

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110918\
 Data File : VU028048.D
 Acq On : 09 Nov 2018 16:33
 Operator : MD/SY
 Sample : J5885-07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-4

Manual Integrations
 APPROVED

MMDadoda
 11/12/2018 12:02:17 PM

Quant Time: Nov 12 07:18:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	198849	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	383478	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.10	117	387739	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	188247	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	165278	55.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.82%	
35) Dibromofluoromethane	4.89	113	124234	51.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.76%	
50) Toluene-d8	7.57	98	522462	55.94	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.88%	
62) 4-Bromofluorobenzene	10.31	95	199720	57.97	ug/l	0.00
Spiked Amount 50.000			Recovery	=	115.94%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.40	62	376181	124.031	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.29	101	21113	10.141	ug/l	100
12) 1,1-Dichloroethene	2.29	96	12858	6.170	ug/l	94
16) Acetone	2.32	43	14859	8.101	ug/l	97
19) Methyl tert-butyl Ether	3.00	73	41734	4.966	ug/l	98
21) trans-1,2-Dichloroethene	2.99	96	23561	9.796	ug/l	96
27) cis-1,2-Dichloroethene	4.23	96	6818890	2528.302	ug/l	90
30) Chloroform	4.68	83	4900	1.020	ug/l #	77
44) Trichloroethene	6.19	130	1262232	478.210	ug/l	99
52) Toluene	7.65	92	42359	5.868	ug/l	99
64) Tetrachloroethene	8.24	164	72742460m	28932.595	ug/l	
65) Chlorobenzene	9.13	112	16472	2.011	ug/l	94
66) 1,1,1,2-Tetrachloroethane	9.21	131	18348	6.557	ug/l	96
67) Ethyl Benzene	9.26	91	18592	1.233	ug/l	97
68) m/p-Xylenes	9.38	106	10317	1.886	ug/l	93
69) o-Xylene	9.78	106	54037	9.781	ug/l	98
73) Isopropylbenzene	10.17	105	73788	5.060	ug/l	99
78) n-propylbenzene	10.59	91	105325	6.034	ug/l	98
80) 1,3,5-Trimethylbenzene	10.77	105	27446	2.272	ug/l	96
84) 1,2,4-Trimethylbenzene	11.15	105	73967	6.080	ug/l	98
85) sec-Butylbenzene	11.33	105	3958	0.269	ug/l	99
91) 1,2-Dichlorobenzene	11.88	146	15601	2.511	ug/l	99
93) 1,2,4-Trichlorobenzene	13.50	180	40145	9.773	ug/l	97
96) 1,2,3-Trichlorobenzene	13.99	180	13332	3.198	ug/l	96

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

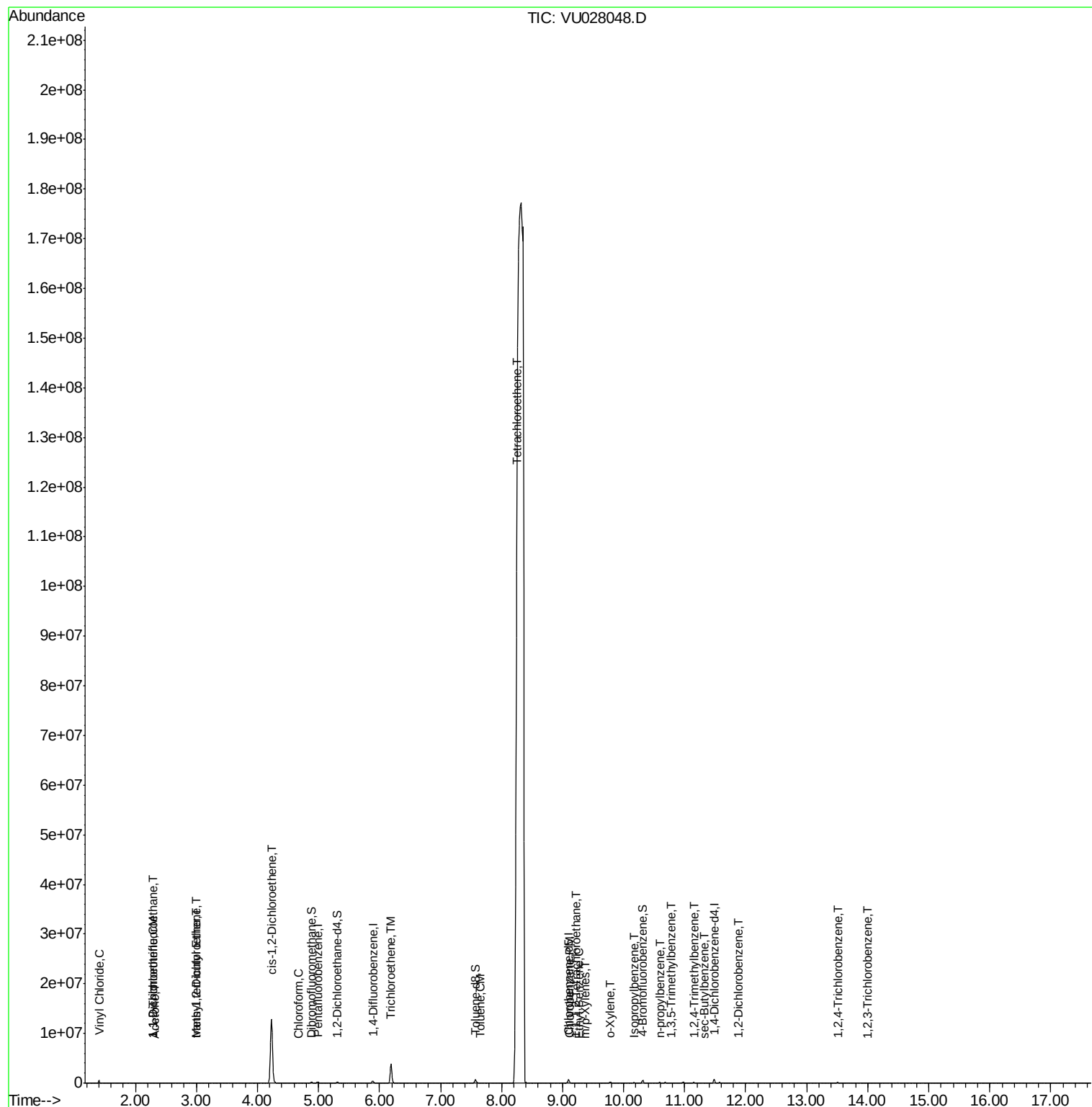
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU110918\
Data File : VU028048.D
Acq On : 09 Nov 2018 16:33
Operator : MD/SY
Sample : J5885-07
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 17 Sample Multiplier: 1

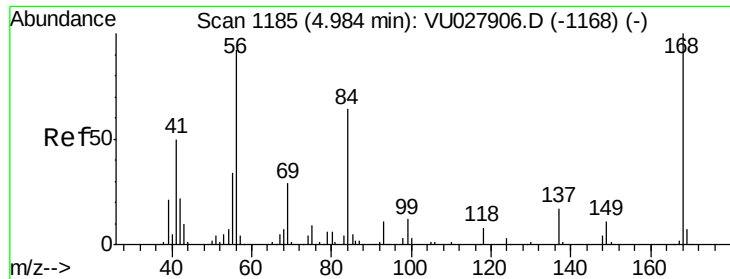
Instrument :
MSVOA_U
ClientSampleId :
MW-4

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Quant Time: Nov 12 07:18:20 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 02 02:28:20 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU028048.D

Acq: 09 Nov 2018 16:33

Instrument :

MSVOA_U

ClientSampled :

MW-4

Tot Ion:168 Resp: 198849

Ion Ratio Lower Upper

168 100

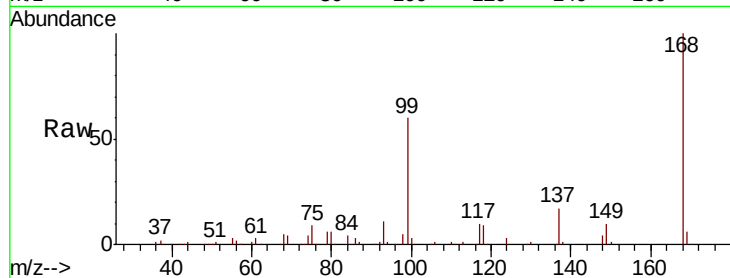
99 60.1 47.9 71.9

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Abundance Ion 167.90 (167.60 to 168.60): VU027906.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU027906.D (-1168) (-)

4.99

80000

60000

40000

20000

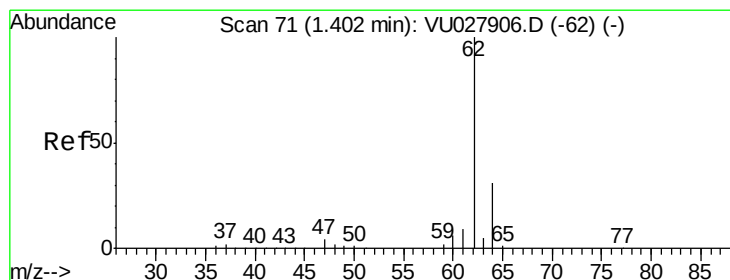
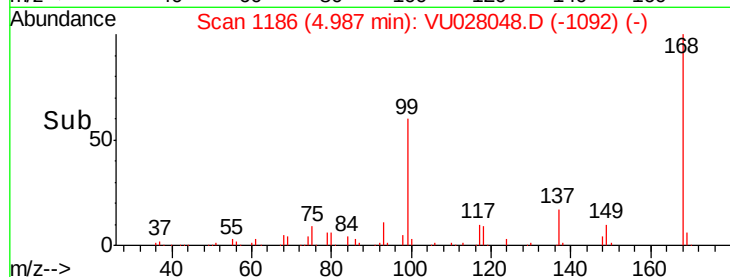
0

Time-->

4.90

5.00

5.10



#4

Vinyl Chloride

Concen: 124.031 ug/l

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028048.D

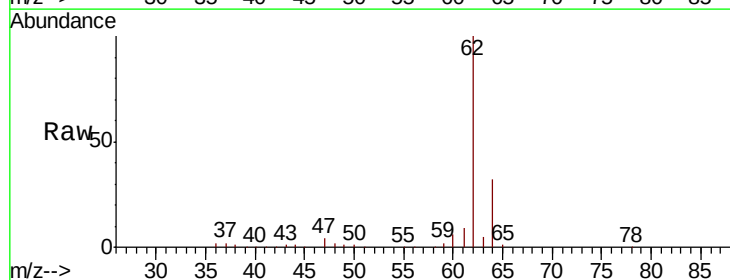
Acq: 09 Nov 2018 16:33

Tgt Ion: 62 Resp: 376181

Ion Ratio Lower Upper

62 100

64 32.4 25.2 37.8



Abundance Ion 61.90 (61.60 to 62.60): VU027906.D (-62) (-)

Ion 63.90 (63.60 to 64.60): VU027906.D (-62) (-)

1.40

400000

300000

200000

100000

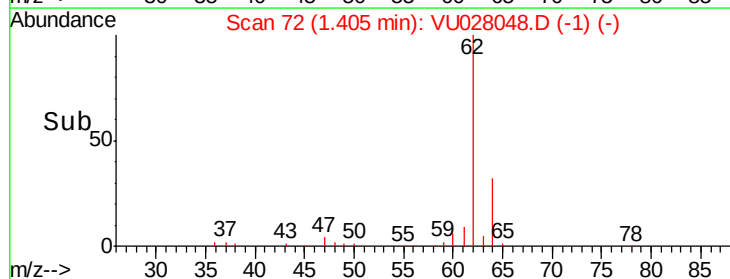
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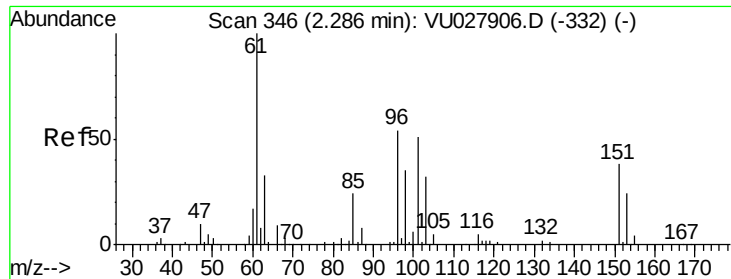
Time-->

