

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021119\
 Data File : VN053717.D
 Acq On : 11 Feb 2019 20:48
 Operator : JC/SP
 Sample : K1448-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30228

Quant Time: Feb 11 23:35:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	765203	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1205134	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1148738	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	556412	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	377713	49.20	ug/l	0.00
Spiked Amount			Recovery	=	98.40%	
35) Dibromofluoromethane	7.59	113	371961	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
50) Toluene-d8	10.09	98	1488451	52.06	ug/l	0.00
Spiked Amount			Recovery	=	104.12%	
62) 4-Bromofluorobenzene	12.40	95	529479	55.52	ug/l	0.00
Spiked Amount			Recovery	=	111.04%	

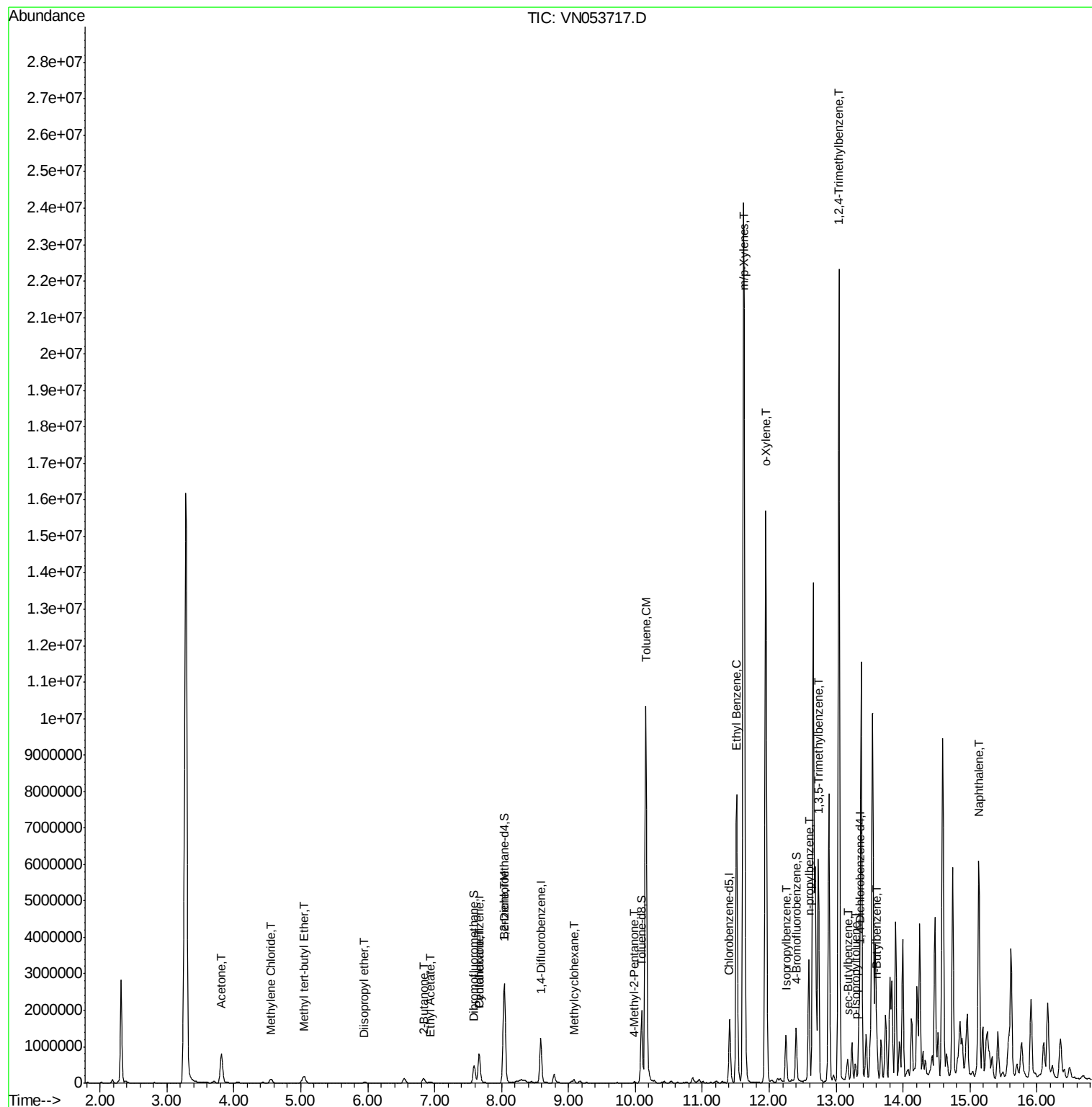
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.81	43	1344268	682.705	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	334268	18.608	ug/l	99
20) Methylene Chloride	4.55	84	80243	9.714	ug/l	98
22) Diisopropyl ether	5.95	45	29841	1.427	ug/l	95
25) 2-Butanone	6.83	43	211059	75.156	ug/l	99
31) Cyclohexane	7.66	56	24465	1.721	ug/l #	42
37) Ethyl Acetate	6.93	43	58364	9.619	ug/l	97
39) Methylcyclohexane	9.08	83	41290	3.204	ug/l	96
40) Benzene	8.04	78	2753499	82.193	ug/l	100
51) 4-Methyl-2-Pentanone	9.99	43	25293	4.393	ug/l	98
52) Toluene	10.16	92	5031055	253.042	ug/l	99
67) Ethyl Benzene	11.51	91	6307463	157.363	ug/l	100
68) m/p-Xylenes	11.62	106	8278378	541.142	ug/l	98
69) o-Xylene	11.95	106	4710184	318.702	ug/l	99
73) Isopropylbenzene	12.25	105	926065	23.675	ug/l	99
78) n-propylbenzene	12.59	91	2807187	62.082	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	3304426	101.876	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	12874293	389.585	ug/l	98
85) sec-Butylbenzene	13.17	105	407543	10.447	ug/l	87
86) p-Isopropyltoluene	13.29	119	244441	7.164	ug/l	100
89) n-Butylbenzene	13.61	91	413167	13.991	ug/l #	71
95) Naphthalene	15.13	128	5299639	211.030	ug/l	100

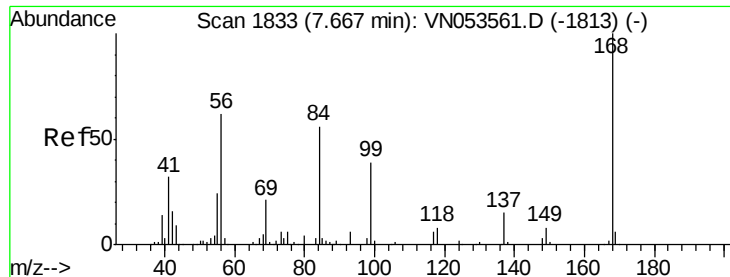
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053717.D

Acq: 11 Feb 2019 20:48

Instrument :

MSVOA_N

ClientSampleId :

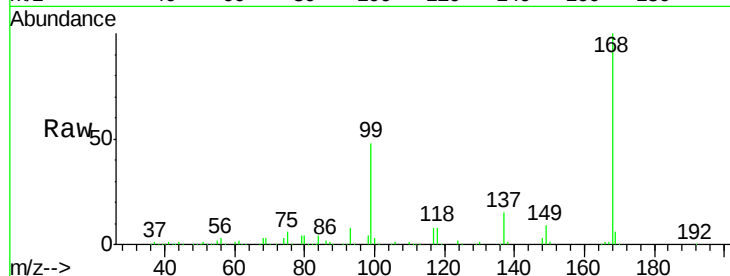
30228

Tot Ion:168 Resp: 765203

Ion Ratio Lower Upper

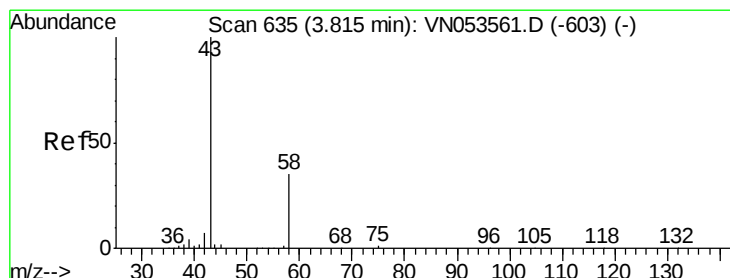
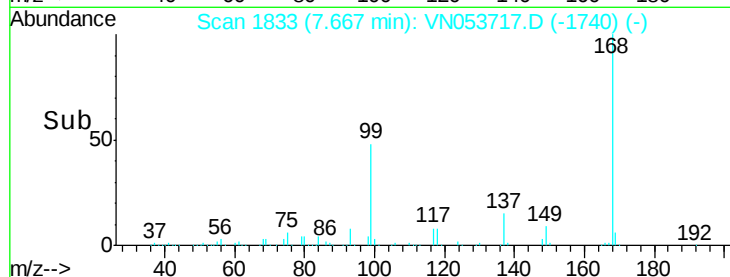
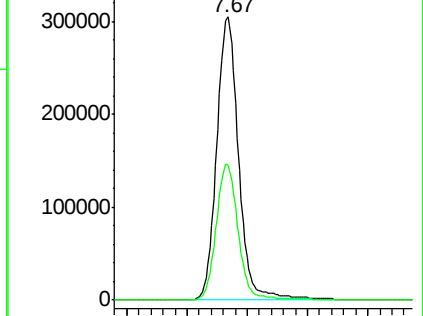
168 100

99 47.6 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 682.705 ug/l

RT: 3.81 min Scan# 634

Delta R.T. -0.00 min

Lab File: VN053717.D

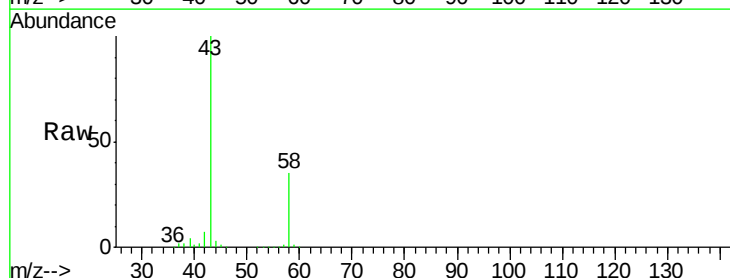
Acq: 11 Feb 2019 20:48

Tgt Ion: 43 Resp: 1344268

Ion Ratio Lower Upper

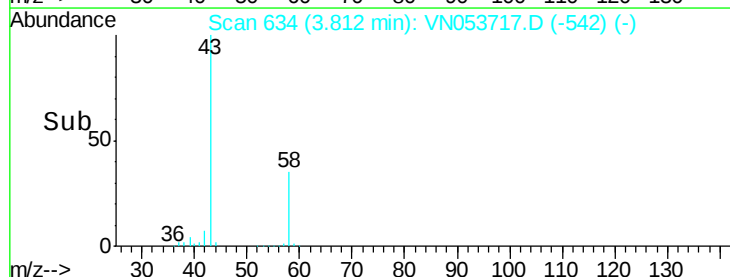
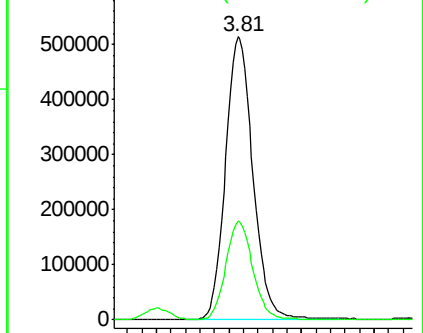
43 100

