

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072320\
 Data File : VU039645.D
 Acq On : 23 Jul 2020 19:03
 Operator : SY/MD
 Sample : MDL06
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Manual Integrations
 APPROVED

sam
 7/30/2020 2:58:15 AM

Quant Time: Jul 24 03:16:48 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	181085	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	174456	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	79955	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	53802	45.64	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.28%
7) Chloroethane-d5	1.92	69	62657	44.35	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.70%
11) 1,1-Dichloroethene-d2	2.58	63	87997	35.26	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.52%
21) 2-Butanone-d5	4.65	46	130816	96.12	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.12%
24) Chloroform-d	5.09	84	122888	46.35	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.70%
26) 1,2-Dichloroethane-d4	5.72	65	91045	48.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.10%
32) Benzene-d6	5.75	84	239356	49.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.82%
36) 1,2-Dichloropropane-d6	6.71	67	79565	50.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.18%
41) Toluene-d8	7.91	98	218928	48.03	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.06%
43) trans-1,3-Dichloropropene-	8.19	79	37191	46.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.78%
47) 2-Hexanone-d5	8.64	63	83027	95.81	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.81%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	116438	46.29	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.58%
64) 1,2-Dichlorobenzene-d4	12.19	152	88116	50.40	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	2619	2.123	ug/L	100
3) Chloromethane	1.53	50	2990	2.333	ug/L	98
5) Vinyl chloride	1.61	62	3202	2.459	ug/L #	83
6) Bromomethane	1.87	94	2674	2.733	ug/L	95
8) Chloroethane	1.94	64	2778	2.399	ug/L	95
9) Trichlorofluoromethane	2.15	101	4780	2.077	ug/L	89
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	3075	2.776	ug/L #	78
12) 1,1-Dichloroethene	2.59	96	2872	2.780	ug/L #	1
13) Acetone	2.65	43	3934	4.343	ug/L	88
14) Carbon disulfide	2.81	76	7048	2.132	ug/L #	93
15) Methyl Acetate	2.97	43	3307	2.038	ug/L	96
16) Methylene chloride	3.06	84	2674	2.161	ug/L	94
17) trans-1,2-Dichloroethene	3.37	96	2622	2.281	ug/L	82
18) Methyl tert-butyl Ether	3.38	73	7884	2.122	ug/L #	90
19) 1,1-Dichloroethane	3.89	63	5049	2.251	ug/L	97
20) cis-1,2-Dichloroethene	4.68	96	3068	2.335	ug/L	83
22) 2-Butanone	4.73	43	5600	4.387	ug/L	89

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Manual Integrations
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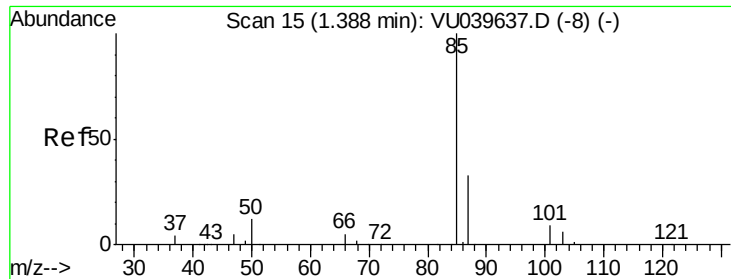
sam
 7/30/2020 2:58:15 AM

Quant Time: Jul 24 03:16:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072320WMA.M
 Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	5.00	128	1353m	2.049	ug/L	
25) Chloroform	5.11	83	10651	4.281	ug/L	95
27) 1,2-Dichloroethane	5.81	62	4975	2.411	ug/L	100
29) Cyclohexane	5.40	56	4540	2.395	ug/L #	87
30) 1,1,1-Trichloroethane	5.33	97	4571	2.189	ug/L #	77
31) Carbon tetrachloride	5.55	117	4183	2.415	ug/L	95
33) Benzene	5.79	78	11359	2.362	ug/L	100
34) Trichloroethene	6.56	95	3363	2.644	ug/L	88
35) Methylcyclohexane	6.78	83	4286	2.180	ug/L	94
37) 1,2-Dichloropropane	6.81	63	3231	2.482	ug/L #	89
38) Bromodichloromethane	7.12	83	3640	2.106	ug/L #	95
39) cis-1,3-Dichloropropene	7.62	75	4472	2.299	ug/L	96
40) 4-Methyl-2-pentanone	7.80	43	9682	4.269	ug/L	98
42) Toluene	7.98	91	11826	2.237	ug/L	99
44) trans-1,3-Dichloropropene	8.22	75	3972	2.085	ug/L	97
45) 1,1,2-Trichloroethane	8.41	97	2953	2.379	ug/L	88
46) Tetrachloroethene	8.56	164	2072	2.154	ug/L	82
48) 2-Hexanone	8.69	43	11925	6.453	ug/L	98
49) Dibromochloromethane	8.81	129	2823	2.014	ug/L	87
50) 1,2-Dibromoethane	8.93	107	3094	2.240	ug/L #	94
51) Chlorobenzene	9.45	112	7234	2.144	ug/L	89
52) Ethylbenzene	9.57	91	12597	2.156	ug/L	94
53) m,p-Xylene	9.70	106	4271	1.939	ug/L	96
54) o-xylene	10.10	106	4190	1.982	ug/L	90
55) Styrene	10.12	104	6710	1.834	ug/L	94
56) Isopropylbenzene	10.48	105	11363	1.980	ug/L	98
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	5231	2.312	ug/L #	90
59) 1,2,3-Trichloropropane	10.83	75	3803m	2.013	ug/L	
61) Bromoform	10.29	173	1837	1.942	ug/L #	81
62) 1,3-Dichlorobenzene	11.74	146	5722	2.336	ug/L	97
63) 1,4-Dichlorobenzene	11.83	146	5571	2.271	ug/L	96
65) 1,2-Dichlorobenzene	12.21	146	5882	2.377	ug/L #	92
66) 1,2-Dibromo-3-chloropropan	12.98	75	944m	1.907	ug/L	
67) 1,3,5-Trichlorobenzene	13.21	180	3812	2.158	ug/L	98
68) 1,2,4-trichlorobenzene	13.83	180	2980	1.988	ug/L	92
69) Naphthalene	14.08	128	8230	1.830	ug/L	97
70) 1,2,3-Trichlorobenzene	14.32	180	3058	2.020	ug/L	94

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



#2

Dichlorodifluoromethane

Concen: 2.123 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU039645.D

Acq: 23 Jul 2020 19:03

Instrument :

MSVOA_U

ClientSampled :

MDL06

Tot Ion: 85 Resp: 2619

Ion Ratio Lower Upper

85 100

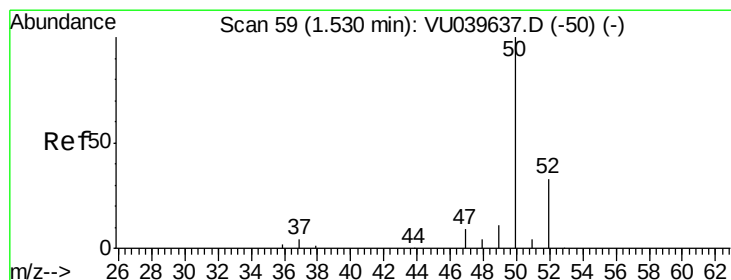
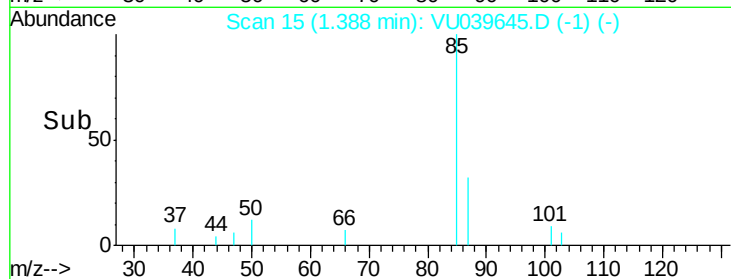
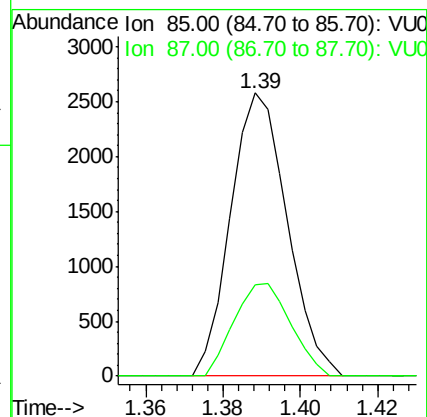
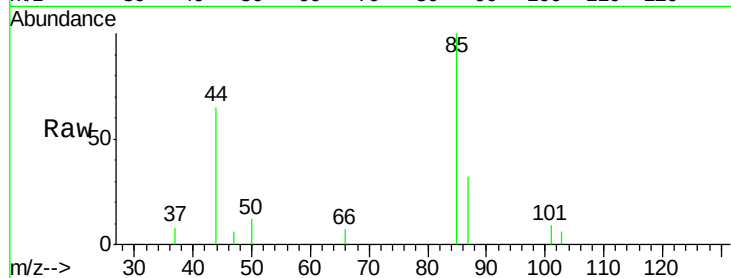
87 32.7 26.2 39.4

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#3

Chloromethane

Concen: 2.333 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU039645.D

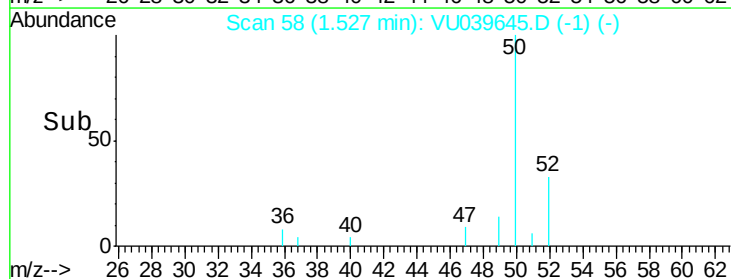
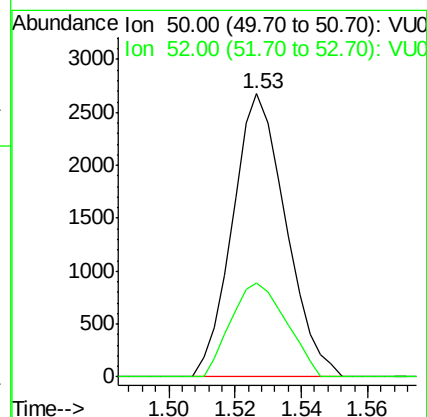
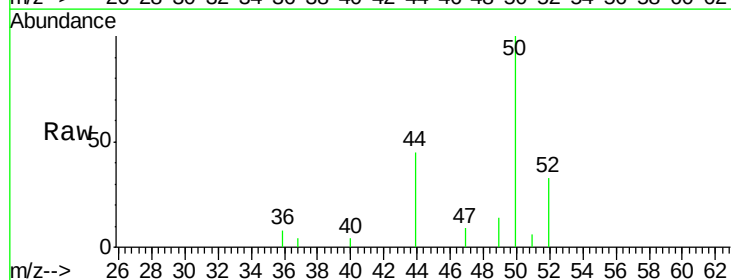
Acq: 23 Jul 2020 19:03

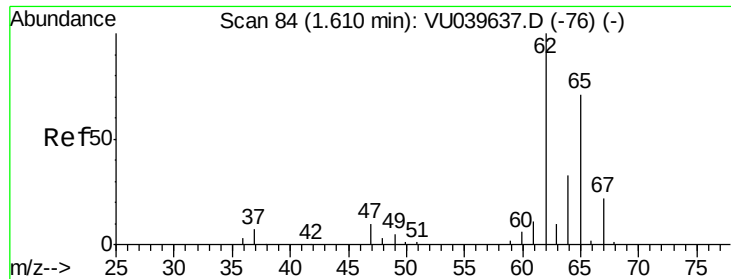
Tgt Ion: 50 Resp: 2990

Ion Ratio Lower Upper

50 100

52 33.4 24.0 44.6





#5

Vinyl chloride

Concen: 2.459 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU039645.D

Acq: 23 Jul 2020 19:03

Instrument :

MSVOA_U

ClientSampled :

MDL06

Tot Ion: 62 Resp: 3202

Ion Ratio Lower Upper

62 100

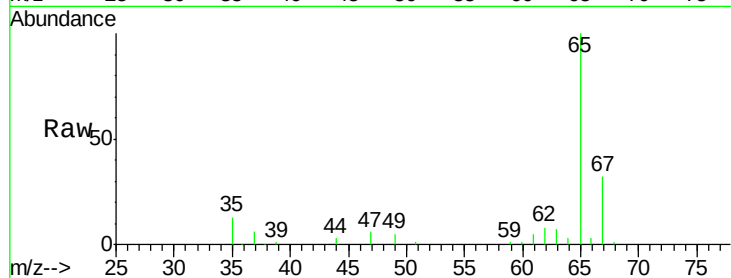
64 42.4 22.8 42.4#

Manual Integrations

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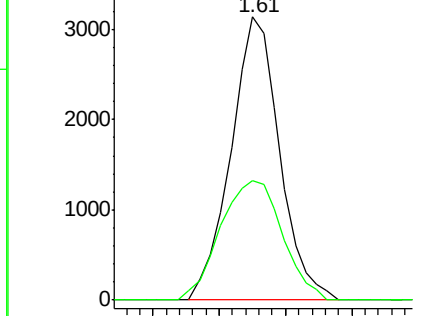
sam

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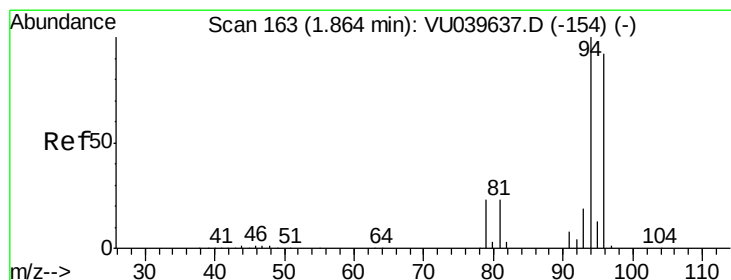
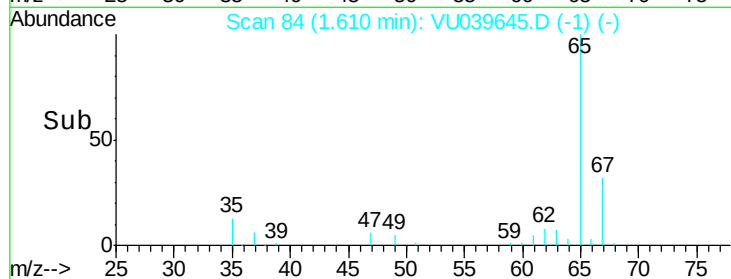


Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



Time-->



#6

Bromomethane

Concen: 2.733 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU039645.D

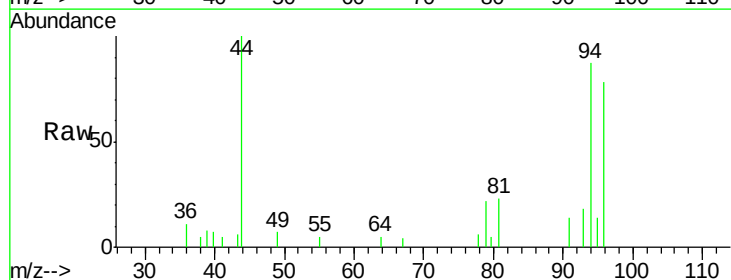
Acq: 23 Jul 2020 19:03

Tgt Ion: 94 Resp: 2674

Ion Ratio Lower Upper

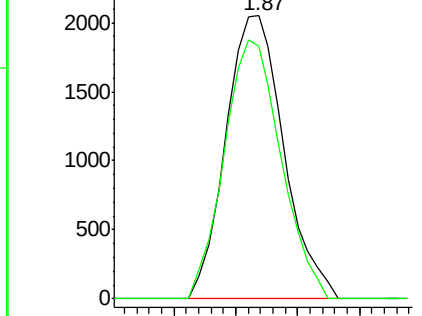
94 100

96 89.4 65.7 122.1

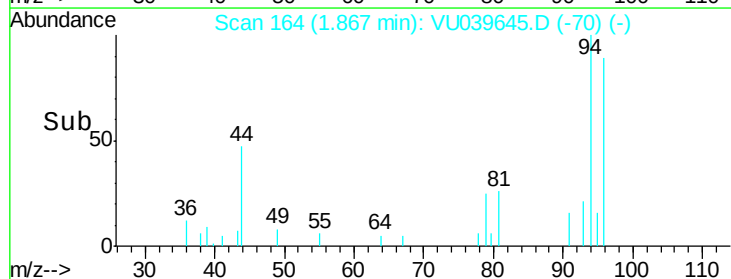


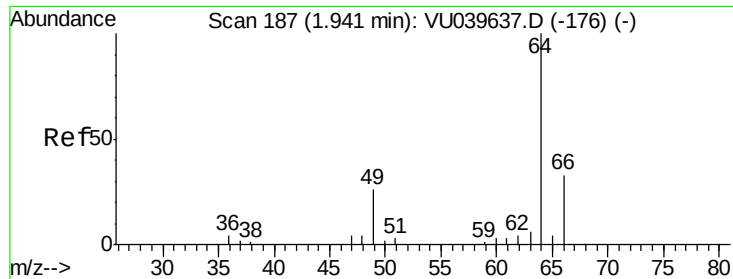
Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0



