

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU021020\
 Data File : VU036709.D
 Acq On : 10 Feb 2020 13:36
 Operator : JC/MD
 Sample : MDL04
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

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

Quant Time: Feb 11 03:59:40 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	260489	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	242757	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.83	152	104133	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	72664	41.83	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	83.66%
7) Chloroethane-d5	1.93	69	72526	45.02	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.04%
11) 1,1-Dichloroethene-d2	2.59	63	109072	33.26	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.52%
21) 2-Butanone-d5	4.68	46	155269	104.76	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.76%
24) Chloroform-d	5.11	84	144917	46.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.18%
26) 1,2-Dichloroethane-d4	5.75	65	103192	47.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.98%
32) Benzene-d6	5.77	84	309238	48.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.90%
36) 1,2-Dichloropropane-d6	6.73	67	105765	49.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.84%
41) Toluene-d8	7.93	98	276900	47.38	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.76%
43) trans-1,3-Dichloropropene-	8.21	79	48209	47.52	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.04%
47) 2-Hexanone-d5	8.67	63	122137	101.01	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.01%
56) 1,1,2,2-Tetrachloroethane-	10.78	84	152253	48.76	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.52%
66) 1,2-Dichlorobenzene-d4	12.21	152	94882	50.15	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.30%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	4300	2.389	ug/L	96
3) Chloromethane	1.54	50	5687	2.667	ug/L	96
5) Vinyl chloride	1.62	62	6196	2.698	ug/L #	75
6) Bromomethane	1.87	94	3629	2.520	ug/L	98
8) Chloroethane	1.95	64	5144m	3.529	ug/L	
9) Trichlorofluoromethane	2.16	101	7020	2.573	ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	4961	3.035	ug/L	85
12) 1,1-Dichloroethene	2.61	96	4661	2.929	ug/L #	1
13) Acetone	2.66	43	11586	7.359	ug/L	98
14) Carbon disulfide	2.82	76	11995	2.523	ug/L	99
15) Methyl Acetate	2.99	43	5956	2.617	ug/L	97
16) Methylene chloride	3.08	84	6154	3.133	ug/L	97
17) trans-1,2-Dichloroethene	3.39	96	4562	2.695	ug/L	96
18) Methyl tert-butyl Ether	3.41	73	15304	2.604	ug/L	99
19) 1,1-Dichloroethane	3.92	63	8737	2.590	ug/L	95
20) cis-1,2-Dichloroethene	4.72	96	5149	2.669	ug/L	95
22) 2-Butanone	4.76	43	10966	5.868	ug/L	95

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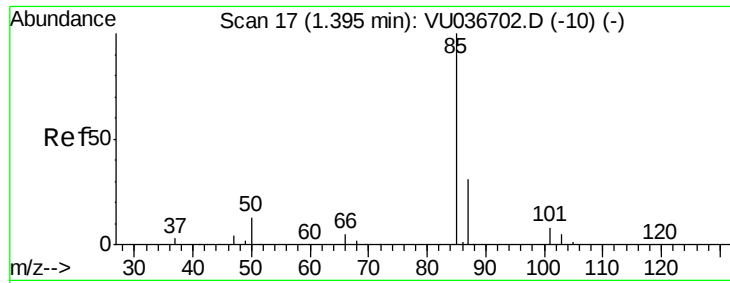
Manual Integrations
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM020620W.M
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	2244	2.482	ug/L	96
25) Chloroform	5.14	83	10586	3.227	ug/L	97
27) 1,2-Dichloroethane	5.84	62	7567	2.743	ug/L	97
29) Cyclohexane	5.43	56	8052	2.582	ug/L	99
30) 1,1,1-Trichloroethane	5.36	97	6451	2.502	ug/L	96
31) Carbon tetrachloride	5.57	117	5694	2.727	ug/L	95
33) Benzene	5.82	78	19502	2.656	ug/L	100
34) Trichloroethene	6.58	95	4680	2.578	ug/L	98
35) Methylcyclohexane	6.80	83	8118	2.539	ug/L	98
37) 1,2-Dichloropropane	6.83	63	5613	2.835	ug/L #	88
38) Bromodichloromethane	7.14	83	5977	2.484	ug/L	92
39) cis-1,3-Dichloropropene	7.64	75	7445	2.353	ug/L	90
40) 4-Methyl-2-pentanone	7.83	43	16030	5.124	ug/L	98
42) Toluene	8.00	91	21816	2.750	ug/L	98
44) trans-1,3-Dichloropropene	8.24	75	7031	2.544	ug/L	99
45) 1,1,2-Trichloroethane	8.43	97	4530	2.508	ug/L	95
46) Tetrachloroethene	8.58	164	3629	2.848	ug/L	94
48) 2-Hexanone	8.72	43	15339	6.011	ug/L	95
49) Dibromochloromethane	8.84	129	4082	2.311	ug/L	94
50) 1,2-Dibromoethane	8.95	107	4728	2.492	ug/L #	94
51) Chlorobenzene	9.47	112	12393	2.594	ug/L	99
52) Ethylbenzene	9.60	91	22402	2.570	ug/L	99
53) m,p-Xylene	9.72	106	8155	2.536	ug/L	96
54) o-xylene	10.13	106	7769	2.439	ug/L	100
55) Styrene	10.14	104	12382	2.332	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.81	83	8410	2.584	ug/L	97
59) Bromoform	10.32	173	2886	2.509	ug/L #	94
60) 1,2,3-Trichloropropane	10.85	75	6660	2.719	ug/L	95
61) Isopropylbenzene	10.51	105	20187	2.603	ug/L	97
62) 1,3,5-Trimethylbenzene	11.11	105	16887	2.540	ug/L	100
63) 1,2,4-Trimethylbenzene	11.49	105	16892	2.545	ug/L	96
64) 1,3-Dichlorobenzene	11.77	146	8594	2.636	ug/L	96
65) 1,4-Dichlorobenzene	11.86	146	8822	2.687	ug/L	95
67) 1,2-Dichlorobenzene	12.23	146	9069	2.747	ug/L	94
68) 1,2-Dibromo-3-chloropropan	13.01	75	1630	2.329	ug/L	93
69) 1,3,5-Trichlorobenzene	13.23	180	5189	2.295	ug/L	99
70) 1,2,4-trichlorobenzene	13.85	180	3591	1.905	ug/L	94
71) Naphthalene	14.10	128	10567	1.590	ug/L	99
72) 1,2,3-Trichlorobenzene	14.34	180	3774	2.009	ug/L	90

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



#2

Dichlorodifluoromethane

Concen: 2.389 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU036709.D

Acq: 10 Feb 2020 13:36

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 85 Resp: 4300

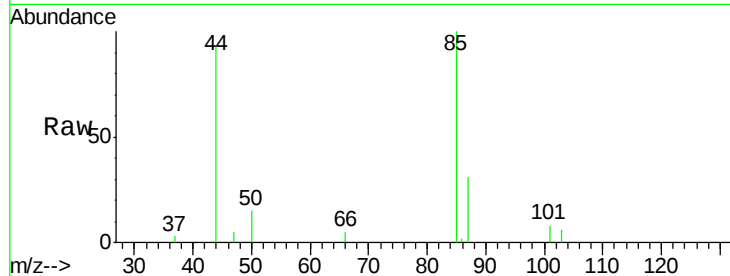
Ion Ratio Lower Upper

85 100

87 30.2 25.9 38.9

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Abundance Ion 85.00 (84.70 to 85.70): VU036709.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU036709.D (-1) (-)

1.39

4000

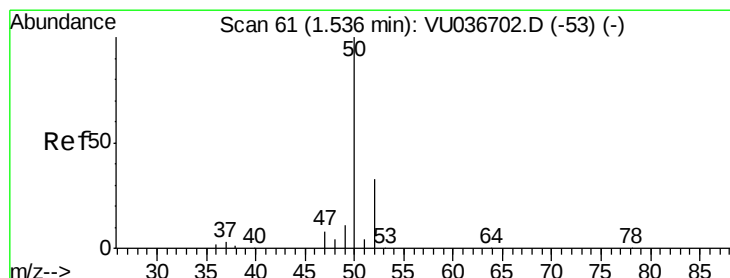
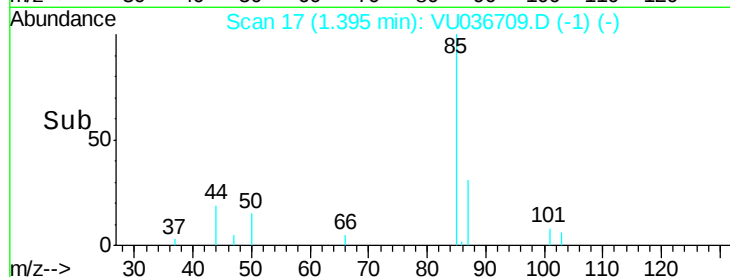
3000

2000

1000

0

Time-->



#3

Chloromethane

Concen: 2.667 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU036709.D

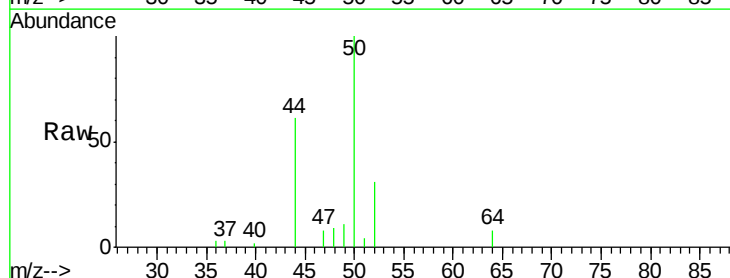
Acq: 10 Feb 2020 13:36

Tgt Ion: 50 Resp: 5687

Ion Ratio Lower Upper

50 100

52 30.6 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU036709.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU036709.D (-1) (-)

1.54

6000

5000

4000

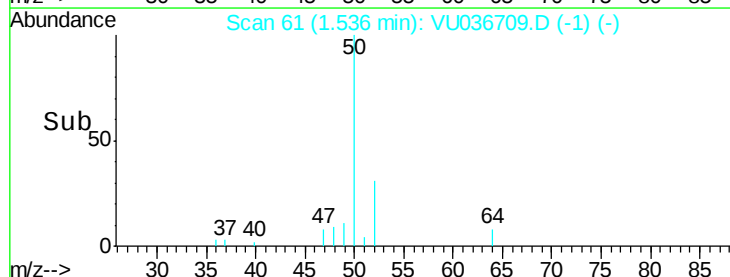
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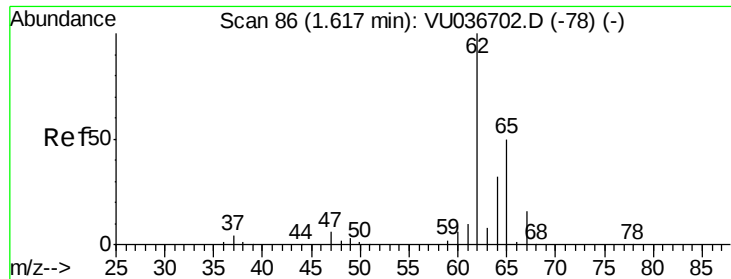
2000

1000

0

Time-->





#5

Vinyl chloride

Concen: 2.698 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU036709.D

Acq: 10 Feb 2020 13:36

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 62 Resp: 6196

Ion Ratio Lower Upper

62 100

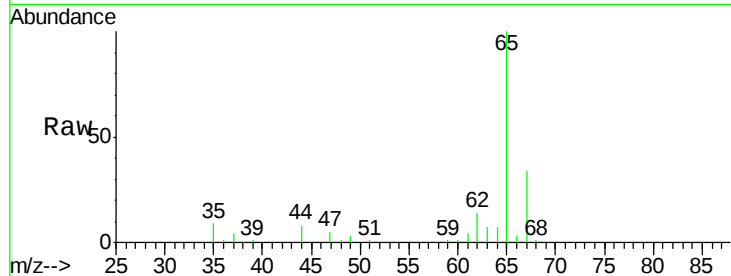
64 47.9 23.4 43.6#

Manual Integrations

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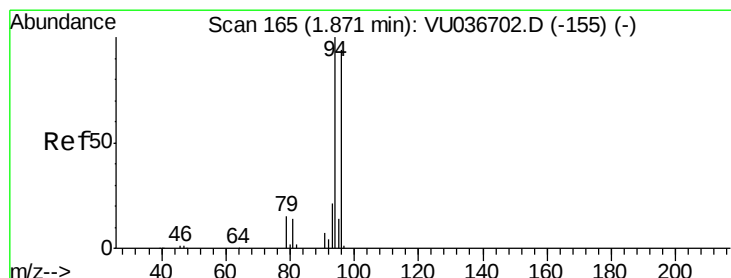
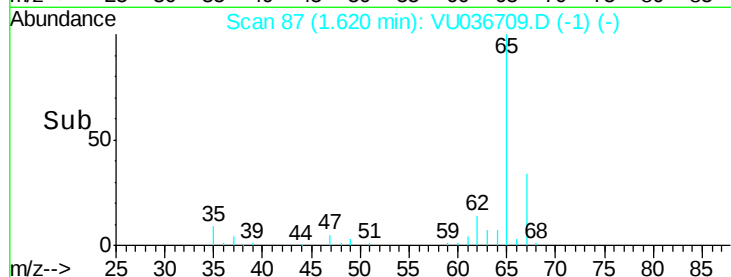
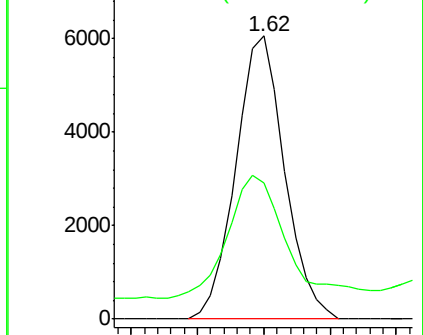
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Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 2.520 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU036709.D

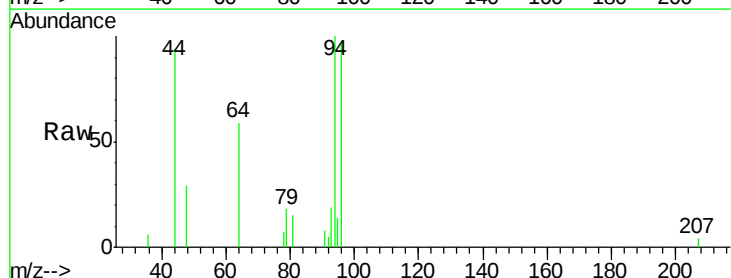
Acq: 10 Feb 2020 13:36

Tgt Ion: 94 Resp: 3629

Ion Ratio Lower Upper

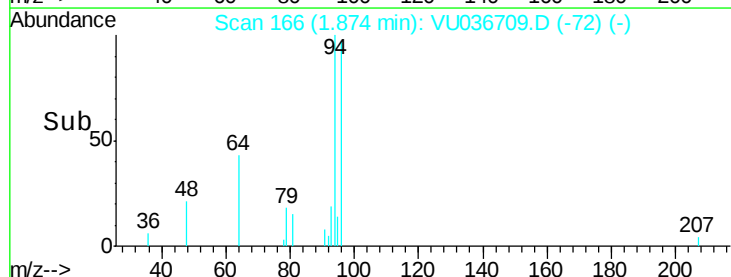
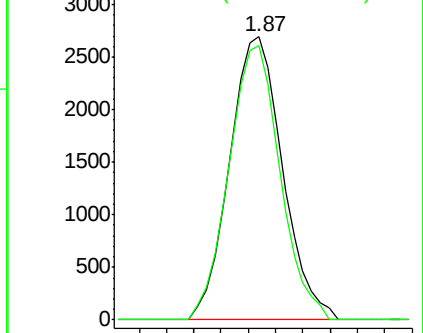
94 100

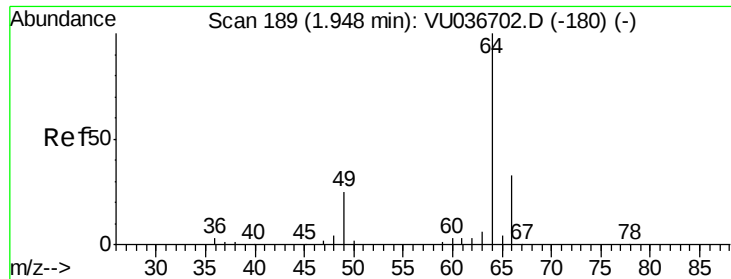
96 96.9 66.3 123.1



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 3.529 ug/L m

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU036709.D

Acq: 10 Feb 2020 13:36

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 64 Resp: 5144

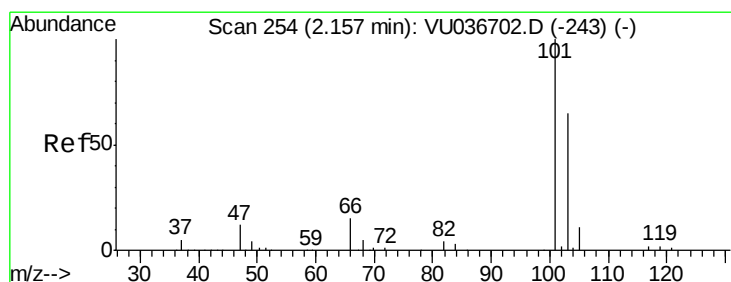
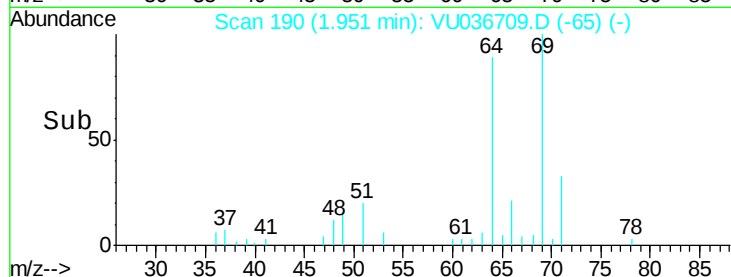
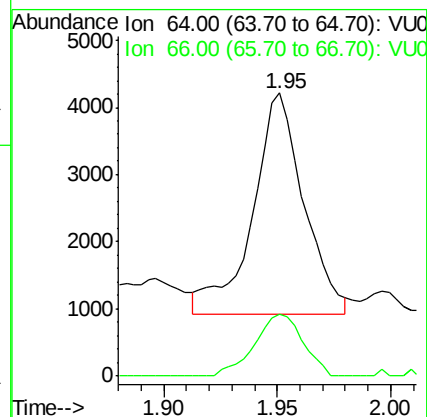
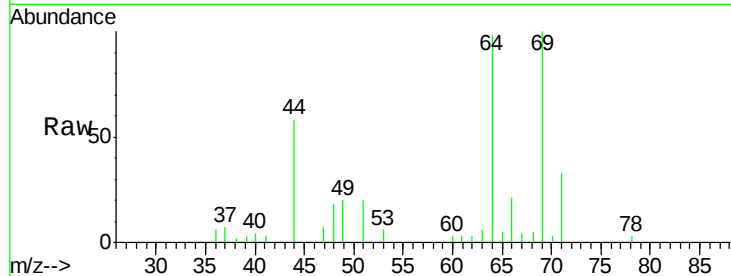
Ion Ratio Lower Upper

64 100

66 22.0 22.1 41.1#

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#9

Trichlorofluoromethane

Concen: 2.573 ug/L

RT: 2.16 min Scan# 255

Delta R.T. 0.00 min

Lab File: VU036709.D

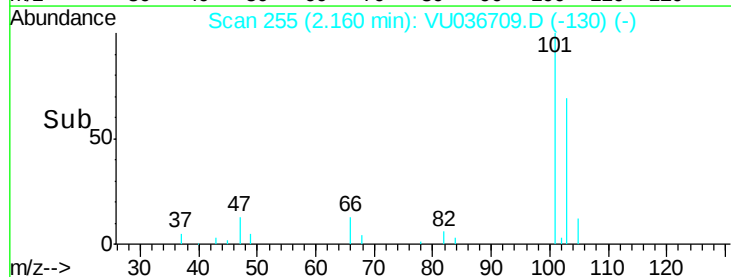
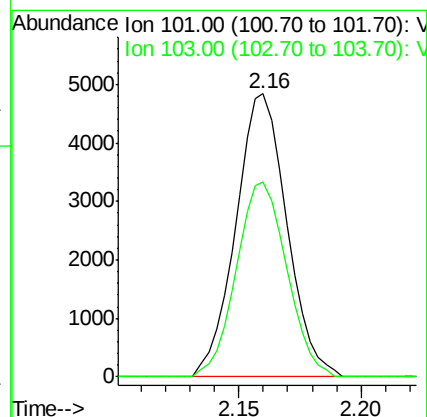
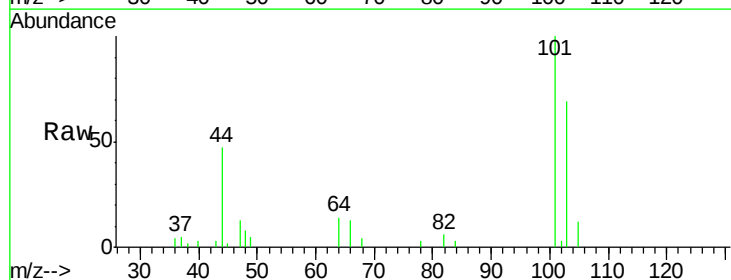
Acq: 10 Feb 2020 13:36

