

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092618\
 Data File : VU027185.D
 Acq On : 26 Sep 2018 18:10
 Operator : MD/SY
 Sample : J5032-04MS
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-19-092018MS

Manual Integrations
 APPROVED

MMDadoda
 9/27/2018 3:33:20 PM

Quant Time: Sep 27 02:35:26 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	77998	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	132521	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	132992	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	73475	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	82898	52.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.62%	
35) Dibromofluoromethane	4.88	113	57745	50.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.54%	
50) Toluene-d8	7.57	98	219307	50.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.20%	
62) 4-Bromofluorobenzene	10.31	95	80440	53.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.10%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	41600	40.850	ug/l	98
3) Chloromethane	1.33	50	67463	38.424	ug/l	99
4) Vinyl Chloride	1.40	62	70861	43.236	ug/l	97
5) Bromomethane	1.62	94	18446	19.764	ug/l	100
6) Chloroethane	1.69	64	46736	44.630	ug/l	99
7) Trichlorofluoromethane	1.88	101	84209	45.239	ug/l	98
8) Diethyl Ether	2.11	74	41487	46.304	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.29	101	51108	44.654	ug/l	99
10) Methyl Iodide	2.41	142	13666	9.627	ug/l	99
11) Tert butyl alcohol	2.83	59	95414	265.173	ug/l	99
12) 1,1-Dichloroethene	2.28	96	48639	45.150	ug/l	99
13) Acrolein	2.20	56	34936	180.114	ug/l	98
14) Allyl chloride	2.59	41	112269	51.383	ug/l	98
15) Acrylonitrile	2.94	53	250652	276.389	ug/l	99
16) Acetone	2.32	43	228230	275.379	ug/l	99
17) Carbon Disulfide	2.48	76	145665	41.507	ug/l	98
18) Methyl Acetate	2.62	43	122816	54.966	ug/l	99
19) Methyl tert-butyl Ether	3.00	73	211302	53.377	ug/l	98
20) Methylene Chloride	2.70	84	65178	46.360	ug/l	95
21) trans-1,2-Dichloroethene	2.98	96	55025	47.841	ug/l	99
22) Diisopropyl ether	3.58	45	261080	55.865	ug/l	96
23) Vinyl Acetate	3.53	43	1029584	258.447	ug/l	99
24) 1,1-Dichloroethane	3.45	63	131882	51.237	ug/l	99
25) 2-Butanone	4.26	43	363762	275.729	ug/l	98
26) 2,2-Dichloropropane	4.23	77	80908	40.306	ug/l	99
27) cis-1,2-Dichloroethene	4.23	96	66173	50.945	ug/l	98
28) Bromochloromethane	4.55	49	71957	57.994	ug/l	95
29) Tetrahydrofuran	4.64	42	234275	293.551	ug/l	96
30) Chloroform	4.67	83	120263	50.335	ug/l	100
31) Cyclohexane	5.00	56	109027	46.558	ug/l	98
32) 1,1,1-Trichloroethane	4.92	97	96828	50.759	ug/l	98
36) 1,1-Dichloropropene	5.14	75	84688	47.883	ug/l	99
37) Ethyl Acetate	4.38	43	119906	50.080	ug/l	98
38) Carbon Tetrachloride	5.13	117	81778	48.588	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.42	83	90249	46.955	ug/l	97
40) Benzene	5.39	78	258940	48.160	ug/l	99
41) Methacrylonitrile	4.55	41	73876	59.412	ug/l	97
42) 1,2-Dichloroethane	5.41	62	102951	50.680	ug/l	98
43) Isopropyl Acetate	5.55	43	191200	54.758	ug/l	99
44) Trichloroethene	6.19	130	53964	47.145	ug/l	96
45) 1,2-Dichloropropane	6.43	63	79464	51.870	ug/l	98
46) Dibromomethane	6.56	93	45537	49.216	ug/l	99
47) Bromodichloromethane	6.76	83	96305	51.476	ug/l	96
48) Methyl methacrylate	6.62	41	98971	52.035	ug/l	99
49) 1,4-Dioxane	6.61	88	34340	909.680	ug/l	97
51) 4-Methyl-2-Pentanone	7.46	43	697358	296.948	ug/l	99
52) Toluene	7.64	92	156484	50.775	ug/l	98
53) t-1,3-Dichloropropene	7.88	75	107244	53.352	ug/l	98
54) cis-1,3-Dichloropropene	7.27	75	109709	49.638	ug/l	98
55) 1,1,2-Trichloroethane	8.07	97	66323	50.788	ug/l	98
56) Ethyl methacrylate	8.02	69	114470	50.497	ug/l	98
57) 1,3-Dichloropropane	8.24	76	126926	52.258	ug/l	99
59) 2-Hexanone	8.36	43	536872	292.049	ug/l	99
60) Dibromochloromethane	8.48	129	67399	52.617	ug/l	98
61) 1,2-Dibromoethane	8.59	107	68842	50.667	ug/l	99
64) Tetrachloroethene	8.23	164	43906	42.844	ug/l	99
65) Chlorobenzene	9.12	112	163428	46.346	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	60468	49.785	ug/l	99
67) Ethyl Benzene	9.25	91	292870	50.507	ug/l	100
68) m/p-Xylenes	9.38	106	217182	92.596	ug/l	98
69) o-Xylene	9.78	106	106059	51.622	ug/l	99
70) Styrene	9.79	104	180435	47.143	ug/l	99
71) Bromoform	9.96	173	48922	52.087	ug/l #	98
73) Isopropylbenzene	10.17	105	284906	50.975	ug/l	100
74) N-amyl acetate	10.02	43	166585	51.491	ug/l	97
75) 1,1,2,2-Tetrachloroethane	10.46	83	121434	47.255	ug/l	100
76) 1,2,3-Trichloropropane	10.49	75	110395m	49.457	ug/l	
77) Bromobenzene	10.45	156	65203	47.739	ug/l	95
78) n-propylbenzene	10.59	91	348786	52.740	ug/l	99
79) 2-Chlorotoluene	10.66	91	204112	49.136	ug/l	100
80) 1,3,5-Trimethylbenzene	10.77	105	239256	51.858	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.52	75	25434m	36.464	ug/l	
82) 4-Chlorotoluene	10.77	91	237357	50.959	ug/l	99
83) tert-Butylbenzene	11.10	119	230600	50.555	ug/l	99
84) 1,2,4-Trimethylbenzene	11.15	105	245188	52.219	ug/l	99
85) sec-Butylbenzene	11.32	105	288351	51.786	ug/l	100
86) p-Isopropyltoluene	11.48	119	246459	47.224	ug/l	99
87) 1,3-Dichlorobenzene	11.42	146	120472	47.400	ug/l	99
88) 1,4-Dichlorobenzene	11.51	146	122484	44.217	ug/l	99
89) n-Butylbenzene	11.89	91	229174	45.476	ug/l	100
90) Hexachloroethane	12.15	117	48188	47.591	ug/l	97
91) 1,2-Dichlorobenzene	11.88	146	122769	45.473	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	28445	54.260	ug/l	97
93) 1,2,4-Trichlorobenzene	13.50	180	78236	50.286	ug/l	99

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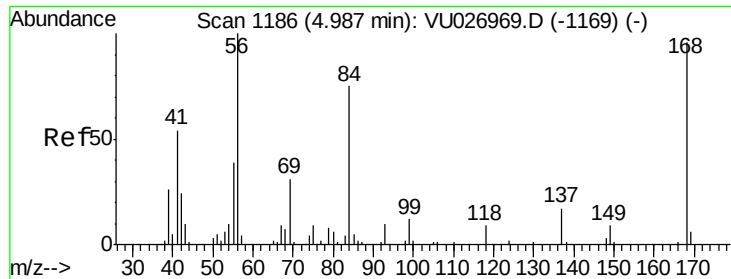
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	13.69	225	36774	44.672	ug/l	99
95) Naphthalene	13.75	128	289181	47.622	ug/l	100
96) 1,2,3-Trichlorobenzene	13.99	180	84858	50.861	ug/l	99

(#) = 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: VU027185.D

Acq: 26 Sep 2018 18:10

Instrument :

MSVOA_U

ClientSampleId :

MW-19-092018MS

Tot Ion:168 Resp: 77998

Ion Ratio Lower Upper

168 100

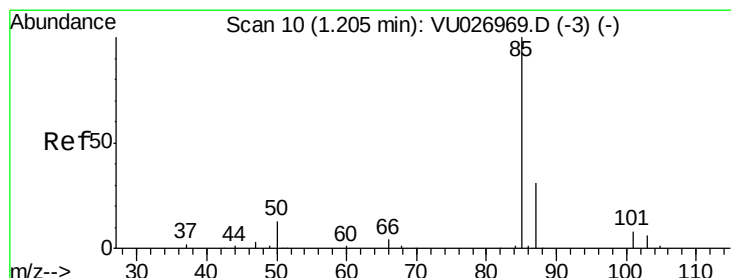
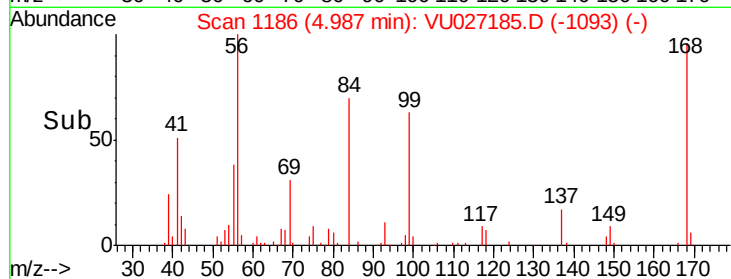
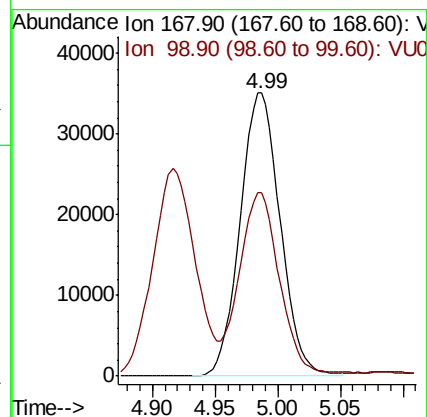
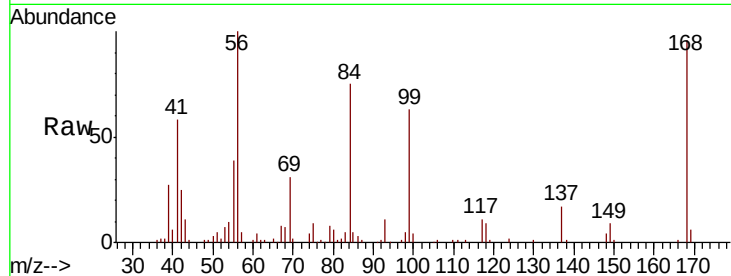
99 63.4 48.1 72.1

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 40.850 ug/l

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU027185.D

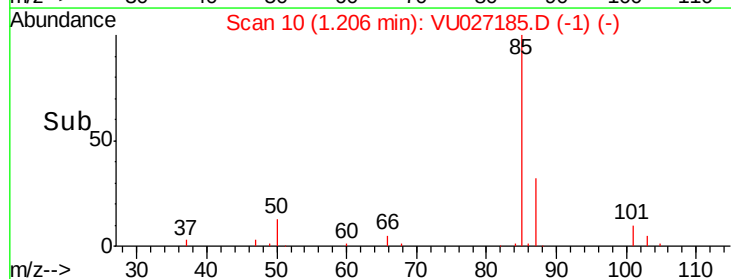
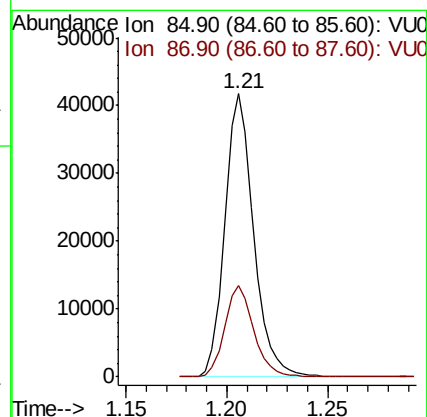
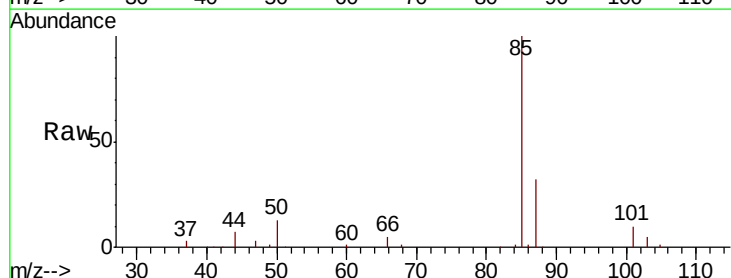
Acq: 26 Sep 2018 18:10

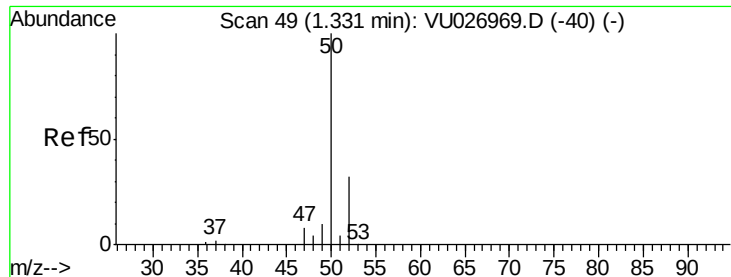
Tgt Ion: 85 Resp: 41600

Ion Ratio Lower Upper

85 100

87 32.3 15.6 46.7





#3

Chloromethane

Concen: 38.424 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Instrument :

MSVOA_U

ClientSampleId :

MW-19-092018MS

Tot Ion: 50 Resp: 67463

Ion Ratio Lower Upper

50 100

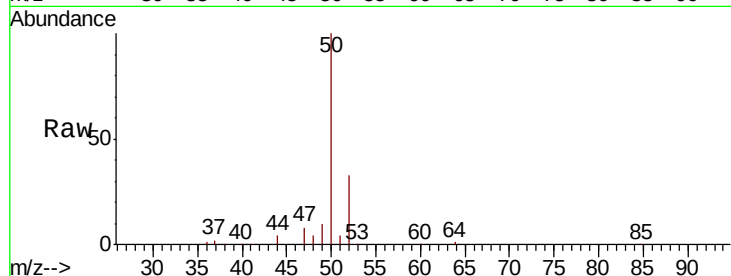
52 32.7 25.9 38.9

Manual Integrations

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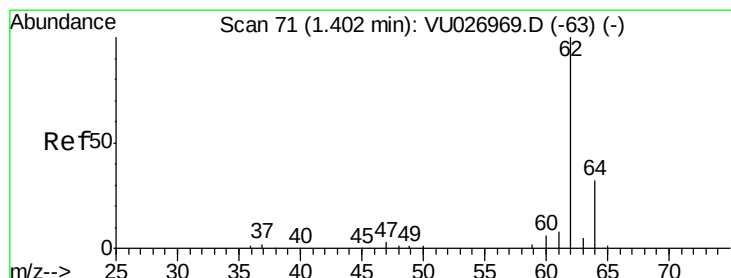
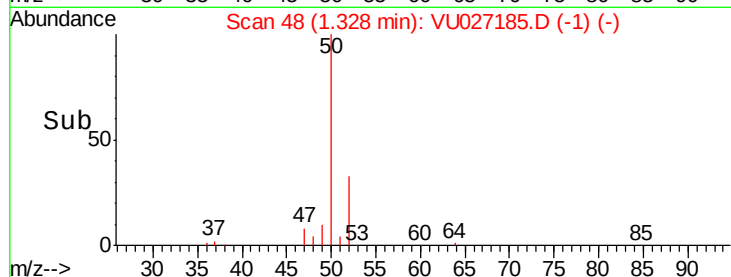
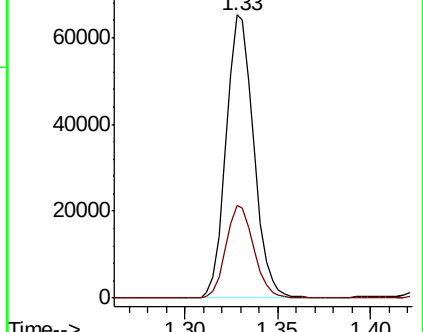
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Abundance Ion 49.90 (49.60 to 50.60): VU026969.D (-40) (-)

Ion 51.90 (51.60 to 52.60): VU027185.D (-1) (-)



#4

Vinyl Chloride

Concen: 43.236 ug/l

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU027185.D

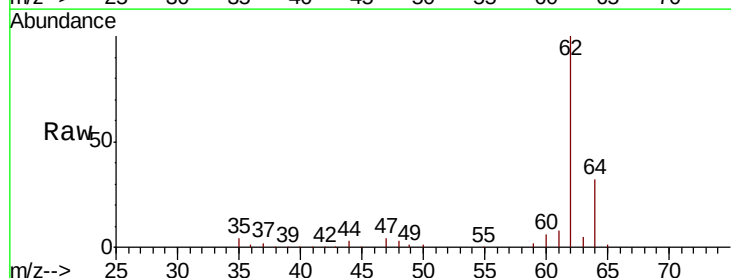
Acq: 26 Sep 2018 18:10

Tgt Ion: 62 Resp: 70861

Ion Ratio Lower Upper

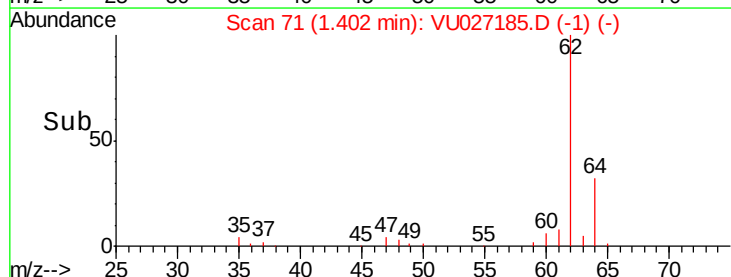
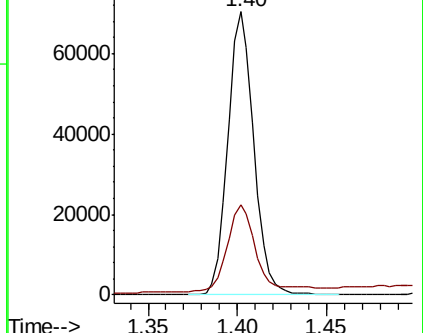
62 100

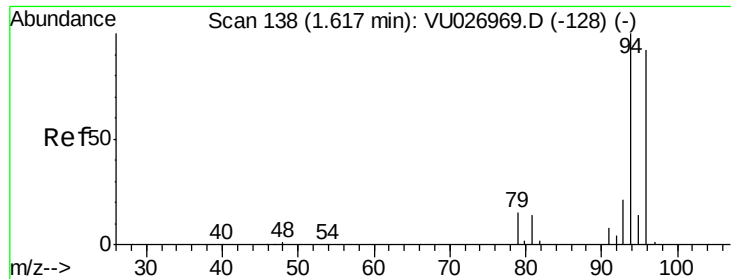
64 30.5 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VU026969.D (-63) (-)

Ion 63.90 (63.60 to 64.60): VU027185.D (-1) (-)





#5

Bromomethane

Concen: 19.764 ug/l

RT: 1.62 min Scan# 139

Delta R.T. 0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Instrument :

MSVOA_U

ClientSampleId :

MW-19-092018MS

Tot Ion: 94 Resp: 18446

Ion Ratio Lower Upper

94 100

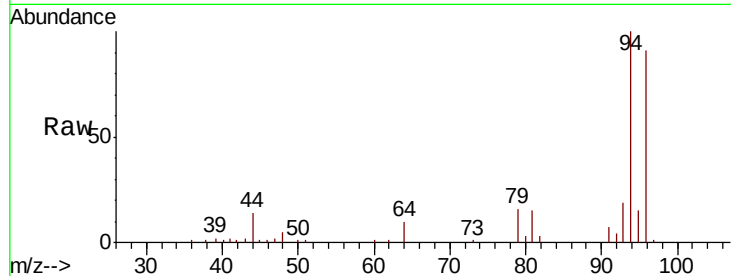
96 91.4 73.2 109.8

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VU026969.D (-128) (-)

Ion 95.90 (95.60 to 96.60): VU027185.D (-45) (-)

15000

10000

5000

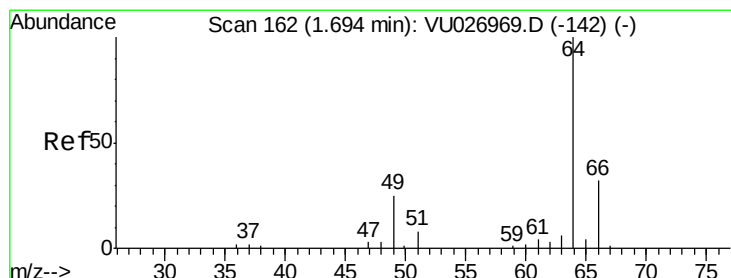
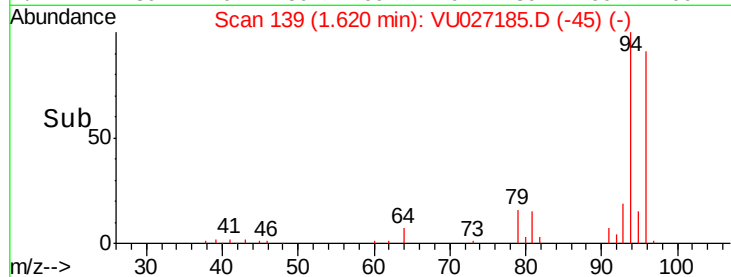
0

1.62

1.60

1.65

Time-->



#6

Chloroethane

Concen: 44.630 ug/l

RT: 1.69 min Scan# 162

Delta R.T. 0.00 min

Lab File: VU027185.D

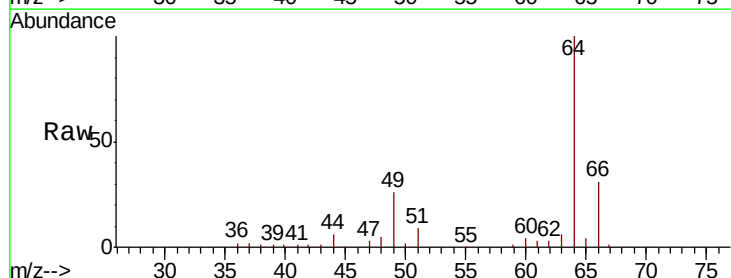
Acq: 26 Sep 2018 18:10

Tgt Ion: 64 Resp: 46736

Ion Ratio Lower Upper

64 100

66 31.9 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VU026969.D (-142) (-)

Ion 65.90 (65.60 to 66.60): VU027185.D (-69) (-)

40000

30000

20000

10000

0

1.69

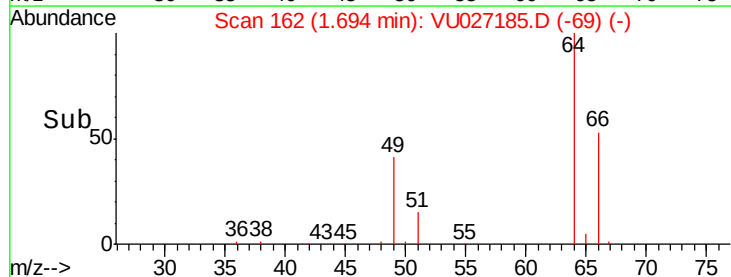
1.65

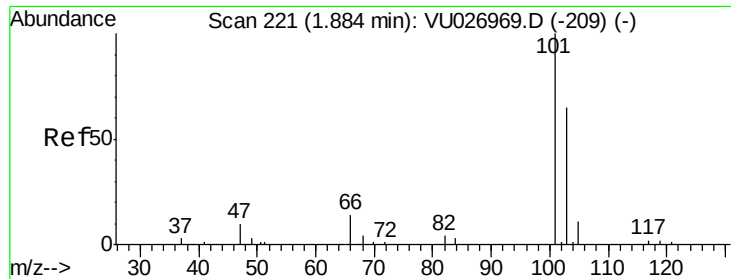
1.70

1.75

1.80

Time-->





#7

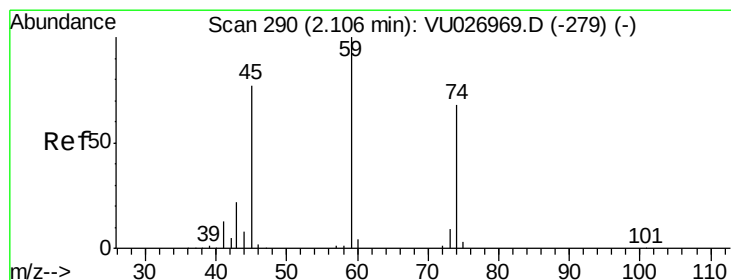
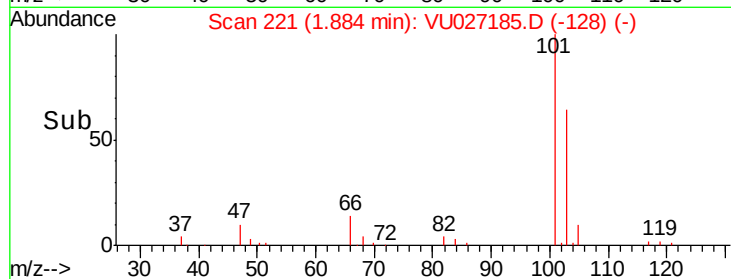
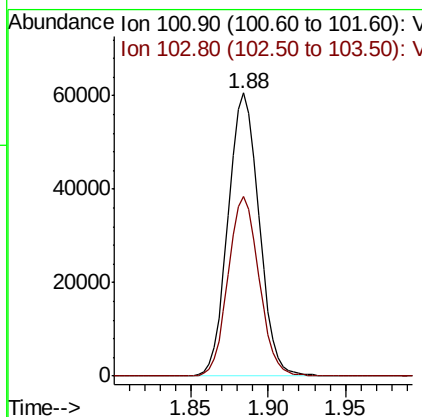
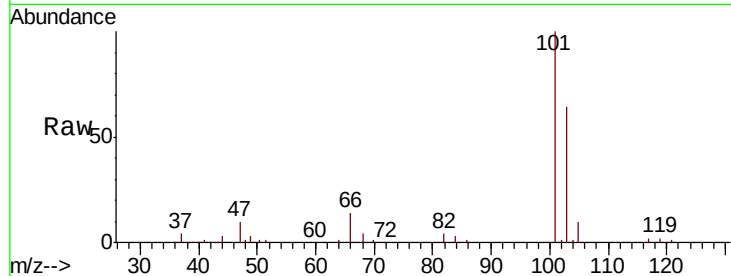
Trichlorofluoromethane
 Concen: 45.239 ug/l
 RT: 1.88 min Scan# 221
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Instrument :
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 ClientSampleId :
 MW-19-092018MS

Tot Ion:101 Resp: 84209
 Ion Ratio Lower Upper
 101 100
 103 63.5 52.2 78.2

Manual Integrations
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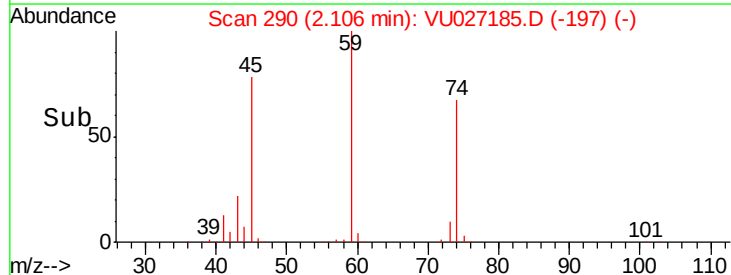
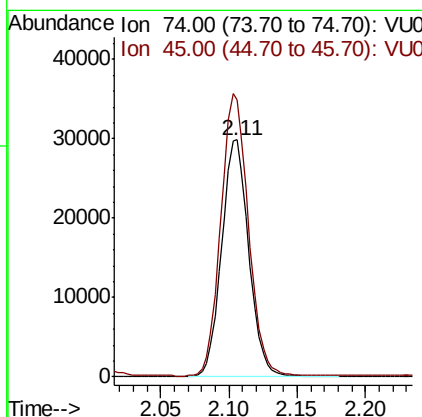
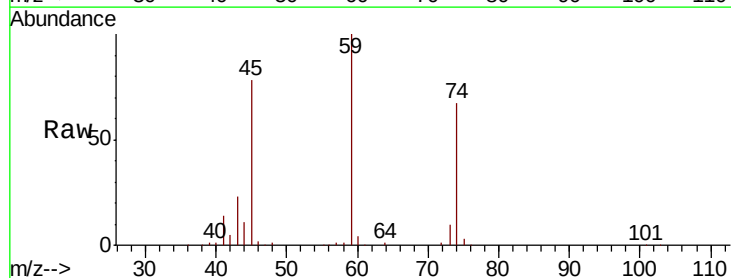
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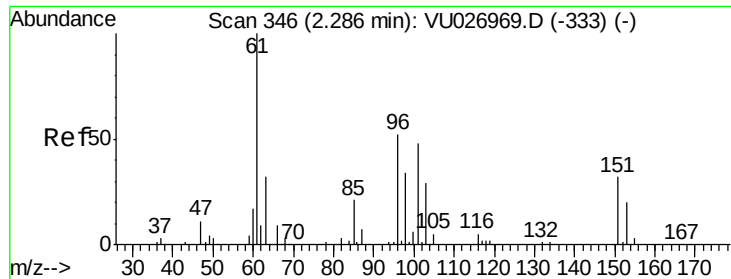


#8

Diethyl Ether
 Concen: 46.304 ug/l
 RT: 2.11 min Scan# 290
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Tgt Ion: 74 Resp: 41487
 Ion Ratio Lower Upper
 74 100
 45 120.6 56.9 170.7





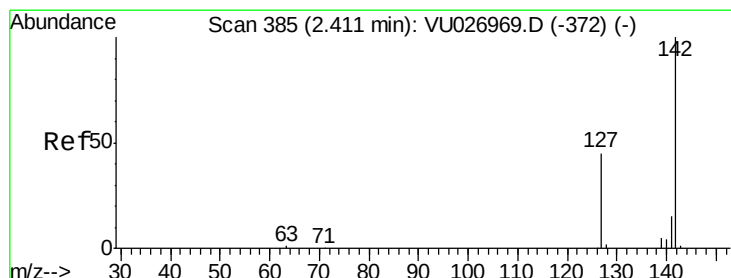
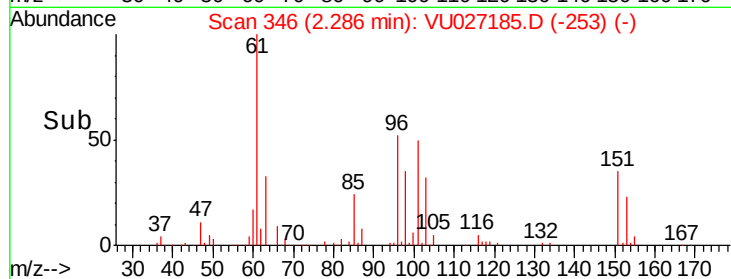
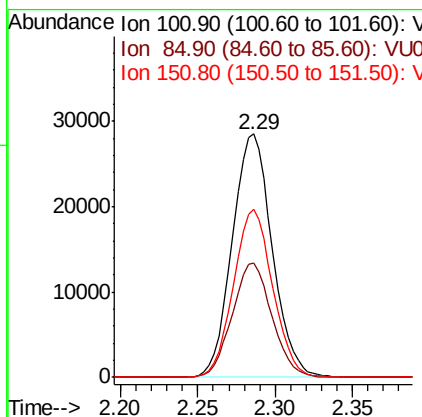
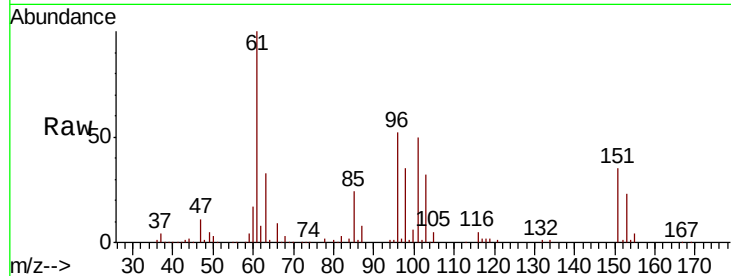
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 44.654 ug/l
 RT: 2.29 min Scan# 346
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-19-092018MS

Tot Ion	Ratio	Resp	Lower	Upper
101	100	51108		
85	46.6	36.2	54.2	
151	67.6	54.5	81.7	

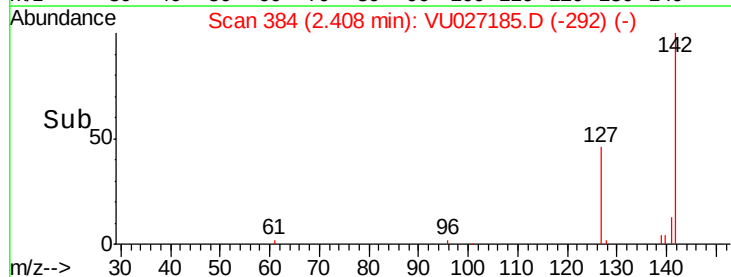
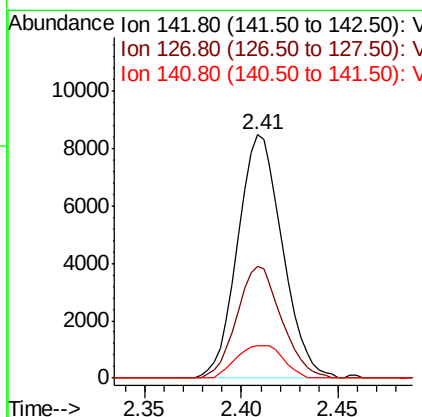
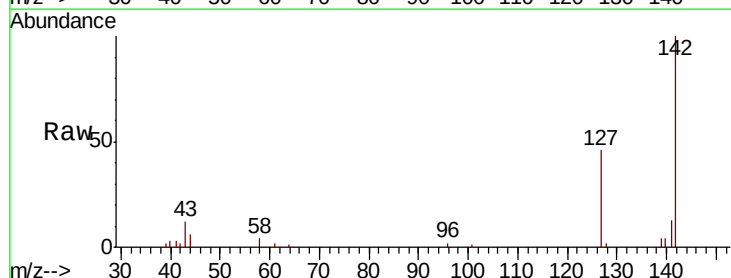
Manual Integrations
 APPROVED