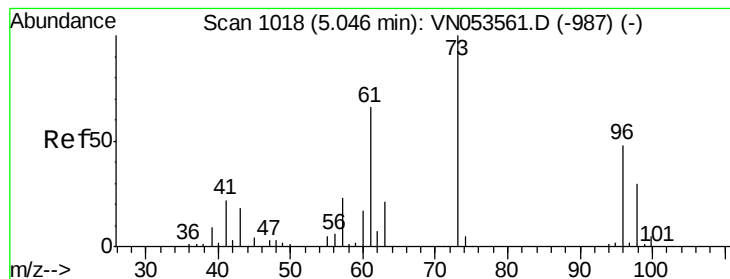
58 34.8 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO



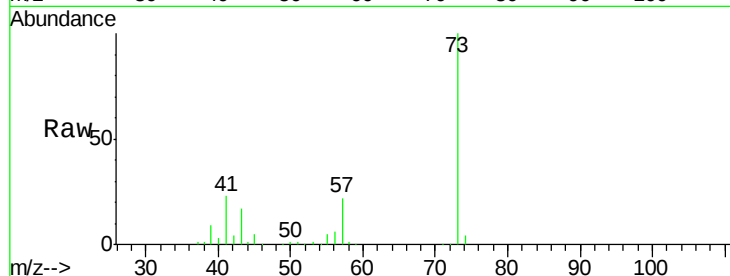


#19

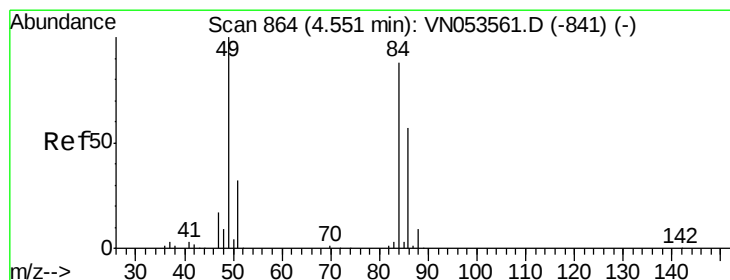
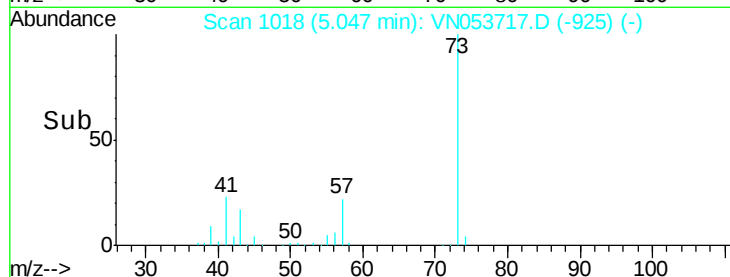
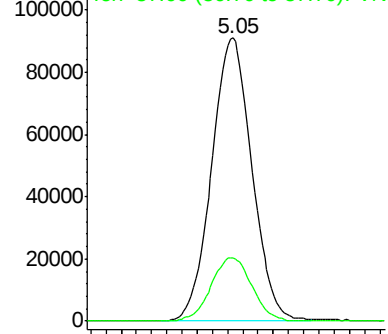
Methyl tert-butyl Ether
 Concen: 18.608 ug/l
 RT: 5.05 min Scan# 1018
 Delta R.T. 0.00 min
 Lab File: VN053717.D
 Acq: 11 Feb 2019 20:48

Instrument :
 MSVOA_N
 ClientSampled :
 30228

Tot Ion: 73 Resp: 334268
 Ion Ratio Lower Upper
 73 100
 57 22.2 18.3 27.5



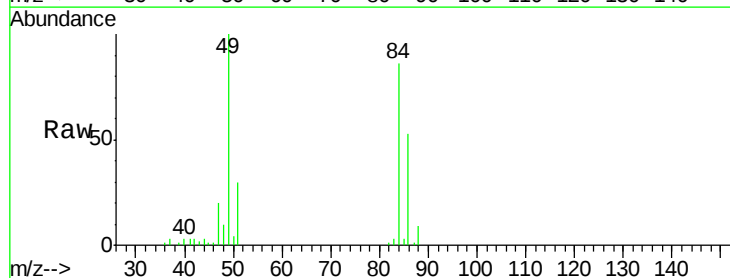
Abundance Ion 73.00 (72.70 to 73.70): VNO
 Ion 57.00 (56.70 to 57.70): VNO



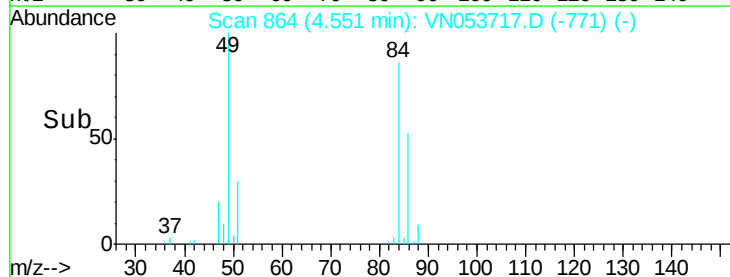
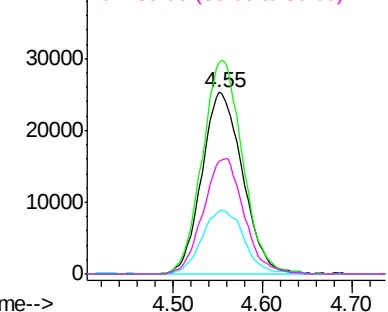
#20

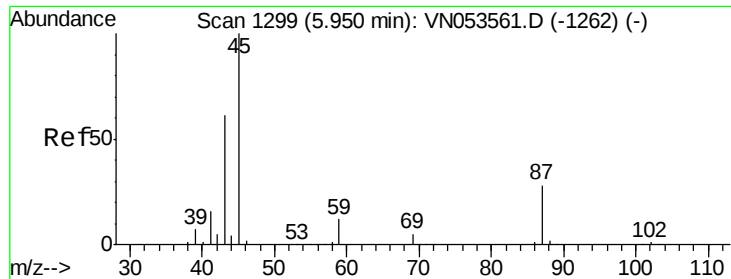
Methylene Chloride
 Concen: 9.714 ug/l
 RT: 4.55 min Scan# 864
 Delta R.T. 0.00 min
 Lab File: VN053717.D
 Acq: 11 Feb 2019 20:48

Tgt Ion: 84 Resp: 80243
 Ion Ratio Lower Upper
 84 100
 49 116.5 94.3 141.5
 51 34.4 29.4 44.2
 86 62.2 51.4 77.0



Abundance Ion 83.90 (83.60 to 84.60): VNO
 Ion 48.90 (48.60 to 49.60): VNO
 Ion 50.90 (50.60 to 51.60): VNO
 Ion 85.90 (85.60 to 86.60): VNO

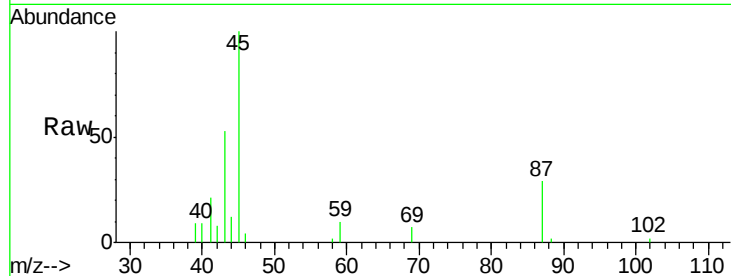




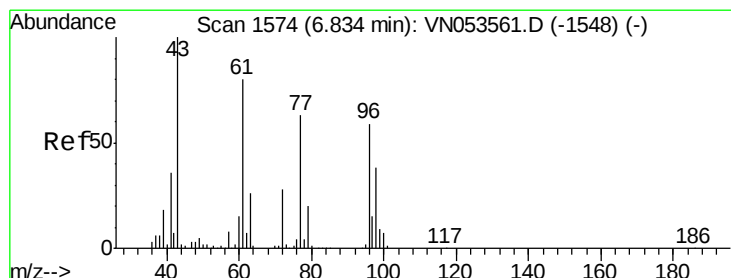
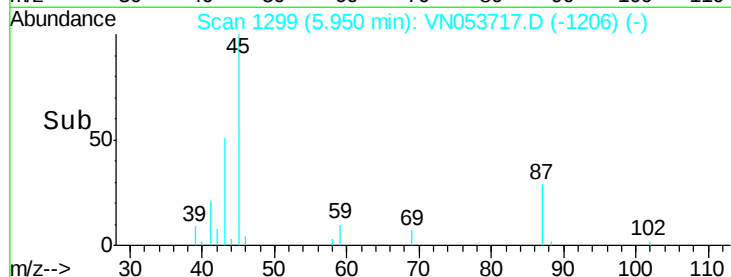
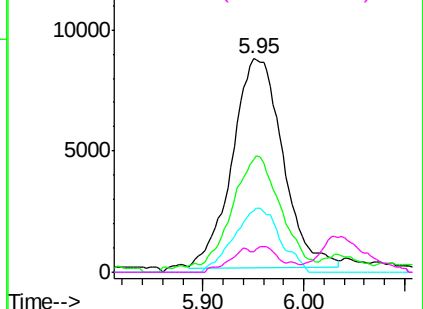
#22
Diisopropyl ether
Concen: 1.427 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. 0.00 min
Lab File: VN053717.D
Acq: 11 Feb 2019 20:48

Instrument :
MSVOA_N
ClientSampled :
30228

Tot Ion:	45	Resp:	29841
Ion	Ratio	Lower	Upper
45	100		
43	50.7	44.2	66.4
87	29.4	22.7	34.1
59	9.9	9.4	14.2

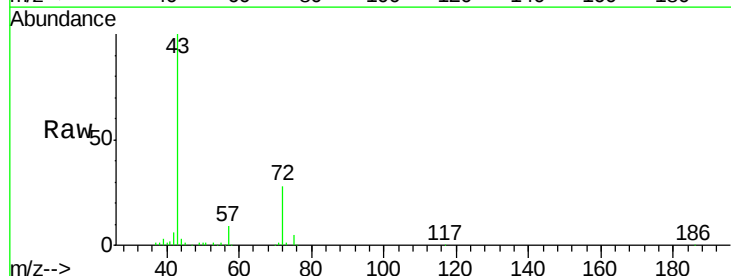


Abundance Ion 45.00 (44.70 to 45.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 87.00 (86.70 to 87.70): VN0
Ion 59.00 (58.70 to 59.70): VN0