1.35

1.40

1.45





#9

1,1,2-Trichlorotrifluoroethane

Concen: 10.141 ug/l

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU028048.D

Acq: 09 Nov 2018 16:33

Instrument :

MSVOA_U

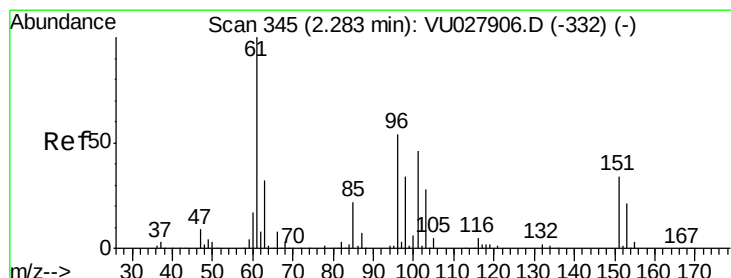
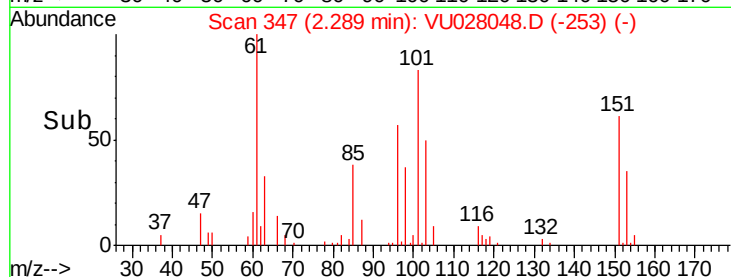
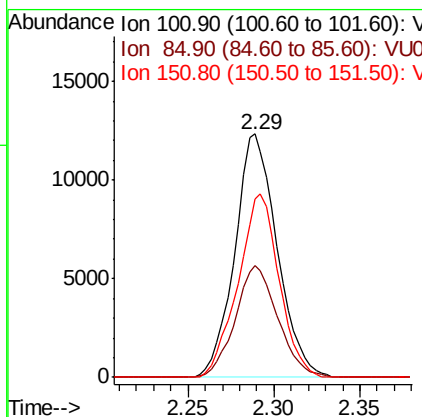
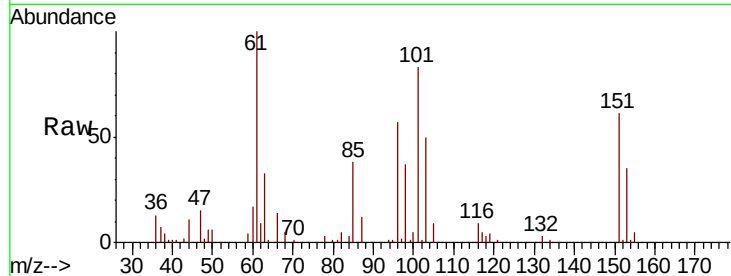
ClientSampled :

MW-4

Tot Ion:	101	Resp:	21113
Ion Ratio	Lower	Upper	
101	100		
85	46.3	36.9	55.3
151	72.9	58.0	87.0

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 6.170 ug/l

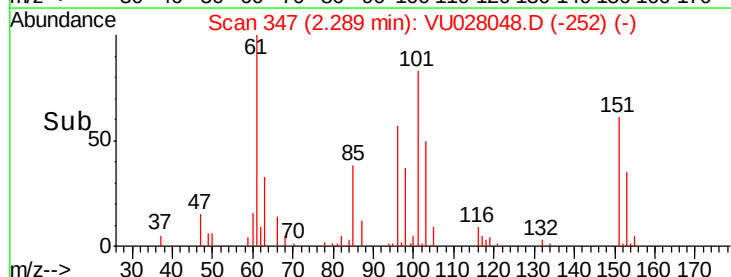
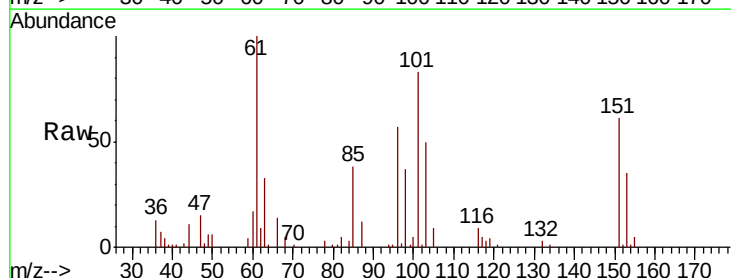
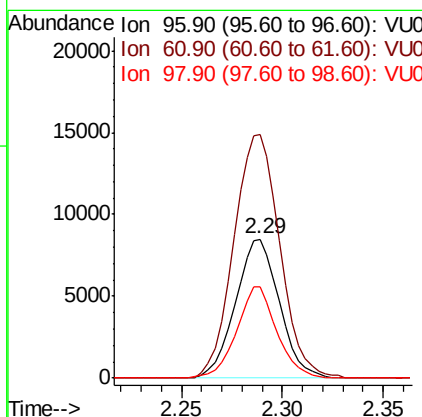
RT: 2.29 min Scan# 347

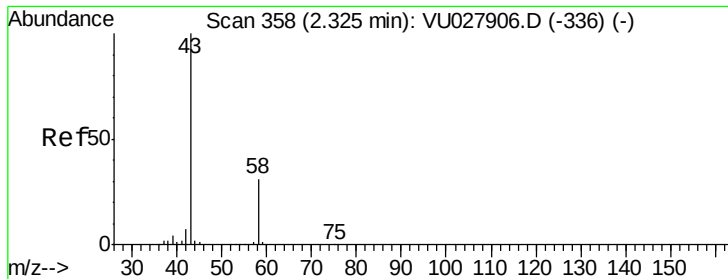
Delta R.T. 0.01 min

Lab File: VU028048.D

Acq: 09 Nov 2018 16:33

Tgt Ion:	96	Resp:	12858
Ion Ratio	Lower	Upper	
96	100		
61	175.5	149.3	223.9
98	65.6	50.6	75.8





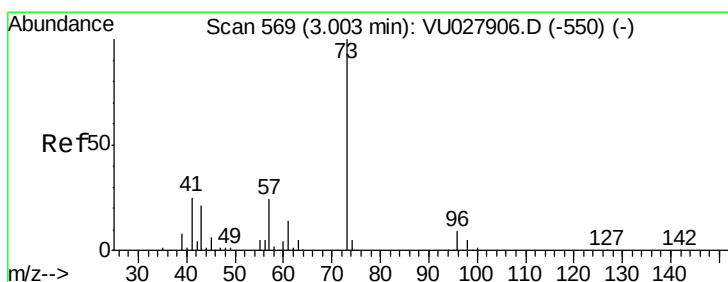
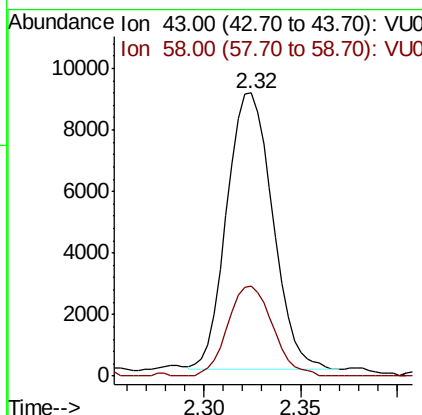
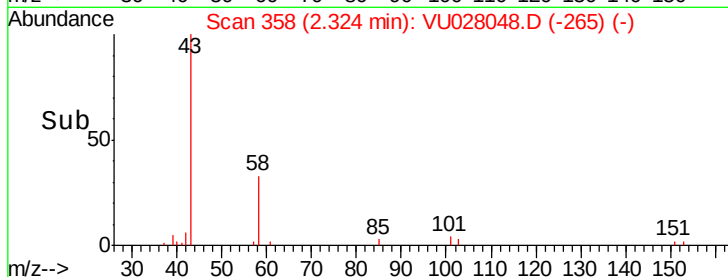
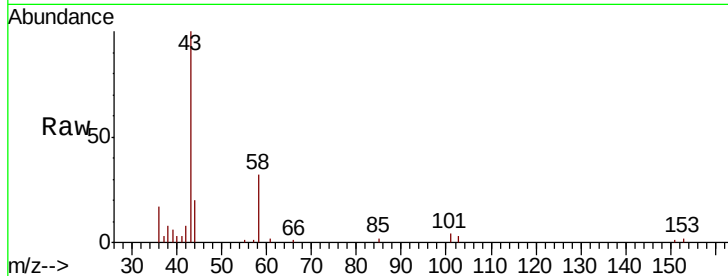
#16
Acetone
Concen: 8.101 ug/l
RT: 2.32 min Scan# 358
Delta R.T. -0.00 min
Lab File: VU028048.D
Acq: 09 Nov 2018 16:33

Instrument :
MSVOA_U
ClientSampled :
MW-4

Tot Ion: 43 Resp: 14859
Ion Ratio Lower Upper
43 100
58 32.6 24.6 37.0

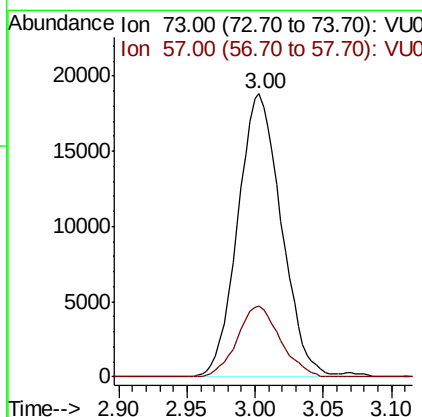
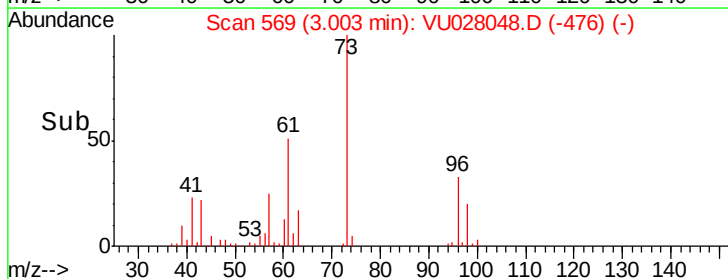
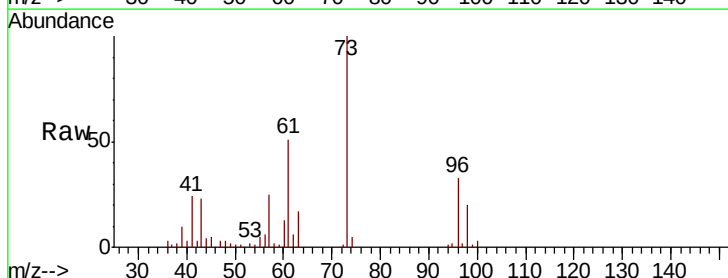
Manual Integrations
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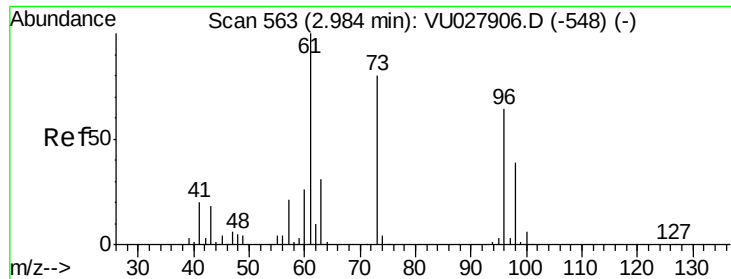
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#19
Methyl tert-butyl Ether
Concen: 4.966 ug/l
RT: 3.00 min Scan# 569
Delta R.T. -0.00 min
Lab File: VU028048.D
Acq: 09 Nov 2018 16:33

Tgt Ion: 73 Resp: 41734
Ion Ratio Lower Upper
73 100
57 25.1 19.3 28.9





#21

trans-1,2-Dichloroethene

Concen: 9.796 ug/l

RT: 2.99 min Scan# 564

Delta R.T. 0.00 min

Lab File: VU028048.D

Acq: 09 Nov 2018 16:33

Instrument :

MSVOA_U

ClientSampleId :

