

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011620\
 Data File : VN059745.D
 Acq On : 16 Jan 2020 20:22
 Operator : JC/MD
 Sample : L1159-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 4001157623

Quant Time: Jan 17 08:39:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 14 08:58:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	209313	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	309669	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	268841	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	119927	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	107826	46.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.78%	
35) Dibromofluoromethane	7.57	113	95113	51.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.00%	
50) Toluene-d8	10.08	98	353137	49.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.72%	
62) 4-Bromofluorobenzene	12.40	95	123458	47.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.72%	

Target Compounds

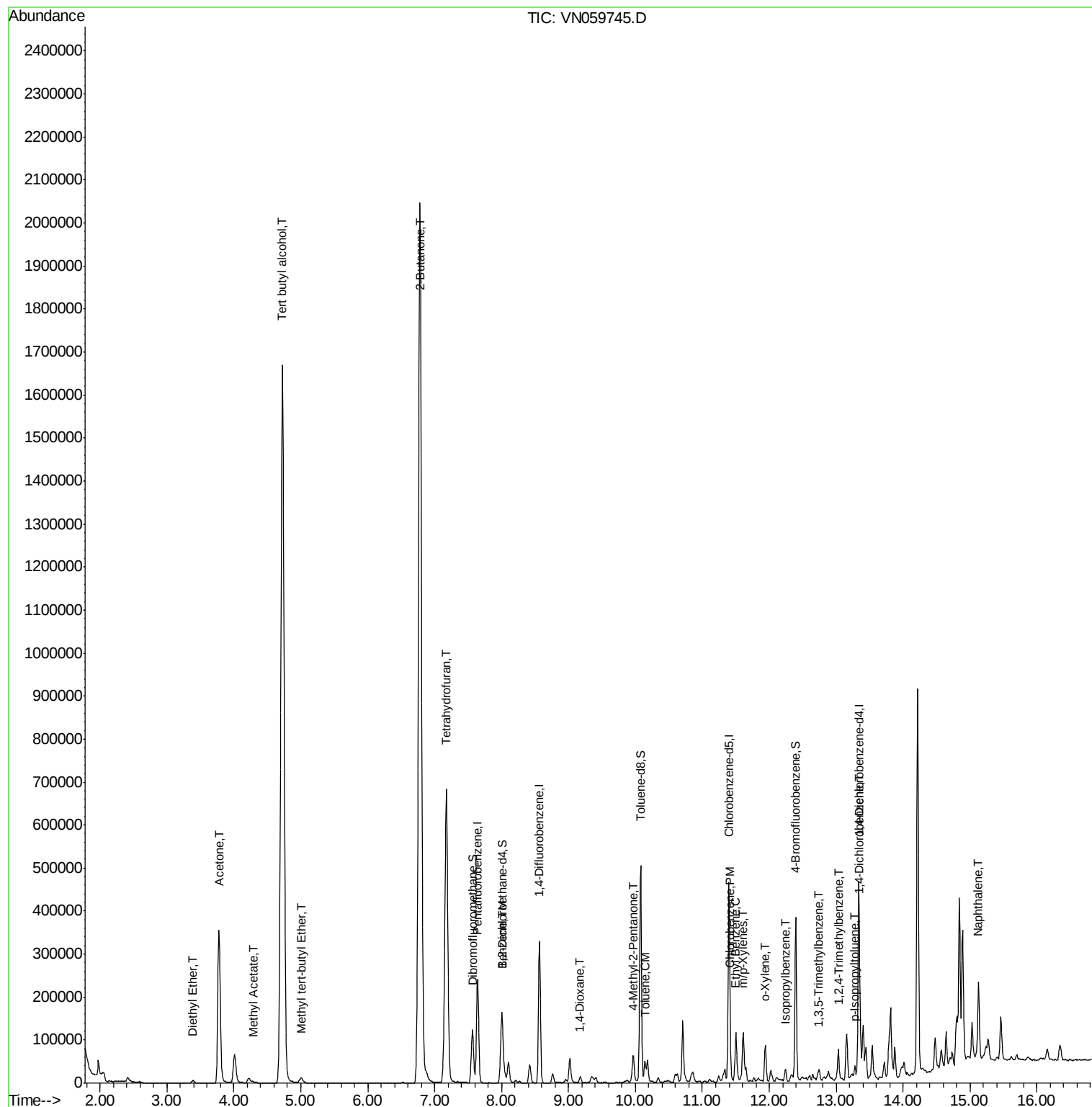
						Qvalue
8) Diethyl Ether	3.39	74	3269	2.829	ug/l	86
11) Tert butyl alcohol	4.72	59	3362946	8594.004	ug/l	99
16) Acetone	3.78	43	572559	741.884	ug/l	96
18) Methyl Acetate	4.29	43	3202	1.179	ug/l #	88
19) Methyl tert-butyl Ether	5.00	73	19161	3.069	ug/l	94
25) 2-Butanone	6.80	43	776922	590.216	ug/l	94
29) Tetrahydrofuran	7.18	42	522885	642.016	ug/l #	86
40) Benzene	8.02	78	45364	5.640	ug/l	100
49) 1,4-Dioxane	9.18	88	4448	124.862	ug/l #	78
51) 4-Methyl-2-Pentanone	9.97	43	46202	18.372	ug/l	98
52) Toluene	10.14	92	21770	4.285	ug/l	94
65) Chlorobenzene	11.43	112	7918	1.498	ug/l	91
67) Ethyl Benzene	11.50	91	73774	7.691	ug/l	98
68) m/p-Xylenes	11.61	106	36899	10.183	ug/l	96
69) o-Xylene	11.94	106	21847	6.159	ug/l	95
73) Isopropylbenzene	12.24	105	12659	1.439	ug/l	96
80) 1,3,5-Trimethylbenzene	12.73	105	6695	0.905	ug/l	98
84) 1,2,4-Trimethylbenzene	13.03	105	35852	4.899	ug/l	97
86) p-Isopropyltoluene	13.28	119	15996	2.057	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	27355	7.087	ug/l	97
95) Naphthalene	15.13	128	157061	24.025	ug/l	99

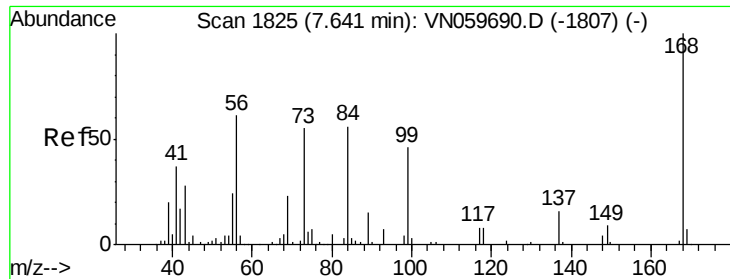
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN059745.D

Acq: 16 Jan 2020 20:22

Instrument :

MSVOA_N

ClientSampleId :

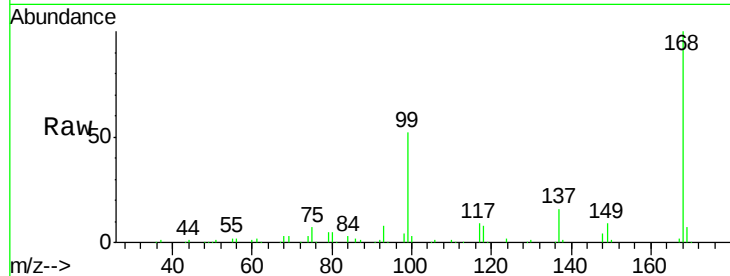
4001157623

Tot Ion:168 Resp: 209313

Ion Ratio Lower Upper

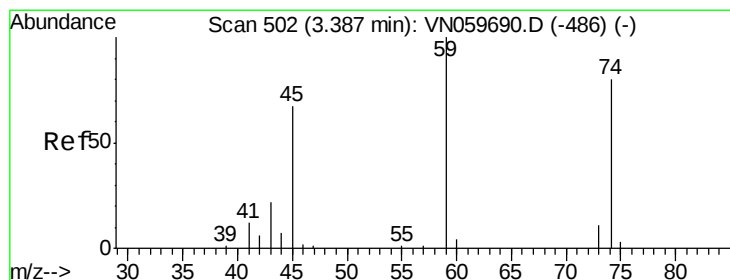
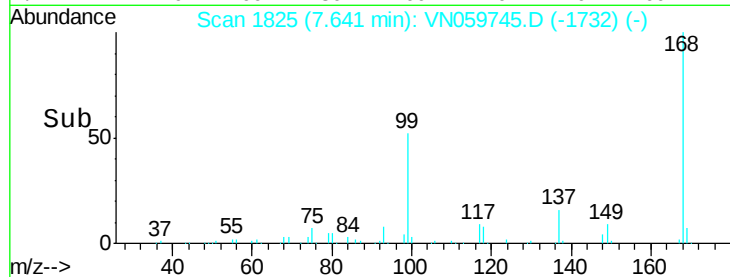
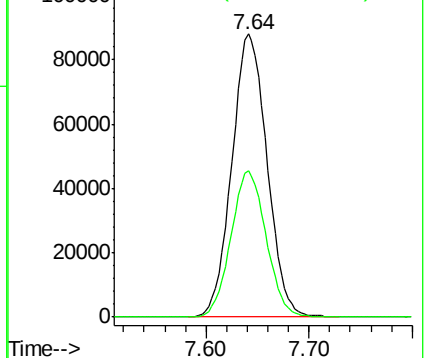
168 100

99 51.7 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#8

Diethyl Ether

Concen: 2.829 ug/l

RT: 3.39 min Scan# 503

Delta R.T. 0.00 min

Lab File: VN059745.D

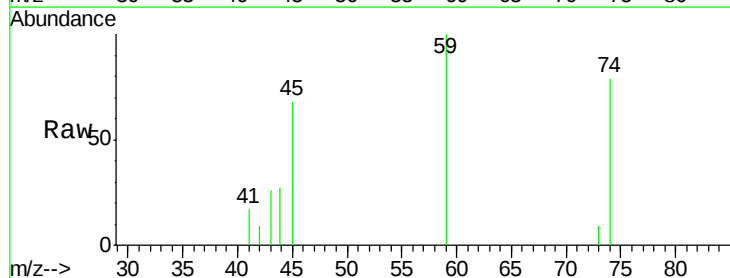
Acq: 16 Jan 2020 20:22

Tgt Ion: 74 Resp: 3269

Ion Ratio Lower Upper

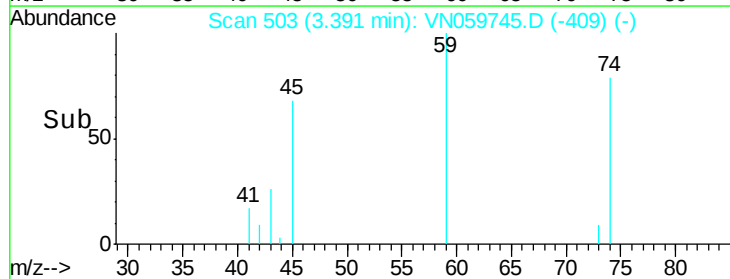
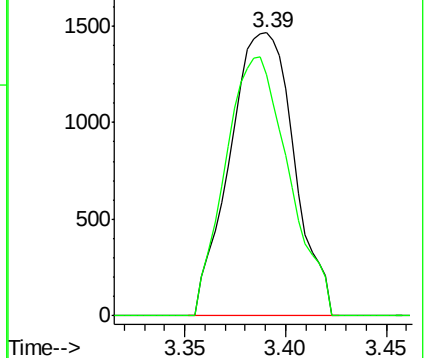
74 100

