

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX032618\
 Data File : VX000451.D
 Acq On : 26 Mar 2018 19:37
 Operator : JC/MD
 Sample : J2056-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 22146

Manual Integrations
 APPROVED

sam
 3/27/2018 5:24:04 PM

Quant Time: Mar 27 09:47:30 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X032018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 21 04:52:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	108320	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	192956	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	193399	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	101464	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.08	65	80391	56.86	ug/l	0.00
Spiked Amount			Recovery	=	113.72%	
35) Dibromofluoromethane	5.51	113	61917	50.93	ug/l	0.00
Spiked Amount			Recovery	=	101.86%	
50) Toluene-d8	8.73	98	243275	48.31	ug/l	0.00
Spiked Amount			Recovery	=	96.62%	
62) 4-Bromofluorobenzene	11.15	95	87296	42.13	ug/l	0.00
Spiked Amount			Recovery	=	84.26%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.11	59	58553m	120.39	ug/l	
16) Acetone	2.46	43	67906	57.73	ug/l	98
17) Carbon Disulfide	2.57	76	4119	1.33	ug/l	97
18) Methyl Acetate	2.79	43	94580	38.35	ug/l	98
25) 2-Butanone	4.73	43	9651	7.30	ug/l	95
37) Ethyl Acetate	4.88	43	7433	3.01	ug/l #	92
40) Benzene	6.15	78	132295	25.20	ug/l	99
52) Toluene	8.79	92	45100	12.29	ug/l	97
65) Chlorobenzene	10.15	112	5561	1.29	ug/l #	85
67) Ethyl Benzene	10.26	91	6660	0.91	ug/l	94
68) m/p-Xylenes	10.37	106	14696	5.12	ug/l	88
69) o-Xylene	10.71	106	6259	2.25	ug/l	97
70) Styrene	10.72	104	2547	0.55	ug/l #	55
84) 1,2,4-Trimethylbenzene	11.82	105	9200	1.55	ug/l	93
95) Naphthalene	13.84	128	20500	2.47	ug/l	99

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

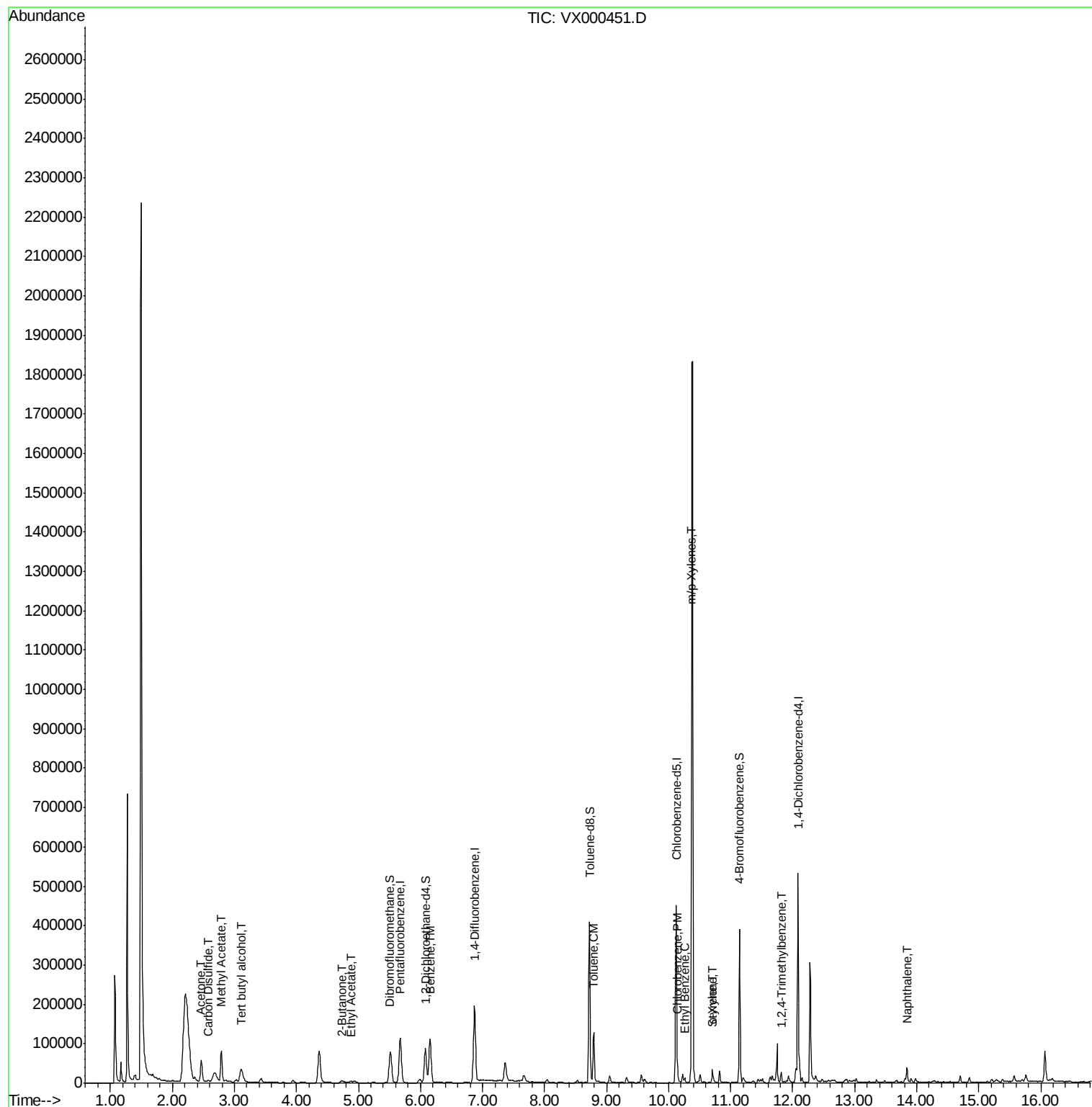
Data Path : W:\HPCHEM1\MSVOA X\DATA\VX032618\
Data File : VX000451.D
Acq On : 26 Mar 2018 19:37
Operator : JC/MD
Sample : J2056-04
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 19 Sample Multiplier: 1

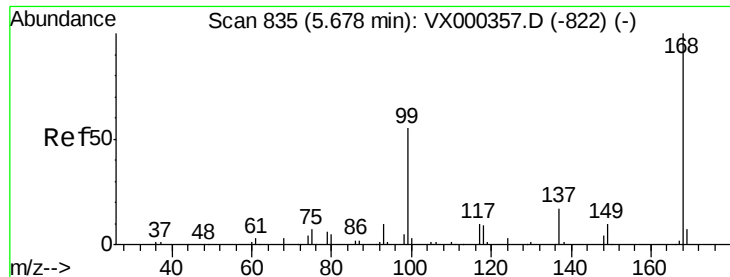
Instrument :
MSVOA_X
ClientSampleId :
22146

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3/27/2018 5:24:04 PM

Quant Time: Mar 27 09:47:30 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X032018W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 21 04:52:42 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.01 min

Lab File: VX000451.D

Acq: 26 Mar 2018 19:37

Instrument :

MSVOA_X

ClientSampleId :

22146

Tot Ion:168 Resp: 108320

Ion Ratio Lower Upper

168 100

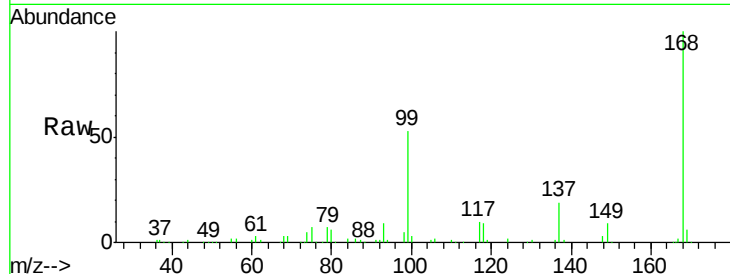
99 53.2 45.8 68.6

Manual Integrations

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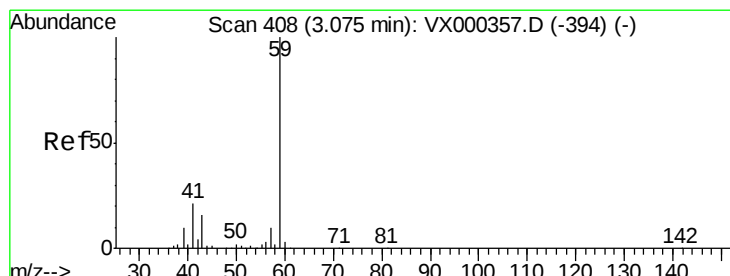
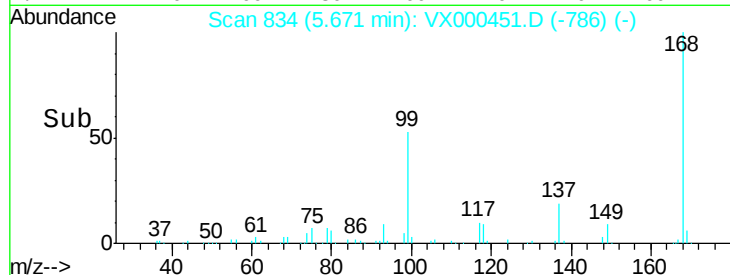
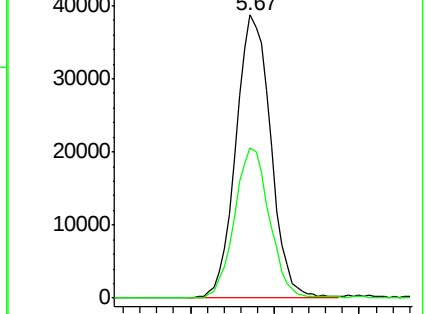
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#11

