

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN120718\
 Data File : VN052723.D
 Acq On : 7 Dec 2018 13:39
 Operator : MD\SY
 Sample : J6019-04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4

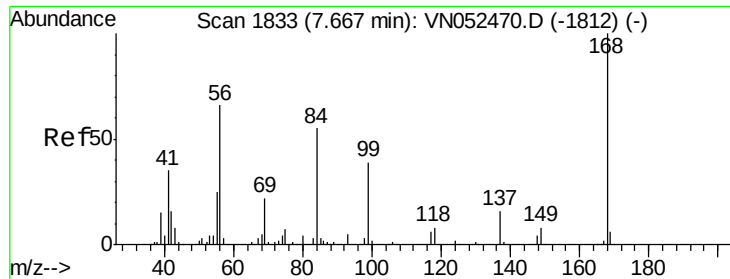
Manual Integrations
 APPROVED

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 12/10/2018 12:50:46 PM

Quant Time: Dec 10 11:22:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1172411	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1787751	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1556700	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	653139	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	599370	46.95	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.90%	
35) Dibromofluoromethane	7.59	113	545956	49.54	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.08%	
50) Toluene-d8	10.09	98	2193430	51.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.26%	
62) 4-Bromofluorobenzene	12.40	95	714718	49.58	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.16%	
Target Compounds						
					Qvalue	
31) Cyclohexane	7.65	56	784158	35.583	ug/l	96
39) Methylcyclohexane	9.08	83	459556	22.396	ug/l	98
40) Benzene	8.04	78	559162	11.114	ug/l	99
52) Toluene	10.16	92	217390	7.272	ug/l	100
67) Ethyl Benzene	11.51	91	641170	11.406	ug/l	99
68) m/p-Xylenes	11.62	106	487225	23.283	ug/l	99
69) o-Xylene	11.95	106	23190	1.141	ug/l	98
73) Isopropylbenzene	12.25	105	4262722	83.187	ug/l	100
78) n-propylbenzene	12.59	91	4590246	78.851	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	76414	1.870	ug/l	100
83) tert-Butylbenzene	12.99	119	40622	1.115	ug/l	96
84) 1,2,4-Trimethylbenzene	13.04	105	8729m	0.213	ug/l	
85) sec-Butylbenzene	13.17	105	239617	4.829	ug/l #	67
86) p-Isopropyltoluene	13.29	119	32140	0.760	ug/l #	78
89) n-Butylbenzene	13.62	91	251255	7.148	ug/l	93
93) 1,2,4-Trichlorobenzene	14.91	180	9482	3.601	ug/l #	39
95) Naphthalene	15.13	128	57433	5.604	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	9933	3.608	ug/l #	81

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

ClientSampled :

MW-4

Tgt Ion: 168 Resp: 1172411

Ion Ratio Lower Upper

168 100

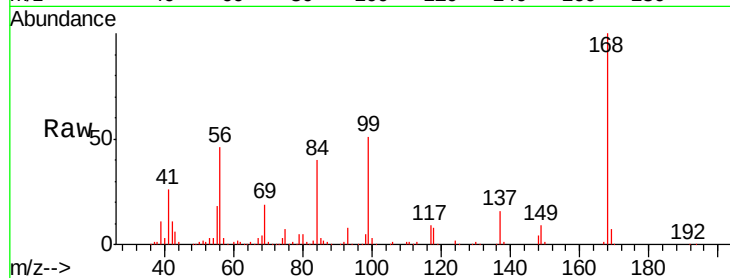
99 51.1 41.7 62.5

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

500000

400000

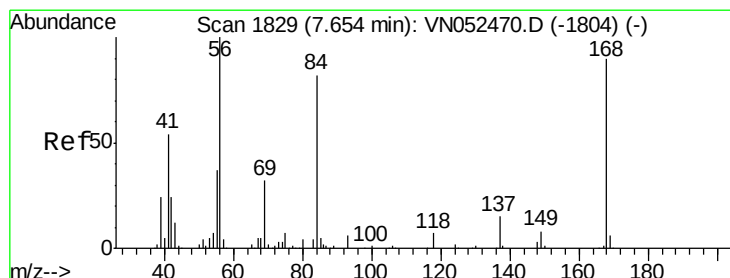
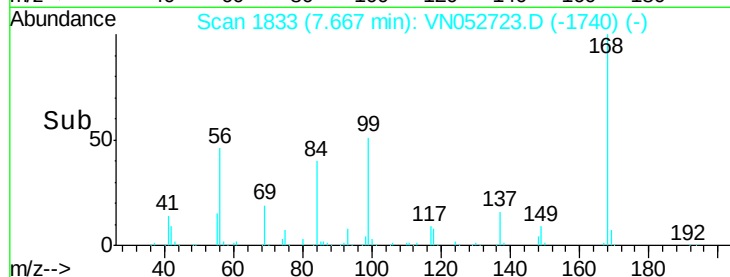
300000

200000

100000

0

Time-->



#31

Cyclohexane

Concen: 35.583 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

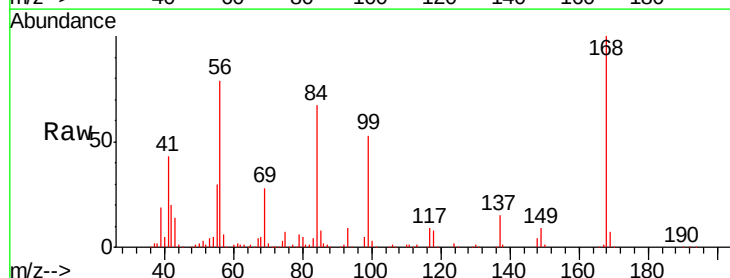
Tgt Ion: 56 Resp: 784158

Ion Ratio Lower Upper

56 100

69 33.6 25.8 38.6

84 85.4 65.3 97.9



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 84.00 (83.70 to 84.70): VNO

7.65

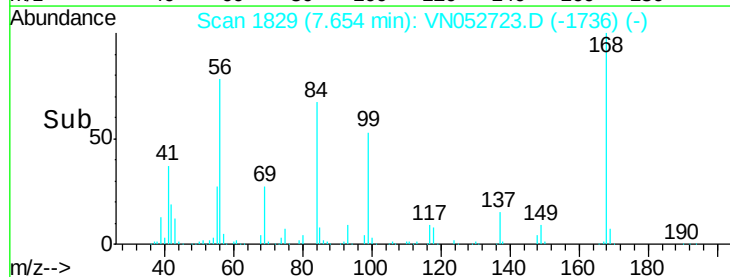
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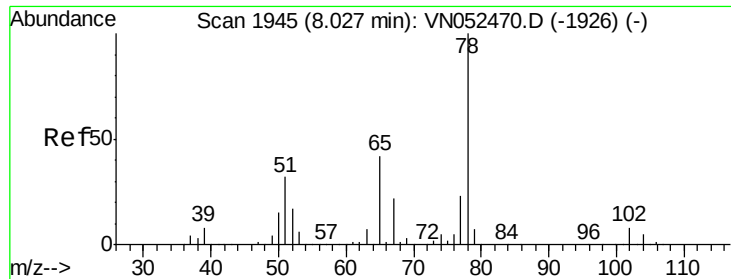
200000

100000

0

Time-->





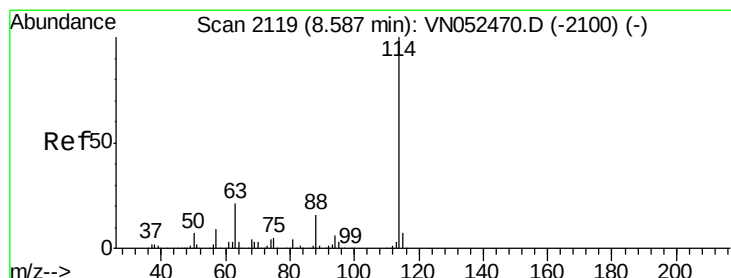
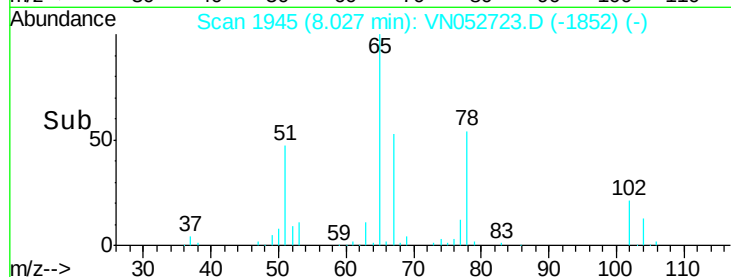
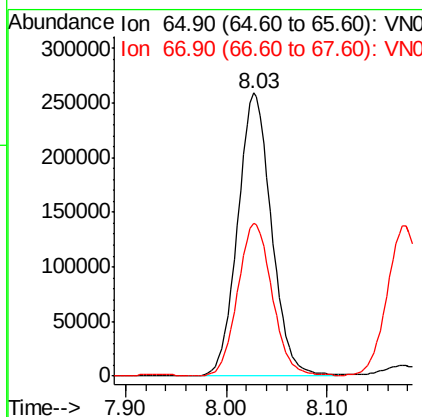
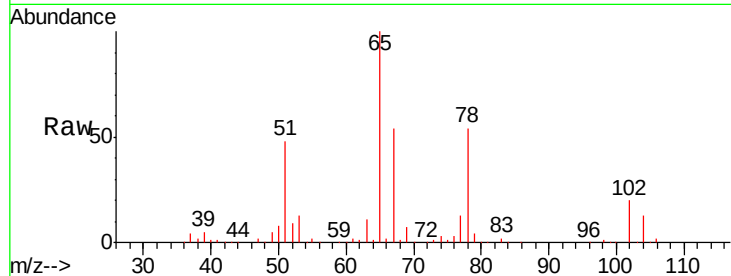
#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052723.D
 Acq: 7 Dec 2018 13:39

