

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071218\
 Data File : VU025356.D
 Acq On : 12 Jul 2018 21:59
 Operator : MD/SY
 Sample : J3922-11
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 SS037MW266-180709

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 11:44:18 AM

Quant Time: Jul 13 10:40:53 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U070918W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 10 09:34:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	190068	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	297546	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	270385	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	145541	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	147238	49.86	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.72%	
35) Dibromofluoromethane	4.89	113	114820	45.74	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.48%	
50) Toluene-d8	7.57	98	419084	48.76	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.52%	
62) 4-Bromofluorobenzene	10.31	95	155144	44.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.66%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.40	62	6890	3.188	ug/l #	86
18) Methyl Acetate	2.62	43	7557	2.500	ug/l	96
27) cis-1,2-Dichloroethene	4.23	96	51586	20.250	ug/l	91
31) Cyclohexane	5.00	56	41189	11.623	ug/l	95
39) Methylcyclohexane	6.42	83	25170	6.100	ug/l	93
40) Benzene	5.40	78	7280	0.764	ug/l	99
44) Trichloroethene	6.19	130	33345	12.182	ug/l	100
64) Tetrachloroethene	8.23	164	29589	12.005	ug/l	93
65) Chlorobenzene	9.12	112	198060	29.323	ug/l	100
73) Isopropylbenzene	10.17	105	36255	3.260	ug/l	98
78) n-propylbenzene	10.59	91	54724	4.435	ug/l	98
83) tert-Butylbenzene	11.10	119	11894	1.258	ug/l	88
85) sec-Butylbenzene	11.33	105	25339	2.276	ug/l	98
87) 1,3-Dichlorobenzene	11.42	146	1705m	0.328	ug/l	
88) 1,4-Dichlorobenzene	11.51	146	10094	3.416	ug/l #	81
89) n-Butylbenzene	11.89	91	11552	1.426	ug/l #	68
91) 1,2-Dichlorobenzene	11.89	146	2378	0.453	ug/l	88
95) Naphthalene	13.75	128	2756	2.659	ug/l #	78

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

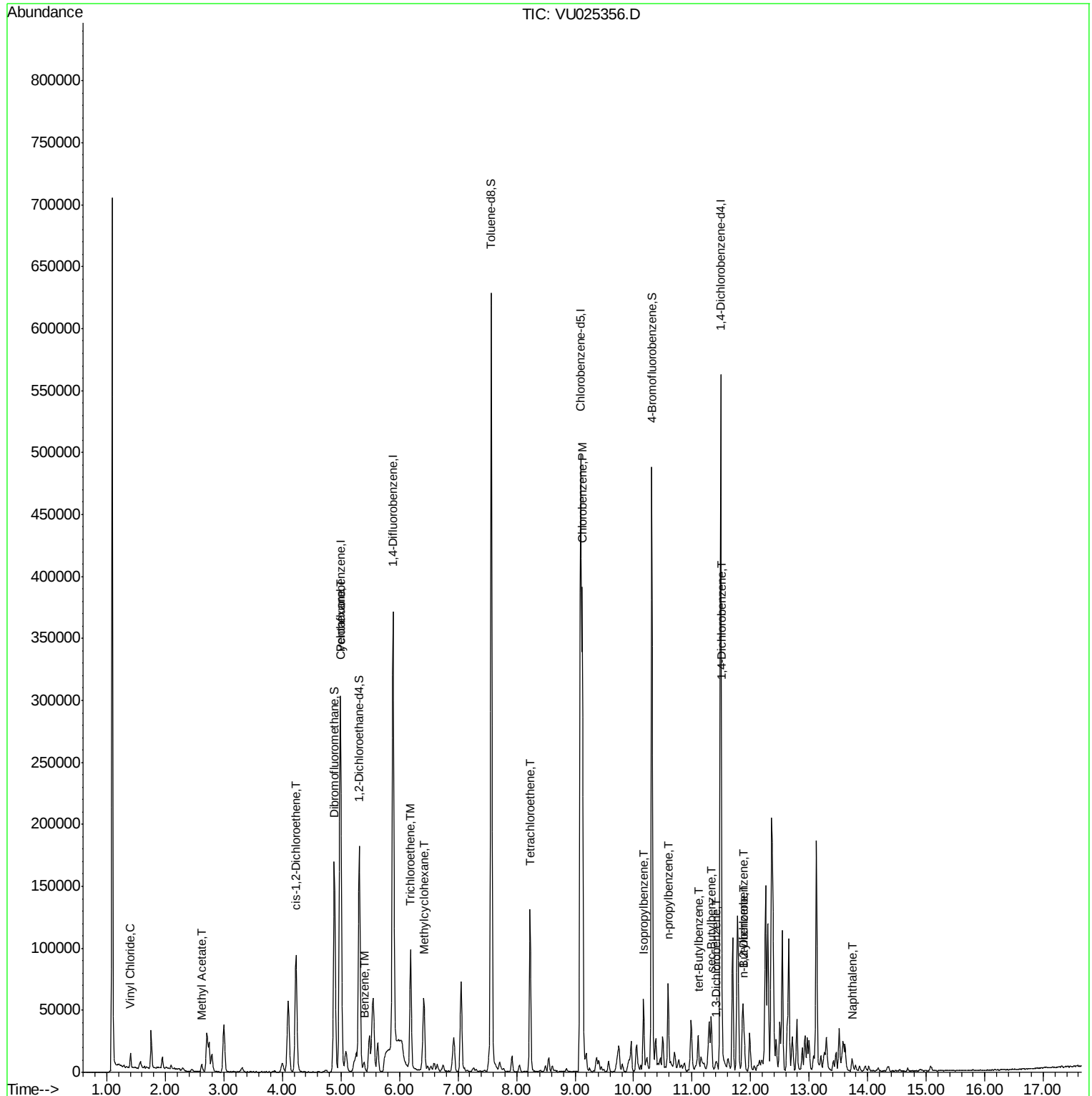
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU071218\
Data File : VU025356.D
Acq On : 12 Jul 2018 21:59
Operator : MD/SY
Sample : J3922-11
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 26 Sample Multiplier: 1

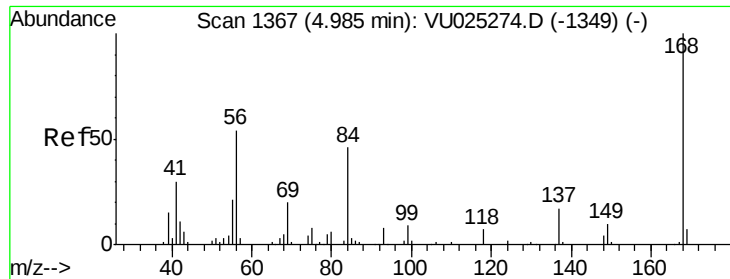
Instrument :
MSVOA_U
ClientSampleId :
SS037MW266-180709

Manual Integrations
APPROVED

MMDadoda
7/13/2018 11:44:18 AM

Quant Time: Jul 13 10:40:53 2018
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U070918W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 10 09:34:16 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025356.D

Acq: 12 Jul 2018 21:59

Instrument :

MSVOA_U

ClientSampleId :

SS037MW266-180709

Tot Ion:168 Resp: 190068

Ion Ratio Lower Upper

168 100

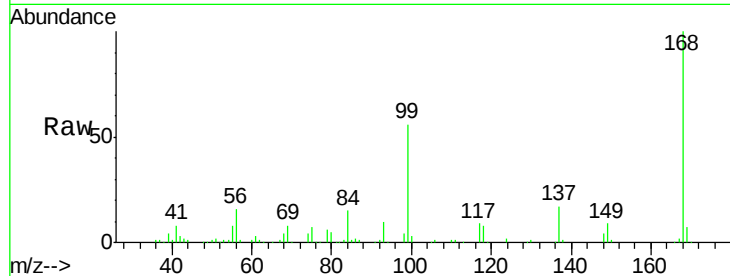
99 56.4 42.8 64.2

Manual Integrations

APPROVED

MMDadoda

7/13/2018 11:44:18 AM



Abundance Ion 167.90 (167.60 to 168.60): VU025274.D (-1349) (-)

Ion 98.90 (98.60 to 99.60): VU025274.D (-1349) (-)

4.99

80000

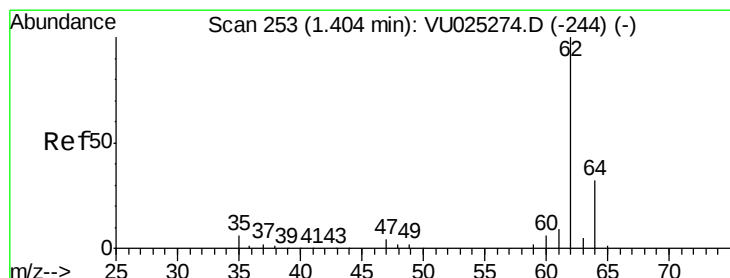
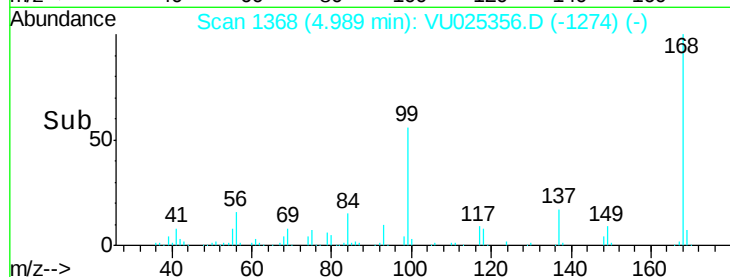
60000