Tert butyl alcohol

Concen: 120.39 ug/l m

RT: 3.11 min Scan# 414

Delta R.T. 0.04 min

Lab File: VX000451.D

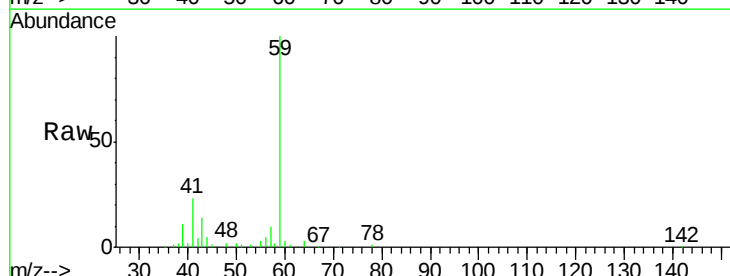
Acq: 26 Mar 2018 19:37

Tgt Ion: 59 Resp: 58553

Ion Ratio Lower Upper

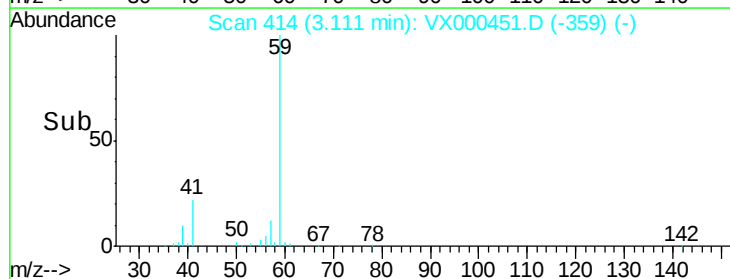
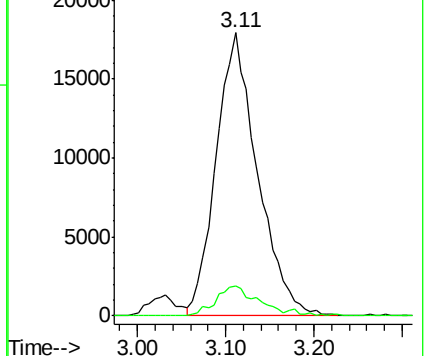
59 100

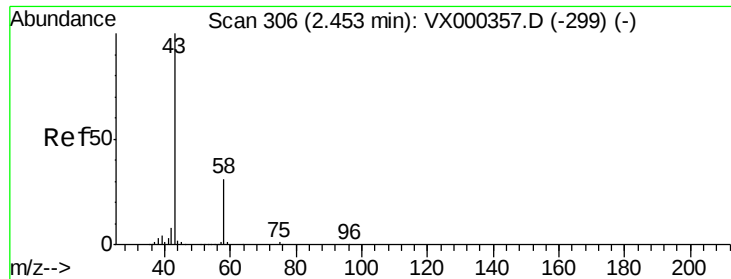
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





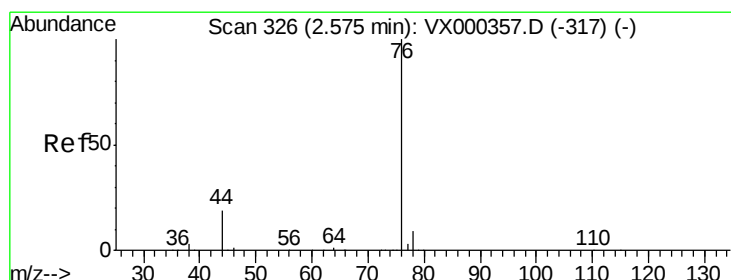
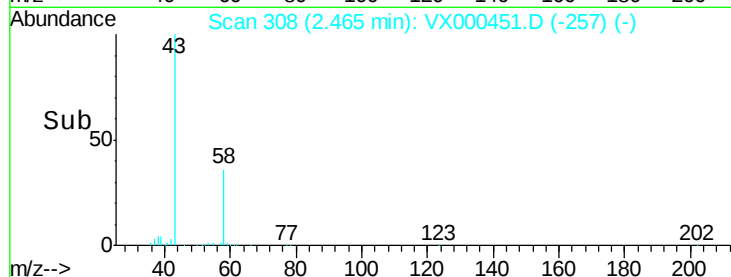
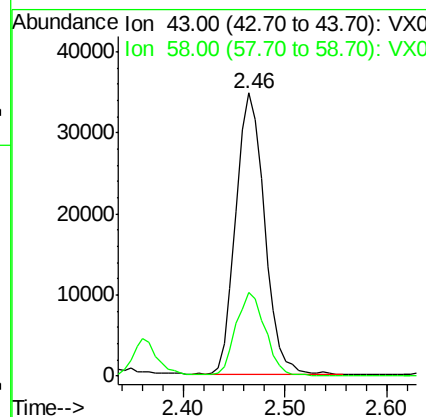
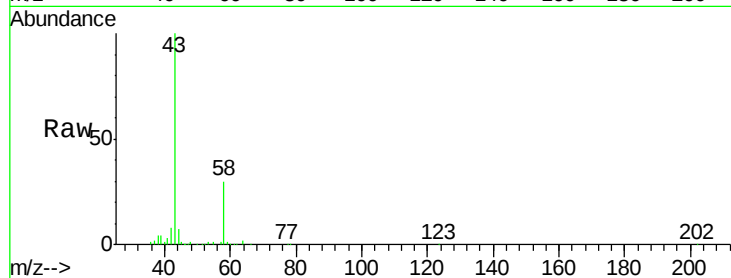
#16
Acetone
Concen: 57.73 ug/l
RT: 2.46 min Scan# 308
Delta R.T. 0.01 min
Lab File: VX000451.D
Acq: 26 Mar 2018 19:37

Instrument :
MSVOA_X
ClientSampleId :
22146

Tot Ion: 43 Resp: 67906
Ion Ratio Lower Upper
43 100
58 29.7 24.7 37.1

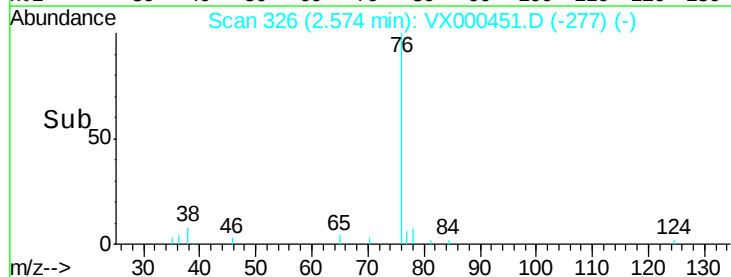
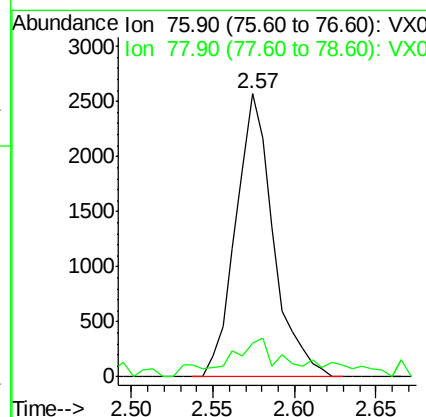
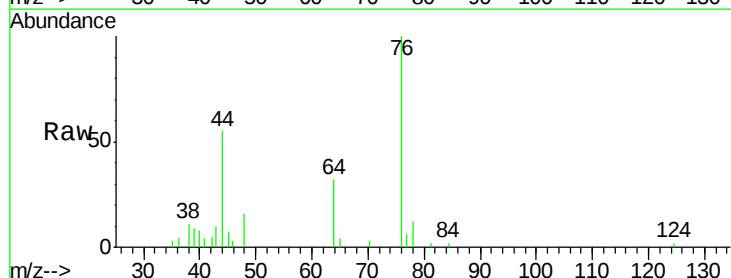
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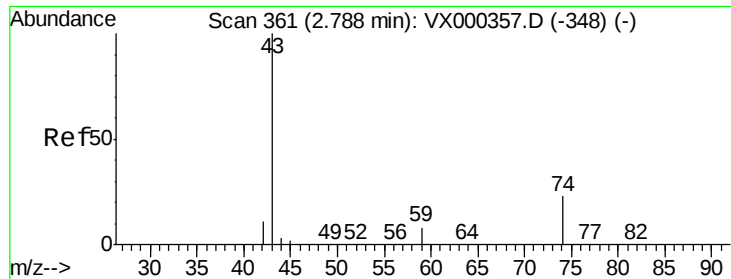
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#17
Carbon Disulfide
Concen: 1.33 ug/l
RT: 2.57 min Scan# 326
Delta R.T. 0.00 min
Lab File: VX000451.D
Acq: 26 Mar 2018 19:37