Instrument :
 MSVOA_N
 ClientSampled :
 MW-4

Tgt Ion: 65 Resp: 599370
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 109.8

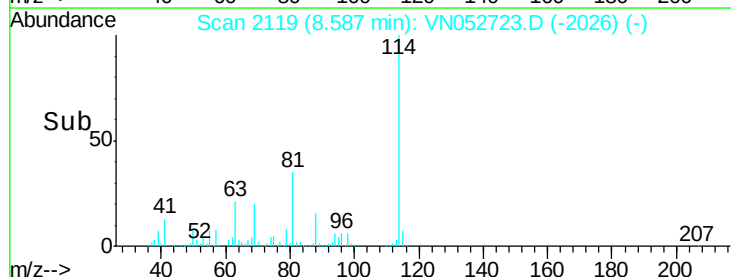
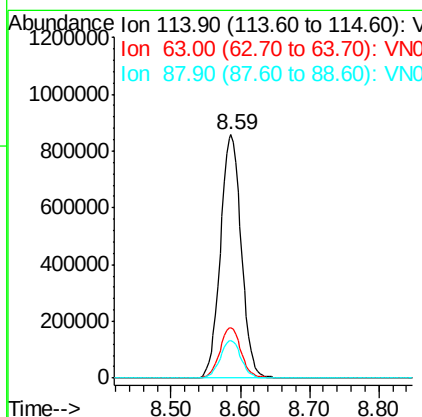
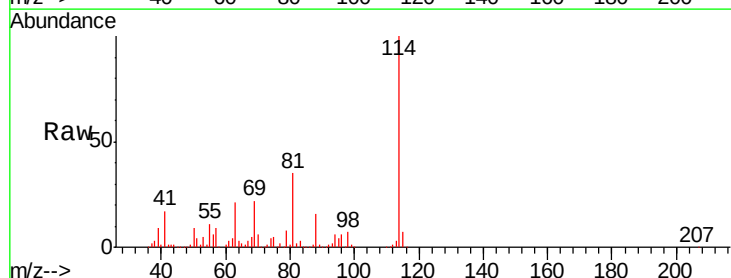
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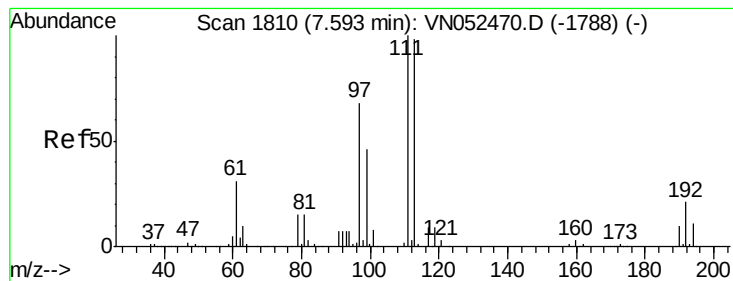
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052723.D
 Acq: 7 Dec 2018 13:39

Tgt Ion: 114 Resp: 1787751
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 41.8
 88 15.5 0.0 31.6





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

ClientSampled :

MW-4

Tgt Ion: 113 Resp: 545956
Ion Ratio Lower Upper

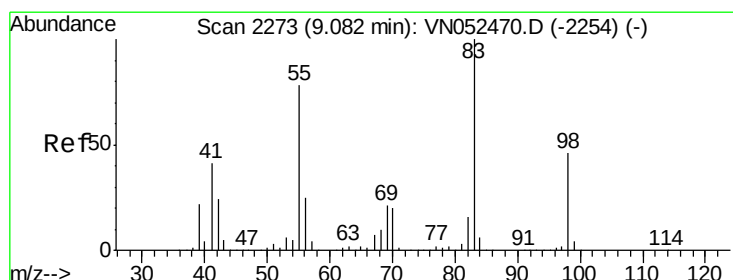
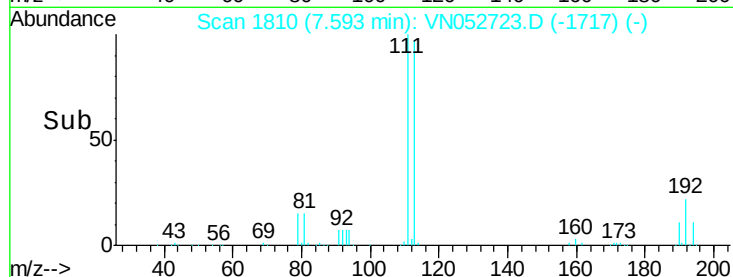
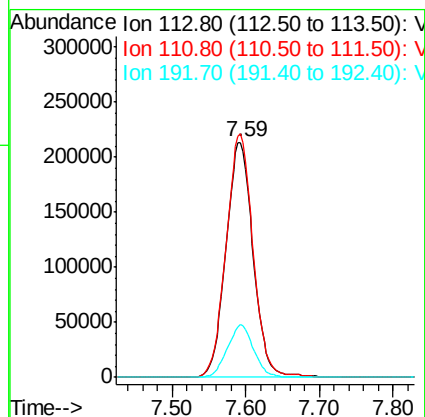
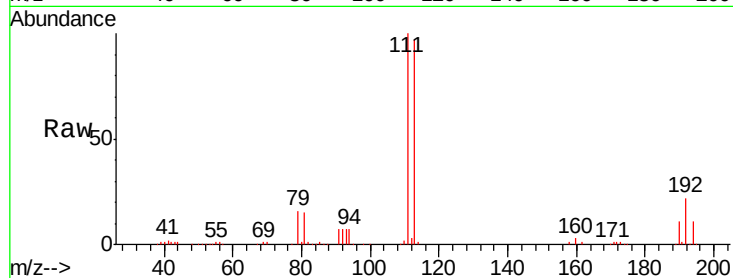
113 100

111 102.7 82.0 123.0

192 21.7 17.0 25.6

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#39

Methylcyclohexane

Concen: 22.396 ug/l

RT: 9.08 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VN052723.D

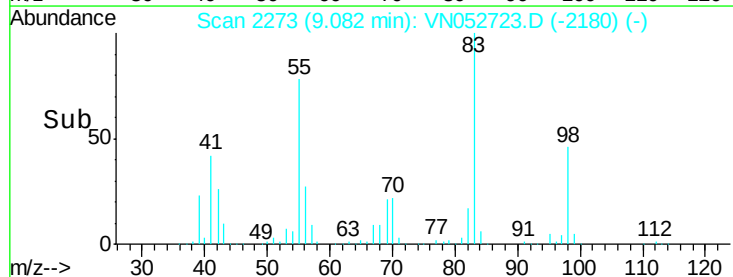
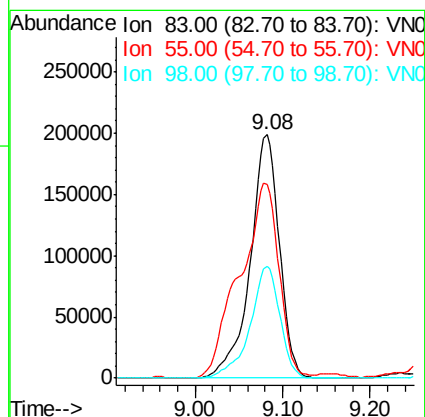
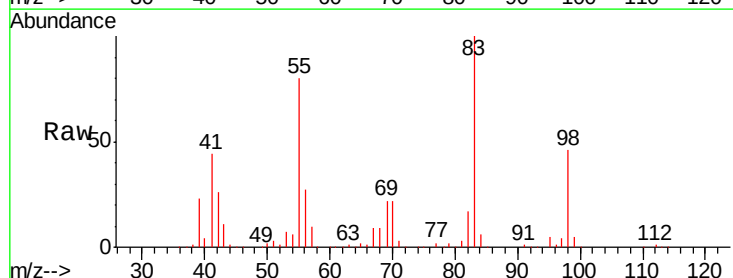
Acq: 7 Dec 2018 13:39

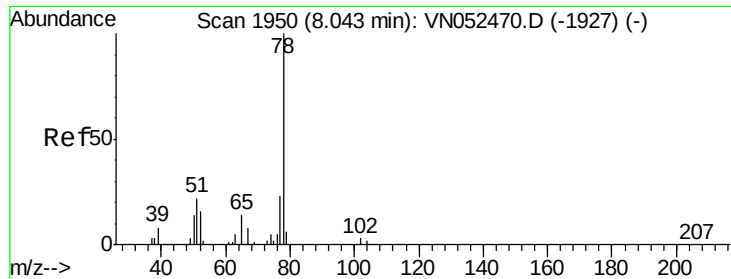
Tgt Ion: 83 Resp: 459556
Ion Ratio Lower Upper

