

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN120718\
 Data File : VN052732.D
 Acq On : 7 Dec 2018 17:39
 Operator : MD\SY
 Sample : J6019-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2

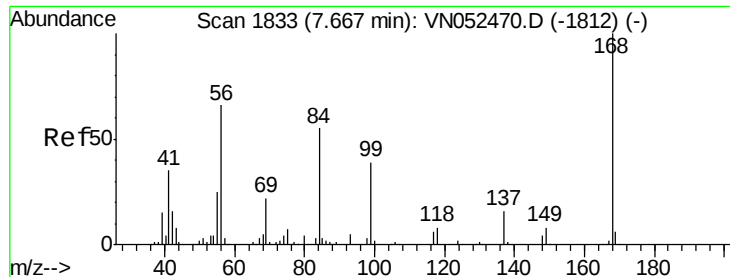
Manual Integrations
 APPROVED

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 12/10/2018 12:51:08 PM

Quant Time: Dec 10 11:36:16 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	1168797	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1784902	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1559931	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	650958	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	606889	47.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.38%	
35) Dibromofluoromethane	7.59	113	546820	49.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.38%	
50) Toluene-d8	10.09	98	2194083	51.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.44%	
62) 4-Bromofluorobenzene	12.40	95	726142	50.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.90%	
Target Compounds						
					Qvalue	
31) Cyclohexane	7.65	56	2187939	100.252	ug/l	99
39) Methylcyclohexane	9.08	83	1611969	78.683	ug/l	99
40) Benzene	8.04	78	663162	13.202	ug/l	98
52) Toluene	10.16	92	213429	7.151	ug/l	99
67) Ethyl Benzene	11.51	91	2217495	39.368	ug/l	100
68) m/p-Xylenes	11.63	106	683456	32.593	ug/l	100
69) o-Xylene	11.95	106	37039	1.819	ug/l	98
73) Isopropylbenzene	12.25	105	6554130	128.332	ug/l	99
78) n-propylbenzene	12.59	91	4858630	83.741	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	44203m	1.085	ug/l	
83) tert-Butylbenzene	12.99	119	88312	2.432	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	21204m	0.519	ug/l	
85) sec-Butylbenzene	13.17	105	302827	6.123	ug/l #	65
86) p-Isopropyltoluene	13.29	119	131489	3.121	ug/l #	78
89) n-Butylbenzene	13.62	91	306712m	8.755	ug/l	
95) Naphthalene	15.13	128	205198	11.227	ug/l	99

(#) = 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: VN052732.D

Acq: 7 Dec 2018 17:39

Instrument :

MSVOA_N

ClientSampleId :

MW-2

Tgt Ion:168 Resp: 1168797

Ion Ratio Lower Upper

168 100

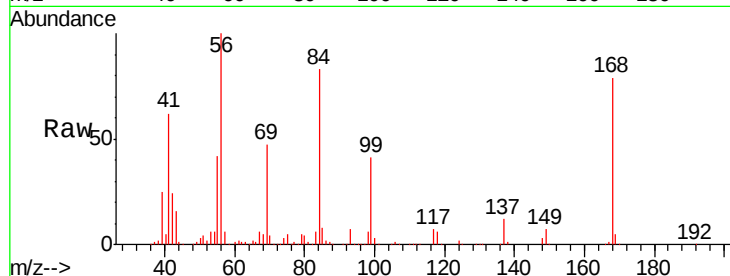
99 51.4 41.7 62.5

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

500000

400000

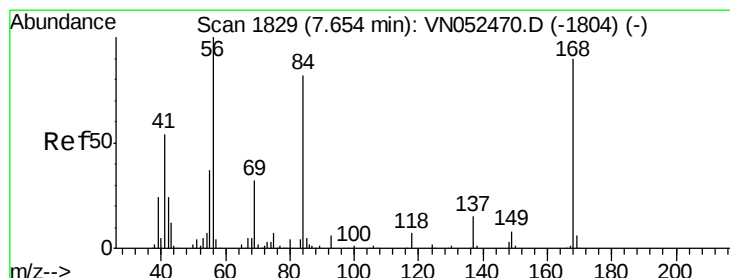
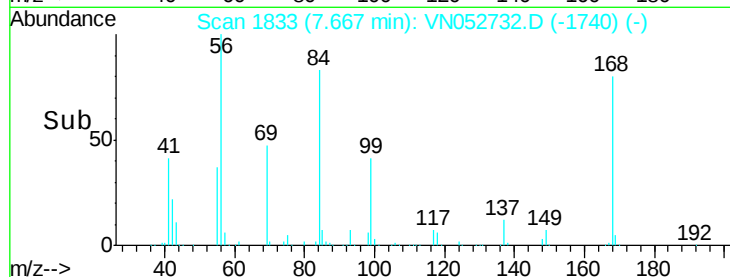
300000

200000

100000

0

Time-->



#31

Cyclohexane

Concen: 100.252 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN052732.D

Acq: 7 Dec 2018 17:39

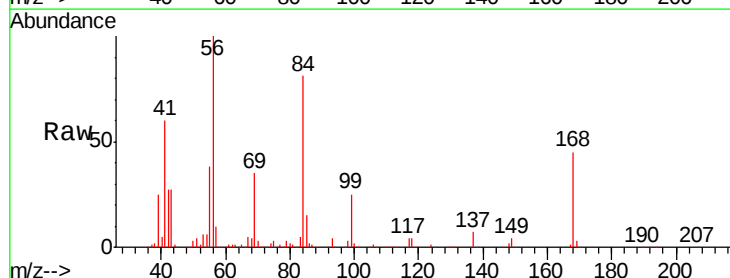
Tgt Ion: 56 Resp: 2187939

Ion Ratio Lower Upper

56 100

69 33.0 25.8 38.6

84 81.0 65.3 97.9



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 69.00 (68.70 to 69.70): VN

Ion 84.00 (83.70 to 84.70): VN

7.65

1000000

800000

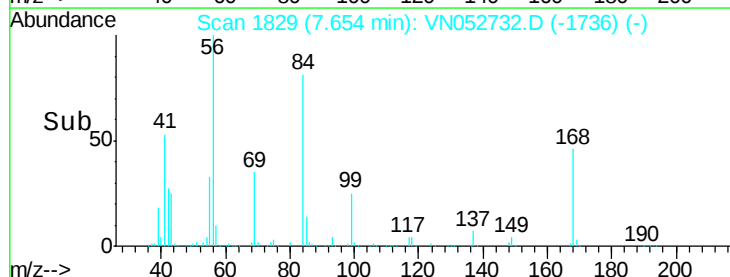
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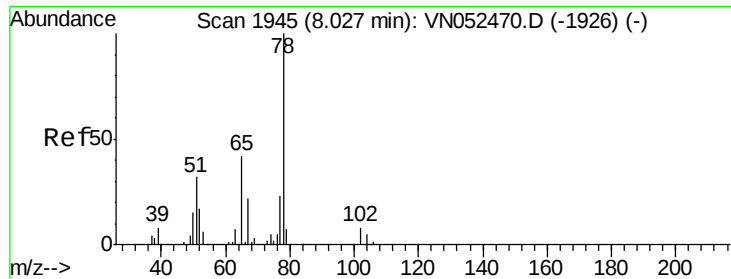
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Time-->