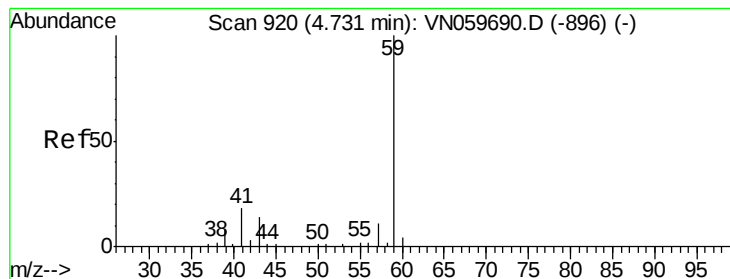
45 90.0 51.9 155.8



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO



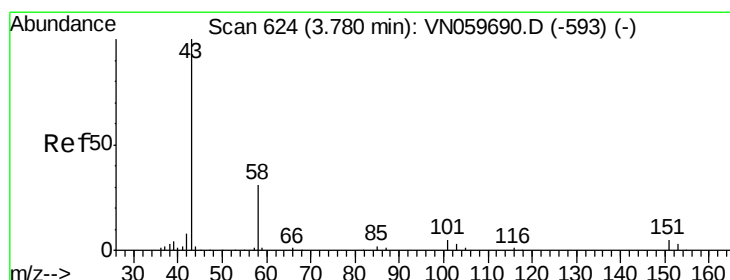
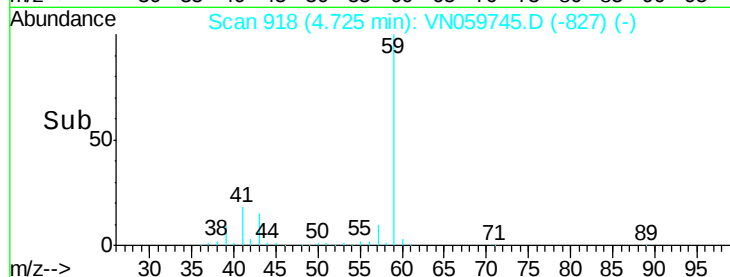
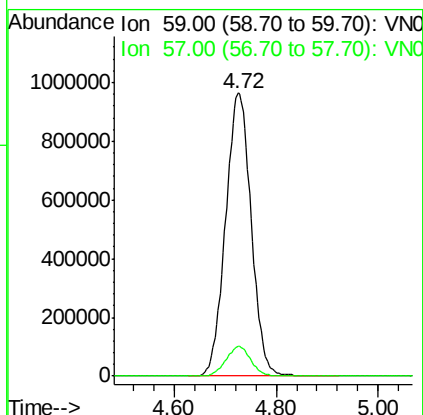
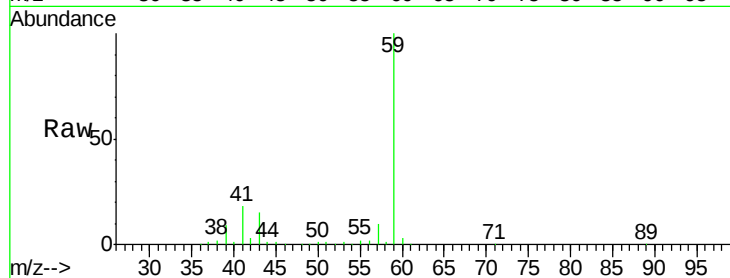


#11

Tert butyl alcohol
 Concen: 8594.004 ug/l
 RT: 4.72 min Scan# 918
 Delta R.T. -0.01 min
 Lab File: VN059745.D
 Acq: 16 Jan 2020 20:22

Instrument :
 MSVOA_N
 ClientSampled :
 4001157623

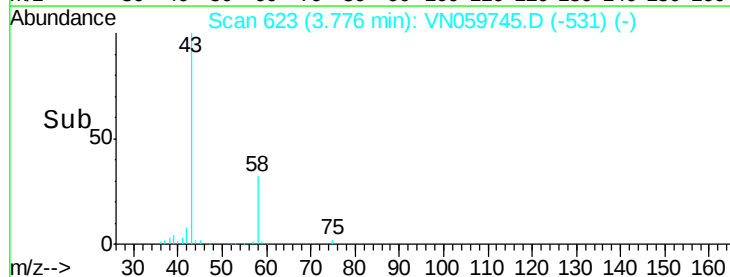
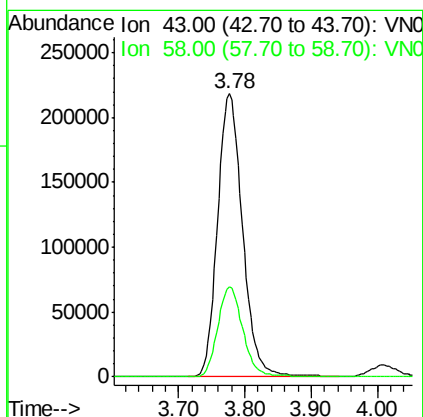
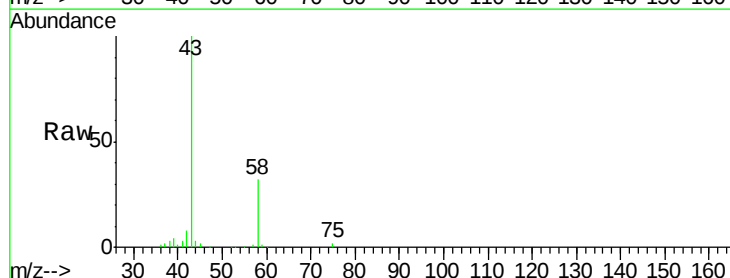
Tot Ion: 59 Resp: 3362946
 Ion Ratio Lower Upper
 59 100
 57 10.3 8.6 12.8

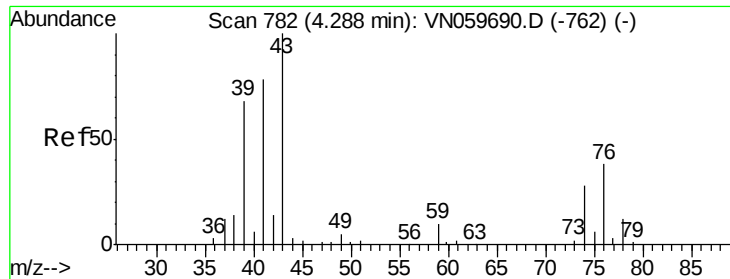


#16

Acetone
 Concen: 741.884 ug/l
 RT: 3.78 min Scan# 623
 Delta R.T. -0.00 min
 Lab File: VN059745.D
 Acq: 16 Jan 2020 20:22

Tgt Ion: 43 Resp: 572559
 Ion Ratio Lower Upper
 43 100
 58 31.7 23.6 35.4

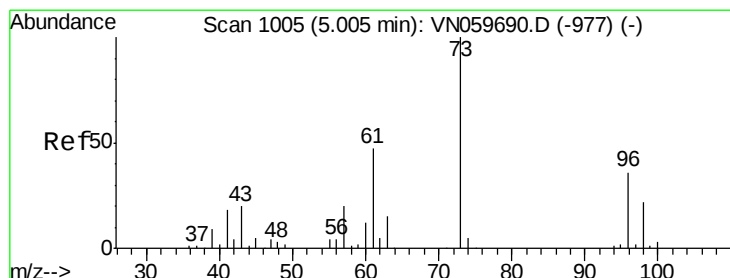
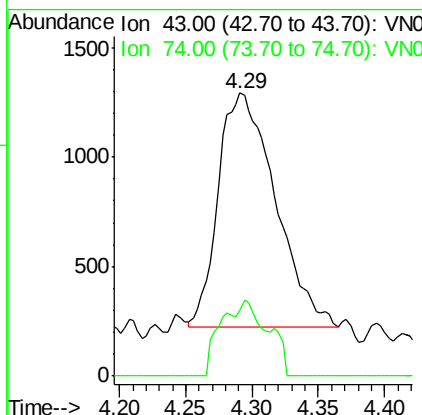
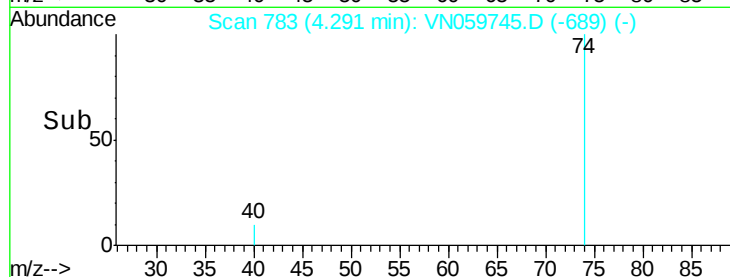
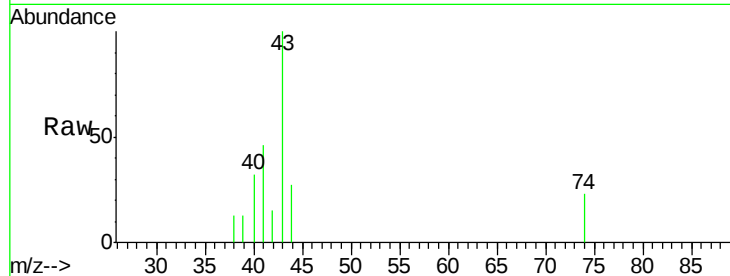




#18
Methyl Acetate
Concen: 1.179 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.00 min
Lab File: VN059745.D
Acq: 16 Jan 2020 20:22

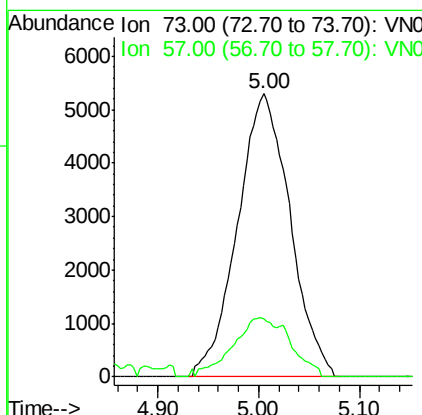
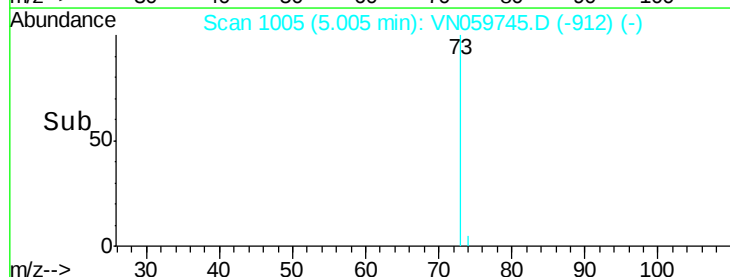
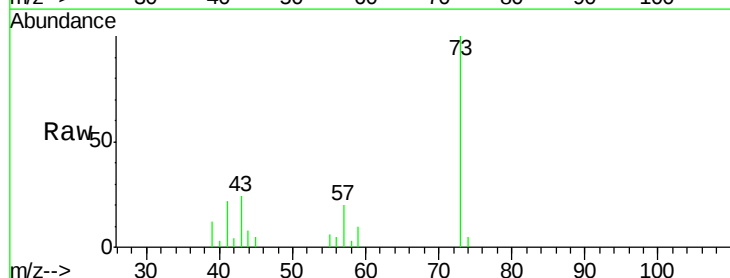
Instrument :
MSVOA_N
ClientSampled :
4001157623