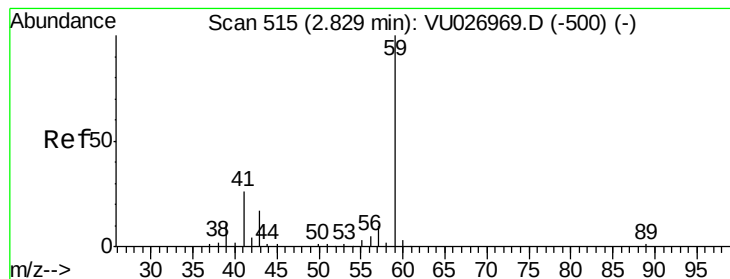
MMDadoda
 9/27/2018 3:33:20 PM



#10
 Methyl Iodide
 Concen: 9.627 ug/l
 RT: 2.41 min Scan# 384
 Delta R.T. -0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	13666		
127	45.8	36.7	55.1	
141	13.9	11.8	17.6	





#11

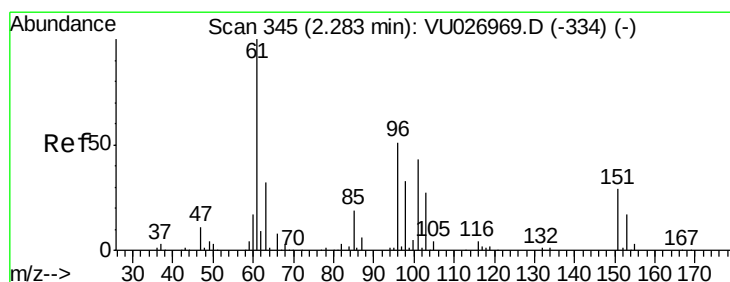
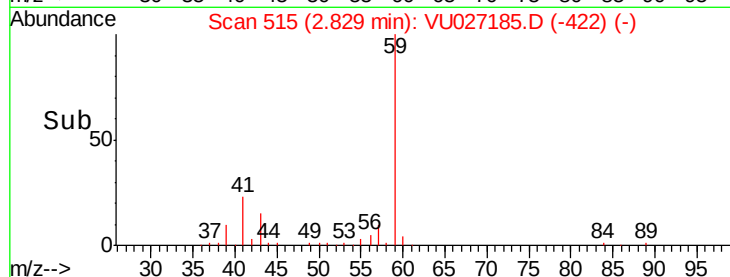
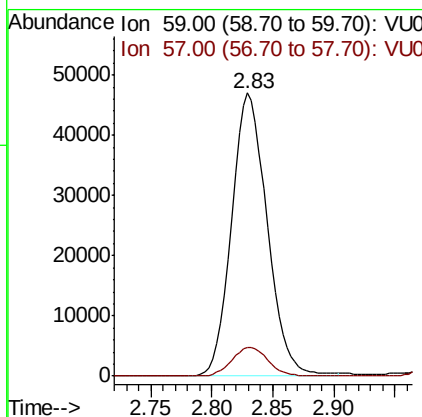
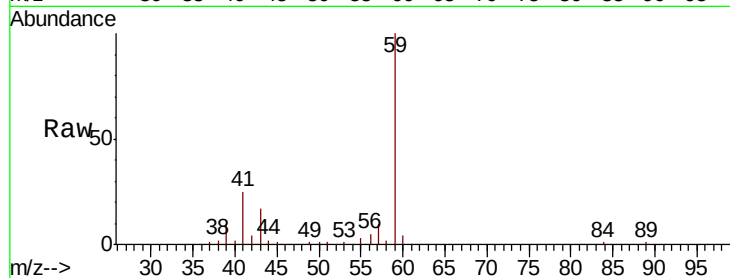
Tert butyl alcohol
Concen: 265.173 ug/l
RT: 2.83 min Scan# 515
Delta R.T. 0.00 min
Lab File: VU027185.D
Acq: 26 Sep 2018 18:10

Instrument :
MSVOA_U
ClientSampleId :
MW-19-092018MS

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.5	12.7

Manual Integrations
APPROVED

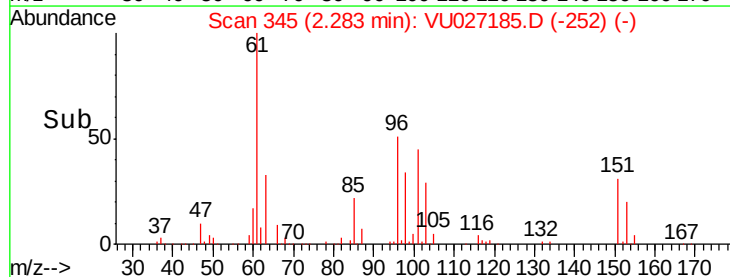
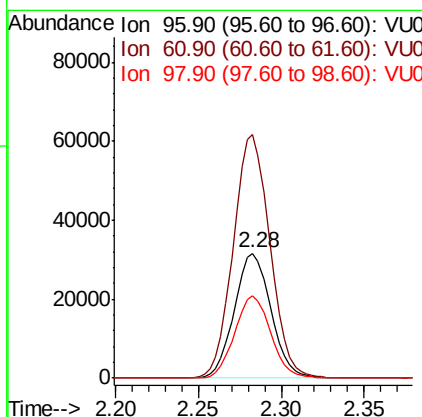
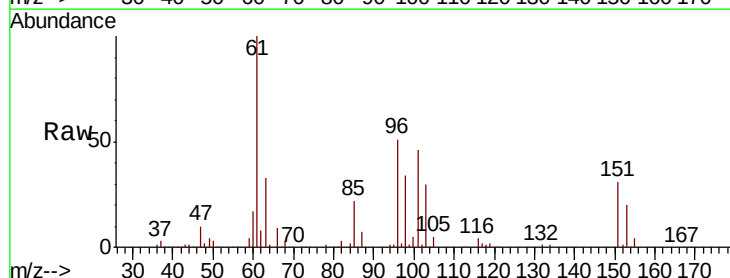
MMDadoda
9/27/2018 3:33:20 PM

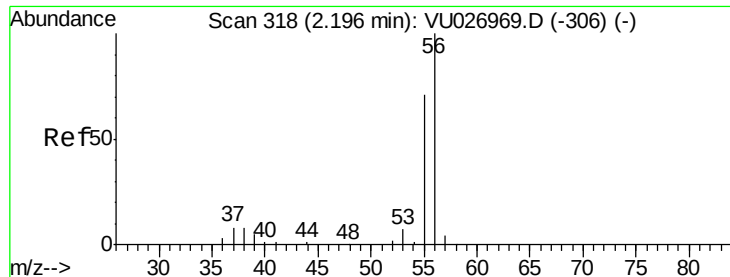


#12

1,1-Dichloroethene
Concen: 45.150 ug/l
RT: 2.28 min Scan# 345
Delta R.T. 0.00 min
Lab File: VU027185.D
Acq: 26 Sep 2018 18:10

Tgt Ion	Ratio	Lower	Upper
96	100		
61	194.7	156.1	234.1
98	65.6	51.4	77.0





#13

Acrolein

Concen: 180.114 ug/l

RT: 2.20 min Scan# 318

Delta R.T. 0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Instrument :

MSVOA_U

ClientSampleId :

MW-19-092018MS

Tot Ion: 56 Resp: 34936

Ion Ratio Lower Upper

56 100

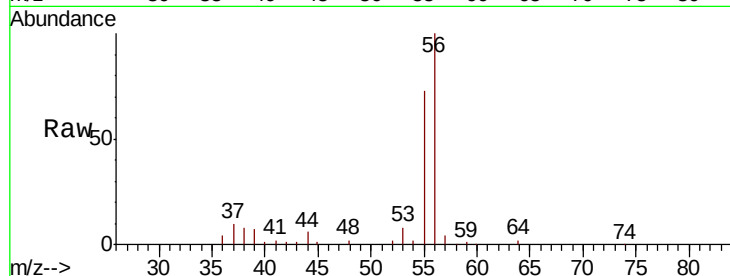
55 72.8 57.1 85.7

Manual Integrations

APPROVED

MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

25000

20000

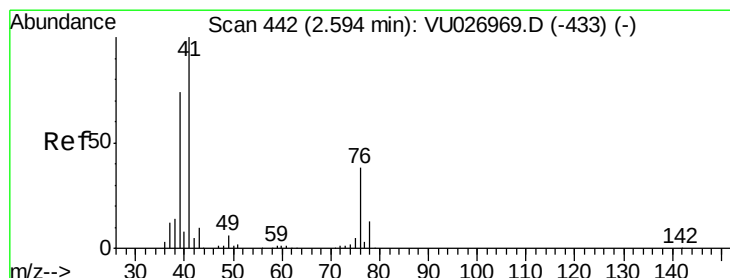
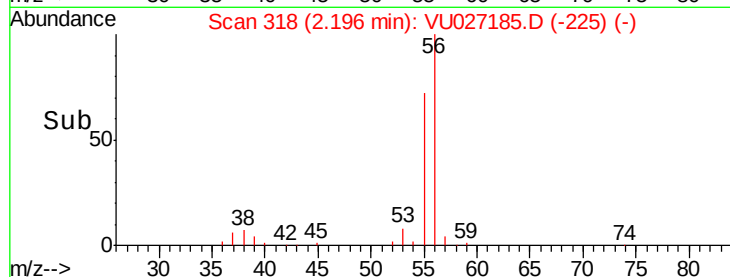
15000

10000

5000

0

Time-->



#14

Allyl chloride

Concen: 51.383 ug/l

RT: 2.59 min Scan# 441

Delta R.T. -0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

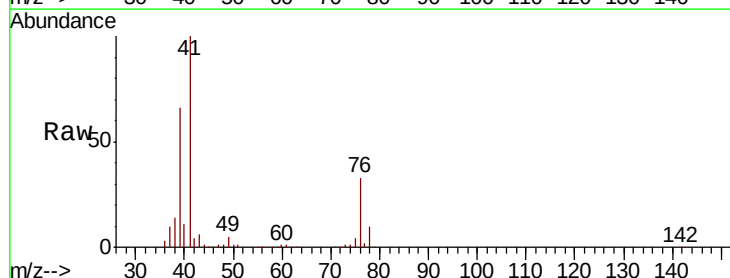
Tgt Ion: 41 Resp: 112269

Ion Ratio Lower Upper

41 100

39 68.0 55.7 83.5

76 32.6 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

80000

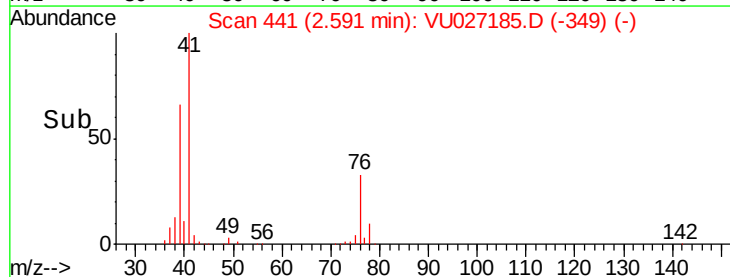
60000

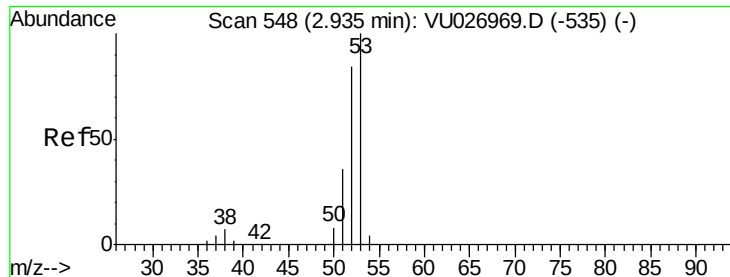
40000

20000

0

Time-->





#15

Acrylonitrile

Concen: 276.389 ug/l

RT: 2.94 min Scan# 548

Delta R.T. 0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Instrument :

MSVOA_U

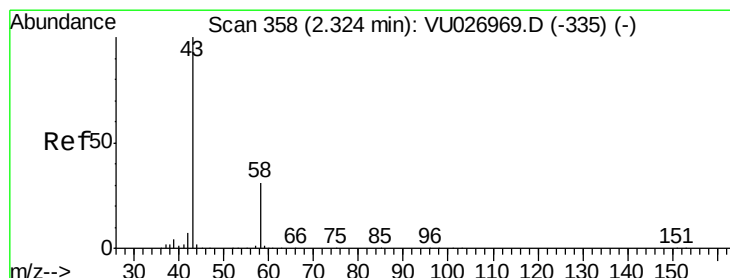
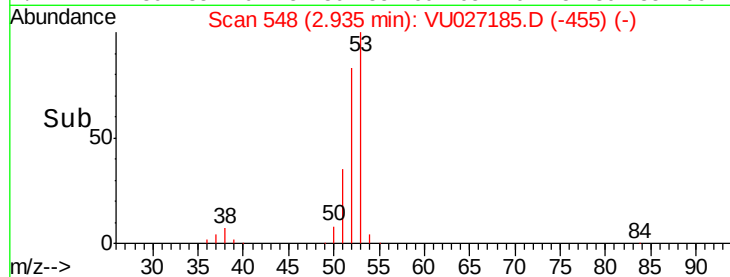
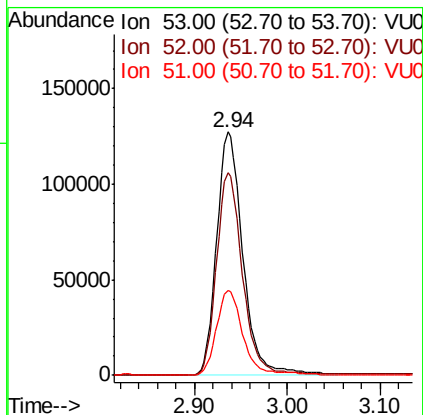
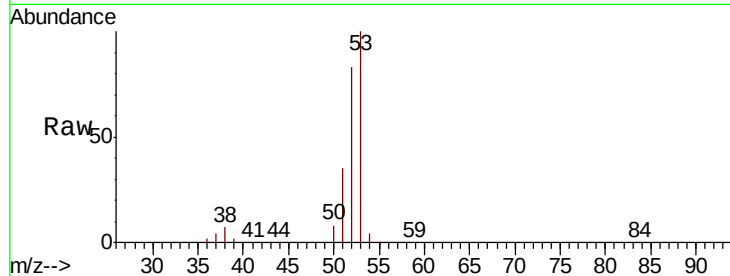
ClientSampleId :

MW-19-092018MS

Tot Ion:	53	Resp:	250652
Ion	Ratio	Lower	Upper
53	100		
52	82.2	65.7	98.5
51	35.8	27.4	41.2

Manual Integrations
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MMDadoda
9/27/2018 3:33:20 PM



#16

Acetone

Concen: 275.379 ug/l

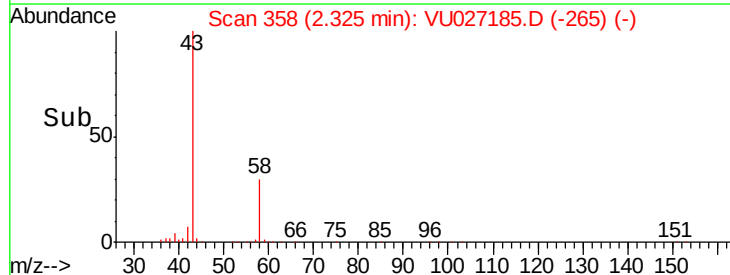
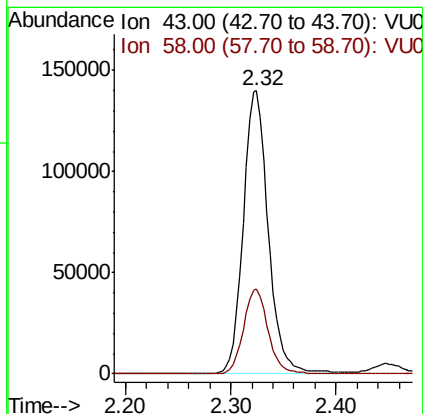
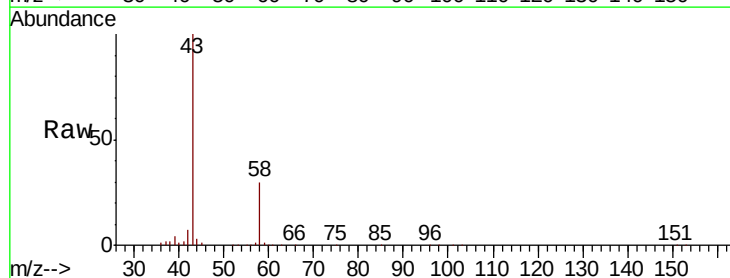
RT: 2.32 min Scan# 358

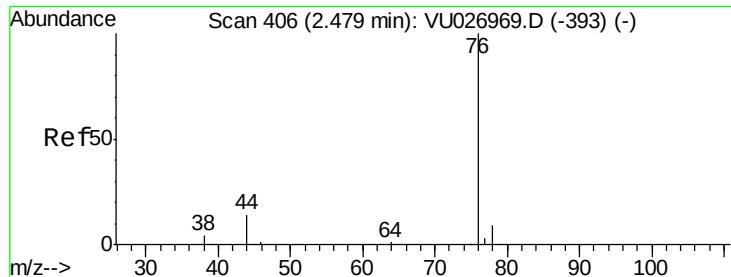
Delta R.T. 0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Tgt Ion:	43	Resp:	228230
Ion	Ratio	Lower	Upper
43	100		
58	30.0	24.6	36.8





#17

Carbon Disulfide

Concen: 41.507 ug/l

RT: 2.48 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Instrument :

MSVOA_U

ClientSampleId :

MW-19-092018MS

Tot Ion: 76 Resp: 145665

Ion Ratio Lower Upper

76 100

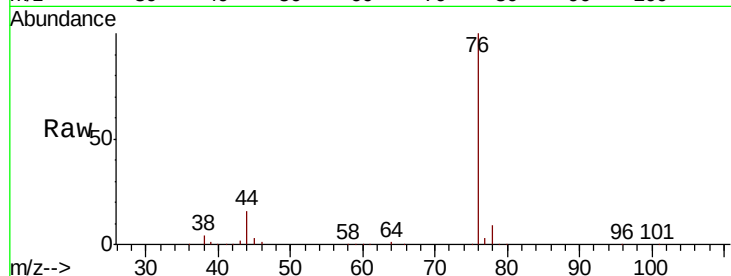
78 9.5 7.1 10.7

Manual Integrations

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MMDadoda

9/27/2018 3:33:20 PM



Abundance Ion 75.90 (75.60 to 76.60): VU027185.D (-313) (-)

Ion 77.90 (77.60 to 78.60): VU027185.D (-313) (-)

2.48

80000

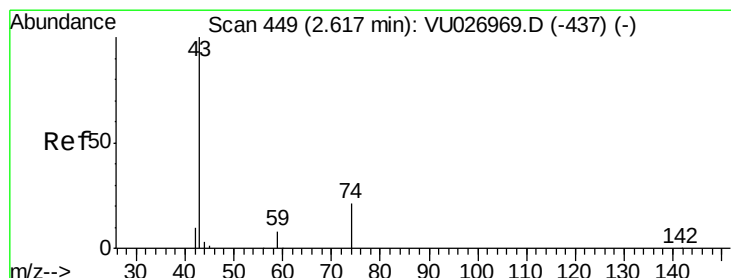
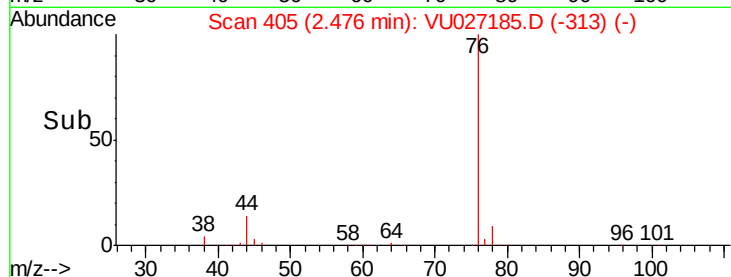
60000

40000

20000

0

Time-->



#18

Methyl Acetate

Concen: 54.966 ug/l

RT: 2.62 min Scan# 449

Delta R.T. 0.00 min

Lab File: VU027185.D

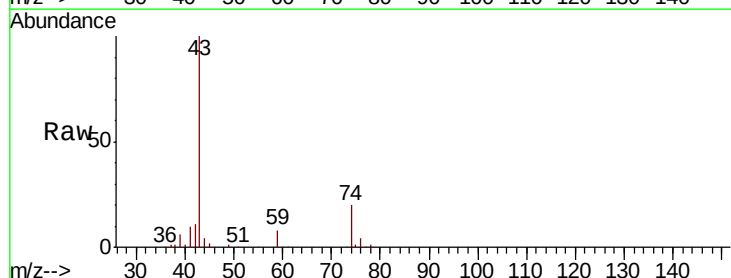
Acq: 26 Sep 2018 18:10

Tgt Ion: 43 Resp: 122816

Ion Ratio Lower Upper

43 100

74 20.3 16.6 25.0



Abundance Ion 43.00 (42.70 to 43.70): VU027185.D (-356) (-)

Ion 74.00 (73.70 to 74.70): VU027185.D (-356) (-)

2.62

80000

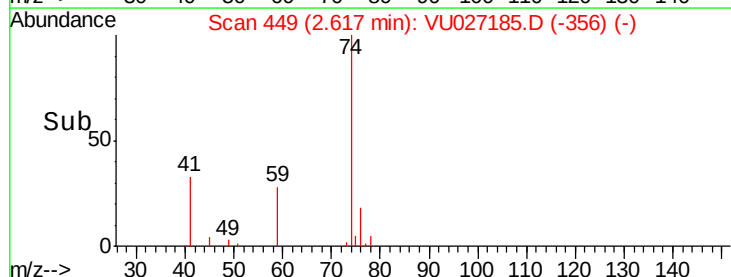
60000

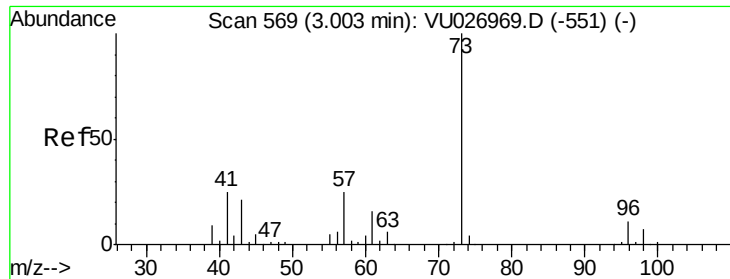
40000

20000

0

Time-->





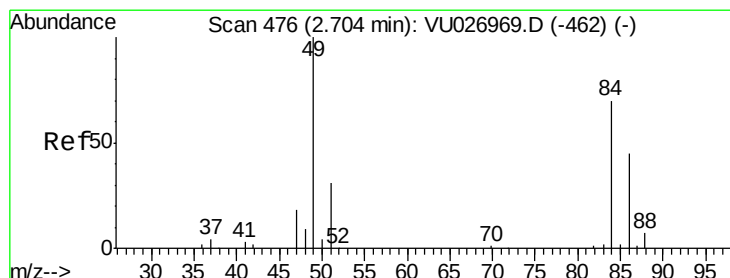
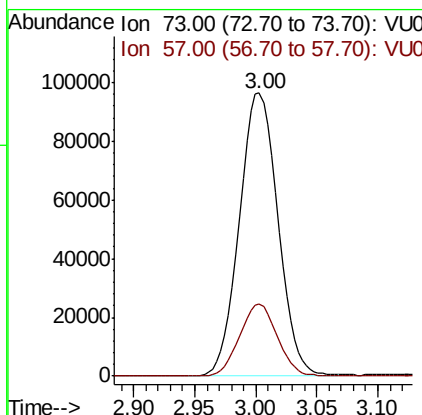
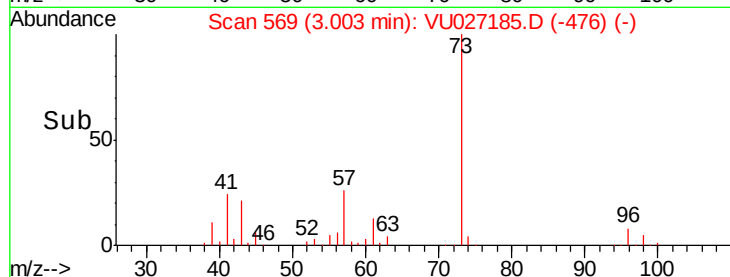
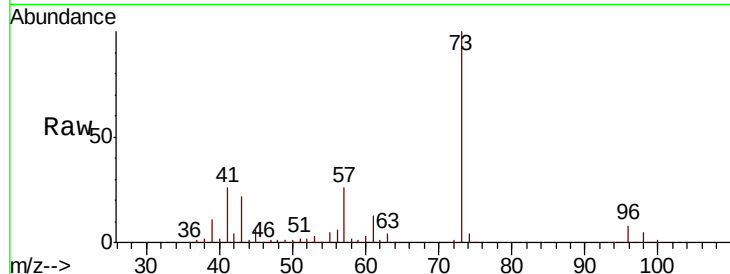
#19
Methyl tert-butyl Ether
Concen: 53.377 ug/l
RT: 3.00 min Scan# 569
Delta R.T. 0.00 min
Lab File: VU027185.D
Acq: 26 Sep 2018 18:10

Instrument :
MSVOA_U
ClientSampleId :
MW-19-092018MS

Tot Ion	Ratio	Lower	Upper
73	100		
57	25.5	19.8	29.6

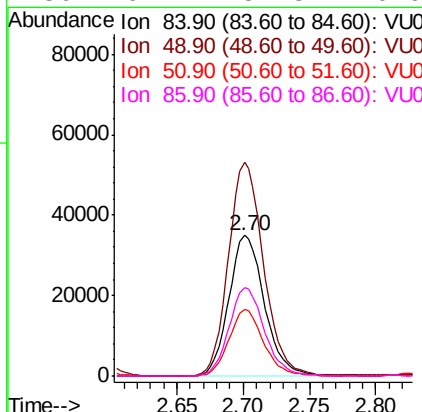
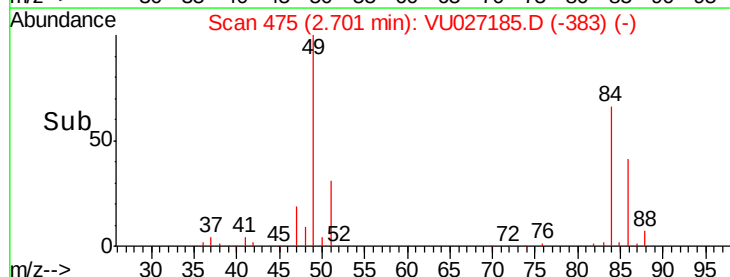
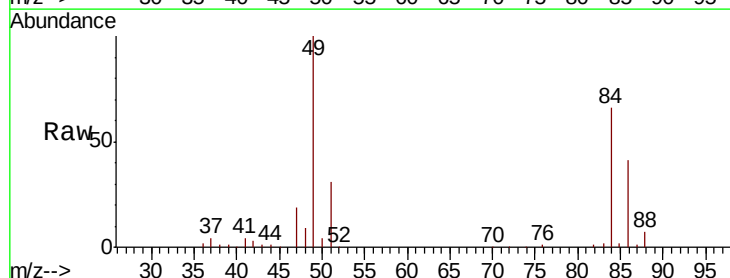
Manual Integrations
APPROVED

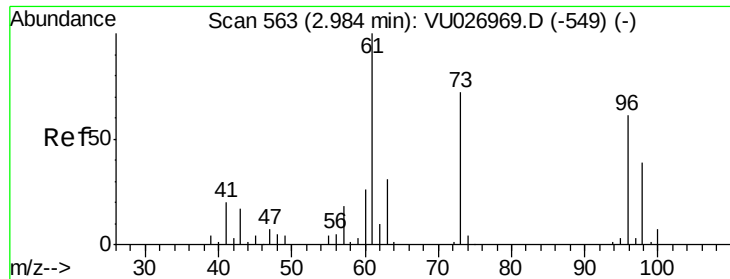
MMDadoda
9/27/2018 3:33:20 PM



#20
Methylene Chloride
Concen: 46.360 ug/l
RT: 2.70 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU027185.D
Acq: 26 Sep 2018 18:10

Tgt Ion	Ratio	Lower	Upper
84	100		
49	151.9	114.9	172.3
51	47.7	35.8	53.8
86	62.7	51.3	76.9





#21

trans-1,2-Dichloroethene

Concen: 47.841 ug/l

RT: 2.98 min Scan# 563

Delta R.T. 0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Instrument :

MSVOA_U

ClientSampleId :

MW-19-092018MS

Tot Ion: 96 Resp: 55025

Ion Ratio Lower Upper

96 100

61 163.5 131.8 197.6

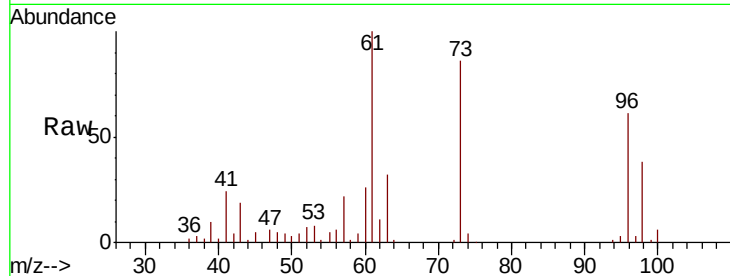
98 62.5 50.9 76.3

Manual Integrations

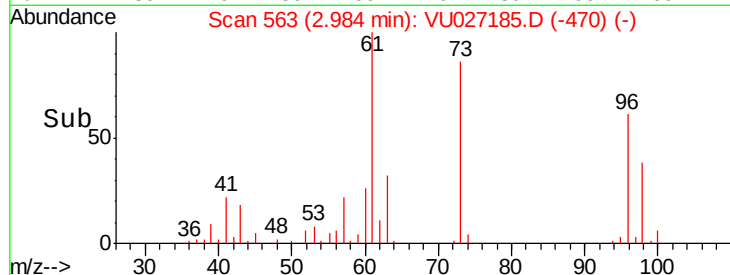
APPROVED

MMDadoda

9/27/2018 3:33:20 PM

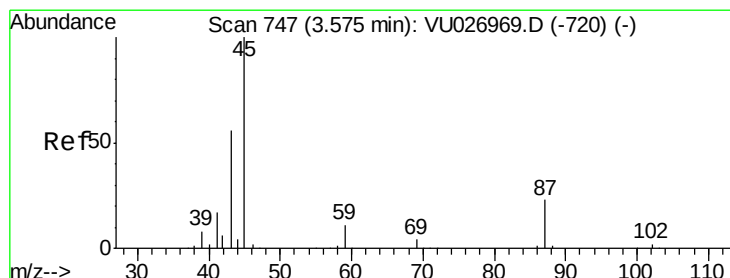
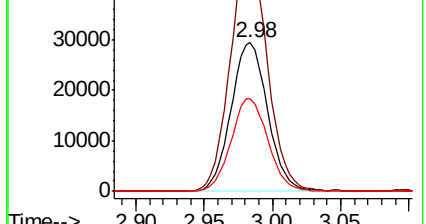


Abundance Ion 95.90 (95.60 to 96.60): VU027185.D (-470) (-)



Ion 60.90 (60.60 to 61.60): VU027185.D (-470) (-)

Ion 97.90 (97.60 to 98.60): VU027185.D (-470) (-)



#22

Diisopropyl ether

Concen: 55.865 ug/l

RT: 3.58 min Scan# 747

Delta R.T. 0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Tgt Ion: 45 Resp: 261080

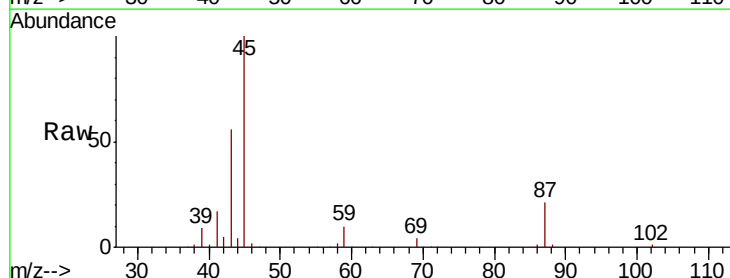
Ion Ratio Lower Upper

45 100

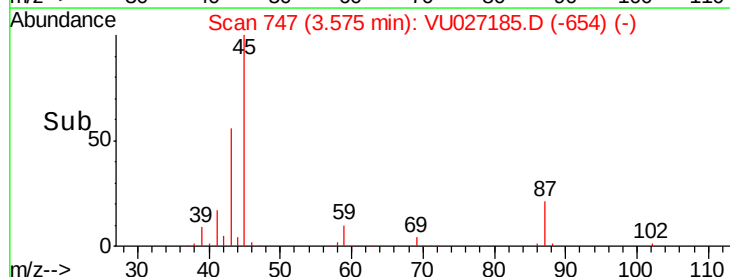
43 53.5 45.8 68.6

87 21.3 18.6 28.0

59 10.3 9.0 13.4



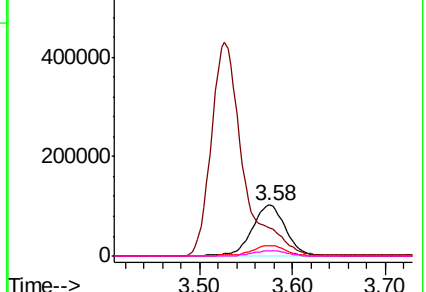
Abundance Ion 45.00 (44.70 to 45.70): VU027185.D (-654) (-)

