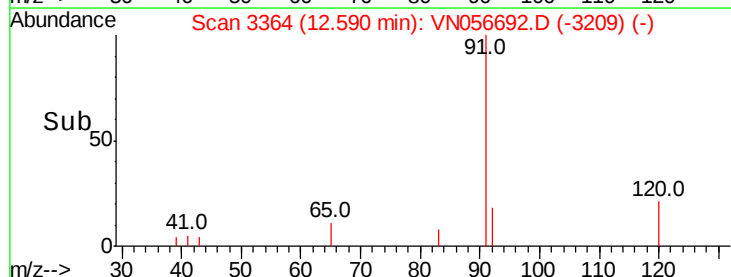
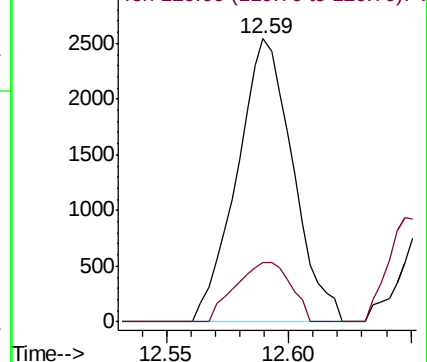
91 100

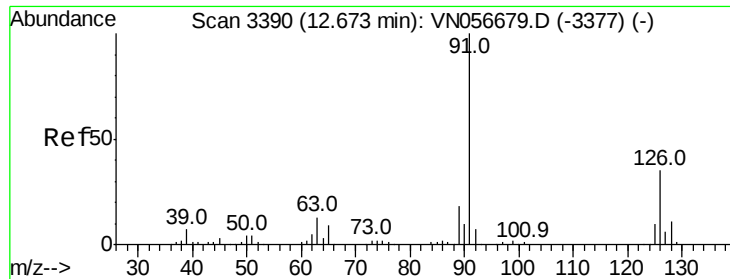
120 20.9 0.0 45.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

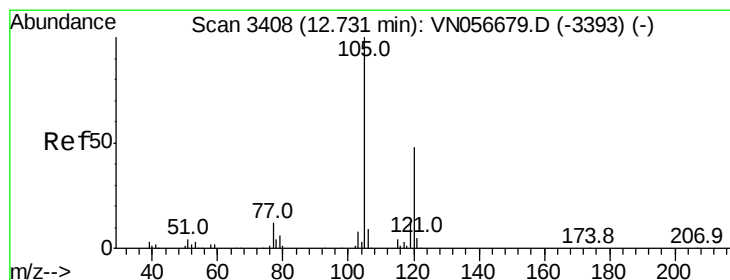
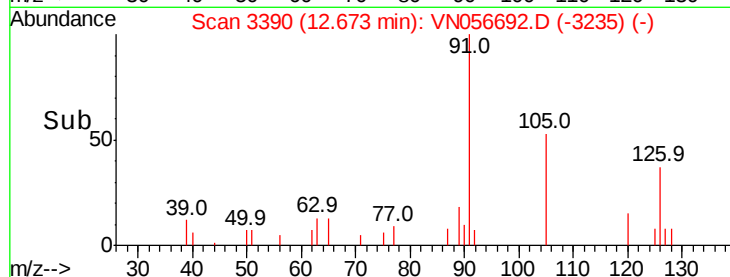
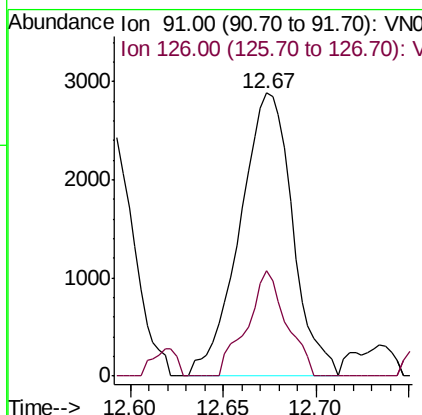
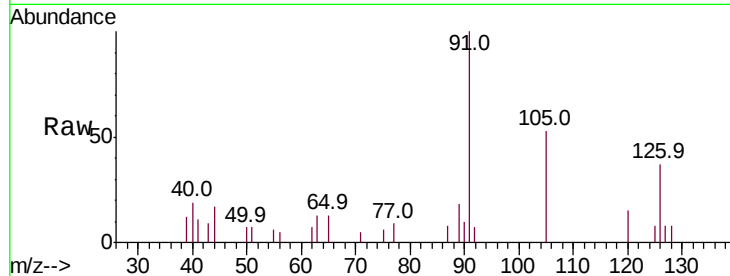