83 100

55 79.4 62.2 93.2

98 46.1 36.4 54.6





#40

Benzene

Concen: 11.114 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. 0.00 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

ClientSampled :

MW-4

Tgt Ion: 78 Resp: 559162

Ion Ratio Lower Upper

78 100

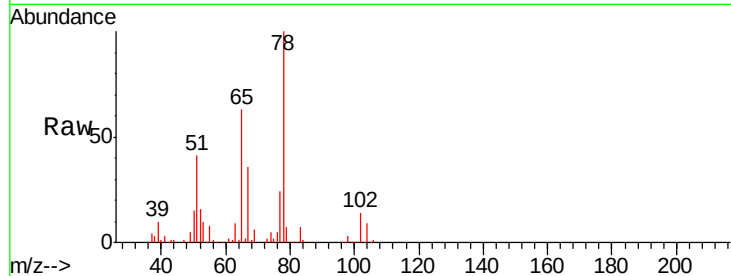
77 24.0 18.8 28.2

Manual Integrations

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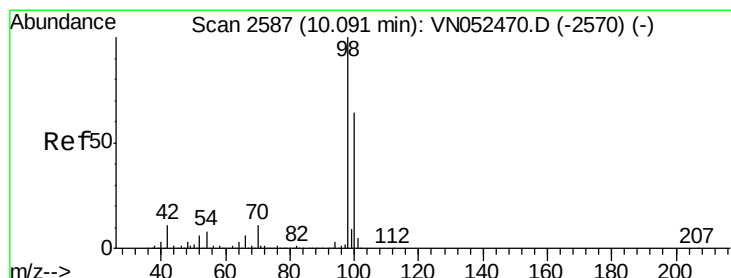
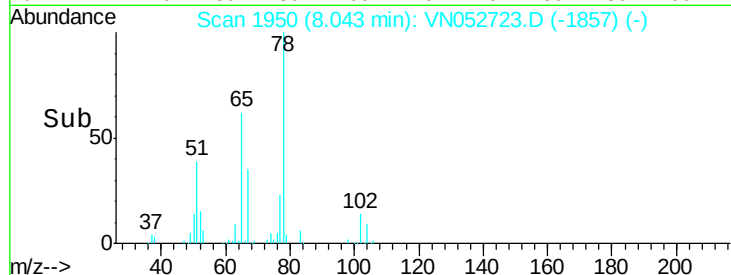
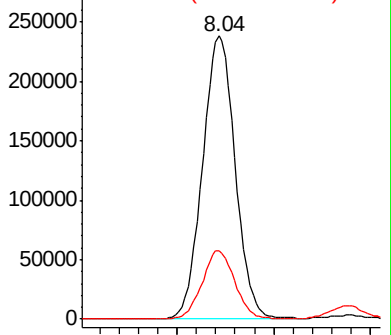
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Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052723.D

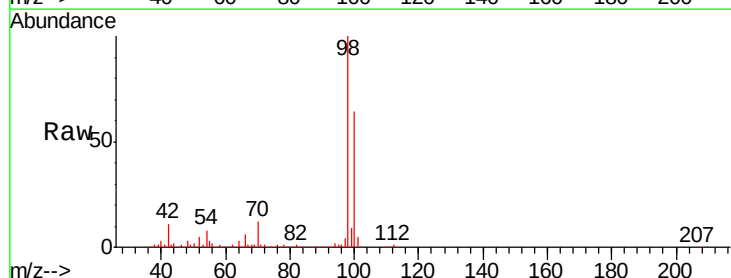
Acq: 7 Dec 2018 13:39

Tgt Ion: 98 Resp: 2193430

Ion Ratio Lower Upper

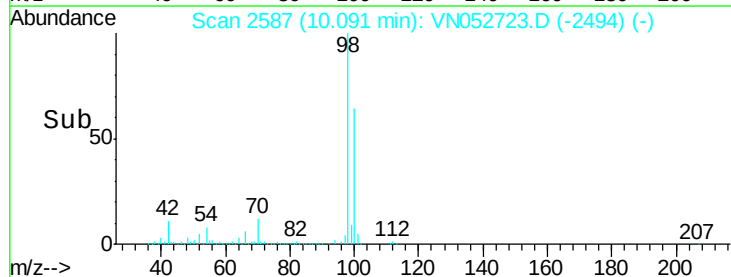
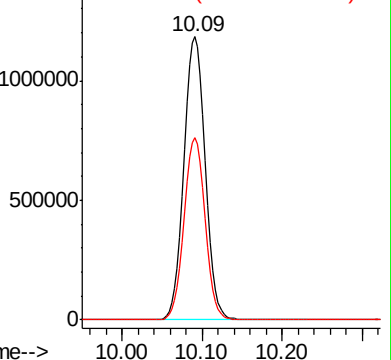
98 100

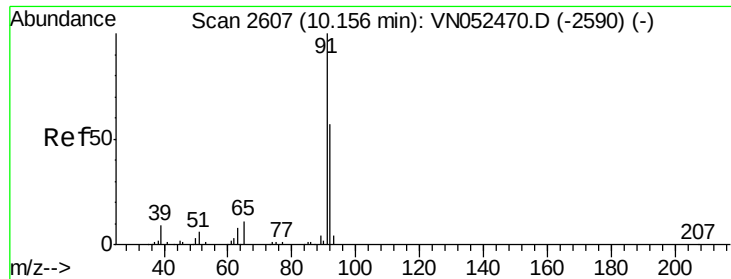
100 63.9 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#52

Toluene

Concen: 7.272 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

ClientSampled :

MW-4

Tgt Ion: 92 Resp: 217390

Ion Ratio Lower Upper

92 100

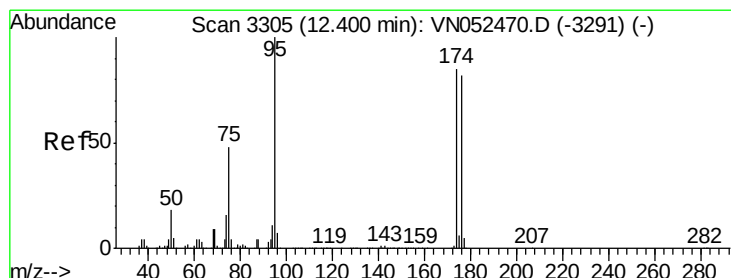
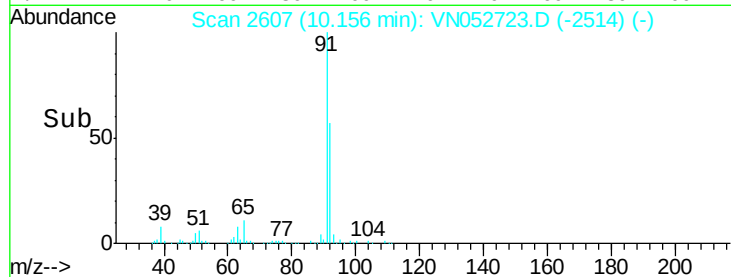
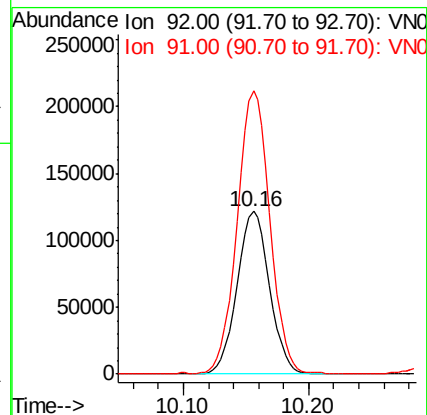
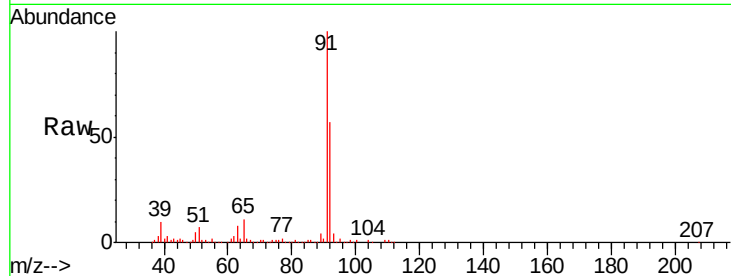
91 175.6 141.0 211.4

