

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072320\
 Data File : VU039644.D
 Acq On : 23 Jul 2020 18:41
 Operator : SY/MD
 Sample : MDL05
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Manual Integrations
 APPROVED

sam
 7/30/2020 2:58:20 AM

Quant Time: Jul 24 03:13:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jul 24 02:44:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.27	114	216202	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	203181	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	94681	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	54561	38.76	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	77.52%
7) Chloroethane-d5	1.92	69	64709	38.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	76.72%
11) 1,1-Dichloroethene-d2	2.58	63	90344	30.32	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	60.64%
21) 2-Butanone-d5	4.65	46	136376	83.93	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	83.93%
24) Chloroform-d	5.09	84	124803	39.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	78.86%
26) 1,2-Dichloroethane-d4	5.72	65	89670	39.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	79.28%
32) Benzene-d6	5.75	84	239608	42.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.94%
36) 1,2-Dichloropropane-d6	6.70	67	78241	42.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	84.58%
41) Toluene-d8	7.91	98	220229	41.48	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	82.96%
43) trans-1,3-Dichloropropene-	8.19	79	37606	40.27	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	80.54%
47) 2-Hexanone-d5	8.64	63	85052	84.28	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	84.28%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	116033	39.60	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	79.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	88369	42.68	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.36%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	2749	1.867 ug/L	97
3) Chloromethane	1.53	50	3156	2.062 ug/L	87
5) Vinyl chloride	1.61	62	3260	2.097 ug/L #	66
6) Bromomethane	1.87	94	2424	2.075 ug/L	90
8) Chloroethane	1.94	64	2622	1.896 ug/L	98
9) Trichlorofluoromethane	2.15	101	5578	2.030 ug/L	94
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	2967	2.243 ug/L	93
12) 1,1-Dichloroethene	2.59	96	2867	2.325 ug/L #	1
13) Acetone	2.65	43	4146m	3.834 ug/L	
14) Carbon disulfide	2.81	76	7714	1.955 ug/L	100
15) Methyl Acetate	2.97	43	3817	1.970 ug/L #	88
16) Methylene chloride	3.06	84	2976	2.015 ug/L	90
17) trans-1,2-Dichloroethene	3.38	96	2713	1.977 ug/L	75
18) Methyl tert-butyl Ether	3.38	73	8145	1.837 ug/L	98
19) 1,1-Dichloroethane	3.89	63	5224	1.951 ug/L	90
20) cis-1,2-Dichloroethene	4.69	96	3062	1.952 ug/L	72
22) 2-Butanone	4.74	43	6271	4.115 ug/L	81

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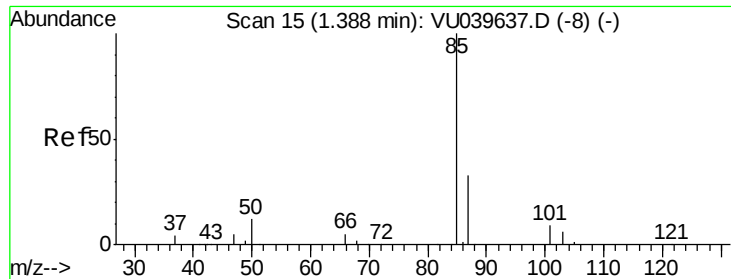
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072320WMA.M
 Quant Title : VOC Analysis
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.00	128	1662	2.108	ug/L	82
25) Chloroform	5.11	83	9725	3.274	ug/L	95
27) 1,2-Dichloroethane	5.81	62	5132	2.083	ug/L	96
29) Cyclohexane	5.41	56	4351	1.971	ug/L #	87
30) 1,1,1-Trichloroethane	5.34	97	4725	1.943	ug/L	96
31) Carbon tetrachloride	5.55	117	4082	2.023	ug/L	93
33) Benzene	5.79	78	11811	2.109	ug/L	100
34) Trichloroethene	6.56	95	3017	2.037	ug/L #	88
35) Methylcyclohexane	6.77	83	4527	1.977	ug/L	94
37) 1,2-Dichloropropane	6.80	63	2907	1.917	ug/L #	89
38) Bromodichloromethane	7.12	83	4186	2.079	ug/L #	94
39) cis-1,3-Dichloropropene	7.62	75	4479	1.977	ug/L	97
40) 4-Methyl-2-pentanone	7.80	43	9829	3.721	ug/L	99
42) Toluene	7.98	91	12647	2.054	ug/L	100
44) trans-1,3-Dichloropropene	8.22	75	4026	1.814	ug/L	91
45) 1,1,2-Trichloroethane	8.41	97	2628	1.818	ug/L #	88
46) Tetrachloroethene	8.56	164	2185	1.950	ug/L	90
48) 2-Hexanone	8.69	43	12035	5.592	ug/L	97
49) Dibromochloromethane	8.82	129	3058	1.873	ug/L	99
50) 1,2-Dibromoethane	8.93	107	3202	1.991	ug/L #	95
51) Chlorobenzene	9.45	112	7494	1.907	ug/L #	86
52) Ethylbenzene	9.57	91	12481	1.834	ug/L	96
53) m,p-Xylene	9.70	106	4881	1.903	ug/L	85
54) o-xylene	10.10	106	4305	1.749	ug/L	93
55) Styrene	10.12	104	6651	1.561	ug/L	84
56) Isopropylbenzene	10.48	105	11823	1.769	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	5248	1.992	ug/L #	91
59) 1,2,3-Trichloropropane	10.82	75	4138	1.881	ug/L	100
61) Bromoform	10.29	173	1909	1.705	ug/L #	84
62) 1,3-Dichlorobenzene	11.74	146	5910	2.038	ug/L	91
63) 1,4-Dichlorobenzene	11.84	146	5872	2.021	ug/L	94
65) 1,2-Dichlorobenzene	12.21	146	6168	2.105	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.99	75	1145	1.953	ug/L #	74
67) 1,3,5-Trichlorobenzene	13.21	180	3819	1.826	ug/L	95
68) 1,2,4-trichlorobenzene	13.84	180	3199	1.802	ug/L	97
69) Naphthalene	14.08	128	8560	1.608	ug/L	100
70) 1,2,3-Trichlorobenzene	14.32	180	3224	1.798	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 1.867 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 18:41

Instrument :

MSVOA_U

ClientSampleId :

MDL05

Tot Ion: 85 Resp: 2749

Ion Ratio Lower Upper

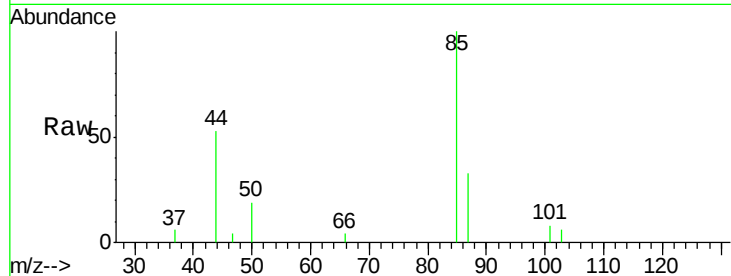
85 100

87 31.3 26.2 39.4

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Abundance Ion 85.00 (84.70 to 85.70): VU039637.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VU039637.D (-8) (-)

1.39

2500

2000

1500

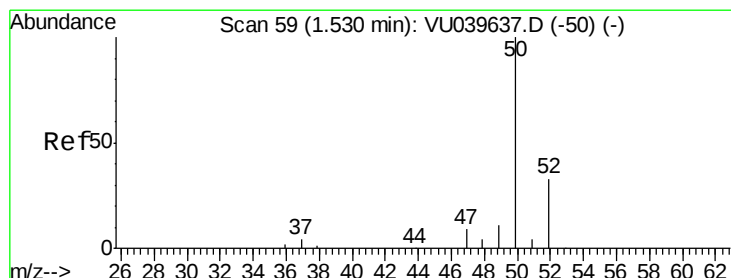
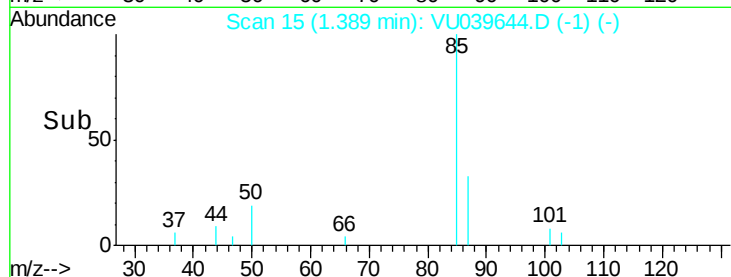
1000

500

0

1.36 1.38 1.40 1.42

Time-->



#3

Chloromethane

Concen: 2.062 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU039644.D

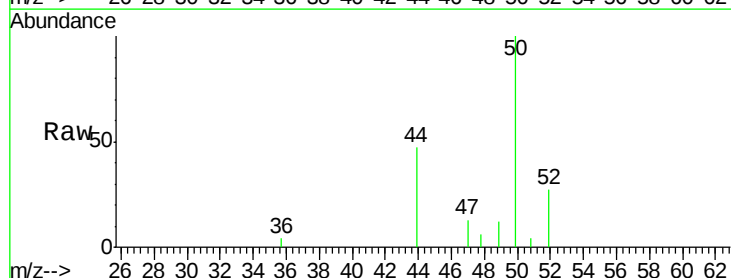
Acq: 23 Jul 2020 18:41

Tgt Ion: 50 Resp: 3156

Ion Ratio Lower Upper

50 100

52 26.7 24.0 44.6



Abundance Ion 50.00 (49.70 to 50.70): VU039637.D (-50) (-)

Ion 52.00 (51.70 to 52.70): VU039637.D (-50) (-)

1.53

3000

2500

2000

1500

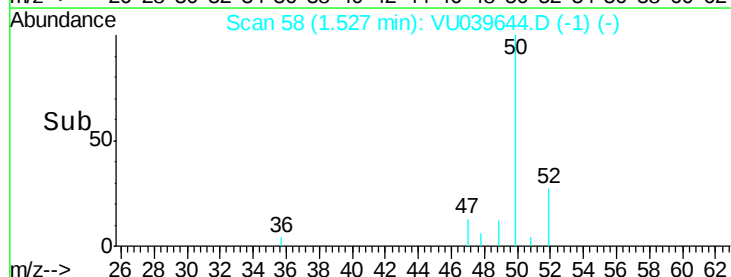
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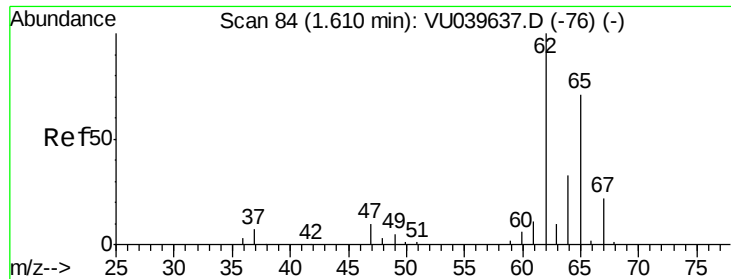
500

0

1.50 1.52 1.54 1.56

Time-->





#5

Vinyl chloride

Concen: 2.097 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 18:41

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion: 62 Resp: 3260

Ion Ratio Lower Upper

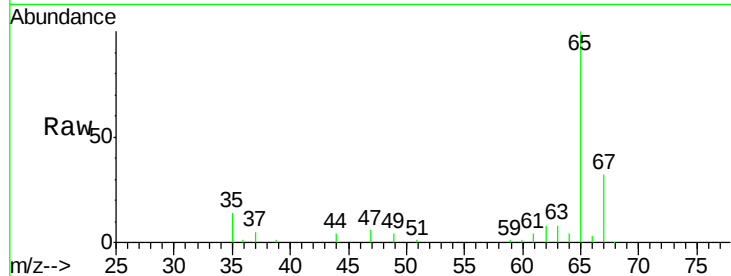
62 100

64 51.7 22.8 42.4#

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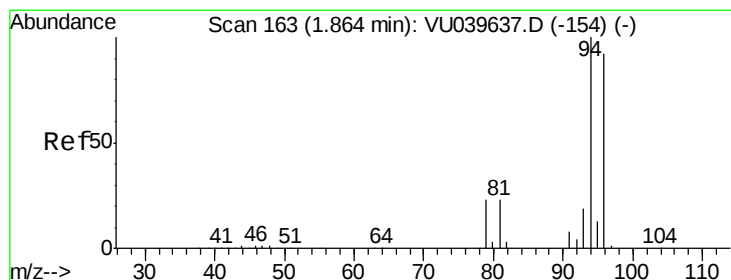
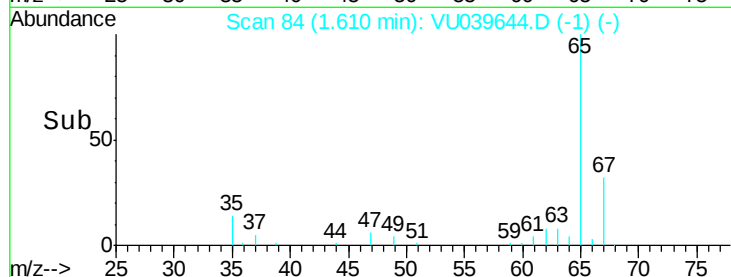
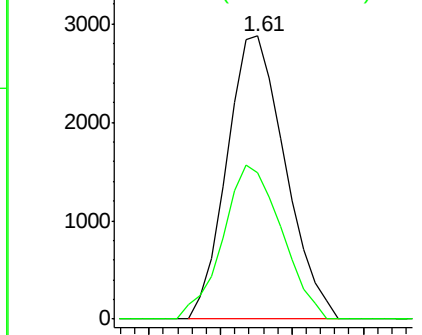
sam

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Abundance Ion 62.00 (61.70 to 62.70): VU039637.D (-76) (-)

Ion 64.00 (63.70 to 64.70): VU039637.D (-76) (-)



#6

Bromomethane

Concen: 2.075 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU039644.D

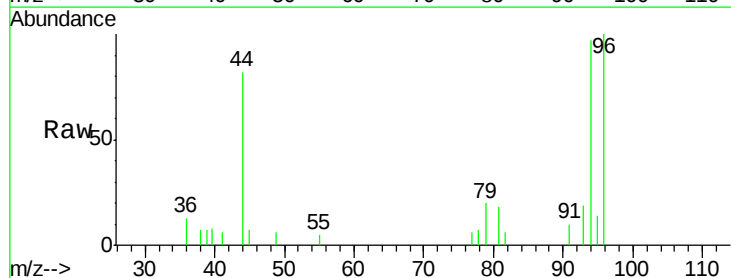
Acq: 23 Jul 2020 18:41

Tgt Ion: 94 Resp: 2424

Ion Ratio Lower Upper

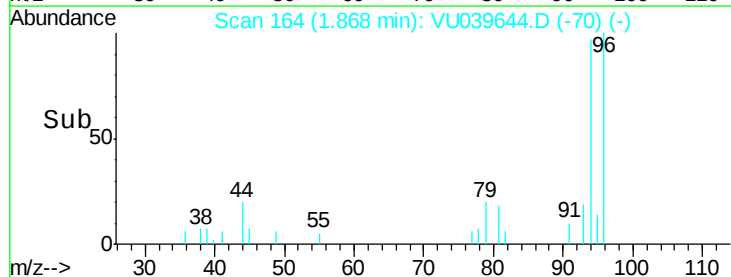
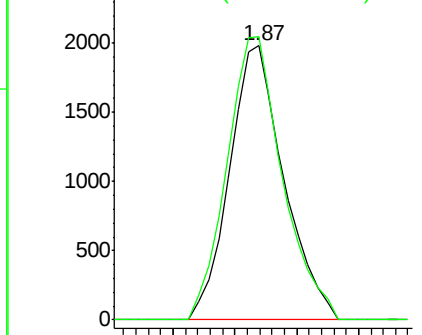
94 100

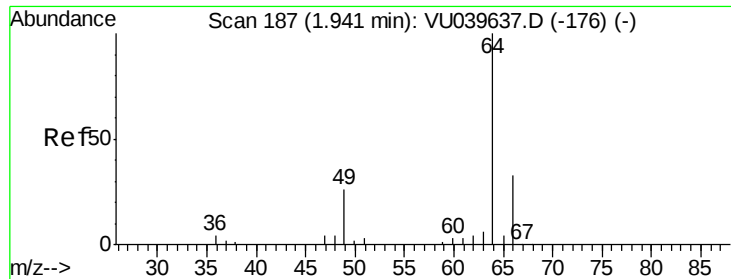
96 103.2 65.7 122.1



Abundance Ion 94.00 (93.70 to 94.70): VU039637.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU039637.D (-154) (-)





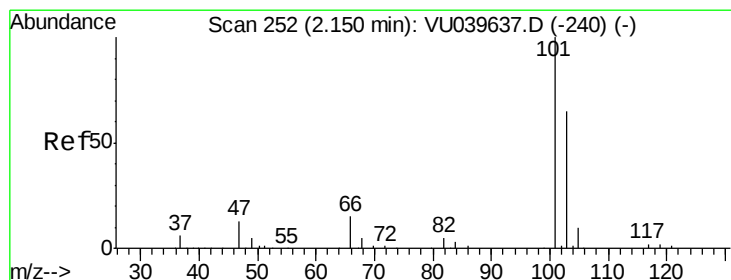
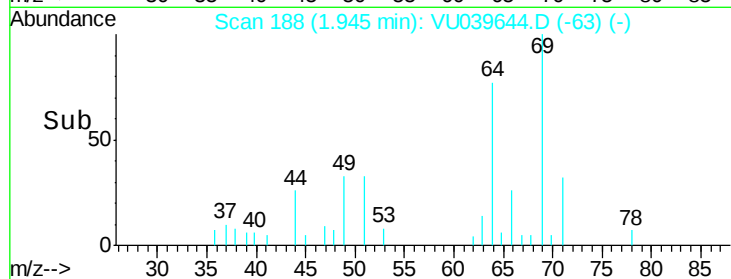
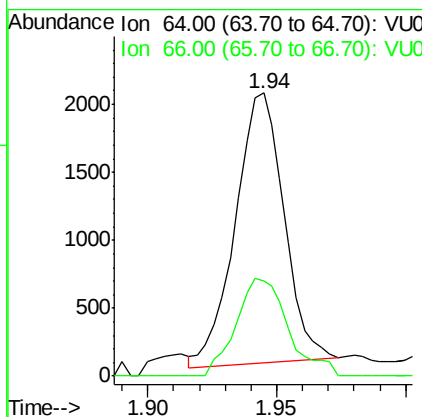
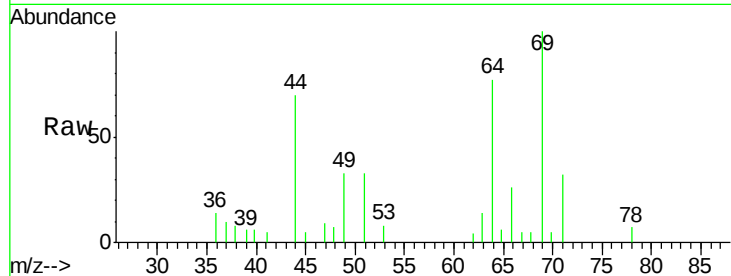
#8
Chloroethane
Concen: 1.896 ug/L
RT: 1.94 min Scan# 188
Delta R.T. 0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 18:41

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion: 64 Resp: 2622
Ion Ratio Lower Upper
64 100
66 33.6 22.7 42.1