Tgt Ion: 76 Resp: 4119
Ion Ratio Lower Upper
76 100
78 7.5 7.0 10.6





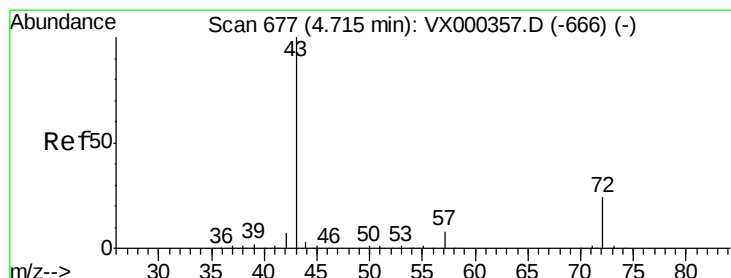
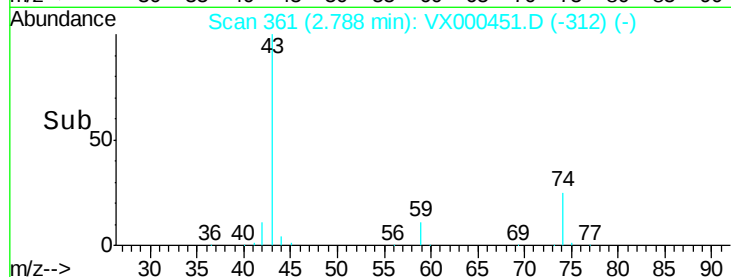
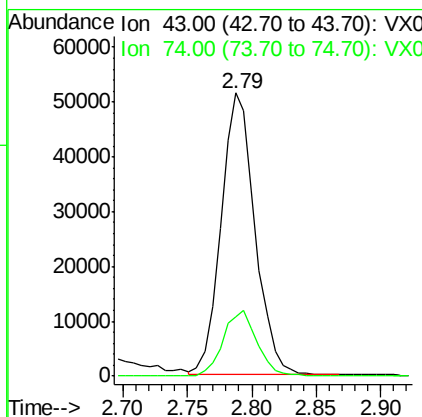
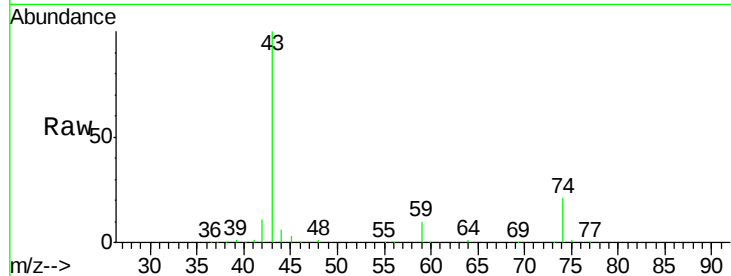
#18
Methvl Acetate
Concen: 38.35 ug/l
RT: 2.79 min Scan# 361
Delta R.T. -0.00 min
Lab File: VX000451.D
Acq: 26 Mar 2018 19:37

Instrument :
MSVOA_X
ClientSampled :
22146

Tot Ion: 43 Resp: 94580
Ion Ratio Lower Upper
43 100
74 23.4 19.4 29.2

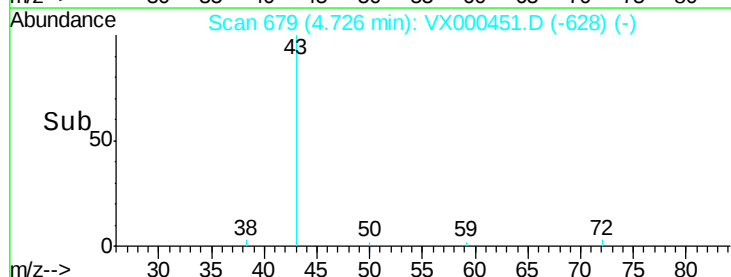
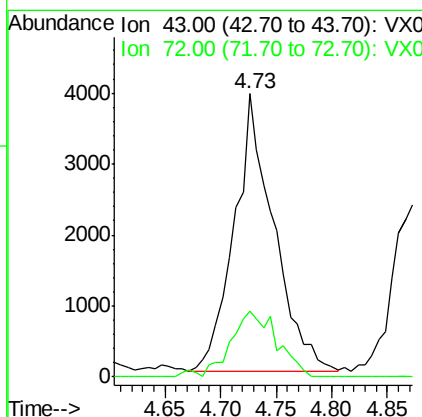
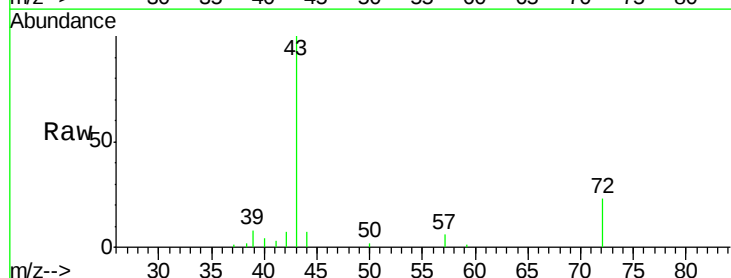
Manual Integrations
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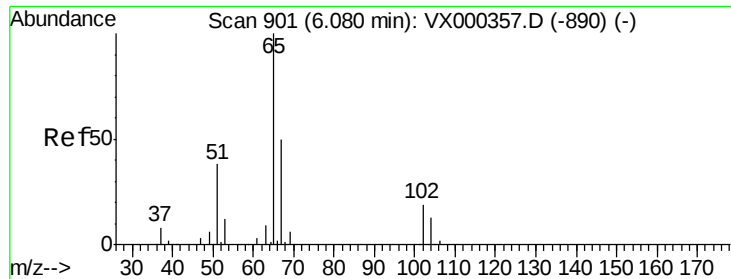
sam
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#25
2-Butanone
Concen: 7.30 ug/l
RT: 4.73 min Scan# 679
Delta R.T. 0.01 min
Lab File: VX000451.D
Acq: 26 Mar 2018 19:37

Tgt Ion: 43 Resp: 9651
Ion Ratio Lower Upper
43 100
72 23.9 21.0 31.6





#33

1,2-Dichloroethane-d4

Concen: 56.86 ug/l

RT: 6.08 min Scan# 901

Delta R.T. -0.00 min

Lab File: VX000451.D

Acq: 26 Mar 2018 19:37

Instrument :

MSVOA_X

ClientSampleId :

22146

Tot Ion: 65 Resp: 80391

Ion Ratio Lower Upper

65 100

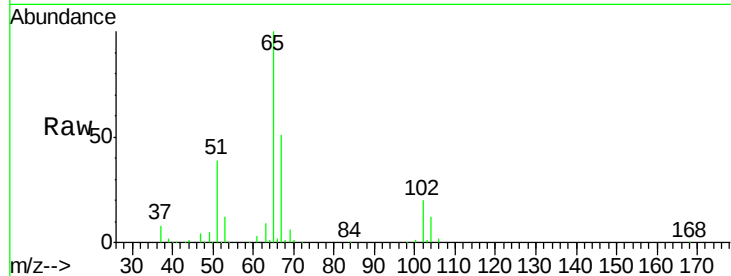
67 50.0 0.0 103.2

Manual Integrations

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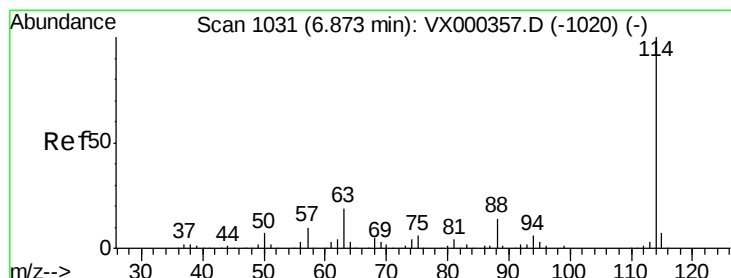
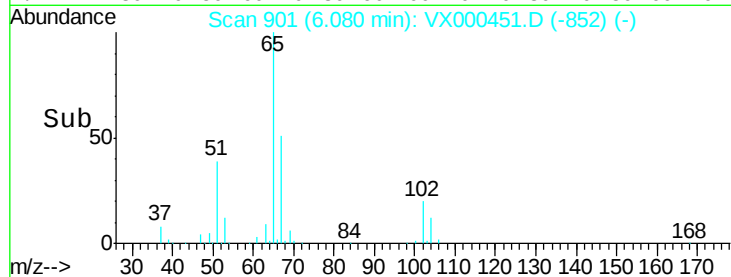
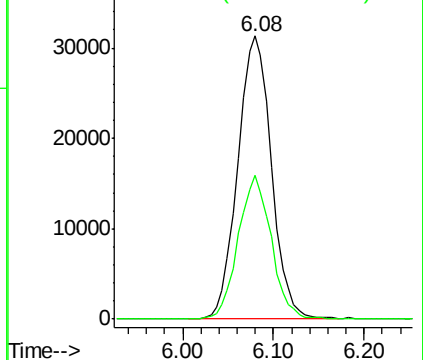
sam