#75
 2-Chlorotoluene
 Concen: 0.598 ug/l
 RT: 12.67 min Scan# 3390
 Delta R.T. -0.00 min
 Lab File: VN056692.D
 Acq: 12 Jul 2019 16:41

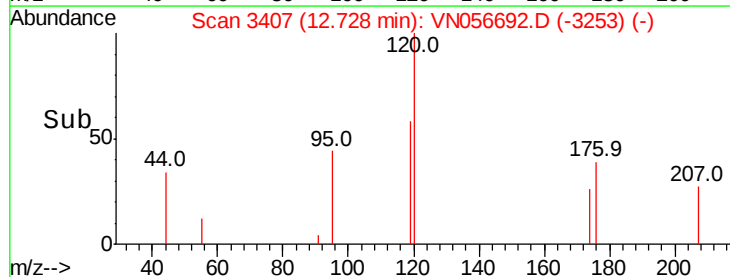
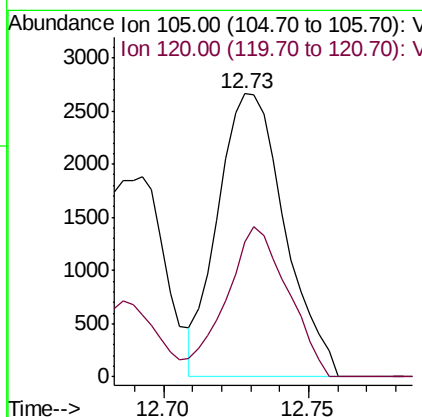
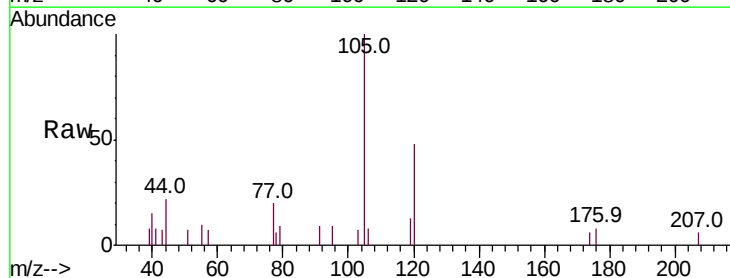
Instrument :
 MSVOA_N
 ClientSampleId :
 390711759.3-VOA

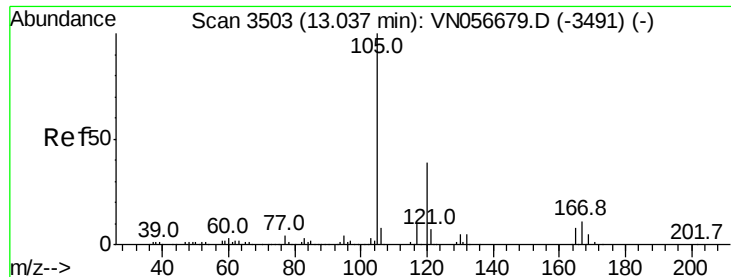
Tot Ion: 91 Resp: 5709
 Ion Ratio Lower Upper
 91 100
 126 27.7 0.0 69.8



#76
 1,3,5-Trimethylbenzene
 Concen: 0.356 ug/l
 RT: 12.73 min Scan# 3407
 Delta R.T. -0.00 min
 Lab File: VN056692.D
 Acq: 12 Jul 2019 16:41

