

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092318\
 Data File : VU027062.D
 Acq On : 23 Sep 2018 09:58
 Operator : MD/SY
 Sample : J4963-03MSD
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 104 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ12311-20180914MSD

Manual Integrations
 APPROVED

MMDadoda
 9/24/2018 4:40:34 PM

Quant Time: Sep 24 07:08:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 22 01:31:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	78177	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	137380	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	134789	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	72683	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	82362	52.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.70%	
35) Dibromofluoromethane	4.88	113	58121	48.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.62%	
50) Toluene-d8	7.57	98	225930	49.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.56%	
62) 4-Bromofluorobenzene	10.31	95	80955	51.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.98%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	49066	48.071 ug/l	98
3) Chloromethane	1.33	50	84707	48.134 ug/l	99
4) Vinyl Chloride	1.40	62	81953	49.889 ug/l	100
5) Bromomethane	1.62	94	41333	44.185 ug/l	97
6) Chloroethane	1.69	64	52458	49.980 ug/l	99
7) Trichlorofluoromethane	1.89	101	92160	49.397 ug/l	99
8) Diethyl Ether	2.10	74	47247	52.612 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.29	101	55032	47.972 ug/l	99
10) Methyl Iodide	2.41	142	54477	38.290 ug/l	99
11) Tert butyl alcohol	2.82	59	97141	269.354 ug/l	99
12) 1,1-Dichloroethene	2.29	96	54473	50.450 ug/l	96
13) Acrolein	2.20	56	45842	235.799 ug/l	99
14) Allyl chloride	2.59	41	116544	53.217 ug/l	96
15) Acrylonitrile	2.94	53	246001	270.640 ug/l	98
16) Acetone	2.32	43	224457	269.873 ug/l	99
17) Carbon Disulfide	2.48	76	172450	49.027 ug/l	99
18) Methyl Acetate	2.61	43	105742	47.216 ug/l	99
19) Methyl tert-butyl Ether	3.00	73	219787	55.393 ug/l	98
20) Methylene Chloride	2.70	84	68848	48.858 ug/l	96
21) trans-1,2-Dichloroethene	2.98	96	61019	52.931 ug/l	99
22) Diisopropyl ether	3.57	45	270410	57.729 ug/l	98
23) Vinyl Acetate	3.53	43	949776	237.868 ug/l	99
24) 1,1-Dichloroethane	3.45	63	140040	54.282 ug/l	100
25) 2-Butanone	4.26	43	352754	266.773 ug/l	98
26) 2,2-Dichloropropane	4.23	77	73052	36.309 ug/l	98
27) cis-1,2-Dichloroethene	4.23	96	69821	53.630 ug/l	99
28) Bromochloromethane	4.55	49	75163	60.440 ug/l	95
29) Tetrahydrofuran	4.64	42	229643	287.088 ug/l	97
30) Chloroform	4.67	83	124504	51.991 ug/l	99
31) Cyclohexane	5.00	56	123168	52.550 ug/l	98
32) 1,1,1-Trichloroethane	4.92	97	102233	53.469 ug/l	99
36) 1,1-Dichloropropene	5.14	75	91833	50.086 ug/l	99
37) Ethyl Acetate	4.38	43	109103	43.956 ug/l	99
38) Carbon Tetrachloride	5.14	117	85816	49.184 ug/l	98

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 Quant Title : SW846 8260
 QLast Update : Sat Sep 22 01:31:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.42	83	100677	50.528	ug/l	98
40) Benzene	5.39	78	278386	49.946	ug/l	100
41) Methacrylonitrile	4.54	41	73917	57.342	ug/l	98
42) 1,2-Dichloroethane	5.41	62	108686	51.611	ug/l	99
43) Isopropyl Acetate	5.55	43	181247	50.071	ug/l	98
44) Trichloroethene	6.19	130	58294	49.127	ug/l	100
45) 1,2-Dichloropropane	6.43	63	84684	53.322	ug/l	97
46) Dibromomethane	6.56	93	48174	50.225	ug/l	98
47) Bromodichloromethane	6.76	83	98985	51.037	ug/l	99
48) Methyl methacrylate	6.62	41	100081	50.782	ug/l	98
49) 1,4-Dioxane	6.61	88	38825	992.269	ug/l	97
51) 4-Methyl-2-Pentanone	7.46	43	681368	279.877	ug/l	100
52) Toluene	7.64	92	169567	53.074	ug/l	99
53) t-1,3-Dichloropropene	7.88	75	108417	52.028	ug/l	100
54) cis-1,3-Dichloropropene	7.27	75	114187	49.837	ug/l	99
55) 1,1,2-Trichloroethane	8.07	97	69414	51.275	ug/l	100
56) Ethyl methacrylate	8.02	69	117072	49.848	ug/l	97
57) 1,3-Dichloropropane	8.24	76	132299	52.544	ug/l	100
59) 2-Hexanone	8.36	43	521126	273.457	ug/l	99
60) Dibromochloromethane	8.48	129	69122	52.054	ug/l	99
61) 1,2-Dibromoethane	8.59	107	71140	50.506	ug/l	99
64) Tetrachloroethene	8.23	164	48700	46.888	ug/l	99
65) Chlorobenzene	9.12	112	172628	48.302	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	62607	50.859	ug/l	98
67) Ethyl Benzene	9.25	91	315351	53.659	ug/l	100
68) m/p-Xylenes	9.38	106	233639	98.192	ug/l	99
69) o-Xylene	9.78	106	112720	54.133	ug/l	98
70) Styrene	9.79	104	188767	48.604	ug/l	99
71) Bromoform	9.96	173	50130	52.661	ug/l #	99
73) Isopropylbenzene	10.17	105	305955	55.337	ug/l	99
74) N-amyl acetate	10.01	43	150990	47.179	ug/l	98
75) 1,1,2,2-Tetrachloroethane	10.46	83	121804	47.916	ug/l	100
76) 1,2,3-Trichloropropane	10.49	75	103426m	46.840	ug/l	
77) Bromobenzene	10.45	156	69052	51.108	ug/l	95
78) n-propylbenzene	10.59	91	370806	56.681	ug/l	99
79) 2-Chlorotoluene	10.66	91	219174	53.337	ug/l	98
80) 1,3,5-Trimethylbenzene	10.77	105	256064	56.105	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.51	75	31199m	45.217	ug/l	
82) 4-Chlorotoluene	10.77	91	252542	54.810	ug/l	99
83) tert-Butylbenzene	11.10	119	242016	53.636	ug/l	99
84) 1,2,4-Trimethylbenzene	11.15	105	263893	56.816	ug/l	99
85) sec-Butylbenzene	11.32	105	305367	55.440	ug/l	99
86) p-Isopropyltoluene	11.48	119	257521	49.829	ug/l	100
87) 1,3-Dichlorobenzene	11.42	146	127880	50.863	ug/l	99
88) 1,4-Dichlorobenzene	11.51	146	130013	47.446	ug/l	99
89) n-Butylbenzene	11.89	91	236501	47.338	ug/l	99
90) Hexachloroethane	12.15	117	49305	49.225	ug/l	97
91) 1,2-Dichlorobenzene	11.88	146	128136	47.978	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	26790	51.660	ug/l	99
93) 1,2,4-Trichlorobenzene	13.50	180	81702	53.086	ug/l	98

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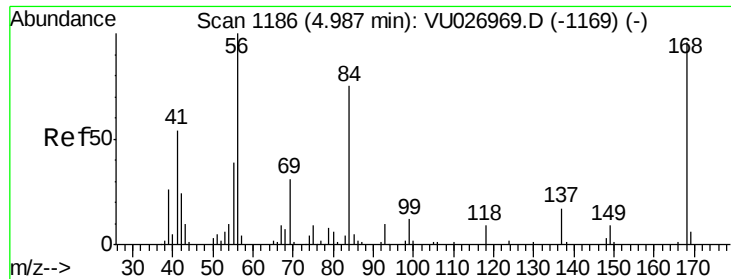
Manual Integrations
APPROVED

MMDadoda
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Quant Time: Sep 24 07:08:33 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 22 01:31:57 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	13.69	225	38339	47.080	ug/l	99
95) Naphthalene	13.74	128	302331	50.234	ug/l	100
96) 1,2,3-Trichlorobenzene	13.99	180	87610	53.082	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ123I1-20180914MSD

Tot Ion:168 Resp: 78177

Ion Ratio Lower Upper

168 100

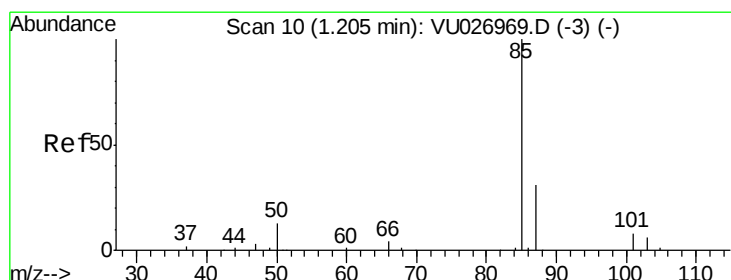
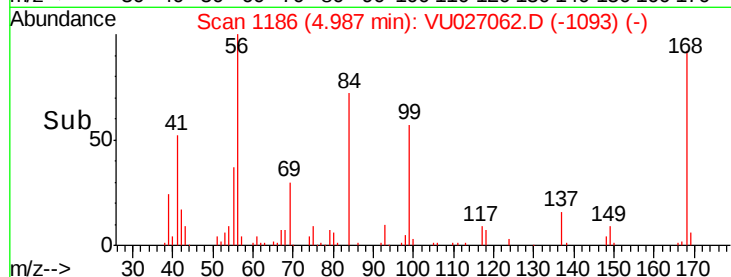
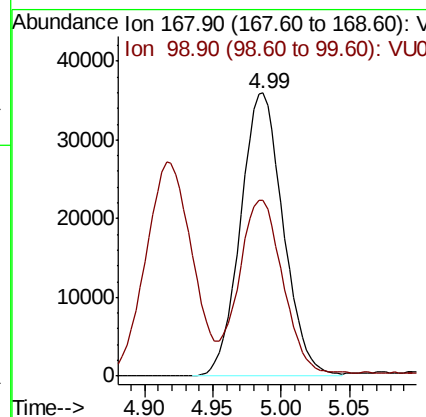
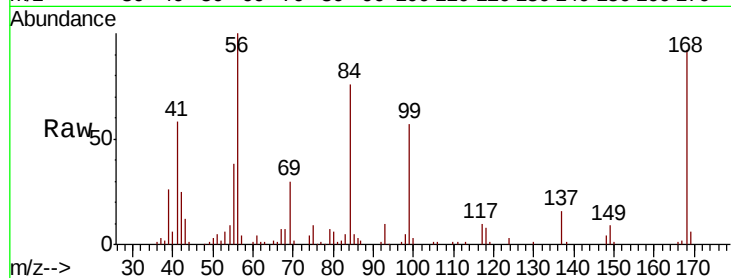
99 60.9 48.1 72.1

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 48.071 ug/l

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU027062.D

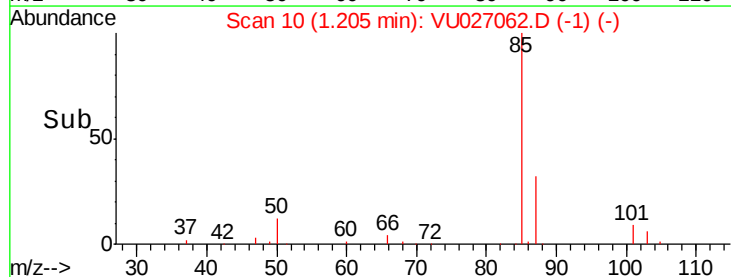
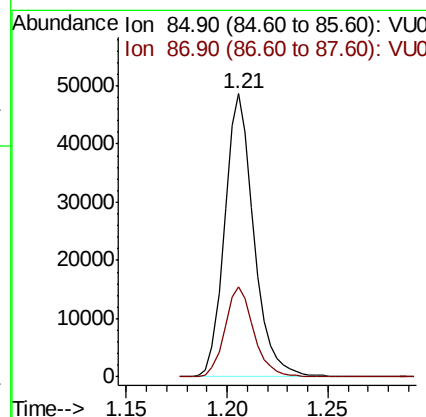
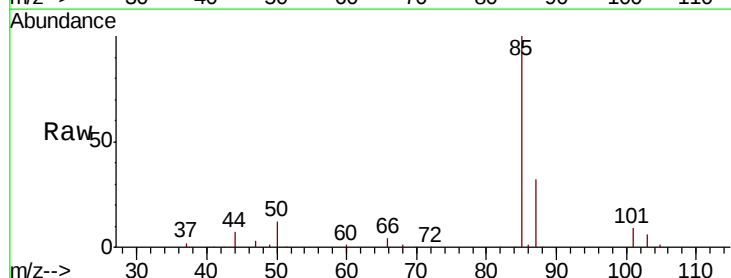
Acq: 23 Sep 2018 09:58

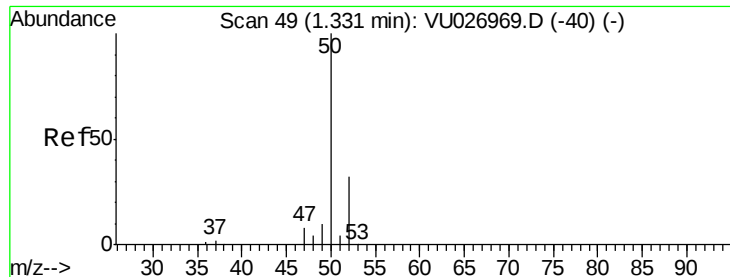
Tgt Ion: 85 Resp: 49066

Ion Ratio Lower Upper

85 100

87 31.9 15.6 46.7





#3

Chloromethane

Concen: 48.134 ug/l

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ123I1-20180914MSD

Tot Ion: 50 Resp: 84707

Ion Ratio Lower Upper

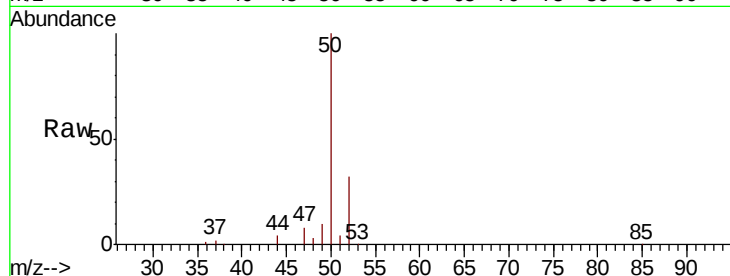
50 100

52 31.6 25.9 38.9

Manual Integrations
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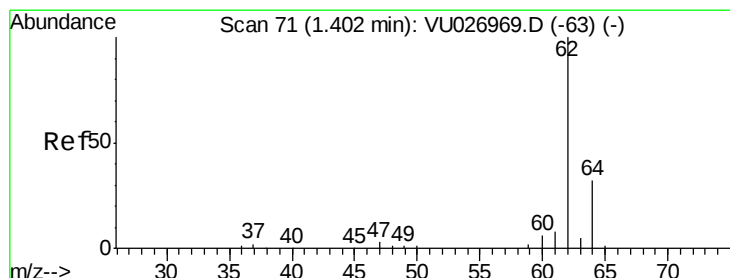
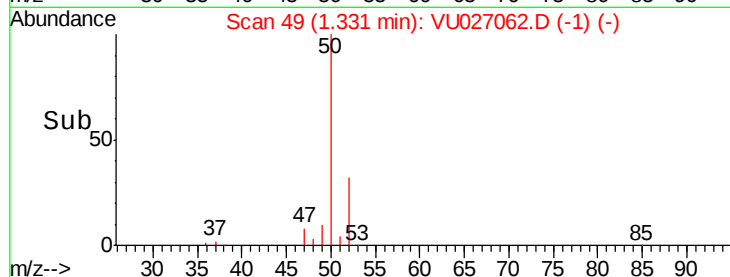
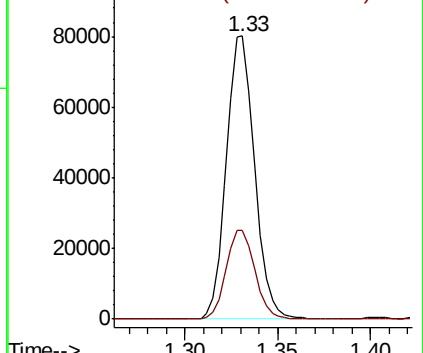
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9/24/2018 4:40:34 PM



Abundance Ion 49.90 (49.60 to 50.60): VU027062.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VU027062.D (-1) (-)



#4

Vinyl Chloride

Concen: 49.889 ug/l

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU027062.D

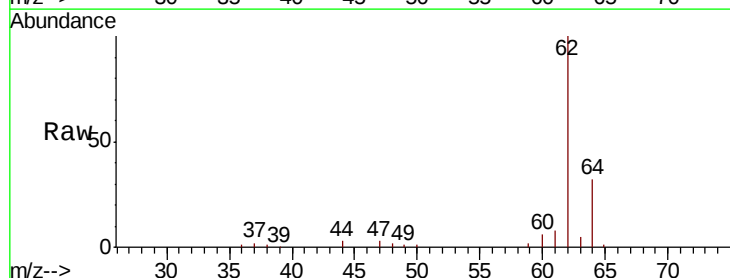
Acq: 23 Sep 2018 09:58

Tgt Ion: 62 Resp: 81953

Ion Ratio Lower Upper

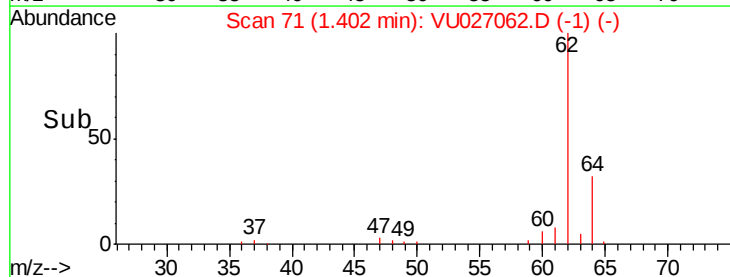
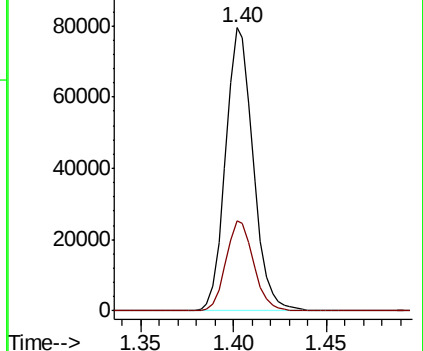
62 100

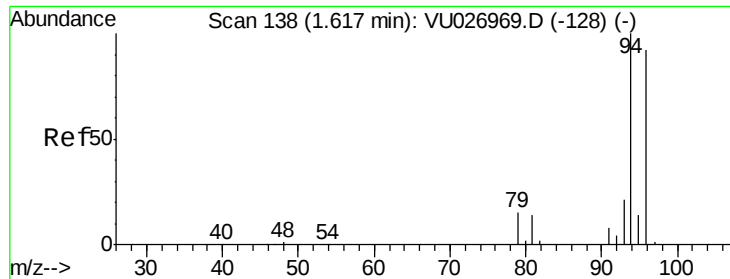
64 31.7 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VU027062.D (-1) (-)

Ion 63.90 (63.60 to 64.60): VU027062.D (-1) (-)





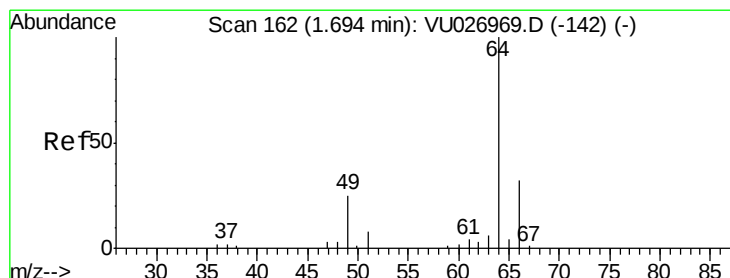
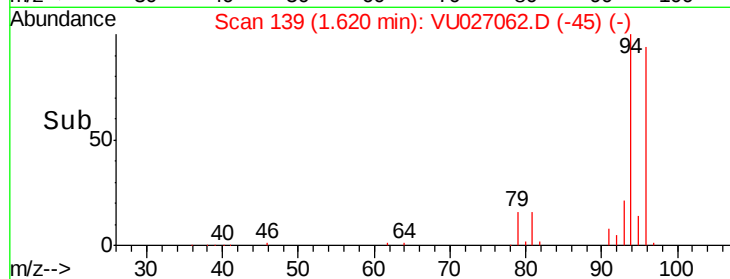
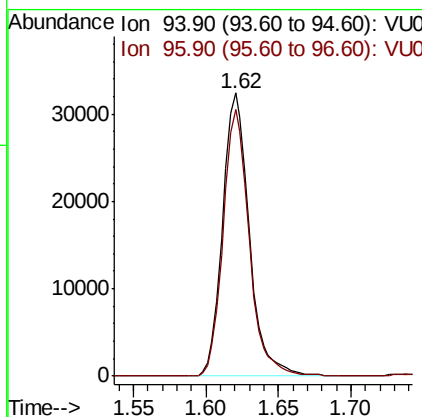
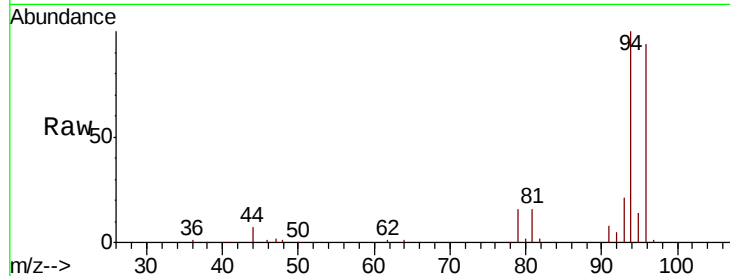
#5
Bromomethane
Concen: 44.185 ug/l
RT: 1.62 min Scan# 139
Delta R.T. 0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Instrument :
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ClientSampleId :
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Tot Ion: 94 Resp: 41333
Ion Ratio Lower Upper
94 100
96 94.1 73.2 109.8

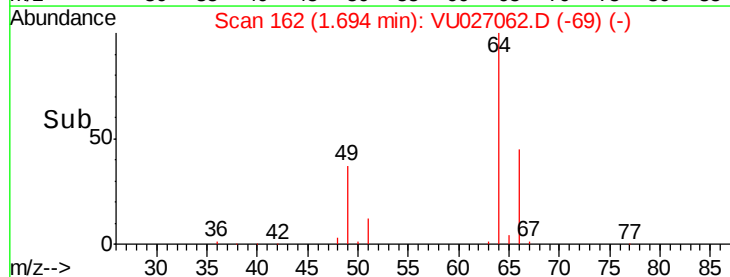
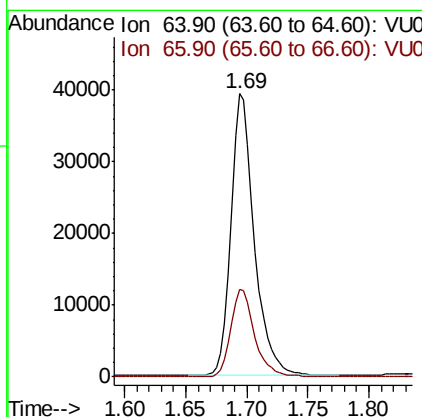
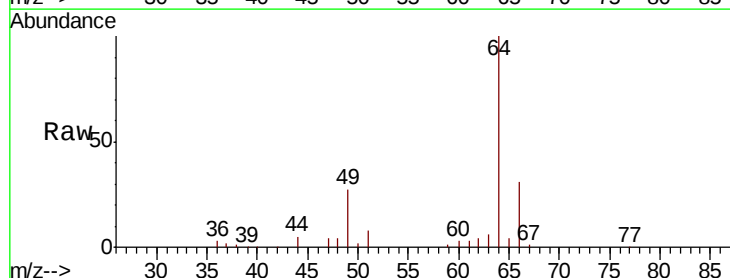
Manual Integrations
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#6
Chloroethane
Concen: 49.980 ug/l
RT: 1.69 min Scan# 162
Delta R.T. 0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Tgt Ion: 64 Resp: 52458
Ion Ratio Lower Upper
64 100
66 31.1 25.3 37.9





#7

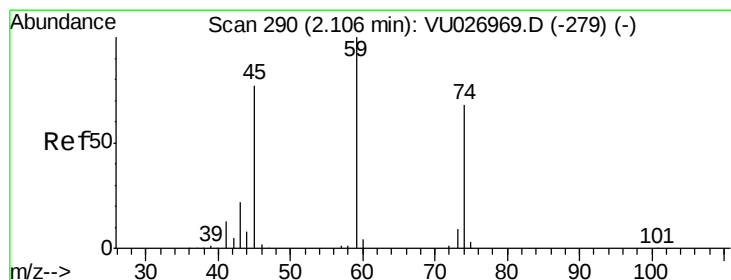
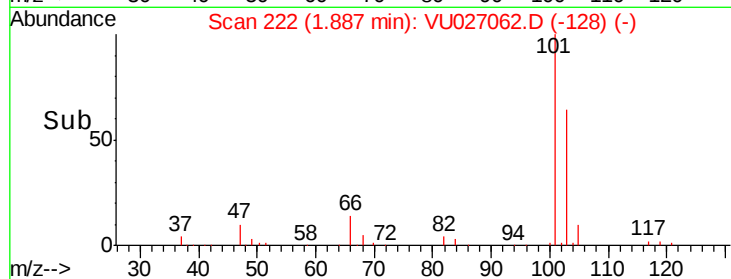
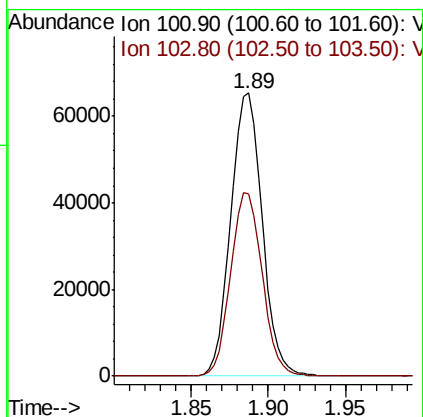
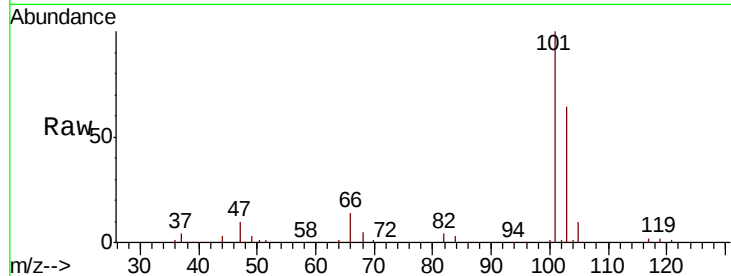
Trichlorofluoromethane
Concen: 49.397 ug/l
RT: 1.89 min Scan# 222
Delta R.T. 0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Instrument :
MSVOA_U
ClientSampleId :
SA-PZ123I1-20180914MSD

Tot Ion:101 Resp: 92160
Ion Ratio Lower Upper
101 100
103 64.5 52.2 78.2

Manual Integrations
APPROVED

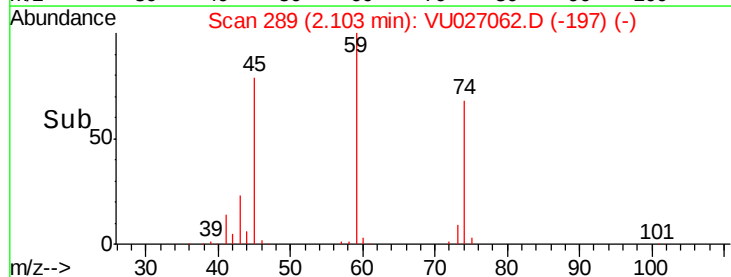
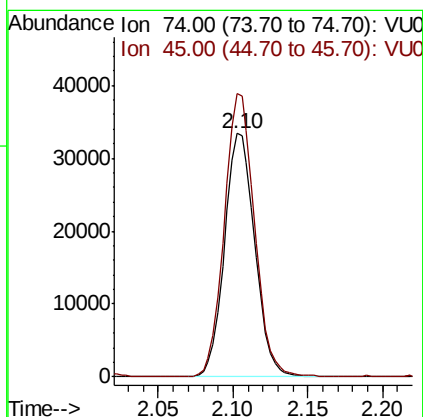
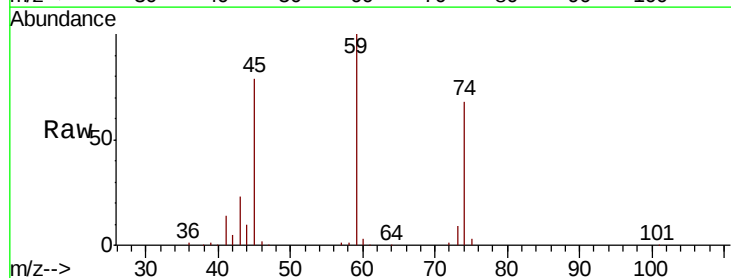
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9/24/2018 4:40:34 PM

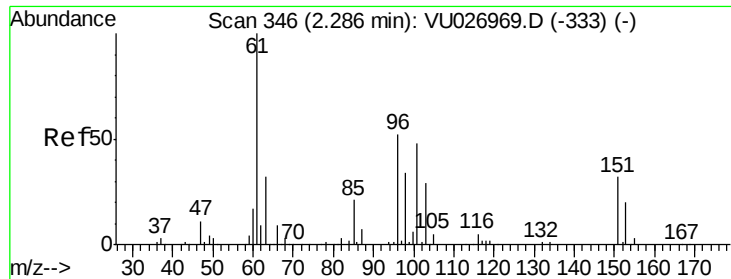


#8

Diethyl Ether
Concen: 52.612 ug/l
RT: 2.10 min Scan# 289
Delta R.T. -0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Tgt Ion: 74 Resp: 47247
Ion Ratio Lower Upper
74 100
45 116.0 56.9 170.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.972 ug/l

RT: 2.29 min Scan# 346

Delta R.T. 0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Instrument :

MSVOA_U

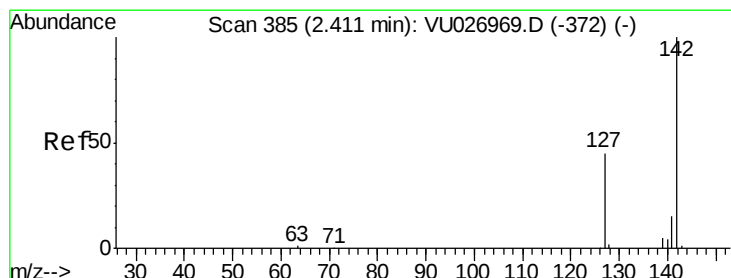
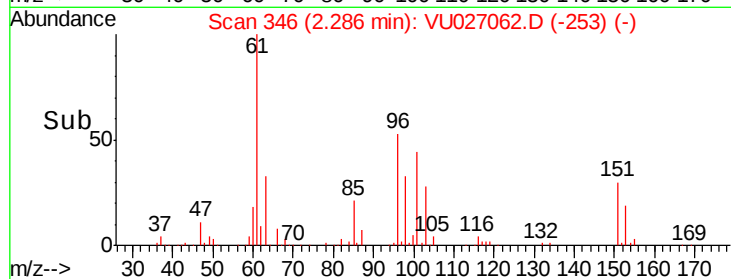
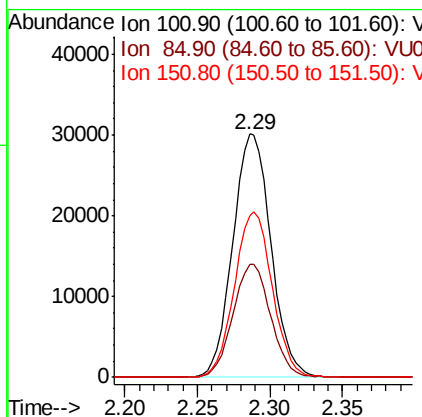
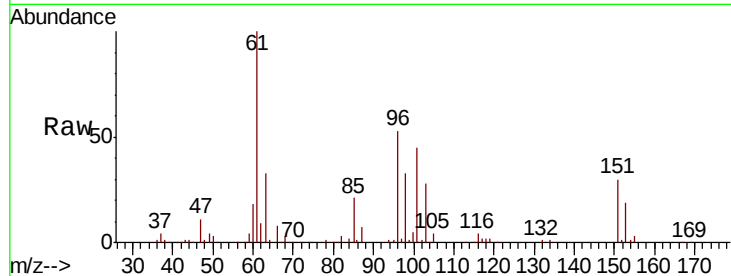
ClientSampleId :

SA-PZ123I1-20180914MSD

Tot Ion:	101	Resp:	55032
Ion Ratio	Lower	Upper	
101	100		
85	46.1	36.2	54.2
151	67.4	54.5	81.7

Manual Integrations
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MMDadoda
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#10