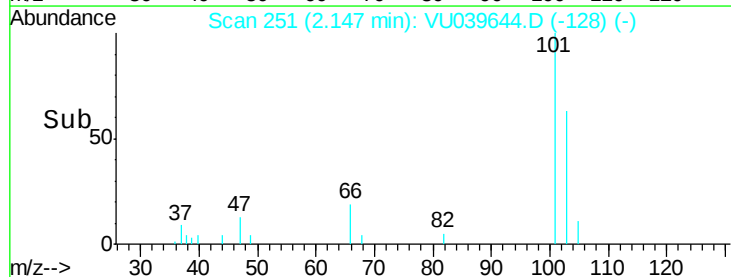
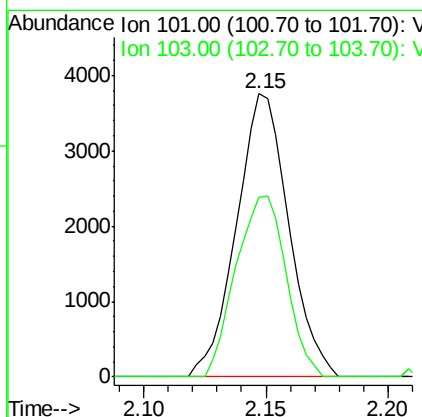
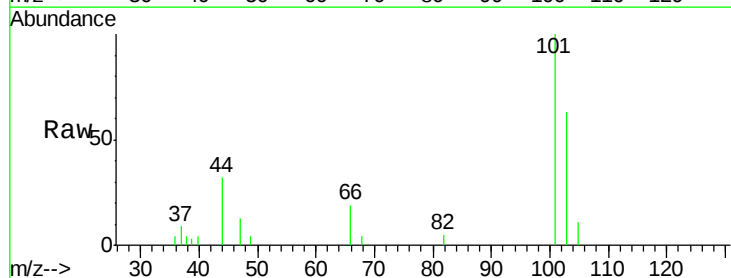
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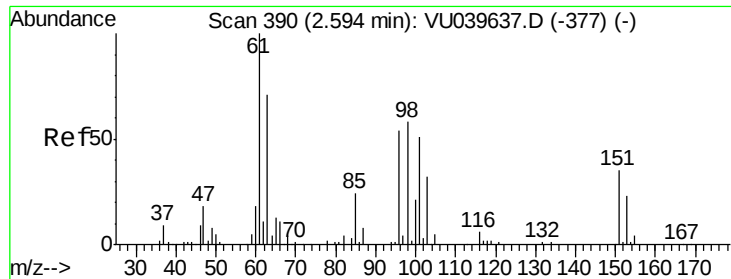
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#9
Trichlorofluoromethane
Concen: 2.030 ug/L
RT: 2.15 min Scan# 251
Delta R.T. -0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 18:41

Tgt Ion: 101 Resp: 5578
Ion Ratio Lower Upper
101 100
103 61.3 52.8 79.2





#10

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

Concen: 2.243 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 18:41

Instrument :

MSVOA_U

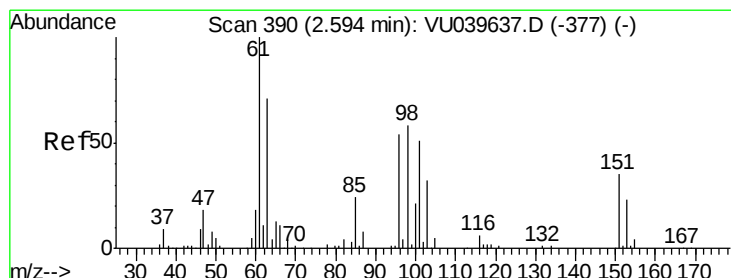
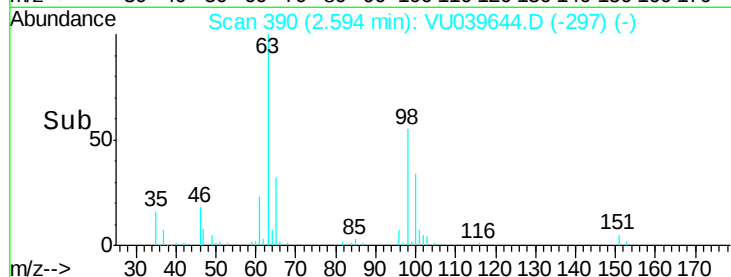
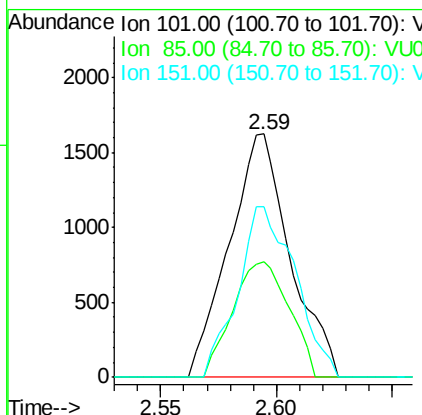
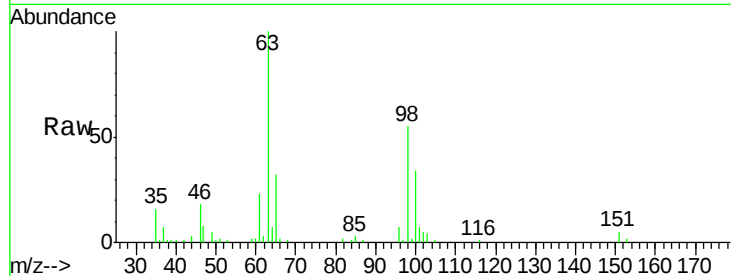
ClientSampleId :

MDL05

Tot Ion:	101	Resp:	2967
Ion Ratio	Lower	Upper	
101	100		
85	44.1	39.7	59.5
151	65.9	57.4	86.2

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#12

1,1-Dichloroethene

Concen: 2.325 ug/L

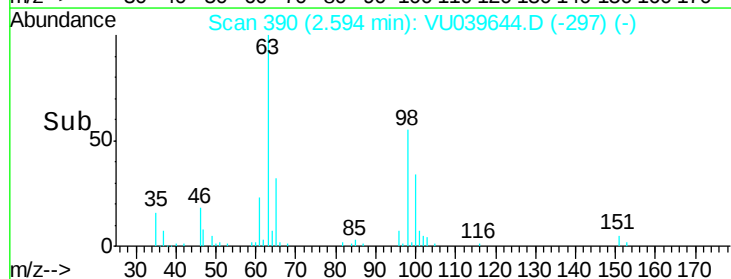
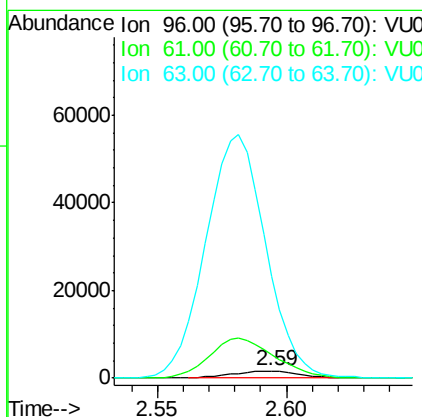
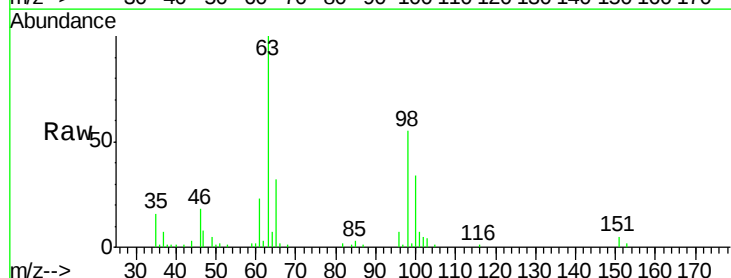
RT: 2.59 min Scan# 390

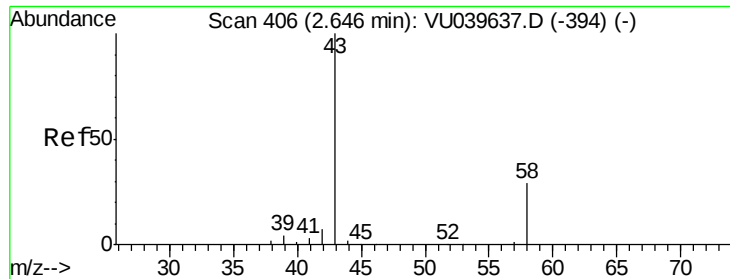
Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 18:41

Tgt Ion:	96	Resp:	2867
Ion Ratio	Lower	Upper	
96	100		
61	319.6	136.6	253.6#
63	1368.7	97.2	180.6#





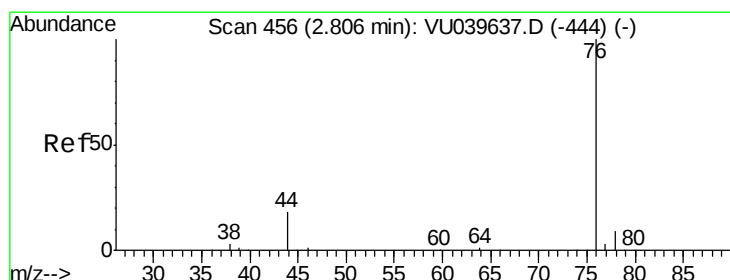
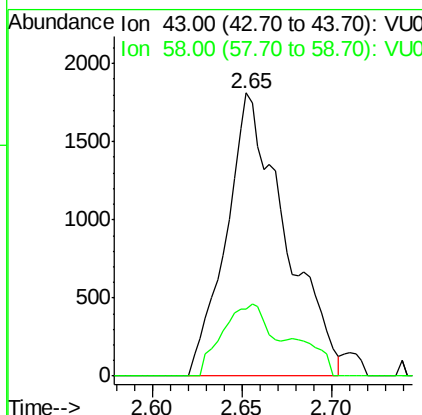
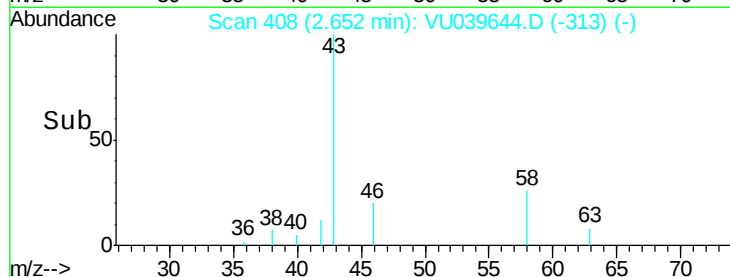
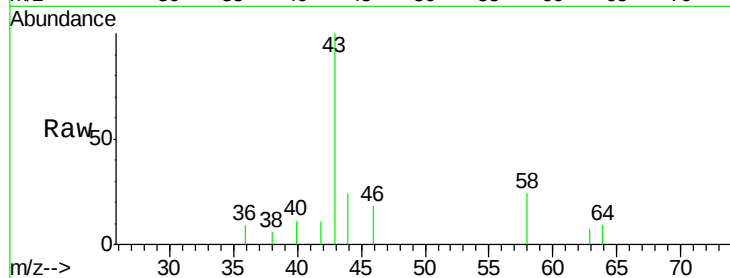
#13
Acetone
Concen: 3.834 ug/L m
RT: 2.65 min Scan# 408
Delta R.T. 0.01 min
Lab File: VU039644.D
Acq: 23 Jul 2020 18:41

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion: 43 Resp: 4146
Ion Ratio Lower Upper
43 100
58 20.7 0.0 59.4

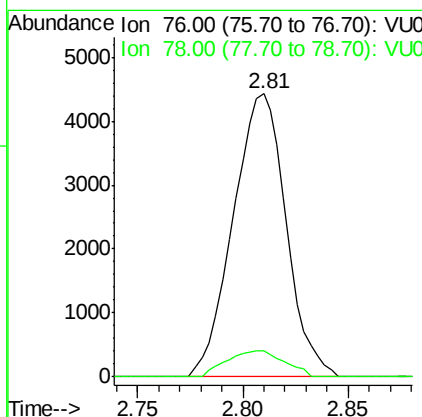
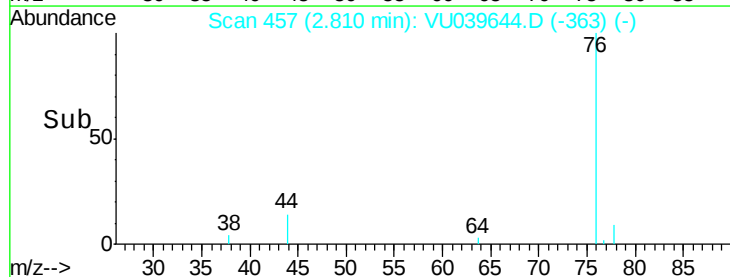
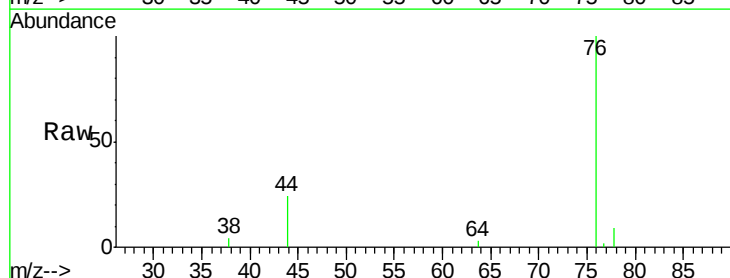
Manual Integrations
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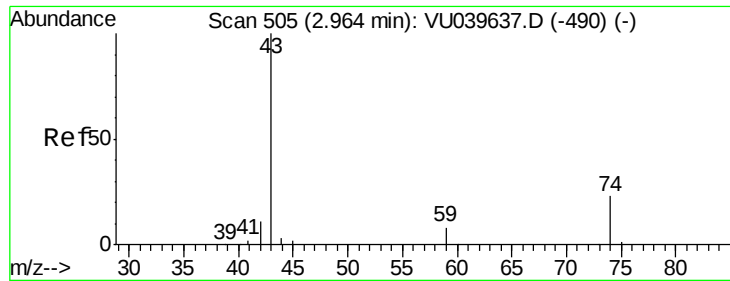
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#14
Carbon disulfide
Concen: 1.955 ug/L
RT: 2.81 min Scan# 457
Delta R.T. 0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 18:41

Tgt Ion: 76 Resp: 7714
Ion Ratio Lower Upper
76 100
78 9.1 7.3 10.9





#15

Methyl Acetate

Concen: 1.970 ug/L

RT: 2.97 min Scan# 506

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 18:41

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion: 43 Resp: 3817

Ion Ratio Lower Upper

43 100

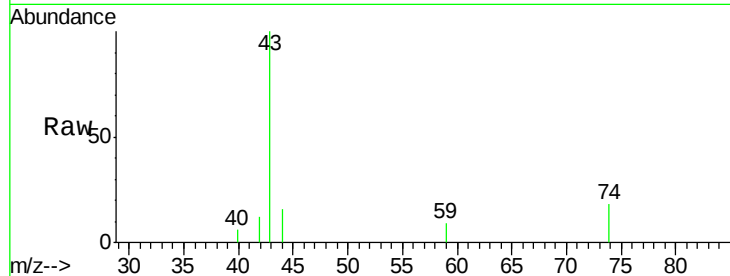
74 16.1 17.4 26.0#

Manual Integrations

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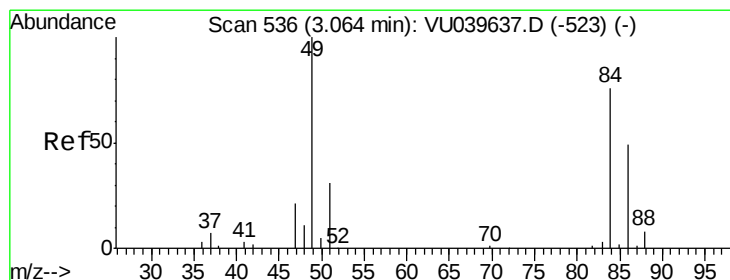
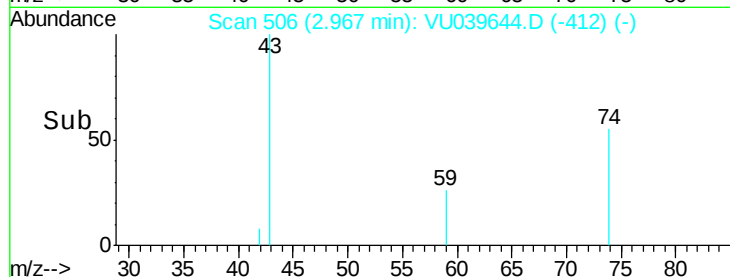
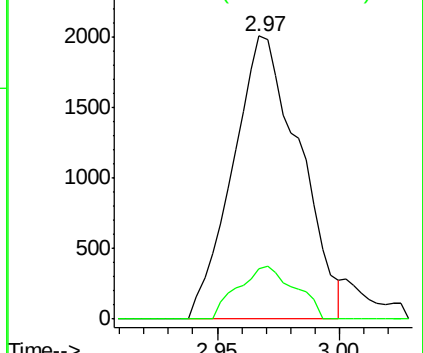
sam

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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 2.015 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 18:41

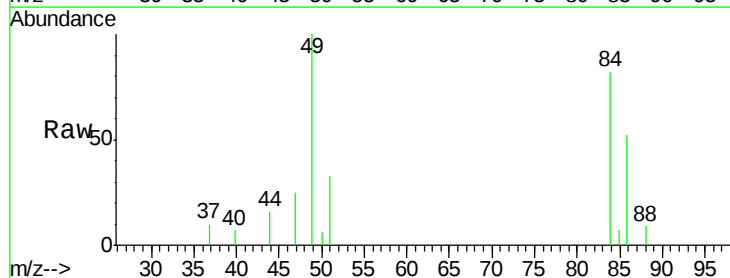
Tgt Ion: 84 Resp: 2976

Ion Ratio Lower Upper

84 100

86 63.8 46.2 85.8

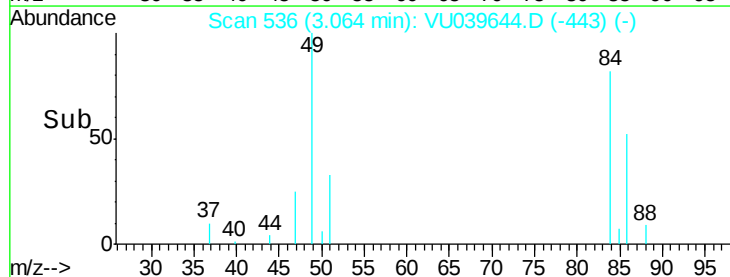
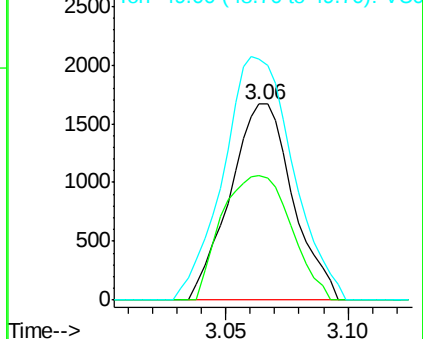
49 122.7 97.3 180.7