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

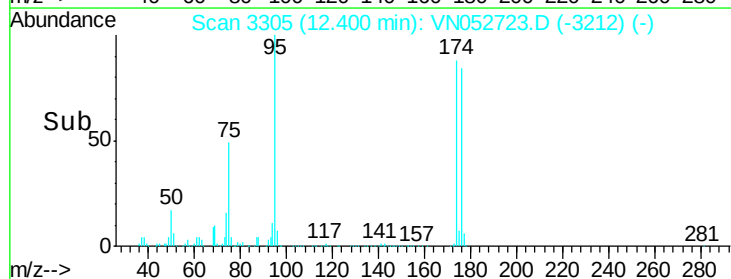
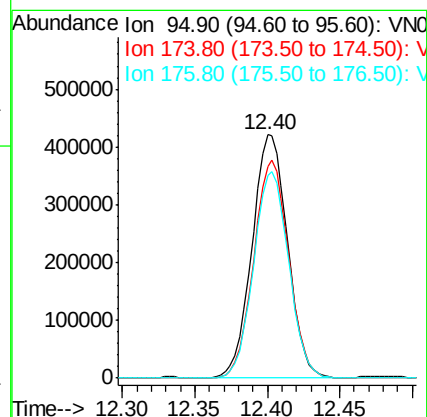
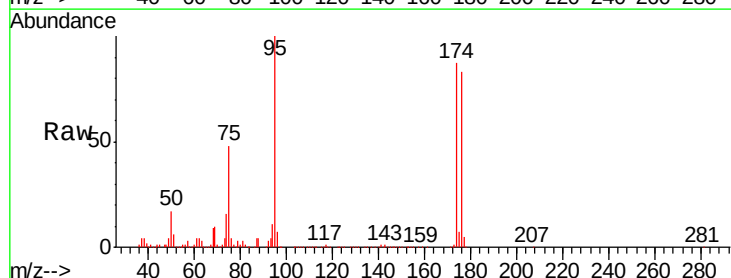
Tgt Ion: 95 Resp: 714718

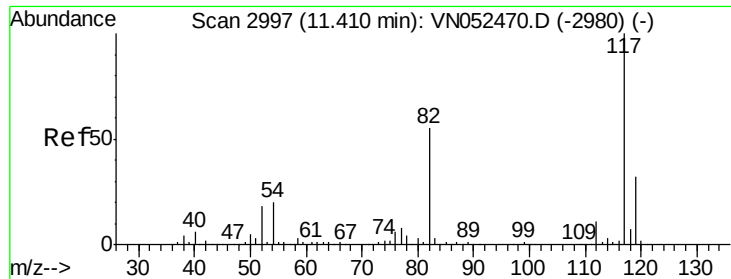
Ion Ratio Lower Upper

95 100

174 88.6 0.0 173.0

176 84.6 0.0 166.2





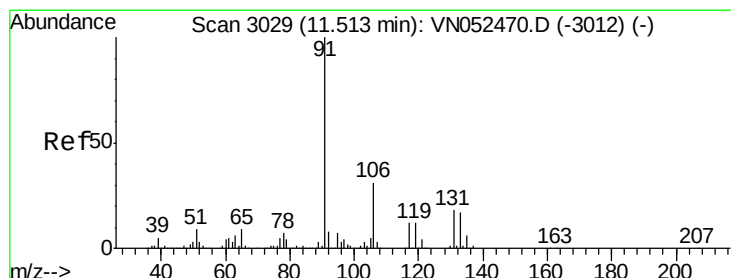
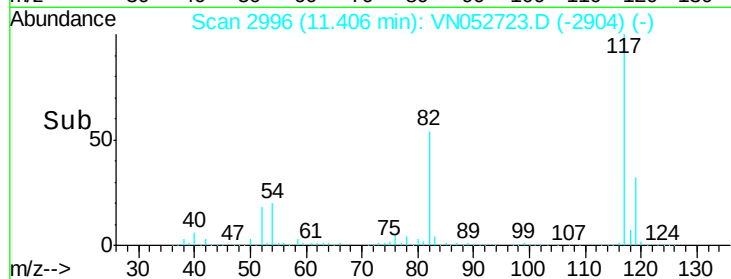
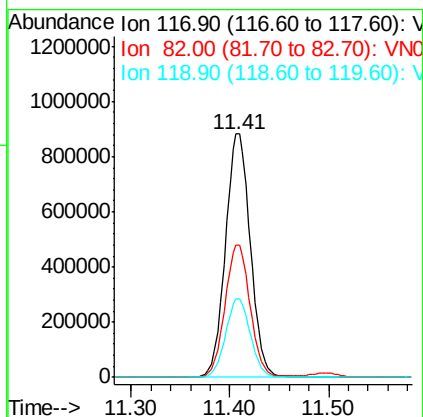
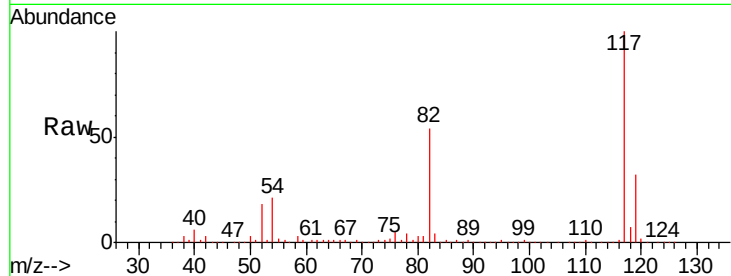
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052723.D
Acq: 7 Dec 2018 13:39

Instrument :
MSVOA_N
ClientSampled :
MW-4

Tgt Ion: 117 Resp: 1556700
Ion Ratio Lower Upper
117 100
82 54.4 43.6 65.4
119 32.2 25.4 38.2

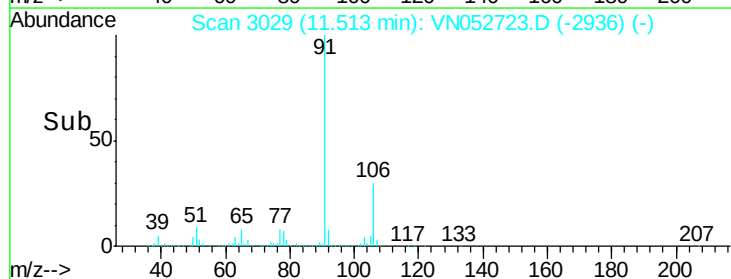
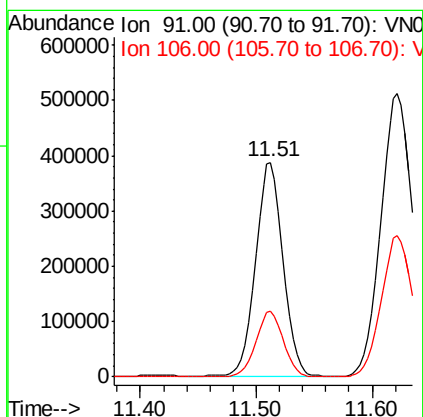
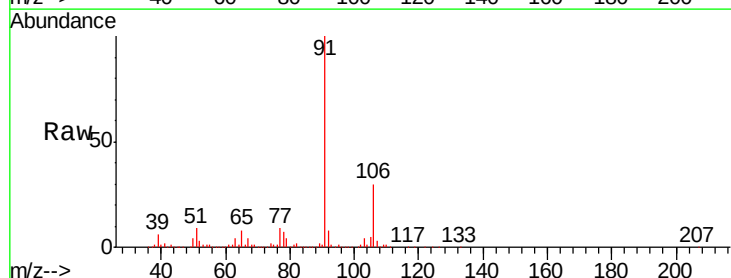
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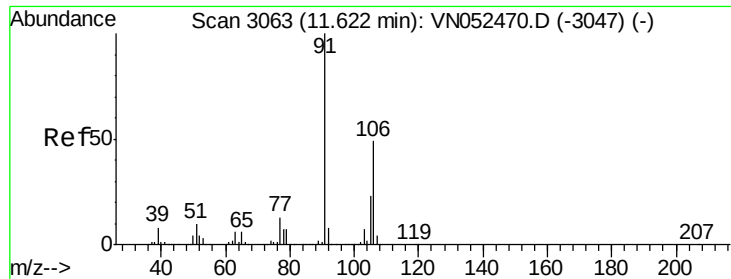
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#67
Ethyl Benzene
Concen: 11.406 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN052723.D
Acq: 7 Dec 2018 13:39

