

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU021020\
 Data File : VU036708.D
 Acq On : 10 Feb 2020 13:13
 Operator : JC/MD
 Sample : MDL03
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 MDL03

Manual Integrations
 APPROVED

MMDadoda
 2/12/2020 3:10:05 PM

Quant Time: Feb 11 03:56:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Tue Feb 11 03:31:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	255898	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	241449	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.83	152	104889	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	72660	42.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.14%
7) Chloroethane-d5	1.93	69	71464	45.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.32%
11) 1,1-Dichloroethene-d2	2.59	63	106740	33.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.26%
21) 2-Butanone-d5	4.68	46	159482	109.53	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	109.53%
24) Chloroform-d	5.11	84	143241	46.38	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.76%
26) 1,2-Dichloroethane-d4	5.75	65	103527	49.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.02%
32) Benzene-d6	5.77	84	304737	48.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.00%
36) 1,2-Dichloropropane-d6	6.73	67	102040	48.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.84%
41) Toluene-d8	7.93	98	273655	47.08	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.16%
43) trans-1,3-Dichloropropene-	8.21	79	46569	46.15	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.30%
47) 2-Hexanone-d5	8.67	63	126533	105.21	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	105.21%
56) 1,1,2,2-Tetrachloroethane-	10.78	84	152542	49.12	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.24%
66) 1,2-Dichlorobenzene-d4	12.21	152	95408	50.07	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.14%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	4237	2.396 ug/L	100
3) Chloromethane	1.54	50	5348	2.553 ug/L	100
5) Vinyl chloride	1.62	62	5228	2.317 ug/L #	59
6) Bromomethane	1.87	94	3239	2.290 ug/L	94
8) Chloroethane	1.95	64	3508	2.450 ug/L	92
9) Trichlorofluoromethane	2.16	101	6083	2.269 ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	4785	2.980 ug/L #	83
12) 1,1-Dichloroethene	2.61	96	4475	2.863 ug/L #	1
13) Acetone	2.66	43	10773	6.965 ug/L	99
14) Carbon disulfide	2.82	76	11136	2.384 ug/L	99
15) Methyl Acetate	2.99	43	5993	2.680 ug/L	96
16) Methylene chloride	3.08	84	5430	2.814 ug/L	93
17) trans-1,2-Dichloroethene	3.39	96	4058	2.440 ug/L	93
18) Methyl tert-butyl Ether	3.41	73	13758	2.383 ug/L	98
19) 1,1-Dichloroethane	3.92	63	7962	2.403 ug/L	98
20) cis-1,2-Dichloroethene	4.71	96	4618m	2.437 ug/L	
22) 2-Butanone	4.77	43	9479	5.164 ug/L	82

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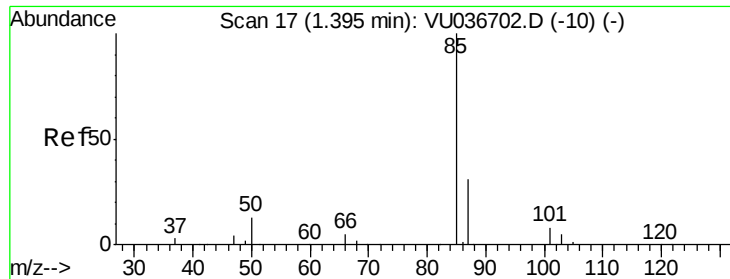
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.03	128	1972	2.221	ug/L	88
25) Chloroform	5.13	83	9666	2.999	ug/L	97
27) 1,2-Dichloroethane	5.84	62	6695	2.470	ug/L #	94
29) Cyclohexane	5.43	56	6962	2.245	ug/L	96
30) 1,1,1-Trichloroethane	5.36	97	6238	2.432	ug/L	98
31) Carbon tetrachloride	5.57	117	4669	2.248	ug/L	99
33) Benzene	5.82	78	17075	2.338	ug/L	100
34) Trichloroethene	6.58	95	4393	2.433	ug/L	96
35) Methylcyclohexane	6.80	83	7618	2.395	ug/L	98
37) 1,2-Dichloropropane	6.83	63	5028	2.553	ug/L #	91
38) Bromodichloromethane	7.15	83	5748	2.402	ug/L	97
39) cis-1,3-Dichloropropene	7.64	75	7142	2.270	ug/L	99
40) 4-Methyl-2-pentanone	7.83	43	14608	4.695	ug/L	99
42) Toluene	8.00	91	19422	2.461	ug/L	100
44) trans-1,3-Dichloropropene	8.24	75	6621	2.409	ug/L	95
45) 1,1,2-Trichloroethane	8.43	97	4155	2.313	ug/L	97
46) Tetrachloroethene	8.58	164	3281	2.589	ug/L	94
48) 2-Hexanone	8.72	43	12567	4.951	ug/L	95
49) Dibromochloromethane	8.84	129	4043	2.301	ug/L	96
50) 1,2-Dibromoethane	8.95	107	4436	2.350	ug/L #	98
51) Chlorobenzene	9.47	112	11224	2.362	ug/L	99
52) Ethylbenzene	9.60	91	19389	2.236	ug/L	98
53) m,p-Xylene	9.72	106	7256	2.268	ug/L	100
54) o-xylene	10.13	106	6730	2.124	ug/L	99
55) Styrene	10.14	104	10997	2.082	ug/L	96
57) 1,1,2,2-Tetrachloroethane	10.81	83	7474	2.309	ug/L #	97
59) Bromoform	10.32	173	2422	2.090	ug/L #	96
60) 1,2,3-Trichloropropane	10.85	75	6402	2.595	ug/L	97
61) Isopropylbenzene	10.51	105	18345	2.349	ug/L	98
62) 1,3,5-Trimethylbenzene	11.11	105	15041	2.246	ug/L	97
63) 1,2,4-Trimethylbenzene	11.49	105	14377	2.150	ug/L	96
64) 1,3-Dichlorobenzene	11.77	146	8052	2.451	ug/L	95
65) 1,4-Dichlorobenzene	11.86	146	7524	2.275	ug/L	93
67) 1,2-Dichlorobenzene	12.23	146	8331	2.505	ug/L	99
68) 1,2-Dibromo-3-chloropropan	13.01	75	1668	2.366	ug/L #	76
69) 1,3,5-Trichlorobenzene	13.24	180	4614	2.026	ug/L	95
70) 1,2,4-trichlorobenzene	13.85	180	3708	1.952	ug/L	96
71) Naphthalene	14.10	128	10379	1.550	ug/L	99
72) 1,2,3-Trichlorobenzene	14.34	180	3590	1.897	ug/L	94

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



#2

Dichlorodifluoromethane

Concen: 2.396 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Instrument :

MSVOA_U

ClientSampleID :

MDL03

Tot Ion: 85 Resp: 4237

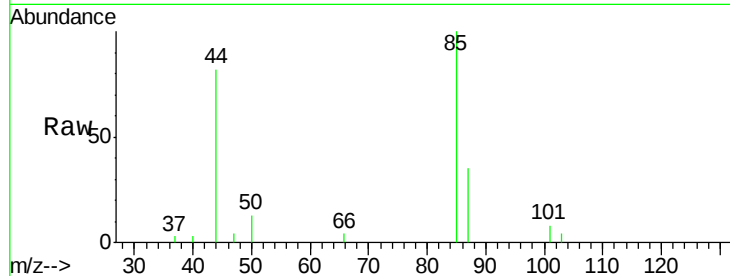
Ion Ratio Lower Upper

85 100

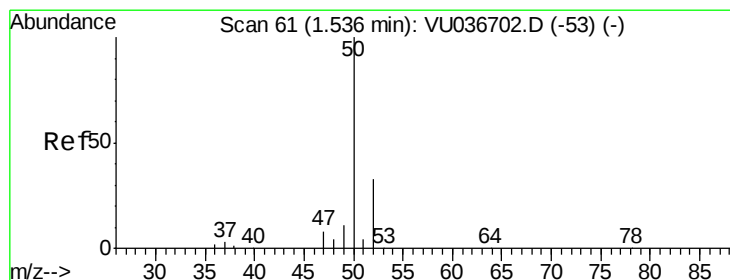
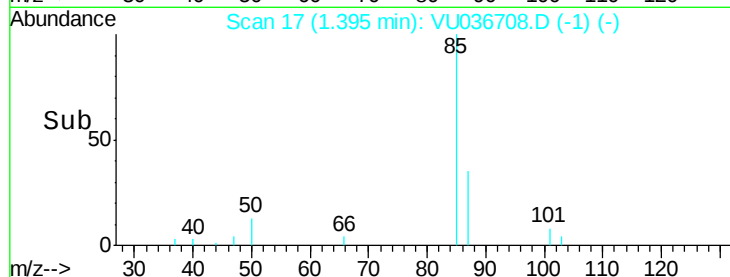
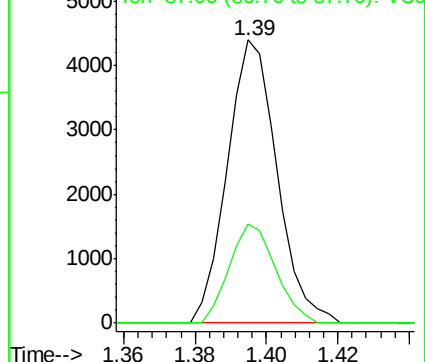
87 32.6 25.9 38.9

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Abundance Ion 85.00 (84.70 to 85.70): VU036708.D (-10) (-)



#3

Chloromethane

Concen: 2.553 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU036708.D

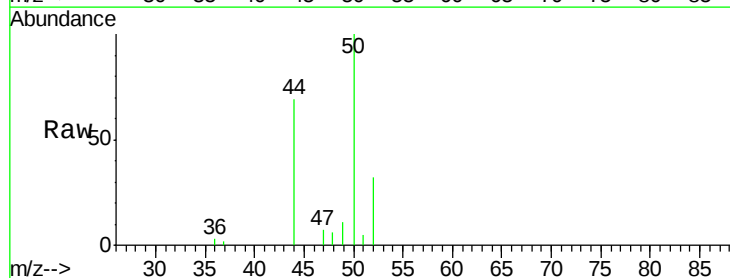
Acq: 10 Feb 2020 13:13

Tgt Ion: 50 Resp: 5348

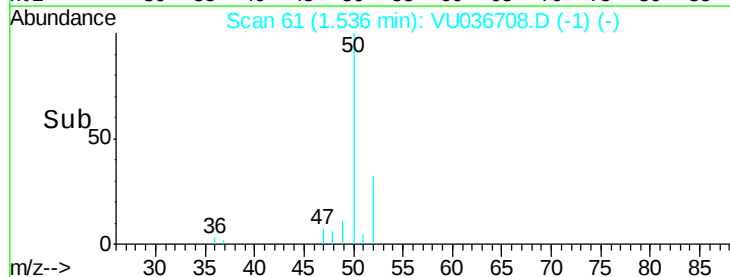
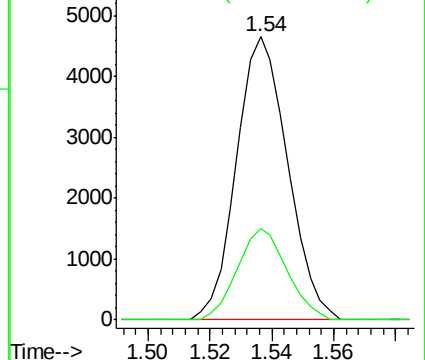
Ion Ratio Lower Upper

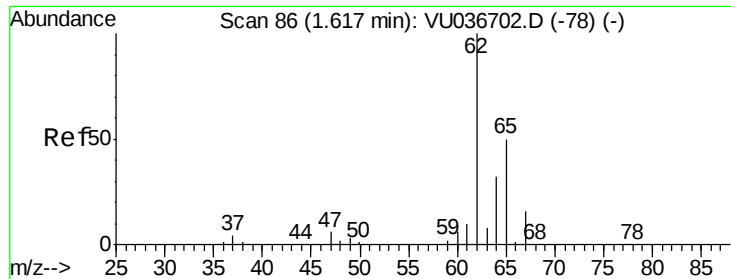
50 100

52 32.5 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU036708.D (-53) (-)





#5

Vinyl chloride

Concen: 2.317 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 62 Resp: 5228

Ion Ratio Lower Upper

62 100

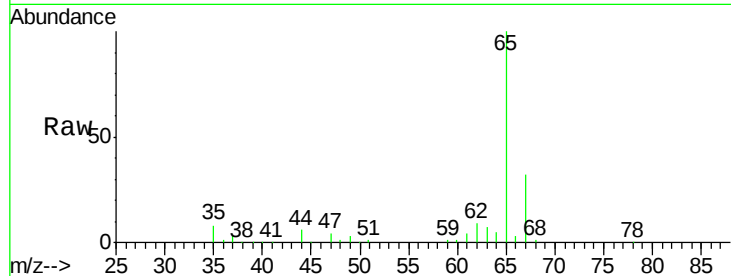
64 57.0 23.4 43.6#

Manual Integrations

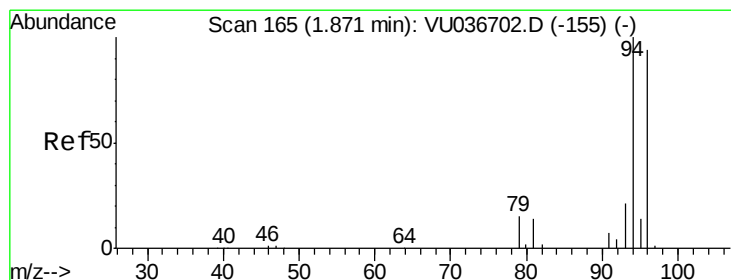
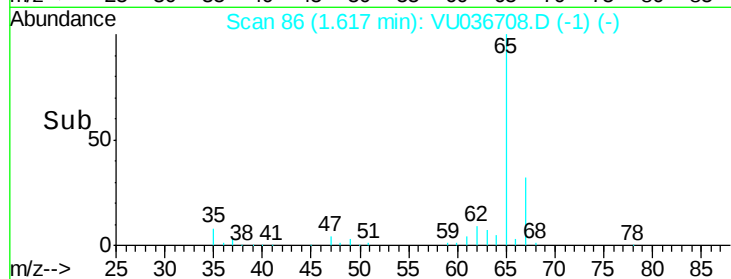
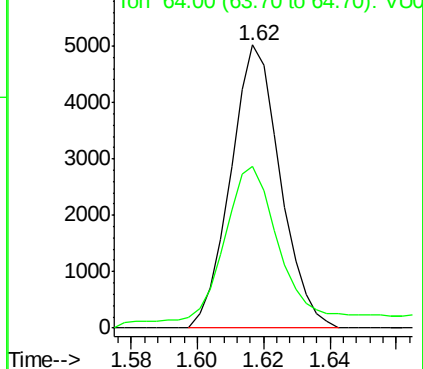
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Abundance Ion 62.00 (61.70 to 62.70): VU036708.D (-1) (-)



#6

Bromomethane

Concen: 2.290 ug/L

RT: 1.87 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU036708.D

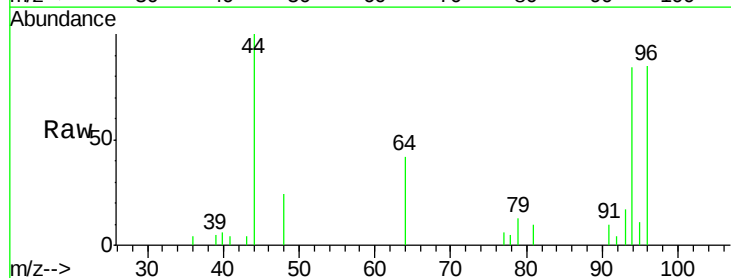
Acq: 10 Feb 2020 13:13

Tgt Ion: 94 Resp: 3239

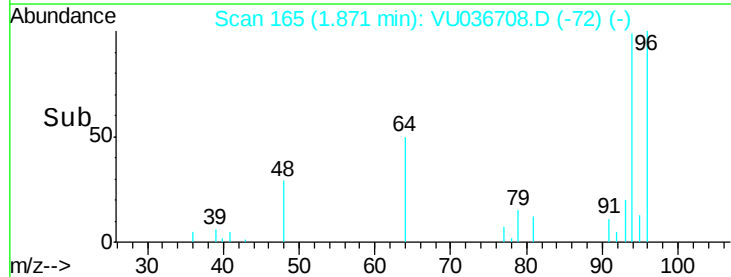
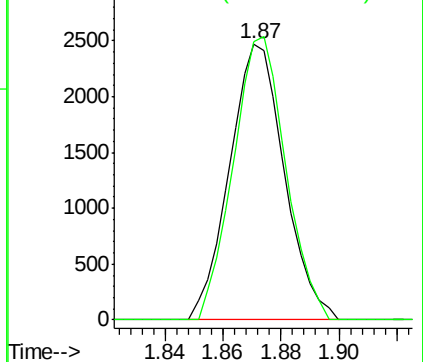
Ion Ratio Lower Upper

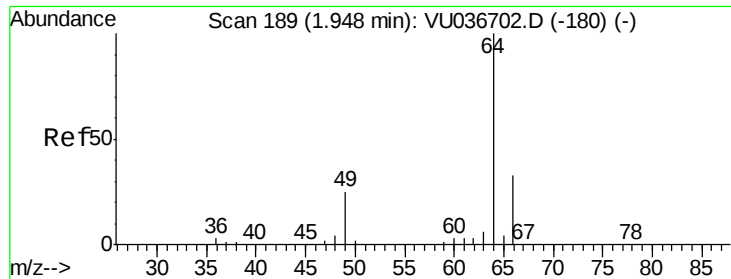
94 100

96 100.8 66.3 123.1



Abundance Ion 94.00 (93.70 to 94.70): VU036708.D (-72) (-)





#8

Chloroethane

Concen: 2.450 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 64 Resp: 3508

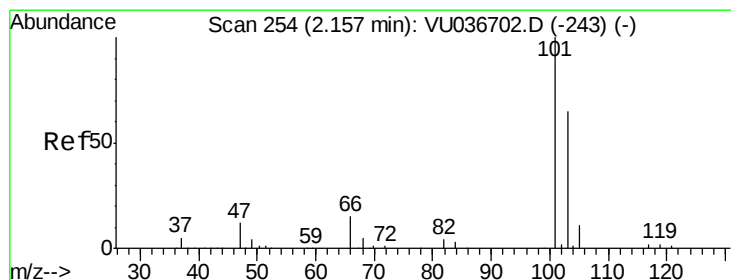
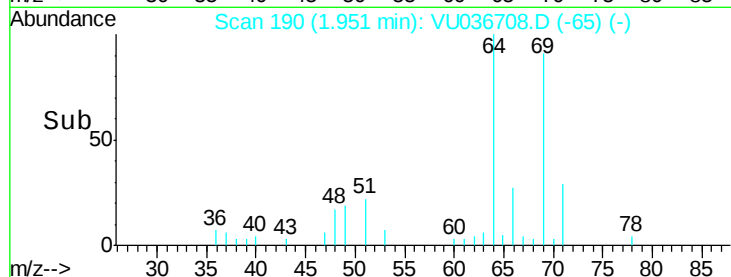
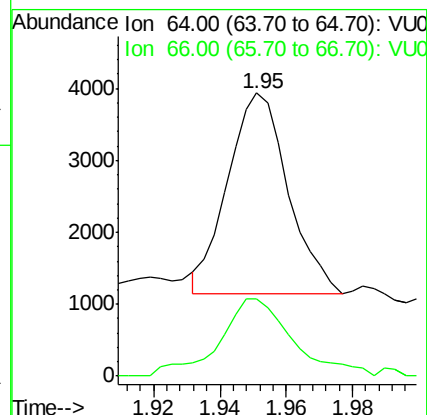
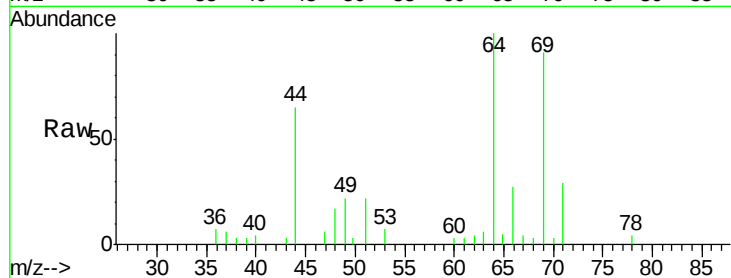
Ion Ratio Lower Upper