Time-->





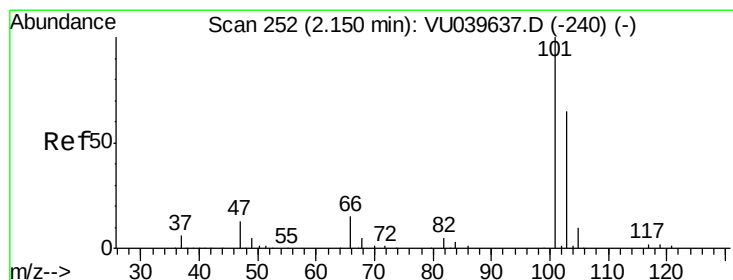
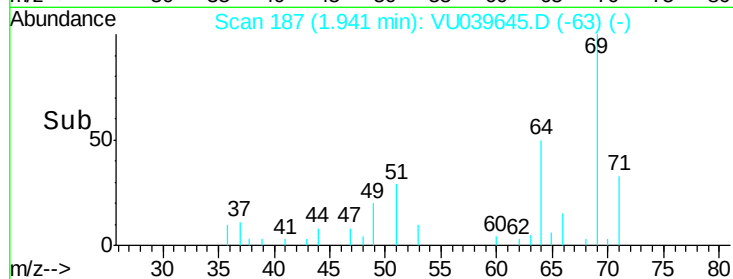
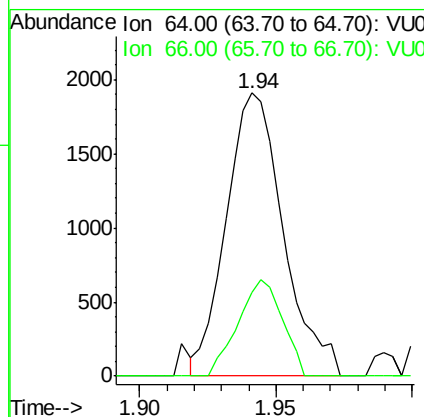
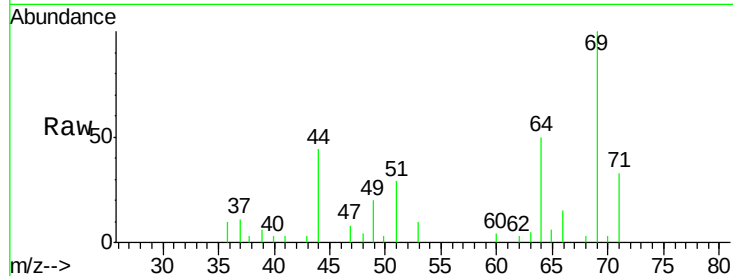
#8
Chloroethane
Concen: 2.399 ug/L
RT: 1.94 min Scan# 187
Delta R.T. -0.00 min
Lab File: VU039645.D
Acq: 23 Jul 2020 19:03

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Tot Ion: 64 Resp: 2778
Ion Ratio Lower Upper
64 100
66 29.4 22.7 42.1

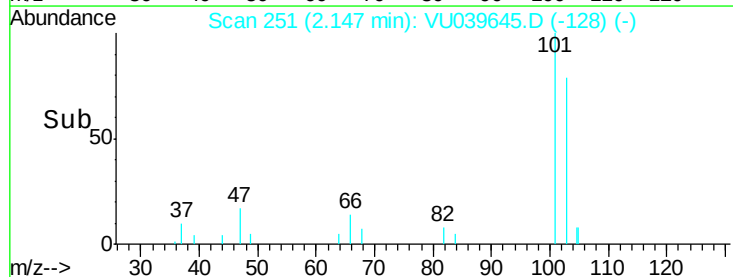
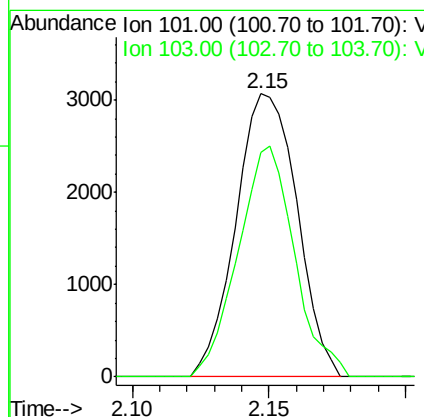
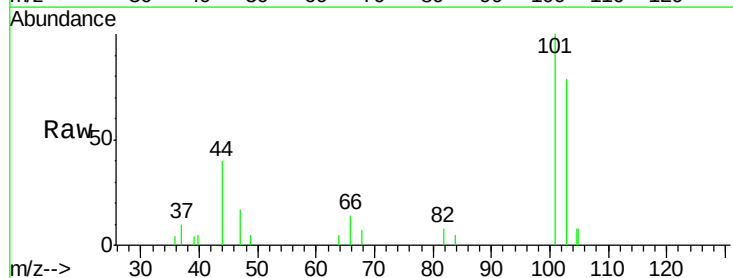
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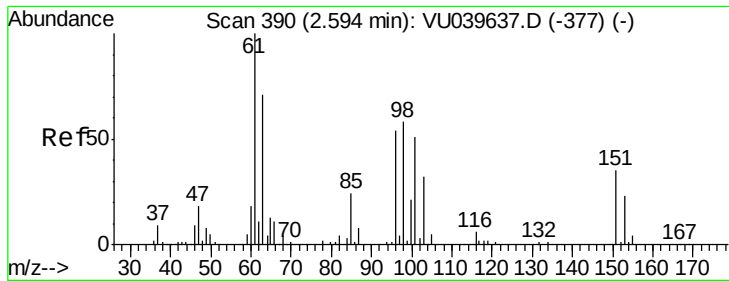
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#9
Trichlorofluoromethane
Concen: 2.077 ug/L
RT: 2.15 min Scan# 251
Delta R.T. -0.00 min
Lab File: VU039645.D
Acq: 23 Jul 2020 19:03

Tgt Ion: 101 Resp: 4780
Ion Ratio Lower Upper
101 100
103 75.0 52.8 79.2





#10

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

Concen: 2.776 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.00 min

Lab File: VU039645.D

Acq: 23 Jul 2020 19:03

Instrument :

MSVOA_U

ClientSampled :

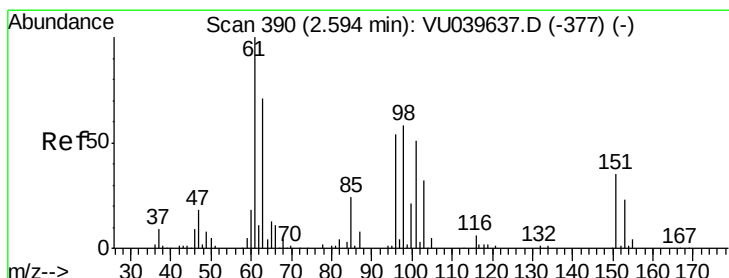
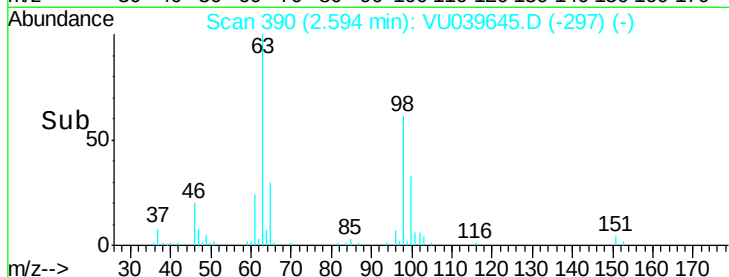
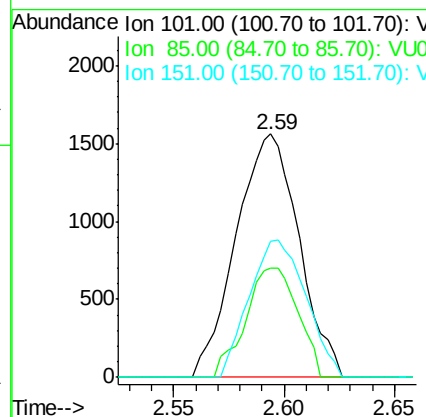
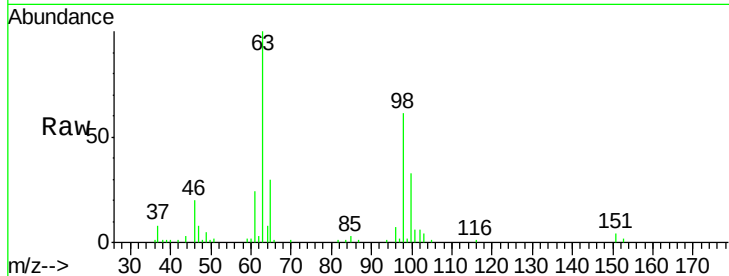
MDL06

Tot Ion:	101	Resp:	3075
Ion Ratio	Lower	Upper	
101	100		
85	37.4	39.7	59.5#
151	51.0	57.4	86.2#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 2.780 ug/L

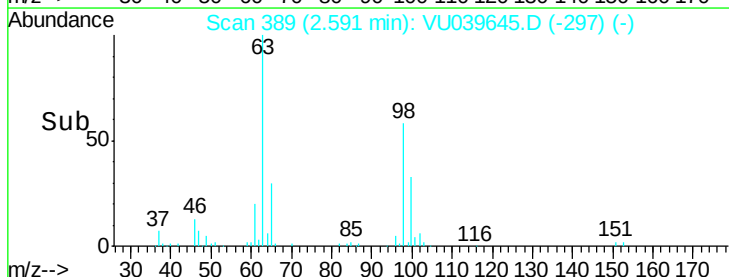
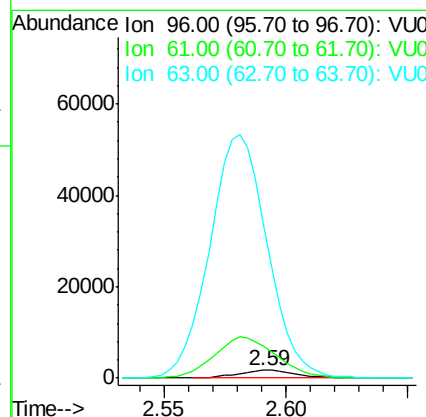
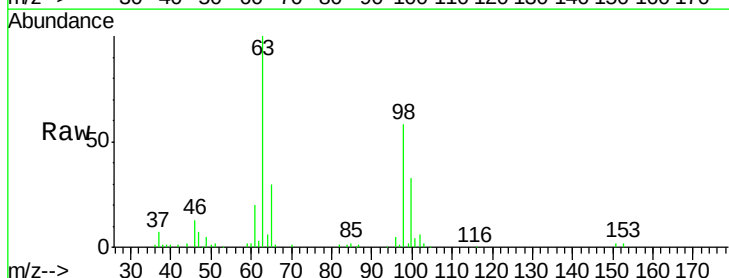
RT: 2.59 min Scan# 389

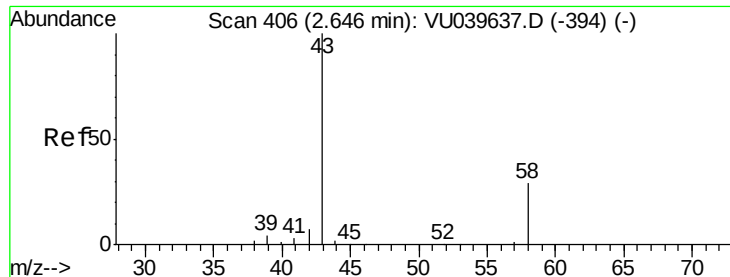
Delta R.T. -0.00 min

Lab File: VU039645.D

Acq: 23 Jul 2020 19:03

Tgt Ion:	96	Resp:	2872
Ion Ratio	Lower	Upper	
96	100		
61	402.5	136.6	253.6#
63	1978.1	97.2	180.6#





#13

Acetone

Concen: 4.343 ug/L

RT: 2.65 min Scan# 407

Delta R.T. 0.00 min

Lab File: VU039645.D

Acq: 23 Jul 2020 19:03

Instrument :

MSVOA_U

ClientSampleId :

MDL06

Tot Ion: 43 Resp: 3934

Ion Ratio Lower Upper

43 100

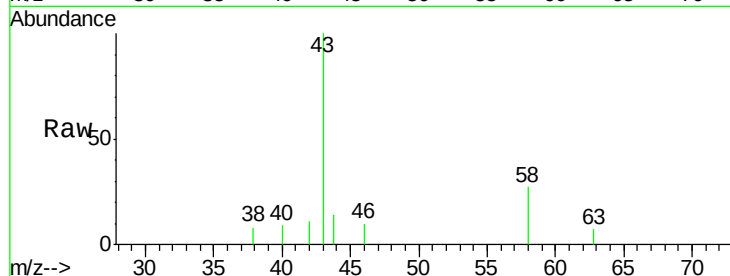
58 23.3 0.0 59.4

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VU039645.D (-313) (-)

Ion 58.00 (57.70 to 58.70): VU039645.D (-313) (-)

2.65

2000

1500

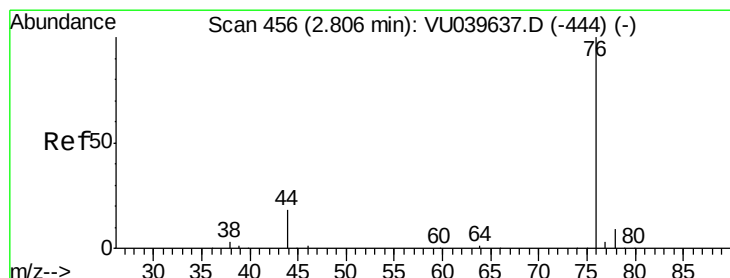
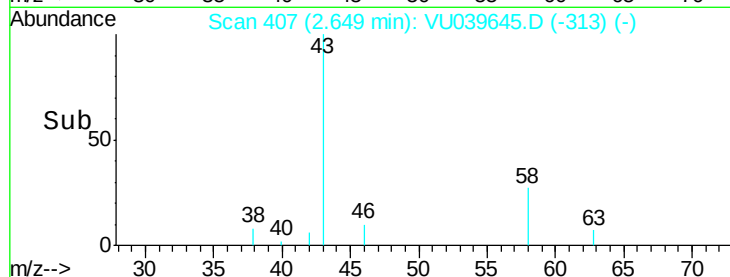
1000

500

0

2.60 2.65 2.70

Time-->



#14

Carbon disulfide

Concen: 2.132 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU039645.D

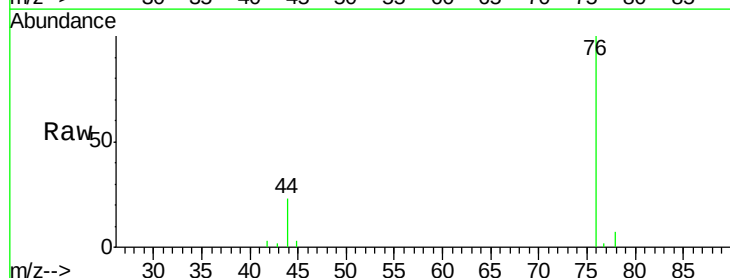
Acq: 23 Jul 2020 19:03

Tgt Ion: 76 Resp: 7048

Ion Ratio Lower Upper

76 100

78 6.7 7.3 10.9#



Abundance Ion 76.00 (75.70 to 76.70): VU039645.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VU039645.D (-363) (-)

2.81

5000

4000

3000

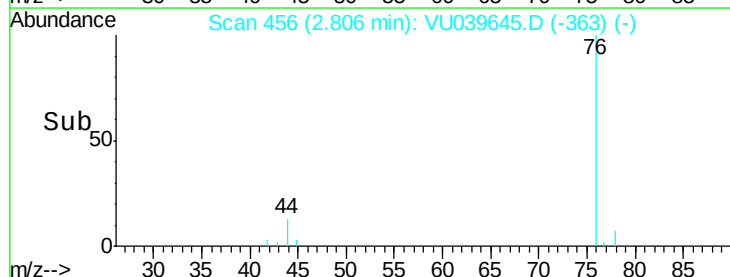
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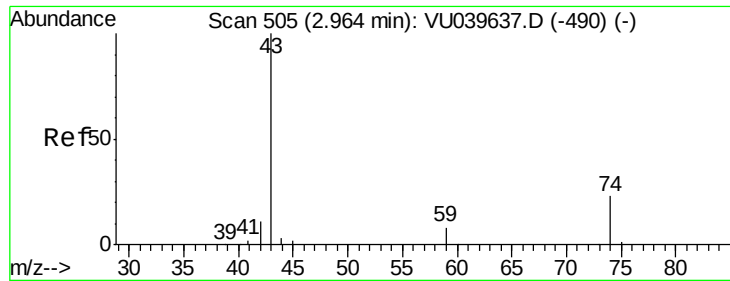
1000

0

2.75 2.80 2.85

Time-->





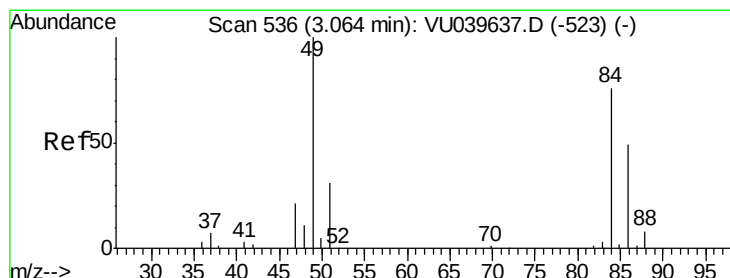
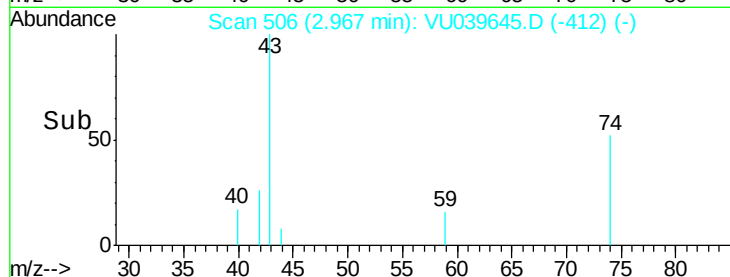
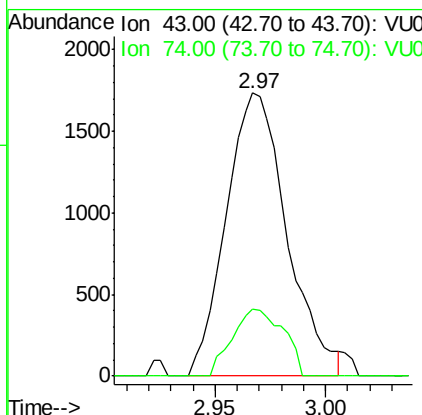
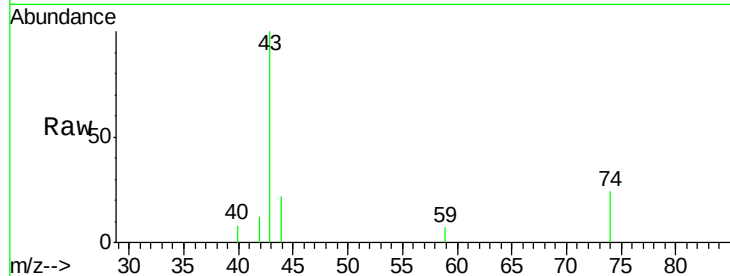
#15
Methyl Acetate
Concen: 2.038 ug/L
RT: 2.97 min Scan# 506
Delta R.T. 0.00 min
Lab File: VU039645.D
Acq: 23 Jul 2020 19:03