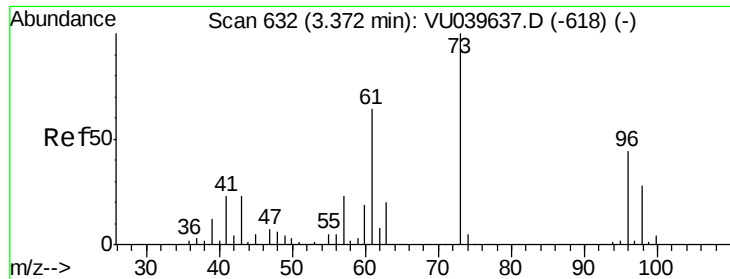


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





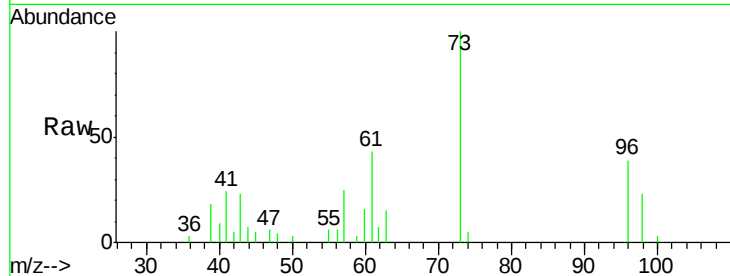
#17
trans-1,2-Dichloroethene
Concen: 1.977 ug/L
RT: 3.38 min Scan# 634
Delta R.T. 0.01 min
Lab File: VU039644.D
Acq: 23 Jul 2020 18:41

Instrument :
MSVOA_U
ClientSampled :
MDL05

Tot Ion	Ion	Ratio	Lower	Upper
96	100			
61	110.0	106.7	198.1	
98	59.8	44.3	82.3	

Manual Integrations
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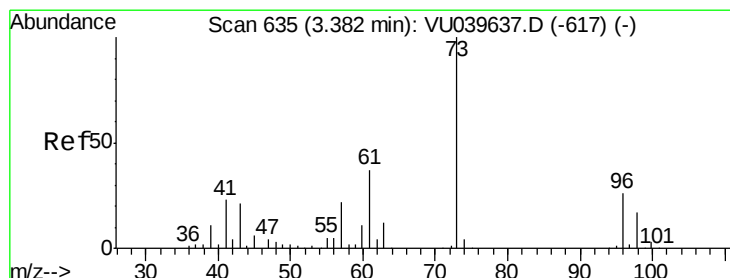
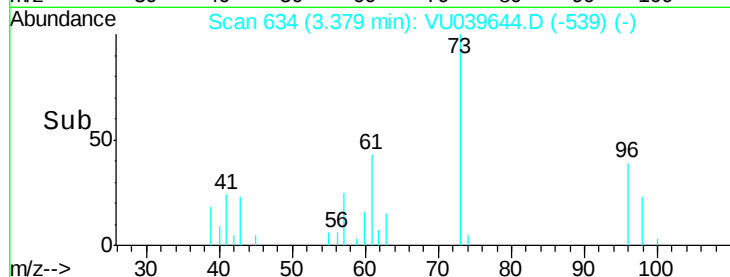
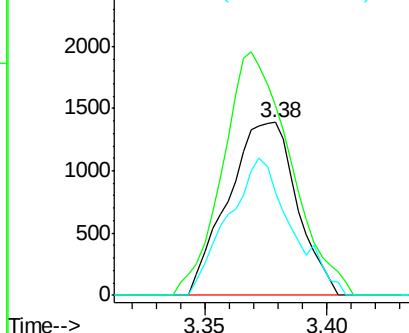


Abundance

Ion 96.00 (95.70 to 96.70): VU039644.D (-539) (-)

Ion 61.00 (60.70 to 61.70): VU039644.D (-539) (-)

Ion 98.00 (97.70 to 98.70): VU039644.D (-539) (-)



#18
Methyl tert-butyl Ether
Concen: 1.837 ug/L
RT: 3.38 min Scan# 634
Delta R.T. -0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 18:41

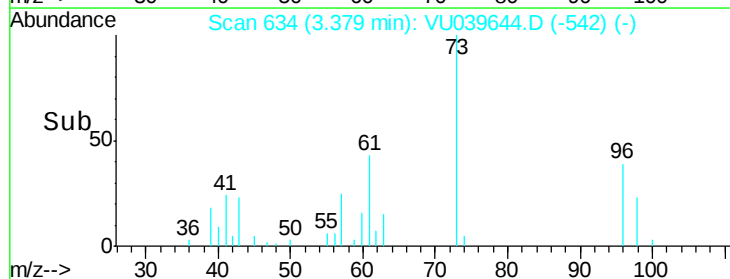
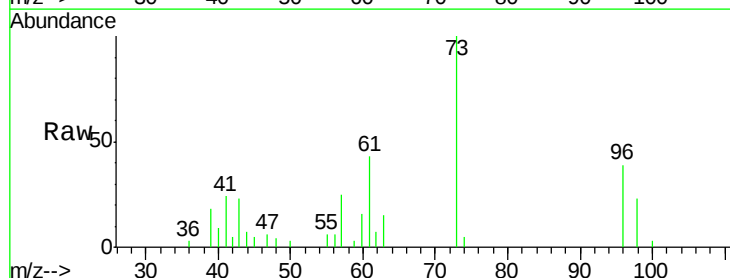
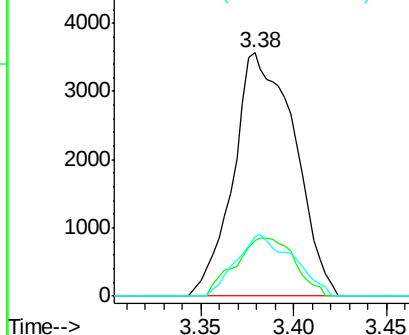
Tgt Ion	Ion	Ratio	Lower	Upper
73	100			
43	23.2	18.2	27.2	
57	23.6	17.4	26.2	

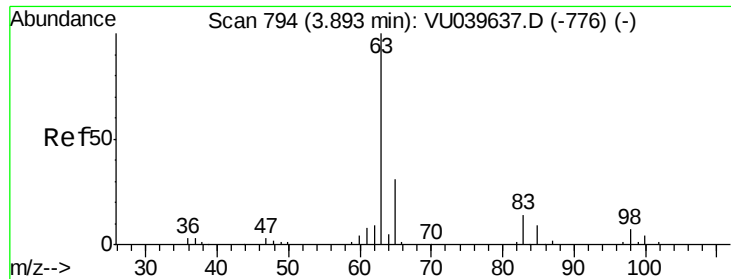
Abundance

Ion 73.00 (72.70 to 73.70): VU039644.D (-542) (-)

Ion 43.00 (42.70 to 43.70): VU039644.D (-542) (-)

Ion 57.00 (56.70 to 57.70): VU039644.D (-542) (-)





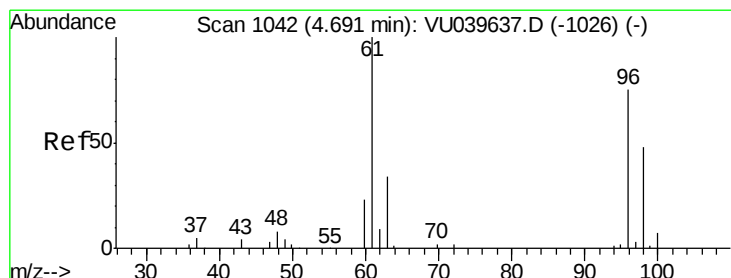
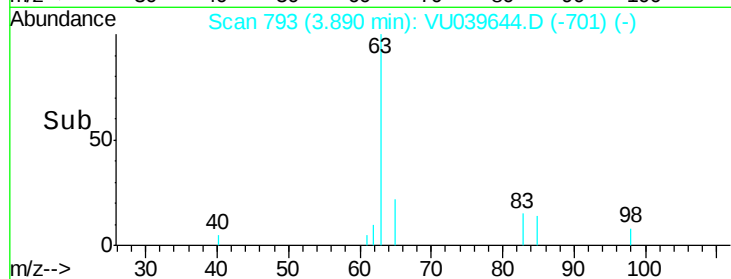
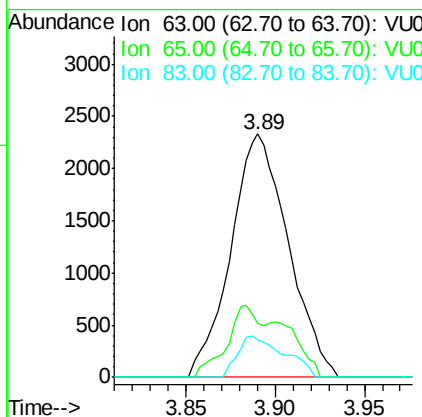
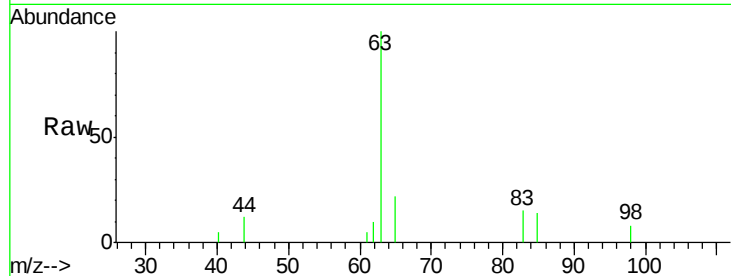
#19
 1,1-Dichloroethane
 Concen: 1.951 ug/L
 RT: 3.89 min Scan# 793
 Delta R.T. -0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 18:41

Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

Tot Ion	Ratio	Lower	Upper
63	100		
65	22.3	20.4	38.0
83	15.3	9.7	18.1

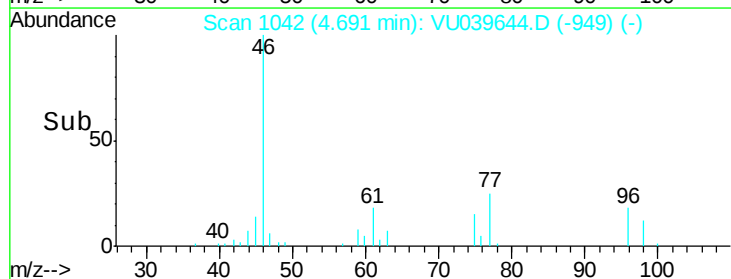
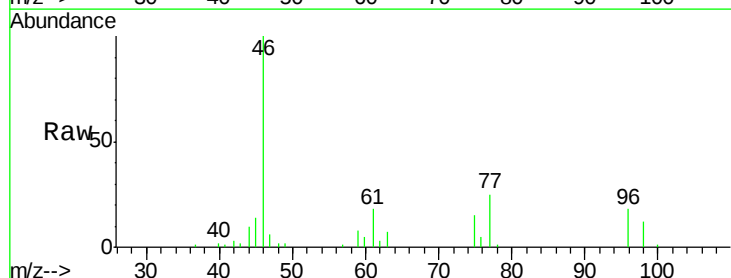
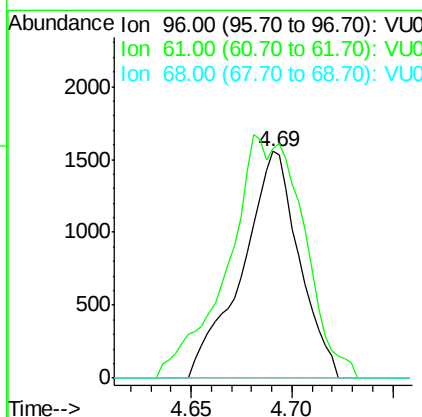
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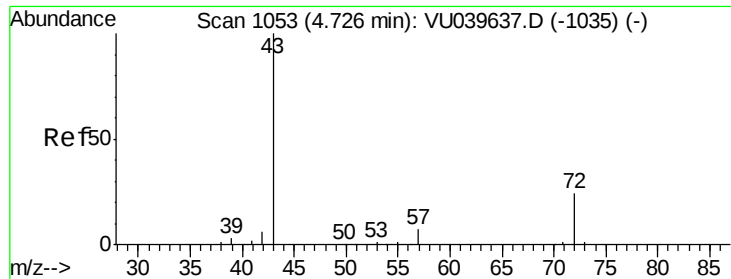
sam
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#20
 cis-1,2-Dichloroethene
 Concen: 1.952 ug/L
 RT: 4.69 min Scan# 1042
 Delta R.T. 0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 18:41

Tgt Ion	Ratio	Lower	Upper
96	100		
61	101.1	94.0	174.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.115 ug/L

RT: 4.74 min Scan# 1056

Delta R.T. 0.01 min

Lab File: VU039644.D

Acq: 23 Jul 2020 18:41

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion: 43 Resp: 6271

Ion Ratio Lower Upper

43 100

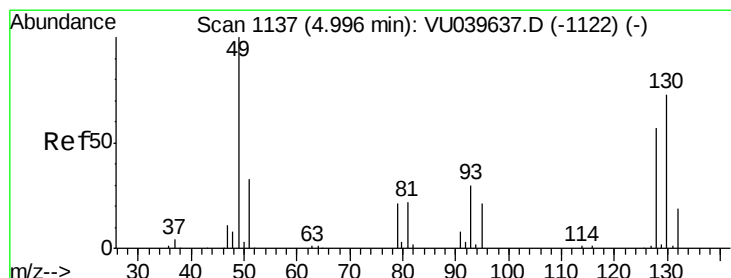
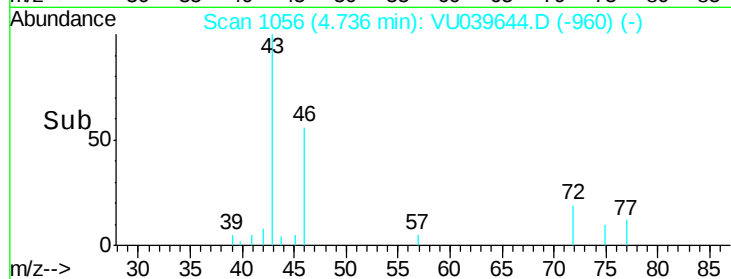
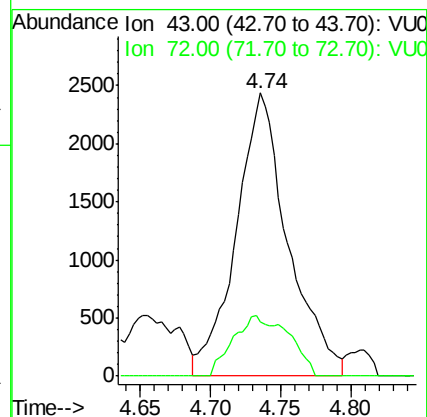
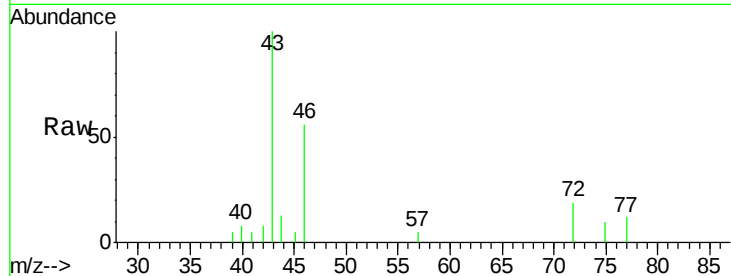
72 15.7 12.8 38.3

Manual Integrations

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#23

Bromochloromethane

Concen: 2.108 ug/L

RT: 5.00 min Scan# 1137

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 18:41

Tgt Ion: 128 Resp: 1662

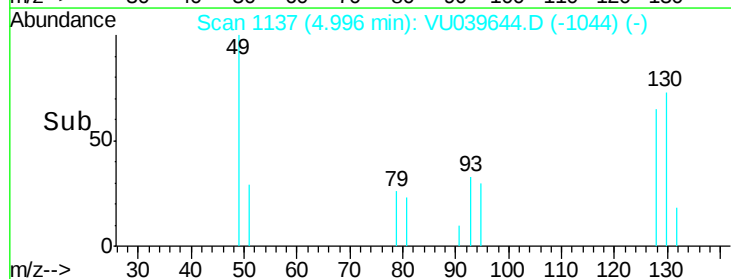
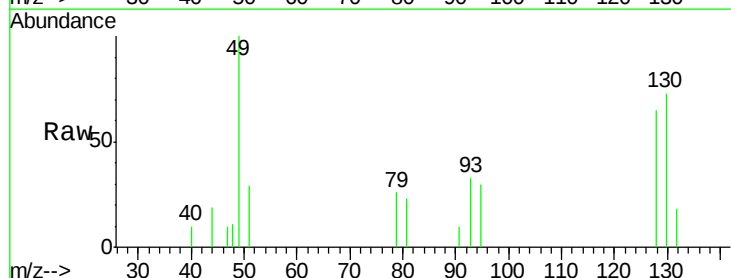
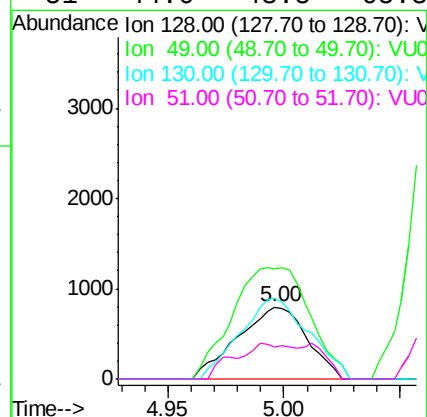
Ion Ratio Lower Upper

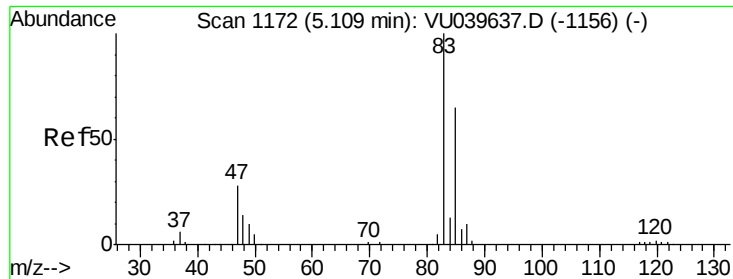
128 100

49 153.4 124.5 231.3

130 112.2 94.4 175.2

51 44.0 43.5 65.3





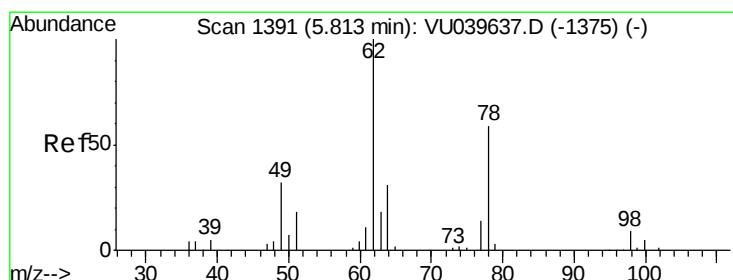
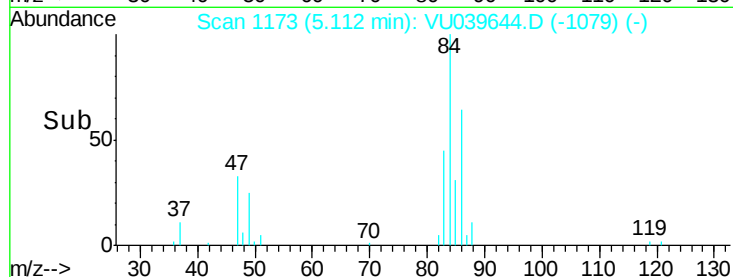
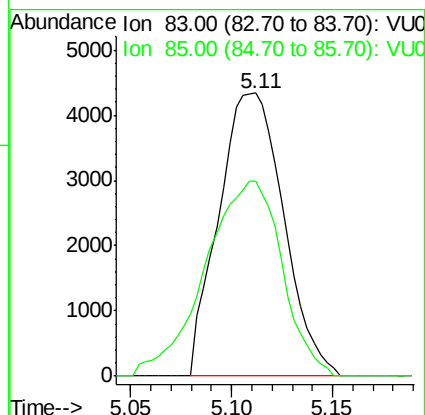
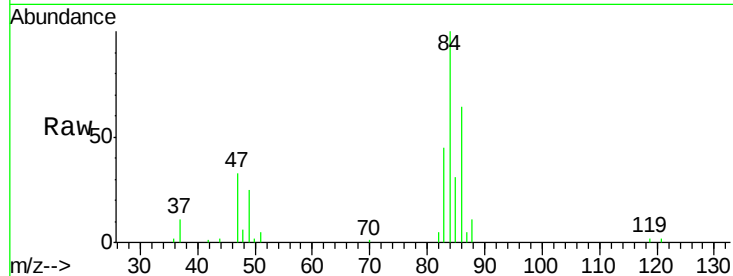
#25
Chloroform
Concen: 3.274 ug/L
RT: 5.11 min Scan# 1173
Delta R.T. 0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 18:41