64 100

66 27.3 22.1 41.1

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#9

Trichlorofluoromethane

Concen: 2.269 ug/L

RT: 2.16 min Scan# 255

Delta R.T. 0.00 min

Lab File: VU036708.D

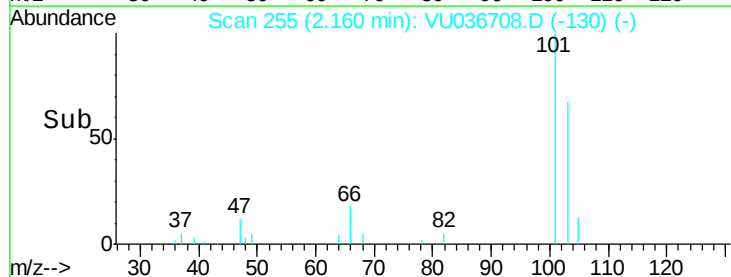
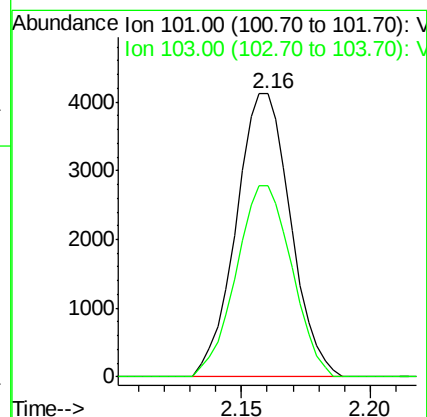
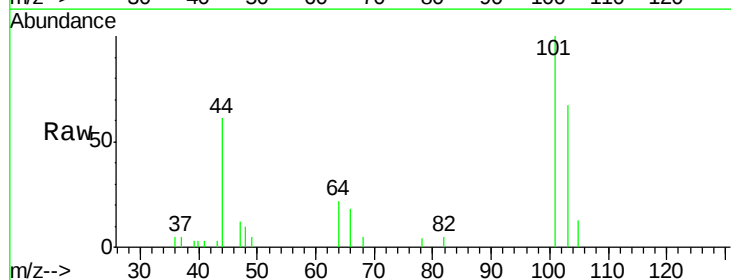
Acq: 10 Feb 2020 13:13

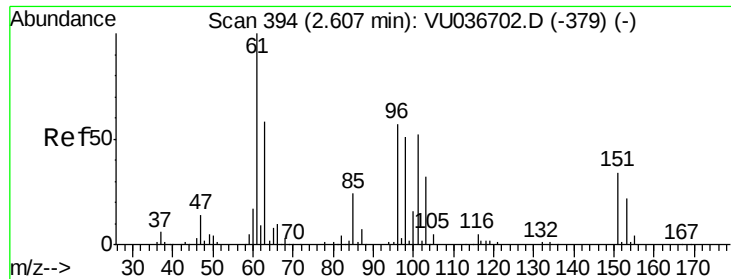
Tgt Ion: 101 Resp: 6083

Ion Ratio Lower Upper

101 100

103 68.7 51.6 77.4





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 2.980 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Instrument :

MSVOA_U

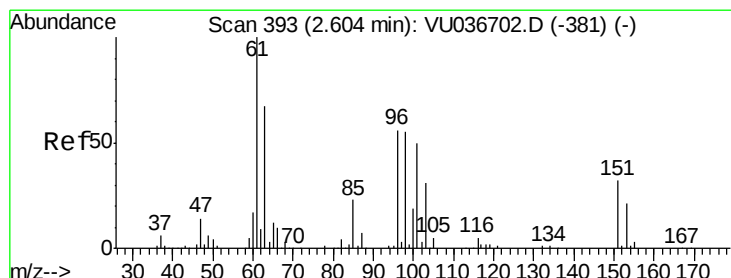
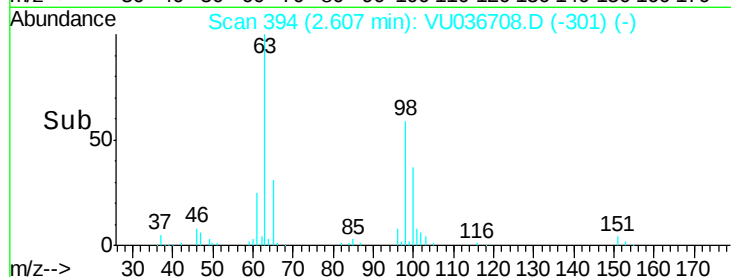
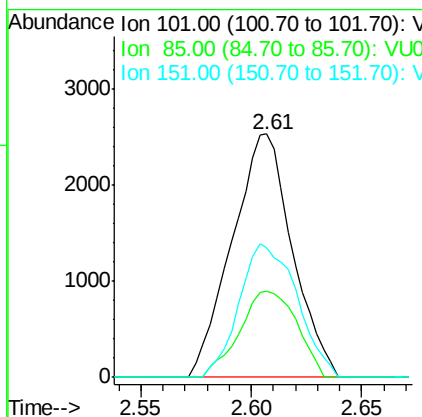
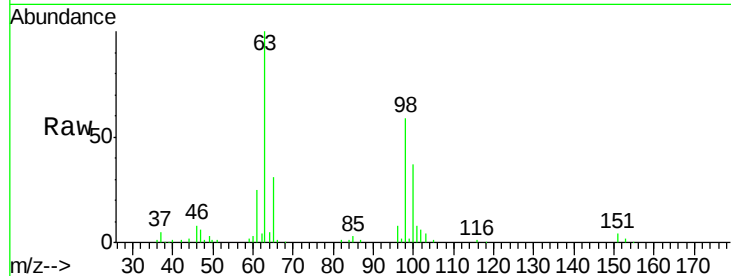
ClientSampleId :

MDL03

Tot Ion:	101	Resp:	4785
Ion Ratio	Lower	Upper	
101	100		
85	33.7	36.5	54.7#
151	52.7	52.6	78.8

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#12

1,1-Dichloroethene

Concen: 2.863 ug/L

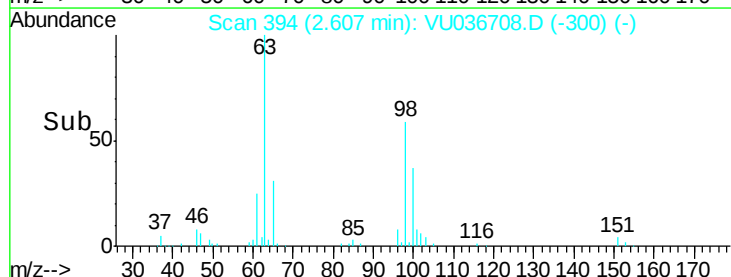
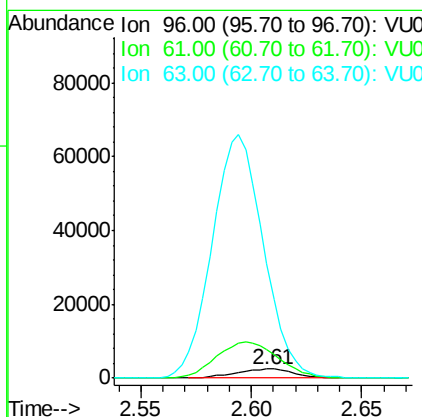
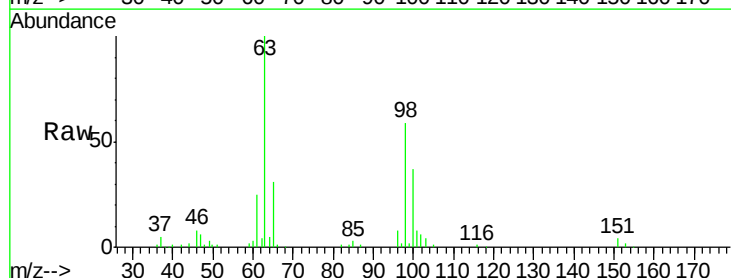
RT: 2.61 min Scan# 394

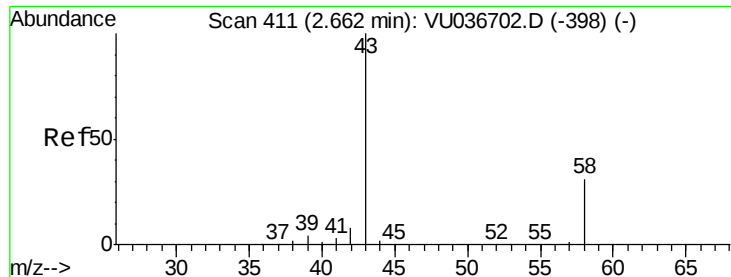
Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Tgt Ion:	96	Resp:	4475
Ion Ratio	Lower	Upper	
96	100		
61	308.2	124.4	231.0#
63	1256.5	83.4	155.0#





#13

Acetone

Concen: 6.965 ug/L

RT: 2.66 min Scan# 412

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 43 Resp: 10773

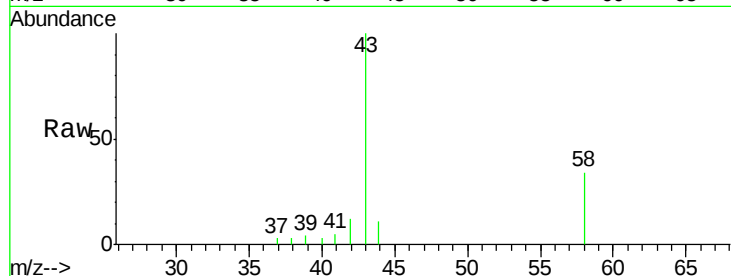
Ion Ratio Lower Upper

43 100

58 31.4 0.0 64.0

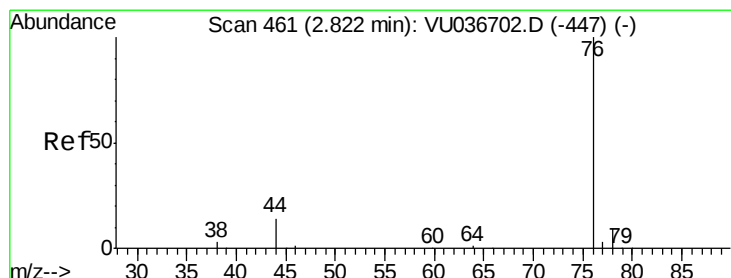
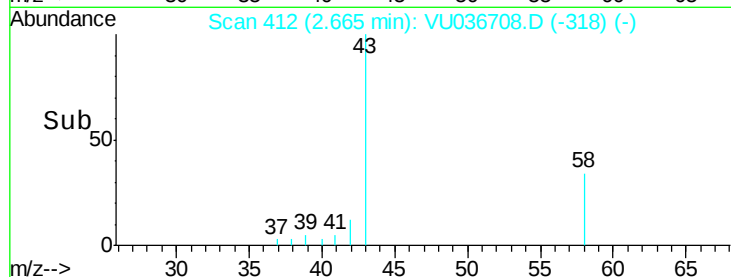
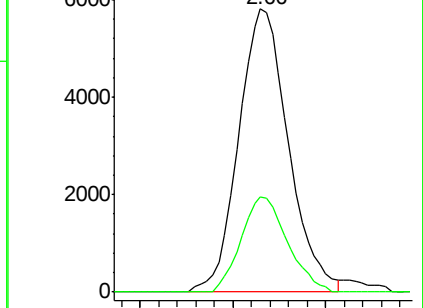
Manual Integrations
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Abundance Ion 43.00 (42.70 to 43.70): VU036708.D (-318) (-)

Ion 58.00 (57.70 to 58.70): VU036708.D (-318) (-)



#14

Carbon disulfide

Concen: 2.384 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036708.D

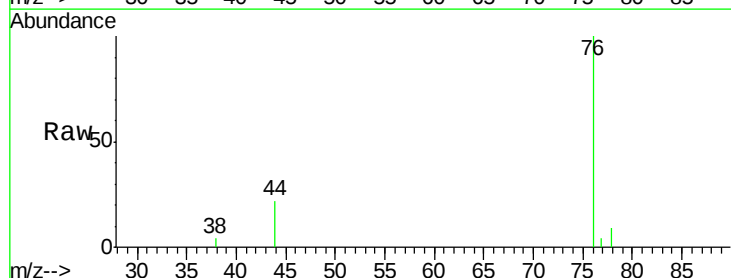
Acq: 10 Feb 2020 13:13

Tgt Ion: 76 Resp: 11136

Ion Ratio Lower Upper

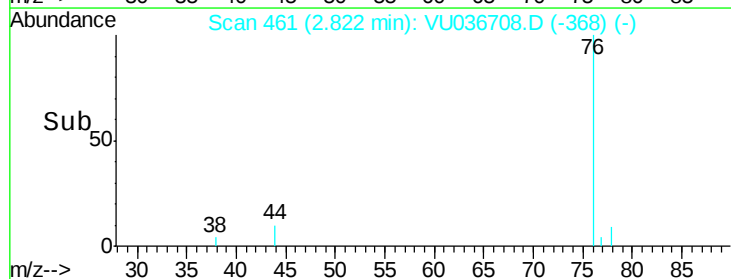
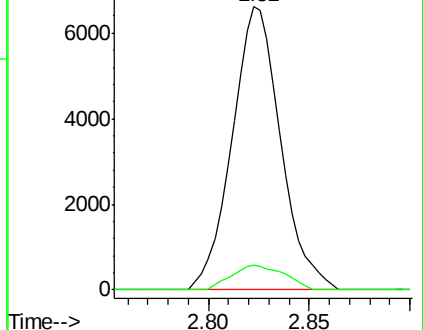
76 100

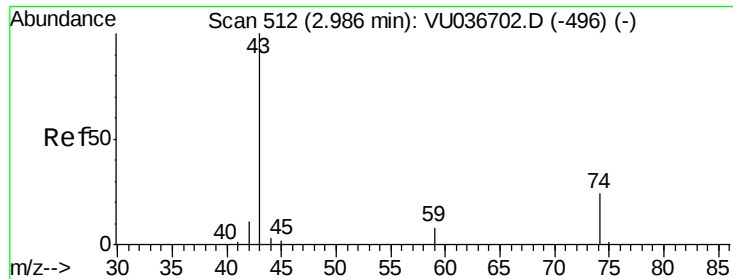
78 8.6 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU036708.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VU036708.D (-368) (-)





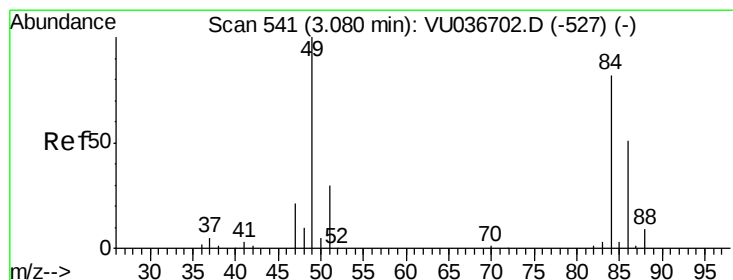
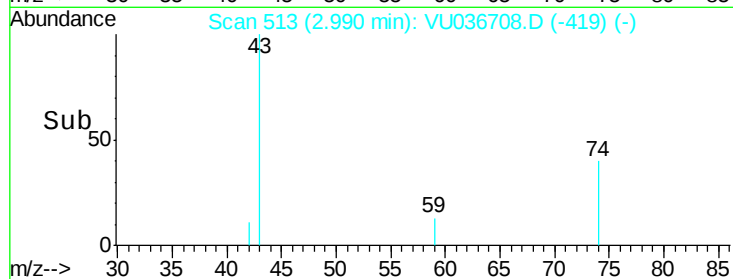
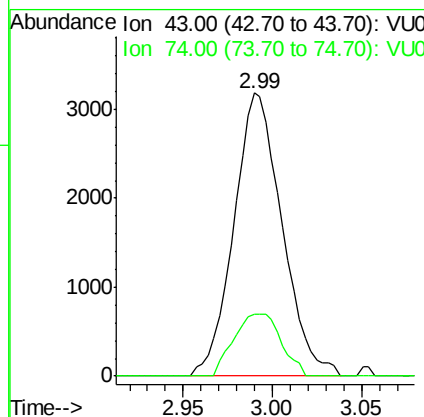
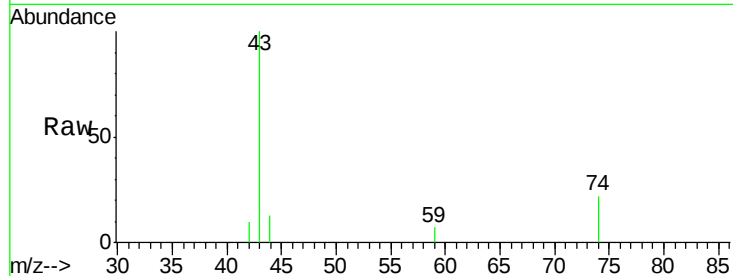
#15
Methyl Acetate
Concen: 2.680 ug/L
RT: 2.99 min Scan# 513
Delta R.T. 0.00 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion: 43 Resp: 5993
Ion Ratio Lower Upper
43 100
74 21.4 18.7 28.1

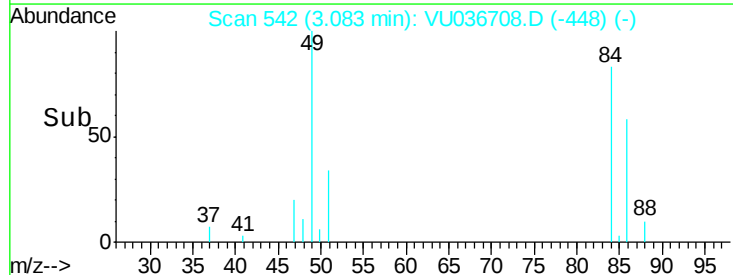
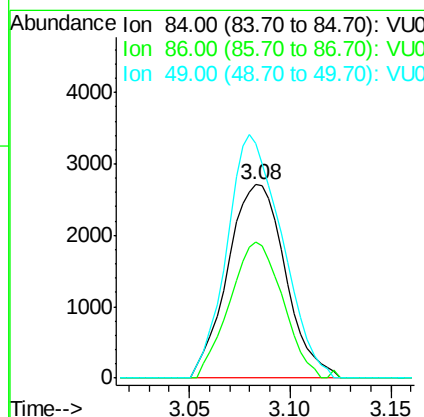
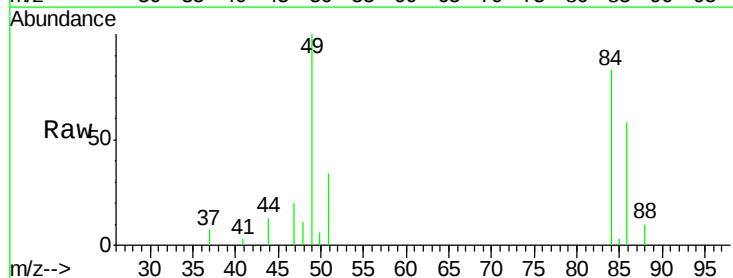
Manual Integrations
APPROVED

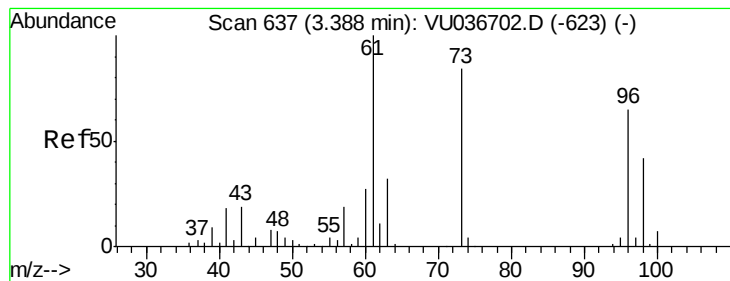
MMDadoda
2/12/2020 3:10:05 PM



#16
Methylene chloride
Concen: 2.814 ug/L
RT: 3.08 min Scan# 542
Delta R.T. 0.00 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

Tgt Ion: 84 Resp: 5430
Ion Ratio Lower Upper
84 100
86 70.3 44.4 82.5
49 121.2 89.2 165.8





#17

trans-1,2-Dichloroethene

Concen: 2.440 ug/L

RT: 3.39 min Scan# 639

Delta R.T. 0.01 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 96 Resp: 4058