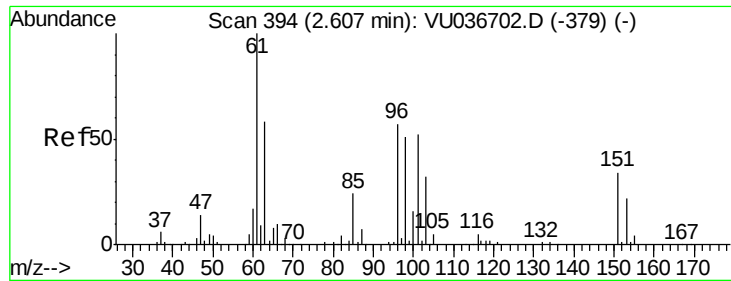
Tgt Ion: 101 Resp: 7020

Ion Ratio Lower Upper

101 100

103 67.9 51.6 77.4





#10

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

Concen: 3.035 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036709.D

Acq: 10 Feb 2020 13:36

Instrument :

MSVOA_U

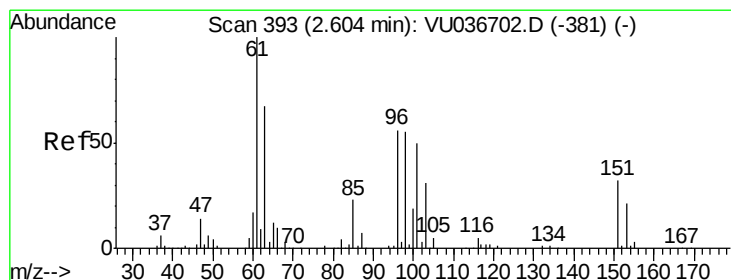
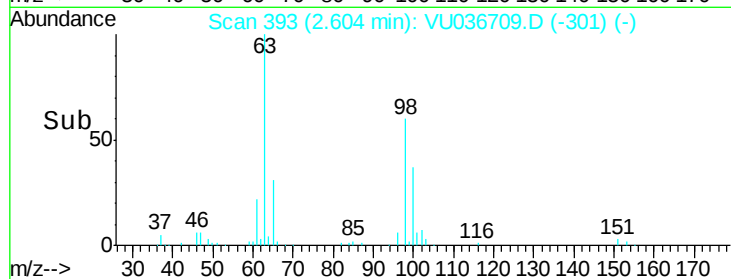
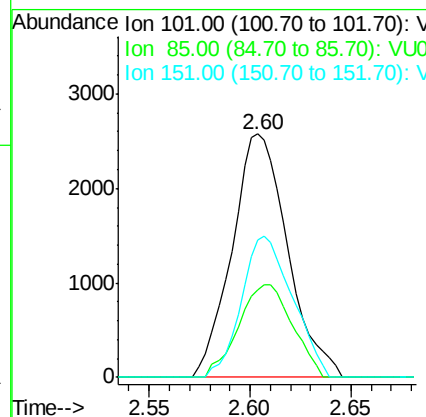
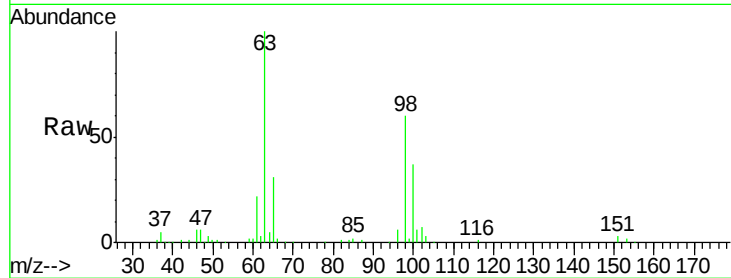
ClientSampled :

MDL04

Tot Ion:	101	Resp:	4961
Ion Ratio	Lower	Upper	
101	100		
85	36.7	36.5	54.7
151	53.2	52.6	78.8

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#12

1,1-Dichloroethene

Concen: 2.929 ug/L

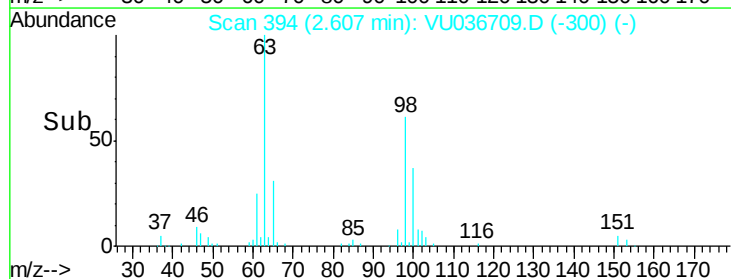
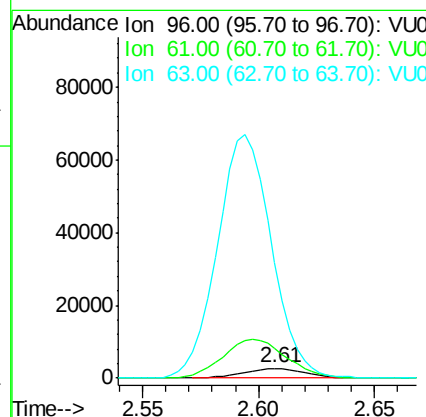
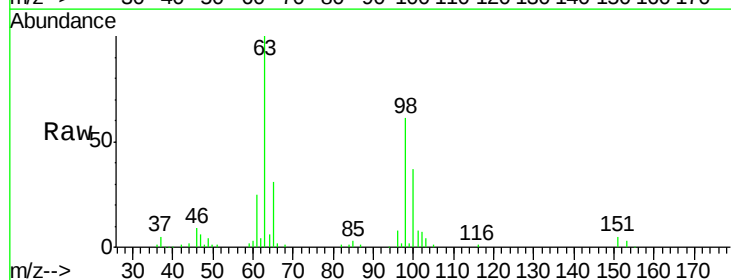
RT: 2.61 min Scan# 394

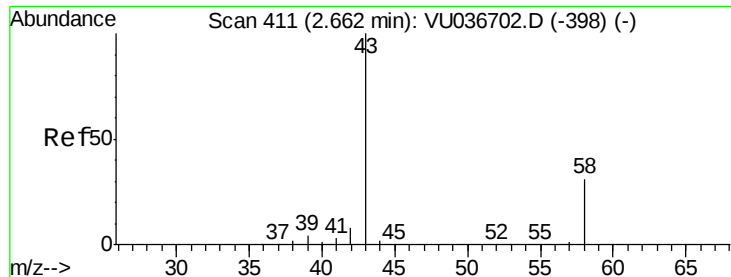
Delta R.T. 0.00 min

Lab File: VU036709.D

Acq: 10 Feb 2020 13:36

Tgt Ion:	96	Resp:	4661
Ion Ratio	Lower	Upper	
96	100		
61	307.5	124.4	231.0#
63	1210.7	83.4	155.0#





#13

Acetone

Concen: 7.359 ug/L

RT: 2.66 min Scan# 410

Delta R.T. -0.00 min

Lab File: VU036709.D

Acq: 10 Feb 2020 13:36

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 43 Resp: 11586

Ion Ratio Lower Upper

43 100

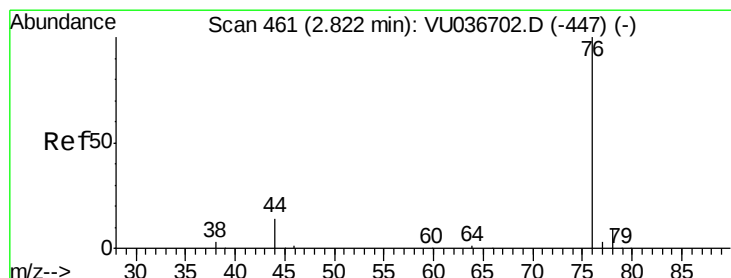
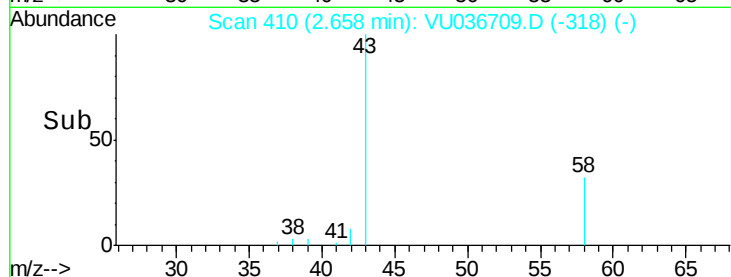
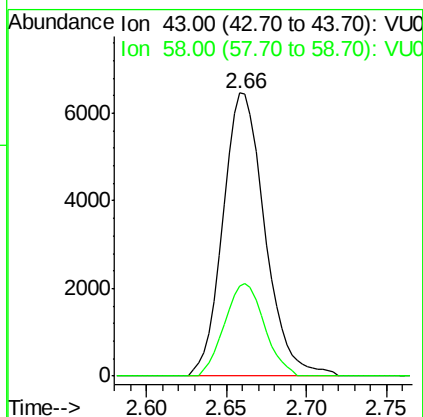
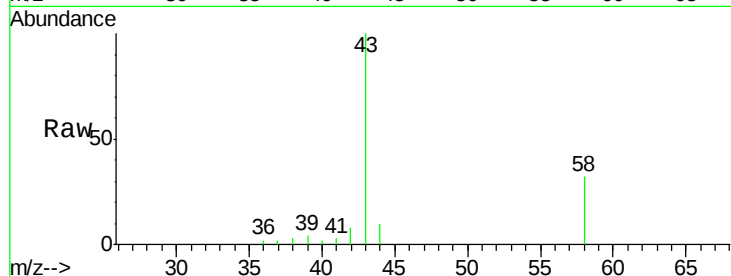
58 30.9 0.0 64.0

Manual Integrations

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#14

Carbon disulfide

Concen: 2.523 ug/L

RT: 2.82 min Scan# 461

Delta R.T. -0.00 min

Lab File: VU036709.D

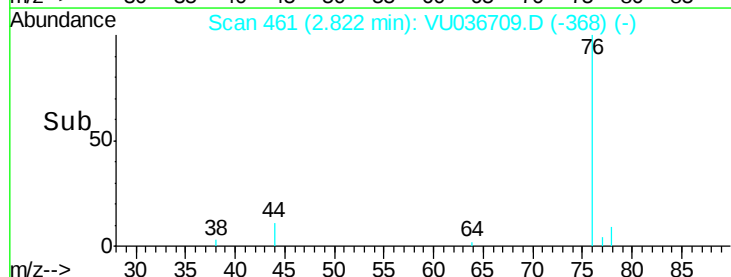
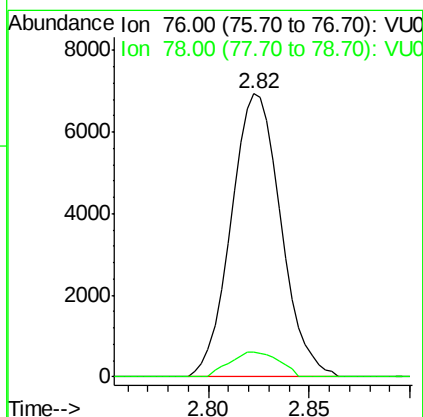
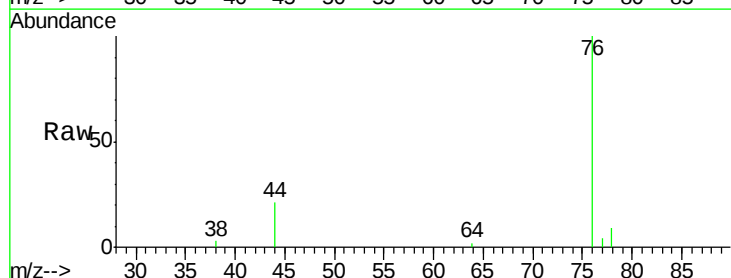
Acq: 10 Feb 2020 13:36

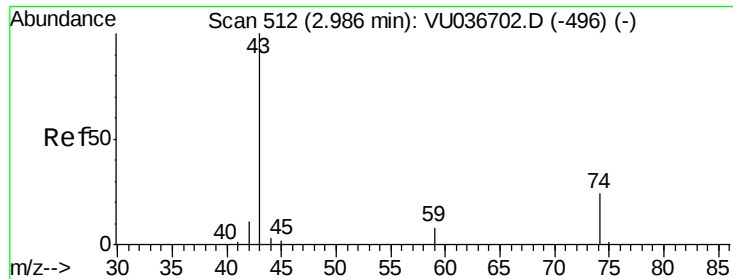
Tgt Ion: 76 Resp: 11995

Ion Ratio Lower Upper

76 100

78 8.6 7.3 10.9





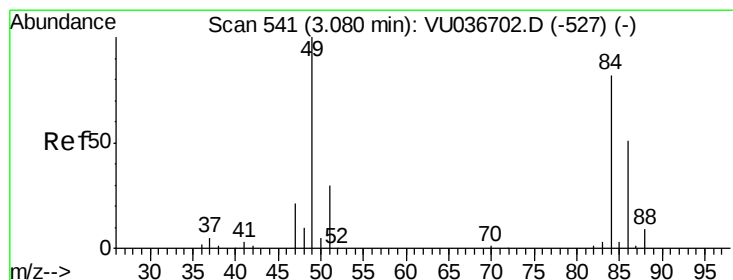
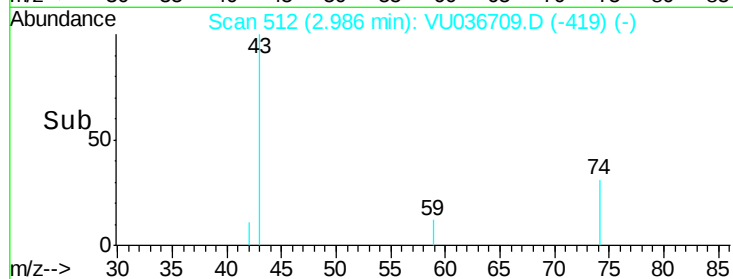
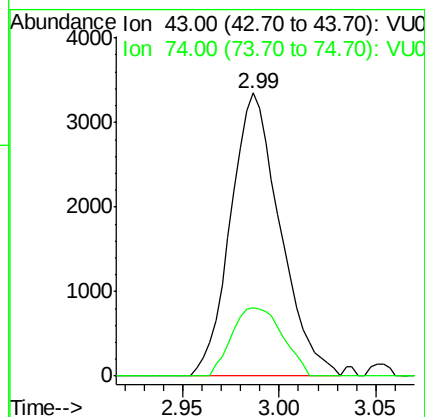
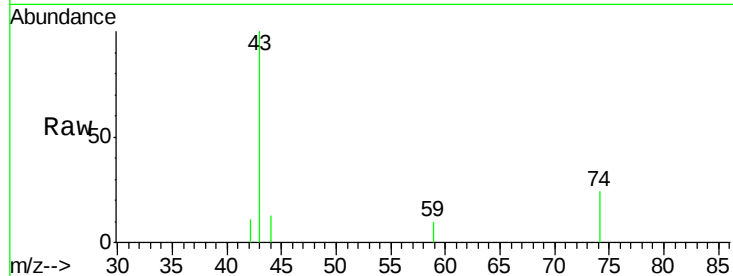
#15
Methyl Acetate
Concen: 2.617 ug/L
RT: 2.99 min Scan# 512
Delta R.T. -0.00 min
Lab File: VU036709.D
Acq: 10 Feb 2020 13:36

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion: 43 Resp: 5956
Ion Ratio Lower Upper
43 100
74 24.8 18.7 28.1

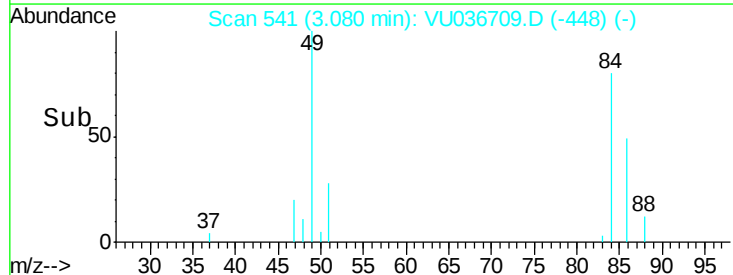
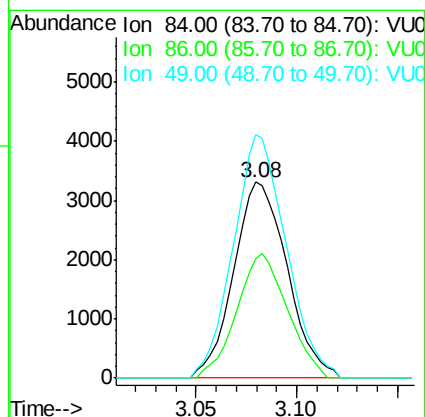
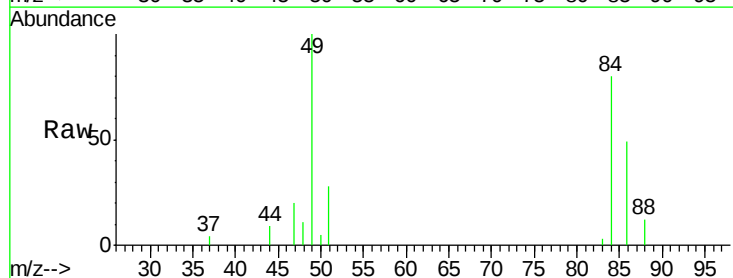
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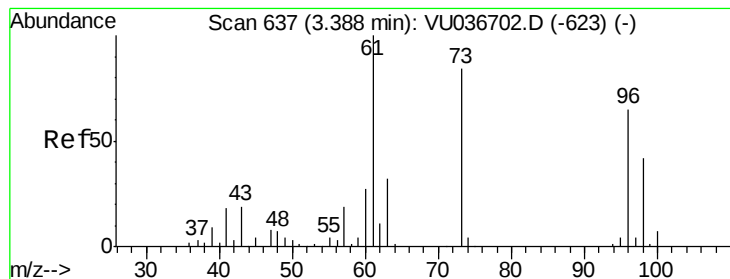
MMDadoda
2/12/2020 3:10:10 PM



#16
Methylene chloride
Concen: 3.133 ug/L
RT: 3.08 min Scan# 541
Delta R.T. -0.00 min
Lab File: VU036709.D
Acq: 10 Feb 2020 13:36

Tgt Ion: 84 Resp: 6154
Ion Ratio Lower Upper
84 100
86 61.1 44.4 82.5
49 124.4 89.2 165.8