40000

20000

0

Time-->



#4

Vinyl Chloride

Concen: 3.188 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU025356.D

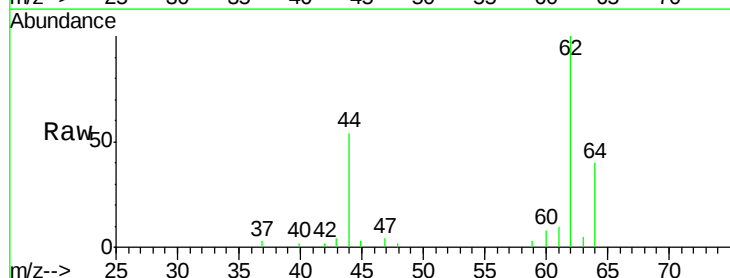
Acq: 12 Jul 2018 21:59

Tgt Ion: 62 Resp: 6890

Ion Ratio Lower Upper

62 100

64 39.5 25.4 38.0#



Abundance Ion 61.90 (61.60 to 62.60): VU025274.D (-244) (-)

Ion 63.90 (63.60 to 64.60): VU025274.D (-244) (-)

1.40

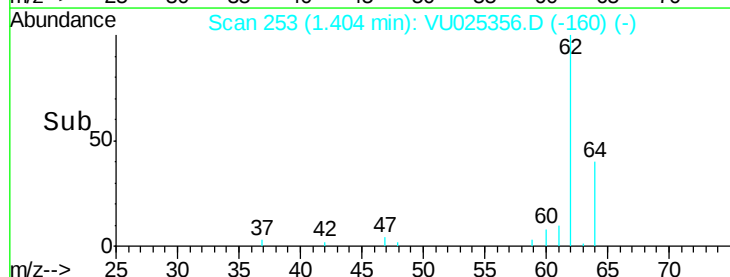
6000

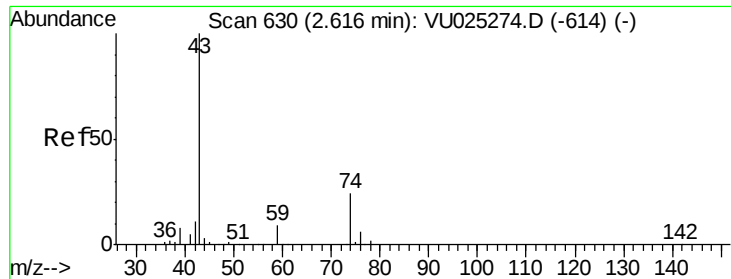
4000

2000

0

Time-->





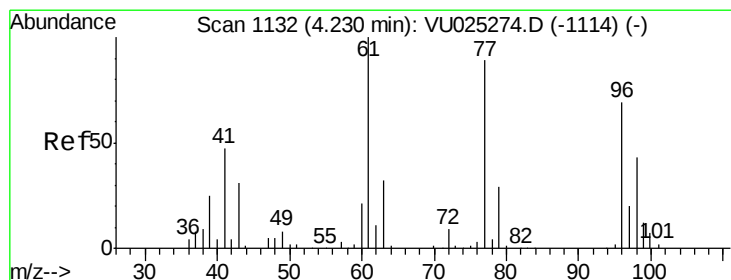
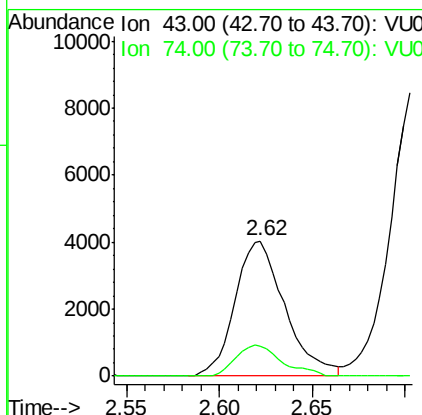
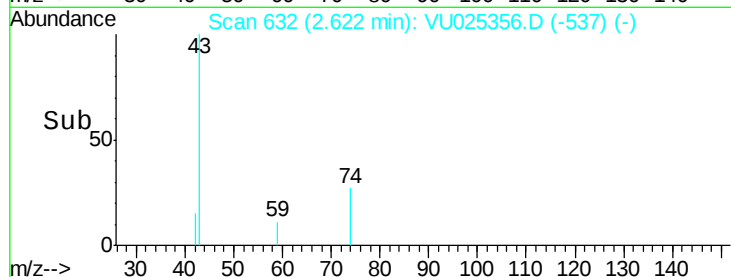
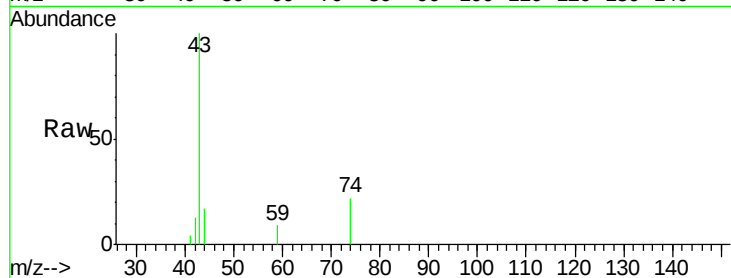
#18
Methvl Acetate
Concen: 2.500 ug/l
RT: 2.62 min Scan# 632
Delta R.T. 0.01 min
Lab File: VU025356.D
Acq: 12 Jul 2018 21:59

Instrument :
MSVOA_U
ClientSampleId :
SS037MW266-180709

Tot Ion: 43 Resp: 7557
Ion Ratio Lower Upper
43 100
74 21.3 18.5 27.7

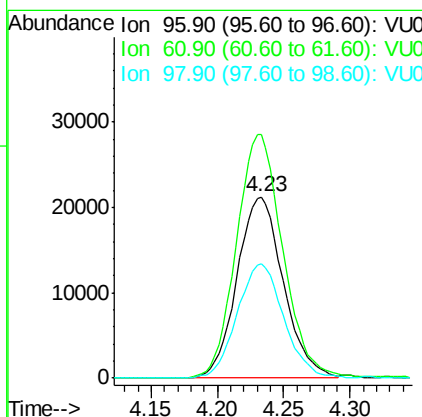
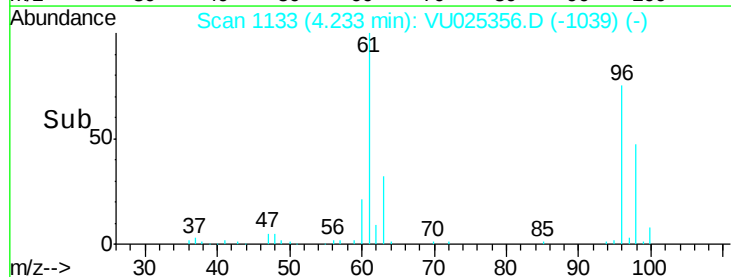
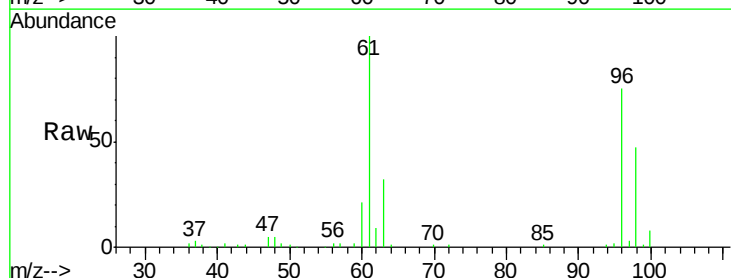
Manual Integrations
APPROVED

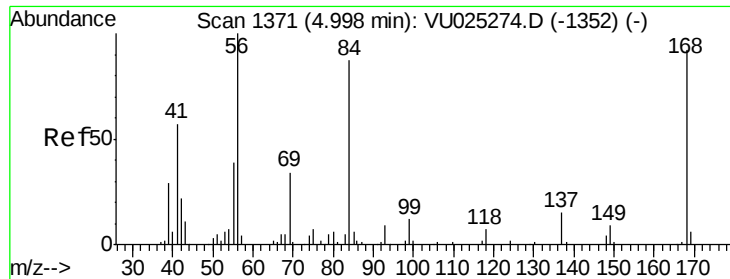
MMDadoda
7/13/2018 11:44:18 AM



#27
cis-1,2-Dichloroethene
Concen: 20.250 ug/l
RT: 4.23 min Scan# 1133
Delta R.T. 0.00 min
Lab File: VU025356.D
Acq: 12 Jul 2018 21:59

Tgt Ion: 96 Resp: 51586
Ion Ratio Lower Upper
96 100
61 134.9 0.0 299.8
98 63.6 0.0 128.6





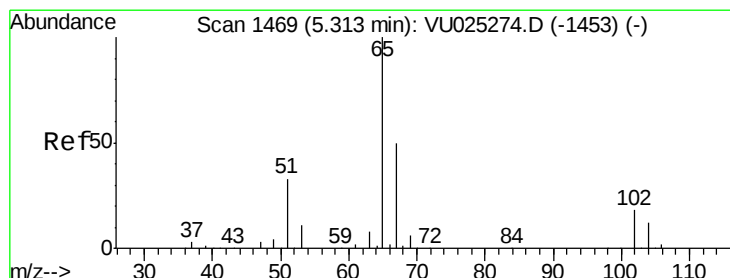
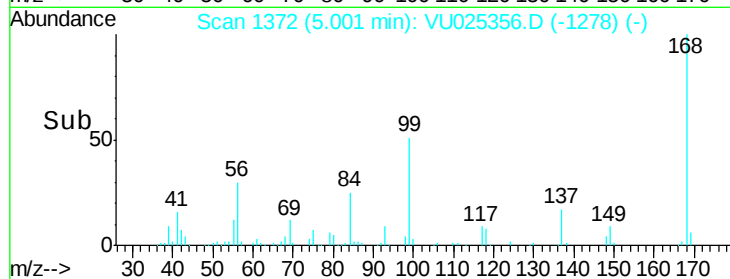
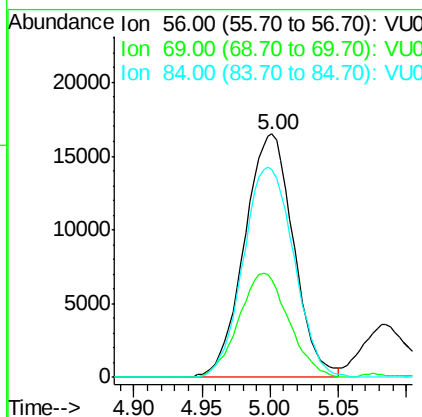
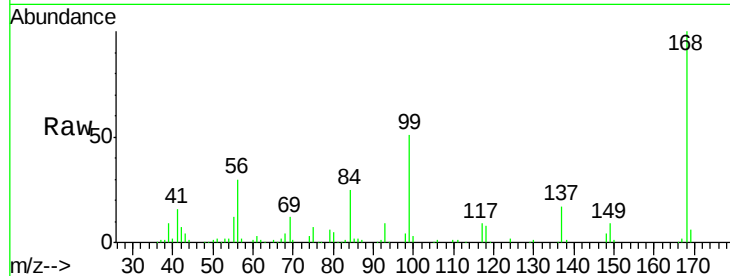
#31
Cyclohexane
Concen: 11.623 ug/l
RT: 5.00 min Scan# 1372
Delta R.T. 0.00 min
Lab File: VU025356.D
Acq: 12 Jul 2018 21:59