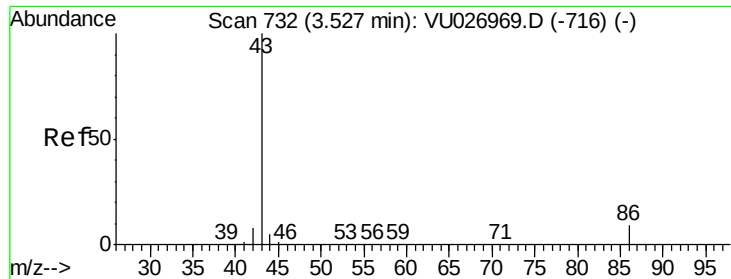


Ion 43.00 (42.70 to 43.70): VU027185.D (-654) (-)

Ion 87.00 (86.70 to 87.70): VU027185.D (-654) (-)

Ion 59.00 (58.70 to 59.70): VU027185.D (-654) (-)





#23

Vinyl Acetate

Concen: 258.447 ug/l

RT: 3.53 min Scan# 732

Delta R.T. 0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Instrument :

MSVOA_U

ClientSampleId :

MW-19-092018MS

Tot Ion: 43 Resp: 1029584

Ion Ratio Lower Upper

43 100

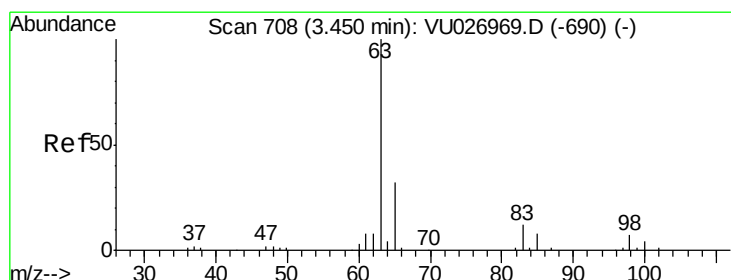
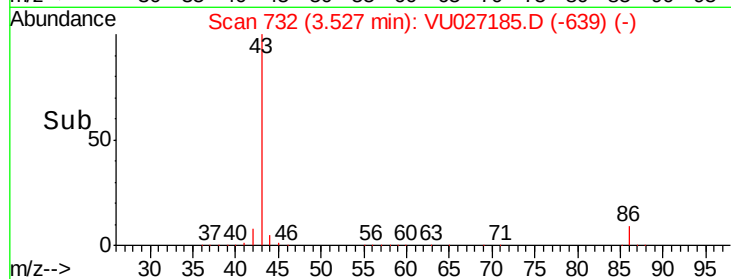
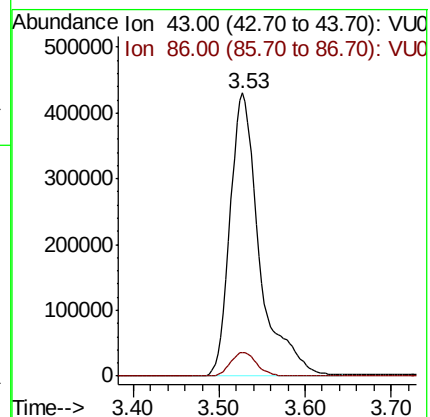
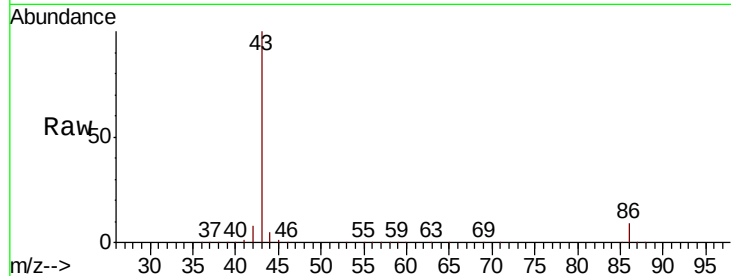
86 8.5 7.2 10.8

Manual Integrations

APPROVED

MMDadoda

9/27/2018 3:33:20 PM



#24

1,1-Dichloroethane

Concen: 51.237 ug/l

RT: 3.45 min Scan# 707

Delta R.T. -0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

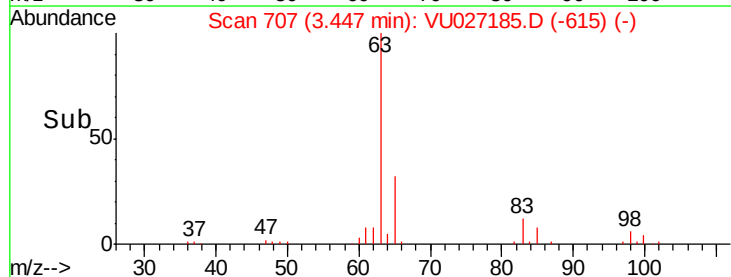
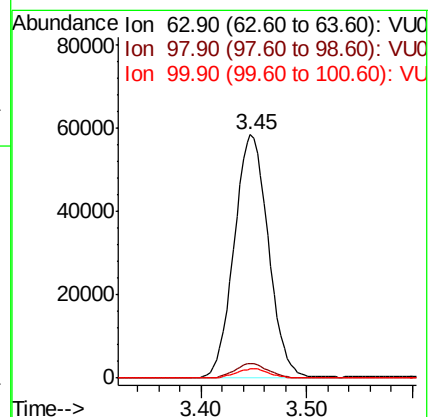
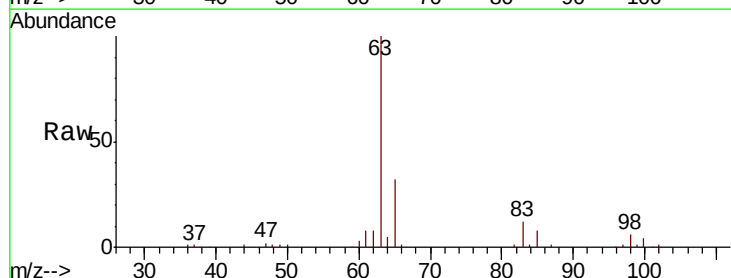
Tgt Ion: 63 Resp: 131882

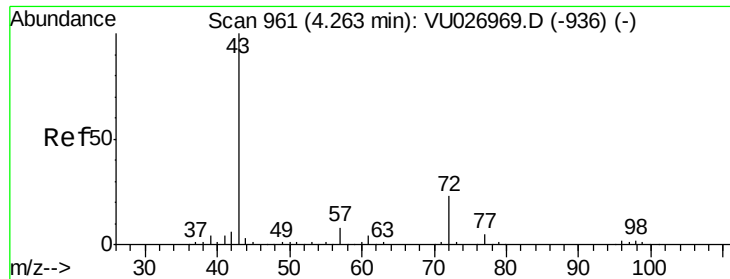
Ion Ratio Lower Upper

63 100

98 6.2 3.3 9.8

100 4.0 2.0 5.8





#25

2-Butanone

Concen: 275.729 ug/l

RT: 4.26 min Scan# 961

Delta R.T. 0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Instrument :

MSVOA_U

ClientSampleId :

MW-19-092018MS

Tot Ion: 43 Resp: 363762

Ion Ratio Lower Upper

43 100

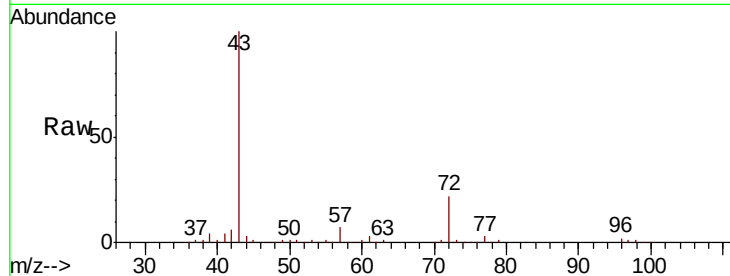
72 21.9 18.4 27.6

Manual Integrations

APPROVED

MMDadoda

9/27/2018 3:33:20 PM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

150000

100000

50000

0

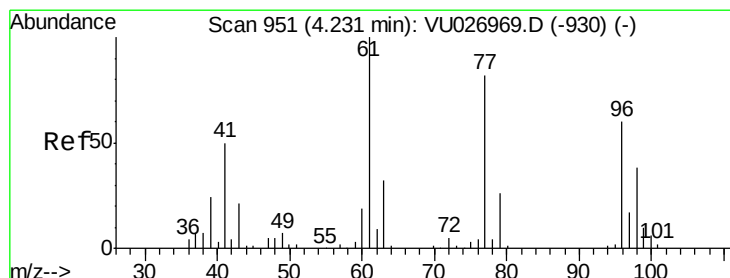
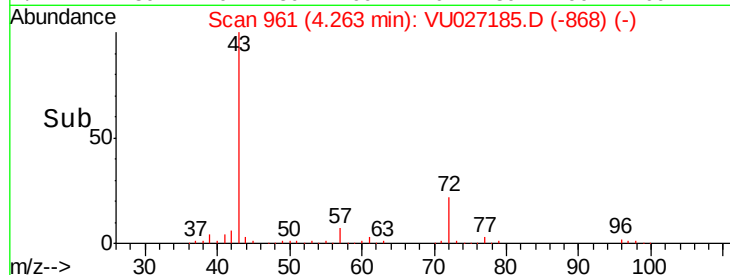
4.26

4.25

4.30

4.35

Time-->



#26

2,2-Dichloropropane

Concen: 40.306 ug/l

RT: 4.23 min Scan# 950

Delta R.T. -0.00 min

Lab File: VU027185.D

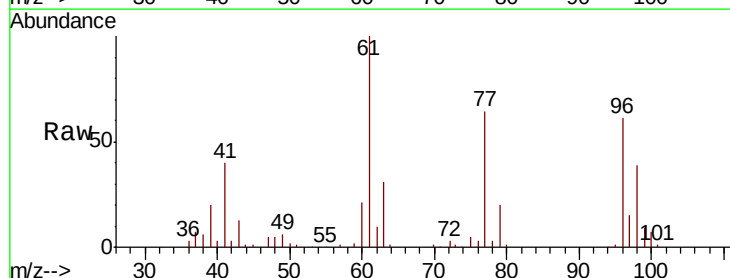
Acq: 26 Sep 2018 18:10

Tgt Ion: 77 Resp: 80908

Ion Ratio Lower Upper

77 100

97 21.5 10.5 31.5



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0

30000

20000

10000

0

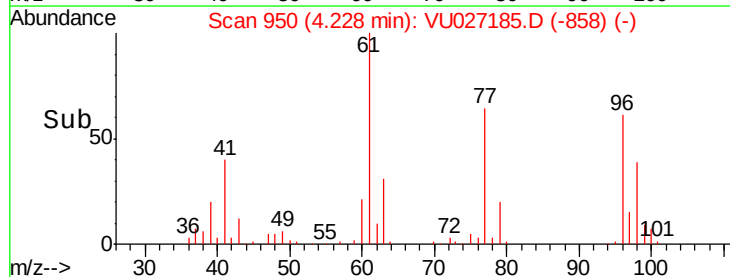
4.23

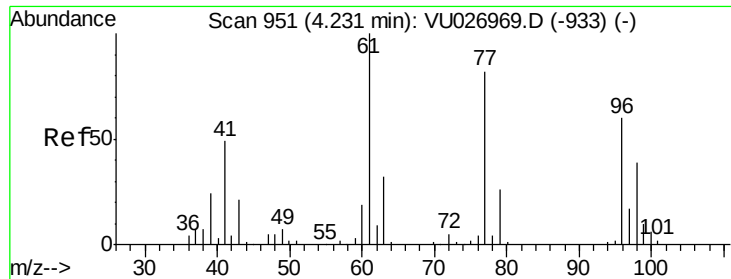
4.20

4.25

4.30

Time-->





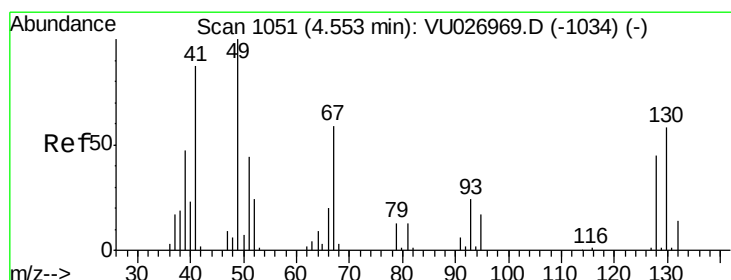
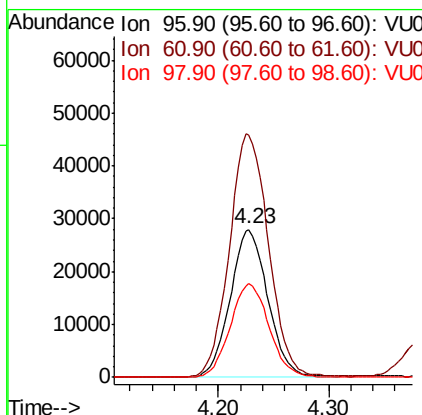
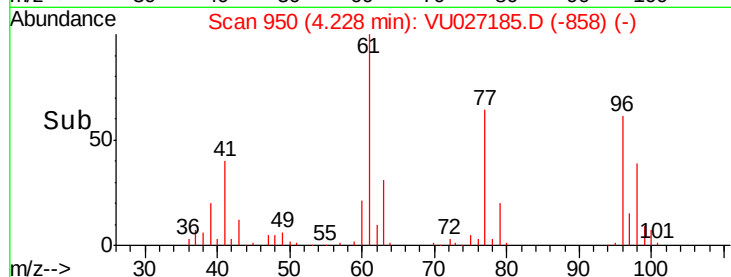
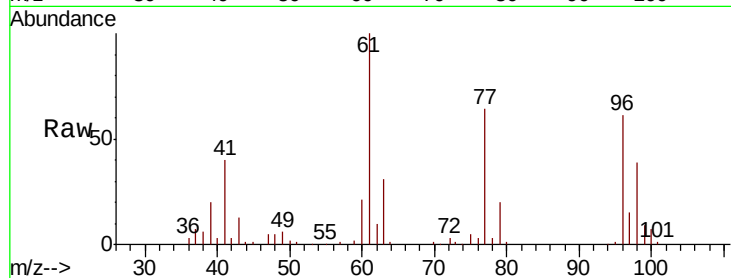
#27
 cis-1,2-Dichloroethene
 Concen: 50.945 ug/l
 RT: 4.23 min Scan# 950
 Delta R.T. -0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-19-092018MS

Tot Ion	Ratio	Lower	Upper
96	100		
61	171.2	0.0	337.2
98	65.1	0.0	127.6

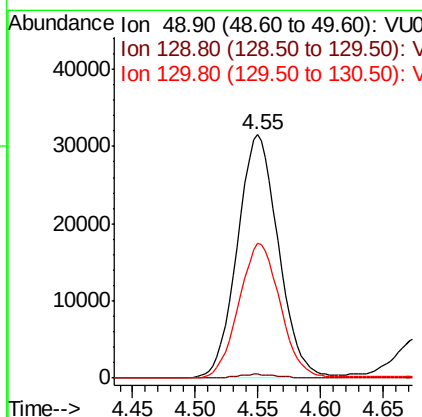
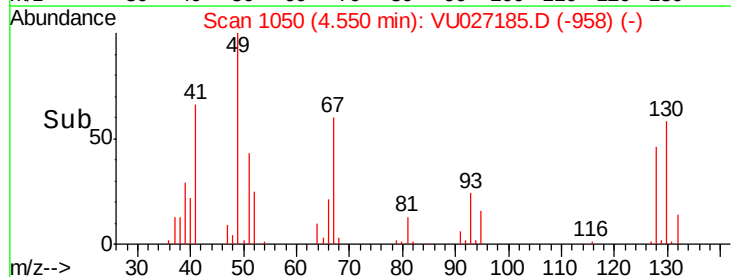
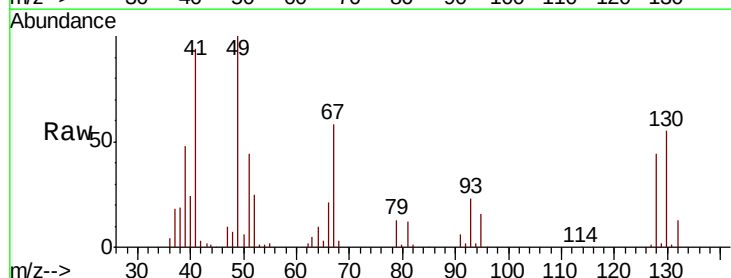
Manual Integrations
 APPROVED

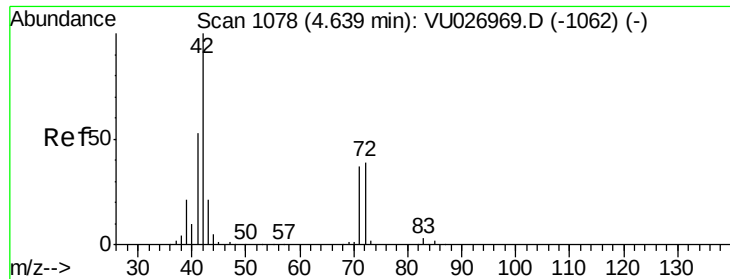
MMDadoda
 9/27/2018 3:33:20 PM



#28
 Bromochloromethane
 Concen: 57.994 ug/l
 RT: 4.55 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	3.0
130	55.9	47.8	71.8





#29

Tetrahydrofuran

Concen: 293.551 ug/l

RT: 4.64 min Scan# 1078

Delta R.T. 0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Instrument :

MSVOA_U

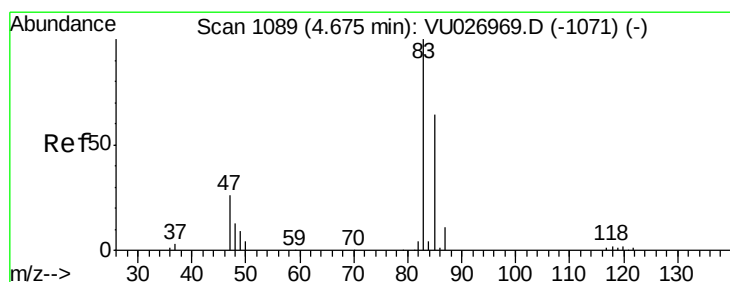
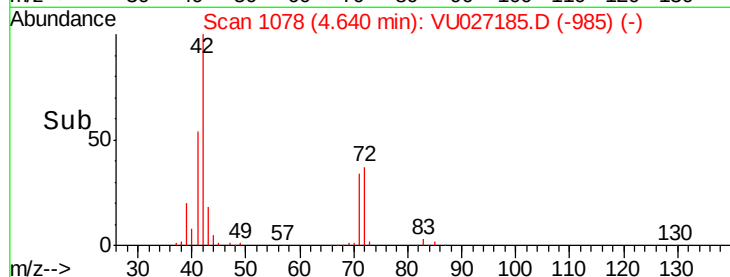
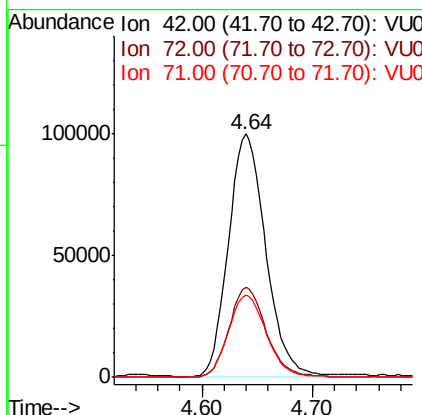
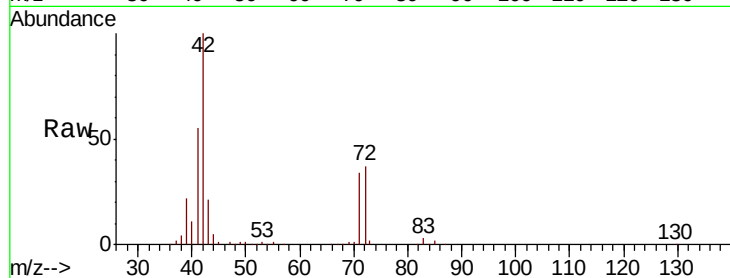
ClientSampleId :

MW-19-092018MS

Tot Ion:	42	Resp:	234275
Ion	Ratio	Lower	Upper
42	100		
72	37.0	31.7	47.5
71	34.8	29.6	44.4

Manual Integrations
APPROVED

MMDadoda
9/27/2018 3:33:20 PM



#30

Chloroform

Concen: 50.335 ug/l

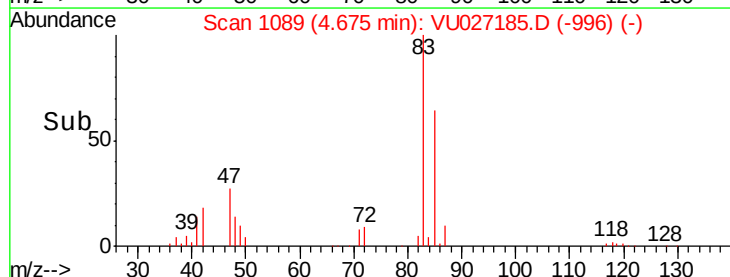
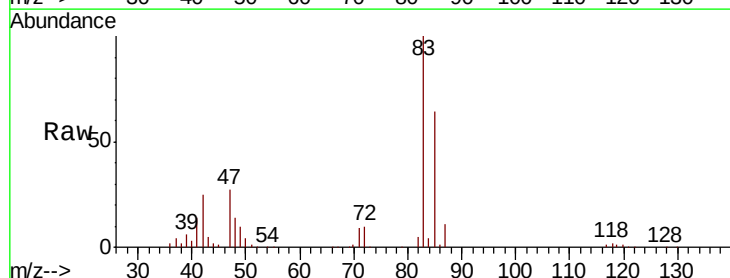
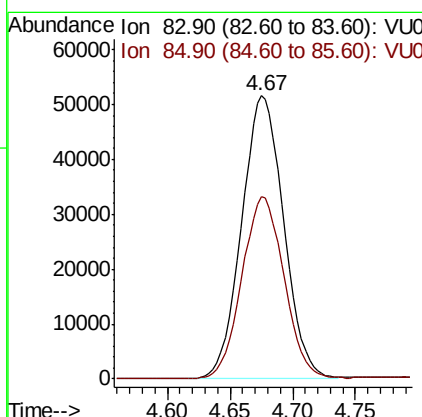
RT: 4.67 min Scan# 1089

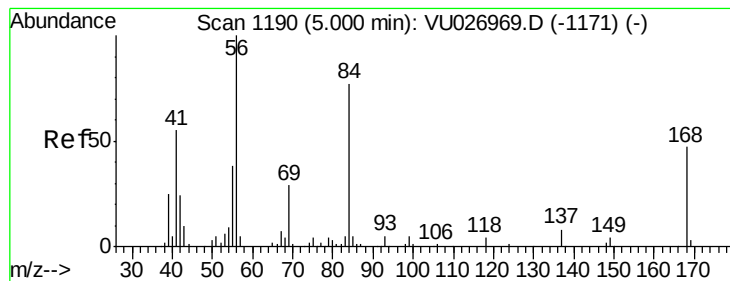
Delta R.T. 0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Tgt Ion:	83	Resp:	120263
Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.5	77.3





#31

Cyclohexane

Concen: 46.558 ug/l

RT: 5.00 min Scan# 1189

Delta R.T. -0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Instrument :

MSVOA_U

ClientSampleId :

MW-19-092018MS

Tot Ion: 56 Resp: 109027

Ion Ratio Lower Upper

56 100

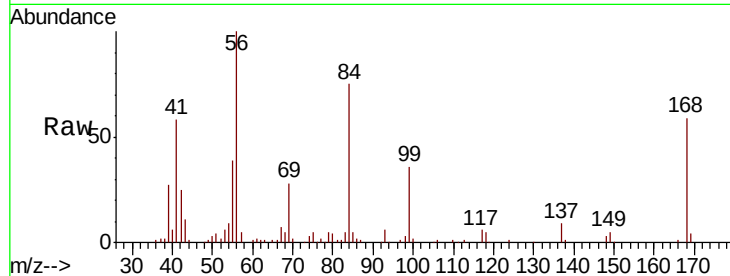
69 27.9 23.0 34.4

84 74.7 61.4 92.2

Manual Integrations
APPROVED

MMDadoda

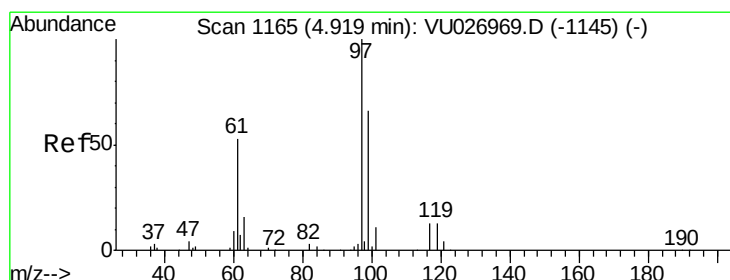
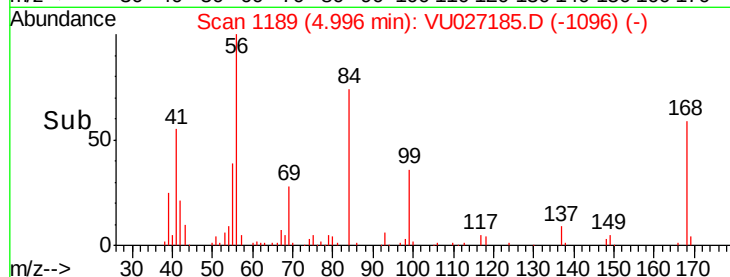
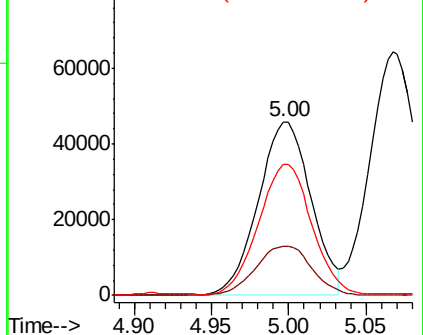
9/27/2018 3:33:20 PM



Abundance Ion 56.00 (55.70 to 56.70): VU026969.D (-1171) (-)

Ion 69.00 (68.70 to 69.70): VU026969.D (-1171) (-)

Ion 84.00 (83.70 to 84.70): VU026969.D (-1171) (-)



#32

1,1,1-Trichloroethane

Concen: 50.759 ug/l

RT: 4.92 min Scan# 1164

Delta R.T. -0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

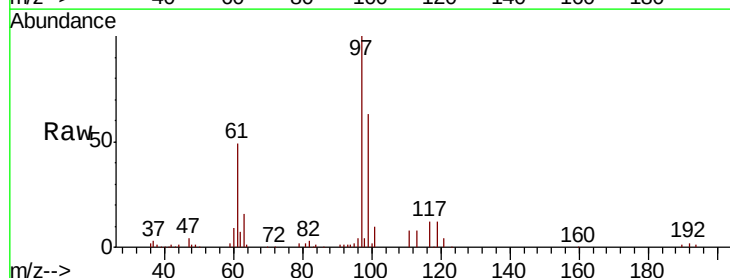
Tgt Ion: 97 Resp: 96828

Ion Ratio Lower Upper

97 100

99 62.6 51.8 77.6

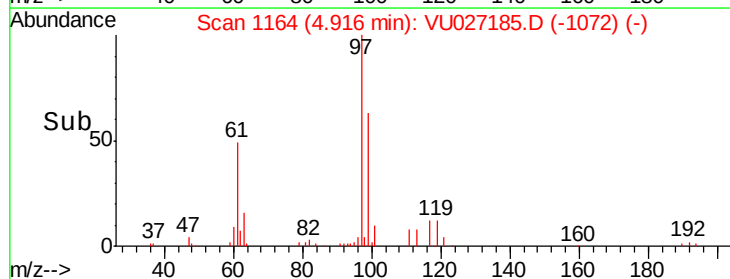
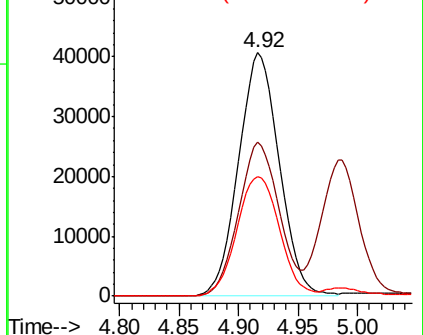
61 51.2 41.1 61.7

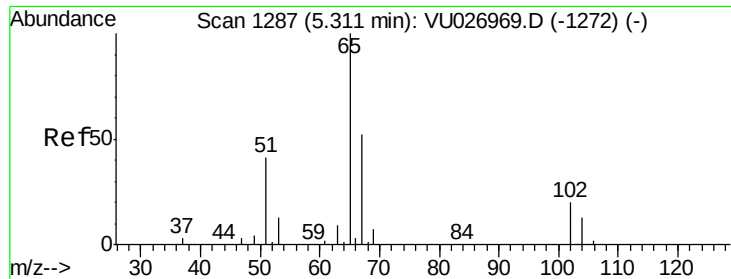


Abundance Ion 96.90 (96.60 to 97.60): VU026969.D (-1145) (-)

Ion 98.90 (98.60 to 99.60): VU026969.D (-1145) (-)

Ion 60.90 (60.60 to 61.60): VU026969.D (-1145) (-)





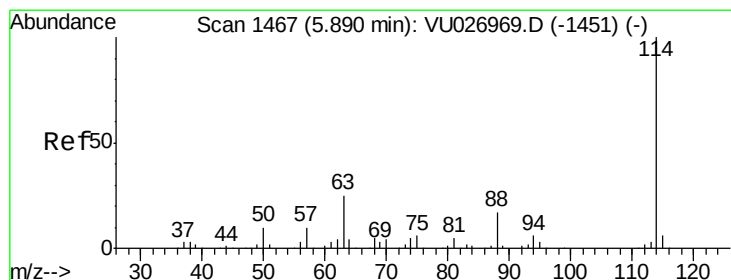
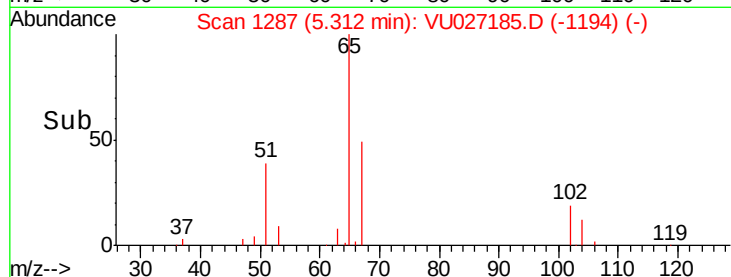
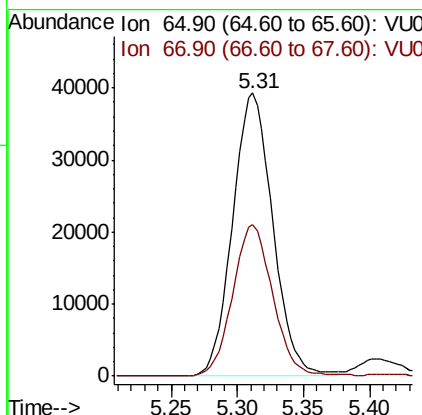
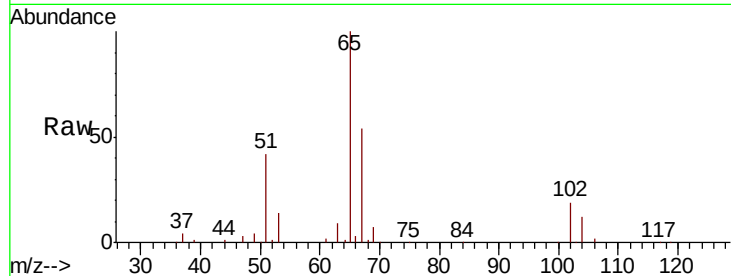
#33
 1,2-Dichloroethane-d4
 Concen: 52.807 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-19-092018MS

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	105.6

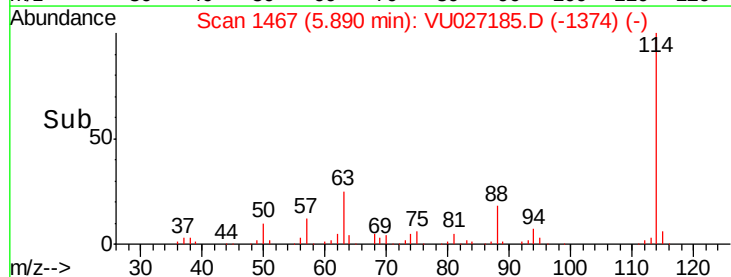
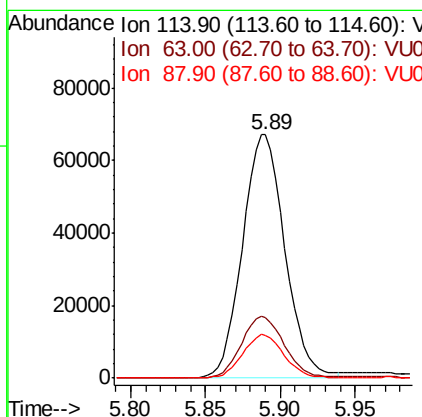
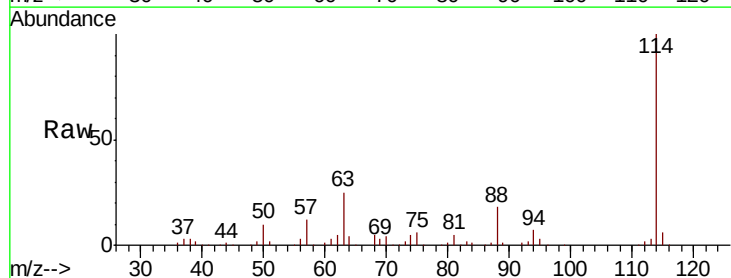
Manual Integrations
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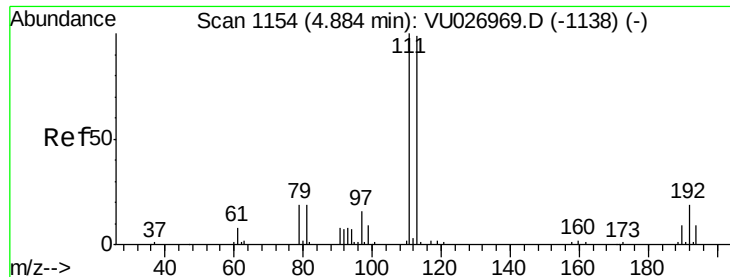
MMDadoda
 9/27/2018 3:33:20 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.7	0.0	49.2
88	17.8	0.0	33.8