Instrument :
MSVOA_U
ClientSampled :
MDL05

Tot Ion: 83 Resp: 9725
Ion Ratio Lower Upper
83 100
85 69.1 45.6 84.6

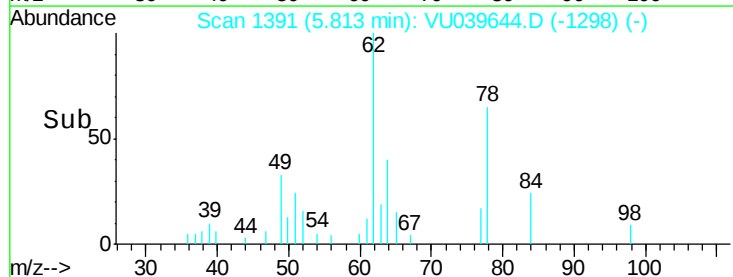
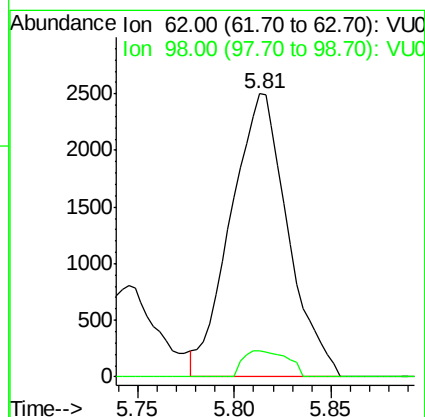
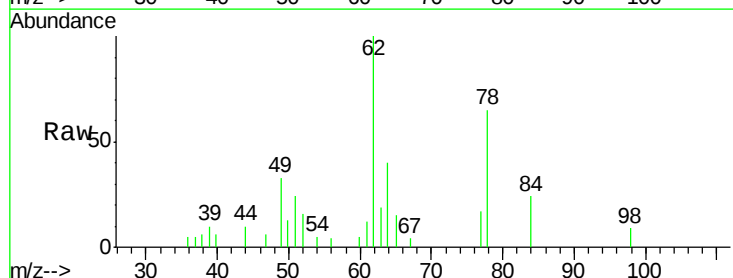
Manual Integrations
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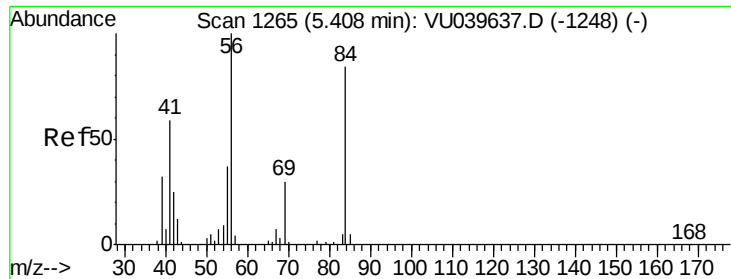
sam
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#27
1,2-Dichloroethane
Concen: 2.083 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 18:41

Tgt Ion: 62 Resp: 5132
Ion Ratio Lower Upper
62 100
98 9.4 6.4 9.6





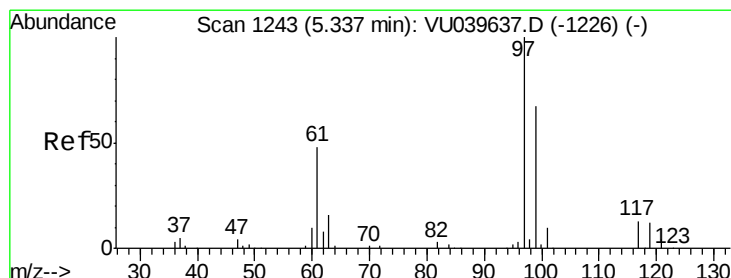
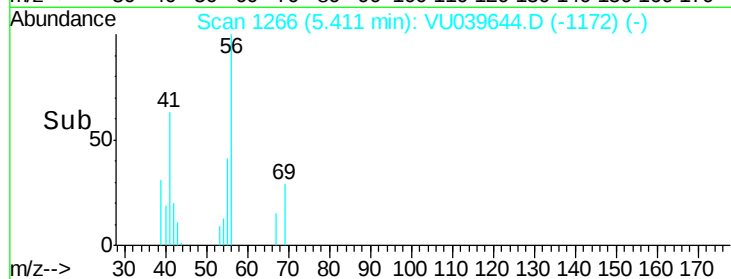
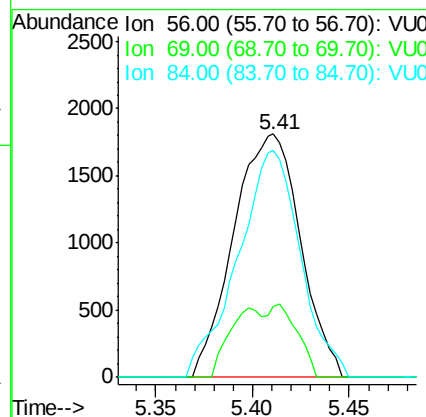
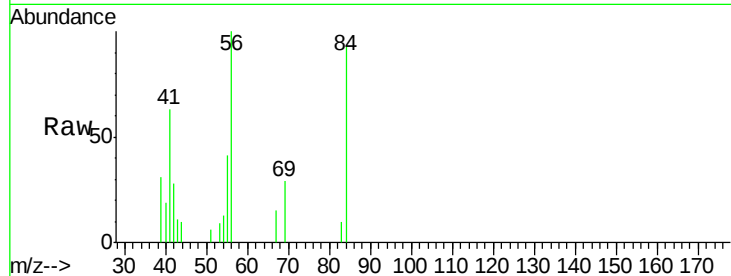
#29
Cyclohexane
Concen: 1.971 ug/L
RT: 5.41 min Scan# 1266
Delta R.T. 0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 18:41

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
56	100		
69	11.8	23.9	35.9#
84	87.5	65.8	98.8

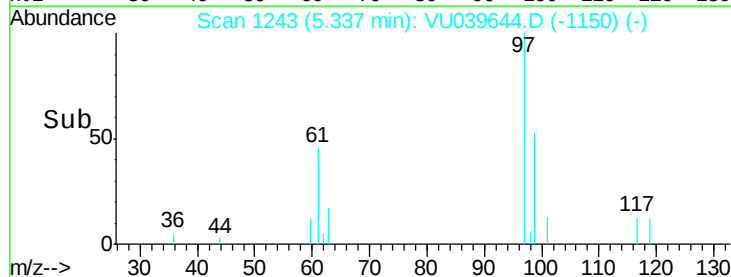
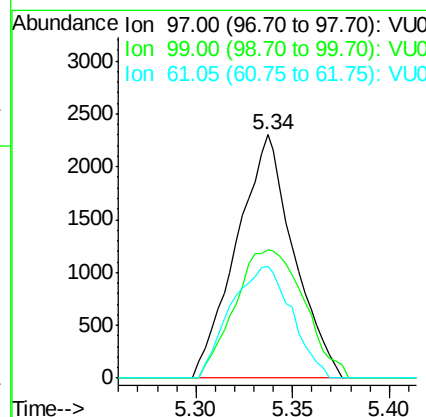
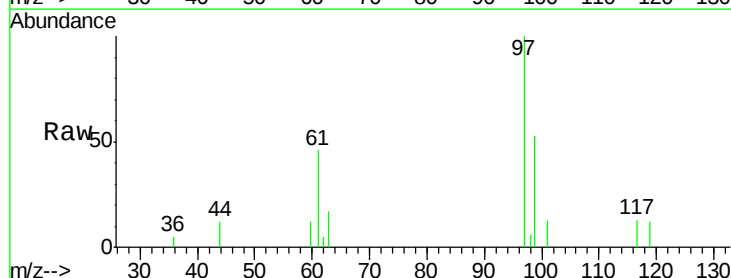
Manual Integrations
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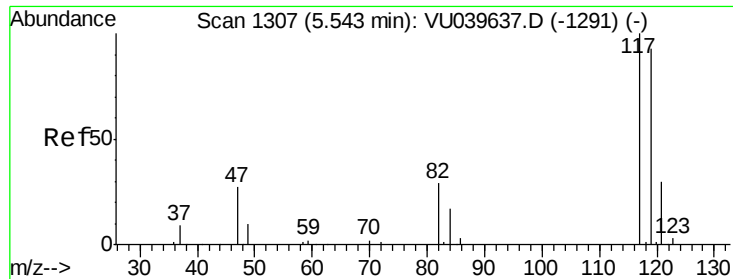
sam
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#30
1,1,1-Trichloroethane
Concen: 1.943 ug/L
RT: 5.34 min Scan# 1243
Delta R.T. 0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 18:41

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	50.3	75.5
61	49.2	36.0	54.0





#31

Carbon tetrachloride

Concen: 2.023 ug/L

RT: 5.55 min Scan# 1308

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 18:41

Instrument :

MSVOA_U

ClientSampleId :

MDL05

Tot Ion:117 Resp: 4082

Ion Ratio Lower Upper

117 100

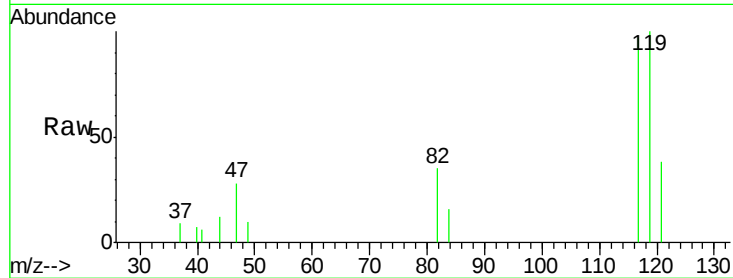
119 91.1 78.2 117.4

Manual Integrations

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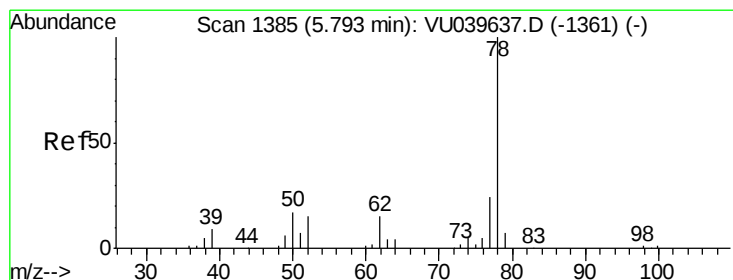
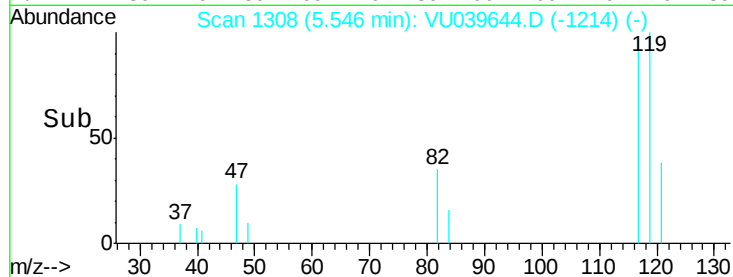
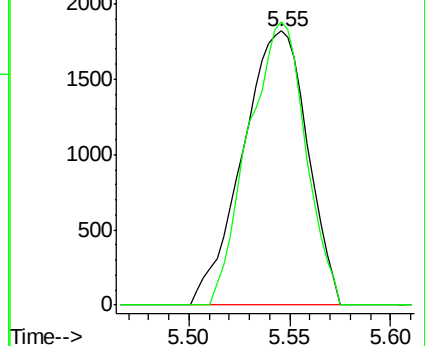
sam

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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.109 ug/L

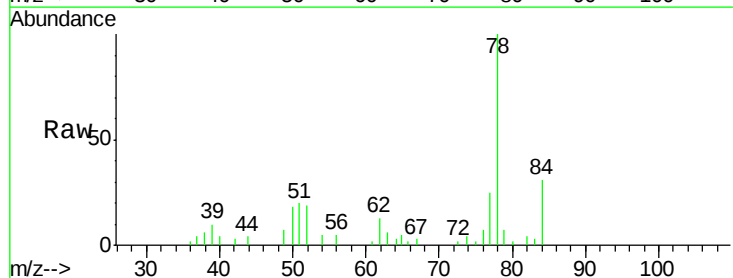
RT: 5.79 min Scan# 1384

Delta R.T. -0.00 min

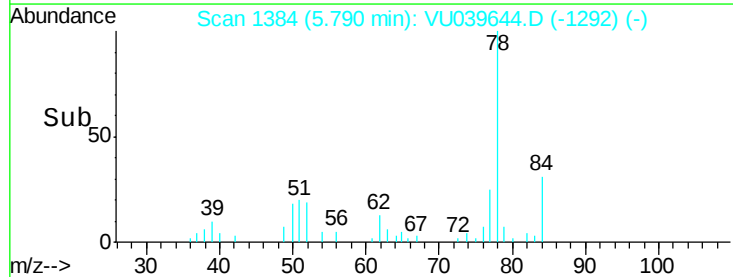
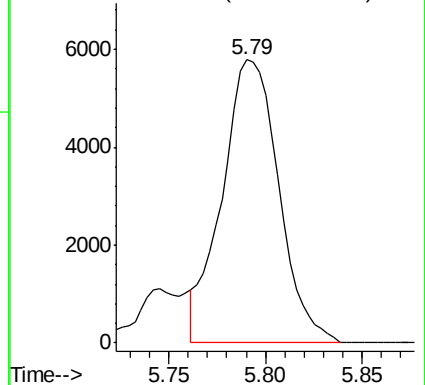
Lab File: VU039644.D

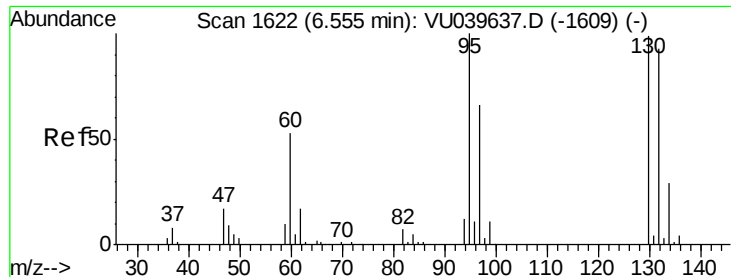
Acq: 23 Jul 2020 18:41

Tgt Ion: 78 Resp: 11811



Abundance Ion 78.00 (77.70 to 78.70): VU0





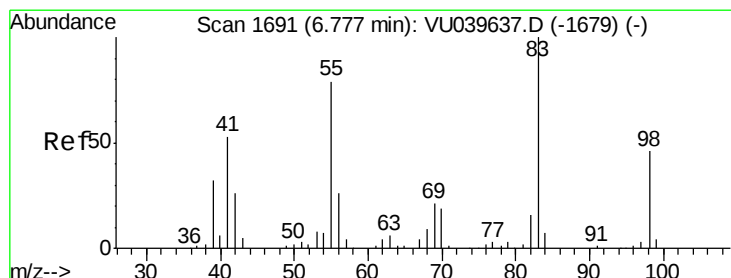
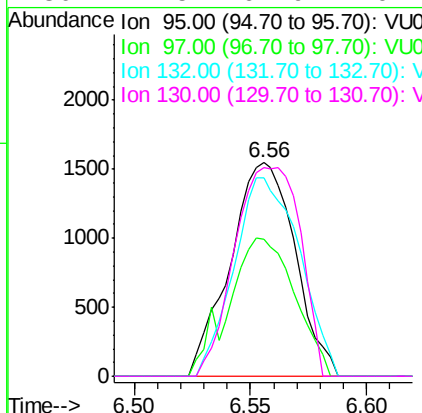
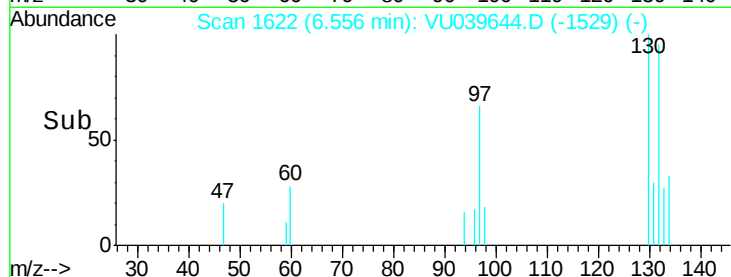
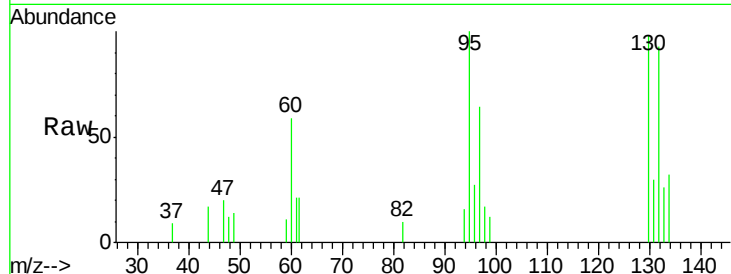
#34
 Trichloroethene
 Concen: 2.037 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 18:41

Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

Tot Ion: 95 Resp: 3017
 Ion Ratio Lower Upper
 95 100
 97 64.1 45.5 84.5
 132 93.0 65.0 120.6
 130 127.5 67.9 126.1#

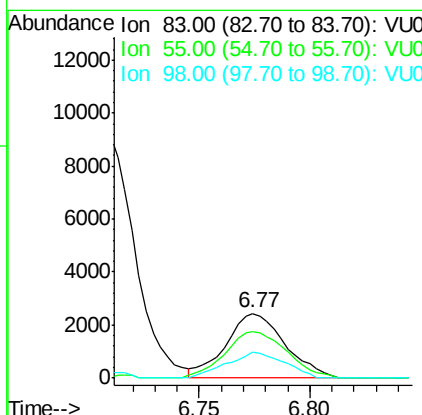
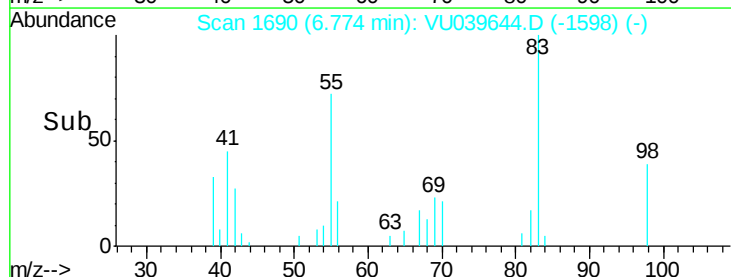
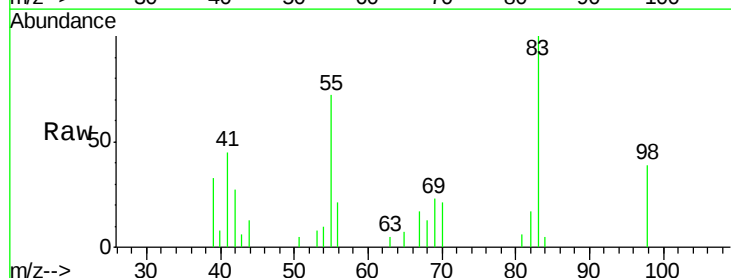
Manual Integrations
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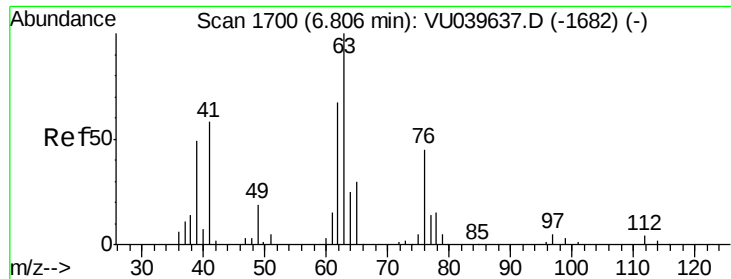
sam
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#35
 Methylcyclohexane
 Concen: 1.977 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. -0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 18:41

