

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031419\
 Data File : VN054298.D
 Acq On : 15 Mar 2019 8:40
 Operator : JC/SP
 Sample : K1902-03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30298

Quant Time: Mar 15 18:11:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1482087	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	2433446	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2639002	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	1303112	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	739587	46.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.98%	
35) Dibromofluoromethane	7.59	113	730199	46.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.06%	
50) Toluene-d8	10.09	98	3103116	53.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.08%	
62) 4-Bromofluorobenzene	12.40	95	1260451	62.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	124.30%	

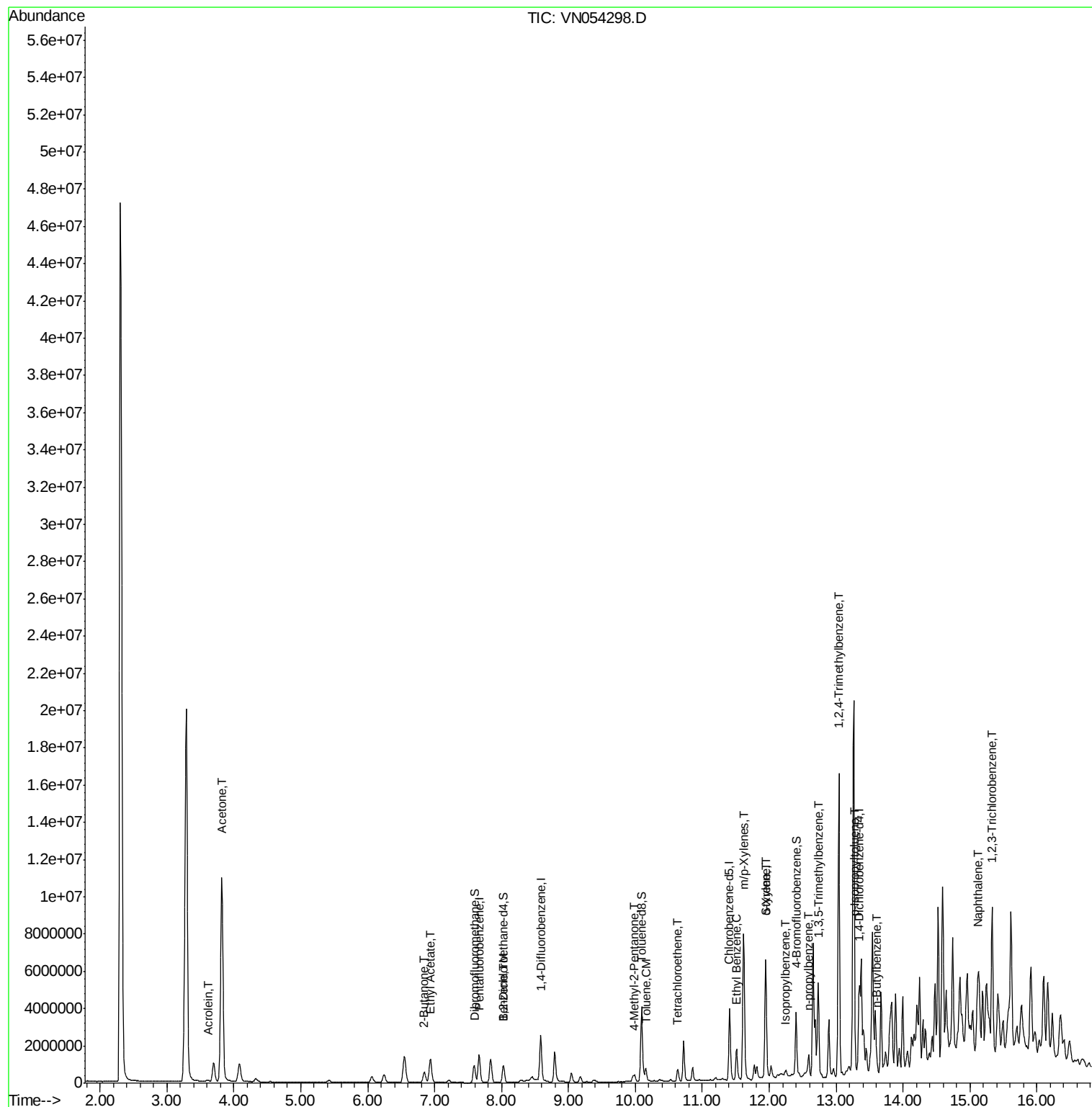
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	91441	89.431	ug/l	99
16) Acetone	3.82	43	17524045	3888.471	ug/l	99
25) 2-Butanone	6.84	43	968811	183.159	ug/l	99
37) Ethyl Acetate	6.94	43	2087798	162.140	ug/l	96
40) Benzene	8.04	78	15399	0.240	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	324613	27.139	ug/l #	72
52) Toluene	10.16	92	307630	7.566	ug/l	100
64) Tetrachloroethene	10.63	164	127217	4.986	ug/l	98
67) Ethyl Benzene	11.51	91	1328240	13.828	ug/l	100
68) m/p-Xylenes	11.62	106	2740340	72.993	ug/l	99
69) o-Xylene	11.95	106	1797138	49.105	ug/l	99
70) Styrene	11.95	104	90139	1.570	ug/l #	1
73) Isopropylbenzene	12.25	105	212118	2.035	ug/l	99
78) n-propylbenzene	12.59	91	932295	8.241	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	2291534	26.424	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	9981069	117.319	ug/l	100
86) p-Isopropyltoluene	13.29	119	163743	1.803	ug/l	99
89) n-Butylbenzene	13.61	91	297757	4.315	ug/l #	68
95) Naphthalene	15.13	128	2989979	52.153	ug/l	98
96) 1,2,3-Trichlorobenzene	15.34	180	22036	0.913	ug/l #	1

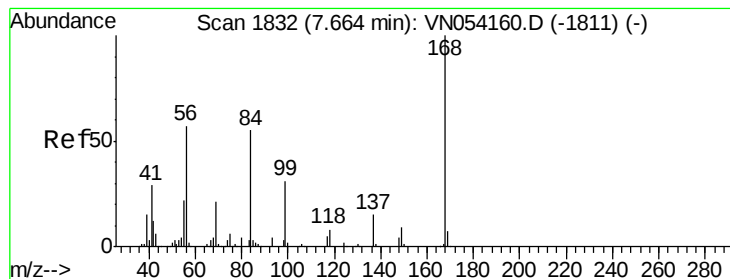
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN054298.D

Acq: 15 Mar 2019 8:40

Instrument :

MSVOA_N

ClientSampleId :

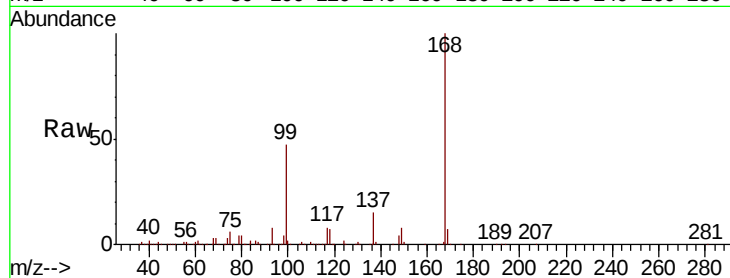
30298

Tgt Ion:168 Resp: 1482087

Ion Ratio Lower Upper

168 100

99 46.6 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

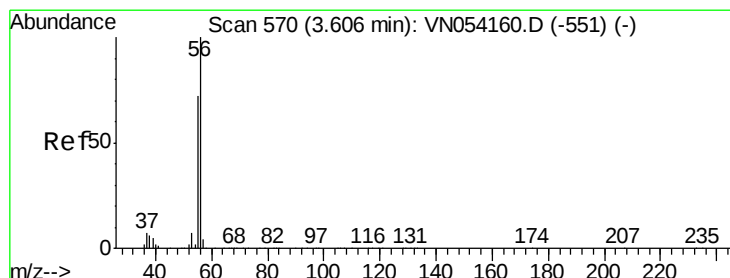
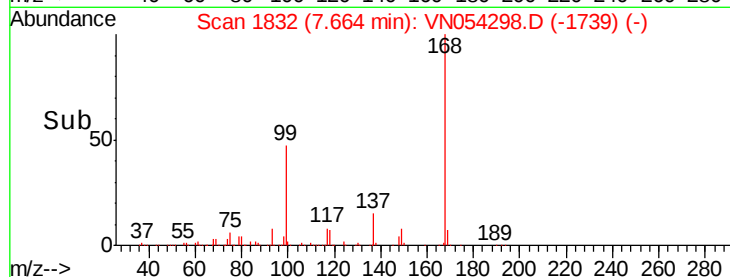
600000

400000

200000

0

Time-->



#13

Acrolein

Concen: 89.431 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN054298.D

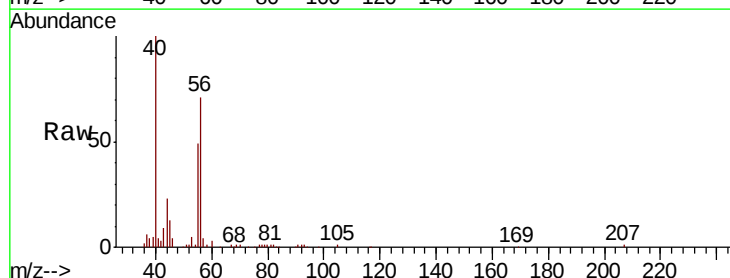
Acq: 15 Mar 2019 8:40

Tgt Ion: 56 Resp: 91441

Ion Ratio Lower Upper

56 100

55 70.0 56.7 85.1



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

3.60

40000

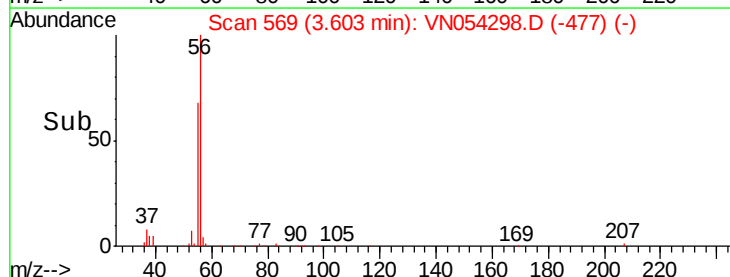
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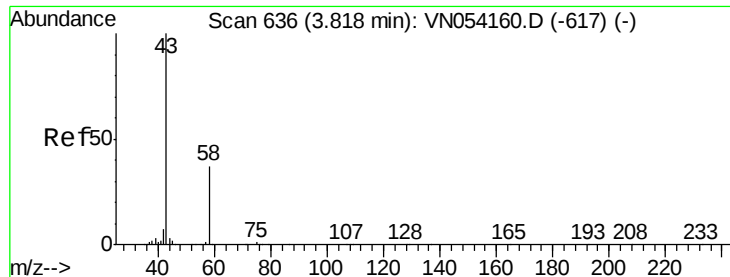
20000