#17

trans-1,2-Dichloroethene

Concen: 2.695 ug/L

RT: 3.39 min Scan# 637

Delta R.T. -0.00 min

Lab File: VU036709.D

Acq: 10 Feb 2020 13:36

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 96 Resp: 4562

Ion Ratio Lower Upper

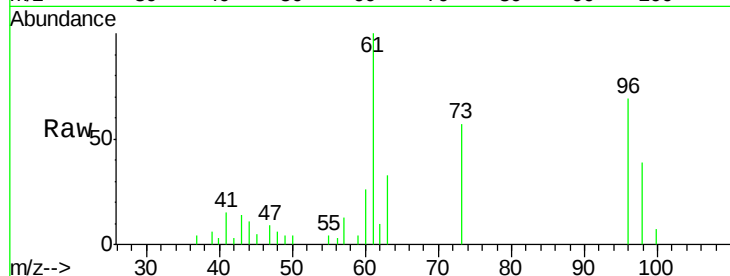
96 100

61 145.8 103.4 192.0

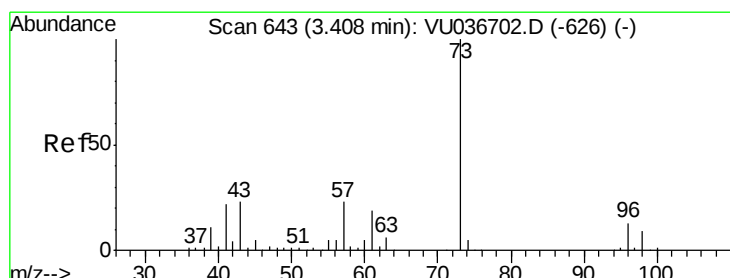
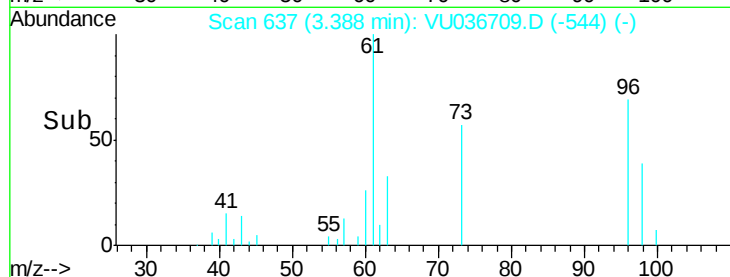
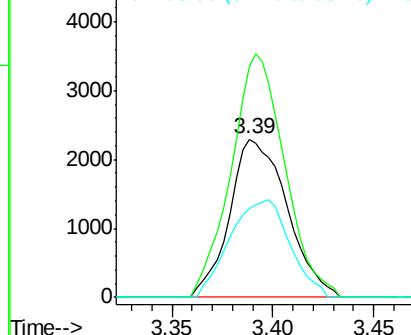
98 56.1 45.4 84.2

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Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 2.604 ug/L

RT: 3.41 min Scan# 644

Delta R.T. 0.00 min

Lab File: VU036709.D

Acq: 10 Feb 2020 13:36

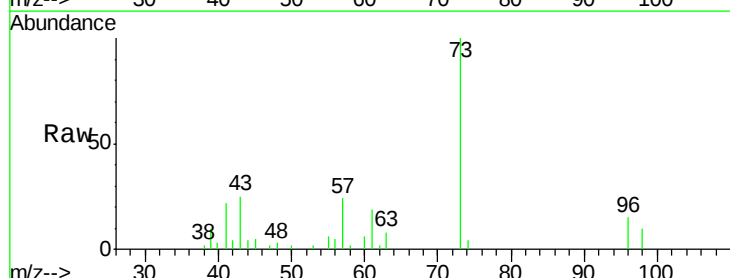
Tgt Ion: 73 Resp: 15304

Ion Ratio Lower Upper

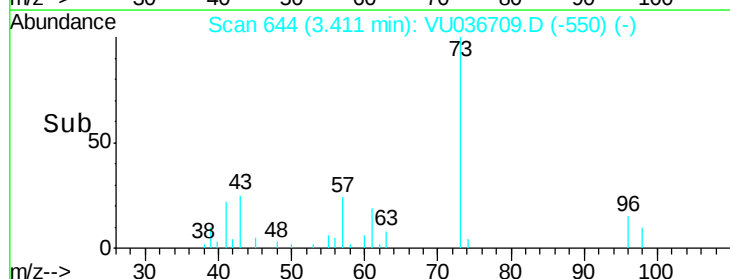
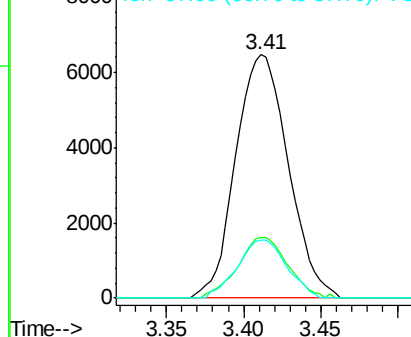
73 100

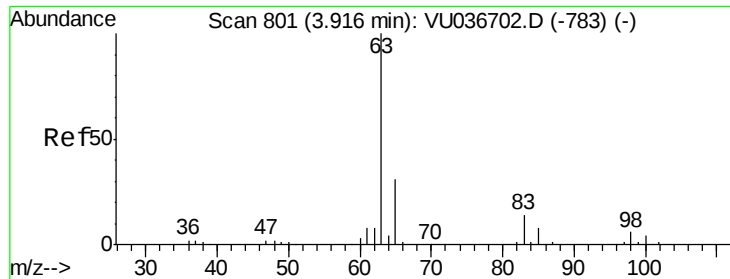
43 23.6 18.6 28.0

57 22.4 18.3 27.5



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





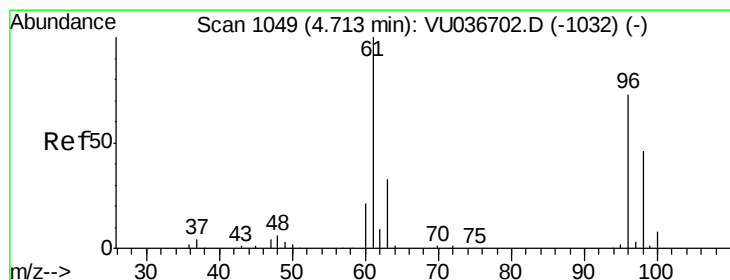
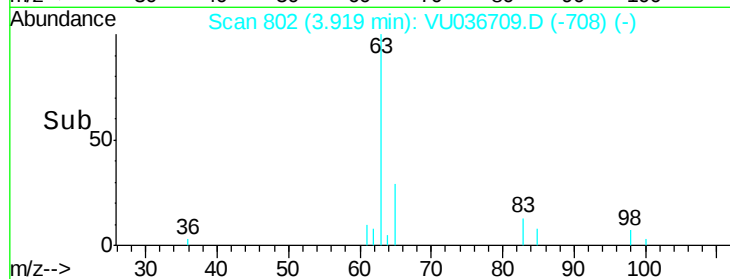
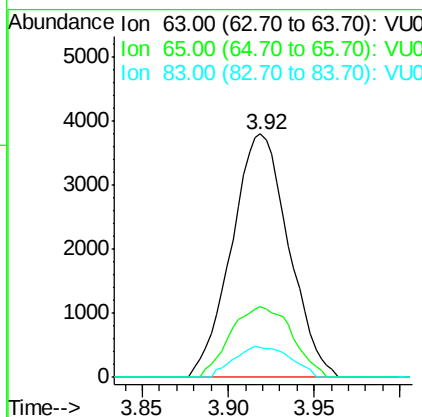
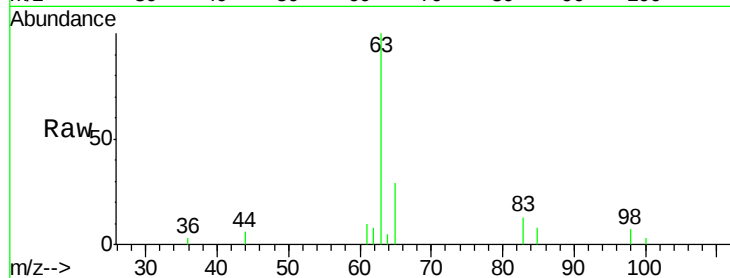
#19
 1,1-Dichloroethane
 Concen: 2.590 ug/L
 RT: 3.92 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: VU036709.D
 Acq: 10 Feb 2020 13:36

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
63	100		
65	28.8	22.0	40.8
83	12.5	10.1	18.7

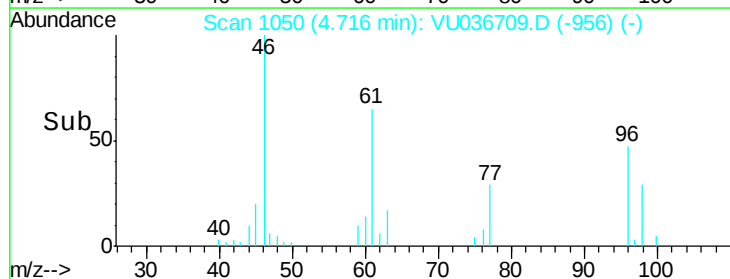
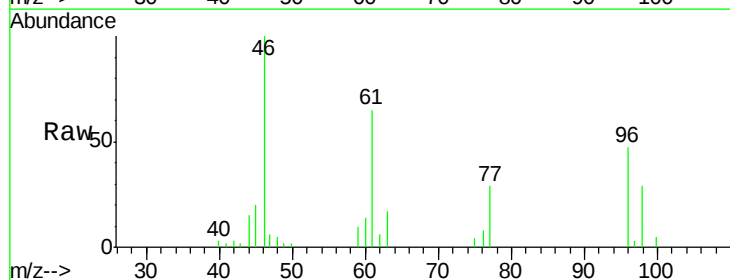
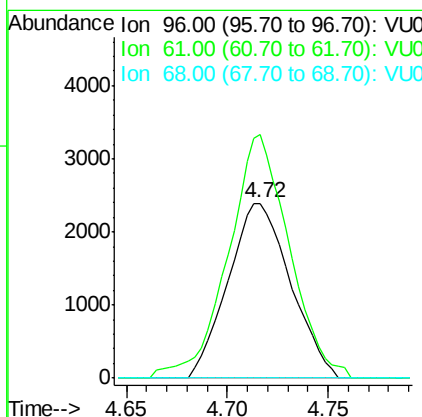
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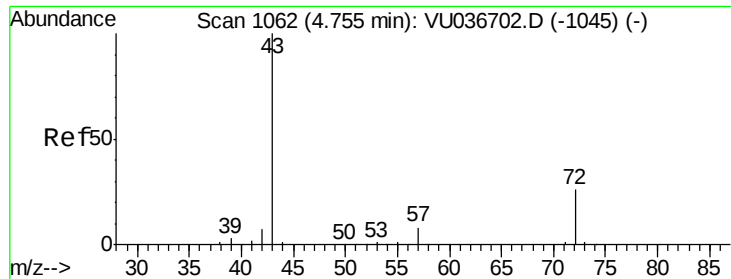
MMDadoda
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#20
 cis-1,2-Dichloroethene
 Concen: 2.669 ug/L
 RT: 4.72 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VU036709.D
 Acq: 10 Feb 2020 13:36

Tgt Ion	Ratio	Lower	Upper
96	100		
61	139.2	93.3	173.3
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 5.868 ug/L

RT: 4.76 min Scan# 1063

Delta R.T. 0.00 min

Lab File: VU036709.D

Acq: 10 Feb 2020 13:36

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 43 Resp: 10966

Ion Ratio Lower Upper

43 100

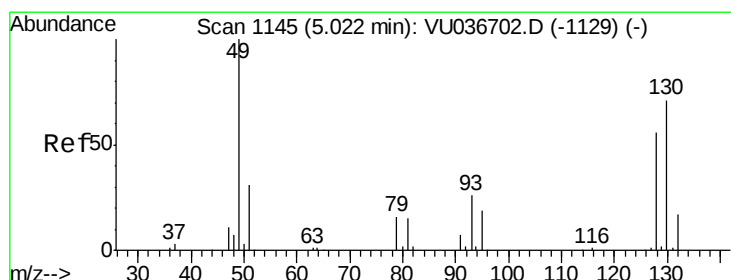
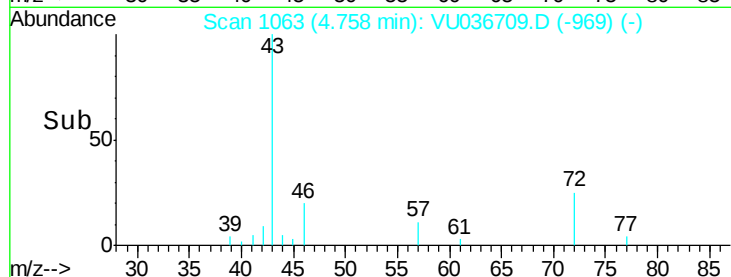
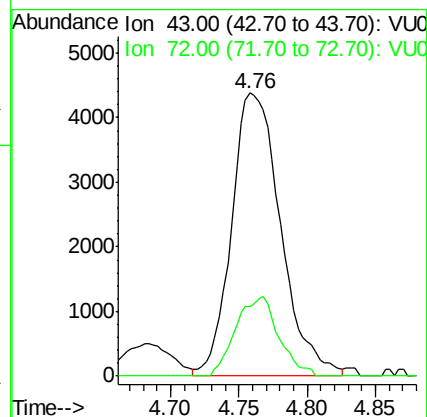
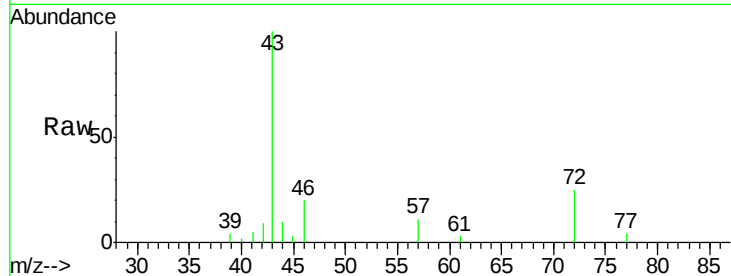
72 24.5 13.6 40.7

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#23

Bromochloromethane

Concen: 2.482 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. 0.00 min

Lab File: VU036709.D

Acq: 10 Feb 2020 13:36

Tgt Ion: 128 Resp: 2244

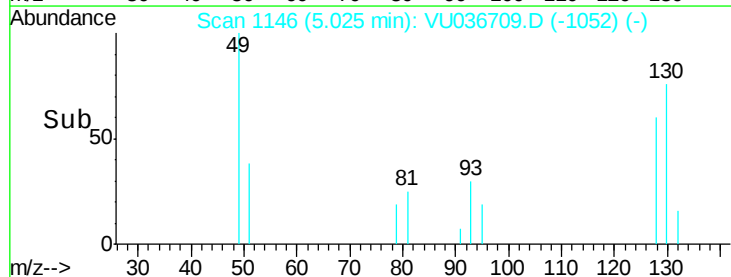
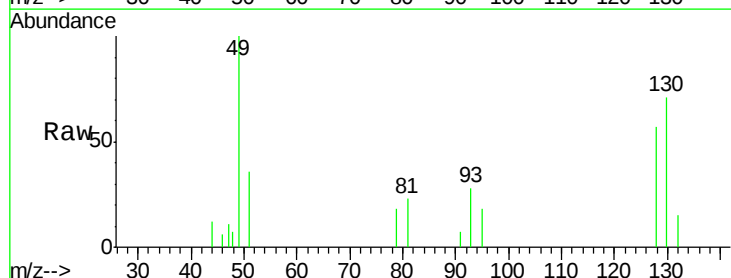
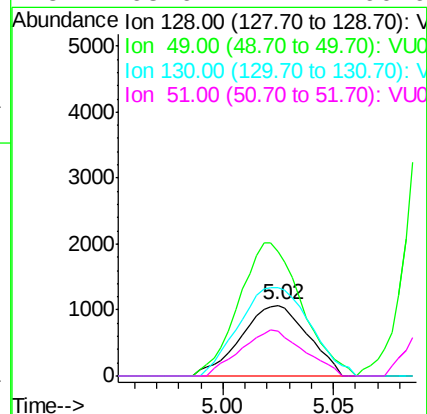
Ion Ratio Lower Upper

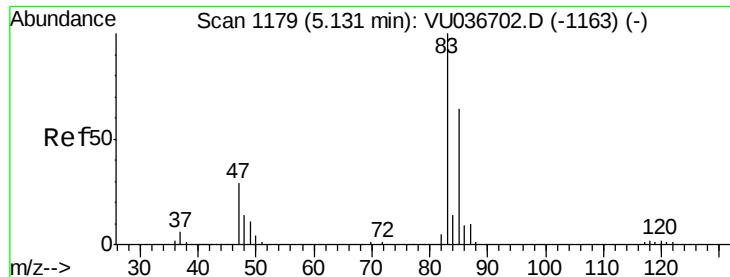
128 100

49 175.6 127.3 236.5

130 125.4 88.5 164.3

51 63.6 44.4 66.6





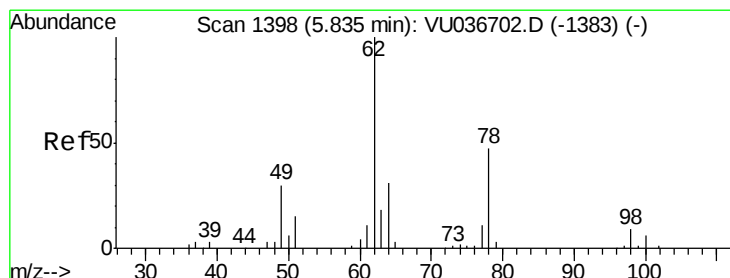
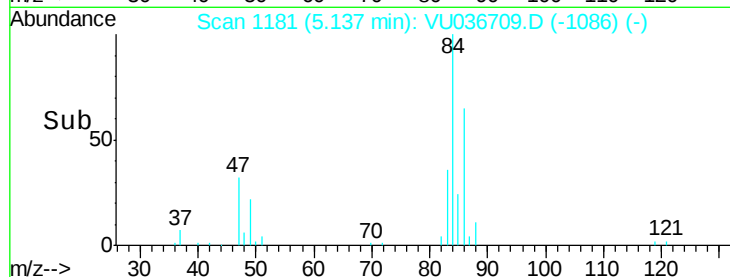
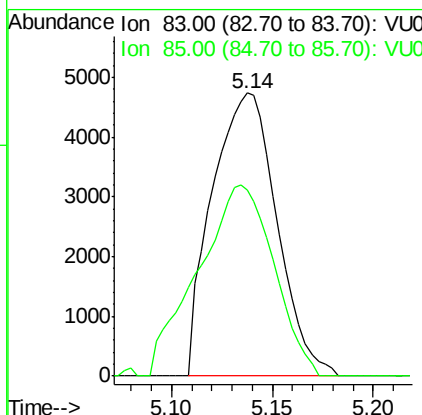
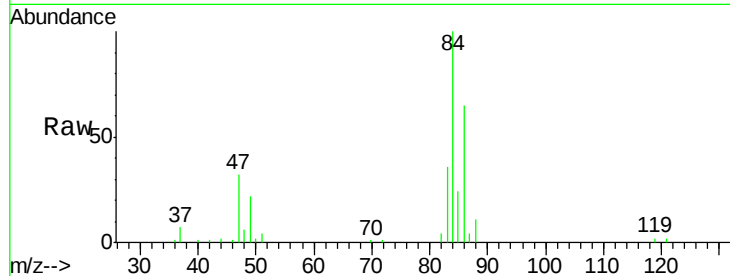
#25
Chloroform
Concen: 3.227 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. 0.01 min
Lab File: VU036709.D
Acq: 10 Feb 2020 13:36

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion	83	Resp	10586
Ion Ratio	100	Lower	Upper
85	65.7	44.6	82.8

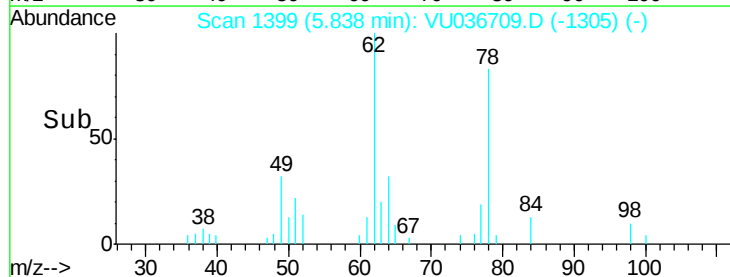
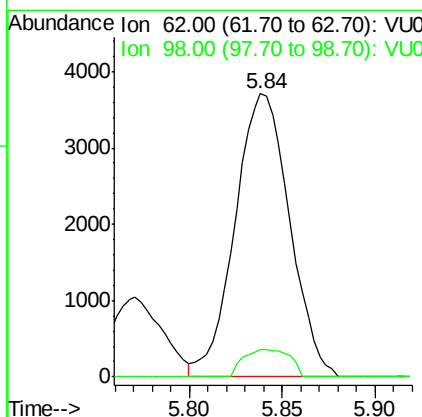
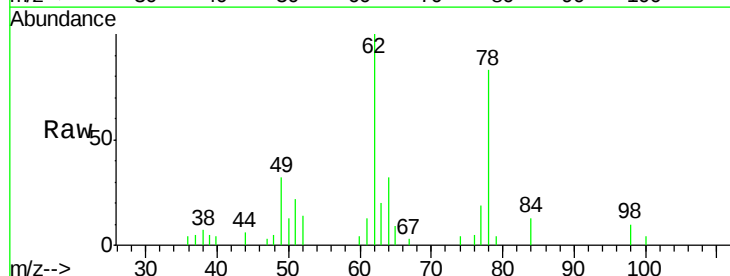
Manual Integrations
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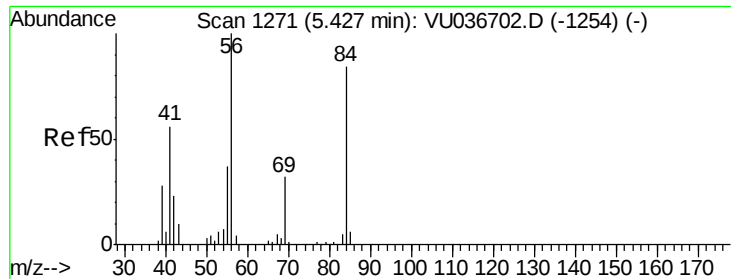
MMDadoda
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#27
1,2-Dichloroethane
Concen: 2.743 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. 0.00 min
Lab File: VU036709.D
Acq: 10 Feb 2020 13:36