Tgt Ion: 105 Resp: 4267
 Ion Ratio Lower Upper
 105 100
 120 49.4 0.0 97.6





#80

1,2,4-Trimethylbenzene

Concen: 1.563 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN056692.D

Acq: 12 Jul 2019 16:41

Instrument :

MSVOA_N

ClientSampleId :

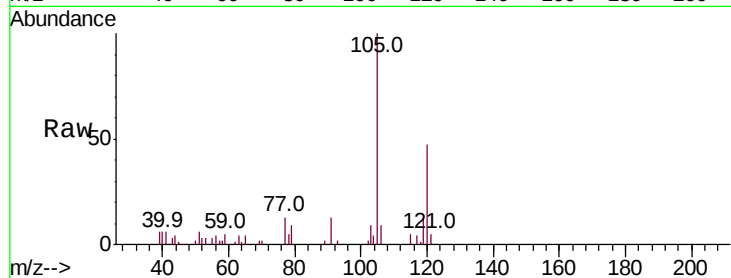
390711759.3-VOA

Tot Ion:105 Resp: 18562

Ion Ratio Lower Upper

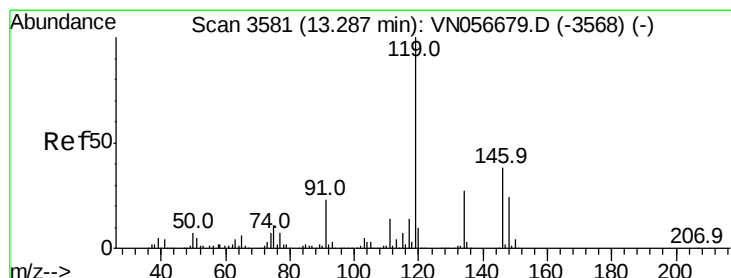
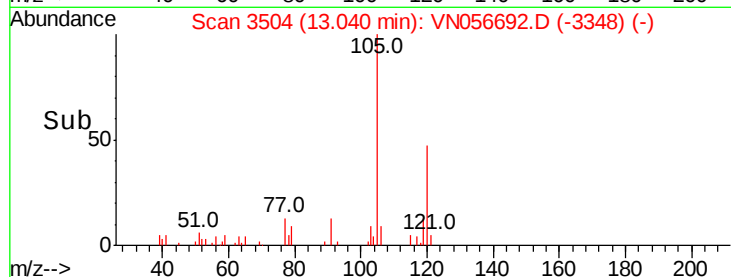
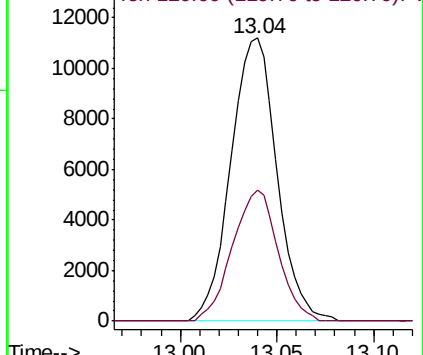
105 100