10000

0

Time-->





#16

Acetone

Concen: 3888.471 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN054298.D

Acq: 15 Mar 2019 8:40

Instrument :

MSVOA_N

ClientSampleId :

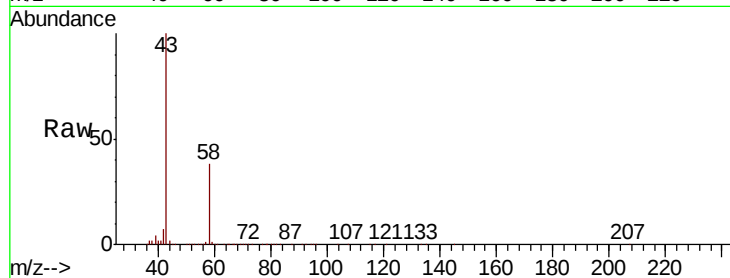
30298

Tgt Ion: 43 Resp:17524045

Ion Ratio Lower Upper

43 100

58 38.3 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN054160.D (-617) (-)

Ion 58.00 (57.70 to 58.70): VN054160.D (-617) (-)

8000000

6000000

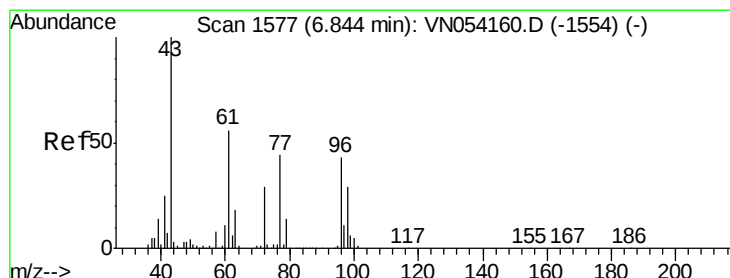
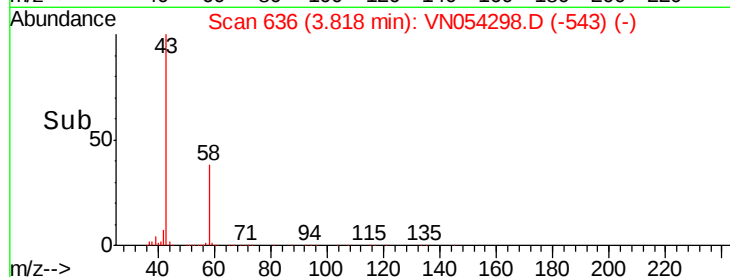
4000000

2000000

0

3.70 3.80 3.90 4.00

Time-->



#25

2-Butanone

Concen: 183.159 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.00 min

Lab File: VN054298.D

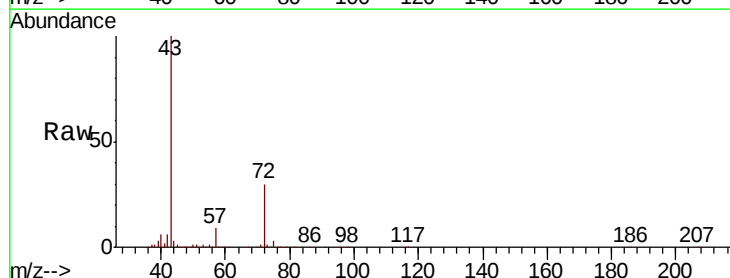
Acq: 15 Mar 2019 8:40

Tgt Ion: 43 Resp: 968811

Ion Ratio Lower Upper

43 100

72 29.5 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VN054160.D (-1554) (-)

Ion 72.00 (71.70 to 72.70): VN054160.D (-1554) (-)

800000

600000

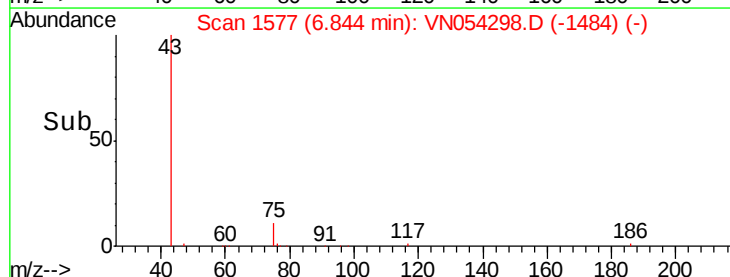
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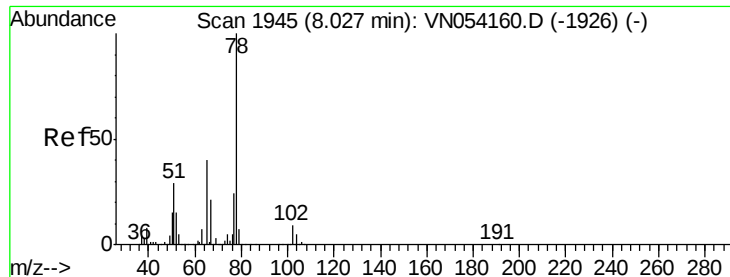
200000

0

6.70 6.75 6.80 6.85 6.90

Time-->

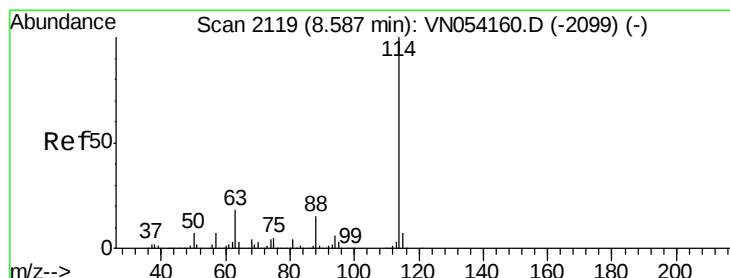
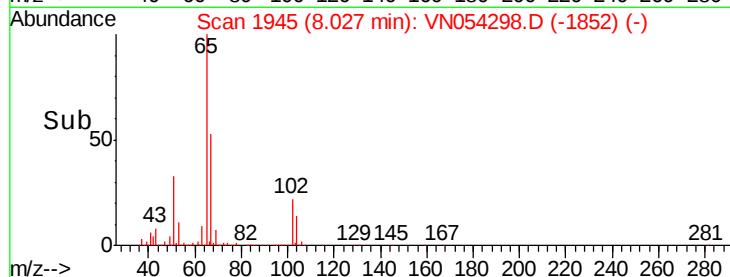
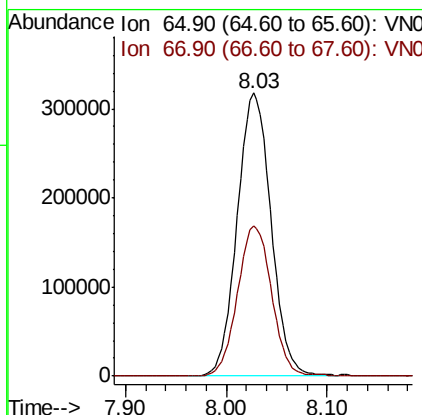
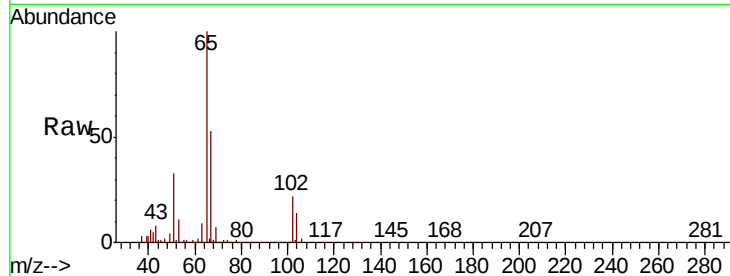




#33
 1,2-Dichloroethane-d4
 Concen: 46.988 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054298.D
 Acq: 15 Mar 2019 8:40

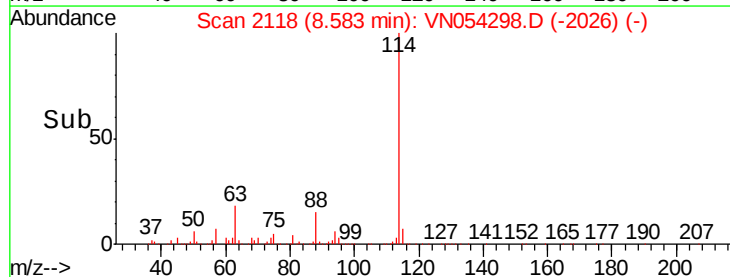
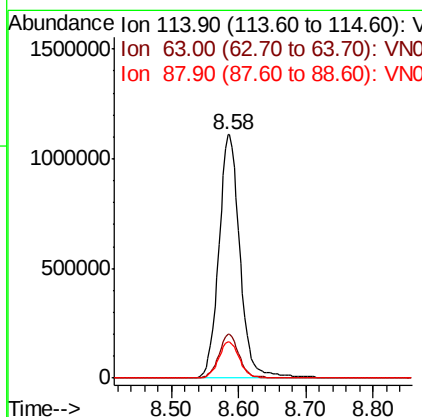
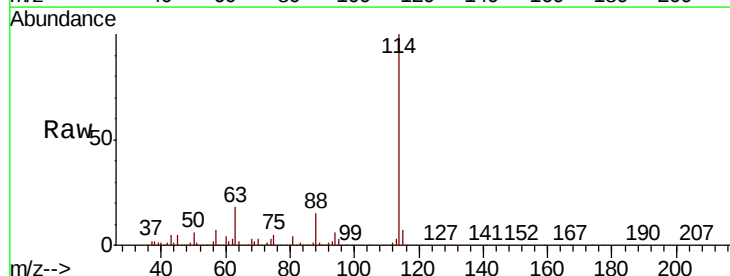
Instrument :
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 30298