Ion Ratio Lower Upper

96 100

61 139.2 103.4 192.0

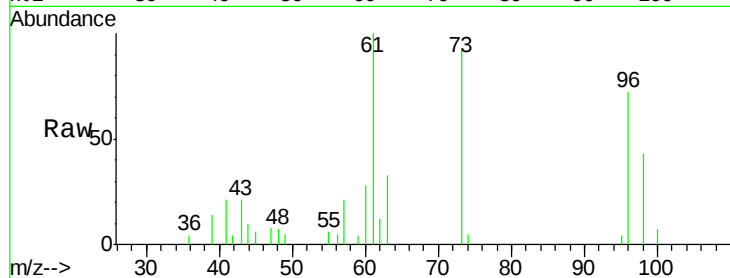
98 59.2 45.4 84.2

Manual Integrations

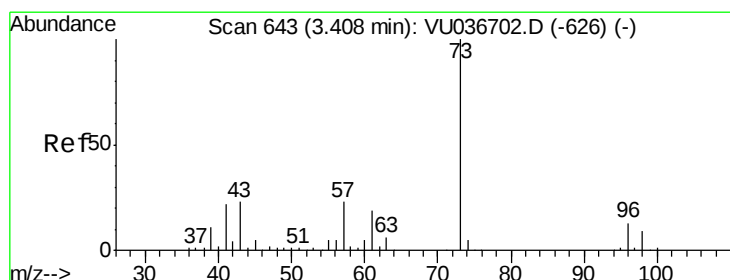
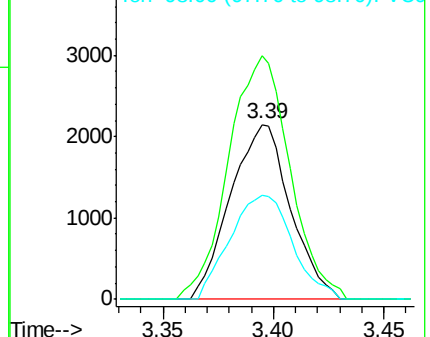
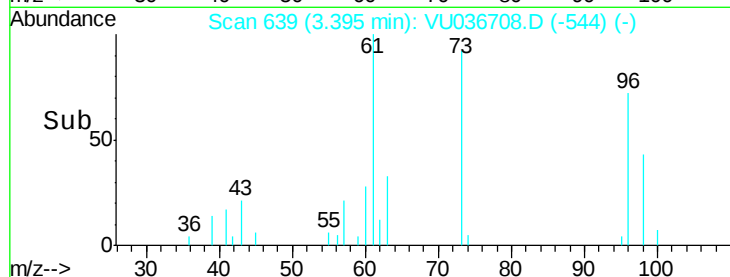
APPROVED

MMDadoda

2/12/2020 3:10:05 PM



Abundance Ion 96.00 (95.70 to 96.70): VU036708.D (-544) (-)



#18

Methyl tert-butyl Ether

Concen: 2.383 ug/L

RT: 3.41 min Scan# 644

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

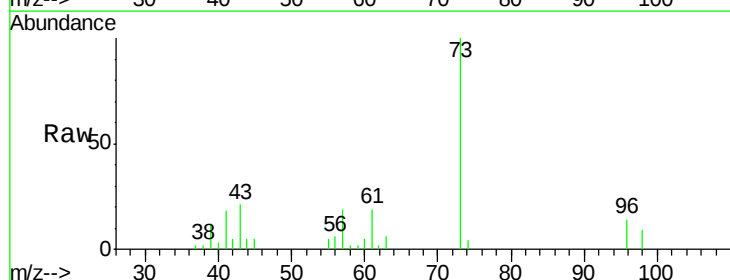
Tgt Ion: 73 Resp: 13758

Ion Ratio Lower Upper

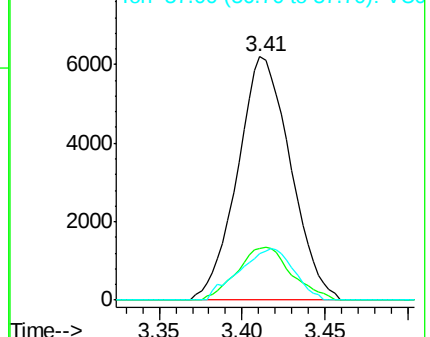
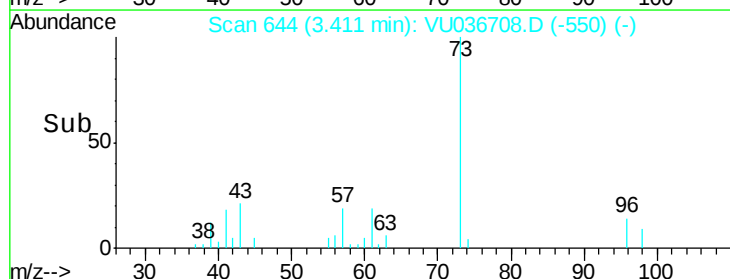
73 100

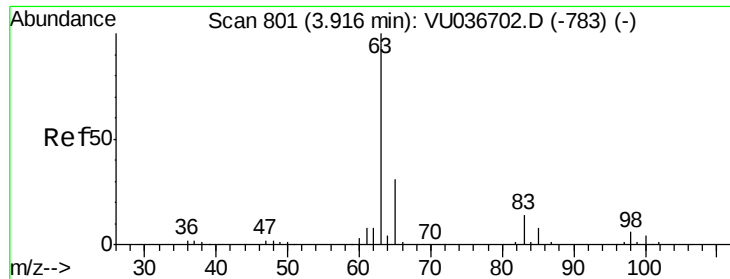
43 22.3 18.6 28.0

57 21.6 18.3 27.5



Abundance Ion 73.00 (72.70 to 73.70): VU036708.D (-550) (-)





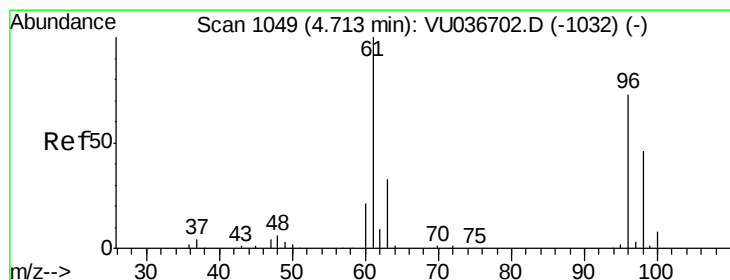
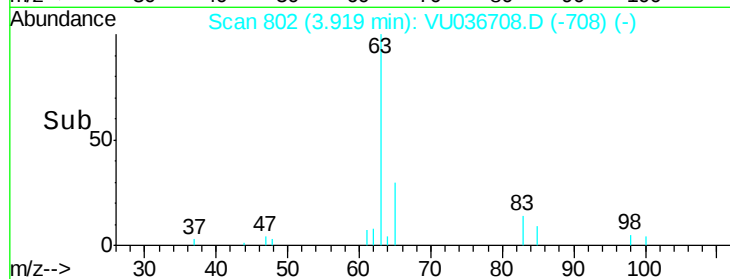
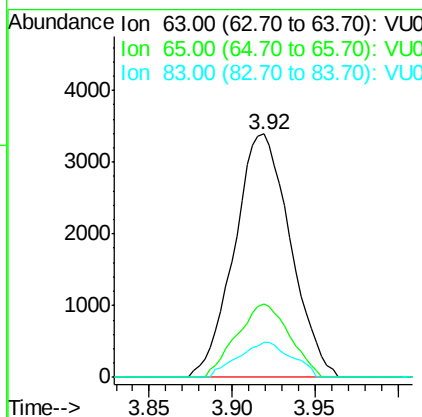
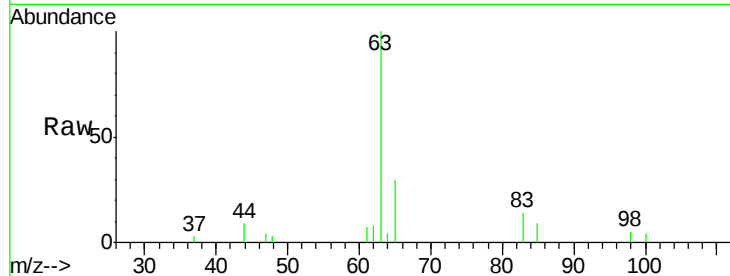
#19
 1,1-Dichloroethane
 Concen: 2.403 ug/L
 RT: 3.92 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.9	22.0	40.8
83	14.3	10.1	18.7

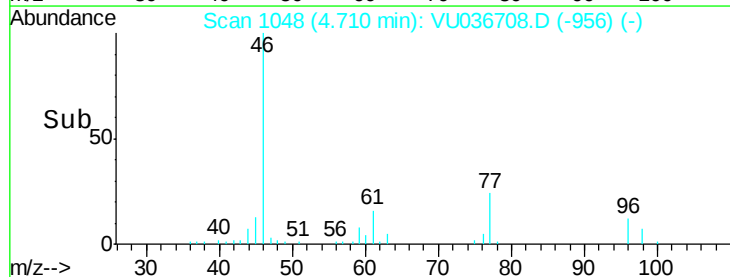
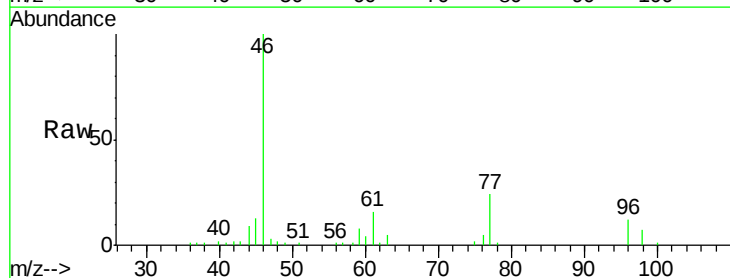
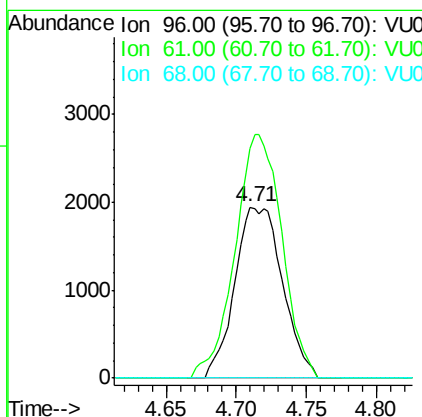
Manual Integrations
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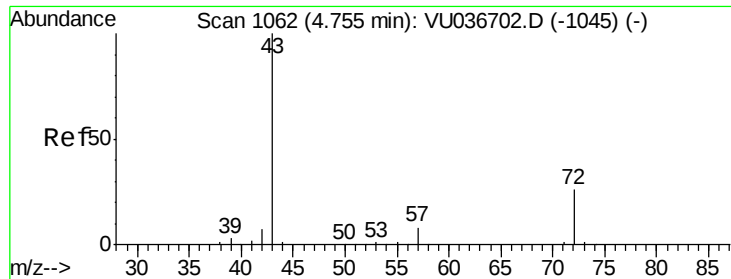
MMDadoda
 2/12/2020 3:10:05 PM



#20
 cis-1,2-Dichloroethene
 Concen: 2.437 ug/L m
 RT: 4.71 min Scan# 1048
 Delta R.T. -0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
96	100		
61	133.9	93.3	173.3
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 5.164 ug/L

RT: 4.77 min Scan# 1066

Delta R.T. 0.01 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 43 Resp: 9479

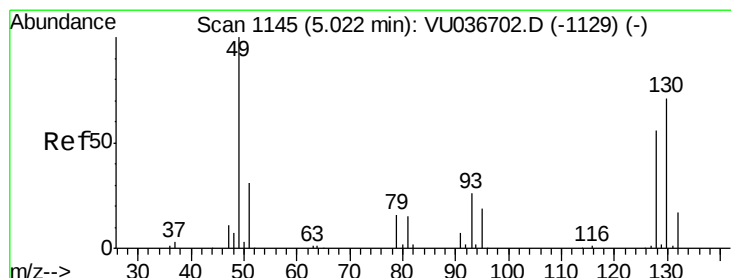
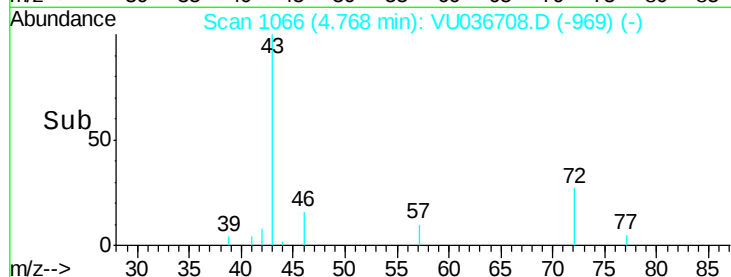
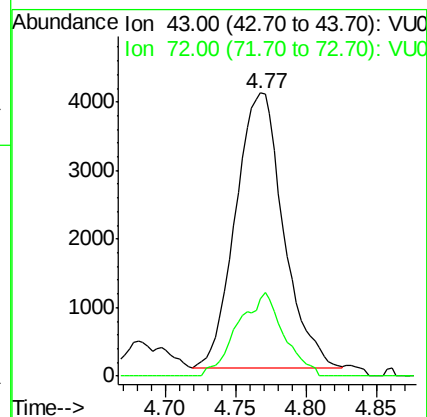
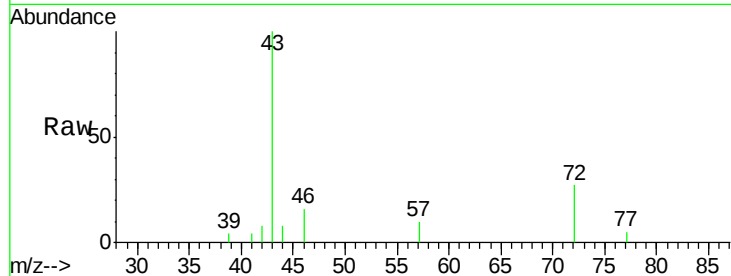
Ion Ratio Lower Upper

43 100

72 17.8 13.6 40.7

Manual Integrations
APPROVED

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2/12/2020 3:10:05 PM



#23

Bromochloromethane

Concen: 2.221 ug/L

RT: 5.03 min Scan# 1147

Delta R.T. 0.01 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Tgt Ion: 128 Resp: 1972

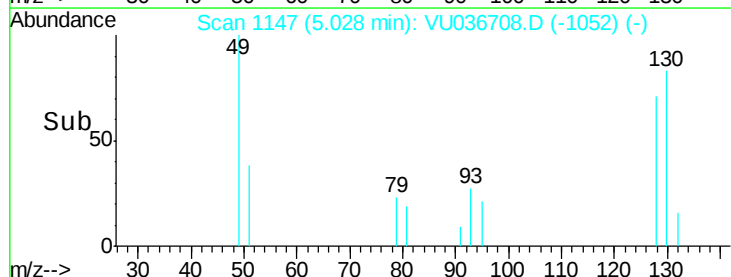
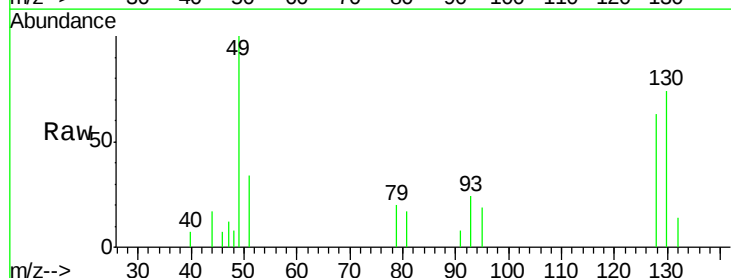
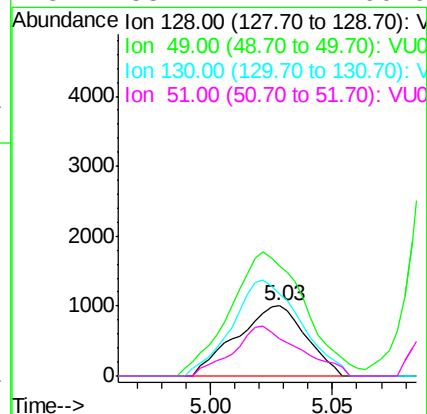
Ion Ratio Lower Upper

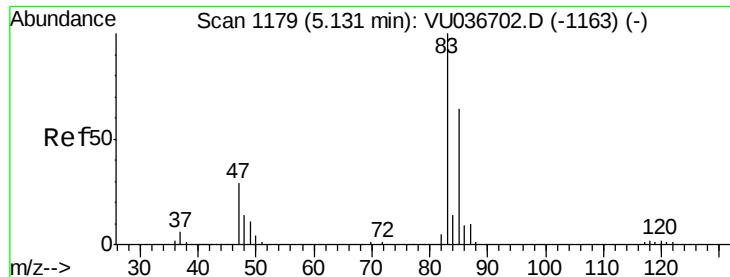
128 100

49 157.8 127.3 236.5

130 116.8 88.5 164.3

51 53.7 44.4 66.6





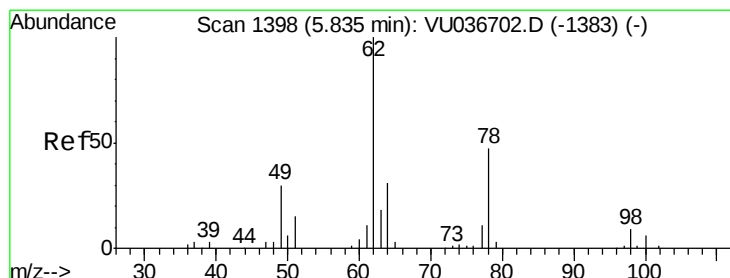
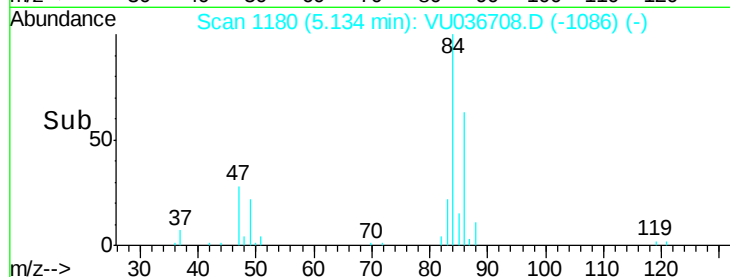
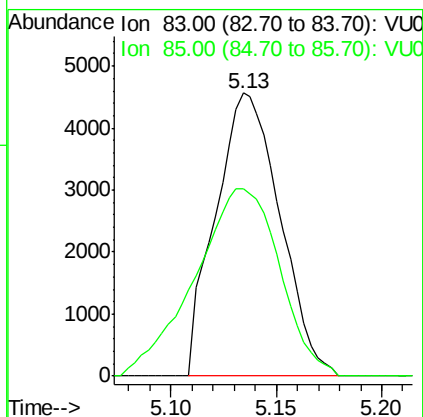
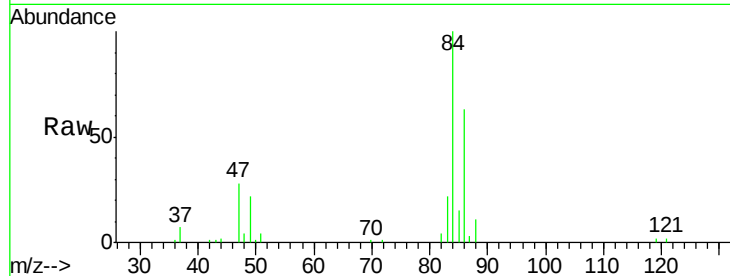
#25
Chloroform
Concen: 2.999 ug/L
RT: 5.13 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	83	Resp	9666
Ion Ratio	100	Lower	Upper
85	66.0	44.6	82.8