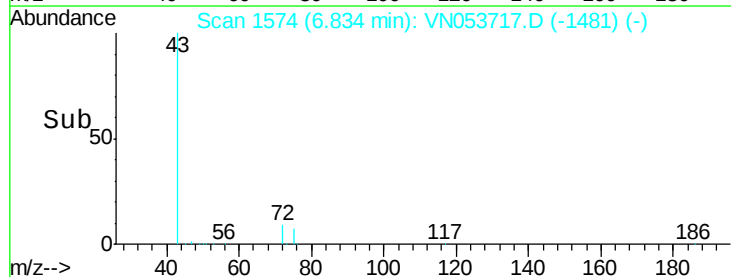
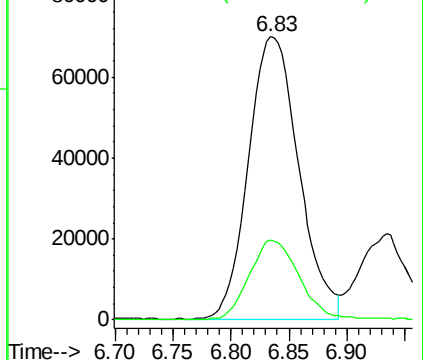


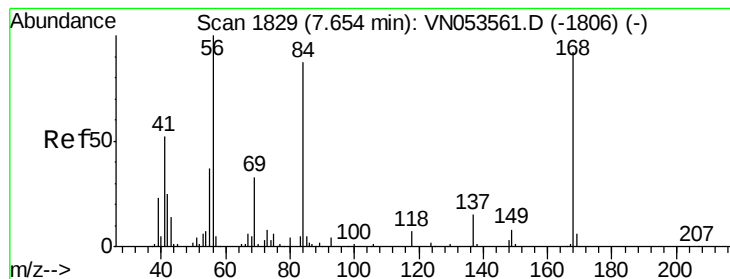
#25
2-Butanone
Concen: 75.156 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN053717.D
Acq: 11 Feb 2019 20:48

Tgt Ion:	43	Resp:	211059
Ion	Ratio	Lower	Upper
43	100		
72	28.3	22.0	33.0



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0





#31

Cyclohexane

Concen: 1.721 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN053717.D

Acq: 11 Feb 2019 20:48

Instrument :

MSVOA_N

ClientSampleId :

30228

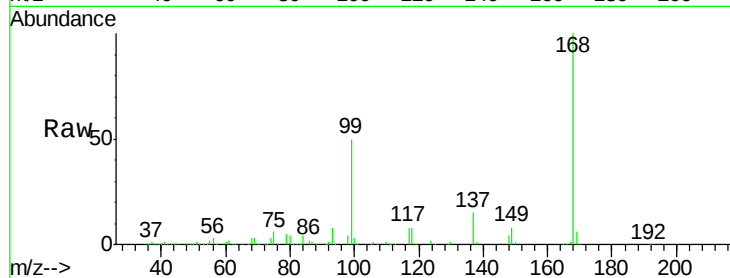
Tot Ion: 56 Resp: 24465

Ion Ratio Lower Upper

56 100

69 101.1 26.4 39.6#

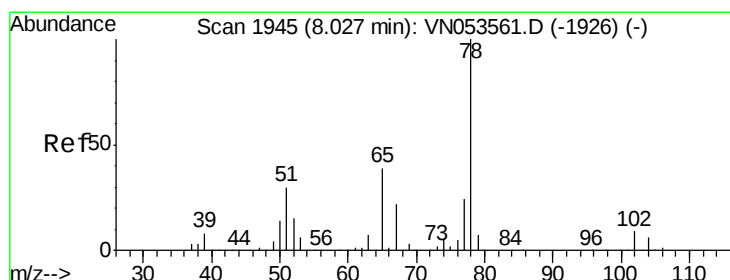
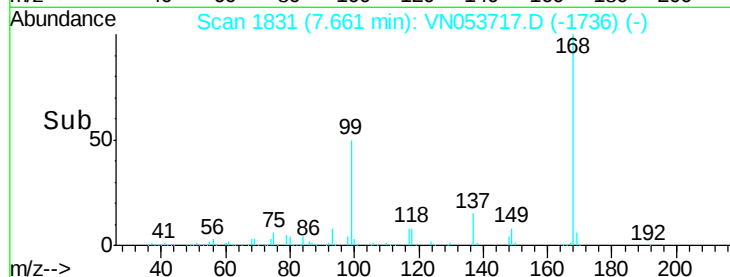
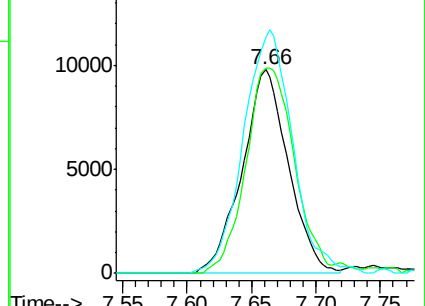
84 116.1 67.9 101.9#



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: 49.204 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053717.D

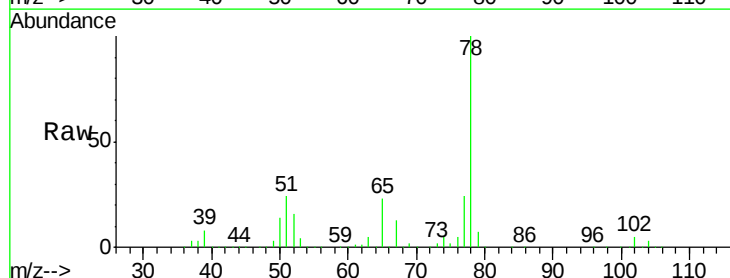
Acq: 11 Feb 2019 20:48

Tgt Ion: 65 Resp: 377713

Ion Ratio Lower Upper

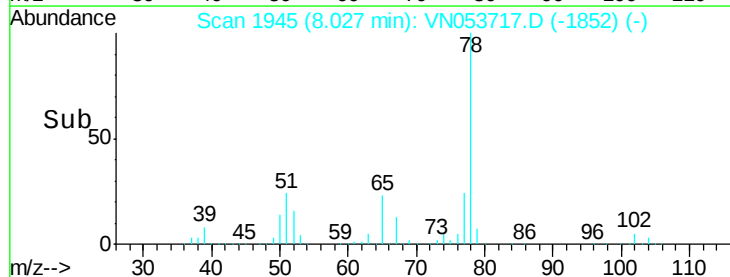
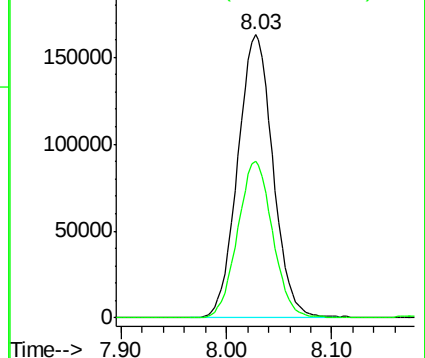
65 100

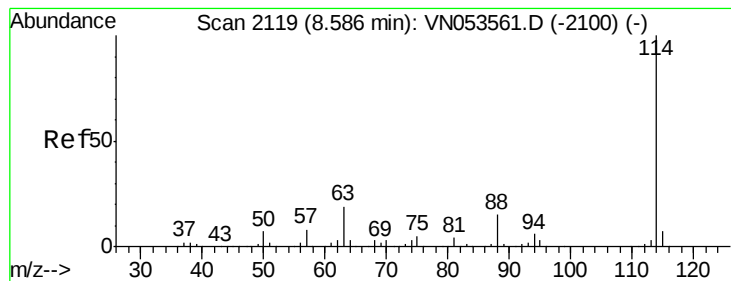
67 55.1 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053717.D

Acq: 11 Feb 2019 20:48

Instrument :

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ClientSampleId :

30228

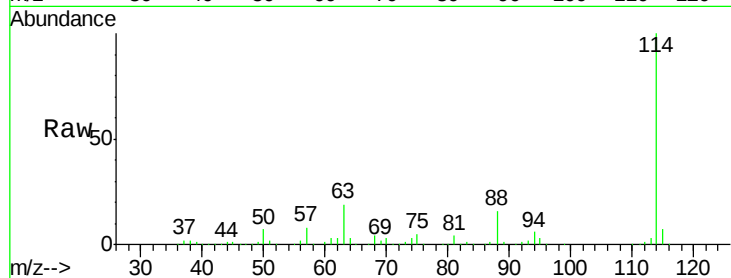
Tot Ion:114 Resp: 1205134

Ion Ratio Lower Upper

114 100

63 19.4 0.0 38.6

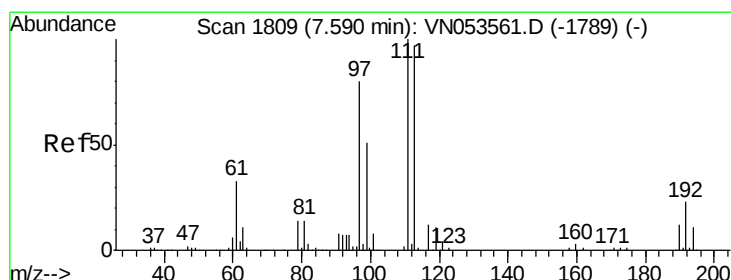
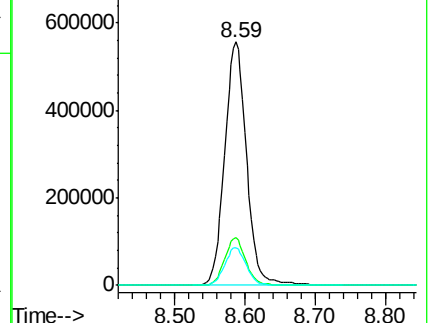
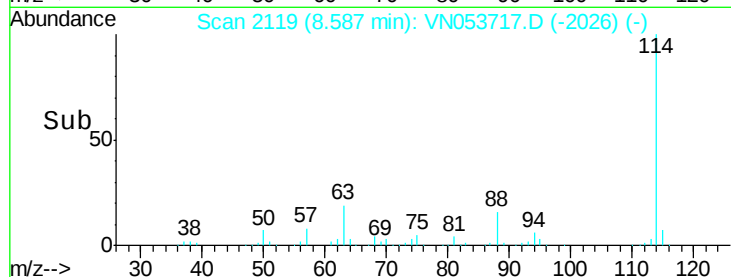
88 15.6 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 48.847 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN053717.D