Tgt Ion	62	Resp	7567
Ion Ratio	100	Lower	Upper
98	9.6	7.0	10.4





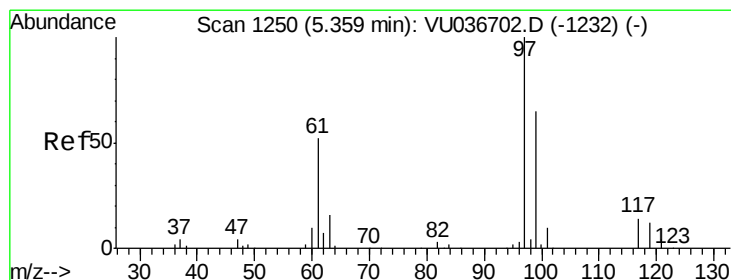
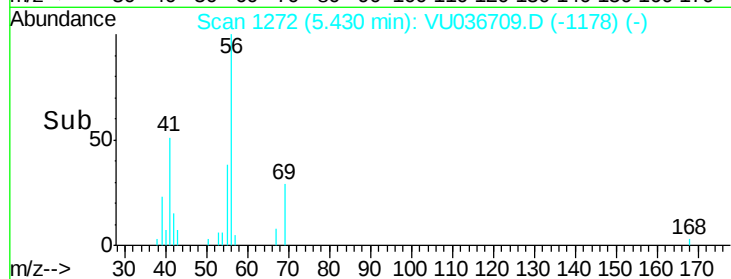
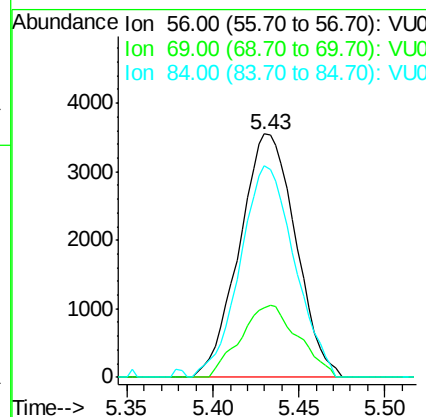
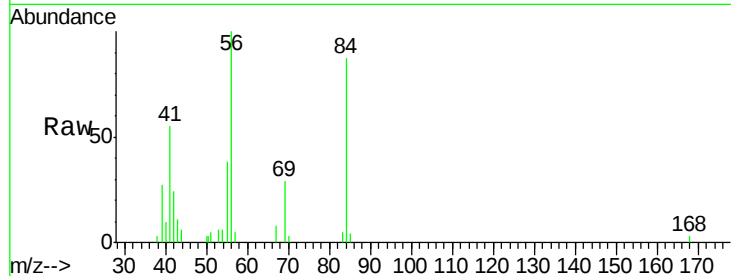
#29
Cyclohexane
Concen: 2.582 ug/L
RT: 5.43 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU036709.D
Acq: 10 Feb 2020 13:36

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.3	25.0	37.4
84	84.1	68.2	102.2

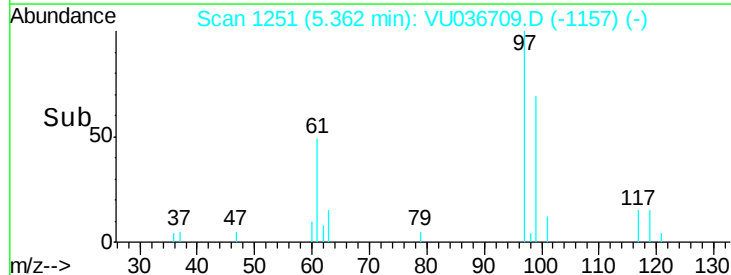
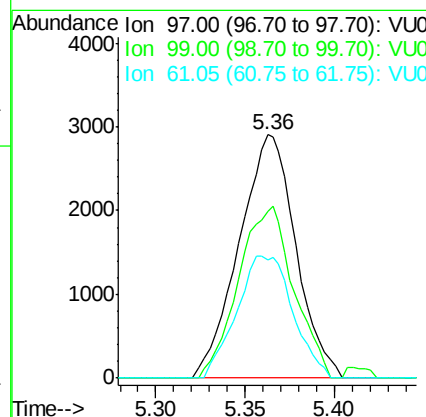
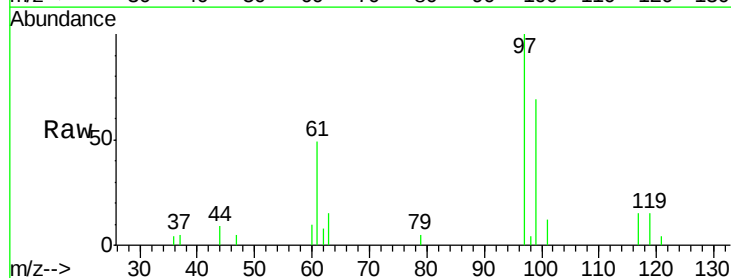
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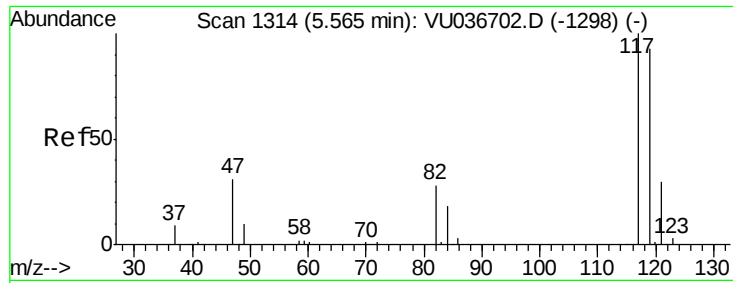
MMDadoda
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#30
1,1,1-Trichloroethane
Concen: 2.502 ug/L
RT: 5.36 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU036709.D
Acq: 10 Feb 2020 13:36

Tgt Ion	Ratio	Lower	Upper
97	100		
99	68.7	50.9	76.3
61	49.7	40.2	60.2





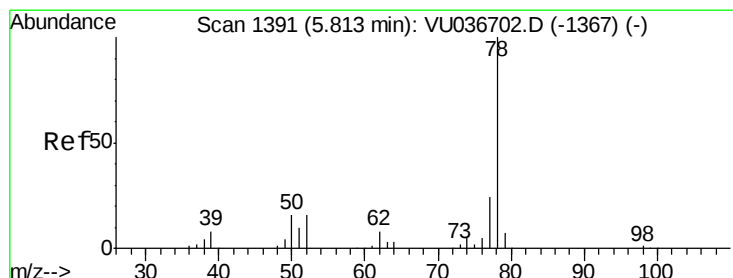
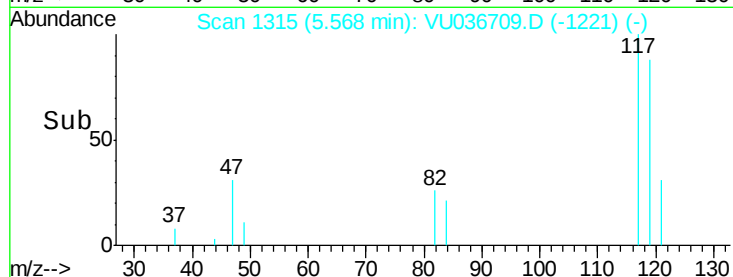
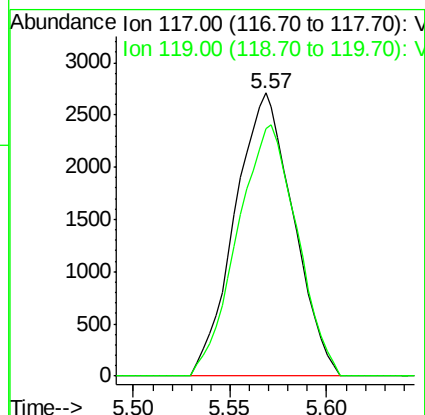
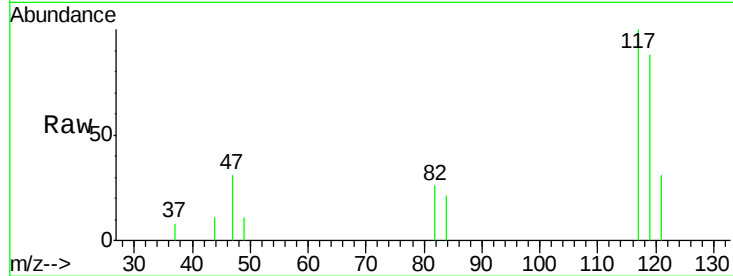
#31
Carbon tetrachloride
Concen: 2.727 ug/L
RT: 5.57 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VU036709.D
Acq: 10 Feb 2020 13:36

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion:117 Resp: 5694
Ion Ratio Lower Upper
117 100
119 90.9 76.2 114.4

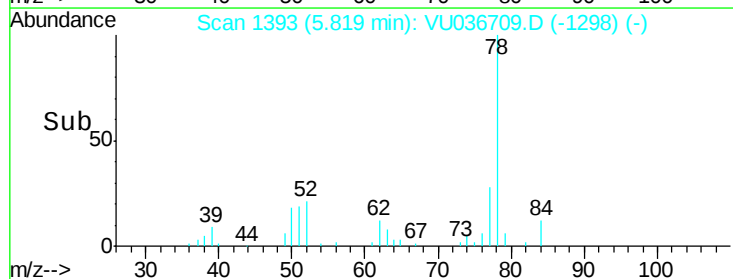
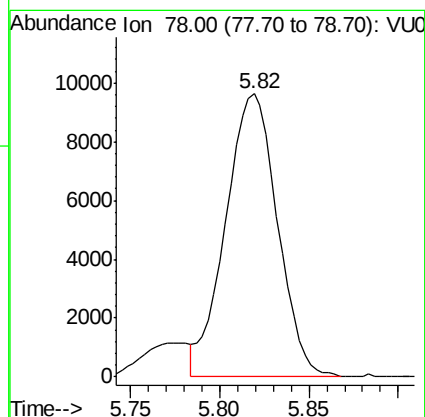
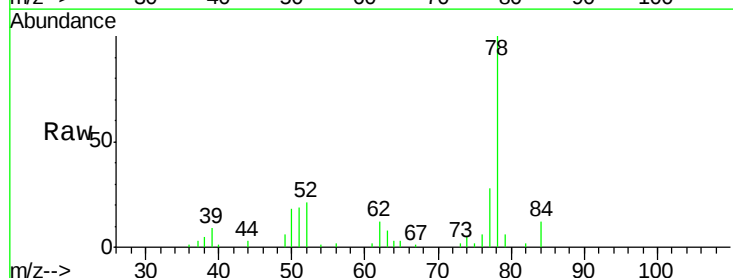
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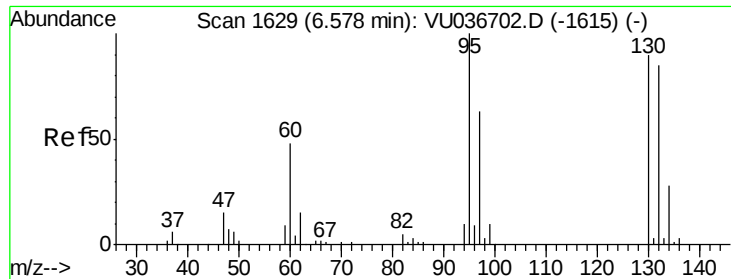
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#33
Benzene
Concen: 2.656 ug/L
RT: 5.82 min Scan# 1393
Delta R.T. 0.01 min
Lab File: VU036709.D
Acq: 10 Feb 2020 13:36

Tgt Ion: 78 Resp: 19502





#34

Trichloroethene

Concen: 2.578 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU036709.D

Acq: 10 Feb 2020 13:36

Instrument :

MSVOA_U

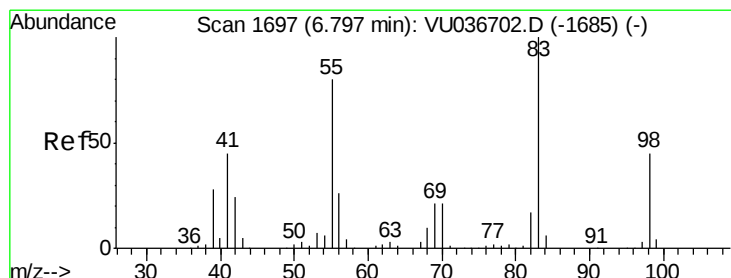
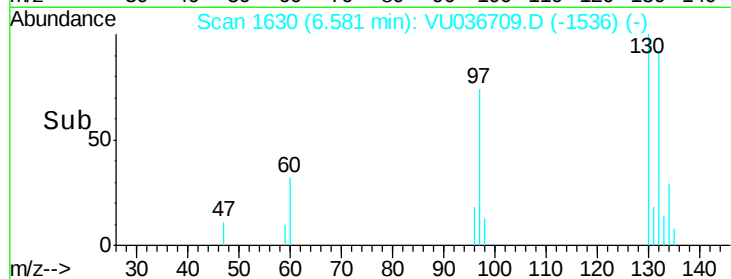
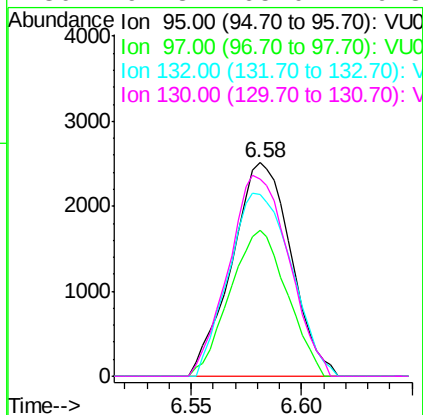
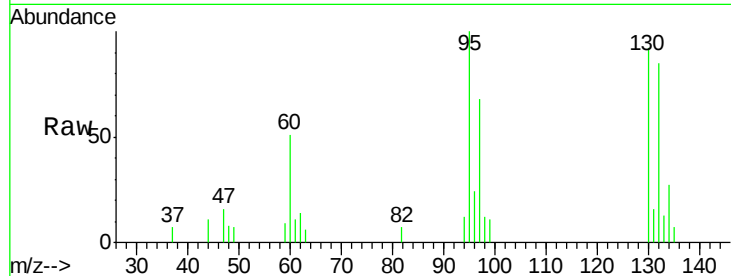
ClientSampleId :

MDL04

Tot Ion:	95	Resp:	4680
Ion	Ratio	Lower	Upper
95	100		
97	68.3	44.5	82.7
132	85.2	59.6	110.8
130	92.3	65.0	120.8

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#35

Methylcyclohexane

Concen: 2.539 ug/L

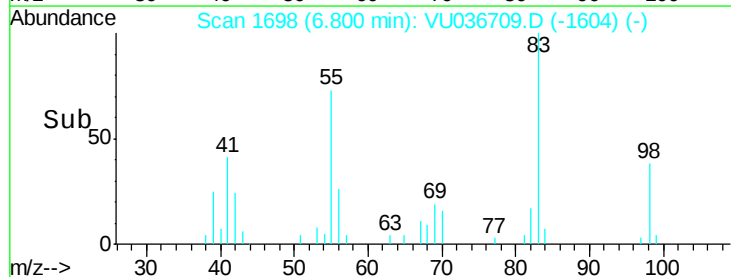
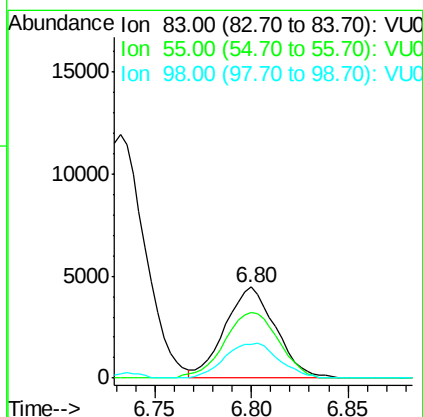
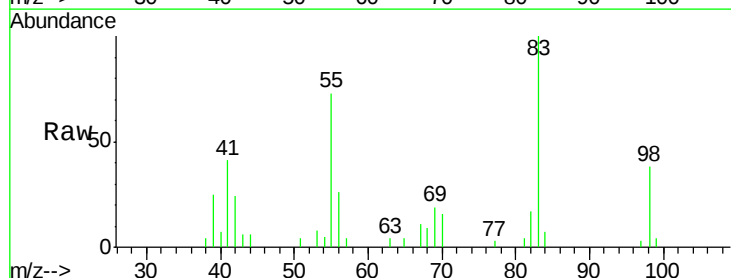
RT: 6.80 min Scan# 1698

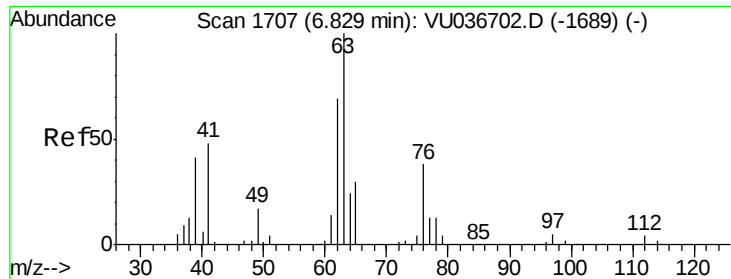
Delta R.T. 0.00 min

Lab File: VU036709.D

Acq: 10 Feb 2020 13:36

Tgt Ion:	83	Resp:	8118
Ion	Ratio	Lower	Upper
83	100		
55	76.9	61.2	91.8
98	41.1	35.4	53.0





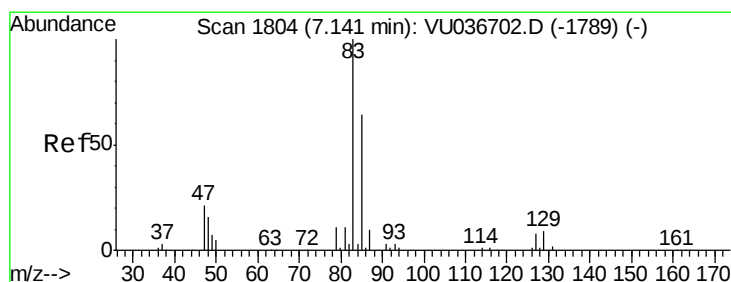
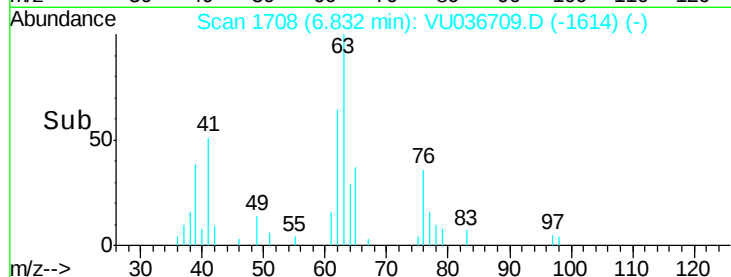
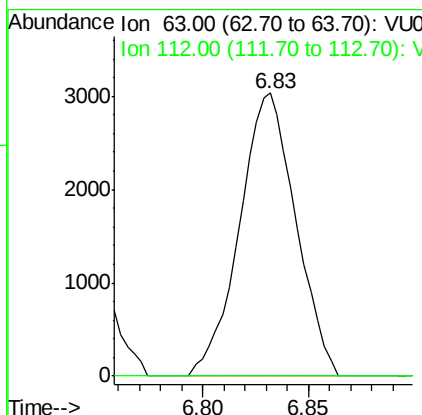
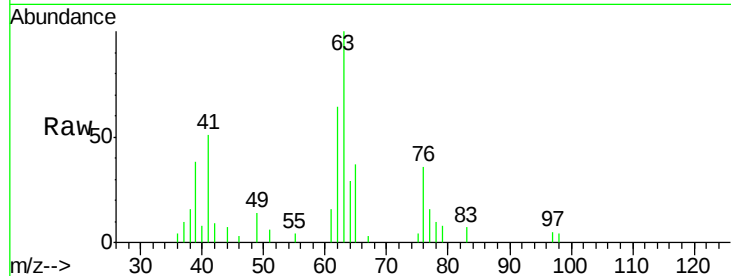
#37
 1,2-Dichloropropane
 Concen: 2.835 ug/L
 RT: 6.83 min Scan# 1708
 Delta R.T. 0.00 min
 Lab File: VU036709.D
 Acq: 10 Feb 2020 13:36