Instrument :
MSVOA_U
ClientSampleId :
SS037MW266-180709

Tot Ion	Ratio	Lower	Upper
56	100		
69	40.1	26.8	40.2
84	85.3	69.7	104.5

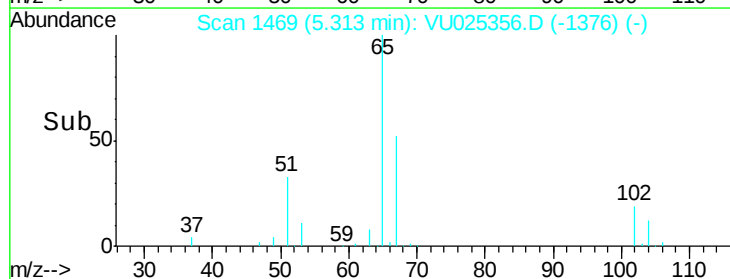
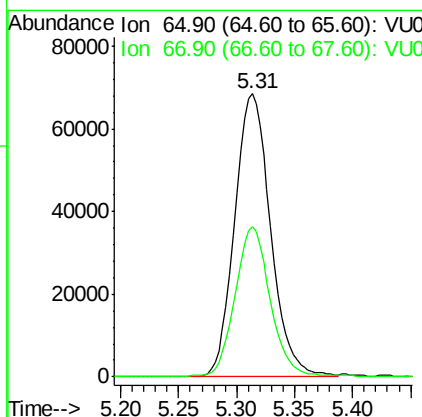
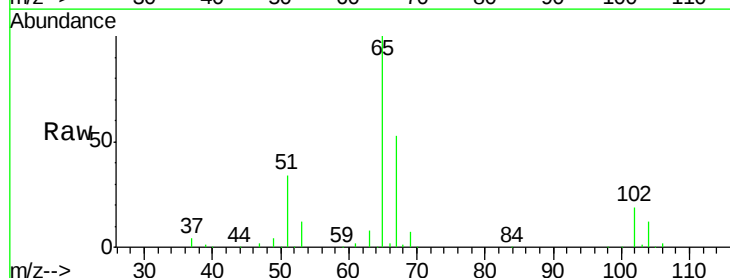
Manual Integrations
APPROVED

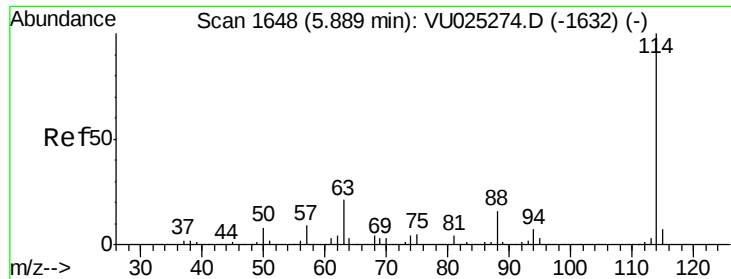
MMDadoda
7/13/2018 11:44:18 AM



#33
1,2-Dichloroethane-d4
Concen: 49.861 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VU025356.D
Acq: 12 Jul 2018 21:59

Tgt Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	103.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1648

Delta R.T. 0.00 min

Lab File: VU025356.D

Acq: 12 Jul 2018 21:59

Instrument :

MSVOA_U

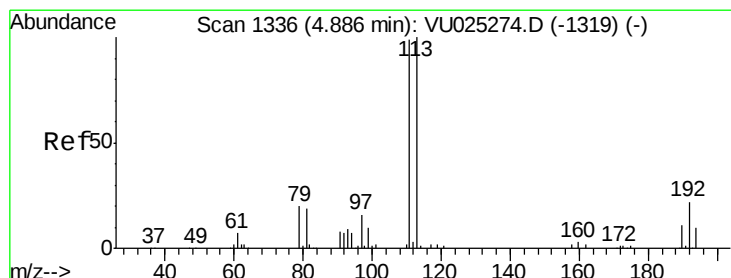
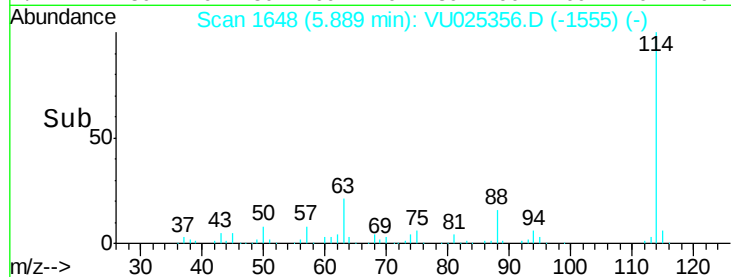
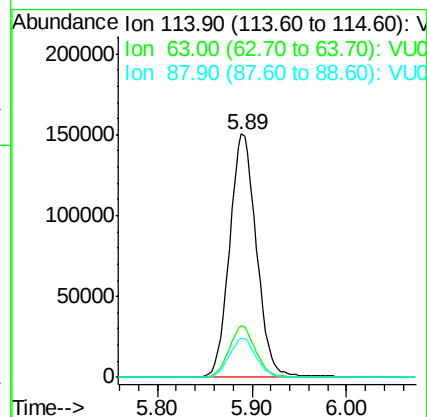
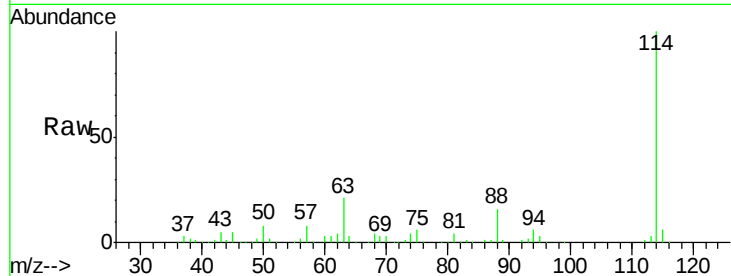
ClientSampleId :

SS037MW266-180709

Tot Ion:	114	Resp:	297546
Ion Ratio		Lower	Upper
114	100		
63	21.1	0.0	41.6
88	16.0	0.0	32.4

Manual Integrations
APPROVED

MMDadoda
7/13/2018 11:44:18 AM



#35

Dibromofluoromethane

Concen: 45.744 ug/l

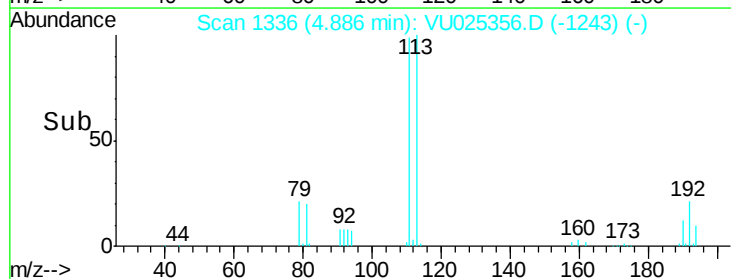
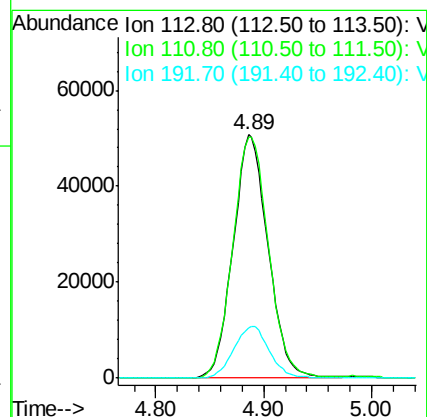
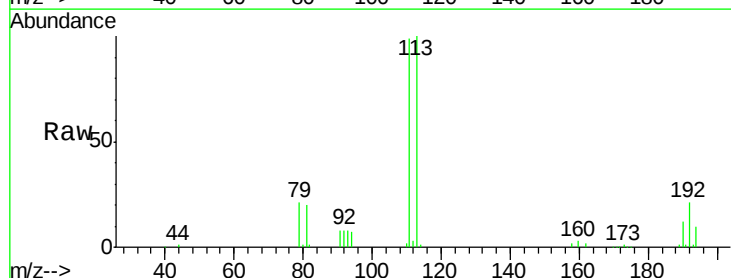
RT: 4.89 min Scan# 1336

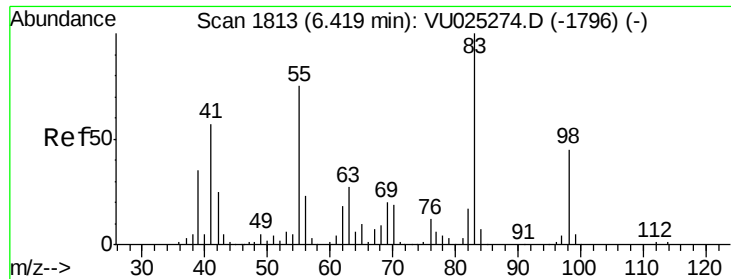
Delta R.T. 0.00 min

Lab File: VU025356.D

Acq: 12 Jul 2018 21:59

Tgt Ion:	113	Resp:	114820
Ion Ratio		Lower	Upper
113	100		
111	101.4	81.7	122.5
192	21.5	17.1	25.7