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Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VX000451.D

Acq: 26 Mar 2018 19:37

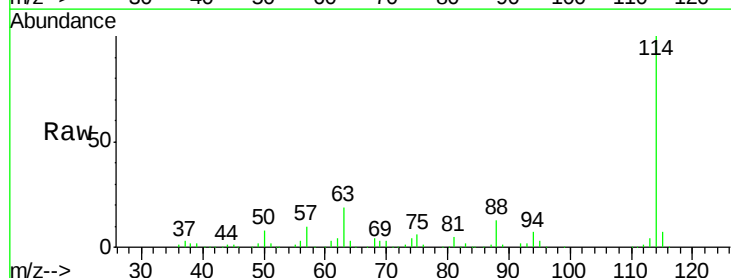
Tgt Ion: 114 Resp: 192956

Ion Ratio Lower Upper

114 100

63 19.0 0.0 38.4

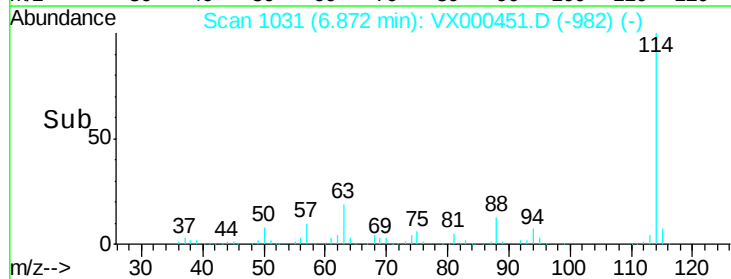
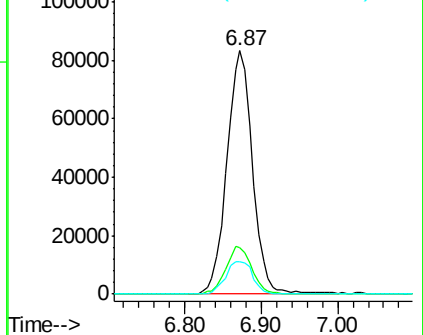
88 13.3 0.0 27.0

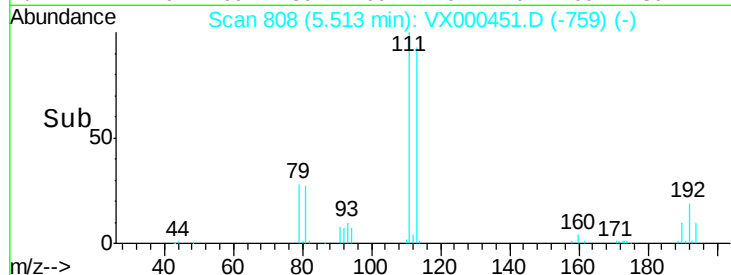
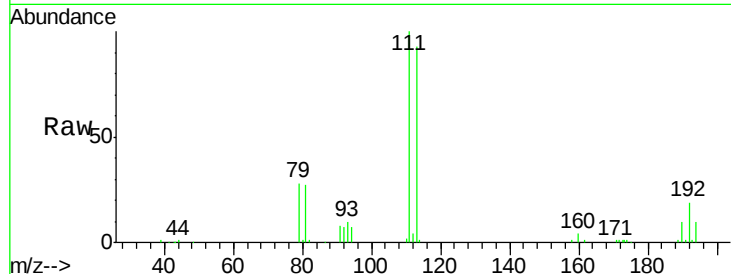
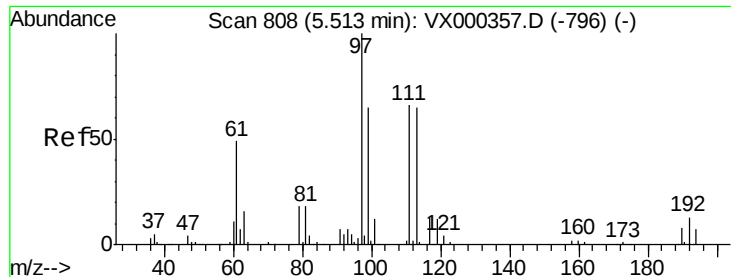


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





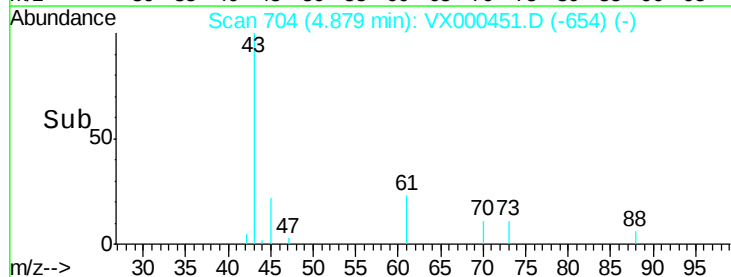
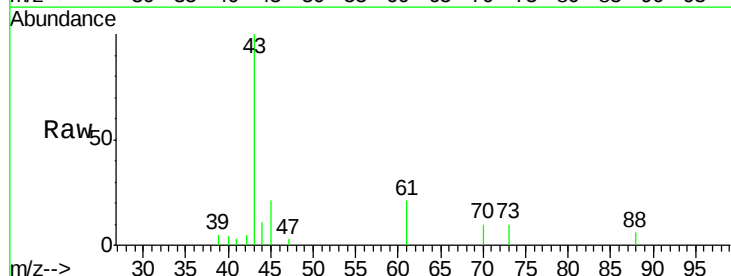
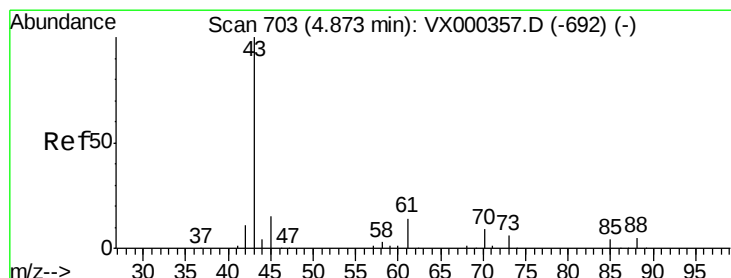
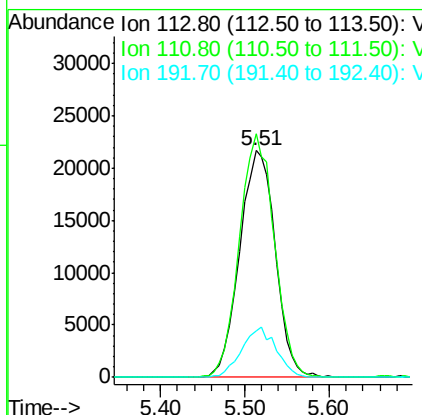
#35
Dibromofluoromethane
Concen: 50.93 ug/l
RT: 5.51 min Scan# 808
Delta R.T. -0.00 min
Lab File: VX000451.D
Acq: 26 Mar 2018 19:37

Tot Ion	Ratio	Resp	Lower	Upper
113	100	61917		
111	105.4	82.4	123.6	
192	21.4	15.8	23.6	

Instrument :
MSVOA_X
ClientSampled :
22146

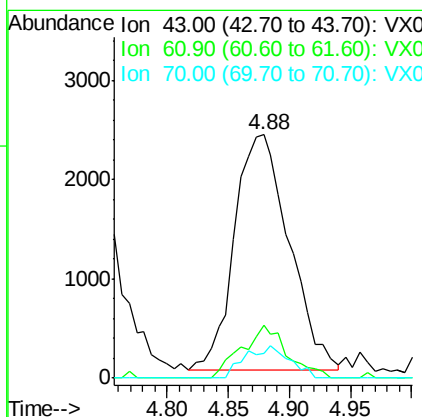
Manual Integrations
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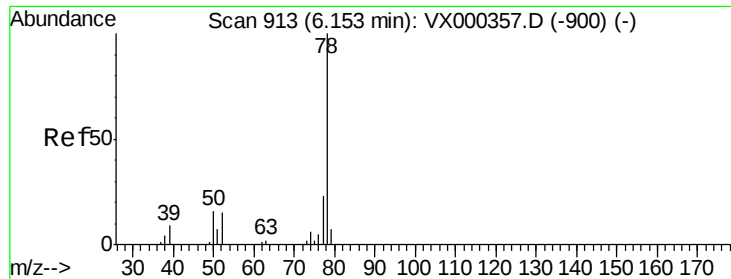
sam
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#37
Ethyl Acetate
Concen: 3.01 ug/l
RT: 4.88 min Scan# 704
Delta R.T. 0.01 min
Lab File: VX000451.D
Acq: 26 Mar 2018 19:37