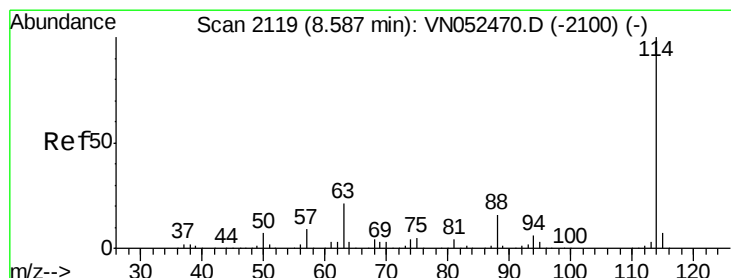
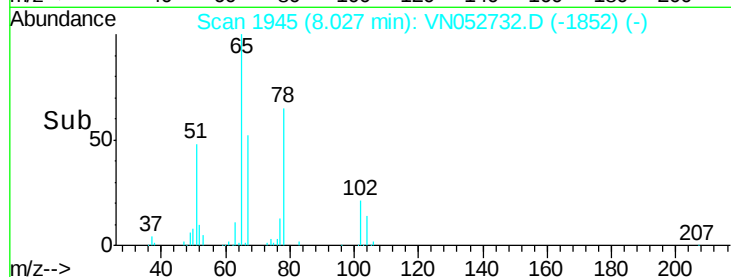
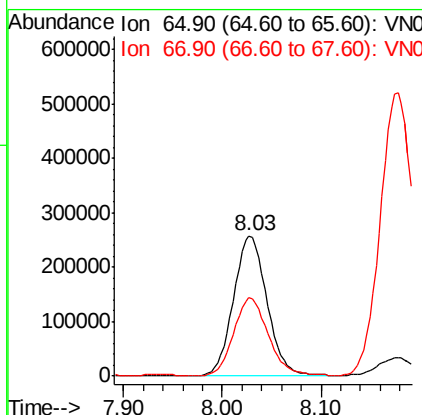
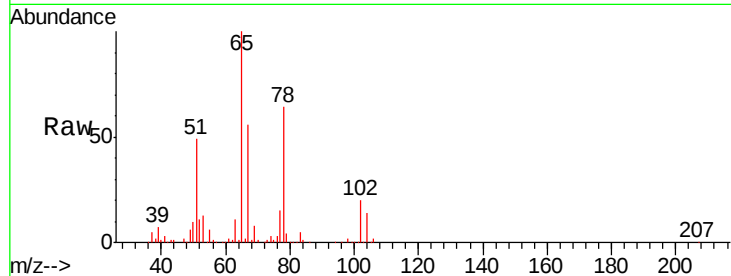
#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052732.D
 Acq: 7 Dec 2018 17:39

Instrument :
 MSVOA_N
 ClientSampled :
 MW-2

Tgt Ion: 65 Resp: 606889
 Ion Ratio Lower Upper
 65 100
 67 57.7 0.0 109.8

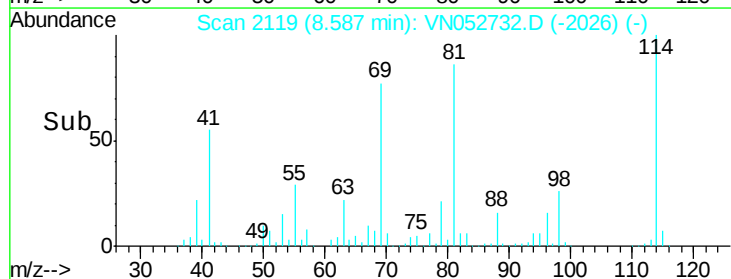
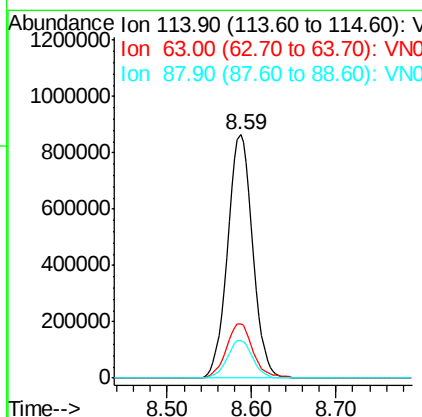
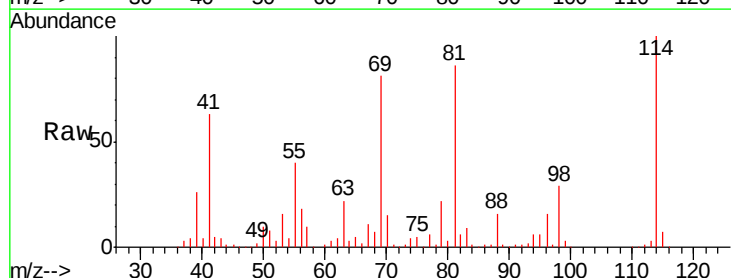
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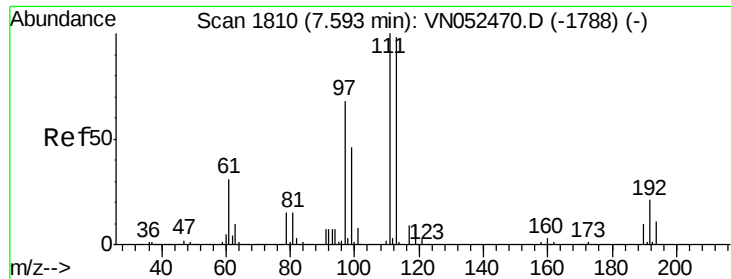
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052732.D
 Acq: 7 Dec 2018 17:39

Tgt Ion: 114 Resp: 1784902
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 41.8
 88 15.6 0.0 31.6





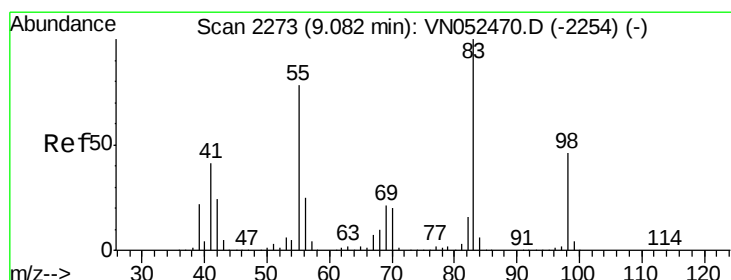
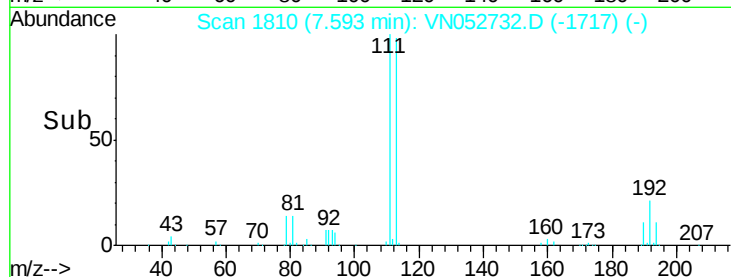
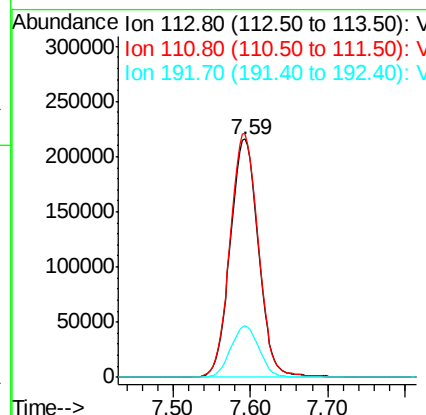
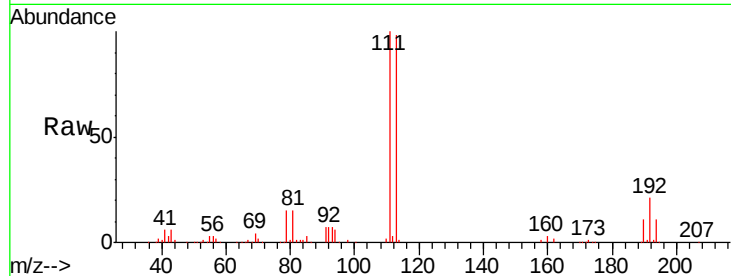
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. -0.00 min
Lab File: VN052732.D
Acq: 7 Dec 2018 17:39

Instrument :
MSVOA_N
ClientSampled :
MW-2

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	546820		
111	102.4	82.0	123.0	
192	21.6	17.0	25.6	