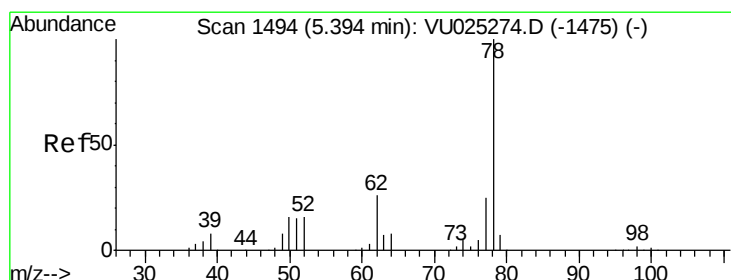
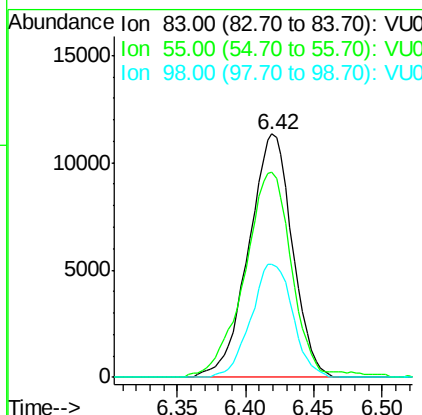
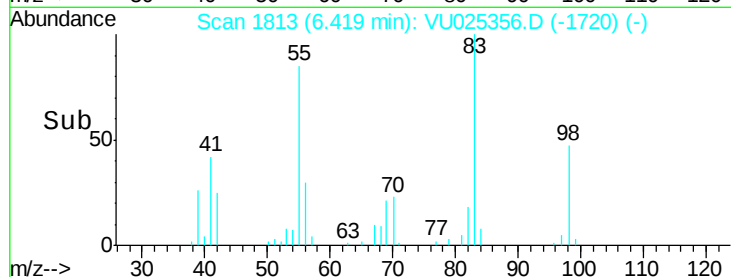
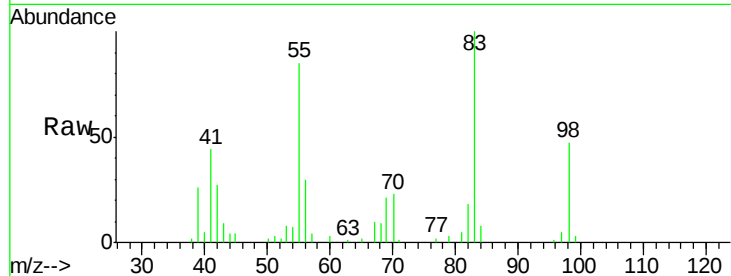
#39
Methvlcvclohexane
Concen: 6.100 ug/l
RT: 6.42 min Scan# 1813
Delta R.T. 0.00 min
Lab File: VU025356.D
Acq: 12 Jul 2018 21:59

Instrument :
MSVOA_U
ClientSampleId :
SS037MW266-180709

Tot Ion	83.00	Resp:	25170
Ion	Ratio	Lower	Upper
83	100		
55	83.4	60.0	90.0
98	46.7	36.1	54.1

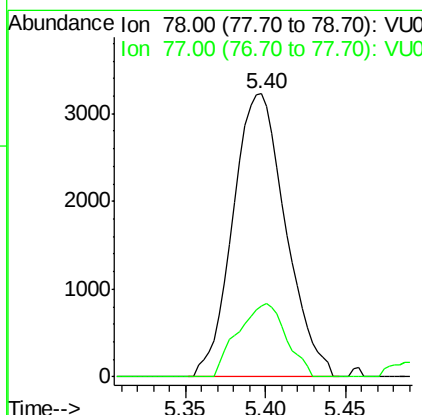
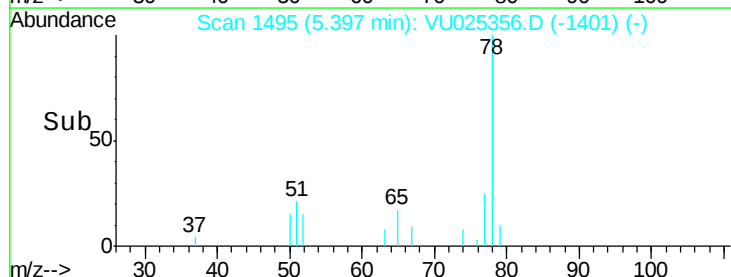
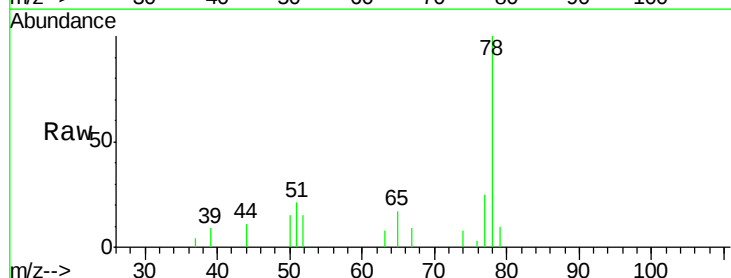
Manual Integrations
APPROVED

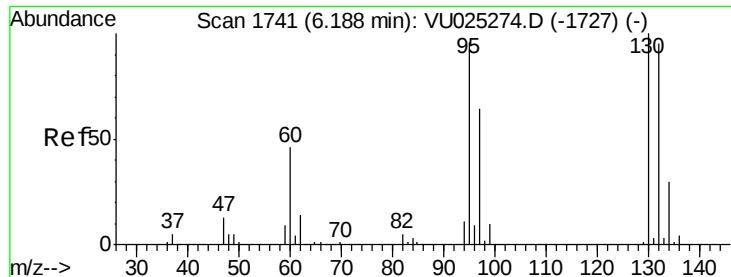
MMDadoda
7/13/2018 11:44:18 AM



#40
Benzene
Concen: 0.764 ug/l
RT: 5.40 min Scan# 1495
Delta R.T. 0.00 min
Lab File: VU025356.D
Acq: 12 Jul 2018 21:59

Tgt Ion	78	Resp:	7280
Ion	Ratio	Lower	Upper
78	100		
77	25.1	19.8	29.6





#44

Trichloroethene

Concen: 12.182 ug/l

RT: 6.19 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VU025356.D

Acq: 12 Jul 2018 21:59

Instrument :

MSVOA_U

ClientSampleId :

SS037MW266-180709

Tot Ion:130 Resp: 33345

Ion Ratio Lower Upper

130 100

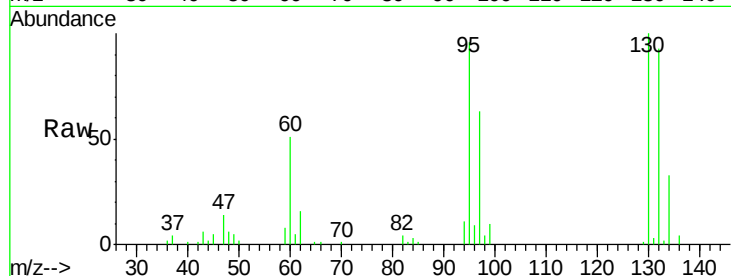
95 96.1 0.0 192.2

Manual Integrations

APPROVED

MMDadoda

7/13/2018 11:44:18 AM



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0

6.19

20000

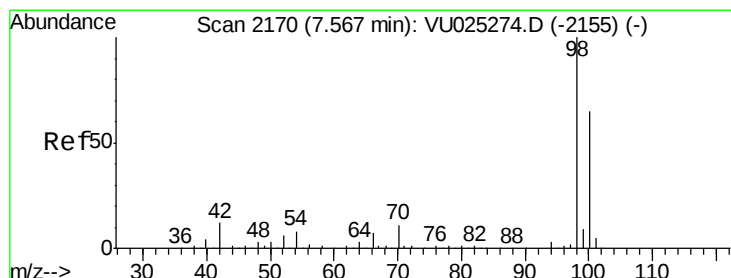
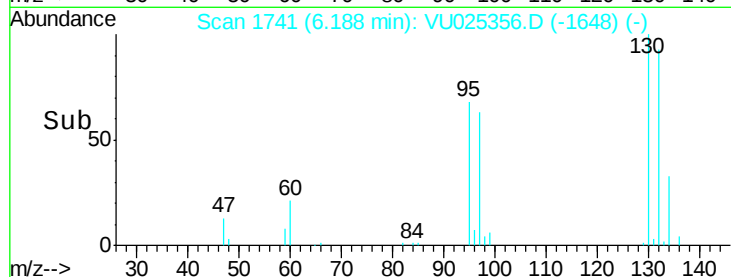
15000

10000

5000

0

Time-->



#50

Toluene-d8

Concen: 48.757 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VU025356.D

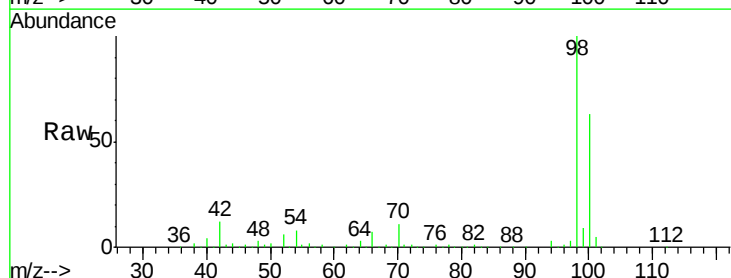
Acq: 12 Jul 2018 21:59

Tgt Ion: 98 Resp: 419084

Ion Ratio Lower Upper

98 100

100 63.8 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0

7.57

250000

200000

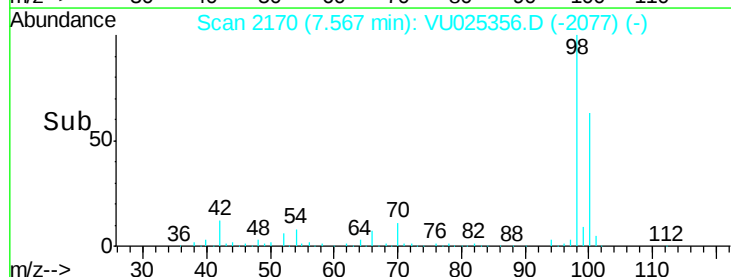
150000

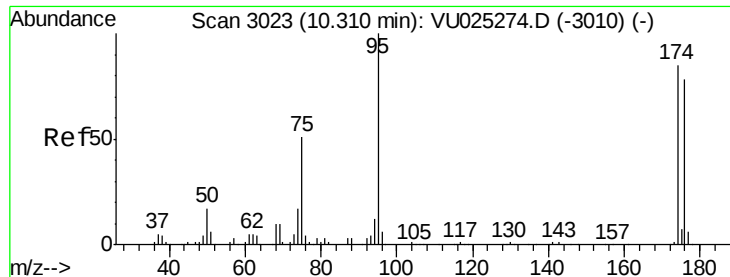
100000

50000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 44.833 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025356.D