Tgt Ion: 83 Resp: 4527
 Ion Ratio Lower Upper
 83 100
 55 75.4 62.9 94.3
 98 39.1 36.3 54.5





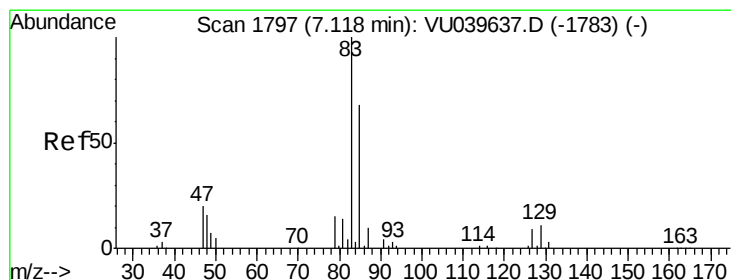
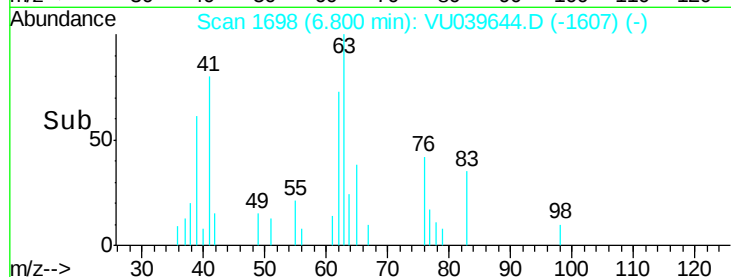
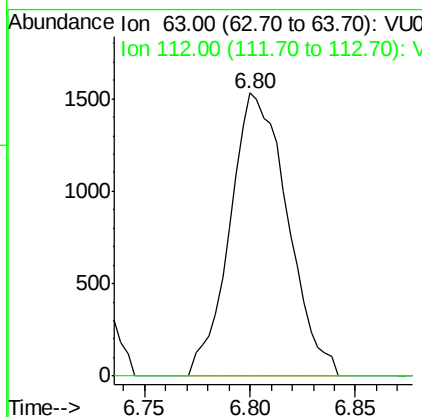
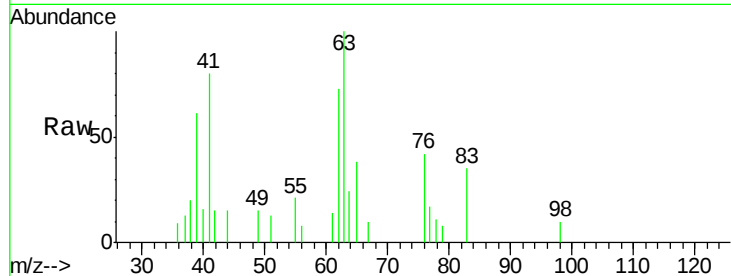
#37
 1,2-Dichloropropane
 Concen: 1.917 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. -0.01 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 18:41

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion: 63 Resp: 2907
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.0 4.4#

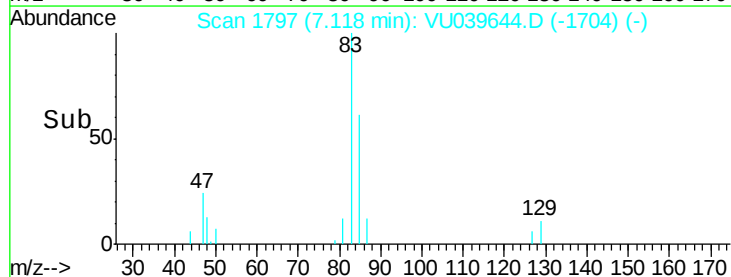
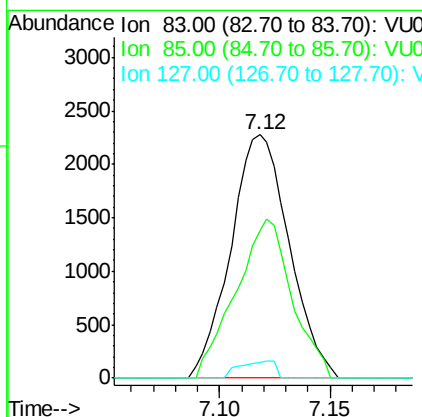
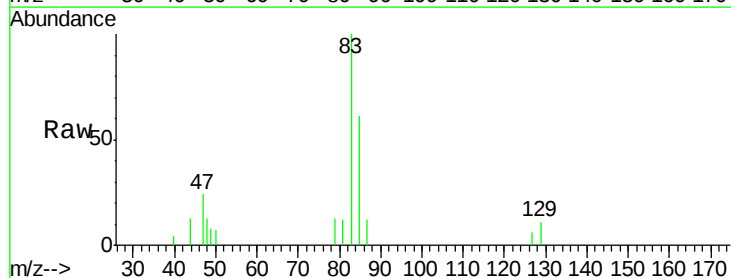
Manual Integrations
 APPROVED

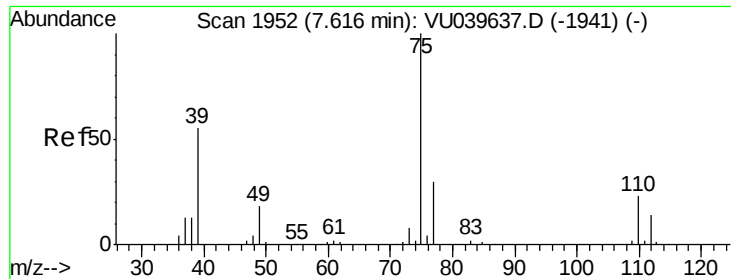
sam
 7/30/2020 2:58:20 AM



#38
 Bromodichloromethane
 Concen: 2.079 ug/L
 RT: 7.12 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 18:41

Tgt Ion: 83 Resp: 4186
 Ion Ratio Lower Upper
 83 100
 85 60.7 45.9 85.3
 127 6.4 7.4 11.2#





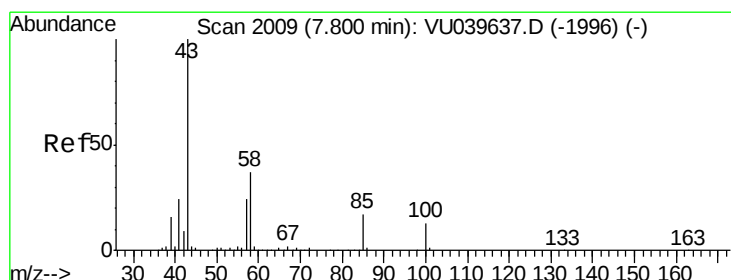
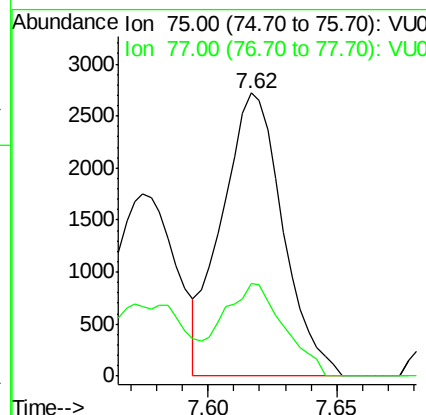
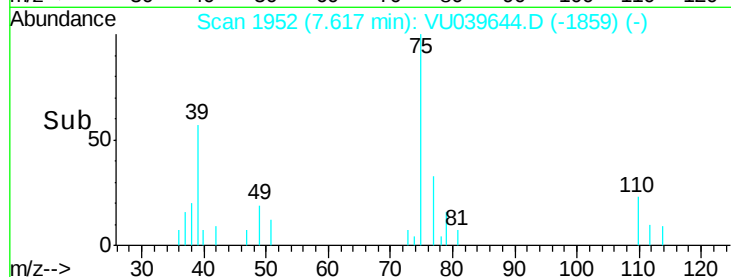
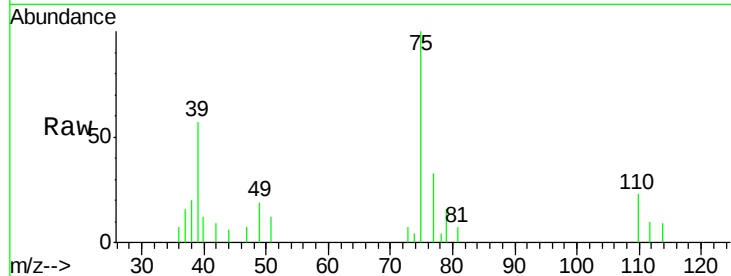
#39
 cis-1,3-Dichloropropene
 Concen: 1.977 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 18:41

Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

Tot Ion: 75 Resp: 4479
 Ion Ratio Lower Upper
 75 100
 77 32.9 21.8 40.6

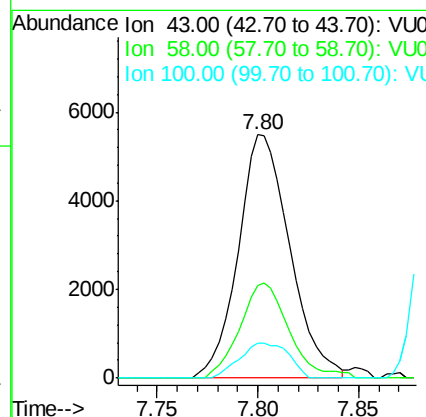
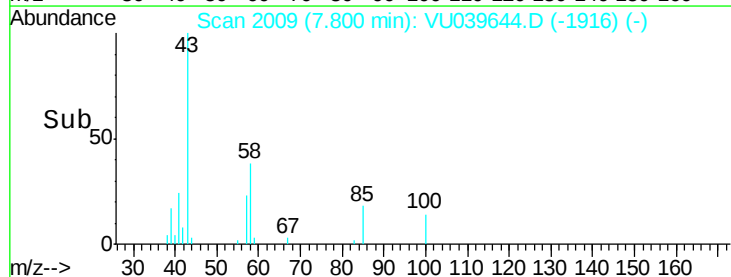
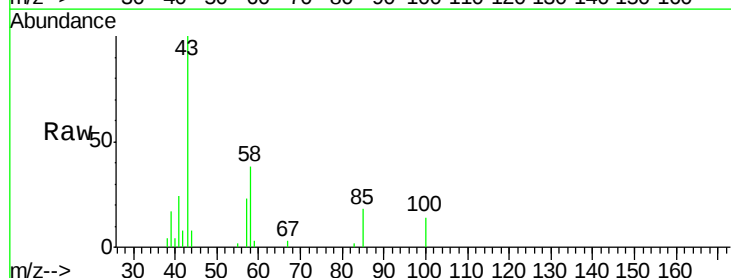
Manual Integrations
 APPROVED

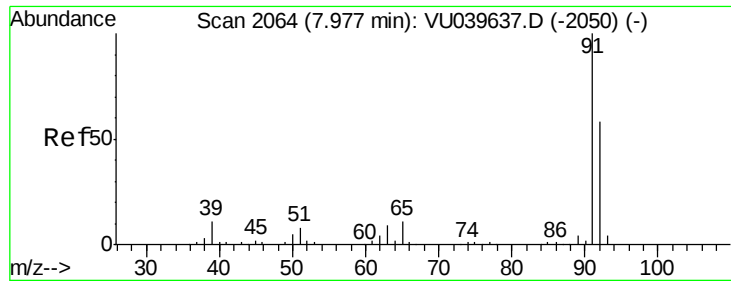
sam
 7/30/2020 2:58:20 AM



#40
 4-Methyl-2-pentanone
 Concen: 3.721 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. 0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 18:41

Tgt Ion: 43 Resp: 9829
 Ion Ratio Lower Upper
 43 100
 58 37.1 29.1 43.7
 100 13.8 10.6 16.0





#42

Toluene

Concen: 2.054 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 18:41

Instrument :

MSVOA_U

ClientSampleId :

MDL05

Tot Ion: 91 Resp: 12647

Ion Ratio Lower Upper

91 100

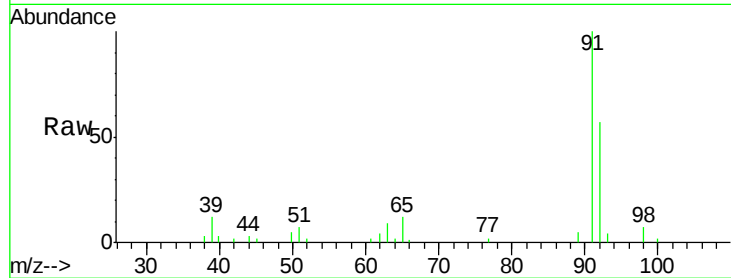
92 57.0 40.1 74.5

Manual Integrations

APPROVED

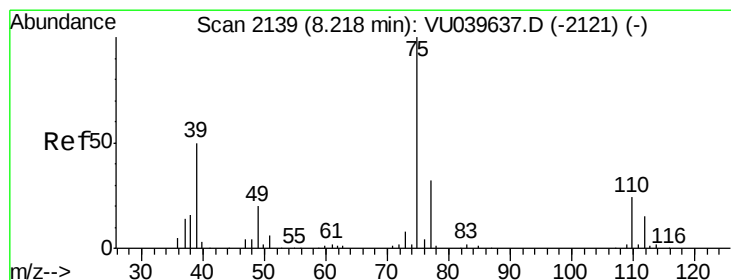
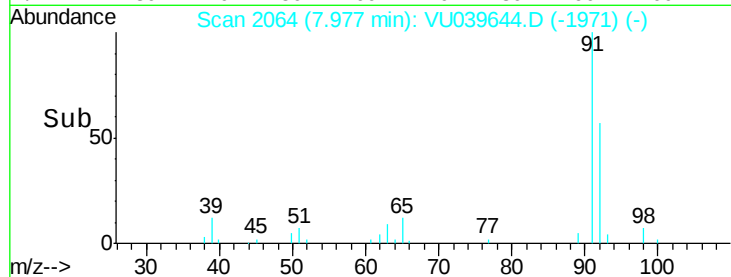
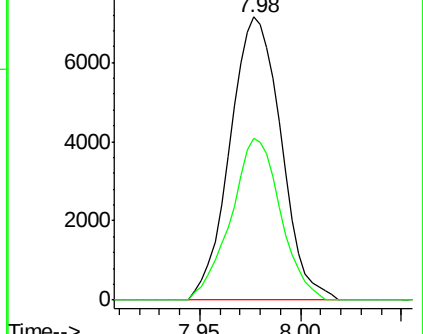
sam

7/30/2020 2:58:20 AM



Abundance Ion 91.00 (90.70 to 91.70): VU039637.D (-2050) (-)

Ion 92.00 (91.70 to 92.70): VU039637.D (-2050) (-)



#44

trans-1,3-Dichloropropene

Concen: 1.814 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. 0.00 min

Lab File: VU039644.D

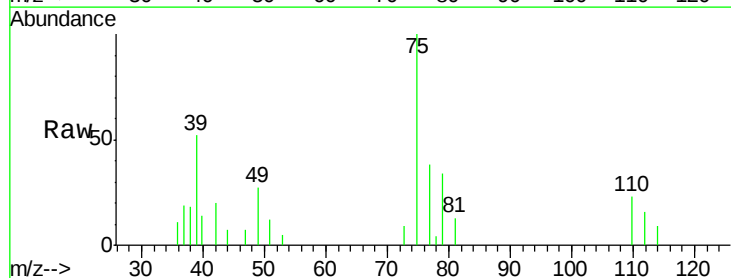
Acq: 23 Jul 2020 18:41

Tgt Ion: 75 Resp: 4026

Ion Ratio Lower Upper

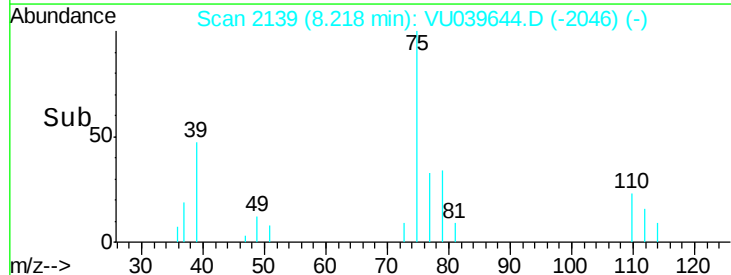
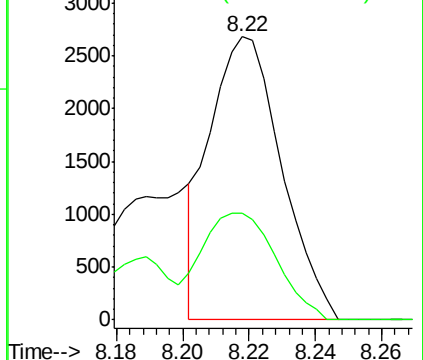
75 100

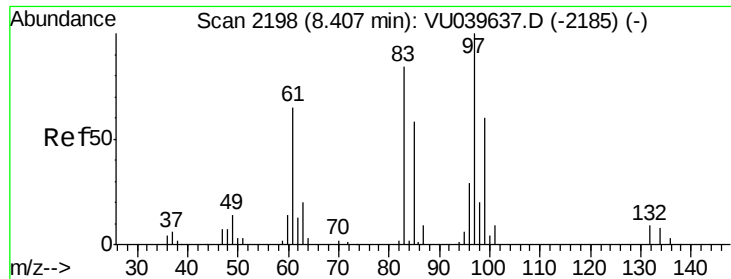
77 37.7 22.7 42.1



Abundance Ion 75.00 (74.70 to 75.70): VU039637.D (-2121) (-)

Ion 77.00 (76.70 to 77.70): VU039637.D (-2121) (-)