Instrument :
MSVOA_U
ClientSampled :
MDL06

Tot Ion: 43 Resp: 3307
Ion Ratio Lower Upper
43 100
74 19.8 17.4 26.0

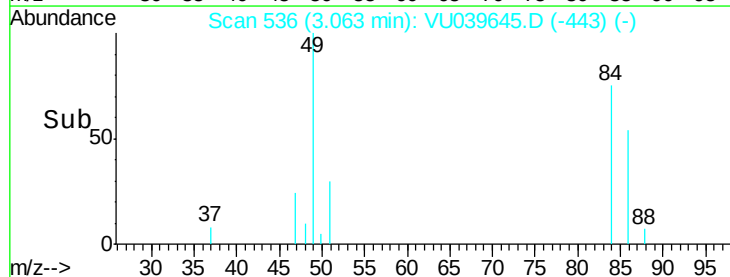
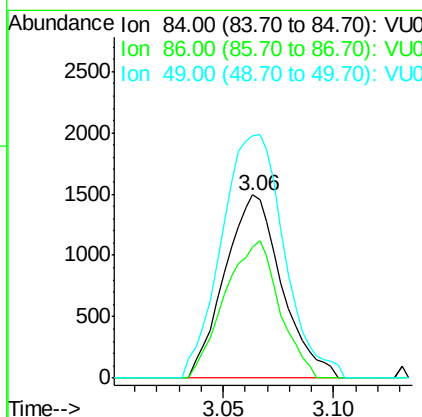
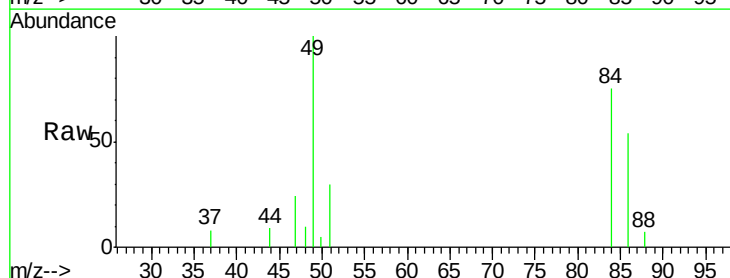
Manual Integrations
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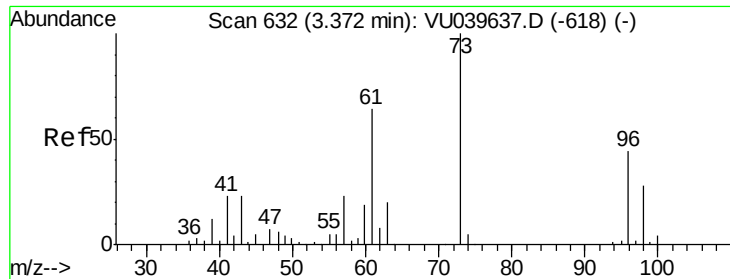
sam
7/30/2020 2:58:15 AM



#16
Methylene chloride
Concen: 2.161 ug/L
RT: 3.06 min Scan# 536
Delta R.T. -0.00 min
Lab File: VU039645.D
Acq: 23 Jul 2020 19:03

Tgt Ion: 84 Resp: 2674
Ion Ratio Lower Upper
84 100
86 71.8 46.2 85.8
49 132.7 97.3 180.7





#17

trans-1,2-Dichloroethene

Concen: 2.281 ug/L

RT: 3.37 min Scan# 632

Delta R.T. -0.00 min

Lab File: VU039645.D

Acq: 23 Jul 2020 19:03

Instrument :

MSVOA_U

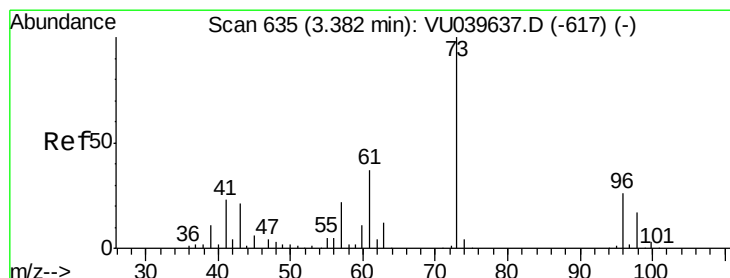
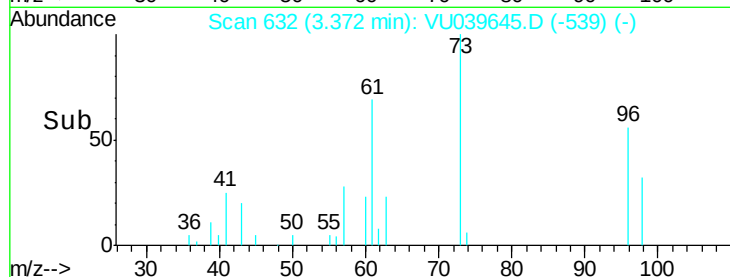
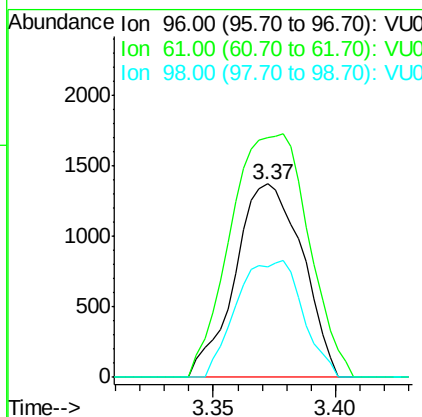
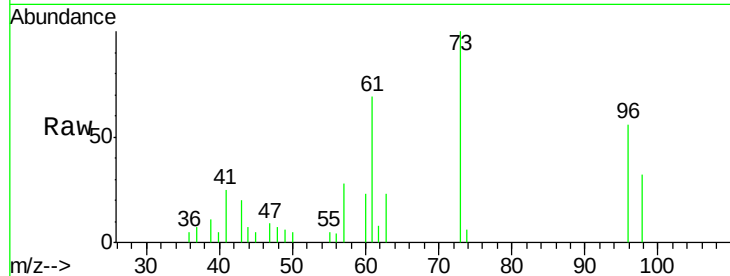
ClientSampled :

MDL06

Tot Ion:	96	Resp:	2622
Ion	Ratio	Lower	Upper
96	100		
61	123.6	106.7	198.1
98	57.2	44.3	82.3

Manual Integrations
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sam
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#18

Methyl tert-butyl Ether

Concen: 2.122 ug/L

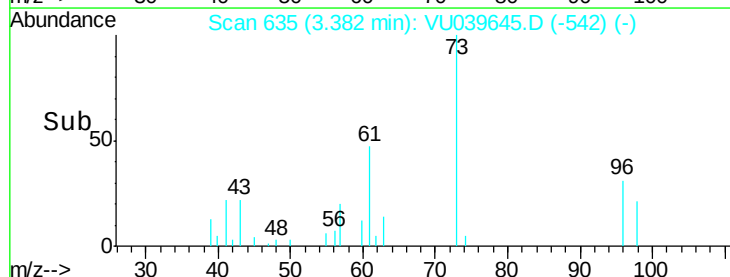
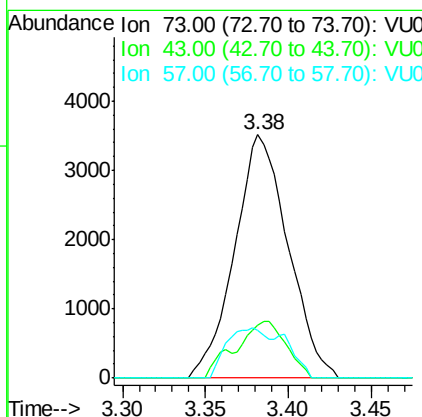
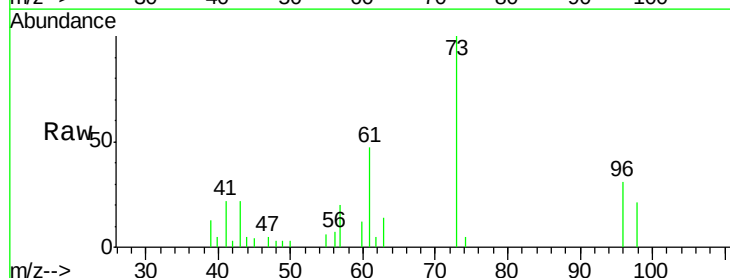
RT: 3.38 min Scan# 635

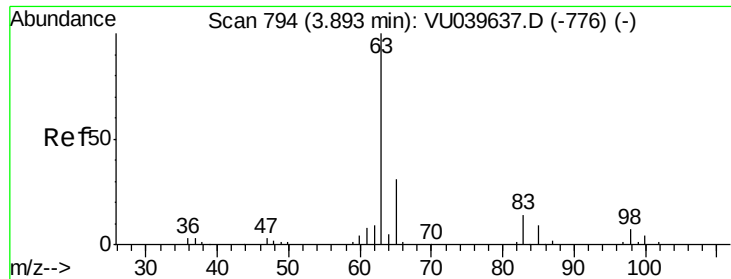
Delta R.T. -0.00 min

Lab File: VU039645.D

Acq: 23 Jul 2020 19:03

Tgt Ion:	73	Resp:	7884
Ion	Ratio	Lower	Upper
73	100		
43	18.2	18.2	27.2
57	16.7	17.4	26.2#





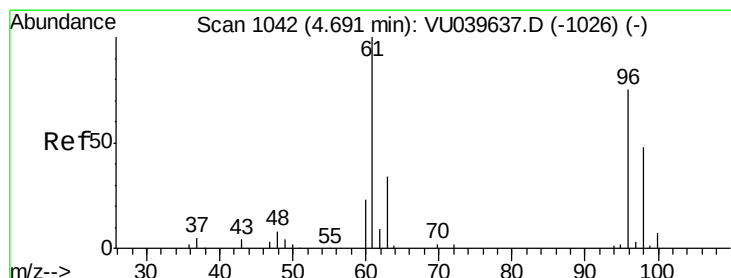
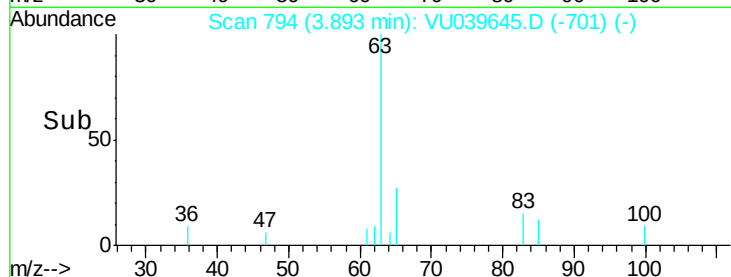
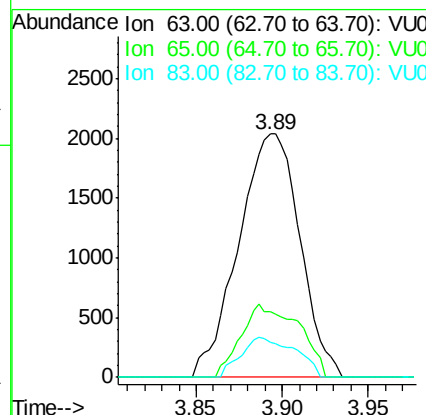
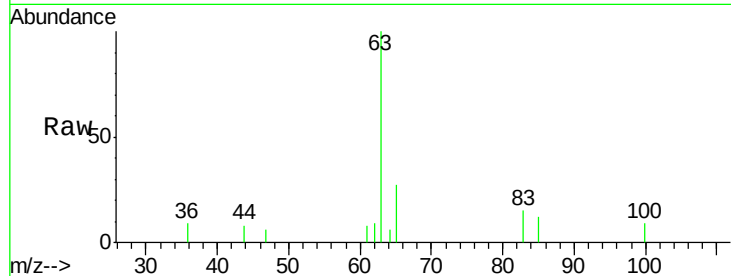
#19
 1,1-Dichloroethane
 Concen: 2.251 ug/L
 RT: 3.89 min Scan# 794
 Delta R.T. -0.00 min
 Lab File: VU039645.D
 Acq: 23 Jul 2020 19:03

Instrument :
 MSVOA_U
 ClientSampled :
 MDL06

Tot Ion	Ratio	Lower	Upper
63	100		
65	27.0	20.4	38.0
83	14.6	9.7	18.1

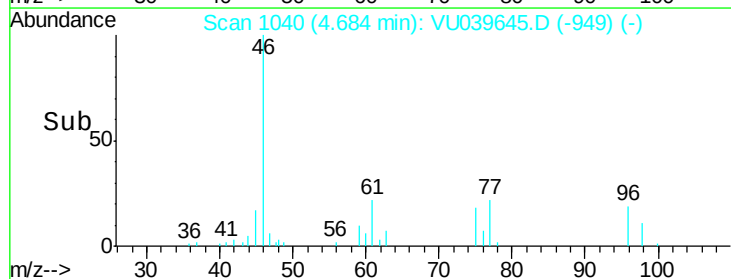
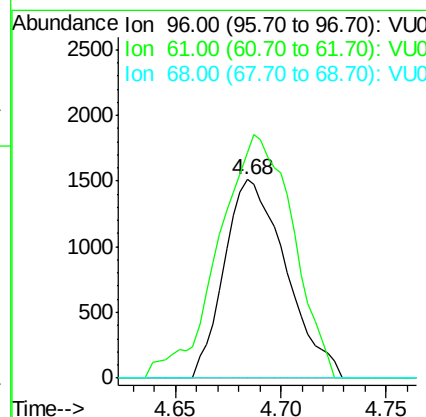
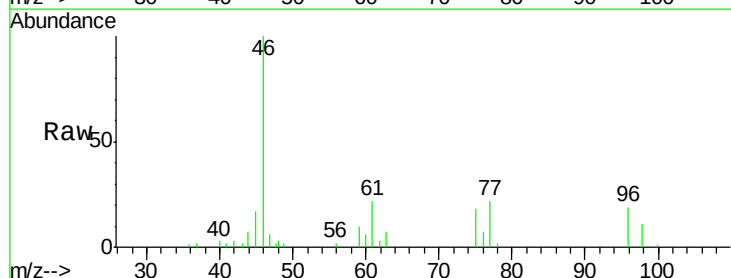
Manual Integrations
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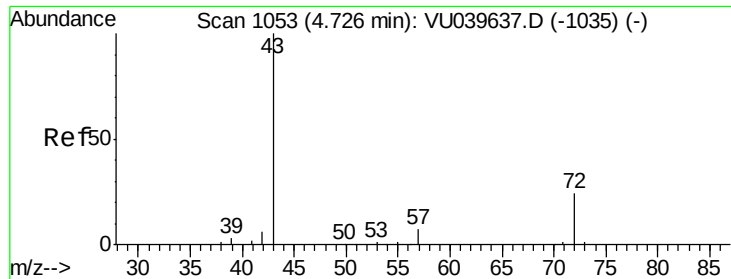
sam
 7/30/2020 2:58:15 AM



#20
 cis-1,2-Dichloroethene
 Concen: 2.335 ug/L
 RT: 4.68 min Scan# 1040
 Delta R.T. -0.01 min
 Lab File: VU039645.D
 Acq: 23 Jul 2020 19:03

Tgt Ion	Ratio	Lower	Upper
96	100		
61	114.0	94.0	174.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.387 ug/L

RT: 4.73 min Scan# 1054

Delta R.T. 0.00 min

Lab File: VU039645.D

Acq: 23 Jul 2020 19:03

Instrument :

MSVOA_U

ClientSampled :

MDL06

Tot Ion: 43 Resp: 5600

Ion Ratio Lower Upper

43 100

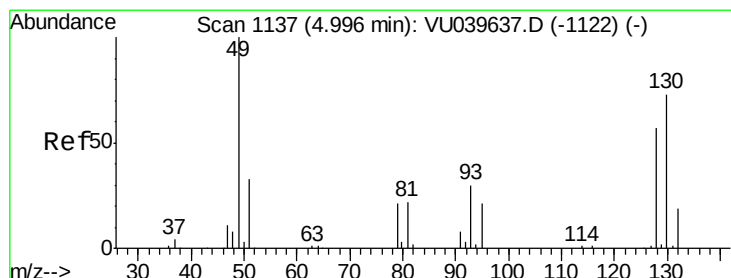
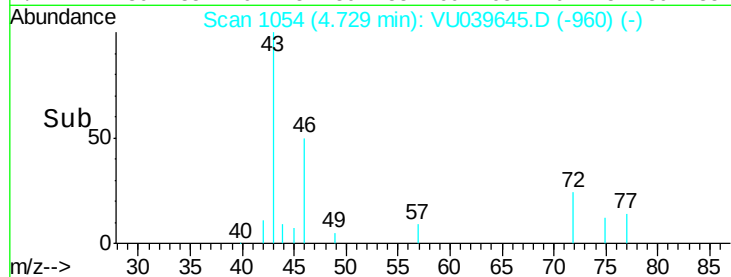
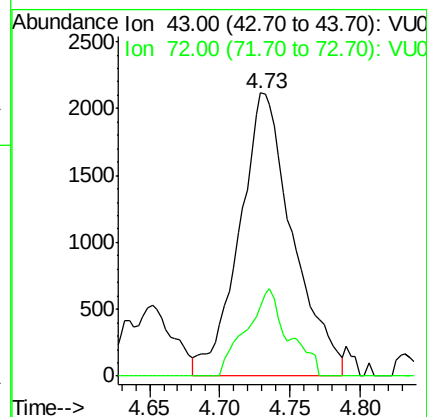
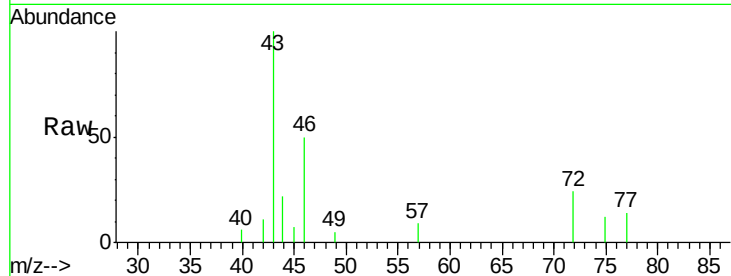
72 19.8 12.8 38.3