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	7433		
61	18.5	11.1	16.7#	
70	10.9	7.7	11.5	





#40

Benzene

Concen: 25.20 ug/l

RT: 6.15 min Scan# 913

Delta R.T. -0.00 min

Lab File: VX000451.D

Acq: 26 Mar 2018 19:37

Instrument :

MSVOA_X

ClientSampled :

22146

Tot Ion: 78 Resp: 132295

Ion Ratio Lower Upper

78 100

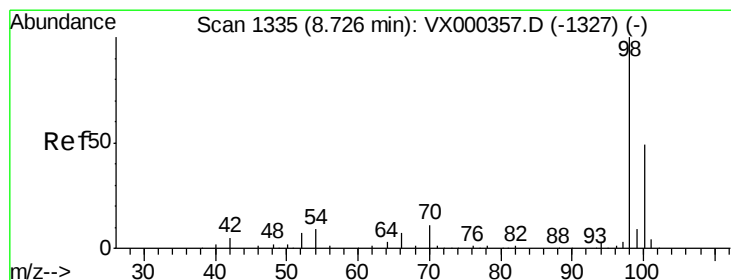
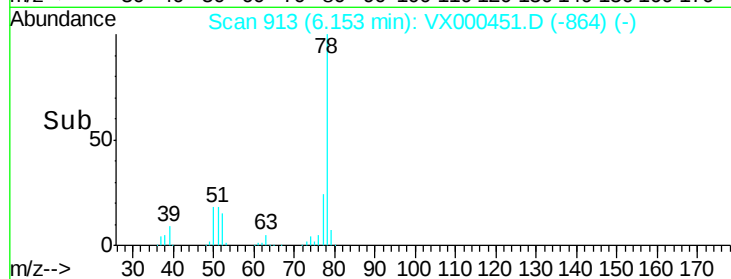
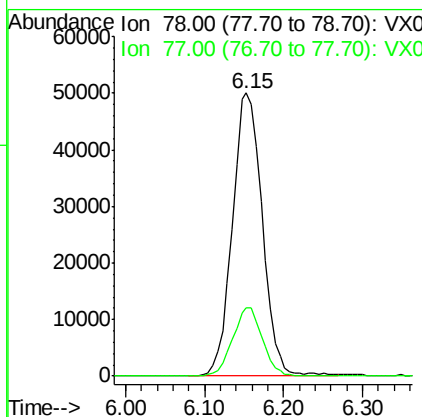
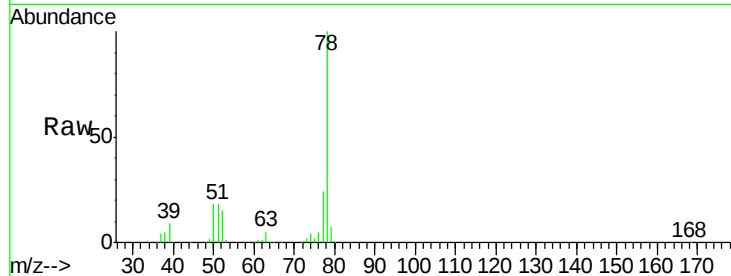
77 24.1 18.7 28.1

Manual Integrations

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#50

Toluene-d8

Concen: 48.31 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VX000451.D

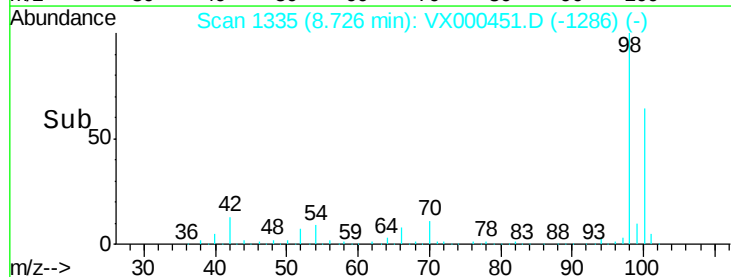
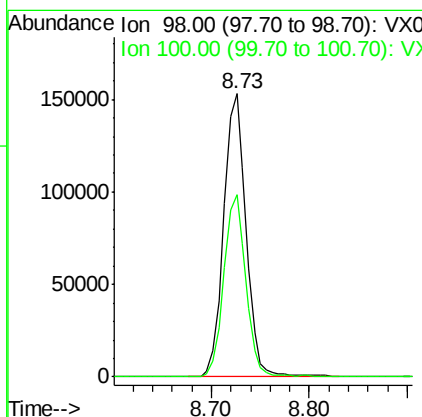
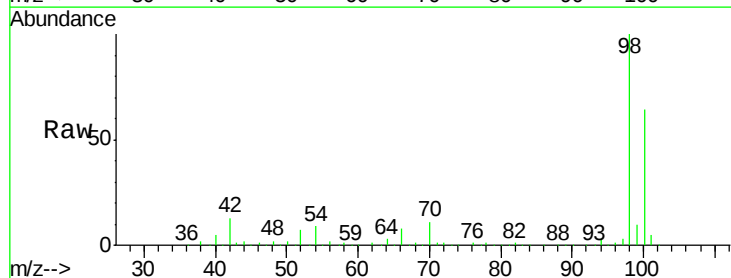
Acq: 26 Mar 2018 19:37

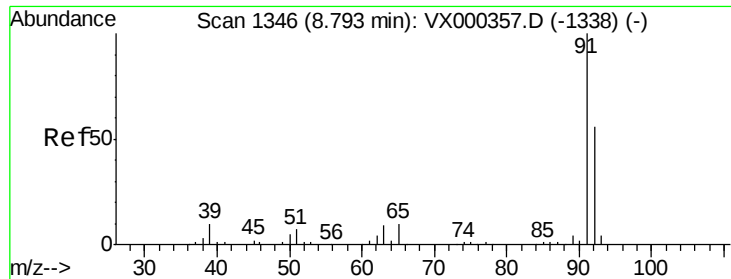
Tgt Ion: 98 Resp: 243275

Ion Ratio Lower Upper

98 100

100 63.2 51.2 76.8





#52

Toluene

Concen: 12.29 ug/l

RT: 8.79 min Scan# 1346

Delta R.T. -0.00 min

Lab File: VX000451.D

Acq: 26 Mar 2018 19:37

Instrument :

MSVOA_X

ClientSampled :

22146

Tot Ion: 92 Resp: 45100

Ion Ratio Lower Upper

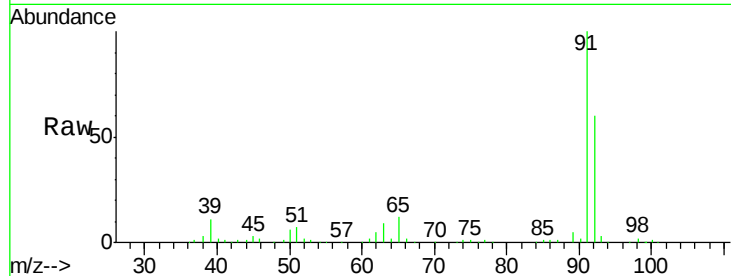
92 100

91 171.2 140.2 210.2

Manual Integrations
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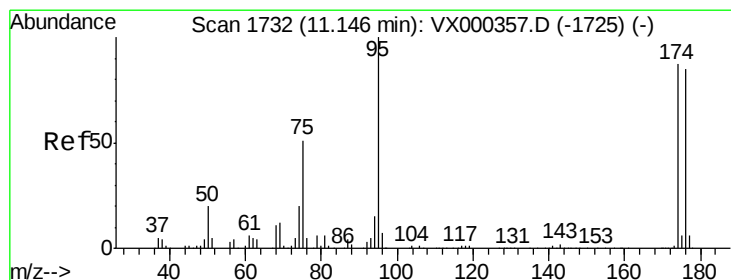
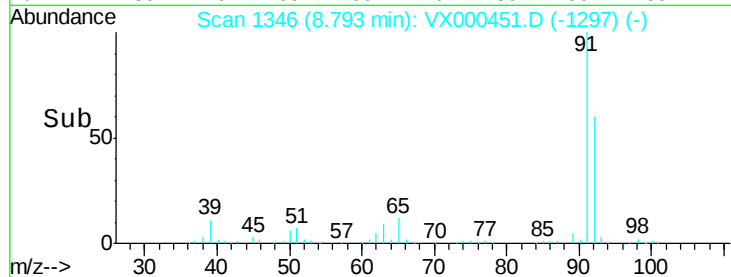
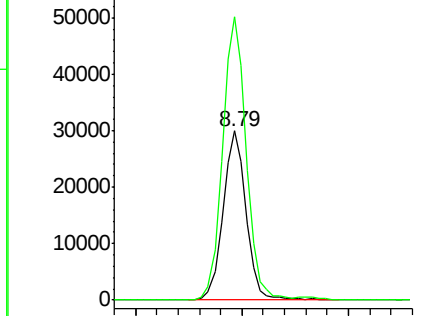
sam