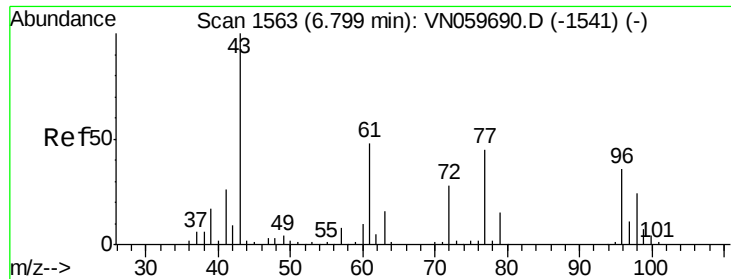
Tot Ion: 43 Resp: 3202
Ion Ratio Lower Upper
43 100
74 16.3 17.5 26.3#



#19
Methyl tert-butyl Ether
Concen: 3.069 ug/l
RT: 5.00 min Scan# 1005
Delta R.T. 0.00 min
Lab File: VN059745.D
Acq: 16 Jan 2020 20:22

Tgt Ion: 73 Resp: 19161
Ion Ratio Lower Upper
73 100
57 20.4 18.6 27.8

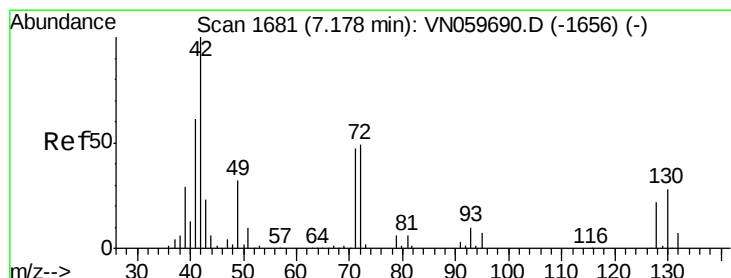
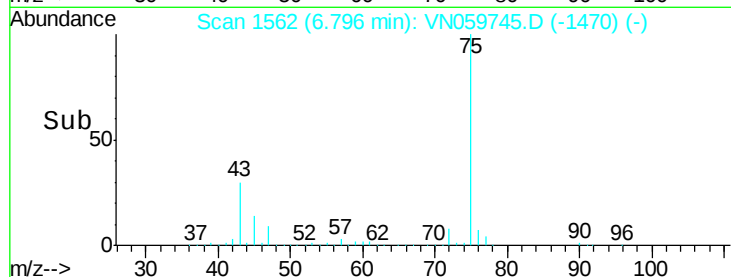
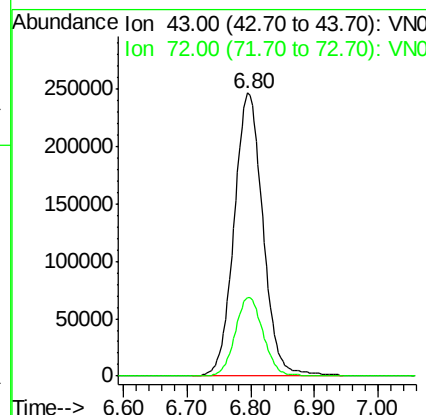
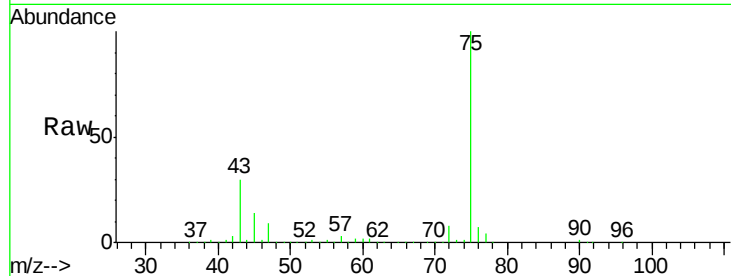




#25
2-Butanone
Concen: 590.216 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. -0.00 min
Lab File: VN059745.D
Acq: 16 Jan 2020 20:22

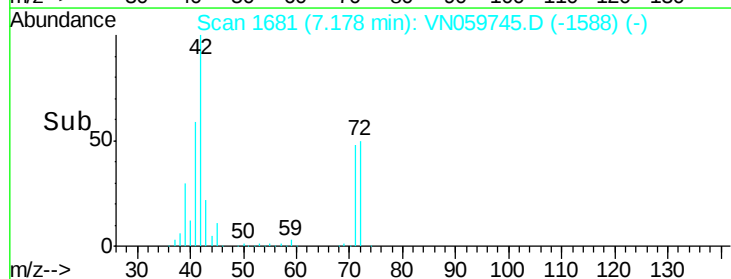
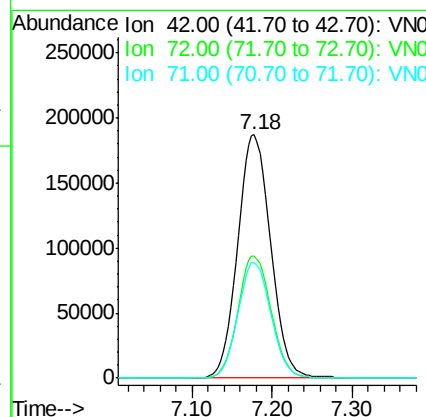
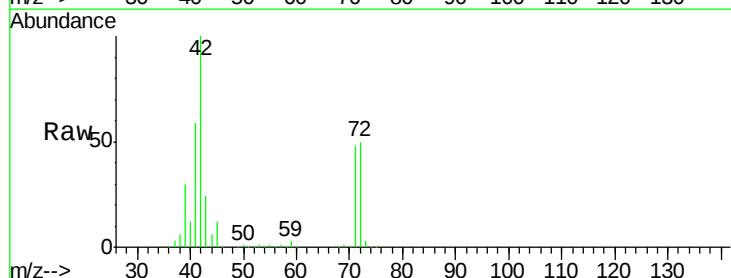
Instrument :
MSVOA_N
ClientSampled :
4001157623

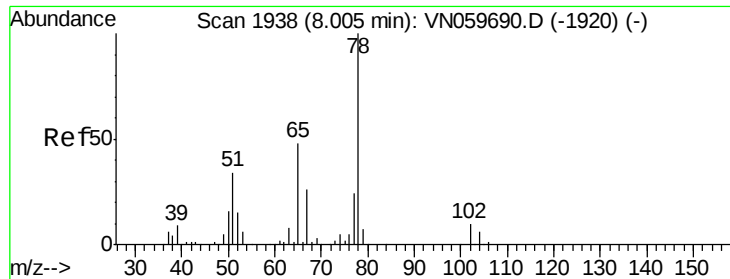
Tot Ion: 43 Resp: 776922
Ion Ratio Lower Upper
43 100
72 28.0 19.9 29.9



#29
Tetrahydrofuran
Concen: 642.016 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN059745.D
Acq: 16 Jan 2020 20:22

Tgt Ion: 42 Resp: 522885
Ion Ratio Lower Upper
42 100
72 50.5 33.1 49.7#
71 47.4 31.4 47.0#

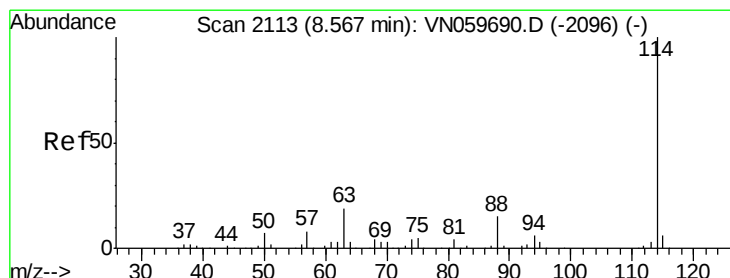
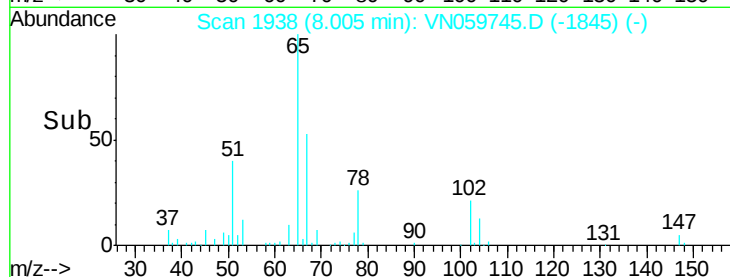
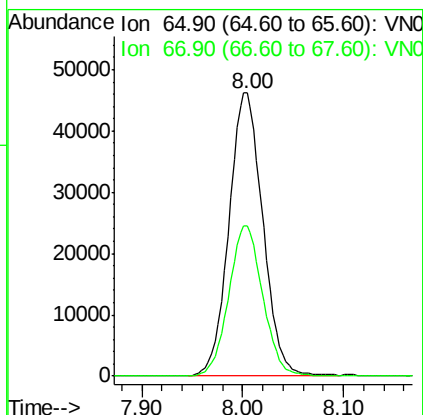
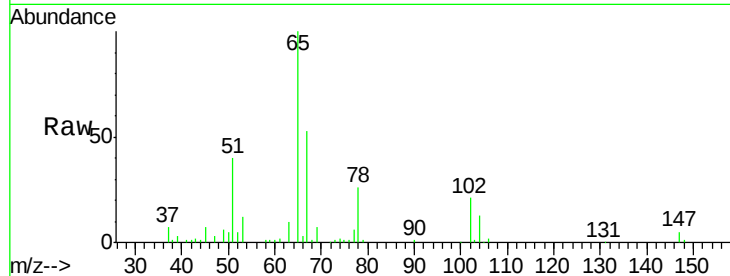




#33
 1,2-Dichloroethane-d4
 Concen: 46.387 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN059745.D
 Acq: 16 Jan 2020 20:22