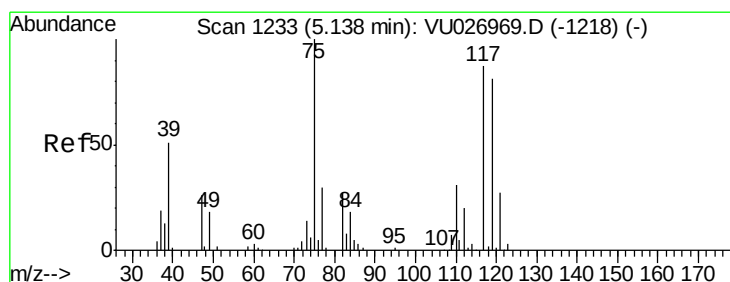
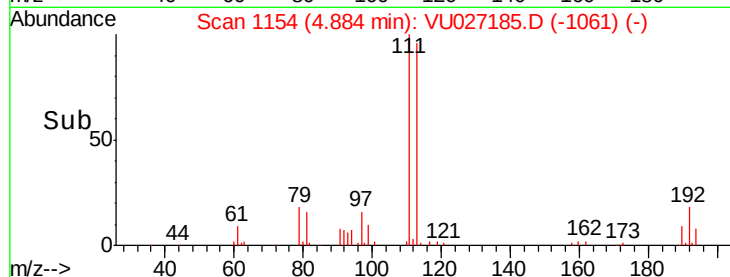
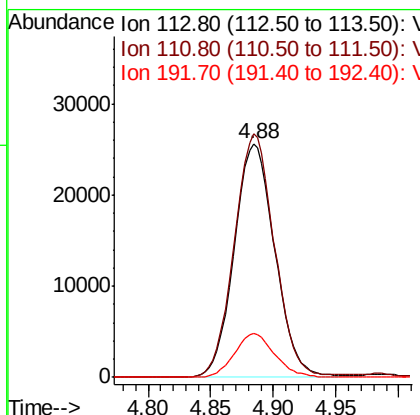
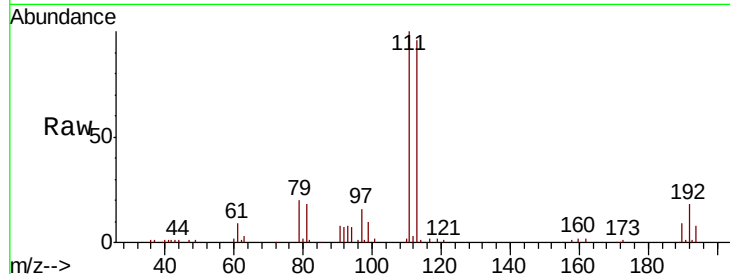
#35
 Dibromofluoromethane
 Concen: 50.270 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-19-092018MS

Tot Ion	Ratio	Resp	Lower	Upper
113	100	57745		
111	103.4		82.2	123.4
192	18.5		15.2	22.8

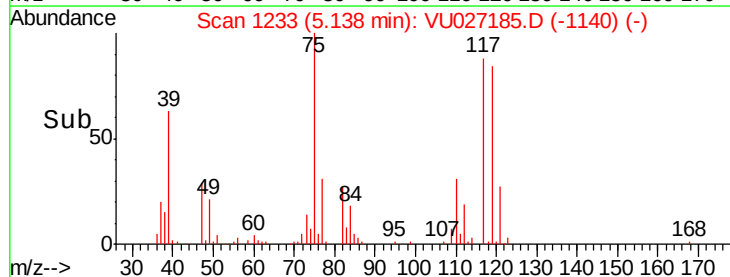
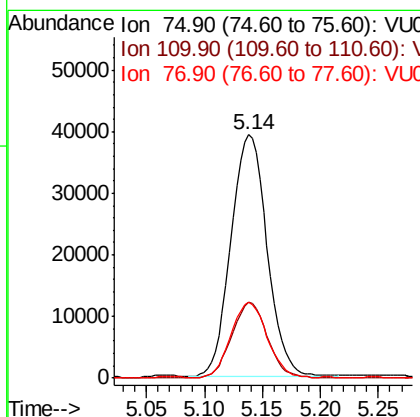
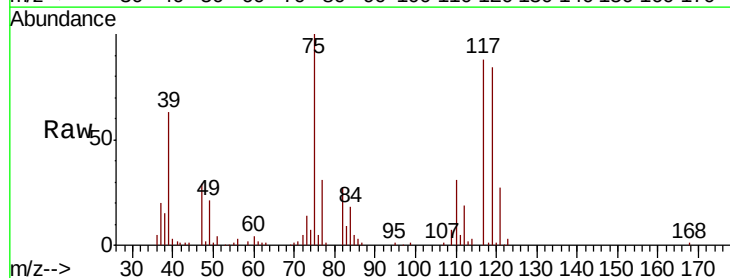
Manual Integrations
 APPROVED

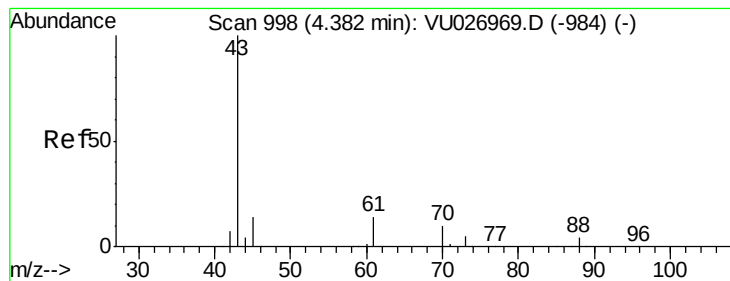
MMDadoda
 9/27/2018 3:33:20 PM



#36
 1,1-Dichloropropene
 Concen: 47.883 ug/l
 RT: 5.14 min Scan# 1233
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	84688		
110	30.9		16.1	48.2
77	30.9		24.6	36.8





#37

Ethyl Acetate

Concen: 50.080 ug/l

RT: 4.38 min Scan# 998

Delta R.T. 0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Instrument :

MSVOA_U

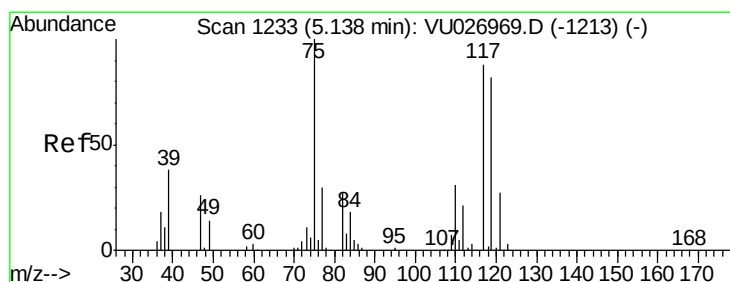
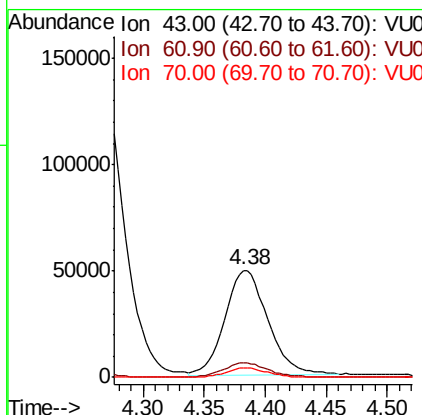
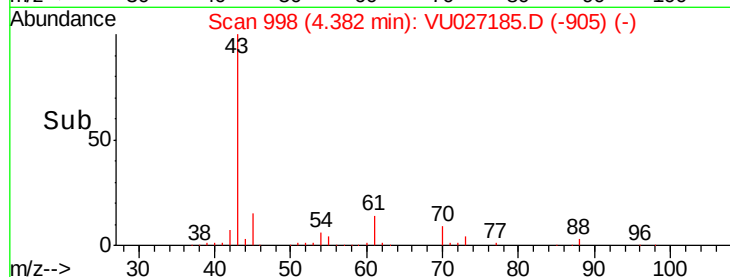
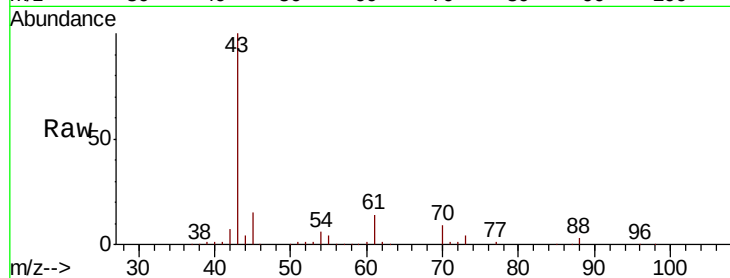
ClientSampleId :

MW-19-092018MS

Tot Ion:	43	Resp:	119906
Ion	Ratio	Lower	Upper
43	100		
61	13.9	10.5	15.7
70	8.7	7.4	11.0

Manual Integrations
APPROVED

MMDadoda
9/27/2018 3:33:20 PM



#38

Carbon Tetrachloride

Concen: 48.588 ug/l

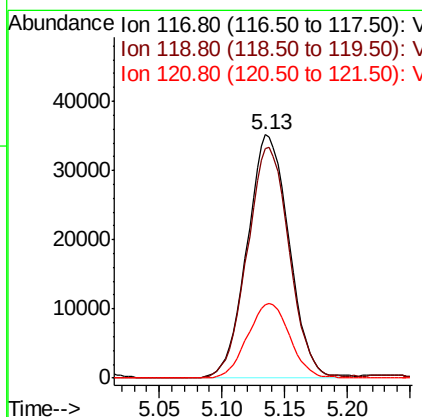
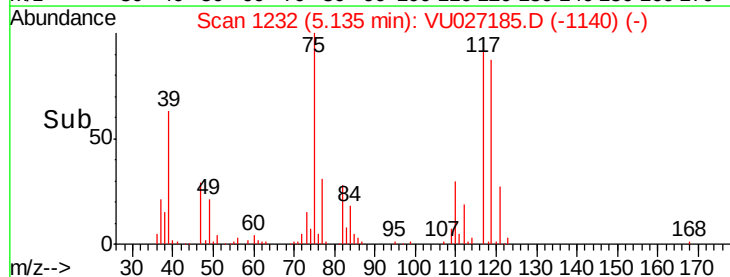
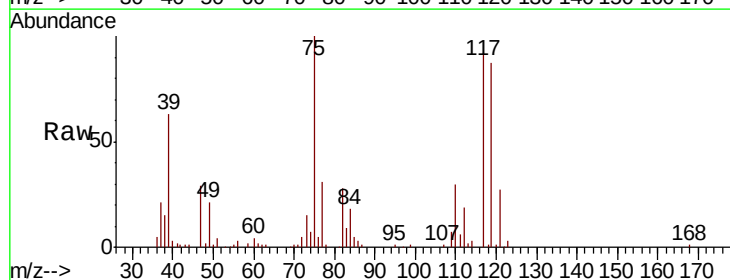
RT: 5.13 min Scan# 1232

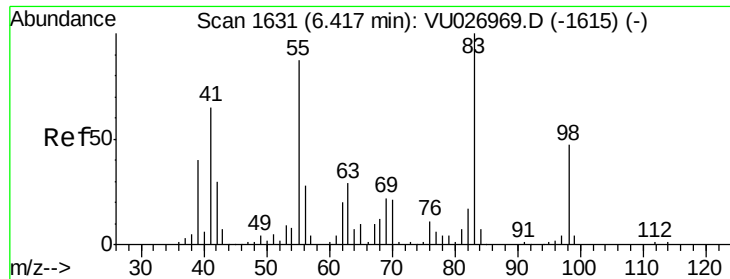
Delta R.T. -0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Tgt Ion:	117	Resp:	81778
Ion	Ratio	Lower	Upper
117	100		
119	94.4	74.4	111.6
121	29.9	24.2	36.4





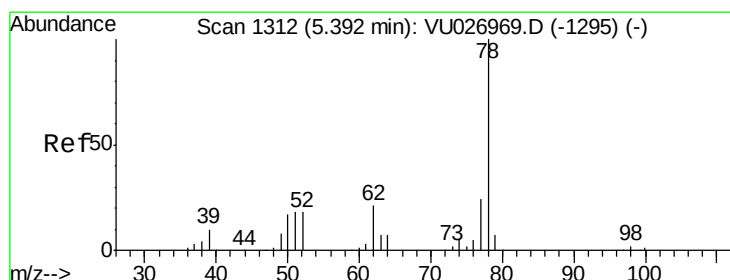
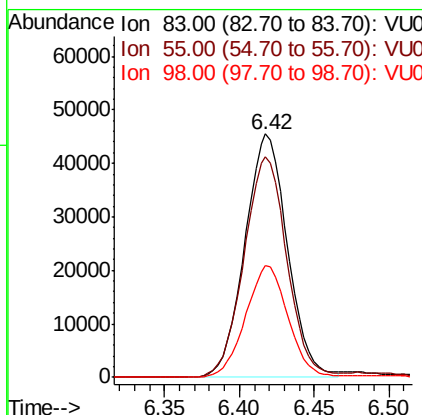
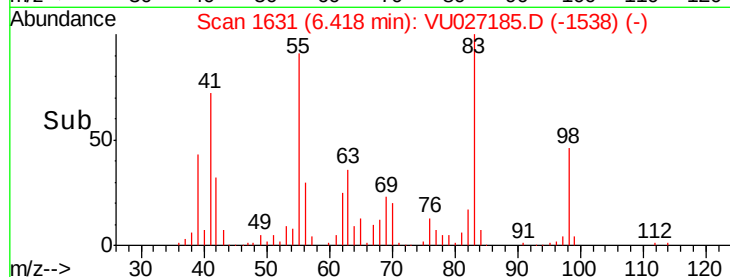
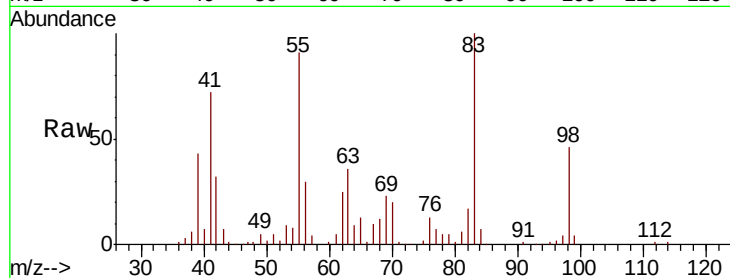
#39
Methylvlcyclohexane
Concen: 46.955 ug/l
RT: 6.42 min Scan# 1631
Delta R.T. 0.00 min
Lab File: VU027185.D
Acq: 26 Sep 2018 18:10

Instrument :
MSVOA_U
ClientSampleId :
MW-19-092018MS

Tot Ion	Ratio	Lower	Upper
83	100		
55	90.7	69.9	104.9
98	46.0	37.5	56.3

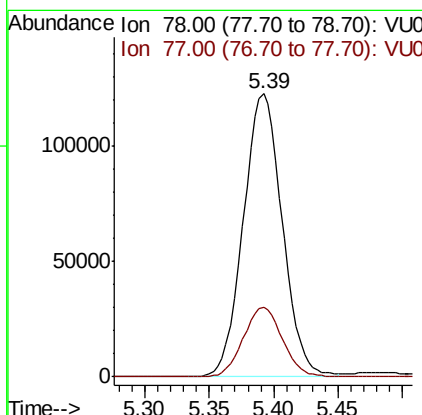
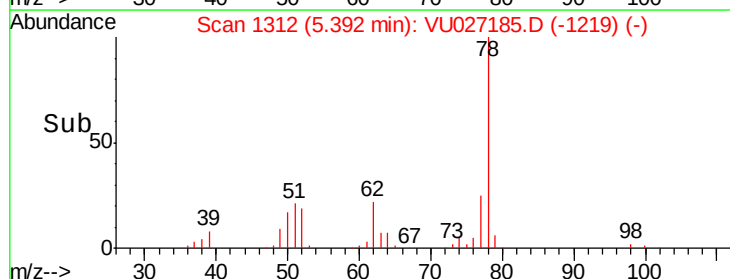
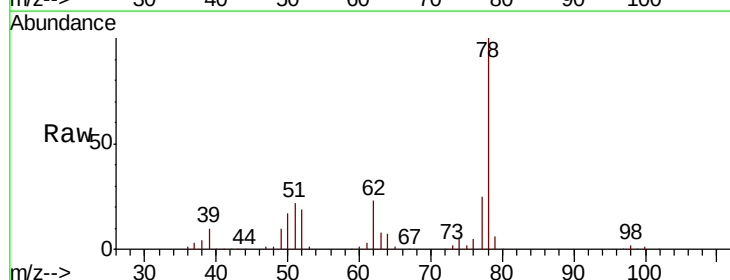
Manual Integrations
APPROVED

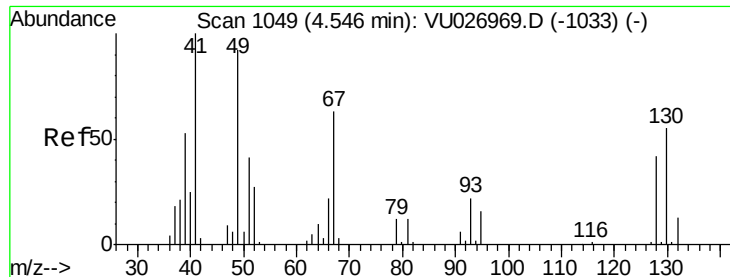
MMDadoda
9/27/2018 3:33:20 PM



#40
Benzene
Concen: 48.160 ug/l
RT: 5.39 min Scan# 1312
Delta R.T. 0.00 min
Lab File: VU027185.D
Acq: 26 Sep 2018 18:10

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.8	19.4	29.0





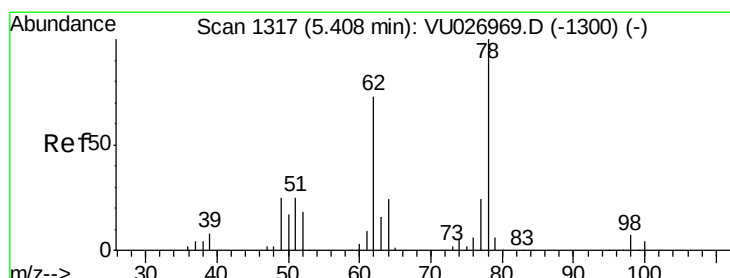
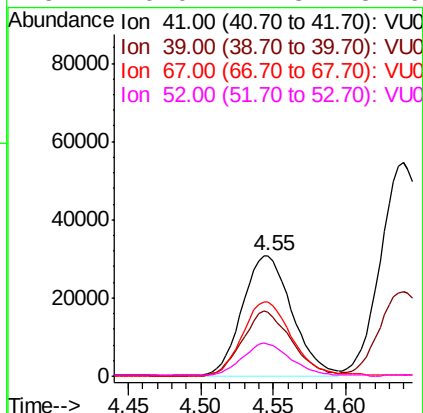
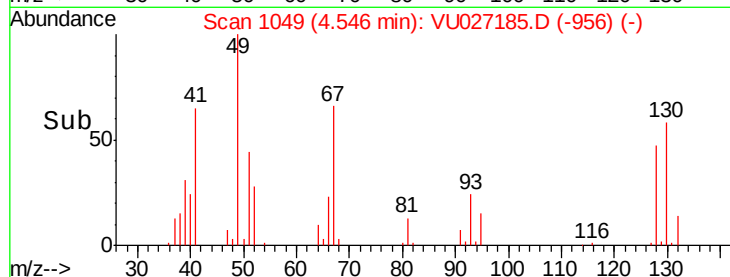
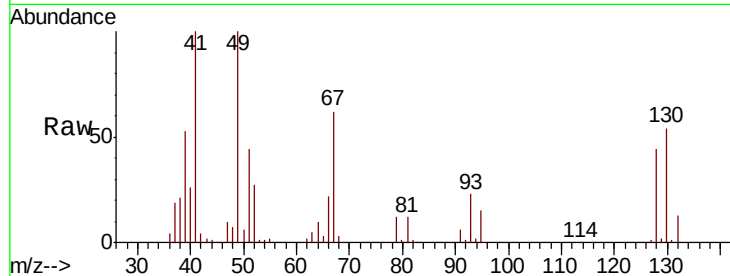
#41
Methacrylonitrile
Concen: 59.412 ug/l
RT: 4.55 min Scan# 1049
Delta R.T. 0.00 min
Lab File: VU027185.D
Acq: 26 Sep 2018 18:10

Instrument :
MSVOA_U
ClientSampleId :
MW-19-092018MS

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	52.0	42.9	64.3	
67	61.6	52.4	78.6	
52	26.0	21.3	31.9	

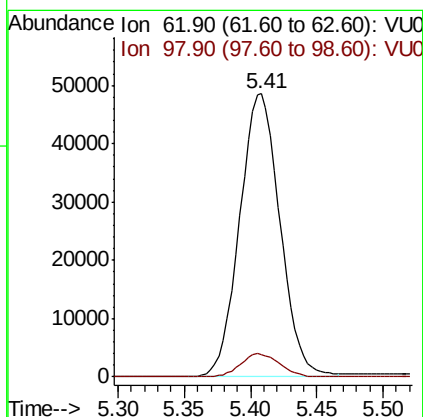
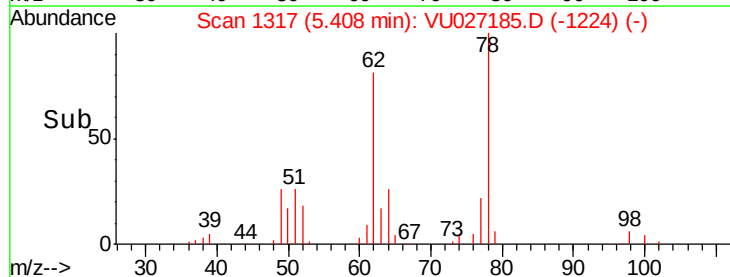
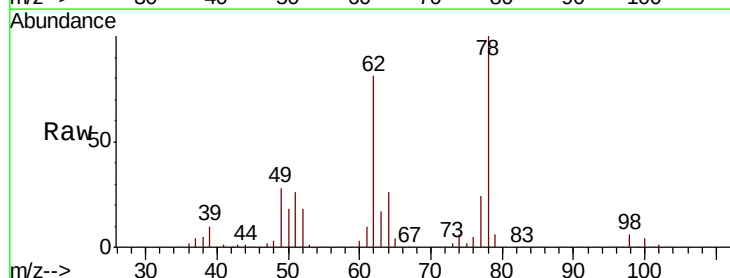
Manual Integrations
APPROVED

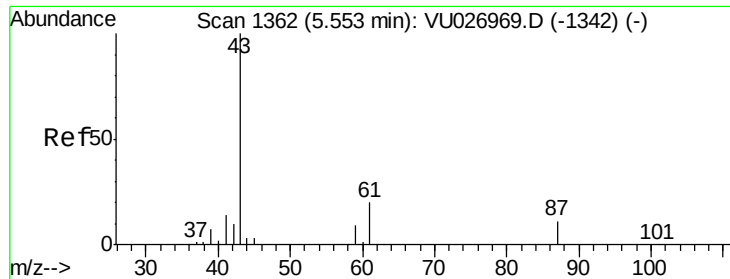
MMDadoda
9/27/2018 3:33:20 PM



#42
1,2-Dichloroethane
Concen: 50.680 ug/l
RT: 5.41 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VU027185.D
Acq: 26 Sep 2018 18:10

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.0	0.0	17.0	





#43

Isopropyl Acetate

Concen: 54.758 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Instrument :

MSVOA_U

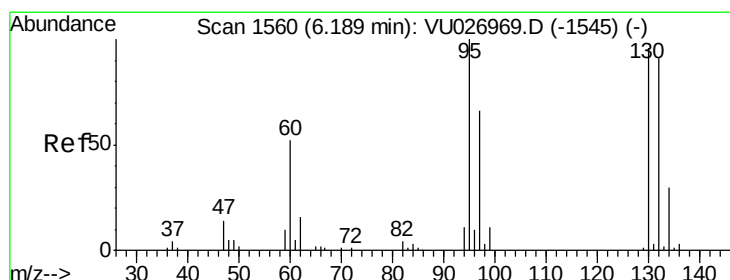
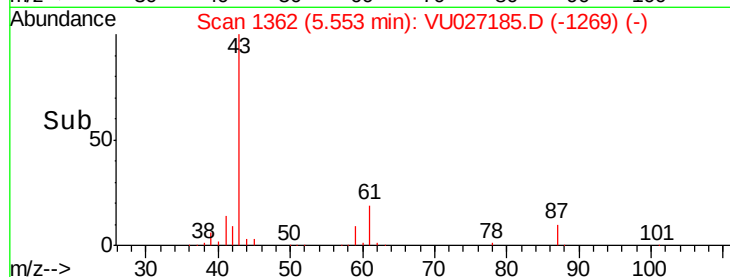
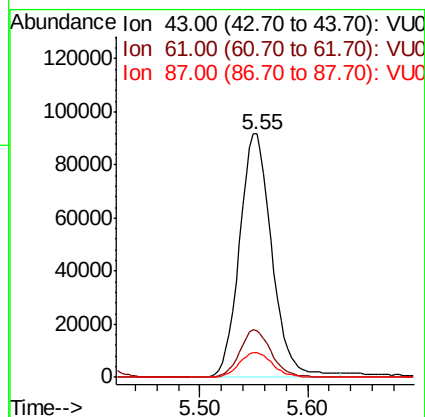
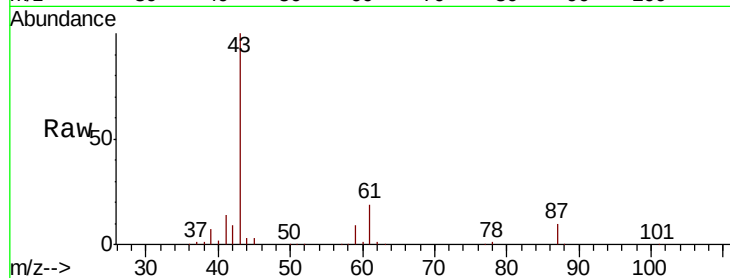
ClientSampleId :

MW-19-092018MS

Tot Ion:	43	Resp:	191200
Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.7	23.5
87	10.5	9.0	13.4

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#44

Trichloroethene

Concen: 47.145 ug/l

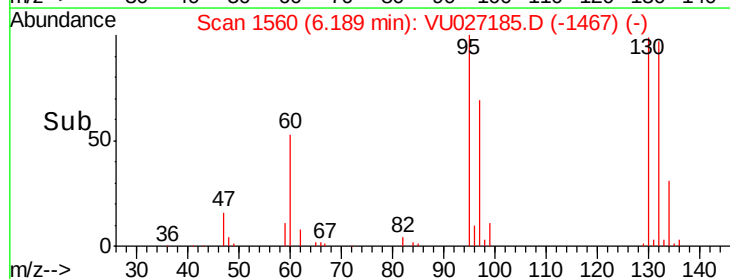
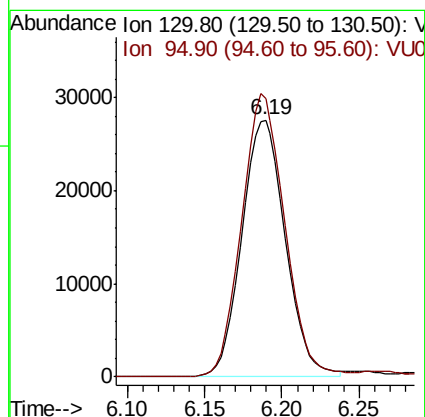
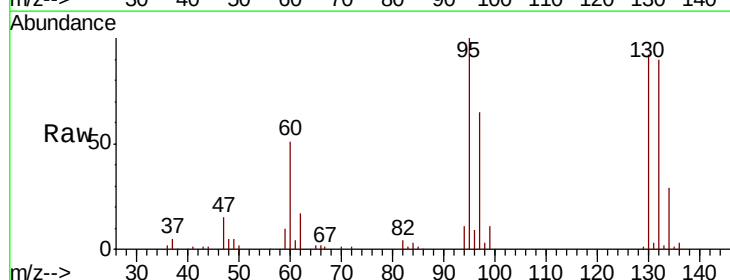
RT: 6.19 min Scan# 1560

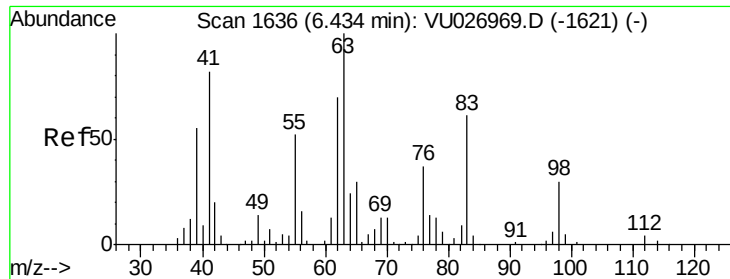
Delta R.T. 0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Tgt Ion:	130	Resp:	53964
Ion	Ratio	Lower	Upper
130	100		
95	108.1	0.0	208.8





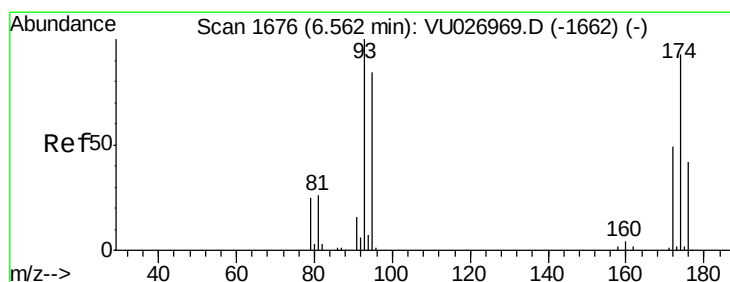
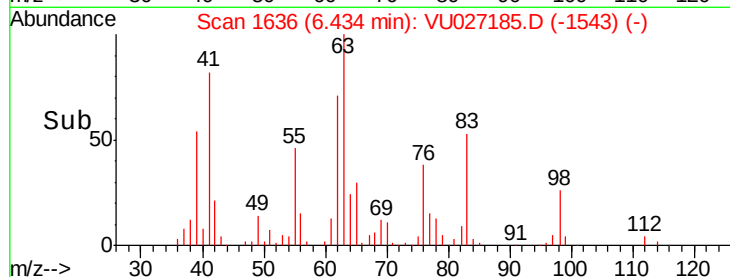
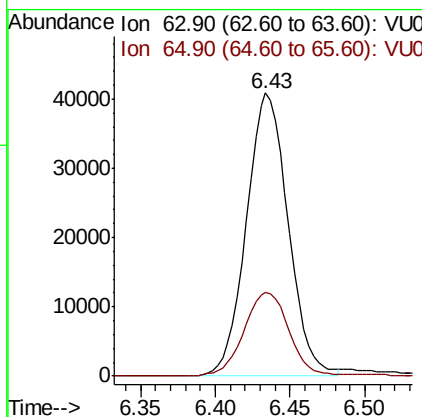
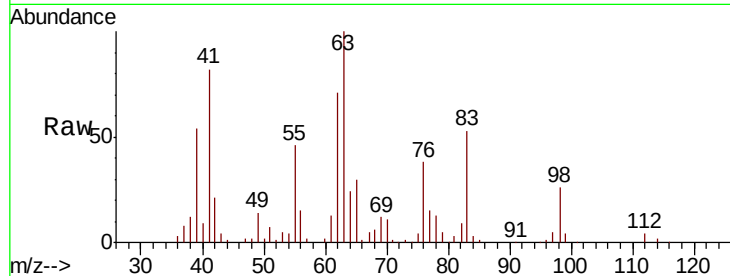
#45
 1,2-Dichloropropane
 Concen: 51.870 ug/l
 RT: 6.43 min Scan# 1636
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-19-092018MS