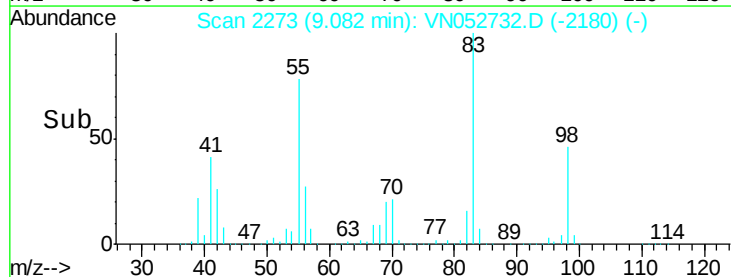
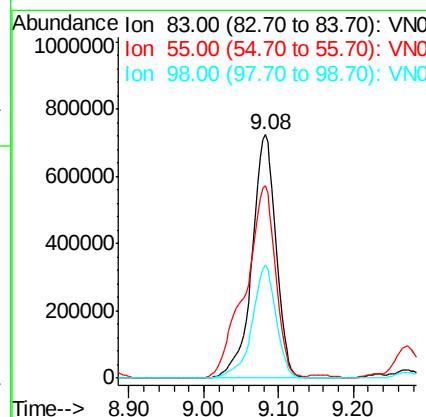
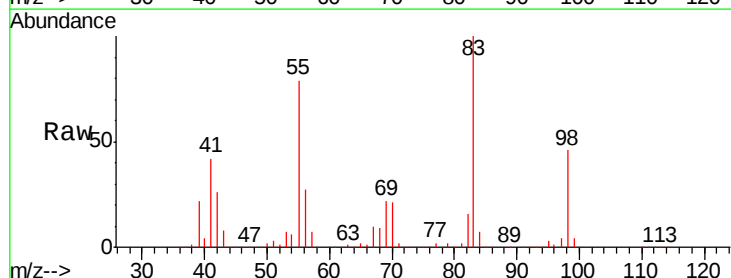
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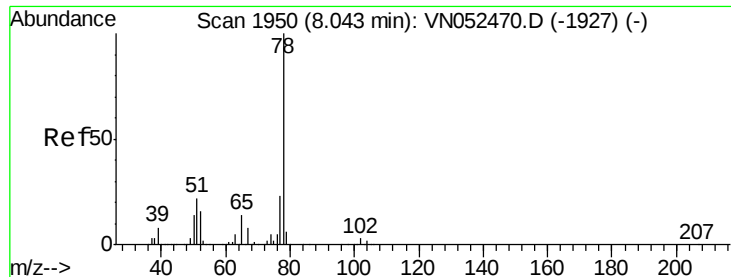
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#39
Methylcyclohexane
Concen: 78.683 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN052732.D
Acq: 7 Dec 2018 17:39

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	1611969		
55	79.1	62.2	93.2	
98	46.2	36.4	54.6	





#40

Benzene

Concen: 13.202 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. -0.00 min

Lab File: VN052732.D

Acq: 7 Dec 2018 17:39

Instrument :

MSVOA_N

ClientSampleId :

MW-2

Tgt Ion: 78 Resp: 663162

Ion Ratio Lower Upper

78 100

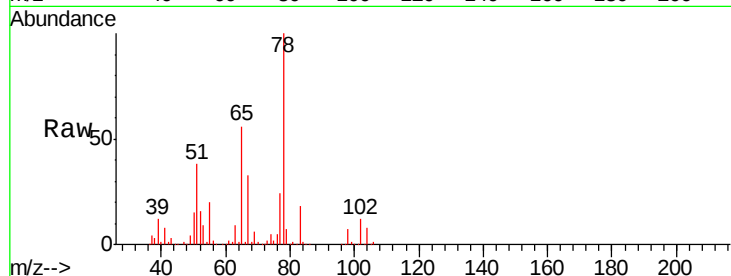
77 24.3 18.8 28.2

Manual Integrations

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Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

8.04

300000

250000

200000

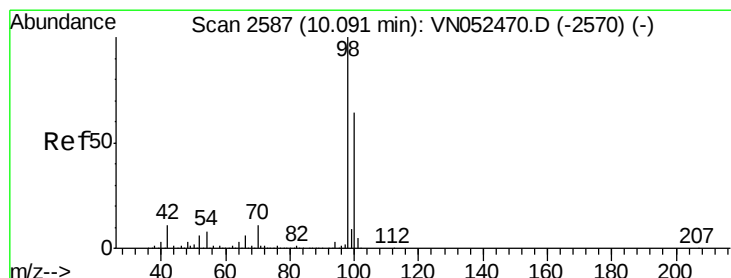
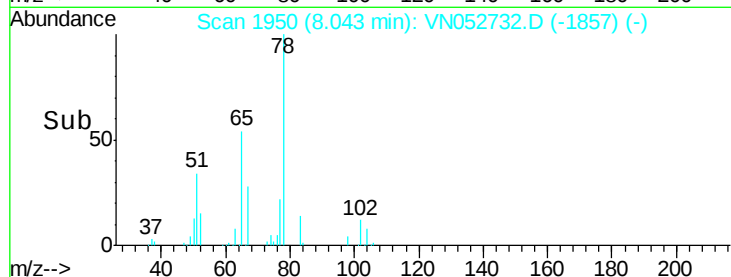
150000

100000

50000

0

Time-->



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052732.D

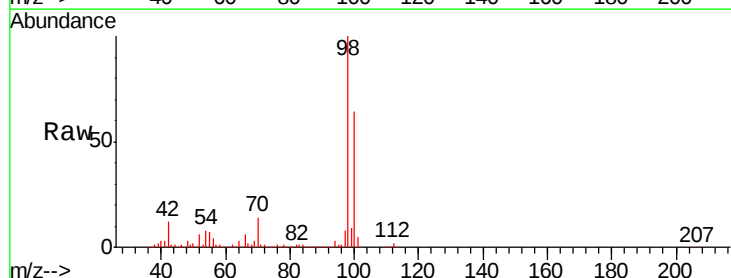
Acq: 7 Dec 2018 17:39

Tgt Ion: 98 Resp: 2194083

Ion Ratio Lower Upper

98 100

100 63.8 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

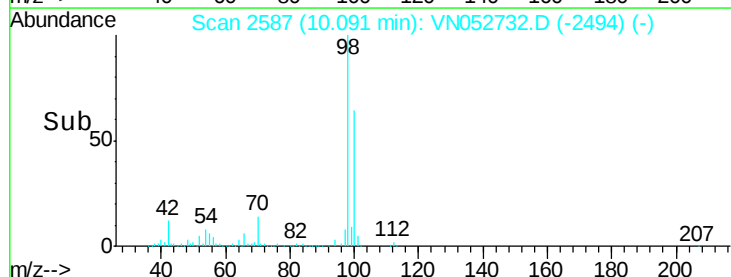
10.09

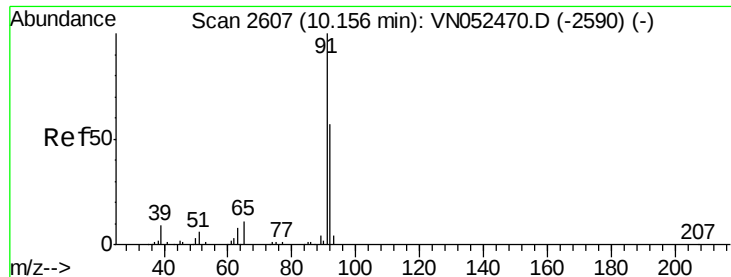
1000000

500000

0

Time-->





#52

Toluene

Concen: 7.151 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN052732.D

Acq: 7 Dec 2018 17:39

Instrument :

MSVOA_N

ClientSampled :

MW-2

Tgt Ion: 92 Resp: 213429

Ion Ratio Lower Upper

92 100

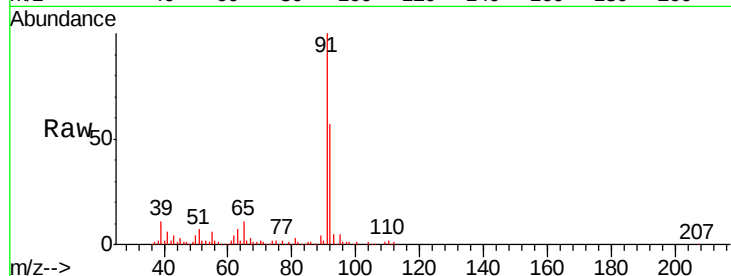
91 175.3 141.0 211.4

Manual Integrations

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Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