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion: 63 Resp: 5613
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.1 4.7#

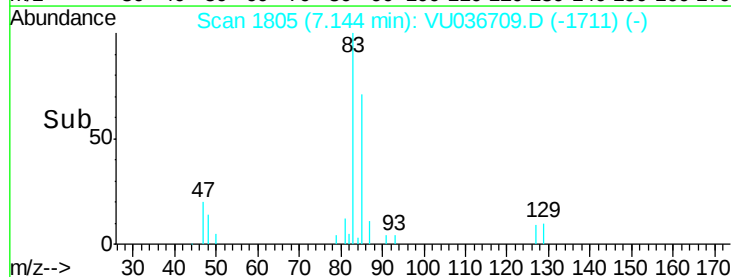
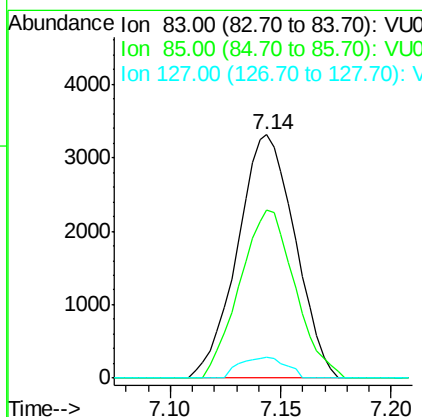
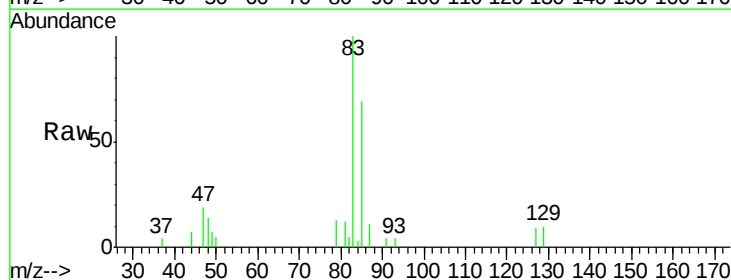
Manual Integrations
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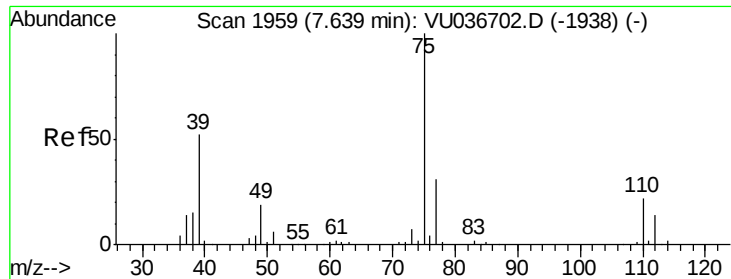
MMDadoda
 2/12/2020 3:10:10 PM



#38
 Bromodichloromethane
 Concen: 2.484 ug/L
 RT: 7.14 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VU036709.D
 Acq: 10 Feb 2020 13:36

Tgt Ion: 83 Resp: 5977
 Ion Ratio Lower Upper
 83 100
 85 68.9 43.9 81.5
 127 8.7 6.0 9.0





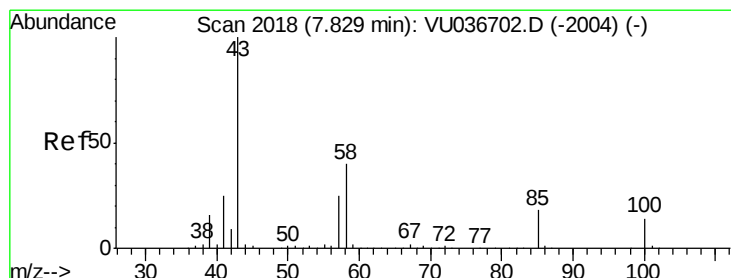
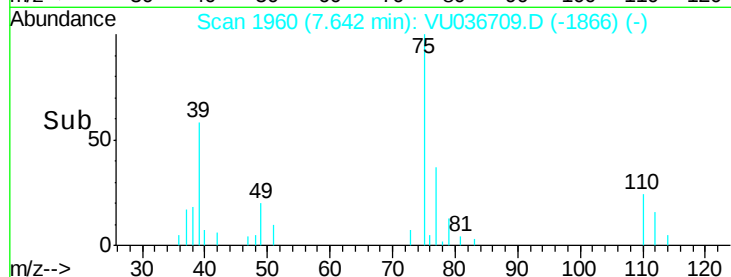
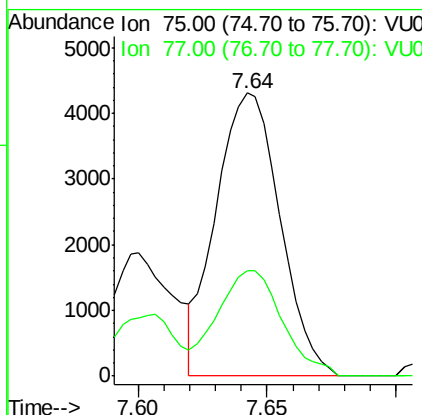
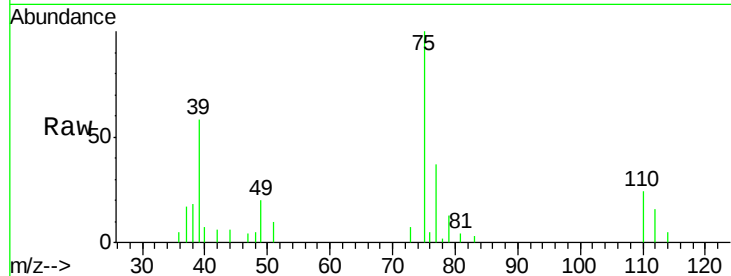
#39
 cis-1,3-Dichloropropene
 Concen: 2.353 ug/L
 RT: 7.64 min Scan# 1960
 Delta R.T. 0.00 min
 Lab File: VU036709.D
 Acq: 10 Feb 2020 13:36

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

Tot Ion	Ratio	Lower	Upper
75	100		
77	37.5	22.3	41.5

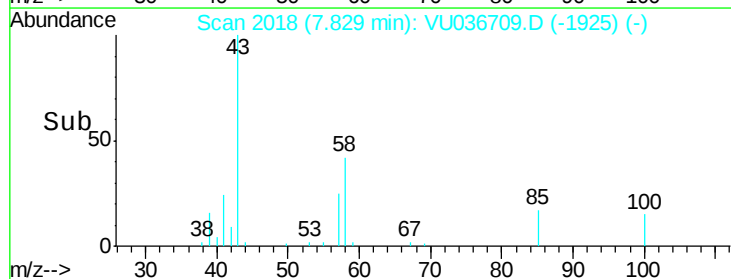
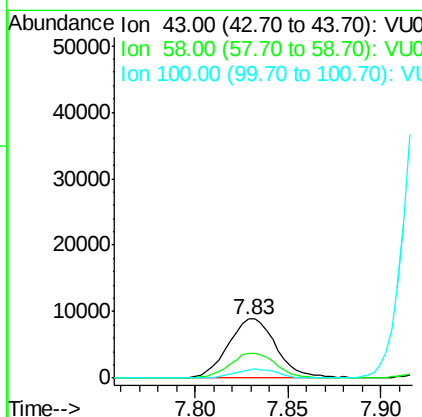
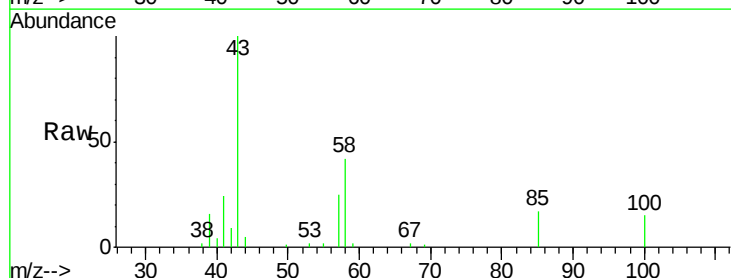
Manual Integrations
 APPROVED

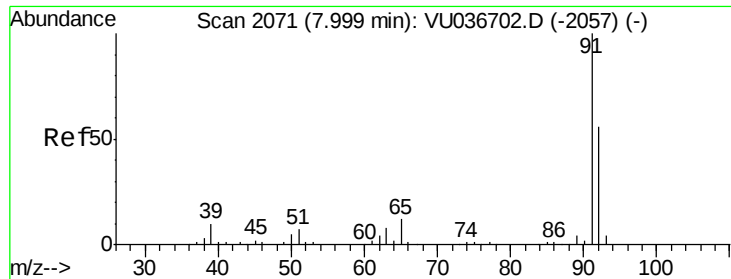
MMDadoda
 2/12/2020 3:10:10 PM



#40
 4-Methyl-2-pentanone
 Concen: 5.124 ug/L
 RT: 7.83 min Scan# 2018
 Delta R.T. -0.00 min
 Lab File: VU036709.D
 Acq: 10 Feb 2020 13:36

Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.5	31.0	46.6
100	13.8	11.4	17.2





#42

Toluene

Concen: 2.750 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036709.D

Acq: 10 Feb 2020 13:36

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 91 Resp: 21816

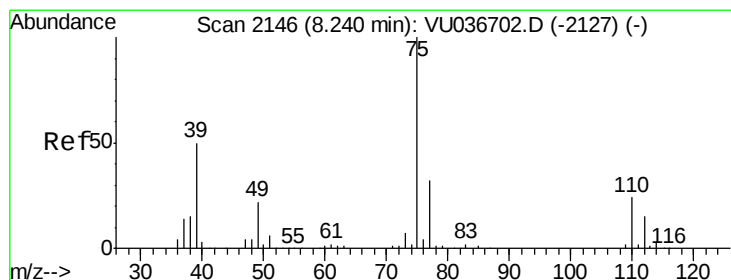
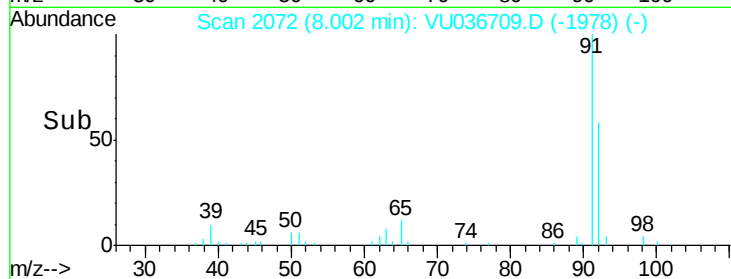
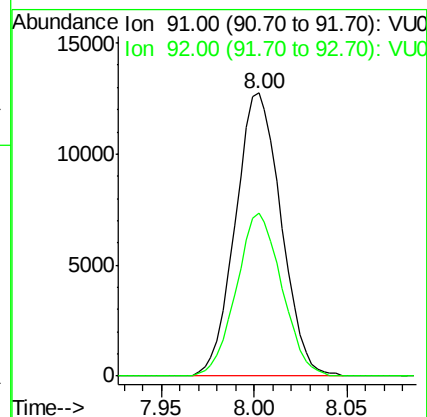
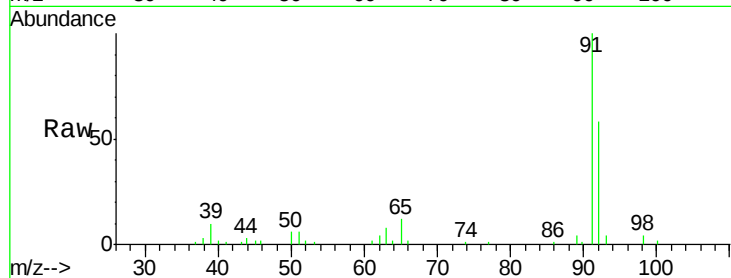
Ion Ratio Lower Upper

91 100

92 57.8 39.5 73.3

Manual Integrations
APPROVED

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



#44

trans-1,3-Dichloropropene

Concen: 2.544 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036709.D

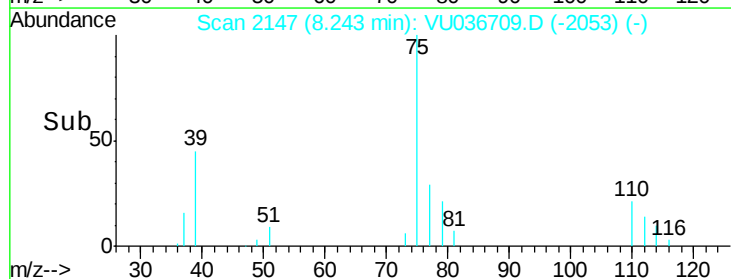
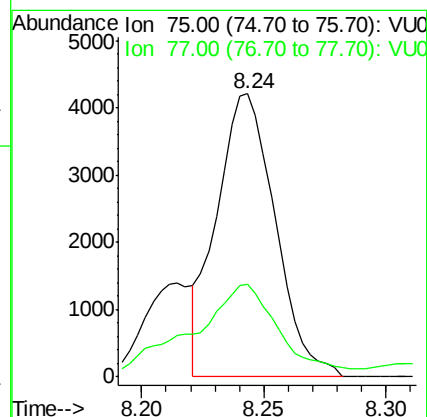
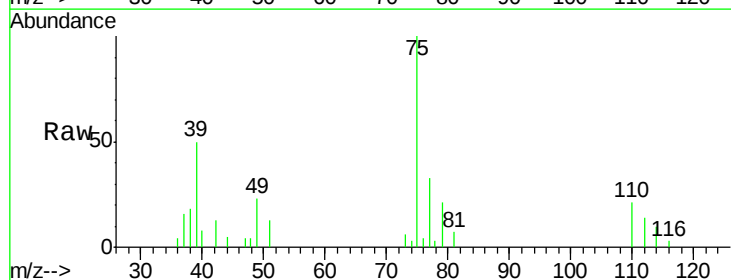
Acq: 10 Feb 2020 13:36

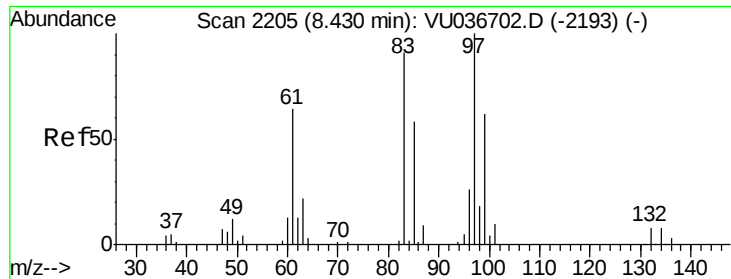
Tgt Ion: 75 Resp: 7031

Ion Ratio Lower Upper

75 100

77 32.7 22.6 42.0





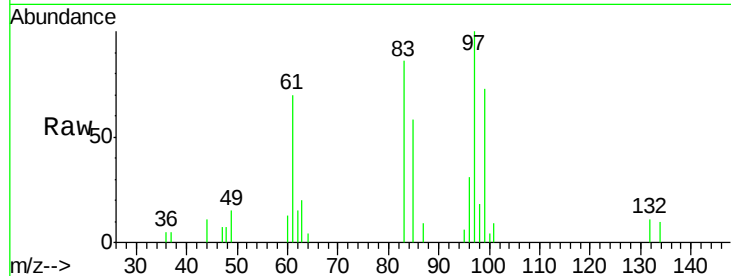
#45
 1,1,2-Trichloroethane
 Concen: 2.508 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. 0.00 min
 Lab File: VU036709.D
 Acq: 10 Feb 2020 13:36

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion:	97	Resp:	4530
Ion	Ratio	Lower	Upper
97	100		
99	72.6	42.6	79.0
83	86.0	61.1	113.5
85	58.0	40.4	75.0

Manual Integrations
 APPROVED

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



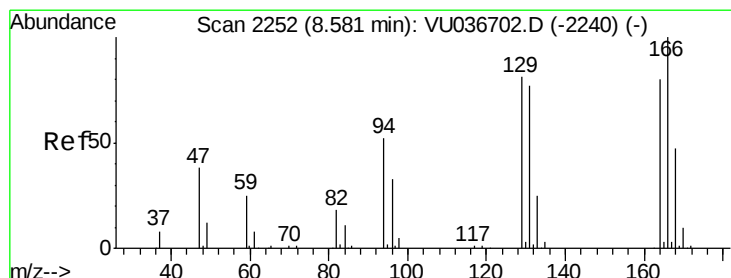
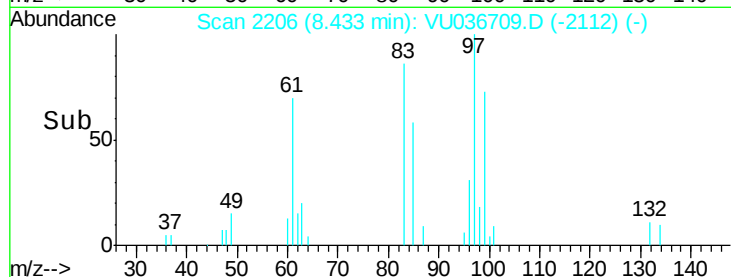
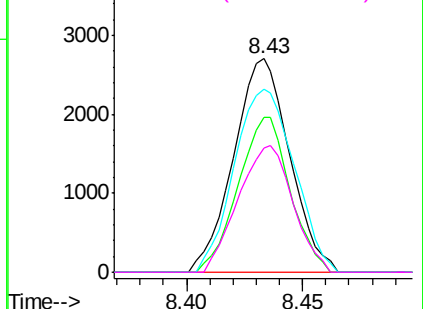
Abundance

Ion 97.00 (96.70 to 97.70): VU036709.D (-2112) (-)

Ion 99.00 (98.70 to 99.70): VU036709.D (-2112) (-)

Ion 83.00 (82.70 to 83.70): VU036709.D (-2112) (-)

Ion 85.00 (84.70 to 85.70): VU036709.D (-2112) (-)



#46
 Tetrachloroethene
 Concen: 2.848 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VU036709.D
 Acq: 10 Feb 2020 13:36

Tgt Ion:	164	Resp:	3629
Ion	Ratio	Lower	Upper
164	100		
129	99.8	71.0	131.9
131	100.2	66.6	123.6
166	134.0	86.4	160.4

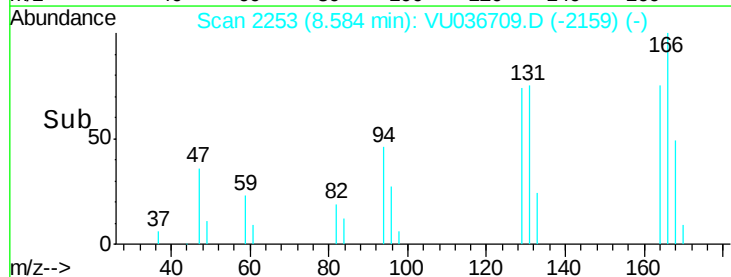
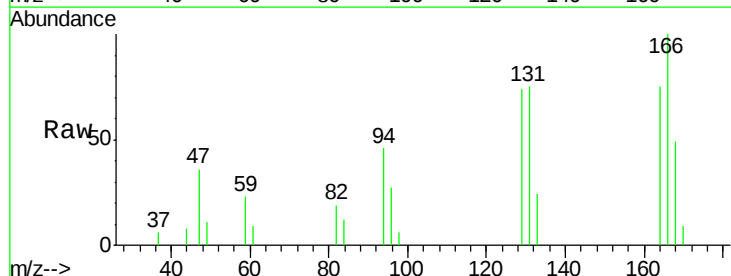
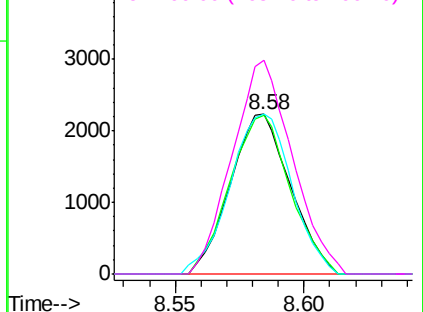
Abundance