Acq: 11 Feb 2019 20:48

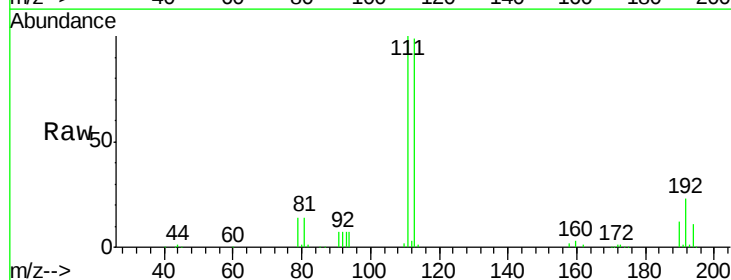
Tgt Ion:113 Resp: 371961

Ion Ratio Lower Upper

113 100

111 102.6 81.1 121.7

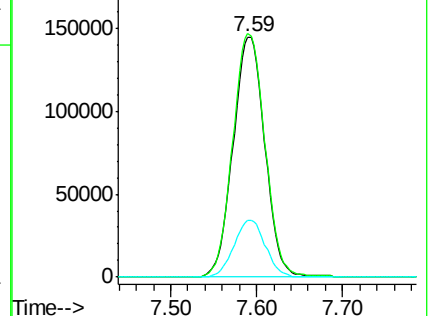
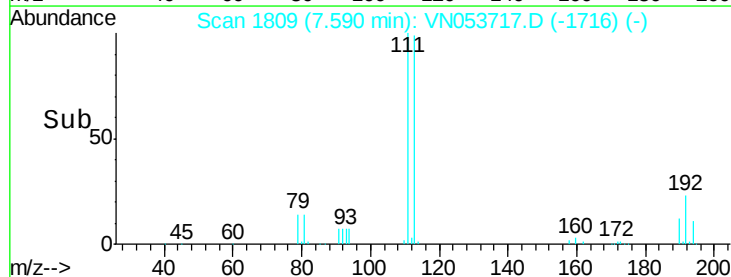
192 23.4 18.2 27.2

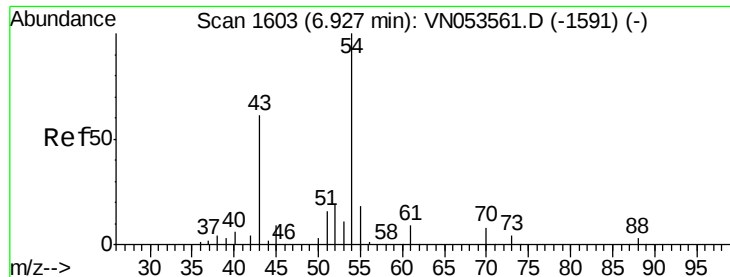


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

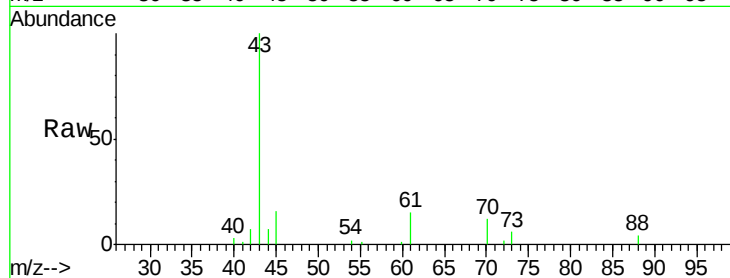




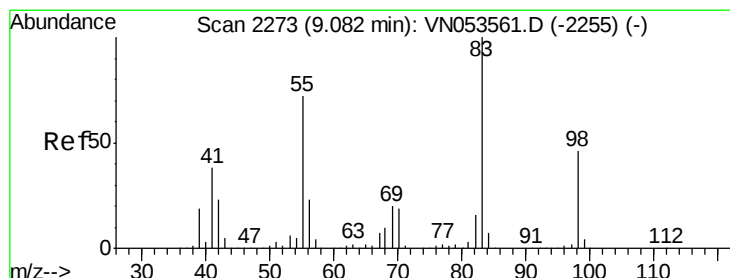
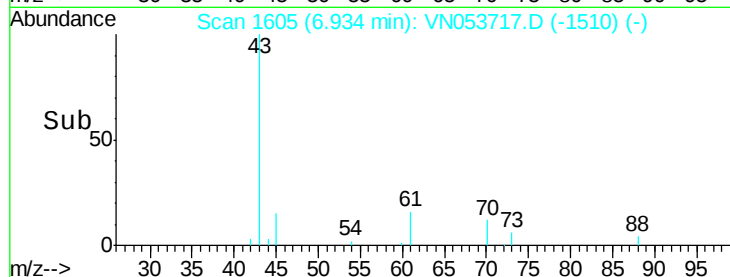
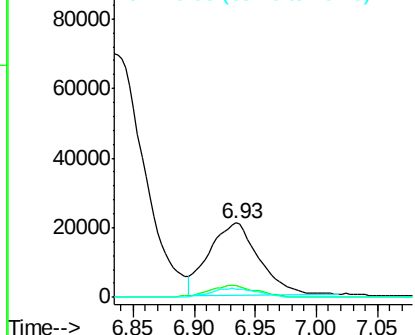
#37
Ethyl Acetate
Concen: 9.619 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.01 min
Lab File: VN053717.D
Acq: 11 Feb 2019 20:48

Instrument :
MSVOA_N
ClientSampleId :
30228

Tot Ion: 43 Resp: 58364
Ion Ratio Lower Upper
43 100
61 15.9 11.8 17.6
70 12.1 8.6 12.8

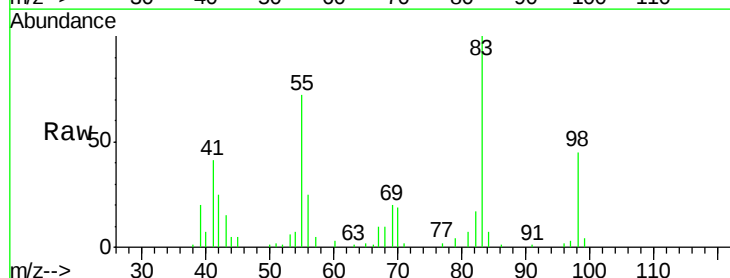


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

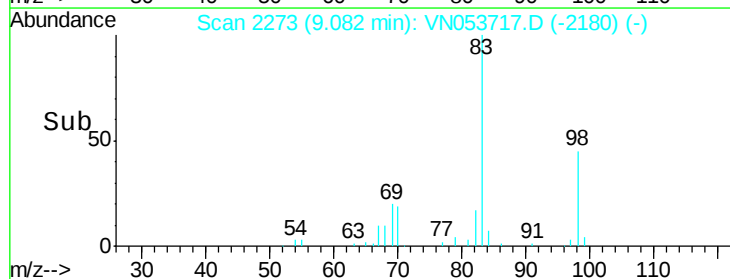
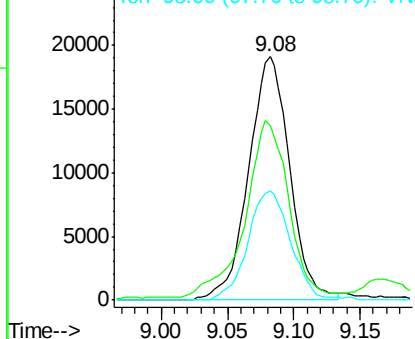


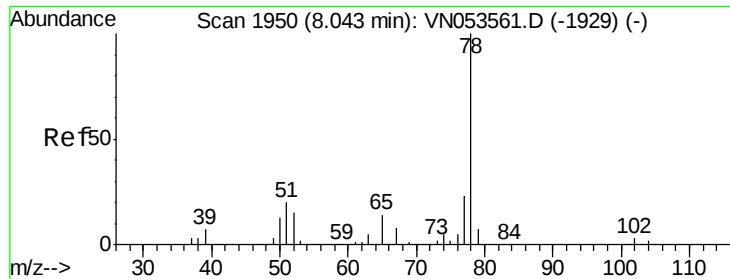
#39
Methylcyclohexane
Concen: 3.204 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053717.D
Acq: 11 Feb 2019 20:48

Tgt Ion: 83 Resp: 41290
Ion Ratio Lower Upper
83 100
55 69.6 60.1 90.1
98 45.0 36.6 55.0



Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0





#40

Benzene

Concen: 82.193 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. 0.00 min

Lab File: VN053717.D

Acq: 11 Feb 2019 20:48

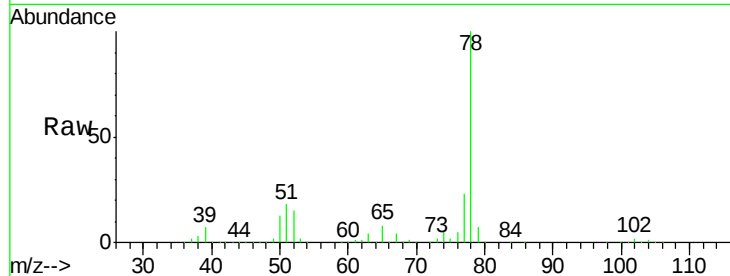
Instrument :
MSVOA_N
ClientSampled :
30228

Tot Ion: 78 Resp: 2753499

Ion Ratio Lower Upper

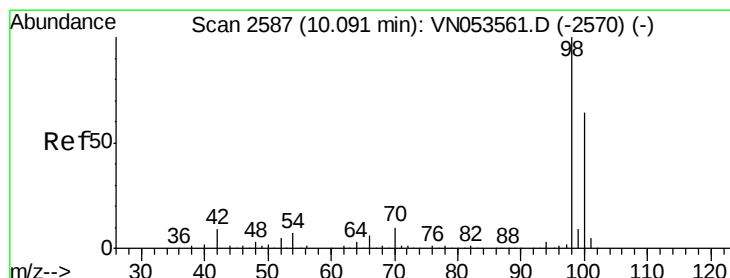
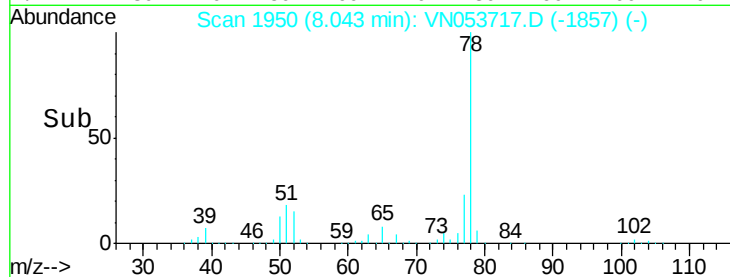
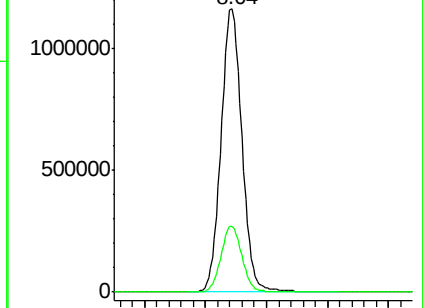
78 100