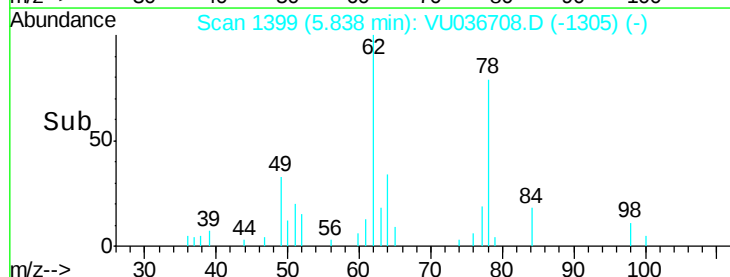
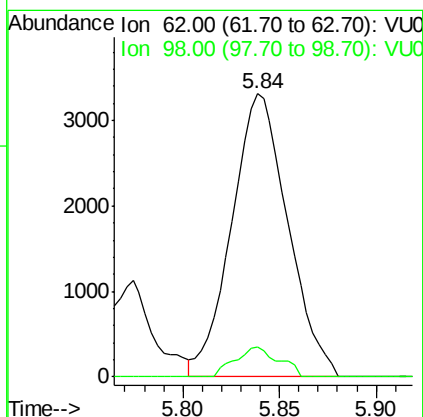
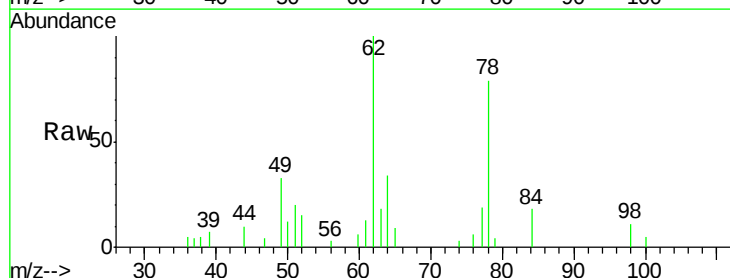
Manual Integrations
APPROVED

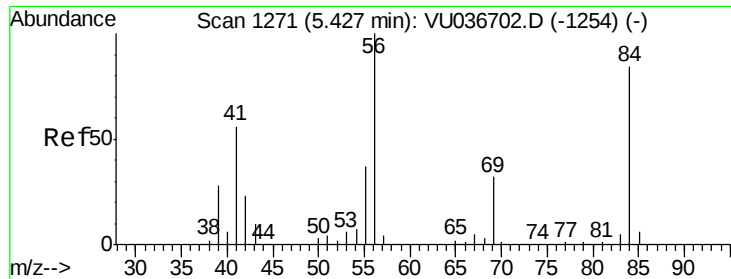
MMDadoda
2/12/2020 3:10:05 PM



#27
1,2-Dichloroethane
Concen: 2.470 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. 0.00 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

Tgt Ion	62	Resp	6695
Ion Ratio	100	Lower	Upper
98	10.7	7.0	10.4#





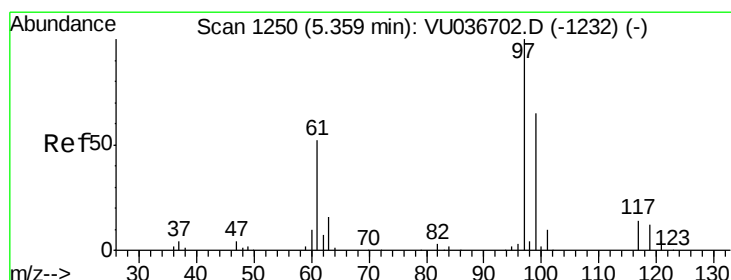
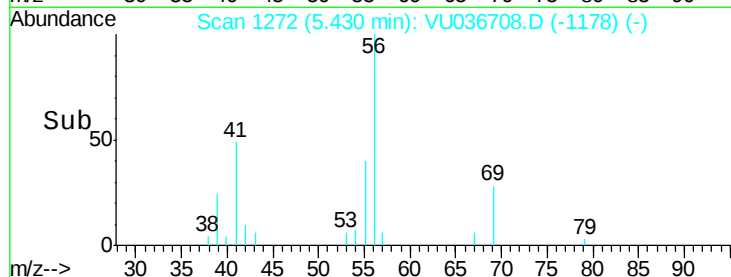
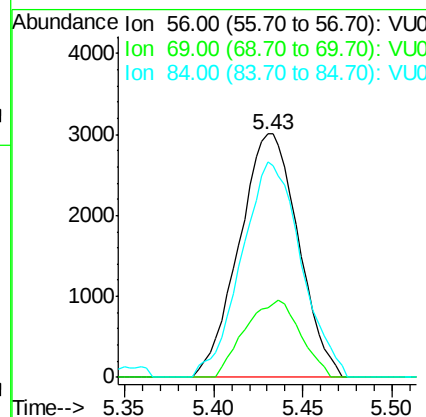
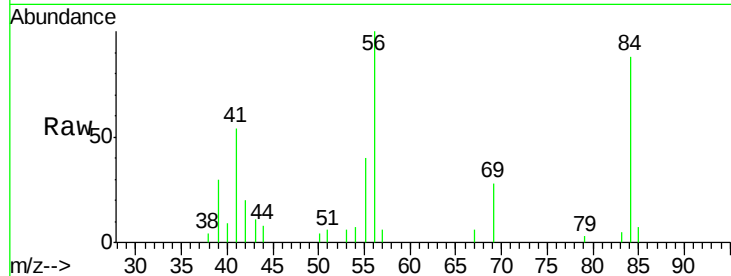
#29
Cyclohexane
Concen: 2.245 ug/L
RT: 5.43 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.7	25.0	37.4
84	89.0	68.2	102.2

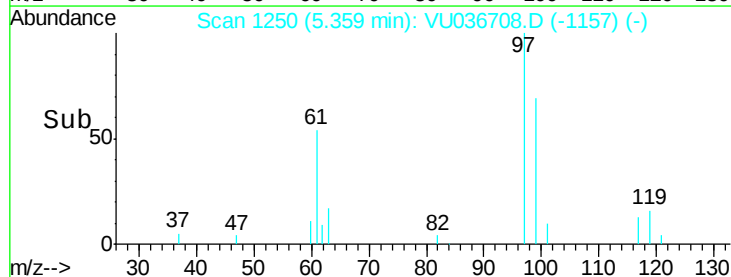
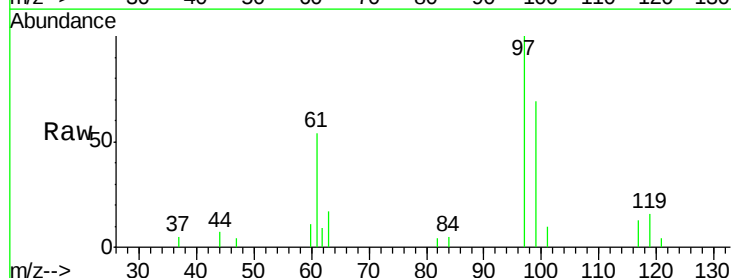
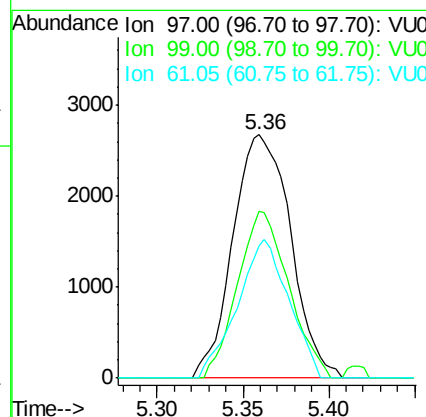
Manual Integrations
APPROVED

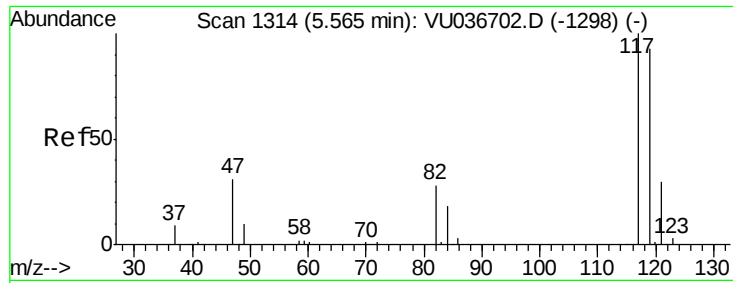
MMDadoda
2/12/2020 3:10:05 PM



#30
1,1,1-Trichloroethane
Concen: 2.432 ug/L
RT: 5.36 min Scan# 1250
Delta R.T. 0.00 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
97	100		
99	60.6	50.9	76.3
61	50.5	40.2	60.2





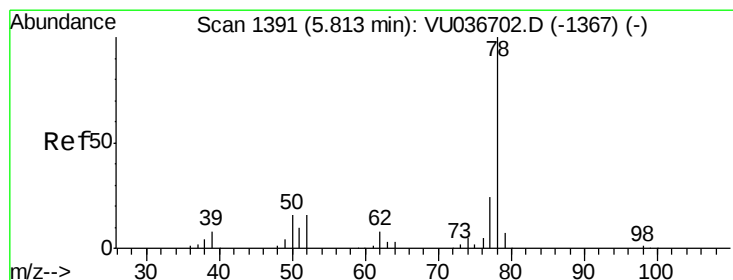
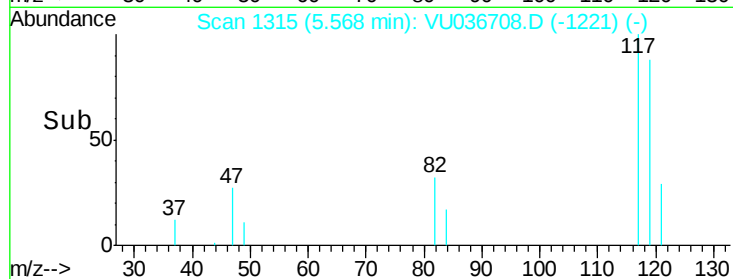
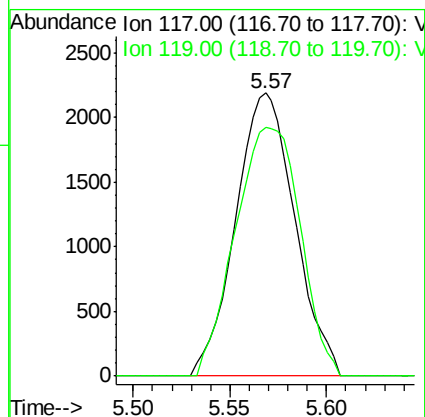
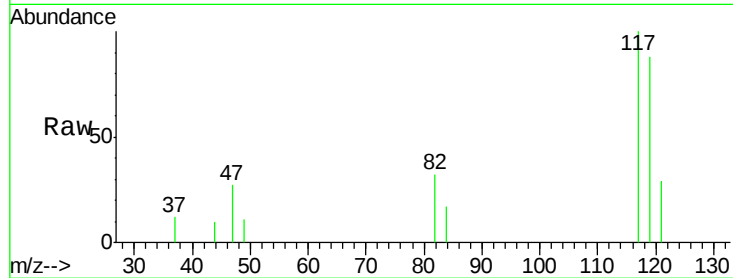
#31
Carbon tetrachloride
Concen: 2.248 ug/L
RT: 5.57 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion:117 Resp: 4669
Ion Ratio Lower Upper
117 100
119 96.5 76.2 114.4

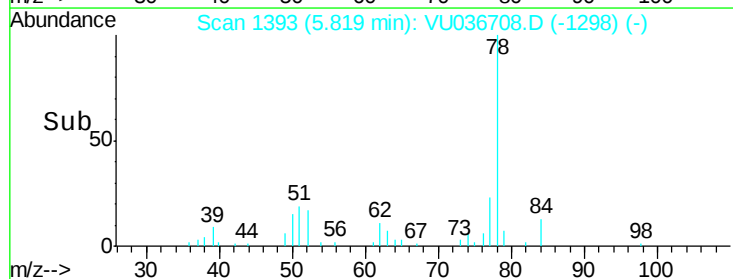
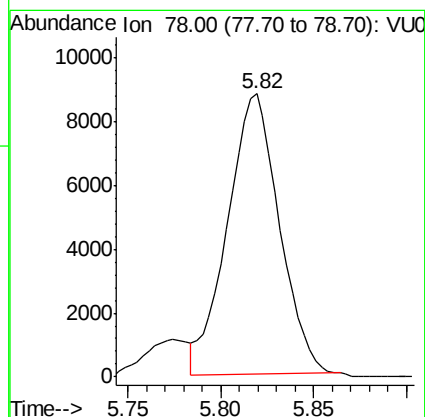
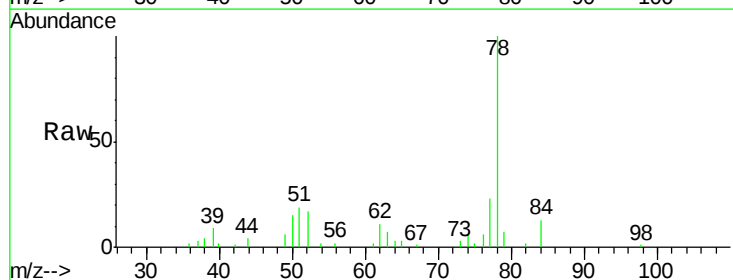
Manual Integrations
APPROVED

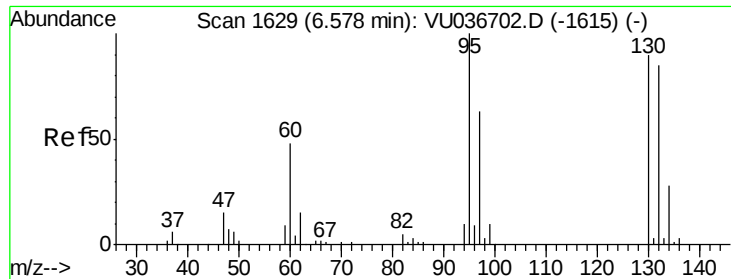
MMDadoda
2/12/2020 3:10:05 PM



#33
Benzene
Concen: 2.338 ug/L
RT: 5.82 min Scan# 1393
Delta R.T. 0.01 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

Tgt Ion: 78 Resp: 17075





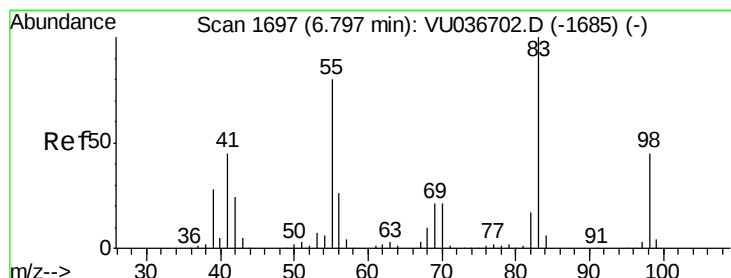
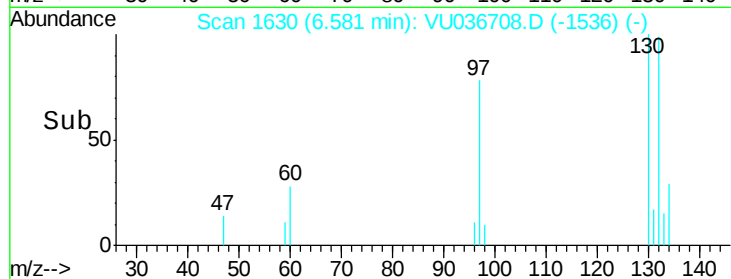
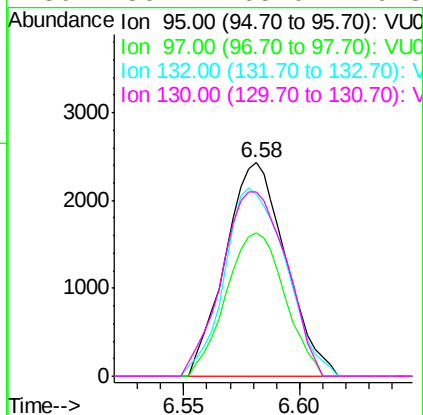
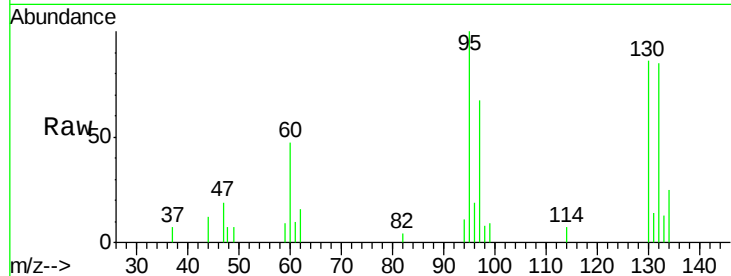
#34
 Trichloroethene
 Concen: 2.433 ug/L
 RT: 6.58 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion:	95	Resp:	4393
Ion	Ratio	Lower	Upper
95	100		
97	67.1	44.5	82.7
132	84.9	59.6	110.8
130	86.2	65.0	120.8

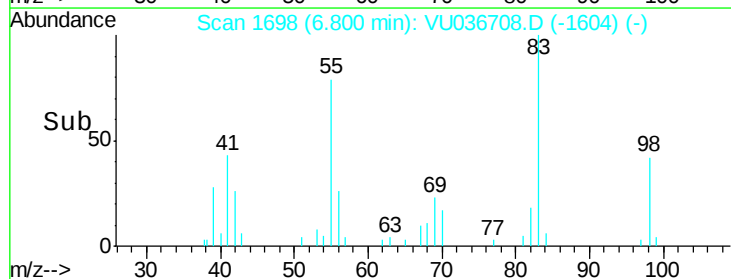
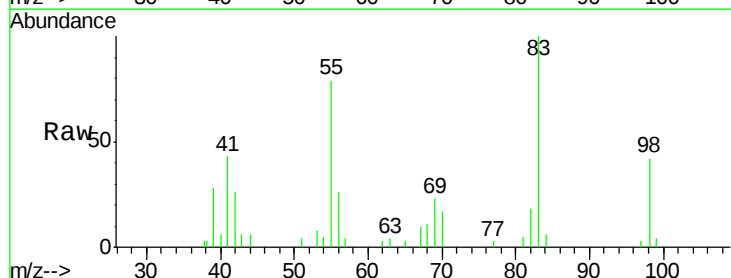
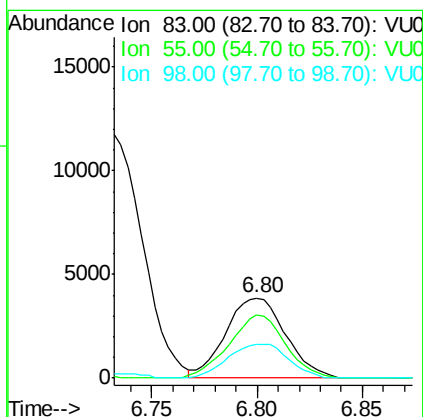
Manual Integrations
 APPROVED

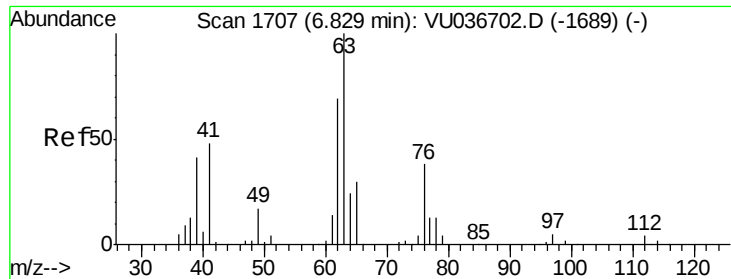
MMDadoda
 2/12/2020 3:10:05 PM



#35
 Methylcyclohexane
 Concen: 2.395 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Tgt Ion:	83	Resp:	7618
Ion	Ratio	Lower	Upper
83	100		
55	74.4	61.2	91.8
98	42.5	35.4	53.0