200000

150000

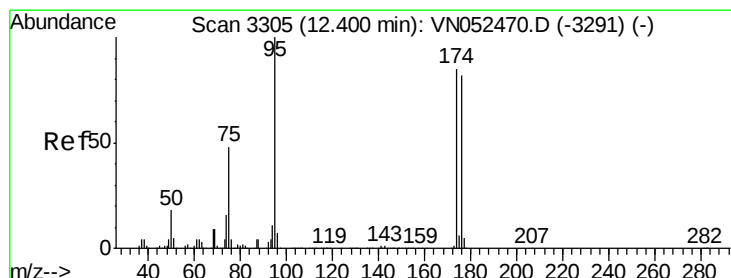
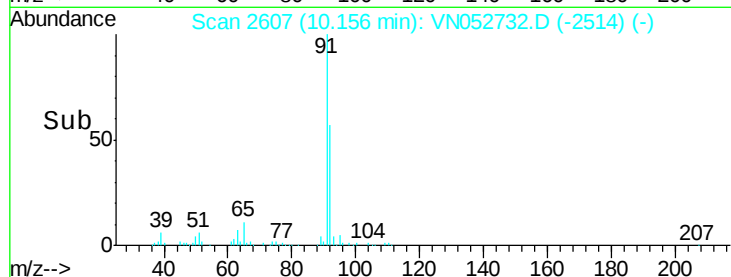
100000

50000

0

10.16

Time-->



#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052732.D

Acq: 7 Dec 2018 17:39

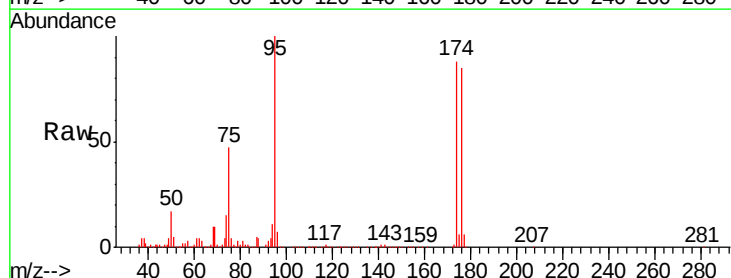
Tgt Ion: 95 Resp: 726142

Ion Ratio Lower Upper

95 100

174 86.3 0.0 173.0

176 83.4 0.0 166.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

600000

500000

400000

300000

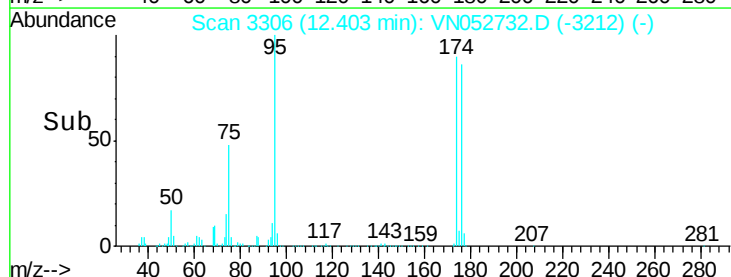
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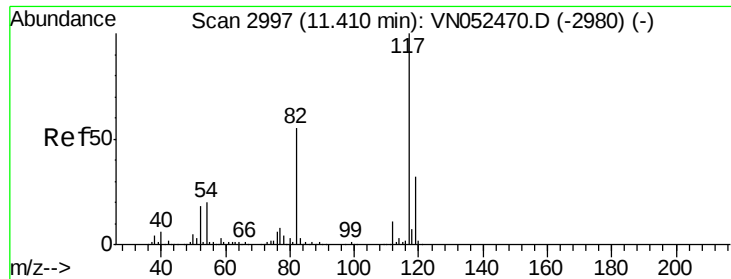
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0

12.40

Time-->





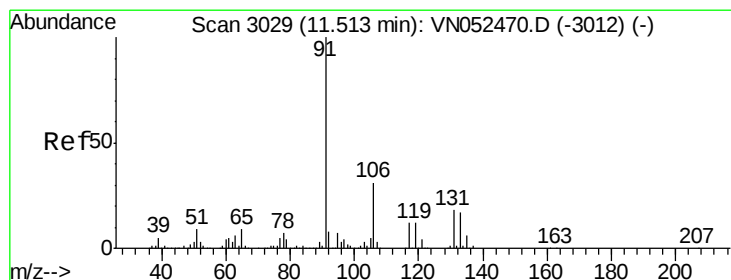
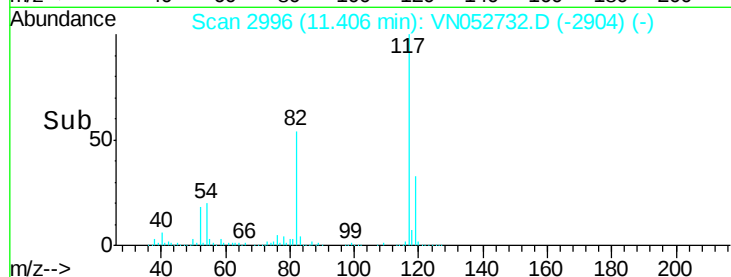
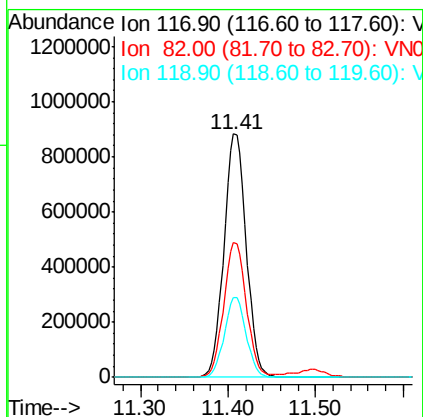
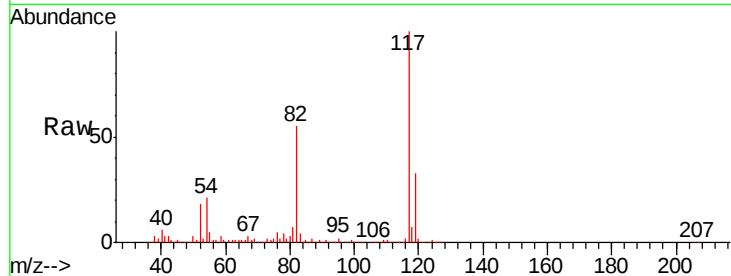
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052732.D
Acq: 7 Dec 2018 17:39

Instrument :
MSVOA_N
ClientSampled :
MW-2

Tgt Ion: 117 Resp: 1559931
Ion Ratio Lower Upper
117 100
82 55.2 43.6 65.4
119 32.5 25.4 38.2

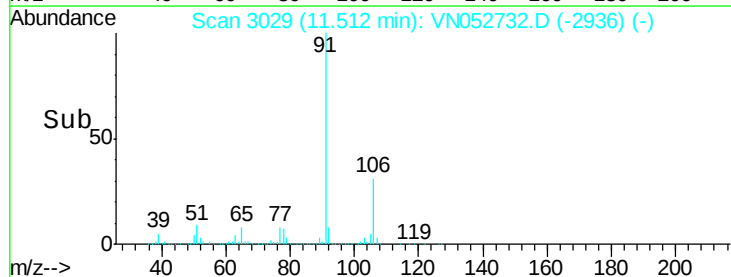
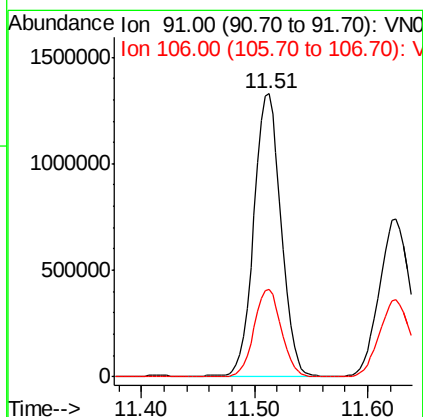
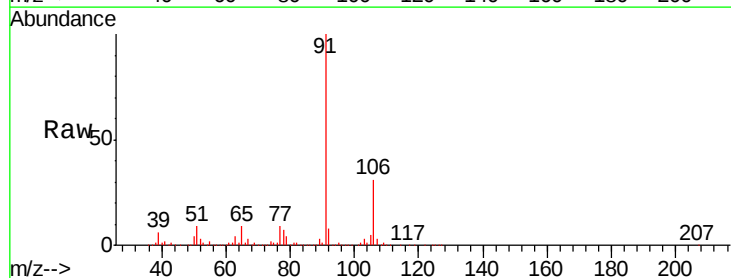
Manual Integrations
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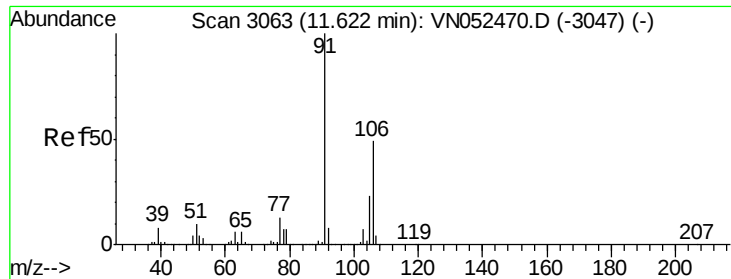
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#67
Ethyl Benzene
Concen: 39.368 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. -0.00 min
Lab File: VN052732.D
Acq: 7 Dec 2018 17:39