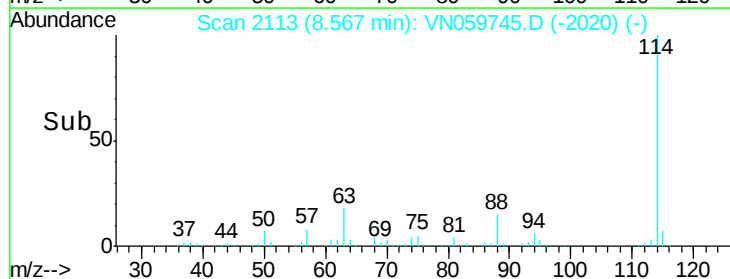
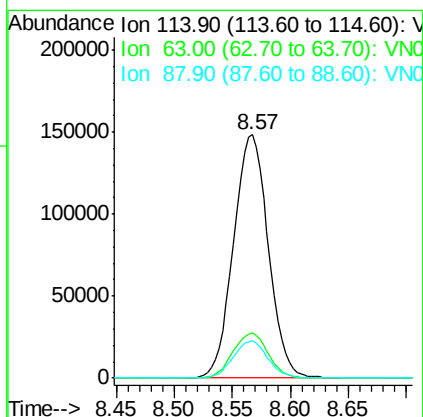
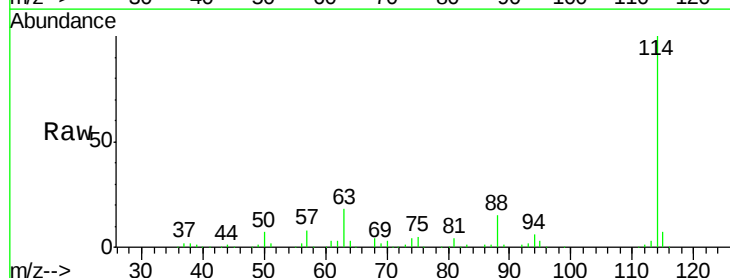
Instrument :
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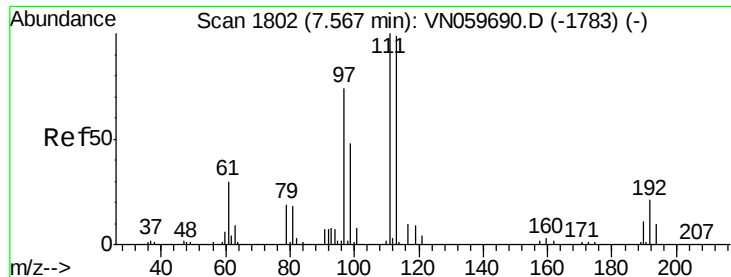
Tot Ion: 65 Resp: 107826
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059745.D
 Acq: 16 Jan 2020 20:22

Tgt Ion: 114 Resp: 309669
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 43.6
 88 15.2 0.0 31.4

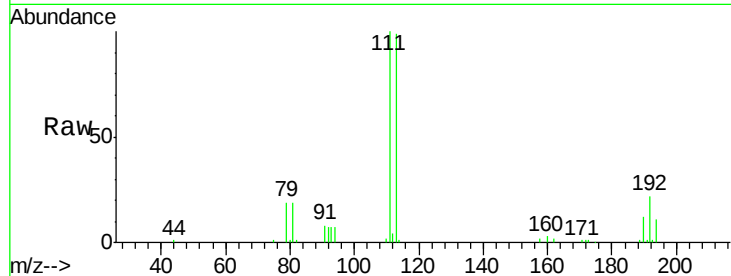




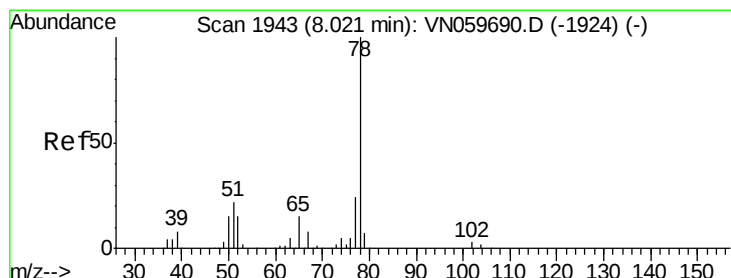
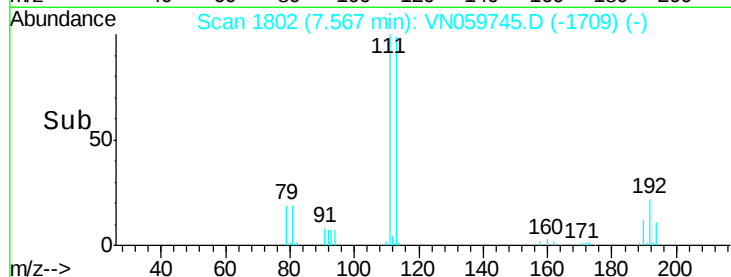
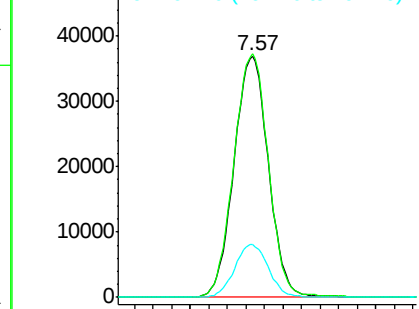
#35
Dibromofluoromethane
Concen: 51.505 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN059745.D
Acq: 16 Jan 2020 20:22

Instrument :
MSVOA_N
ClientSampleId :
4001157623

Tot Ion:113 Resp: 95113
Ion Ratio Lower Upper
113 100
111 101.3 83.5 125.3
192 21.3 15.4 23.2

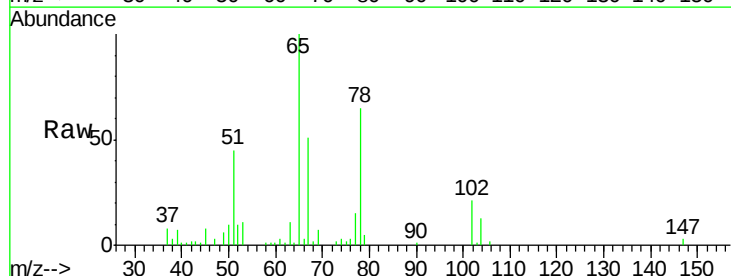


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

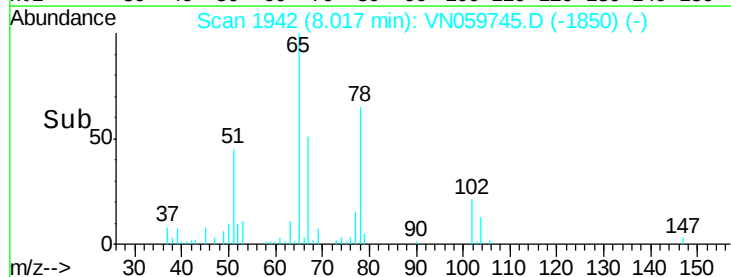
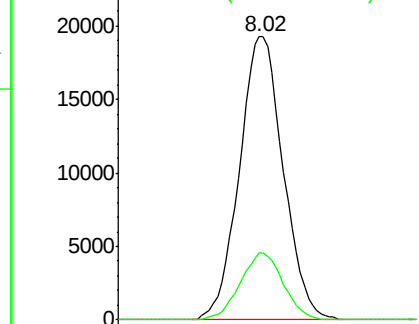


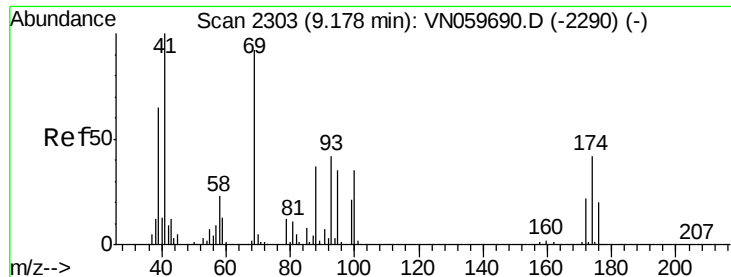
#40
Benzene
Concen: 5.640 ug/l
RT: 8.02 min Scan# 1942
Delta R.T. -0.00 min
Lab File: VN059745.D
Acq: 16 Jan 2020 20:22

Tgt Ion: 78 Resp: 45364
Ion Ratio Lower Upper
78 100
77 23.6 18.9 28.3



Abundance Ion 78.00 (77.70 to 78.70): V
Ion 77.00 (76.70 to 77.70): V

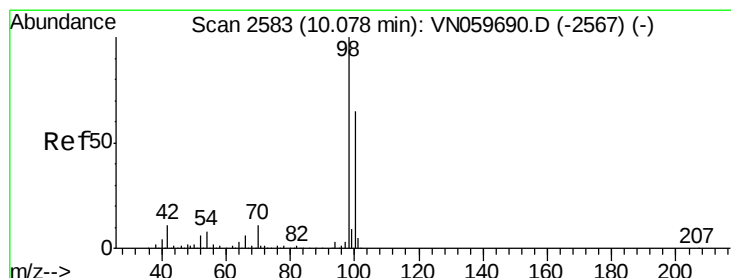
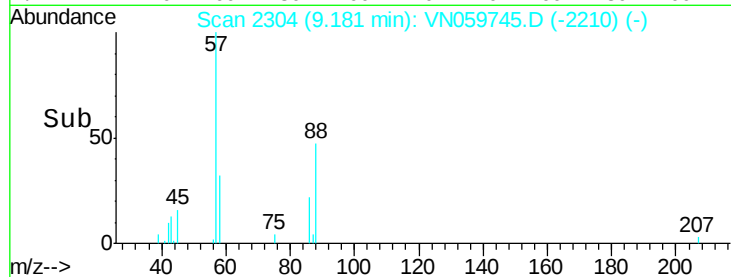
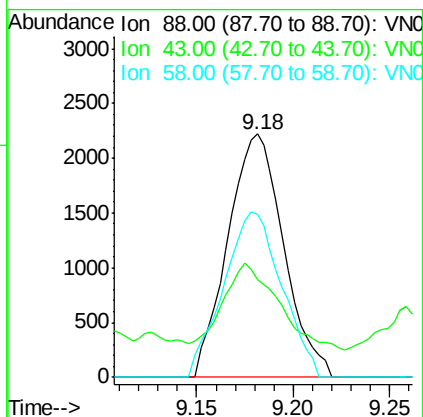
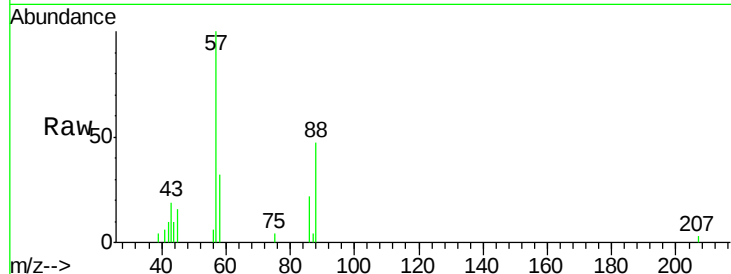




#49
 1,4-Dioxane
 Concen: 124.862 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. 0.00 min
 Lab File: VN059745.D
 Acq: 16 Jan 2020 20:22