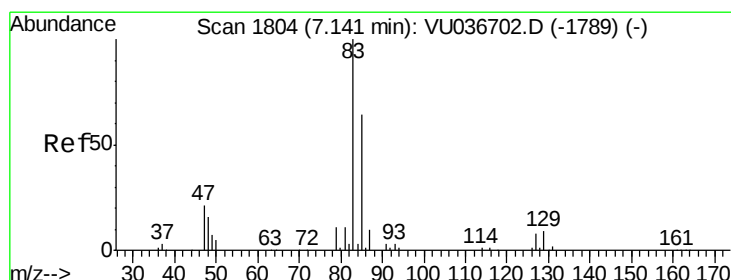
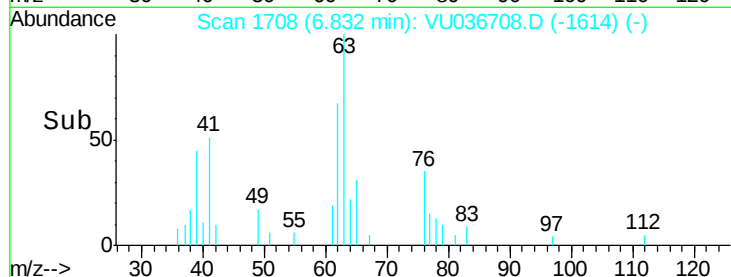
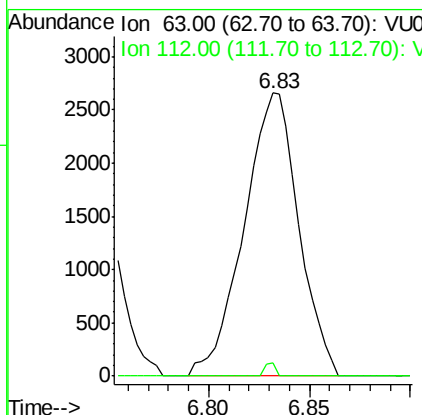
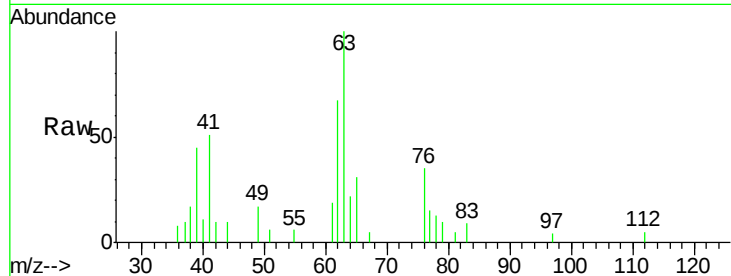
#37
 1,2-Dichloropropane
 Concen: 2.553 ug/L
 RT: 6.83 min Scan# 1708
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

Tot Ion: 63 Resp: 5028
 Ion Ratio Lower Upper
 63 100
 112 0.9 3.1 4.7#

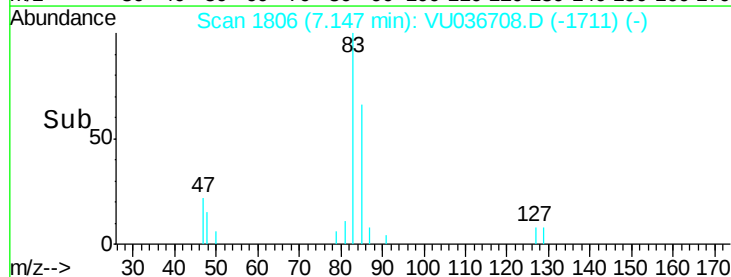
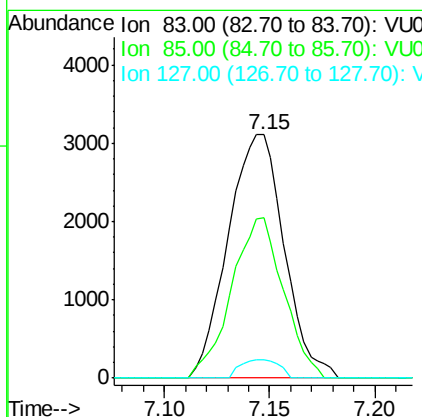
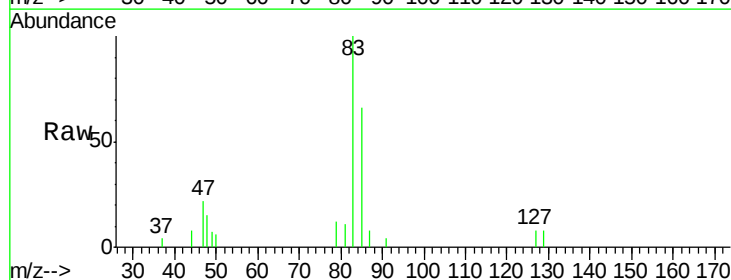
Manual Integrations
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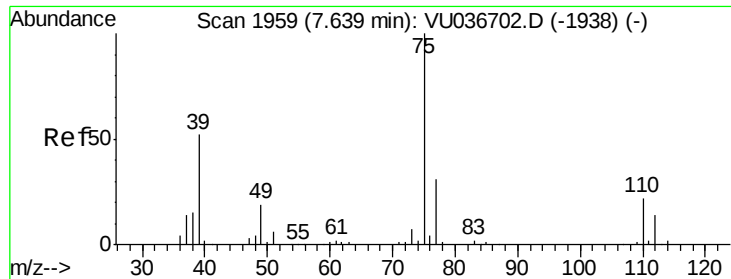
MMDadoda
 2/12/2020 3:10:05 PM



#38
 Bromodichloromethane
 Concen: 2.402 ug/L
 RT: 7.15 min Scan# 1806
 Delta R.T. 0.01 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Tgt Ion: 83 Resp: 5748
 Ion Ratio Lower Upper
 83 100
 85 65.7 43.9 81.5
 127 7.6 6.0 9.0





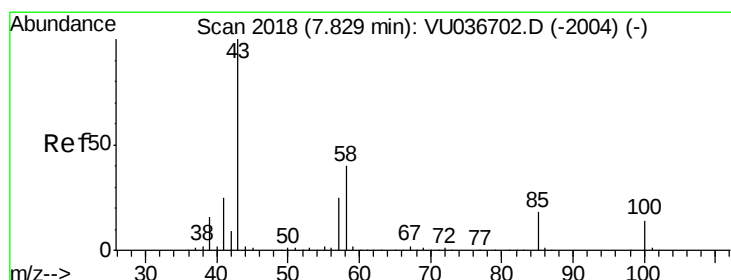
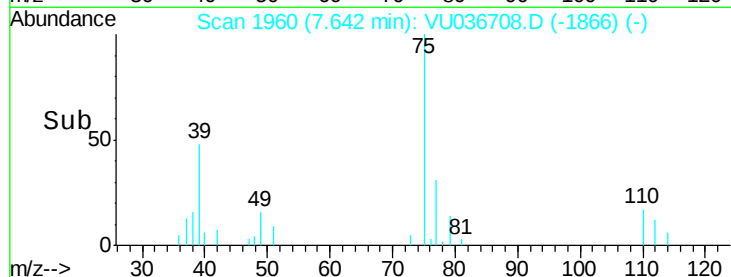
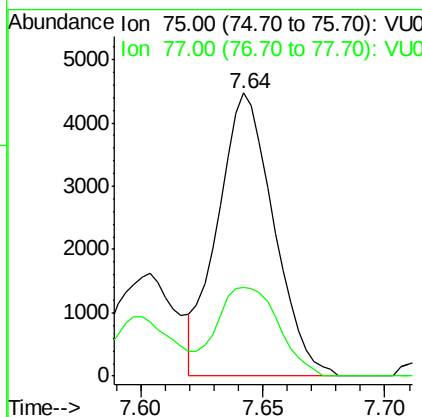
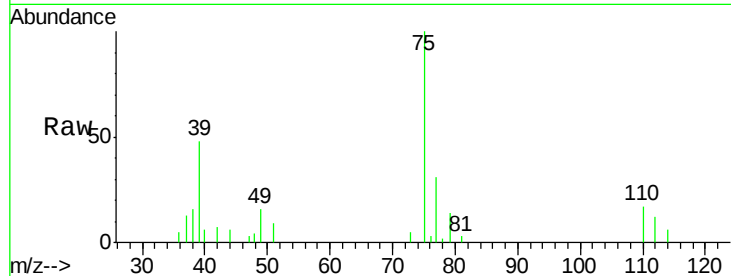
#39
 cis-1,3-Dichloropropene
 Concen: 2.270 ug/L
 RT: 7.64 min Scan# 1960
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

Tot Ion: 75 Resp: 7142
 Ion Ratio Lower Upper
 75 100
 77 31.2 22.3 41.5

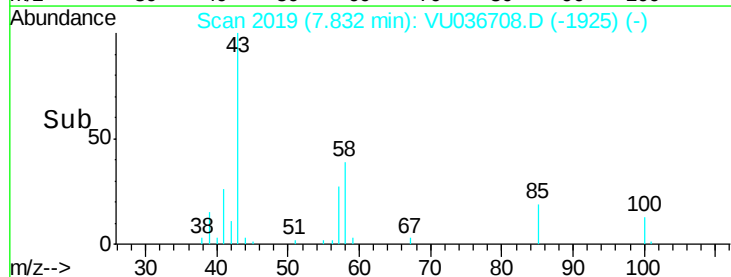
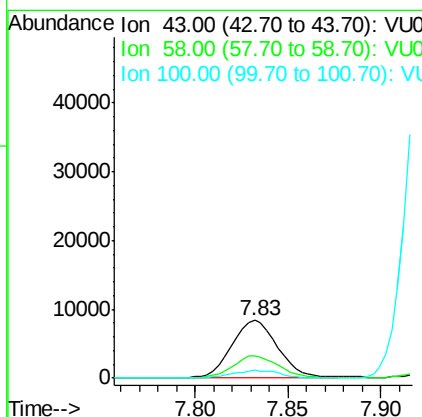
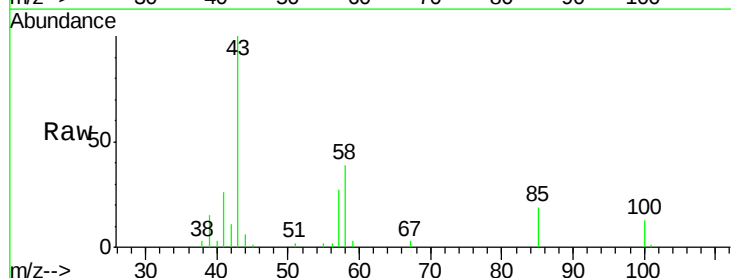
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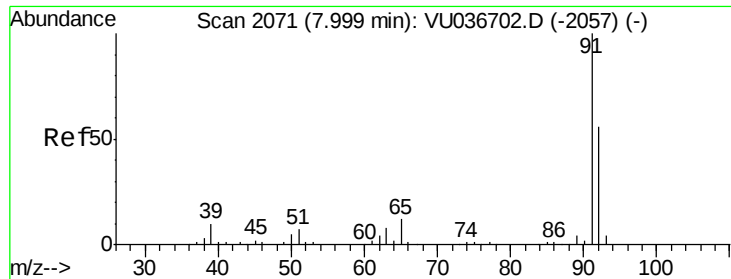
MMDadoda
 2/12/2020 3:10:05 PM



#40
 4-Methyl-2-pentanone
 Concen: 4.695 ug/L
 RT: 7.83 min Scan# 2019
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Tgt Ion: 43 Resp: 14608
 Ion Ratio Lower Upper
 43 100
 58 38.6 31.0 46.6
 100 13.4 11.4 17.2





#42

Toluene

Concen: 2.461 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 91 Resp: 19422

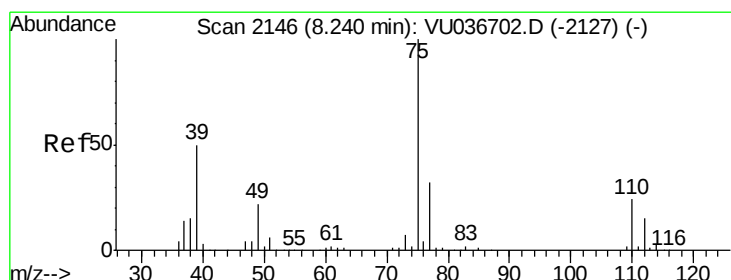
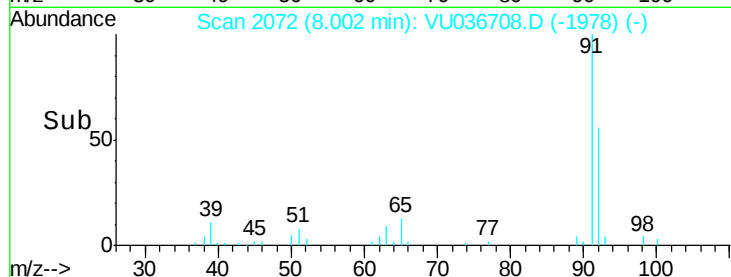
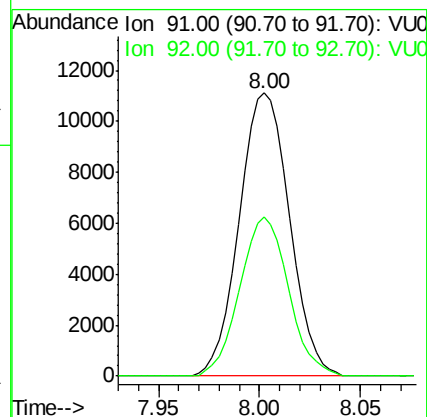
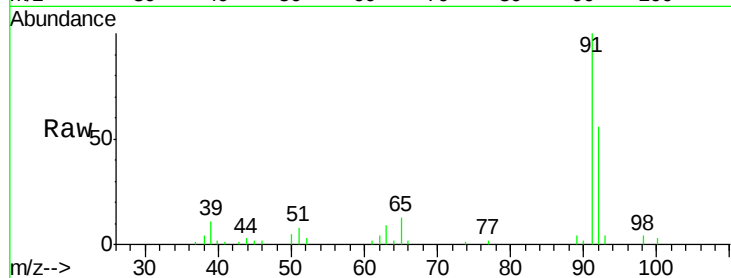
Ion Ratio Lower Upper

91 100

92 56.2 39.5 73.3

Manual Integrations
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MMDadoda
2/12/2020 3:10:05 PM



#44

trans-1,3-Dichloropropene

Concen: 2.409 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036708.D

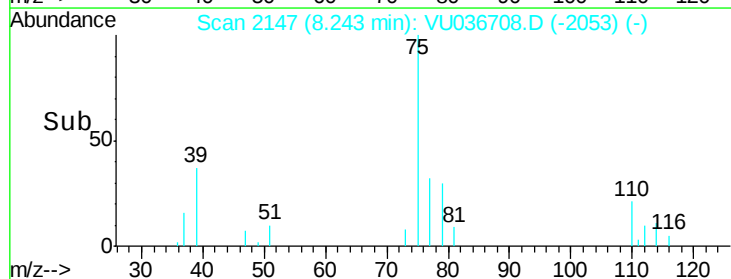
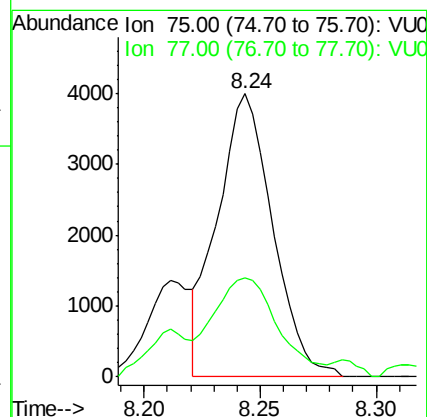
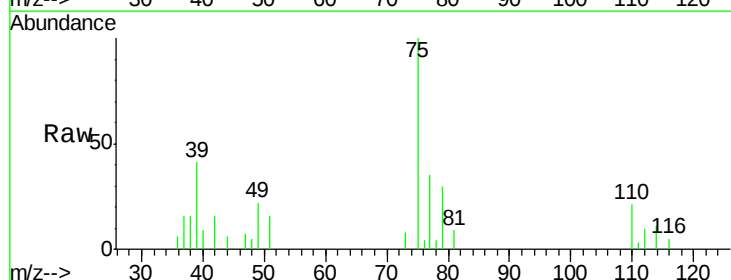
Acq: 10 Feb 2020 13:13

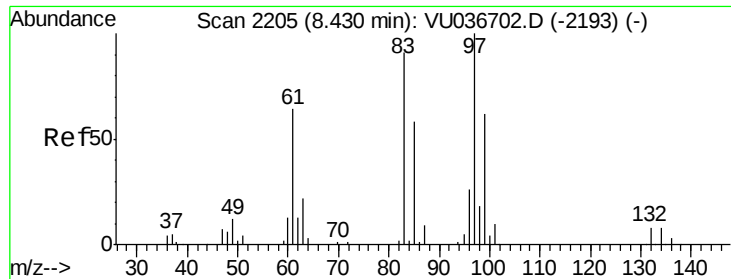
Tgt Ion: 75 Resp: 6621

Ion Ratio Lower Upper

75 100

77 35.2 22.6 42.0





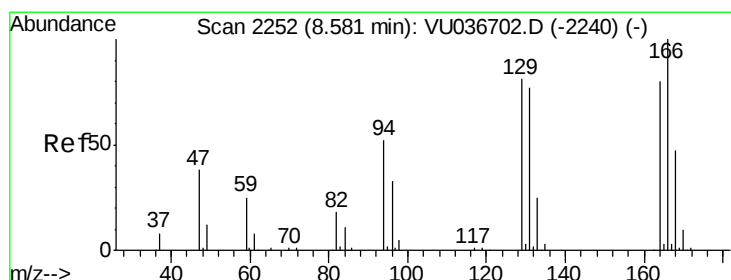
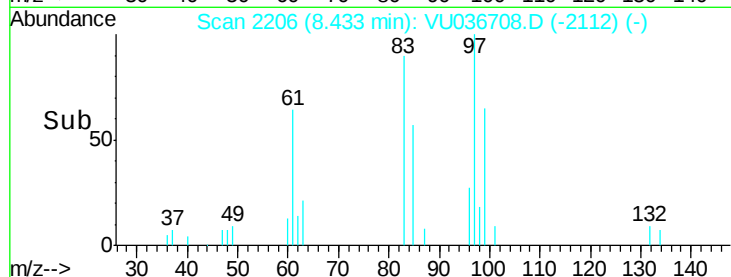
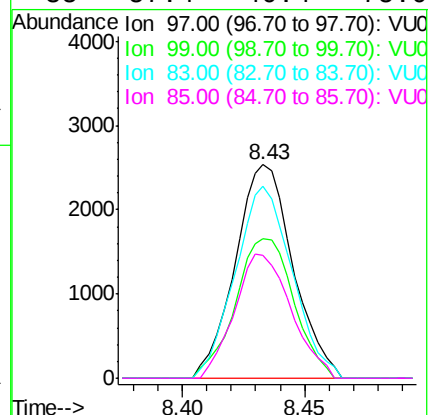
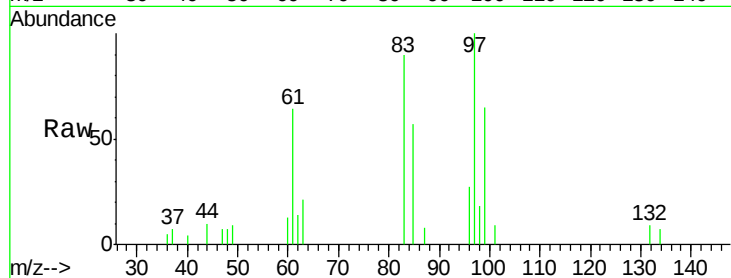
#45
 1,1,2-Trichloroethane
 Concen: 2.313 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion:	97	Resp:	4155
Ion	Ratio	Lower	Upper
97	100		
99	65.3	42.6	79.0
83	90.1	61.1	113.5
85	57.4	40.4	75.0

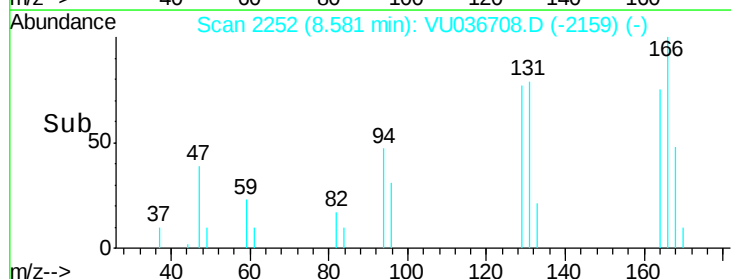
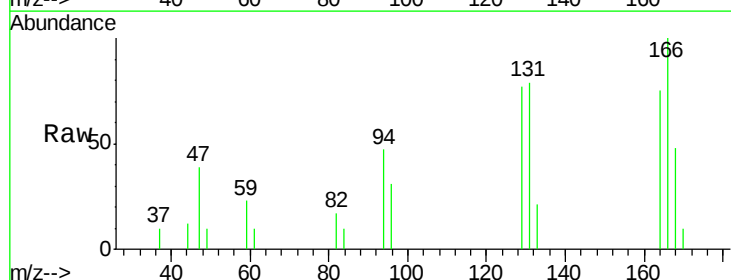
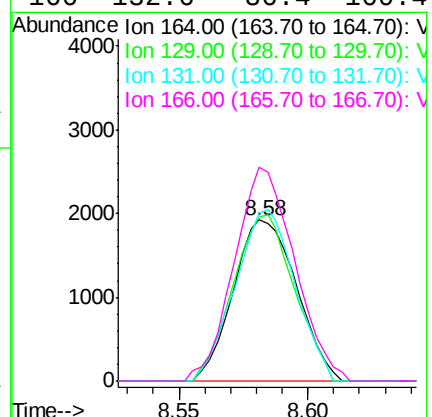
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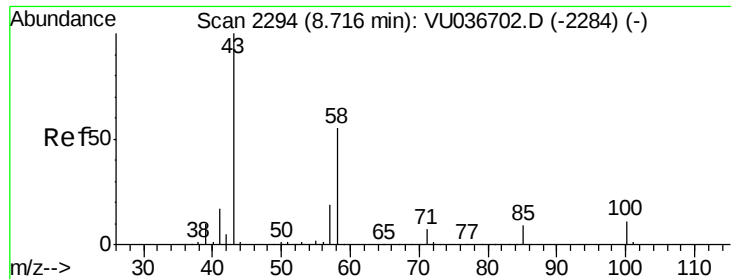
MMDadoda
 2/12/2020 3:10:05 PM