Tgt Ion: 91 Resp: 641170
Ion Ratio Lower Upper
91 100
106 30.5 24.9 37.3





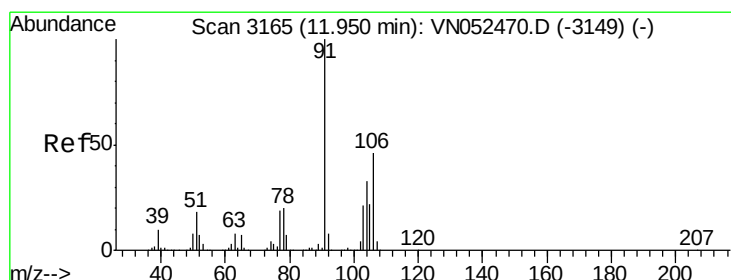
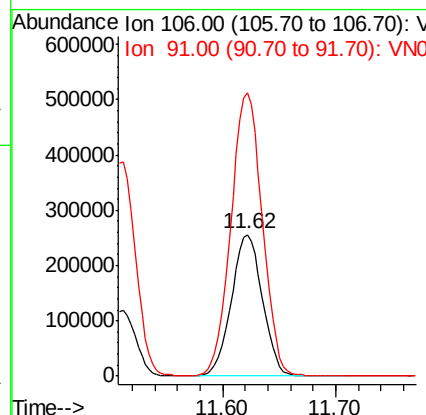
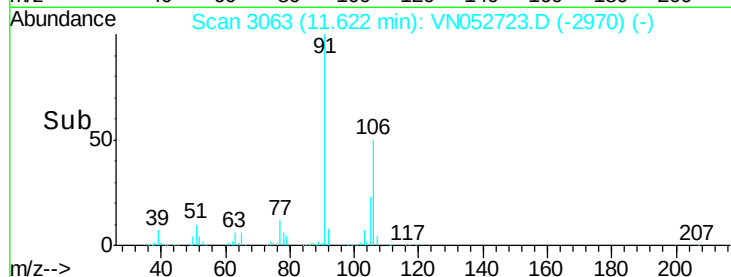
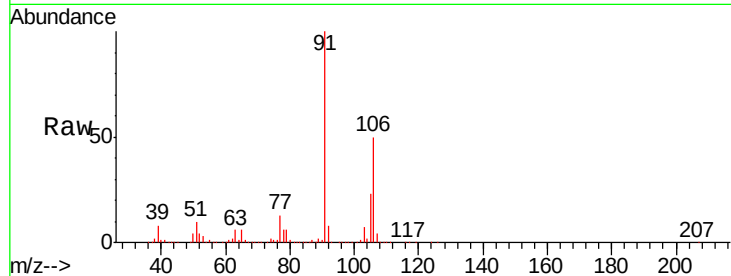
#68
m/p-Xylenes
Concen: 23.283 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN052723.D
Acq: 7 Dec 2018 13:39

Instrument :
MSVOA_N
ClientSampled :
MW-4

Tgt Ion:106 Resp: 487225
Ion Ratio Lower Upper
106 100
91 201.9 163.2 244.8

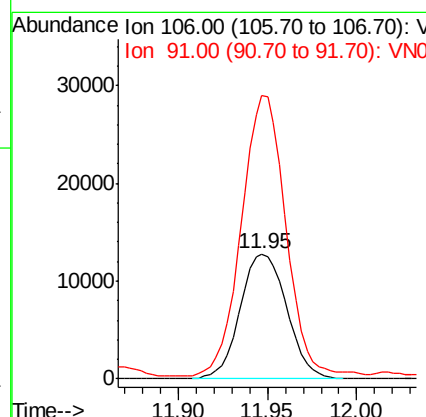
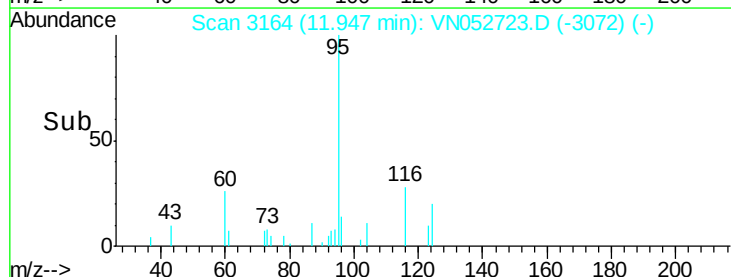
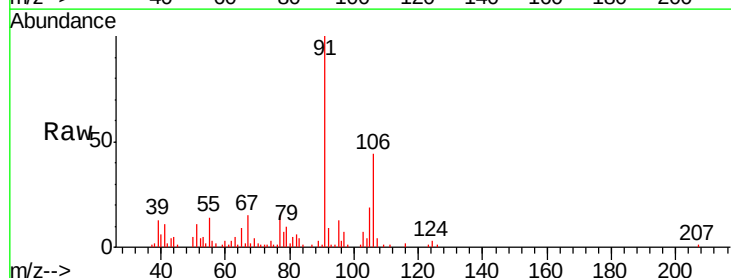
Manual Integrations
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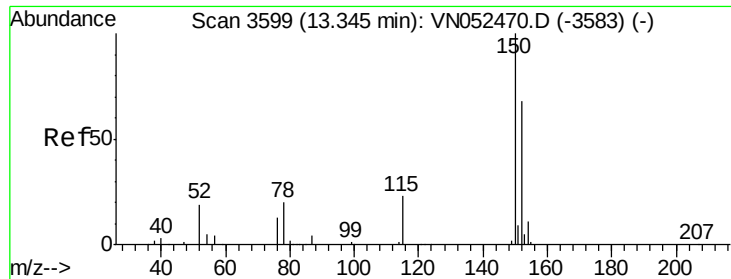
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#69
o-Xylene
Concen: 1.141 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN052723.D
Acq: 7 Dec 2018 13:39

Tgt Ion:106 Resp: 23190
Ion Ratio Lower Upper
106 100
91 212.6 107.7 323.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

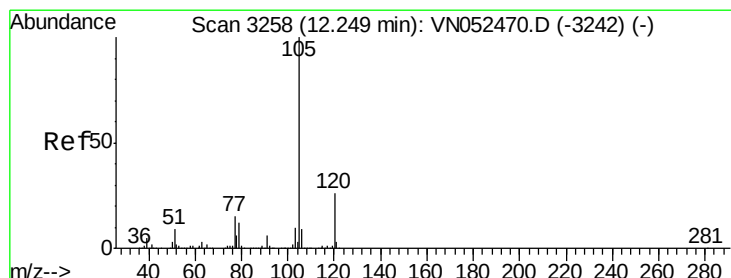
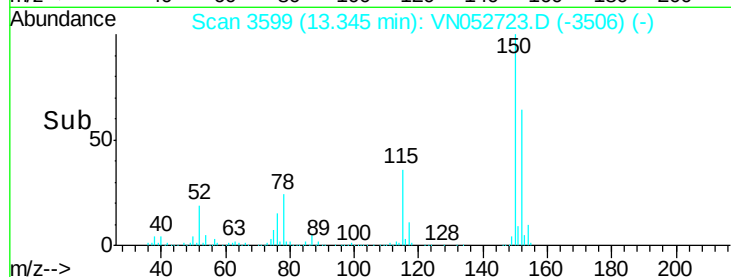
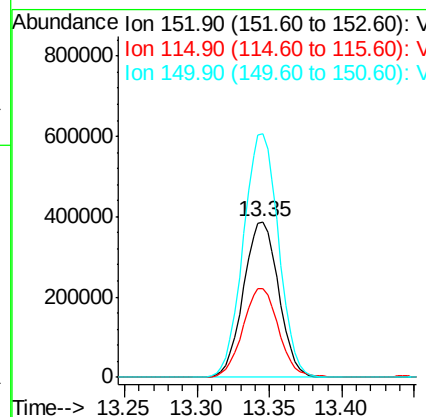
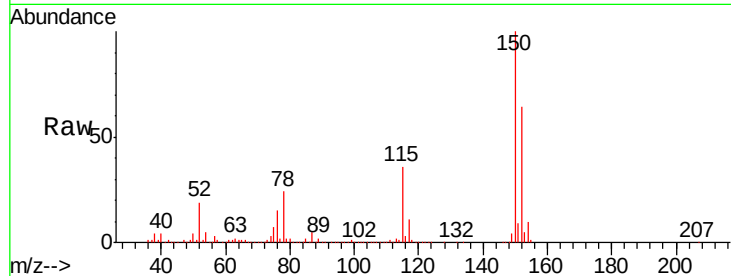
ClientSampled :

MW-4

Tgt Ion:	152	Resp:	653139
Ion Ratio	Lower	Upper	
152	100		
115	57.6	28.4	85.2
150	157.0	0.0	346.0

Manual Integrations
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#73

Isopropylbenzene

Concen: 83.187 ug/l

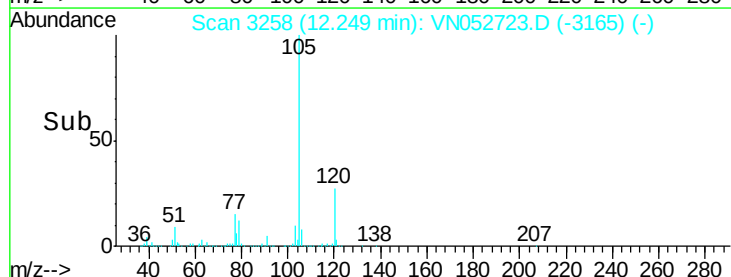
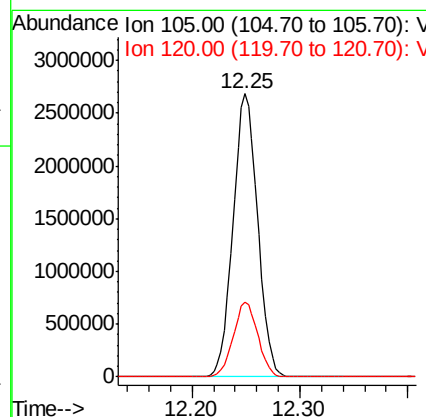
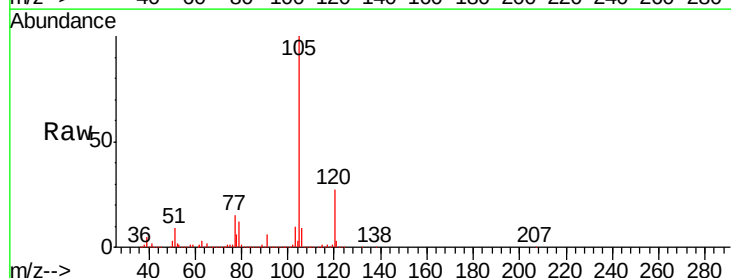
RT: 12.25 min Scan# 3258