Acq: 12 Jul 2018 21:59

Instrument :

MSVOA_U

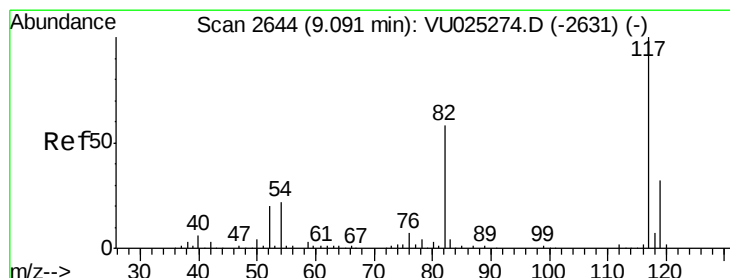
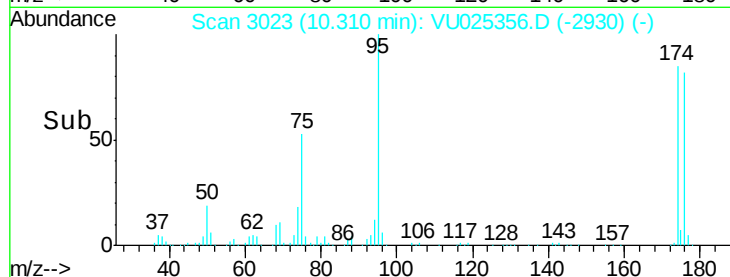
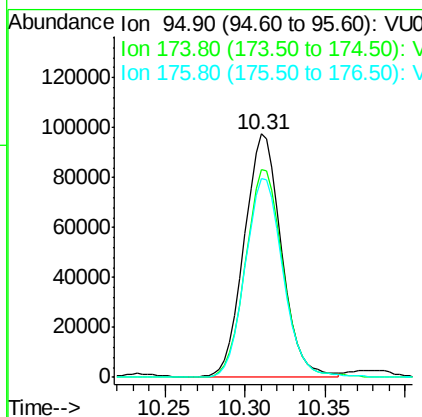
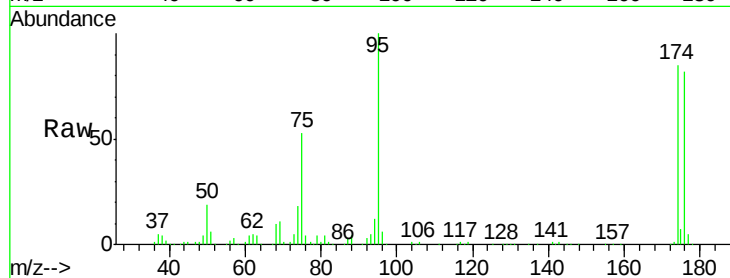
ClientSampleId :

SS037MW266-180709

Tot Ion:	95	Resp:	155144
Ion Ratio	Lower	Upper	
95	100		
174	86.4	0.0	172.2
176	83.5	0.0	162.6

Manual Integrations
APPROVED

MMDadoda
7/13/2018 11:44:18 AM



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

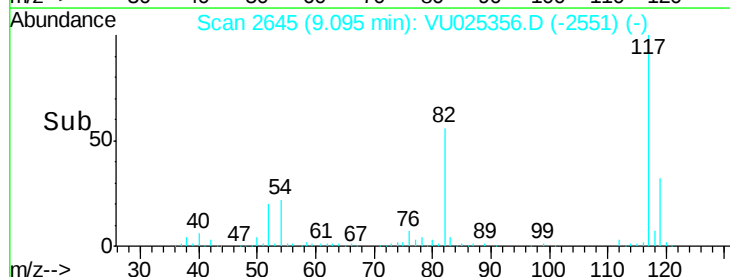
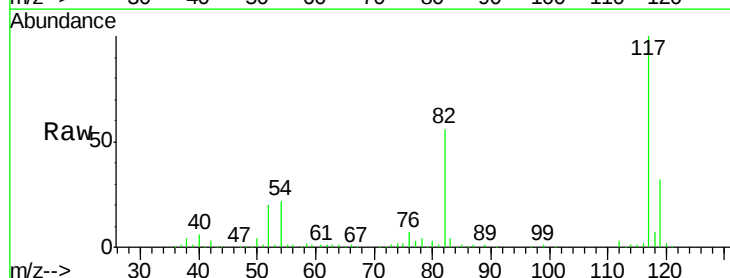
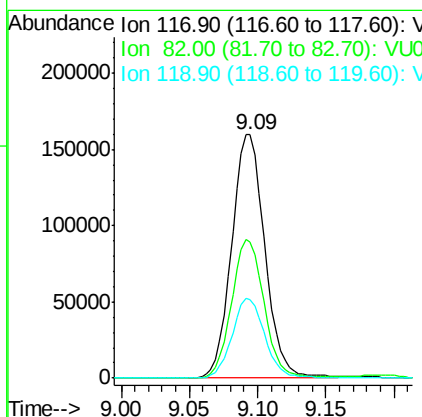
RT: 9.09 min Scan# 2645

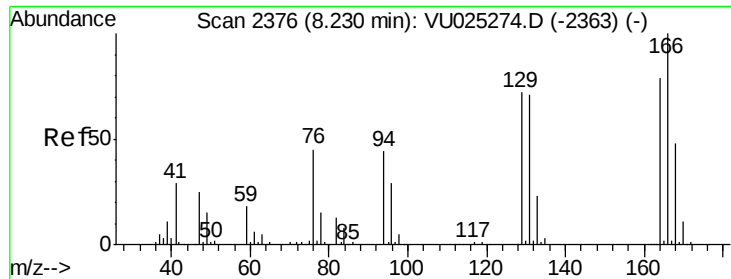
Delta R.T. 0.00 min

Lab File: VU025356.D

Acq: 12 Jul 2018 21:59

Tgt Ion:	117	Resp:	270385
Ion Ratio	Lower	Upper	
117	100		
82	56.0	46.0	69.0
119	32.5	26.0	39.0





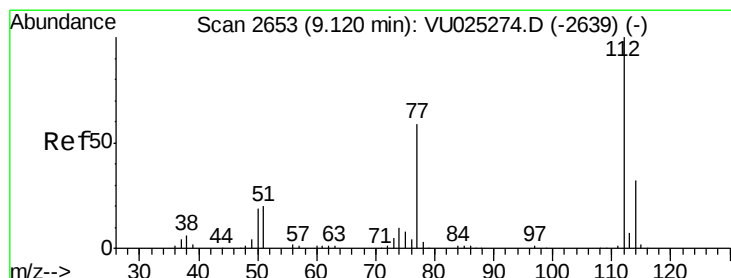
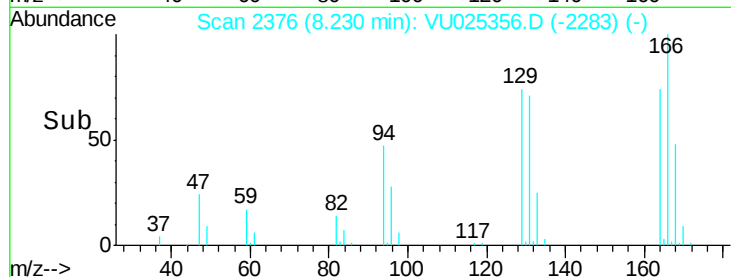
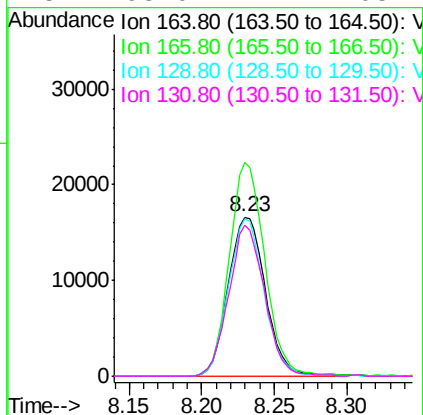
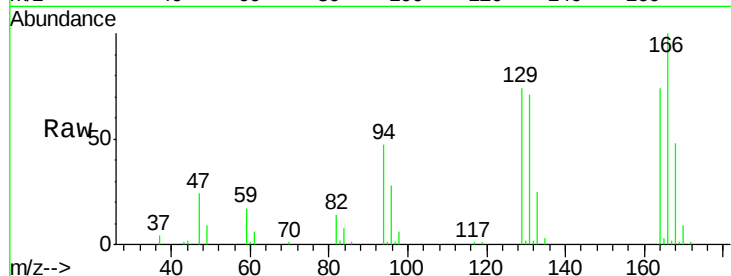
#64
Tetrachloroethene
Concen: 12.005 ug/l
RT: 8.23 min Scan# 2376
Delta R.T. 0.00 min
Lab File: VU025356.D
Acq: 12 Jul 2018 21:59

Instrument :
MSVOA_U
ClientSampleId :
SS037MW266-180709

Tot Ion	Ratio	Lower	Upper
164	100		
166	134.5	101.1	151.7
129	99.1	73.0	109.6
131	95.0	72.1	108.1