Methyl Iodide

Concen: 38.290 ug/l

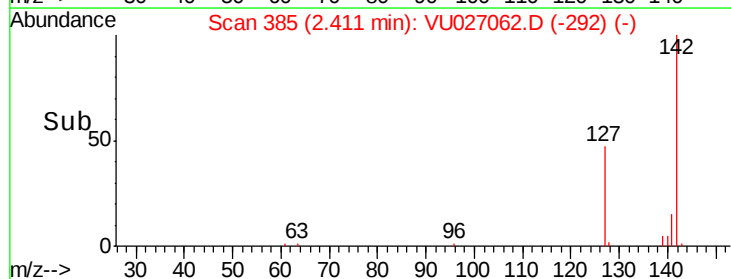
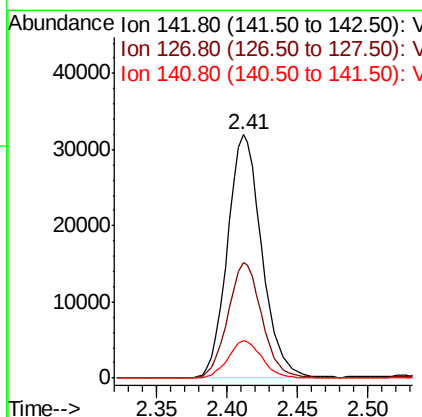
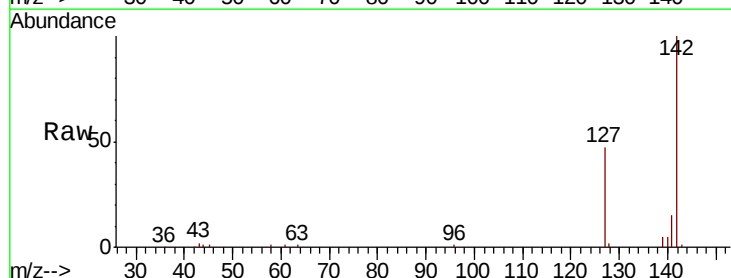
RT: 2.41 min Scan# 385

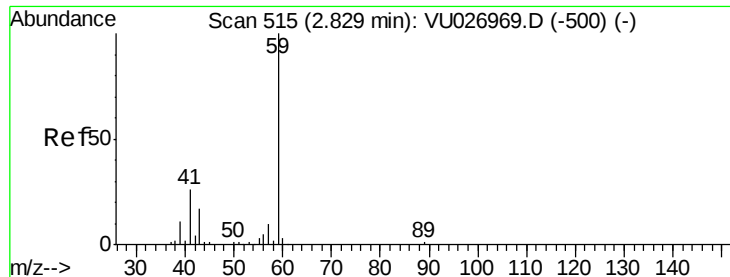
Delta R.T. 0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Tgt Ion:	142	Resp:	54477
Ion Ratio	Lower	Upper	
142	100		
127	46.9	36.7	55.1
141	14.9	11.8	17.6





#11

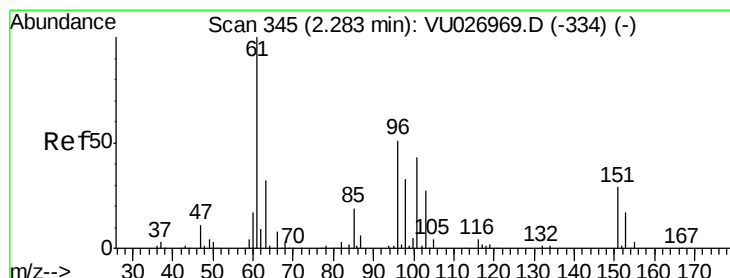
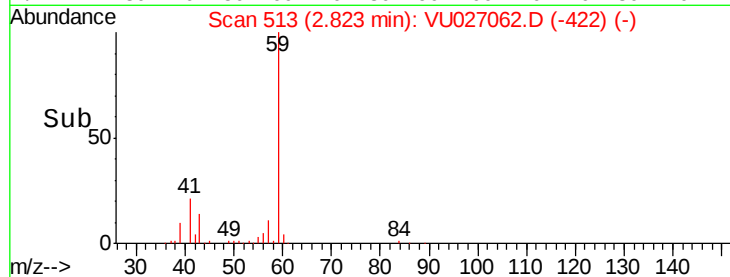
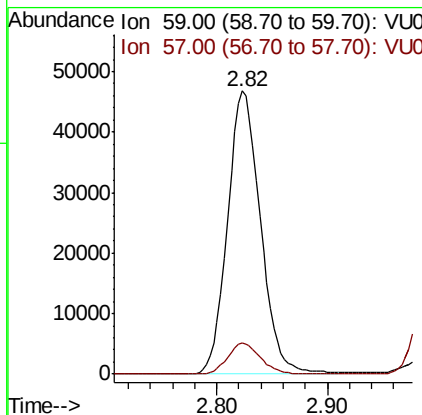
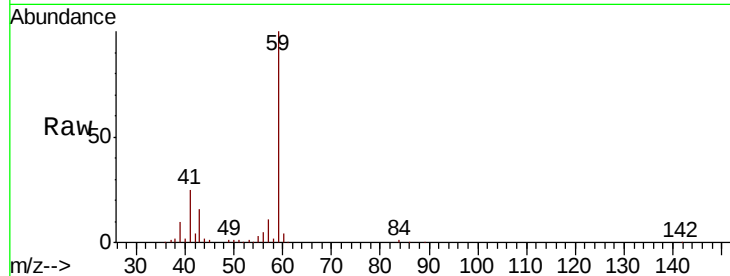
Tert butyl alcohol
 Concen: 269.354 ug/l
 RT: 2.82 min Scan# 513
 Delta R.T. -0.01 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ123I1-20180914MSD

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.5	12.7

Manual Integrations
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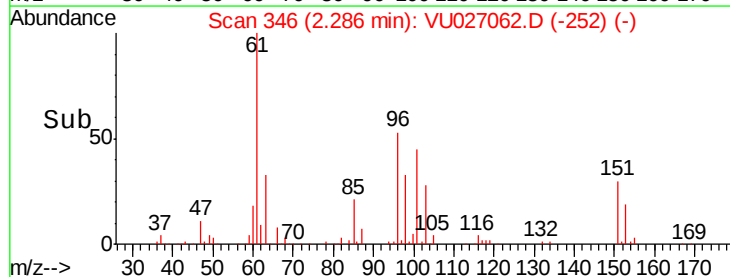
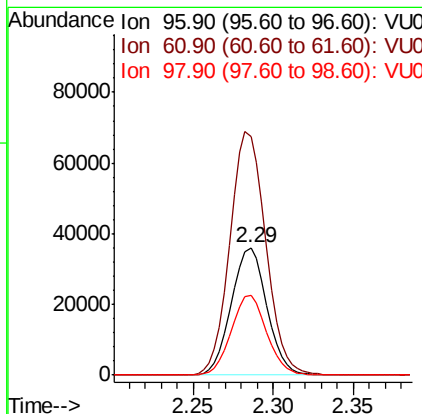
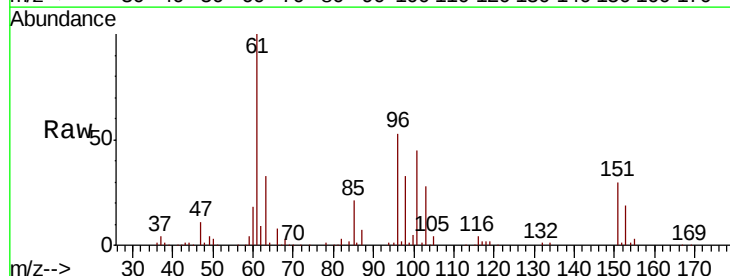
MMDadoda
 9/24/2018 4:40:34 PM

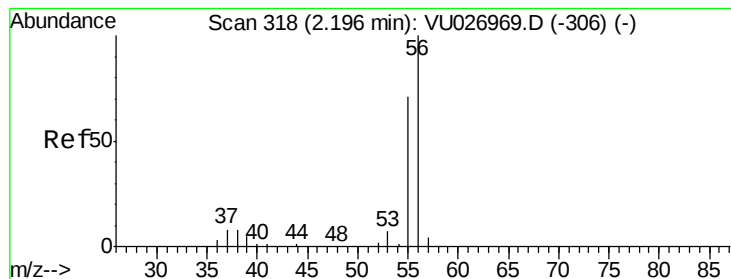


#12

1,1-Dichloroethene
 Concen: 50.450 ug/l
 RT: 2.29 min Scan# 346
 Delta R.T. 0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Tgt Ion	Ratio	Lower	Upper
96	100		
61	188.0	156.1	234.1
98	62.6	51.4	77.0





#13

Acrolein

Concen: 235.799 ug/l

RT: 2.20 min Scan# 318

Delta R.T. 0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ123I1-20180914MSD

Tot Ion: 56 Resp: 45842

Ion Ratio Lower Upper

56 100

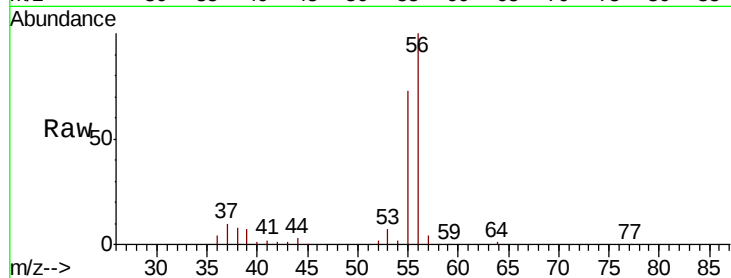
55 72.2 57.1 85.7

Manual Integrations

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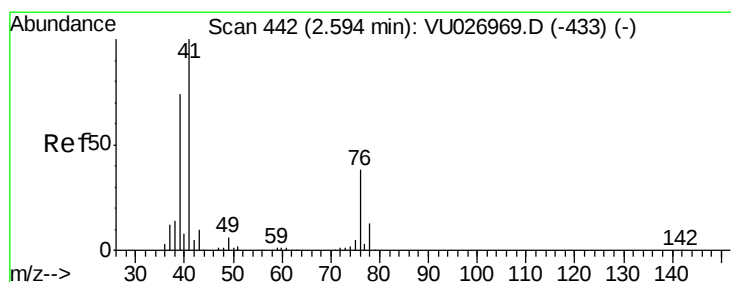
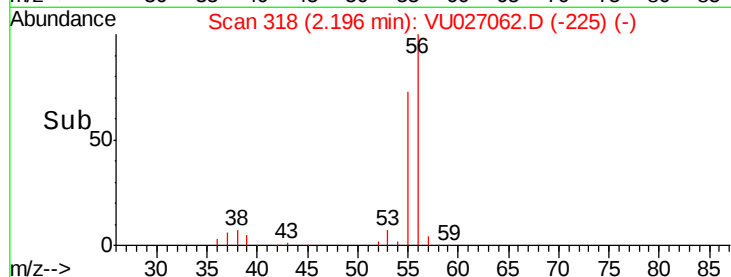
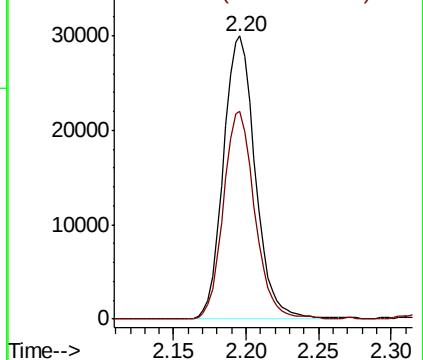
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#14

Allyl chloride

Concen: 53.217 ug/l

RT: 2.59 min Scan# 442

Delta R.T. 0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

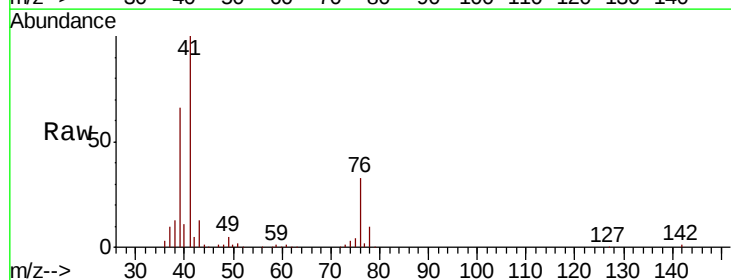
Tgt Ion: 41 Resp: 116544

Ion Ratio Lower Upper

41 100

39 65.4 55.7 83.5

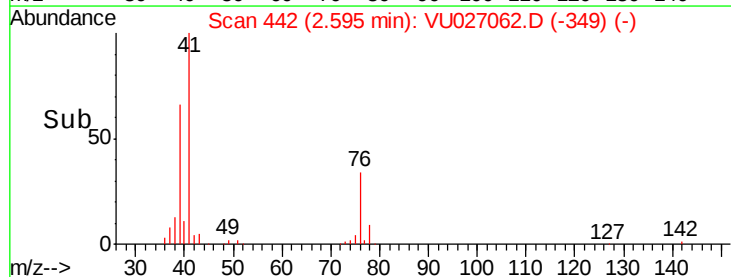
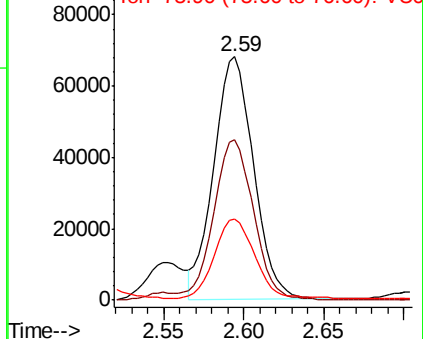
76 33.3 26.5 39.7

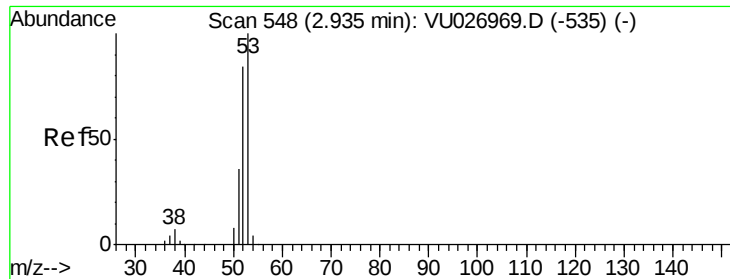


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0





#15

Acrylonitrile

Concen: 270.640 ug/l

RT: 2.94 min Scan# 548

Delta R.T. 0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Instrument :

MSVOA_U

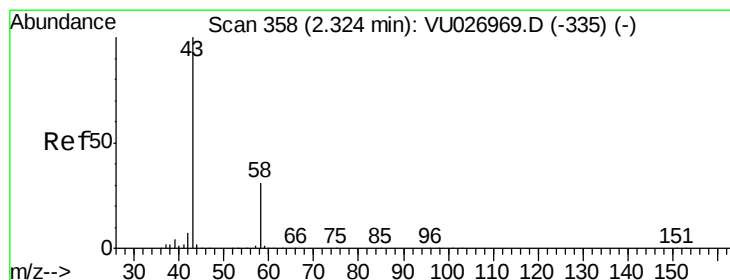
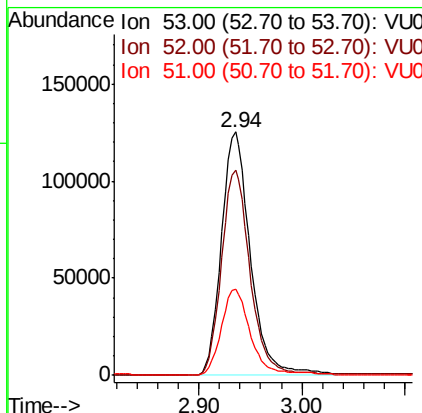
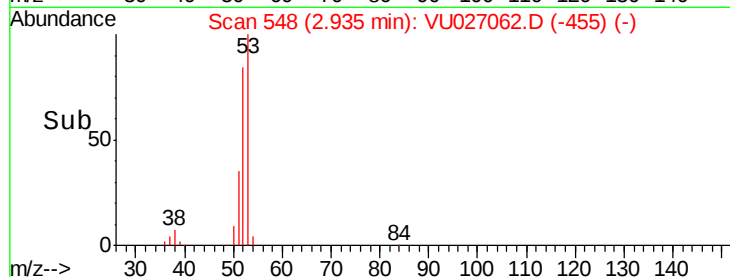
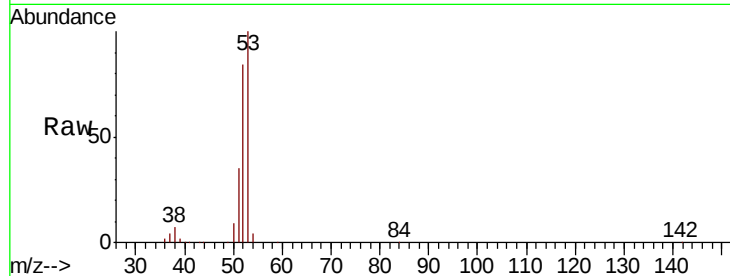
ClientSampleId :

SA-PZ123I1-20180914MSD

Tot Ion:	53	Resp:	246001
Ion	Ratio	Lower	Upper
53	100		
52	83.5	65.7	98.5
51	36.1	27.4	41.2

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#16

Acetone

Concen: 269.873 ug/l

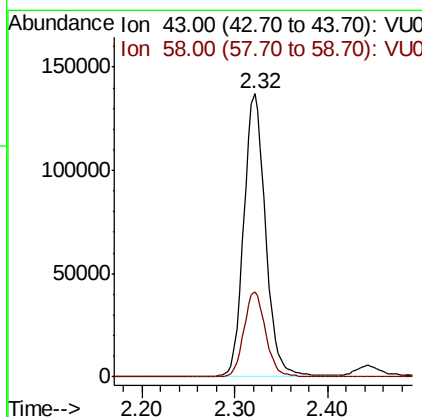
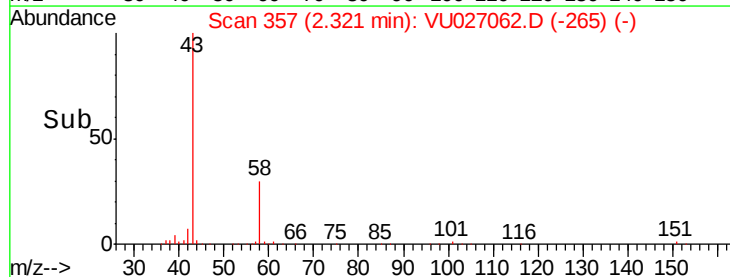
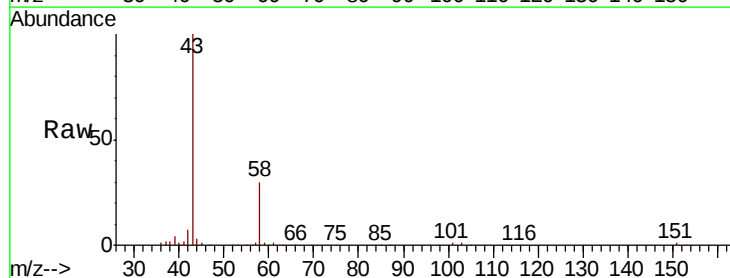
RT: 2.32 min Scan# 357

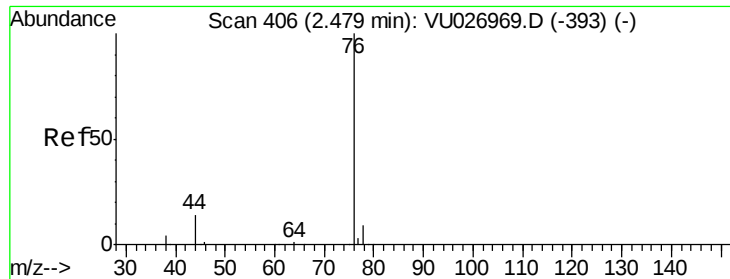
Delta R.T. -0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Tgt Ion:	43	Resp:	224457
Ion	Ratio	Lower	Upper
43	100		
58	30.2	24.6	36.8





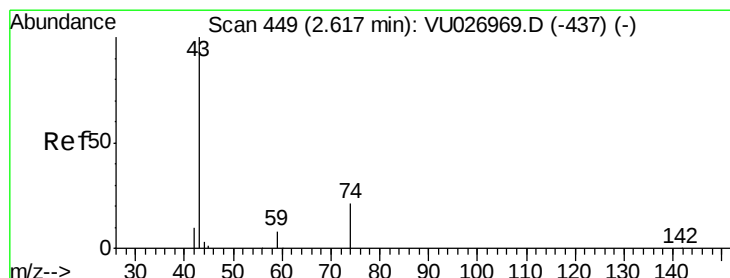
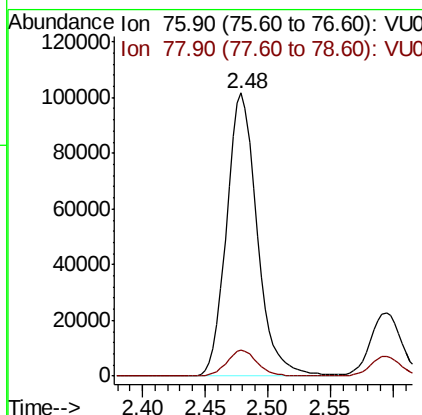
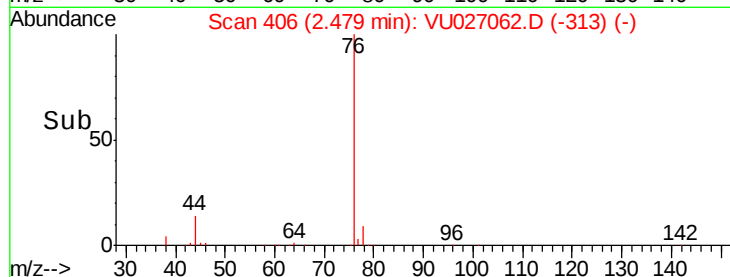
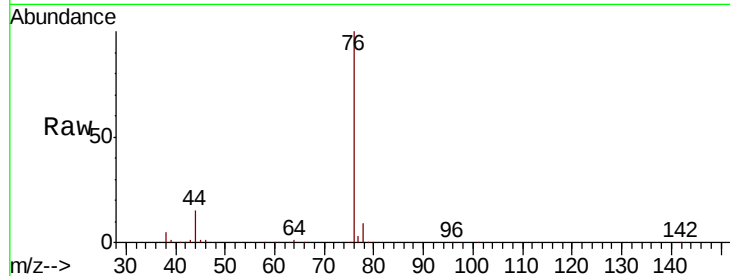
#17
Carbon Disulfide
Concen: 49.027 ug/l
RT: 2.48 min Scan# 406
Delta R.T. 0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Instrument :
MSVOA_U
ClientSampleId :
SA-PZ123I1-20180914MSD

Tot Ion: 76 Resp: 172450
Ion Ratio Lower Upper
76 100
78 9.2 7.1 10.7

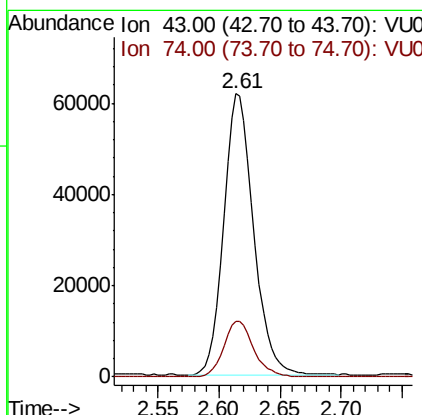
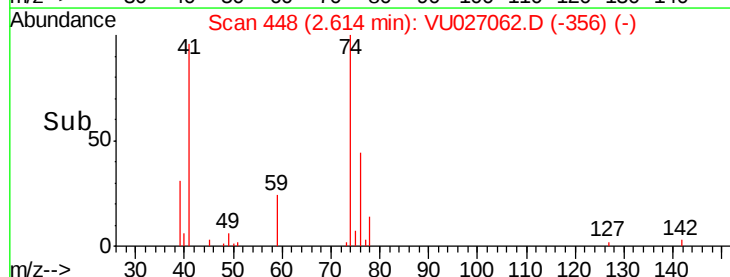
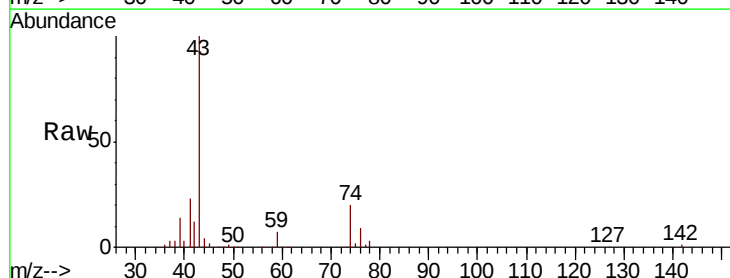
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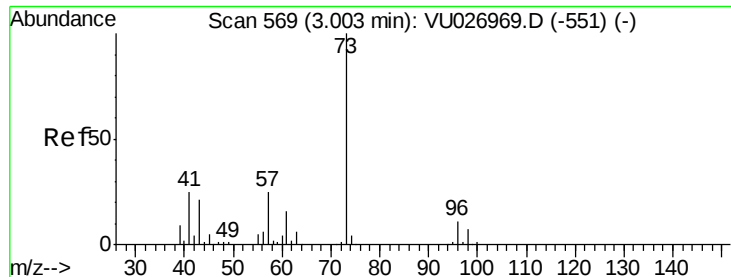
MMDadoda
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#18
Methyl Acetate
Concen: 47.216 ug/l
RT: 2.61 min Scan# 448
Delta R.T. -0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Tgt Ion: 43 Resp: 105742
Ion Ratio Lower Upper
43 100
74 20.2 16.6 25.0





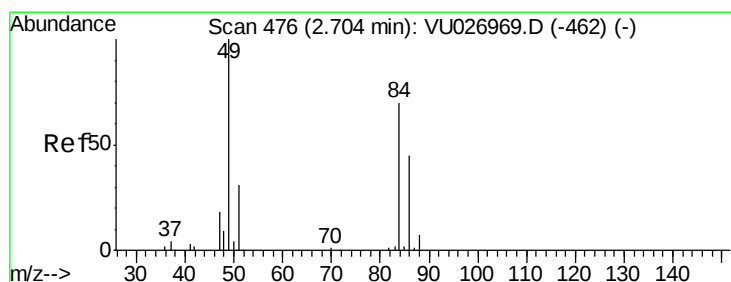
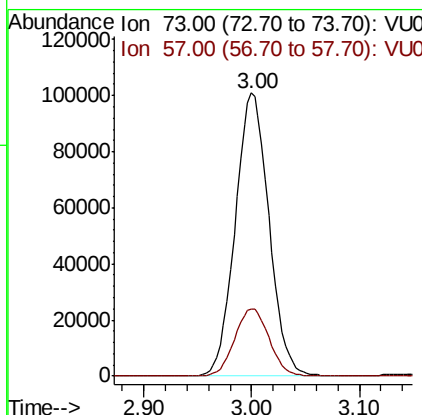
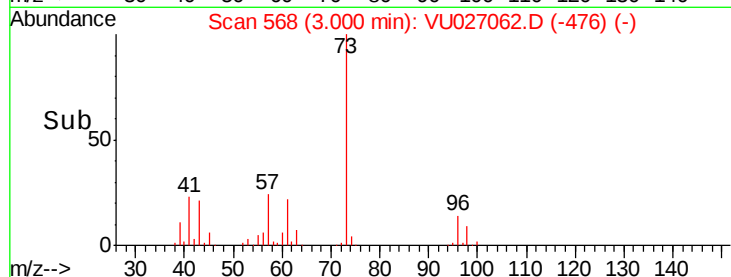
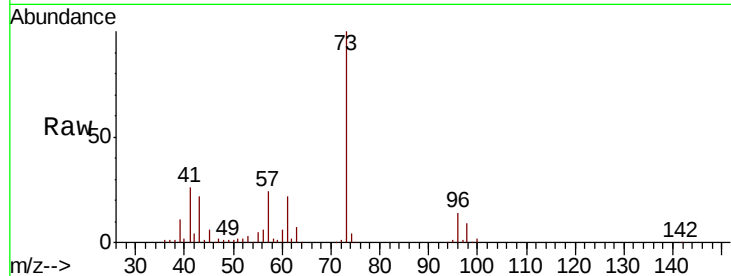
#19
Methyl tert-butyl Ether
Concen: 55.393 ug/l
RT: 3.00 min Scan# 568
Delta R.T. -0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Instrument :
MSVOA_U
ClientSampleId :
SA-PZ123I1-20180914MSD

Tot Ion: 73 Resp: 219787
Ion Ratio Lower Upper
73 100
57 23.8 19.8 29.6

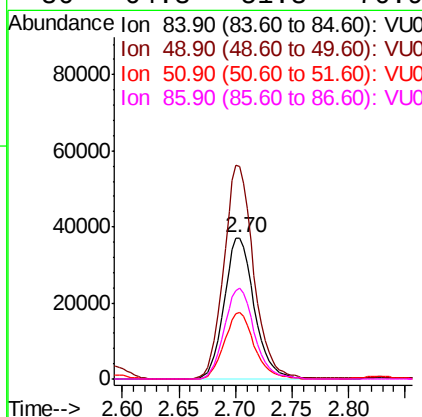
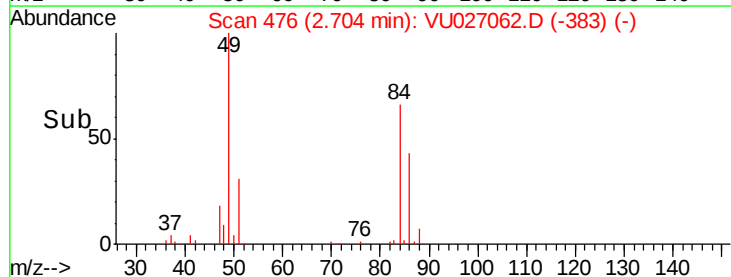
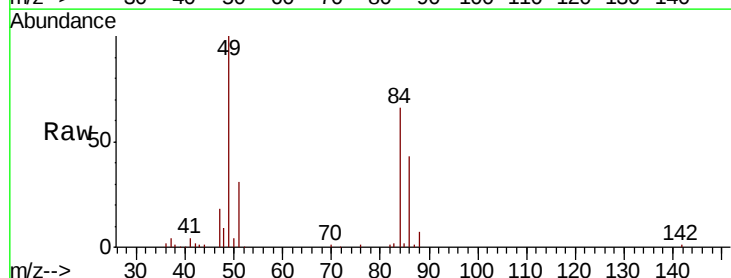
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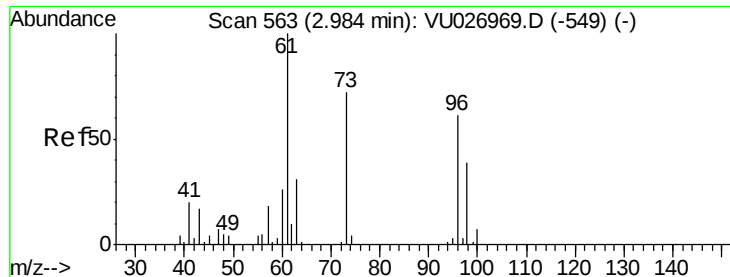
MMDadoda
9/24/2018 4:40:34 PM



#20
Methylene Chloride
Concen: 48.858 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Tgt Ion: 84 Resp: 68848
Ion Ratio Lower Upper
84 100
49 150.6 114.9 172.3
51 47.1 35.8 53.8
86 64.3 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 52.931 ug/l

RT: 2.98 min Scan# 563

Delta R.T. 0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ123I1-20180914MSD

Tot Ion: 96 Resp: 61019

Ion Ratio Lower Upper

96 100

61 163.9 131.8 197.6

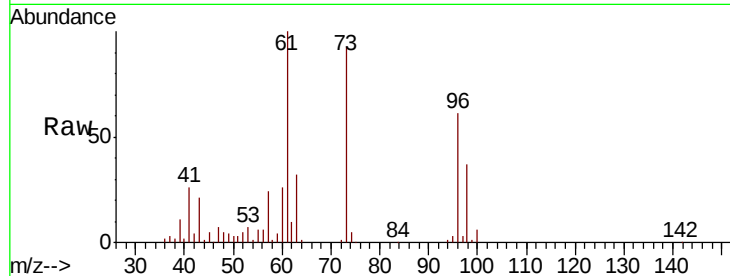
98 61.1 50.9 76.3

Manual Integrations

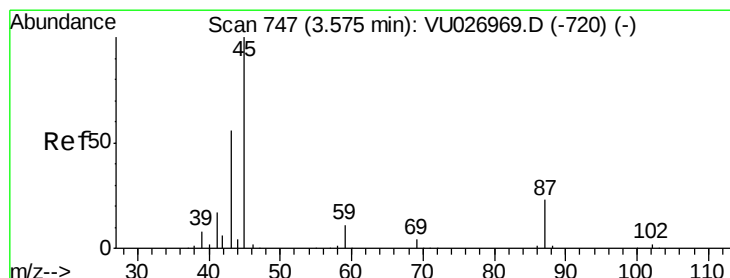
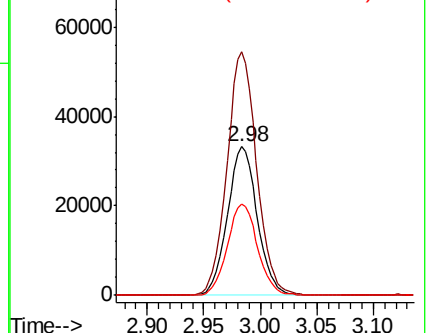
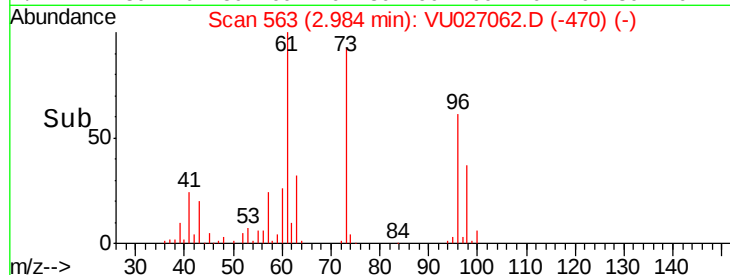
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Abundance Ion 95.90 (95.60 to 96.60): VU027062.D (-470) (-)