MW-4

Tot Ion: 96 Resp: 23561

Ion Ratio Lower Upper

96 100

61 160.8 125.0 187.6

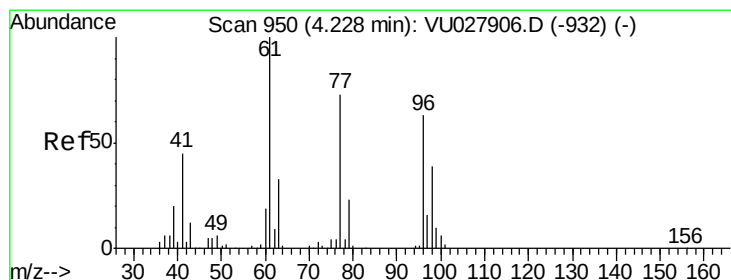
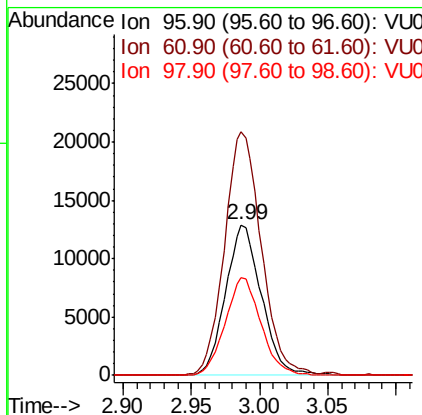
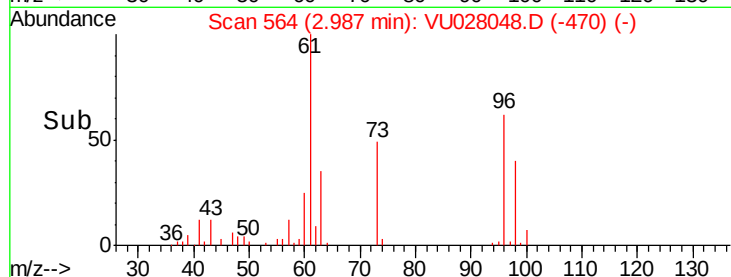
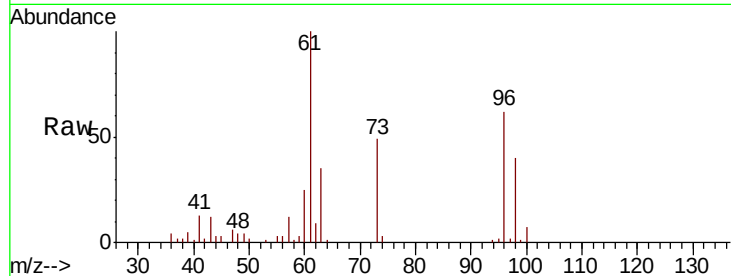
98 64.8 48.2 72.4

Manual Integrations

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#27

cis-1,2-Dichloroethene

Concen: 2528.302 ug/l

RT: 4.23 min Scan# 951

Delta R.T. 0.00 min

Lab File: VU028048.D

Acq: 09 Nov 2018 16:33

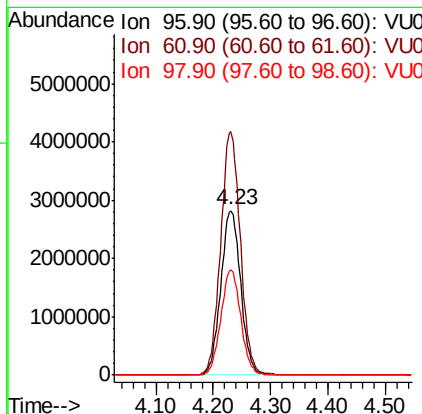
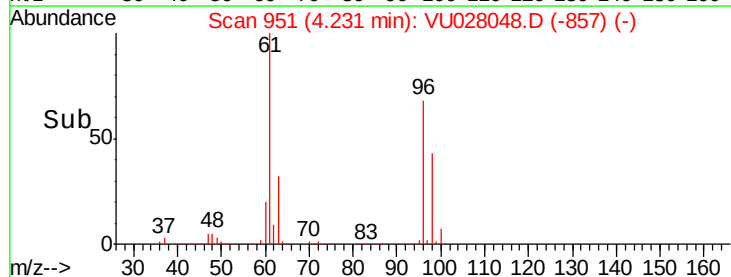
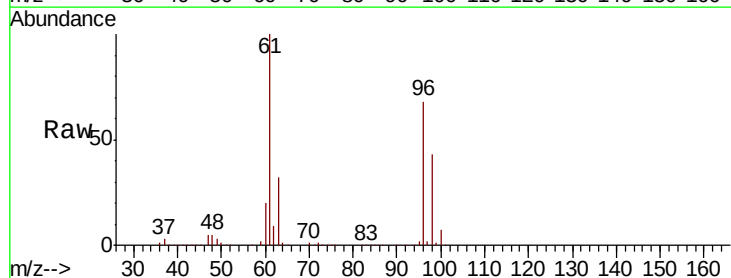
Tgt Ion: 96 Resp: 6818890

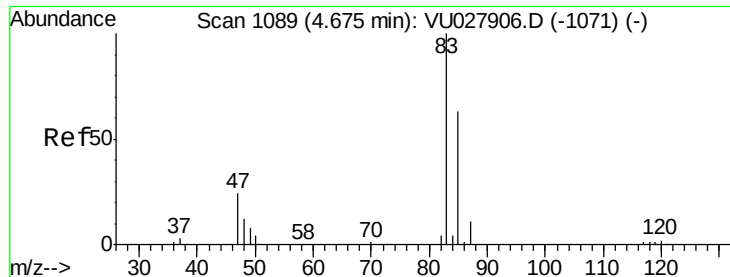
Ion Ratio Lower Upper

96 100

61 146.4 0.0 329.6

98 63.8 0.0 127.2





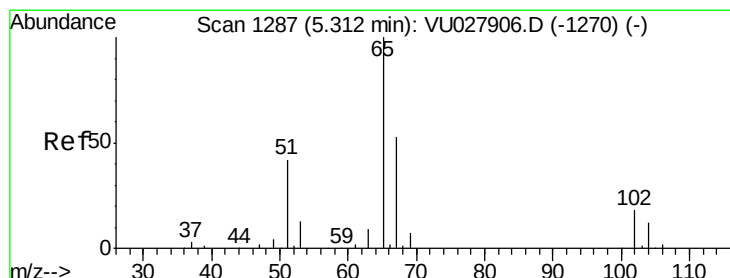
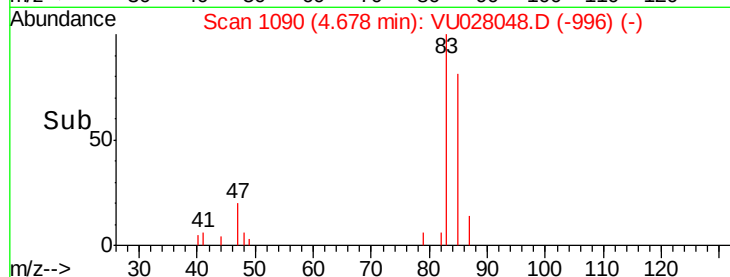
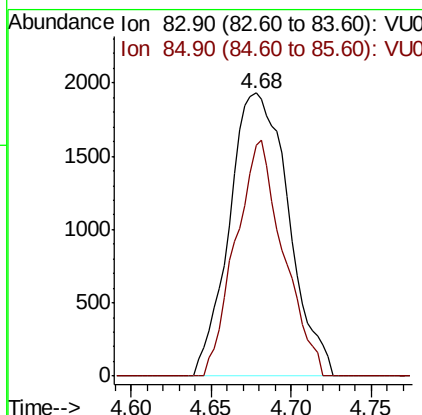
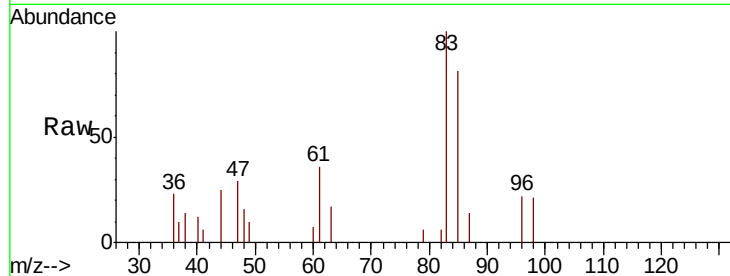
#30
Chloroform
Concen: 1.020 ug/l
RT: 4.68 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VU028048.D
Acq: 09 Nov 2018 16:33

Instrument :
MSVOA_U
ClientSampled :
MW-4

Tot Ion: 83 Resp: 4900
Ion Ratio Lower Upper
83 100
85 81.4 50.6 76.0#

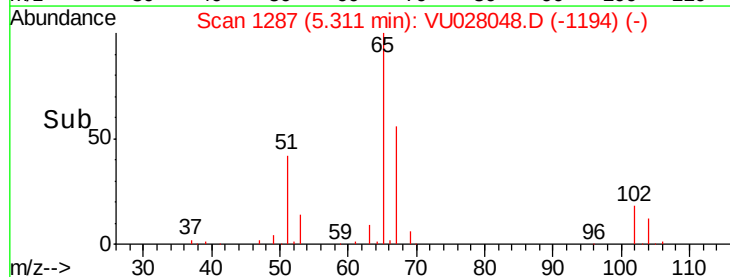
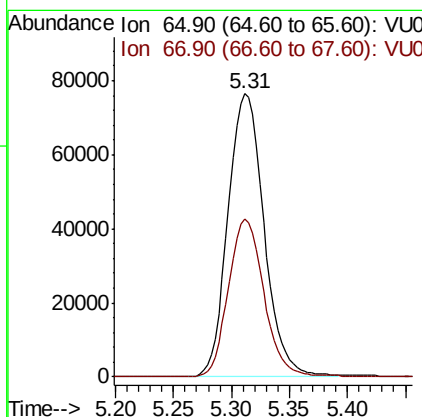
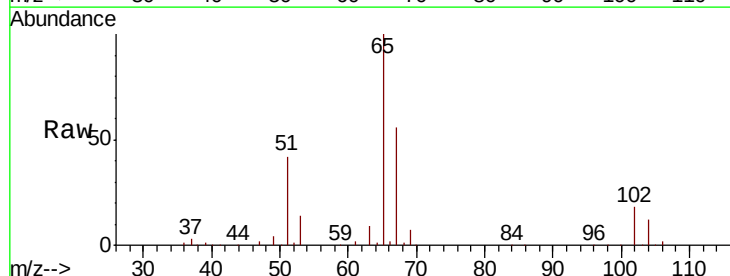
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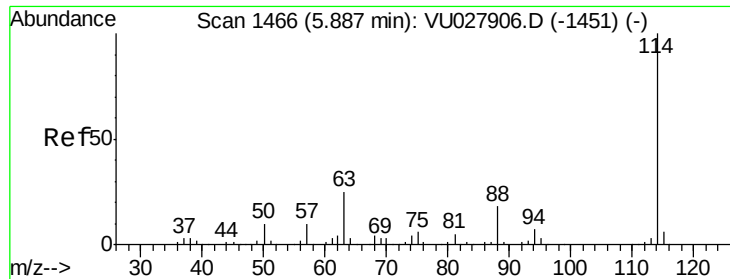
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#33
1,2-Dichloroethane-d4
Concen: 55.905 ug/l
RT: 5.31 min Scan# 1287
Delta R.T. -0.00 min
Lab File: VU028048.D
Acq: 09 Nov 2018 16:33

Tgt Ion: 65 Resp: 165278
Ion Ratio Lower Upper
65 100
67 55.0 0.0 109.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1467

Delta R.T. 0.00 min

Lab File: VU028048.D

Acq: 09 Nov 2018 16:33

Instrument :