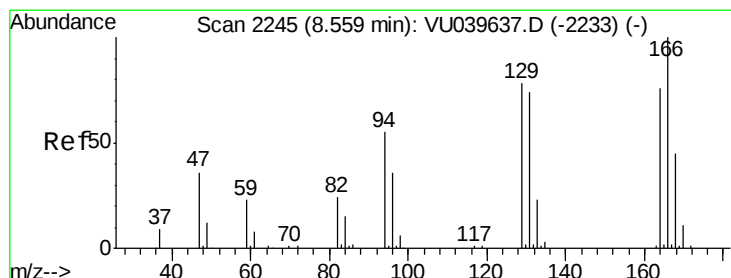
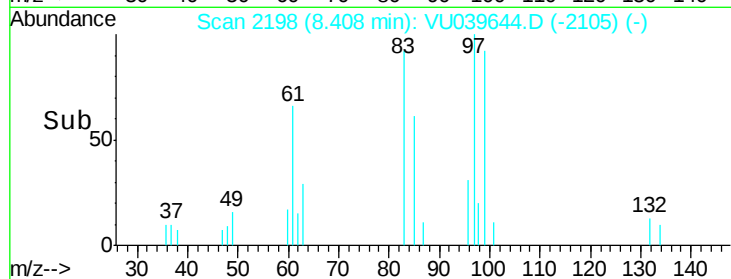
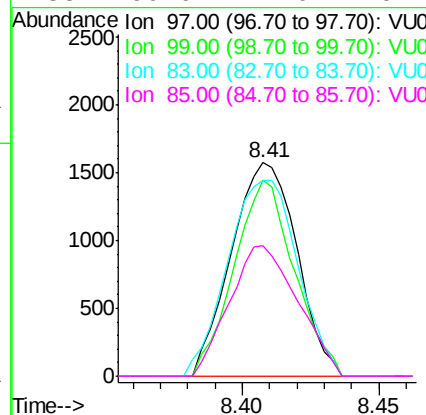
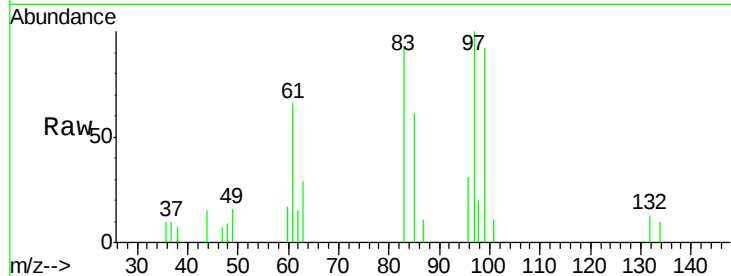
#45
 1,1,2-Trichloroethane
 Concen: 1.818 ug/L
 RT: 8.41 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 18:41

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion:	97	Resp:	2628
Ion	Ratio	Lower	Upper
97	100		
99	91.9	45.1	83.9#
83	91.6	62.7	116.5
85	60.9	41.0	76.2

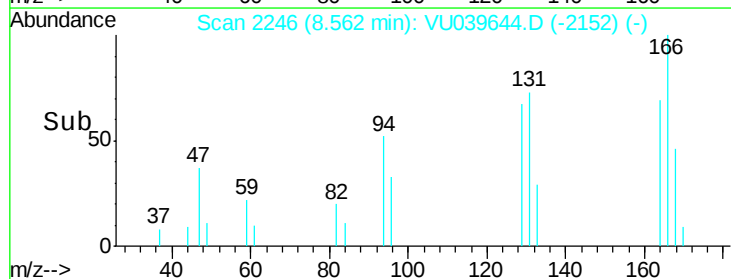
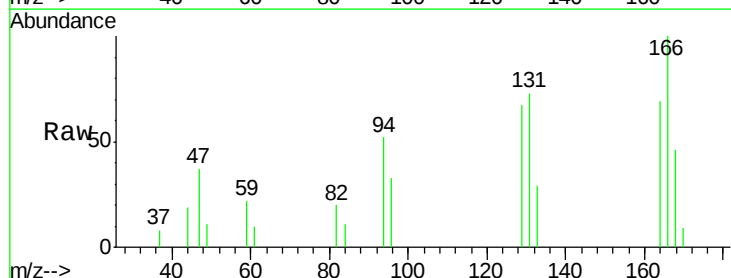
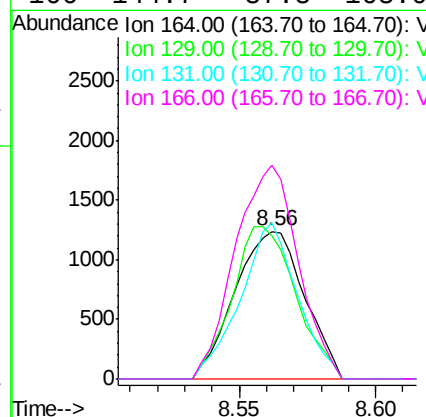
Manual Integrations
 APPROVED

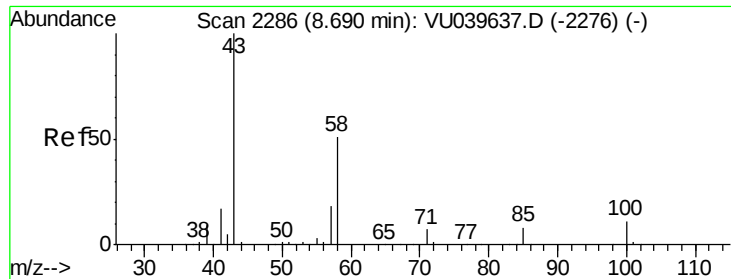
sam
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#46
 Tetrachloroethene
 Concen: 1.950 ug/L
 RT: 8.56 min Scan# 2246
 Delta R.T. 0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 18:41

Tgt Ion:	164	Resp:	2185
Ion	Ratio	Lower	Upper
164	100		
129	96.8	71.1	132.1
131	105.7	70.3	130.5
166	144.7	87.8	163.0





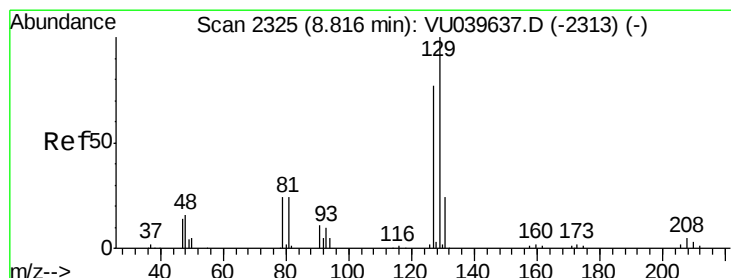
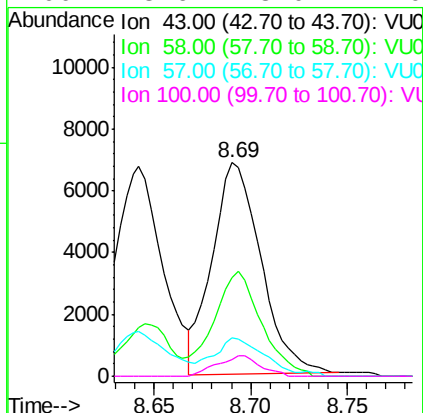
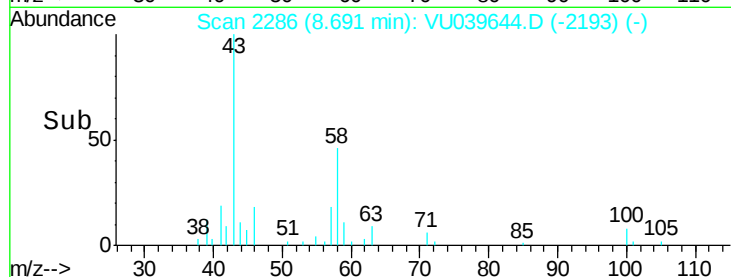
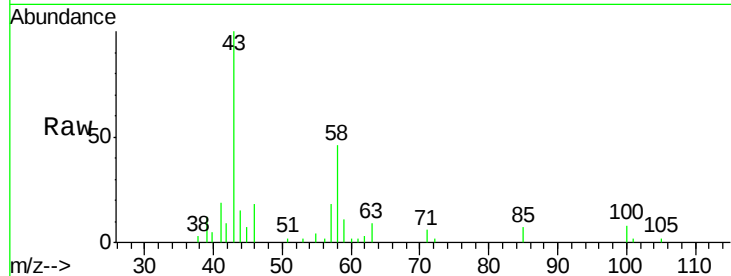
#48
2-Hexanone
Concen: 5.592 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. 0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 18:41

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	48.7	40.6	61.0	
57	18.6	14.5	21.7	
100	8.6	8.0	12.0	

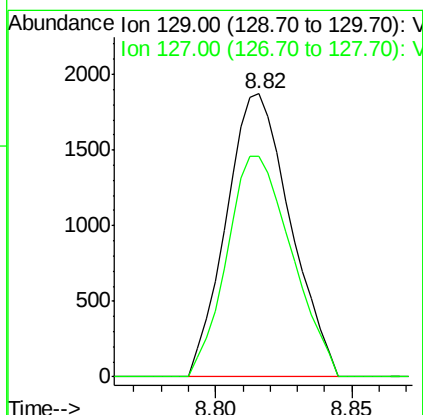
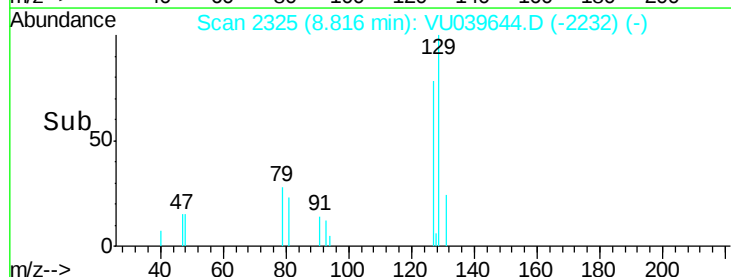
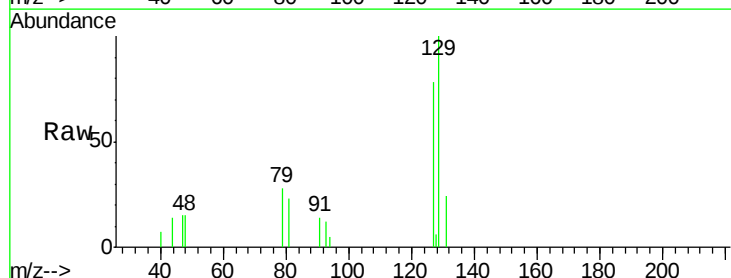
Manual Integrations
APPROVED

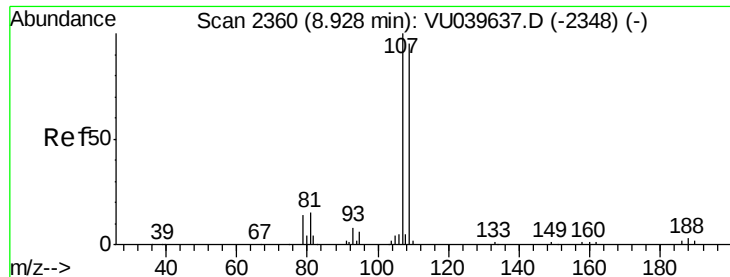
sam
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#49
Dibromochloromethane
Concen: 1.873 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 18:41

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.2	54.3	100.9	





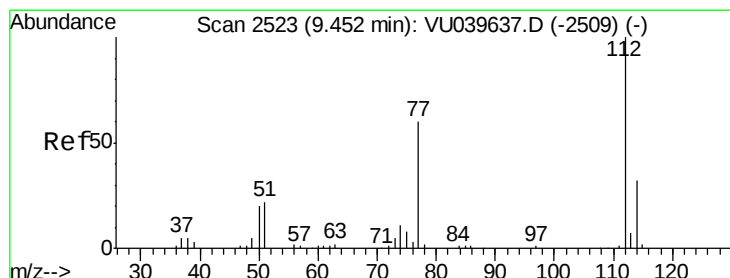
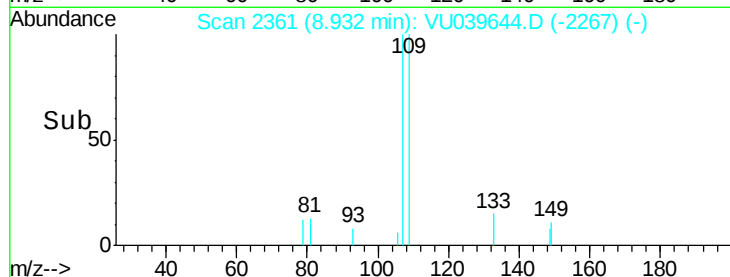
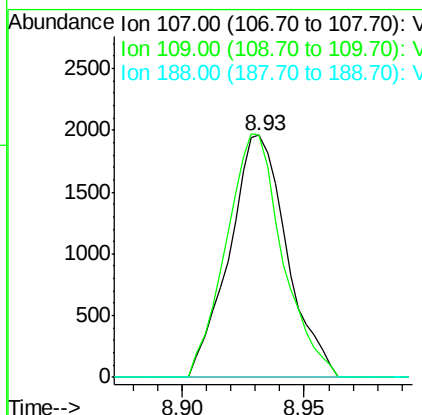
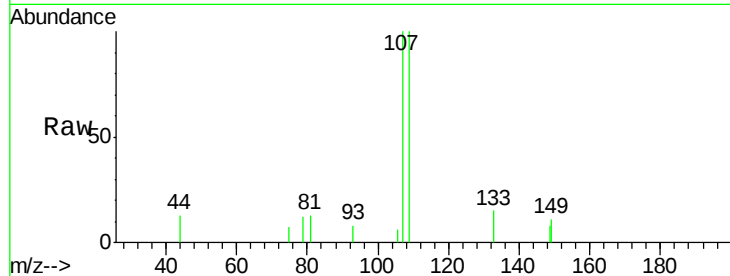
#50
1,2-Dibromoethane
Concen: 1.991 ug/L
RT: 8.93 min Scan# 2361
Delta R.T. 0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 18:41

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
107	100		
109	100.2	66.8	124.2
188	0.0	3.0	4.4#

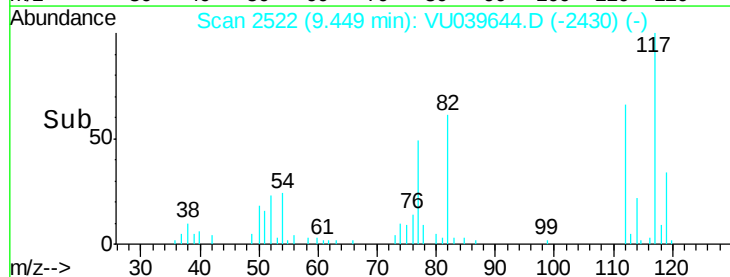
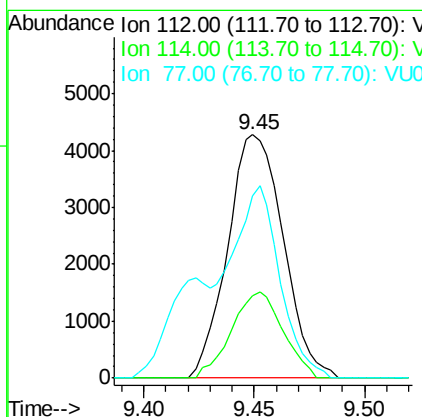
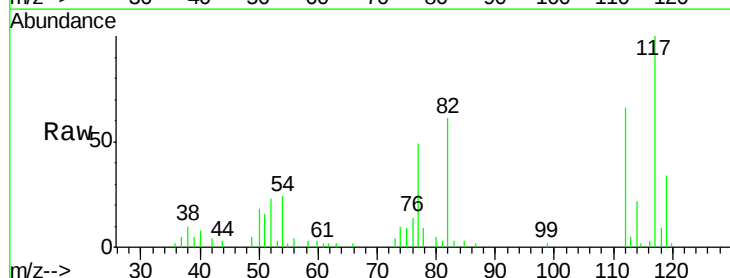
Manual Integrations
APPROVED

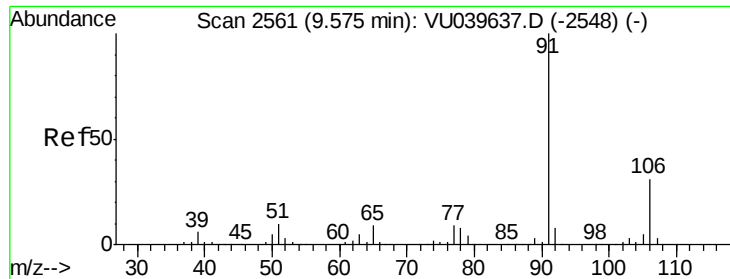
sam
7/30/2020 2:58:20 AM



#51
Chlorobenzene
Concen: 1.907 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. -0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 18:41

Tgt Ion	Ratio	Lower	Upper
112	100		
114	36.6	22.9	42.5
77	74.8	49.4	74.0#





#52

Ethylbenzene

Concen: 1.834 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 18:41

Tot Ion: 91 Resp: 12481

Ion Ratio Lower Upper

91 100

106 28.0 21.1 39.1

Instrument :

MSVOA_U

ClientSampled :

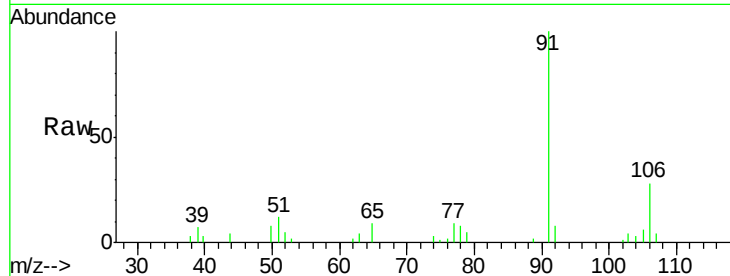
MDL05

Manual Integrations

APPROVED

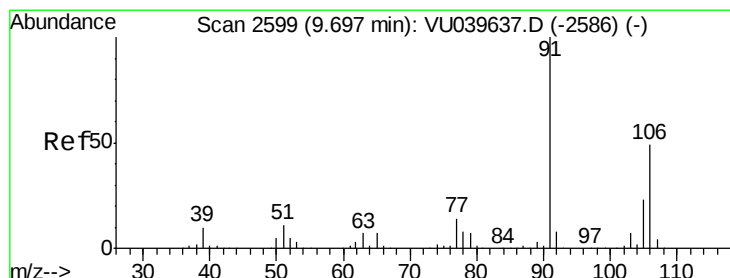
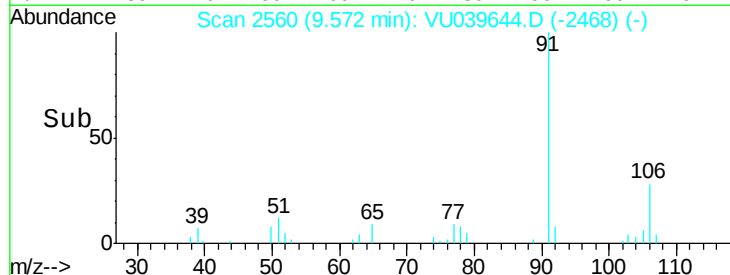
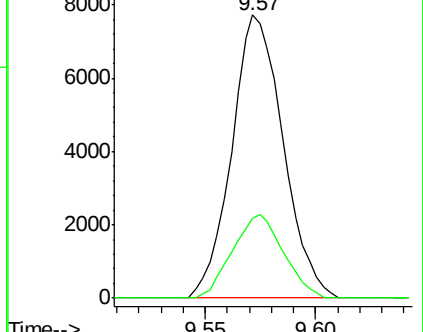
sam

7/30/2020 2:58:20 AM



Abundance Ion 91.00 (90.70 to 91.70): VU039637.D (-2548) (-)

Ion 106.00 (105.70 to 106.70): VU039637.D (-2548) (-)