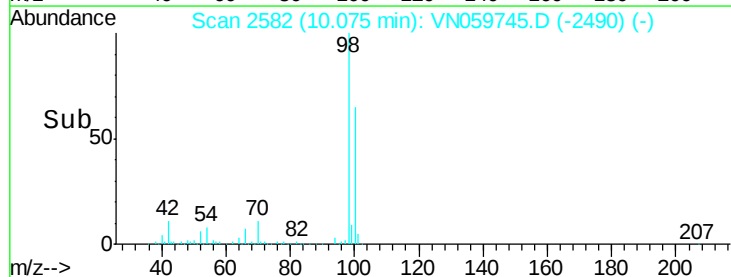
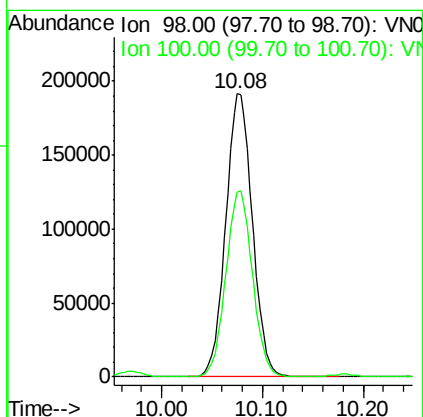
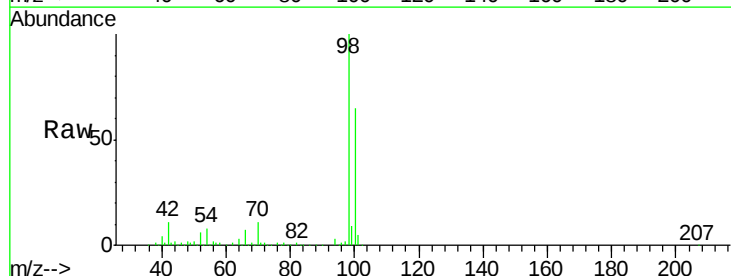
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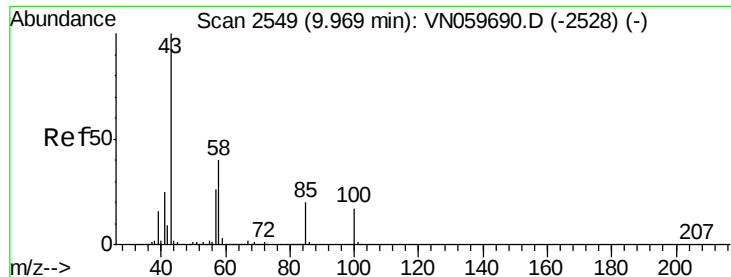
Tot Ion: 88 Resp: 4448
 Ion Ratio Lower Upper
 88 100
 43 0.0 29.7 44.5#
 58 70.7 56.6 85.0



#50
 Toluene-d8
 Concen: 49.355 ug/l
 RT: 10.08 min Scan# 2582
 Delta R.T. -0.00 min
 Lab File: VN059745.D
 Acq: 16 Jan 2020 20:22

Tgt Ion: 98 Resp: 353137
 Ion Ratio Lower Upper
 98 100
 100 65.8 51.2 76.8

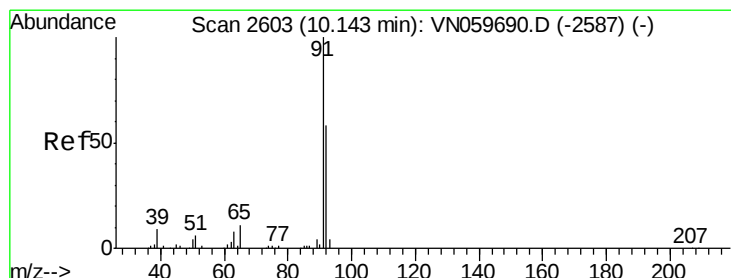
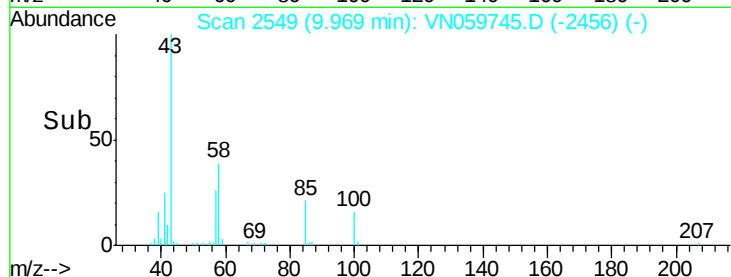
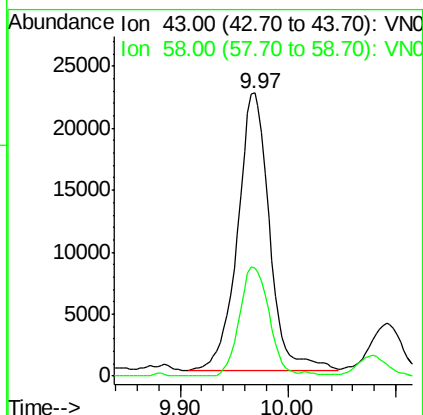
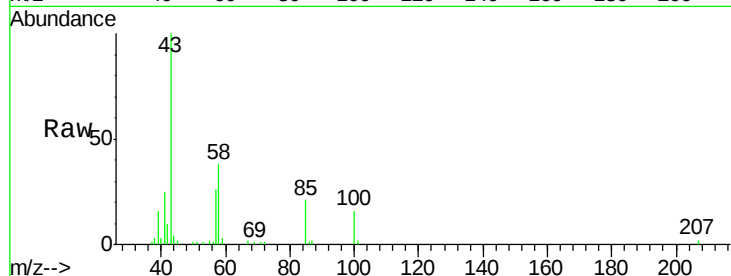




#51
 4-Methyl-2-Pentanone
 Concen: 18.372 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. 0.00 min
 Lab File: VN059745.D
 Acq: 16 Jan 2020 20:22

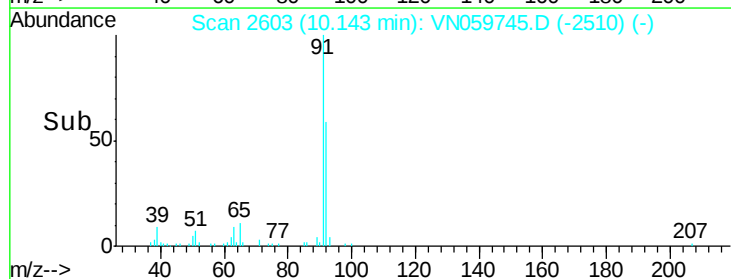
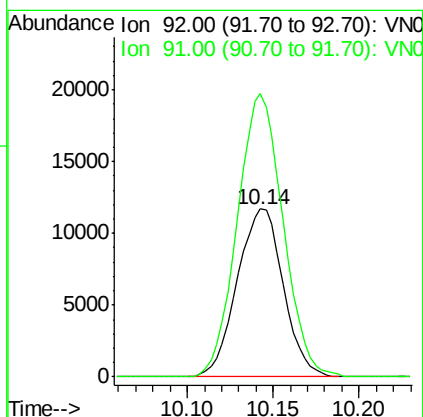
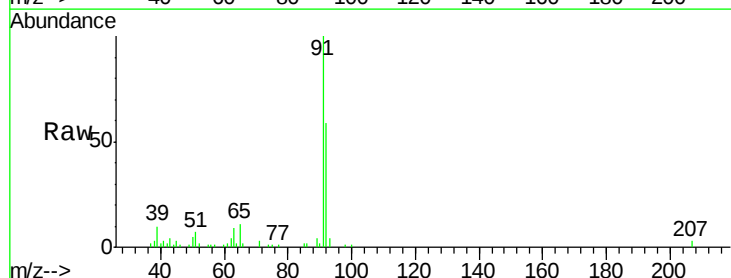
Instrument :
 MSVOA_N
 ClientSampleId :
 4001157623

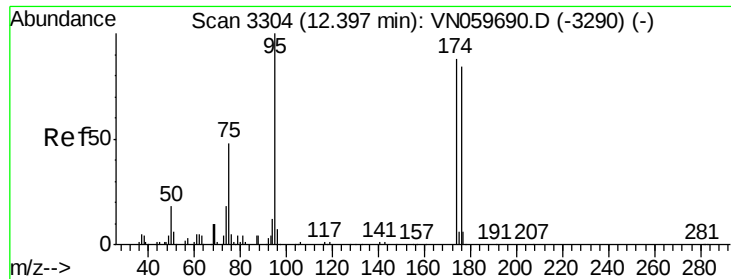
Tot Ion: 43 Resp: 46202
 Ion Ratio Lower Upper
 43 100
 58 36.3 29.8 44.8



#52
 Toluene
 Concen: 4.285 ug/l
 RT: 10.14 min Scan# 2603
 Delta R.T. 0.00 min
 Lab File: VN059745.D
 Acq: 16 Jan 2020 20:22

Tgt Ion: 92 Resp: 21770
 Ion Ratio Lower Upper
 92 100
 91 167.6 140.4 210.6

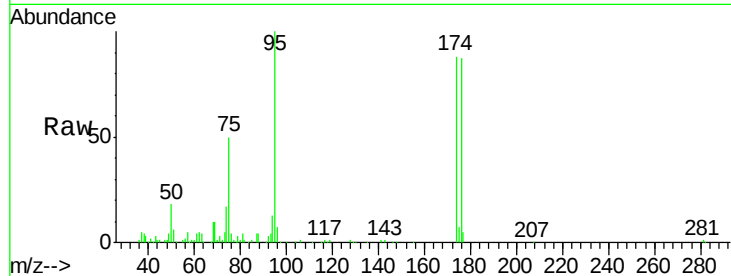




#62
4-Bromofluorobenzene
Concen: 47.864 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059745.D
Acq: 16 Jan 2020 20:22

Instrument :
MSVOA_N
ClientSampleId :
4001157623

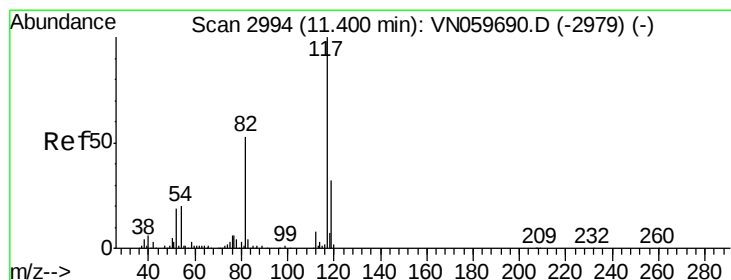
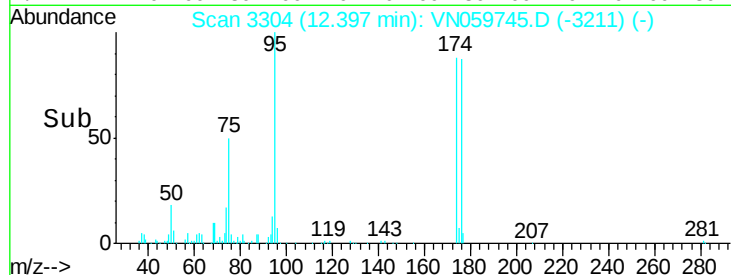
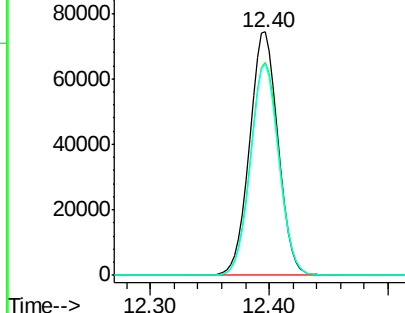
Tot Ion	Ratio	Lower	Upper
95	100		
174	87.9	0.0	151.4
176	85.8	0.0	146.0