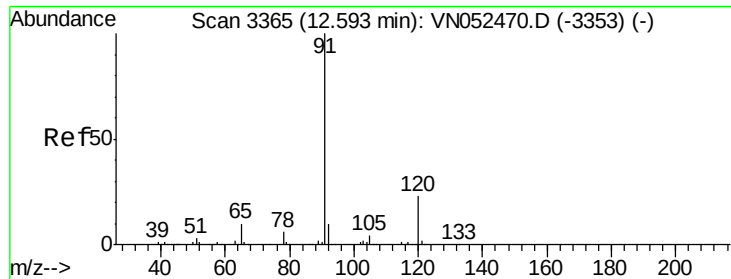
Delta R.T. 0.00 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Tgt Ion:	105	Resp:	4262722
Ion Ratio	Lower	Upper	
105	100		
120	26.4	13.1	39.3





#78

n-propylbenzene

Concen: 78.851 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

ClientSampled :

MW-4

Tgt Ion: 91 Resp: 4590246

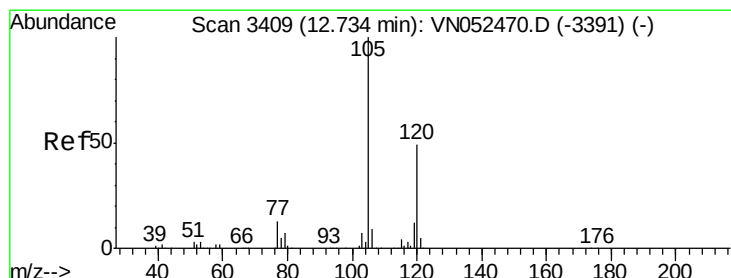
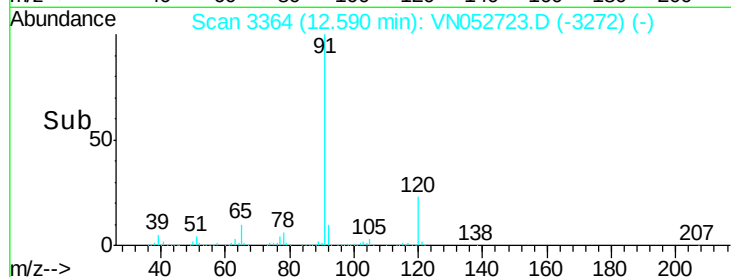
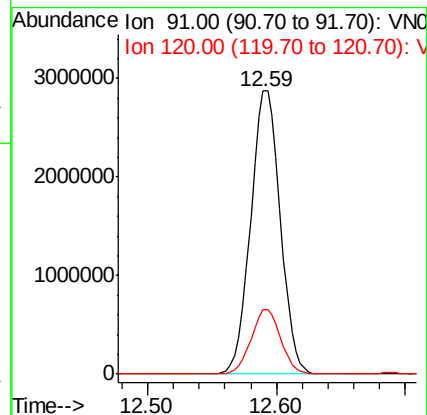
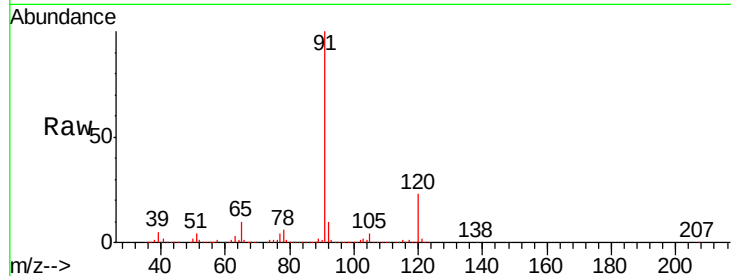
Ion Ratio Lower Upper

91 100

120 22.7 11.3 33.9

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 1.870 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052723.D

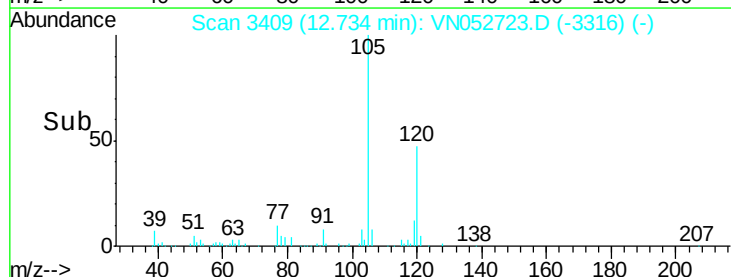
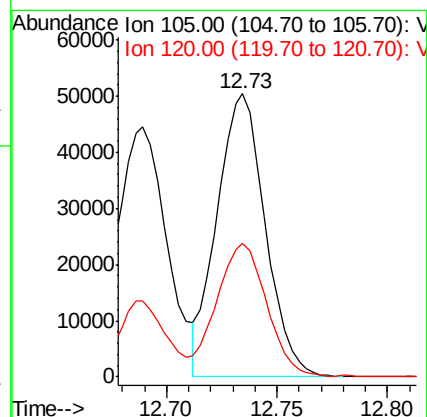
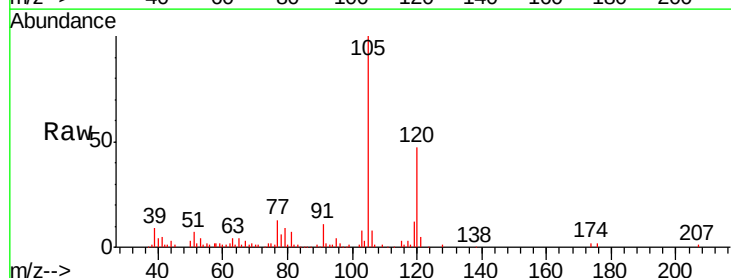
Acq: 7 Dec 2018 13:39

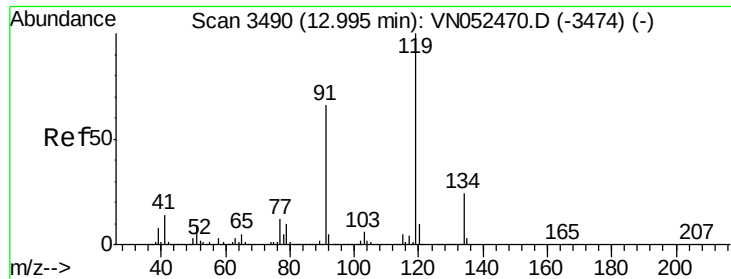
Tgt Ion: 105 Resp: 76414

Ion Ratio Lower Upper

105 100

120 48.6 24.3 73.0





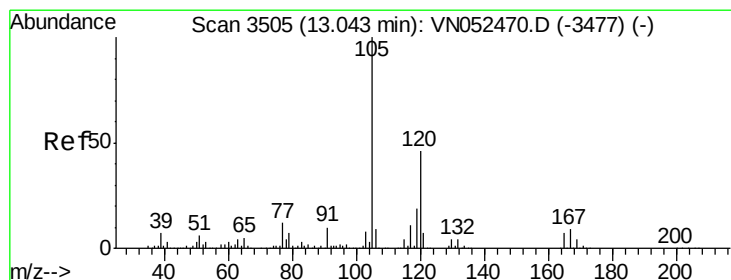
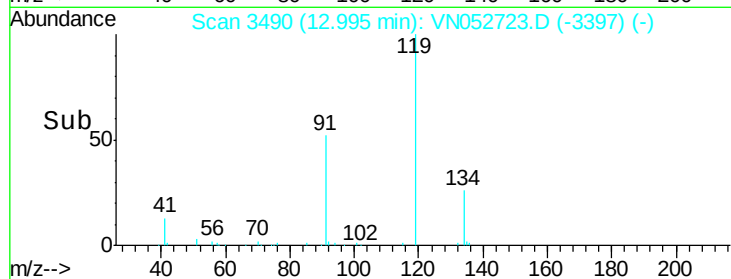
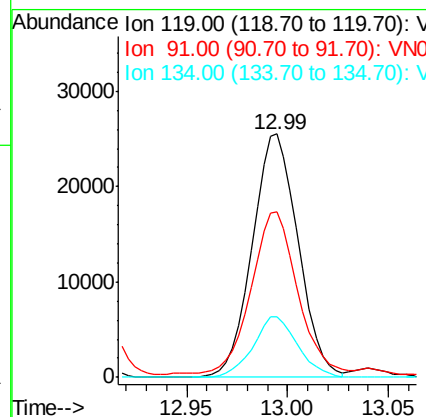
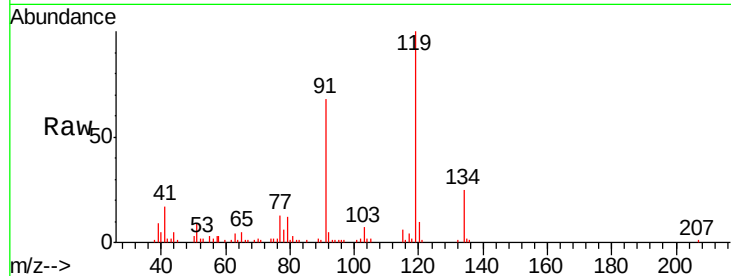
#83
 tert-Butylbenzene
 Concen: 1.115 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN052723.D
 Acq: 7 Dec 2018 13:39