#53

m,p-Xylene

Concen: 1.903 ug/L

RT: 9.70 min Scan# 2600

Delta R.T. 0.00 min

Lab File: VU039644.D

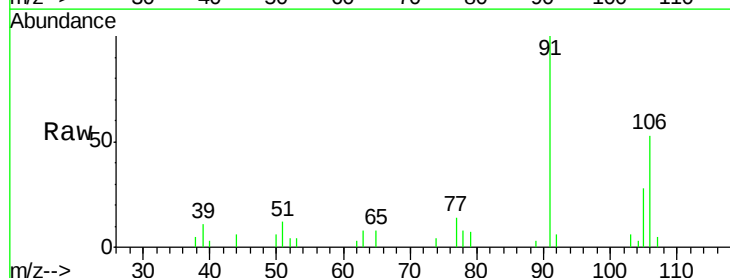
Acq: 23 Jul 2020 18:41

Tgt Ion: 106 Resp: 4881

Ion Ratio Lower Upper

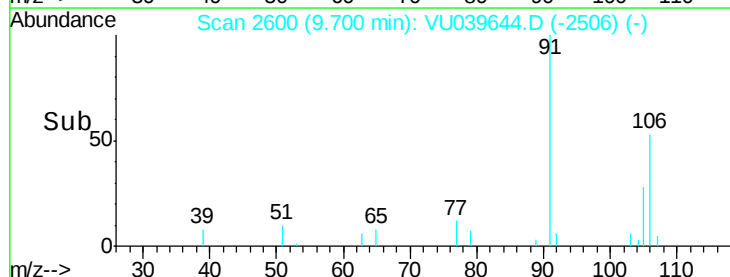
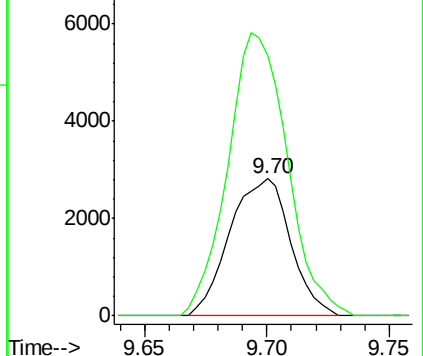
106 100

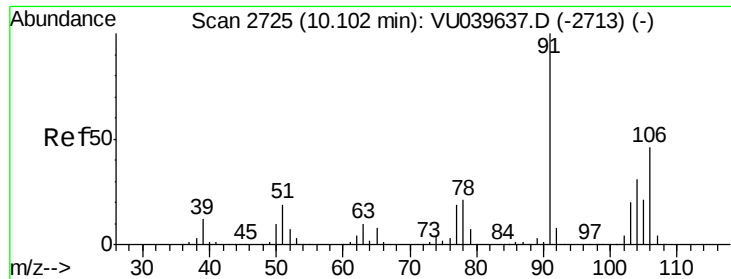
91 189.5 149.7 277.9



Abundance Ion 106.00 (105.70 to 106.70): VU039637.D (-2586) (-)

Ion 91.00 (90.70 to 91.70): VU039637.D (-2586) (-)





#54

o-xylene

Concen: 1.749 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 18:41

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion:106 Resp: 4305

Ion Ratio Lower Upper

106 100

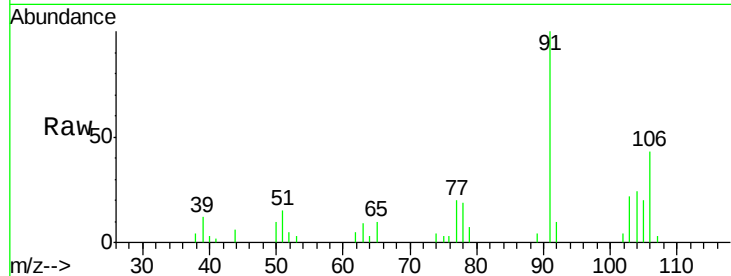
91 233.6 155.1 288.1

Manual Integrations

APPROVED

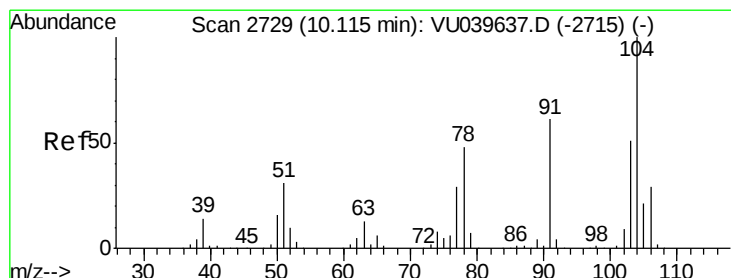
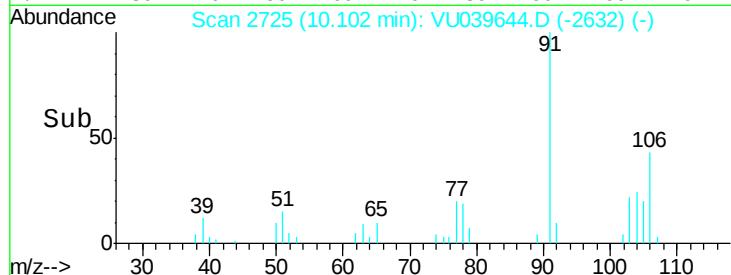
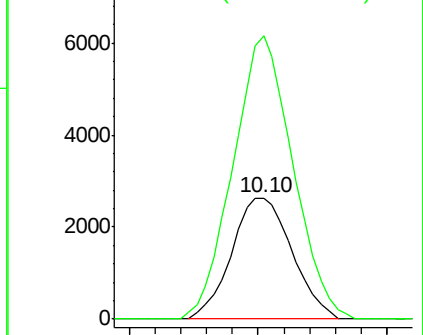
sam

7/30/2020 2:58:20 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.561 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VU039644.D

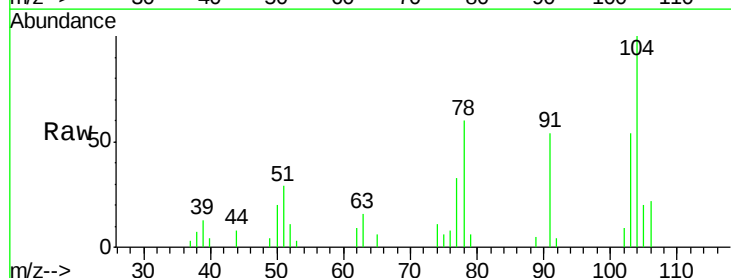
Acq: 23 Jul 2020 18:41

Tgt Ion:104 Resp: 6651

Ion Ratio Lower Upper

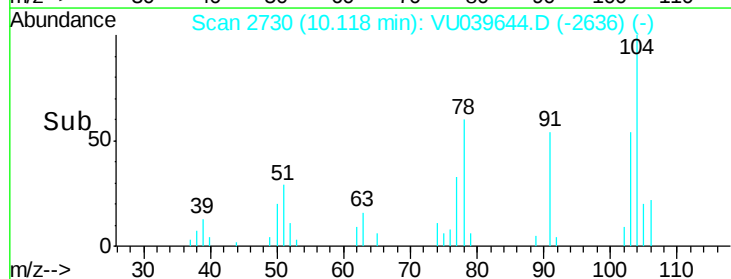
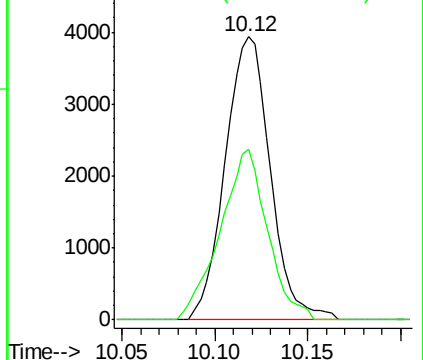
104 100

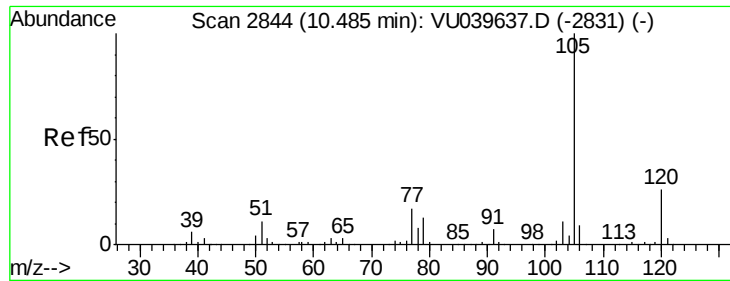
78 60.1 34.3 63.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 1.769 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 18:41

Instrument :

MSVOA_U

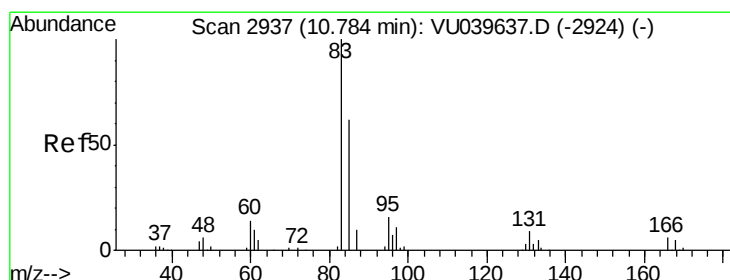
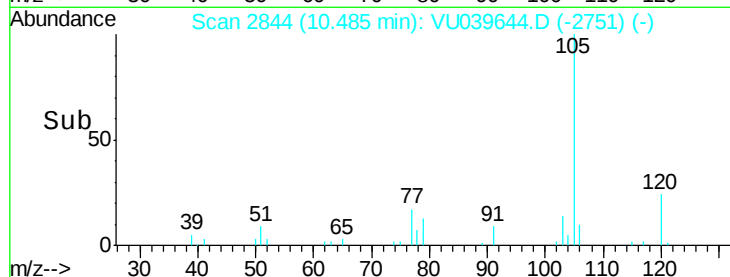
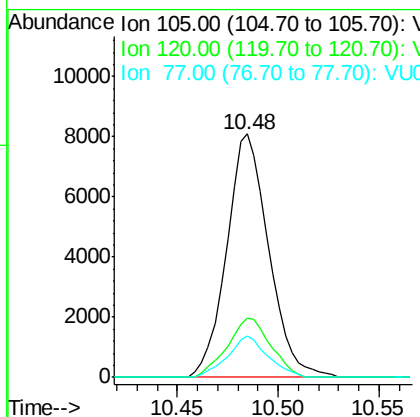
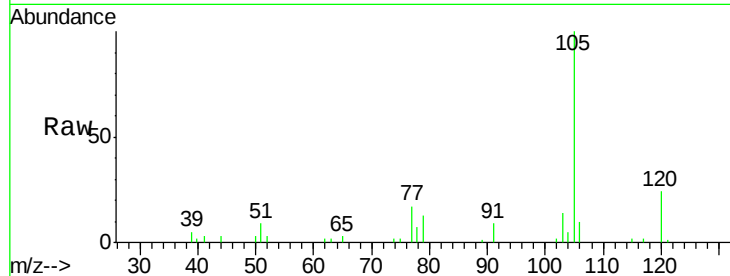
ClientSampled :

MDL05

Tot Ion:	105	Resp:	11823
Ion Ratio	Lower	Upper	
105	100		
120	25.0	20.6	31.0
77	16.3	13.4	20.2

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#58

1,1,2,2-Tetrachloroethane

Concen: 1.992 ug/L

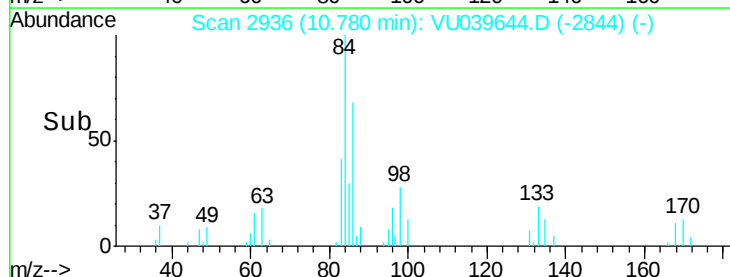
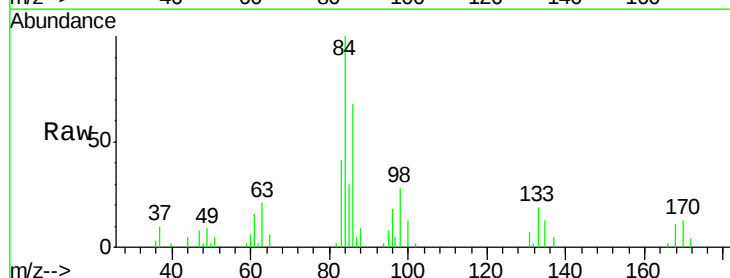
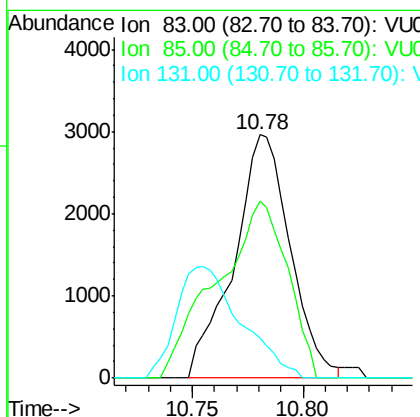
RT: 10.78 min Scan# 2936

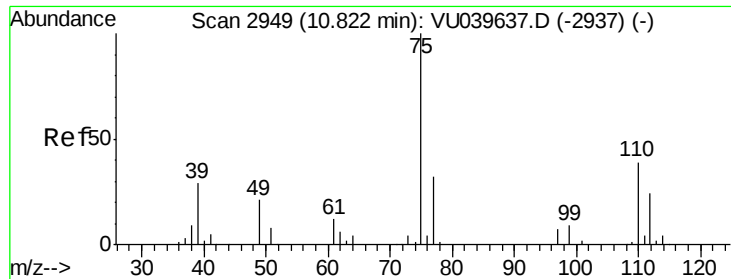
Delta R.T. -0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 18:41

Tgt Ion:	83	Resp:	5248
Ion Ratio	Lower	Upper	
83	100		
85	72.6	46.4	86.2
131	16.4	7.8	11.6#





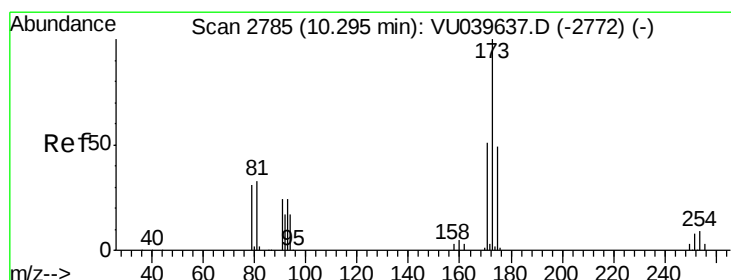
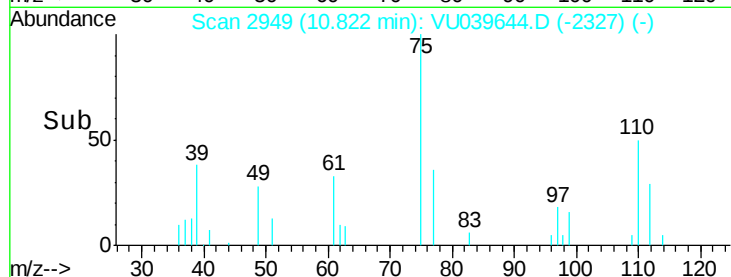
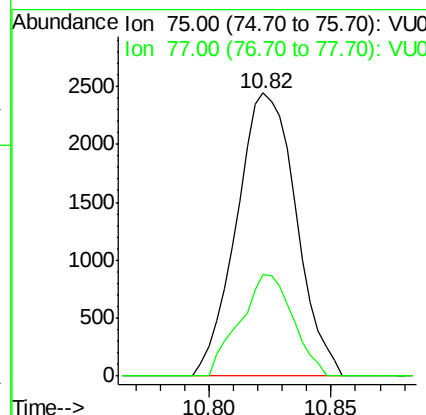
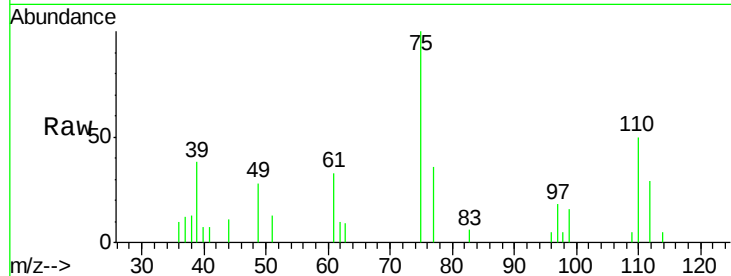
#59
 1,2,3-Trichloropropane
 Concen: 1.881 ug/L
 RT: 10.82 min Scan# 2949
 Delta R.T. 0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 18:41

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion: 75 Resp: 4138
 Ion Ratio Lower Upper
 75 100
 77 31.9 25.4 38.2

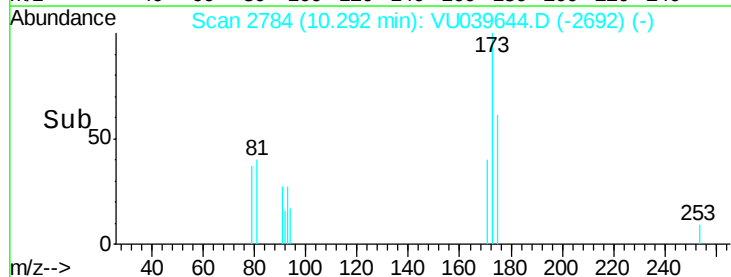
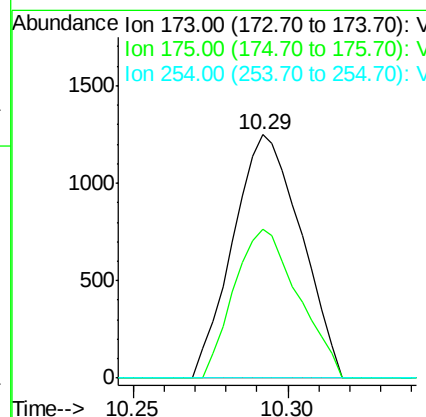
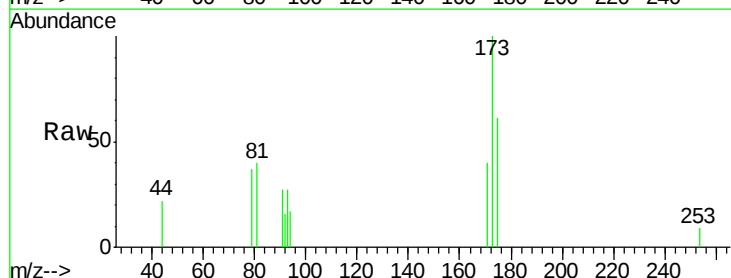
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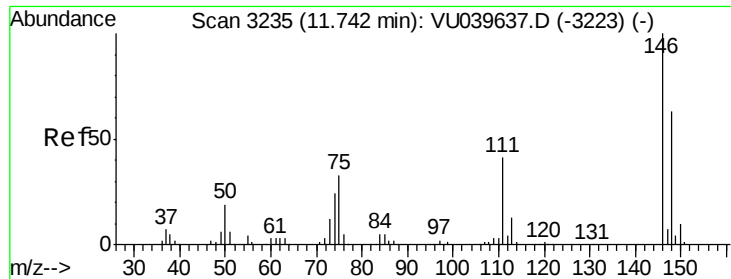
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#61
 Bromoform
 Concen: 1.705 ug/L
 RT: 10.29 min Scan# 2784
 Delta R.T. -0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 18:41

Tgt Ion: 173 Resp: 1909
 Ion Ratio Lower Upper
 173 100
 175 57.8 38.4 57.6#
 254 0.0 7.0 10.6#