Abundance Ion 94.90 (94.60 to 95.60): VN059690.D (-3290) (-)

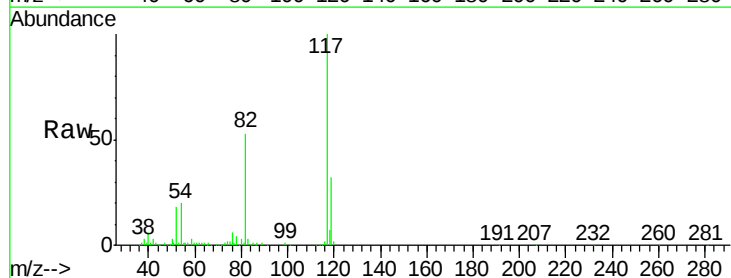
Ion 173.80 (173.50 to 174.50): VN059690.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN059690.D (-3290) (-)



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059745.D
Acq: 16 Jan 2020 20:22

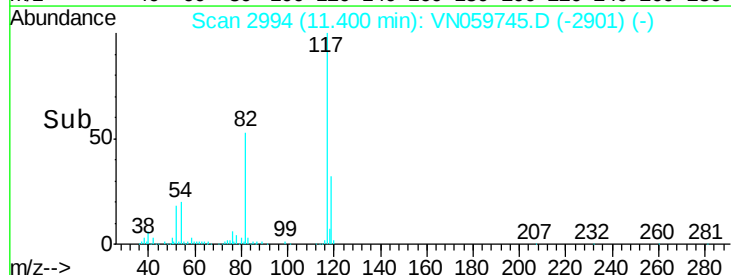
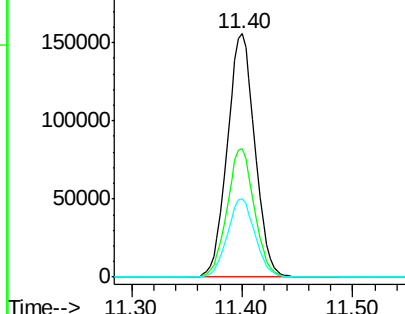
Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.6	45.9	68.9
119	32.4	25.5	38.3

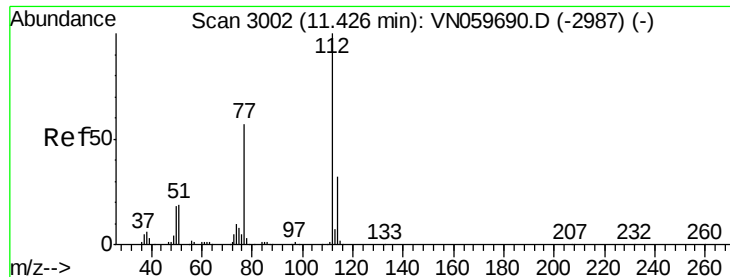


Abundance Ion 116.90 (116.60 to 117.60): VN059690.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN059690.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN059690.D (-2979) (-)





#65

Chlorobenzene

Concen: 1.498 ug/l

RT: 11.43 min Scan# 3002

Delta R.T. 0.00 min

Lab File: VN059745.D

Acq: 16 Jan 2020 20:22

Instrument :

MSVOA_N

ClientSampleId :

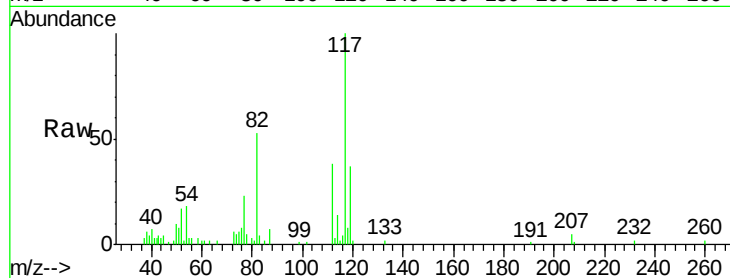
4001157623

Tot Ion:112 Resp: 7918

Ion Ratio Lower Upper

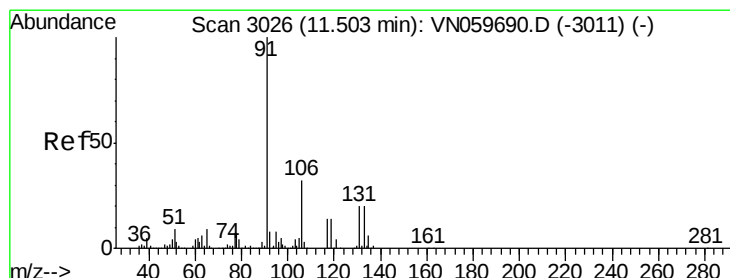
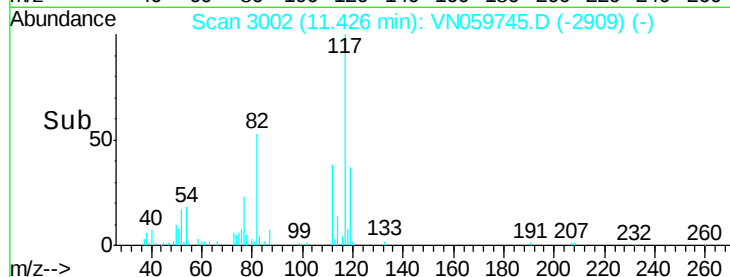
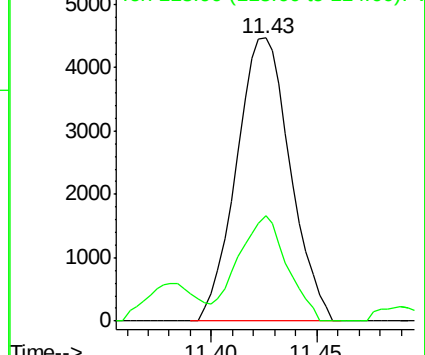
112 100

114 37.1 25.8 38.8



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#67

Ethyl Benzene

Concen: 7.691 ug/l

RT: 11.50 min Scan# 3026

Delta R.T. 0.00 min

Lab File: VN059745.D

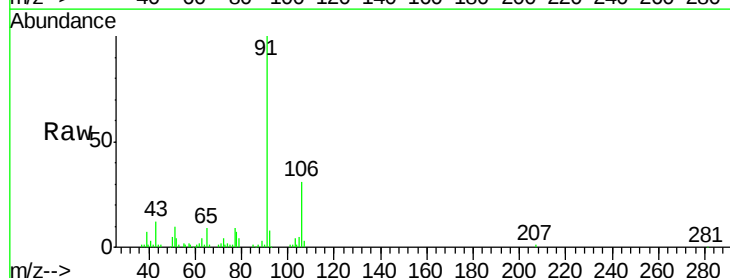
Acq: 16 Jan 2020 20:22

Tgt Ion: 91 Resp: 73774

Ion Ratio Lower Upper

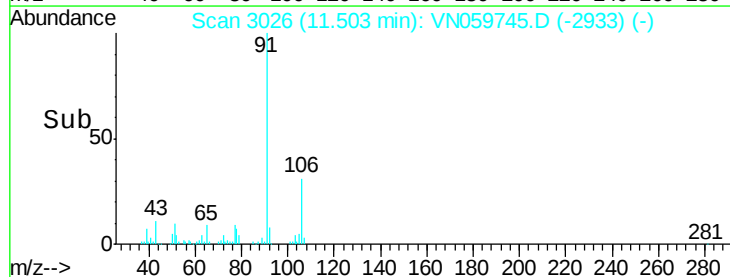
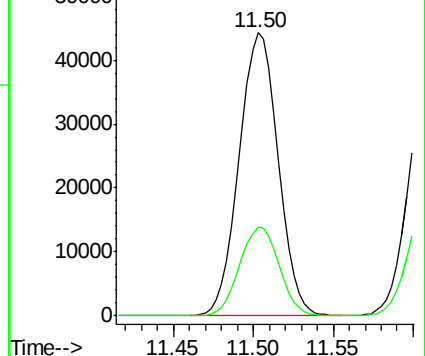
91 100

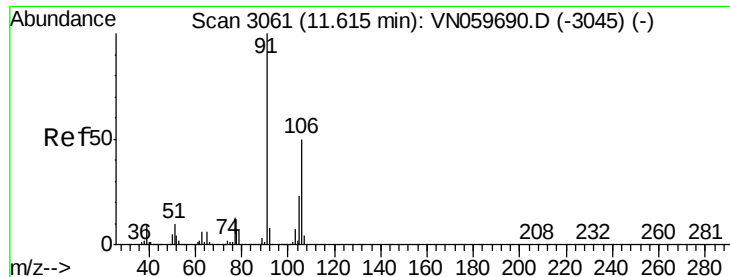
106 31.3 24.1 36.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 10.183 ug/l

RT: 11.61 min Scan# 3059

Delta R.T. -0.01 min

Lab File: VN059745.D

Acq: 16 Jan 2020 20:22

Instrument :

MSVOA_N

ClientSampleId :

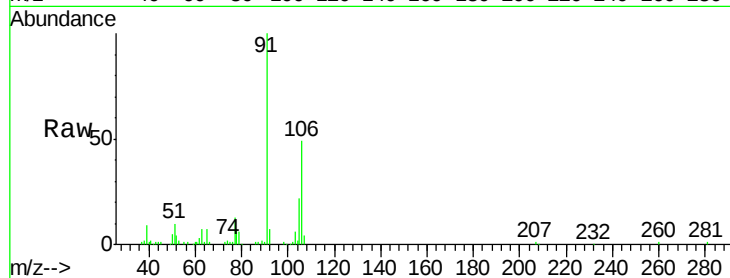
4001157623

Tot Ion:106 Resp: 36899

Ion Ratio Lower Upper

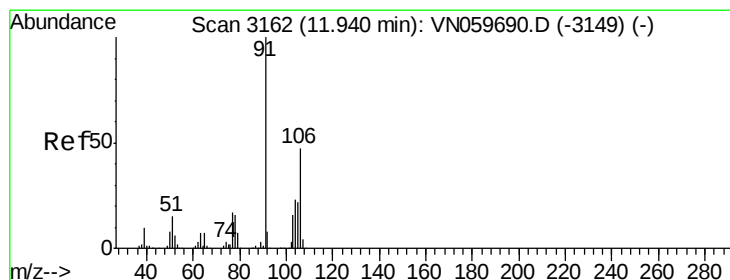
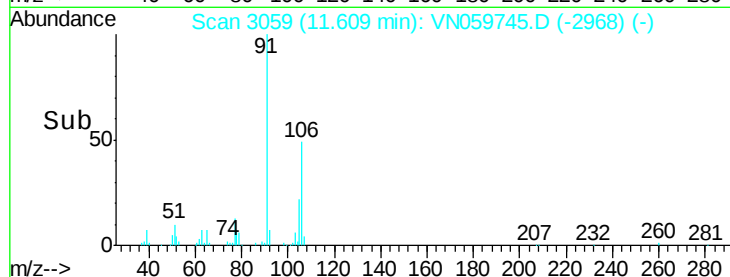
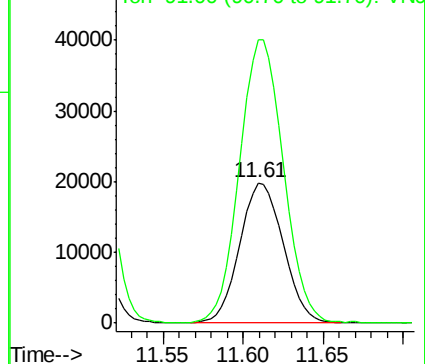
106 100