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	40622		
91	67.8	32.3	96.9	
134	24.1	13.0	38.9	

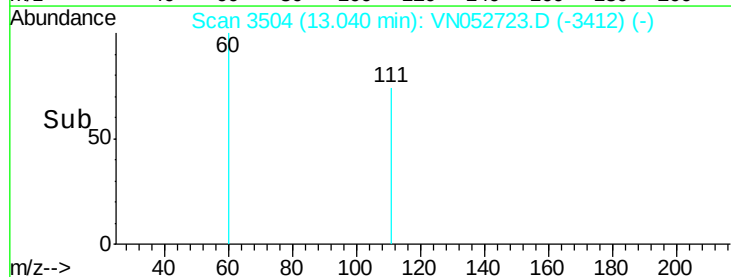
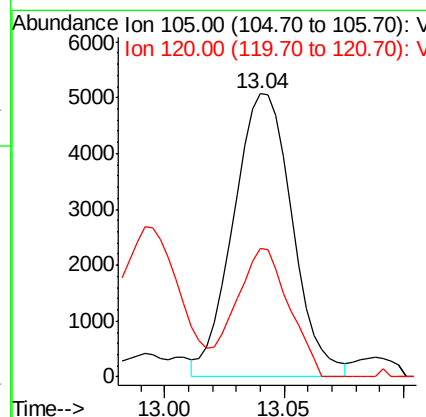
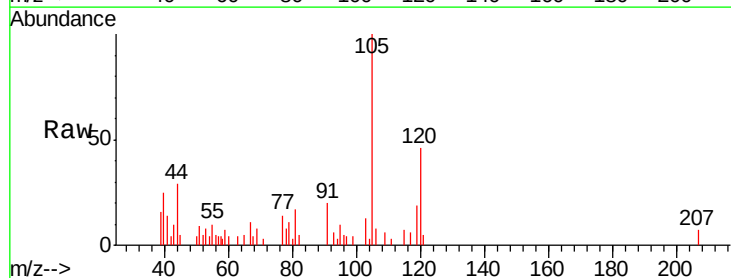
Manual Integrations
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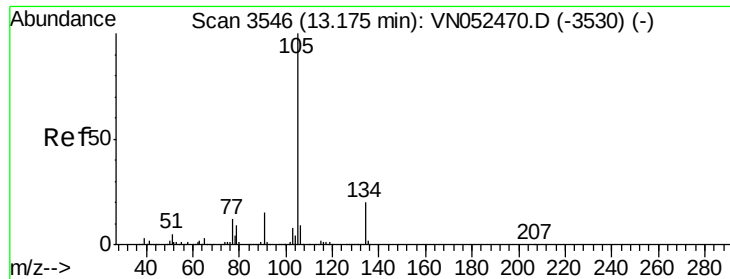
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 0.213 ug/l m
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN052723.D
 Acq: 7 Dec 2018 13:39

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	8729		
120	2608.1	22.8	68.4#	





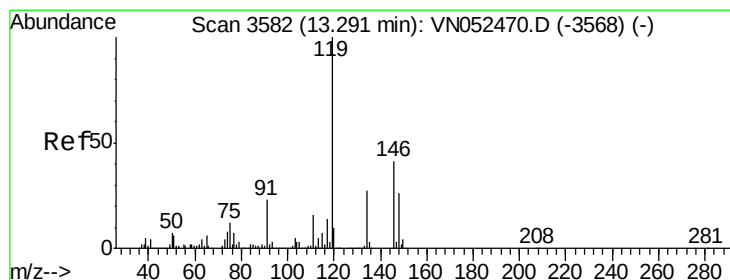
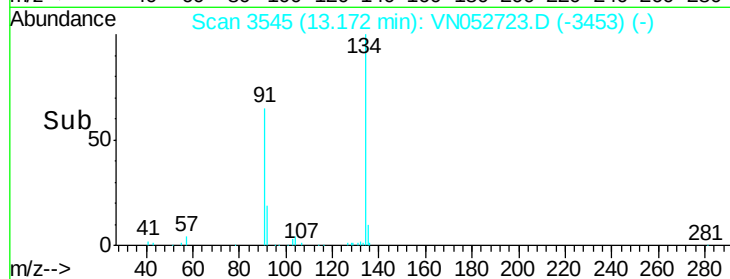
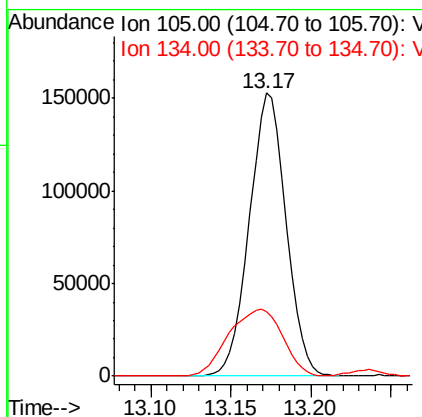
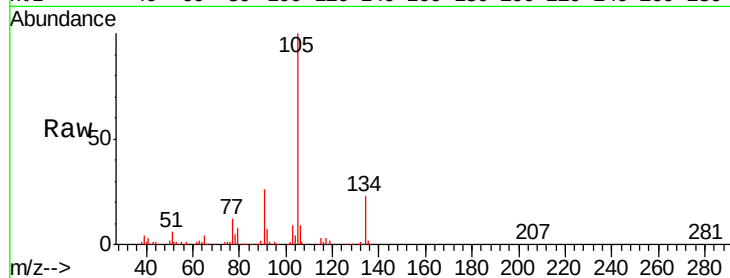
#85
 sec-Butylbenzene
 Concen: 4.829 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN052723.D
 Acq: 7 Dec 2018 13:39

Instrument :
 MSVOA_N
 ClientSampled :
 MW-4

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	239617		
134	34.9	9.9	29.7#	

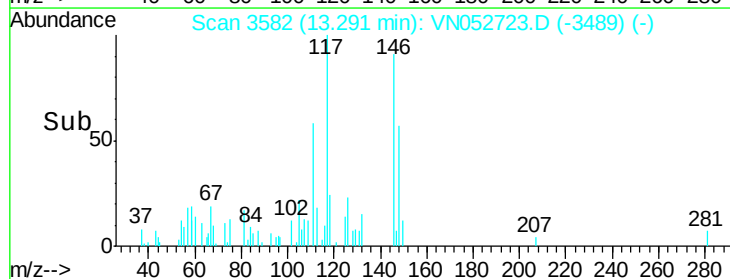
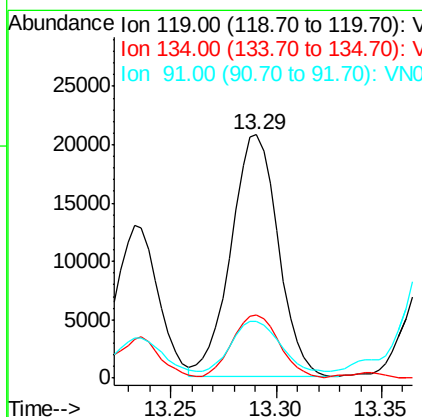
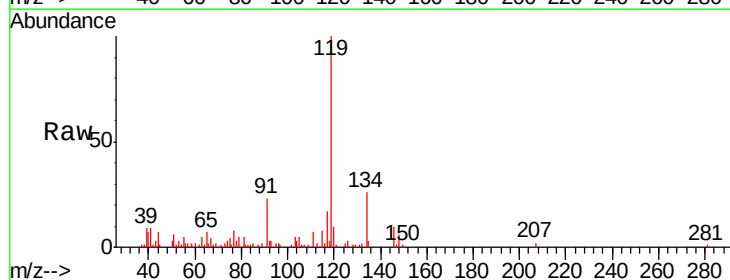
Manual Integrations
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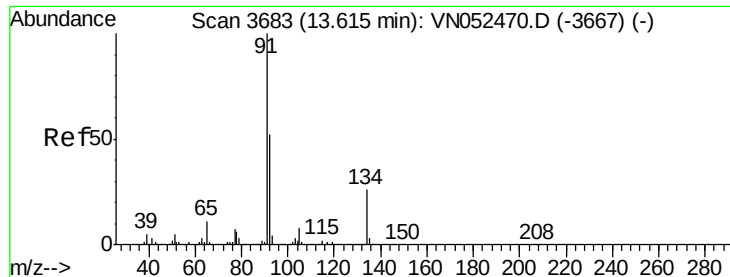
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#86
 p-Isopropyltoluene
 Concen: 0.760 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN052723.D
 Acq: 7 Dec 2018 13:39