#22

Diisopropyl ether

Concen: 57.729 ug/l

RT: 3.57 min Scan# 746

Delta R.T. -0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Tgt Ion: 45 Resp: 270410

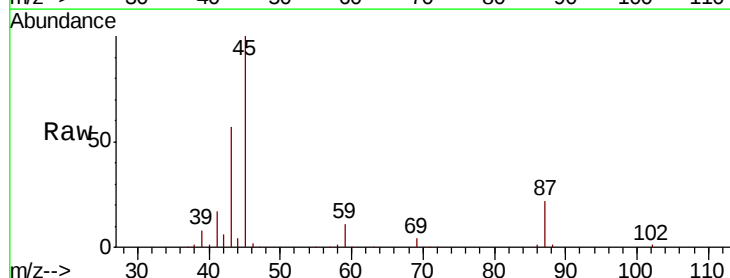
Ion Ratio Lower Upper

45 100

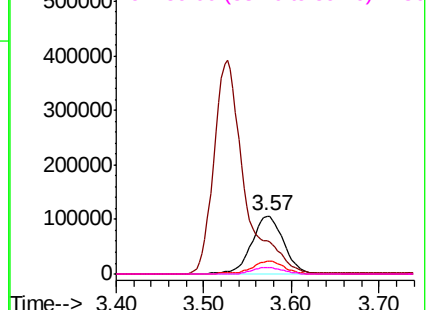
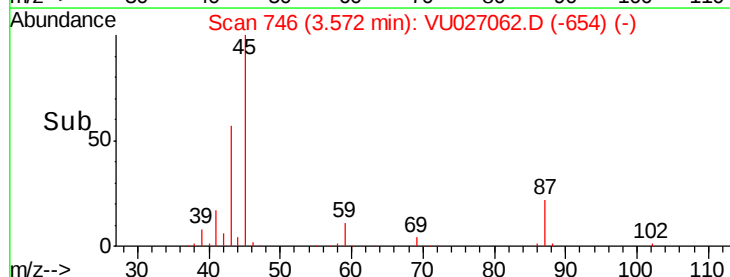
43 55.6 45.8 68.6

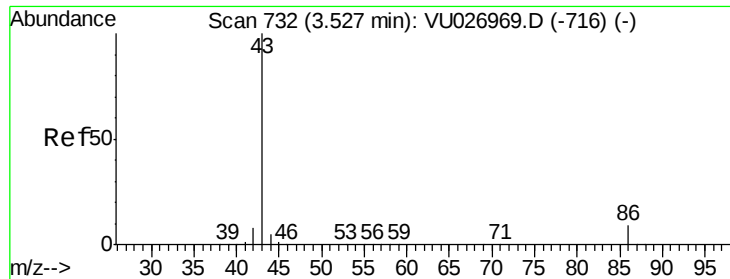
87 22.2 18.6 28.0

59 11.1 9.0 13.4



Abundance Ion 45.00 (44.70 to 45.70): VU027062.D (-654) (-)





#23

Vinyl Acetate

Concen: 237.868 ug/l

RT: 3.53 min Scan# 732

Delta R.T. 0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ123I1-20180914MSD

Tot Ion: 43 Resp: 949776

Ion Ratio Lower Upper

43 100

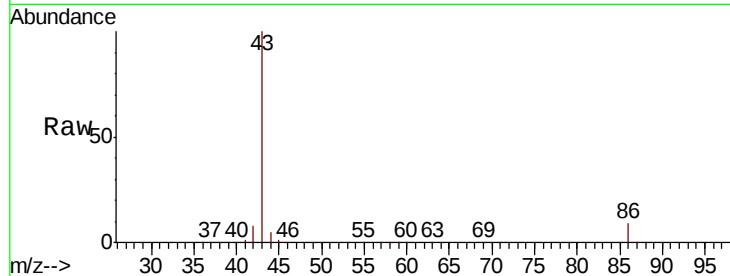
86 8.6 7.2 10.8

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VU027062.D (-639) (-)

Ion 86.00 (85.70 to 86.70): VU027062.D (-639) (-)

3.53

400000

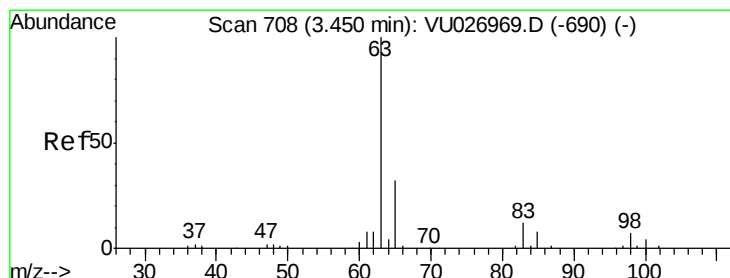
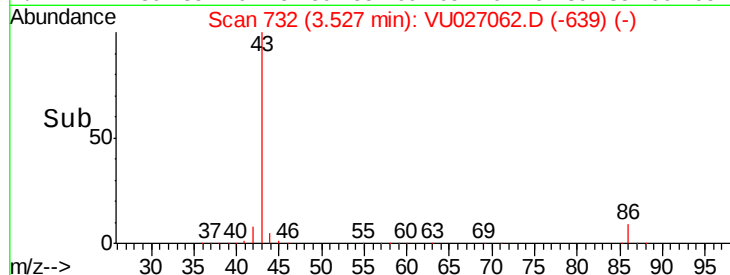
300000

200000

100000

0

Time-->



#24

1,1-Dichloroethane

Concen: 54.282 ug/l

RT: 3.45 min Scan# 707

Delta R.T. -0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

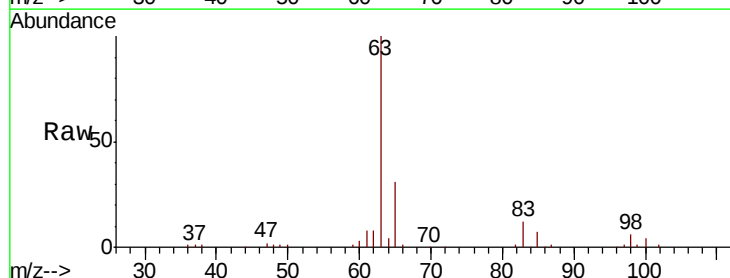
Tgt Ion: 63 Resp: 140040

Ion Ratio Lower Upper

63 100

98 6.5 3.3 9.8

100 3.6 2.0 5.8



Abundance Ion 62.90 (62.60 to 63.60): VU027062.D (-615) (-)

Ion 97.90 (97.60 to 98.60): VU027062.D (-615) (-)

Ion 99.90 (99.60 to 100.60): VU027062.D (-615) (-)

3.45

80000

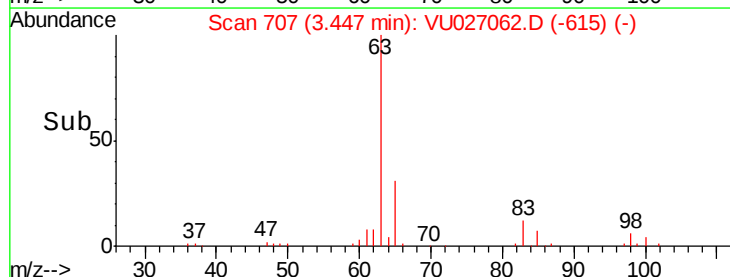
60000

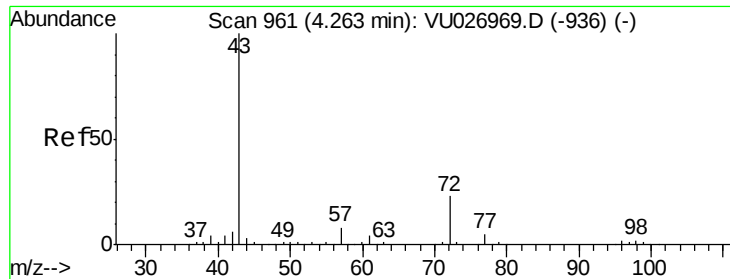
40000

20000

0

Time-->





#25

2-Butanone

Concen: 266.773 ug/l

RT: 4.26 min Scan# 960

Delta R.T. -0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ123I1-20180914MSD

Tot Ion: 43 Resp: 352754

Ion Ratio Lower Upper

43 100

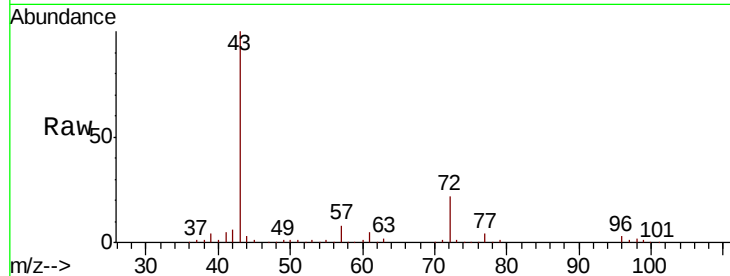
72 22.2 18.4 27.6

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

150000

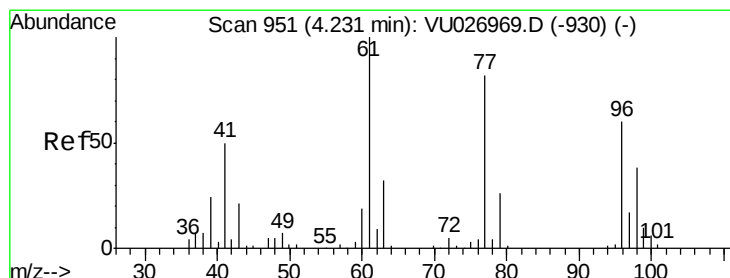
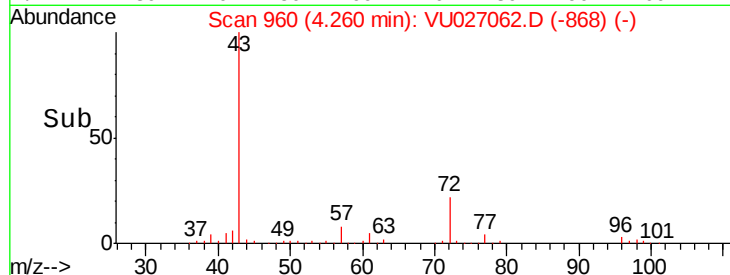
100000

50000

0

4.20 4.30

Time-->



#26

2,2-Dichloropropane

Concen: 36.309 ug/l

RT: 4.23 min Scan# 951

Delta R.T. 0.00 min

Lab File: VU027062.D

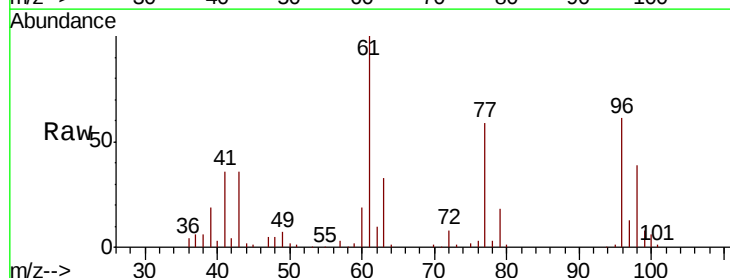
Acq: 23 Sep 2018 09:58

Tgt Ion: 77 Resp: 73052

Ion Ratio Lower Upper

77 100

97 22.1 10.5 31.5



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0

30000

25000

20000

15000

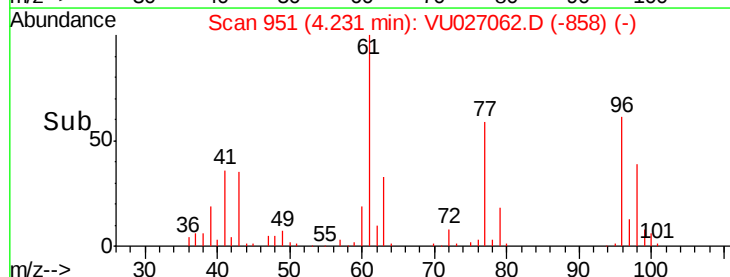
10000

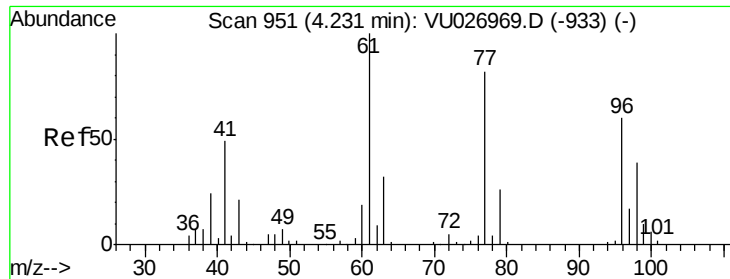
5000

0

4.10 4.20 4.30

Time-->





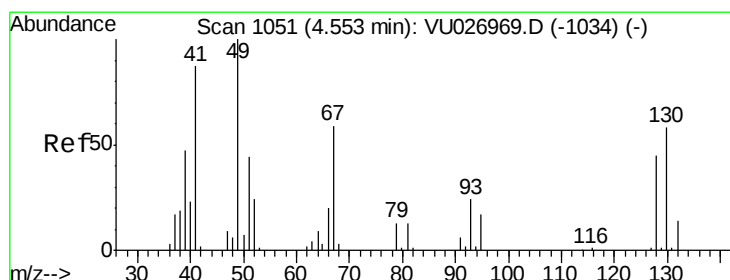
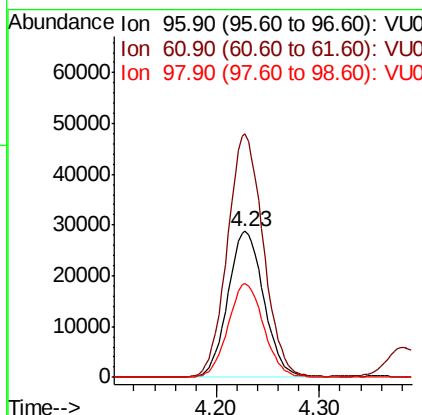
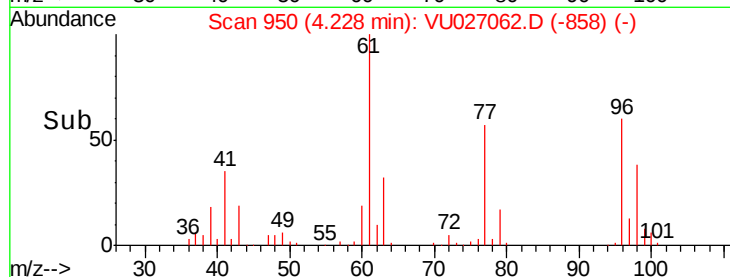
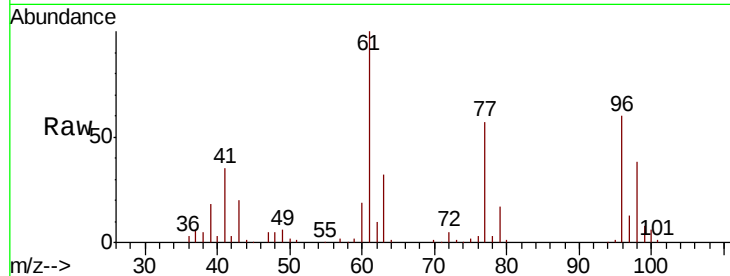
#27
 cis-1,2-Dichloroethene
 Concen: 53.630 ug/l
 RT: 4.23 min Scan# 950
 Delta R.T. -0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ123I1-20180914MSD

Tot Ion	Ratio	Lower	Upper
96	100		
61	166.7	0.0	337.2
98	63.7	0.0	127.6

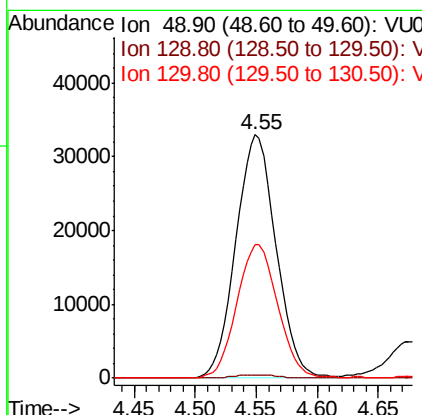
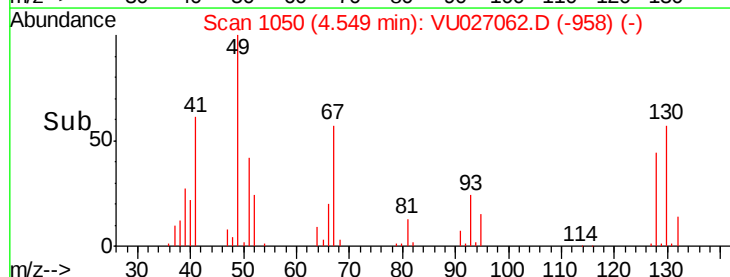
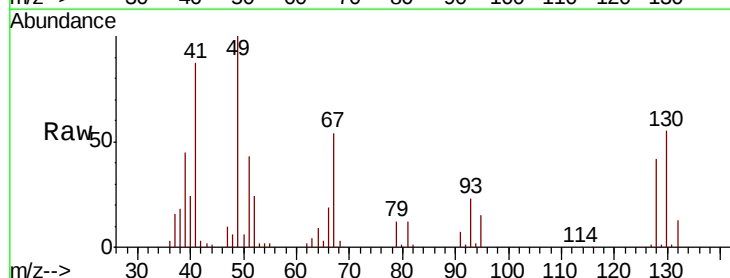
Manual Integrations
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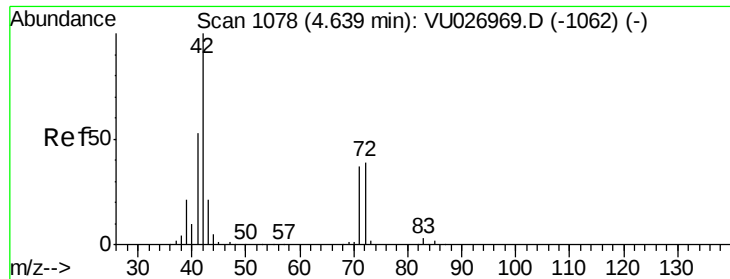
MMDadoda
 9/24/2018 4:40:34 PM



#28
 Bromochloromethane
 Concen: 60.440 ug/l
 RT: 4.55 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	3.0
130	55.7	47.8	71.8





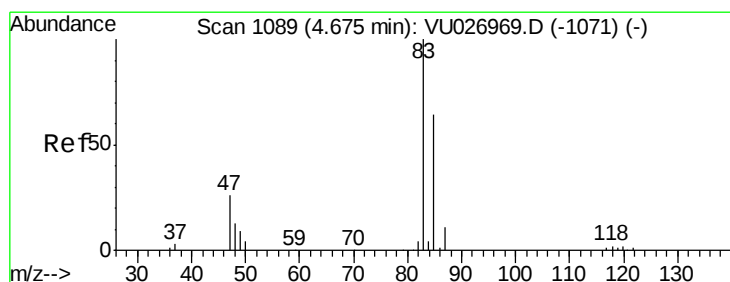
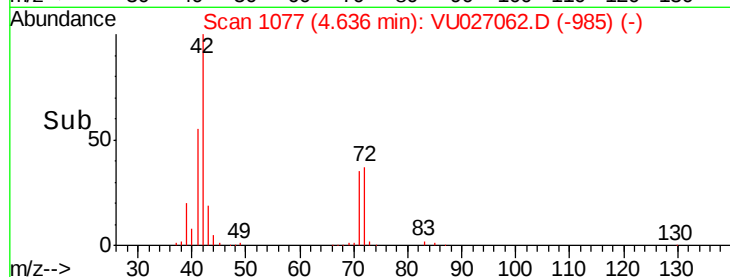
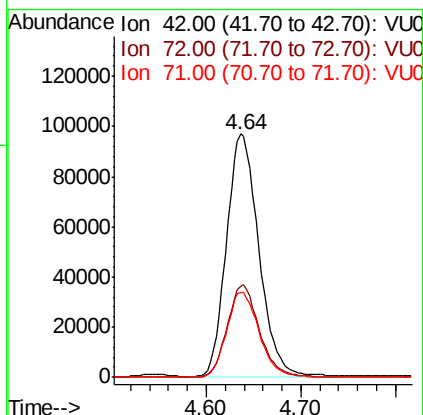
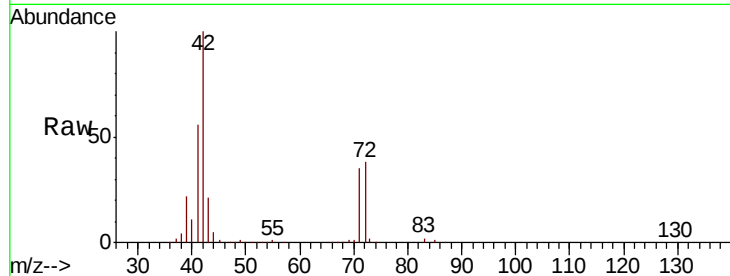
#29
Tetrahydrofuran
Concen: 287.088 ug/l
RT: 4.64 min Scan# 1077
Delta R.T. -0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Instrument :
MSVOA_U
ClientSampleId :
SA-PZ123I1-20180914MSD

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.9	31.7	47.5
71	35.2	29.6	44.4

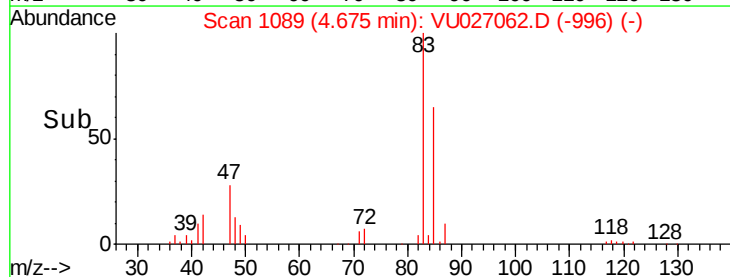
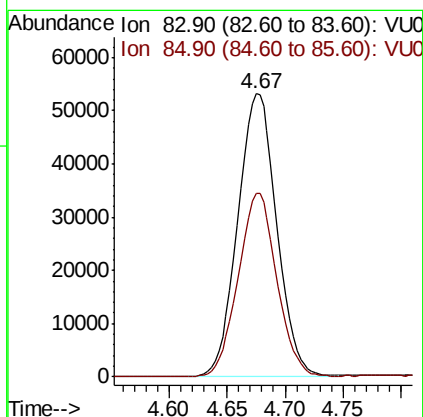
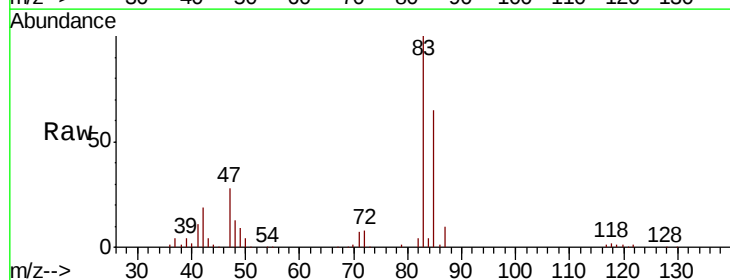
Manual Integrations
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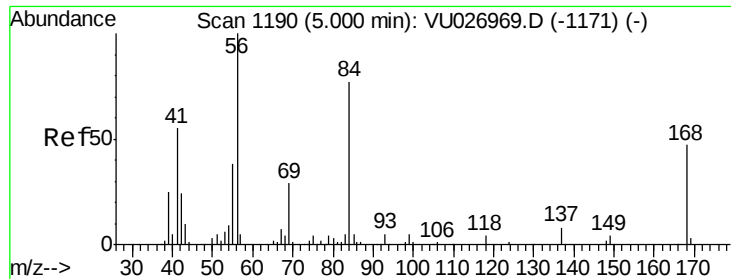
MMDadoda
9/24/2018 4:40:34 PM



#30
Chloroform
Concen: 51.991 ug/l
RT: 4.67 min Scan# 1089
Delta R.T. 0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.5	77.3





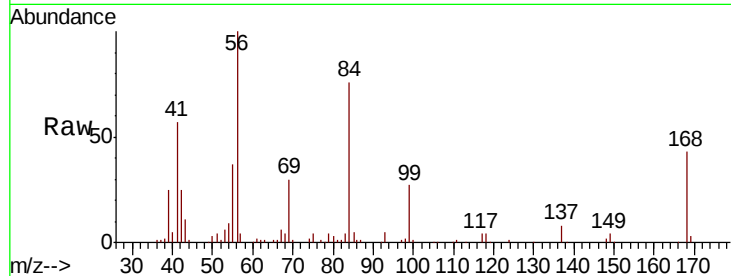
#31
Cyclohexane
Concen: 52.550 ug/l
RT: 5.00 min Scan# 1190
Delta R.T. 0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Instrument :
MSVOA_U
ClientSampleId :
SA-PZ123I1-20180914MSD

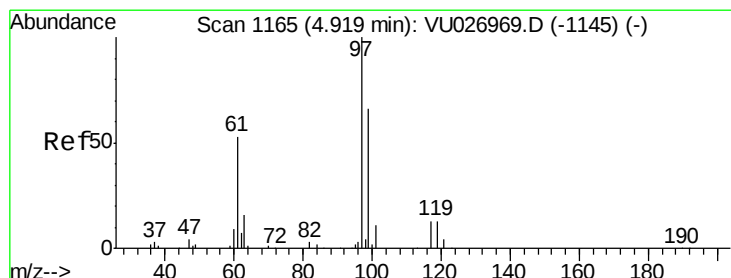
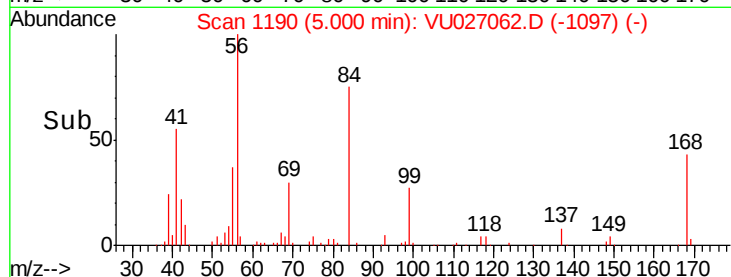
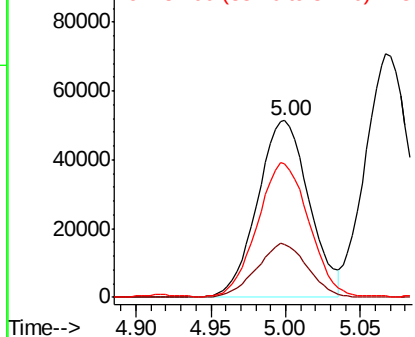
Tot Ion	Ratio	Lower	Upper
56	100		
69	30.3	23.0	34.4
84	75.3	61.4	92.2

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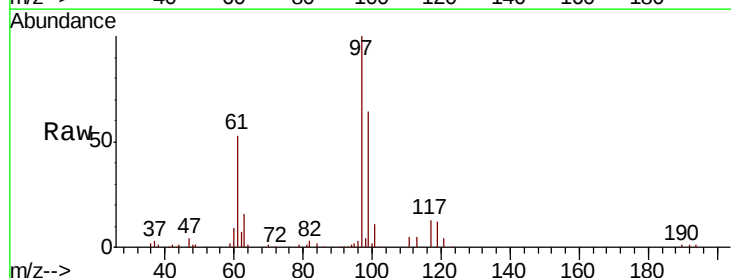


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

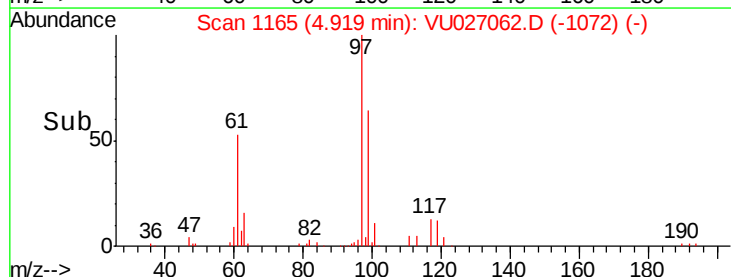
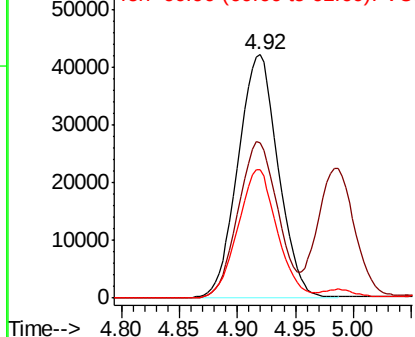


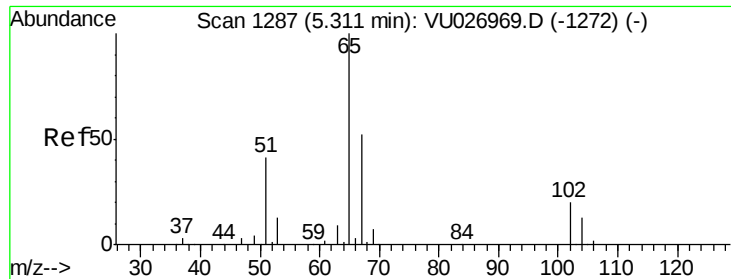
#32
1,1,1-Trichloroethane
Concen: 53.469 ug/l
RT: 4.92 min Scan# 1165
Delta R.T. 0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.8	77.6
61	51.7	41.1	61.7



Abundance Ion 96.90 (96.60 to 97.60): VU0
Ion 98.90 (98.60 to 99.60): VU0
Ion 60.90 (60.60 to 61.60): VU0





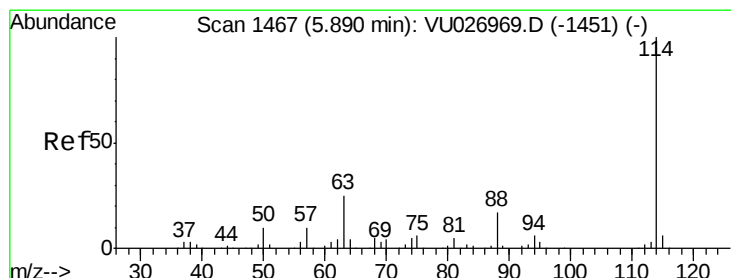
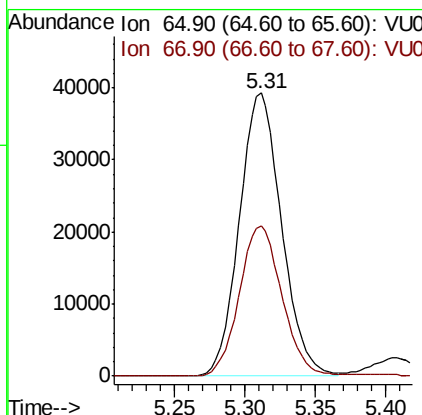
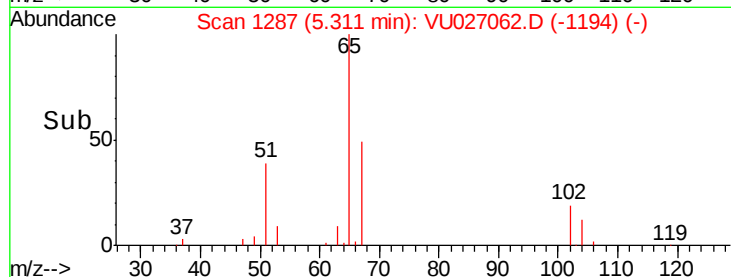
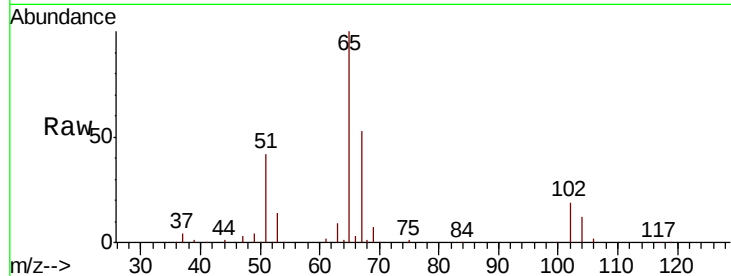
#33
 1,2-Dichloroethane-d4
 Concen: 52.345 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ123I1-20180914MSD