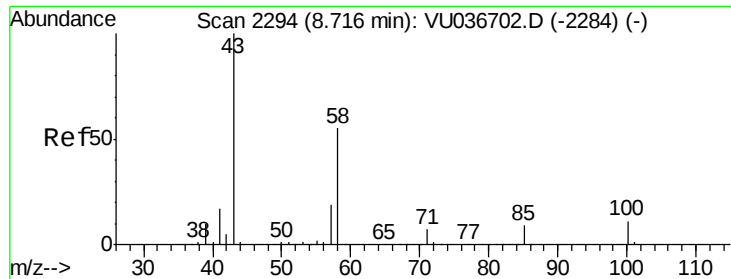
Ion 164.00 (163.70 to 164.70): VU036709.D (-2159) (-)

Ion 129.00 (128.70 to 129.70): VU036709.D (-2159) (-)

Ion 131.00 (130.70 to 131.70): VU036709.D (-2159) (-)

Ion 166.00 (165.70 to 166.70): VU036709.D (-2159) (-)





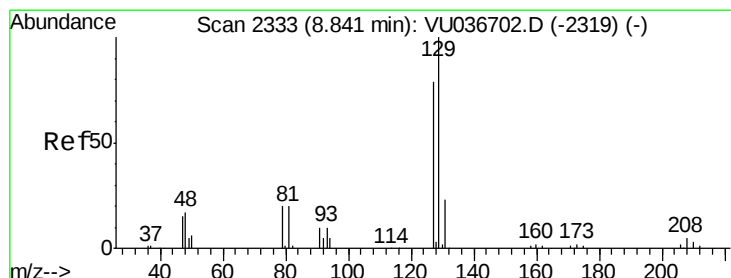
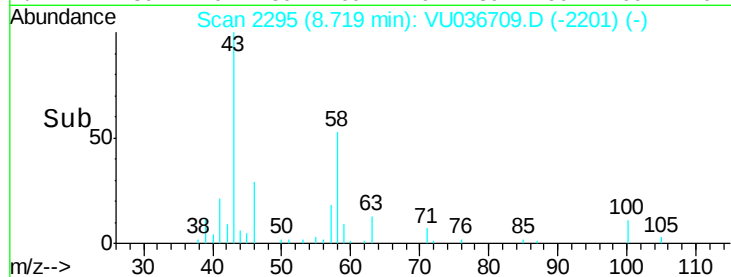
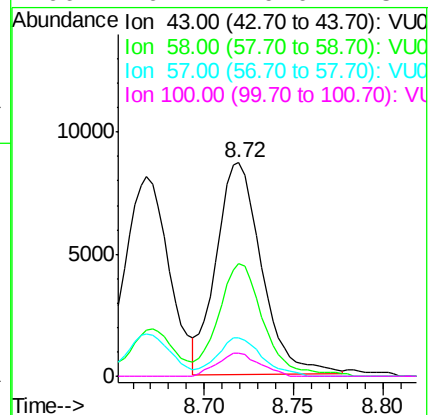
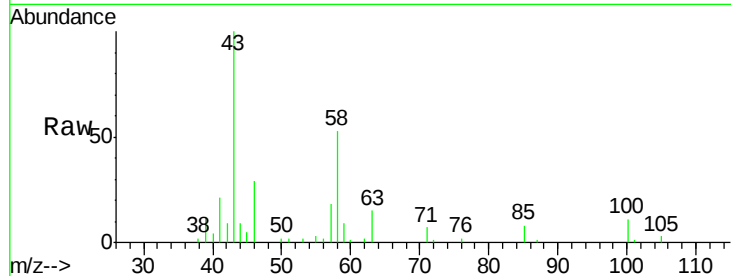
#48
2-Hexanone
Concen: 6.011 ug/L
RT: 8.72 min Scan# 2295
Delta R.T. 0.00 min
Lab File: VU036709.D
Acq: 10 Feb 2020 13:36

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.5	43.6	65.4
57	18.0	15.5	23.3
100	10.2	9.0	13.4

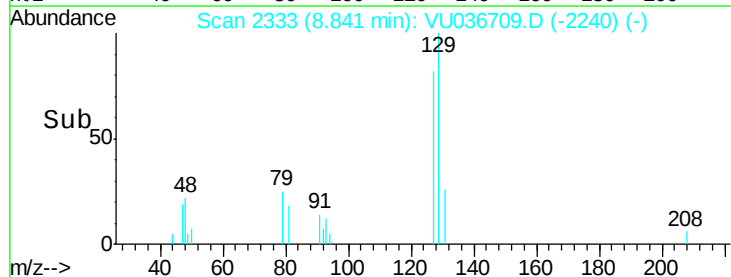
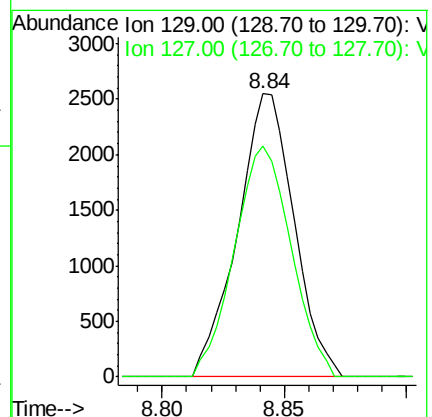
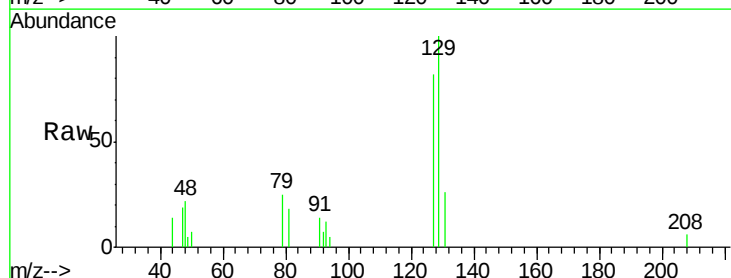
Manual Integrations
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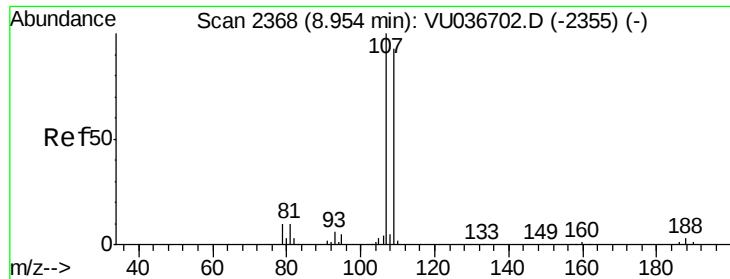
MMDadoda
2/12/2020 3:10:10 PM



#49
Dibromochloromethane
Concen: 2.311 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. -0.00 min
Lab File: VU036709.D
Acq: 10 Feb 2020 13:36

Tgt Ion	Ratio	Lower	Upper
129	100		
127	81.6	53.6	99.6





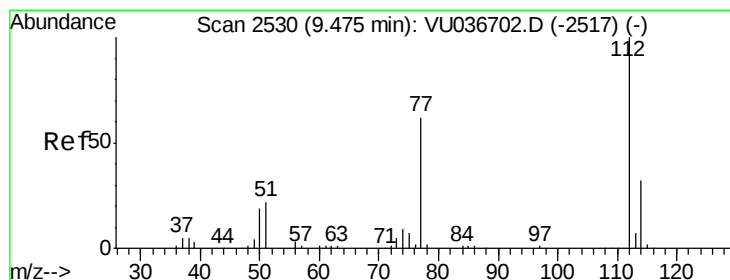
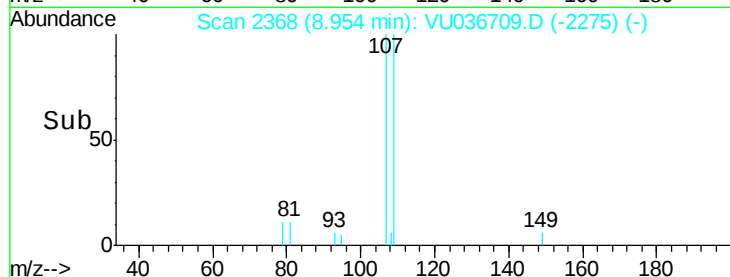
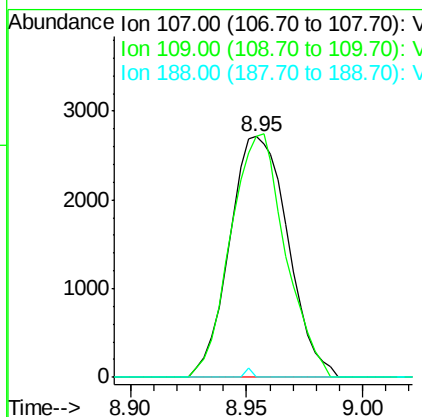
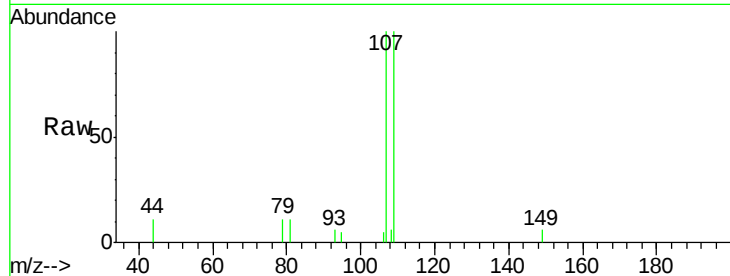
#50
 1,2-Dibromoethane
 Concen: 2.492 ug/L
 RT: 8.95 min Scan# 2368
 Delta R.T. -0.00 min
 Lab File: VU036709.D
 Acq: 10 Feb 2020 13:36

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
107	100		
109	100.2	65.8	122.2
188	0.0	2.5	3.7#

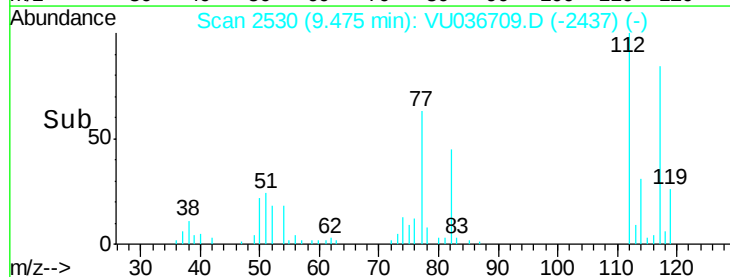
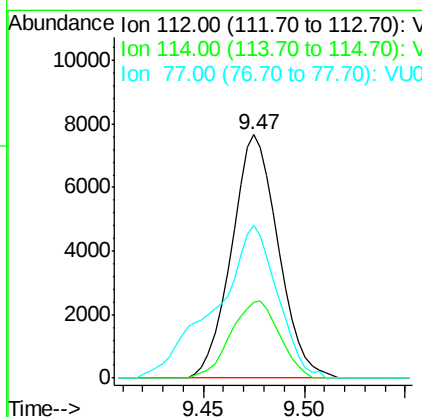
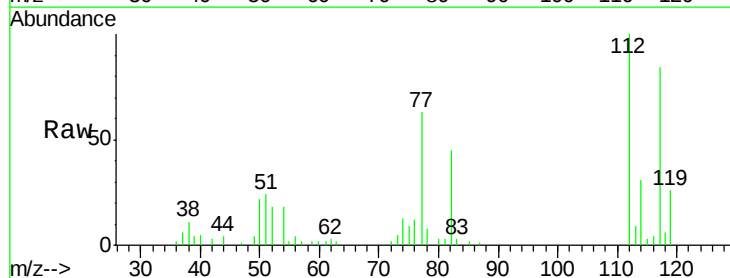
Manual Integrations
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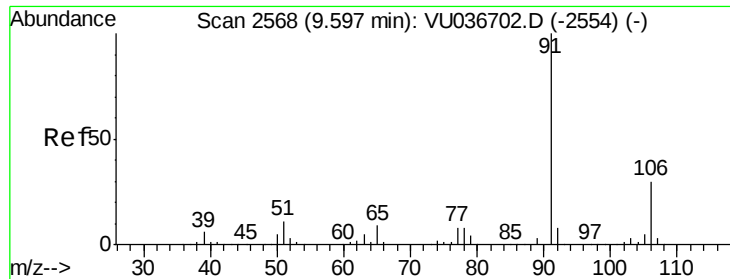
MMDadoda
 2/12/2020 3:10:10 PM



#51
 Chlorobenzene
 Concen: 2.594 ug/L
 RT: 9.47 min Scan# 2530
 Delta R.T. -0.00 min
 Lab File: VU036709.D
 Acq: 10 Feb 2020 13:36

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.2	22.7	42.1
77	62.8	50.6	75.8





#52

Ethylbenzene

Concen: 2.570 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. -0.00 min

Lab File: VU036709.D

Acq: 10 Feb 2020 13:36

Tot Ion: 91 Resp: 22402

Ion Ratio Lower Upper

91 100

106 31.1 21.3 39.6

Instrument :

MSVOA_U

ClientSampled :

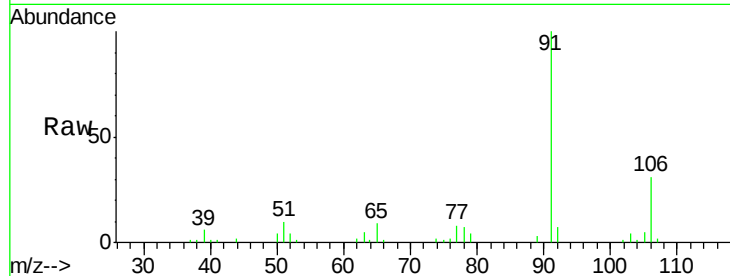
MDL04

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VU036709.D (-2475) (-)

Ion 106.00 (105.70 to 106.70): VU036709.D (-2475) (-)

15000

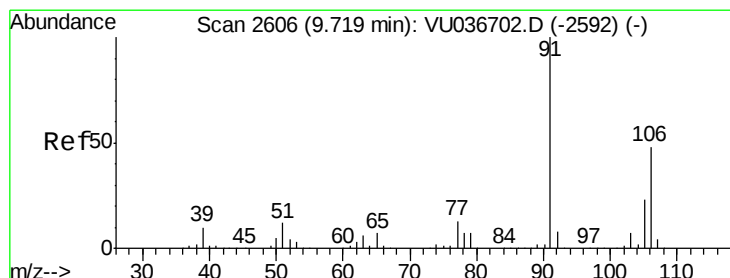
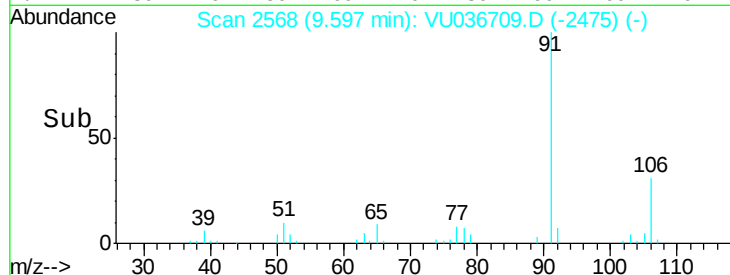
10000

5000

0

9.55 9.60 9.65

Time-->



#53

m,p-Xylene

Concen: 2.536 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VU036709.D

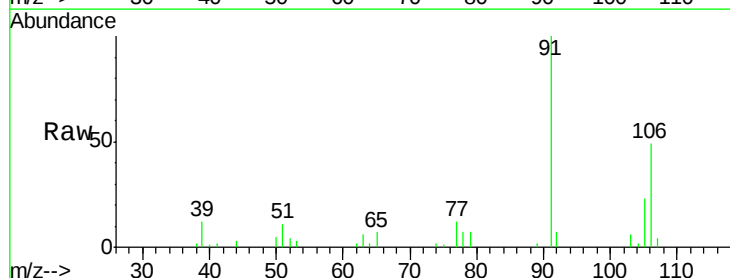
Acq: 10 Feb 2020 13:36

Tgt Ion: 106 Resp: 8155

Ion Ratio Lower Upper

106 100

91 202.3 145.9 270.9



Abundance Ion 106.00 (105.70 to 106.70): VU036709.D (-2513) (-)

Ion 91.00 (90.70 to 91.70): VU036709.D (-2513) (-)

12000

10000

8000

6000

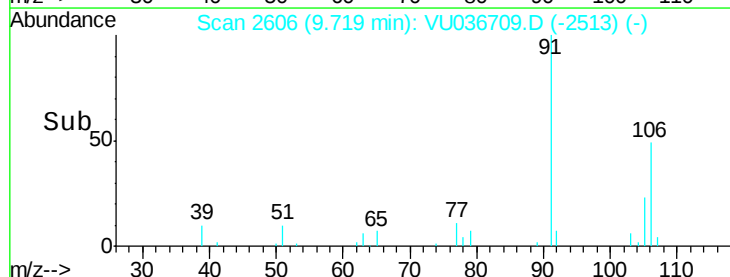
4000

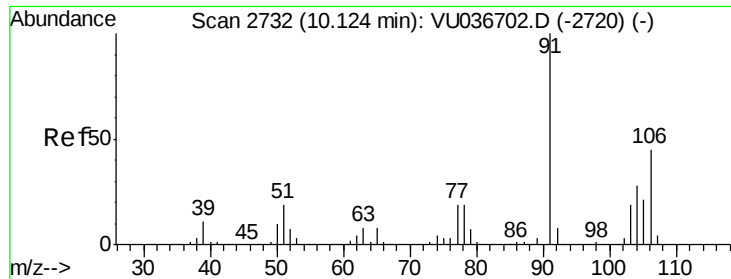
2000

0

9.70 9.75

Time-->





#54

o-xylene

Concen: 2.439 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU036709.D

Acq: 10 Feb 2020 13:36

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion:106 Resp: 7769

Ion Ratio Lower Upper

106 100

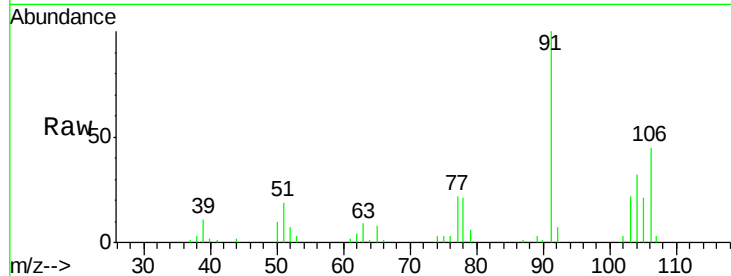
91 222.8 156.0 289.6

Manual Integrations

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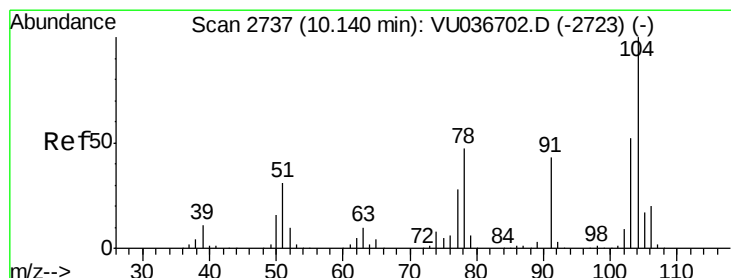
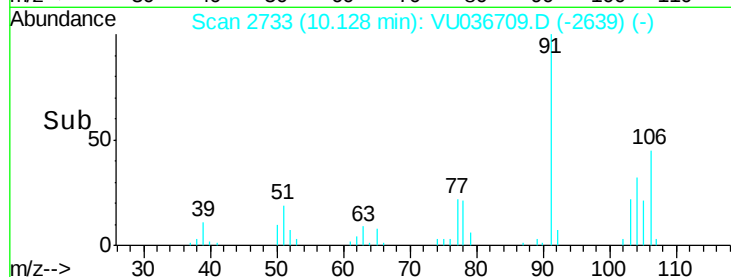
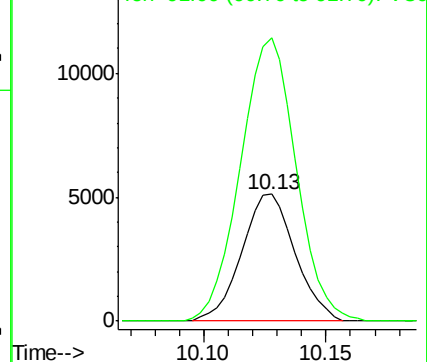
MMDadoda

2/12/2020 3:10:10 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.332 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. -0.00 min