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Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 42.13 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VX000451.D

Acq: 26 Mar 2018 19:37

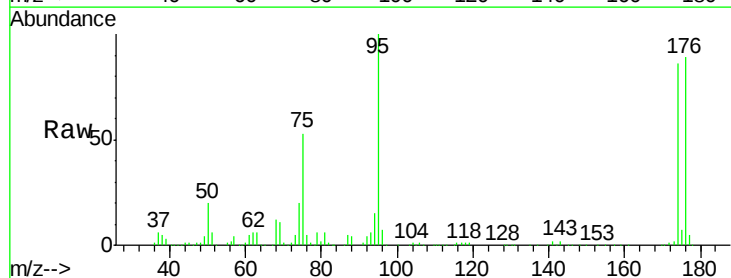
Tgt Ion: 95 Resp: 87296

Ion Ratio Lower Upper

95 100

174 90.0 0.0 173.6

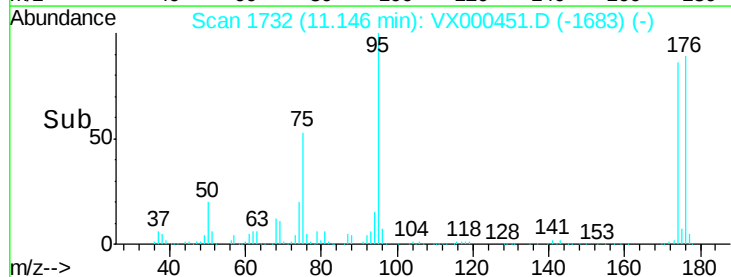
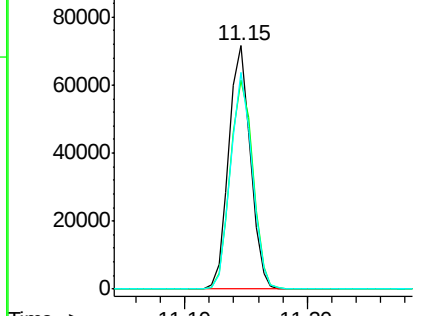
176 88.6 0.0 164.6

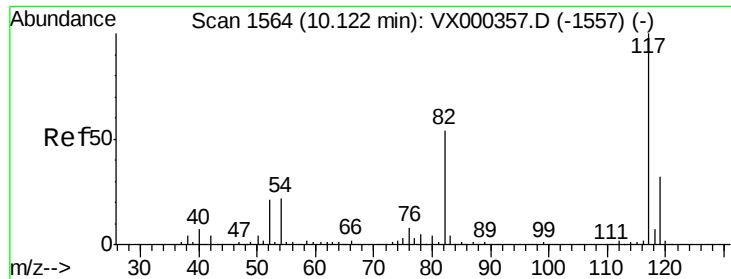


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





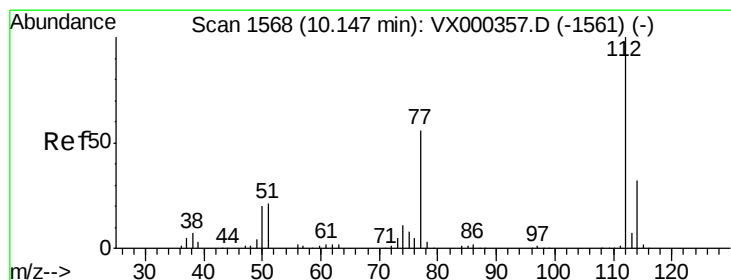
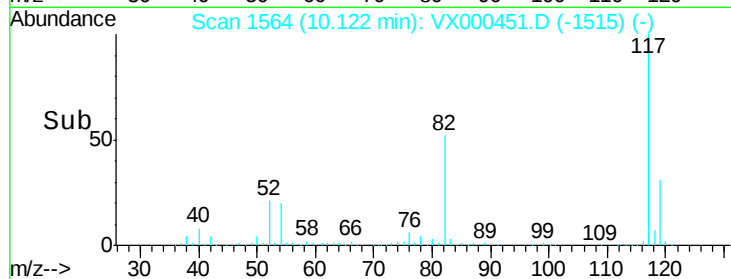
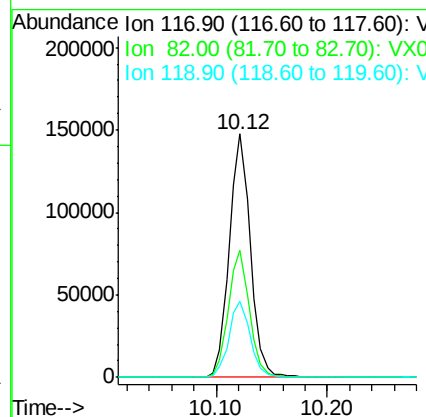
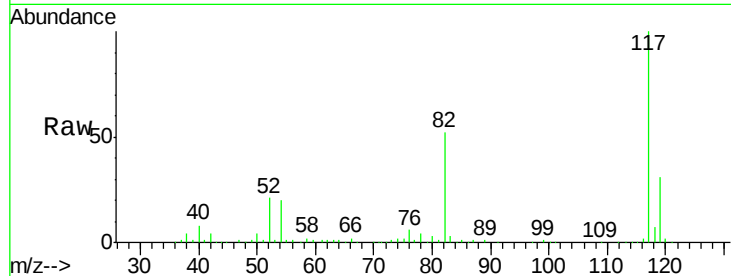
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000451.D
Acq: 26 Mar 2018 19:37

Instrument :
MSVOA_X
ClientSampled :
22146

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.1	43.8	65.8
119	31.0	24.9	37.3

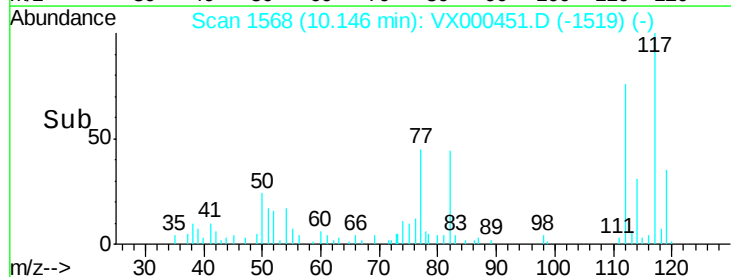
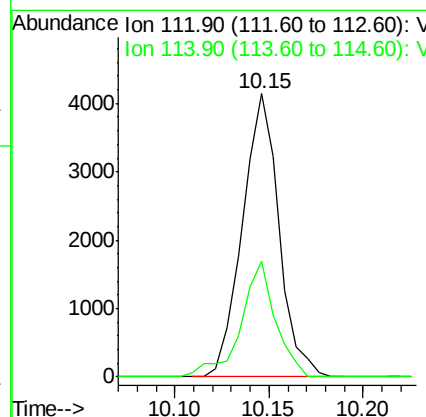
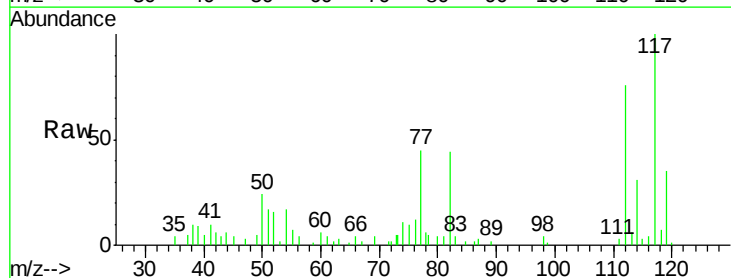
Manual Integrations
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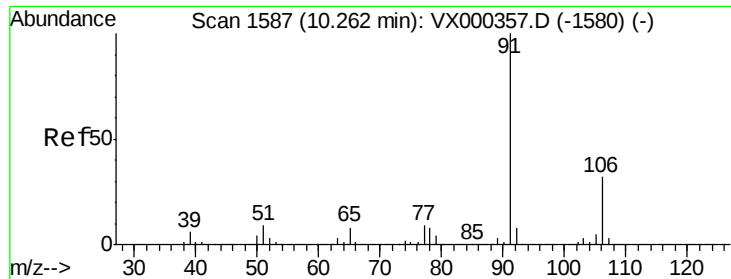
sam
3/27/2018 5:24:04 PM



#65
Chlorobenzene
Concen: 1.29 ug/l
RT: 10.15 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX000451.D
Acq: 26 Mar 2018 19:37