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	105.6

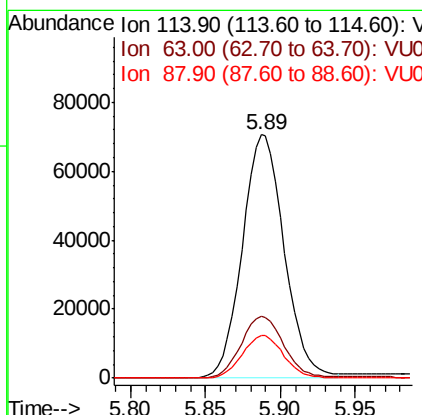
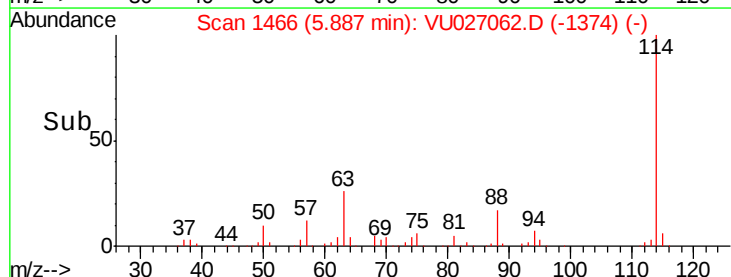
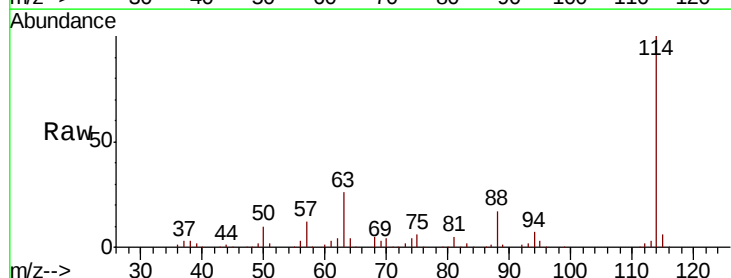
Manual Integrations
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.6	0.0	49.2
88	17.4	0.0	33.8





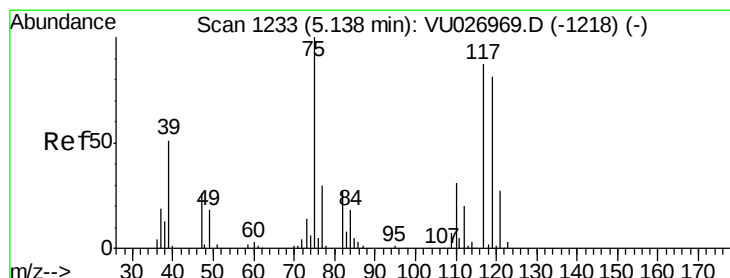
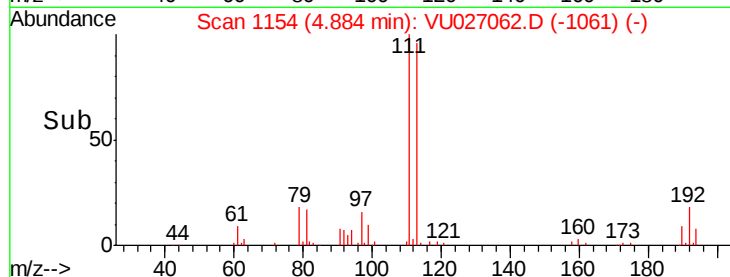
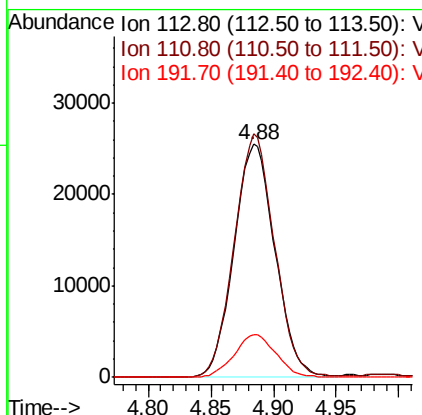
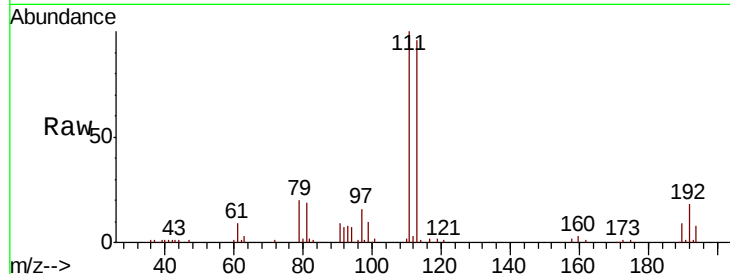
#35
 Dibromofluoromethane
 Concen: 48.808 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ123I1-20180914MSD

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.2	123.4
192	18.5	15.2	22.8

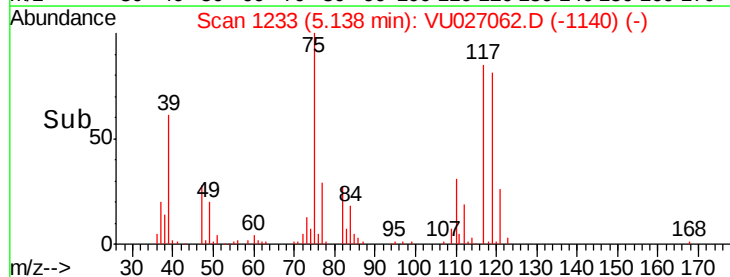
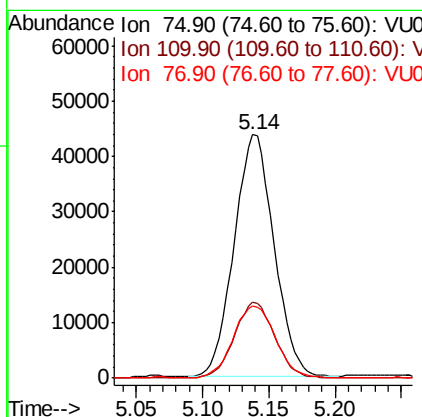
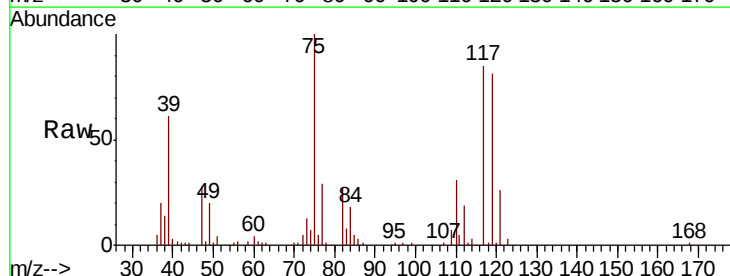
Manual Integrations
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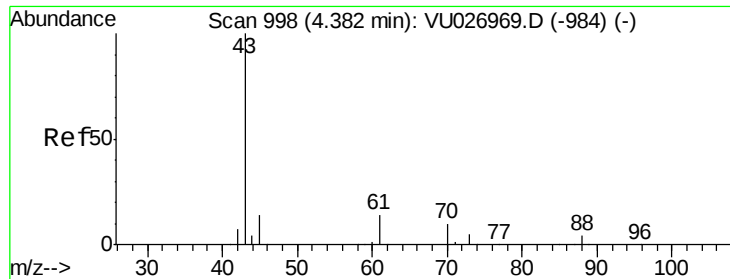
MMDadoda
 9/24/2018 4:40:34 PM



#36
 1,1-Dichloropropene
 Concen: 50.086 ug/l
 RT: 5.14 min Scan# 1233
 Delta R.T. 0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Tgt Ion	Ratio	Lower	Upper
75	100		
110	31.5	16.1	48.2
77	30.9	24.6	36.8





#37

Ethyl Acetate

Concen: 43.956 ug/l

RT: 4.38 min Scan# 998

Delta R.T. 0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Instrument :

MSVOA_U

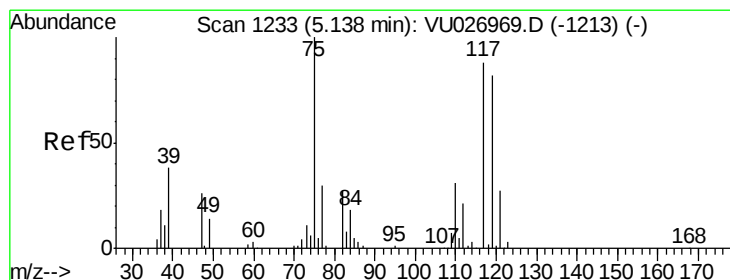
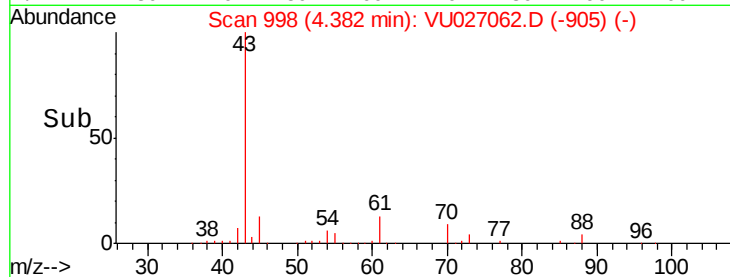
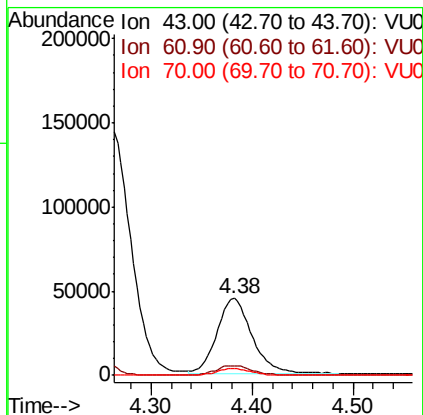
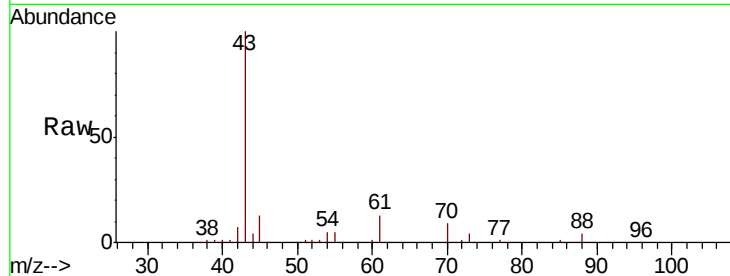
ClientSampleId :

SA-PZ123I1-20180914MSD

Tot Ion:	43	Resp:	109103
Ion	Ratio	Lower	Upper
43	100		
61	13.3	10.5	15.7
70	8.7	7.4	11.0

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 49.184 ug/l

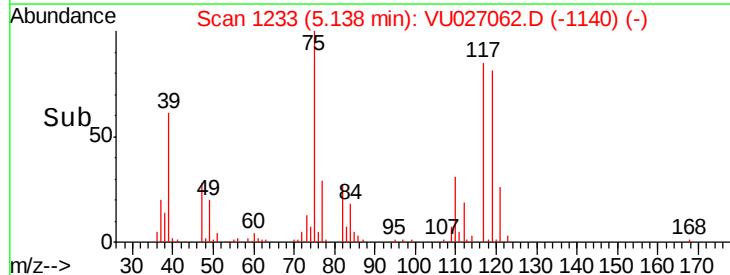
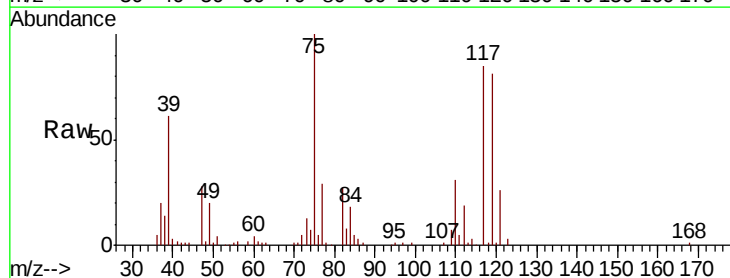
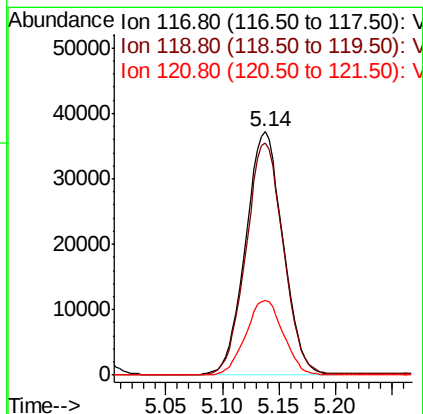
RT: 5.14 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Tgt Ion:	117	Resp:	85816
Ion	Ratio	Lower	Upper
117	100		
119	95.4	74.4	111.6
121	30.9	24.2	36.4





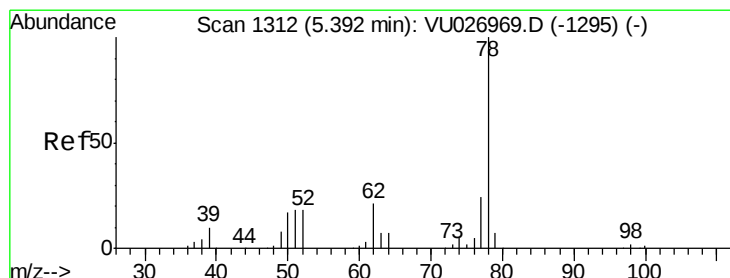
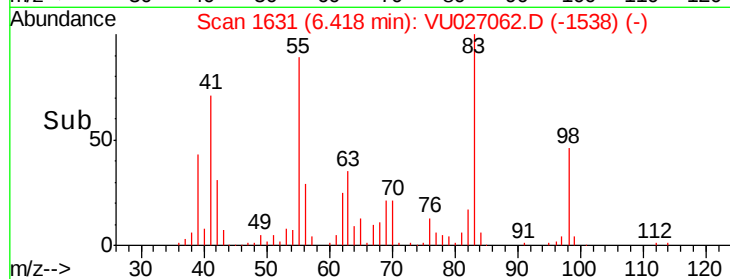
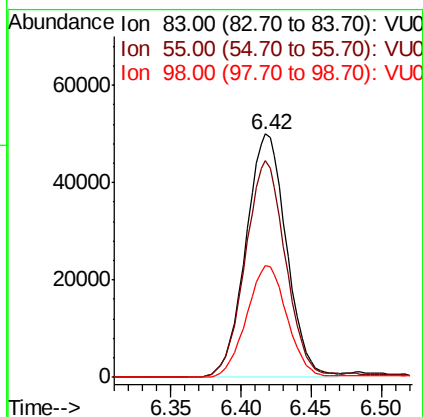
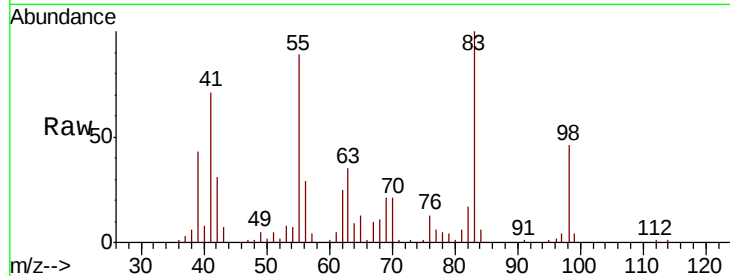
#39
Methvlcvclohexane
Concen: 50.528 ug/l
RT: 6.42 min Scan# 1631
Delta R.T. 0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Instrument :
MSVOA_U
ClientSampleId :
SA-PZ123I1-20180914MSD

Tot Ion	83	Resp	100677
Ion Ratio	Lower	Upper	
83	100		
55	88.9	69.9	104.9
98	45.7	37.5	56.3

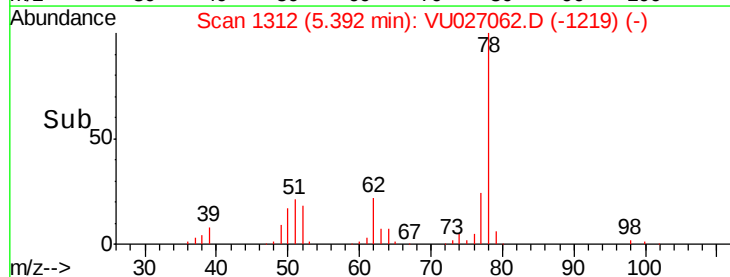
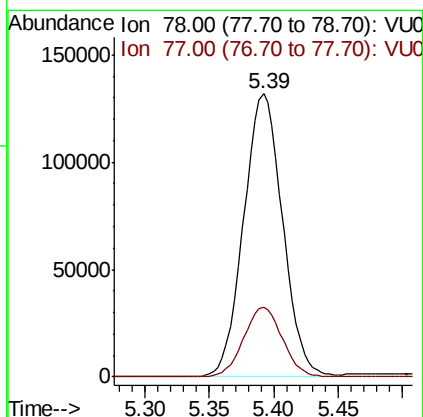
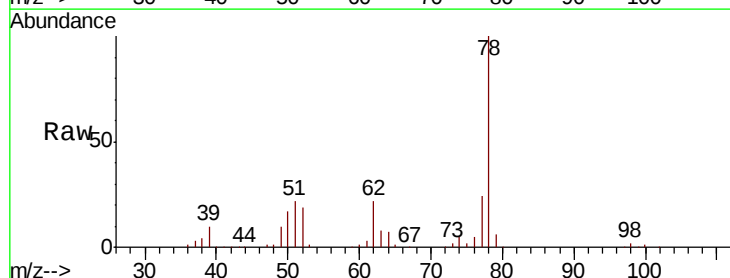
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#40
Benzene
Concen: 49.946 ug/l
RT: 5.39 min Scan# 1312
Delta R.T. 0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Tgt Ion	78	Resp	278386
Ion Ratio	Lower	Upper	
78	100		
77	24.4	19.4	29.0





#41

Methacrylonitrile

Concen: 57.342 ug/l

RT: 4.54 min Scan# 1048

Delta R.T. -0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ123I1-20180914MSD

Tot Ion: 41 Resp: 73917

Ion Ratio Lower Upper

41 100

39 53.3 42.9 64.3

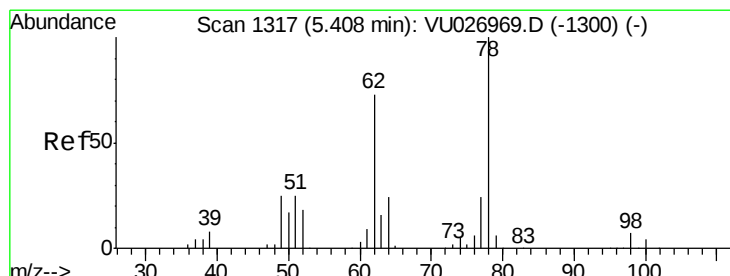
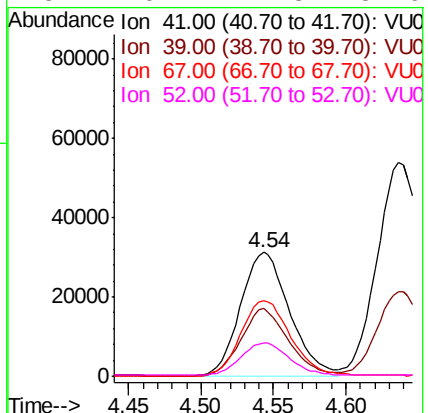
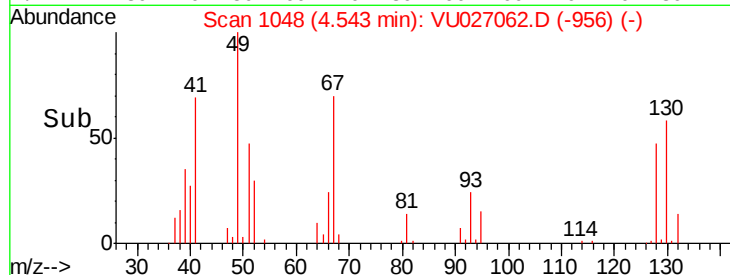
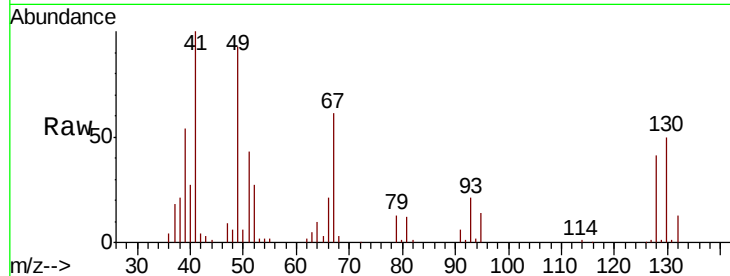
67 62.6 52.4 78.6

52 26.2 21.3 31.9

Manual Integrations
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9/24/2018 4:40:34 PM



#42

1,2-Dichloroethane

Concen: 51.611 ug/l

RT: 5.41 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VU027062.D

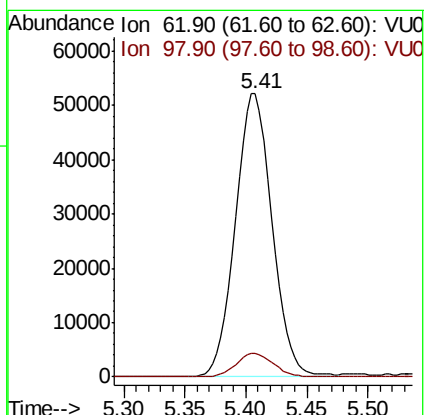
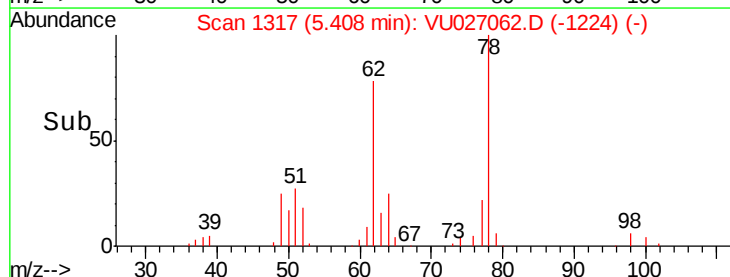
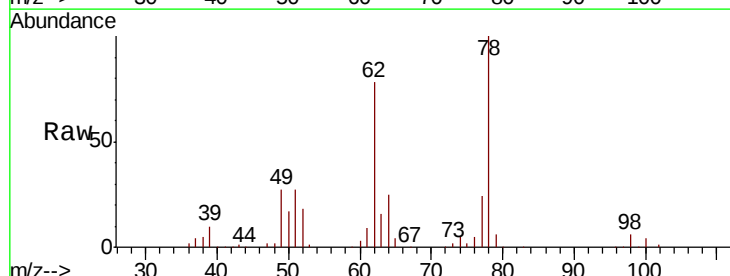
Acq: 23 Sep 2018 09:58

Tgt Ion: 62 Resp: 108686

Ion Ratio Lower Upper

62 100

98 8.3 0.0 17.0





#43

Isopropyl Acetate

Concen: 50.071 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. -0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Instrument :

MSVOA_U

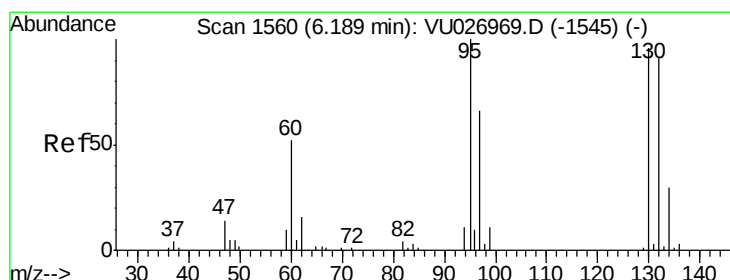
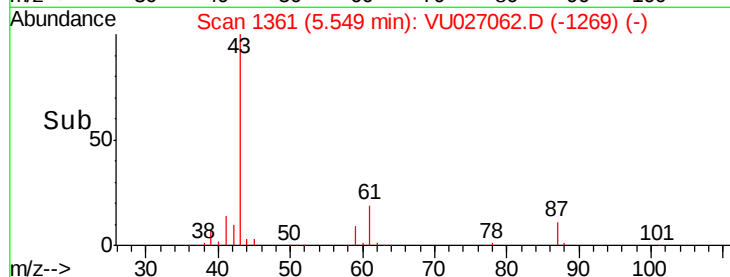
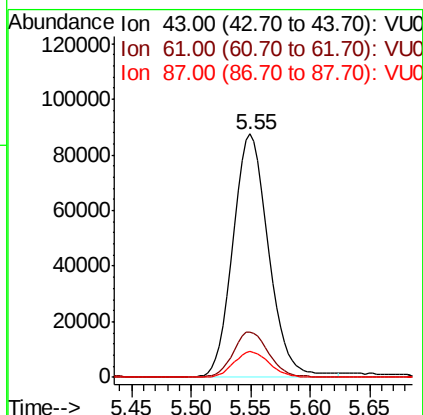
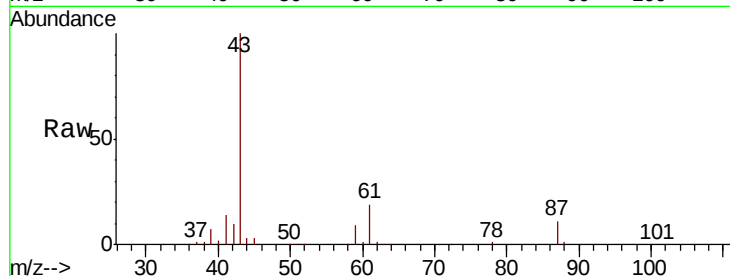
ClientSampleId :

SA-PZ123I1-20180914MSD

Tot Ion:	43	Resp:	181247
Ion	Ratio	Lower	Upper
43	100		
61	18.8	15.7	23.5
87	10.6	9.0	13.4

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#44

Trichloroethene

Concen: 49.127 ug/l

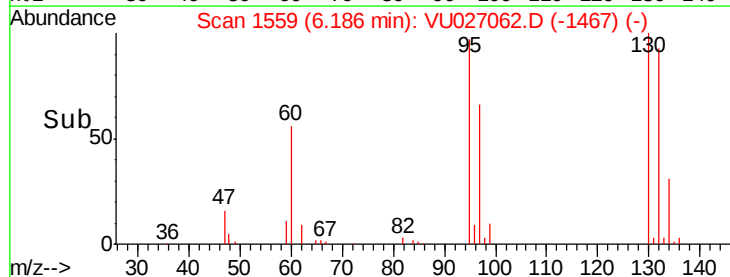
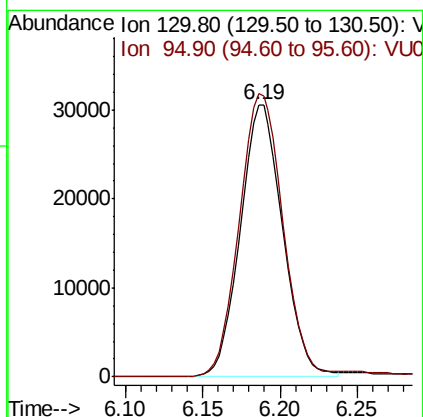
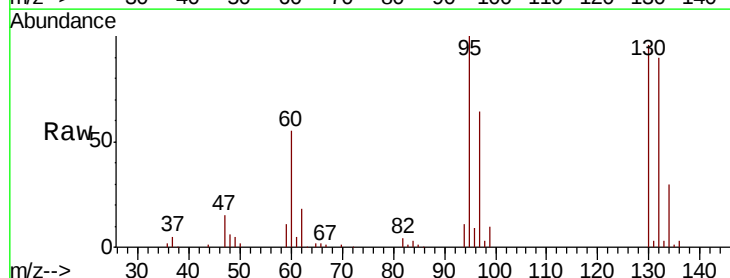
RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Tgt Ion:	130	Resp:	58294
Ion	Ratio	Lower	Upper
130	100		
95	104.0	0.0	208.8





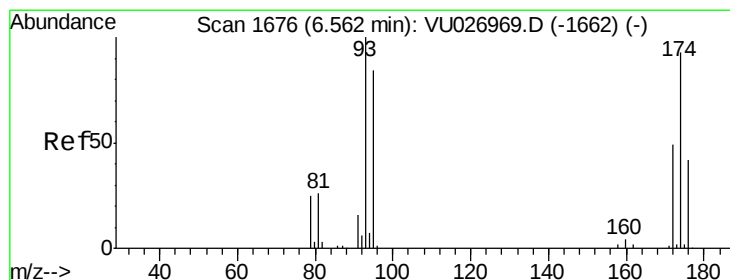
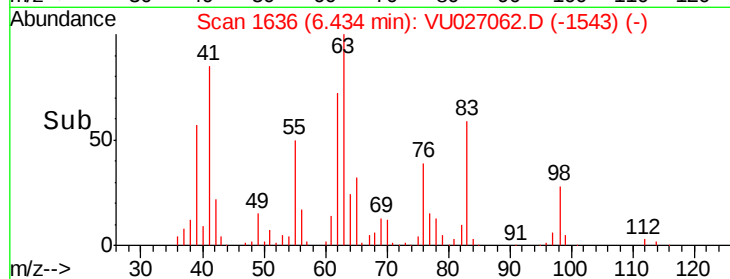
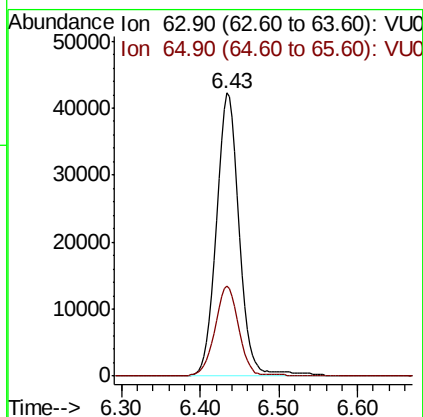
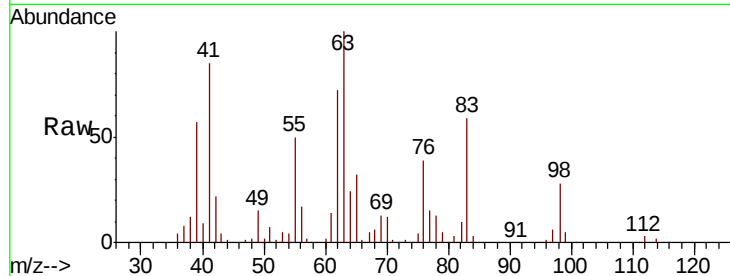
#45
 1,2-Dichloropropane
 Concen: 53.322 ug/l
 RT: 6.43 min Scan# 1636
 Delta R.T. 0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ123I1-20180914MSD

Tot Ion: 63 Resp: 84684
 Ion Ratio Lower Upper
 63 100
 65 31.8 24.3 36.5

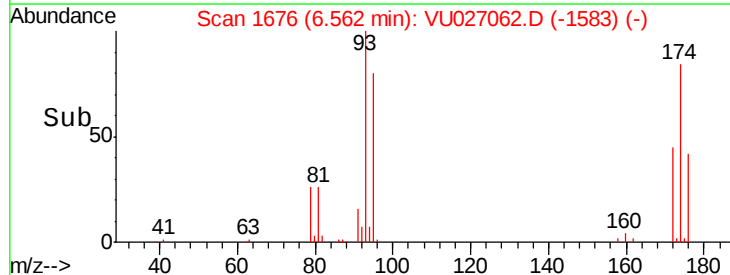
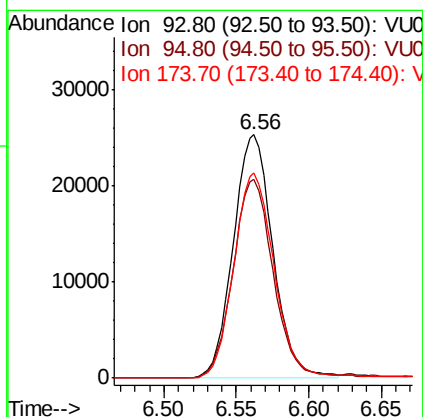
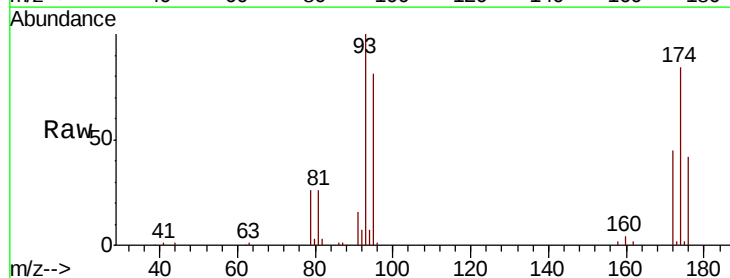
Manual Integrations
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#46
 Dibromomethane
 Concen: 50.225 ug/l
 RT: 6.56 min Scan# 1676
 Delta R.T. 0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Tgt Ion: 93 Resp: 48174
 Ion Ratio Lower Upper
 93 100
 95 83.4 66.2 99.4
 174 86.1 71.7 107.5