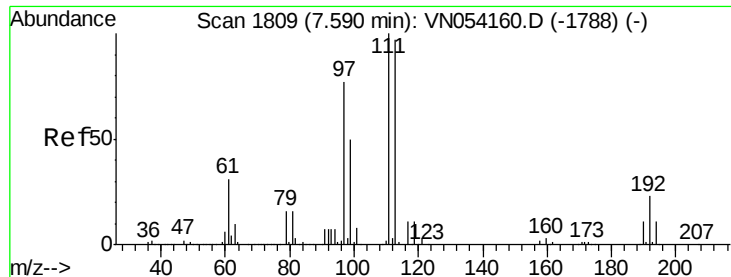
Tgt Ion: 65 Resp: 739587
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN054298.D
 Acq: 15 Mar 2019 8:40

Tgt Ion: 114 Resp: 2433446
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 35.2
 88 15.0 0.0 30.2

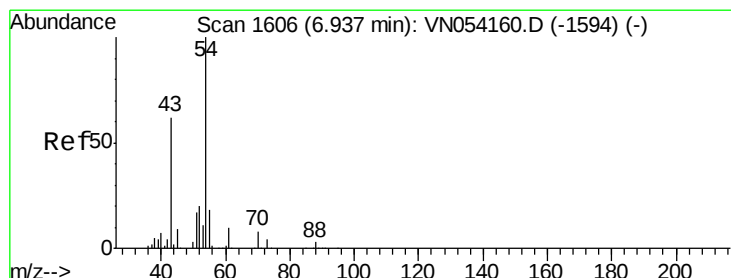
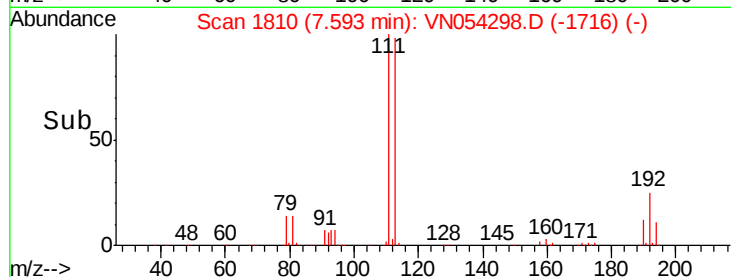
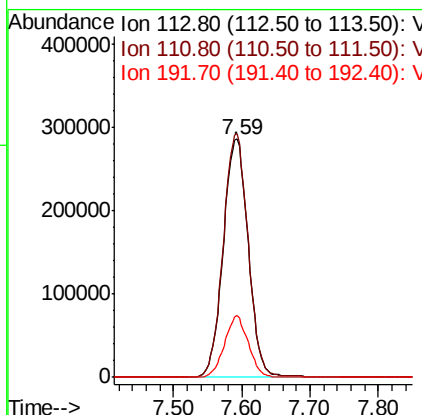
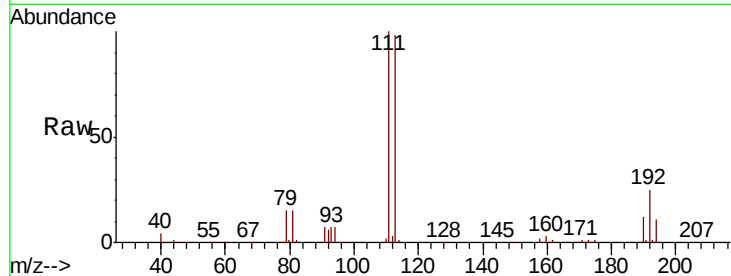




#35
 Dibromofluoromethane
 Concen: 46.525 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054298.D
 Acq: 15 Mar 2019 8:40

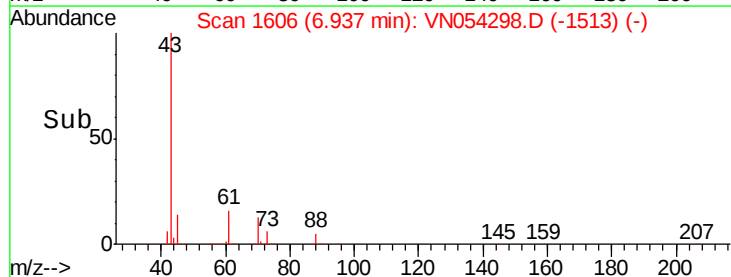
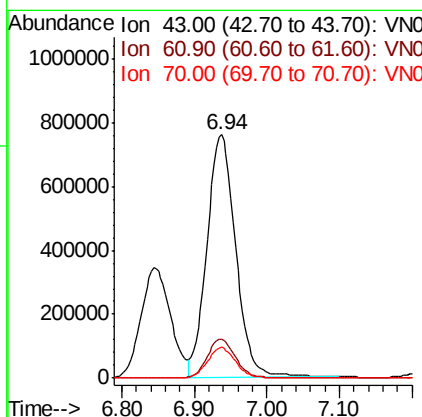
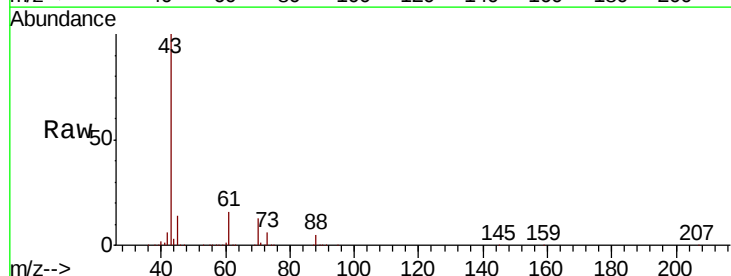
Instrument :
 MSVOA_N
 ClientSampleId :
 30298

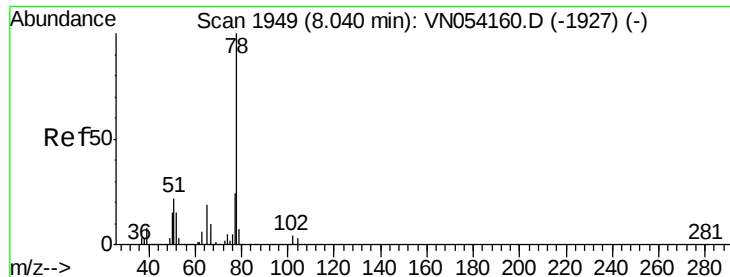
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.2	123.4
192	24.5	19.2	28.8



#37
 Ethyl Acetate
 Concen: 162.140 ug/l
 RT: 6.94 min Scan# 1606
 Delta R.T. 0.00 min
 Lab File: VN054298.D
 Acq: 15 Mar 2019 8:40

Tgt Ion	Ratio	Lower	Upper
43	100		
61	16.0	11.8	17.6
70	12.3	8.4	12.6





#40

Benzene

Concen: 0.240 ug/l

RT: 8.04 min Scan# 1949

Delta R.T. 0.00 min

Lab File: VN054298.D

Acq: 15 Mar 2019 8:40

Instrument :

MSVOA_N

ClientSampleId :

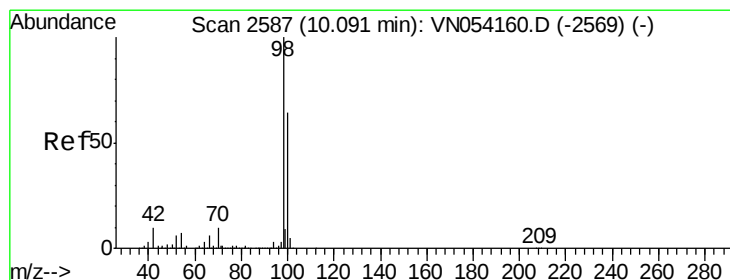
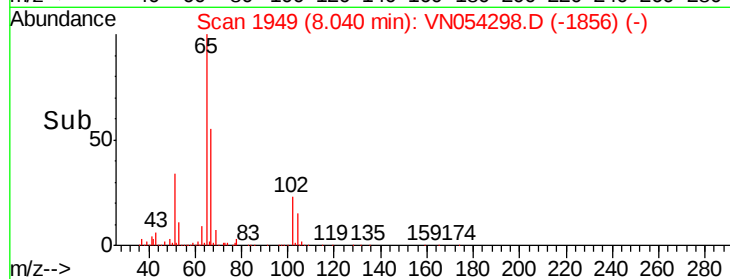
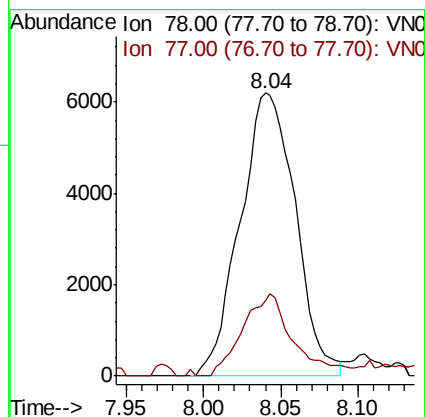
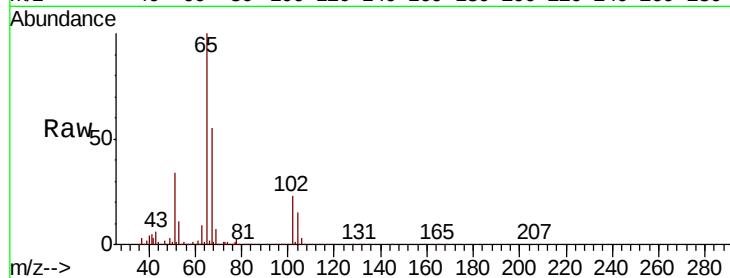
30298