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	32140		
134	26.4	13.4	40.2	
91	0.0	11.4	34.2#	





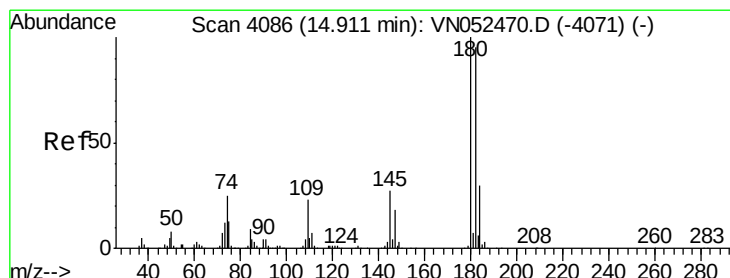
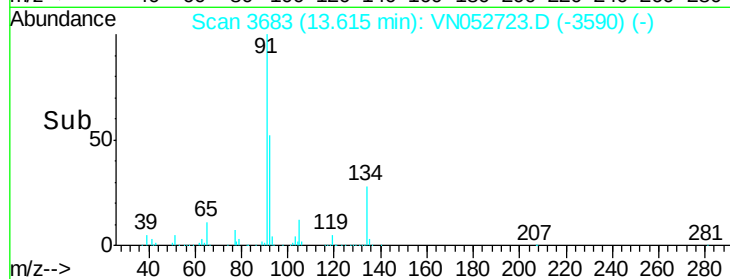
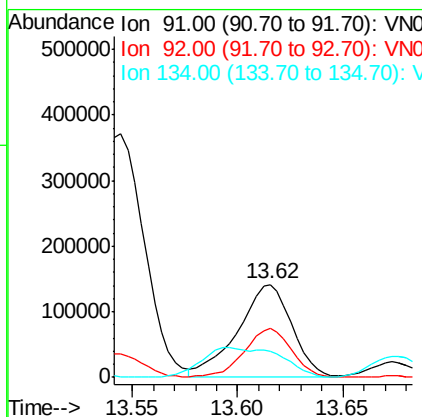
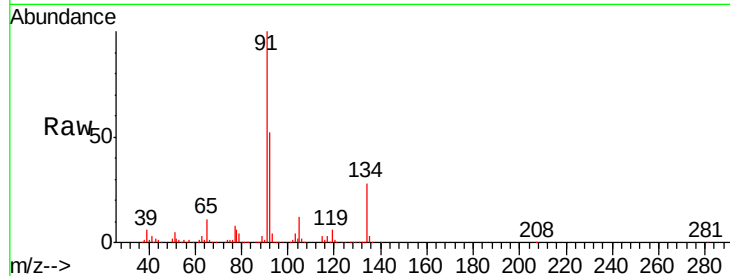
#89
n-Butylbenzene
Concen: 7.148 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN052723.D
Acq: 7 Dec 2018 13:39

Instrument :
MSVOA_N
ClientSampled :
MW-4

Tgt Ion	Ratio	Lower	Upper
91	100		
92	45.9	26.1	78.3
134	27.6	13.0	38.9

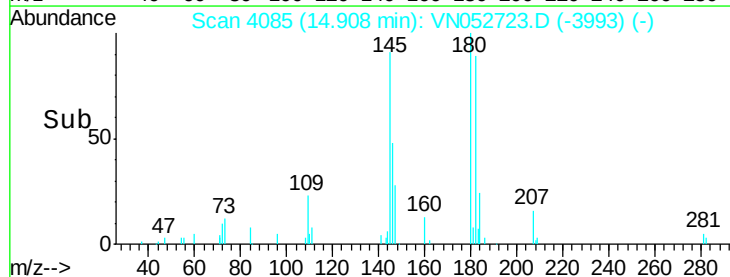
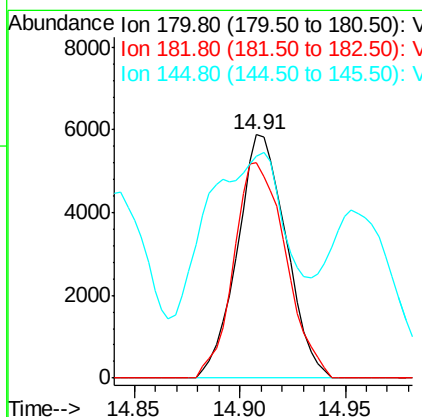
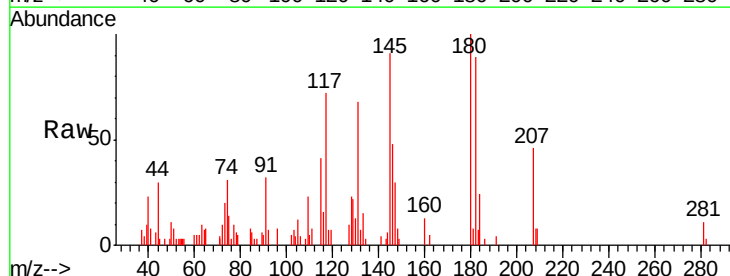
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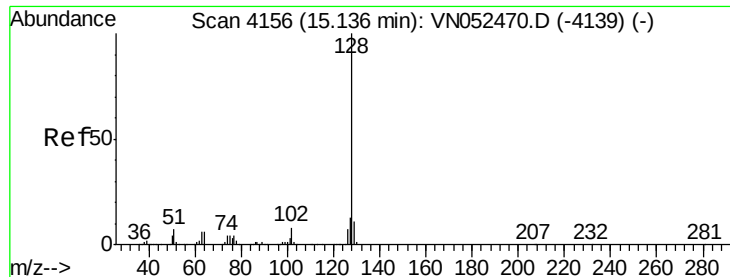
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#93
1,2,4-Trichlorobenzene
Concen: 3.601 ug/l
RT: 14.91 min Scan# 4085
Delta R.T. -0.00 min
Lab File: VN052723.D
Acq: 7 Dec 2018 13:39

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.8	143.4
145	166.1	14.1	42.3#





#95

Naphthalene

Concen: 5.604 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Instrument :

MSVOA_N

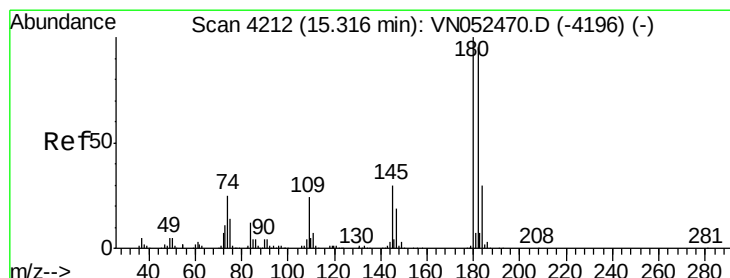
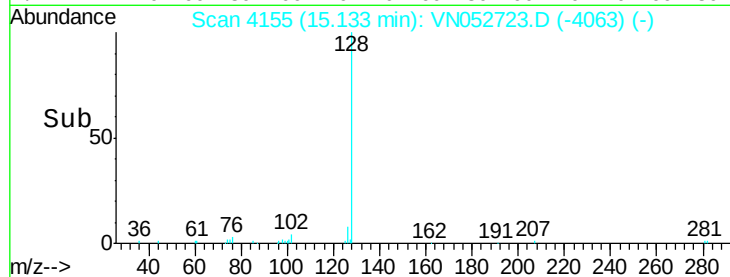
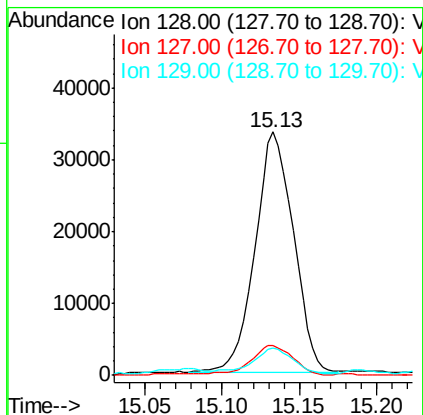
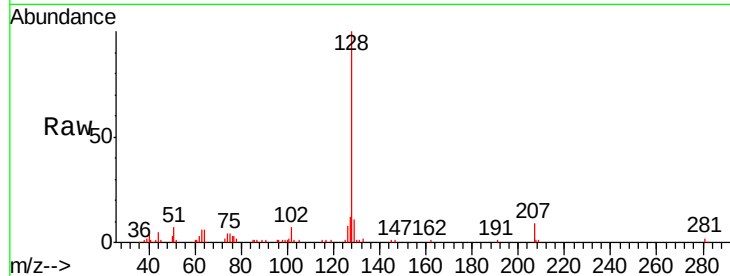
ClientSampled :

MW-4

Tgt Ion:	128	Resp:	57433
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.2	15.2
129	10.3	8.7	13.1

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 3.608 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN052723.D

Acq: 7 Dec 2018 13:39

Tgt Ion:	180	Resp:	9933
Ion Ratio	Lower	Upper	
180	100		
182	87.8	47.8	143.3
145	0.0	15.2	45.5#