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.5	24.3	36.5

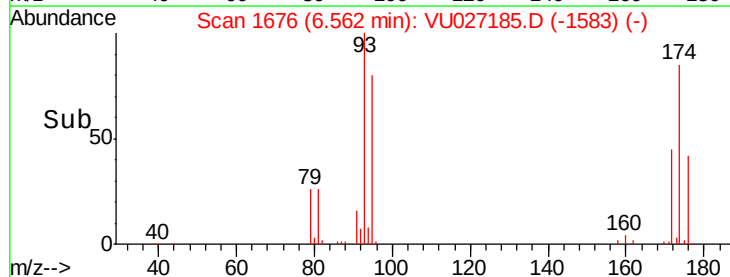
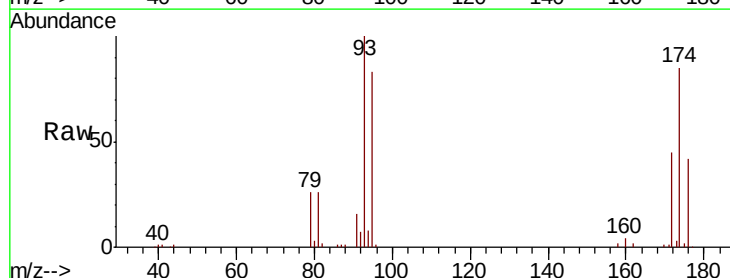
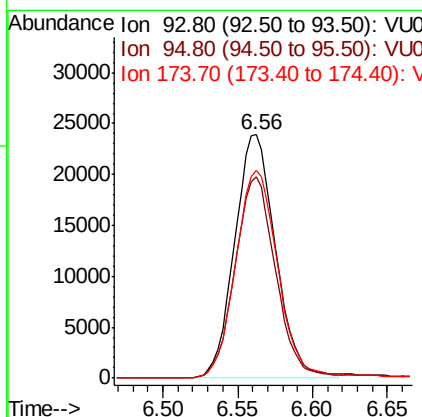
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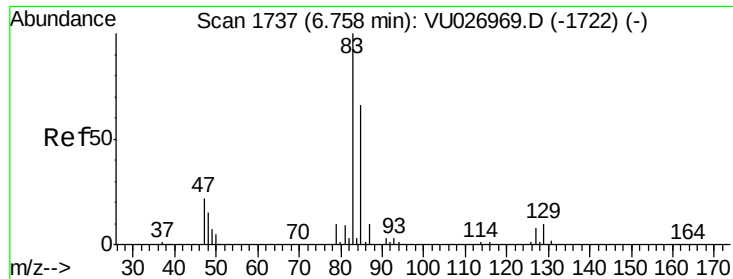
MMDadoda
 9/27/2018 3:33:20 PM



#46
 Dibromomethane
 Concen: 49.216 ug/l
 RT: 6.56 min Scan# 1676
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Tgt Ion	Ratio	Lower	Upper
93	100		
95	81.9	66.2	99.4
174	88.8	71.7	107.5





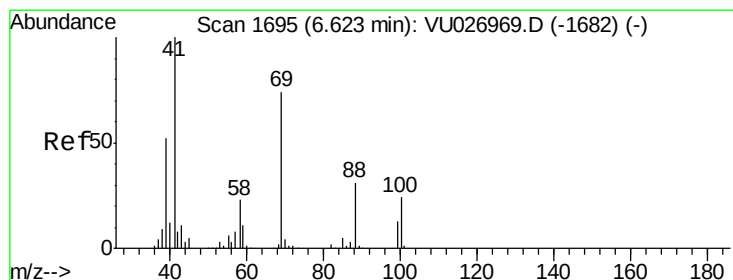
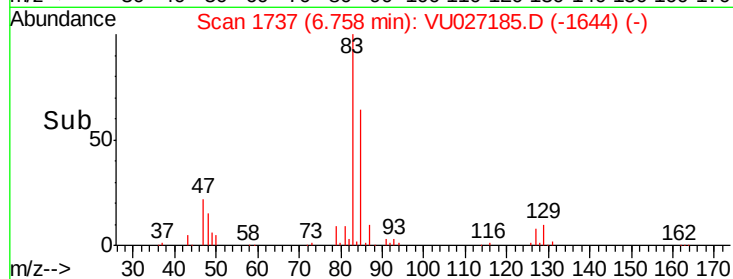
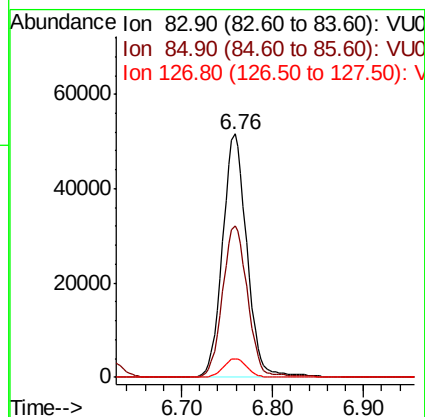
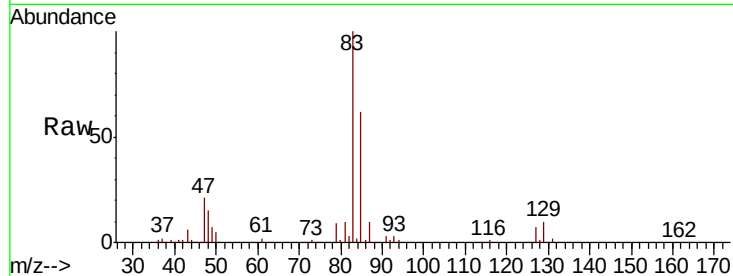
#47
Bromodichloromethane
Concen: 51.476 ug/l
RT: 6.76 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VU027185.D
Acq: 26 Sep 2018 18:10

Instrument :
MSVOA_U
ClientSampleId :
MW-19-092018MS

Tot Ion	83	Resp	96305
Ion Ratio	100	Lower	Upper
83	100		
85	62.4	52.5	78.7
127	7.5	6.3	9.5

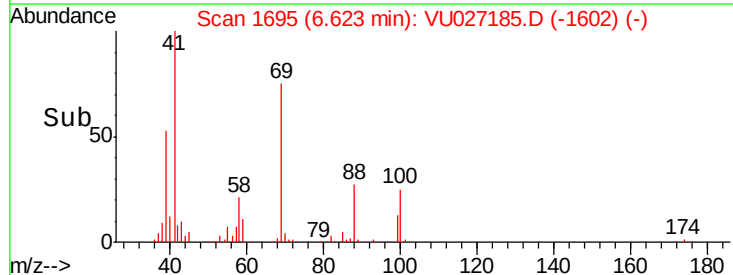
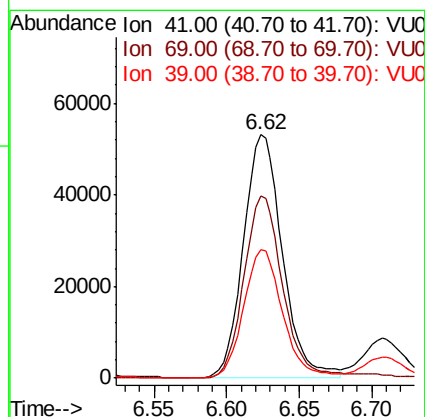
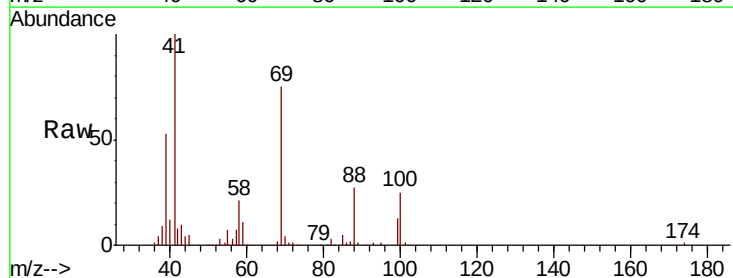
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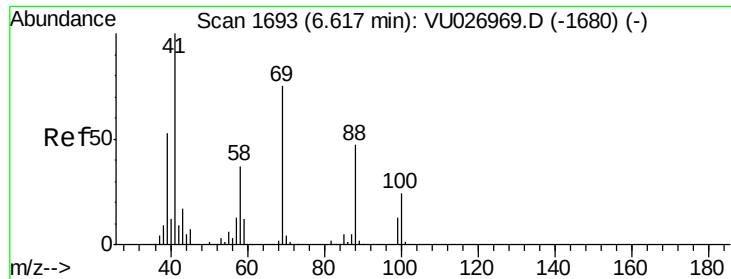
MMDadoda
9/27/2018 3:33:20 PM



#48
Methyl methacrylate
Concen: 52.035 ug/l
RT: 6.62 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VU027185.D
Acq: 26 Sep 2018 18:10

Tgt Ion	41	Resp	98971
Ion Ratio	100	Lower	Upper
41	100		
69	76.9	60.6	90.8
39	53.2	42.8	64.2





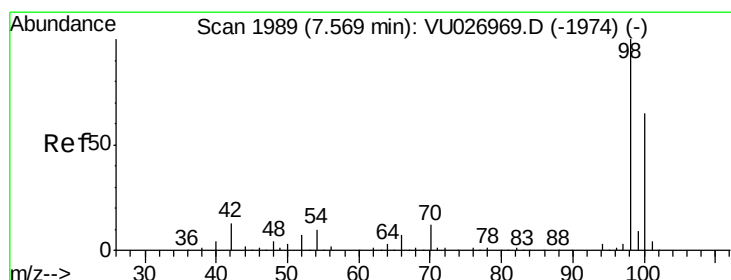
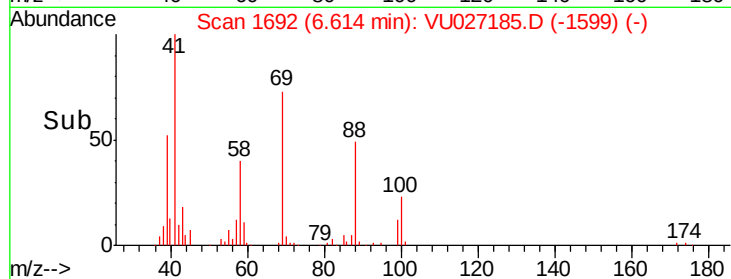
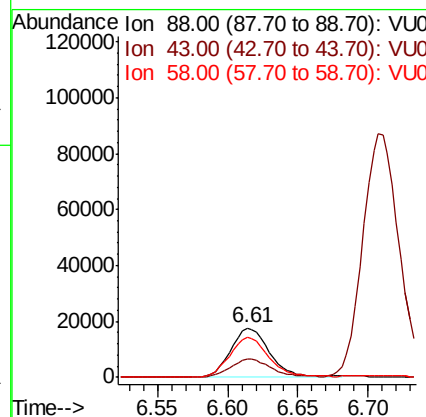
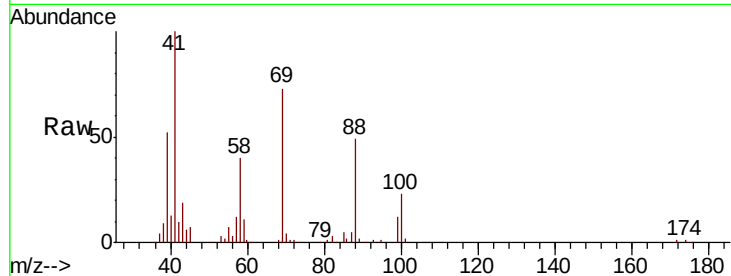
#49
1,4-Dioxane
Concen: 909.680 ug/l
RT: 6.61 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VU027185.D
Acq: 26 Sep 2018 18:10

Instrument :
MSVOA_U
ClientSampleId :
MW-19-092018MS

Tot Ion	Ratio	Lower	Upper
88	100		
43	39.8	29.8	44.8
58	81.9	63.9	95.9

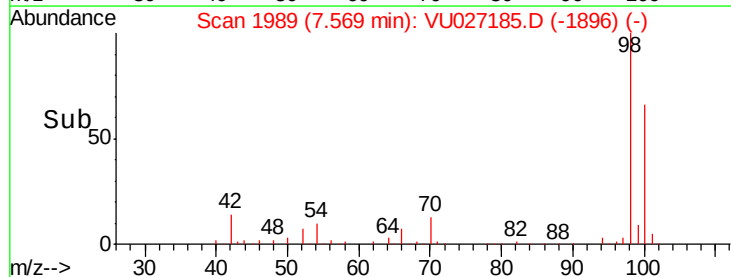
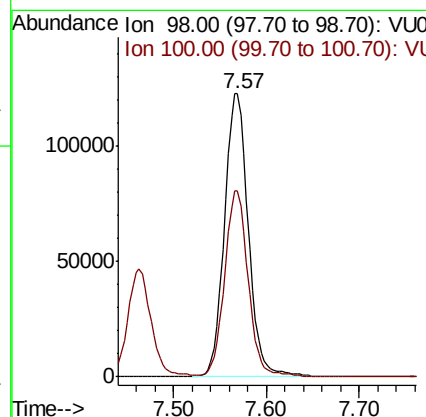
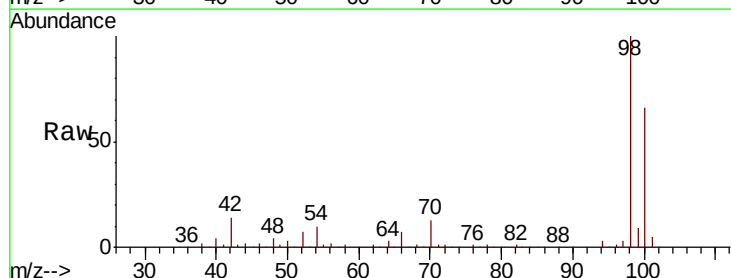
Manual Integrations
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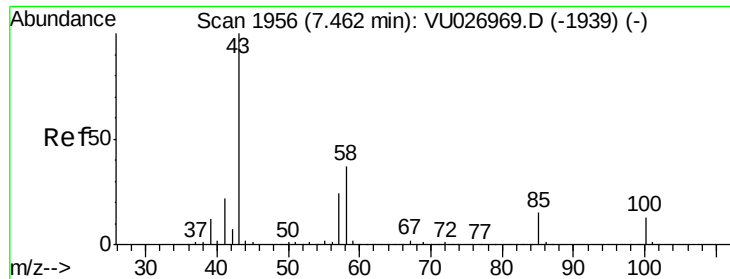
MMDadoda
9/27/2018 3:33:20 PM



#50
Toluene-d8
Concen: 50.096 ug/l
RT: 7.57 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VU027185.D
Acq: 26 Sep 2018 18:10

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.1	78.1





#51

4-Methyl-2-Pentanone

Concen: 296.948 ug/l

RT: 7.46 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Instrument :

MSVOA_U

ClientSampleId :

MW-19-092018MS

Tot Ion: 43 Resp: 697358

Ion Ratio Lower Upper

43 100

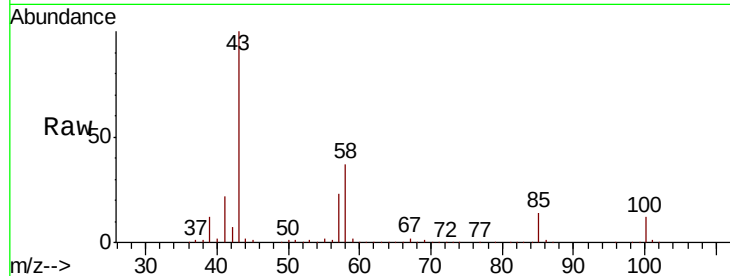
58 36.7 29.8 44.6

Manual Integrations

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MMDadoda

9/27/2018 3:33:20 PM



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

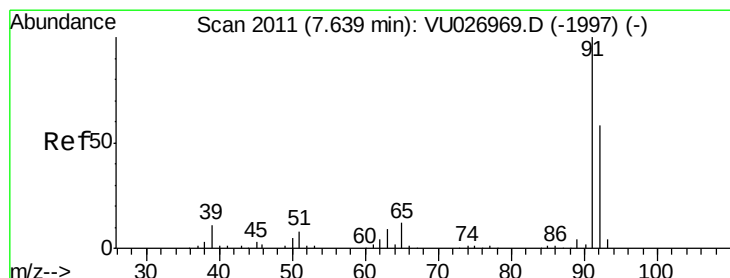
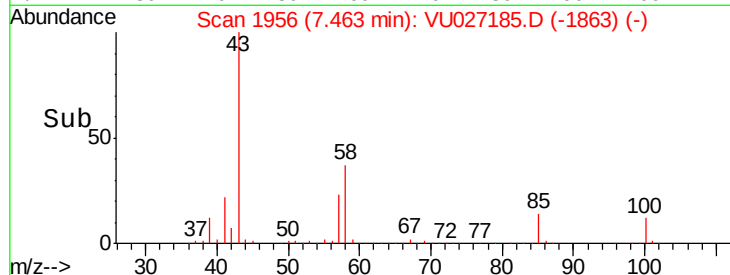
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 50.775 ug/l

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU027185.D

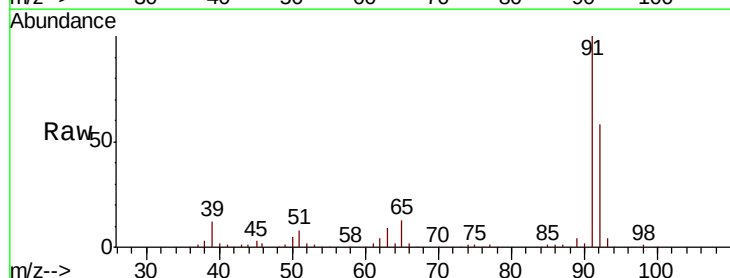
Acq: 26 Sep 2018 18:10

Tgt Ion: 92 Resp: 156484

Ion Ratio Lower Upper

92 100

91 173.0 136.4 204.6



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

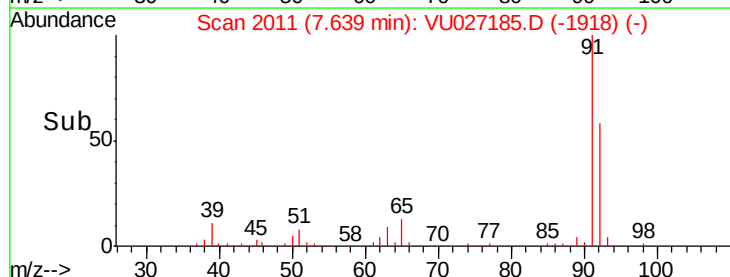
150000

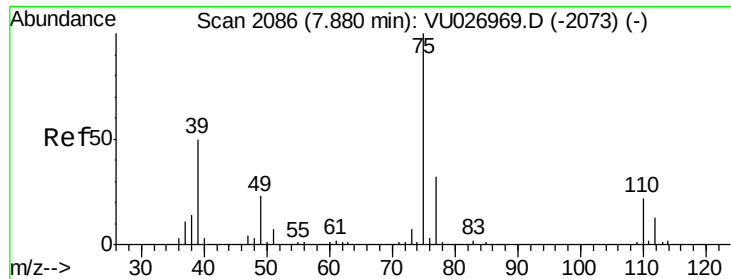
100000

50000

0

Time-->





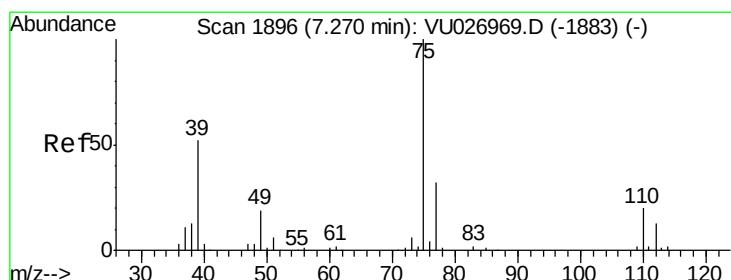
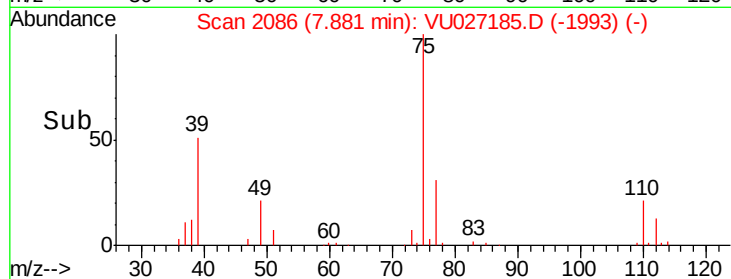
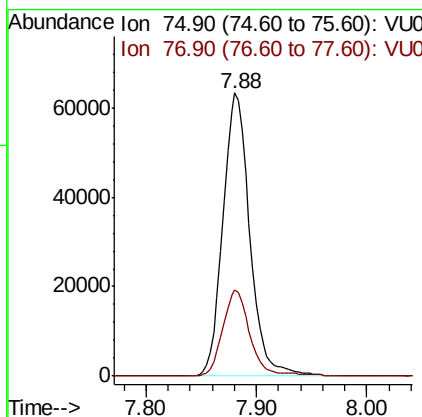
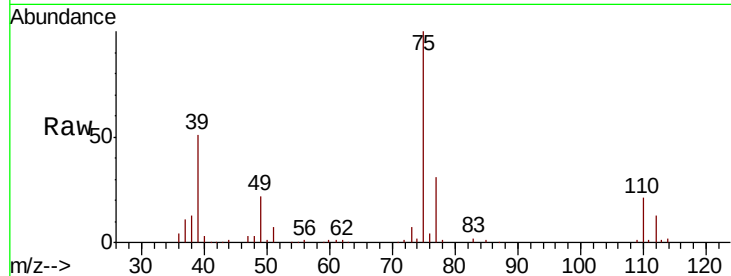
#53
t-1,3-Dichloropropene
Concen: 53.352 ug/l
RT: 7.88 min Scan# 2086
Delta R.T. 0.00 min
Lab File: VU027185.D
Acq: 26 Sep 2018 18:10

Instrument :
MSVOA_U
ClientSampleId :
MW-19-092018MS

Tot Ion: 75 Resp: 107244
Ion Ratio Lower Upper
75 100
77 30.6 25.3 37.9

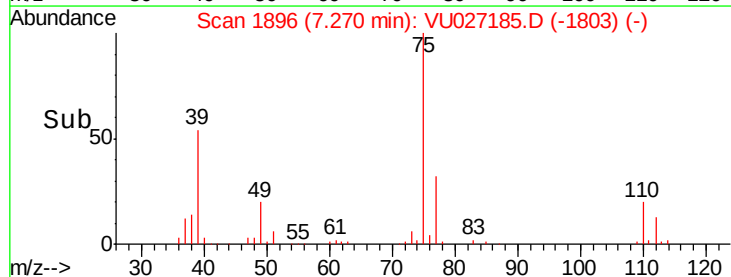
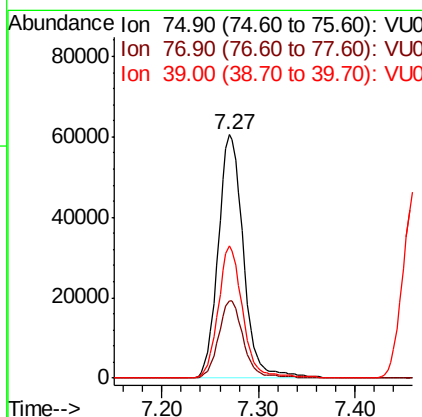
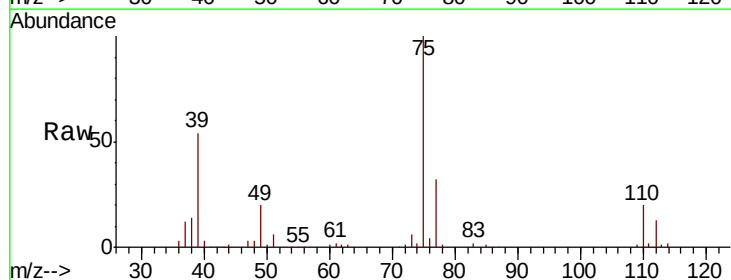
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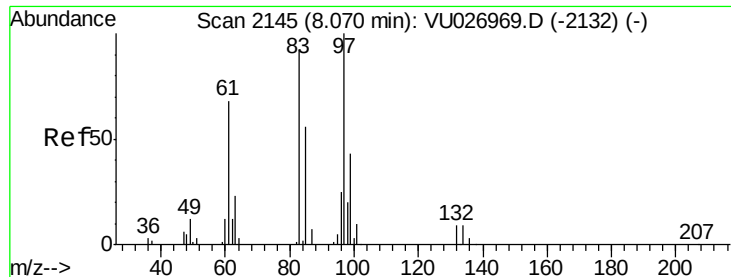
MMDadoda
9/27/2018 3:33:20 PM



#54
cis-1,3-Dichloropropene
Concen: 49.638 ug/l
RT: 7.27 min Scan# 1896
Delta R.T. 0.00 min
Lab File: VU027185.D
Acq: 26 Sep 2018 18:10

Tgt Ion: 75 Resp: 109709
Ion Ratio Lower Upper
75 100
77 31.6 25.4 38.0
39 54.3 41.6 62.4





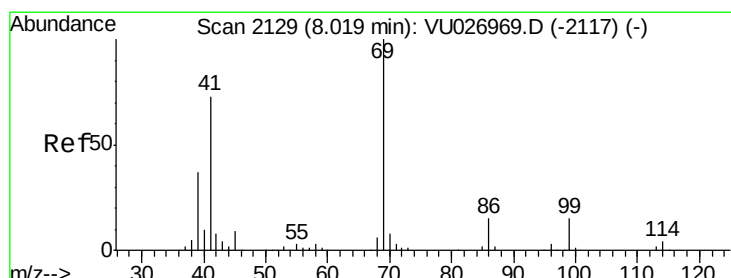
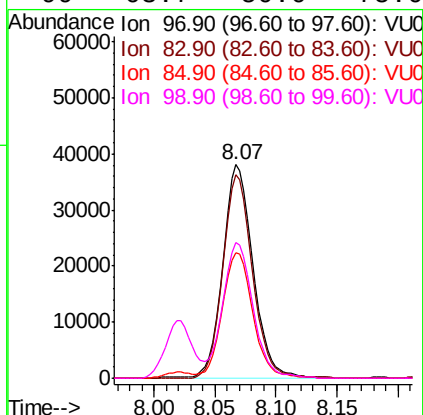
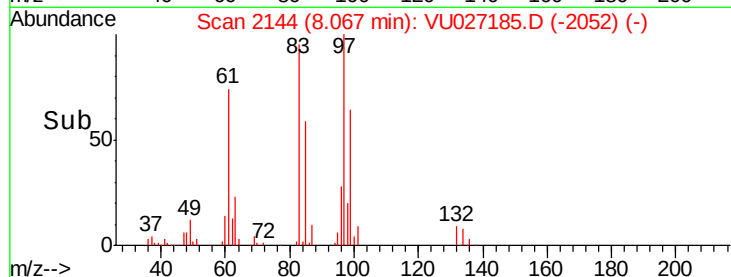
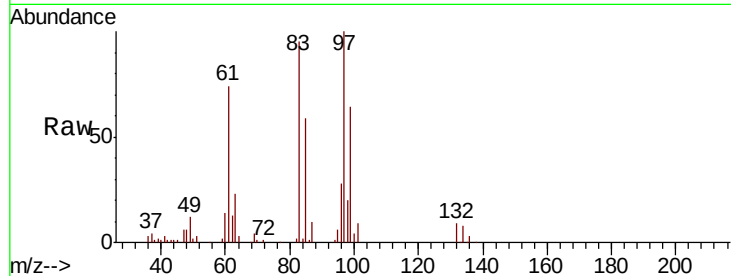
#55
 1,1,2-Trichloroethane
 Concen: 50.788 ug/l
 RT: 8.07 min Scan# 2144
 Delta R.T. -0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-19-092018MS

Tot Ion:	97	Resp:	66323
Ion	Ratio	Lower	Upper
97	100		
83	95.3	73.1	109.7
85	58.8	46.7	70.1
99	63.7	50.0	75.0

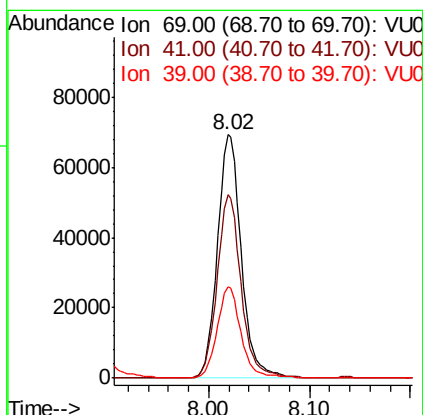
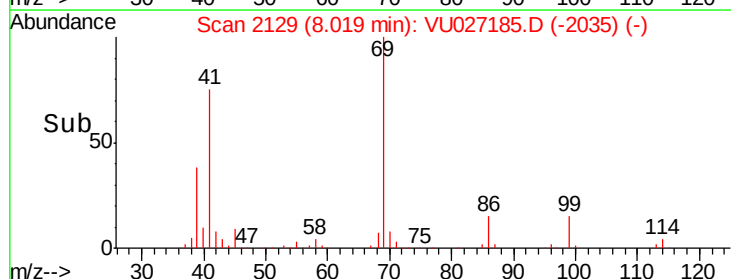
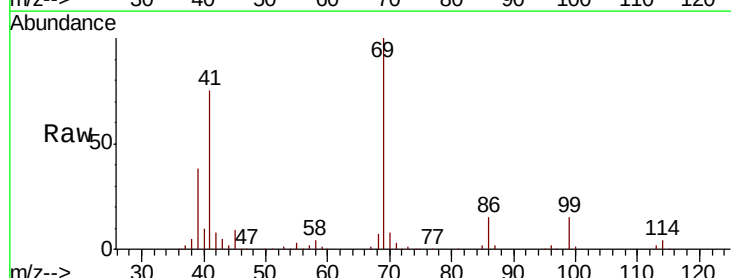
Manual Integrations
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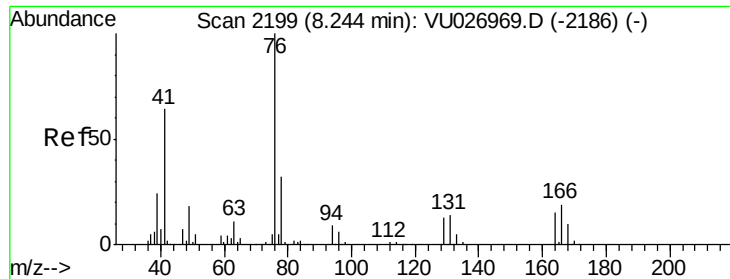
MMDadoda
 9/27/2018 3:33:20 PM



#56
 Ethyl methacrylate
 Concen: 50.497 ug/l
 RT: 8.02 min Scan# 2129
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Tgt Ion:	69	Resp:	114470
Ion	Ratio	Lower	Upper
69	100		
41	76.0	59.0	88.4
39	36.8	30.2	45.4





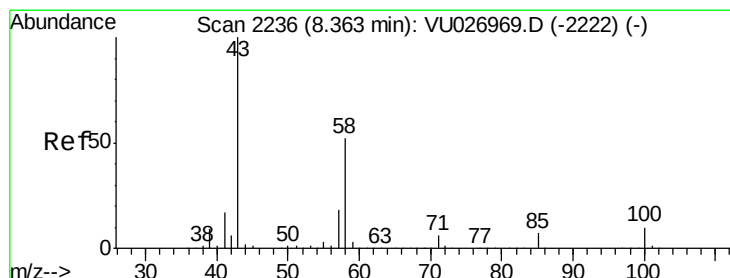
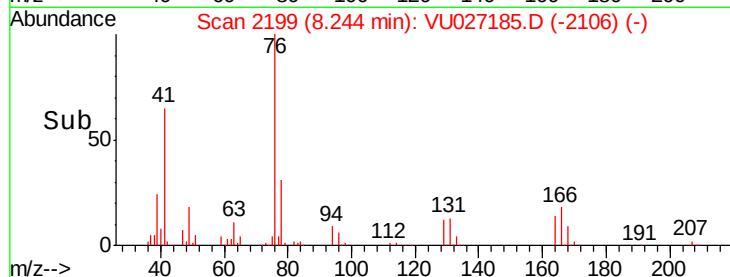
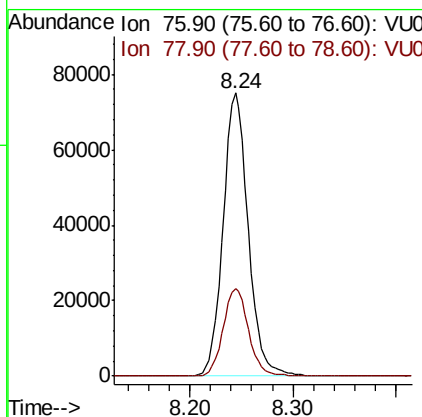
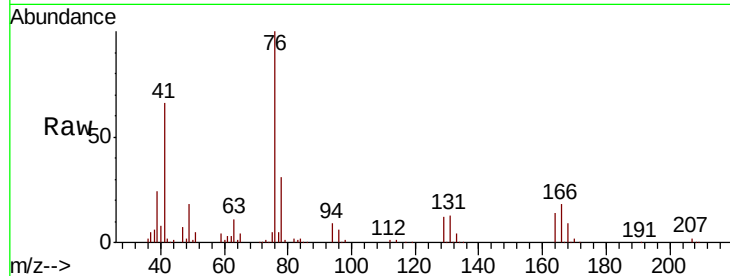
#57
 1,3-Dichloropropane
 Concen: 52.258 ug/l
 RT: 8.24 min Scan# 2199
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-19-092018MS