Tgt Ion: 91 Resp: 2217495
Ion Ratio Lower Upper
91 100
106 31.2 24.9 37.3





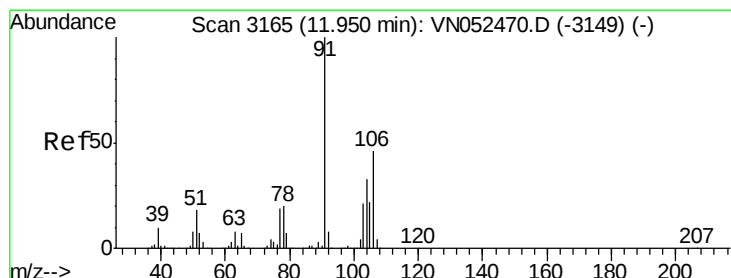
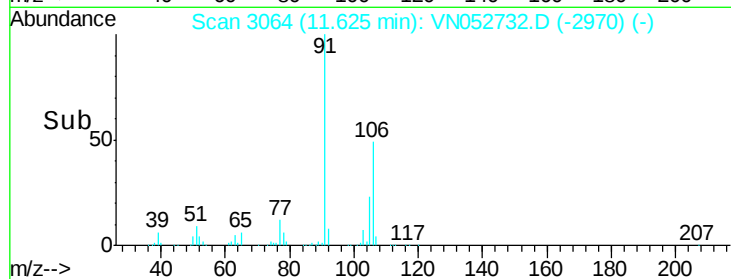
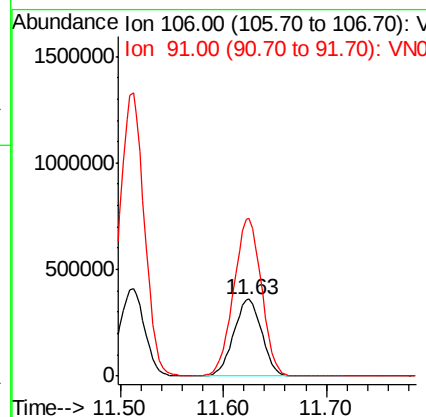
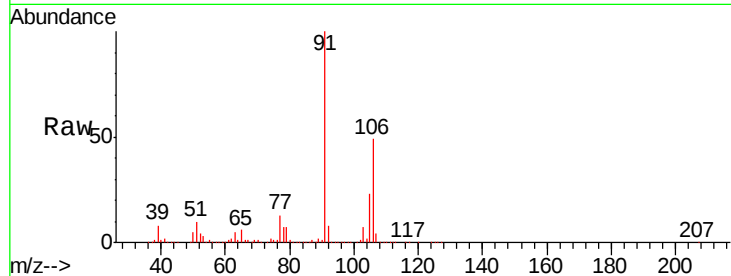
#68
m/p-Xylenes
Concen: 32.593 ug/l
RT: 11.63 min Scan# 3064
Delta R.T. 0.00 min
Lab File: VN052732.D
Acq: 7 Dec 2018 17:39

Instrument :
MSVOA_N
ClientSampleId :
MW-2

Tgt Ion:106 Resp: 683456
Ion Ratio Lower Upper
106 100
91 203.3 163.2 244.8

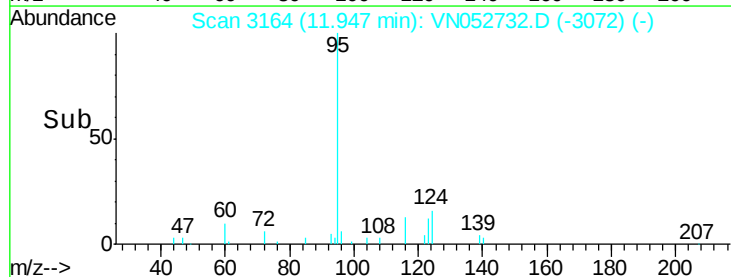
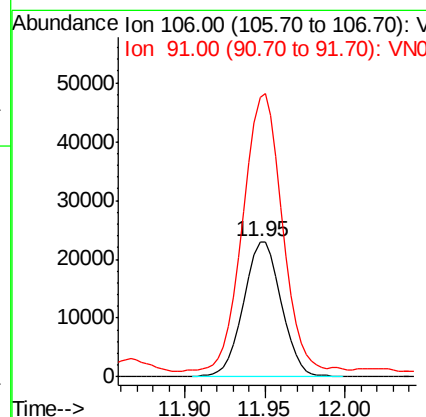
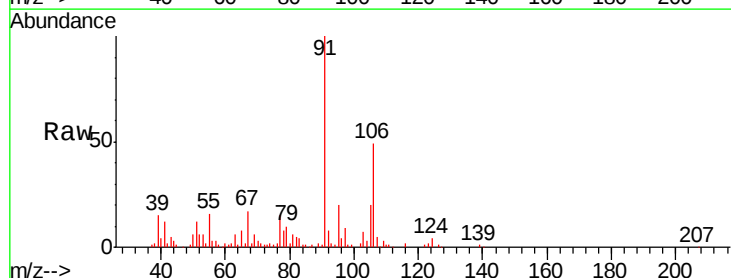
Manual Integrations
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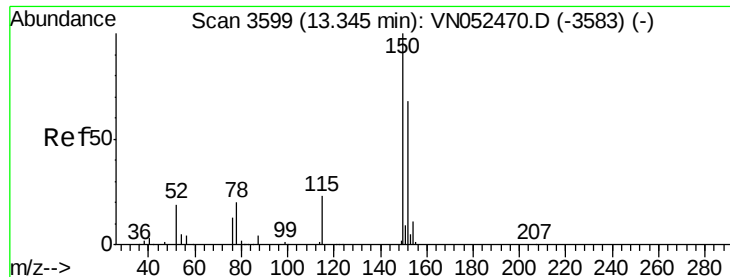
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#69
o-Xylene
Concen: 1.819 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN052732.D
Acq: 7 Dec 2018 17:39

Tgt Ion:106 Resp: 37039
Ion Ratio Lower Upper
106 100
91 212.4 107.7 323.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN052732.D

Acq: 7 Dec 2018 17:39

Instrument :

MSVOA_N

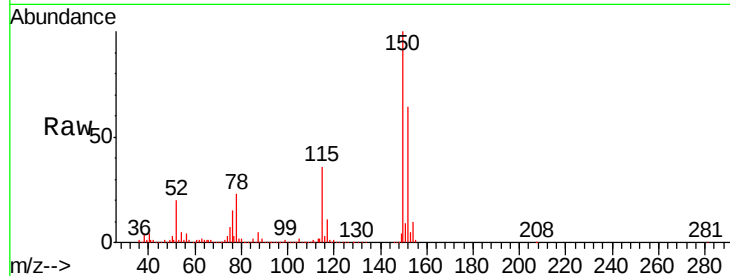
ClientSampleId :