Manual Integrations

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#23

Bromochloromethane

Concen: 2.049 ug/L m

RT: 5.00 min Scan# 1139

Delta R.T. 0.01 min

Lab File: VU039645.D

Acq: 23 Jul 2020 19:03

Tgt Ion: 128 Resp: 1353

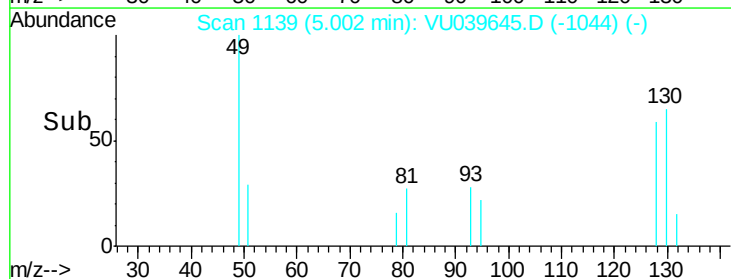
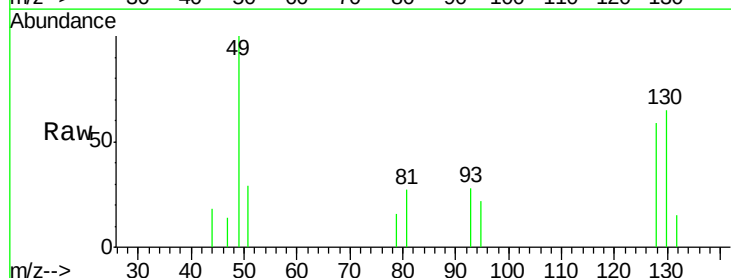
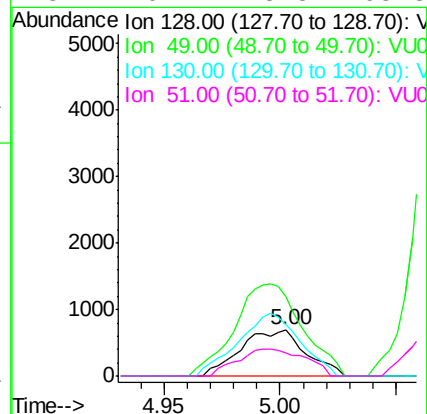
Ion Ratio Lower Upper

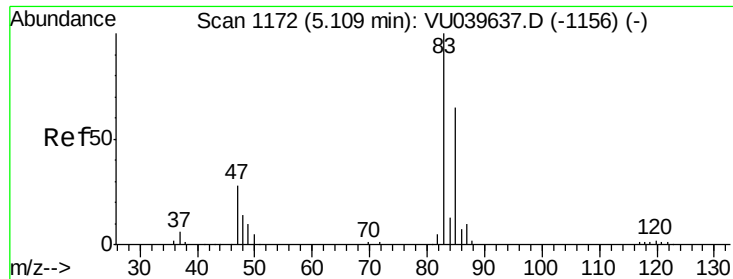
128 100

49 169.0 124.5 231.3

130 110.2 94.4 175.2

51 49.4 43.5 65.3





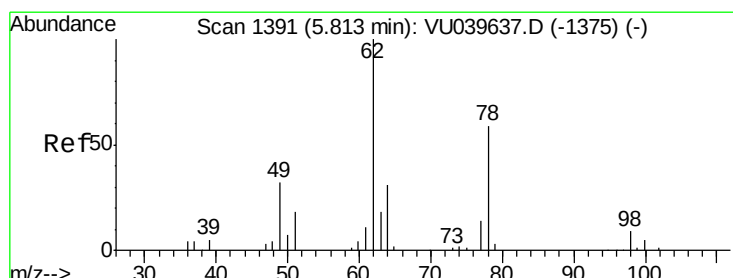
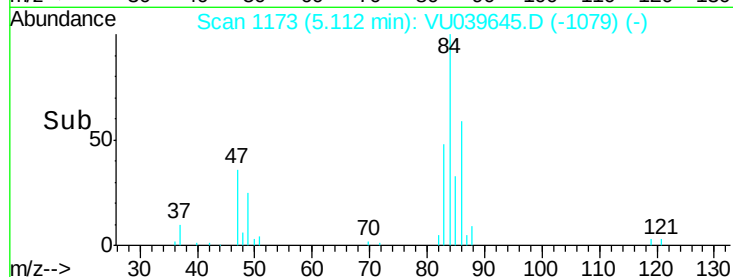
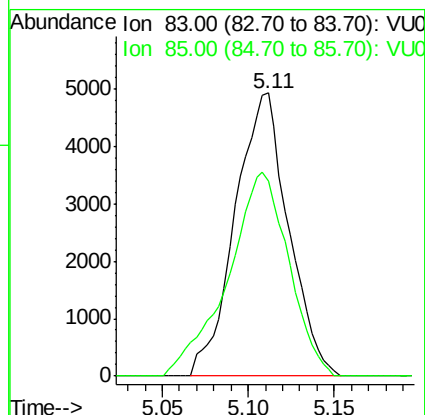
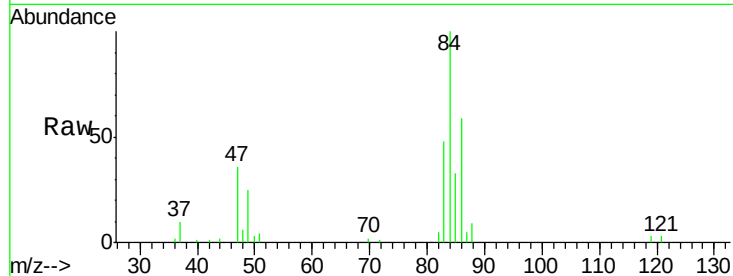
#25
Chloroform
Concen: 4.281 ug/L
RT: 5.11 min Scan# 1173
Delta R.T. 0.00 min
Lab File: VU039645.D
Acq: 23 Jul 2020 19:03

Instrument :
MSVOA_U
ClientSampled :
MDL06

Tot Ion	83	Resp	10651
Ion Ratio	100	Lower	Upper
85	68.8	45.6	84.6

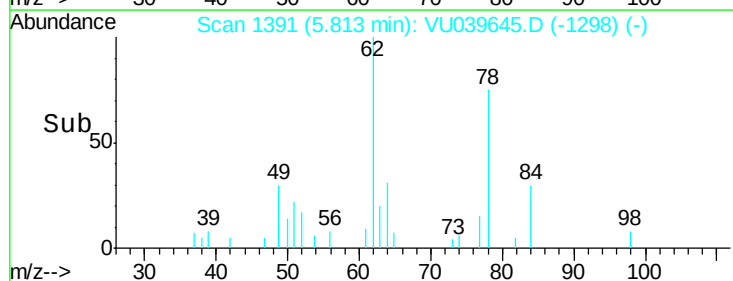
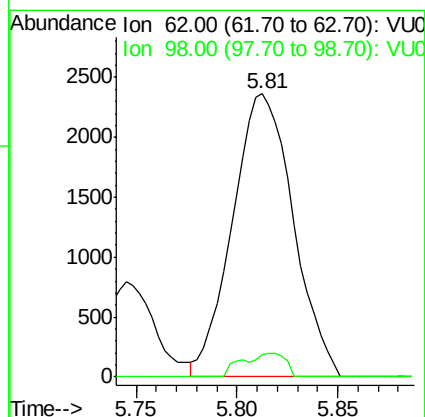
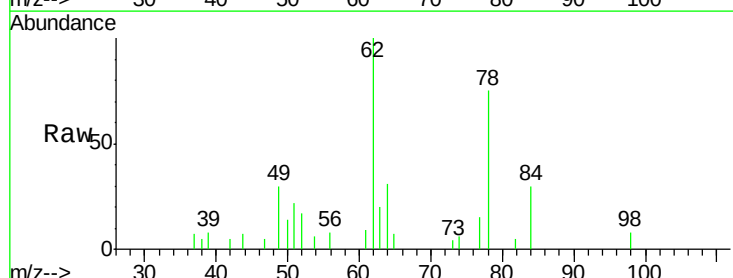
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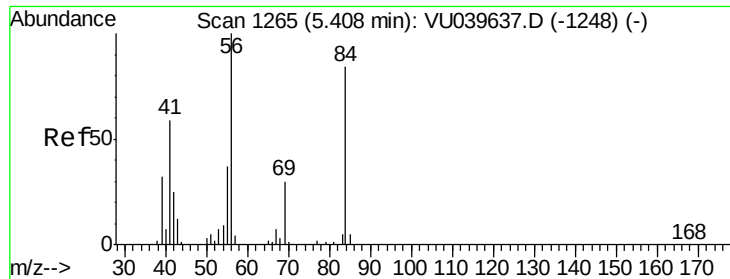
sam
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#27
1,2-Dichloroethane
Concen: 2.411 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. -0.00 min
Lab File: VU039645.D
Acq: 23 Jul 2020 19:03

Tgt Ion	62	Resp	4975
Ion Ratio	100	Lower	Upper
98	7.9	6.4	9.6





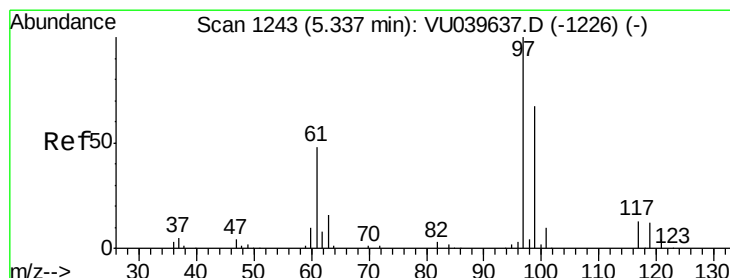
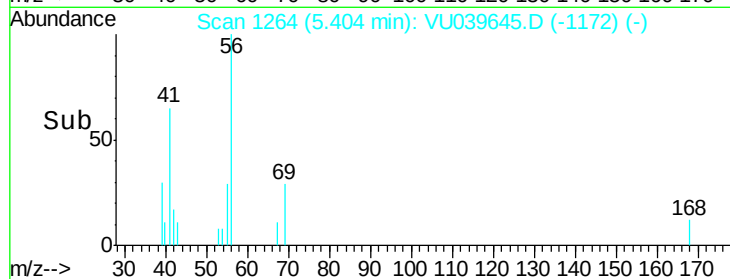
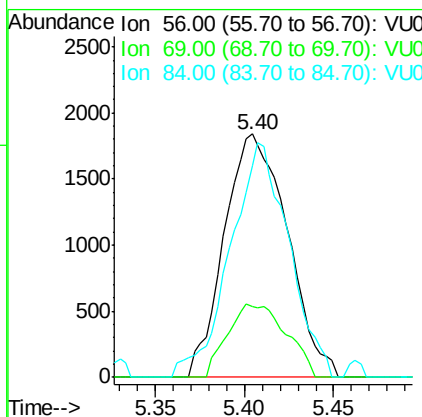
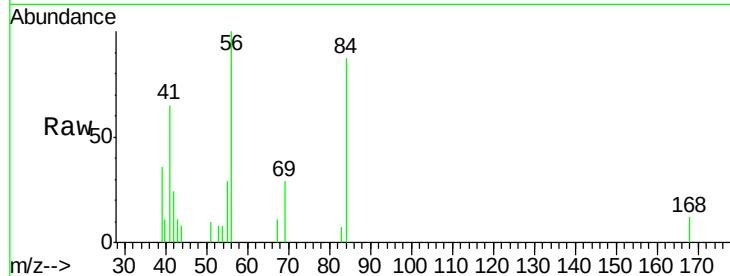
#29
Cyclohexane
Concen: 2.395 ug/L
RT: 5.40 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VU039645.D
Acq: 23 Jul 2020 19:03

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Tot Ion	Ratio	Lower	Upper
56	100		
69	14.9	23.9	35.9#
84	89.6	65.8	98.8

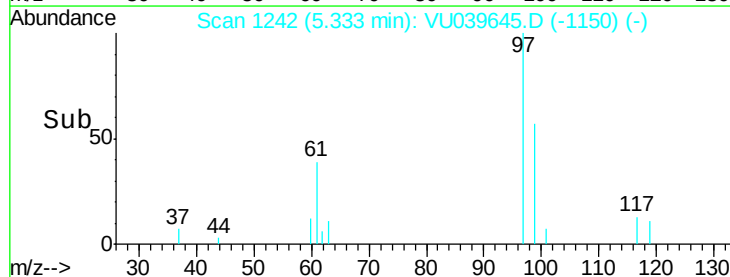
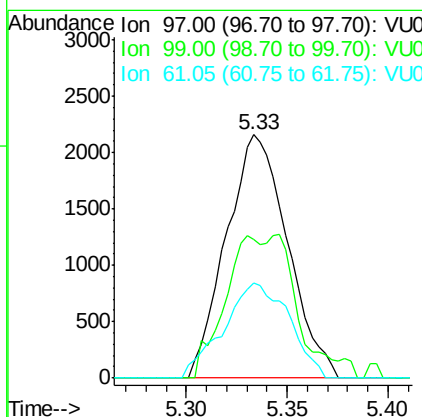
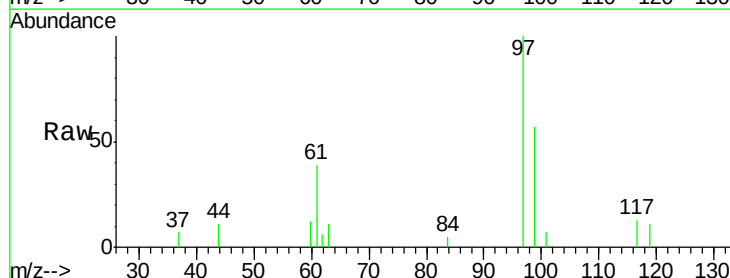
Manual Integrations
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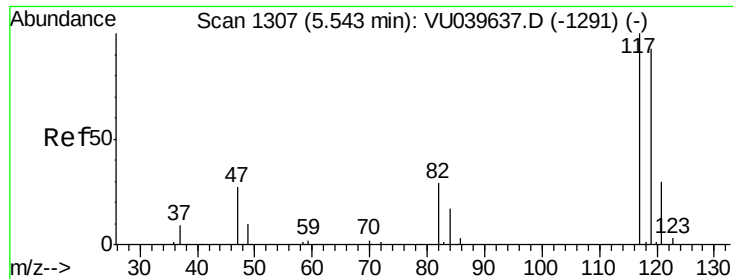
sam
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#30
1,1,1-Trichloroethane
Concen: 2.189 ug/L
RT: 5.33 min Scan# 1242
Delta R.T. -0.00 min
Lab File: VU039645.D
Acq: 23 Jul 2020 19:03

Tgt Ion	Ratio	Lower	Upper
97	100		
99	34.8	50.3	75.5#
61	41.8	36.0	54.0





#31

Carbon tetrachloride

Concen: 2.415 ug/L

RT: 5.55 min Scan# 1309

Delta R.T. 0.01 min

Lab File: VU039645.D

Acq: 23 Jul 2020 19:03

Instrument :

MSVOA_U

ClientSampleId :

MDL06

Tot Ion:117 Resp: 4183

Ion Ratio Lower Upper

117 100

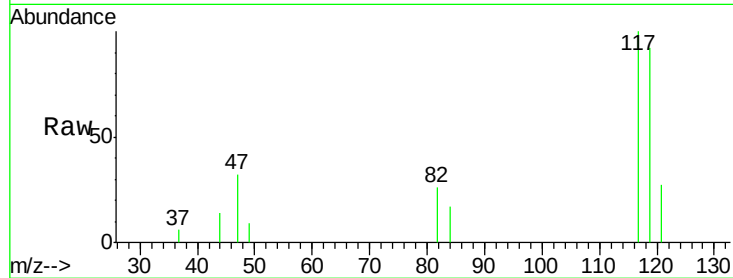
119 92.4 78.2 117.4

Manual Integrations

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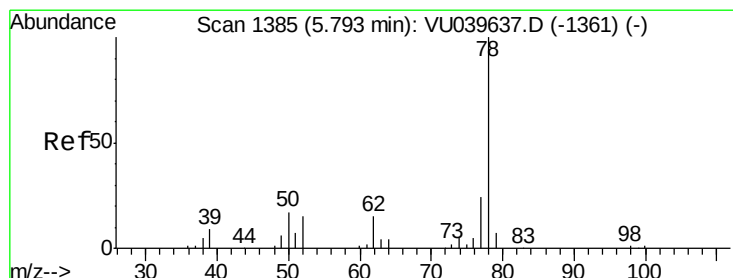
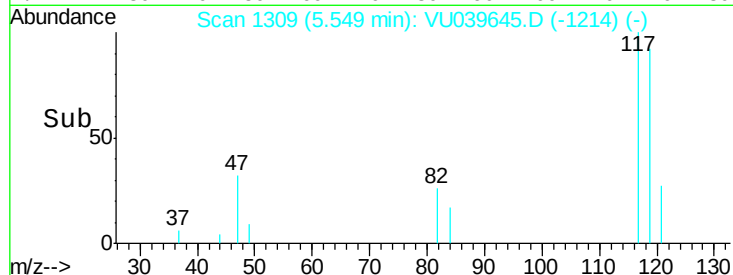
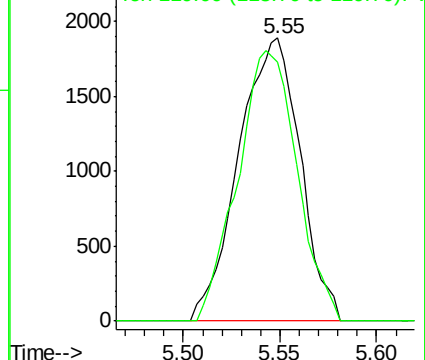
sam

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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: 2.362 ug/L

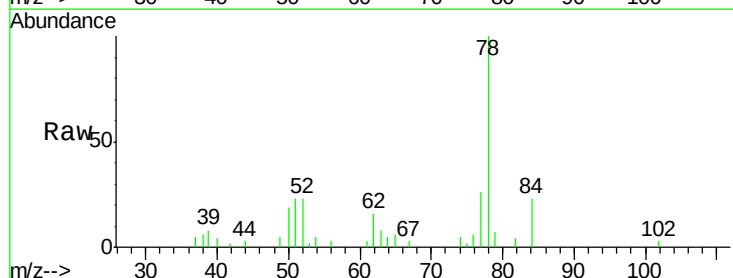
RT: 5.79 min Scan# 1385

Delta R.T. -0.00 min

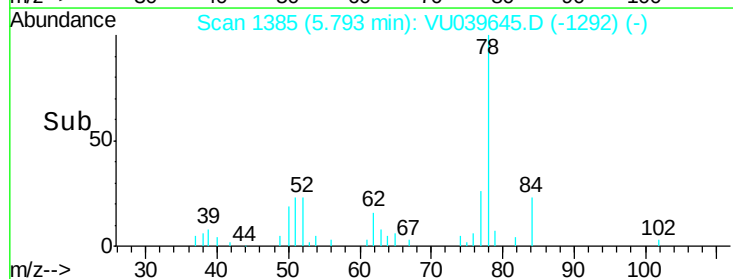
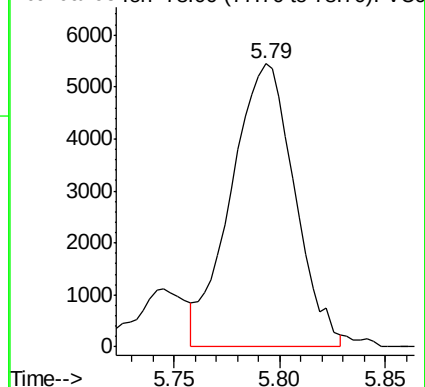
Lab File: VU039645.D