MSVOA_U

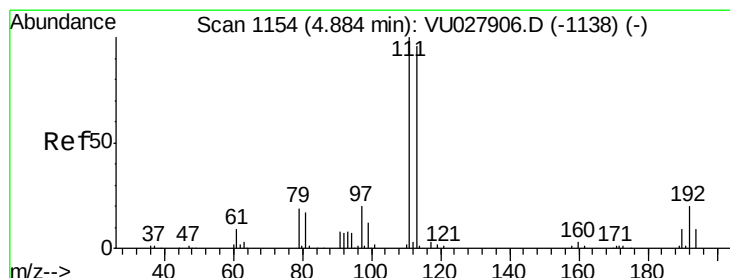
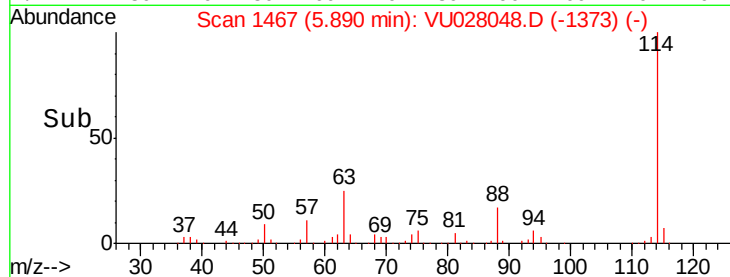
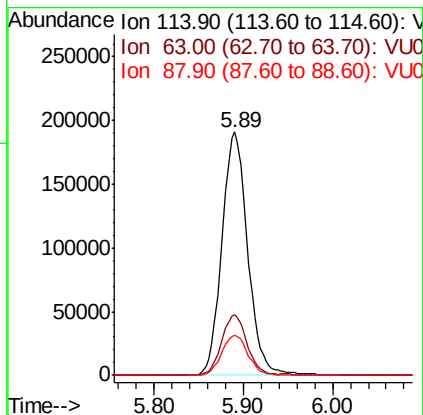
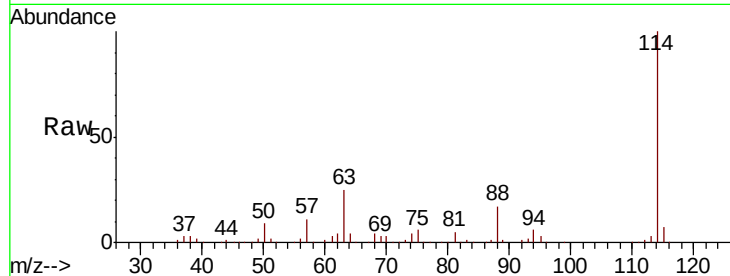
ClientSampled :

MW-4

Tot Ion:	114	Resp:	383478
Ion Ratio	Lower	Upper	
114	100		
63	25.0	0.0	50.8
88	16.5	0.0	35.8

Manual Integrations
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#35

Dibromofluoromethane

Concen: 51.381 ug/l

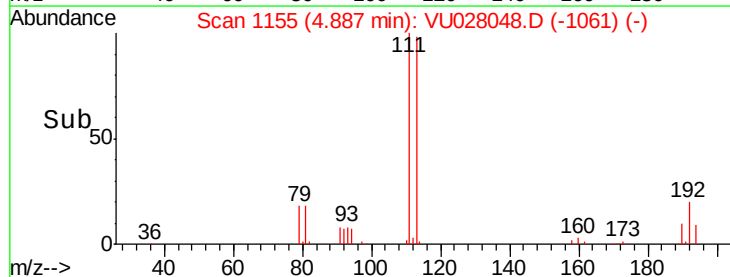
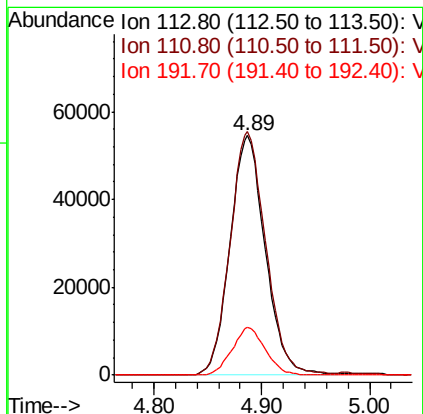
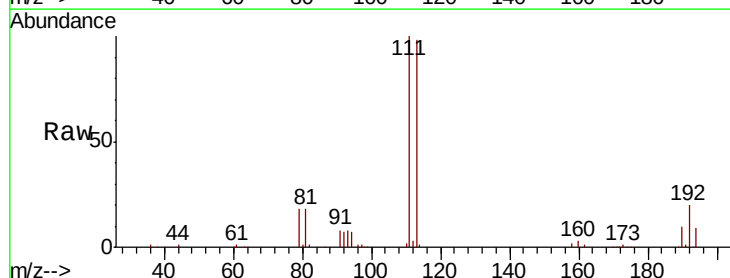
RT: 4.89 min Scan# 1155

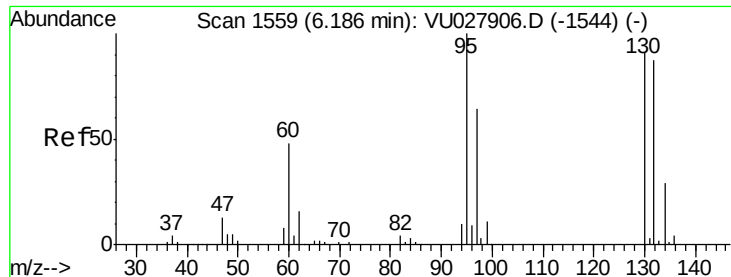
Delta R.T. 0.00 min

Lab File: VU028048.D

Acq: 09 Nov 2018 16:33

Tgt Ion:	113	Resp:	124234
Ion Ratio	Lower	Upper	
113	100		
111	102.9	83.0	124.6
192	18.7	15.6	23.4





#44

Trichloroethene

Concen: 478.210 ug/l

RT: 6.19 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VU028048.D

Acq: 09 Nov 2018 16:33

Instrument :

MSVOA_U

ClientSampled :

MW-4

Tot Ion:130 Resp: 1262232

Ion Ratio Lower Upper

130 100

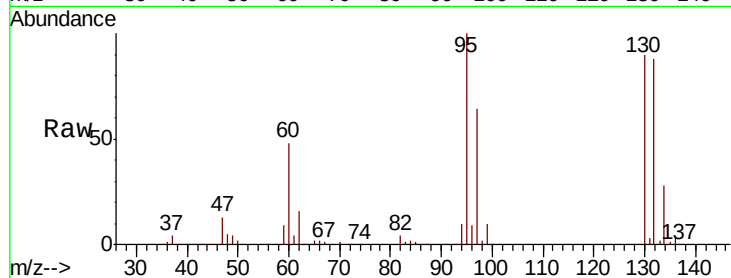
95 110.7 0.0 219.2

Manual Integrations

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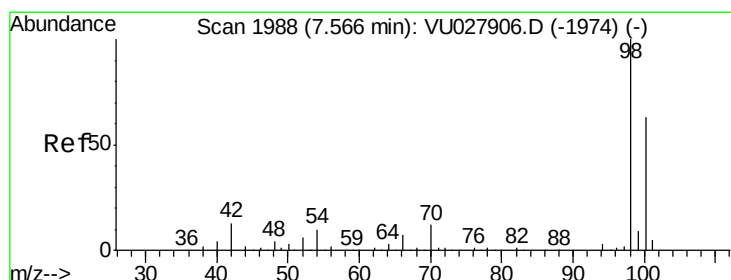
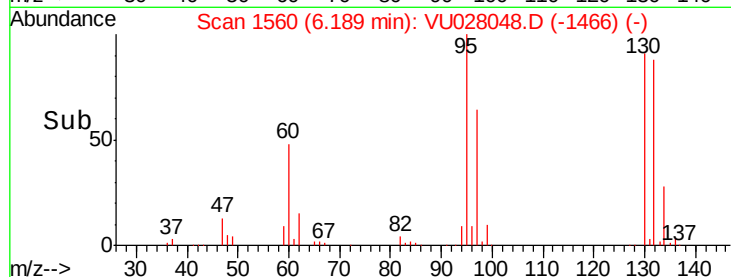
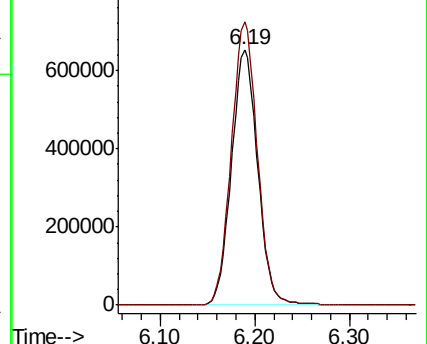
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Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0



#50

Toluene-d8

Concen: 55.938 ug/l

RT: 7.57 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VU028048.D

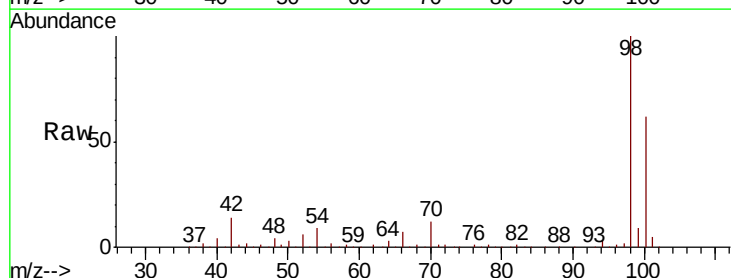
Acq: 09 Nov 2018 16:33

Tgt Ion: 98 Resp: 522462

Ion Ratio Lower Upper

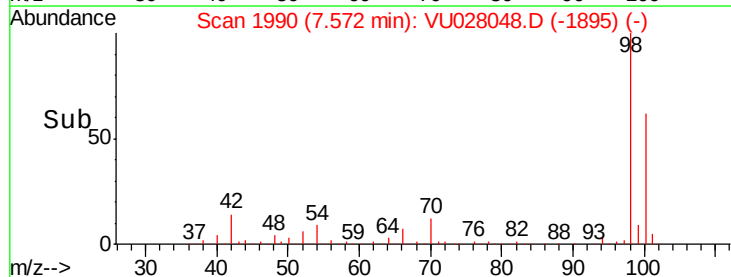
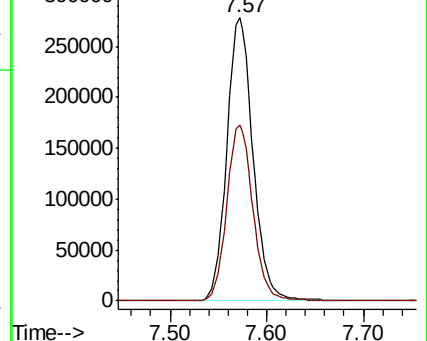
98 100

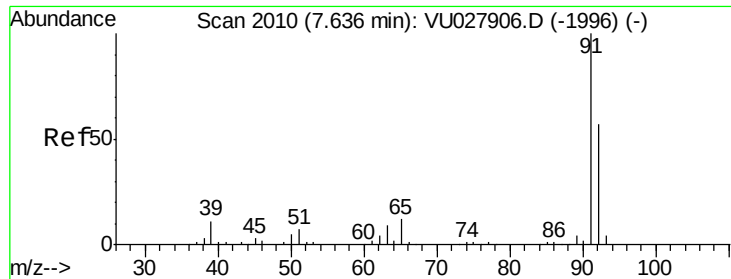
100 62.2 50.1 75.1



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU





#52

Toluene

Concen: 5.868 ug/l

RT: 7.65 min Scan# 2013

Delta R.T. 0.01 min

Lab File: VU028048.D

Acq: 09 Nov 2018 16:33

Instrument :

MSVOA_U

ClientSampled :