MW-2

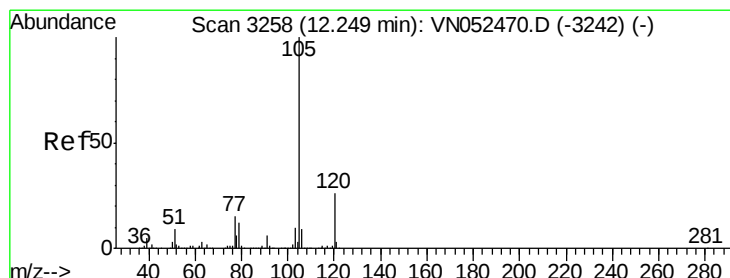
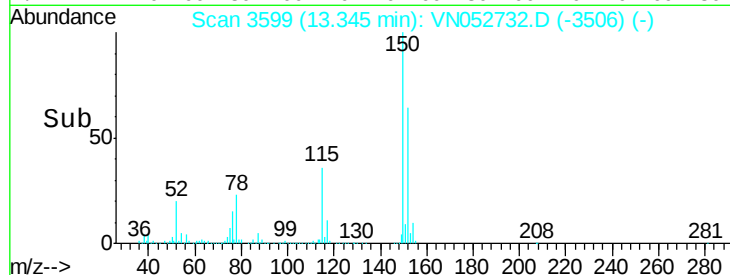
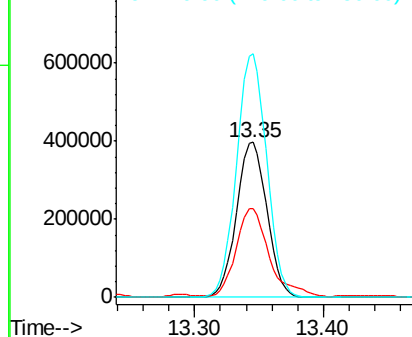
Tgt	Ion	152	Resp:	650958
	Ion	Ratio	Lower	Upper
	152	100		
	115	60.9	28.4	85.2
	150	156.0	0.0	346.0

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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: 128.332 ug/l

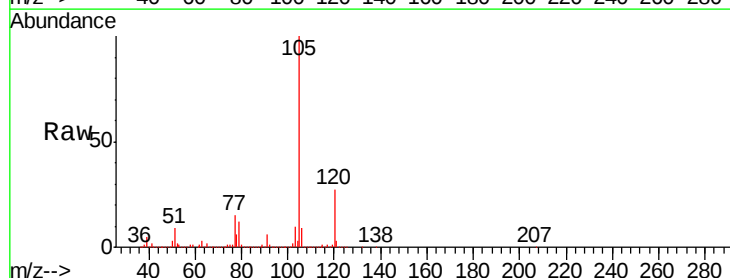
RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

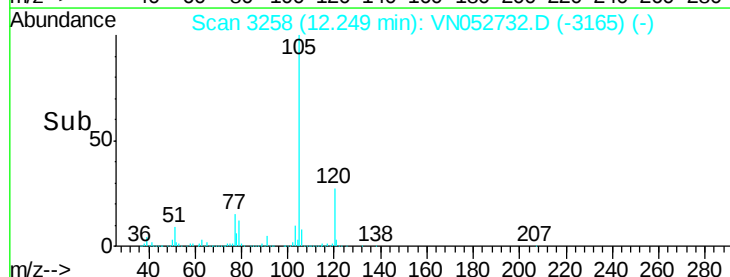
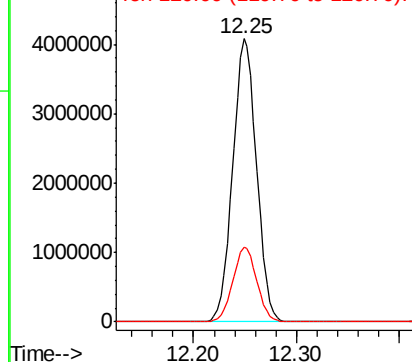
Lab File: VN052732.D

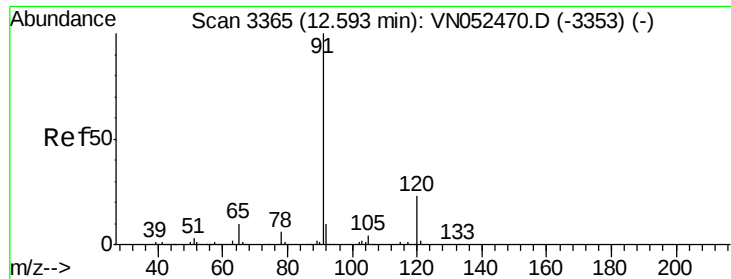
Acq: 7 Dec 2018 17:39

Tgt	Ion	105	Resp:	6554130
	Ion	Ratio	Lower	Upper
	105	100		
	120	26.6	13.1	39.3



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





#78

n-propylbenzene

Concen: 83.741 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. -0.00 min

Lab File: VN052732.D

Acq: 7 Dec 2018 17:39

Instrument :

MSVOA_N

ClientSampleId :

MW-2

Tgt Ion: 91 Resp: 4858630

Ion Ratio Lower Upper

91 100

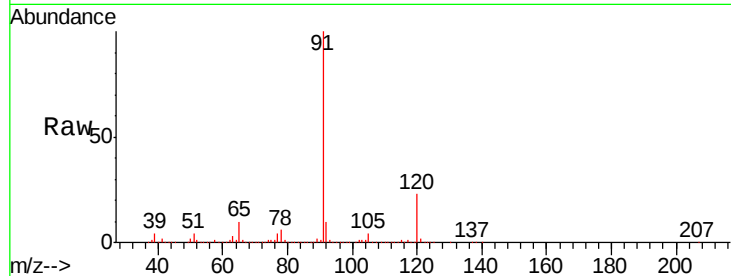
120 22.8 11.3 33.9

Manual Integrations

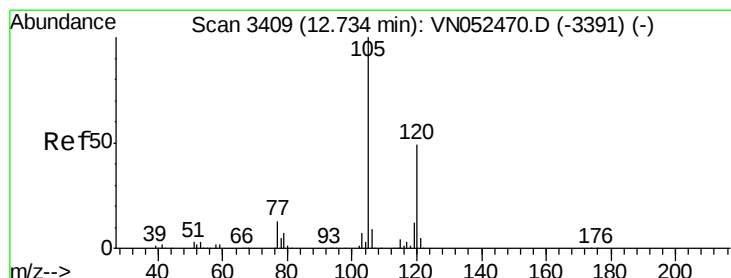
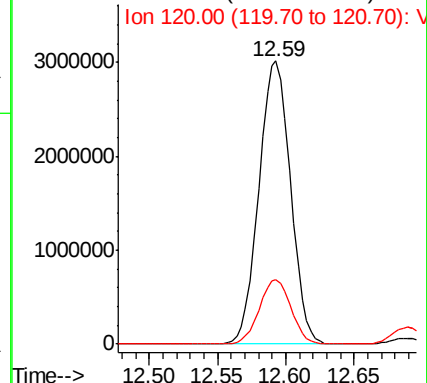
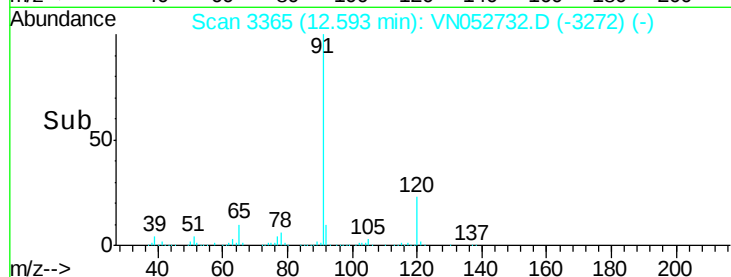
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Abundance Ion 91.00 (90.70 to 91.70): VN052732.D (-3272) (-)



#80

1,3,5-Trimethylbenzene

Concen: 1.085 ug/l m

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN052732.D

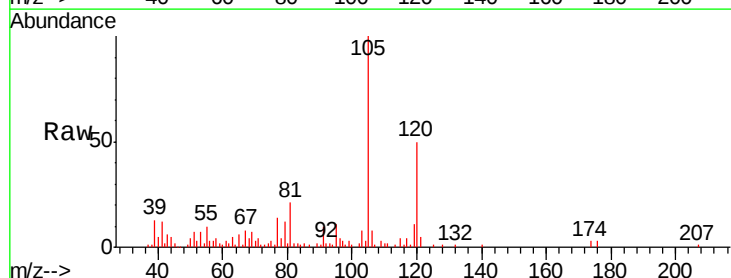
Acq: 7 Dec 2018 17:39

Tgt Ion: 105 Resp: 44203

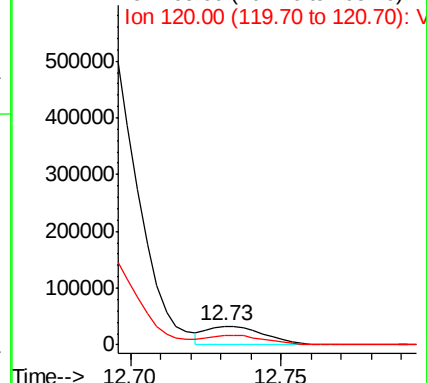
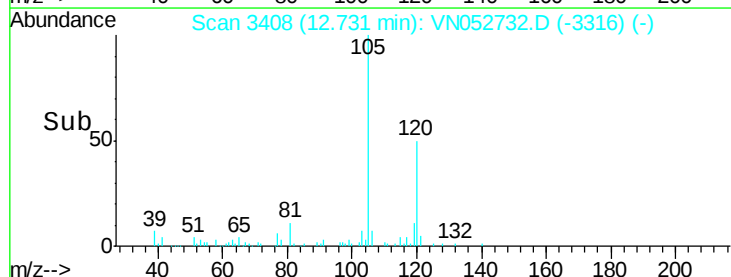
Ion Ratio Lower Upper