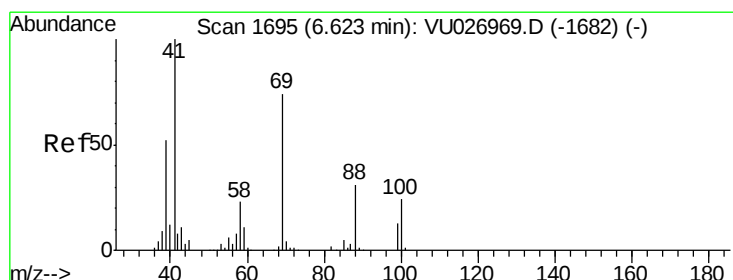
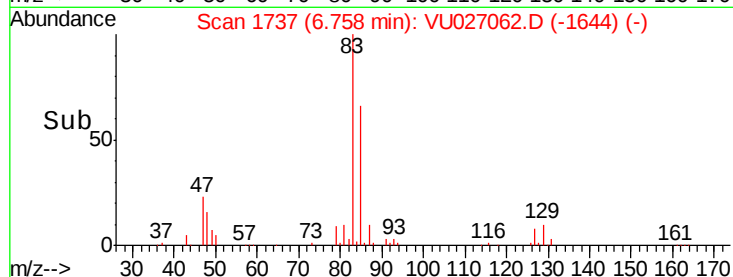
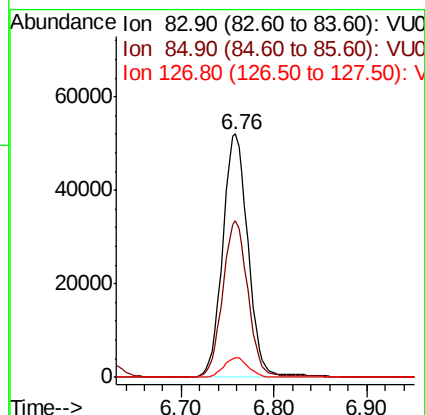
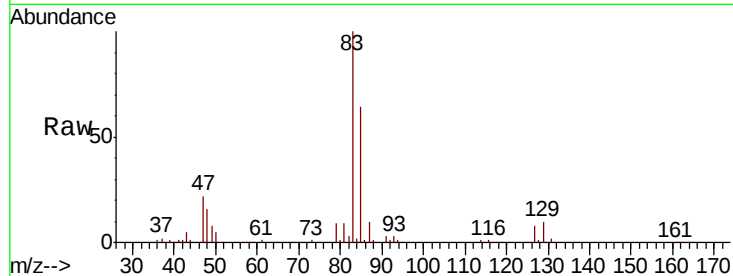
#47
Bromodichloromethane
Concen: 51.037 ug/l
RT: 6.76 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Instrument :
MSVOA_U
ClientSampleId :
SA-PZ123I1-20180914MSD

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
85	64.3	52.5	78.7	
127	7.8	6.3	9.5	

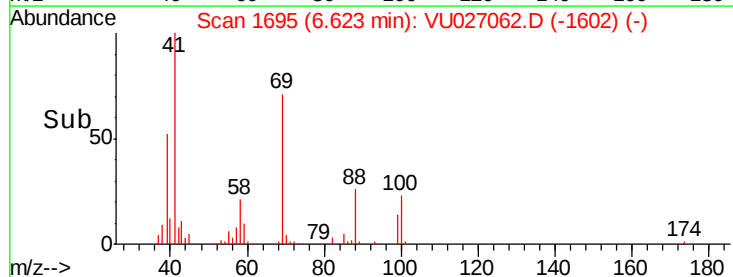
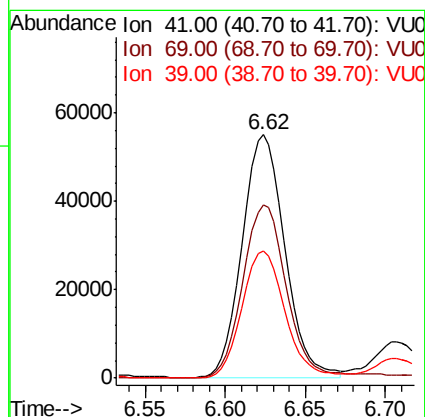
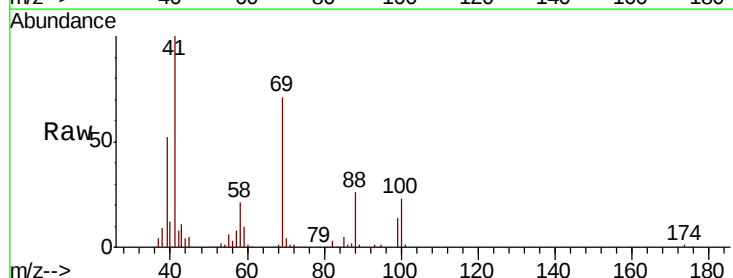
Manual Integrations
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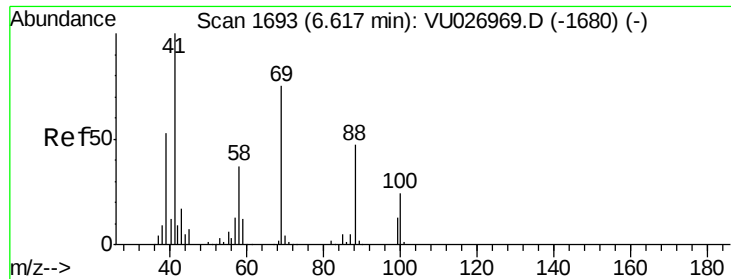
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9/24/2018 4:40:34 PM



#48
Methyl methacrylate
Concen: 50.782 ug/l
RT: 6.62 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Tgt Ion	Ratio	Resp	Lower	Upper
41	100			
69	73.3	60.6	90.8	
39	53.1	42.8	64.2	





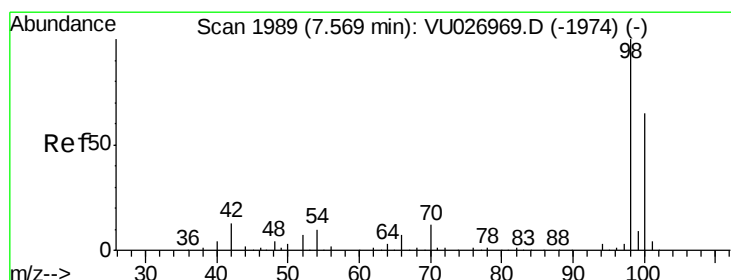
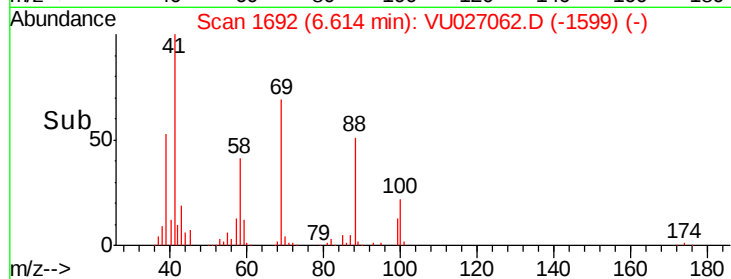
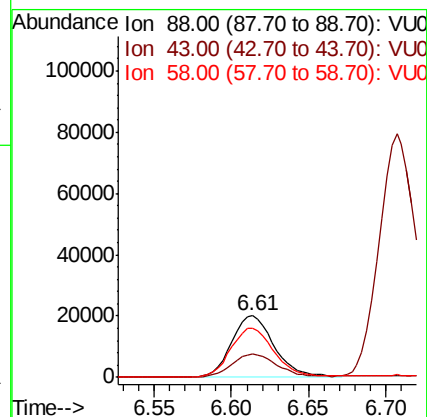
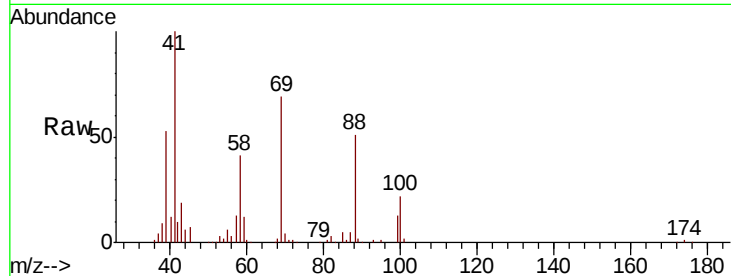
#49
1,4-Dioxane
Concen: 992.269 ug/l
RT: 6.61 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Instrument :
MSVOA_U
ClientSampleId :
SA-PZ123I1-20180914MSD

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	40.3	29.8	44.8	
58	82.3	63.9	95.9	

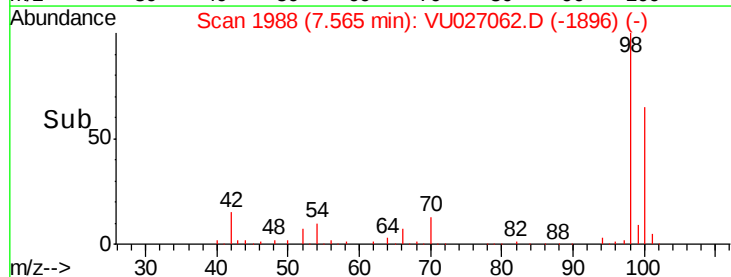
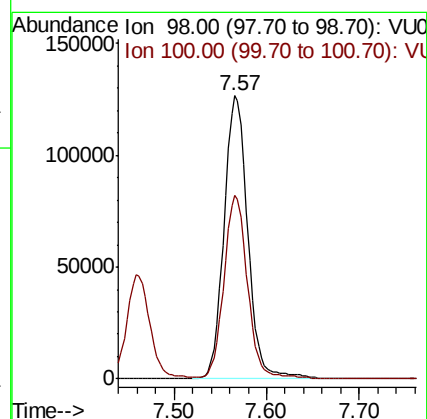
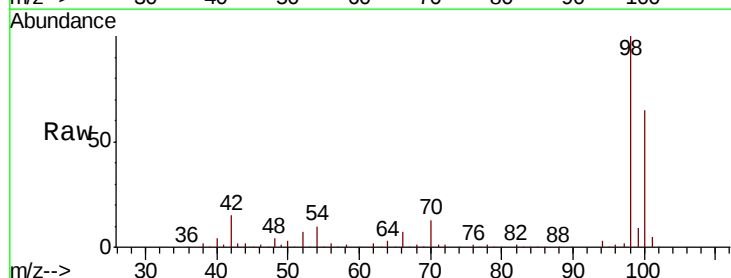
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#50
Toluene-d8
Concen: 49.784 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	64.6	52.1	78.1	





#51

4-Methyl-2-Pentanone

Concen: 279.877 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ123I1-20180914MSD

Tot Ion: 43 Resp: 681368

Ion Ratio Lower Upper

43 100

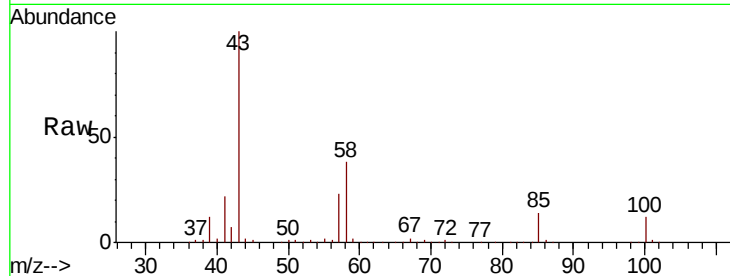
58 37.1 29.8 44.6

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VU026969.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU026969.D (-1939) (-)

7.46

400000

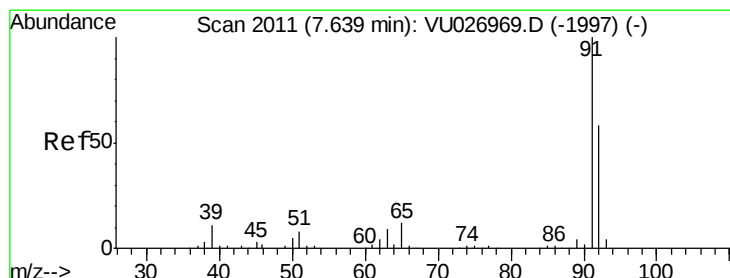
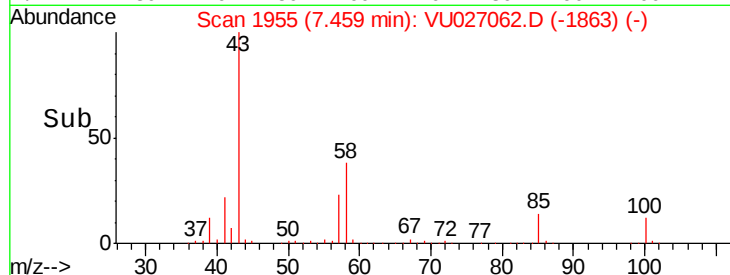
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 53.074 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU027062.D

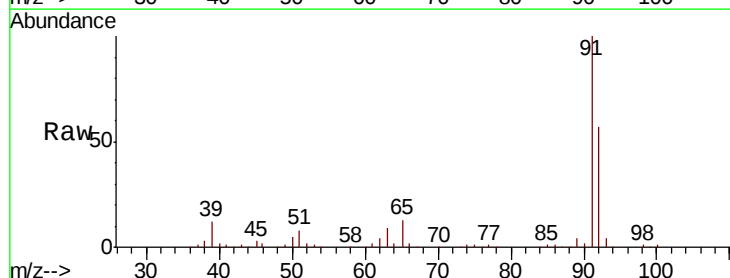
Acq: 23 Sep 2018 09:58

Tgt Ion: 92 Resp: 169567

Ion Ratio Lower Upper

92 100

91 172.4 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VU026969.D (-1997) (-)

Ion 91.00 (90.70 to 91.70): VU026969.D (-1997) (-)

7.64

200000

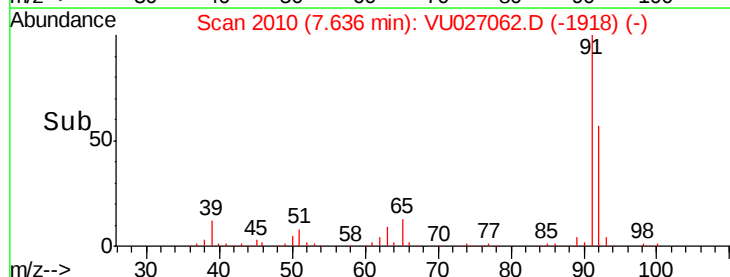
150000

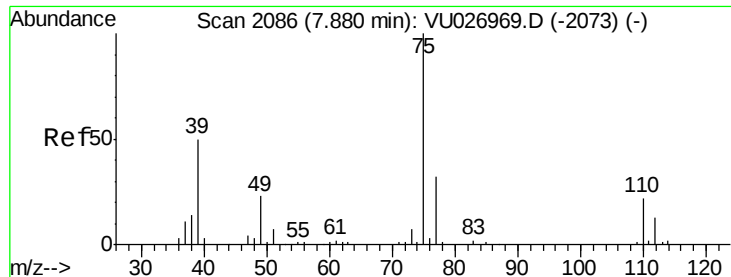
100000

50000

0

Time-->





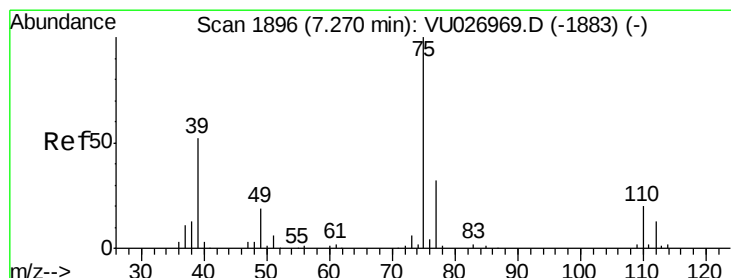
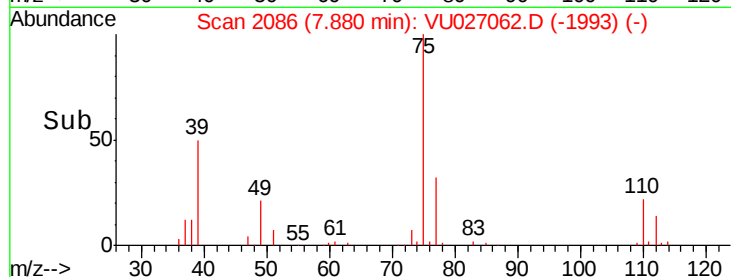
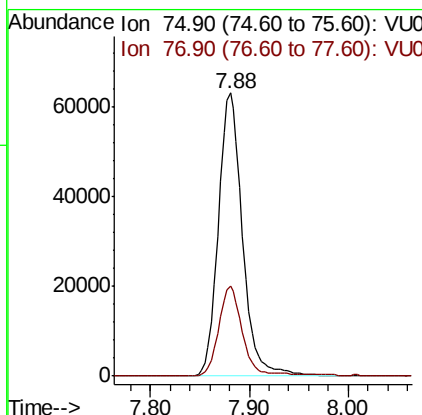
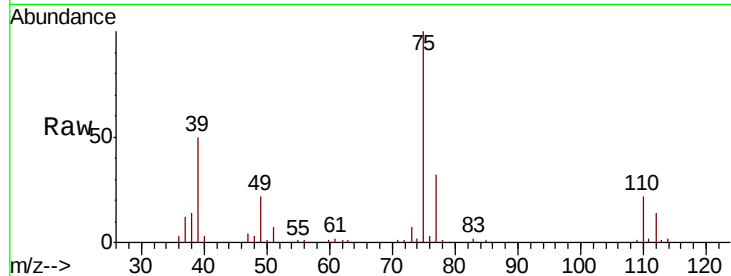
#53
t-1,3-Dichloropropene
Concen: 52.028 ug/l
RT: 7.88 min Scan# 2086
Delta R.T. 0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Instrument :
MSVOA_U
ClientSampleId :
SA-PZ123I1-20180914MSD

Tot Ion: 75 Resp: 108417
Ion Ratio Lower Upper
75 100
77 31.8 25.3 37.9

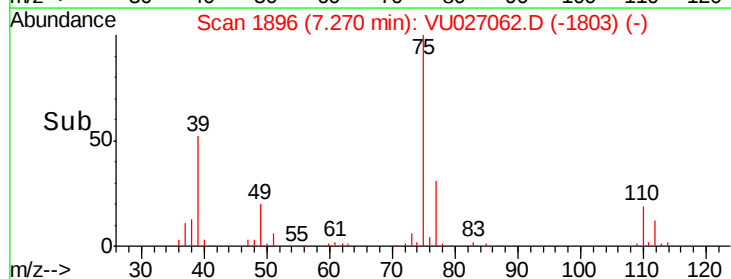
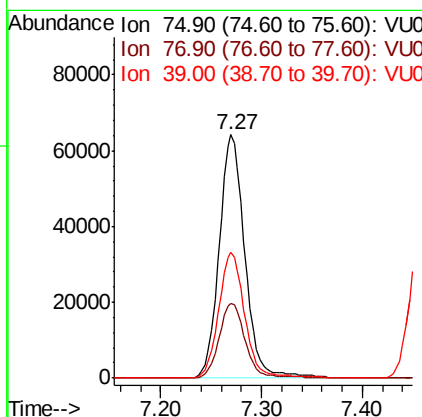
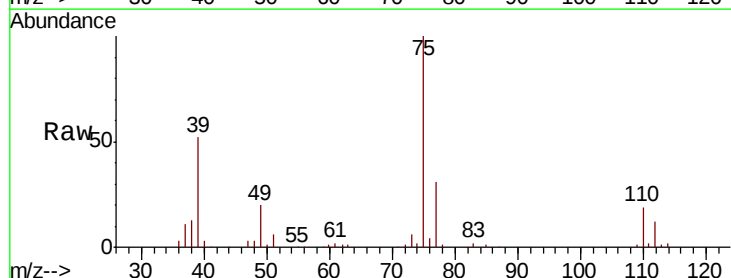
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#54
cis-1,3-Dichloropropene
Concen: 49.837 ug/l
RT: 7.27 min Scan# 1896
Delta R.T. 0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Tgt Ion: 75 Resp: 114187
Ion Ratio Lower Upper
75 100
77 30.8 25.4 38.0
39 51.7 41.6 62.4





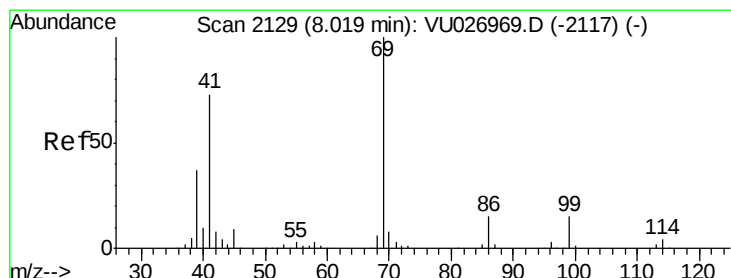
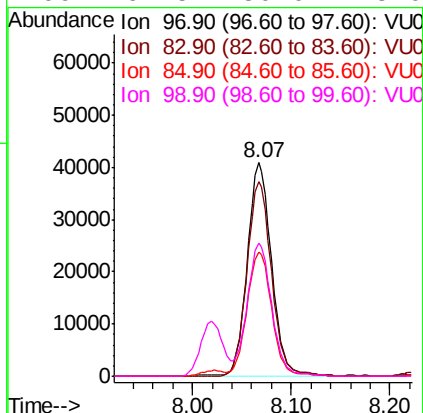
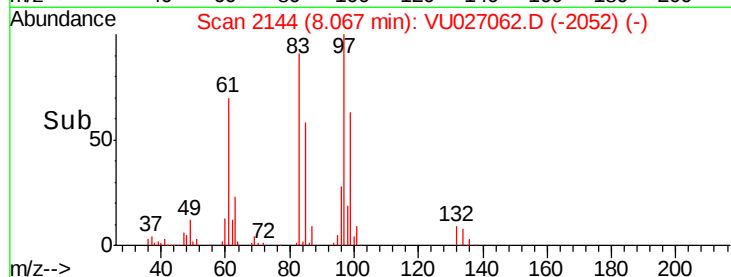
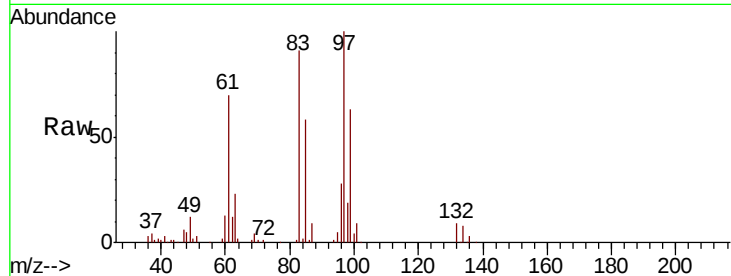
#55
 1,1,2-Trichloroethane
 Concen: 51.275 ug/l
 RT: 8.07 min Scan# 2144
 Delta R.T. -0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ123I1-20180914MSD

Tot Ion:	97	Resp:	69414
Ion	Ratio	Lower	Upper
97	100		
83	91.4	73.1	109.7
85	57.9	46.7	70.1
99	62.5	50.0	75.0

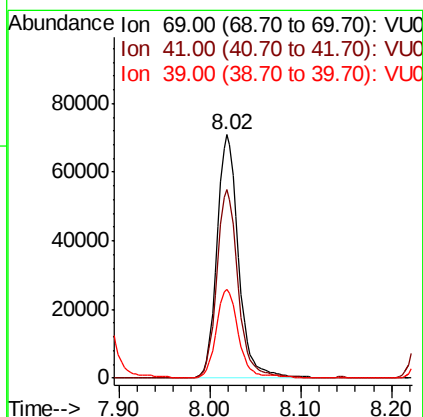
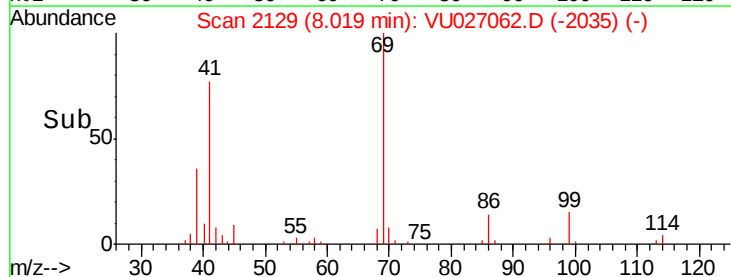
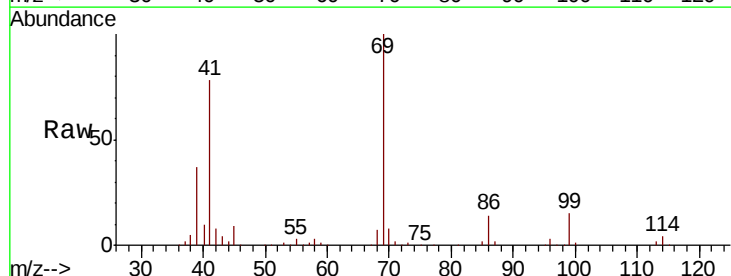
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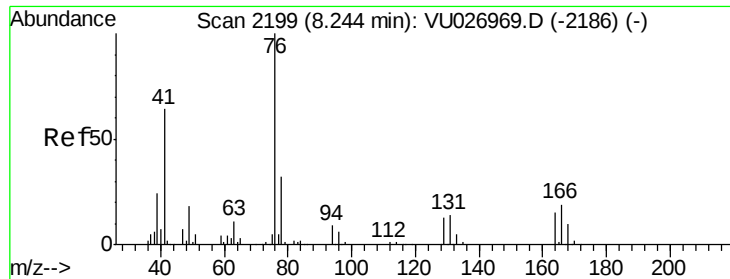
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#56
 Ethyl methacrylate
 Concen: 49.848 ug/l
 RT: 8.02 min Scan# 2129
 Delta R.T. 0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Tgt Ion:	69	Resp:	117072
Ion	Ratio	Lower	Upper
69	100		
41	77.0	59.0	88.4
39	37.3	30.2	45.4





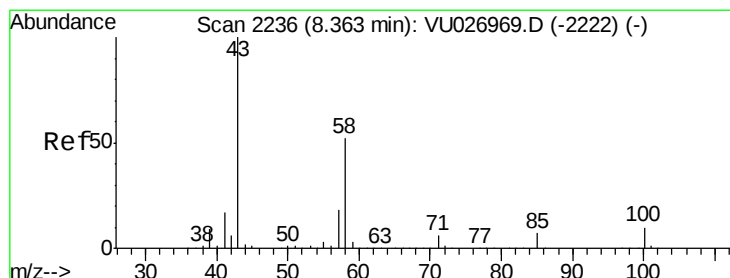
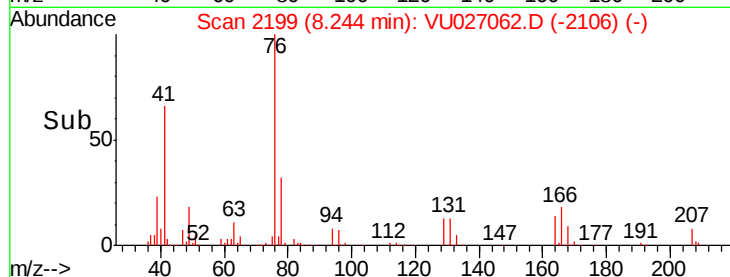
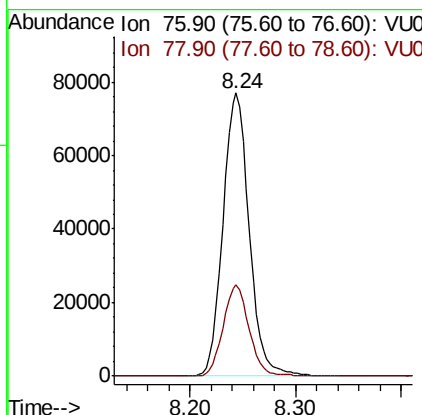
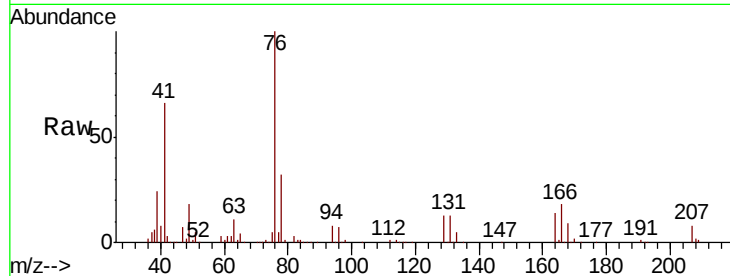
#57
 1,3-Dichloropropane
 Concen: 52.544 ug/l
 RT: 8.24 min Scan# 2199
 Delta R.T. 0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ123I1-20180914MSD

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.8	25.5	38.3

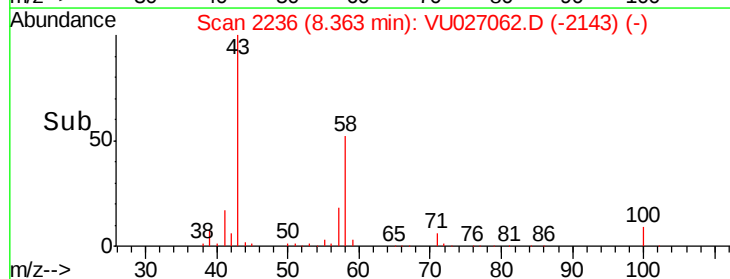
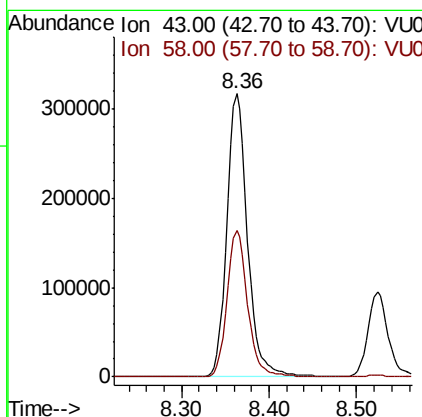
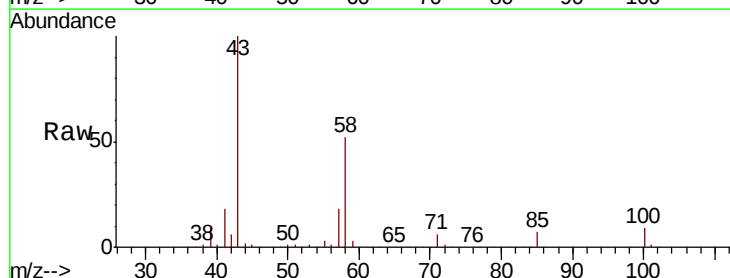
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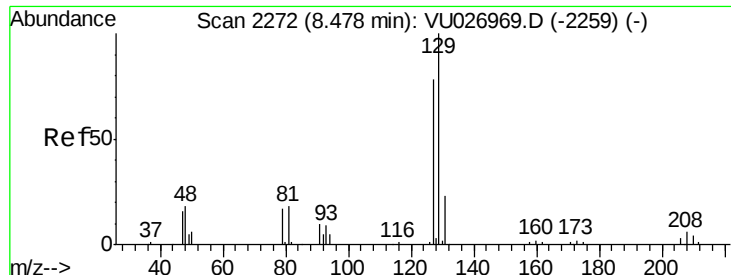
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#59
 2-Hexanone
 Concen: 273.457 ug/l
 RT: 8.36 min Scan# 2236
 Delta R.T. 0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Tgt Ion	Ratio	Lower	Upper
43	100		
58	51.7	26.1	78.2





#60

Dibromochloromethane

Concen: 52.054 ug/l

RT: 8.48 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ123I1-20180914MSD

Tot Ion:129 Resp: 69122

Ion Ratio Lower Upper

129 100

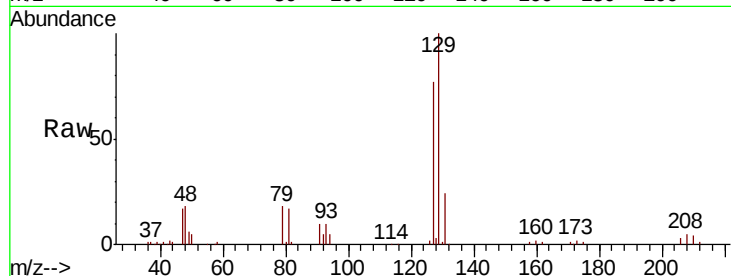
127 77.1 38.1 114.5

Manual Integrations

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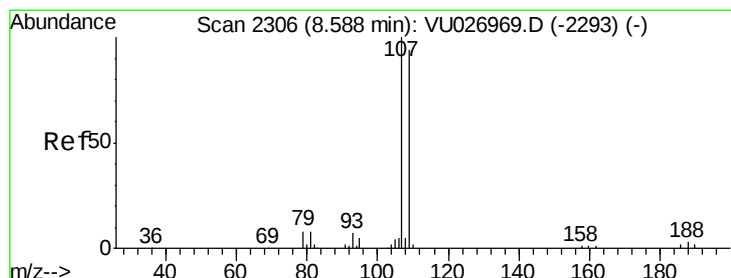
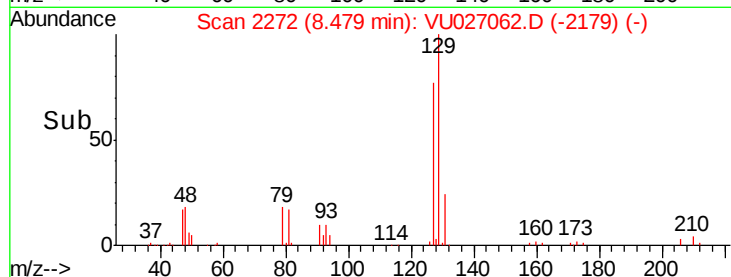
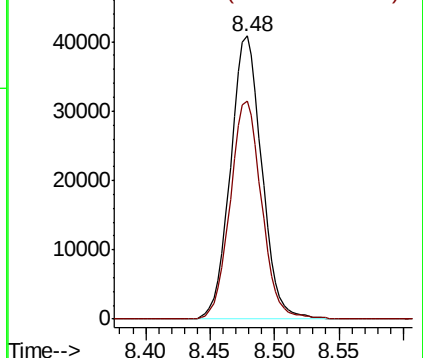
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Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 50.506 ug/l