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.4	25.5	38.3

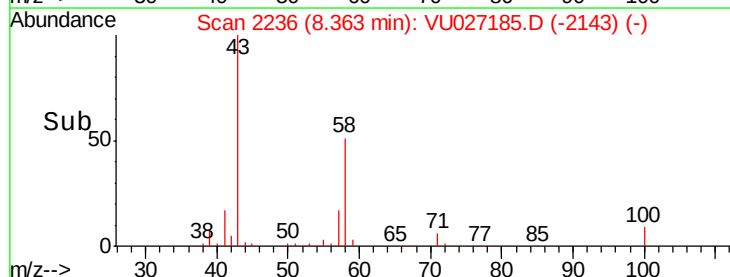
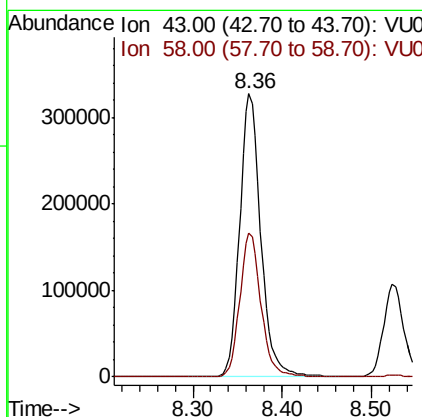
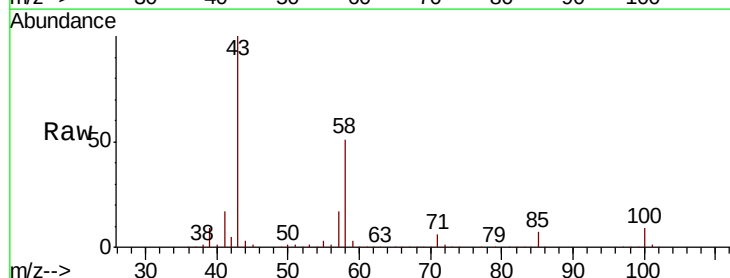
Manual Integrations
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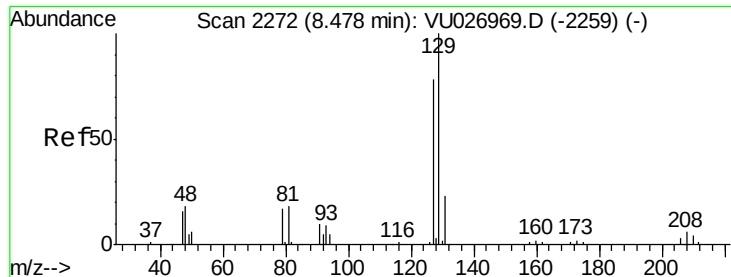
MMDadoda
 9/27/2018 3:33:20 PM



#59
 2-Hexanone
 Concen: 292.049 ug/l
 RT: 8.36 min Scan# 2236
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Tgt Ion	Ratio	Lower	Upper
43	100		
58	51.1	26.1	78.2





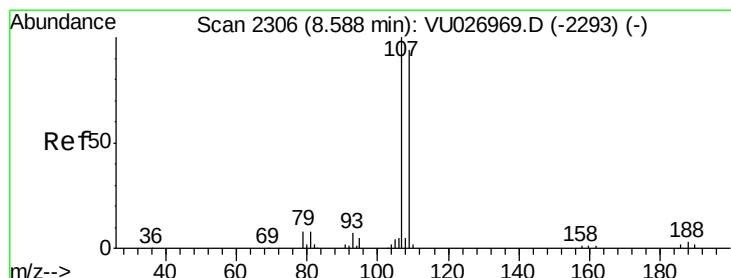
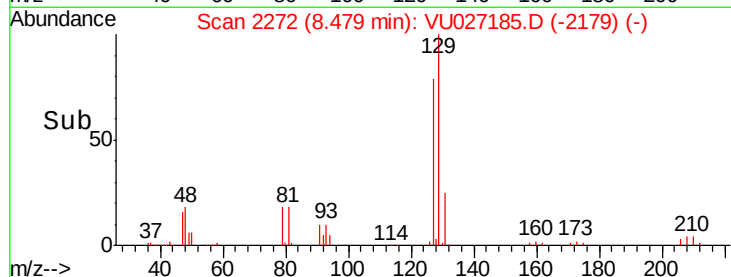
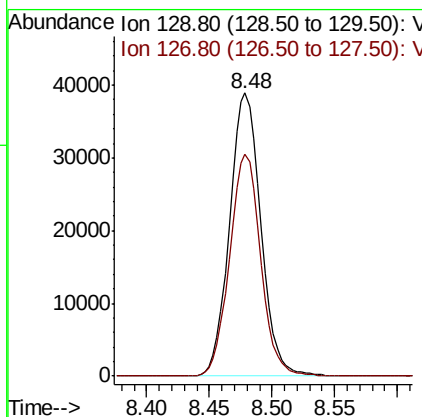
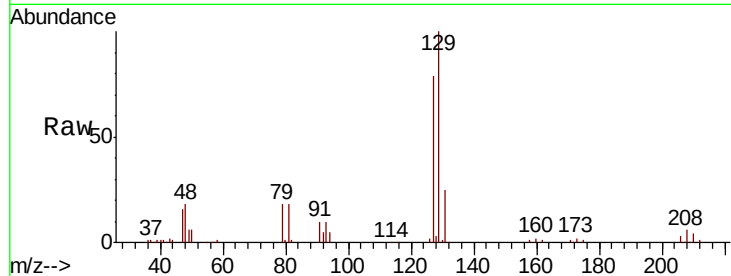
#60
 Dibromochloromethane
 Concen: 52.617 ug/l
 RT: 8.48 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-19-092018MS

Tot Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.1	114.5

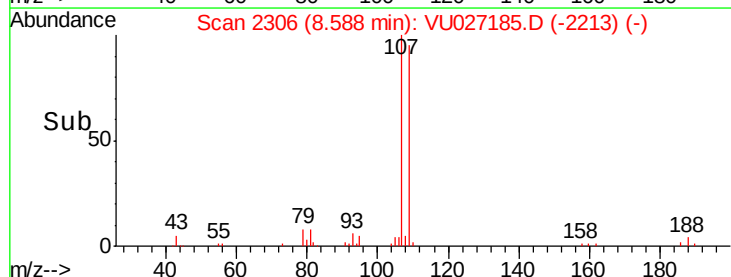
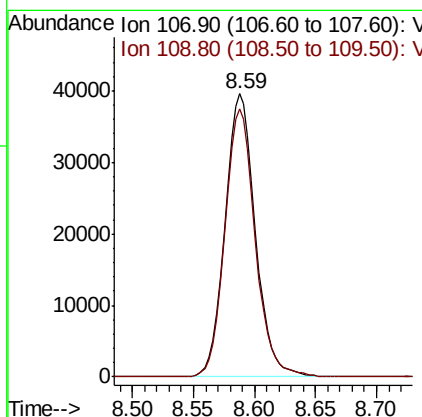
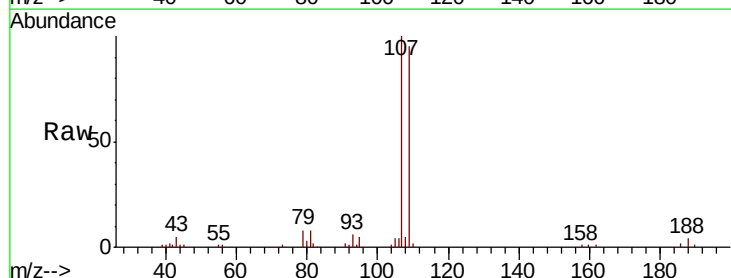
Manual Integrations
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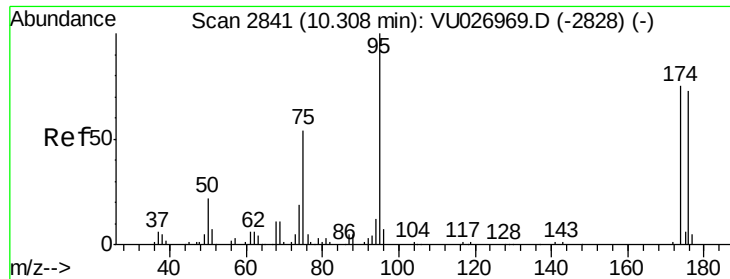
MMDadoda
 9/27/2018 3:33:20 PM



#61
 1,2-Dibromoethane
 Concen: 50.667 ug/l
 RT: 8.59 min Scan# 2306
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.0	75.0	112.6





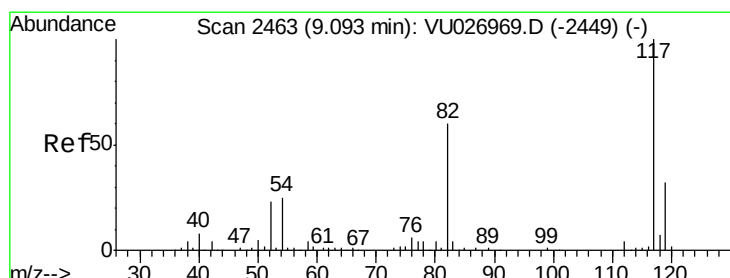
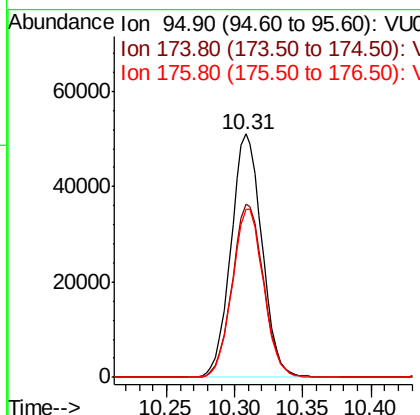
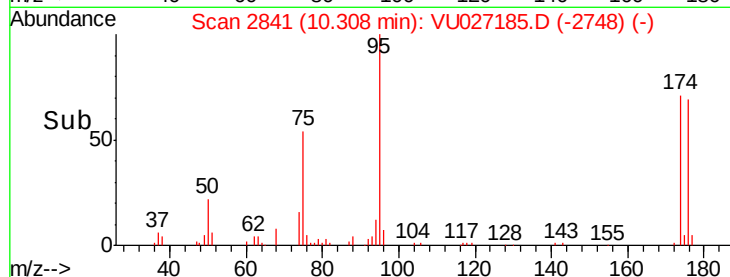
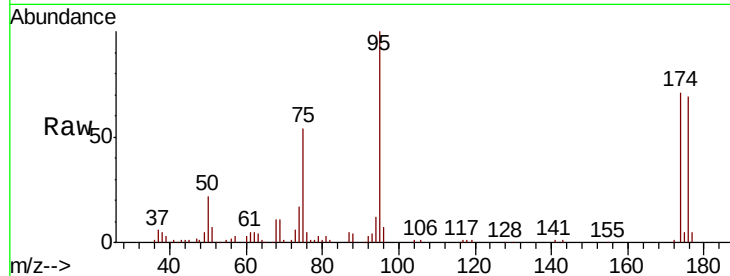
#62
 4-Bromofluorobenzene
 Concen: 53.551 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-19-092018MS

Tot Ion	Ratio	Resp	Lower	Upper
95	100	80440		
174	72.4	0.0	150.2	
176	69.7	0.0	145.2	

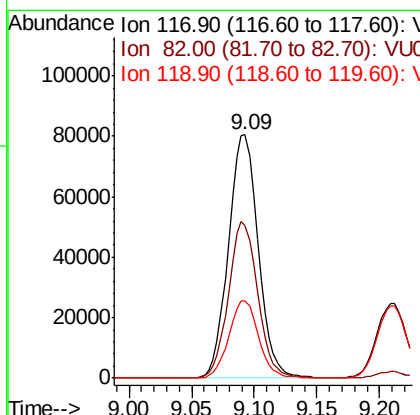
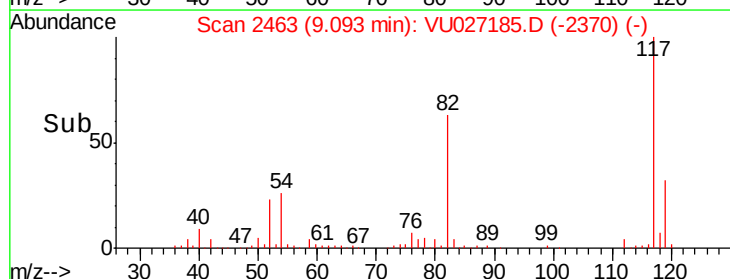
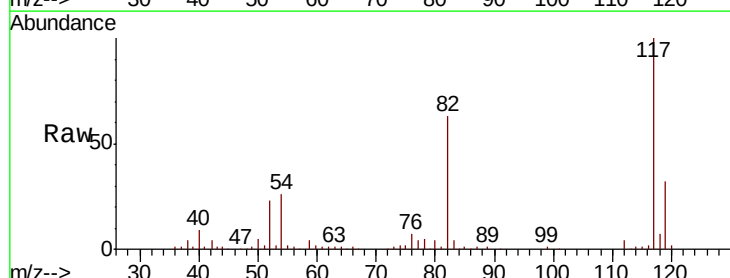
Manual Integrations
 APPROVED

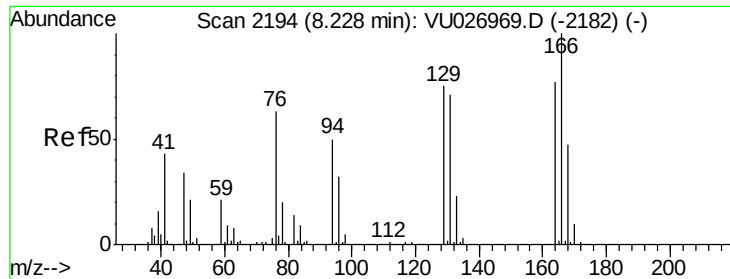
MMDadoda
 9/27/2018 3:33:20 PM



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.09 min Scan# 2463
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	132992		
82	62.7	48.0	72.0	
119	31.9	25.8	38.8	





#64

Tetrachloroethene

Concen: 42.844 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Instrument :

MSVOA_U

ClientSampleId :

MW-19-092018MS

Tot Ion:164 Resp: 43906

Ion Ratio Lower Upper

164 100

166 129.2 104.4 156.6

129 98.4 78.7 118.1

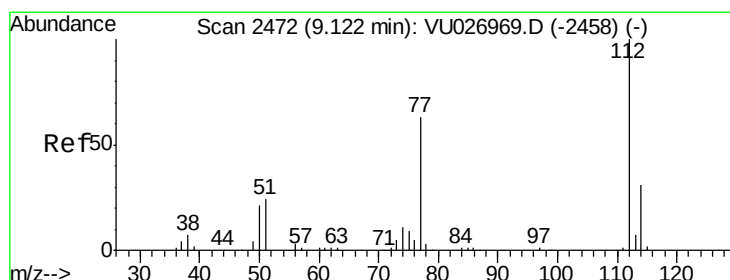
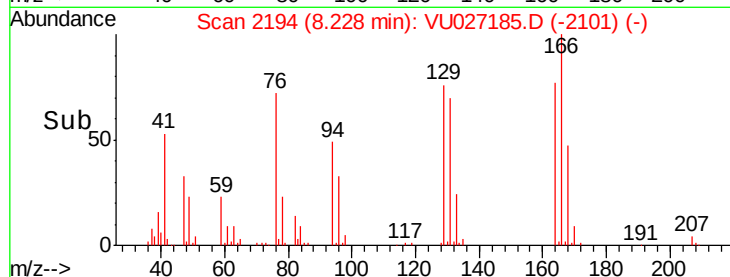
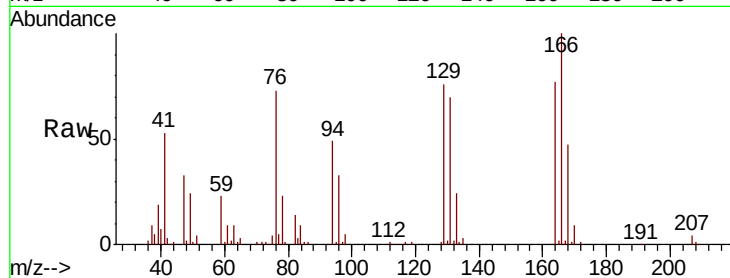
131 90.7 73.9 110.9

Manual Integrations

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MMDadoda

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#65

Chlorobenzene

Concen: 46.346 ug/l

RT: 9.12 min Scan# 2472

Delta R.T. 0.00 min

Lab File: VU027185.D

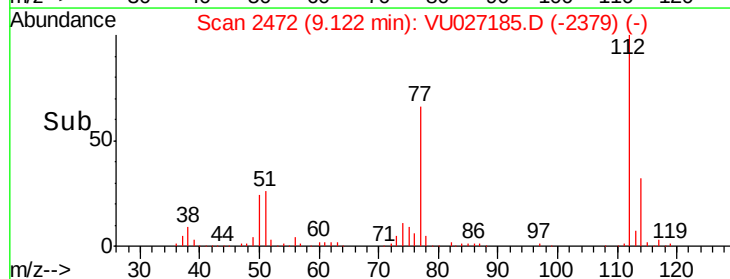
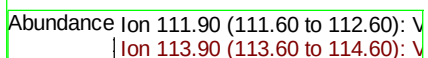
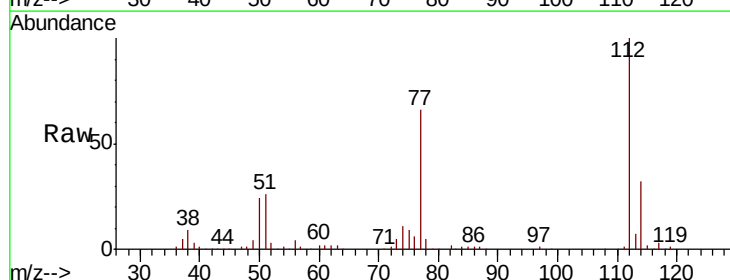
Acq: 26 Sep 2018 18:10

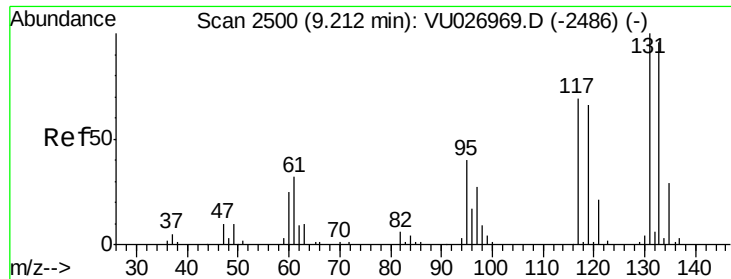
Tgt Ion:112 Resp: 163428

Ion Ratio Lower Upper

112 100

114 31.7 25.0 37.6





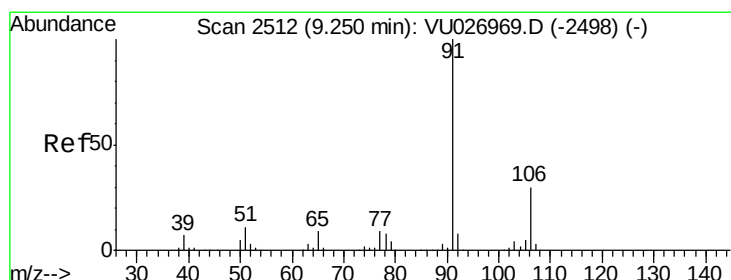
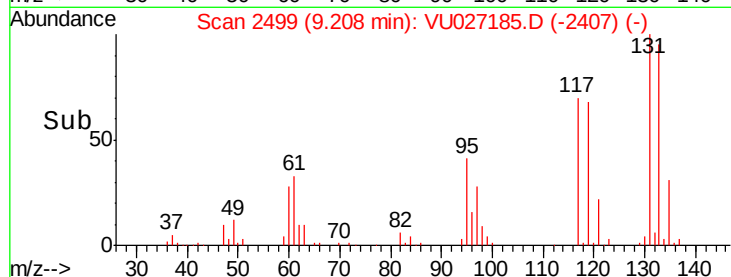
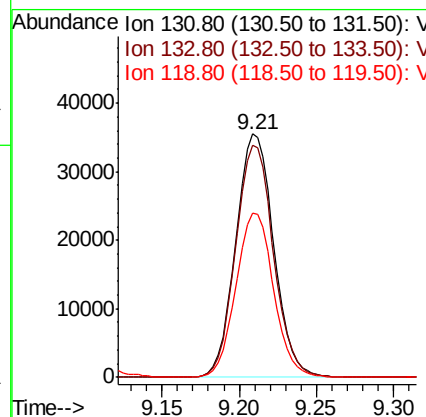
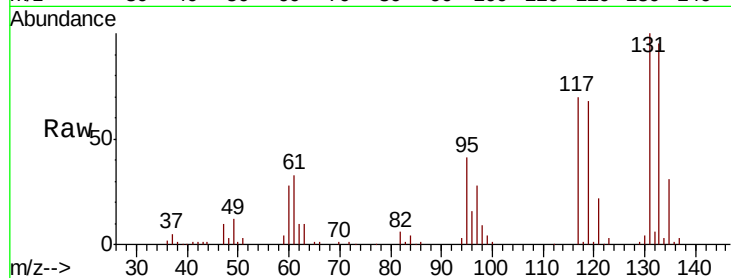
#66
 1,1,1,2-Tetrachloroethane
 Concen: 49.785 ug/l
 RT: 9.21 min Scan# 2499
 Delta R.T. -0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-19-092018MS

Tot Ion	Ratio	Lower	Upper
131	100		
133	95.0	48.0	144.2
119	66.9	33.4	100.1

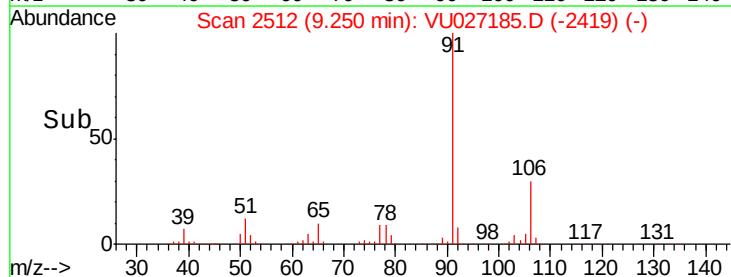
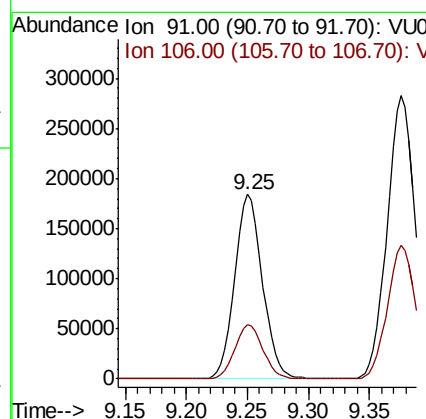
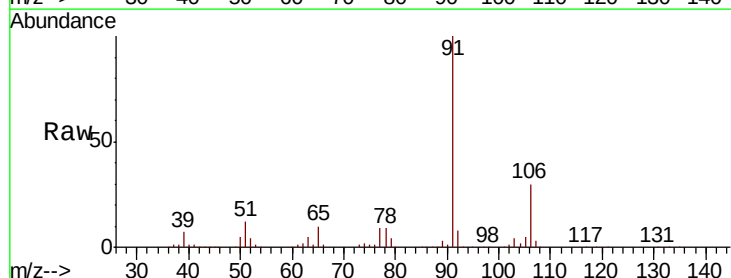
Manual Integrations
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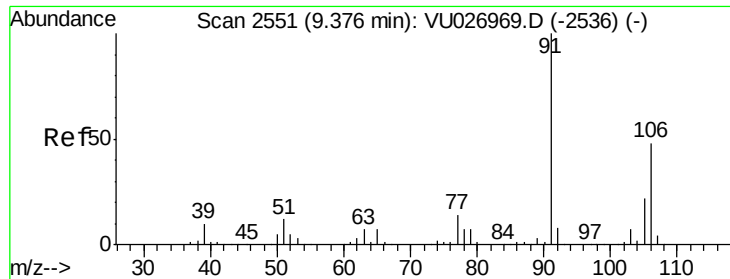
MMDadoda
 9/27/2018 3:33:20 PM



#67
 Ethyl Benzene
 Concen: 50.507 ug/l
 RT: 9.25 min Scan# 2512
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.7	23.8	35.8





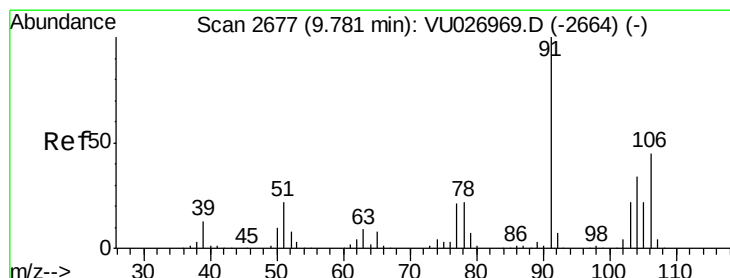
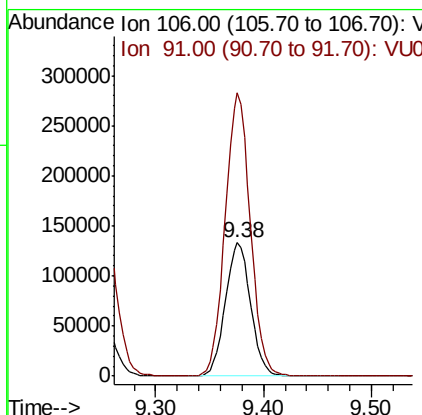
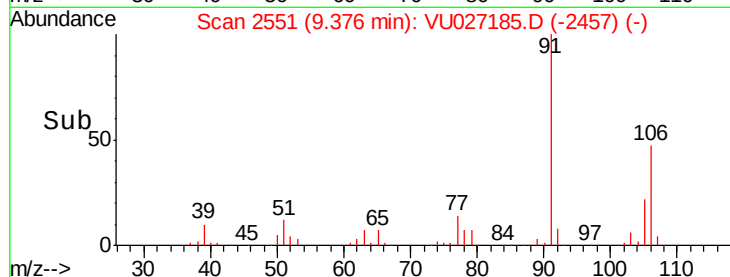
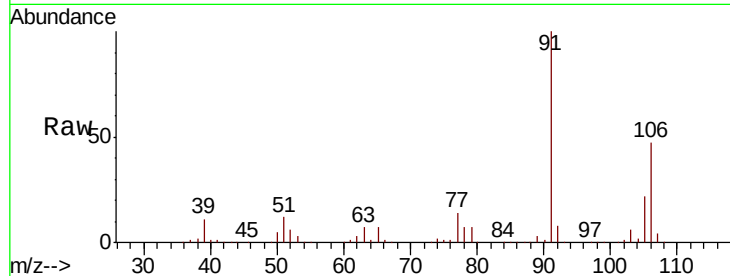
#68
m/p-Xylenes
Concen: 92.596 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VU027185.D
Acq: 26 Sep 2018 18:10

Instrument :
MSVOA_U
ClientSampleId :
MW-19-092018MS

Tot Ion:106 Resp: 217182
Ion Ratio Lower Upper
106 100
91 211.2 166.5 249.7

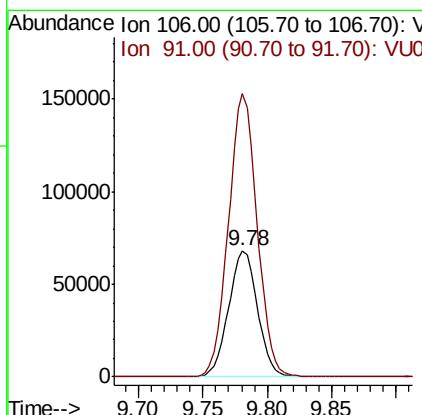
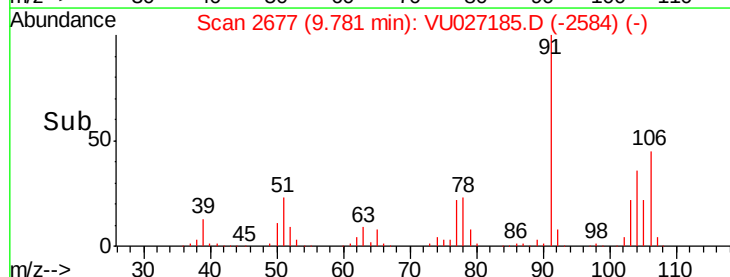
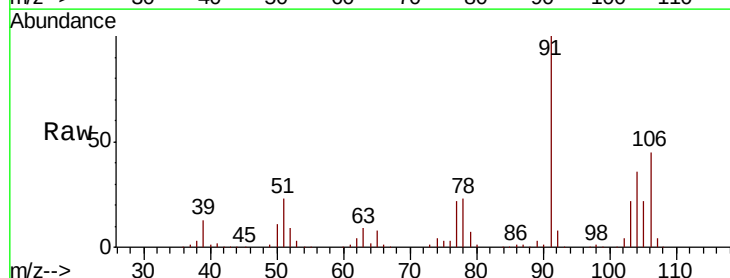
Manual Integrations
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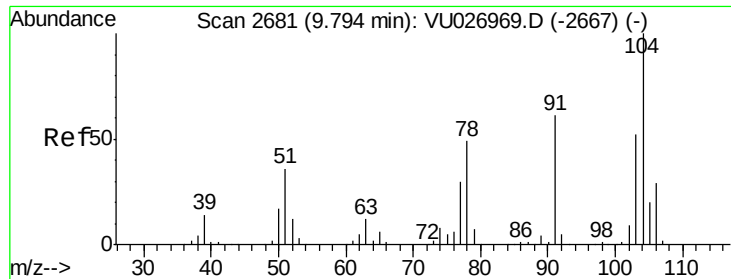
MMDadoda
9/27/2018 3:33:20 PM



#69
o-Xylene
Concen: 51.622 ug/l
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU027185.D
Acq: 26 Sep 2018 18:10

Tgt Ion:106 Resp: 106059
Ion Ratio Lower Upper
106 100
91 222.6 110.2 330.6





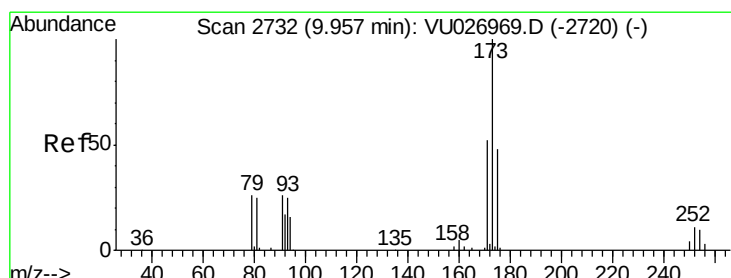
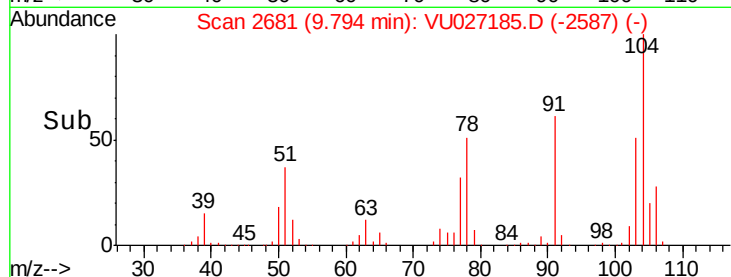
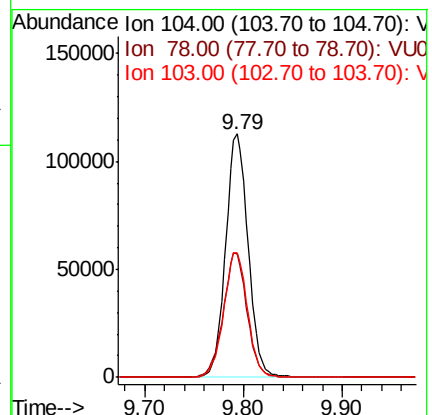
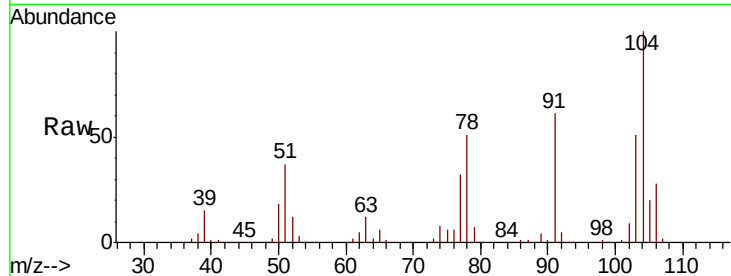
#70
Stvrene
Concen: 47.143 ug/l
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU027185.D
Acq: 26 Sep 2018 18:10

Instrument :
MSVOA_U
ClientSampleId :
MW-19-092018MS

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.0	43.0	64.4
103	54.2	44.1	66.1

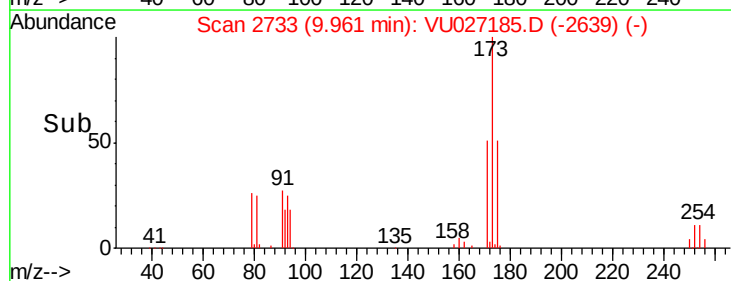
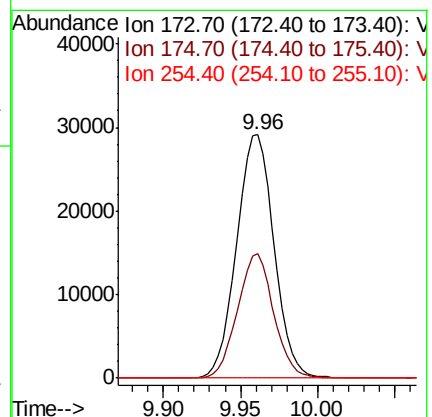
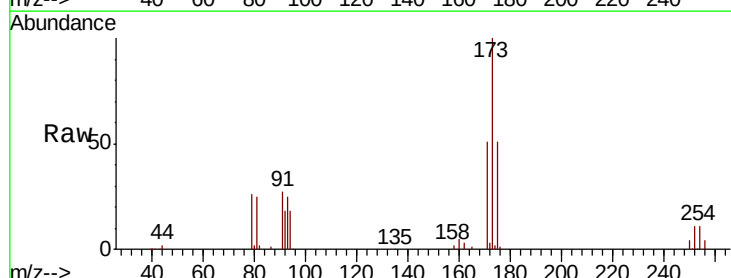
Manual Integrations
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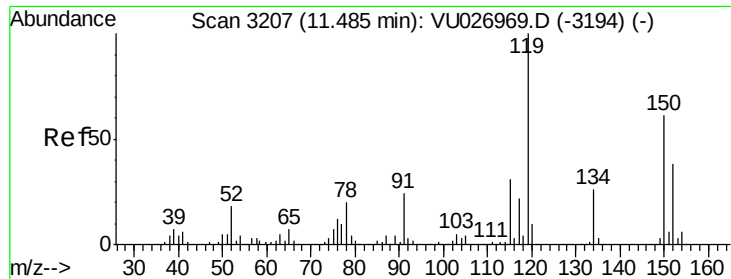
MMDadoda
9/27/2018 3:33:20 PM