#46
 Tetrachloroethene
 Concen: 2.589 ug/L
 RT: 8.58 min Scan# 2252
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Tgt Ion:	164	Resp:	3281
Ion	Ratio	Lower	Upper
164	100		
129	102.0	71.0	131.9
131	104.5	66.6	123.6
166	132.6	86.4	160.4





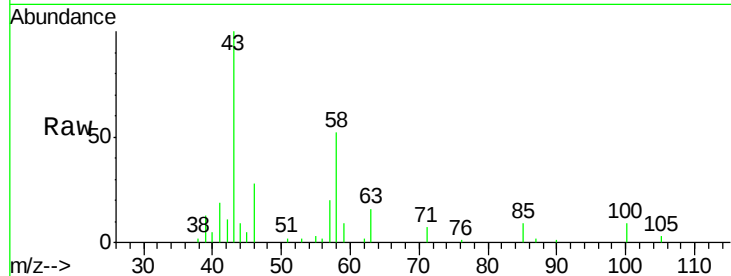
#48
2-Hexanone
Concen: 4.951 ug/L
RT: 8.72 min Scan# 2295
Delta R.T. 0.00 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	59.2	43.6	65.4	
57	20.9	15.5	23.3	
100	10.6	9.0	13.4	

Manual Integrations
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MMDadoda
2/12/2020 3:10:05 PM

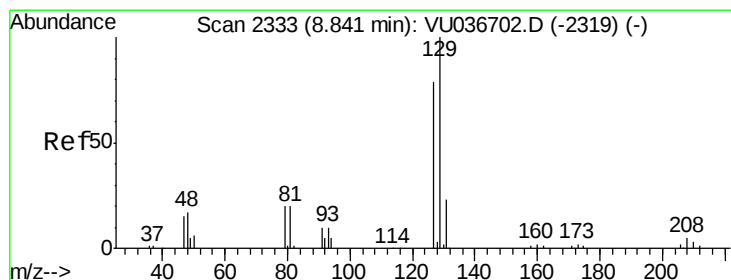
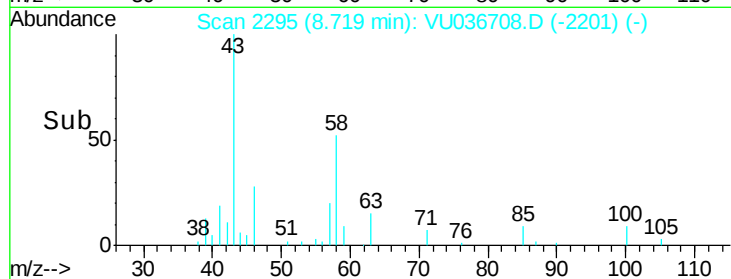
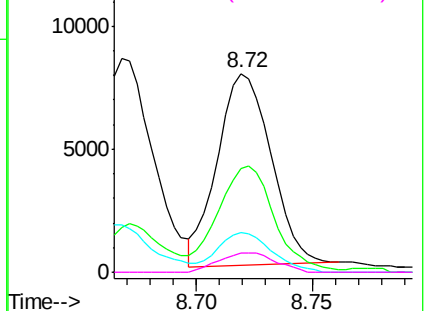


Abundance Ion 43.00 (42.70 to 43.70): VU036708.D (-2295) (-)

Ion 58.00 (57.70 to 58.70): VU036708.D (-2295) (-)

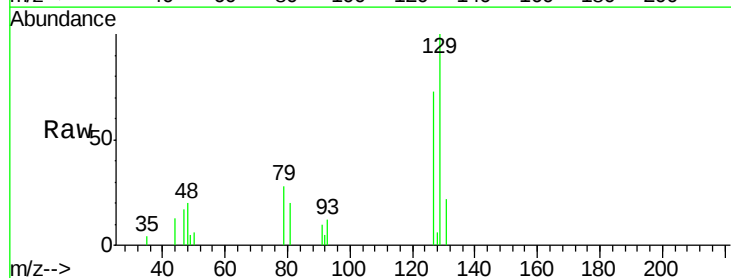
Ion 57.00 (56.70 to 57.70): VU036708.D (-2295) (-)

Ion 100.00 (99.70 to 100.70): VU036708.D (-2295) (-)



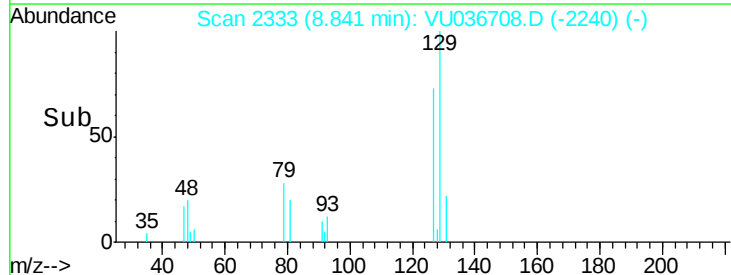
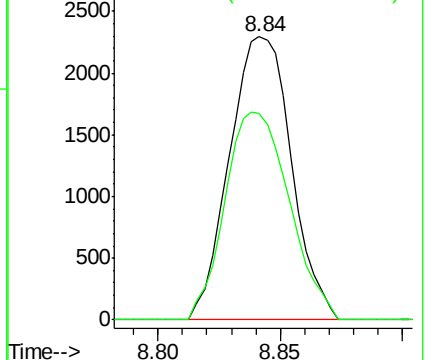
#49
Dibromochloromethane
Concen: 2.301 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. 0.00 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

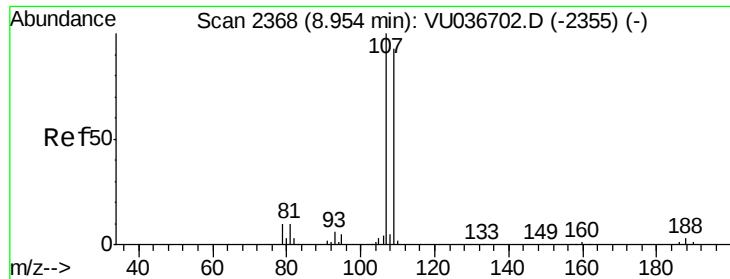
Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	72.8	53.6	99.6	



Abundance Ion 129.00 (128.70 to 129.70): VU036708.D (-2333) (-)

Ion 127.00 (126.70 to 127.70): VU036708.D (-2333) (-)





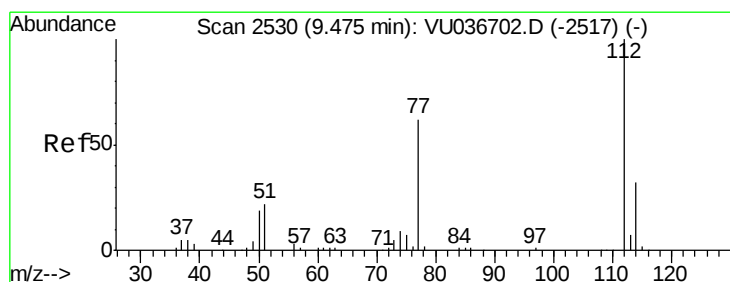
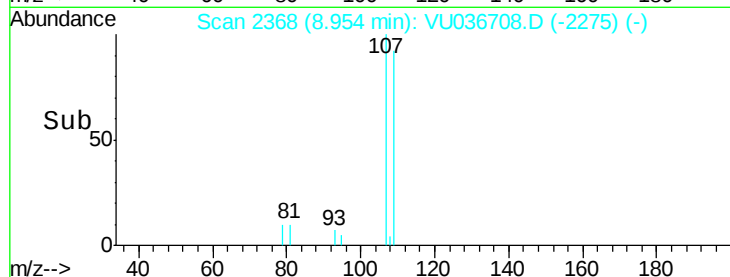
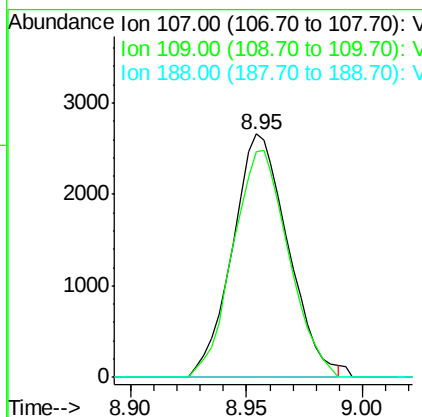
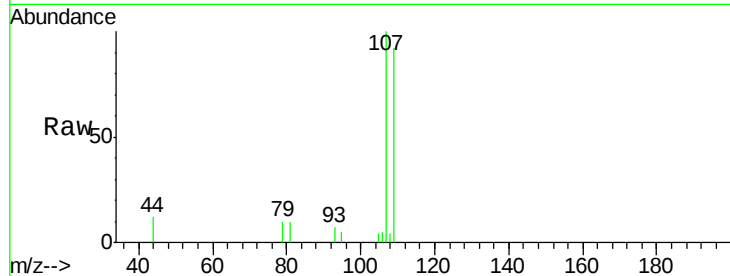
#50
1,2-Dibromoethane
Concen: 2.350 ug/L
RT: 8.95 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
107	100		
109	92.5	65.8	122.2
188	0.0	2.5	3.7#

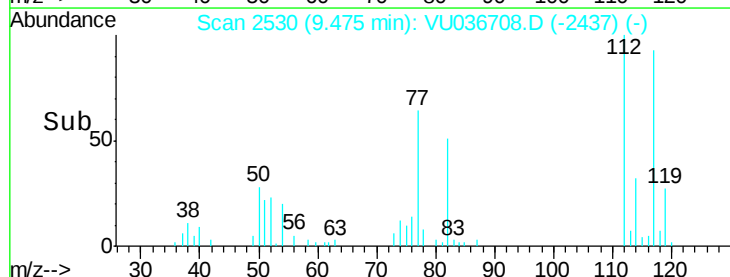
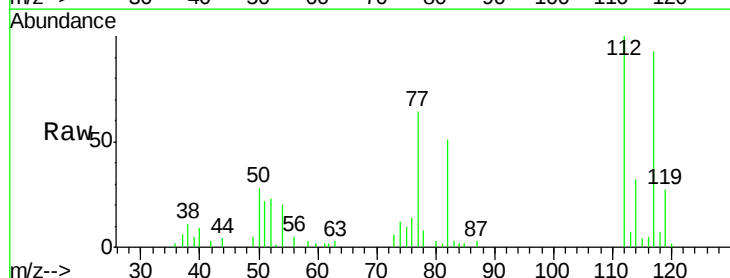
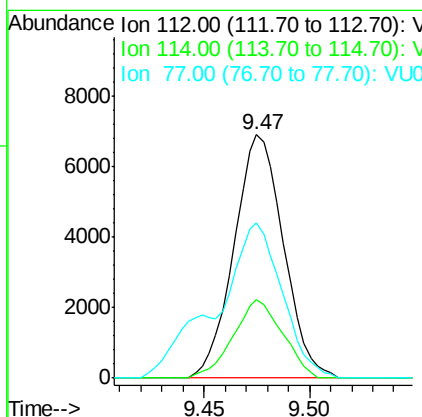
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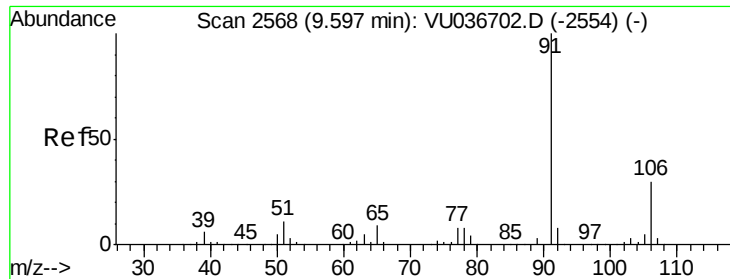
MMDadoda
2/12/2020 3:10:05 PM



#51
Chlorobenzene
Concen: 2.362 ug/L
RT: 9.47 min Scan# 2530
Delta R.T. 0.00 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.7	42.1
77	63.6	50.6	75.8





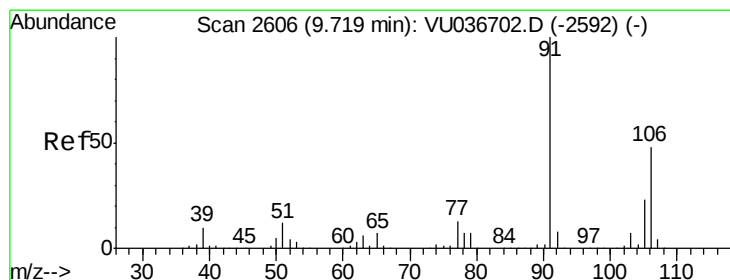
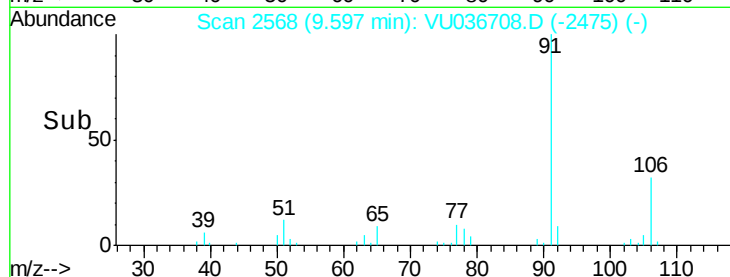
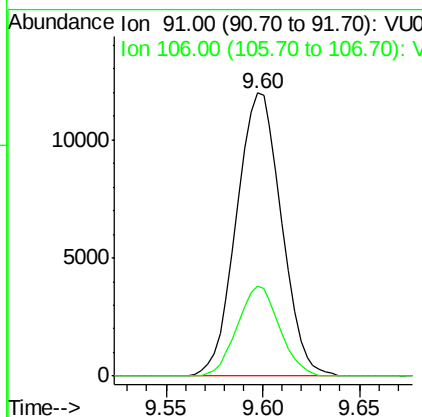
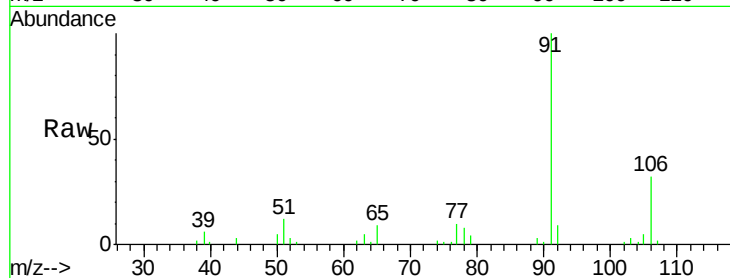
#52
Ethylbenzene
Concen: 2.236 ug/L
RT: 9.60 min Scan# 2568
Delta R.T. 0.00 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion	91	Resp	19389
Ion Ratio	100	Lower	Upper
106	31.7	21.3	39.6

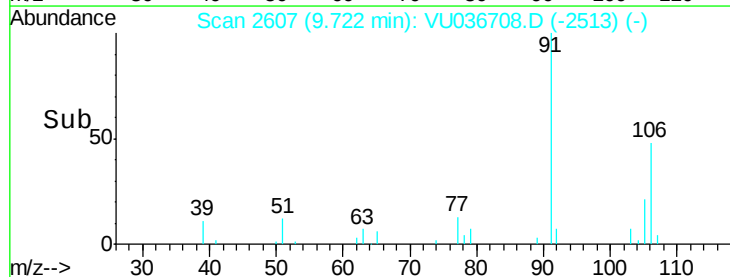
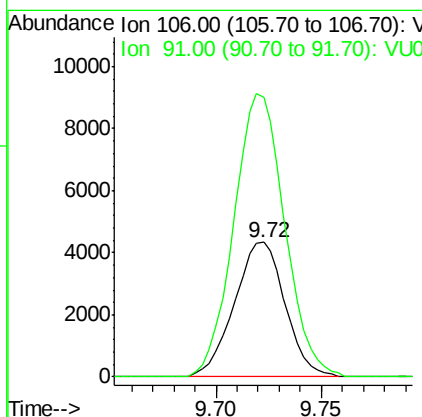
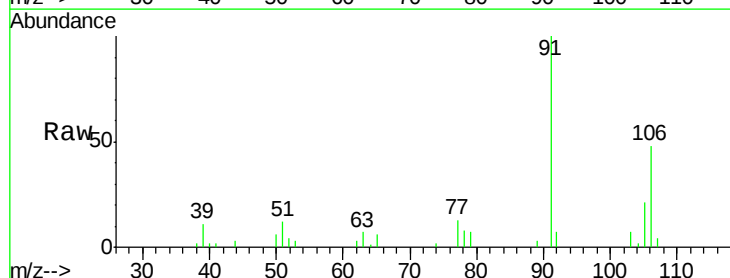
Manual Integrations
APPROVED

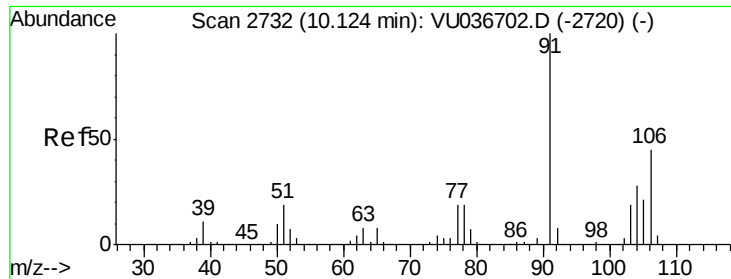
MMDadoda
2/12/2020 3:10:05 PM



#53
m,p-Xylene
Concen: 2.268 ug/L
RT: 9.72 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

Tgt Ion	106	Resp	7256
Ion Ratio	100	Lower	Upper
91	207.7	145.9	270.9





#54

o-xylene

Concen: 2.124 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion:106 Resp: 6730

Ion Ratio Lower Upper

106 100

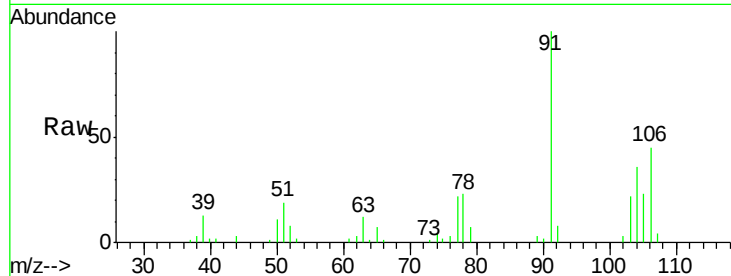
91 221.8 156.0 289.6

Manual Integrations

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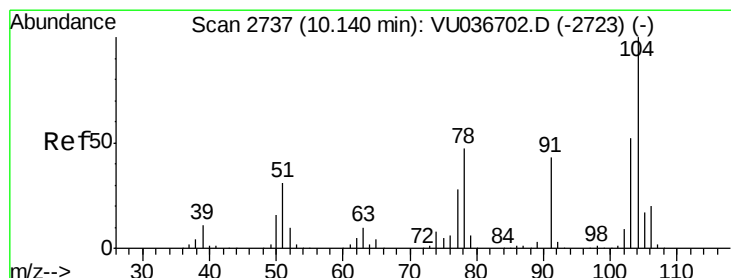
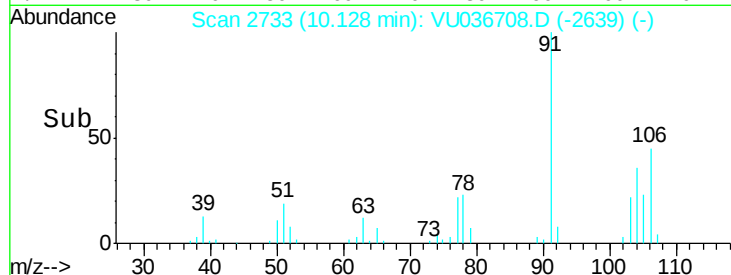
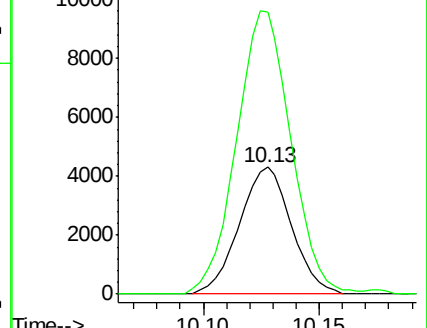
MMDadoda