RT: 8.59 min Scan# 2306

Delta R.T. 0.00 min

Lab File: VU027062.D

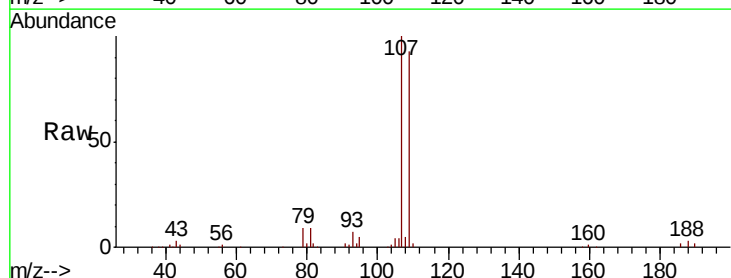
Acq: 23 Sep 2018 09:58

Tgt Ion:107 Resp: 71140

Ion Ratio Lower Upper

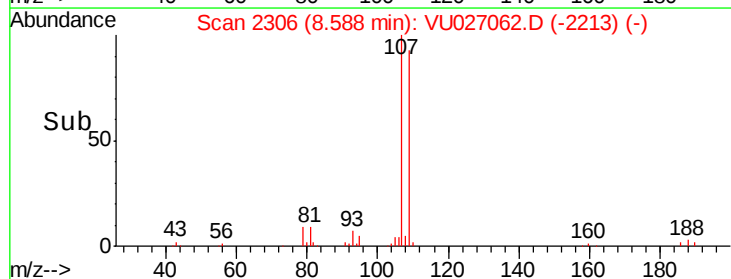
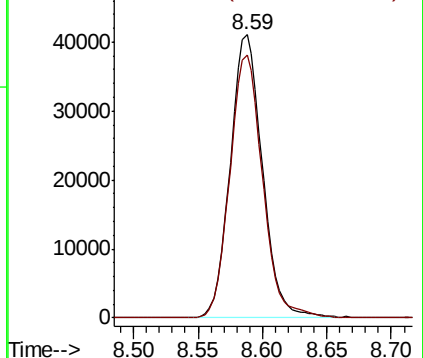
107 100

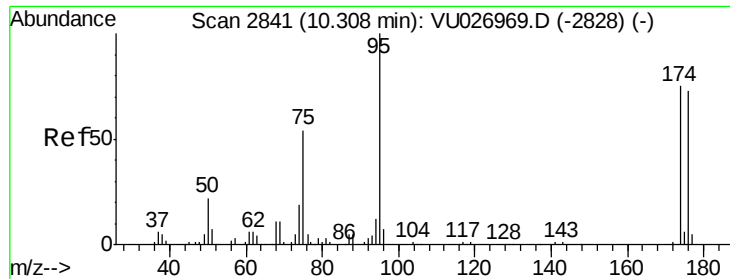
109 94.7 75.0 112.6



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V





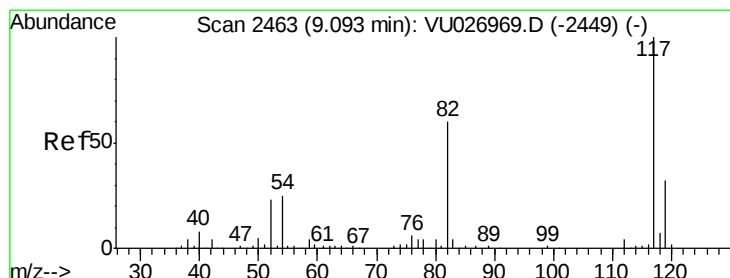
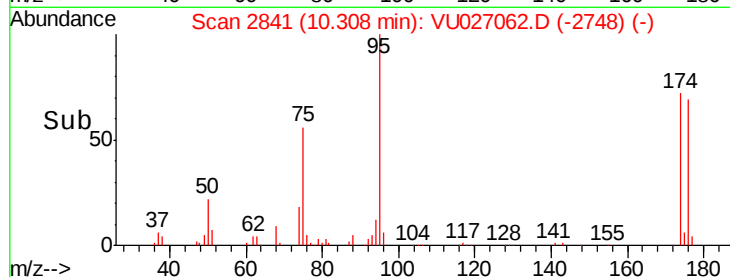
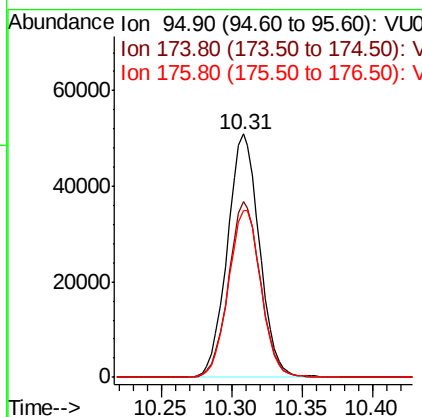
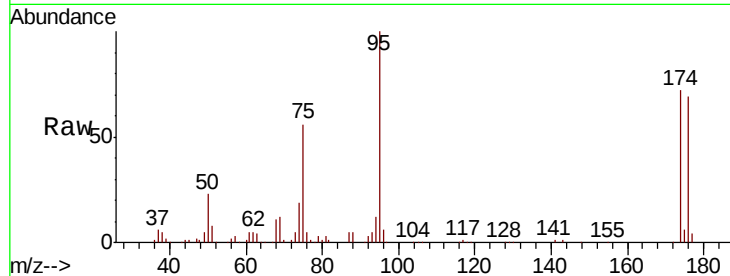
#62
 4-Bromofluorobenzene
 Concen: 51.987 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ123I1-20180914MSD

Tot Ion	Ratio	Resp	Lower	Upper
95	100	80955		
174	71.5	0.0	150.2	
176	69.8	0.0	145.2	

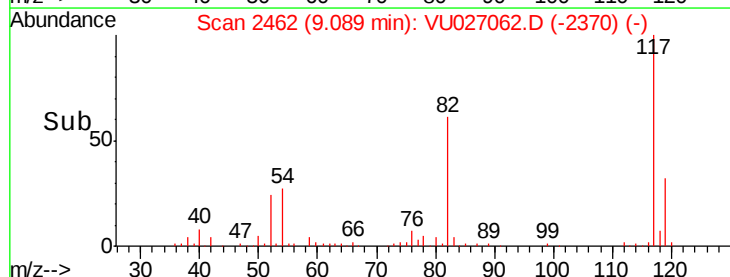
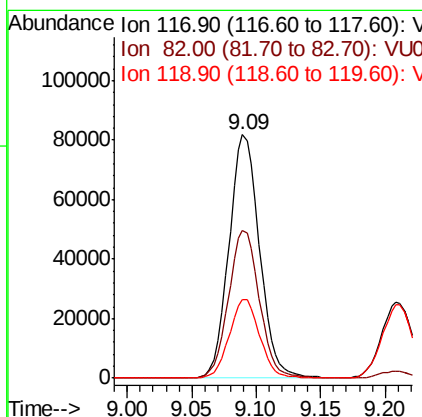
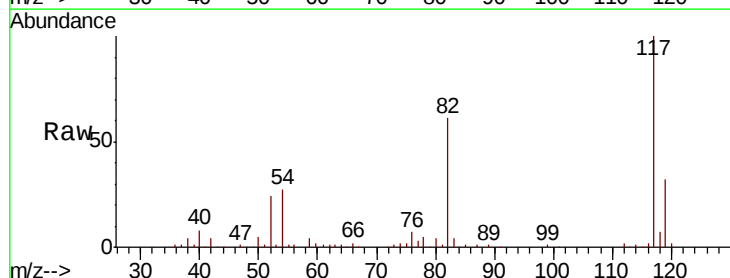
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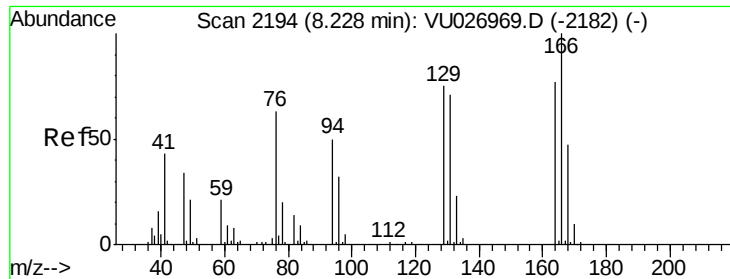
MMDadoda
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#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.09 min Scan# 2462
 Delta R.T. -0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	134789		
82	60.9	48.0	72.0	
119	32.3	25.8	38.8	





#64

Tetrachloroethene

Concen: 46.888 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ123I1-20180914MSD

Tot Ion:164 Resp: 48700

Ion Ratio Lower Upper

164 100

166 128.8 104.4 156.6

129 97.8 78.7 118.1

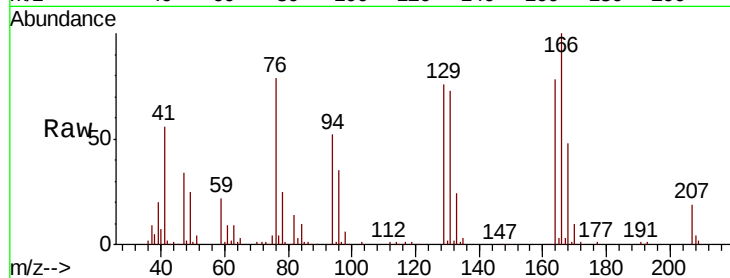
131 93.5 73.9 110.9

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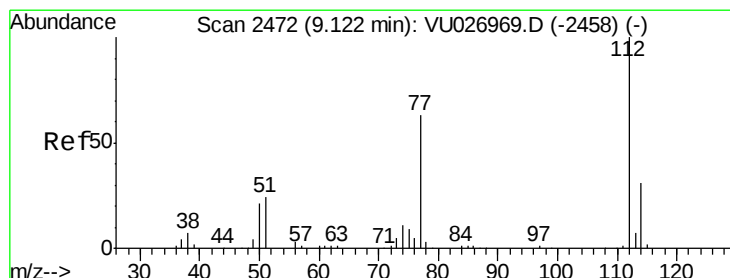
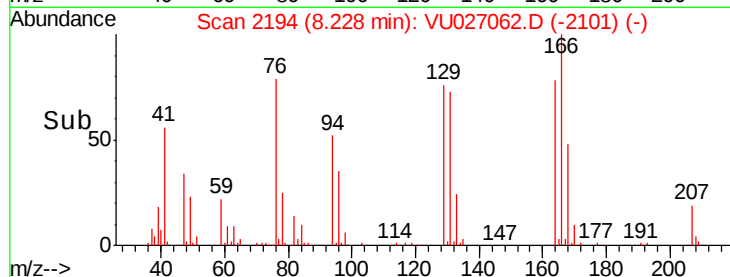
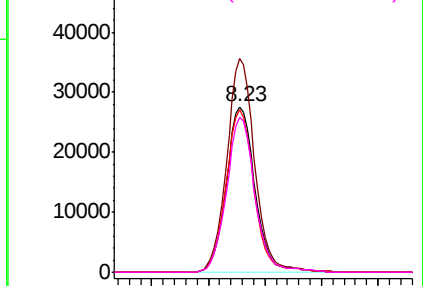


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 48.302 ug/l

RT: 9.12 min Scan# 2471

Delta R.T. -0.00 min

Lab File: VU027062.D

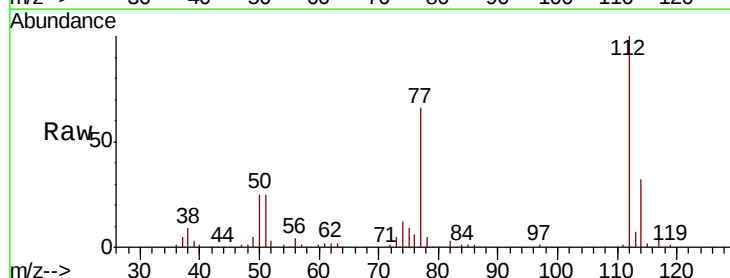
Acq: 23 Sep 2018 09:58

Tgt Ion:112 Resp: 172628

Ion Ratio Lower Upper

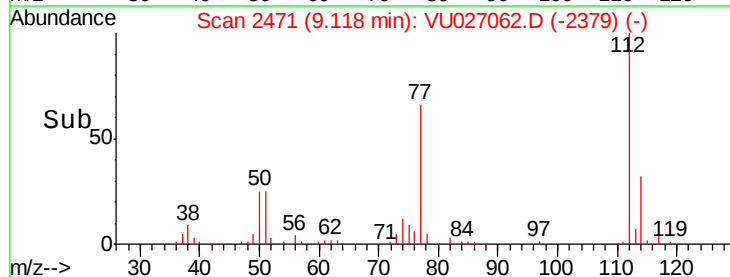
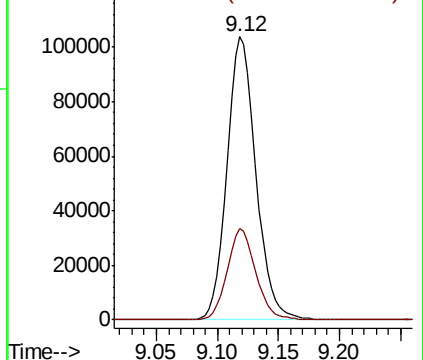
112 100

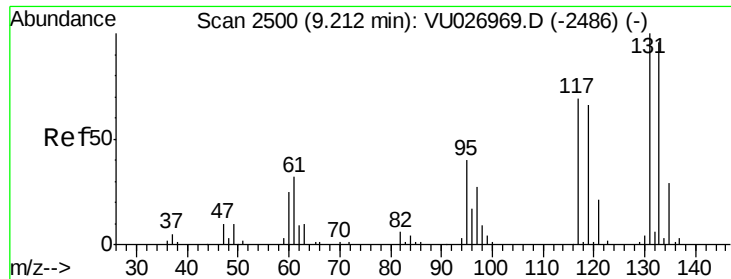
114 32.1 25.0 37.6



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





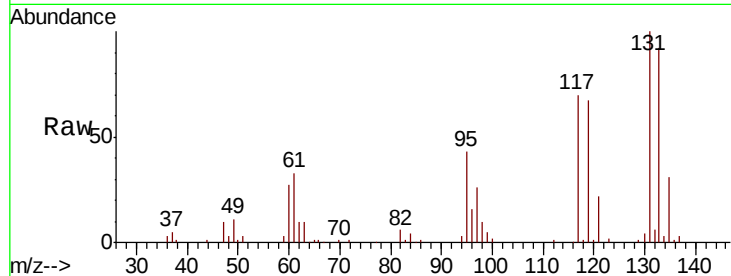
#66
 1,1,1,2-Tetrachloroethane
 Concen: 50.859 ug/l
 RT: 9.21 min Scan# 2499
 Delta R.T. -0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ123I1-20180914MSD

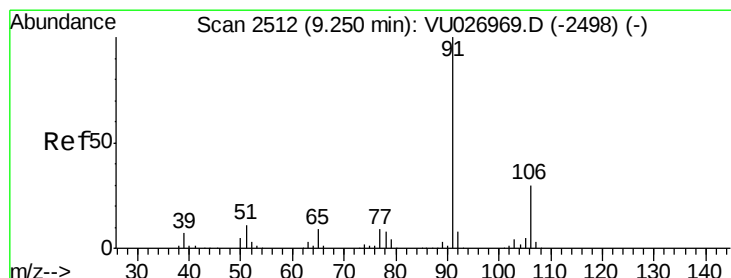
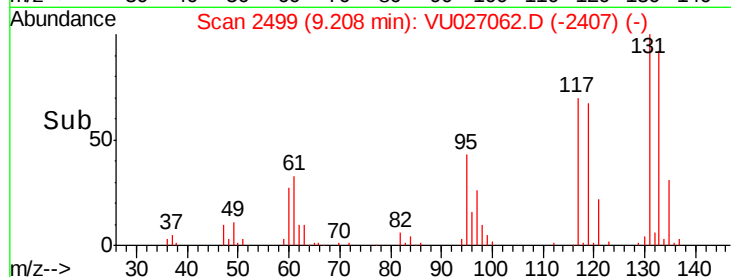
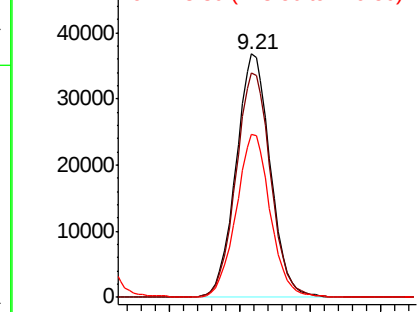
Tot Ion	Ratio	Lower	Upper
131	100		
133	93.6	48.0	144.2
119	66.6	33.4	100.1

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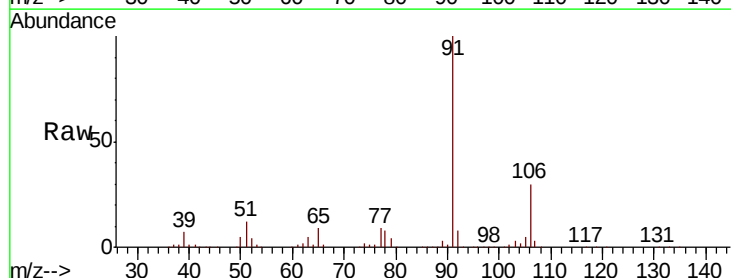


Abundance Ion 130.80 (130.50 to 131.50): V
 Ion 132.80 (132.50 to 133.50): V
 Ion 118.80 (118.50 to 119.50): V

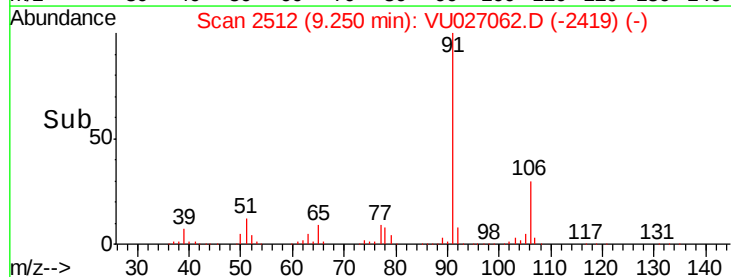
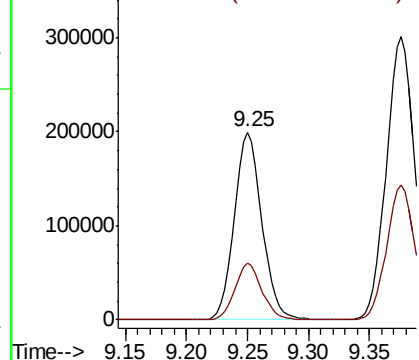


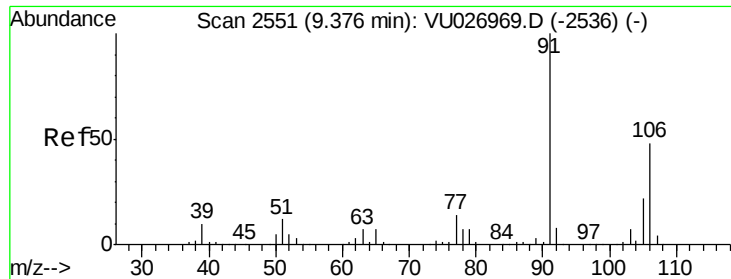
#67
 Ethyl Benzene
 Concen: 53.659 ug/l
 RT: 9.25 min Scan# 2512
 Delta R.T. 0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.0	23.8	35.8



Abundance Ion 91.00 (90.70 to 91.70): VU0
 Ion 106.00 (105.70 to 106.70): V





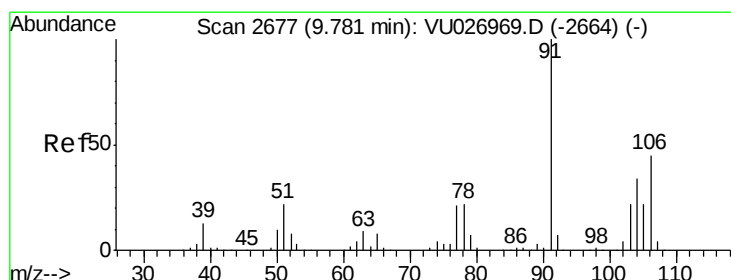
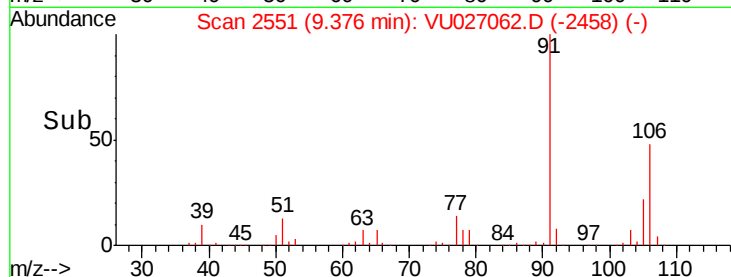
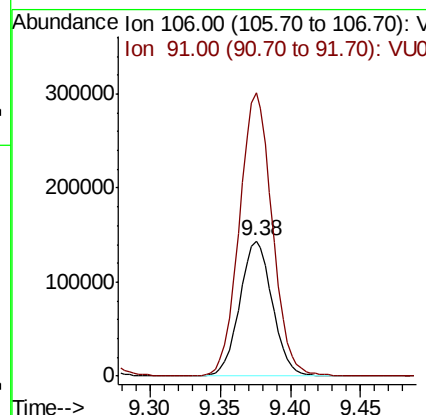
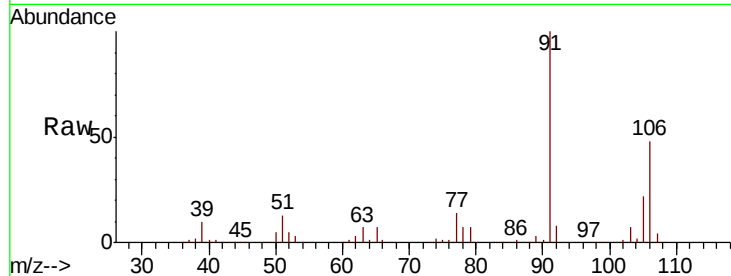
#68
m/p-Xylenes
Concen: 98.192 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Instrument :
MSVOA_U
ClientSampleId :
SA-PZ123I1-20180914MSD

Tot Ion:106 Resp: 233639
Ion Ratio Lower Upper
106 100
91 210.3 166.5 249.7

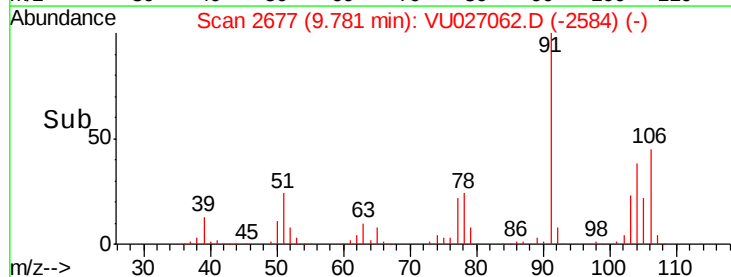
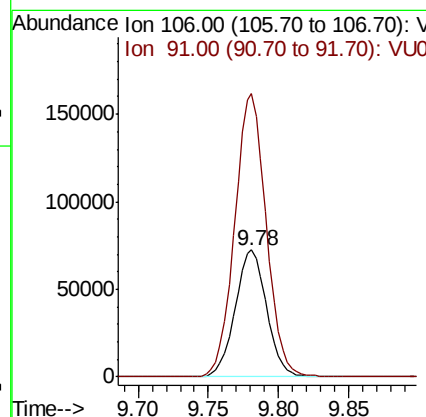
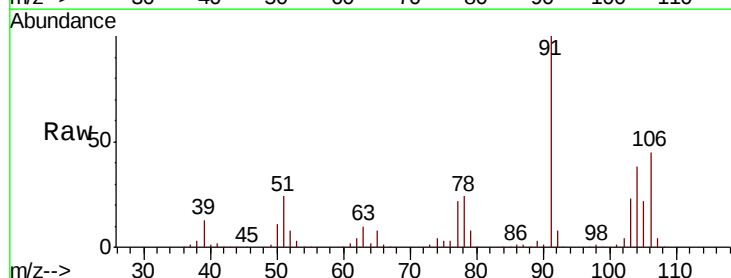
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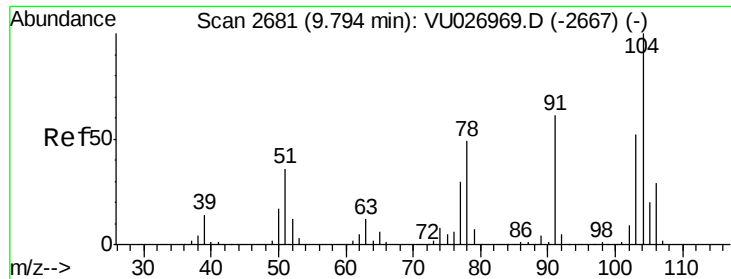
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#69
o-Xylene
Concen: 54.133 ug/l
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Tgt Ion:106 Resp: 112720
Ion Ratio Lower Upper
106 100
91 223.9 110.2 330.6





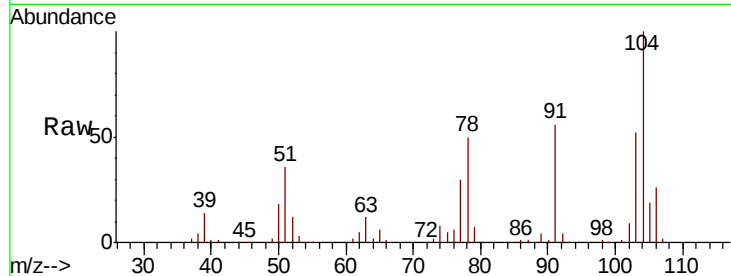
#70
Stvrene
Concen: 48.604 ug/l
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Instrument :
MSVOA_U
ClientSampleId :
SA-PZ123I1-20180914MSD

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.8	43.0	64.4
103	55.2	44.1	66.1

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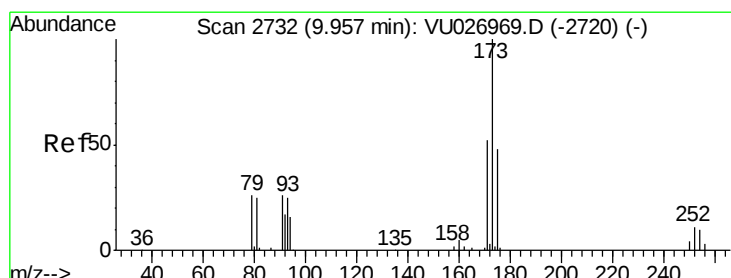
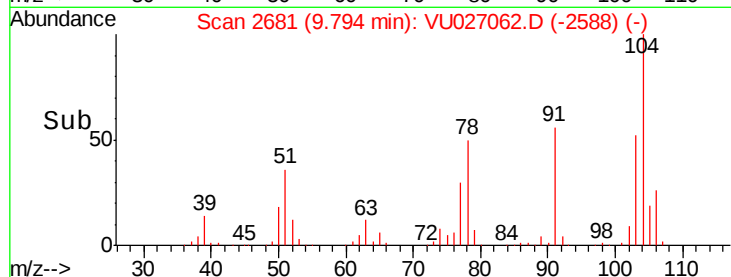
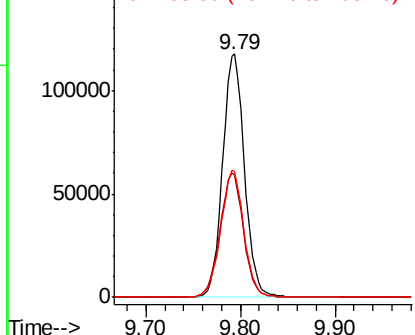


Abundance

Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#71
Bromoform
Concen: 52.661 ug/l
RT: 9.96 min Scan# 2732
Delta R.T. 0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

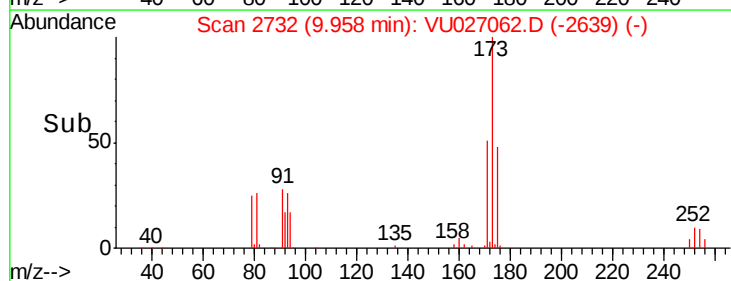
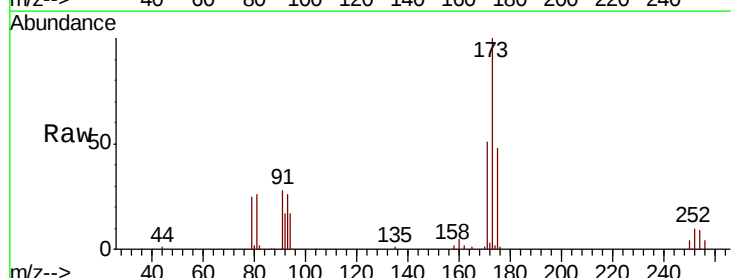
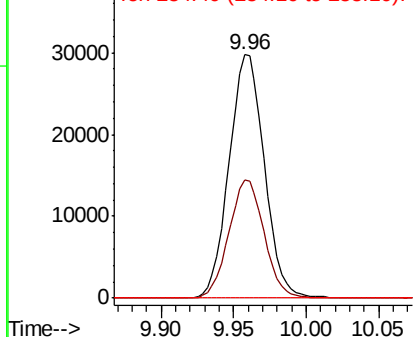
Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.4	23.9	71.8
254	0.0	0.0	0.0

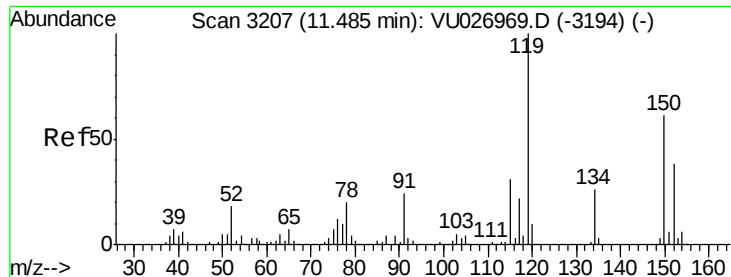
Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

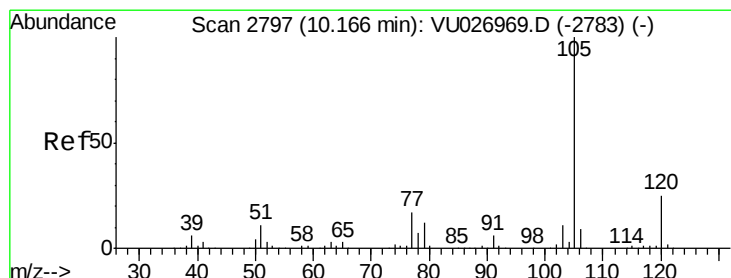
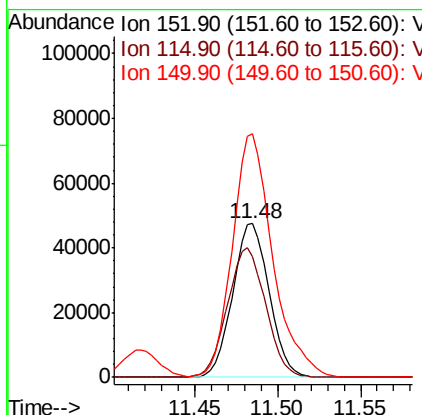
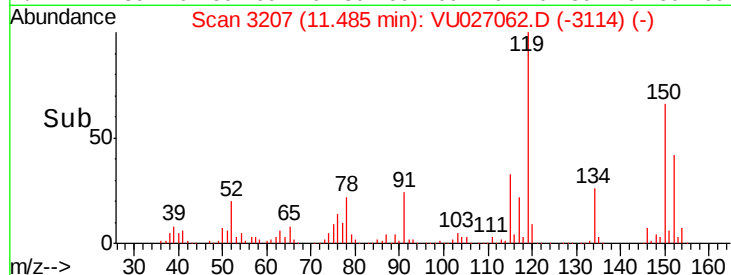
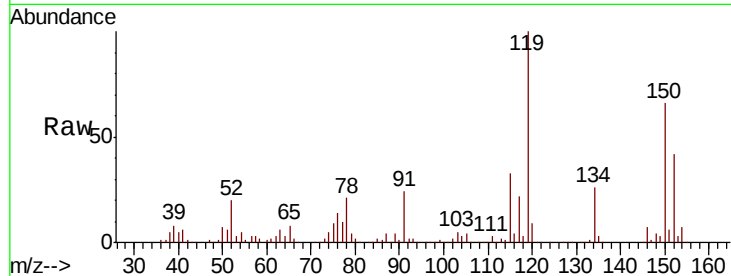
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. 0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Instrument :
MSVOA_U
ClientSampleId :
SA-PZ123I1-20180914MSD