#71
Bromoform
Concen: 52.087 ug/l
RT: 9.96 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU027185.D
Acq: 26 Sep 2018 18:10

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.2	23.9	71.8
254	0.0	0.0	0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Instrument :

MSVOA_U

ClientSampleId :

MW-19-092018MS

Tot Ion:152 Resp: 73475

Ion Ratio Lower Upper

152 100

115 87.9 44.9 134.5

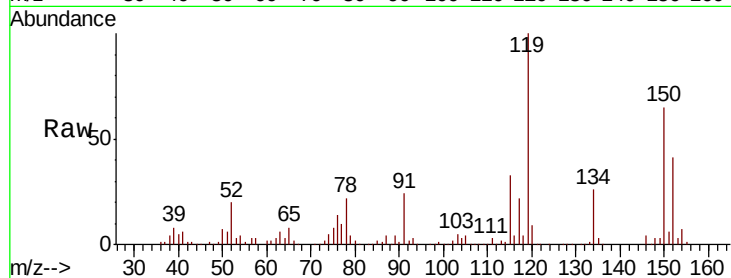
150 174.0 0.0 355.8

Manual Integrations

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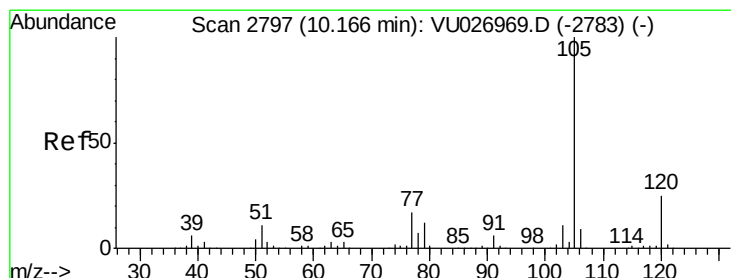
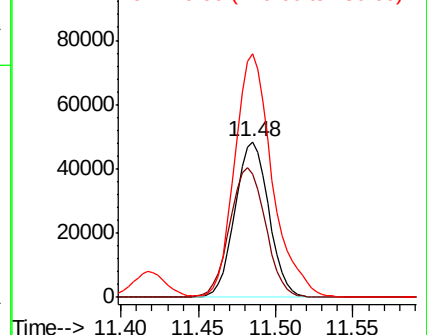
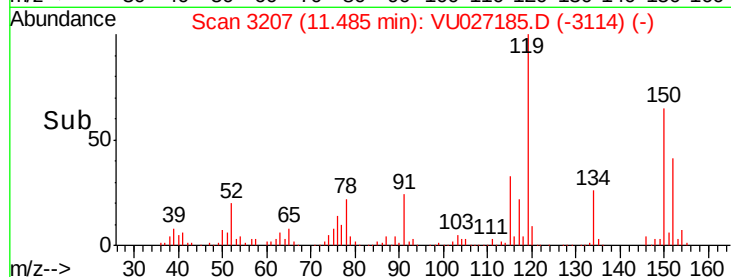
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Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 50.975 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU027185.D

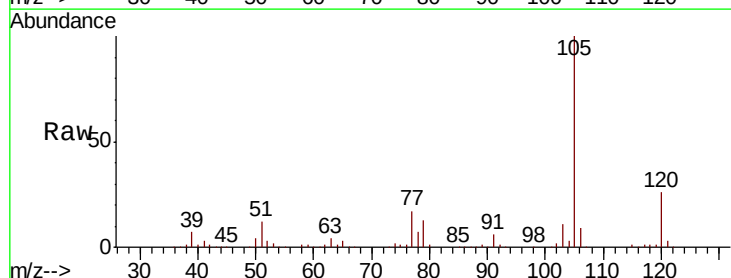
Acq: 26 Sep 2018 18:10

Tgt Ion:105 Resp: 284906

Ion Ratio Lower Upper

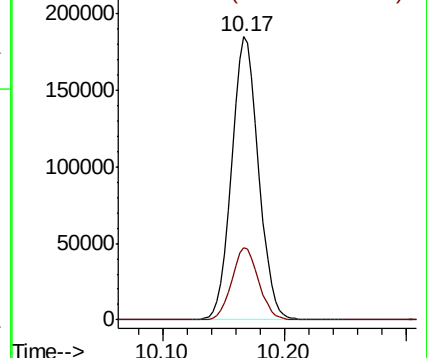
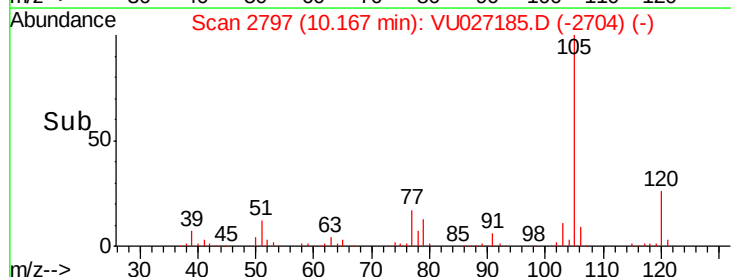
105 100

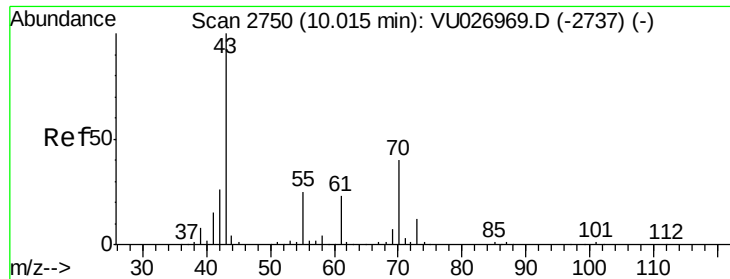
120 25.4 12.8 38.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 51.491 ug/l

RT: 10.02 min Scan# 2750

Delta R.T. 0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Instrument :

MSVOA_U

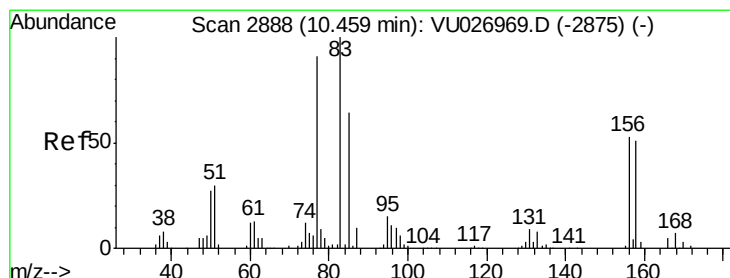
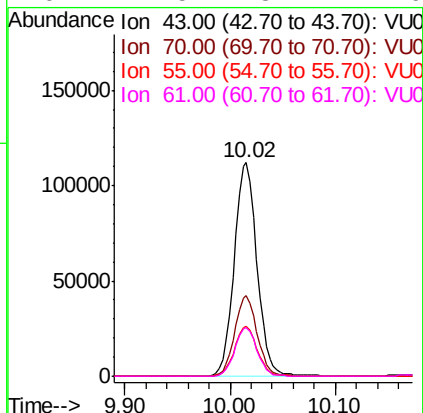
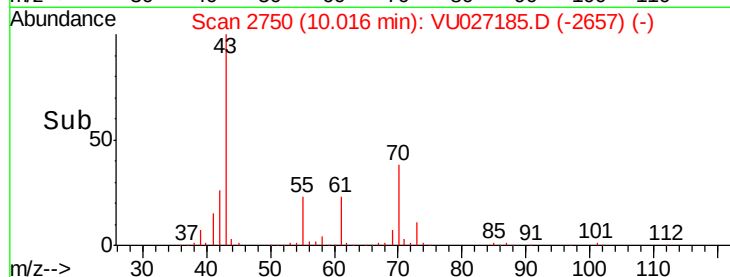
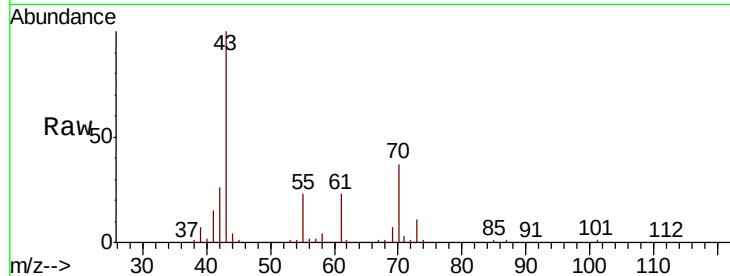
ClientSampleId :

MW-19-092018MS

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100		166585		
70	37.5	31.8	47.8		
55	23.7	19.9	29.9		
61	22.5	18.4	27.6		

Manual Integrations
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#75

1,1,2,2-Tetrachloroethane

Concen: 47.255 ug/l

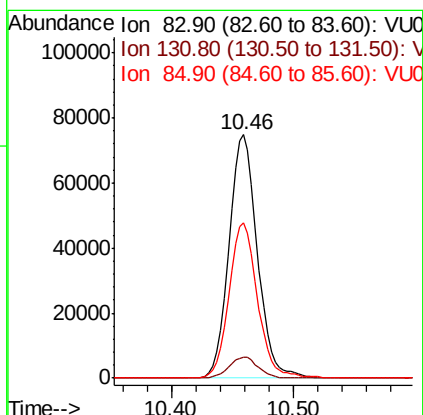
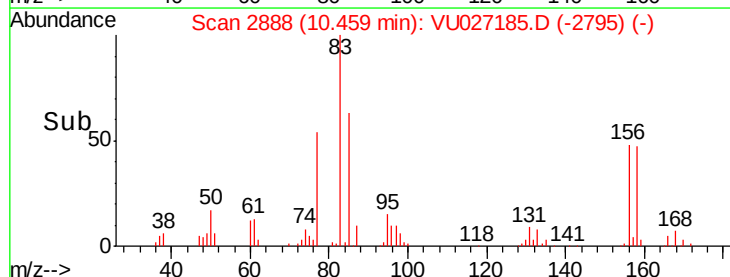
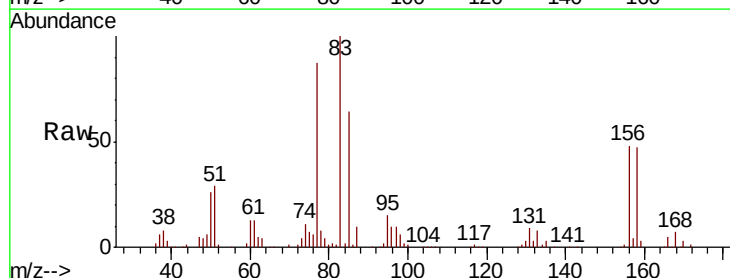
RT: 10.46 min Scan# 2888

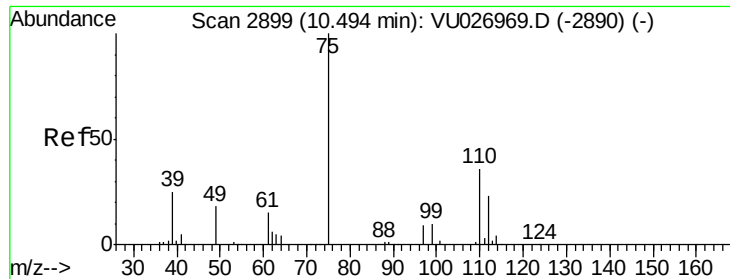
Delta R.T. 0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		121434		
131	8.7	4.3	12.8		
85	64.0	31.9	95.7		





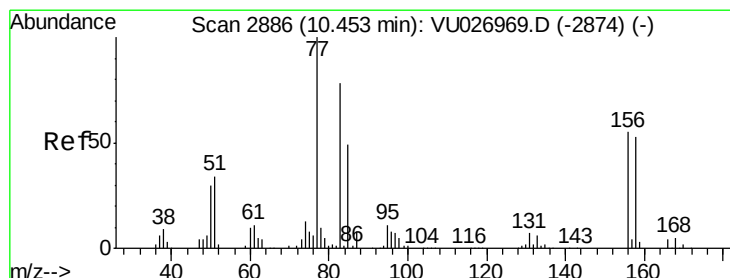
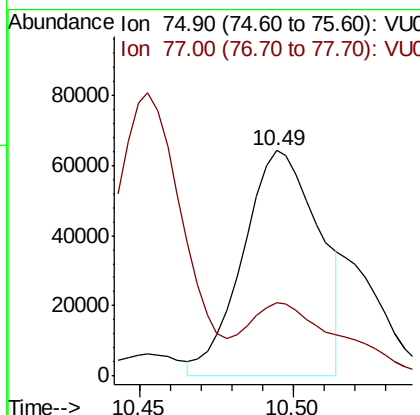
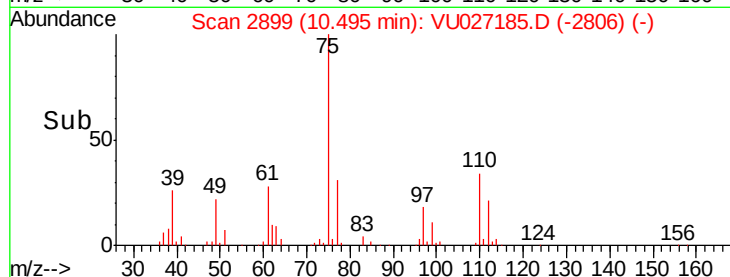
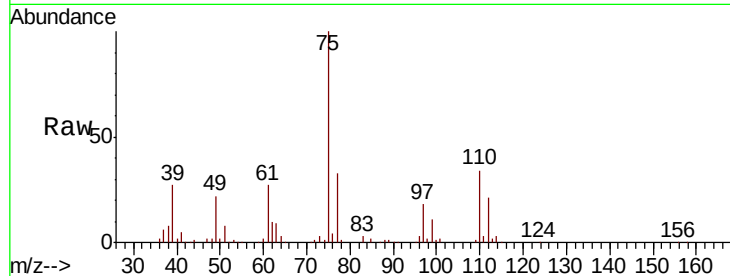
#76
 1,2,3-Trichloropropane
 Concen: 49.457 ug/l m
 RT: 10.49 min Scan# 2899
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-19-092018MS

Tot Ion: 75 Resp: 110395
 Ion Ratio Lower Upper
 75 100
 77 40.6 20.9 62.8

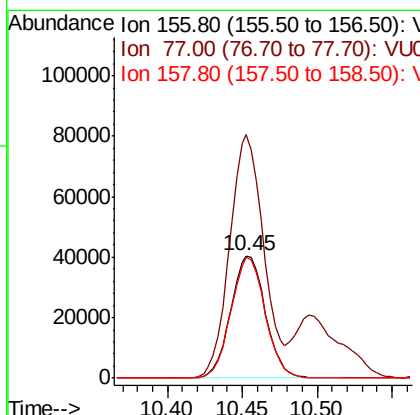
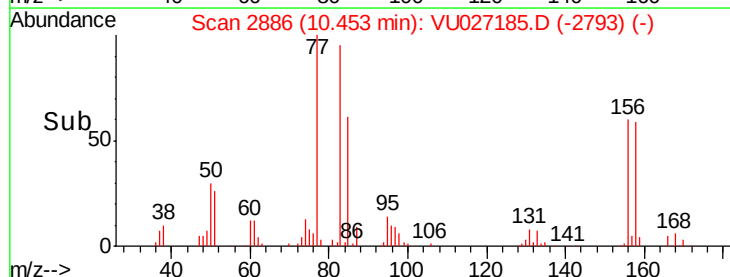
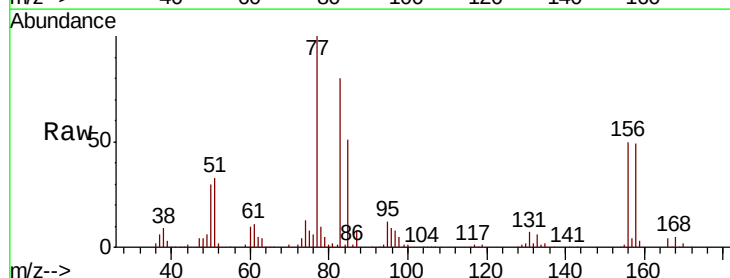
Manual Integrations
 APPROVED

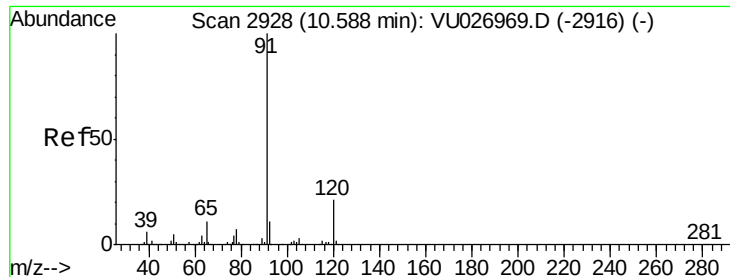
MMDadoda
 9/27/2018 3:33:20 PM



#77
 Bromobenzene
 Concen: 47.739 ug/l
 RT: 10.45 min Scan# 2886
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Tgt Ion: 156 Resp: 65203
 Ion Ratio Lower Upper
 156 100
 77 195.6 92.3 276.9
 158 97.0 48.1 144.3





#78

n-propylbenzene

Concen: 52.740 ug/l

RT: 10.59 min Scan# 2928

Delta R.T. 0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Instrument :

MSVOA_U

ClientSampleId :

MW-19-092018MS

Tot Ion: 91 Resp: 348786

Ion Ratio Lower Upper

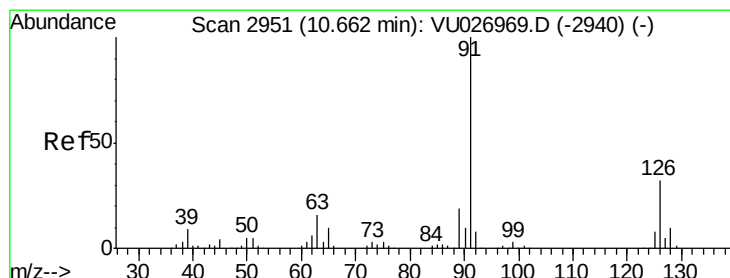
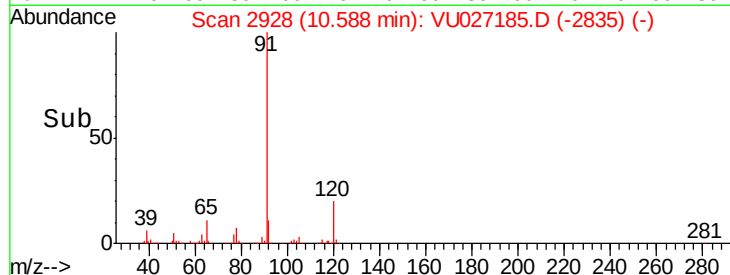
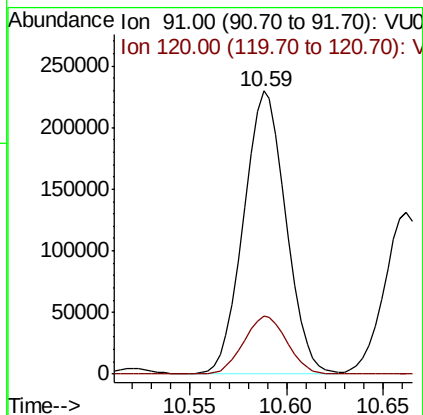
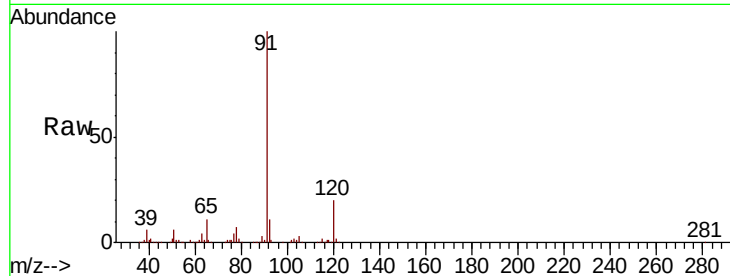
91 100

120 20.8 10.6 31.8

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#79

2-Chlorotoluene

Concen: 49.136 ug/l

RT: 10.66 min Scan# 2951

Delta R.T. 0.00 min

Lab File: VU027185.D

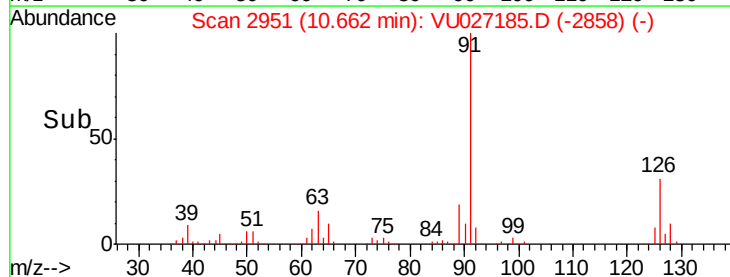
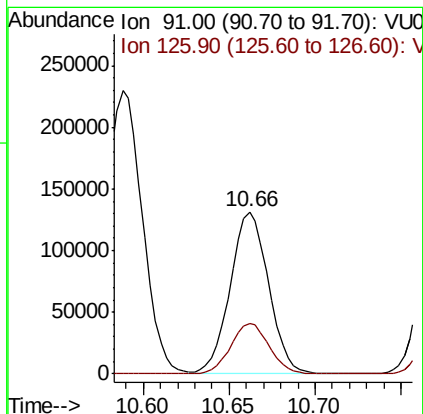
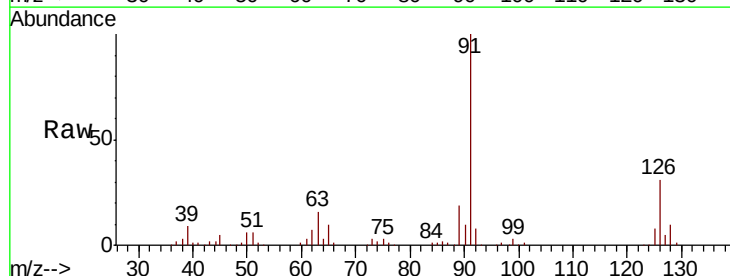
Acq: 26 Sep 2018 18:10

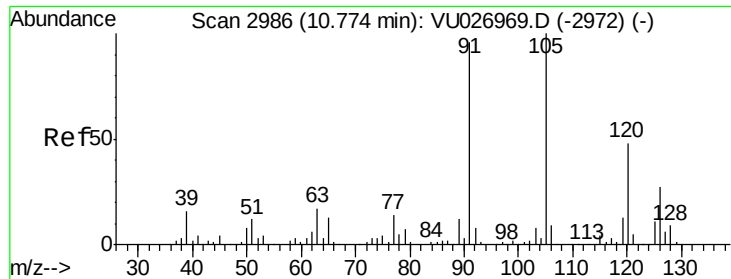
Tgt Ion: 91 Resp: 204112

Ion Ratio Lower Upper

91 100

126 31.3 15.8 47.3





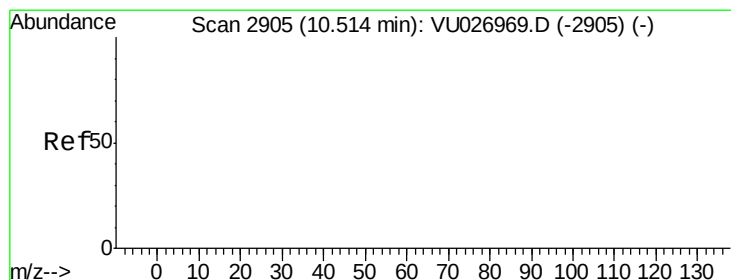
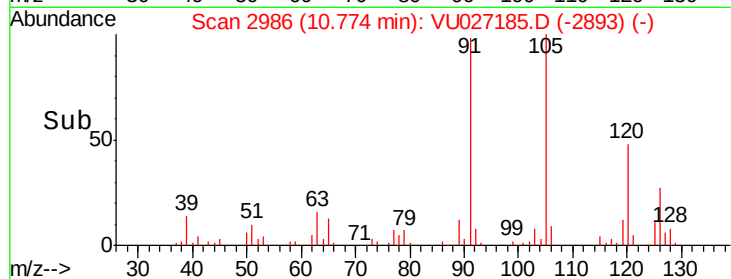
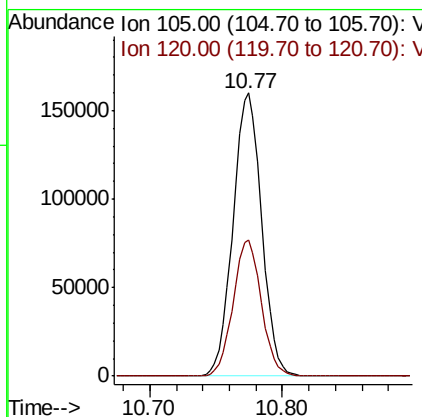
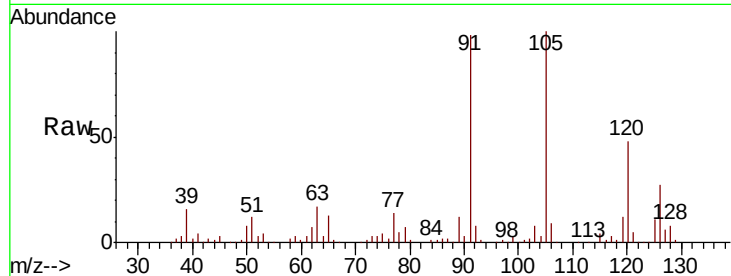
#80
 1,3,5-Trimethylbenzene
 Concen: 51.858 ug/l
 RT: 10.77 min Scan# 2986
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-19-092018MS

Tot Ion:105 Resp: 239256
 Ion Ratio Lower Upper
 105 100
 120 47.4 23.9 71.7

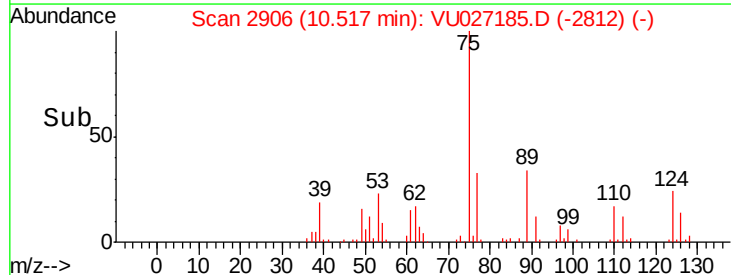
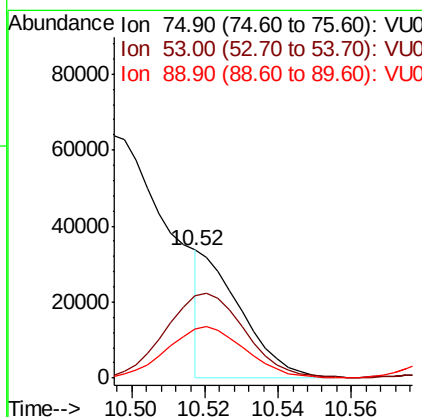
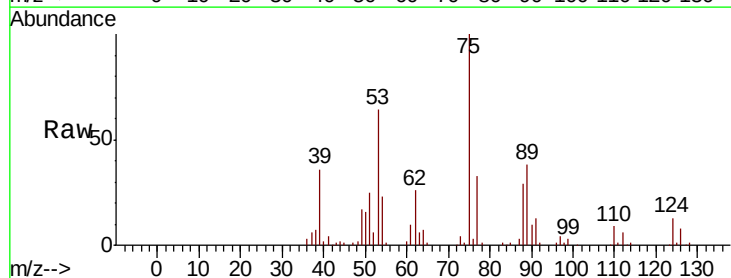
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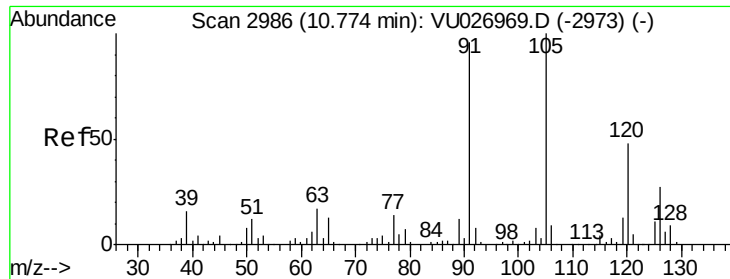
MMDadoda
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#81
 trans-1,4-Dichloro-2-butene
 Concen: 36.464 ug/l m
 RT: 10.52 min Scan# 2906
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Tgt Ion: 75 Resp: 25434
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0





#82

4-Chlorotoluene

Concen: 50.959 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Instrument :

MSVOA_U

ClientSampleId :

MW-19-092018MS

Tot Ion: 91 Resp: 237357

Ion Ratio Lower Upper

91 100

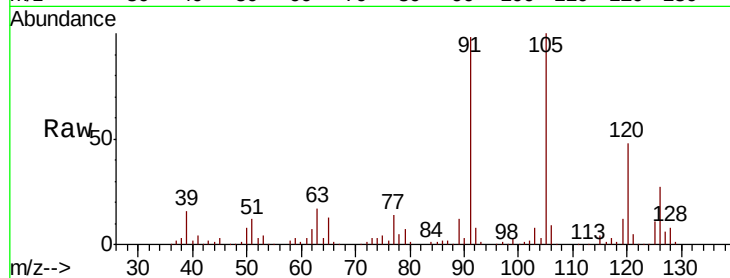
126 27.6 14.1 42.2

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VU026969.D (-2973) (-)

Ion 125.90 (125.60 to 126.60): VU026969.D (-2973) (-)

10.77

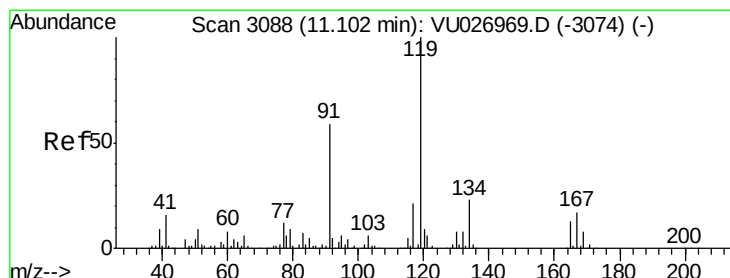
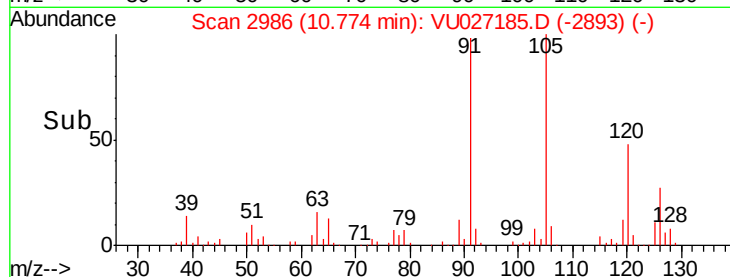
150000

100000

50000

0

Time-->



#83

tert-Butylbenzene

Concen: 50.555 ug/l

RT: 11.10 min Scan# 3088

Delta R.T. 0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

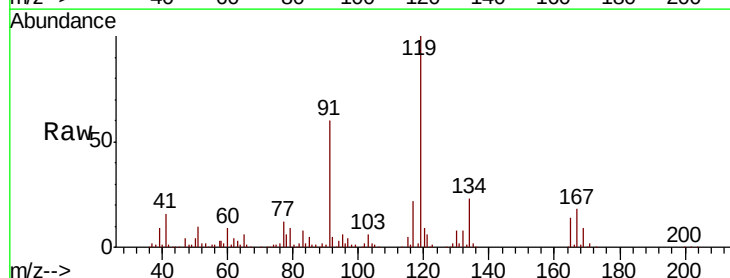
Tgt Ion: 119 Resp: 230600

Ion Ratio Lower Upper

119 100

91 60.5 29.8 89.4

134 22.7 11.5 34.4



Abundance Ion 119.00 (118.70 to 119.70): VU026969.D (-3074) (-)

Ion 91.00 (90.70 to 91.70): VU026969.D (-3074) (-)

Ion 134.00 (133.70 to 134.70): VU026969.D (-3074) (-)