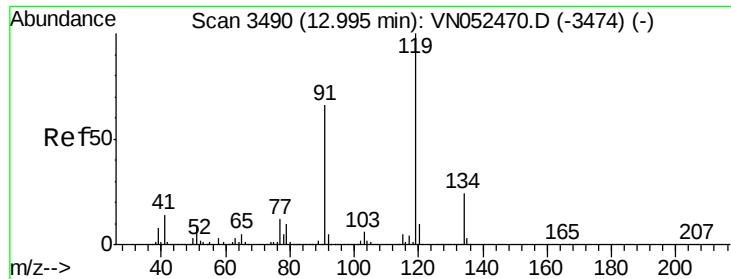
105 100

120 660.2 24.3 73.0#



Abundance Ion 105.00 (104.70 to 105.70): VN052732.D (-3316) (-)





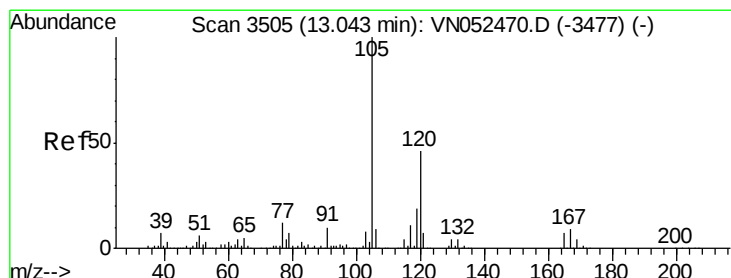
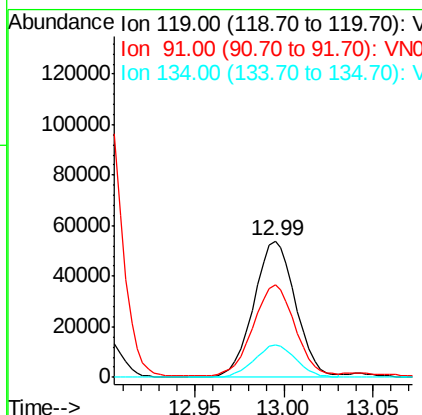
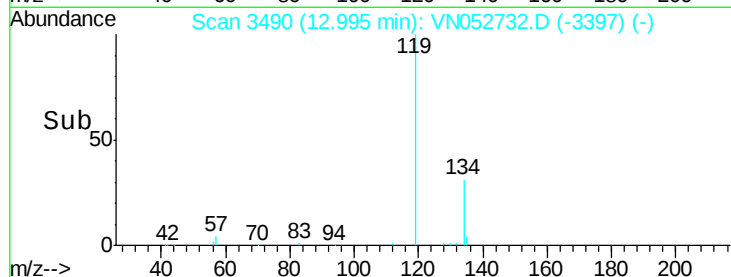
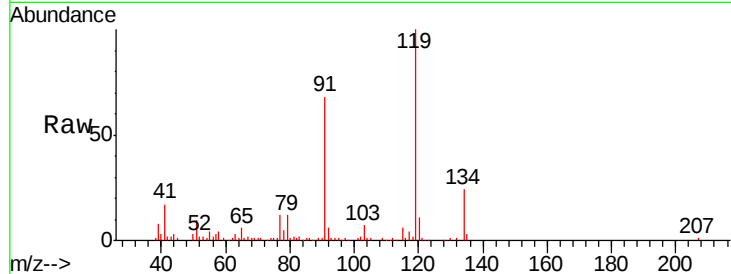
#83
 tert-Butylbenzene
 Concen: 2.432 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN052732.D
 Acq: 7 Dec 2018 17:39

Instrument :
 MSVOA_N
 ClientSampled :
 MW-2

Tgt Ion	Ratio	Lower	Upper
119	100		
91	66.1	32.3	96.9
134	23.7	13.0	38.9

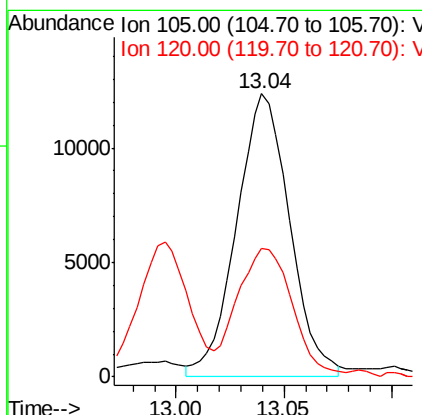
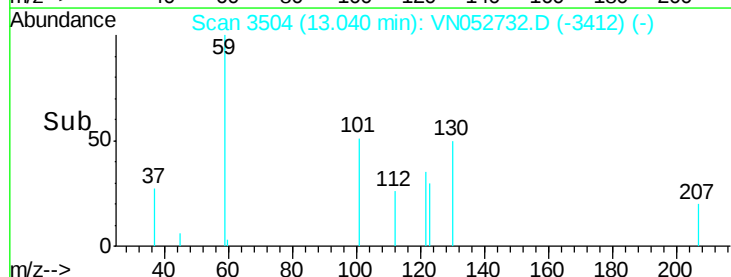
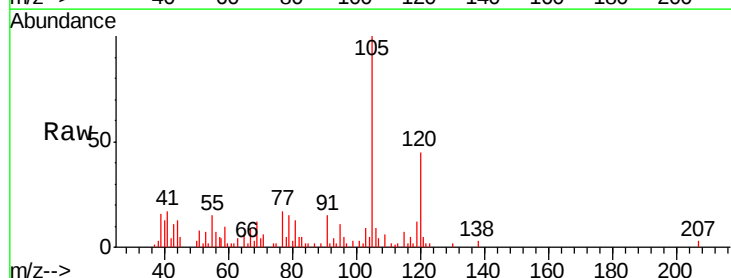
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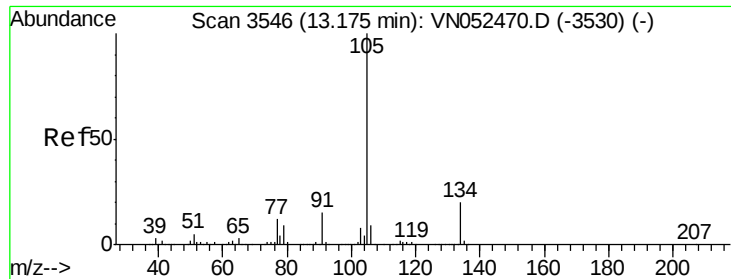
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#84
 1,2,4-Trimethylbenzene
 Concen: 0.519 ug/l m
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN052732.D
 Acq: 7 Dec 2018 17:39

Tgt Ion	Ratio	Lower	Upper
105	100		
120	3975.1	22.8	68.4#





#85

sec-Butylbenzene

Concen: 6.123 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN052732.D

Acq: 7 Dec 2018 17:39

Instrument :

MSVOA_N

ClientSampleId :