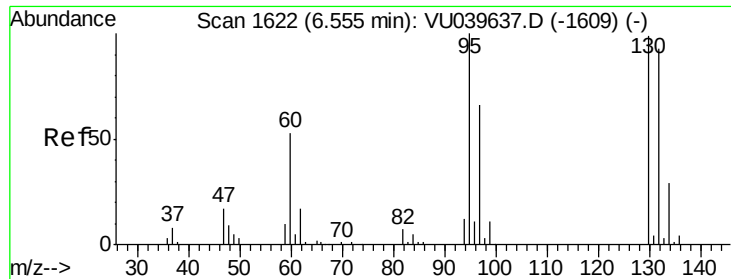
Acq: 23 Jul 2020 19:03

Tgt Ion: 78 Resp: 11359



Abundance Ion 78.00 (77.70 to 78.70): VU0





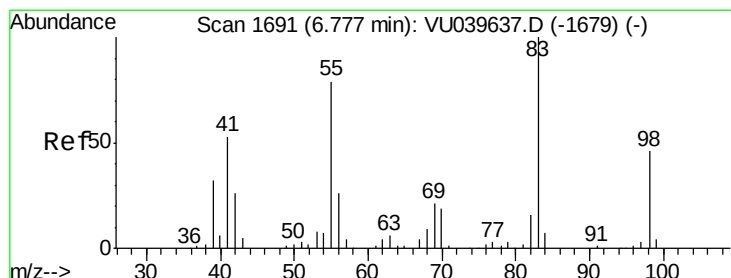
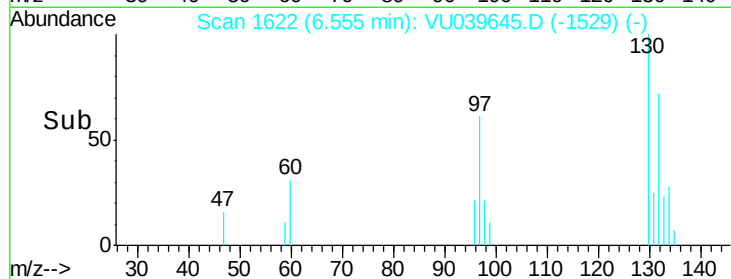
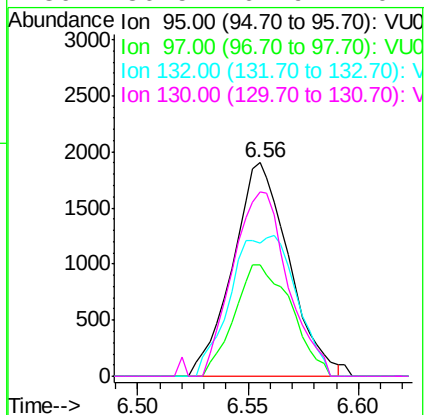
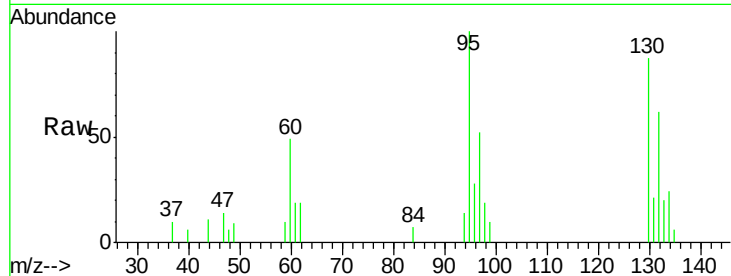
#34
 Trichloroethene
 Concen: 2.644 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. -0.00 min
 Lab File: VU039645.D
 Acq: 23 Jul 2020 19:03

Instrument :
 MSVOA_U
 ClientSampled :
 MDL06

Tot Ion: 95 Resp: 3363
 Ion Ratio Lower Upper
 95 100
 97 52.4 45.5 84.5
 132 81.9 65.0 120.6
 130 86.5 67.9 126.1

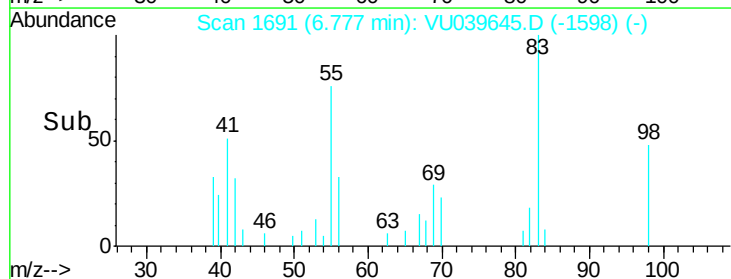
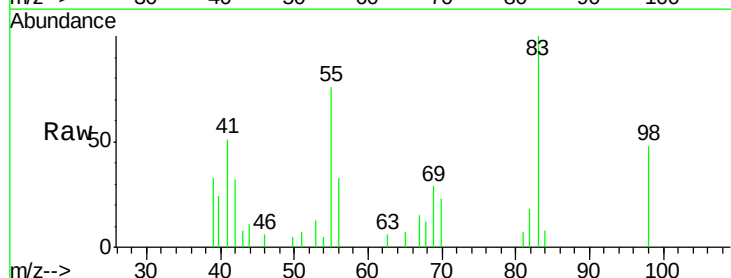
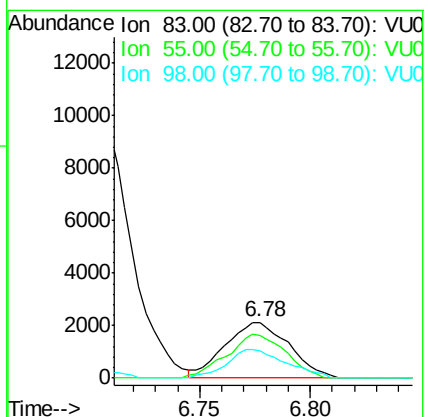
Manual Integrations
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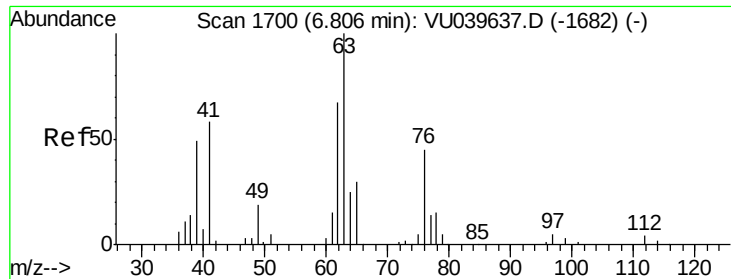
sam
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#35
 Methylcyclohexane
 Concen: 2.180 ug/L
 RT: 6.78 min Scan# 1691
 Delta R.T. -0.00 min
 Lab File: VU039645.D
 Acq: 23 Jul 2020 19:03

Tgt Ion: 83 Resp: 4286
 Ion Ratio Lower Upper
 83 100
 55 72.2 62.9 94.3
 98 47.2 36.3 54.5





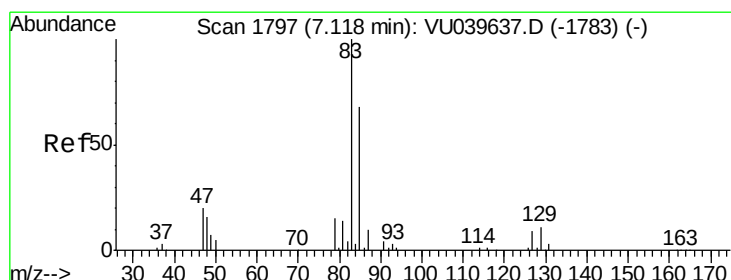
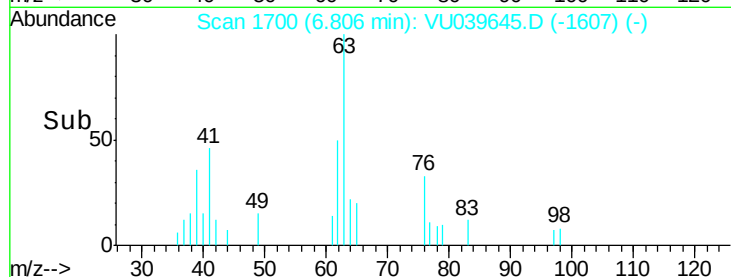
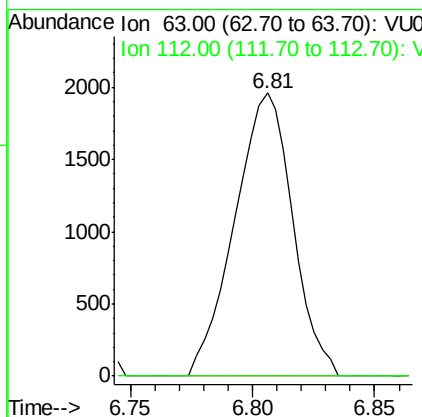
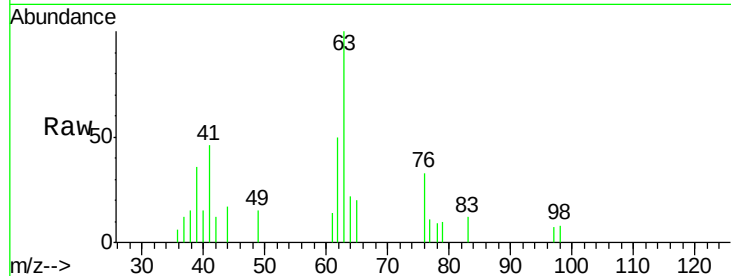
#37
 1,2-Dichloropropane
 Concen: 2.482 ug/L
 RT: 6.81 min Scan# 1700
 Delta R.T. -0.00 min
 Lab File: VU039645.D
 Acq: 23 Jul 2020 19:03

Instrument :
 MSVOA_U
 ClientSampled :
 MDL06

Tot Ion: 63 Resp: 3231
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.0 4.4#

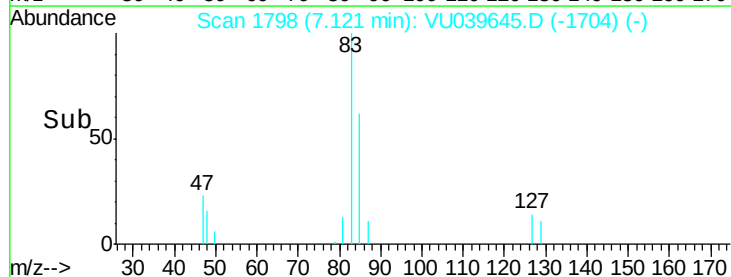
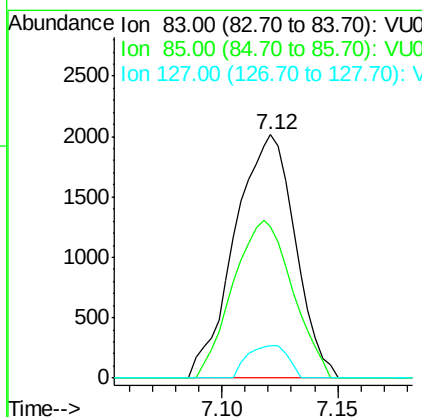
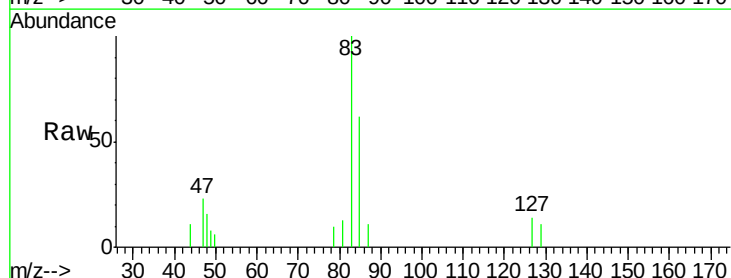
Manual Integrations
 APPROVED

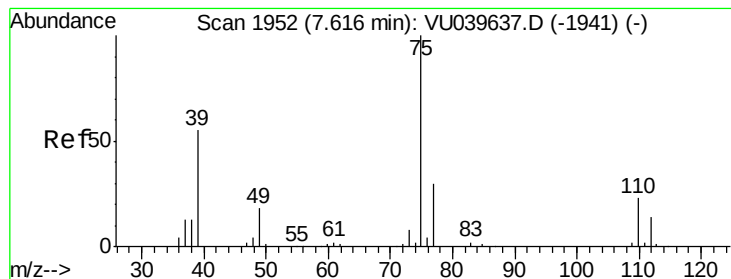
sam
 7/30/2020 2:58:15 AM



#38
 Bromodichloromethane
 Concen: 2.106 ug/L
 RT: 7.12 min Scan# 1798
 Delta R.T. 0.00 min
 Lab File: VU039645.D
 Acq: 23 Jul 2020 19:03

Tgt Ion: 83 Resp: 3640
 Ion Ratio Lower Upper
 83 100
 85 62.1 45.9 85.3
 127 13.6 7.4 11.2#





#39

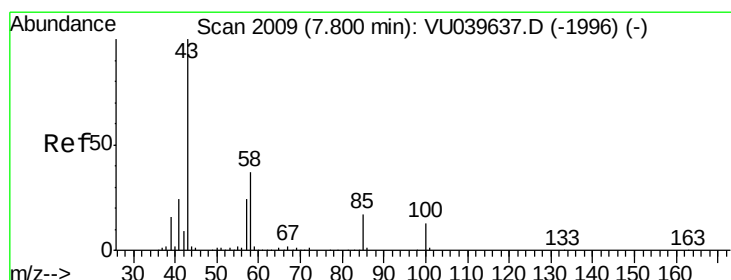
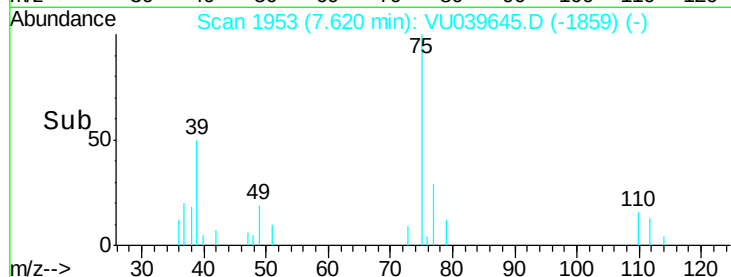
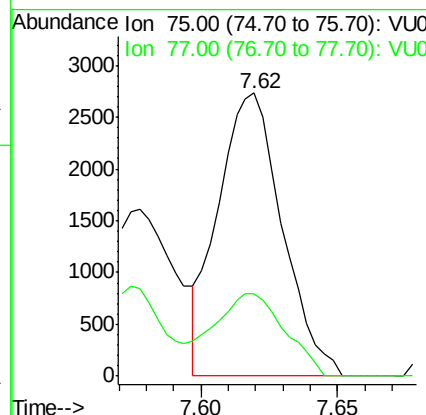
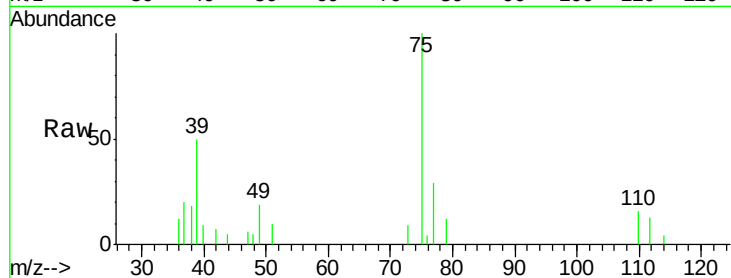
cis-1,3-Dichloropropene
Concen: 2.299 ug/L
RT: 7.62 min Scan# 1953
Delta R.T. 0.00 min
Lab File: VU039645.D
Acq: 23 Jul 2020 19:03

Instrument :
MSVOA_U
ClientSampled :
MDL06

Tot Ion: 75 Resp: 4472
Ion Ratio Lower Upper
75 100
77 29.1 21.8 40.6

Manual Integrations
APPROVED

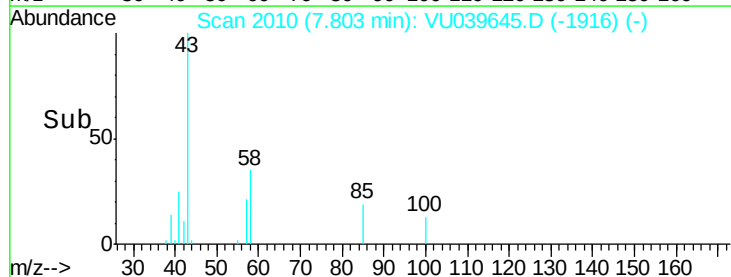
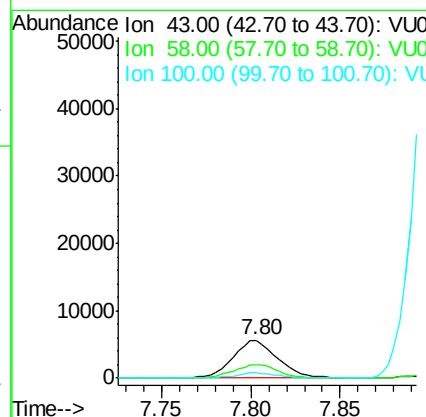
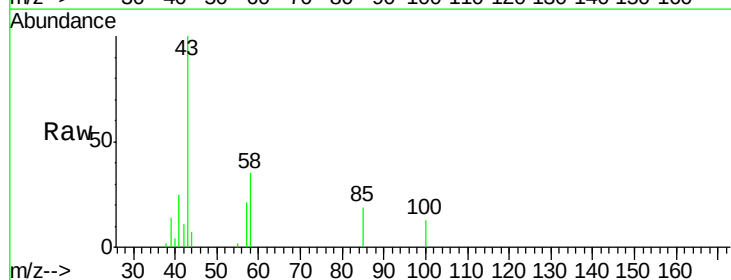
sam
7/30/2020 2:58:15 AM