11.10

200000

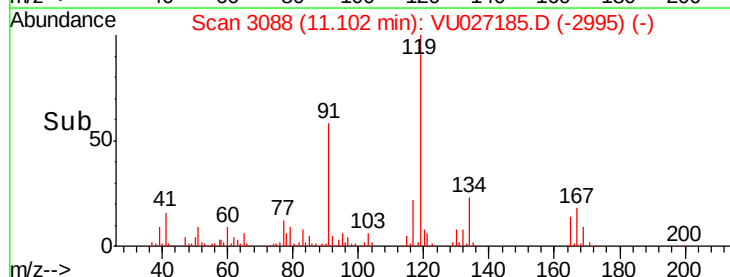
150000

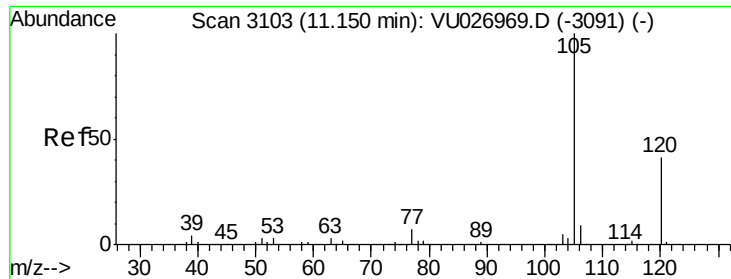
100000

50000

0

Time-->





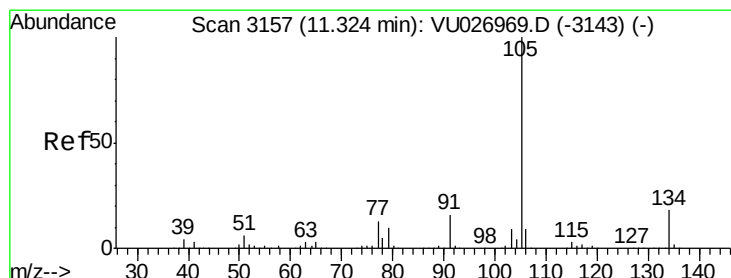
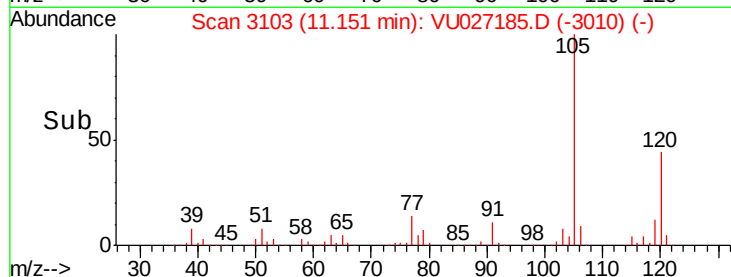
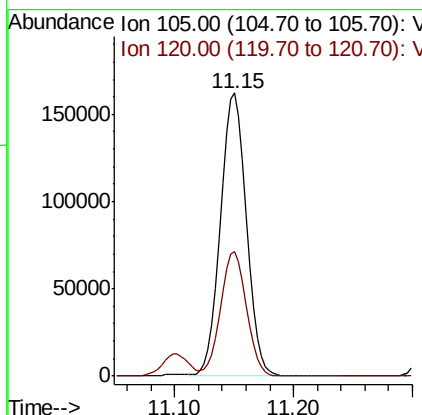
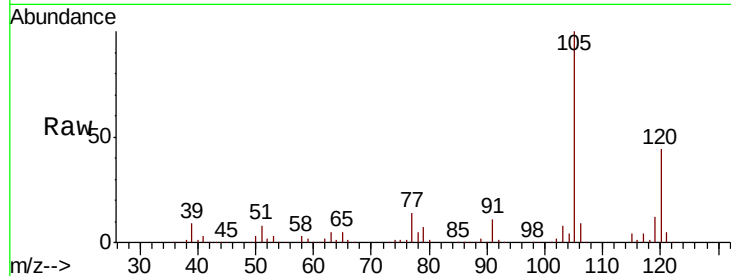
#84
 1,2,4-Trimethylbenzene
 Concen: 52.219 ug/l
 RT: 11.15 min Scan# 3103
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-19-092018MS

Tot Ion:105 Resp: 245188
 Ion Ratio Lower Upper
 105 100
 120 43.8 22.4 67.2

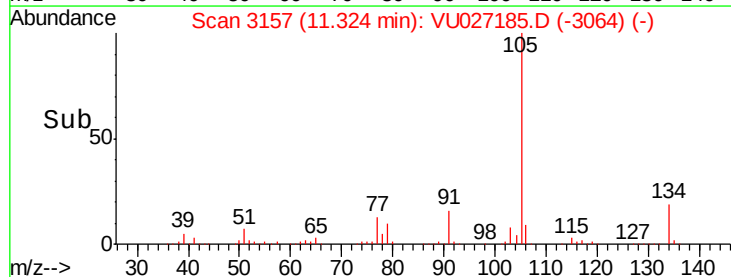
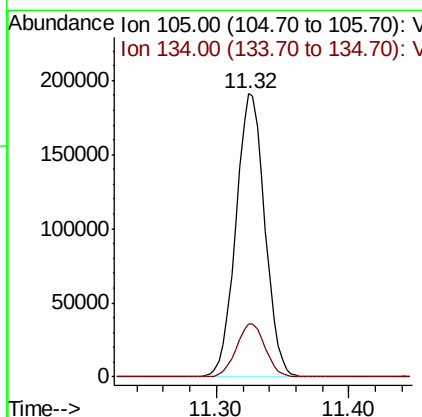
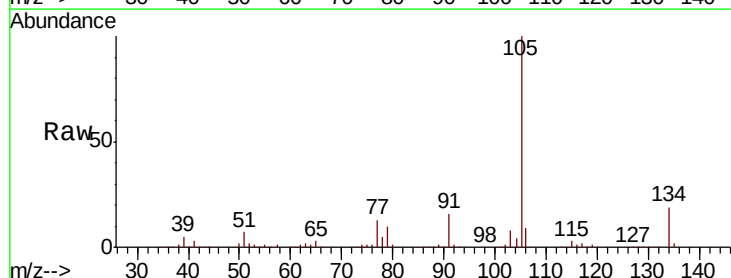
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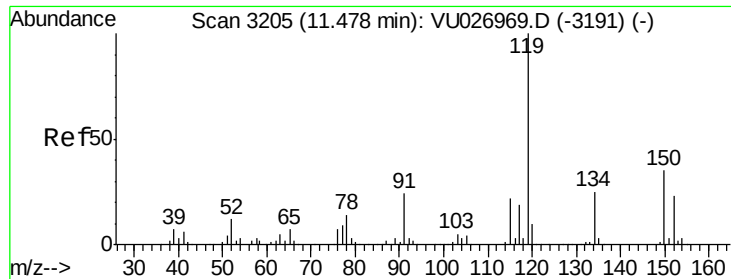
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#85
 sec-Butylbenzene
 Concen: 51.786 ug/l
 RT: 11.32 min Scan# 3157
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Tgt Ion:105 Resp: 288351
 Ion Ratio Lower Upper
 105 100
 134 18.7 9.4 28.2





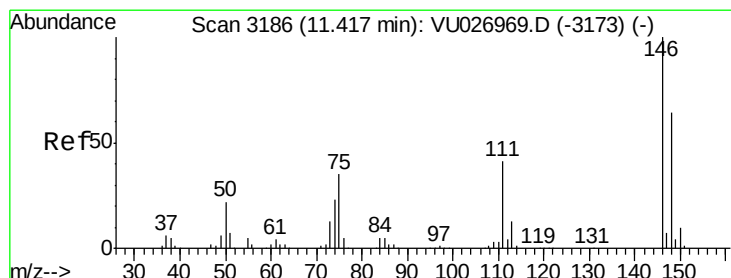
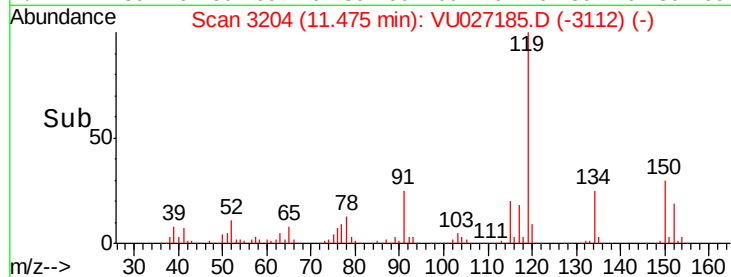
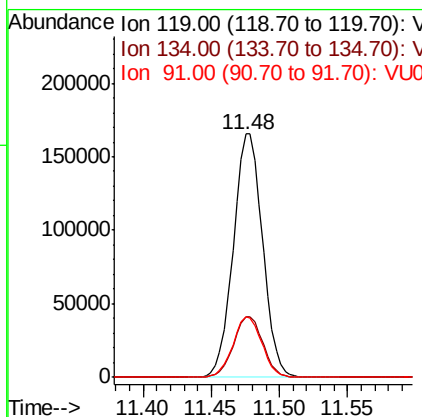
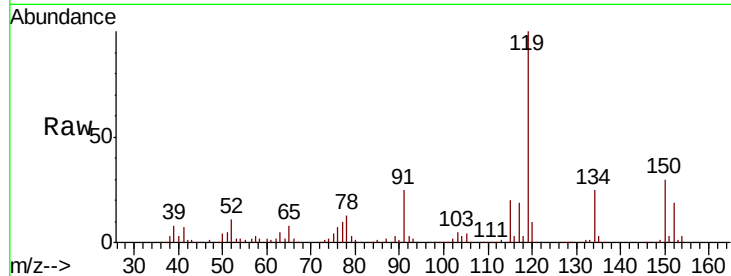
#86
 p-Isopropyltoluene
 Concen: 47.224 ug/l
 RT: 11.48 min Scan# 3204
 Delta R.T. -0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-19-092018MS

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.0	12.8	38.3
91	24.8	12.3	36.8

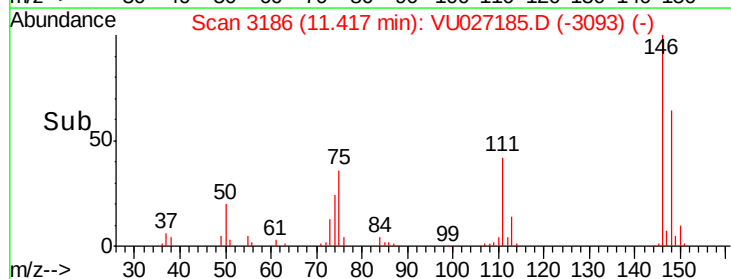
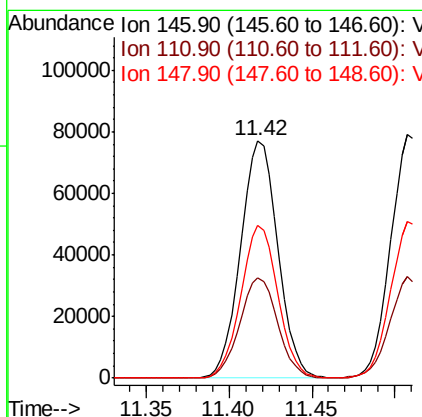
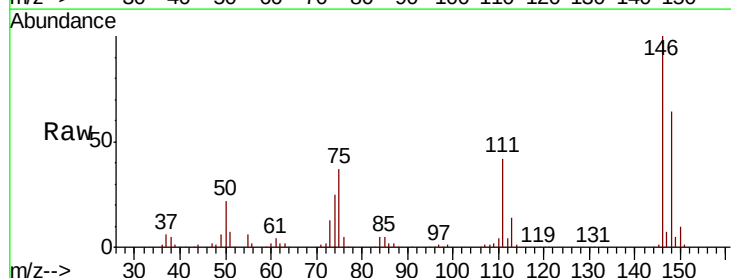
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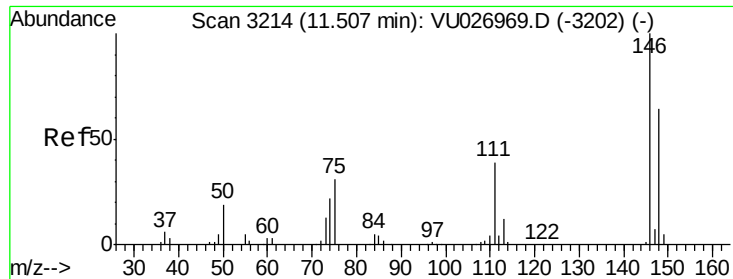
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#87
 1,3-Dichlorobenzene
 Concen: 47.400 ug/l
 RT: 11.42 min Scan# 3186
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.8	20.8	62.2
148	63.7	32.0	96.2





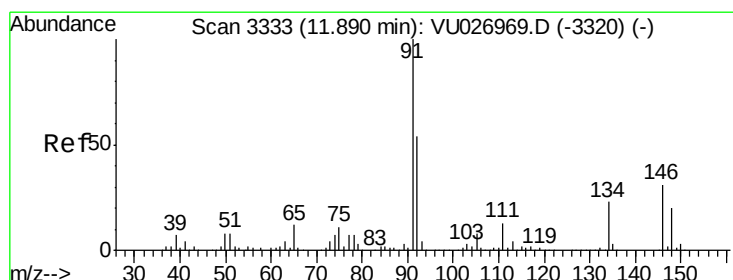
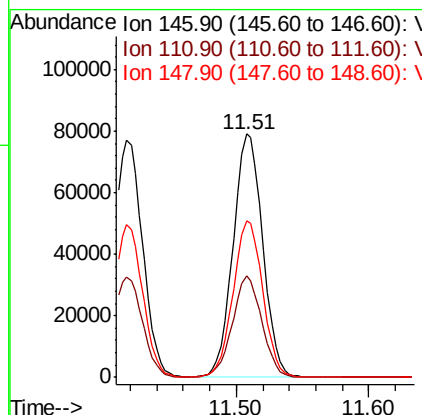
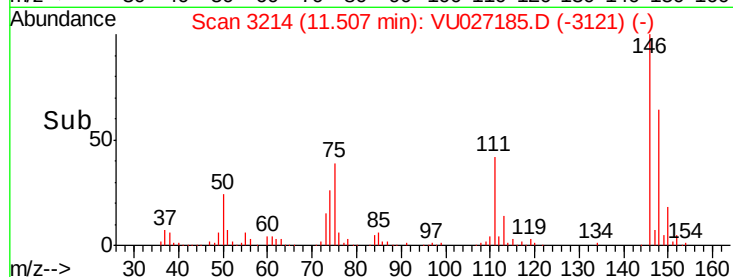
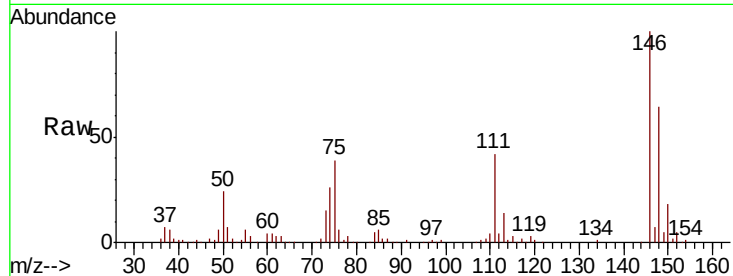
#88
 1,4-Dichlorobenzene
 Concen: 44.217 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-19-092018MS

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.3	60.9
148	64.5	31.9	95.9

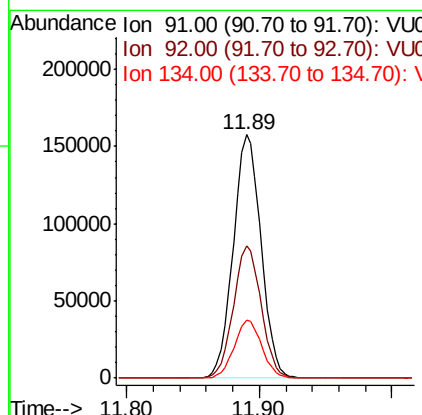
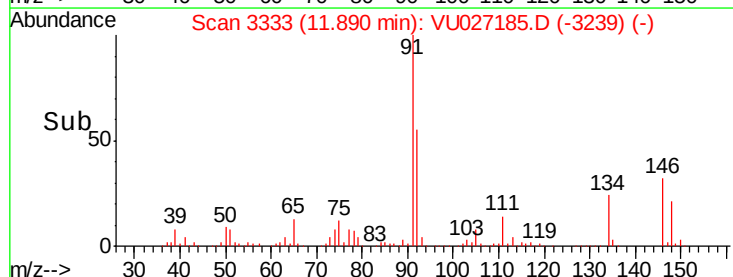
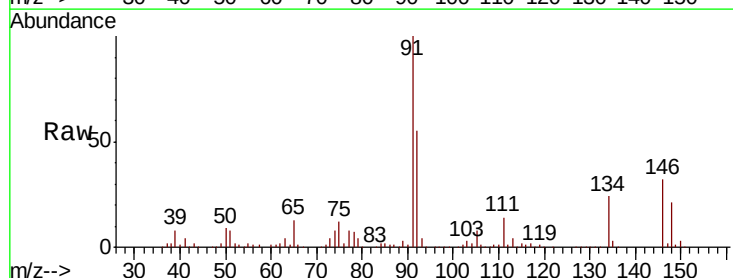
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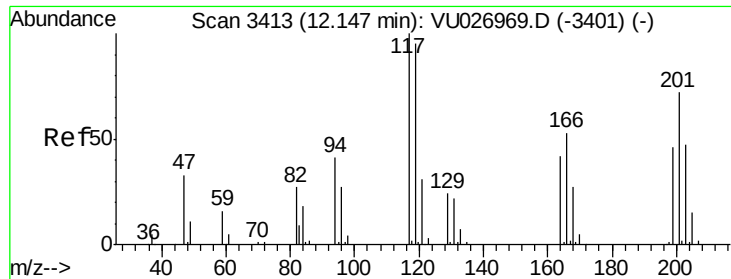
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#89
 n-Butylbenzene
 Concen: 45.476 ug/l
 RT: 11.89 min Scan# 3333
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.1	81.2
134	23.5	11.7	35.0





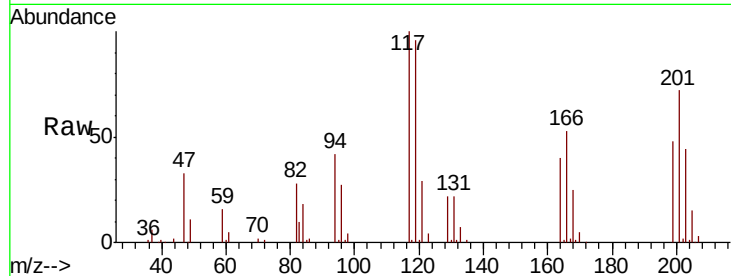
#90
Hexachloroethane
Concen: 47.591 ug/l
RT: 12.15 min Scan# 3413
Delta R.T. 0.00 min
Lab File: VU027185.D
Acq: 26 Sep 2018 18:10

Instrument :
MSVOA_U
ClientSampleId :
MW-19-092018MS

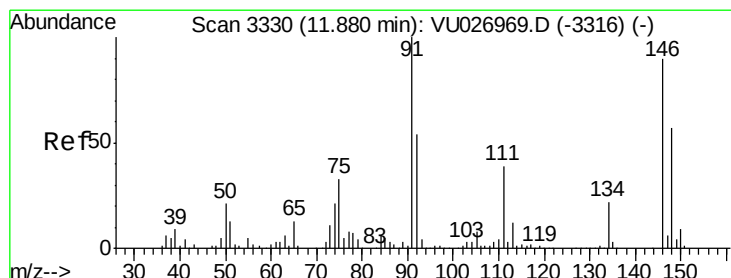
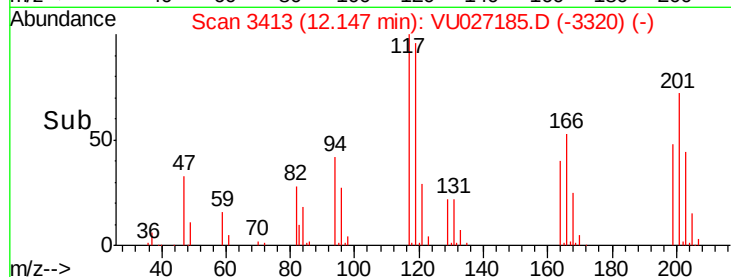
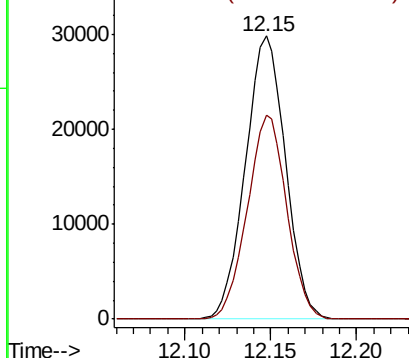
Tot Ion:117 Resp: 48188
Ion Ratio Lower Upper
117 100
201 70.7 36.8 110.3

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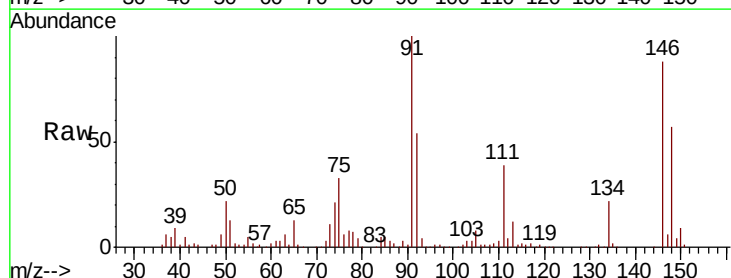


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V

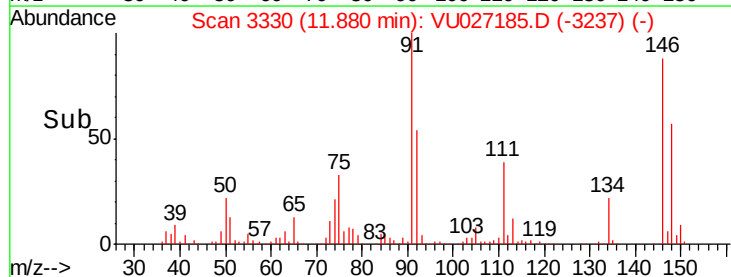
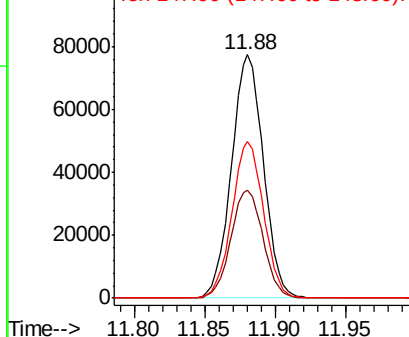


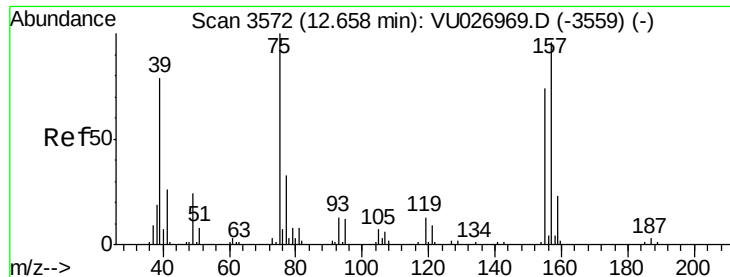
#91
1,2-Dichlorobenzene
Concen: 45.473 ug/l
RT: 11.88 min Scan# 3330
Delta R.T. 0.00 min
Lab File: VU027185.D
Acq: 26 Sep 2018 18:10

Tgt Ion:146 Resp: 122769
Ion Ratio Lower Upper
146 100
111 44.7 21.8 65.3
148 63.8 31.9 95.7



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 54.260 ug/l

RT: 12.66 min Scan# 3571

Delta R.T. -0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Instrument :

MSVOA_U

ClientSampleId :

MW-19-092018MS

Tot Ion: 75 Resp: 28445

Ion Ratio Lower Upper

75 100

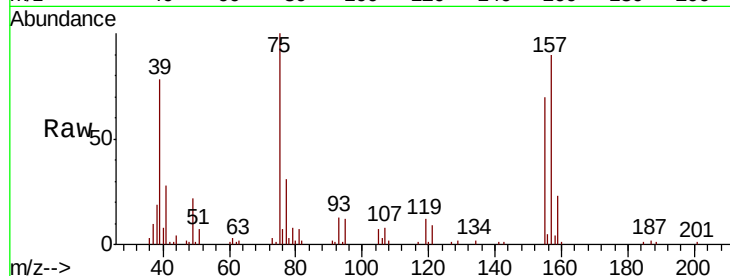
155 71.8 36.6 109.8

157 90.9 47.4 142.2

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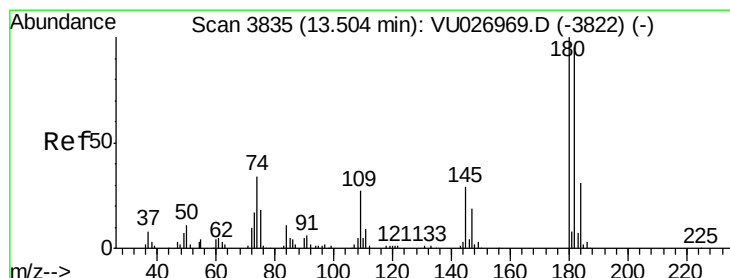
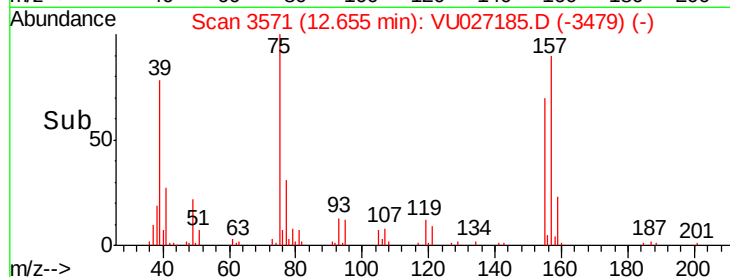
Abundance Ion 74.90 (74.60 to 75.60): VU026969.D (-3559) (-)

Ion 154.80 (154.50 to 155.50): VU026969.D (-3559) (-)

Ion 156.80 (156.50 to 157.50): VU026969.D (-3559) (-)

12.66

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 50.286 ug/l

RT: 13.50 min Scan# 3835

Delta R.T. 0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

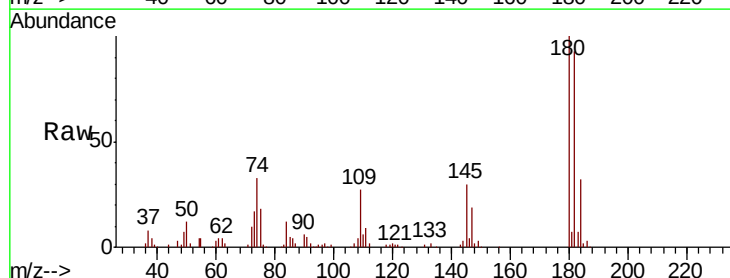
Tgt Ion: 180 Resp: 78236

Ion Ratio Lower Upper

180 100

182 95.1 47.4 142.2

145 30.7 14.9 44.5



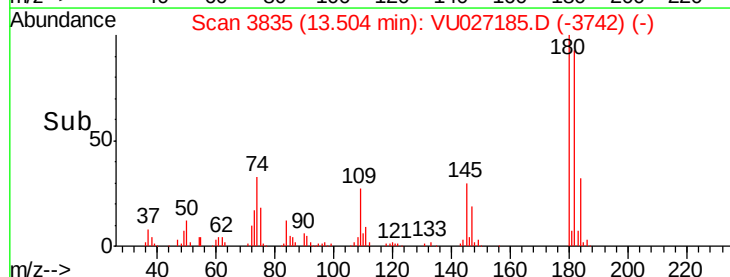
Abundance Ion 179.80 (179.50 to 180.50): VU026969.D (-3822) (-)

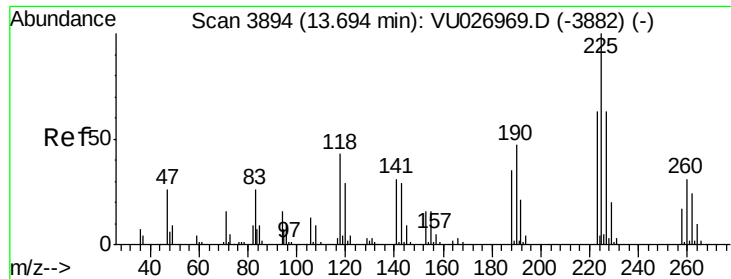
Ion 181.80 (181.50 to 182.50): VU026969.D (-3822) (-)

Ion 144.80 (144.50 to 145.50): VU026969.D (-3822) (-)

13.50

Time-->





#94

Hexachlorobutadiene

Concen: 44.672 ug/l

RT: 13.69 min Scan# 3894

Delta R.T. 0.00 min

Lab File: VU027185.D

Acq: 26 Sep 2018 18:10

Instrument :

MSVOA_U

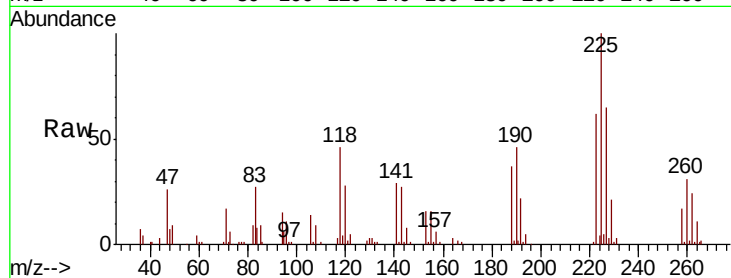
ClientSampleId :

MW-19-092018MS

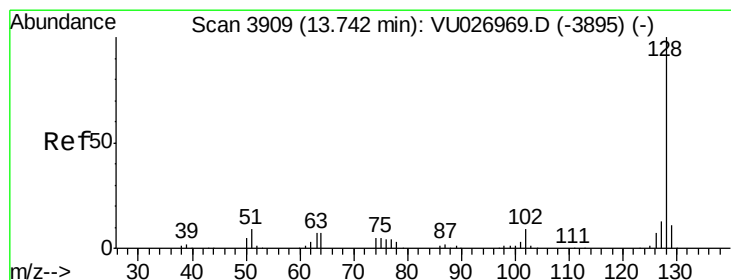
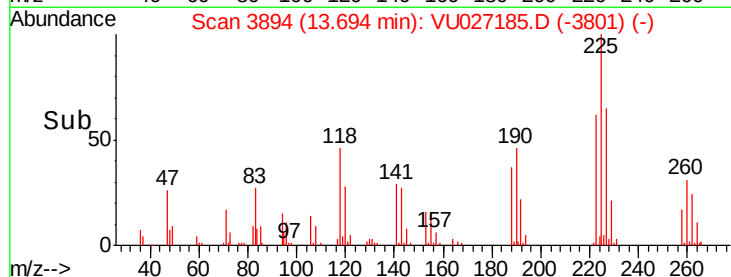
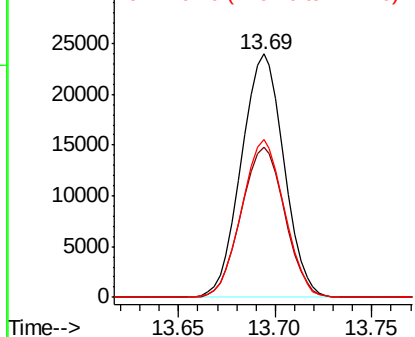
Tot Ion:	225	Resp:	36774
Ion Ratio	Lower	Upper	
225	100		
223	63.2	31.9	95.7
227	65.0	32.1	96.5

Manual Integrations
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9/27/2018 3:33:20 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: 47.622 ug/l

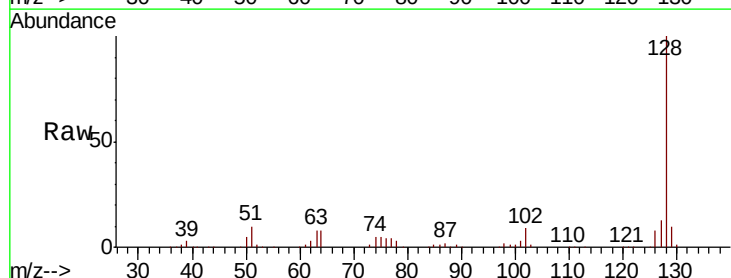
RT: 13.75 min Scan# 3910

Delta R.T. 0.00 min

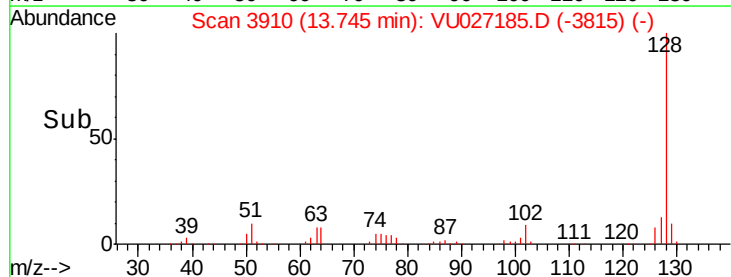
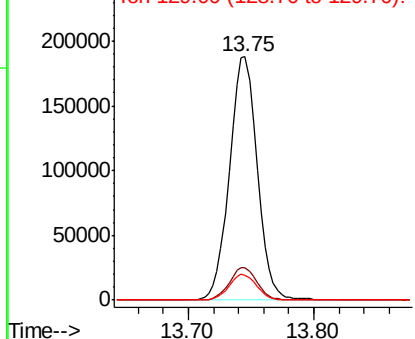
Lab File: VU027185.D

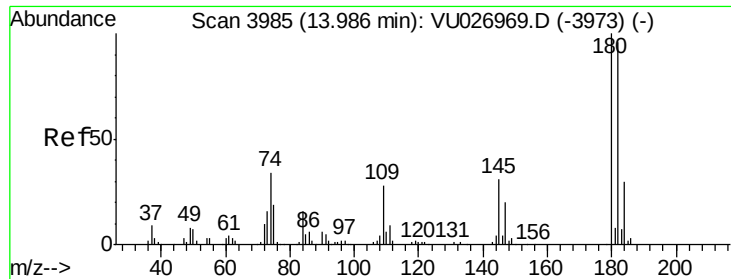
Acq: 26 Sep 2018 18:10

Tgt Ion:	128	Resp:	289181
Ion Ratio	Lower	Upper	
128	100		
127	13.3	10.6	15.8
129	10.6	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: 50.861 ug/l
 RT: 13.99 min Scan# 3985
 Delta R.T. 0.00 min
 Lab File: VU027185.D
 Acq: 26 Sep 2018 18:10

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-19-092018MS

Tot Ion	Ratio	Resp Lower	Upper
180	100		
182	94.6	47.5	142.5
145	31.5	15.4	46.4

Manual Integrations
 APPROVED

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