77 23.5 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#50

Toluene-d8

Concen: 52.058 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053717.D

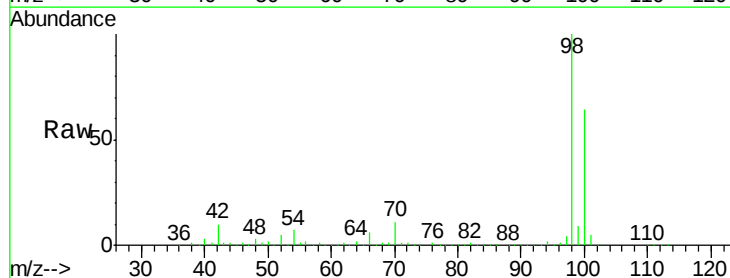
Acq: 11 Feb 2019 20:48

Tgt Ion: 98 Resp: 1488451

Ion Ratio Lower Upper

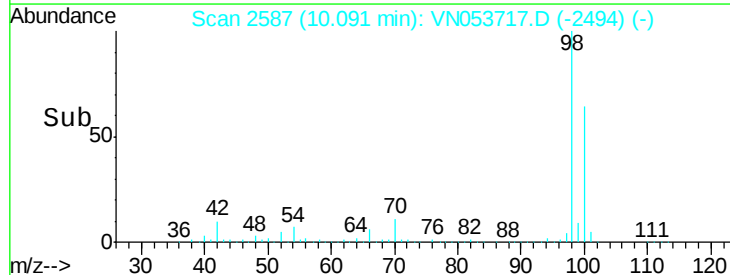
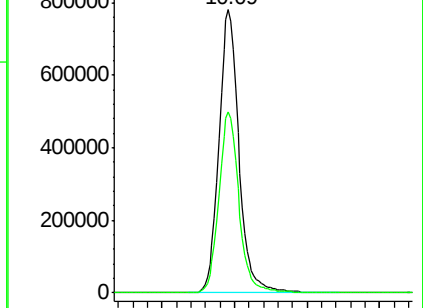
98 100

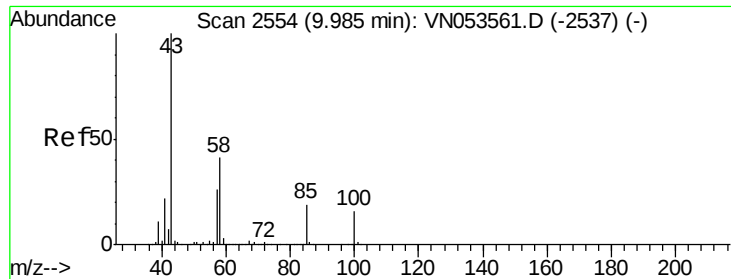
100 64.3 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

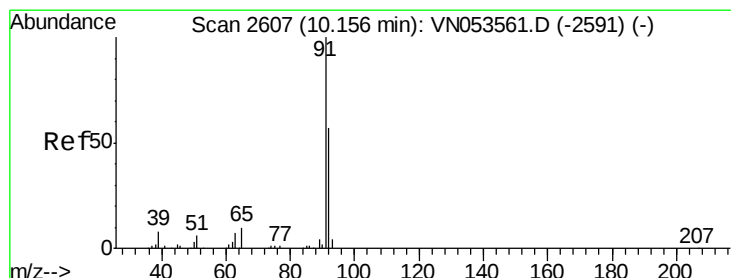
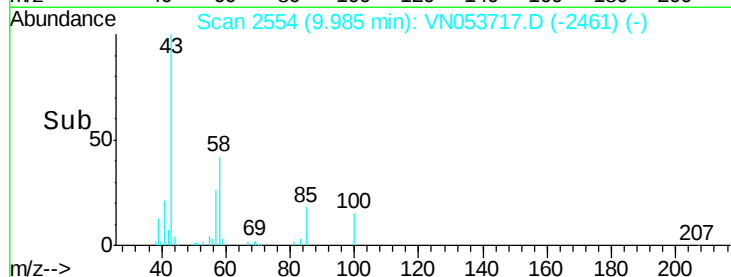
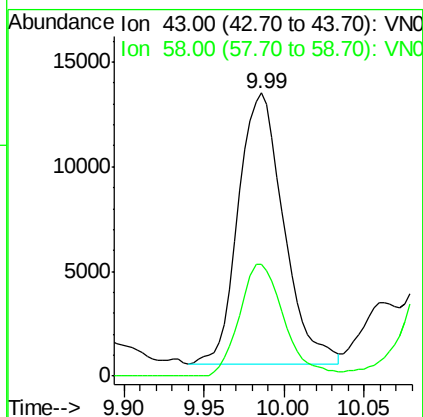
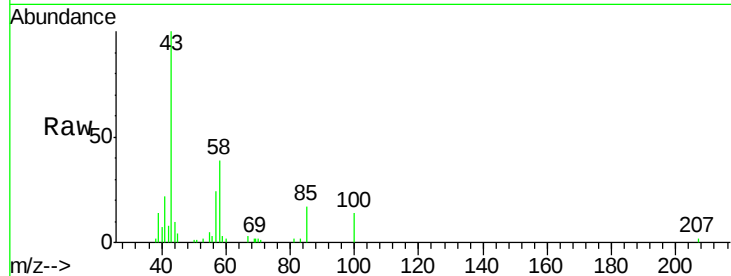




#51
 4-Methyl-2-Pentanone
 Concen: 4.393 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN053717.D
 Acq: 11 Feb 2019 20:48

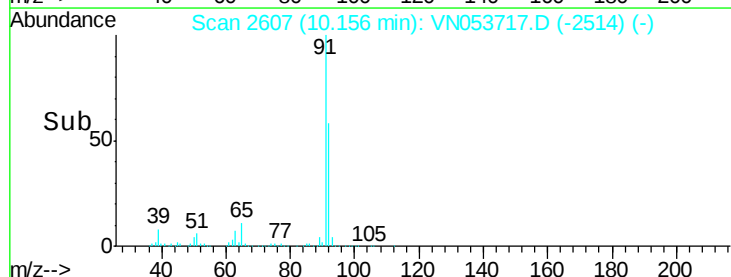
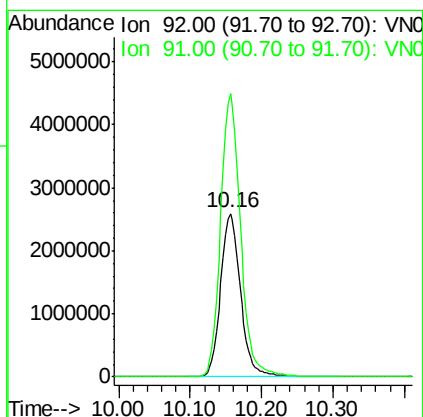
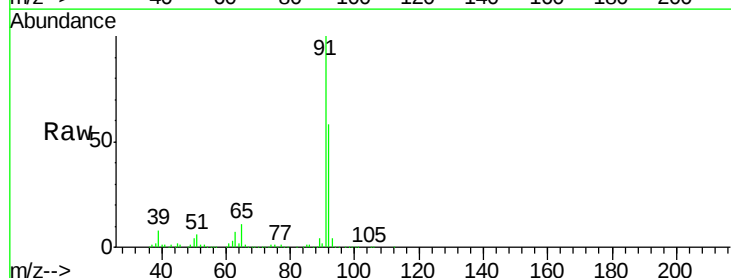
Instrument :
 MSVOA_N
 ClientSampleID :
 30228

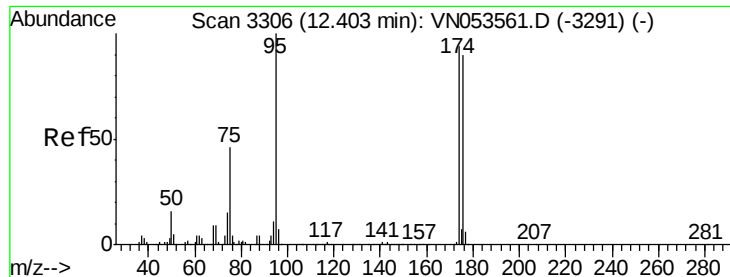
Tot Ion: 43 Resp: 25293
 Ion Ratio Lower Upper
 43 100
 58 40.1 32.8 49.2



#52
 Toluene
 Concen: 253.042 ug/l
 RT: 10.16 min Scan# 2607
 Delta R.T. 0.00 min
 Lab File: VN053717.D
 Acq: 11 Feb 2019 20:48

Tgt Ion: 92 Resp: 5031055
 Ion Ratio Lower Upper
 92 100
 91 173.8 139.9 209.9





#62

4-Bromofluorobenzene

Concen: 55.524 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053717.D

Acq: 11 Feb 2019 20:48

Instrument :

MSVOA_N

ClientSampled :

30228

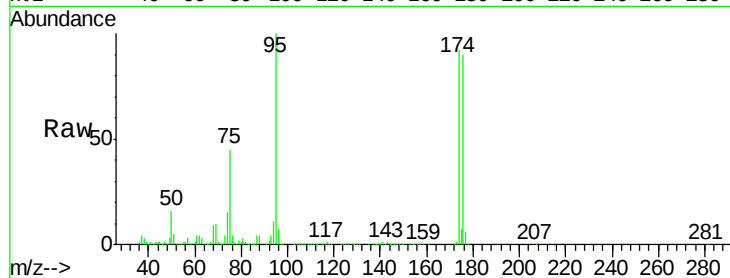
Tot Ion: 95 Resp: 529479

Ion Ratio Lower Upper

95 100

174 93.7 0.0 183.2

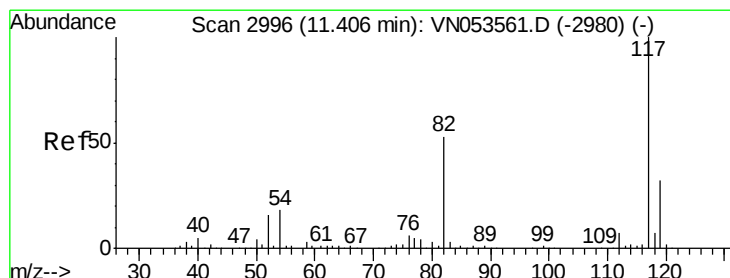
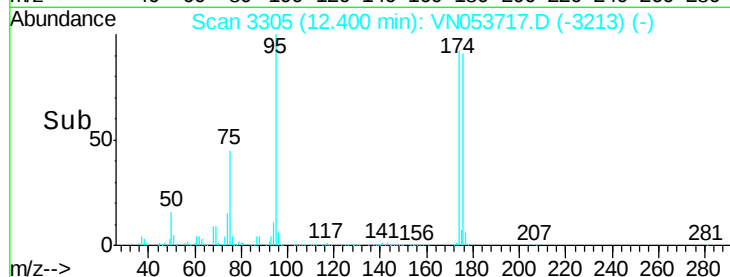
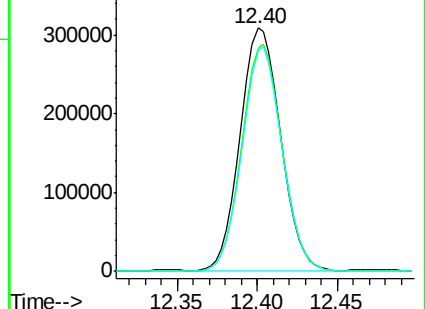
176 91.3 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053717.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN053717.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN053717.D (-3213) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053717.D