MW-4

Tot Ion: 92 Resp: 42359

Ion Ratio Lower Upper

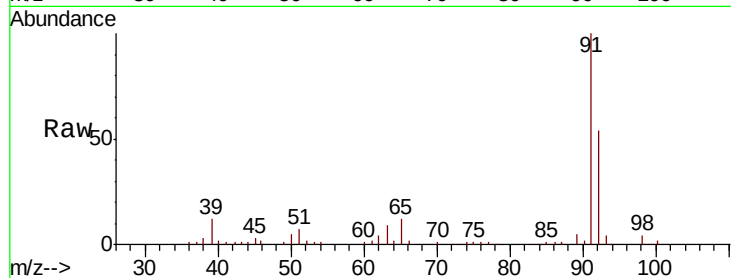
92 100

91 178.1 141.2 211.8

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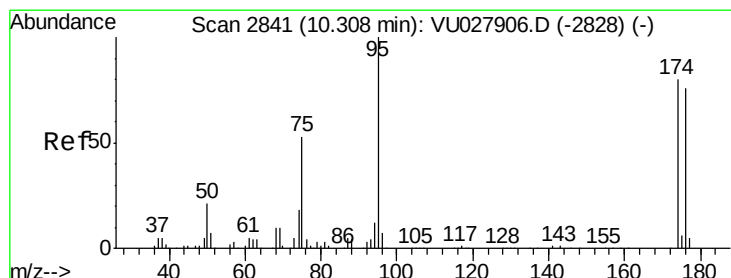
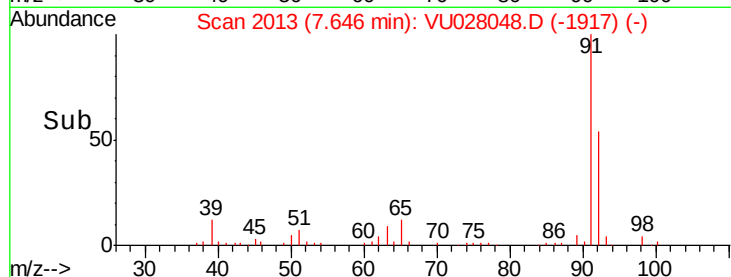
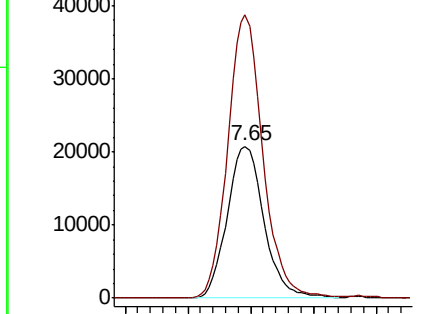
MMDadoda

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Abundance Ion 92.00 (91.70 to 92.70): VU028048.D (-1917) (-)

Ion 91.00 (90.70 to 91.70): VU028048.D (-1917) (-)



#62

4-Bromofluorobenzene

Concen: 57.973 ug/l

RT: 10.31 min Scan# 2842

Delta R.T. 0.00 min

Lab File: VU028048.D

Acq: 09 Nov 2018 16:33

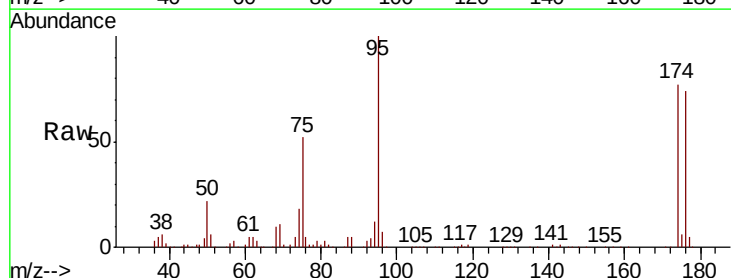
Tgt Ion: 95 Resp: 199720

Ion Ratio Lower Upper

95 100

174 76.5 0.0 156.4

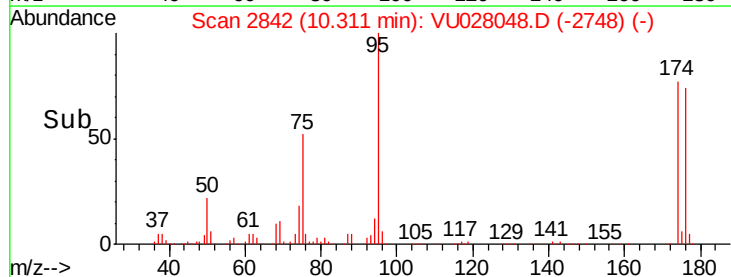
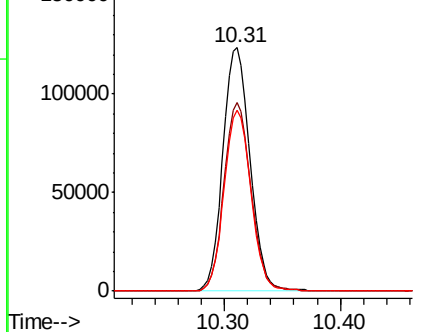
176 73.7 0.0 150.8

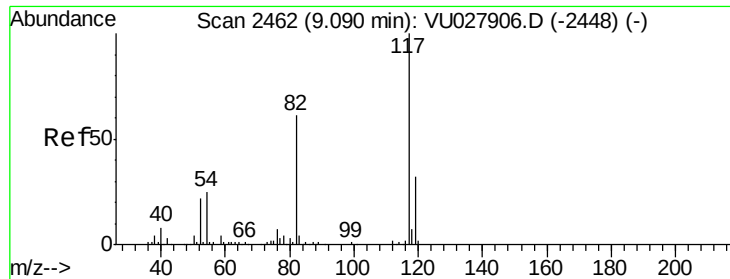


Abundance Ion 94.90 (94.60 to 95.60): VU028048.D (-2748) (-)

Ion 173.80 (173.50 to 174.50): VU028048.D (-2748) (-)

Ion 175.80 (175.50 to 176.50): VU028048.D (-2748) (-)





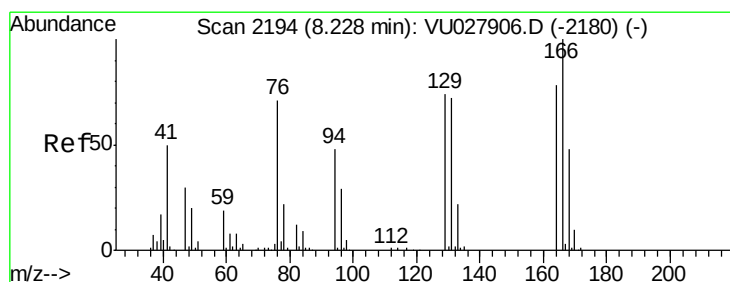
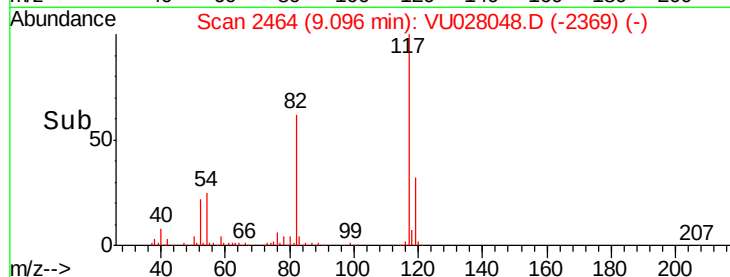
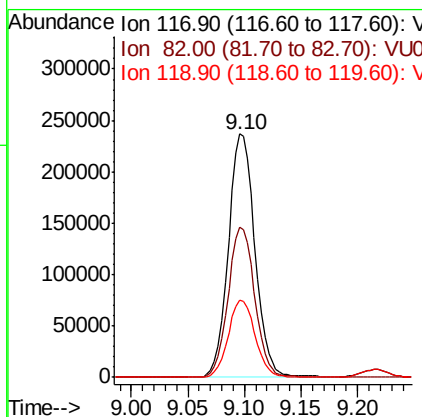
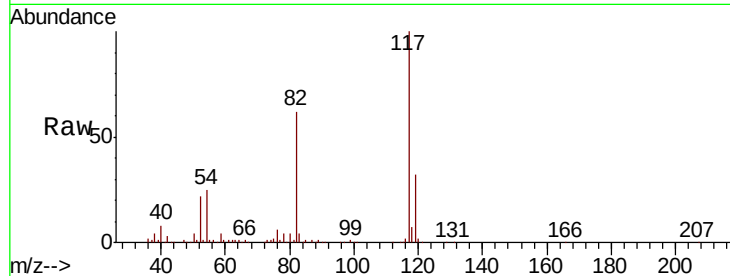
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.10 min Scan# 2464
Delta R.T. 0.01 min
Lab File: VU028048.D
Acq: 09 Nov 2018 16:33

Instrument :
MSVOA_U
ClientSampleId :
MW-4

Tot Ion	Ratio	Resp	Lower	Upper
117	100	387739		
82	61.6	48.6	73.0	
119	31.7	25.8	38.8	

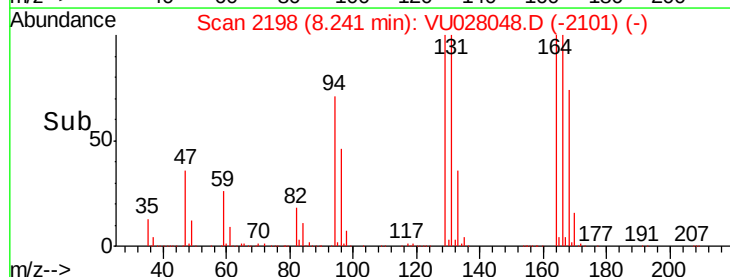
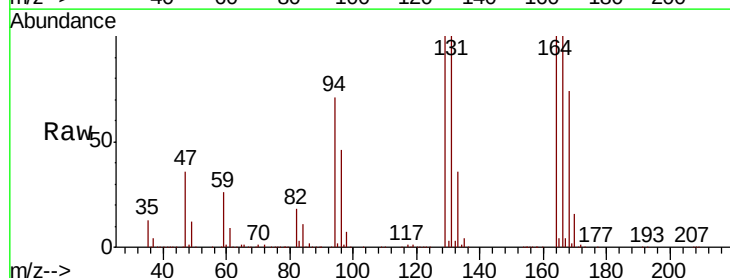
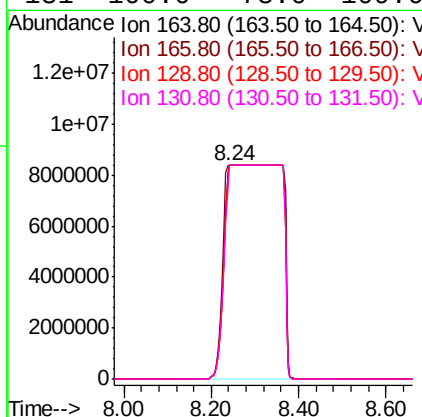
Manual Integrations
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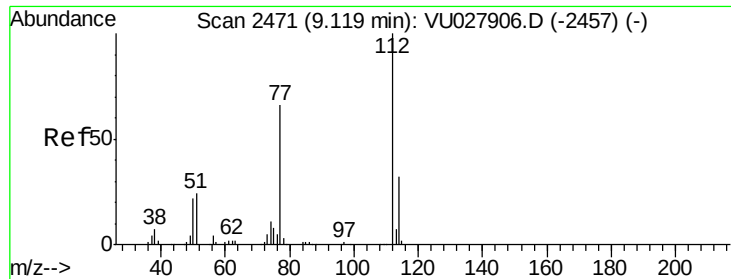
MMDadoda
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#64
Tetrachloroethene
Concen: 28932.595 ug/l m
RT: 8.24 min Scan# 2198
Delta R.T. 0.01 min
Lab File: VU028048.D
Acq: 09 Nov 2018 16:33

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	72742460		
166	100.0	102.1	153.1#	
129	100.0	75.9	113.9	
131	100.0	73.0	109.6	





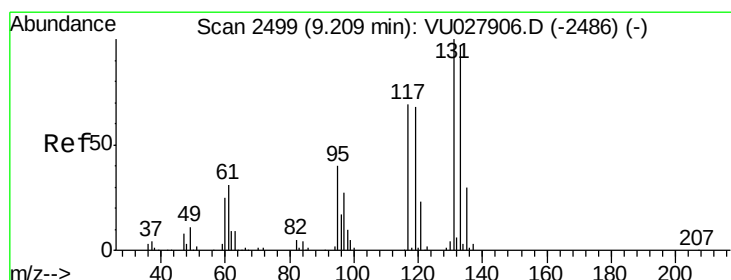
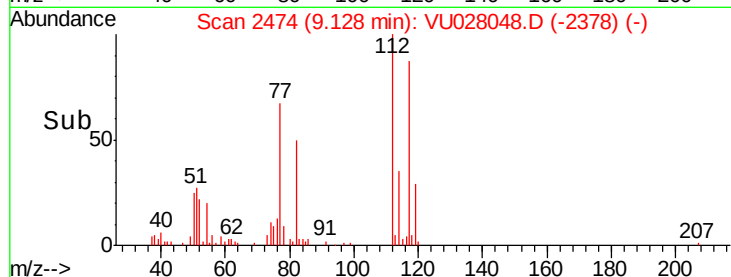
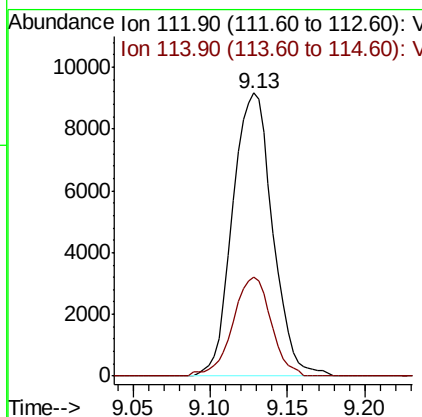
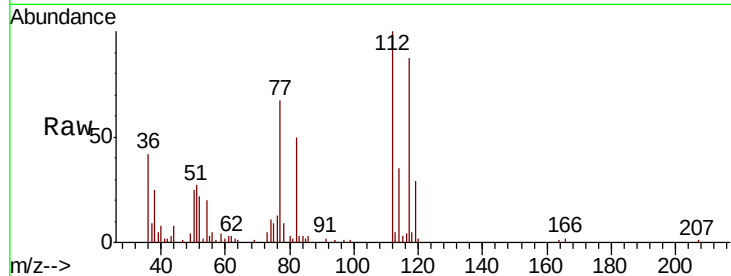
#65
Chlorobenzene
Concen: 2.011 ug/l
RT: 9.13 min Scan# 2474
Delta R.T. 0.01 min
Lab File: VU028048.D
Acq: 09 Nov 2018 16:33