Tgt Ion: 78 Resp: 15399

Ion Ratio Lower Upper

78 100

77 24.6 19.1 28.7



#50

Toluene-d8

Concen: 53.536 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054298.D

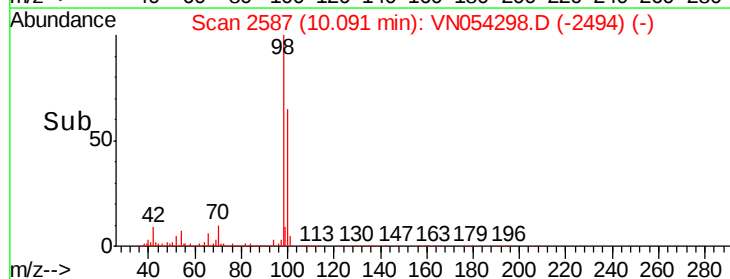
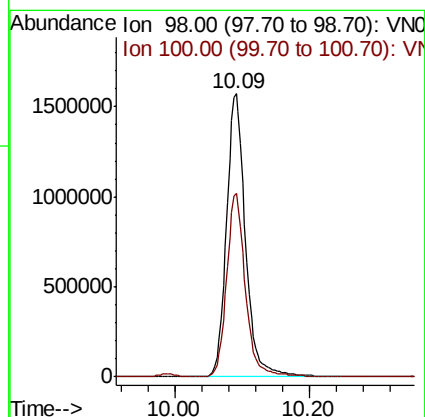
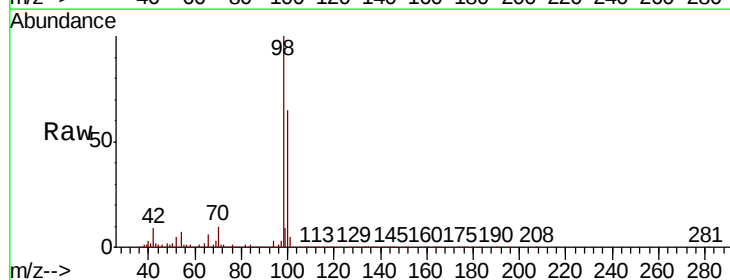
Acq: 15 Mar 2019 8:40

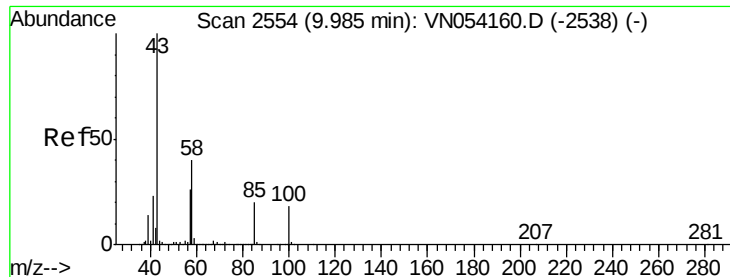
Tgt Ion: 98 Resp: 3103116

Ion Ratio Lower Upper

98 100

100 64.1 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 27.139 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN054298.D

Acq: 15 Mar 2019 8:40

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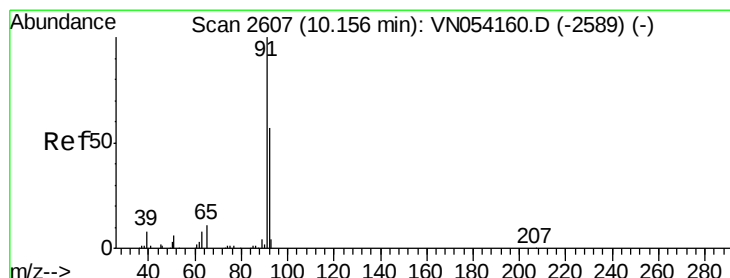
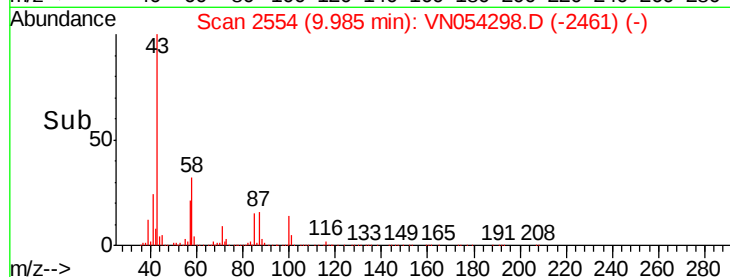
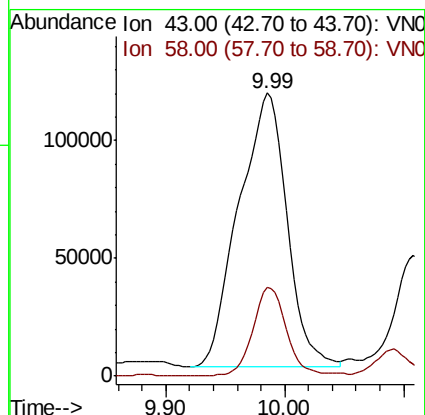
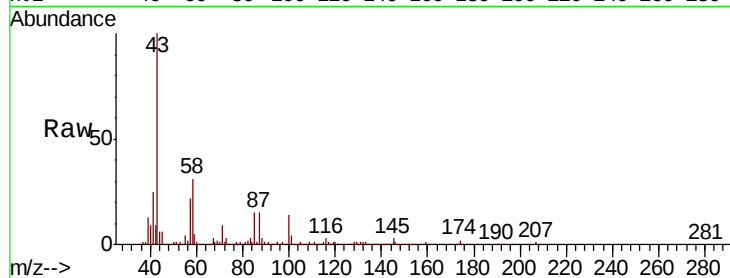
30298

Tgt Ion: 43 Resp: 324613

Ion Ratio Lower Upper

43 100

58 22.3 31.8 47.6#



#52

Toluene

Concen: 7.566 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054298.D

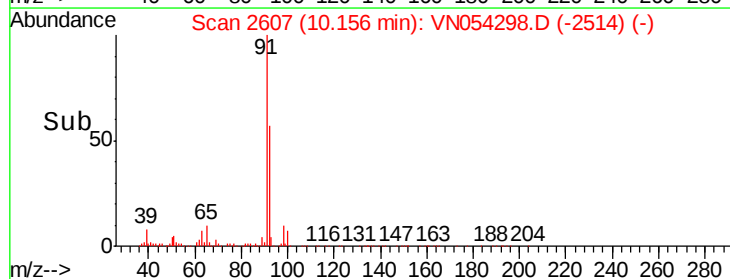
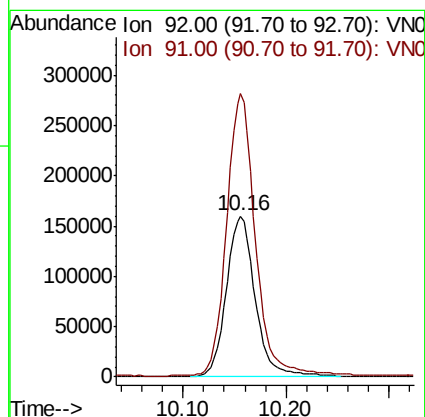
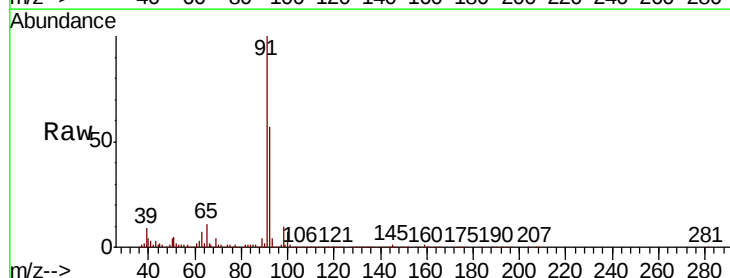
Acq: 15 Mar 2019 8:40

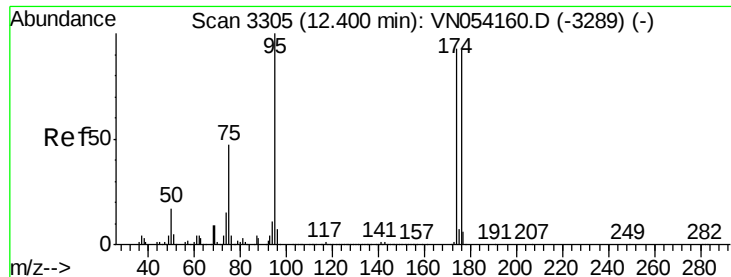
Tgt Ion: 92 Resp: 307630

Ion Ratio Lower Upper

92 100

91 175.3 140.7 211.1





#62

4-Bromofluorobenzene

Concen: 62.149 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054298.D

Acq: 15 Mar 2019 8:40

Instrument :

MSVOA_N

ClientSampleId :

30298

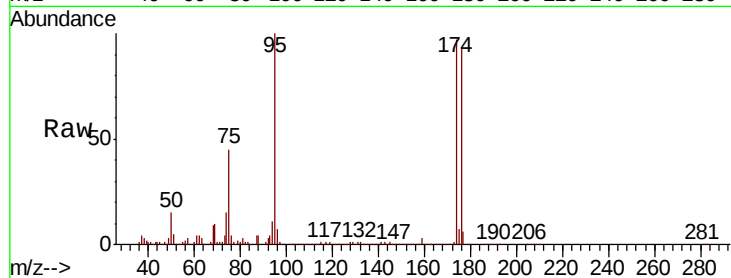
Tgt Ion: 95 Resp: 1260451

Ion Ratio Lower Upper

95 100

174 96.3 0.0 191.0

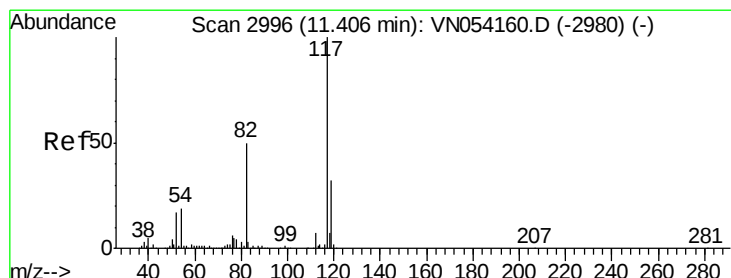
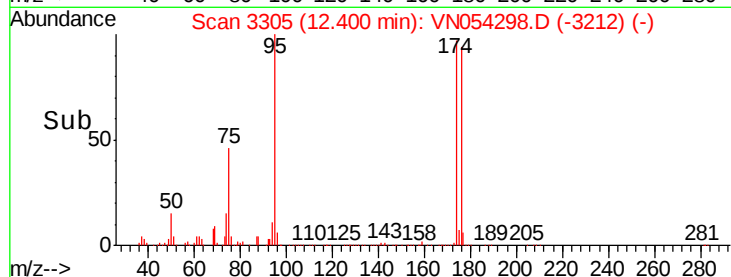
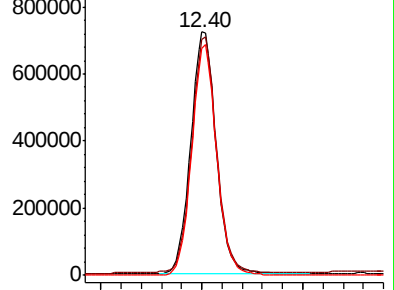
176 94.0 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054298.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN054298.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN054298.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054298.D