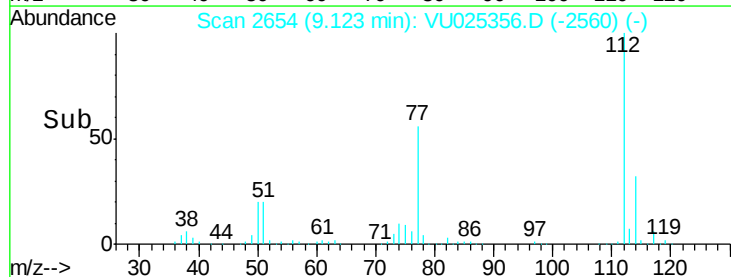
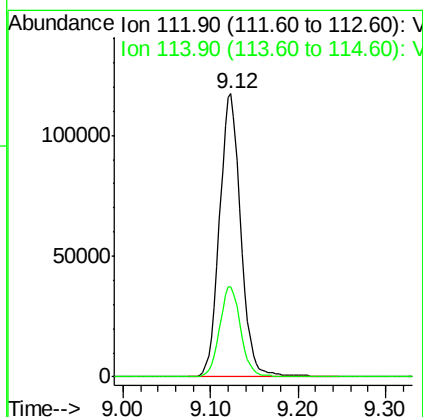
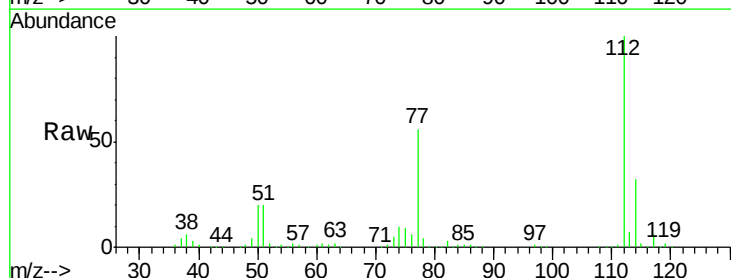
Manual Integrations
APPROVED

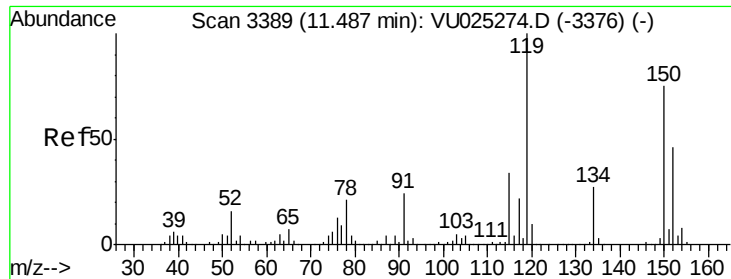
MMDadoda
7/13/2018 11:44:18 AM



#65
Chlorobenzene
Concen: 29.323 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. 0.00 min
Lab File: VU025356.D
Acq: 12 Jul 2018 21:59

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.8	38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025356.D

Acq: 12 Jul 2018 21:59

Instrument :

MSVOA_U

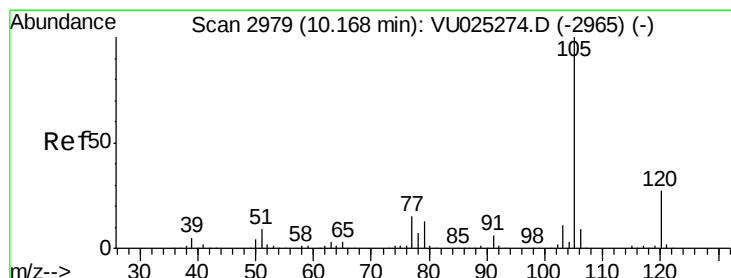
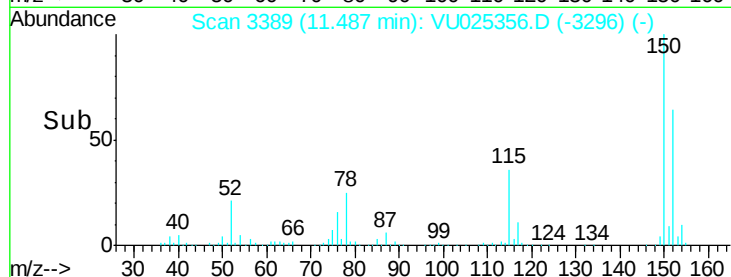
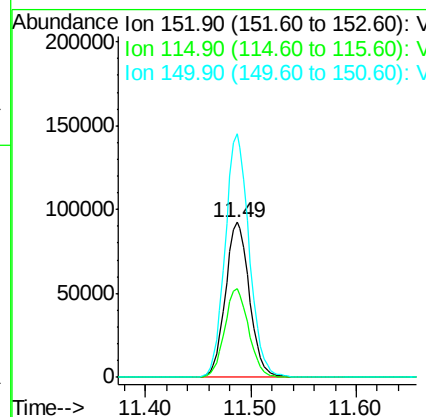
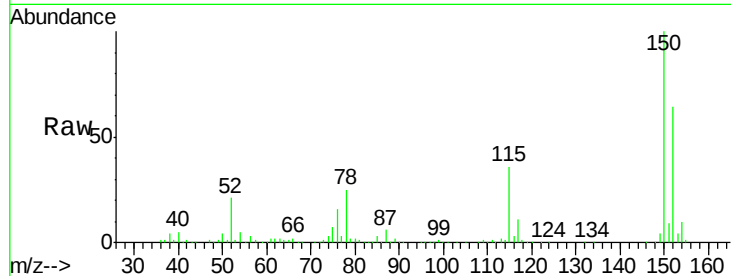
ClientSampleId :

SS037MW266-180709

Tot Ion:	152	Resp:	145541
Ion Ratio	Lower	Upper	
152	100		
115	57.2	40.1	120.3
150	157.0	0.0	351.4

Manual Integrations
APPROVED

MMDadoda
7/13/2018 11:44:18 AM



#73

Isopropylbenzene

Concen: 3.260 ug/l

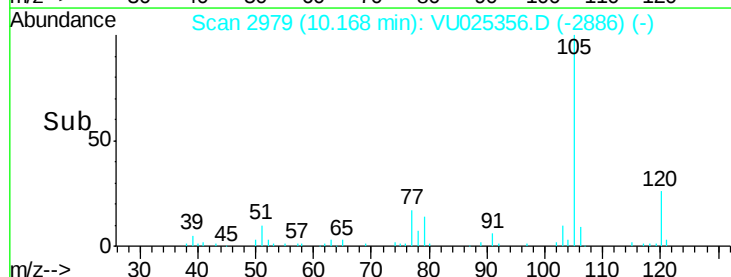
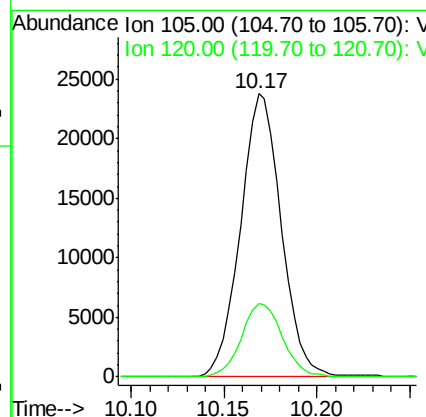
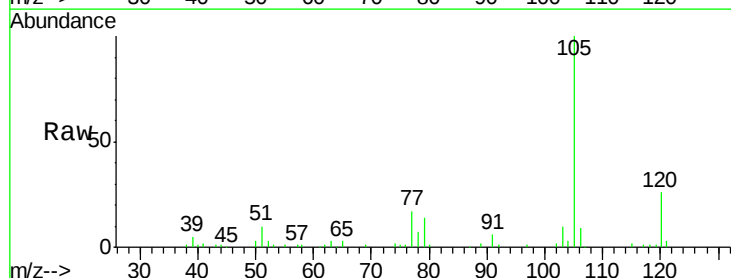
RT: 10.17 min Scan# 2979

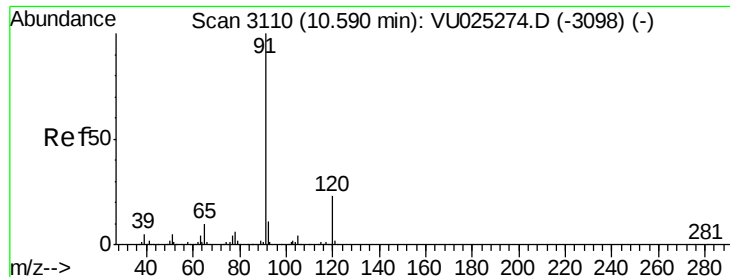
Delta R.T. 0.00 min

Lab File: VU025356.D

Acq: 12 Jul 2018 21:59

Tgt Ion:	105	Resp:	36255
Ion Ratio	Lower	Upper	
105	100		
120	26.2	13.5	40.5





#78

n-propylbenzene

Concen: 4.435 ug/l

RT: 10.59 min Scan# 3111

Delta R.T. 0.00 min

Lab File: VU025356.D

Acq: 12 Jul 2018 21:59

Instrument :

MSVOA_U

ClientSampleId :