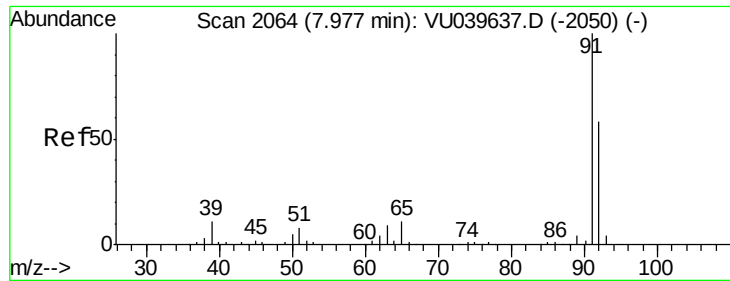


#40

4-Methyl-2-pentanone
Concen: 4.269 ug/L
RT: 7.80 min Scan# 2010
Delta R.T. 0.00 min
Lab File: VU039645.D
Acq: 23 Jul 2020 19:03

Tgt Ion: 43 Resp: 9682
Ion Ratio Lower Upper
43 100
58 35.4 29.1 43.7
100 12.8 10.6 16.0





#42

Toluene

Concen: 2.237 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VU039645.D

Acq: 23 Jul 2020 19:03

Instrument :

MSVOA_U

ClientSampleId :

MDL06

Tot Ion: 91 Resp: 11826

Ion Ratio Lower Upper

91 100

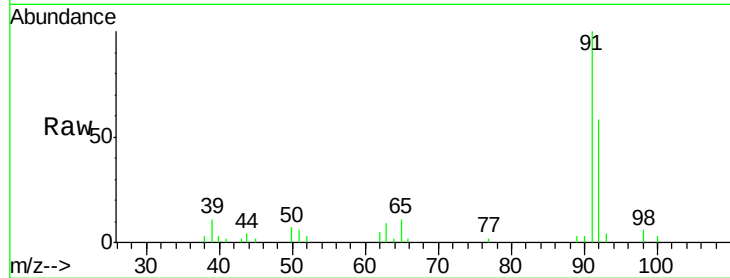
92 58.2 40.1 74.5

Manual Integrations

APPROVED

sam

7/30/2020 2:58:15 AM



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

8000

6000

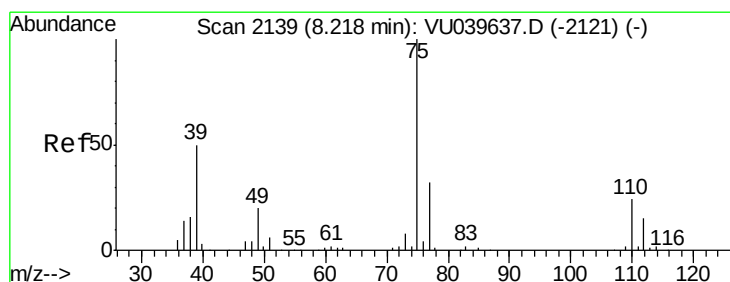
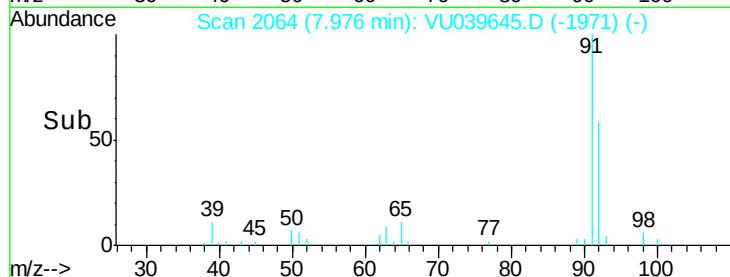
4000

2000

0

7.95 8.00

Time-->



#44

trans-1,3-Dichloropropene

Concen: 2.085 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. -0.00 min

Lab File: VU039645.D

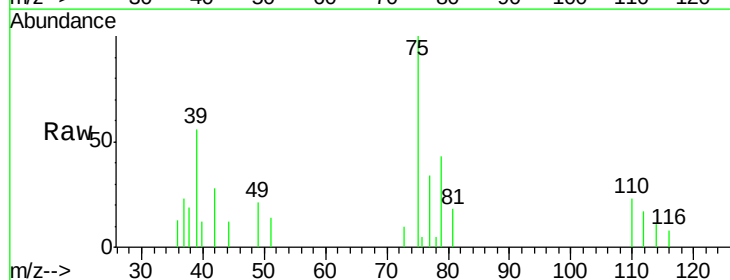
Acq: 23 Jul 2020 19:03

Tgt Ion: 75 Resp: 3972

Ion Ratio Lower Upper

75 100

77 34.3 22.7 42.1



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

2500

2000

1500

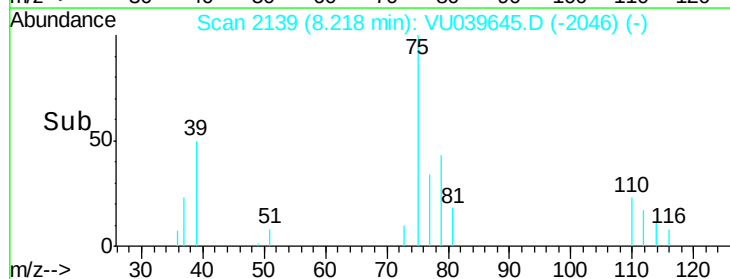
1000

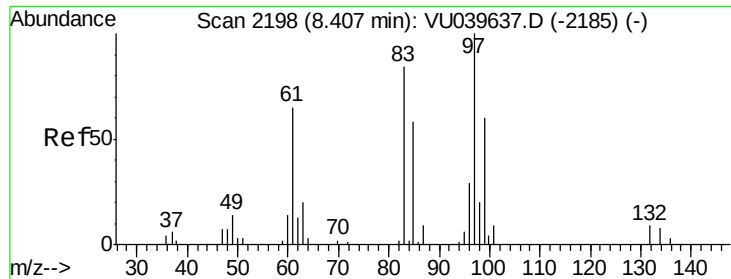
500

0

8.18 8.20 8.22 8.24 8.26

Time-->





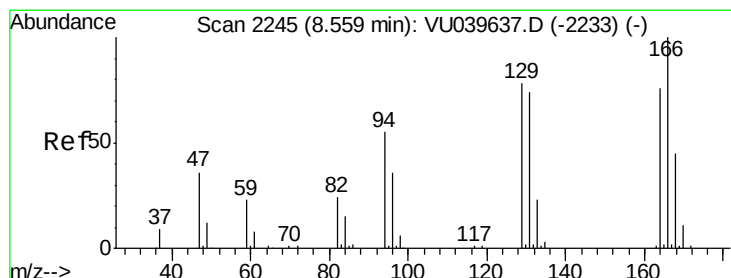
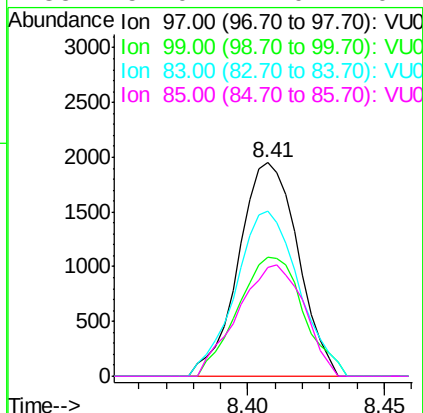
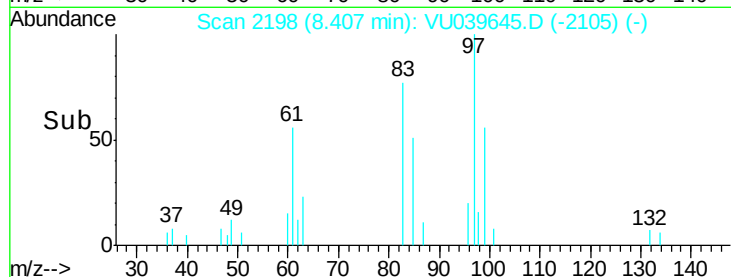
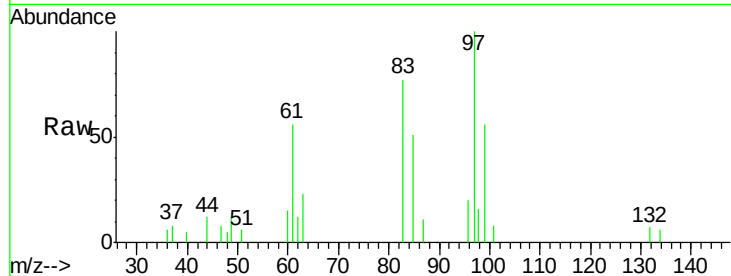
#45
 1,1,2-Trichloroethane
 Concen: 2.379 ug/L
 RT: 8.41 min Scan# 2198
 Delta R.T. -0.00 min
 Lab File: VU039645.D
 Acq: 23 Jul 2020 19:03

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tot Ion:	97	Resp:	2953
Ion	Ratio	Lower	Upper
97	100		
99	56.0	45.1	83.9
83	77.2	62.7	116.5
85	51.0	41.0	76.2

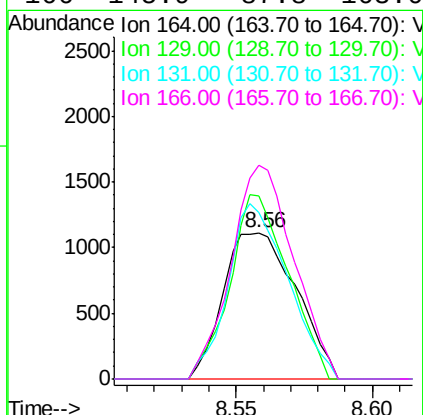
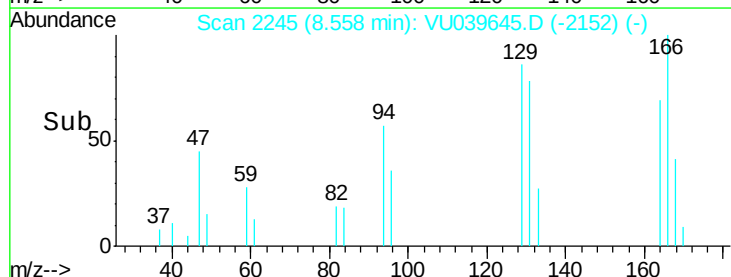
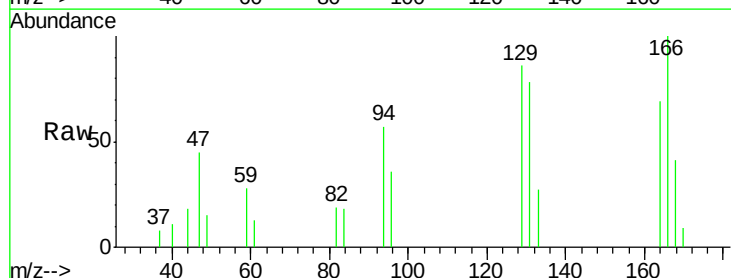
Manual Integrations
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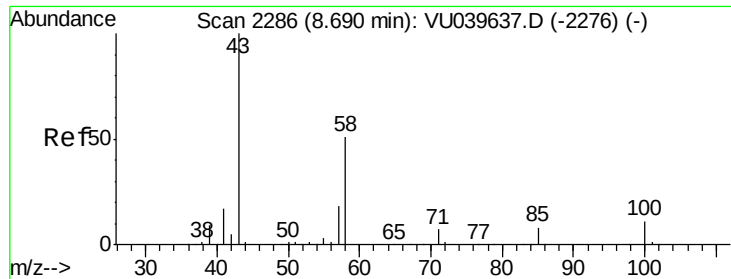
sam
 7/30/2020 2:58:15 AM



#46
 Tetrachloroethene
 Concen: 2.154 ug/L
 RT: 8.56 min Scan# 2245
 Delta R.T. -0.00 min
 Lab File: VU039645.D
 Acq: 23 Jul 2020 19:03

Tgt Ion:	164	Resp:	2072
Ion	Ratio	Lower	Upper
164	100		
129	125.0	71.1	132.1
131	113.3	70.3	130.5
166	145.9	87.8	163.0





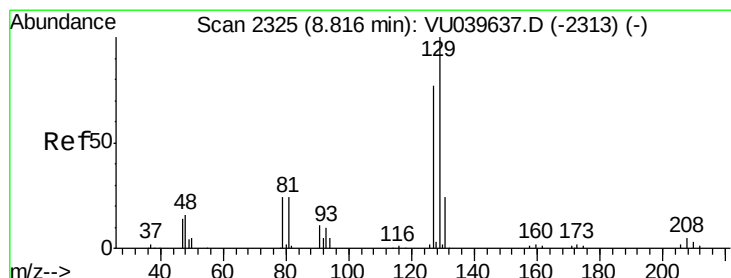
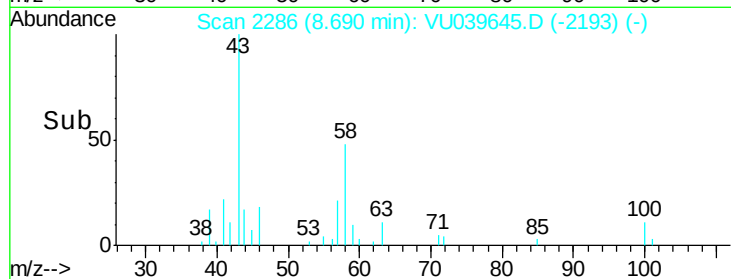
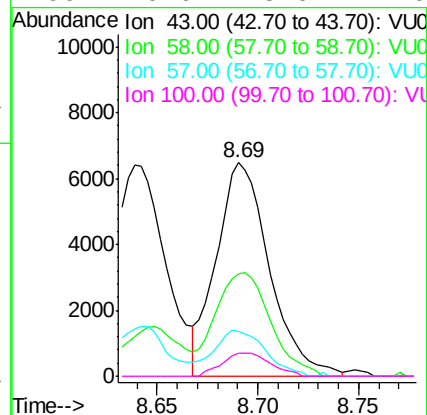
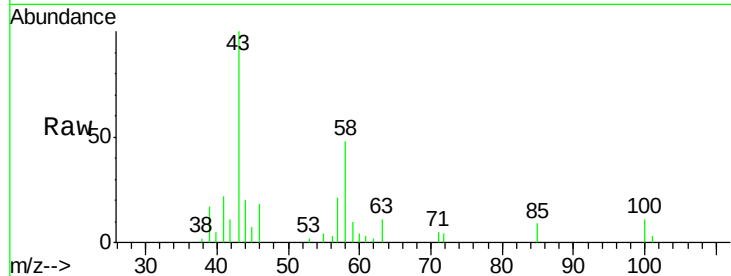
#48
2-Hexanone
Concen: 6.453 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. -0.00 min
Lab File: VU039645.D
Acq: 23 Jul 2020 19:03

Instrument :
MSVOA_U
ClientSampled :
MDL06

Tot Ion:	43	Resp:	11925
Ion	Ratio	Lower	Upper
43	100		
58	50.4	40.6	61.0
57	21.0	14.5	21.7
100	9.9	8.0	12.0

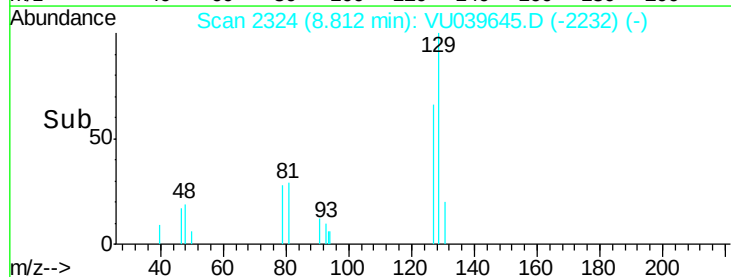
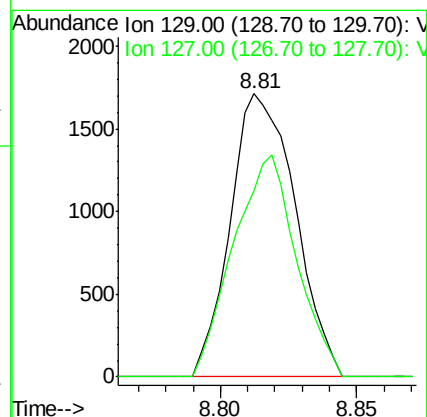
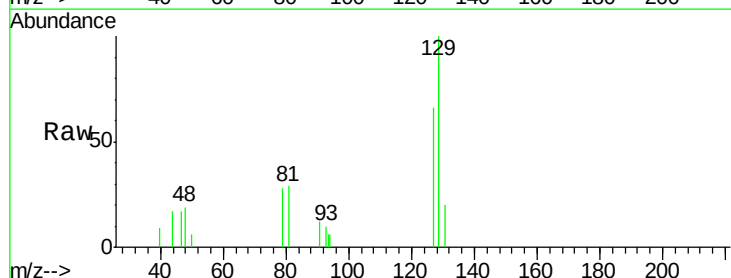
Manual Integrations
APPROVED

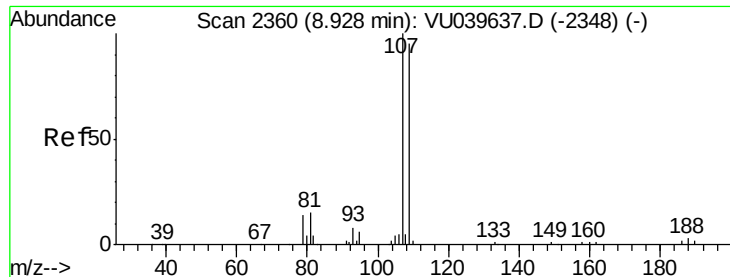
sam
7/30/2020 2:58:15 AM



#49
Dibromochloromethane
Concen: 2.014 ug/L
RT: 8.81 min Scan# 2324
Delta R.T. -0.00 min
Lab File: VU039645.D
Acq: 23 Jul 2020 19:03