Lab File: VU036709.D

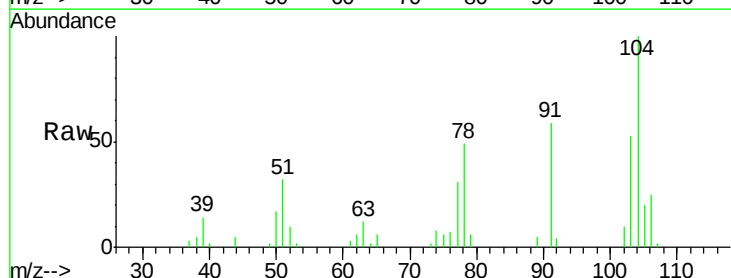
Acq: 10 Feb 2020 13:36

Tgt Ion:104 Resp: 12382

Ion Ratio Lower Upper

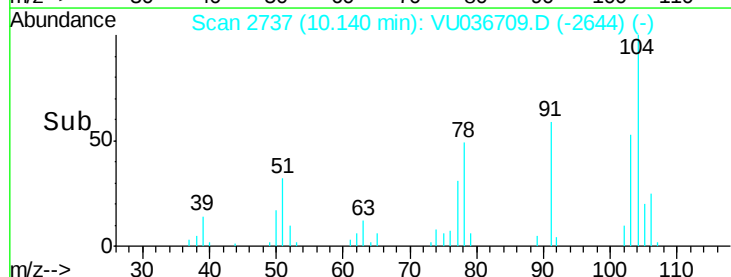
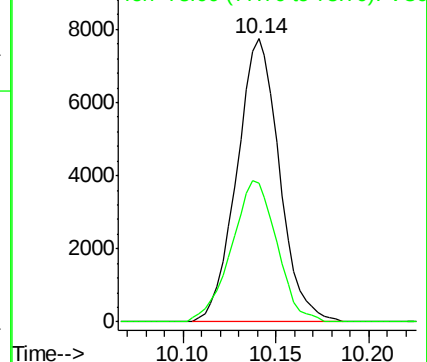
104 100

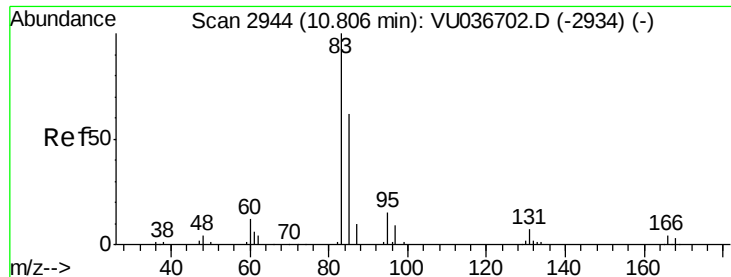
78 49.1 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





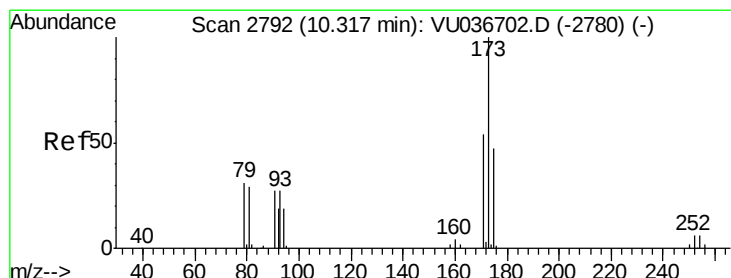
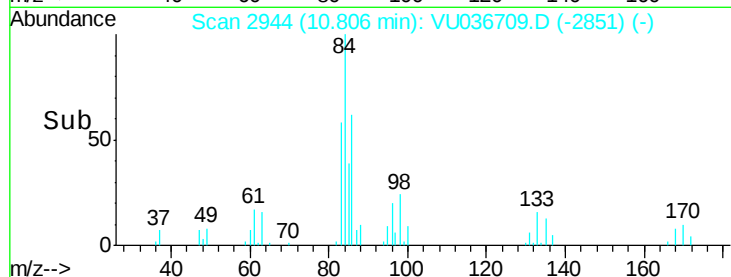
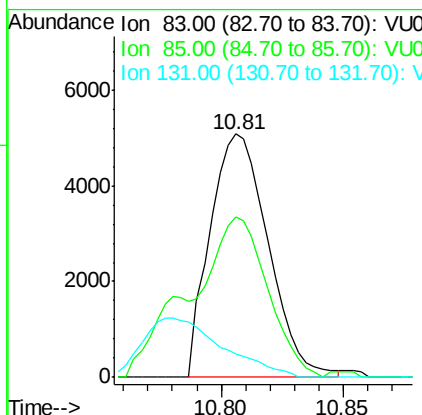
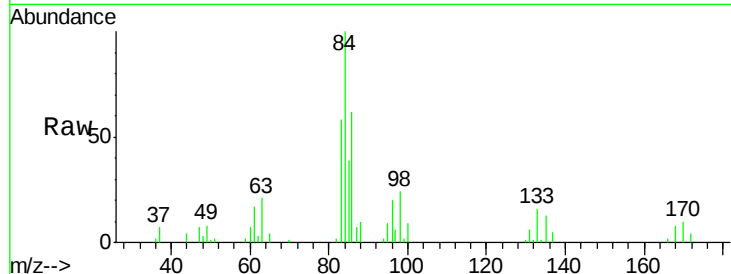
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.584 ug/L
 RT: 10.81 min Scan# 2944
 Delta R.T. -0.00 min
 Lab File: VU036709.D
 Acq: 10 Feb 2020 13:36

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
83	100		
85	66.0	44.7	82.9
131	9.7	6.8	10.2

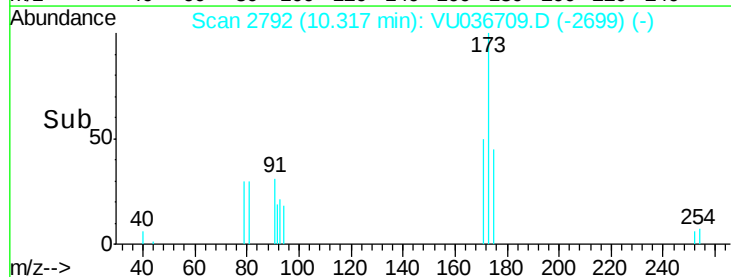
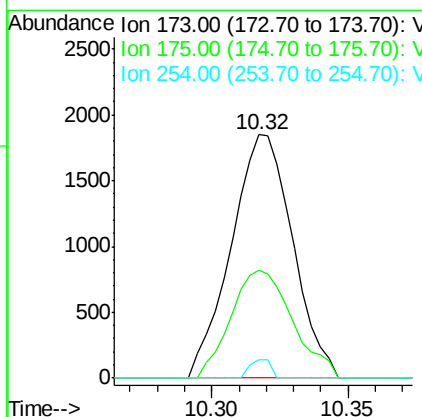
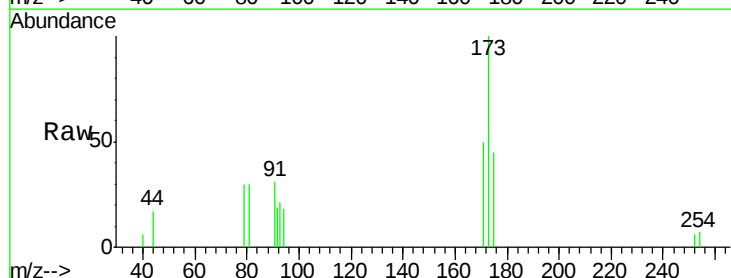
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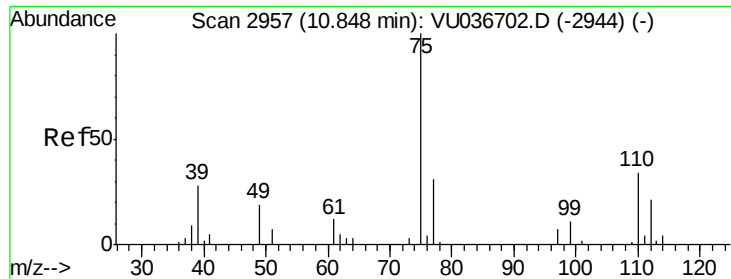
MMDadoda
 2/12/2020 3:10:10 PM



#59
 Bromoform
 Concen: 2.509 ug/L
 RT: 10.32 min Scan# 2792
 Delta R.T. -0.00 min
 Lab File: VU036709.D
 Acq: 10 Feb 2020 13:36

Tgt Ion	Ratio	Lower	Upper
173	100		
175	44.4	38.2	57.4
254	2.5	4.8	7.2#





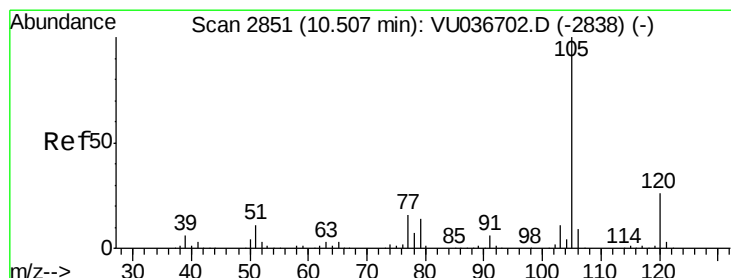
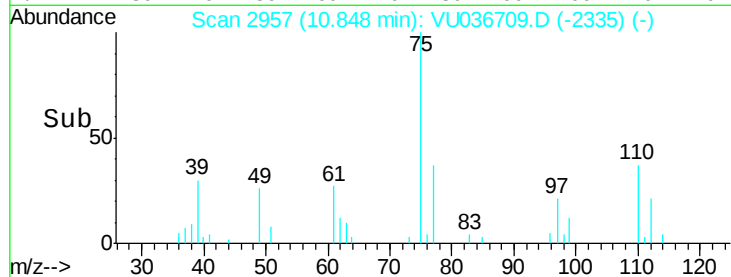
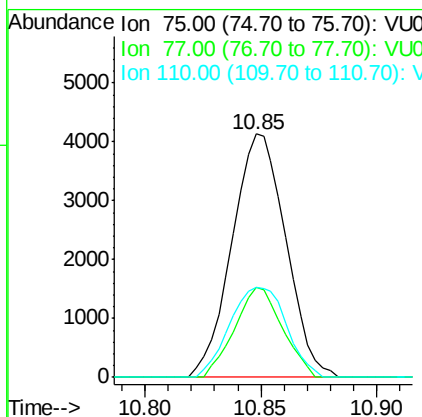
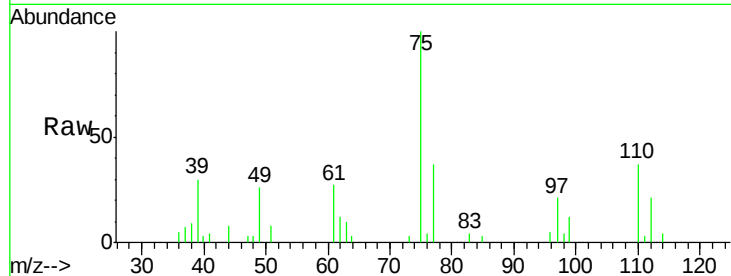
#60
 1,2,3-Trichloropropane
 Concen: 2.719 ug/L
 RT: 10.85 min Scan# 2957
 Delta R.T. -0.00 min
 Lab File: VU036709.D
 Acq: 10 Feb 2020 13:36

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.8	26.1	39.1
110	38.9	26.9	40.3

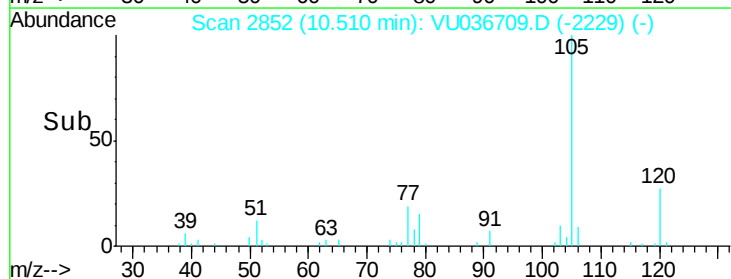
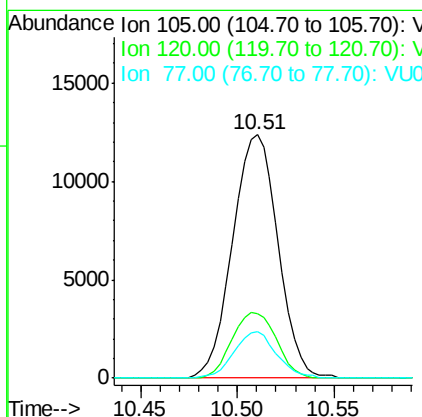
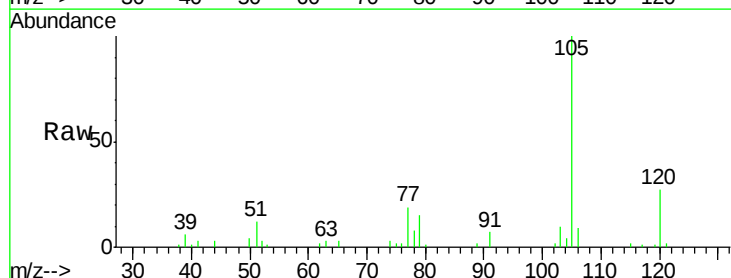
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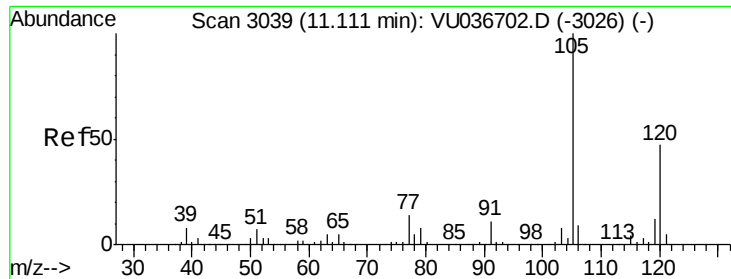
MMDadoda
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#61
 Isopropylbenzene
 Concen: 2.603 ug/L
 RT: 10.51 min Scan# 2852
 Delta R.T. 0.00 min
 Lab File: VU036709.D
 Acq: 10 Feb 2020 13:36

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.4	20.2	30.4
77	17.9	13.0	19.6





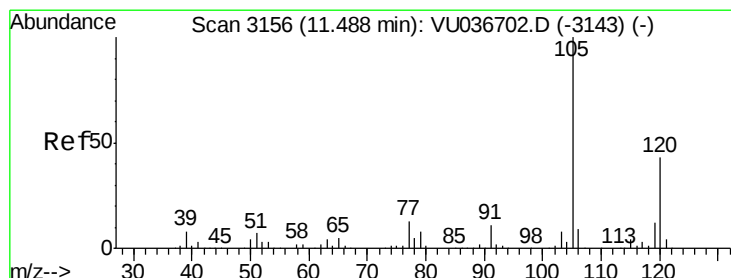
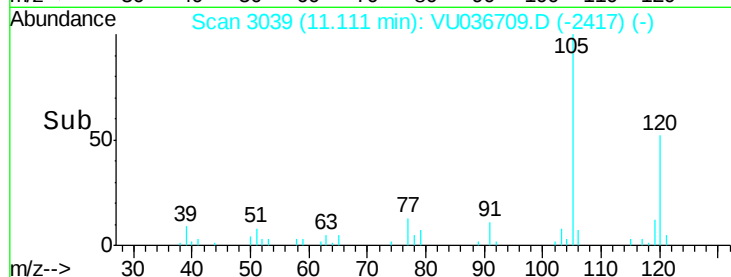
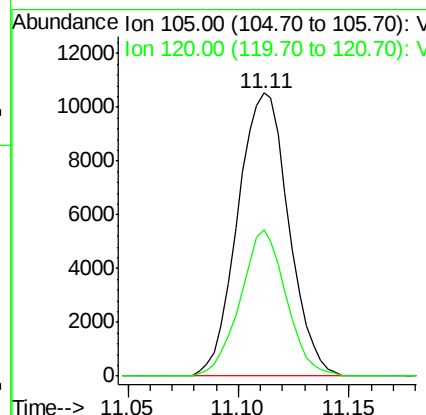
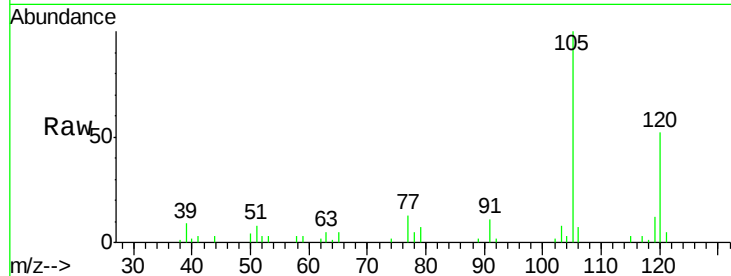
#62
 1,3,5-Trimethylbenzene
 Concen: 2.540 ug/L
 RT: 11.11 min Scan# 3039
 Delta R.T. -0.00 min
 Lab File: VU036709.D
 Acq: 10 Feb 2020 13:36

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion:105 Resp: 16887
 Ion Ratio Lower Upper
 105 100
 120 46.7 37.1 55.7

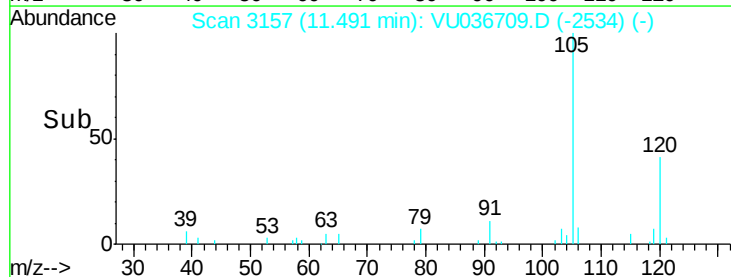
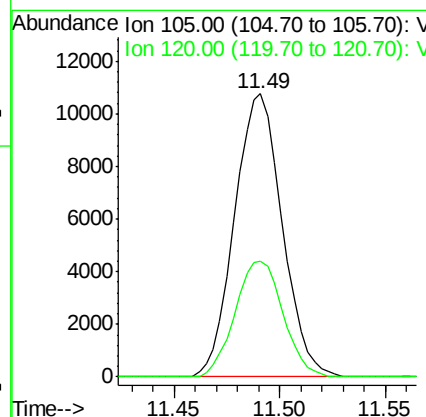
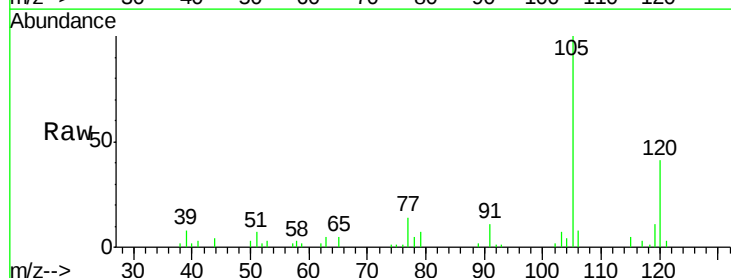
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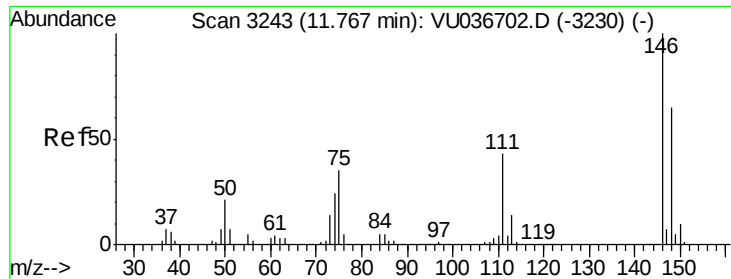
MMDadoda
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#63
 1,2,4-Trimethylbenzene
 Concen: 2.545 ug/L
 RT: 11.49 min Scan# 3157
 Delta R.T. 0.00 min
 Lab File: VU036709.D
 Acq: 10 Feb 2020 13:36

Tgt Ion:105 Resp: 16892
 Ion Ratio Lower Upper
 105 100
 120 41.0 34.7 52.1





#64

1,3-Dichlorobenzene

Concen: 2.636 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. -0.00 min

Lab File: VU036709.D

Acq: 10 Feb 2020 13:36

Instrument :