Acq: 11 Feb 2019 20:48

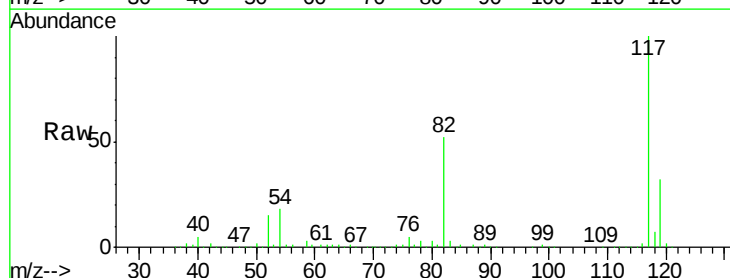
Tgt Ion: 117 Resp: 1148738

Ion Ratio Lower Upper

117 100

82 52.3 42.9 64.3

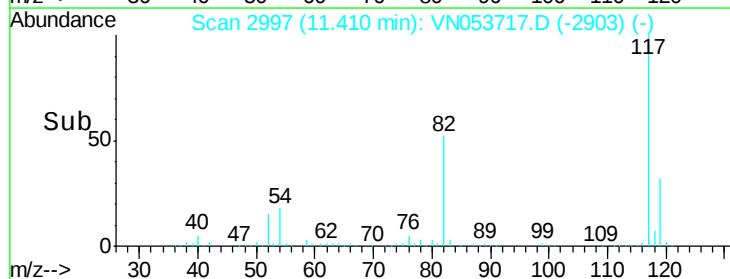
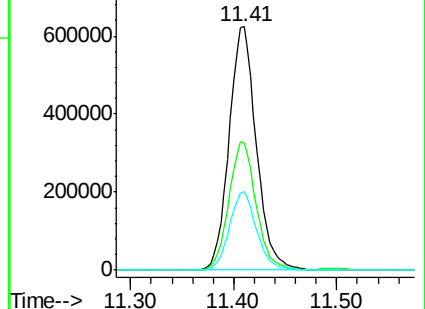
119 32.0 26.0 39.0

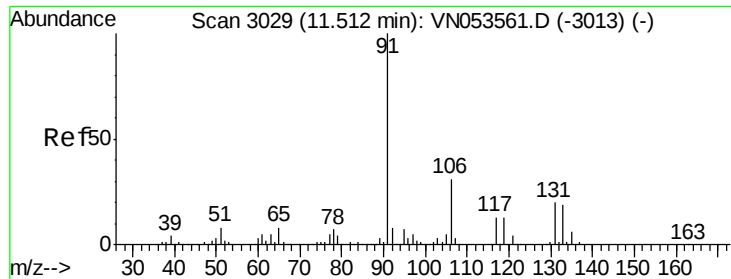


Abundance Ion 116.90 (116.60 to 117.60): VN053717.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN053717.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN053717.D (-2903) (-)

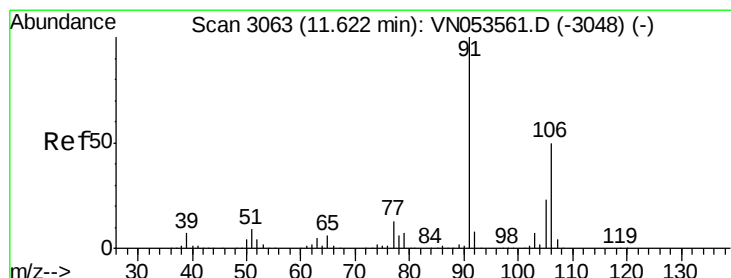
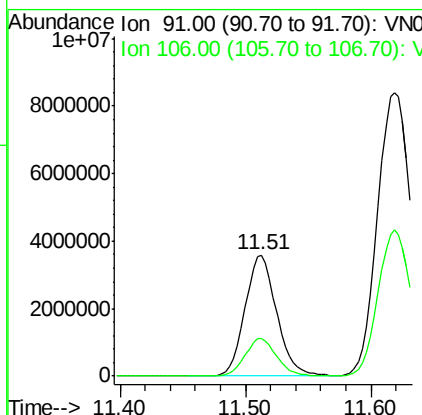
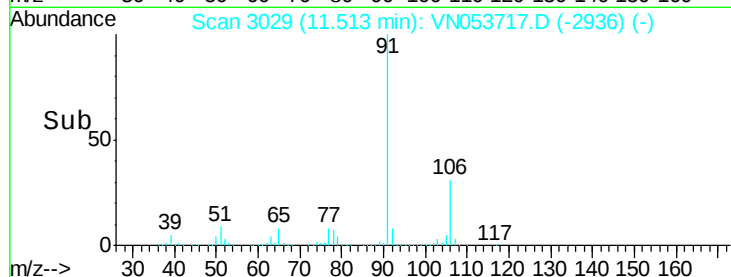
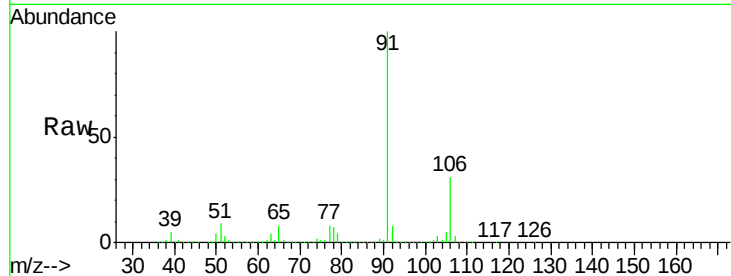




#67
Ethyl Benzene
Concen: 157.363 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053717.D
Acq: 11 Feb 2019 20:48

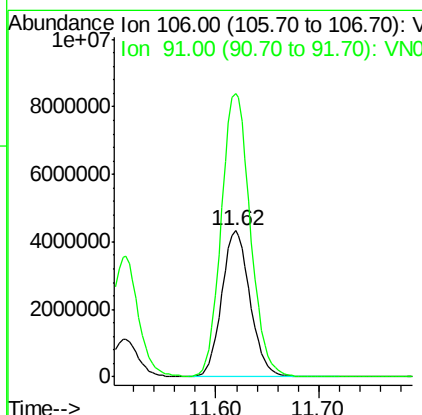
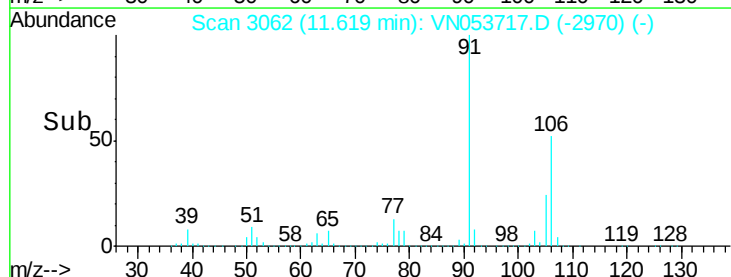
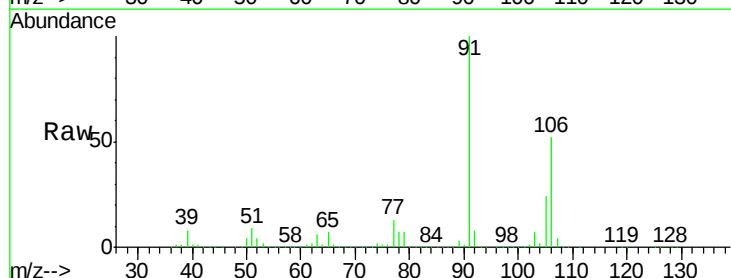
Instrument :
MSVOA_N
ClientSampled :
30228

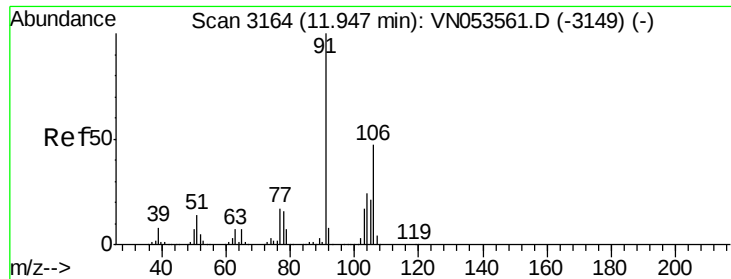
Tot Ion: 91 Resp: 6307463
Ion Ratio Lower Upper
91 100
106 31.4 25.0 37.6



#68
m/p-Xylenes
Concen: 541.142 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN053717.D
Acq: 11 Feb 2019 20:48

Tgt Ion: 106 Resp: 8278378
Ion Ratio Lower Upper
106 100
91 198.8 161.4 242.2

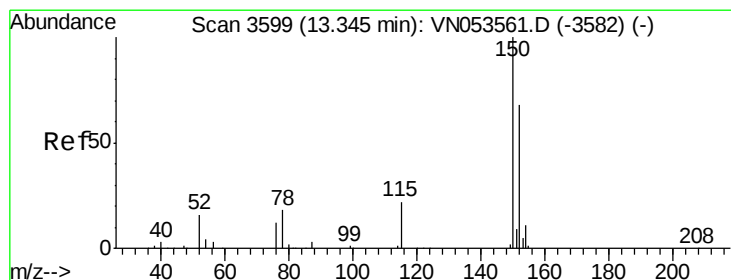
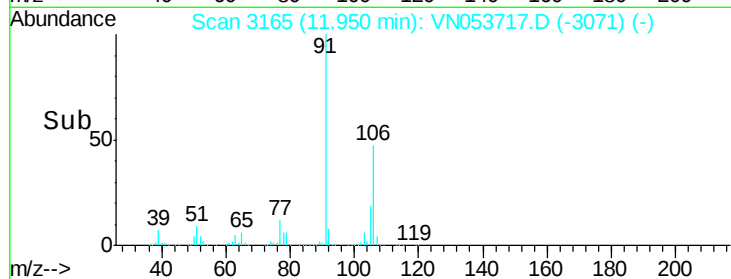
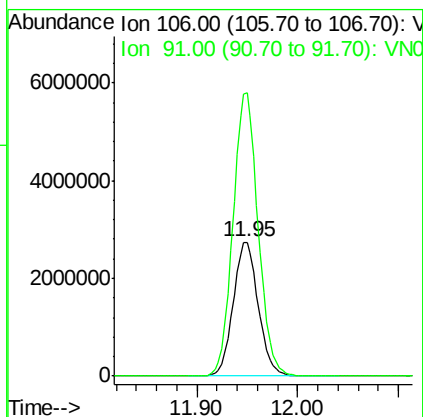
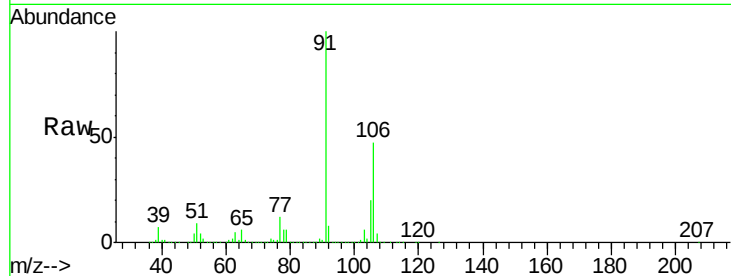




#69
o-Xylene
Concen: 318.702 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN053717.D
Acq: 11 Feb 2019 20:48