SS037MW266-180709

Tot Ion: 91 Resp: 54724

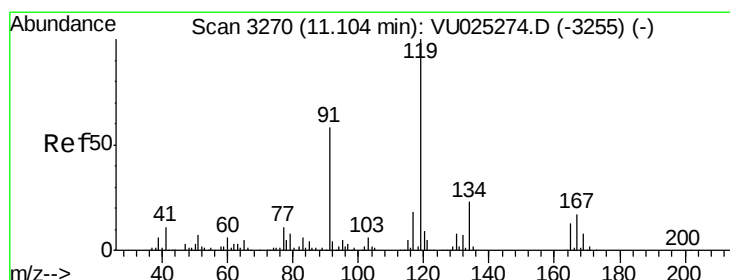
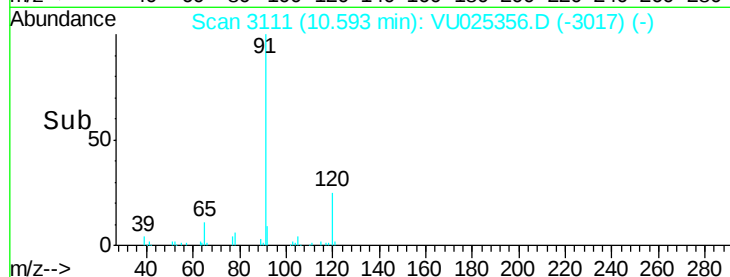
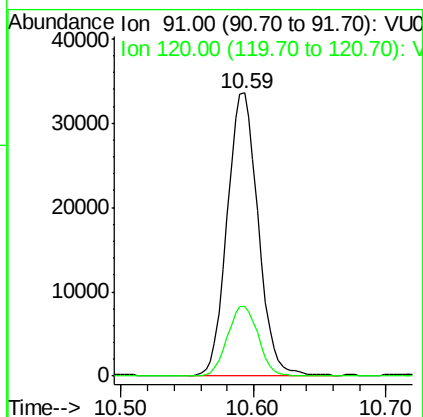
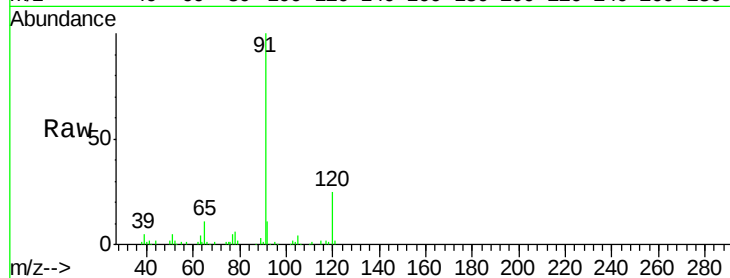
Ion Ratio Lower Upper

91 100

120 24.4 11.8 35.3

Manual Integrations
APPROVED

MMDadoda
7/13/2018 11:44:18 AM



#83

tert-Butylbenzene

Concen: 1.258 ug/l

RT: 11.10 min Scan# 3270

Delta R.T. 0.00 min

Lab File: VU025356.D

Acq: 12 Jul 2018 21:59

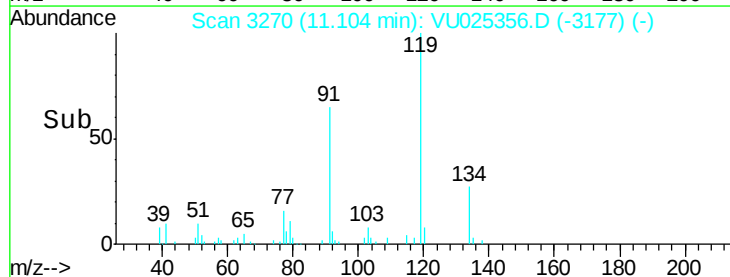
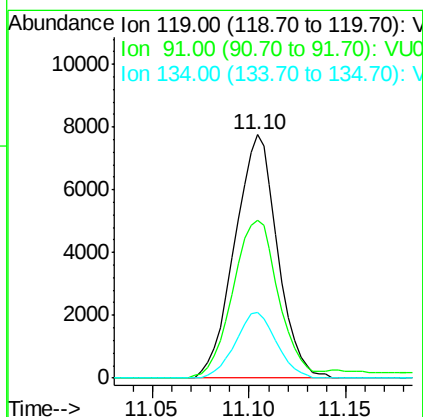
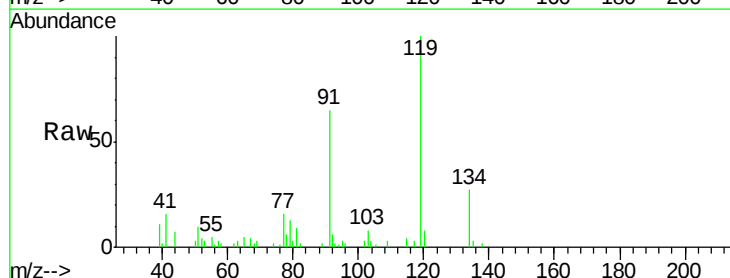
Tgt Ion: 119 Resp: 11894

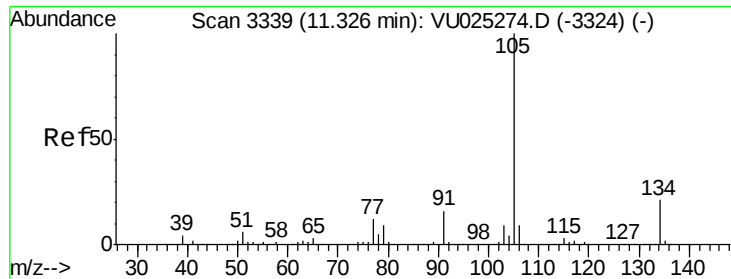
Ion Ratio Lower Upper

119 100

91 69.7 29.7 89.1

134 25.9 11.5 34.5





#85

sec-Butylbenzene

Concen: 2.276 ug/l

RT: 11.33 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VU025356.D

Acq: 12 Jul 2018 21:59

Instrument :

MSVOA_U

ClientSampleId :

SS037MW266-180709

Tot Ion:105 Resp: 25339

Ion Ratio Lower Upper

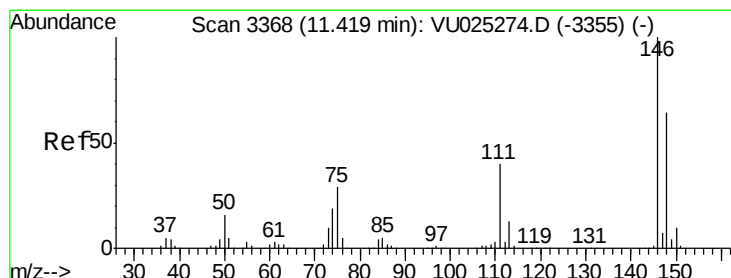
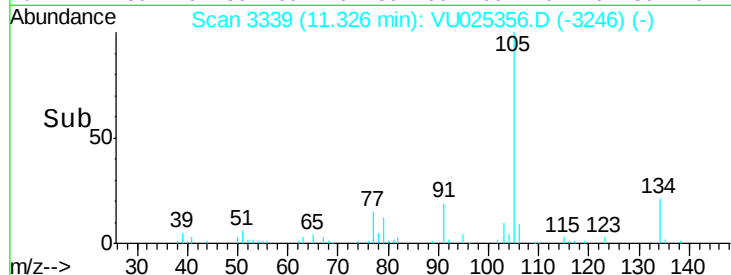
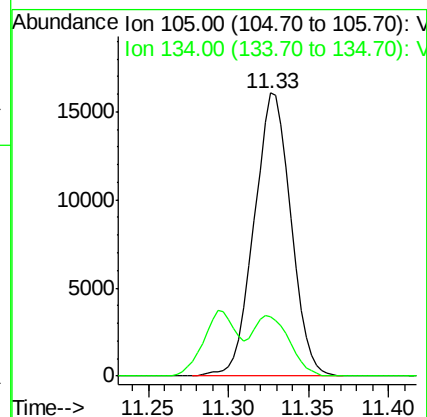
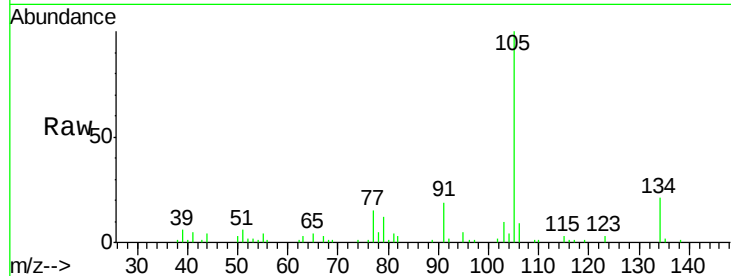
105 100

134 21.5 10.3 30.8

Manual Integrations
APPROVED

MMDadoda

7/13/2018 11:44:18 AM



#87

1,3-Dichlorobenzene

Concen: 0.328 ug/l m

RT: 11.42 min Scan# 3369

Delta R.T. 0.00 min

Lab File: VU025356.D

Acq: 12 Jul 2018 21:59

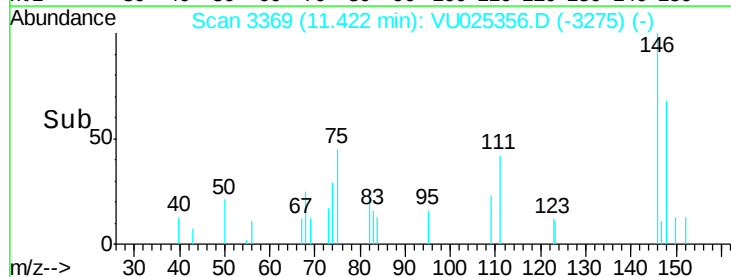
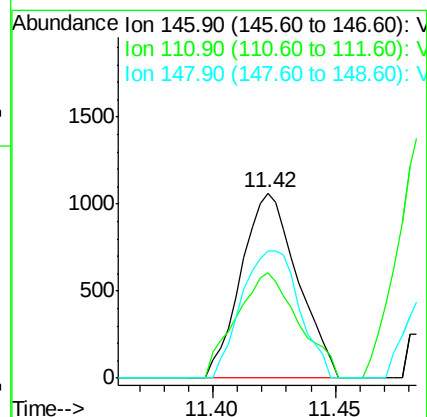
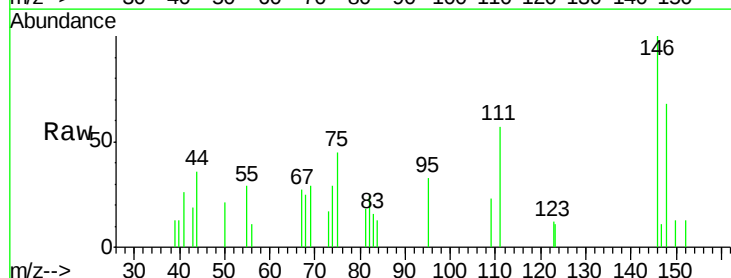
Tgt Ion:146 Resp: 1705