91 203.8 167.9 251.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#69

o-Xylene

Concen: 6.159 ug/l

RT: 11.94 min Scan# 3162

Delta R.T. 0.00 min

Lab File: VN059745.D

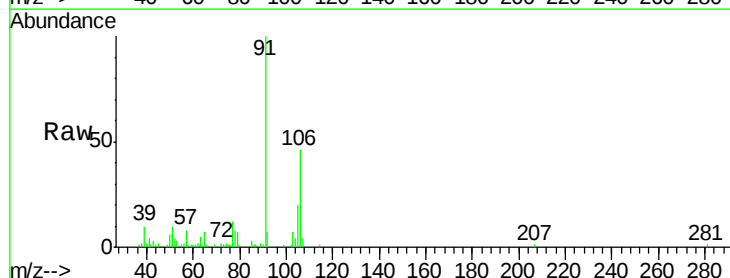
Acq: 16 Jan 2020 20:22

Tgt Ion:106 Resp: 21847

Ion Ratio Lower Upper

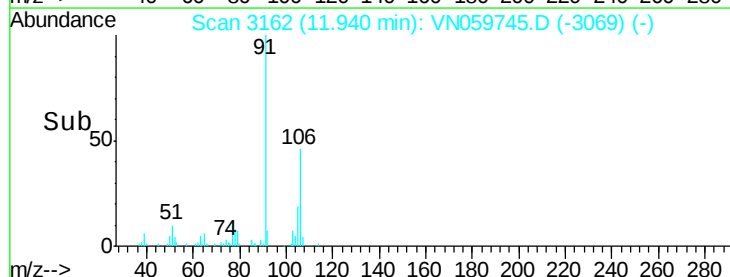
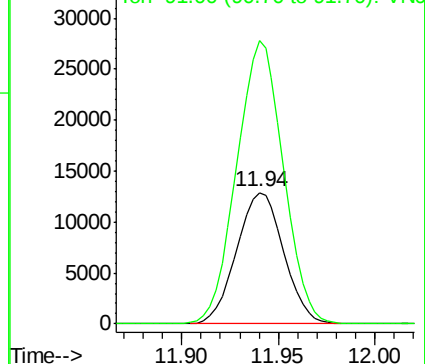
106 100

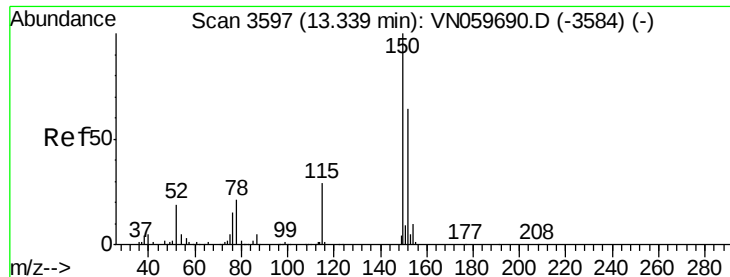
91 213.2 110.3 330.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059745.D

Acq: 16 Jan 2020 20:22

Instrument :

MSVOA_N

ClientSampled :

4001157623

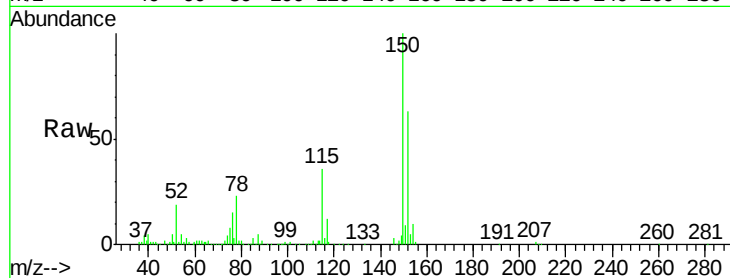
Tot Ion:152 Resp: 119927

Ion Ratio Lower Upper

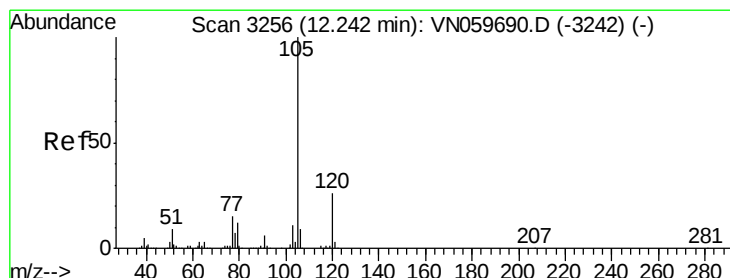
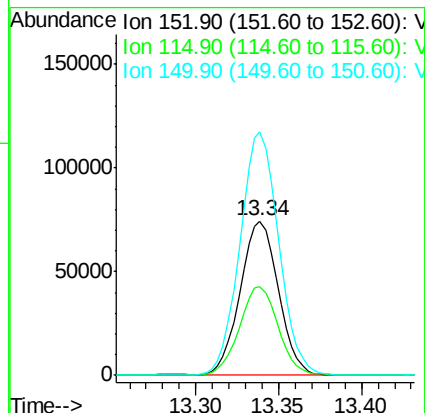
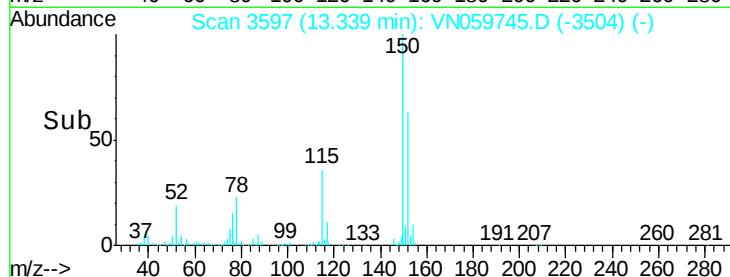
152 100

115 57.2 30.3 90.9

150 160.0 0.0 345.2



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



#73

Isopropylbenzene

Concen: 1.439 ug/l

RT: 12.24 min Scan# 3256

Delta R.T. 0.00 min

Lab File: VN059745.D

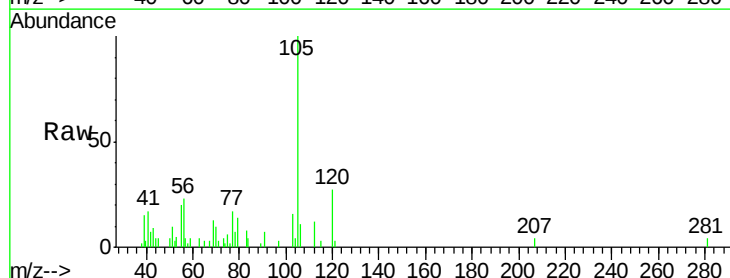
Acq: 16 Jan 2020 20:22

Tgt Ion:105 Resp: 12659

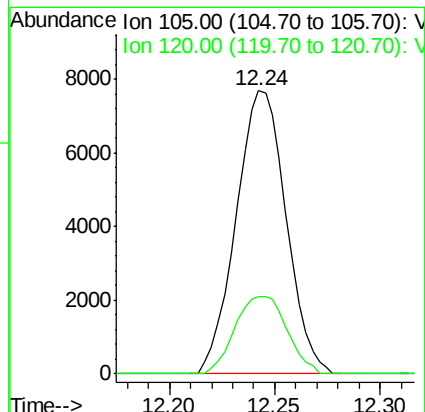
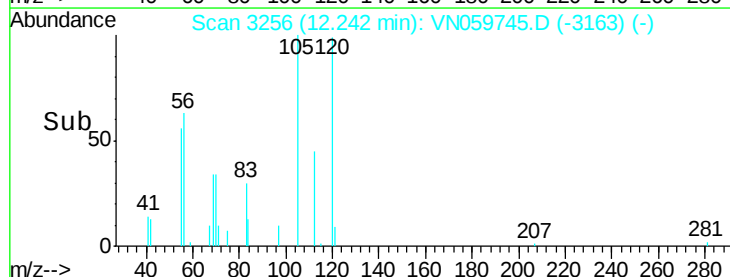
Ion Ratio Lower Upper

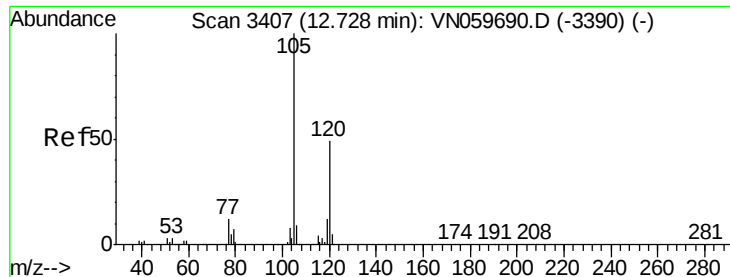
105 100

120 28.4 13.2 39.5



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

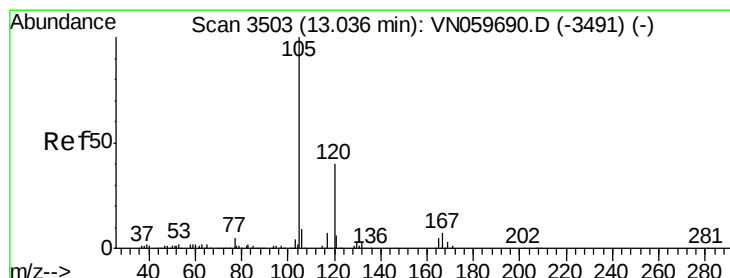
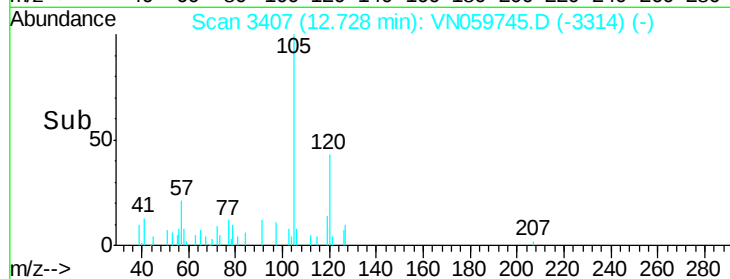
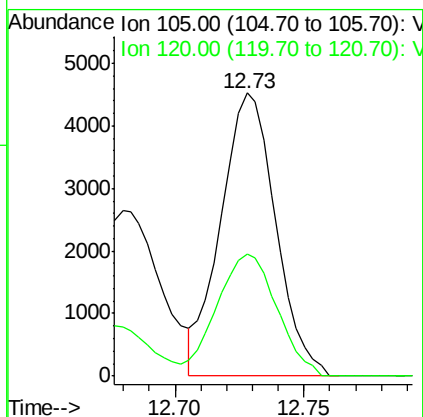
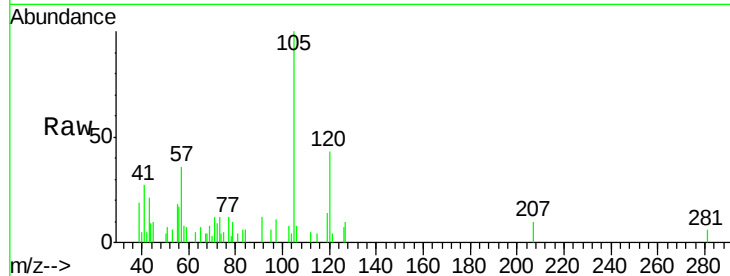