2/12/2020 3:10:05 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.082 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. 0.00 min

Lab File: VU036708.D

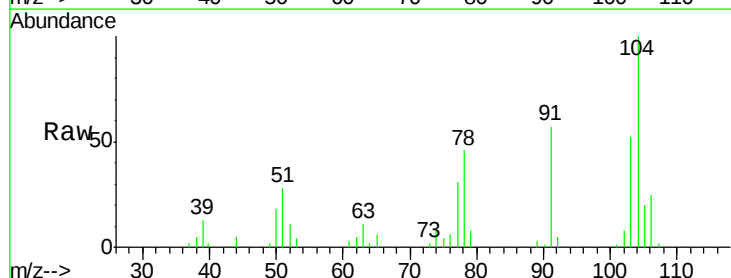
Acq: 10 Feb 2020 13:13

Tgt Ion:104 Resp: 10997

Ion Ratio Lower Upper

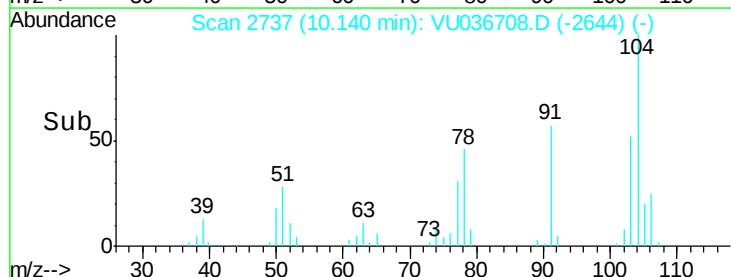
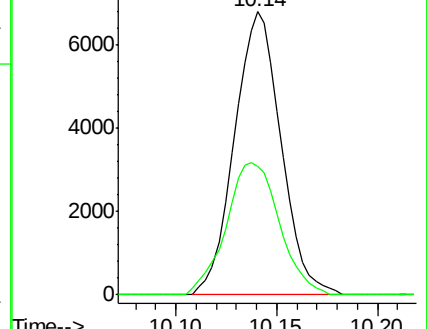
104 100

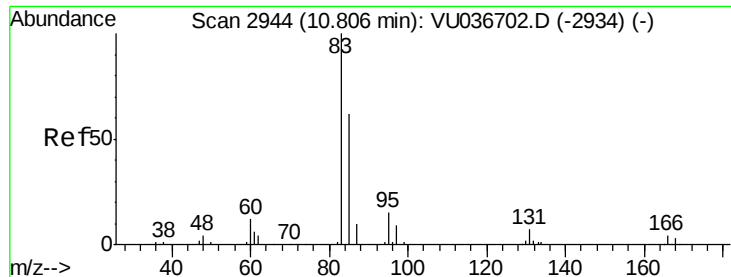
78 45.6 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#57

1,1,2,2-Tetrachloroethane

Concen: 2.309 ug/L

RT: 10.81 min Scan# 2944

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Instrument :

MSVOA_U

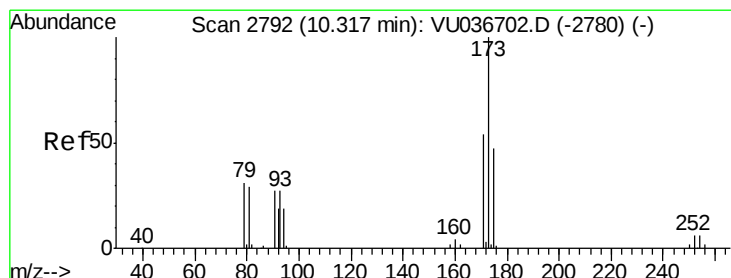
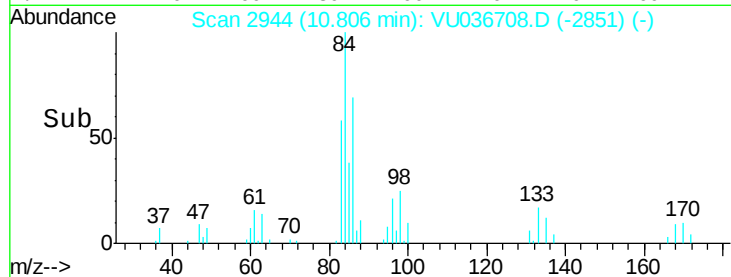
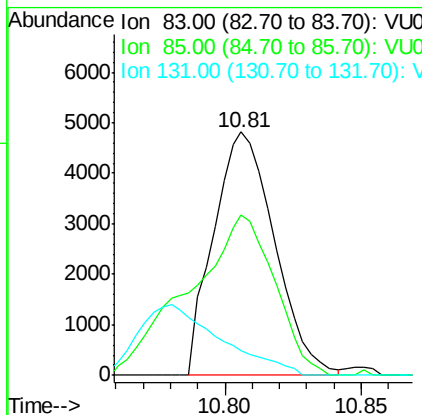
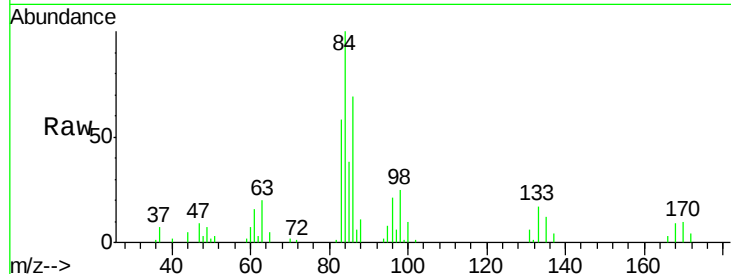
ClientSampled :

MDL03

Tot Ion:	83	Resp:	7474
Ion	Ratio	Lower	Upper
83	100		
85	66.0	44.7	82.9
131	10.3	6.8	10.2#

Manual Integrations
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MMDadoda
2/12/2020 3:10:05 PM



#59

Bromoform

Concen: 2.090 ug/L

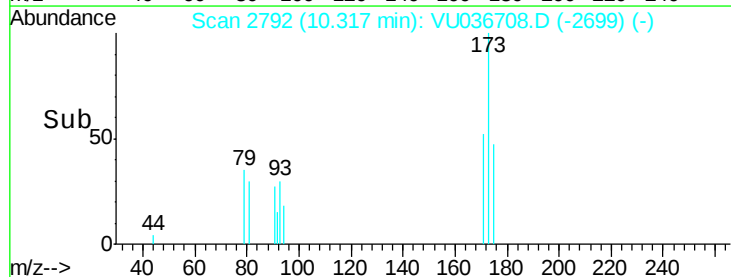
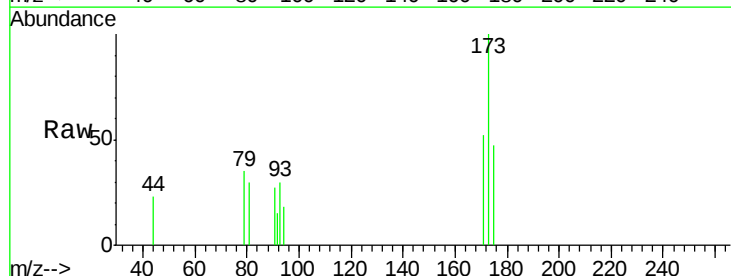
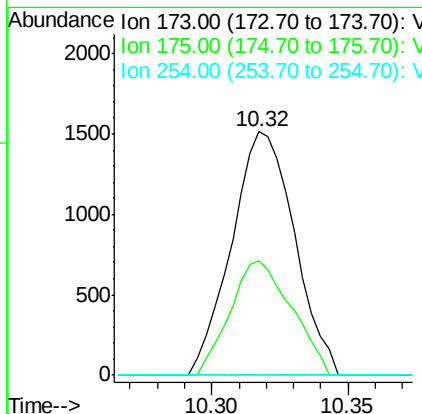
RT: 10.32 min Scan# 2792

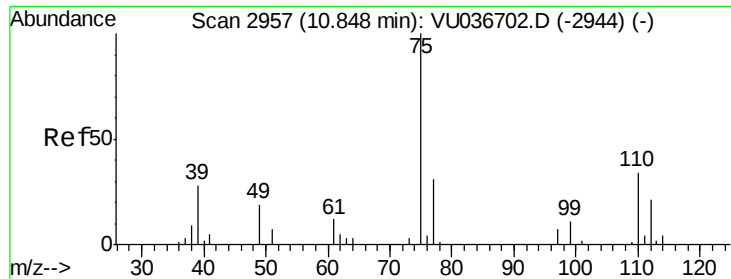
Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Tgt Ion:	173	Resp:	2422
Ion	Ratio	Lower	Upper
173	100		
175	45.9	38.2	57.4
254	0.0	4.8	7.2#





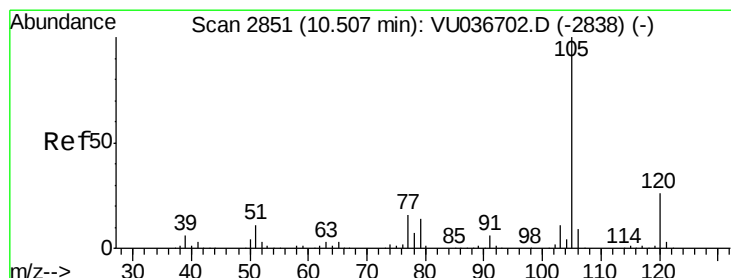
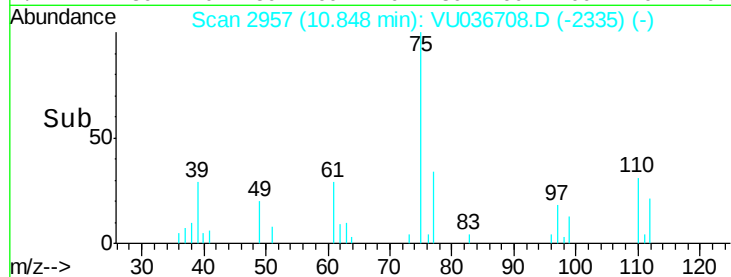
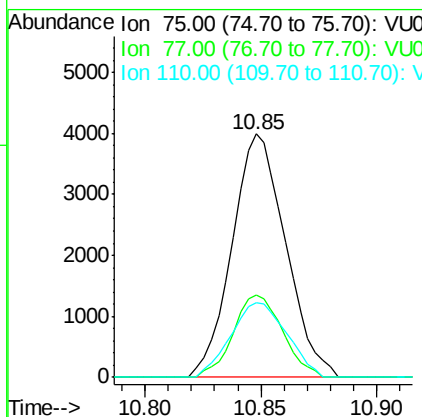
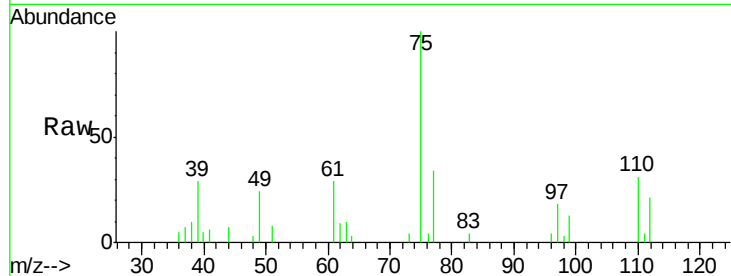
#60
 1,2,3-Trichloropropane
 Concen: 2.595 ug/L
 RT: 10.85 min Scan# 2957
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.1	26.1	39.1
110	32.1	26.9	40.3

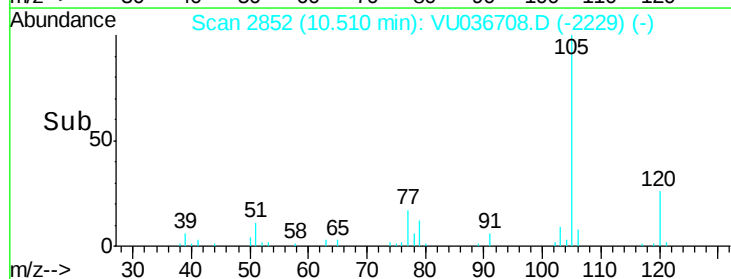
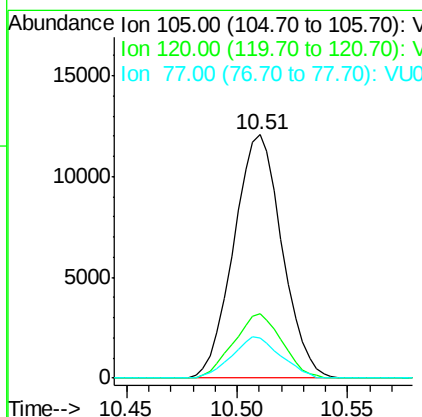
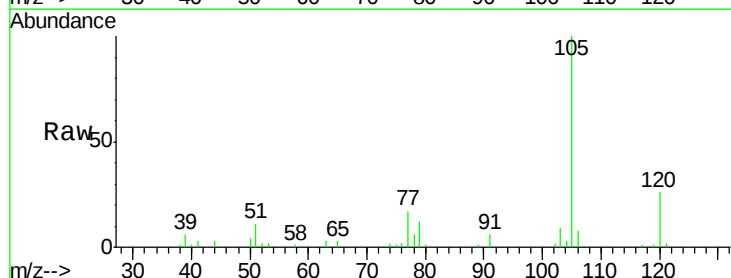
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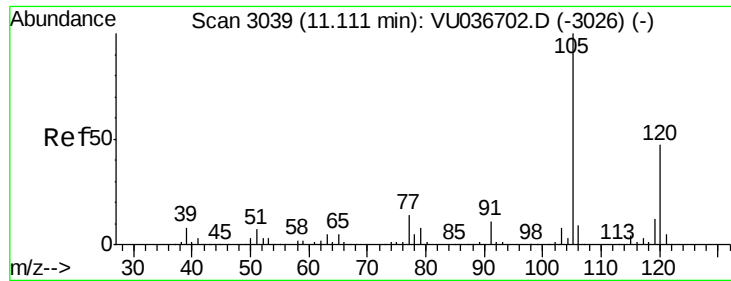
MMDadoda
 2/12/2020 3:10:05 PM



#61
 Isopropylbenzene
 Concen: 2.349 ug/L
 RT: 10.51 min Scan# 2852
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.4	20.2	30.4
77	17.0	13.0	19.6





#62

1,3,5-Trimethylbenzene

Concen: 2.246 ug/L

RT: 11.11 min Scan# 3039

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion:105 Resp: 15041

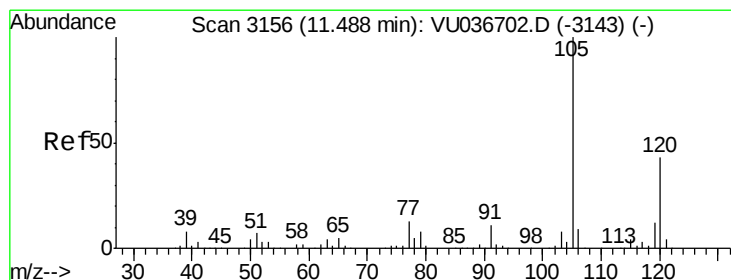
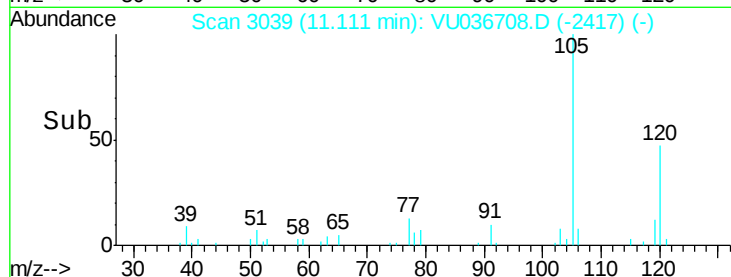
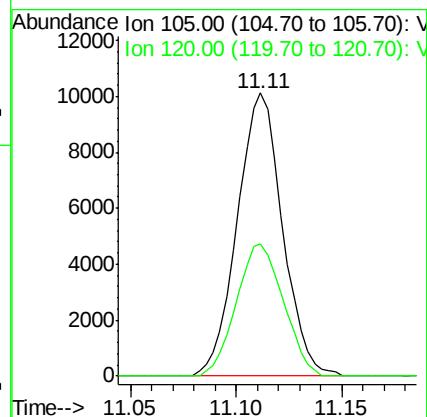
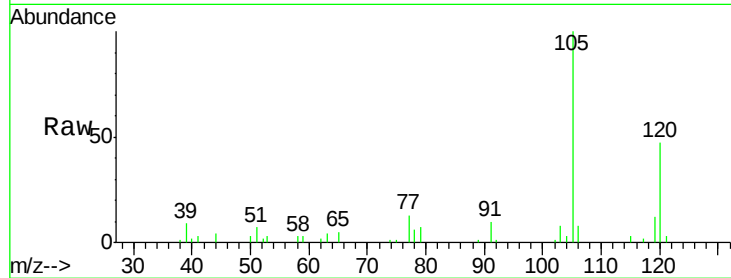
Ion Ratio Lower Upper

105 100

120 48.4 37.1 55.7

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#63

1,2,4-Trimethylbenzene

Concen: 2.150 ug/L

RT: 11.49 min Scan# 3156

Delta R.T. 0.00 min

Lab File: VU036708.D

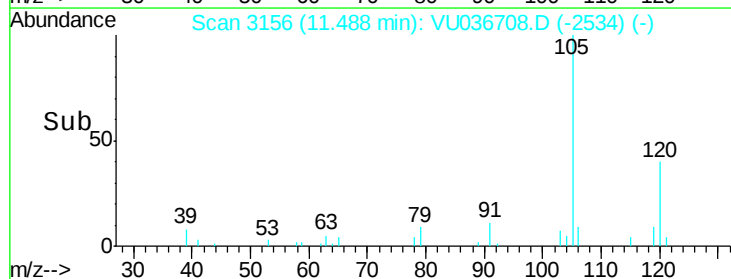
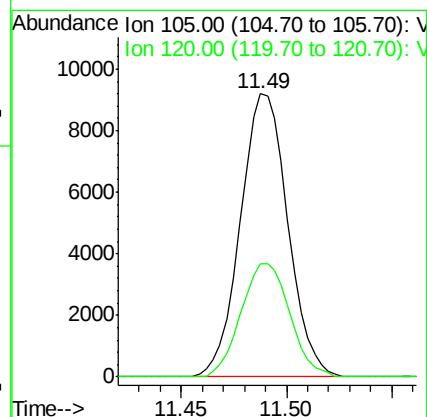
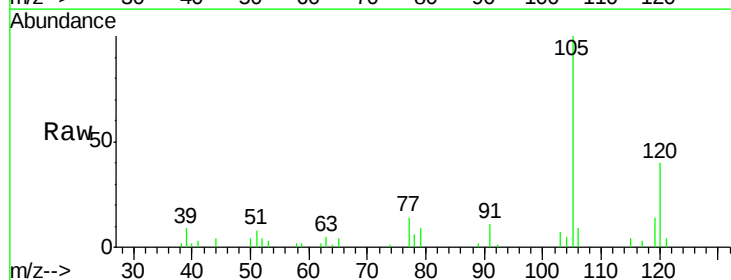
Acq: 10 Feb 2020 13:13