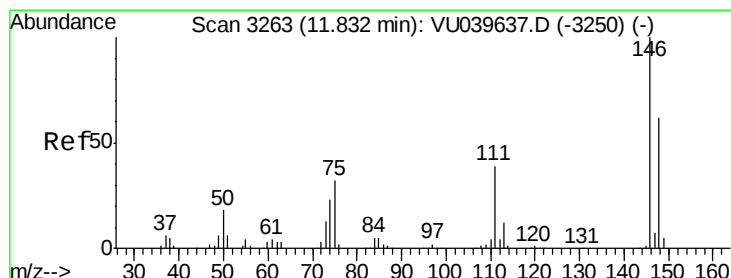
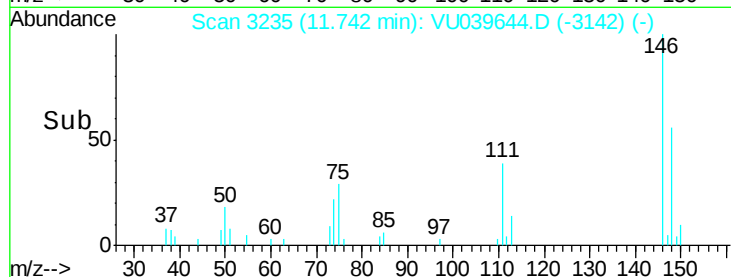
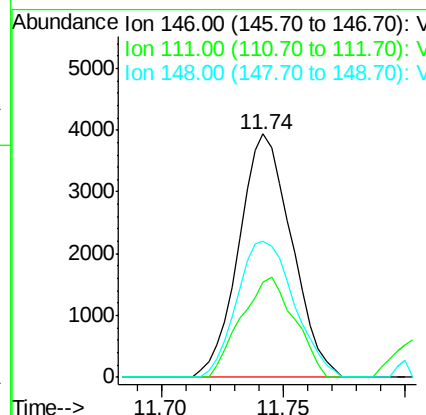
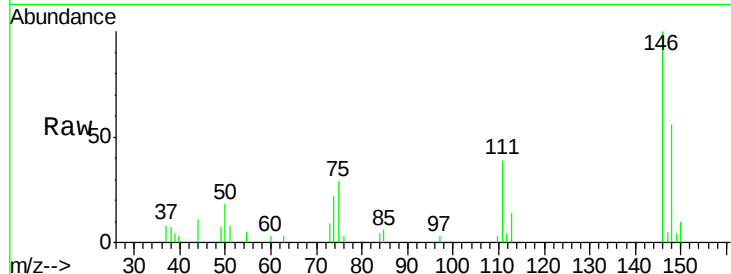
#62
 1,3-Dichlorobenzene
 Concen: 2.038 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 18:41

Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	29.3	54.3
148	55.9	46.1	85.5

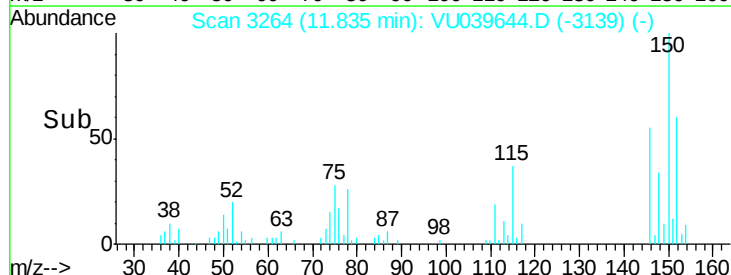
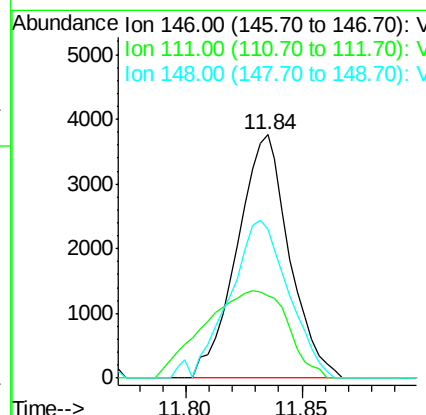
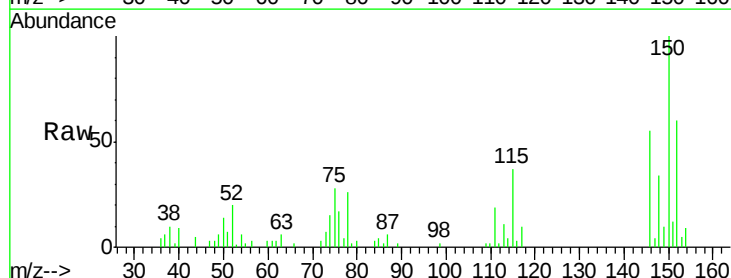
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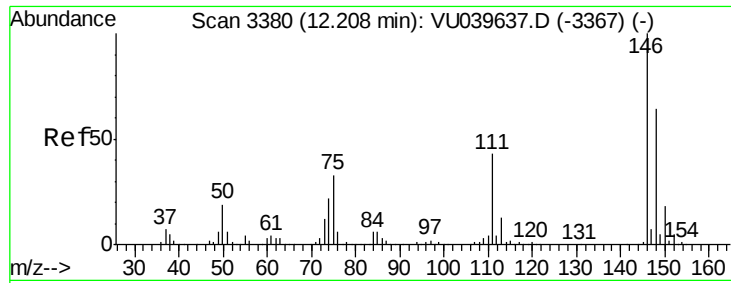
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#63
 1,4-Dichlorobenzene
 Concen: 2.021 ug/L
 RT: 11.84 min Scan# 3264
 Delta R.T. 0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 18:41

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.8	27.8	51.6
148	61.1	44.7	83.1





#65

1,2-Dichlorobenzene

Concen: 2.105 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 18:41

Instrument :

MSVOA_U

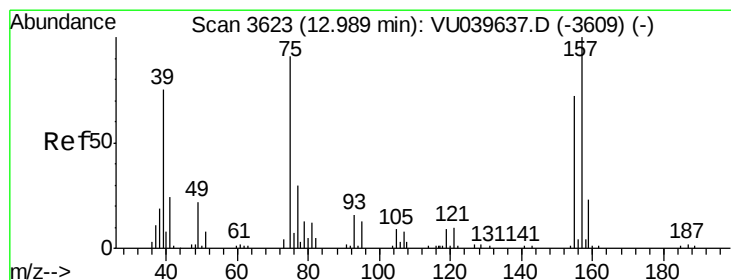
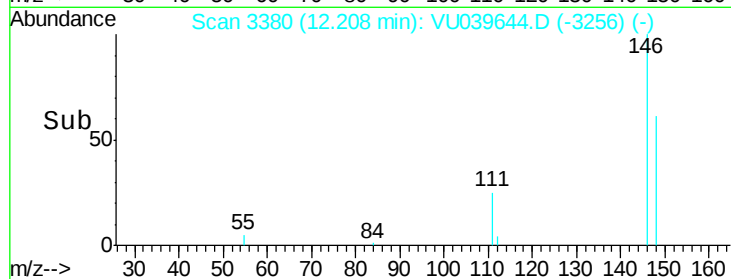
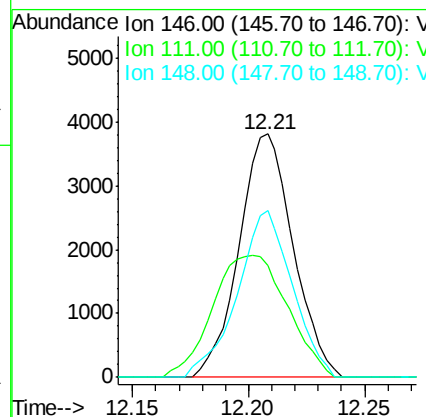
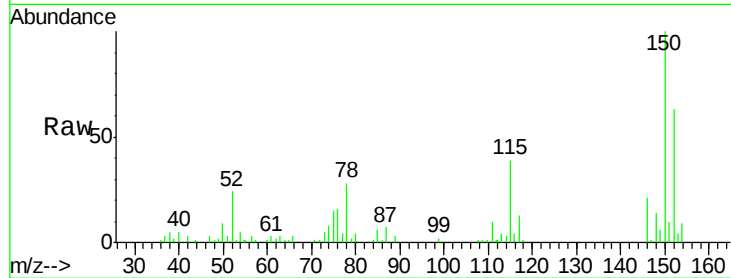
ClientSampled :

MDL05

Tot Ion:	146	Resp:	6168
Ion Ratio	Lower	Upper	
146	100		
111	45.9	34.8	52.2
148	68.4	52.5	78.7

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#66

1,2-Dibromo-3-chloropropane

Concen: 1.953 ug/L

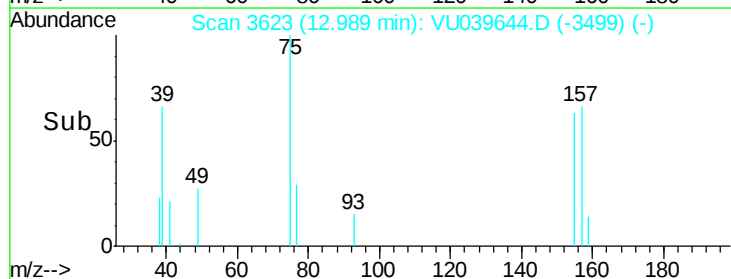
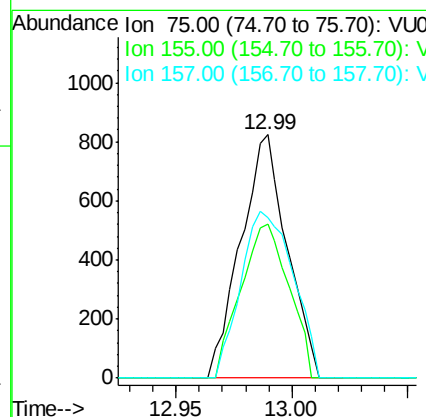
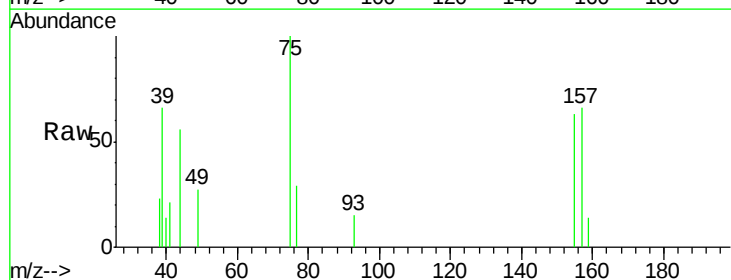
RT: 12.99 min Scan# 3623

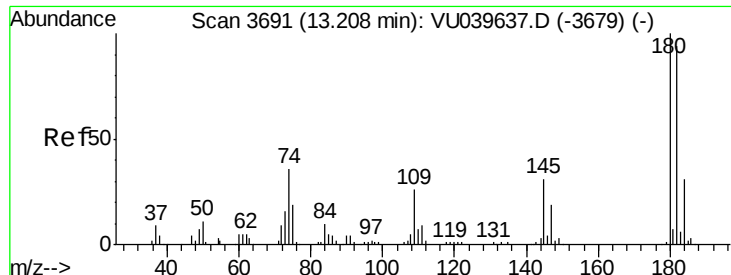
Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 18:41

Tgt Ion:	75	Resp:	1145
Ion Ratio	Lower	Upper	
75	100		
155	63.1	62.4	93.6
157	65.7	78.9	118.3#





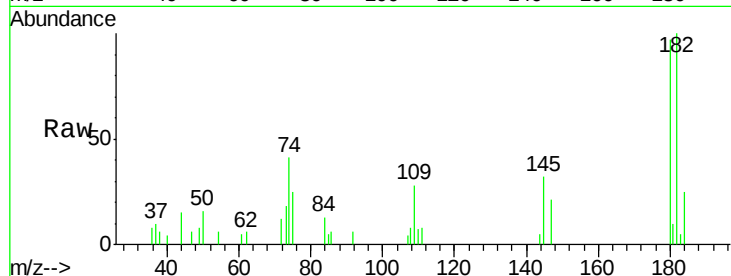
#67
 1,3,5-Trichlorobenzene
 Concen: 1.826 ug/L
 RT: 13.21 min Scan# 3691
 Delta R.T. 0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 18:41

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

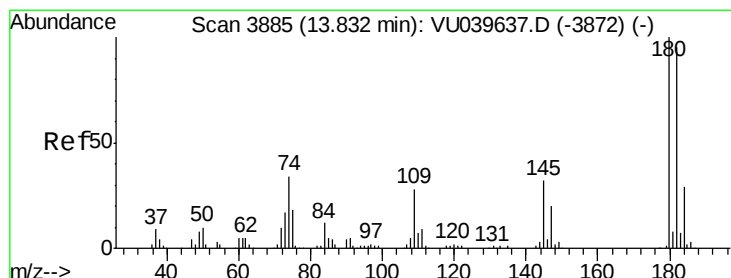
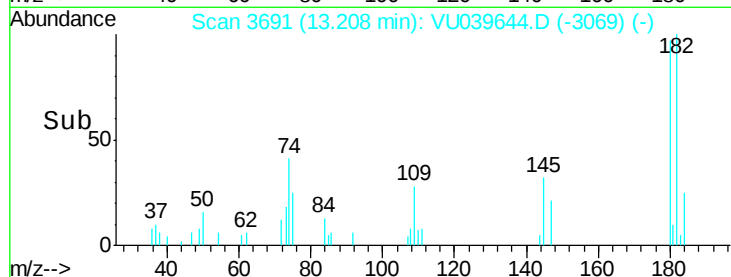
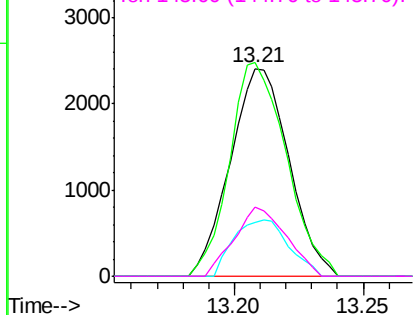
Tot Ion:	180	Resp:	3819
Ion	Ratio	Lower	Upper
180	100		
182	99.7	75.7	113.5
184	25.6	24.2	36.2
145	29.5	24.6	36.8

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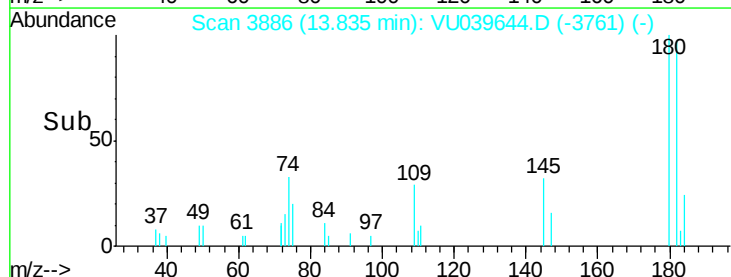
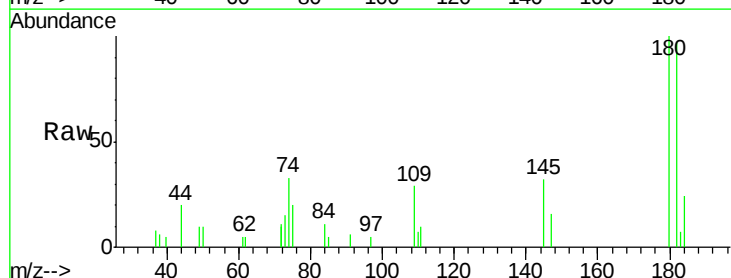
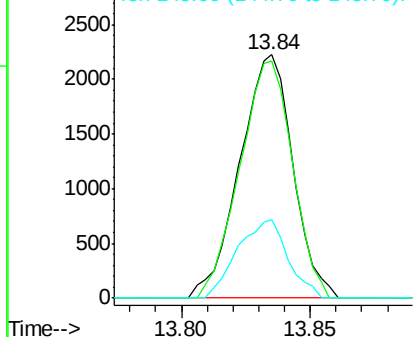
Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

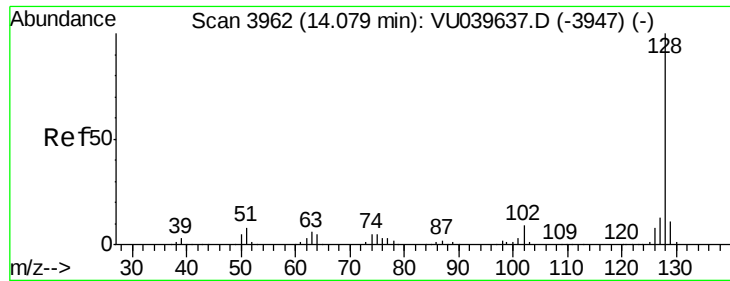


#68
 1,2,4-trichlorobenzene
 Concen: 1.802 ug/L
 RT: 13.84 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 18:41

Tgt Ion:	180	Resp:	3199
Ion	Ratio	Lower	Upper
180	100		
182	96.2	74.4	111.6
145	30.3	24.8	37.2

Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 1.608 ug/L

RT: 14.08 min Scan# 3963

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 18:41

Instrument :

MSVOA_U

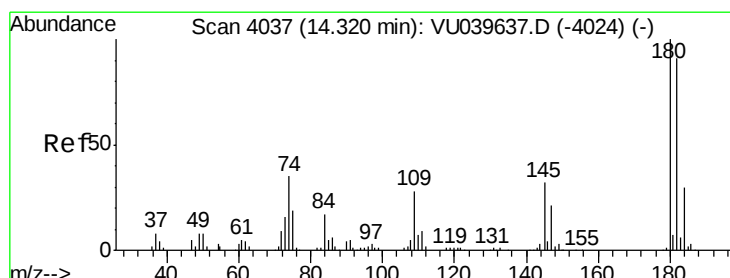
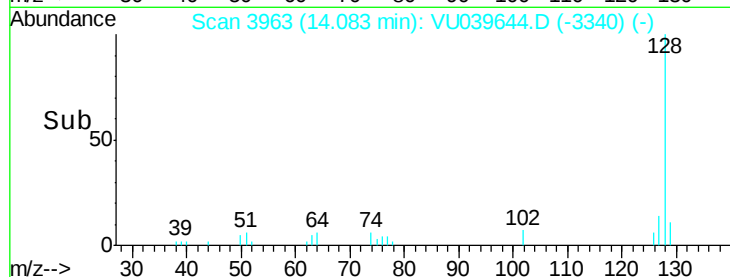
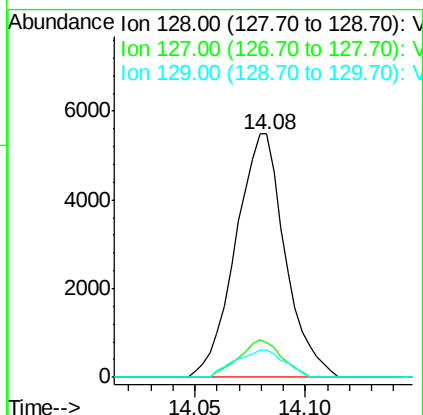
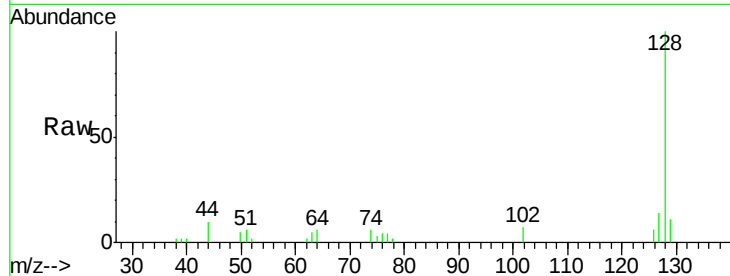
ClientSampled :

MDL05

Tot Ion:	128	Resp:	8560
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.7	16.1
129	11.1	8.8	13.2

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#70

1,2,3-Trichlorobenzene

Concen: 1.798 ug/L

RT: 14.32 min Scan# 4038

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 18:41

Tgt Ion:	180	Resp:	3224
Ion Ratio	Lower	Upper	
180	100		
182	93.3	76.6	114.8
145	29.3	27.0	40.4