Instrument :
MSVOA_U
ClientSampled :
MW-4

Tot Ion	Ratio	Lower	Upper
112	100		
114	34.9	25.2	37.8

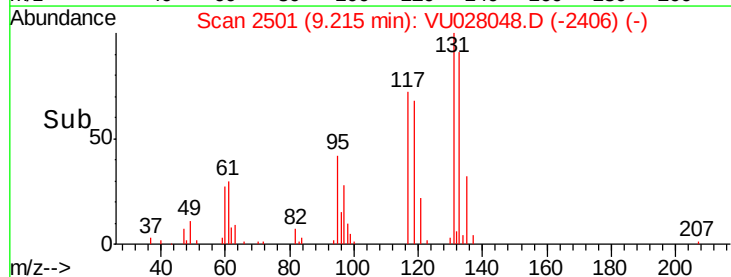
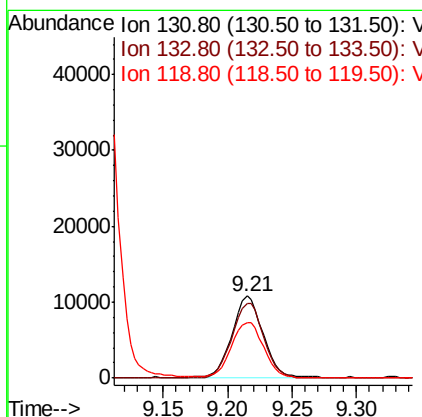
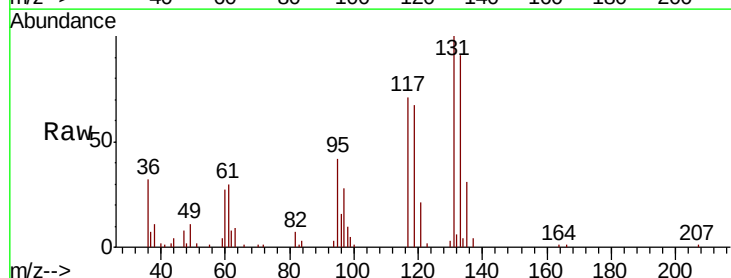
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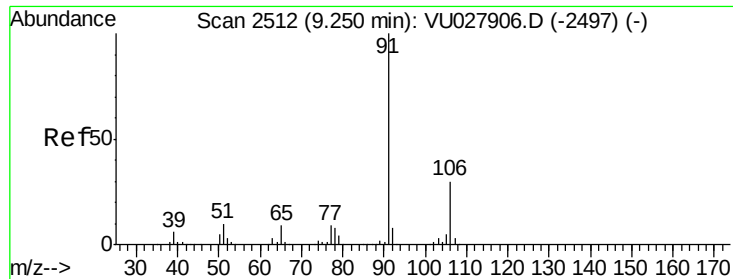
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 6.557 ug/l
RT: 9.21 min Scan# 2501
Delta R.T. 0.01 min
Lab File: VU028048.D
Acq: 09 Nov 2018 16:33

Tgt Ion	Ratio	Lower	Upper
131	100		
133	92.0	48.1	144.4
119	70.6	34.0	101.8





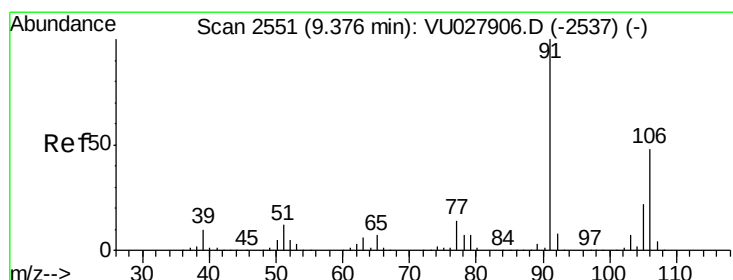
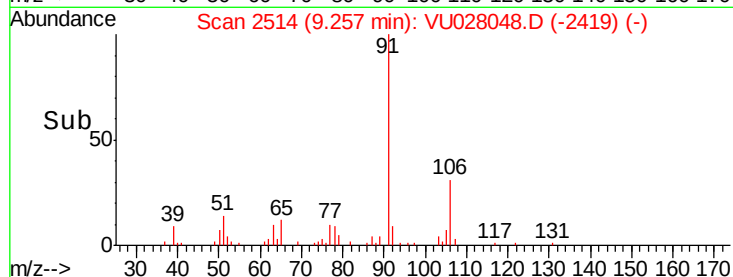
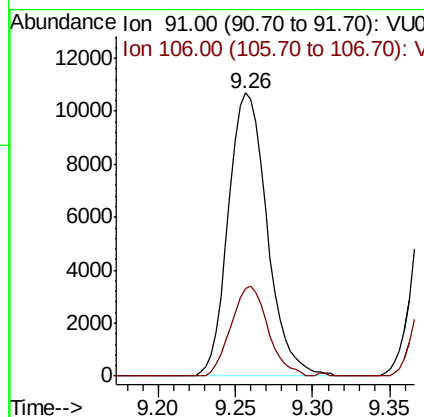
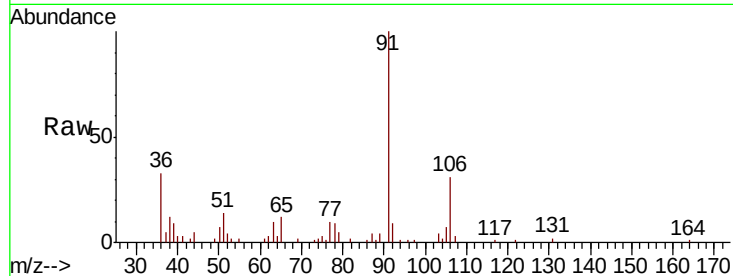
#67
Ethyl Benzene
Concen: 1.233 ug/l
RT: 9.26 min Scan# 2514
Delta R.T. 0.01 min
Lab File: VU028048.D
Acq: 09 Nov 2018 16:33

Instrument :
MSVOA_U
ClientSampled :
MW-4

Tot Ion: 91 Resp: 18592
Ion Ratio Lower Upper
91 100
106 31.1 23.6 35.4

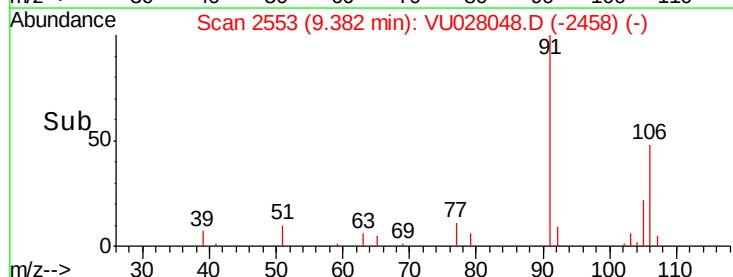
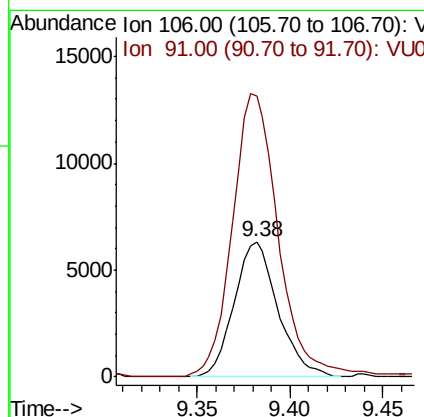
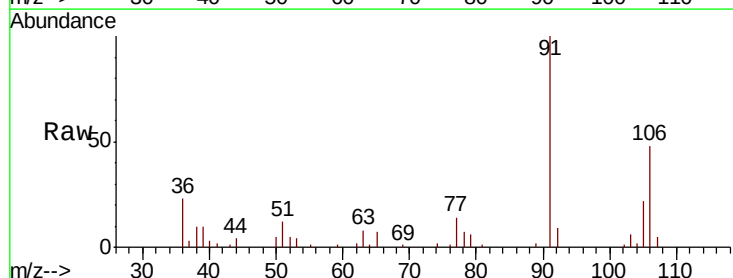
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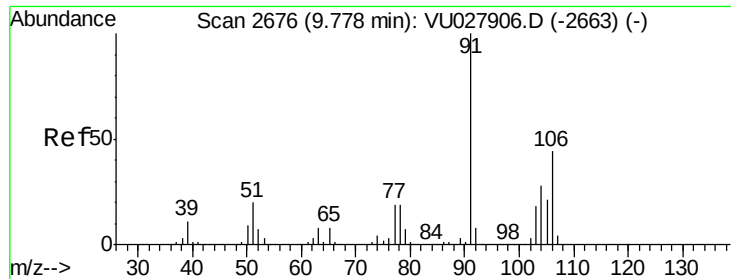
MMDadoda
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#68
m/p-Xylenes
Concen: 1.886 ug/l
RT: 9.38 min Scan# 2553
Delta R.T. 0.01 min
Lab File: VU028048.D
Acq: 09 Nov 2018 16:33

Tgt Ion: 106 Resp: 10317
Ion Ratio Lower Upper
106 100
91 221.6 168.2 252.4





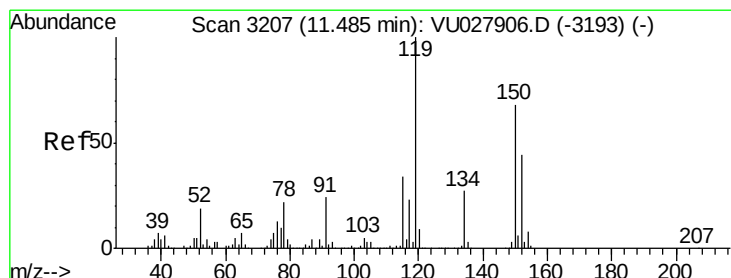
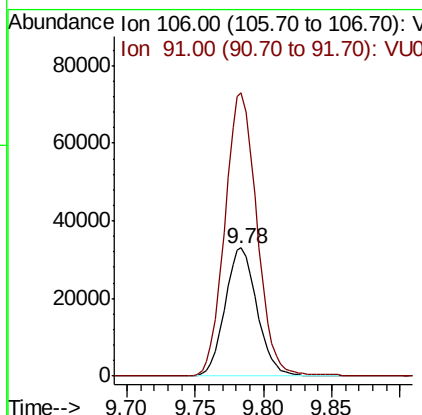
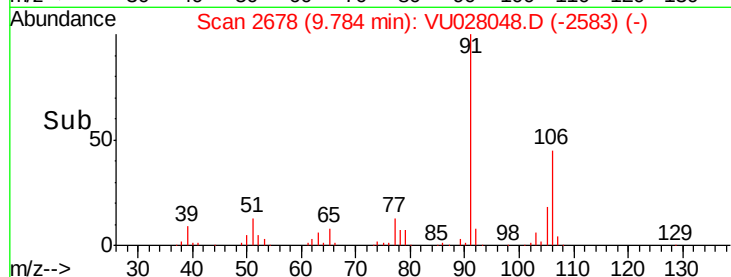
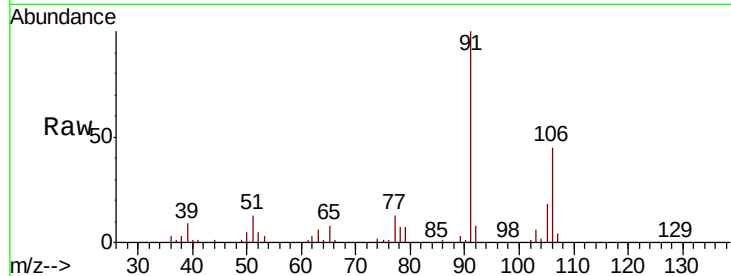
#69
o-Xylene
Concen: 9.781 ug/l
RT: 9.78 min Scan# 2678
Delta R.T. 0.01 min
Lab File: VU028048.D
Acq: 09 Nov 2018 16:33