Tgt Ion:	129	Resp:	2823
Ion	Ratio	Lower	Upper
129	100		
127	65.9	54.3	100.9





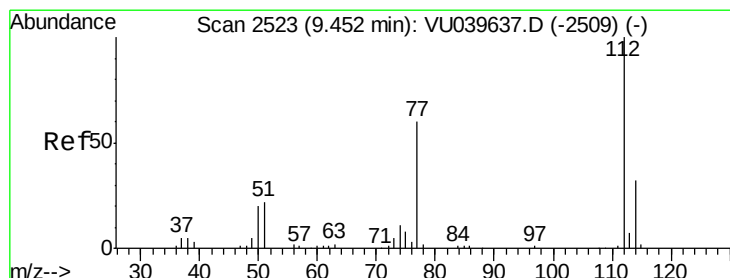
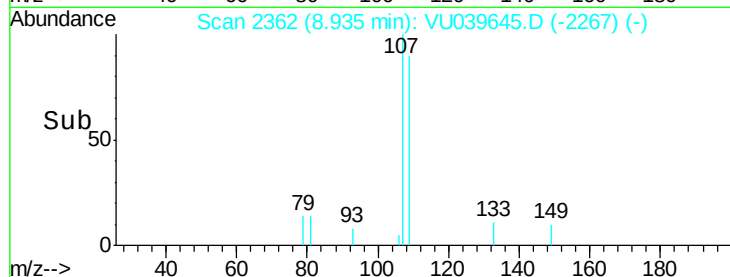
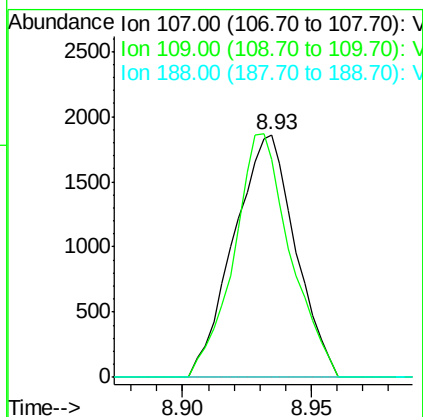
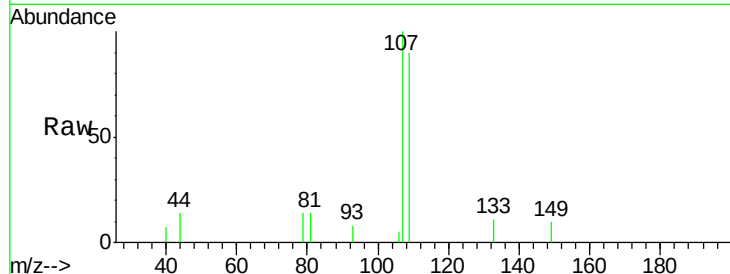
#50
 1,2-Dibromoethane
 Concen: 2.240 ug/L
 RT: 8.93 min Scan# 2362
 Delta R.T. 0.01 min
 Lab File: VU039645.D
 Acq: 23 Jul 2020 19:03

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tot Ion	Ratio	Lower	Upper
107	100		
109	89.6	66.8	124.2
188	0.0	3.0	4.4#

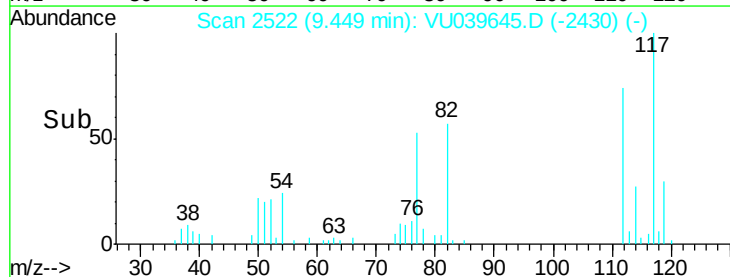
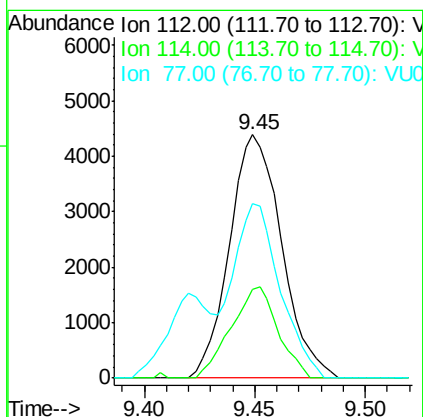
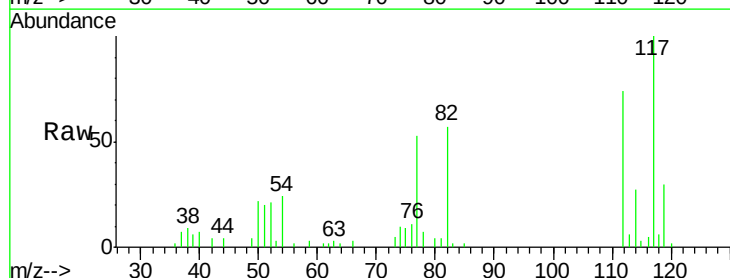
Manual Integrations
 APPROVED

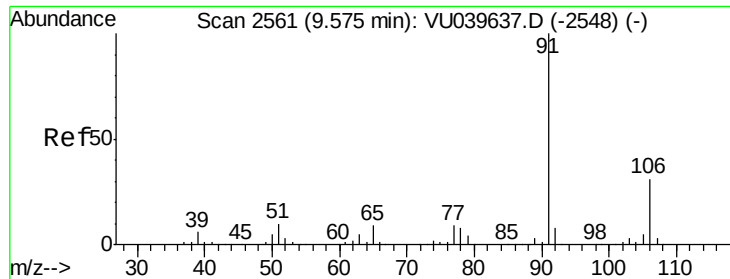
sam
 7/30/2020 2:58:15 AM



#51
 Chlorobenzene
 Concen: 2.144 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. -0.00 min
 Lab File: VU039645.D
 Acq: 23 Jul 2020 19:03

Tgt Ion	Ratio	Lower	Upper
112	100		
114	36.5	22.9	42.5
77	71.4	49.4	74.0





#52

Ethylbenzene

Concen: 2.156 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU039645.D

Acq: 23 Jul 2020 19:03

Instrument :

MSVOA_U

ClientSampled :

MDL06

Tot Ion: 91 Resp: 12597

Ion Ratio Lower Upper

91 100

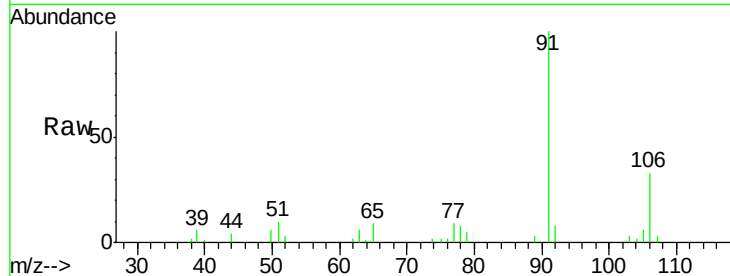
106 33.3 21.1 39.1

Manual Integrations

APPROVED

sam

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

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

9.57

8000

6000

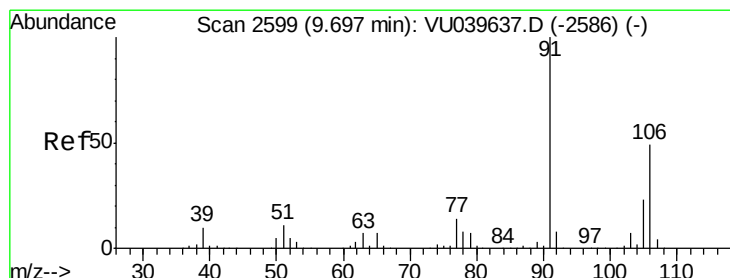
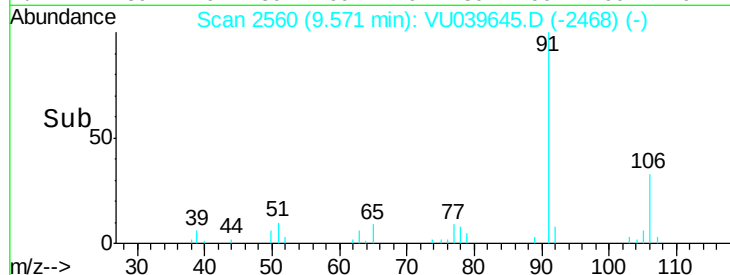
4000

2000

0

9.55 9.60

Time-->



#53

m,p-Xylene

Concen: 1.939 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. -0.00 min

Lab File: VU039645.D

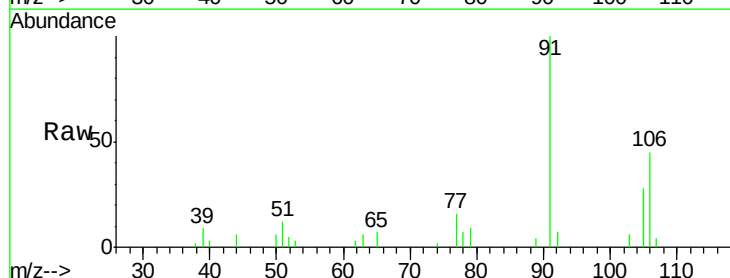
Acq: 23 Jul 2020 19:03

Tgt Ion: 106 Resp: 4271

Ion Ratio Lower Upper

106 100

91 220.7 149.7 277.9



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

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

9.70

6000

5000

4000

3000

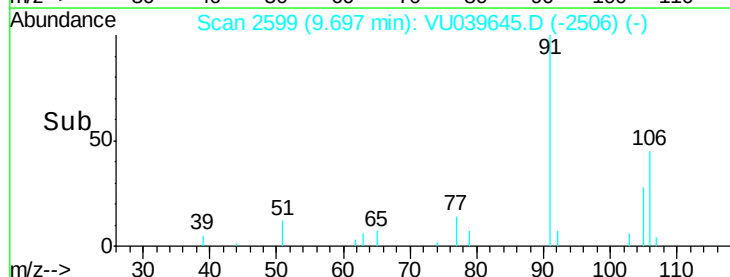
2000

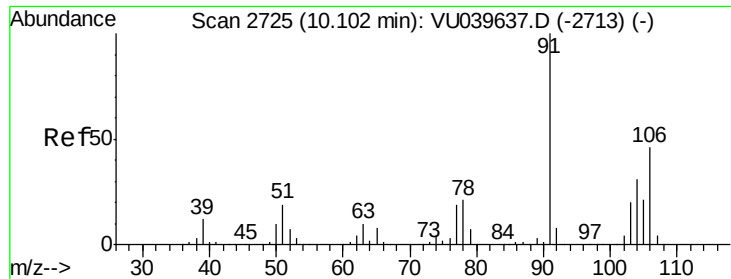
1000

0

9.65 9.70 9.75

Time-->





#54

o-xylene

Concen: 1.982 ug/L

RT: 10.10 min Scan# 2726

Delta R.T. 0.00 min

Lab File: VU039645.D

Acq: 23 Jul 2020 19:03

Instrument :

MSVOA_U

ClientSampled :

MDL06

Tot Ion:106 Resp: 4190

Ion Ratio Lower Upper

106 100

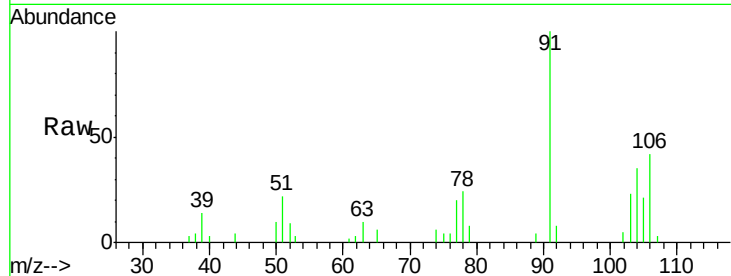
91 237.2 155.1 288.1

Manual Integrations

APPROVED

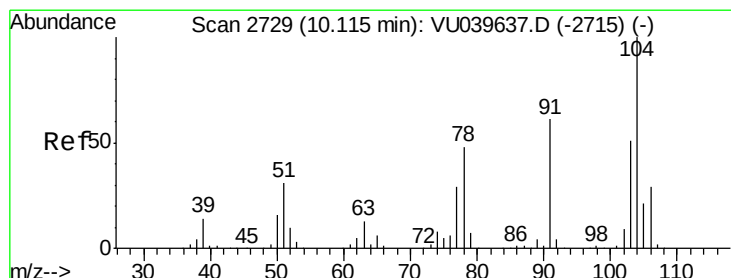
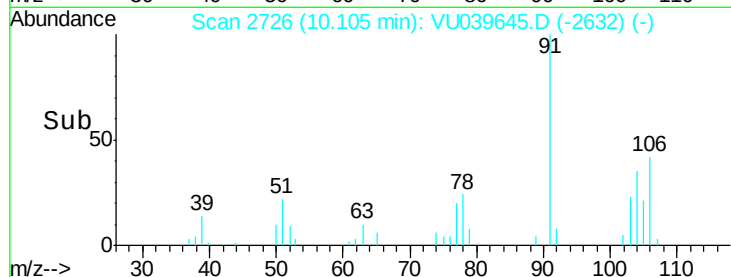
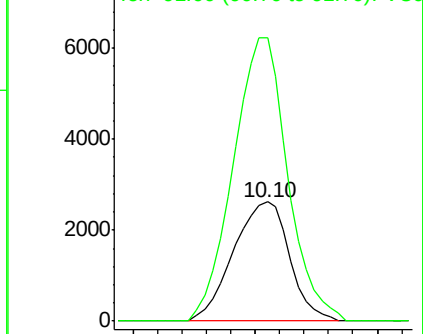
sam

7/30/2020 2:58:15 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.834 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VU039645.D

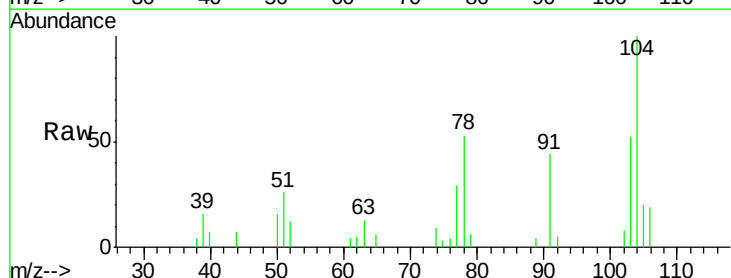
Acq: 23 Jul 2020 19:03

Tgt Ion:104 Resp: 6710

Ion Ratio Lower Upper

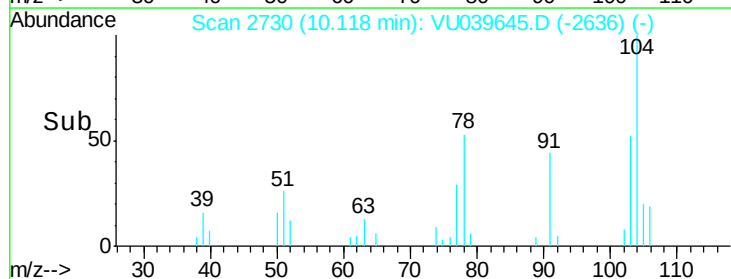
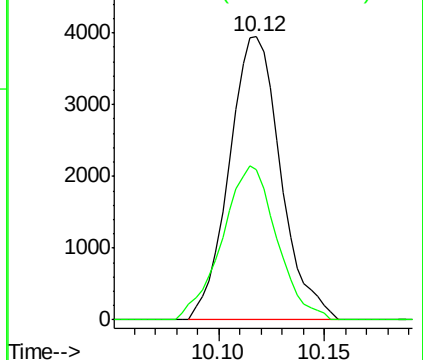
104 100

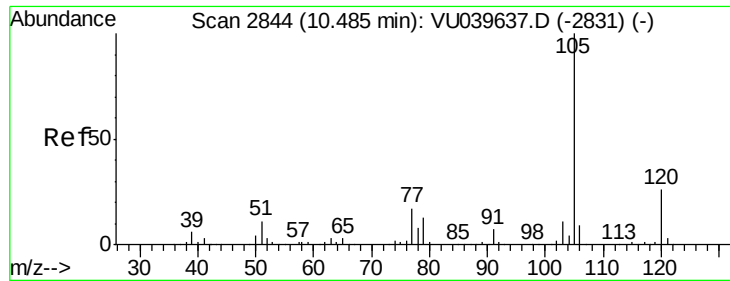
78 53.3 34.3 63.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 1.980 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. -0.00 min

Lab File: VU039645.D

Acq: 23 Jul 2020 19:03

Instrument :

MSVOA_U

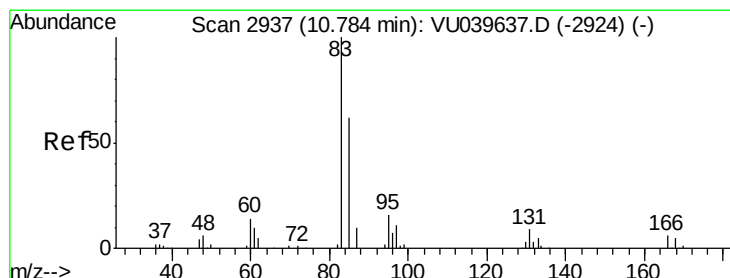
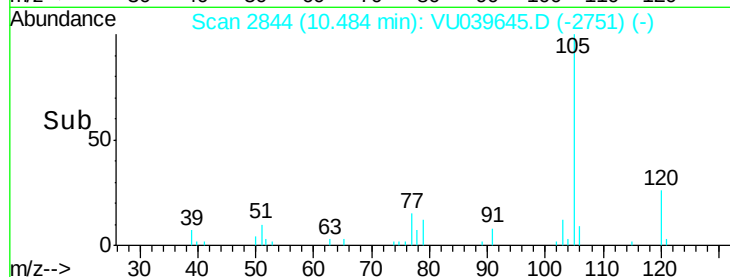
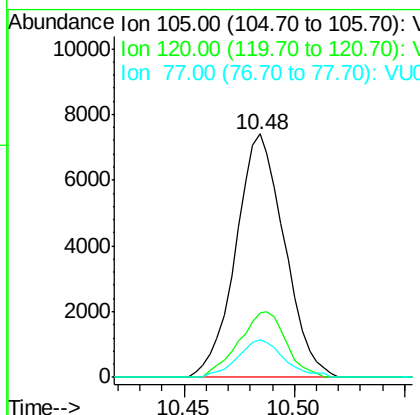
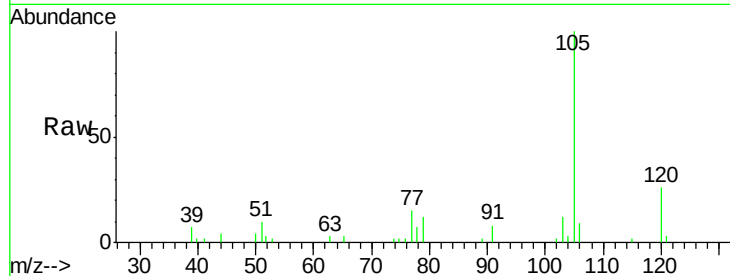
ClientSampled :

MDL06

Tot Ion:	105	Resp:	11363
Ion Ratio	Lower	Upper	
105	100		
120	26.0	20.6	31.0
77	14.7	13.4	20.2