Tot Ion	Ratio	Lower	Upper
152	100		
115	88.5	44.9	134.5
150	175.2	0.0	355.8

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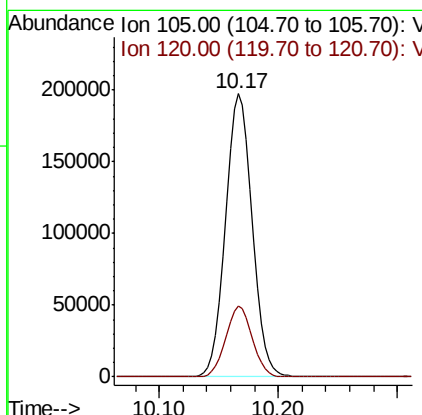
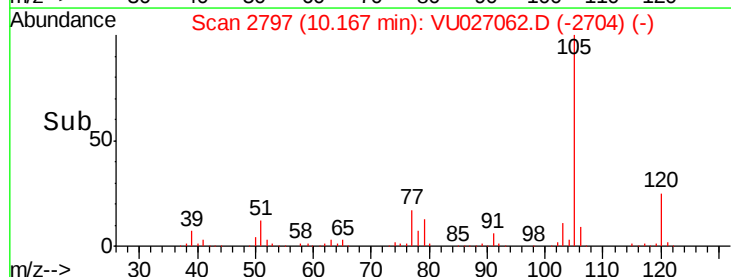
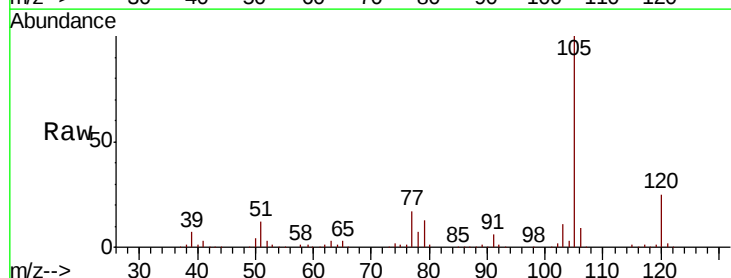
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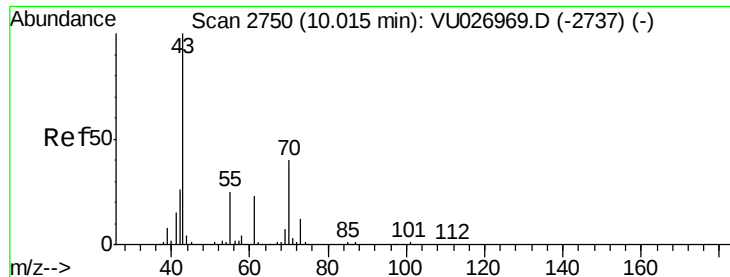


#73

Isopropylbenzene
Concen: 55.337 ug/l
RT: 10.17 min Scan# 2797
Delta R.T. 0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.0	12.8	38.4





#74

N-amvl acetate

Concen: 47.179 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. -0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Instrument :

MSVOA_U

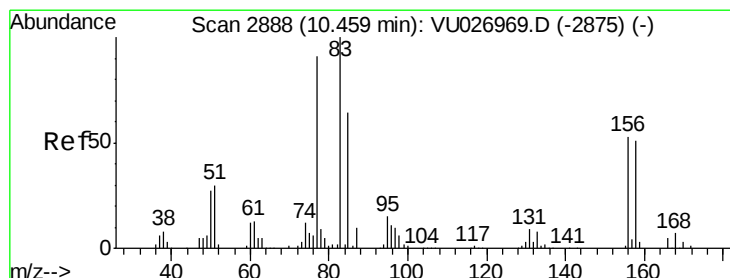
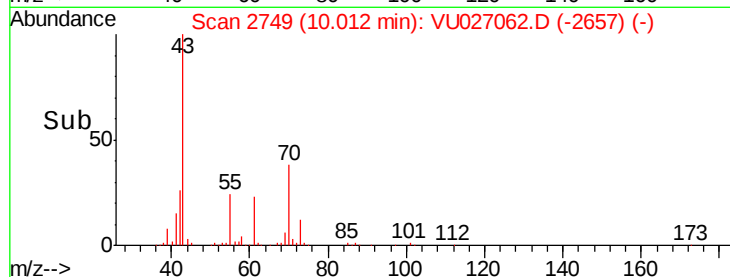
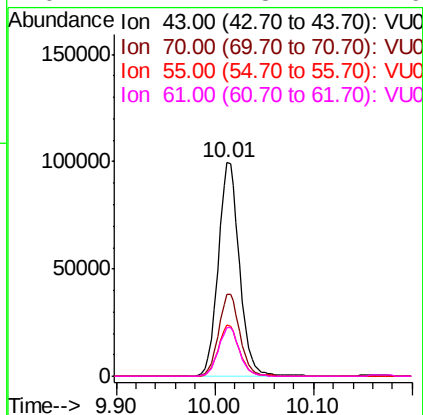
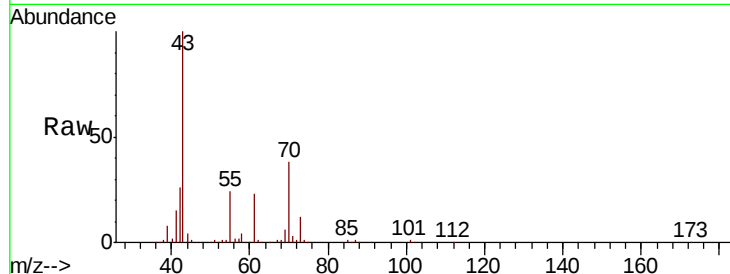
ClientSampleId :

SA-PZ123I1-20180914MSD

Tot Ion	43	Resp	150990
Ion	Ratio	Lower	Upper
43	100		
70	38.4	31.8	47.8
55	23.5	19.9	29.9
61	22.7	18.4	27.6

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#75

1,1,2,2-Tetrachloroethane

Concen: 47.916 ug/l

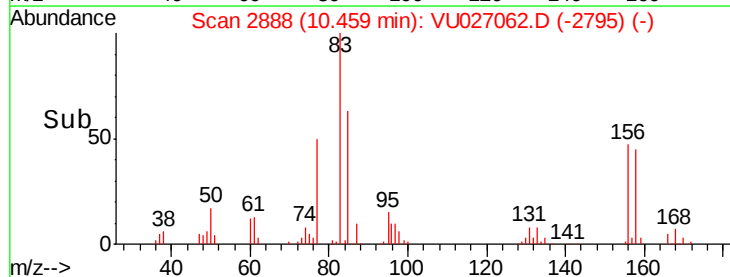
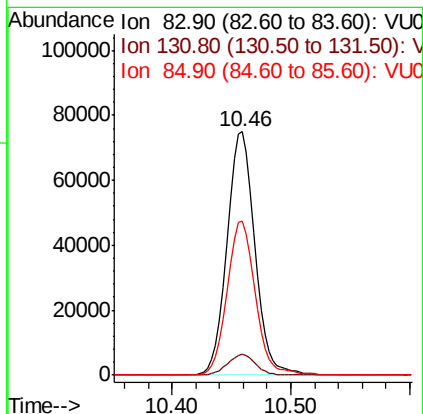
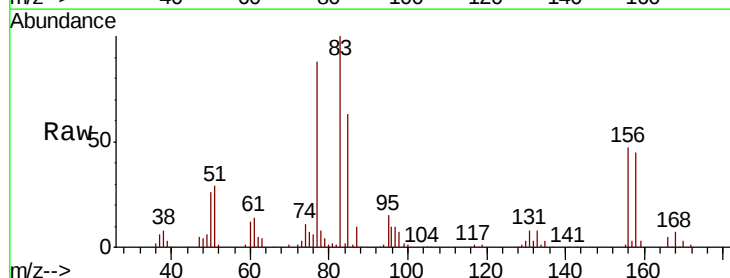
RT: 10.46 min Scan# 2888

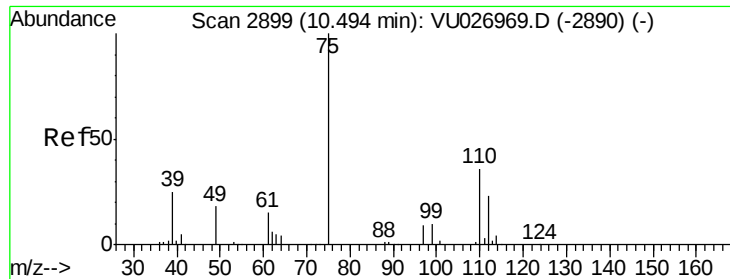
Delta R.T. 0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Tgt Ion	83	Resp	121804
Ion	Ratio	Lower	Upper
83	100		
131	8.5	4.3	12.8
85	64.2	31.9	95.7





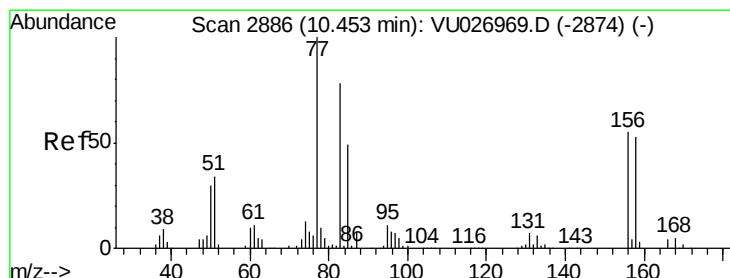
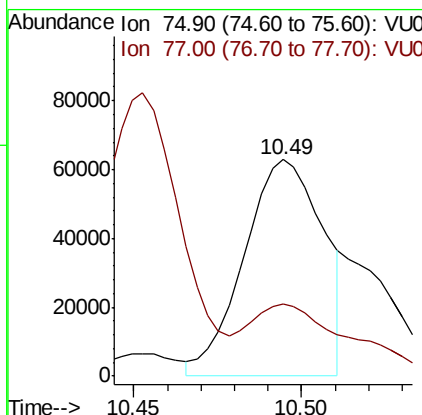
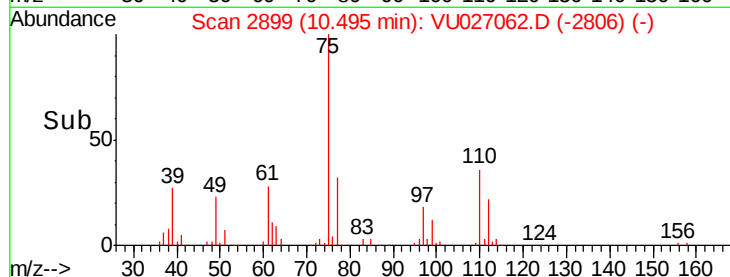
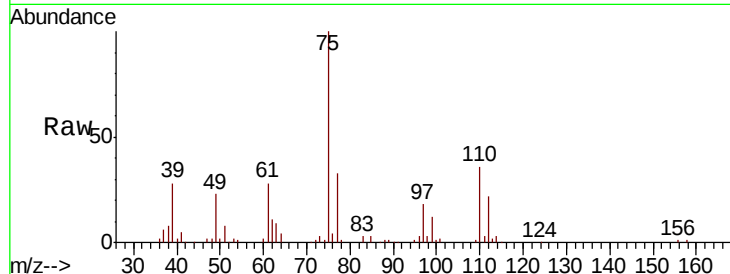
#76
 1,2,3-Trichloropropane
 Concen: 46.840 ug/l m
 RT: 10.49 min Scan# 2899
 Delta R.T. 0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ123I1-20180914MSD

Tot Ion: 75 Resp: 103426
 Ion Ratio Lower Upper
 75 100
 77 43.5 20.9 62.8

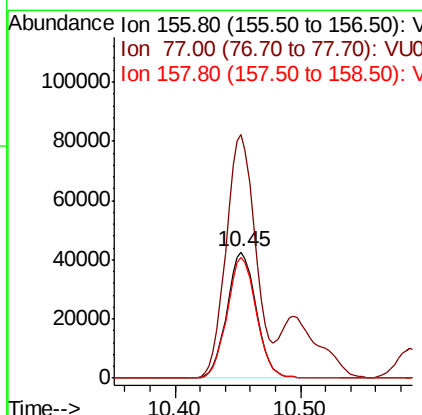
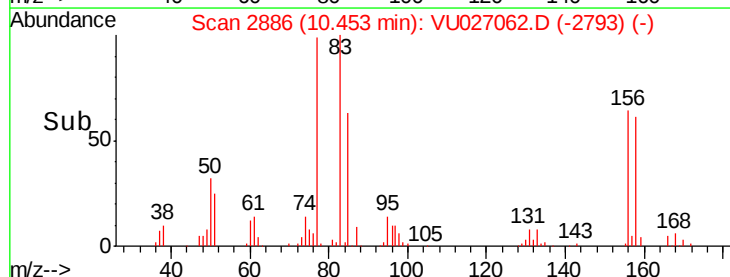
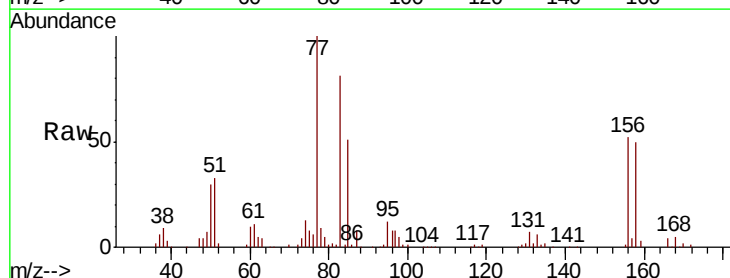
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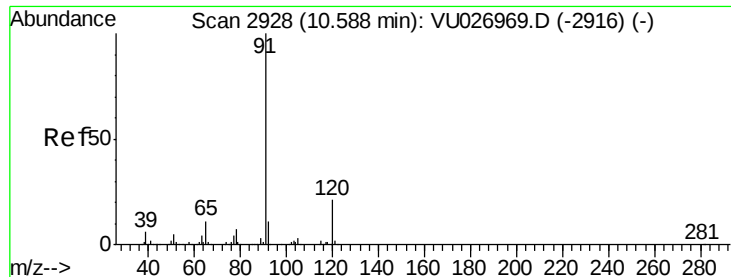
MMDadoda
 9/24/2018 4:40:34 PM



#77
 Bromobenzene
 Concen: 51.108 ug/l
 RT: 10.45 min Scan# 2886
 Delta R.T. 0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Tgt Ion: 156 Resp: 69052
 Ion Ratio Lower Upper
 156 100
 77 194.3 92.3 276.9
 158 95.4 48.1 144.3





#78

n-propylbenzene

Concen: 56.681 ug/l

RT: 10.59 min Scan# 2928

Delta R.T. 0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ123I1-20180914MSD

Tot Ion: 91 Resp: 370806

Ion Ratio Lower Upper

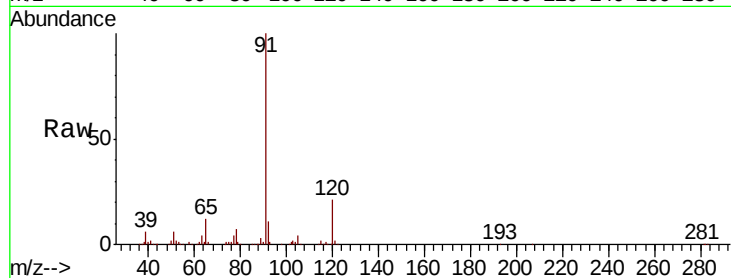
91 100

120 20.5 10.6 31.8

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Abundance Ion 91.00 (90.70 to 91.70): VU026969.D (-2916) (-)

Ion 120.00 (119.70 to 120.70): VU026969.D (-2916) (-)

10.59

250000

200000

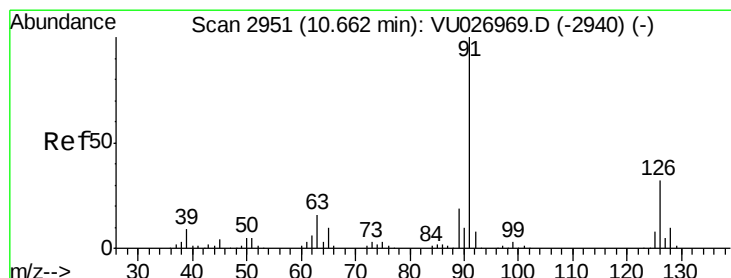
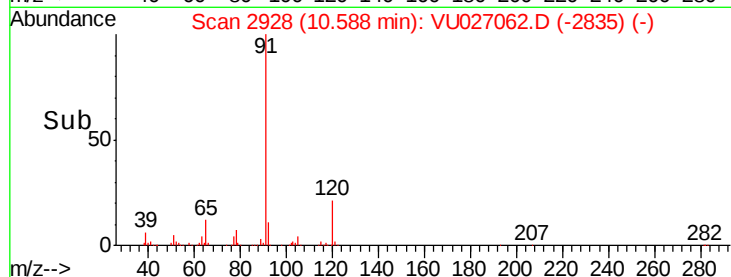
150000

100000

50000

0

Time-->



#79

2-Chlorotoluene

Concen: 53.337 ug/l

RT: 10.66 min Scan# 2951

Delta R.T. 0.00 min

Lab File: VU027062.D

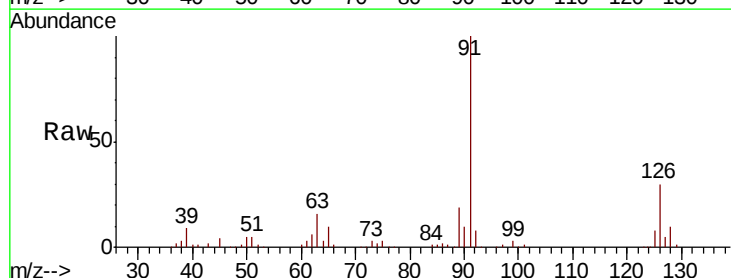
Acq: 23 Sep 2018 09:58

Tgt Ion: 91 Resp: 219174

Ion Ratio Lower Upper

91 100

126 30.3 15.8 47.3



Abundance Ion 91.00 (90.70 to 91.70): VU026969.D (-2940) (-)

Ion 125.90 (125.60 to 126.60): VU026969.D (-2940) (-)

10.66

250000

200000

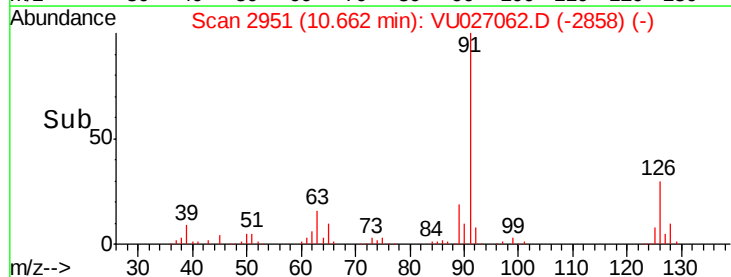
150000

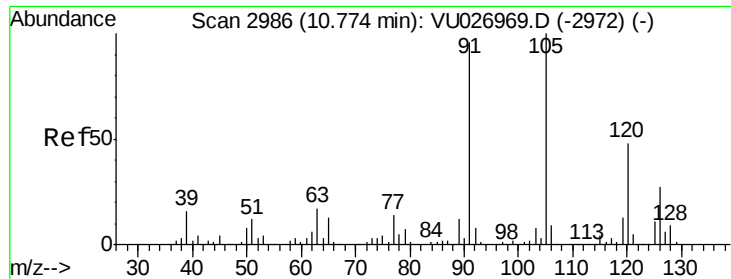
100000

50000

0

Time-->





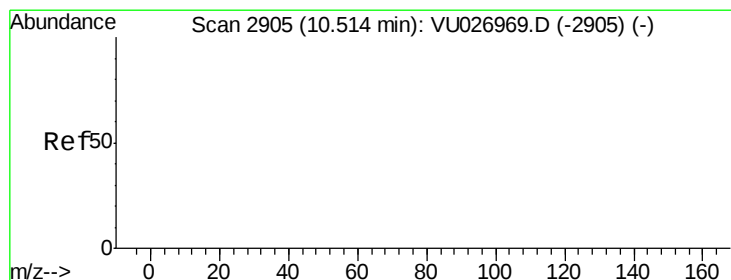
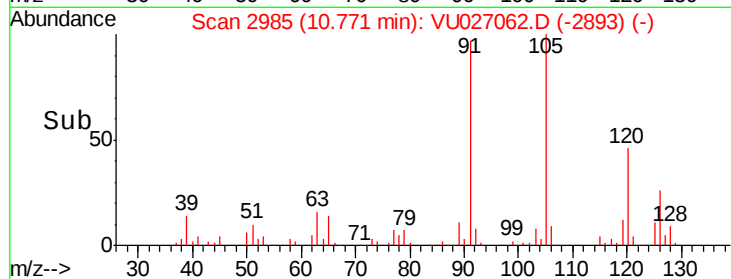
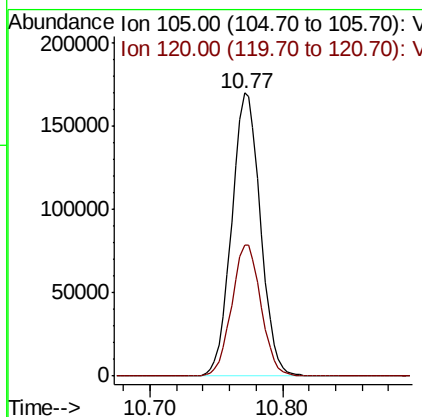
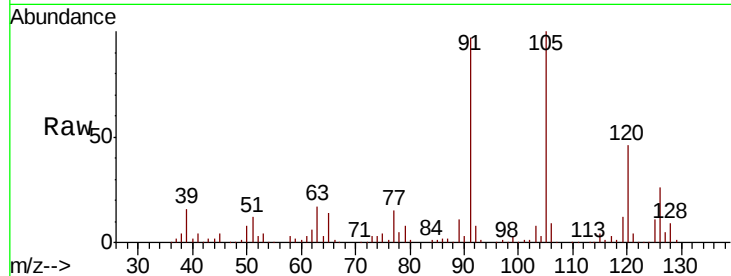
#80
 1,3,5-Trimethylbenzene
 Concen: 56.105 ug/l
 RT: 10.77 min Scan# 2985
 Delta R.T. -0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ123I1-20180914MSD

Tot Ion:105 Resp: 256064
 Ion Ratio Lower Upper
 105 100
 120 47.1 23.9 71.7

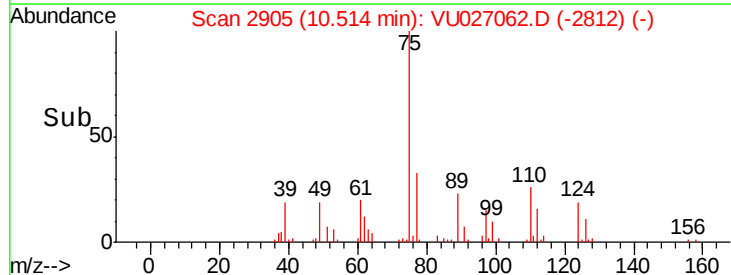
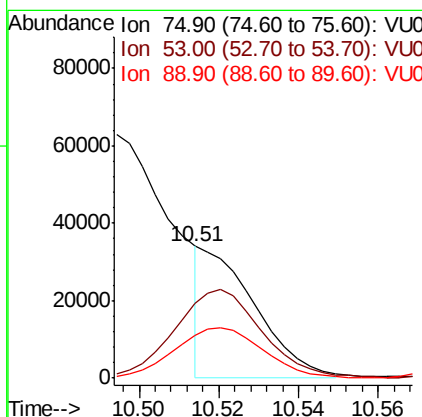
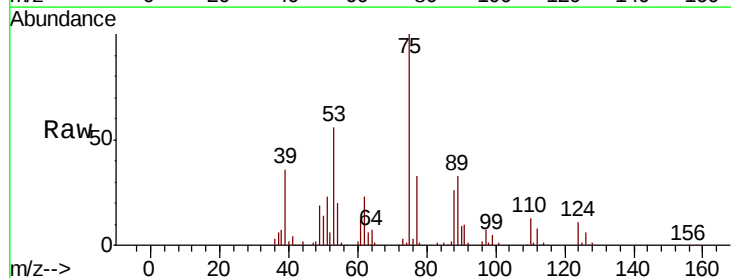
Manual Integrations
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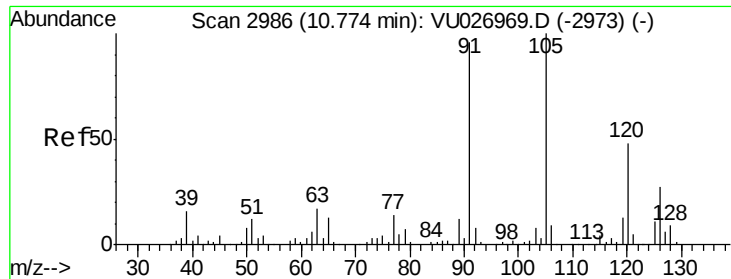
MMDadoda
 9/24/2018 4:40:34 PM



#81
 trans-1,4-Dichloro-2-butene
 Concen: 45.217 ug/l m
 RT: 10.51 min Scan# 2905
 Delta R.T. 0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Tgt Ion: 75 Resp: 31199
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0





#82

4-Chlorotoluene

Concen: 54.810 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ123I1-20180914MSD

Tot Ion: 91 Resp: 252542

Ion Ratio Lower Upper

91 100

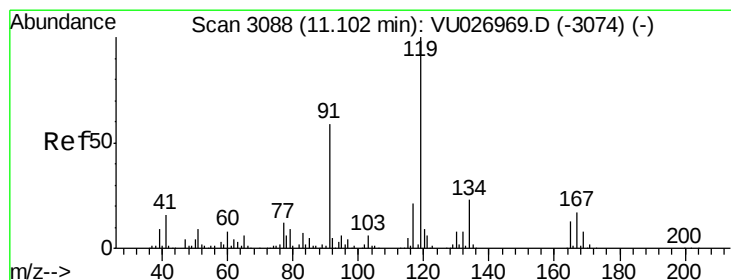
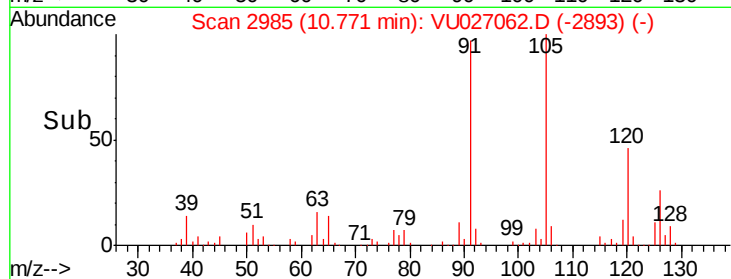
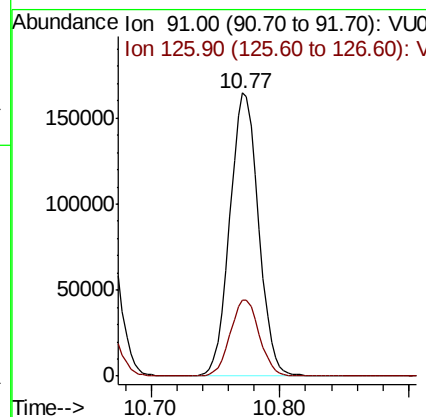
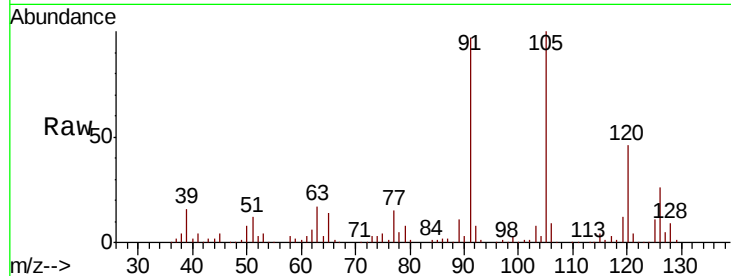
126 27.4 14.1 42.2

Manual Integrations

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#83

tert-Butylbenzene

Concen: 53.636 ug/l

RT: 11.10 min Scan# 3088

Delta R.T. 0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

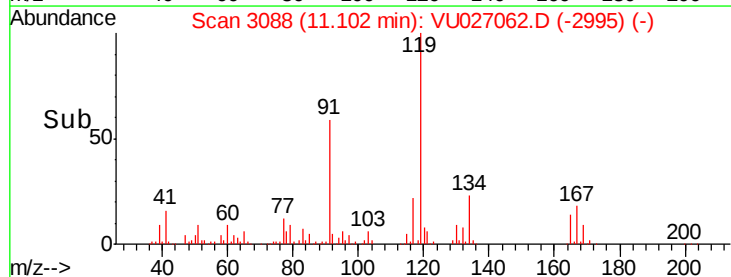
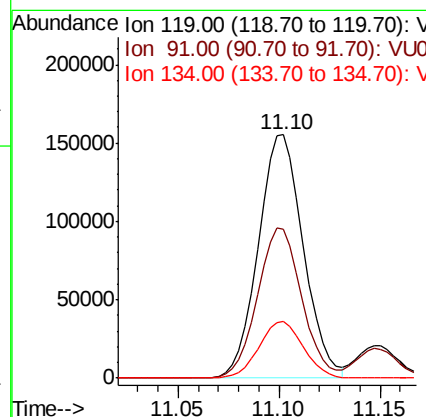
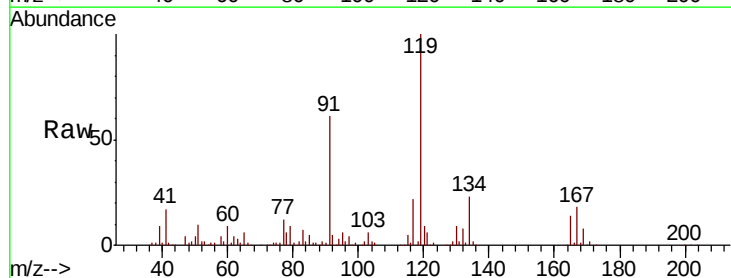
Tgt Ion: 119 Resp: 242016

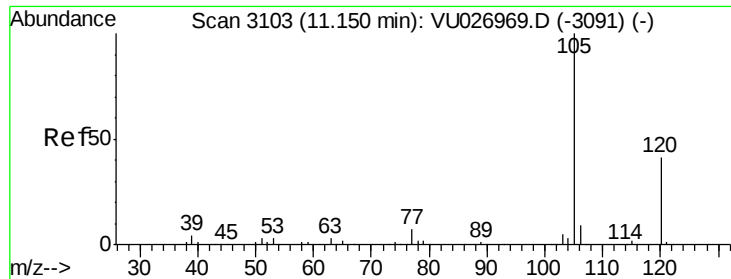
Ion Ratio Lower Upper

119 100

91 60.4 29.8 89.4

134 22.9 11.5 34.4





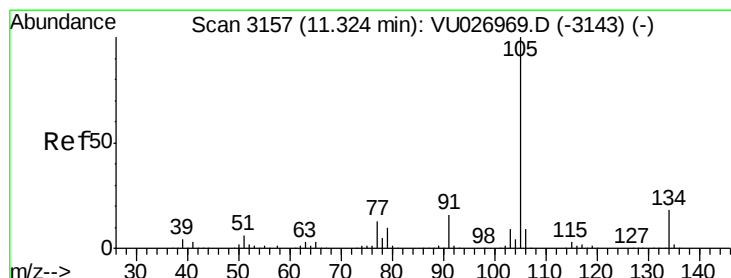
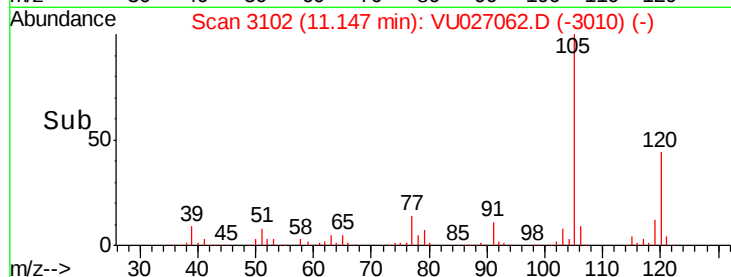
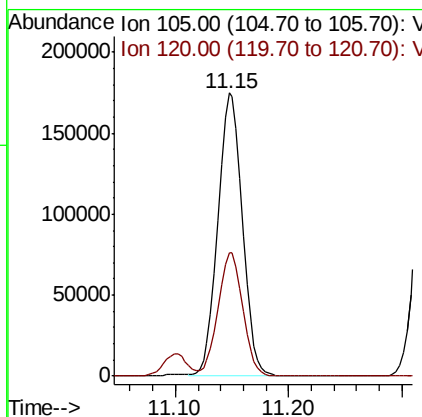
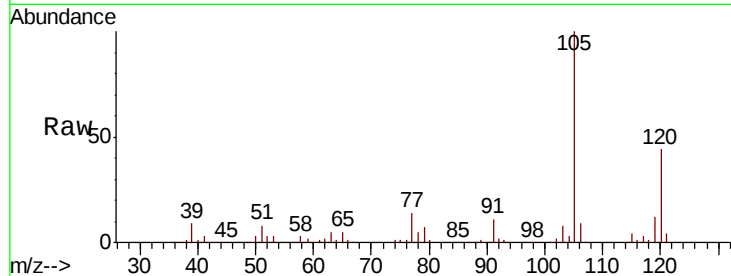
#84
 1,2,4-Trimethylbenzene
 Concen: 56.816 ug/l
 RT: 11.15 min Scan# 3102
 Delta R.T. -0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ123I1-20180914MSD