Instrument :
MSVOA_U
ClientSampled :
MW-4

Tot Ion:106 Resp: 54037
Ion Ratio Lower Upper
106 100
91 219.9 111.1 333.4

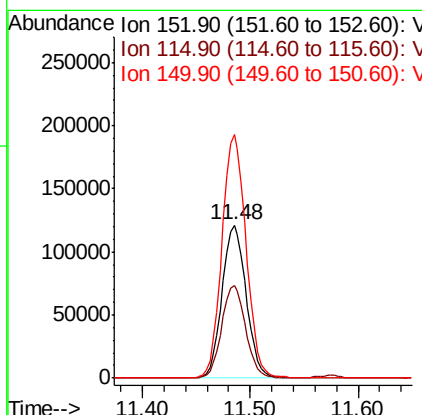
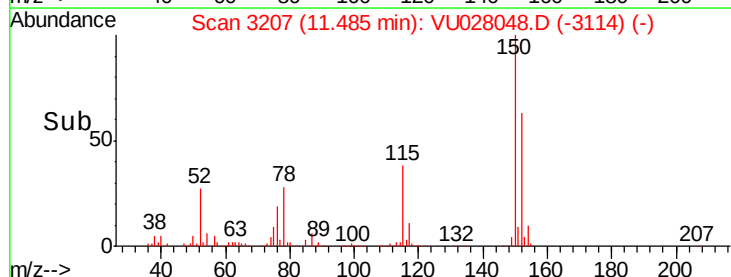
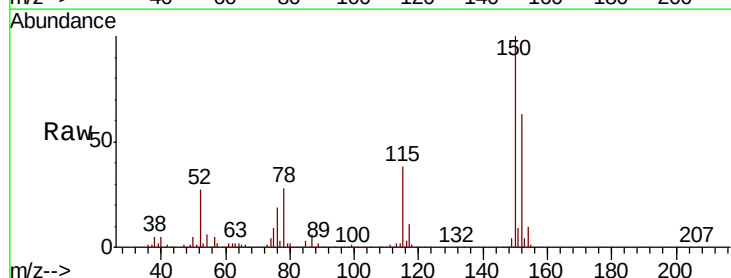
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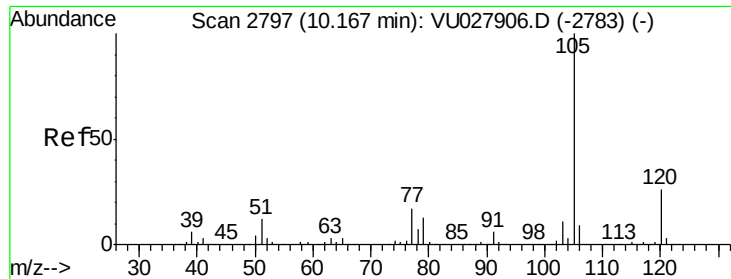
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU028048.D
Acq: 09 Nov 2018 16:33

Tgt Ion:152 Resp: 188247
Ion Ratio Lower Upper
152 100
115 59.9 43.0 129.0
150 159.0 0.0 349.4





#73

Isopropylbenzene

Concen: 5.060 ug/l

RT: 10.17 min Scan# 2798

Delta R.T. 0.00 min

Lab File: VU028048.D

Acq: 09 Nov 2018 16:33

Instrument :

MSVOA_U

ClientSampled :

MW-4

Tot Ion: 105 Resp: 73788

Ion Ratio Lower Upper

105 100

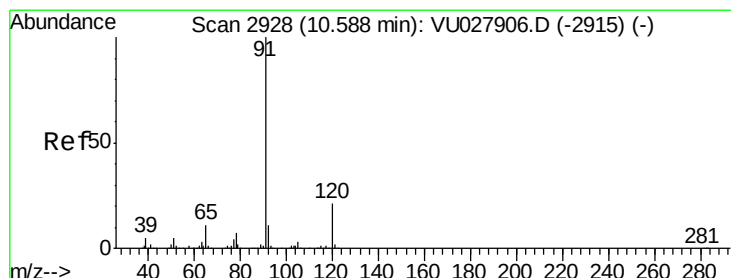
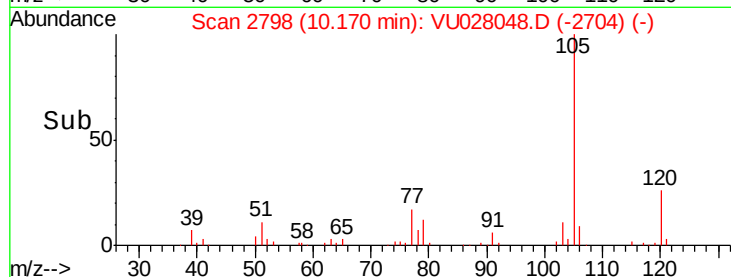
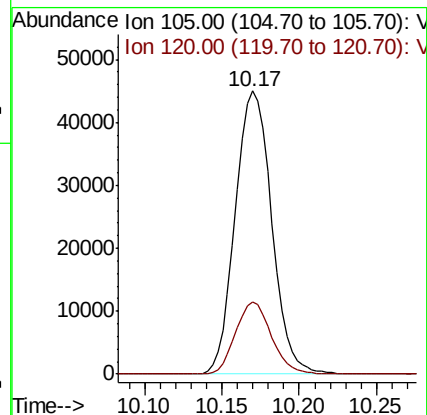
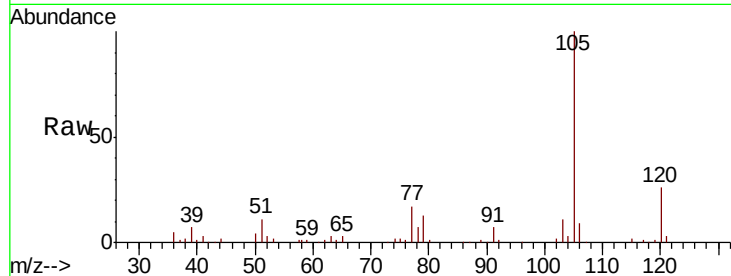
120 25.0 12.7 38.0

Manual Integrations

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#78

n-propylbenzene

Concen: 6.034 ug/l

RT: 10.59 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VU028048.D

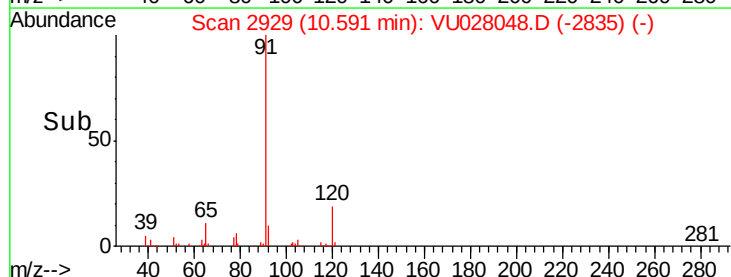
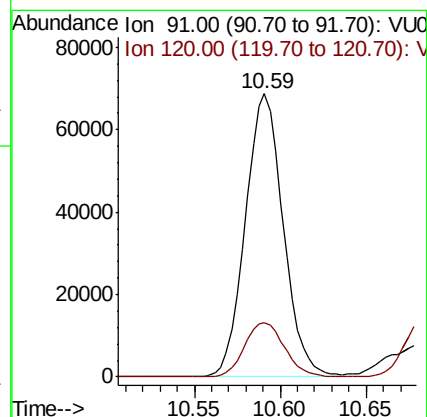
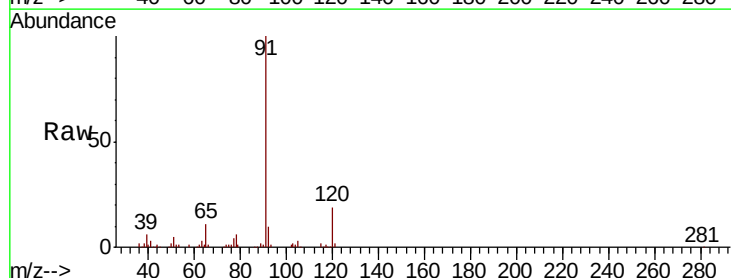
Acq: 09 Nov 2018 16:33

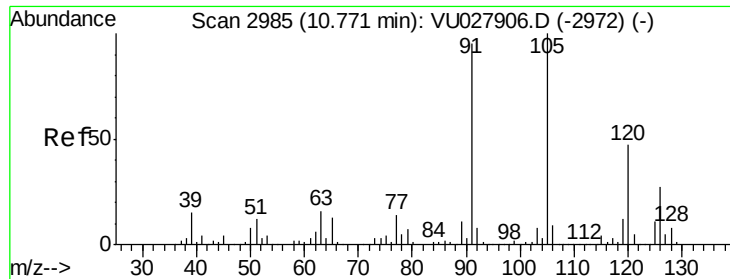
Tgt Ion: 91 Resp: 105325

Ion Ratio Lower Upper

91 100

120 20.3 10.6 31.8





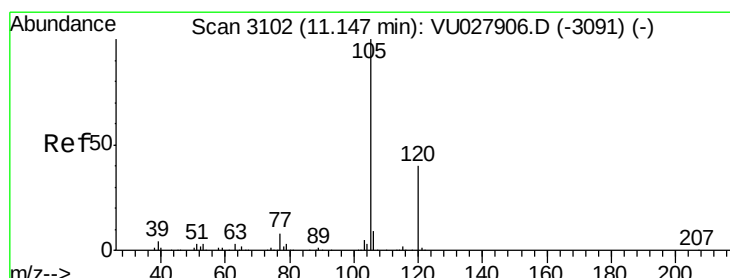
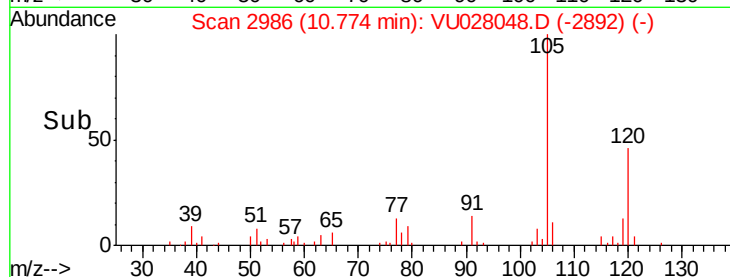
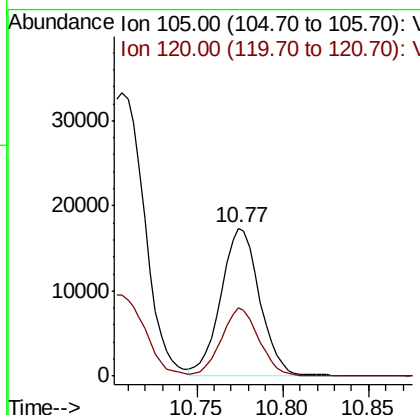
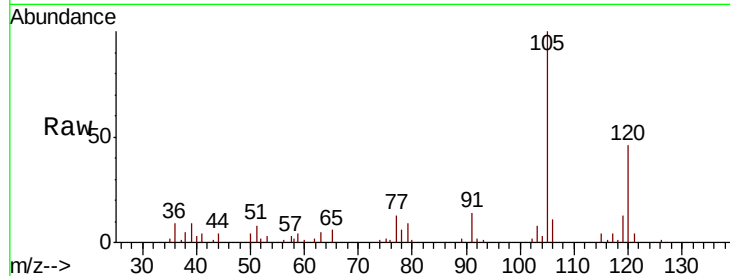
#80
 1,3,5-Trimethylbenzene
 Concen: 2.272 ug/l
 RT: 10.77 min Scan# 2986
 Delta R.T. 0.00 min
 Lab File: VU028048.D
 Acq: 09 Nov 2018 16:33