Tgt Ion	Ratio	Lower	Upper
112	100		
114	40.7	25.7	38.5#





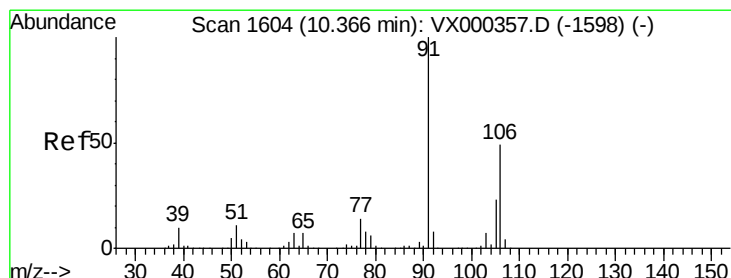
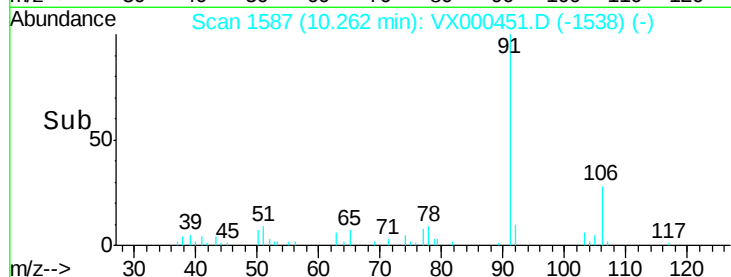
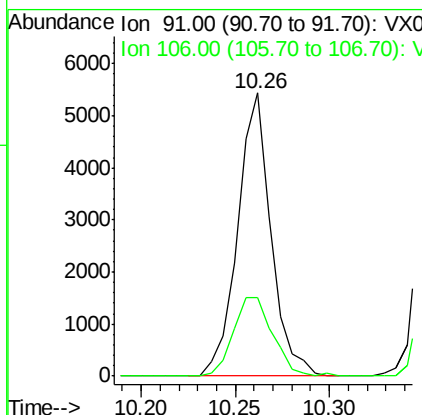
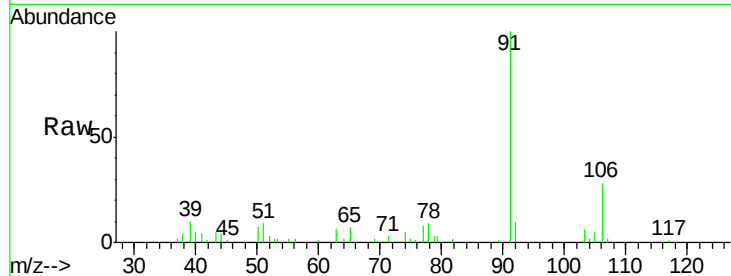
#67
Ethyl Benzene
Concen: 0.91 ug/l
RT: 10.26 min Scan# 1587
Delta R.T. -0.00 min
Lab File: VX000451.D
Acq: 26 Mar 2018 19:37

Instrument :
MSVOA_X
ClientSampled :
22146

Tot Ion: 91 Resp: 6660
Ion Ratio Lower Upper
91 100
106 27.8 25.0 37.6

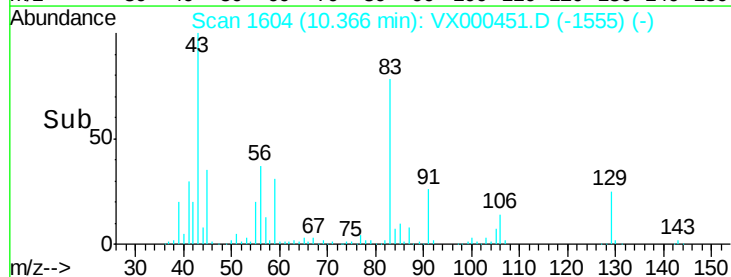
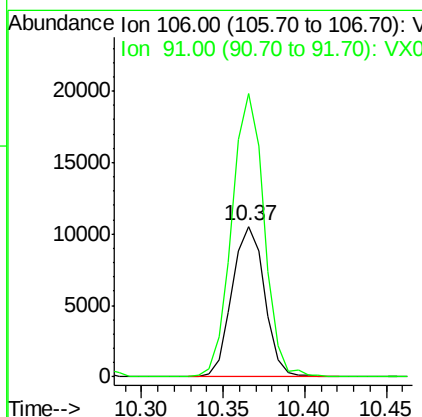
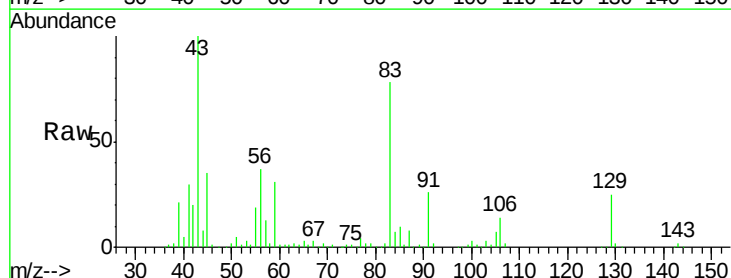
Manual Integrations
APPROVED

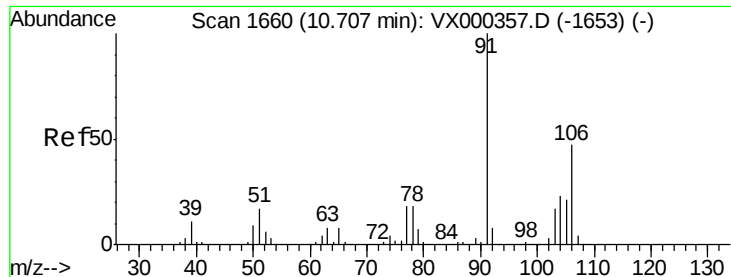
sam
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#68
m/p-Xylenes
Concen: 5.12 ug/l
RT: 10.37 min Scan# 1604
Delta R.T. -0.00 min
Lab File: VX000451.D
Acq: 26 Mar 2018 19:37

Tgt Ion: 106 Resp: 14696
Ion Ratio Lower Upper
106 100
91 186.5 163.4 245.2





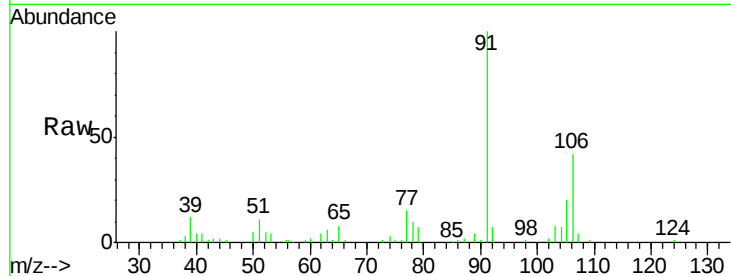
#69
o-Xylene
Concen: 2.25 ug/l
RT: 10.71 min Scan# 1660
Delta R.T. -0.00 min
Lab File: VX000451.D
Acq: 26 Mar 2018 19:37

Instrument :
MSVOA_X
ClientSampled :
22146

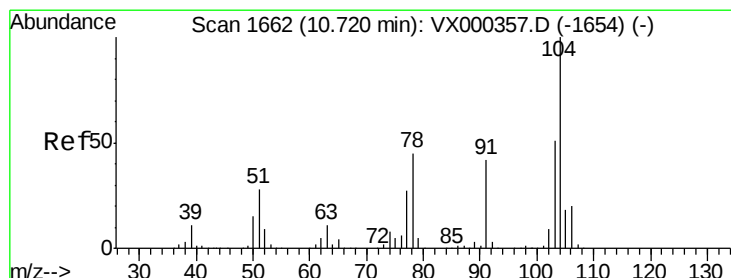
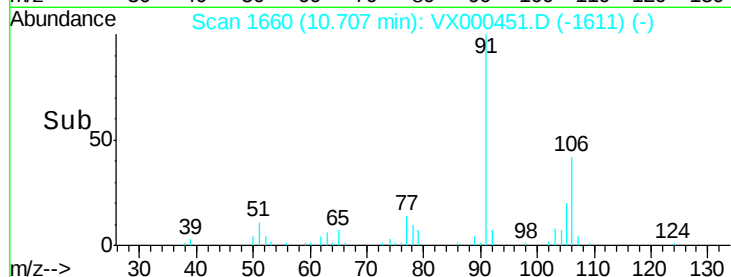
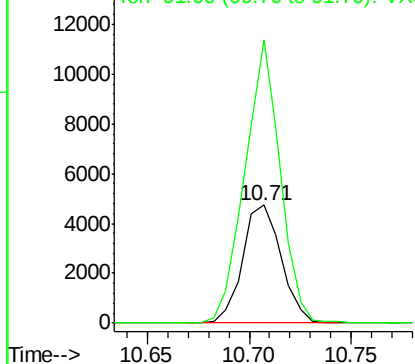
Tot Ion:106 Resp: 6259
Ion Ratio Lower Upper
106 100
91 218.4 106.5 319.6