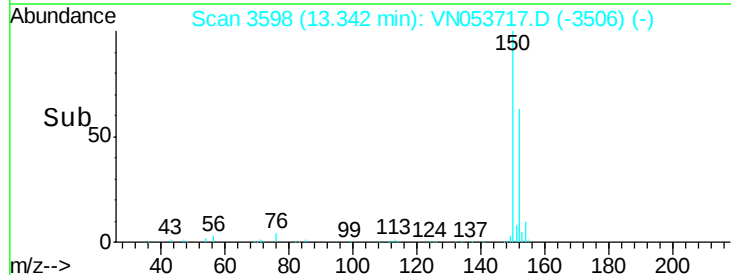
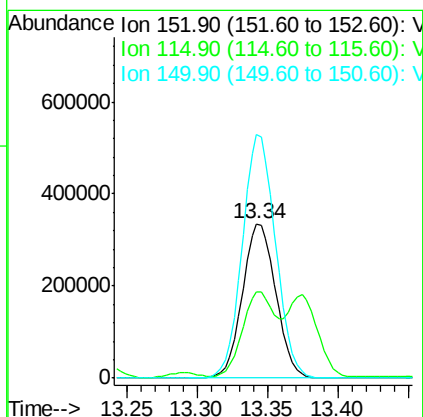
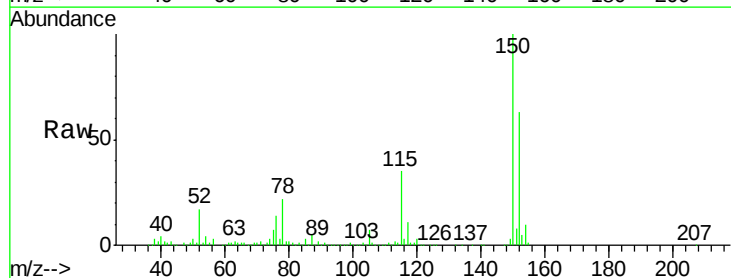
Instrument :
MSVOA_N
ClientSampleId :
30228

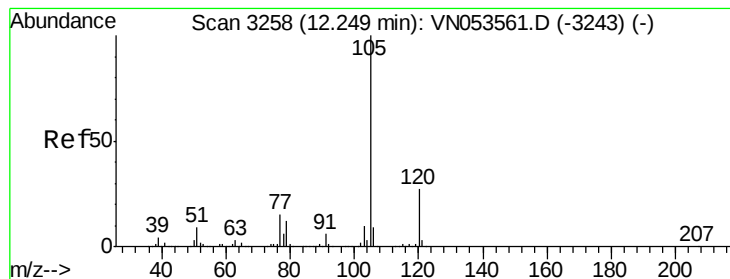
Tot Ion:106 Resp: 4710184
Ion Ratio Lower Upper
106 100
91 212.1 106.9 320.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN053717.D
Acq: 11 Feb 2019 20:48

Tgt Ion:152 Resp: 556412
Ion Ratio Lower Upper
152 100
115 53.0 27.8 83.4
150 156.9 0.0 349.0





#73

Isopropylbenzene

Concen: 23.675 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053717.D

Acq: 11 Feb 2019 20:48

Instrument :

MSVOA_N

ClientSampleId :

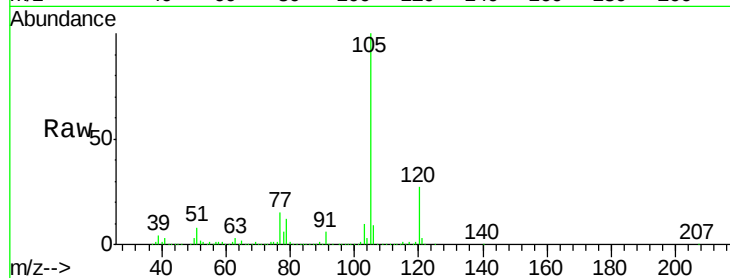
30228

Tot Ion:105 Resp: 926065

Ion Ratio Lower Upper

105 100

120 26.7 13.6 40.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

600000

500000

400000

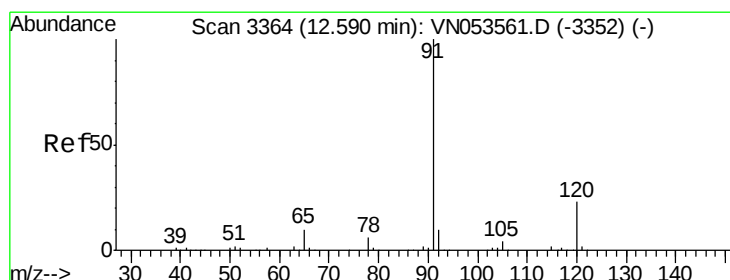
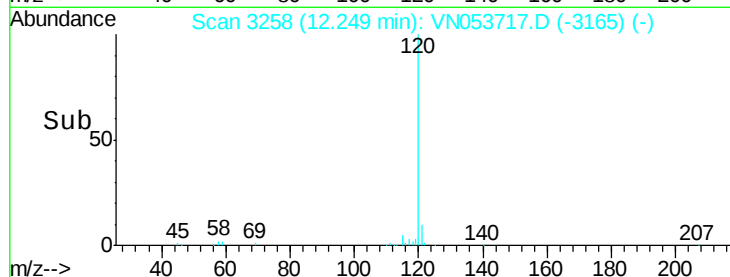
300000

200000

100000

0

Time-->



#78

n-propylbenzene

Concen: 62.082 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN053717.D

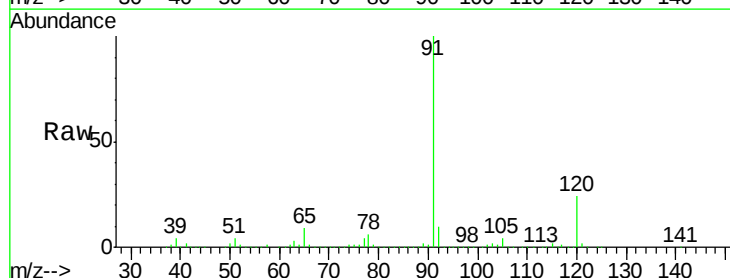
Acq: 11 Feb 2019 20:48

Tgt Ion: 91 Resp: 2807187

Ion Ratio Lower Upper

91 100

120 23.6 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V

12.59

2000000

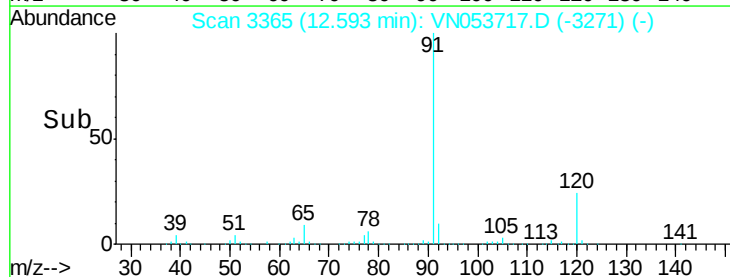
1500000

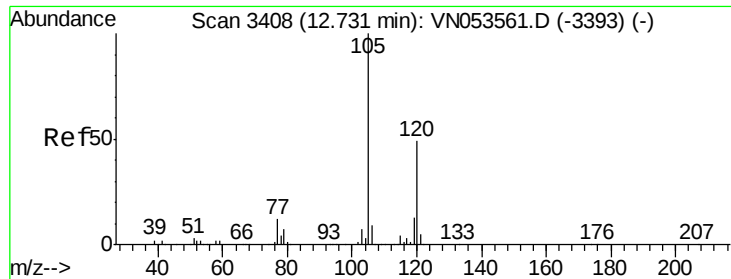
1000000

500000

0

Time-->

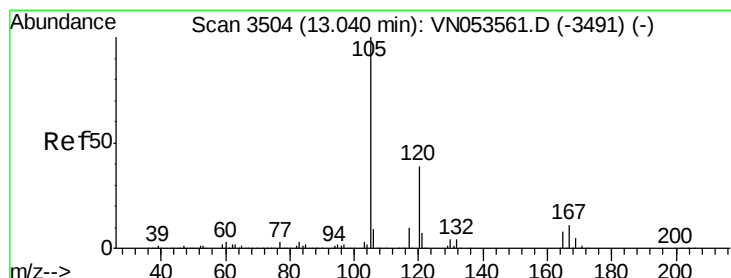
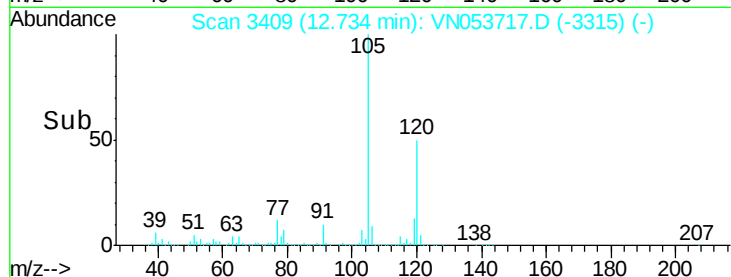
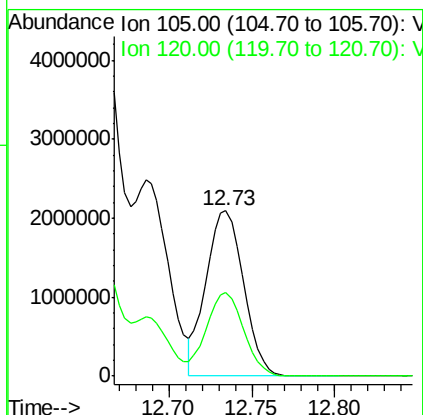
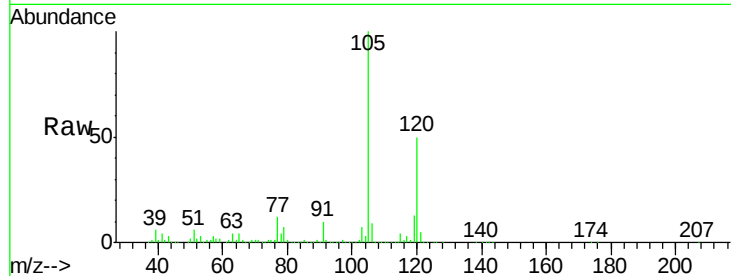




#80
 1,3,5-Trimethylbenzene
 Concen: 101.876 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN053717.D
 Acq: 11 Feb 2019 20:48