Acq: 15 Mar 2019 8:40

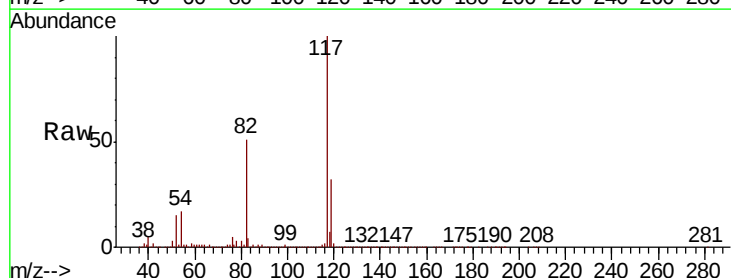
Tgt Ion: 117 Resp: 2639002

Ion Ratio Lower Upper

117 100

82 50.7 40.0 60.0

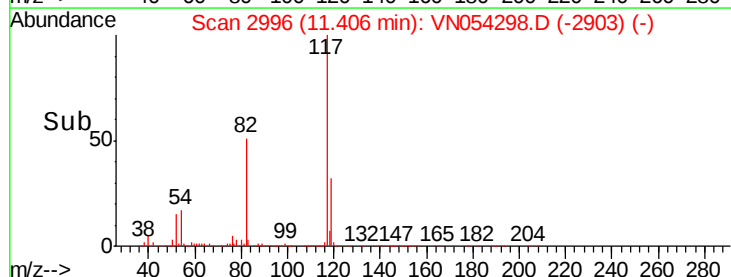
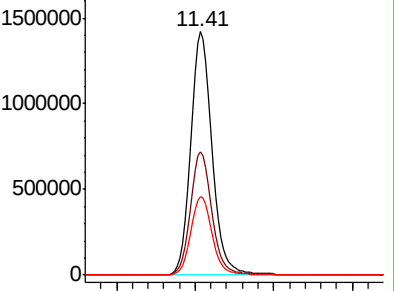
119 32.4 25.8 38.6

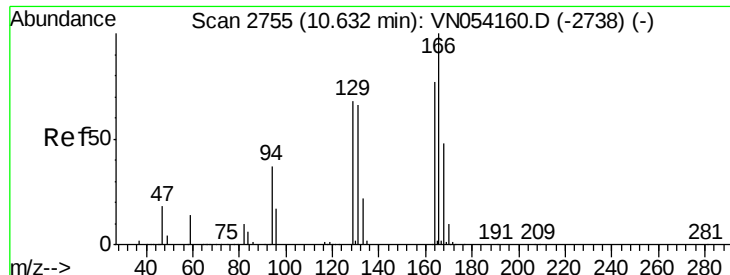


Abundance Ion 116.90 (116.60 to 117.60): VN054298.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054298.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054298.D (-2903) (-)





#64

Tetrachloroethene

Concen: 4.986 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN054298.D

Acq: 15 Mar 2019 8:40

Instrument :

MSVOA_N

ClientSampleId :

30298

Tgt Ion:164 Resp: 127217

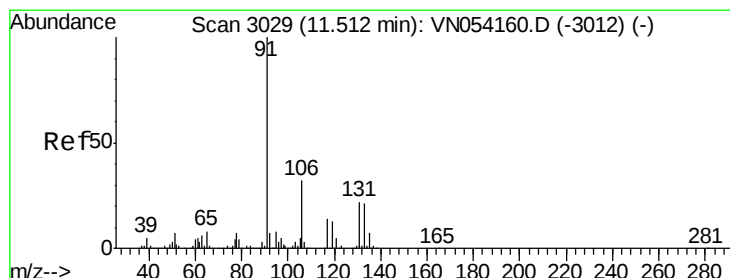
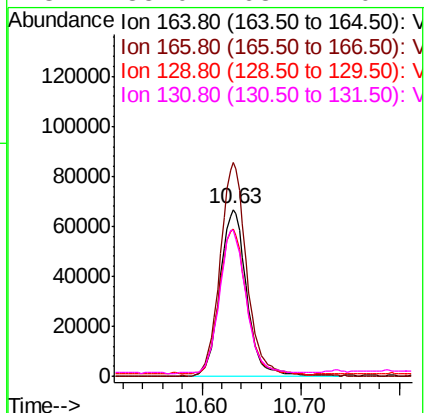
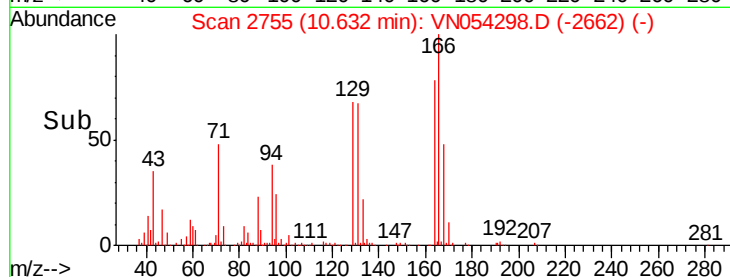
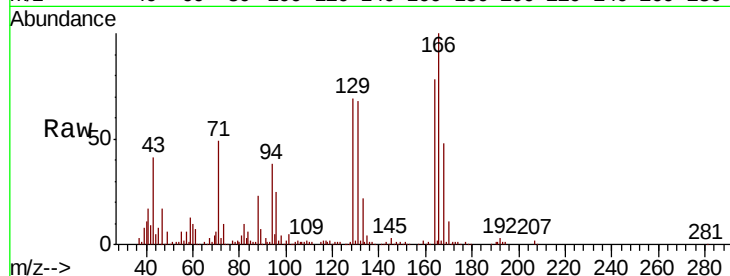
Ion Ratio Lower Upper

164 100

166 127.7 103.9 155.9

129 87.0 71.1 106.7

131 85.0 68.2 102.4



#67

Ethyl Benzene

Concen: 13.828 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN054298.D

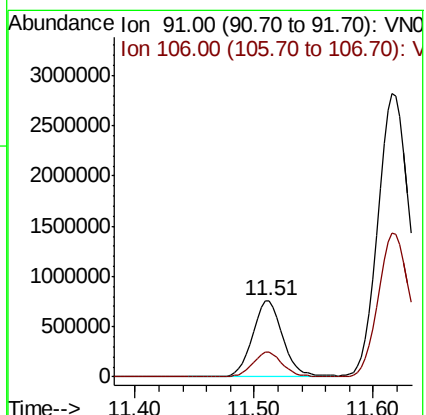
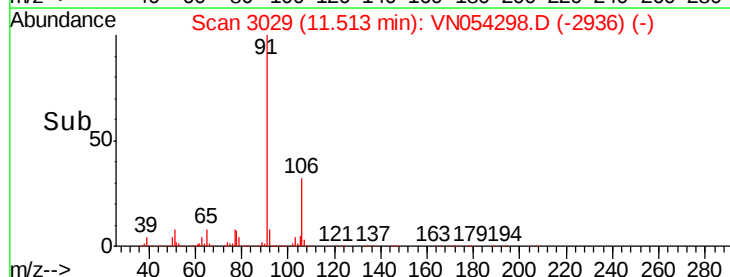
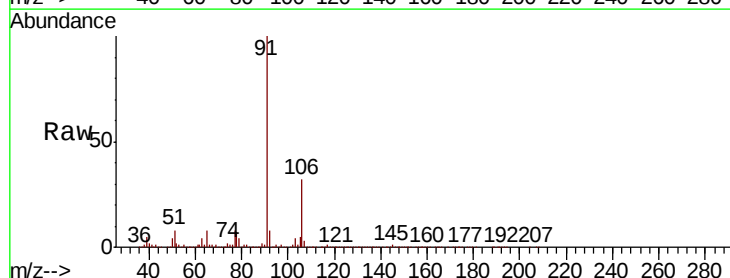
Acq: 15 Mar 2019 8:40