Tot Ion	Ion	Ratio	Lower	Upper
263893	105	100		
	120	44.2	22.4	67.2

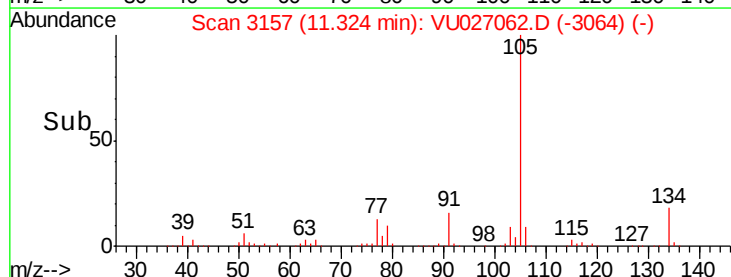
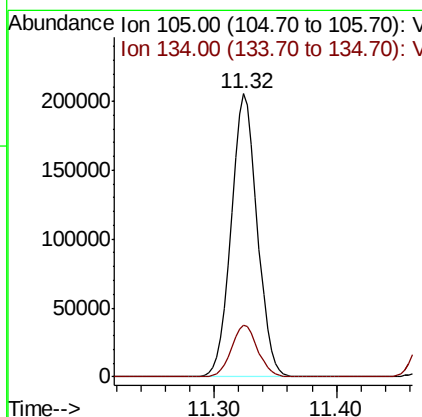
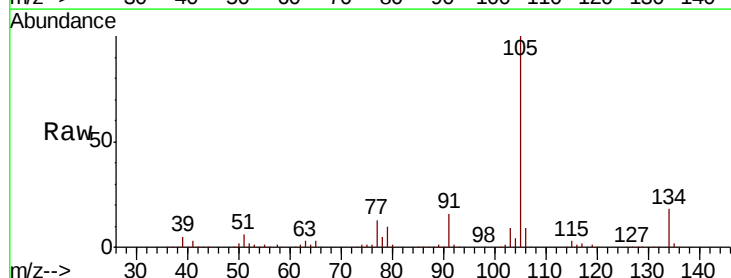
Manual Integrations
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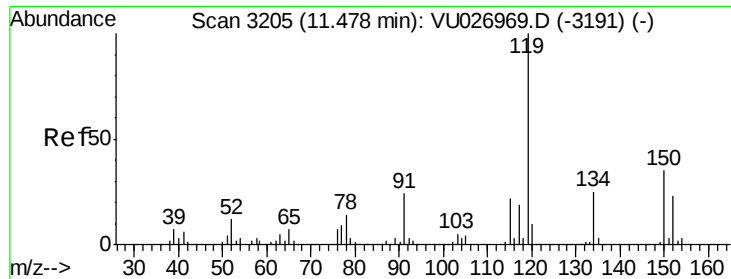
MMDadoda
 9/24/2018 4:40:34 PM



#85
 sec-Butylbenzene
 Concen: 55.440 ug/l
 RT: 11.32 min Scan# 3157
 Delta R.T. 0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Tgt Ion	Ion	Ratio	Lower	Upper
305367	105	100		
	134	18.4	9.4	28.2





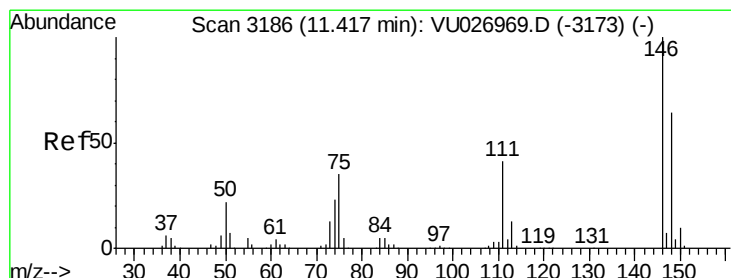
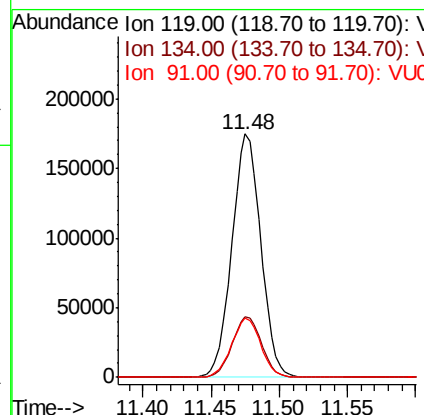
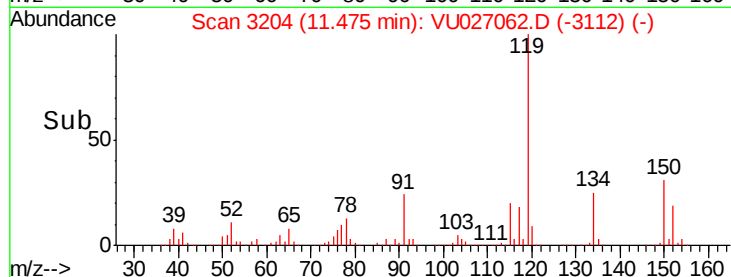
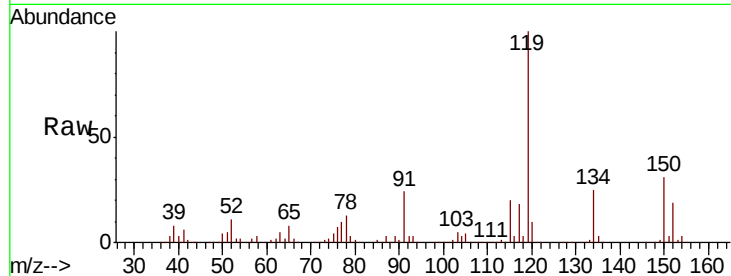
#86
p-Isopropyltoluene
Concen: 49.829 ug/l
RT: 11.48 min Scan# 3204
Delta R.T. -0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Instrument :
MSVOA_U
ClientSampleId :
SA-PZ123I1-20180914MSD

Tot Ion	Ratio	Resp	Lower	Upper
119	100	257521		
134	25.3	12.8	38.3	
91	24.5	12.3	36.8	

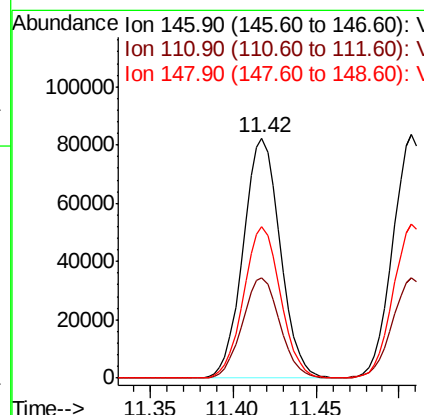
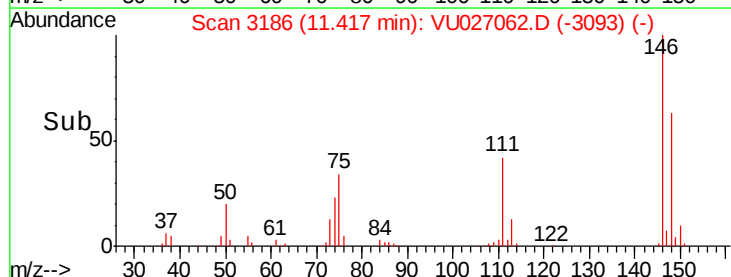
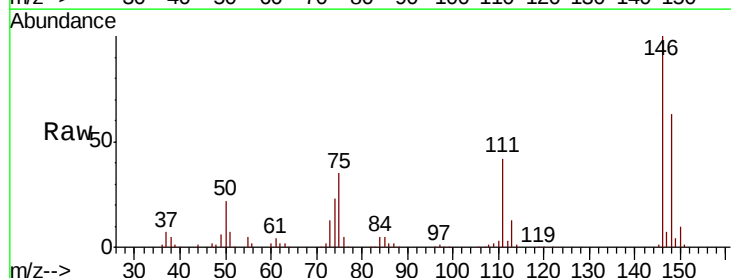
Manual Integrations
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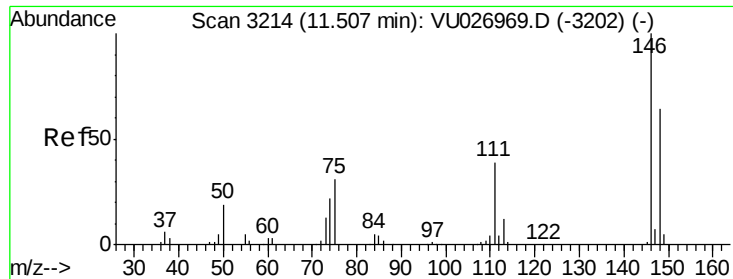
MMDadoda
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#87
1,3-Dichlorobenzene
Concen: 50.863 ug/l
RT: 11.42 min Scan# 3186
Delta R.T. 0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	127880		
111	42.1	20.8	62.2	
148	62.8	32.0	96.2	





#88

1,4-Dichlorobenzene

Concen: 47.446 ug/l

RT: 11.51 min Scan# 3214

Delta R.T. 0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Instrument :

MSVOA_U

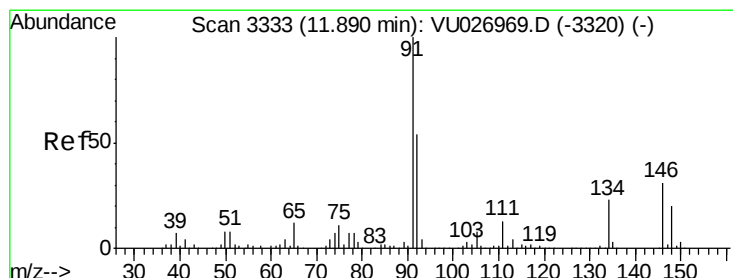
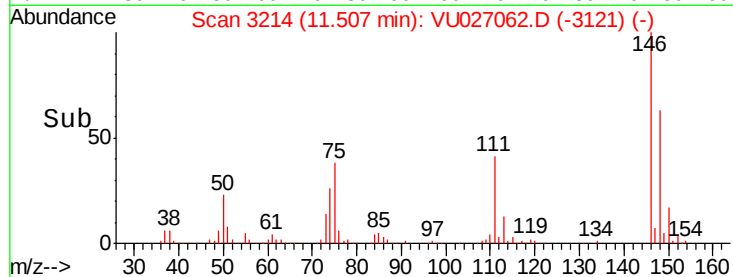
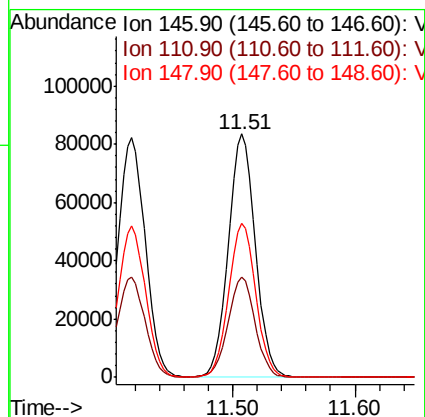
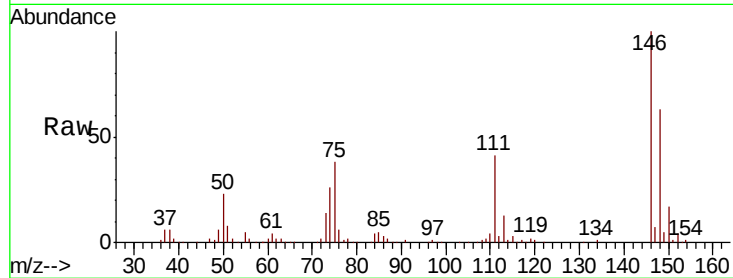
ClientSampleId :

SA-PZ123I1-20180914MSD

Tot Ion:	146	Resp:	130013
Ion Ratio		Lower	Upper
146	100		
111	41.4	20.3	60.9
148	63.3	31.9	95.9

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#89

n-Butylbenzene

Concen: 47.338 ug/l

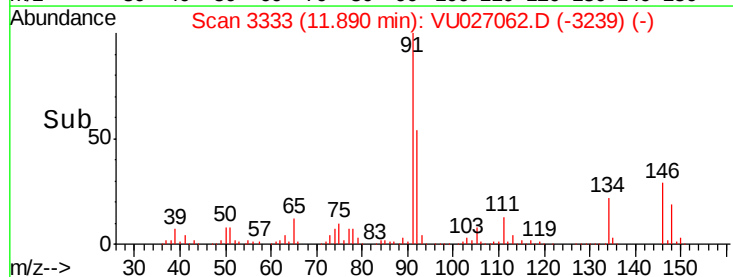
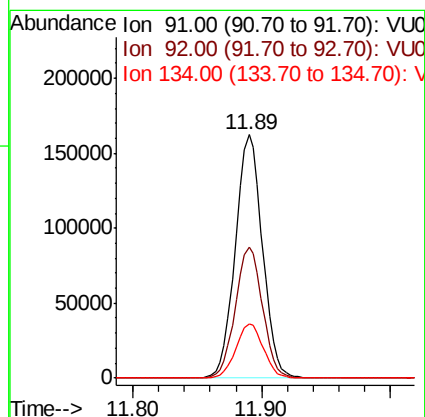
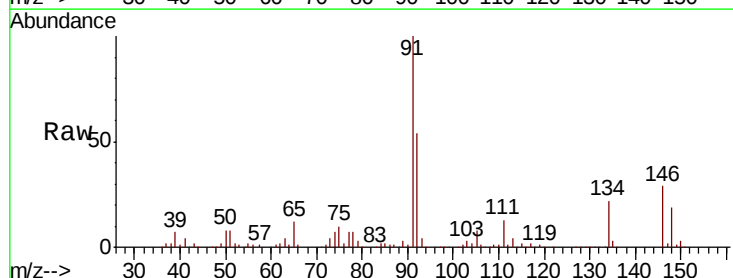
RT: 11.89 min Scan# 3333

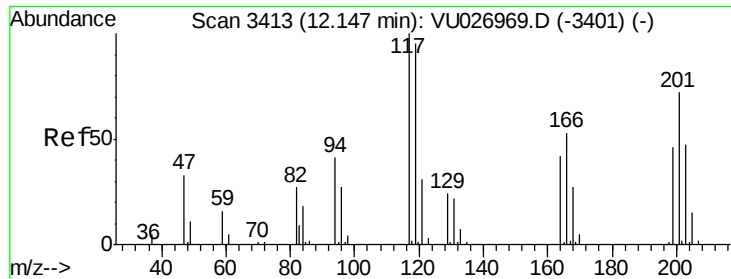
Delta R.T. 0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Tgt Ion:	91	Resp:	236501
Ion Ratio		Lower	Upper
91	100		
92	53.9	27.1	81.2
134	22.6	11.7	35.0





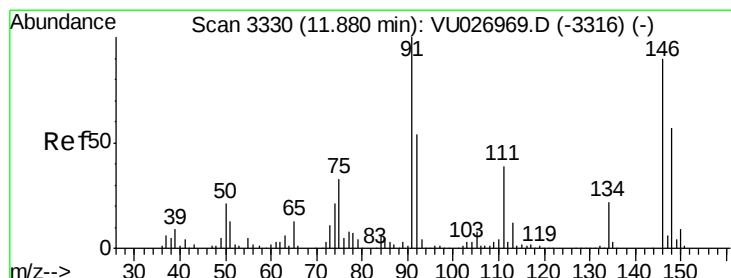
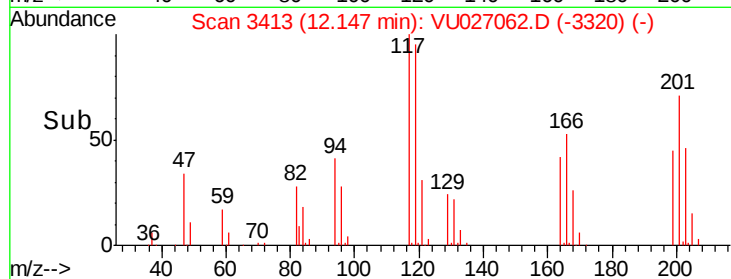
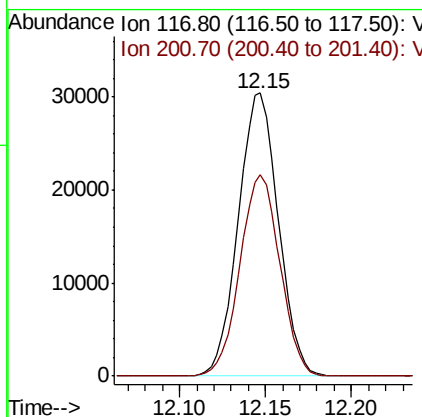
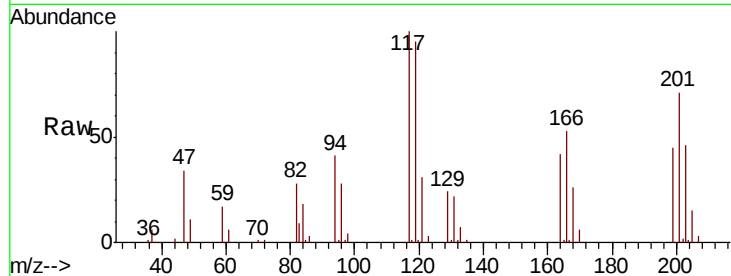
#90
Hexachloroethane
Concen: 49.225 ug/l
RT: 12.15 min Scan# 3413
Delta R.T. 0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Instrument :
MSVOA_U
ClientSampleId :
SA-PZ123I1-20180914MSD

Tot Ion:117 Resp: 49305
Ion Ratio Lower Upper
117 100
201 70.9 36.8 110.3

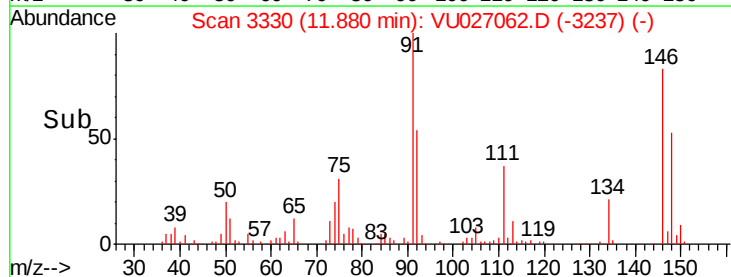
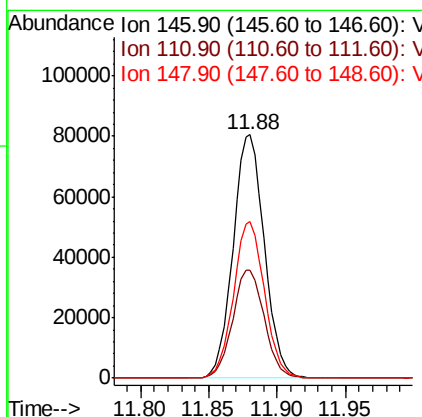
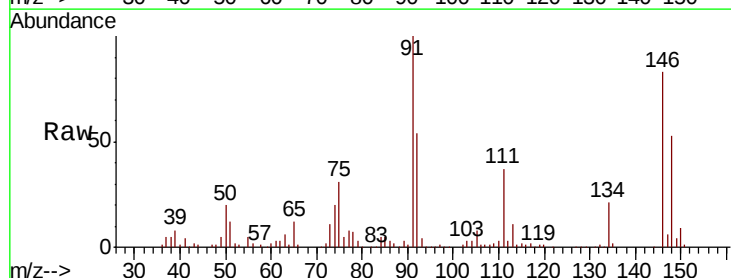
Manual Integrations
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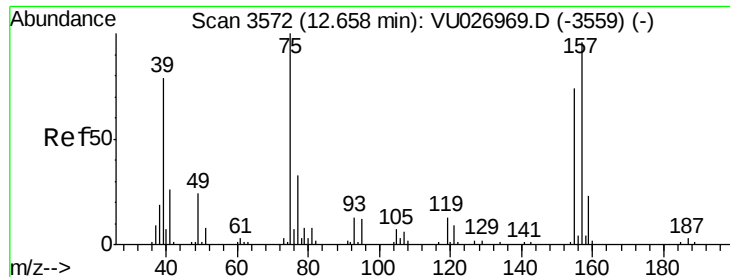
MMDadoda
9/24/2018 4:40:34 PM



#91
1,2-Dichlorobenzene
Concen: 47.978 ug/l
RT: 11.88 min Scan# 3330
Delta R.T. 0.00 min
Lab File: VU027062.D
Acq: 23 Sep 2018 09:58

Tgt Ion:146 Resp: 128136
Ion Ratio Lower Upper
146 100
111 44.7 21.8 65.3
148 63.5 31.9 95.7





#92

1,2-Dibromo-3-Chloropropane

Concen: 51.660 ug/l

RT: 12.66 min Scan# 3571

Delta R.T. -0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Instrument :

MSVOA_U

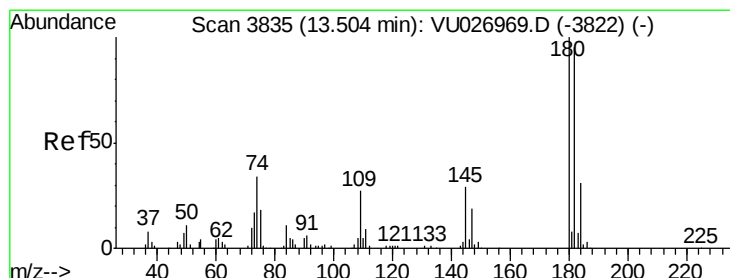
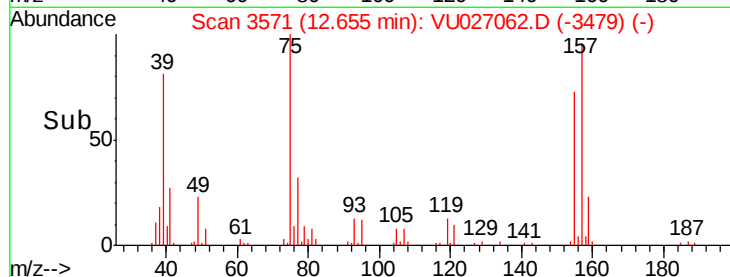
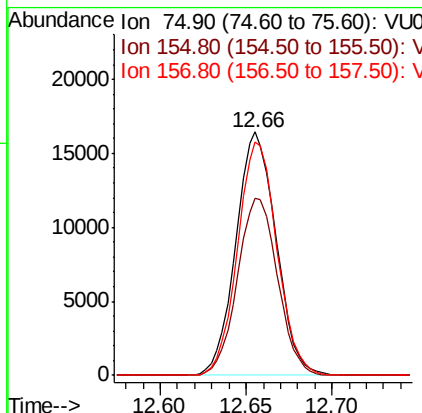
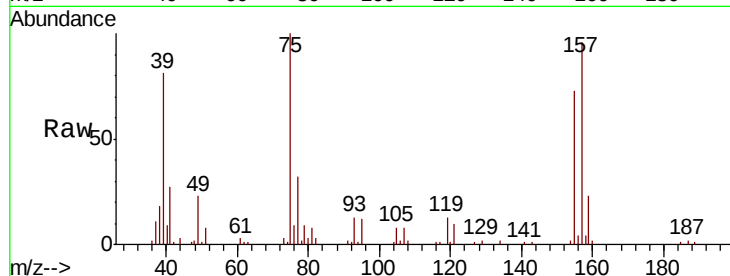
ClientSampleId :

SA-PZ12311-20180914MSD

Tot Ion:	75	Resp:	26790
Ion	Ratio	Lower	Upper
75	100		
155	72.3	36.6	109.8
157	93.7	47.4	142.2

Manual Integrations
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#93

1,2,4-Trichlorobenzene

Concen: 53.086 ug/l

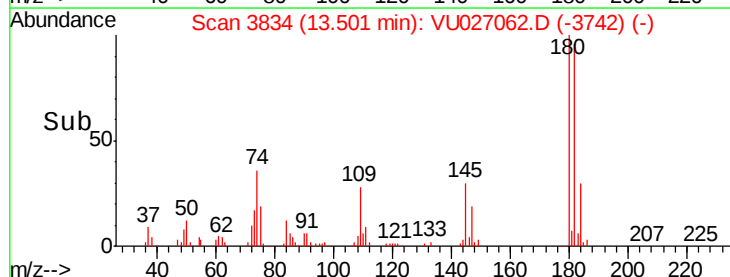
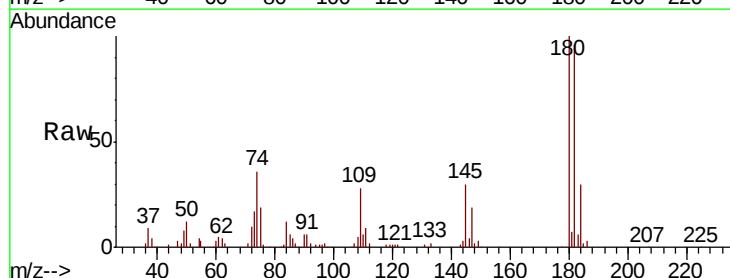
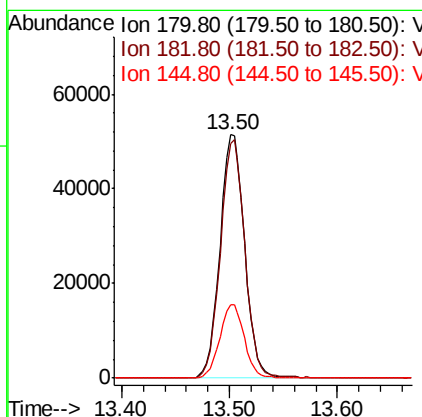
RT: 13.50 min Scan# 3834

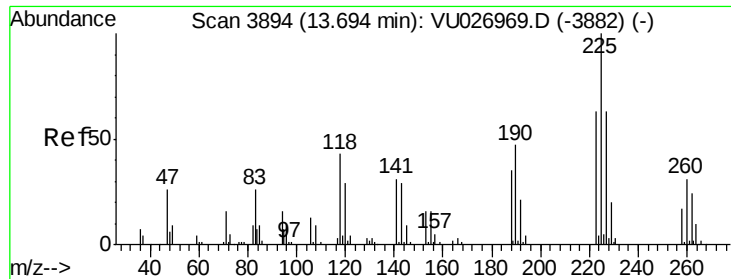
Delta R.T. -0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Tgt Ion:	180	Resp:	81702
Ion	Ratio	Lower	Upper
180	100		
182	96.7	47.4	142.2
145	29.9	14.9	44.5





#94

Hexachlorobutadiene

Concen: 47.080 ug/l

RT: 13.69 min Scan# 3894

Delta R.T. 0.00 min

Lab File: VU027062.D

Acq: 23 Sep 2018 09:58

Instrument :

MSVOA_U

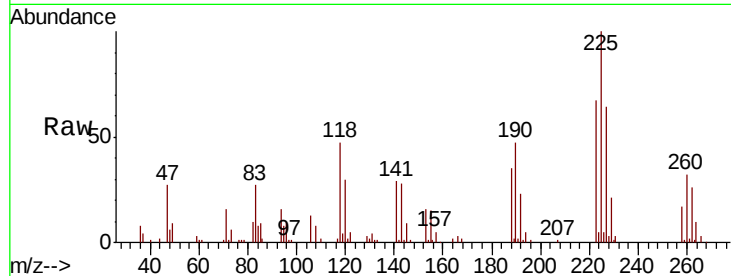
ClientSampleId :

SA-PZ123I1-20180914MSD

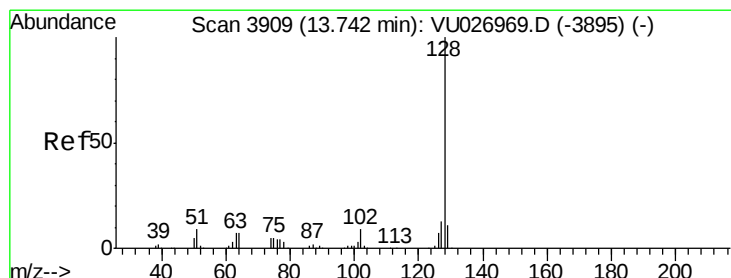
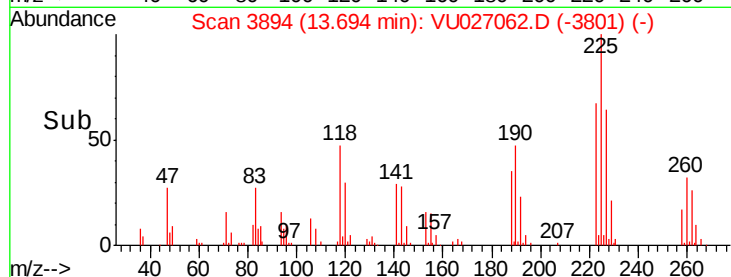
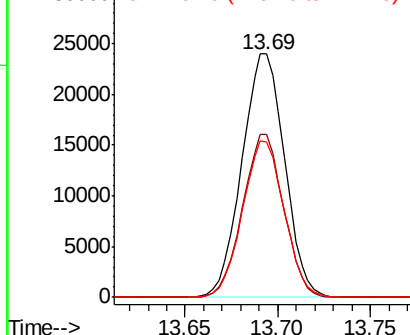
Tot Ion:	225	Resp:	38339
Ion Ratio	Lower	Upper	
225	100		
223	64.3	31.9	95.7
227	62.8	32.1	96.5

Manual Integrations
APPROVED

MMDadoda
9/24/2018 4:40:34 PM



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 50.234 ug/l

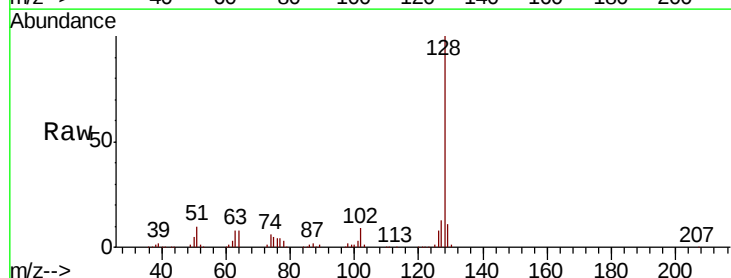
RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

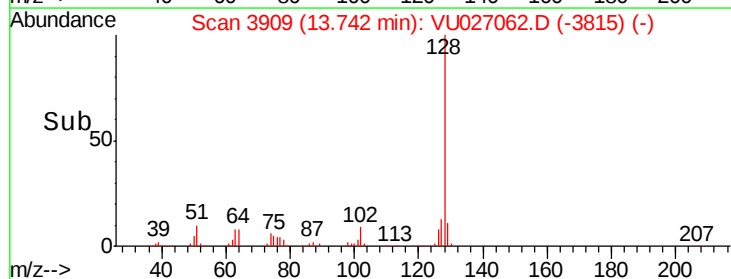
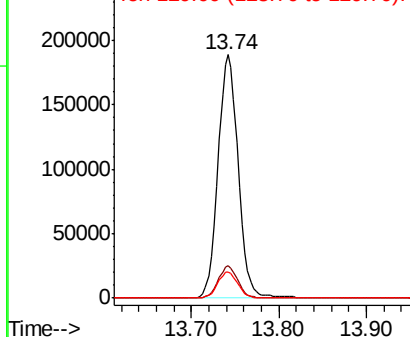
Lab File: VU027062.D

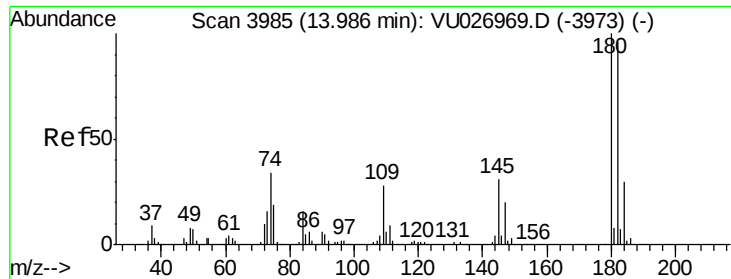
Acq: 23 Sep 2018 09:58

Tgt Ion:	128	Resp:	302331
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.6	15.8
129	10.8	8.6	12.8



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V





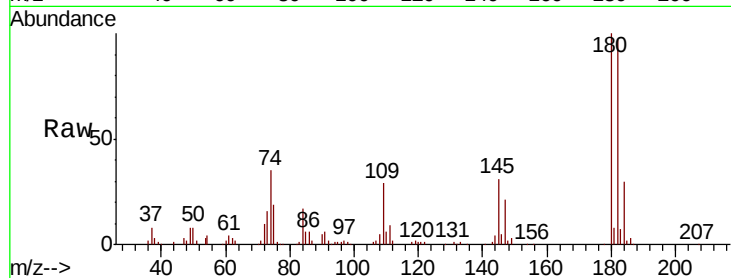
#96
 1,2,3-Trichlorobenzene
 Concen: 53.082 ug/l
 RT: 13.99 min Scan# 3985
 Delta R.T. 0.00 min
 Lab File: VU027062.D
 Acq: 23 Sep 2018 09:58

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ123I1-20180914MSD

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.5	142.5
145	31.7	15.4	46.4

Manual Integrations
 APPROVED

MMDadoda
 9/24/2018 4:40:34 PM



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