Instrument :
 MSVOA_U
 ClientSampled :
 MW-4

Tot Ion:105 Resp: 27446
 Ion Ratio Lower Upper
 105 100
 120 44.1 23.3 69.9

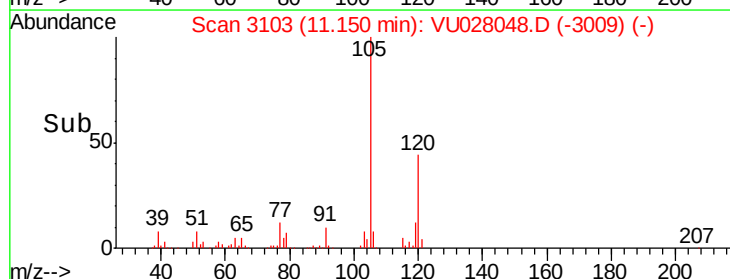
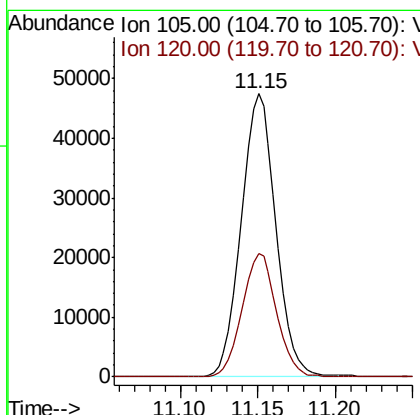
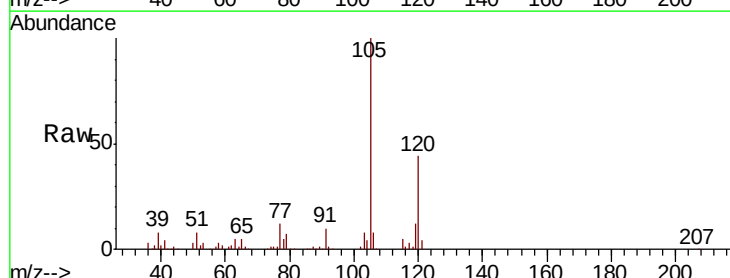
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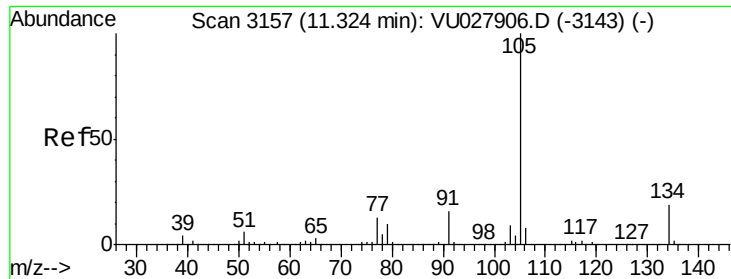
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#84
 1,2,4-Trimethylbenzene
 Concen: 6.080 ug/l
 RT: 11.15 min Scan# 3103
 Delta R.T. 0.00 min
 Lab File: VU028048.D
 Acq: 09 Nov 2018 16:33

Tgt Ion:105 Resp: 73967
 Ion Ratio Lower Upper
 105 100
 120 43.1 22.1 66.1





#85

sec-Butylbenzene

Concen: 0.269 ug/l

RT: 11.33 min Scan# 3158

Delta R.T. 0.00 min

Lab File: VU028048.D

Acq: 09 Nov 2018 16:33

Instrument :

MSVOA_U

ClientSampled :

MW-4

Tot Ion:105 Resp: 3958

Ion Ratio Lower Upper

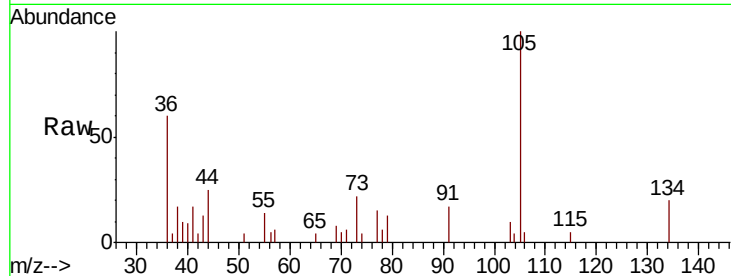
105 100

134 17.9 9.2 27.6

Manual Integrations
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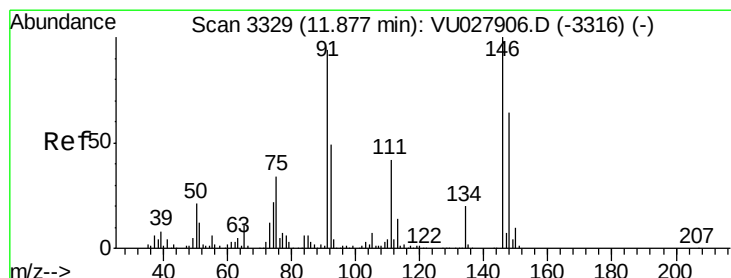
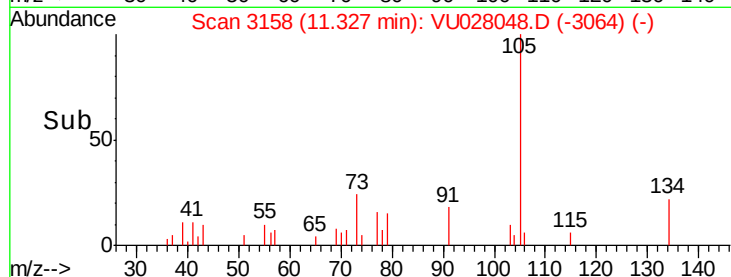
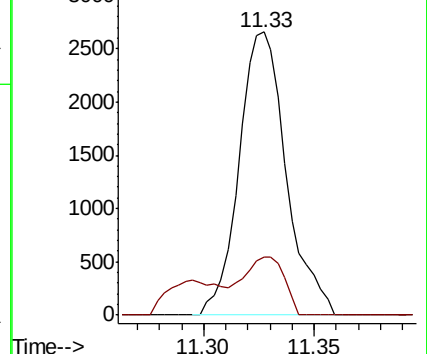
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#91

1,2-Dichlorobenzene

Concen: 2.511 ug/l

RT: 11.88 min Scan# 3331

Delta R.T. 0.01 min

Lab File: VU028048.D

Acq: 09 Nov 2018 16:33

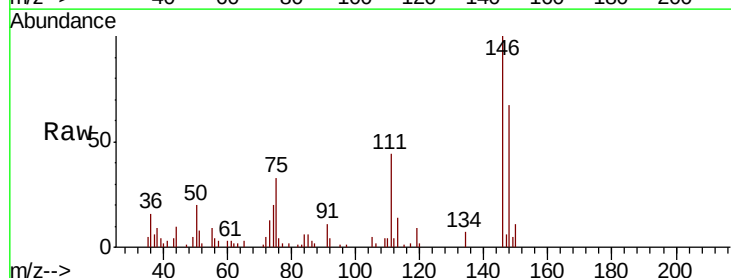
Tgt Ion:146 Resp: 15601

Ion Ratio Lower Upper

146 100

111 43.1 21.3 64.0

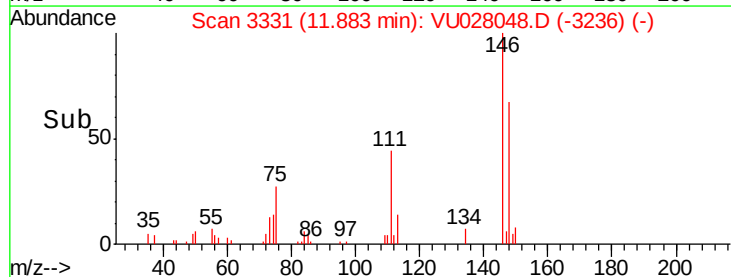
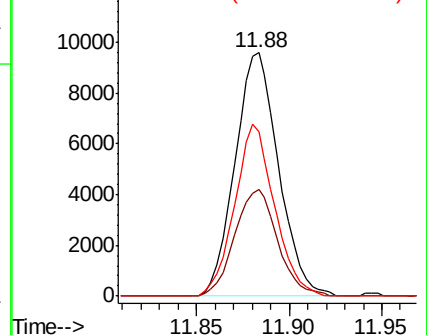
148 64.4 31.8 95.3

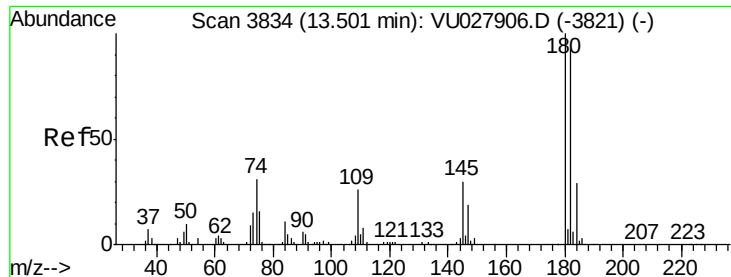


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





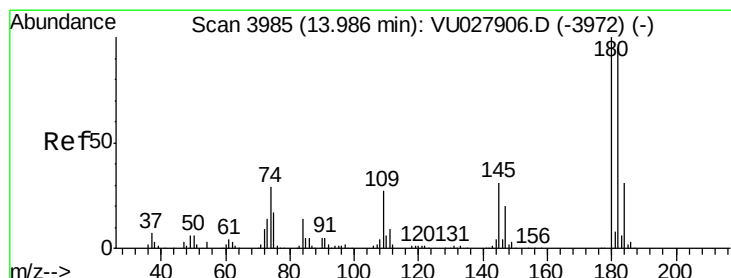
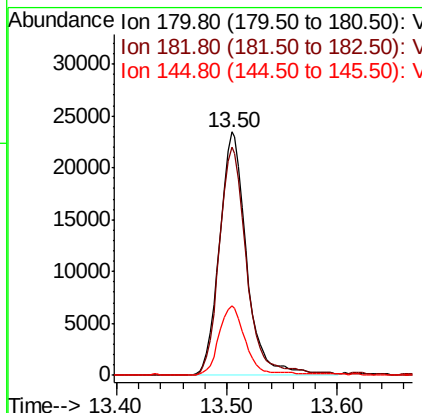
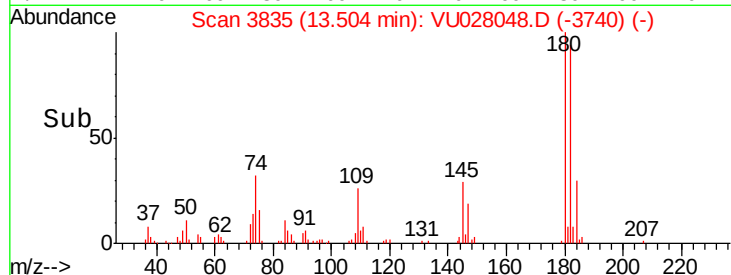
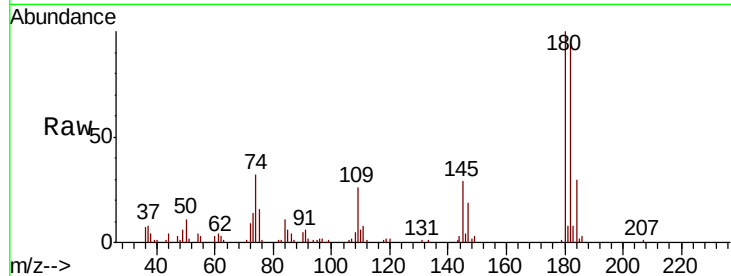
#93
 1,2,4-Trichlorobenzene
 Concen: 9.773 ug/l
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU028048.D
 Acq: 09 Nov 2018 16:33

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-4

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.7	48.4	145.2
145	27.9	14.9	44.5

Manual Integrations
 APPROVED

MMDadoda
 11/12/2018 12:02:17 PM



#96
 1,2,3-Trichlorobenzene
 Concen: 3.198 ug/l
 RT: 13.99 min Scan# 3986
 Delta R.T. 0.00 min
 Lab File: VU028048.D
 Acq: 09 Nov 2018 16:33

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.2	47.4	142.3
145	33.3	16.0	47.9