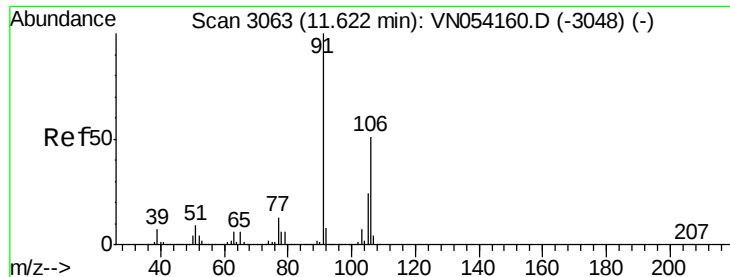
Tgt Ion: 91 Resp: 1328240

Ion Ratio Lower Upper

91 100

106 31.9 25.5 38.3

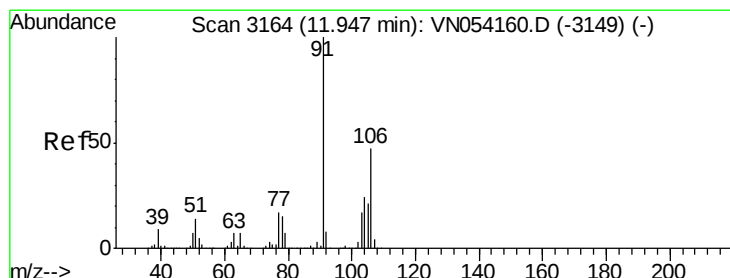
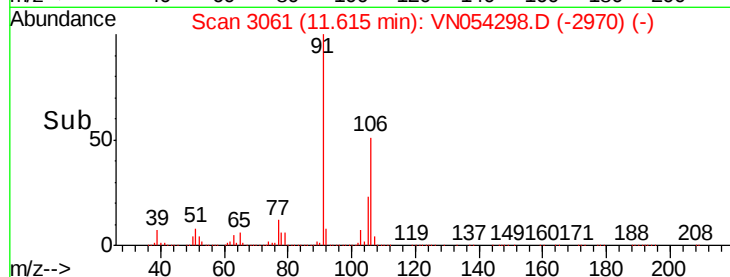
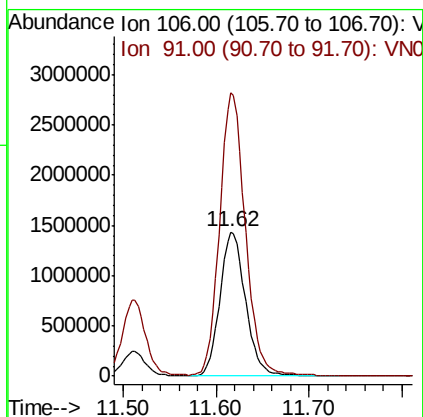
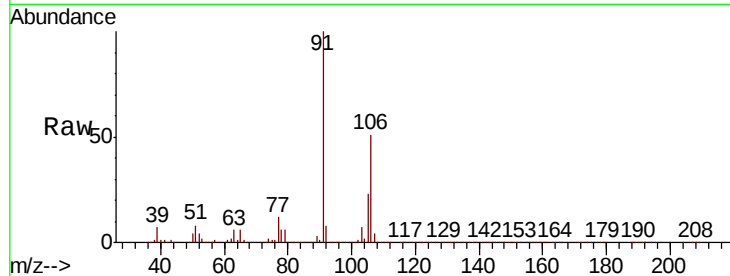




#68
m/p-Xylenes
Concen: 72.993 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.01 min
Lab File: VN054298.D
Acq: 15 Mar 2019 8:40

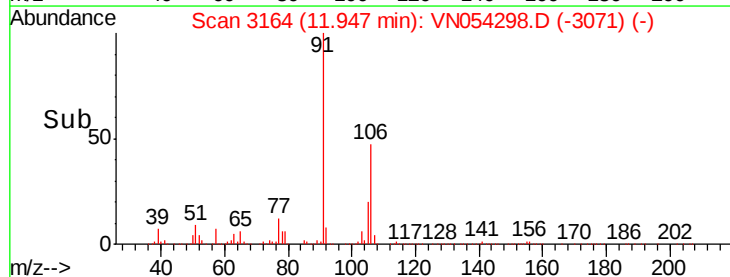
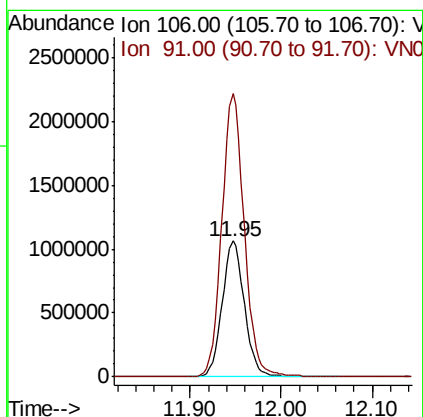
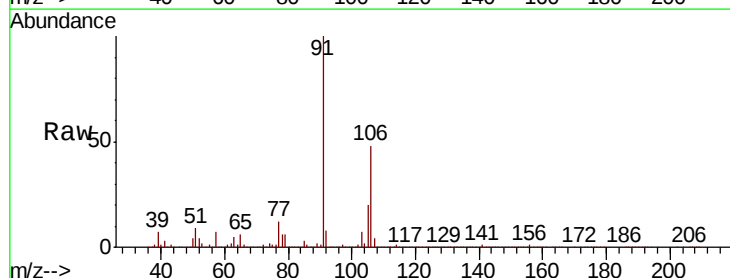
Instrument :
MSVOA_N
ClientSampled :
30298

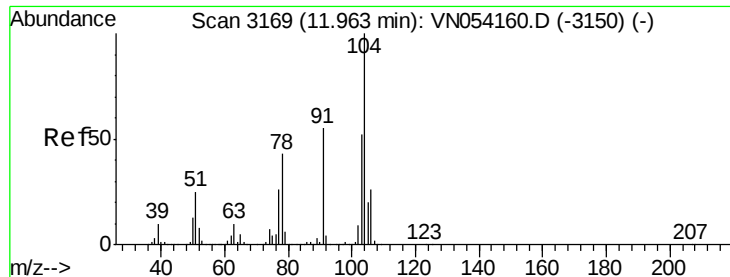
Tgt Ion:106 Resp: 2740340
Ion Ratio Lower Upper
106 100
91 197.5 159.4 239.2



#69
o-Xylene
Concen: 49.105 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054298.D
Acq: 15 Mar 2019 8:40

Tgt Ion:106 Resp: 1797138
Ion Ratio Lower Upper
106 100
91 209.7 105.7 317.1





#70

Styrene

Concen: 1.570 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.02 min

Lab File: VN054298.D

Acq: 15 Mar 2019 8:40

Instrument :

MSVOA_N

ClientSampleId :
30298

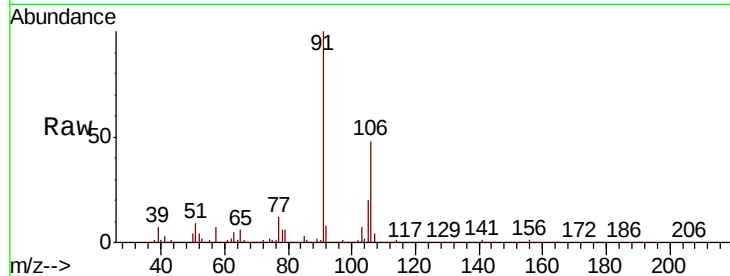
Tgt Ion:104 Resp: 90139

Ion Ratio Lower Upper

104 100

78 262.3 38.2 57.2#

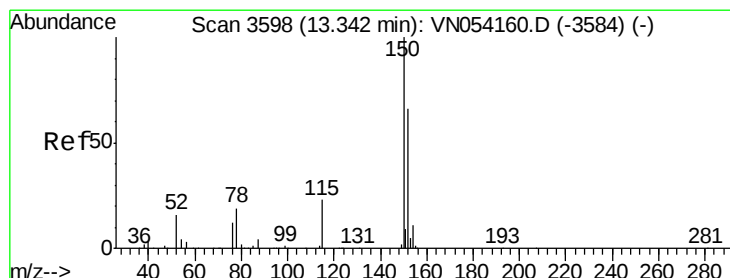
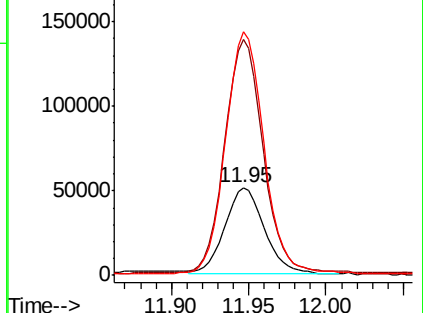
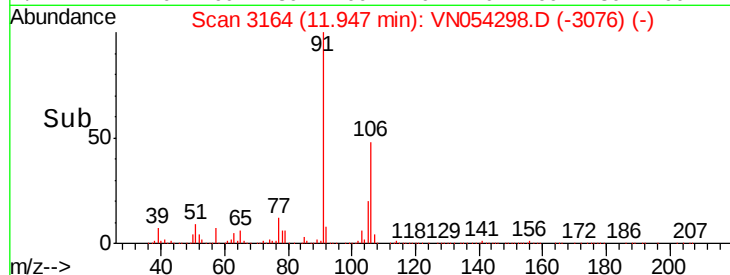
103 271.0 44.4 66.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054298.D

Acq: 15 Mar 2019 8:40

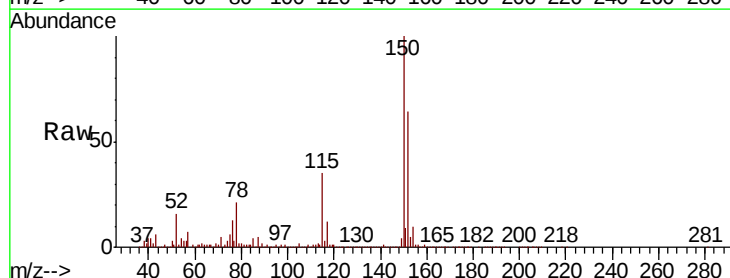
Tgt Ion:152 Resp: 1303112

Ion Ratio Lower Upper

152 100

115 66.2 27.2 81.6

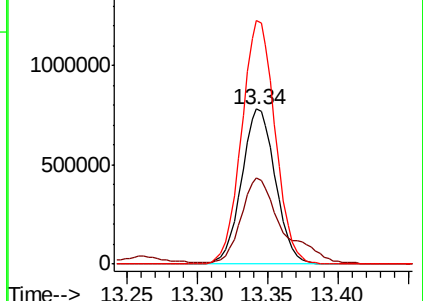
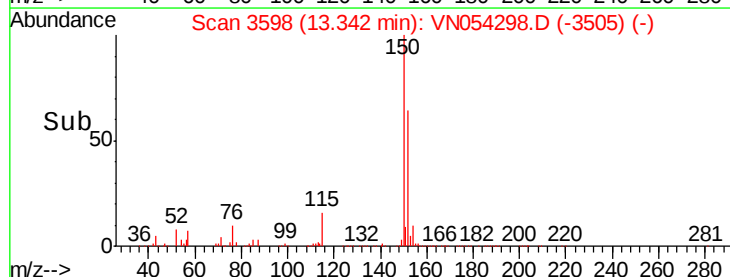
150 156.3 0.0 349.2