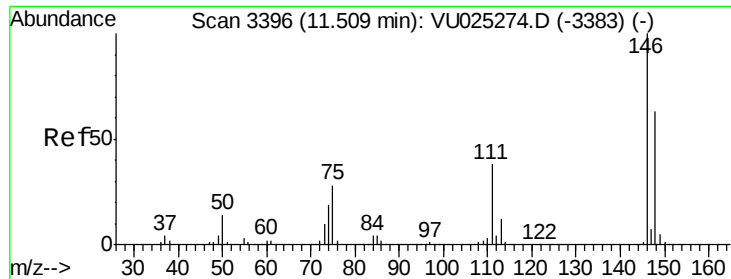
Ion Ratio Lower Upper

146 100

111 347.0 19.7 59.1#

148 425.1 32.1 96.3#





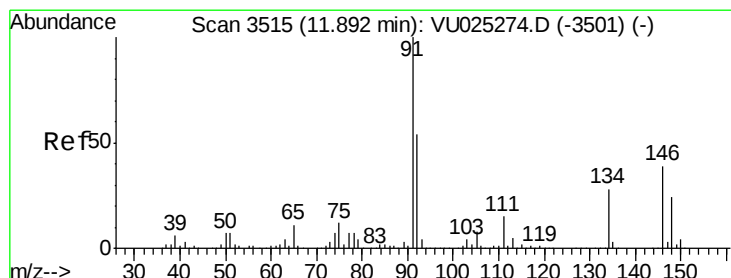
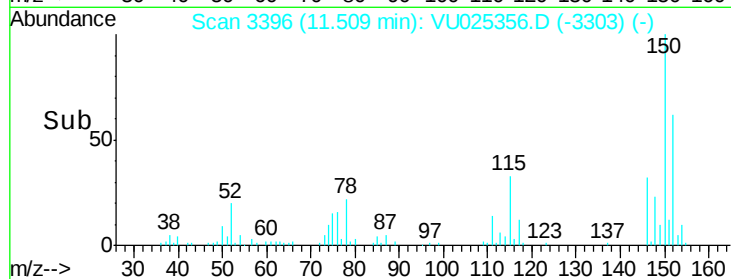
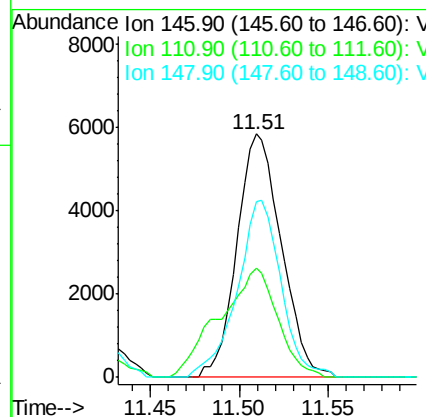
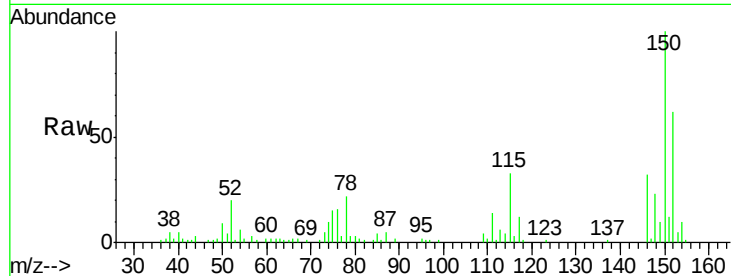
#88
 1,4-Dichlorobenzene
 Concen: 3.416 ug/l
 RT: 11.51 min Scan# 3396
 Delta R.T. 0.00 min
 Lab File: VU025356.D
 Acq: 12 Jul 2018 21:59

Instrument :
 MSVOA_U
 ClientSampleId :
 SS037MW266-180709

Tot Ion	Ratio	Lower	Upper
146	100		
111	58.6	19.4	58.1#
148	71.8	31.7	95.1

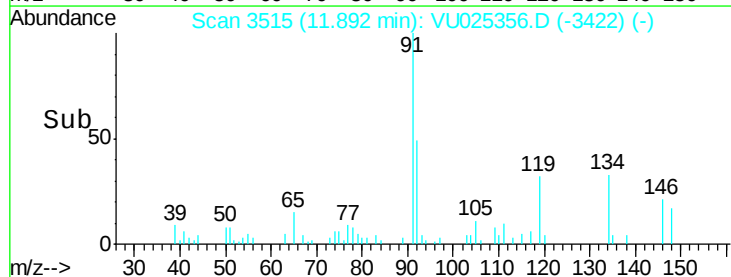
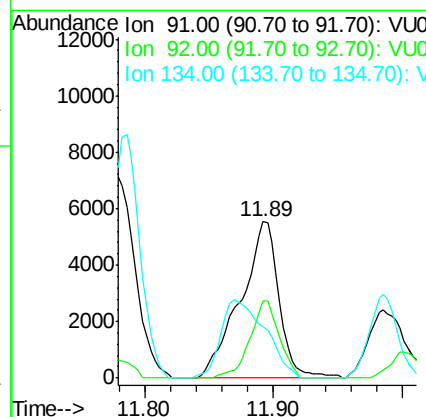
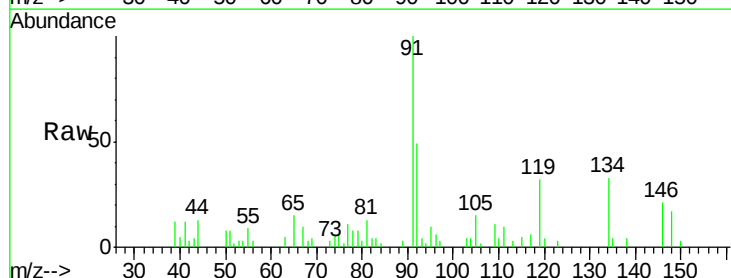
Manual Integrations
 APPROVED

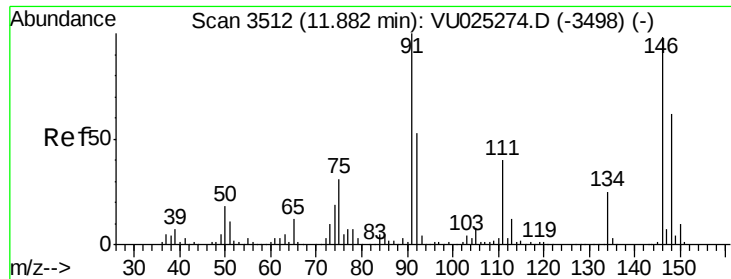
MMDadoda
 7/13/2018 11:44:18 AM



#89
 n-Butylbenzene
 Concen: 1.426 ug/l
 RT: 11.89 min Scan# 3515
 Delta R.T. 0.00 min
 Lab File: VU025356.D
 Acq: 12 Jul 2018 21:59

Tgt Ion	Ratio	Lower	Upper
91	100		
92	37.5	26.5	79.5
134	0.0	13.6	40.7#





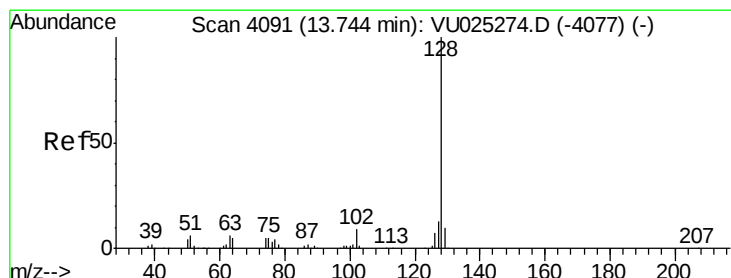
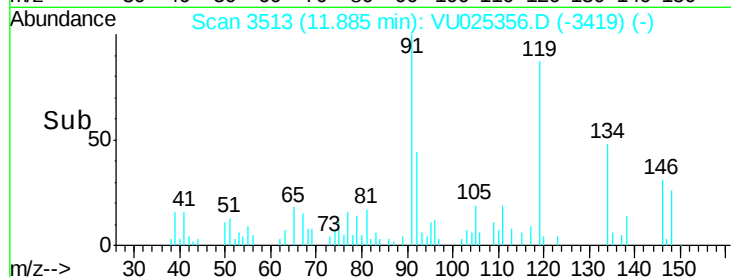
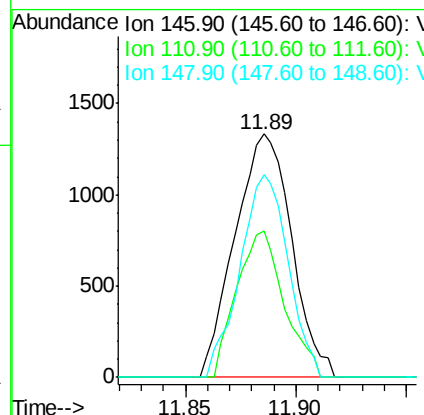
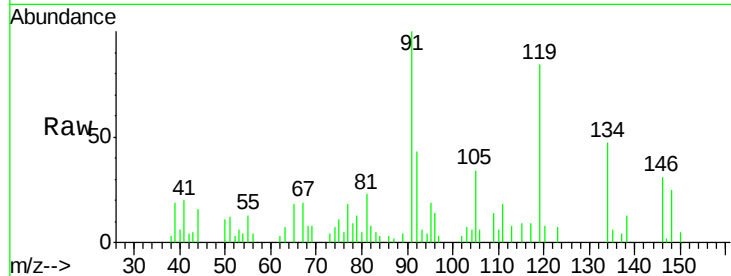
#91
 1,2-Dichlorobenzene
 Concen: 0.453 ug/l
 RT: 11.89 min Scan# 3513
 Delta R.T. 0.00 min
 Lab File: VU025356.D
 Acq: 12 Jul 2018 21:59

Instrument :
 MSVOA_U
 ClientSampleId :
 SS037MW266-180709

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.5	20.6	61.8
148	70.6	31.5	94.5

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 11:44:18 AM



#95
 Naphthalene
 Concen: 2.659 ug/l
 RT: 13.75 min Scan# 4094
 Delta R.T. 0.01 min
 Lab File: VU025356.D
 Acq: 12 Jul 2018 21:59

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	28.4	8.3	12.5#