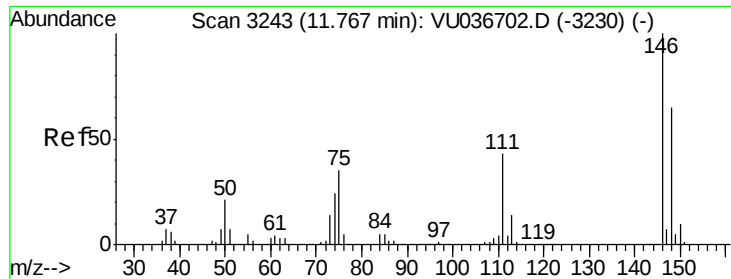
Tgt Ion:105 Resp: 14377

Ion Ratio Lower Upper

105 100

120 41.0 34.7 52.1





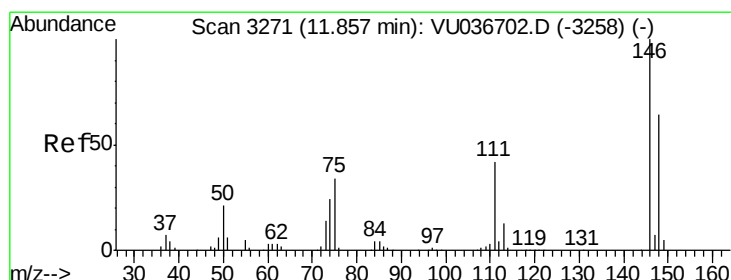
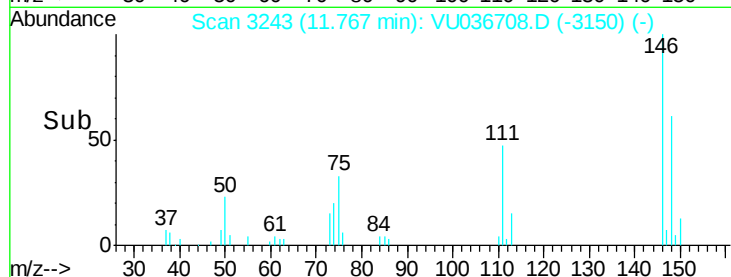
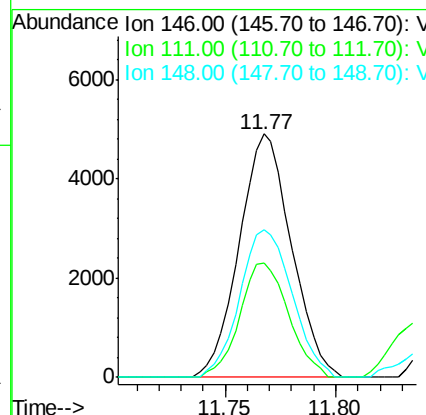
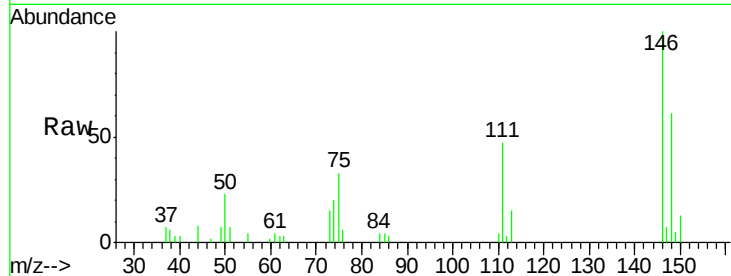
#64
 1,3-Dichlorobenzene
 Concen: 2.451 ug/L
 RT: 11.77 min Scan# 3243
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.1	30.4	56.4
148	60.5	44.5	82.7

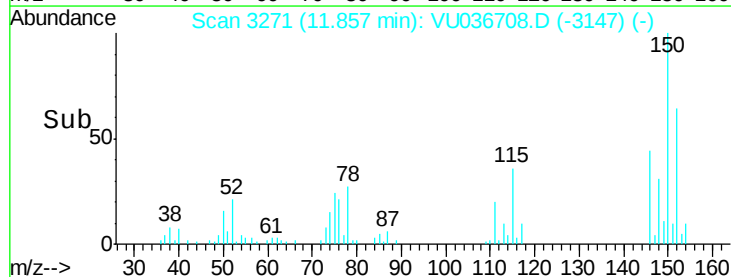
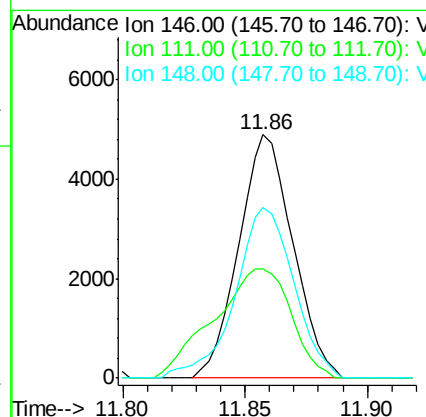
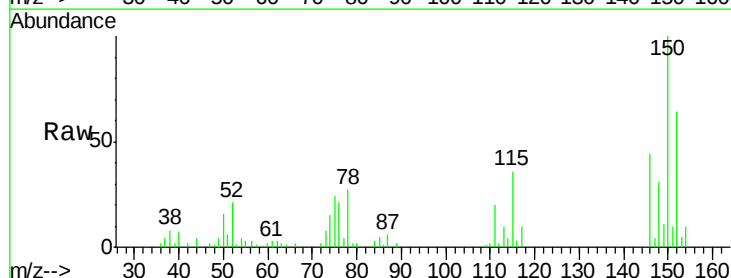
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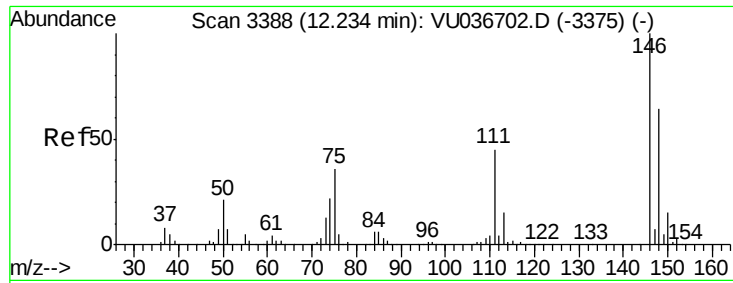
MMDadoda
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#65
 1,4-Dichlorobenzene
 Concen: 2.275 ug/L
 RT: 11.86 min Scan# 3271
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.0	29.3	54.3
148	70.1	44.8	83.2





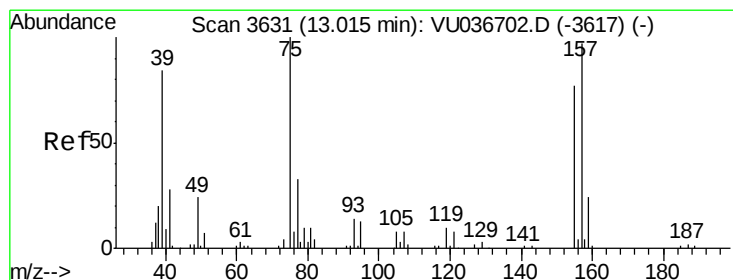
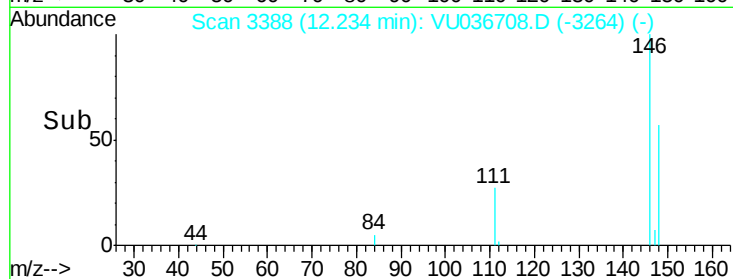
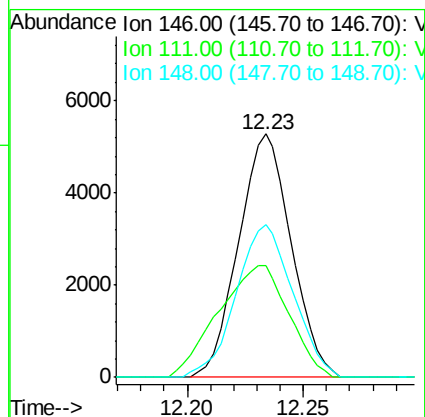
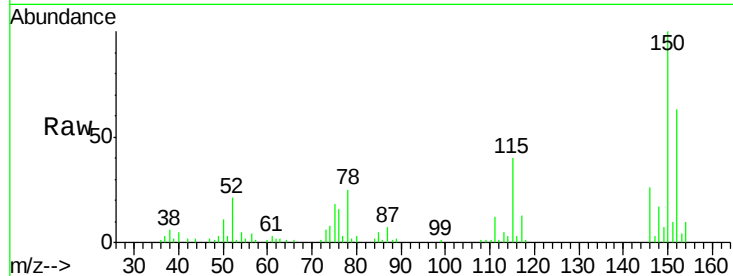
#67
 1,2-Dichlorobenzene
 Concen: 2.505 ug/L
 RT: 12.23 min Scan# 3388
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.8	35.4	53.0
148	62.5	50.4	75.6

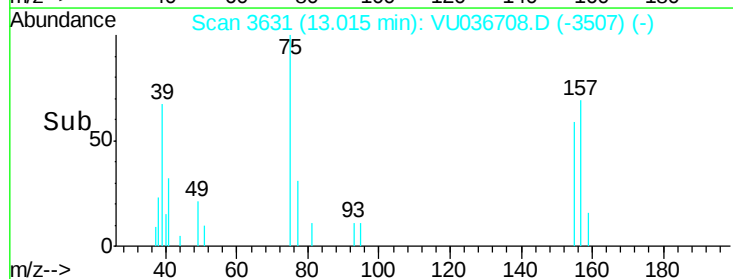
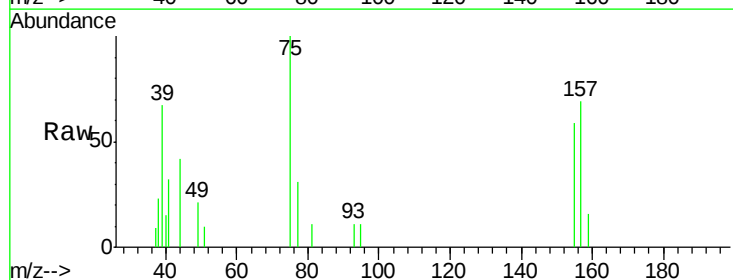
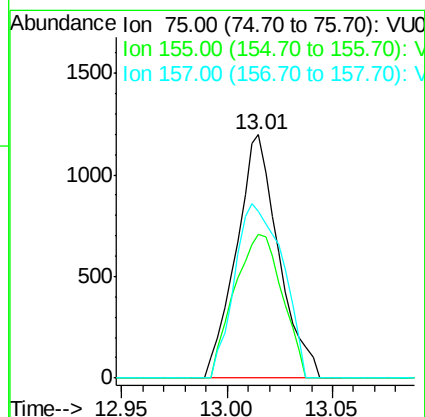
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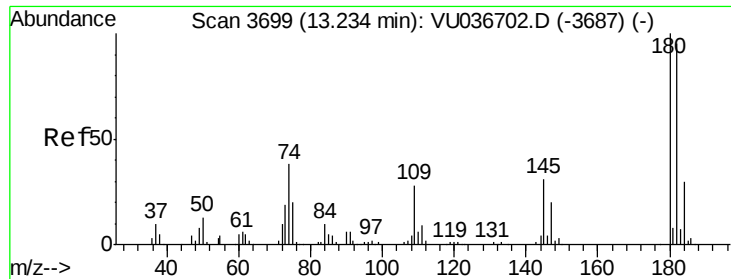
MMDadoda
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.366 ug/L
 RT: 13.01 min Scan# 3631
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
75	100		
155	59.1	58.7	88.1
157	68.6	77.8	116.6#





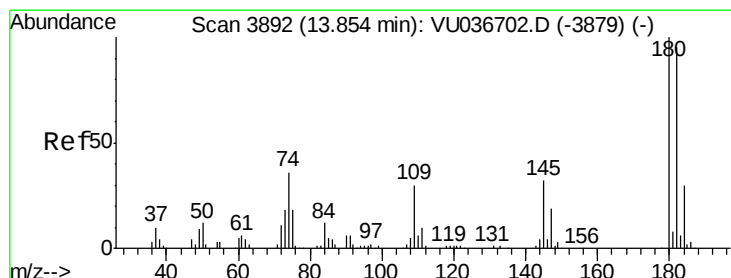
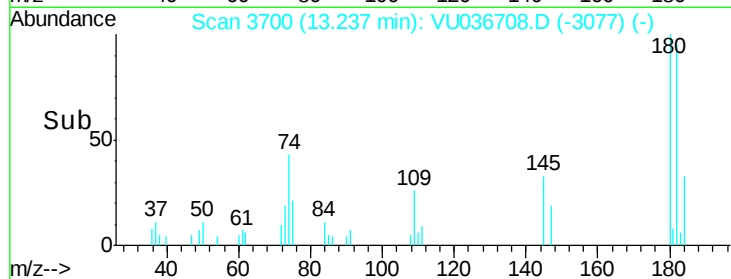
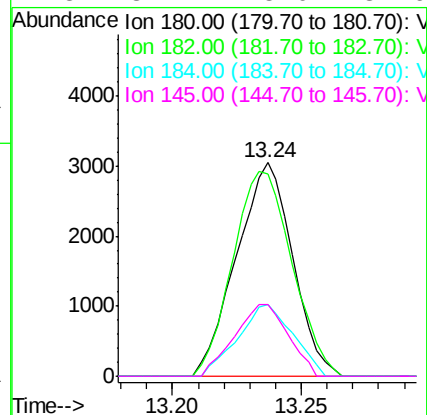
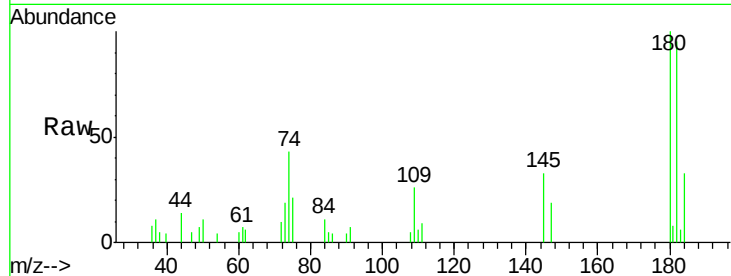
#69
 1,3,5-Trichlorobenzene
 Concen: 2.026 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
180	100		
182	101.3	76.2	114.4
184	32.9	23.8	35.6
145	32.1	25.0	37.6

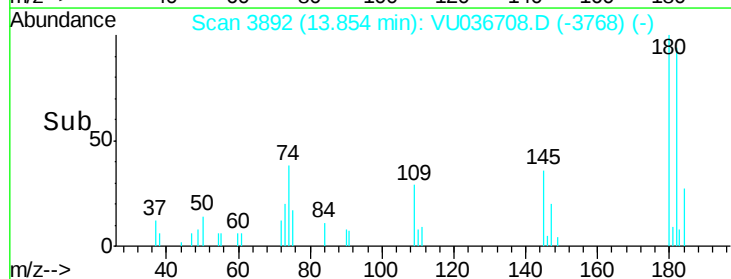
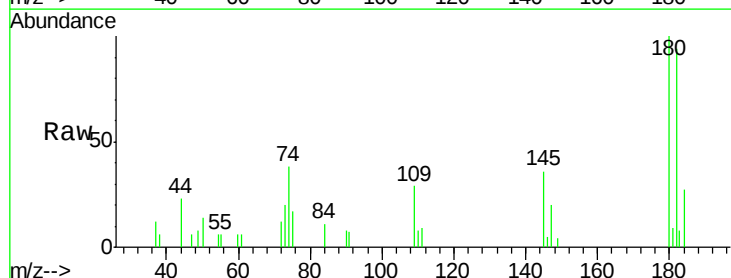
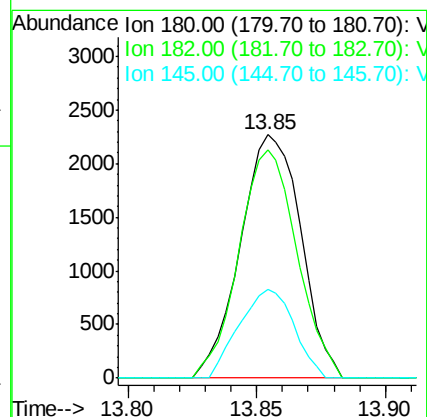
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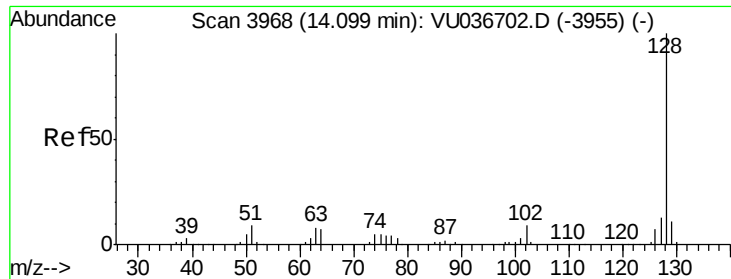
MMDadoda
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#70
 1,2,4-trichlorobenzene
 Concen: 1.952 ug/L
 RT: 13.85 min Scan# 3892
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.0	76.1	114.1
145	33.0	25.7	38.5





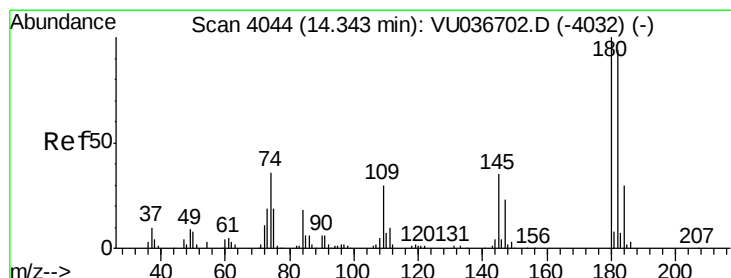
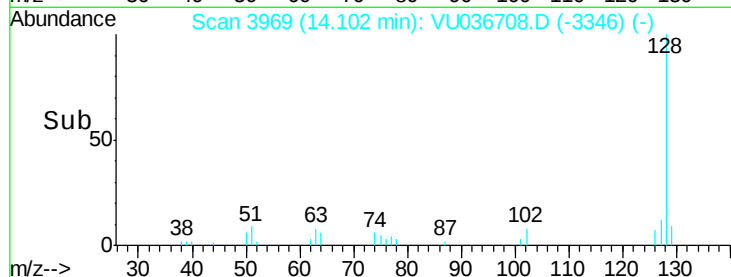
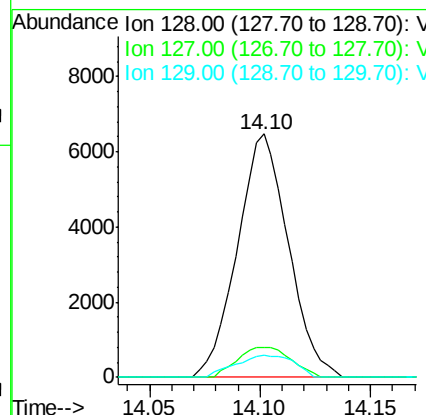
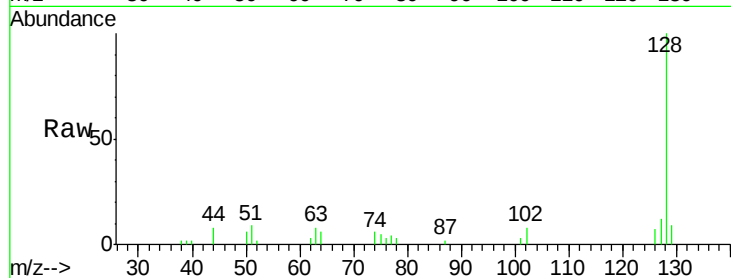
#71
Naphthalene
Concen: 1.550 ug/L
RT: 14.10 min Scan# 3969
Delta R.T. 0.00 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	16.0
129	10.4	8.5	12.7

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#72
1,2,3-Trichlorobenzene
Concen: 1.897 ug/L
RT: 14.34 min Scan# 4044
Delta R.T. 0.00 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.0	76.8	115.2
145	31.9	27.5	41.3