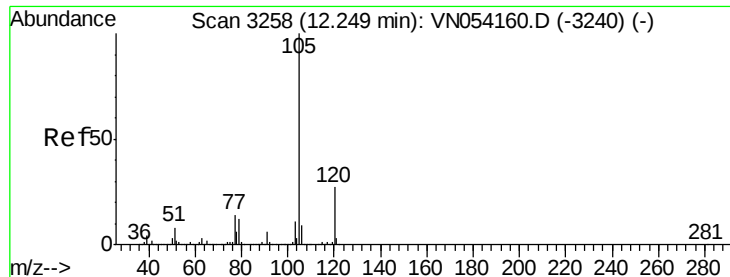


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 2.035 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054298.D

Acq: 15 Mar 2019 8:40

Instrument :

MSVOA_N

ClientSampleId :

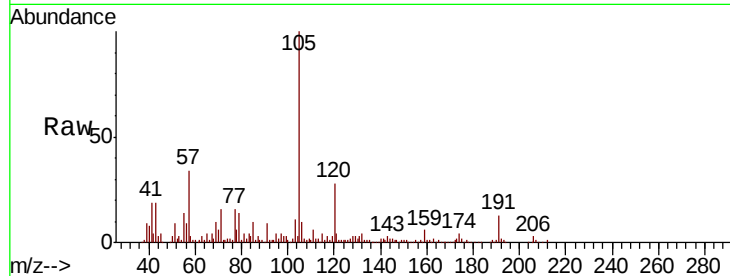
30298

Tgt Ion: 105 Resp: 212118

Ion Ratio Lower Upper

105 100

120 27.2 13.8 41.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

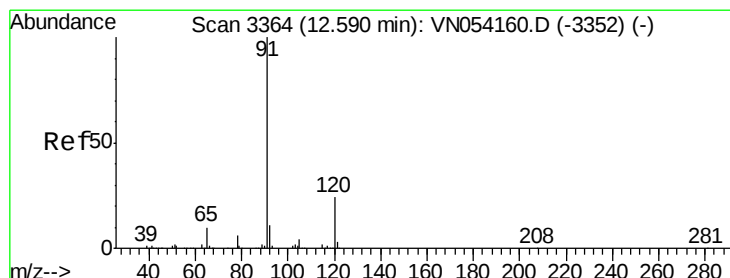
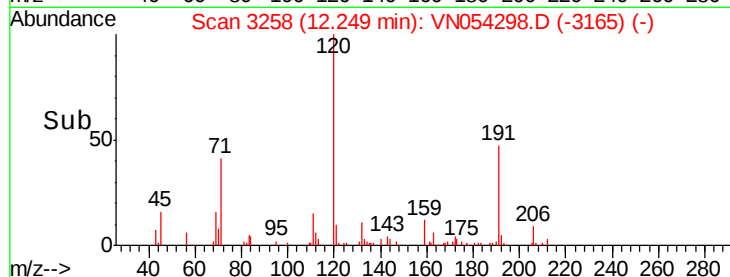
100000

50000

0

Time-->

12.20 12.30



#78

n-propylbenzene

Concen: 8.241 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN054298.D

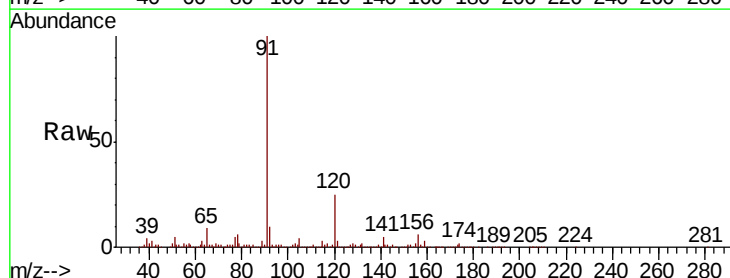
Acq: 15 Mar 2019 8:40

Tgt Ion: 91 Resp: 932295

Ion Ratio Lower Upper

91 100

120 24.3 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V

12.59

1000000

800000

600000

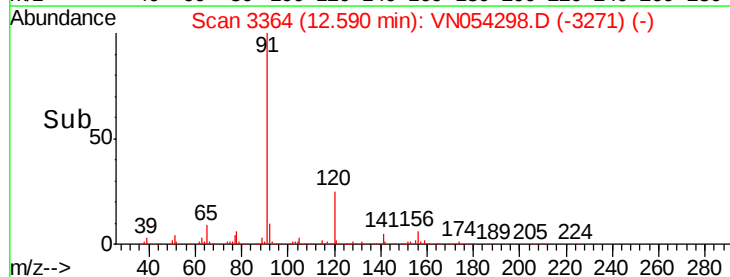
400000

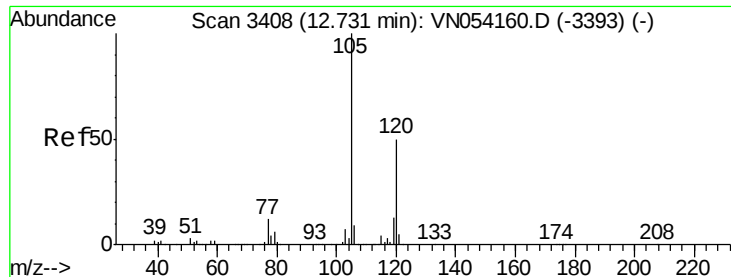
200000

0

Time-->

12.55 12.60 12.65





#80

1,3,5-Trimethylbenzene

Concen: 26.424 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054298.D

Acq: 15 Mar 2019 8:40

Instrument :

MSVOA_N

ClientSampleId :

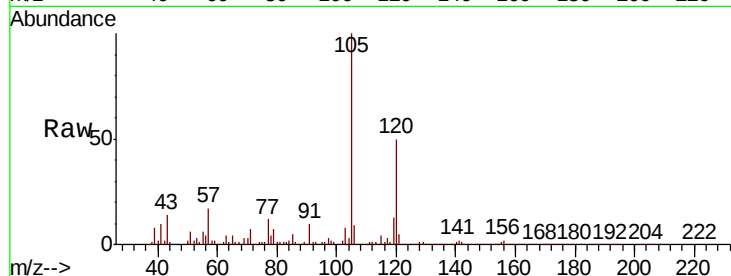
30298

Tgt Ion:105 Resp: 2291534

Ion Ratio Lower Upper

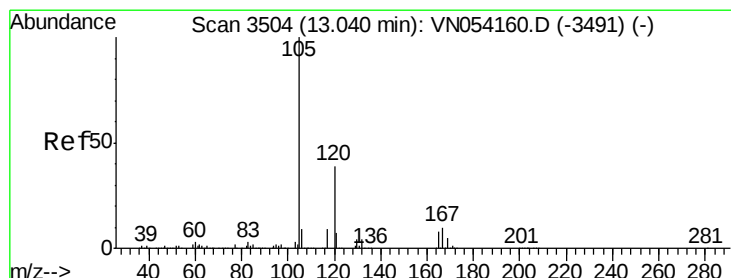
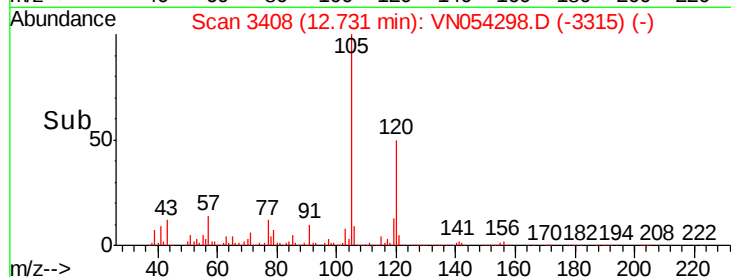
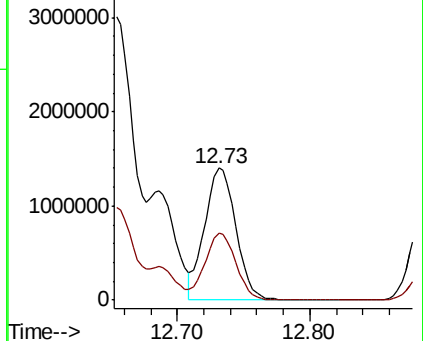
105 100

120 50.0 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 117.319 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN054298.D

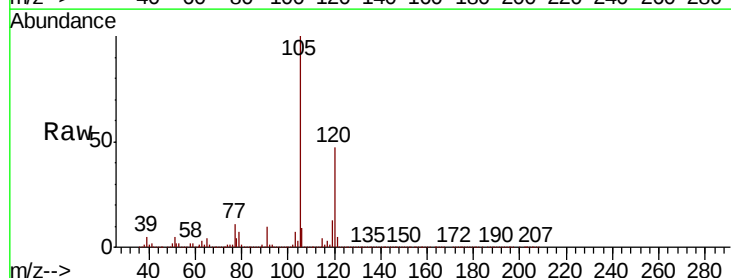
Acq: 15 Mar 2019 8:40

Tgt Ion:105 Resp: 9981069

Ion Ratio Lower Upper

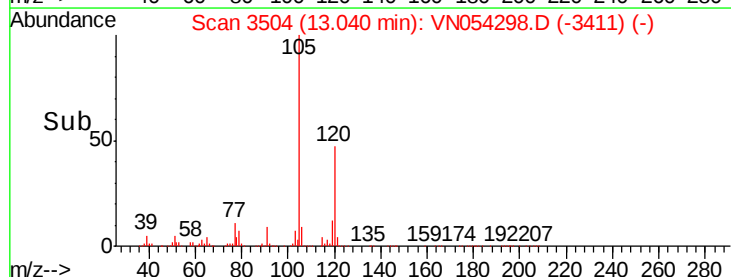
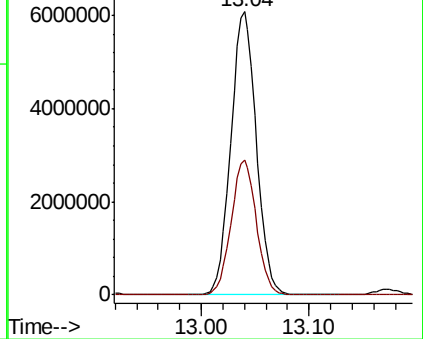
105 100