#80
 1,3,5-Trimethylbenzene
 Concen: 0.905 ug/l
 RT: 12.73 min Scan# 3407
 Delta R.T. 0.00 min
 Lab File: VN059745.D
 Acq: 16 Jan 2020 20:22

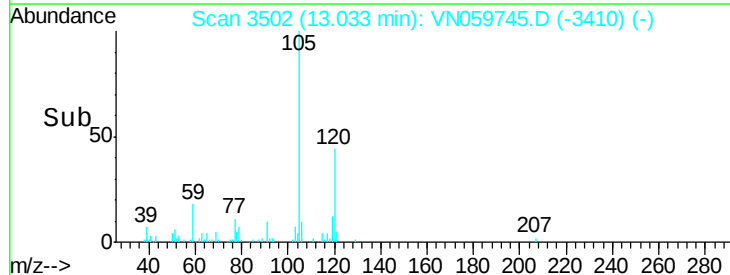
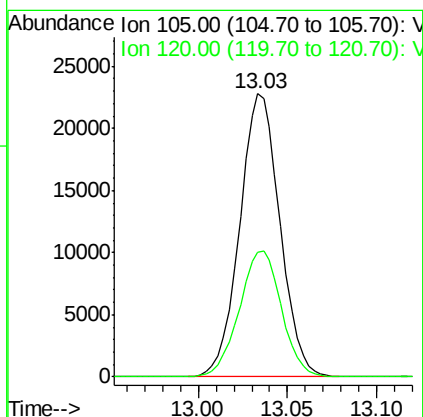
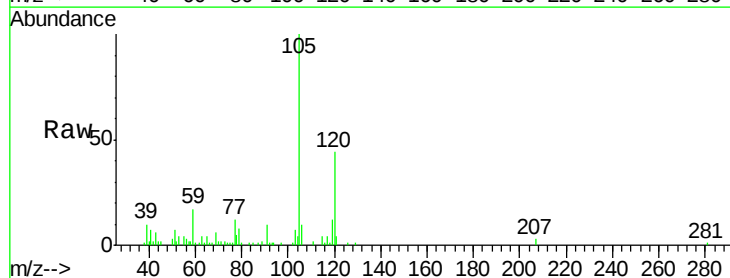
Instrument :
 MSVOA_N
 ClientSampled :
 4001157623

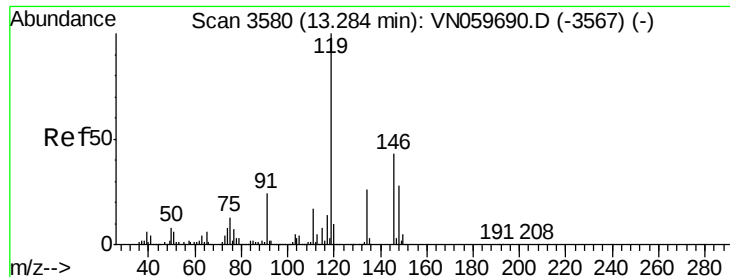
Tot Ion:105 Resp: 6695
 Ion Ratio Lower Upper
 105 100
 120 47.3 24.1 72.4



#84
 1,2,4-Trimethylbenzene
 Concen: 4.899 ug/l
 RT: 13.03 min Scan# 3502
 Delta R.T. -0.00 min
 Lab File: VN059745.D
 Acq: 16 Jan 2020 20:22

Tgt Ion:105 Resp: 35852
 Ion Ratio Lower Upper
 105 100
 120 46.7 22.3 66.9

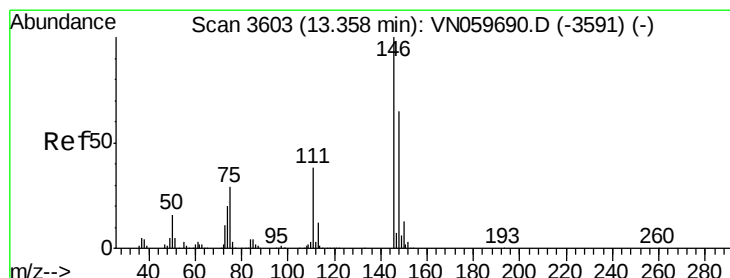
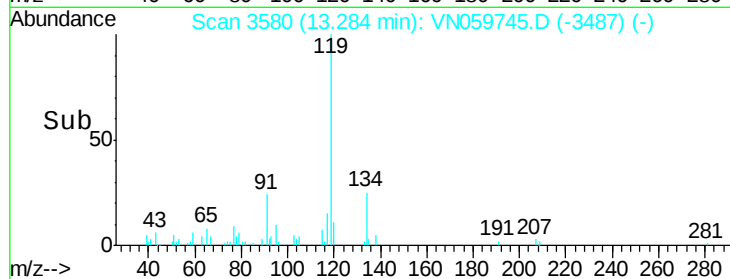
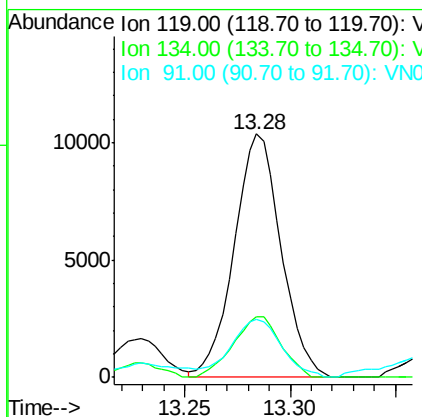
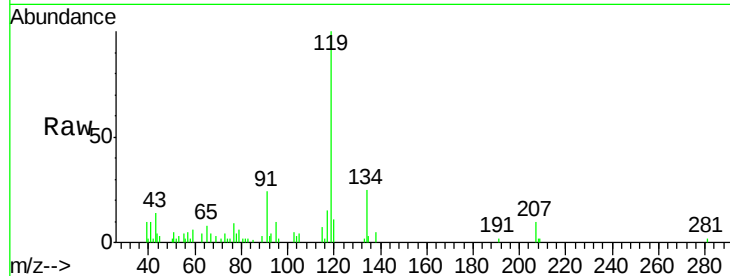




#86
p-Isopropyltoluene
Concen: 2.057 ug/l
RT: 13.28 min Scan# 3580
Delta R.T. 0.00 min
Lab File: VN059745.D
Acq: 16 Jan 2020 20:22

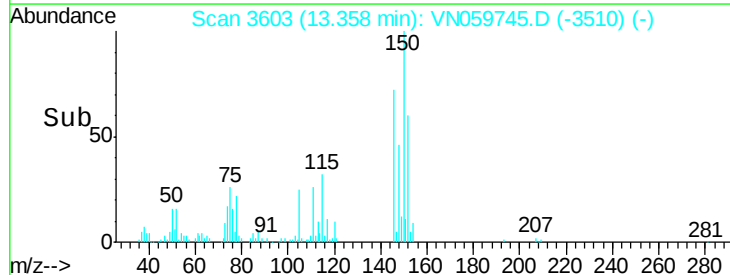
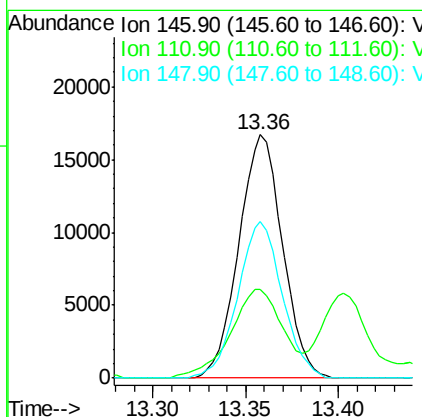
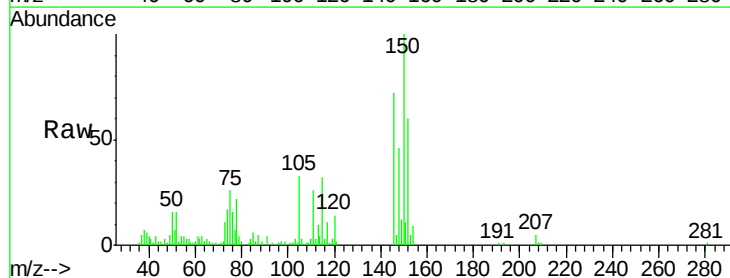
Instrument :
MSVOA_N
ClientSampled :
4001157623

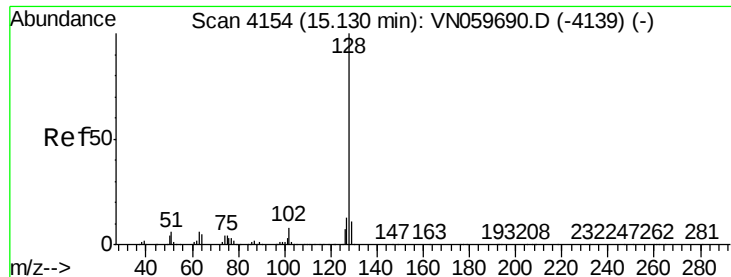
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.9	38.7
91	25.7	12.4	37.4



#88
1,4-Dichlorobenzene
Concen: 7.087 ug/l
RT: 13.36 min Scan# 3603
Delta R.T. 0.00 min
Lab File: VN059745.D
Acq: 16 Jan 2020 20:22

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.6	20.8	62.2
148	65.2	31.8	95.4





#95

Naphthalene

Concen: 24.025 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN059745.D

Acq: 16 Jan 2020 20:22

Instrument :

MSVOA_N

ClientSampleId :

4001157623

Tot Ion:128 Resp: 157061

Ion Ratio Lower Upper

128 100

127 12.7 10.4 15.6

129 10.9 8.6 12.8