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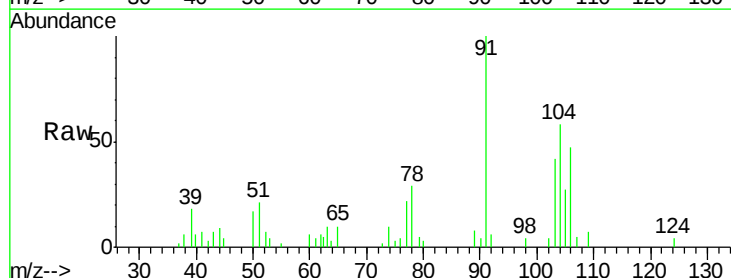


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

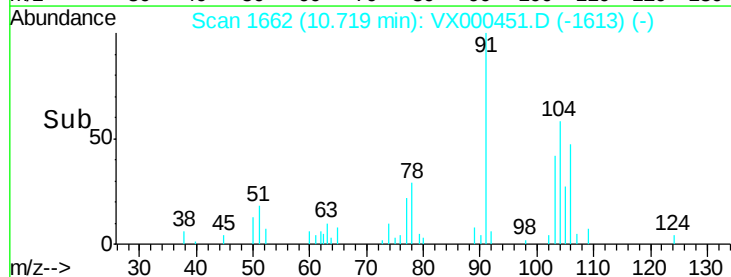
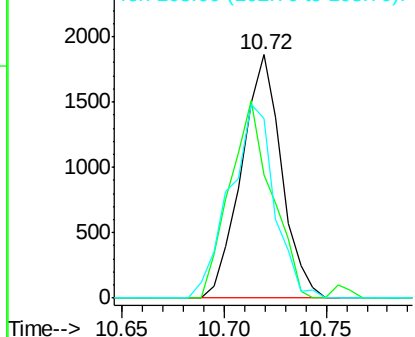


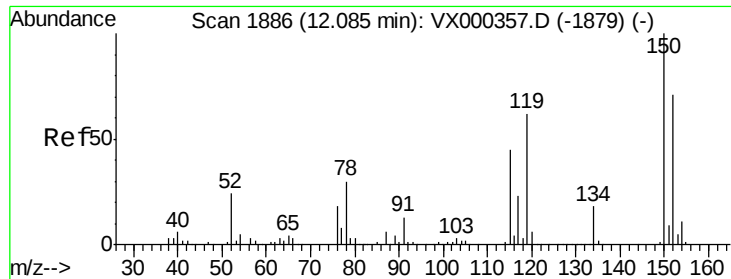
#70
Styrene
Concen: 0.55 ug/l
RT: 10.72 min Scan# 1662
Delta R.T. -0.00 min
Lab File: VX000451.D
Acq: 26 Mar 2018 19:37

Tgt Ion:104 Resp: 2547
Ion Ratio Lower Upper
104 100
78 84.6 40.5 60.7#
103 88.1 45.7 68.5#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000451.D

Acq: 26 Mar 2018 19:37

Instrument :

MSVOA_X

ClientSampleId :

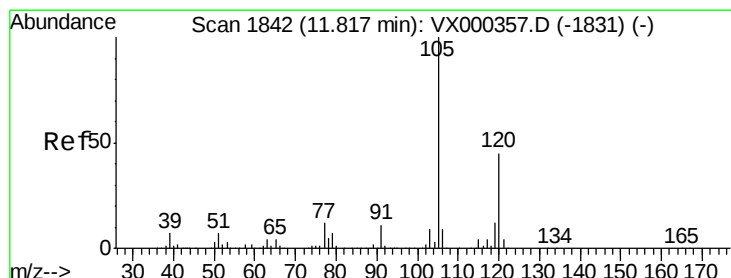
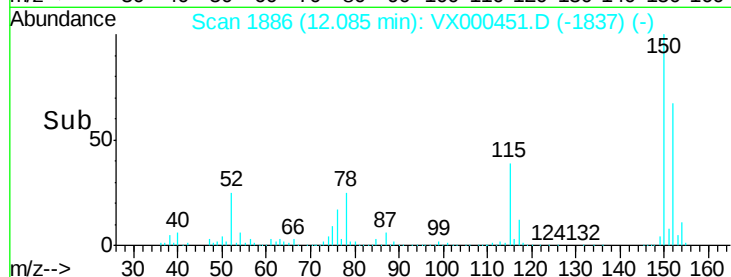
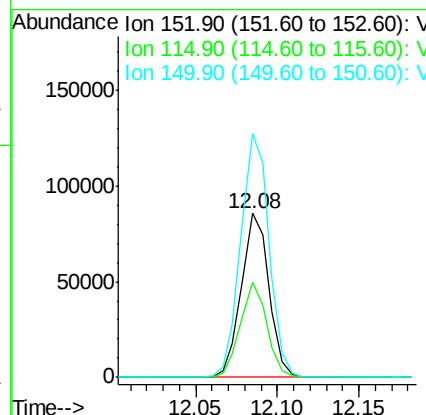
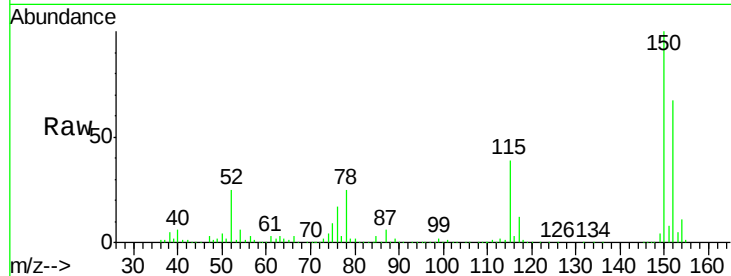
22146

Tot Ion:	152	Resp:	101464
Ion Ratio	Lower	Upper	
152	100		
115	55.6	39.8	119.3
150	152.4	0.0	344.4

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#84

1,2,4-Trimethylbenzene

Concen: 1.55 ug/l

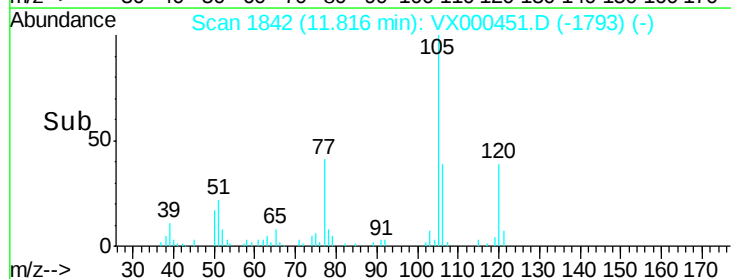
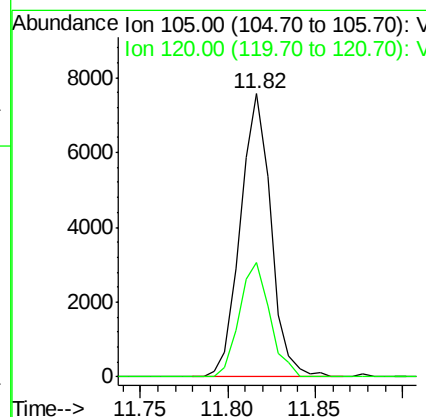
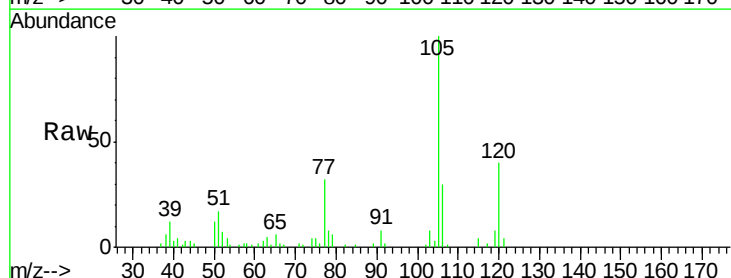
RT: 11.82 min Scan# 1842

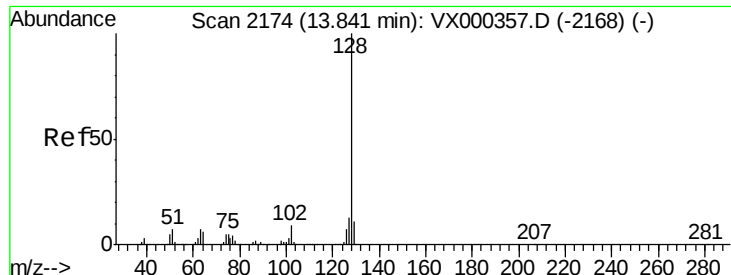
Delta R.T. -0.00 min

Lab File: VX000451.D

Acq: 26 Mar 2018 19:37

Tgt Ion:	105	Resp:	9200
Ion Ratio	Lower	Upper	
105	100		
120	40.1	22.4	67.3





#95
Naphthalene
Concen: 2.47 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. -0.00 min
Lab File: VX000451.D
Acq: 26 Mar 2018 19:37

Instrument :
MSVOA_X
ClientSampleId :
22146

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.6	15.8
129	10.9	8.9	13.3

Manual Integrations
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