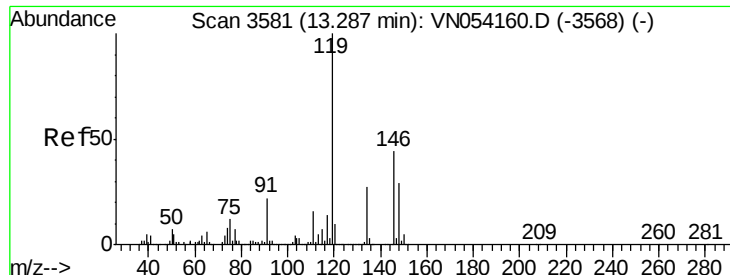
120 47.1 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

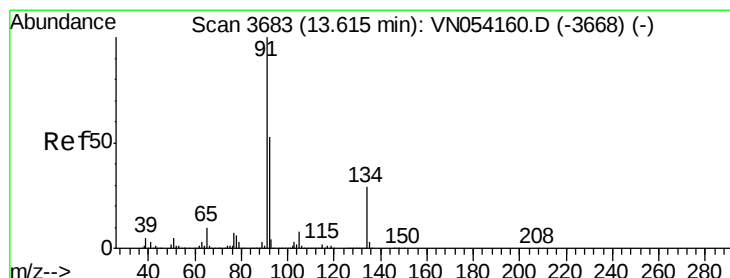
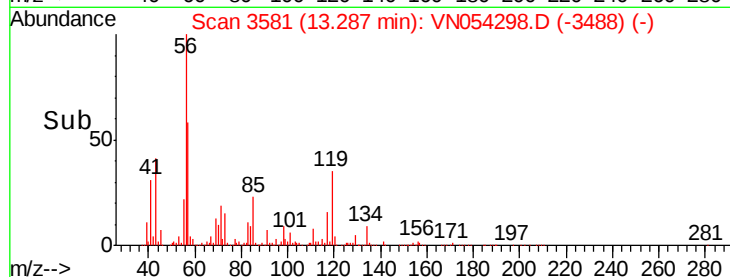
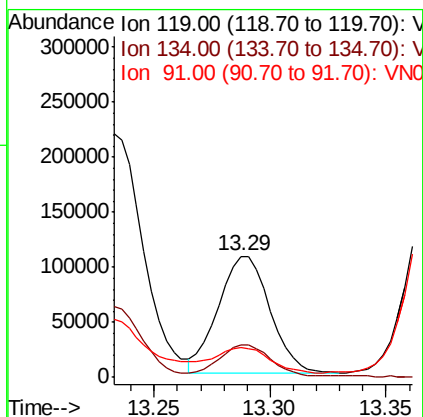
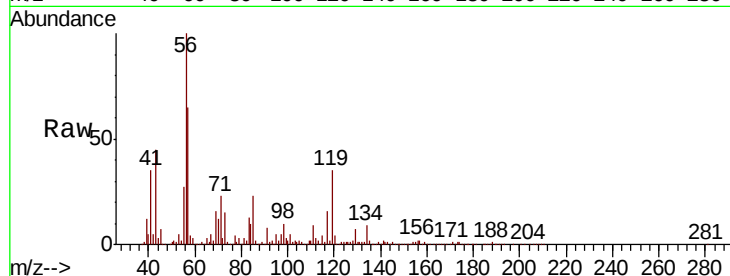




#86
p-Isopropyltoluene
Concen: 1.803 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. 0.00 min
Lab File: VN054298.D
Acq: 15 Mar 2019 8:40

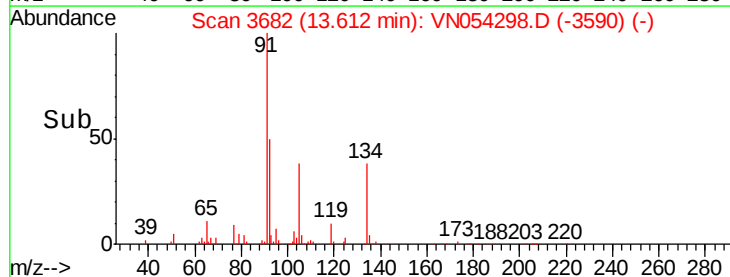
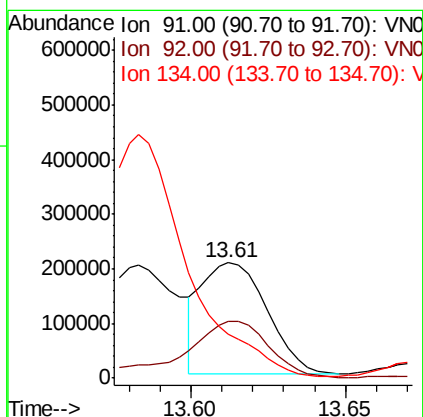
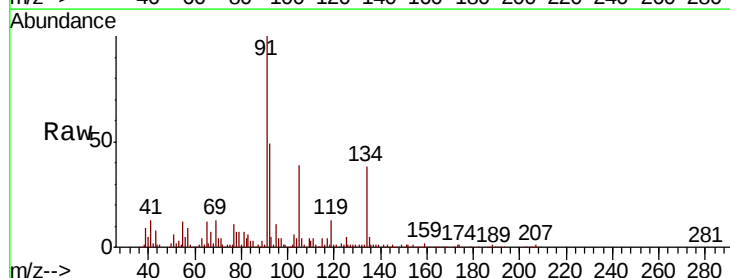
Instrument :
MSVOA_N
ClientSampled :
30298

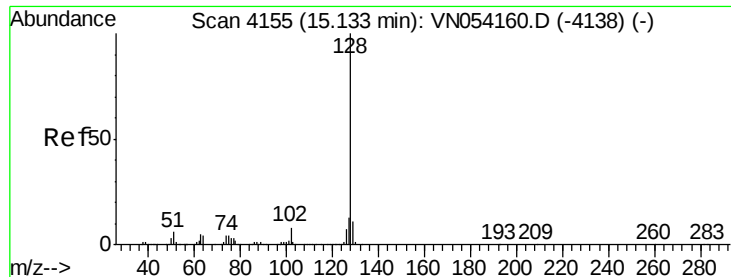
Tgt Ion: 119 Resp: 163743
Ion Ratio Lower Upper
119 100
134 27.9 13.6 40.8
91 22.4 11.1 33.3



#89
n-Butylbenzene
Concen: 4.315 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN054298.D
Acq: 15 Mar 2019 8:40

Tgt Ion: 91 Resp: 297757
Ion Ratio Lower Upper
91 100
92 66.2 26.2 78.6
134 0.0 14.3 42.9#

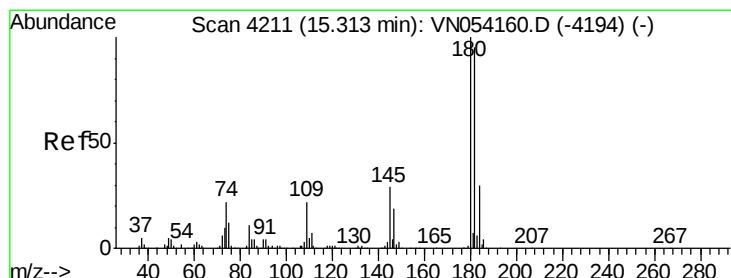
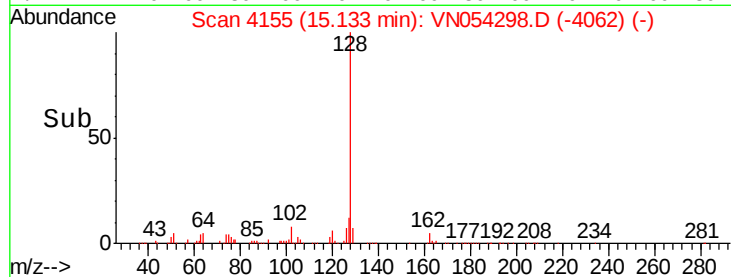
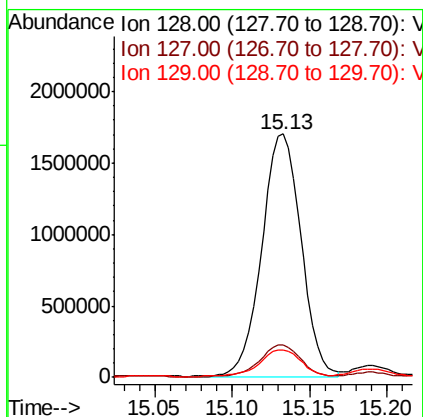
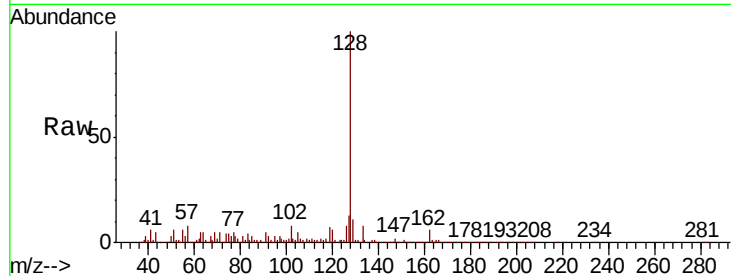




#95
Naphthalene
Concen: 52.153 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN054298.D
Acq: 15 Mar 2019 8:40

Instrument :
MSVOA_N
ClientSampleId :
30298

Tgt Ion:128 Resp: 2989979
Ion Ratio Lower Upper
128 100
127 13.6 10.1 15.1
129 11.7 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 0.913 ug/l
RT: 15.34 min Scan# 4219
Delta R.T. 0.03 min
Lab File: VN054298.D
Acq: 15 Mar 2019 8:40

Tgt Ion:180 Resp: 22036
Ion Ratio Lower Upper
180 100
182 0.0 47.5 142.6#
145 1186.6 14.8 44.3#