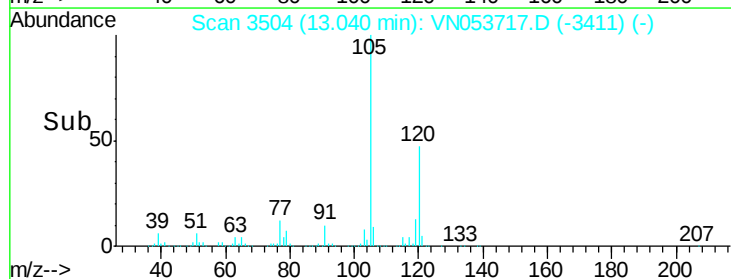
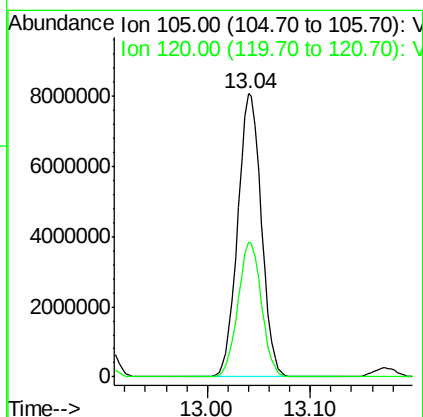
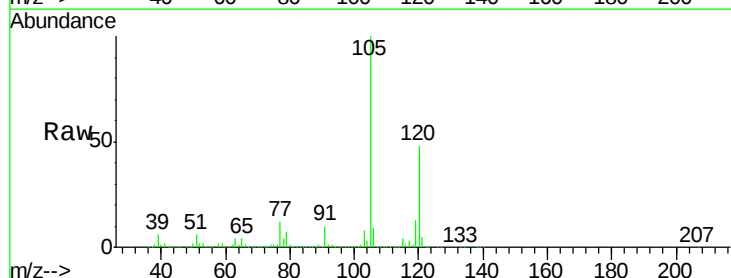
Instrument :
 MSVOA_N
 ClientSampled :
 30228

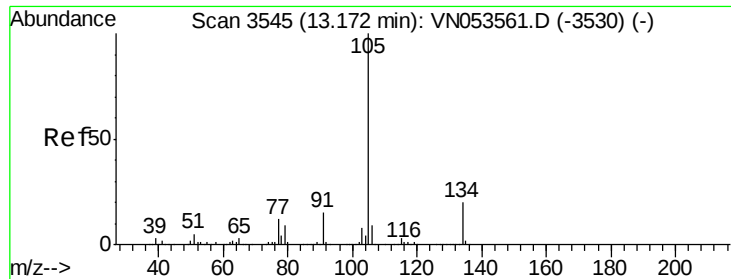
Tot Ion:105 Resp: 3304426
 Ion Ratio Lower Upper
 105 100
 120 51.0 24.9 74.6



#84
 1,2,4-Trimethylbenzene
 Concen: 389.585 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN053717.D
 Acq: 11 Feb 2019 20:48

Tgt Ion:105 Resp:12874293
 Ion Ratio Lower Upper
 105 100
 120 47.3 23.0 69.0





#85

sec-Butylbenzene

Concen: 10.447 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053717.D

Acq: 11 Feb 2019 20:48

Instrument :

MSVOA_N

ClientSampled :

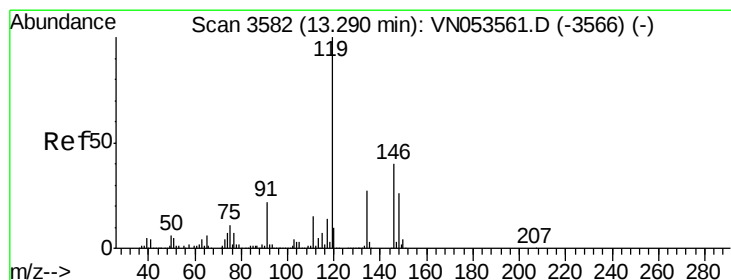
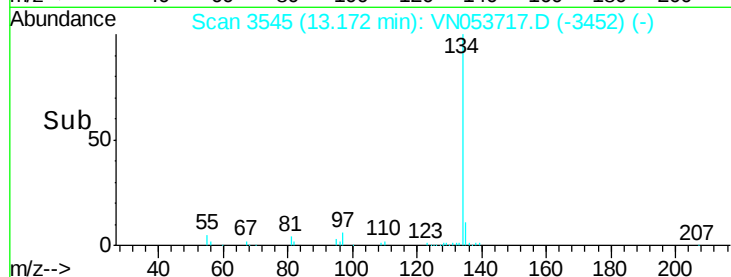
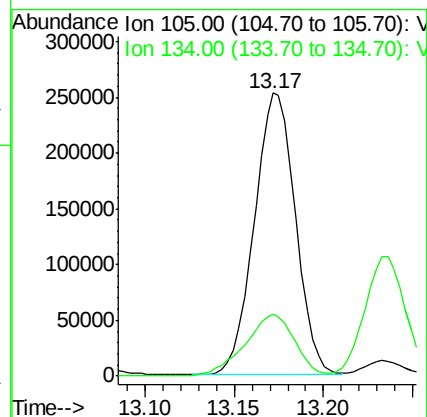
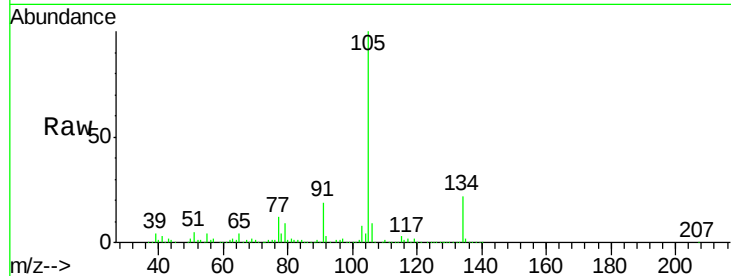
30228

Tot Ion:105 Resp: 407543

Ion Ratio Lower Upper

105 100

134 26.5 10.2 30.6



#86

p-Isopropyltoluene

Concen: 7.164 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053717.D

Acq: 11 Feb 2019 20:48

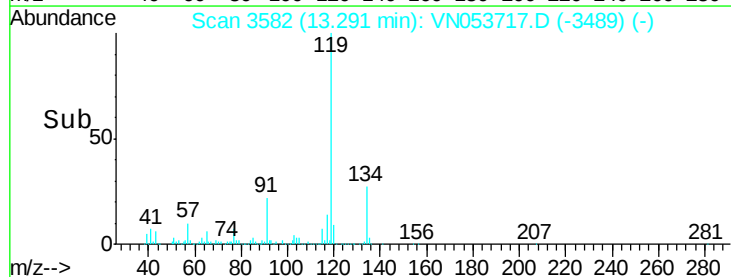
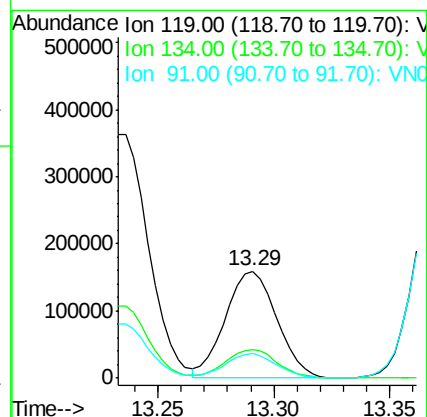
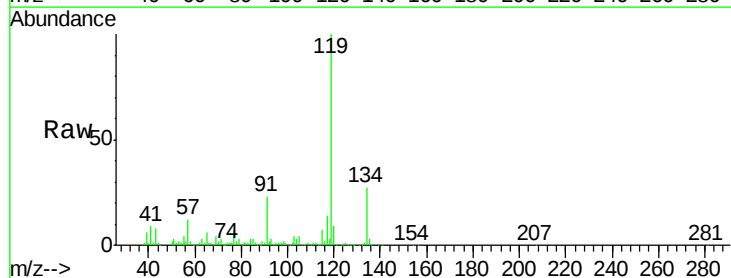
Tgt Ion:119 Resp: 244441

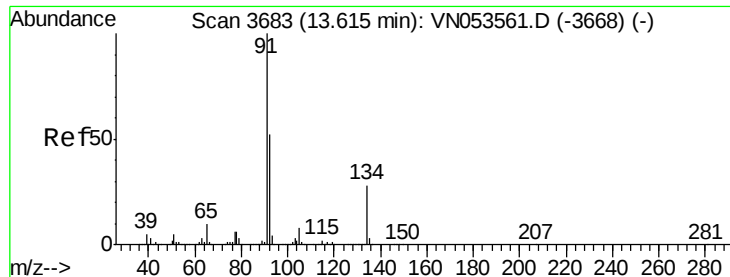
Ion Ratio Lower Upper

119 100

134 27.0 13.5 40.4

91 21.8 11.0 33.0

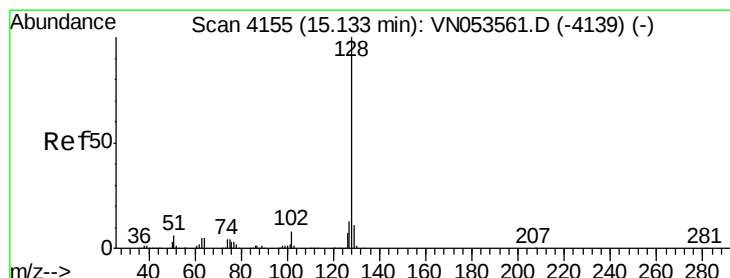
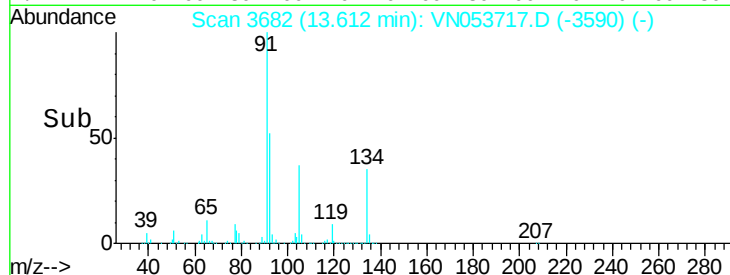
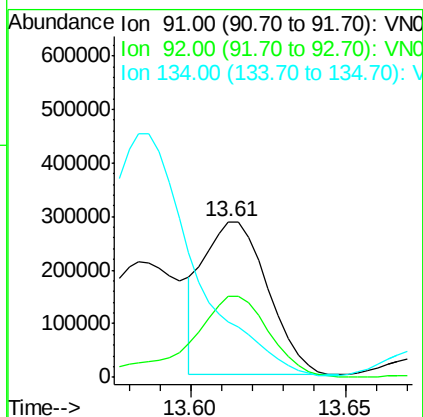
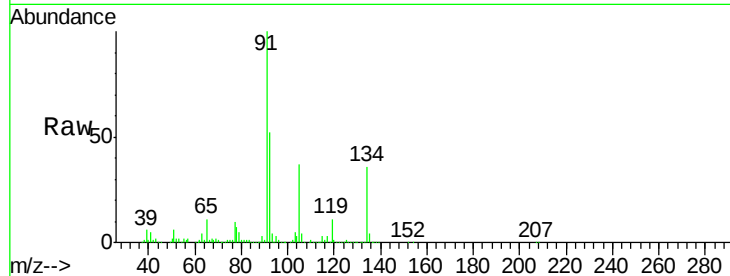




#89
n-Butylbenzene
Concen: 13.991 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN053717.D
Acq: 11 Feb 2019 20:48

Instrument :
MSVOA_N
ClientSampled :
30228

Tot Ion: 91 Resp: 413167
Ion Ratio Lower Upper
91 100
92 64.9 26.3 78.8
134 0.0 13.5 40.5#



#95
Naphthalene
Concen: 211.030 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN053717.D
Acq: 11 Feb 2019 20:48

Tgt Ion: 128 Resp: 5299639
Ion Ratio Lower Upper
128 100
127 12.7 10.3 15.5
129 10.9 8.6 13.0