MW-2

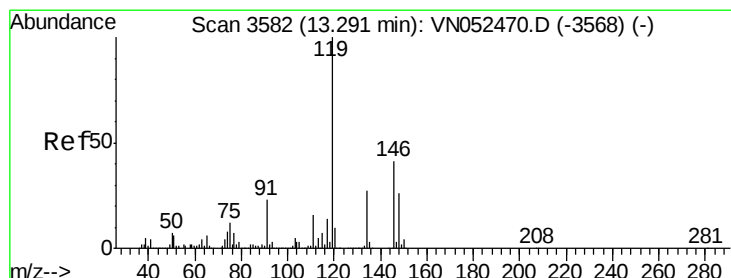
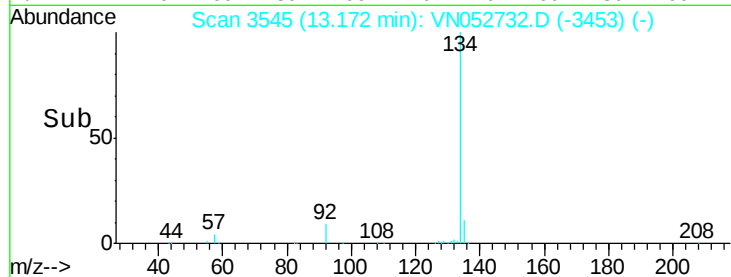
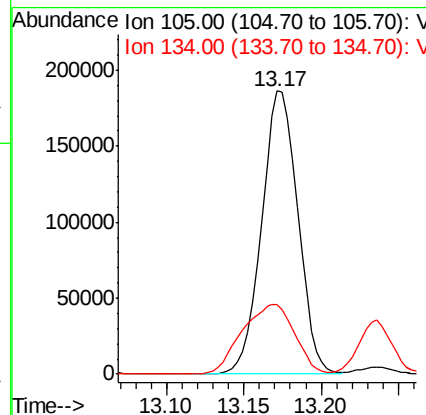
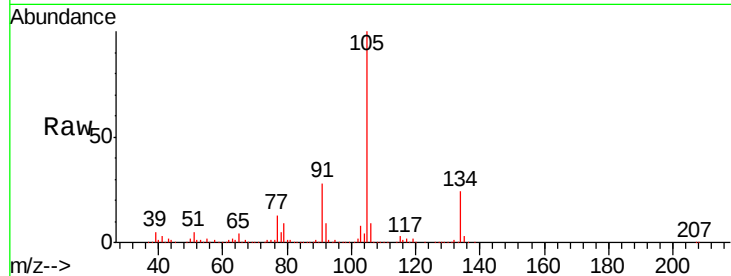
Tgt Ion:105 Resp: 302827
Ion Ratio Lower Upper

105 100

134 35.8 9.9 29.7#

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#86

p-Isopropyltoluene

Concen: 3.121 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN052732.D

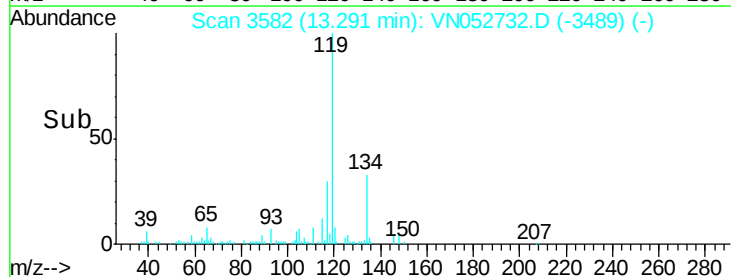
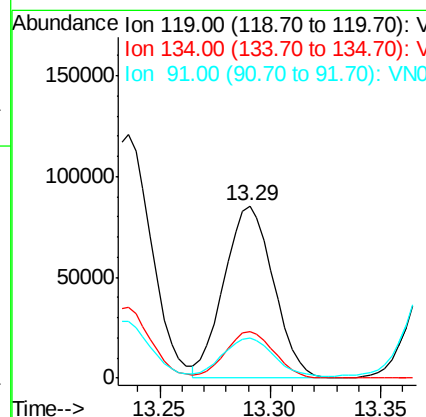
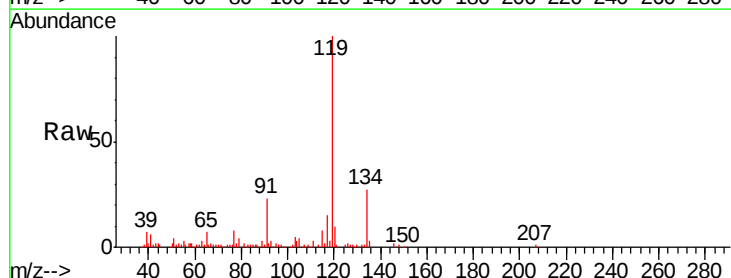
Acq: 7 Dec 2018 17:39

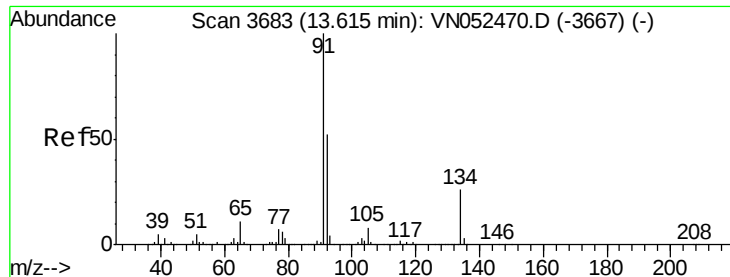
Tgt Ion:119 Resp: 131489
Ion Ratio Lower Upper

119 100

134 26.9 13.4 40.2

91 0.0 11.4 34.2#





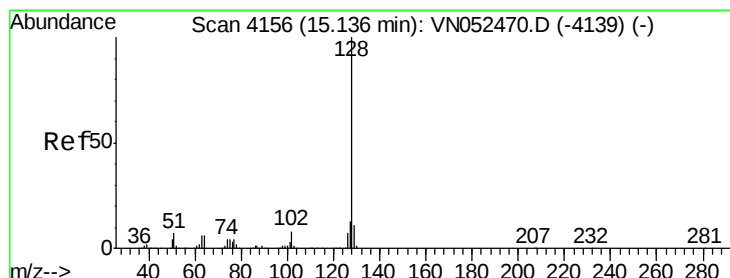
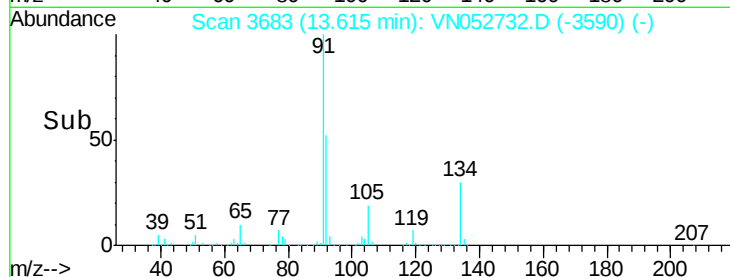
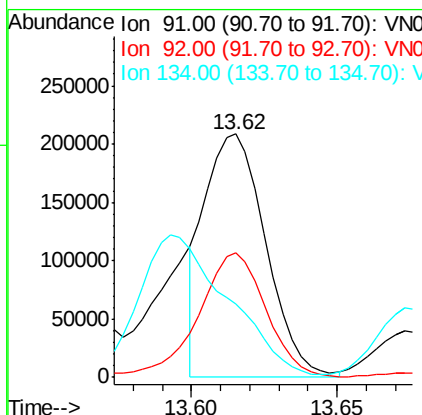
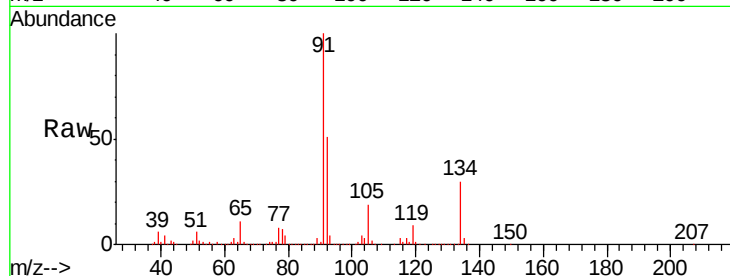
#89
n-Butylbenzene
Concen: 8.755 ug/l m
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN052732.D
Acq: 7 Dec 2018 17:39

Instrument :
MSVOA_N
ClientSampled :
MW-2

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.7	26.1	78.3
134	0.0	13.0	38.9#

Manual Integrations
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#95
Naphthalene
Concen: 11.227 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN052732.D
Acq: 7 Dec 2018 17:39

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	11.5	8.7	13.1