MSVOA_U

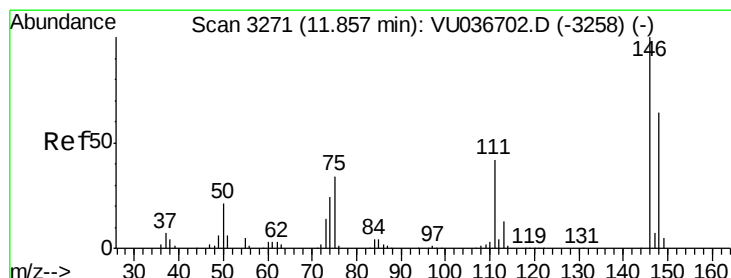
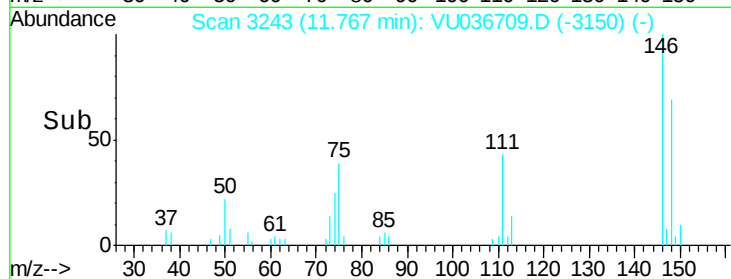
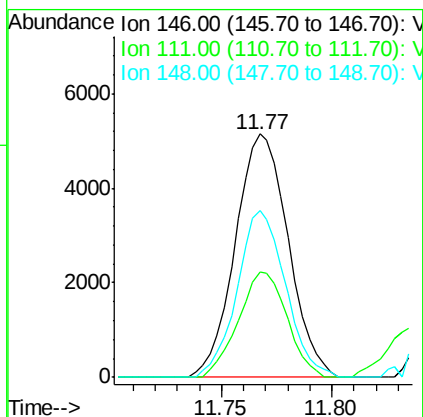
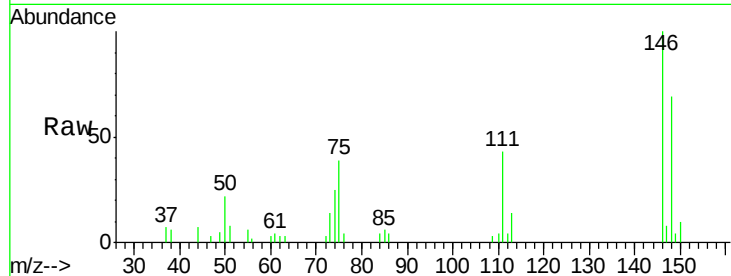
ClientSampled :

MDL04

Tot Ion:	146	Resp:	8594
Ion Ratio	Lower	Upper	
146	100		
111	43.3	30.4	56.4
148	68.7	44.5	82.7

Manual Integrations
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#65

1,4-Dichlorobenzene

Concen: 2.687 ug/L

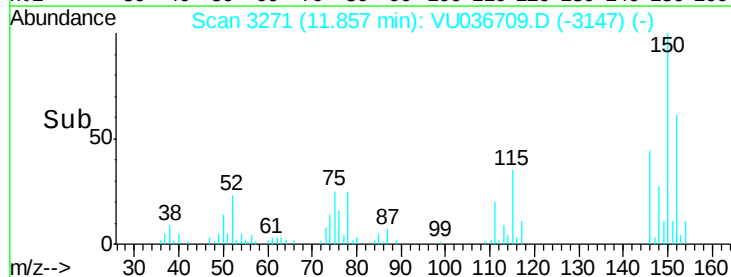
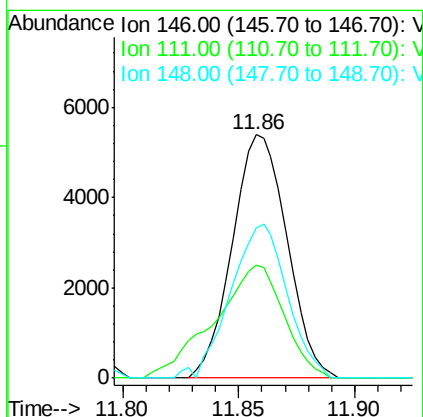
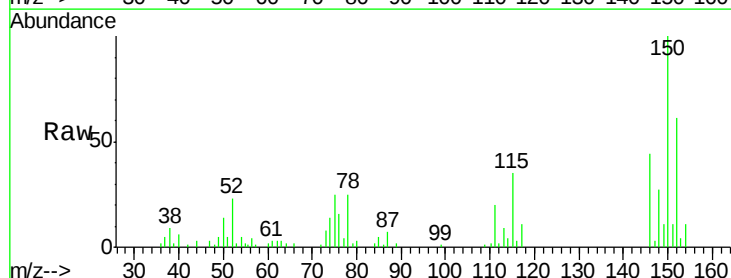
RT: 11.86 min Scan# 3271

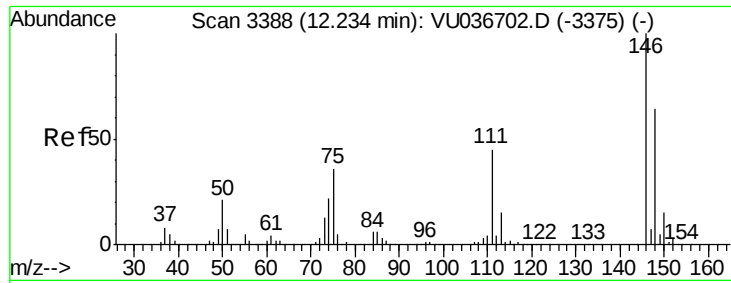
Delta R.T. -0.00 min

Lab File: VU036709.D

Acq: 10 Feb 2020 13:36

Tgt Ion:	146	Resp:	8822
Ion Ratio	Lower	Upper	
146	100		
111	46.6	29.3	54.3
148	61.5	44.8	83.2





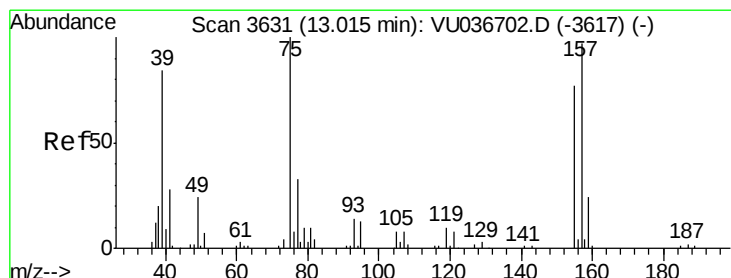
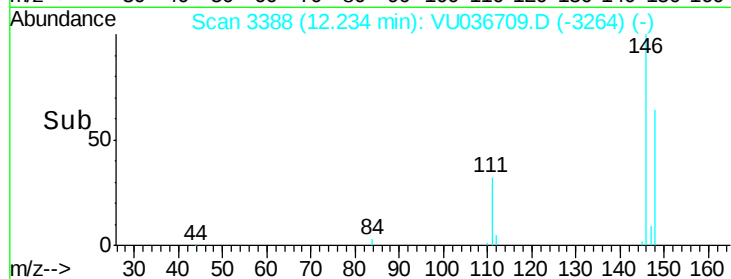
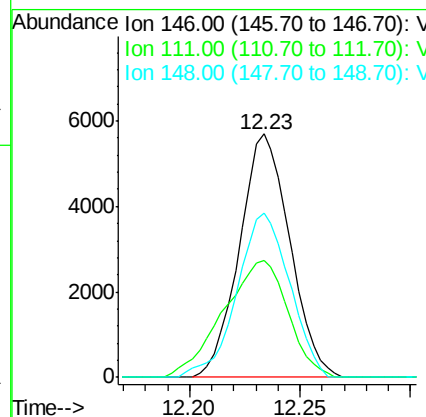
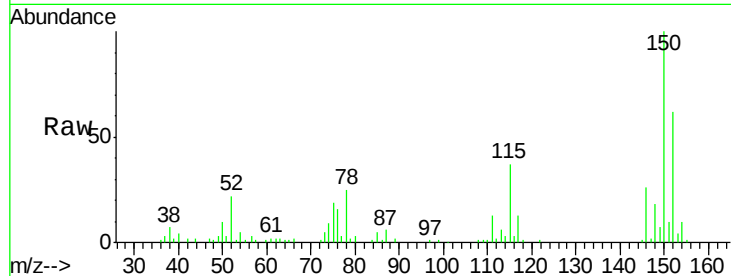
#67
 1,2-Dichlorobenzene
 Concen: 2.747 ug/L
 RT: 12.23 min Scan# 3388
 Delta R.T. -0.00 min
 Lab File: VU036709.D
 Acq: 10 Feb 2020 13:36

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.9	35.4	53.0
148	67.7	50.4	75.6

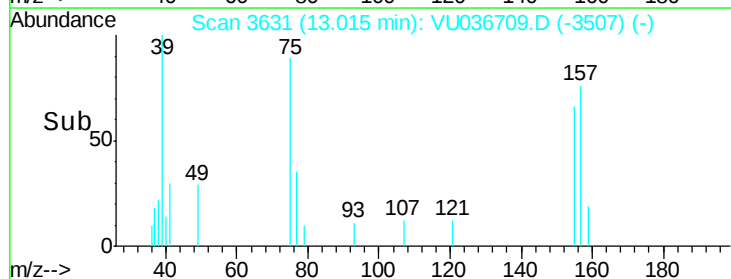
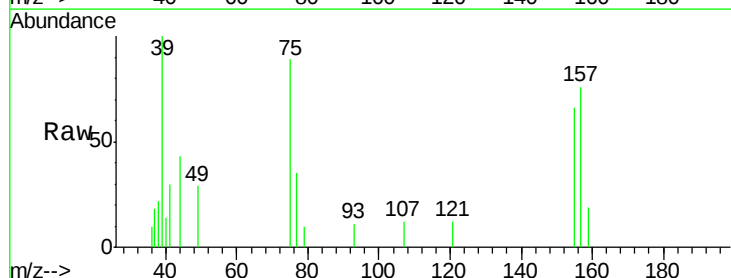
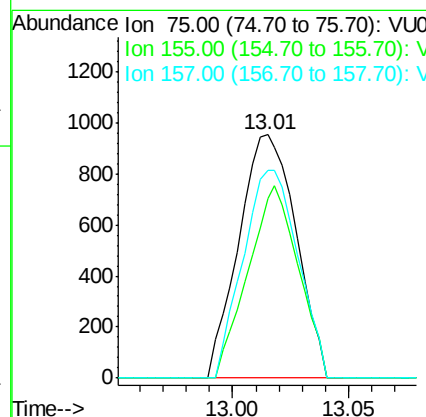
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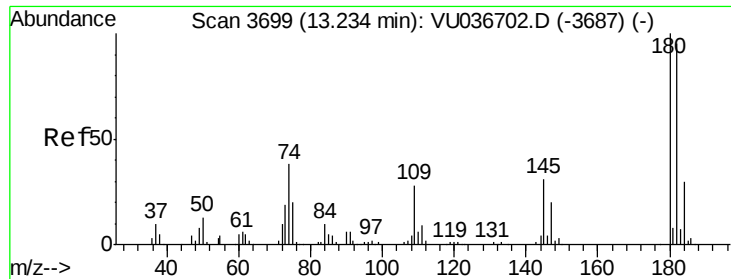
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.329 ug/L
 RT: 13.01 min Scan# 3631
 Delta R.T. -0.00 min
 Lab File: VU036709.D
 Acq: 10 Feb 2020 13:36

Tgt Ion	Ratio	Lower	Upper
75	100		
155	74.0	58.7	88.1
157	85.4	77.8	116.6





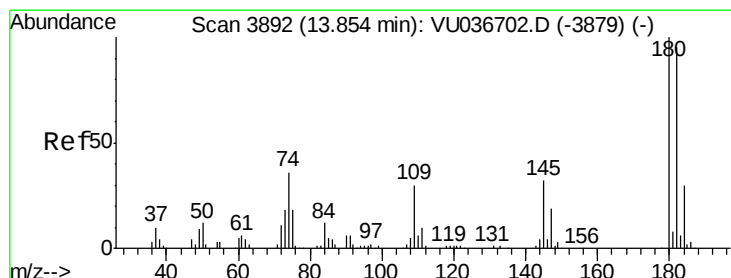
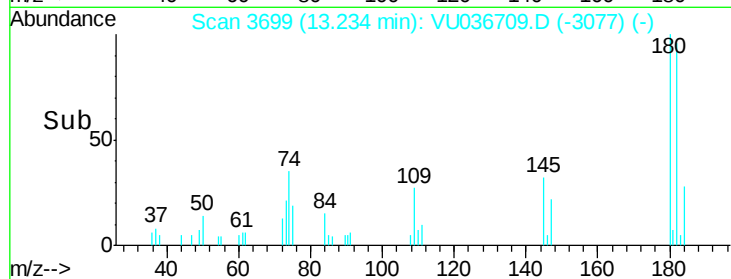
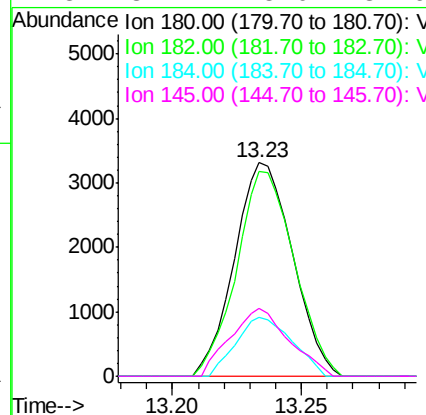
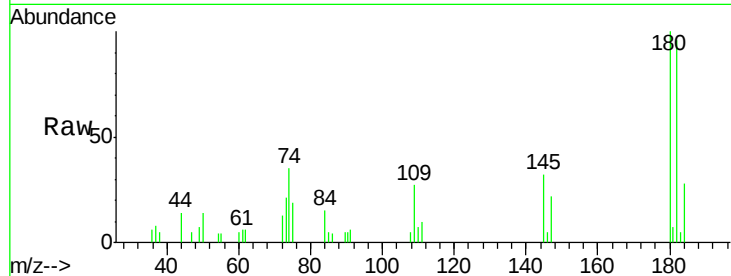
#69
 1,3,5-Trichlorobenzene
 Concen: 2.295 ug/L
 RT: 13.23 min Scan# 3699
 Delta R.T. -0.00 min
 Lab File: VU036709.D
 Acq: 10 Feb 2020 13:36

Instrument :
 MSVOA_U
 ClientSampleID :
 MDL04

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.2	114.4
184	26.6	23.8	35.6
145	32.1	25.0	37.6

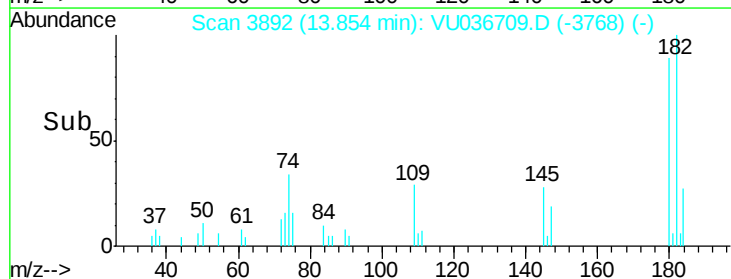
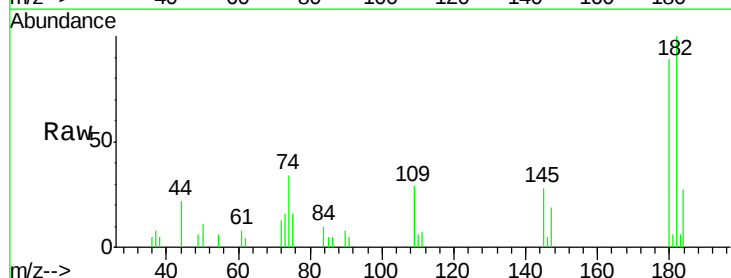
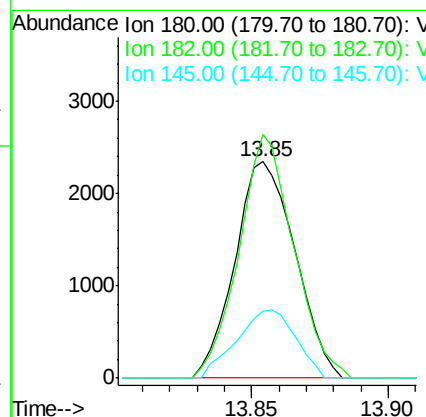
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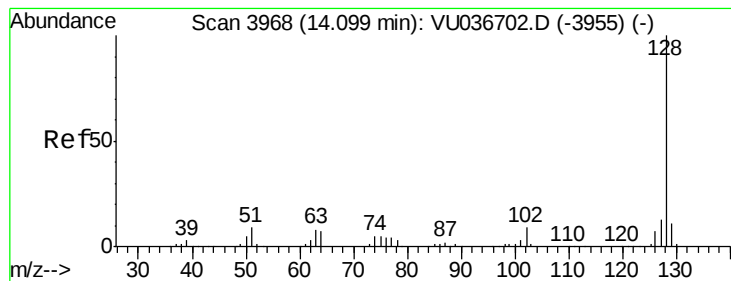
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#70
 1,2,4-trichlorobenzene
 Concen: 1.905 ug/L
 RT: 13.85 min Scan# 3892
 Delta R.T. -0.00 min
 Lab File: VU036709.D
 Acq: 10 Feb 2020 13:36

Tgt Ion	Ratio	Lower	Upper
180	100		
182	102.1	76.1	114.1
145	30.7	25.7	38.5





#71

Naphthalene

Concen: 1.590 ug/L

RT: 14.10 min Scan# 3969

Delta R.T. 0.00 min

Lab File: VU036709.D

Acq: 10 Feb 2020 13:36

Instrument :

MSVOA_U

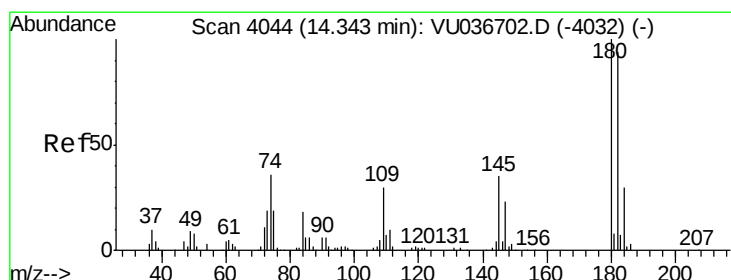
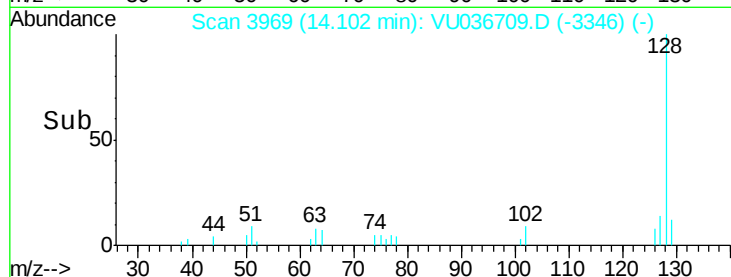
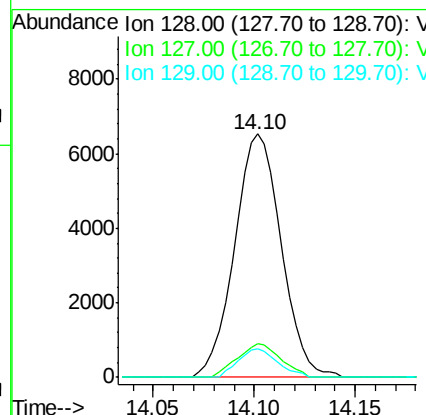
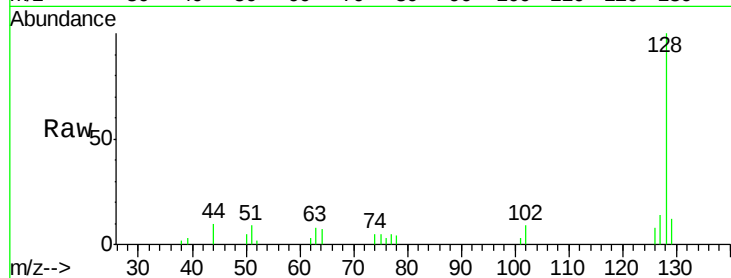
ClientSampleId :

MDL04

Tot Ion:	128	Resp:	10567
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.6	16.0
129	10.0	8.5	12.7

Manual Integrations
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#72

1,2,3-Trichlorobenzene

Concen: 2.009 ug/L

RT: 14.34 min Scan# 4044

Delta R.T. -0.00 min

Lab File: VU036709.D

Acq: 10 Feb 2020 13:36

Tgt Ion:	180	Resp:	3774
Ion Ratio	Lower	Upper	
180	100		
182	83.7	76.8	115.2
145	33.0	27.5	41.3