120 45.7 0.0 91.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#82

p-Isopropyltoluene

Concen: 0.398 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN056692.D

Acq: 12 Jul 2019 16:41

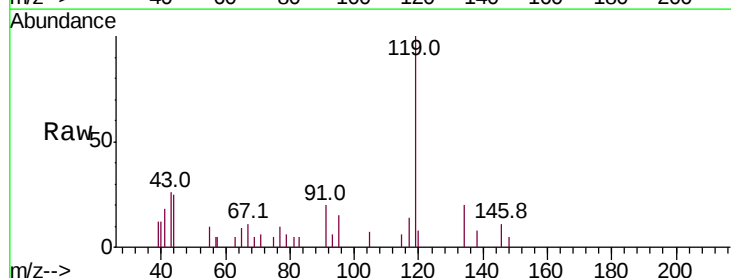
Tgt Ion:119 Resp: 4881

Ion Ratio Lower Upper

119 100

134 24.1 0.0 52.8

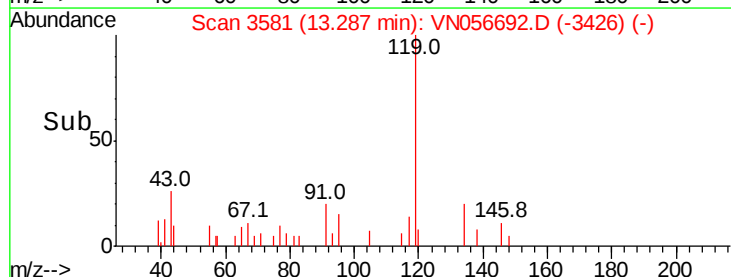
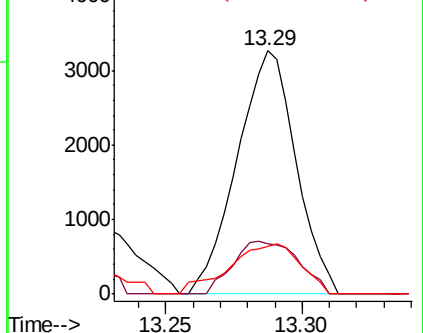
91 25.1 0.0 45.4

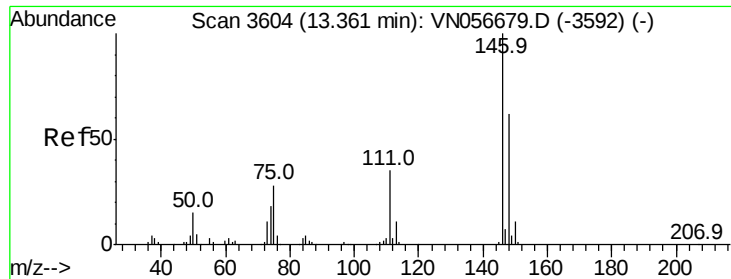


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#84

1,4-Dichlorobenzene

Concen: 5.980 ug/l

RT: 13.36 min Scan# 3604

Delta R.T. -0.00 min

Lab File: VN056692.D

Acq: 12 Jul 2019 16:41

Instrument :

MSVOA_N

ClientSampleId :

390711759.3-VOA

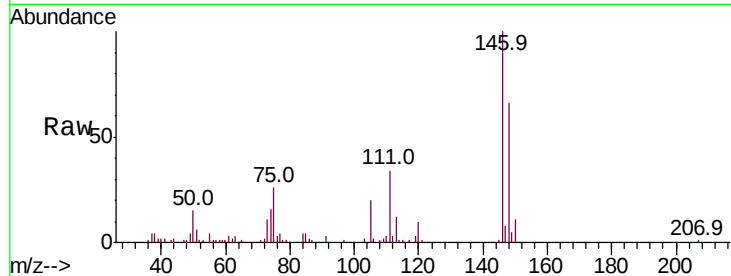
Tot Ion:146 Resp: 35059

Ion Ratio Lower Upper

146 100

111 37.5 17.8 53.4

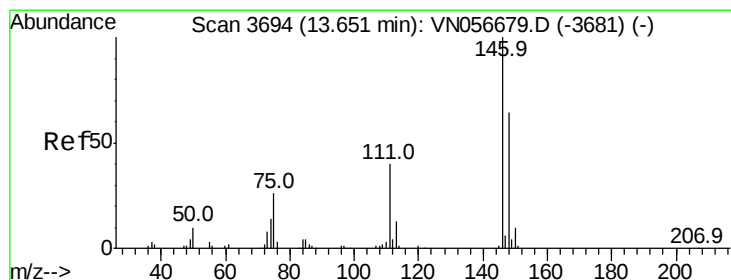
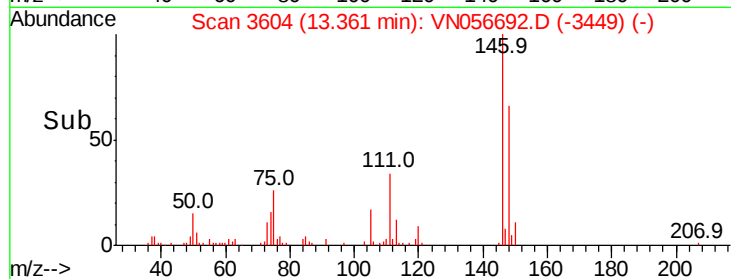
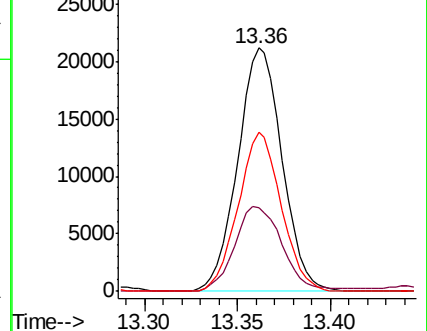
148 63.3 31.9 95.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#87

1,2-Dichlorobenzene

Concen: 0.484 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN056692.D

Acq: 12 Jul 2019 16:41

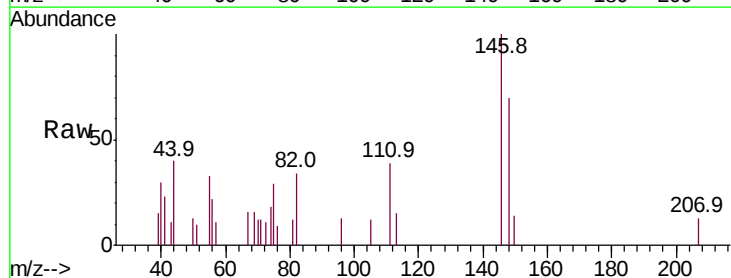
Tgt Ion:146 Resp: 2974

Ion Ratio Lower Upper

146 100

111 40.8 19.7 59.0

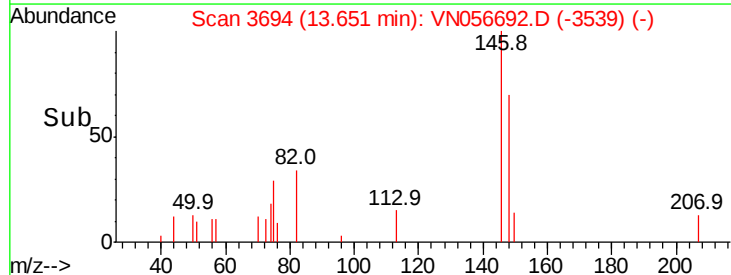
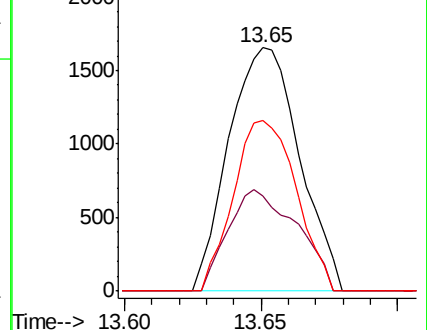
148 62.4 32.7 98.1

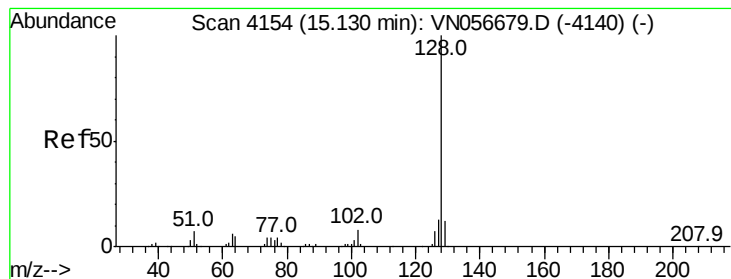


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#91

Naphthalene

Concen: 4.698 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN056692.D

Acq: 12 Jul 2019 16:41

Instrument :

MSVOA_N

ClientSampleId :

390711759.3-VOA

Tot Ion:128 Resp: 41771

Ion Ratio Lower Upper

128 100

127 13.7 10.4 15.6

129 11.2 8.8 13.2