Manual Integrations
APPROVED

sam
7/30/2020 2:58:15 AM



#58

1,1,2,2-Tetrachloroethane

Concen: 2.312 ug/L

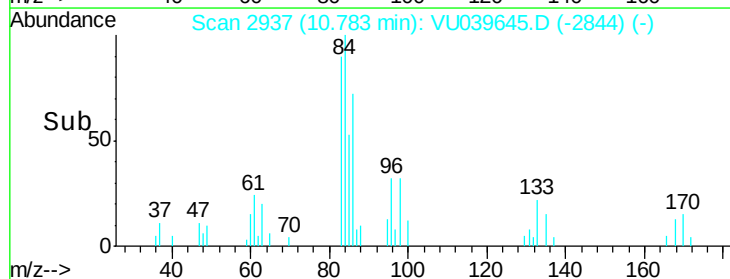
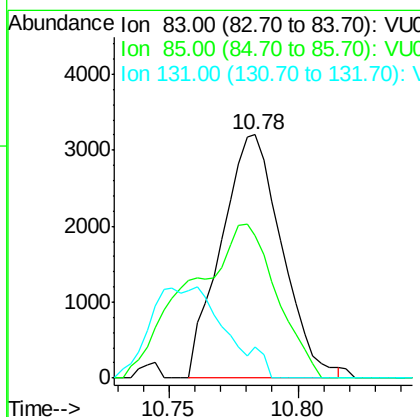
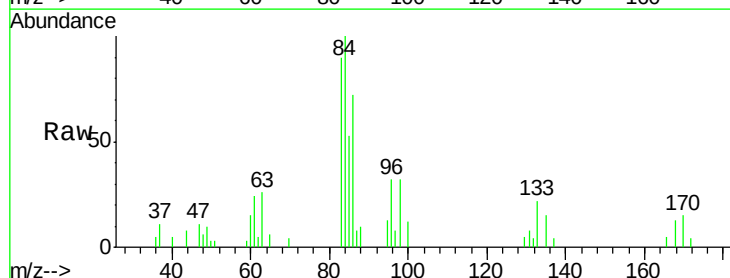
RT: 10.78 min Scan# 2937

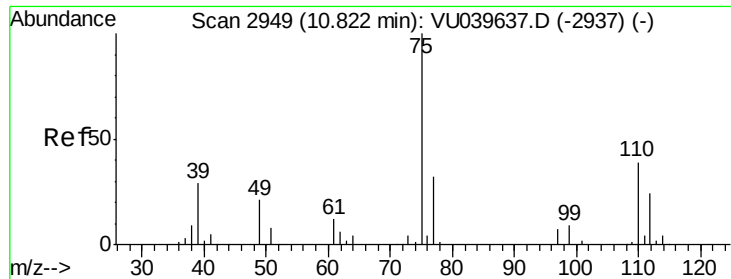
Delta R.T. -0.00 min

Lab File: VU039645.D

Acq: 23 Jul 2020 19:03

Tgt Ion:	83	Resp:	5231
Ion Ratio	Lower	Upper	
83	100		
85	58.5	46.4	86.2
131	12.7	7.8	11.6#





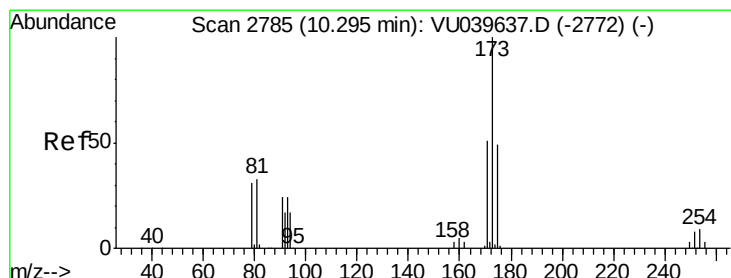
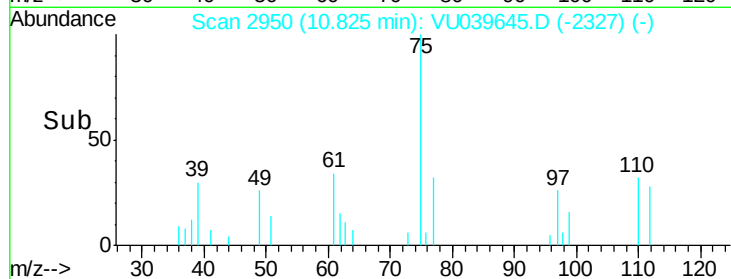
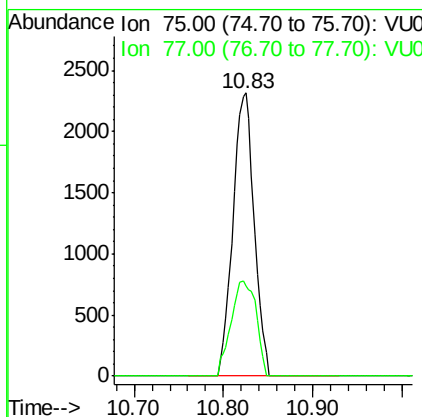
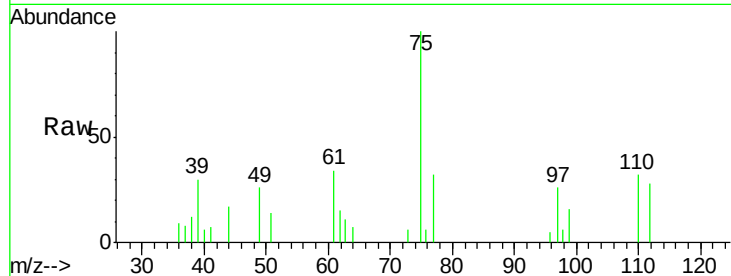
#59
 1,2,3-Trichloropropane
 Concen: 2.013 ug/L m
 RT: 10.83 min Scan# 2950
 Delta R.T. 0.00 min
 Lab File: VU039645.D
 Acq: 23 Jul 2020 19:03

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tot Ion: 75 Resp: 3803
 Ion Ratio Lower Upper
 75 100
 77 122.6 25.4 38.2#

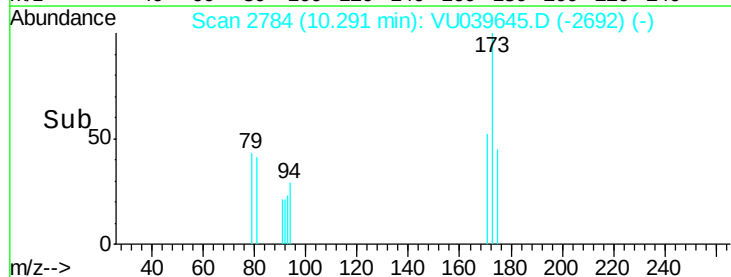
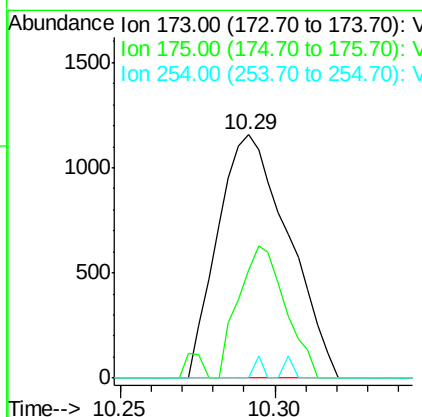
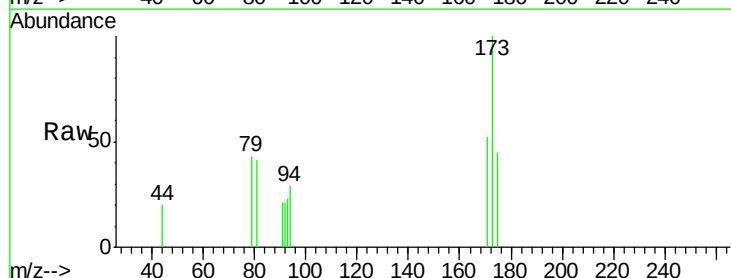
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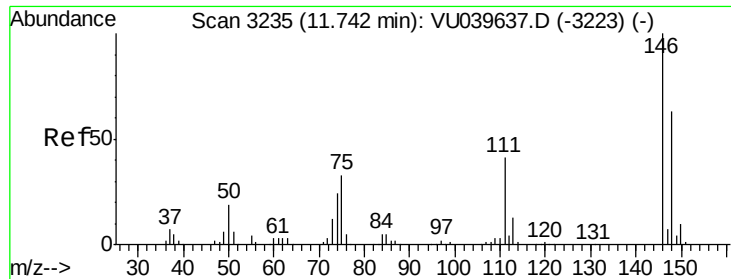
sam
 7/30/2020 2:58:15 AM



#61
 Bromoform
 Concen: 1.942 ug/L
 RT: 10.29 min Scan# 2784
 Delta R.T. -0.00 min
 Lab File: VU039645.D
 Acq: 23 Jul 2020 19:03

Tgt Ion: 173 Resp: 1837
 Ion Ratio Lower Upper
 173 100
 175 36.1 38.4 57.6#
 254 0.0 7.0 10.6#





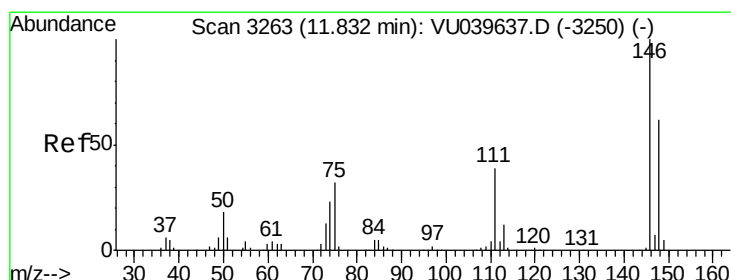
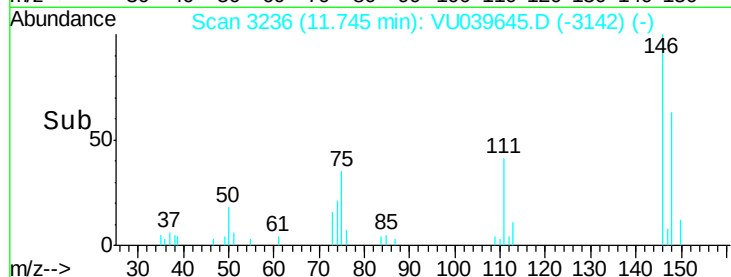
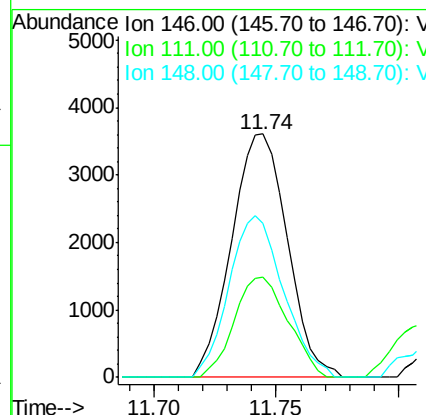
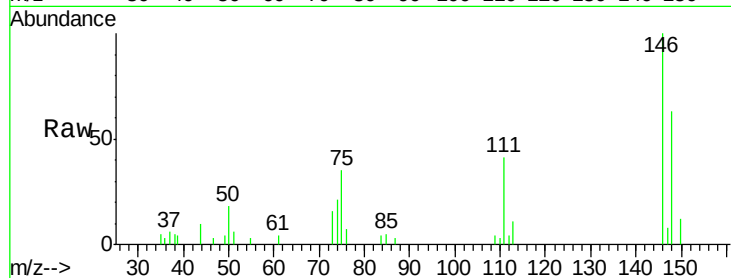
#62
 1,3-Dichlorobenzene
 Concen: 2.336 ug/L
 RT: 11.74 min Scan# 3236
 Delta R.T. 0.00 min
 Lab File: VU039645.D
 Acq: 23 Jul 2020 19:03

Instrument :
 MSVOA_U
 ClientSampled :
 MDL06

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.0	29.3	54.3
148	63.1	46.1	85.5

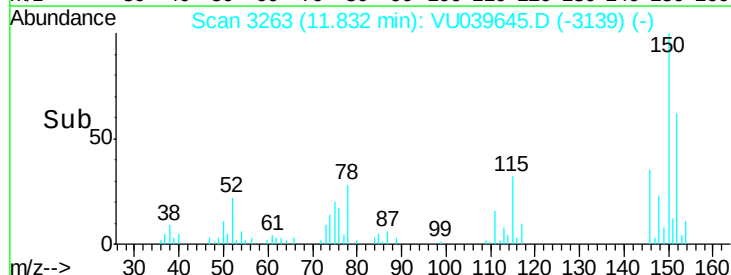
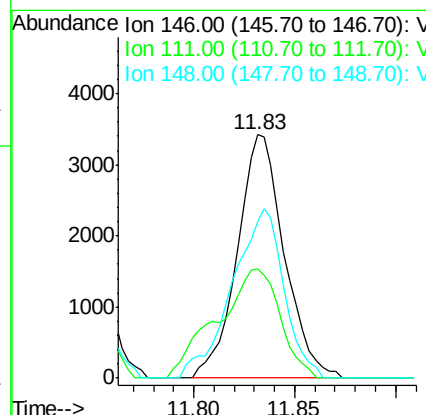
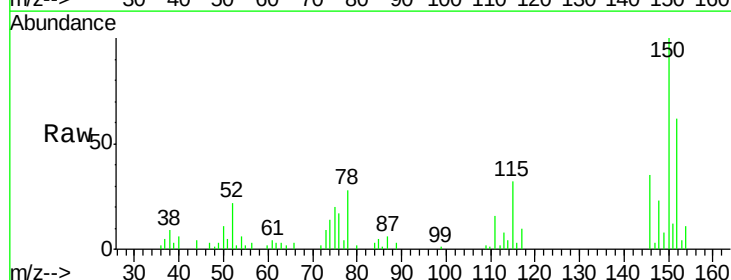
Manual Integrations
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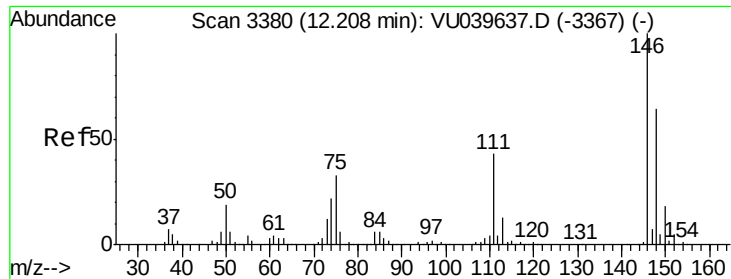
sam
 7/30/2020 2:58:15 AM



#63
 1,4-Dichlorobenzene
 Concen: 2.271 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. -0.00 min
 Lab File: VU039645.D
 Acq: 23 Jul 2020 19:03

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.9	27.8	51.6
148	64.2	44.7	83.1





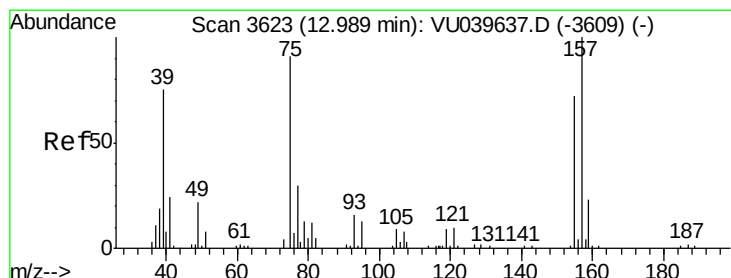
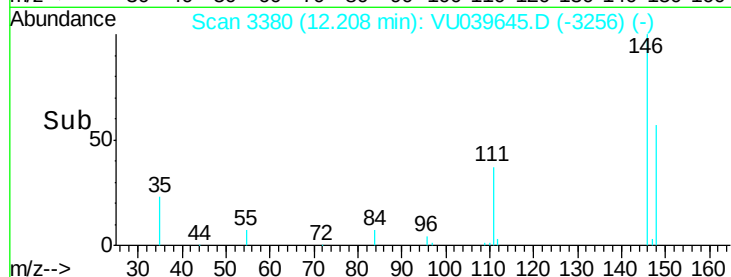
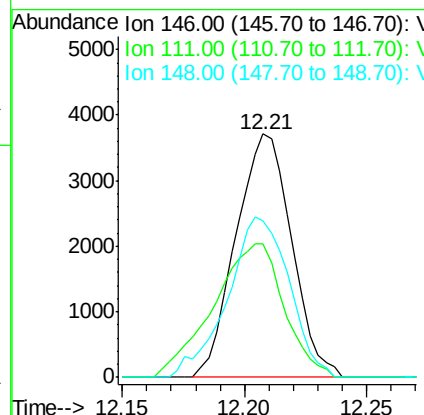
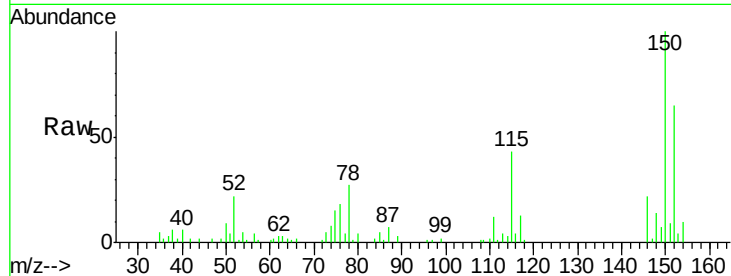
#65
 1,2-Dichlorobenzene
 Concen: 2.377 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. -0.00 min
 Lab File: VU039645.D
 Acq: 23 Jul 2020 19:03

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tot Ion	Ratio	Lower	Upper
146	100		
111	54.6	34.8	52.2#
148	64.5	52.5	78.7

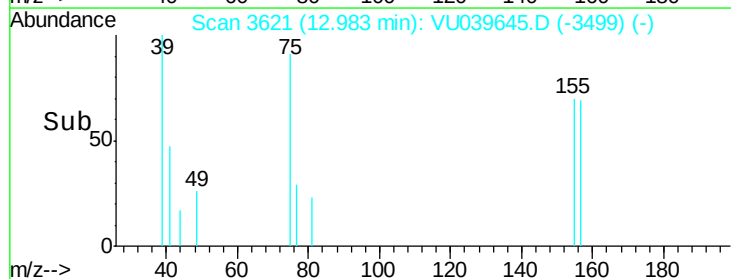
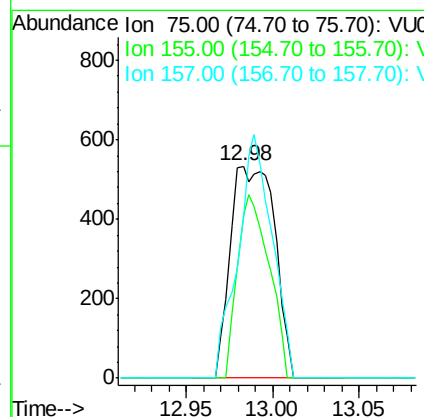
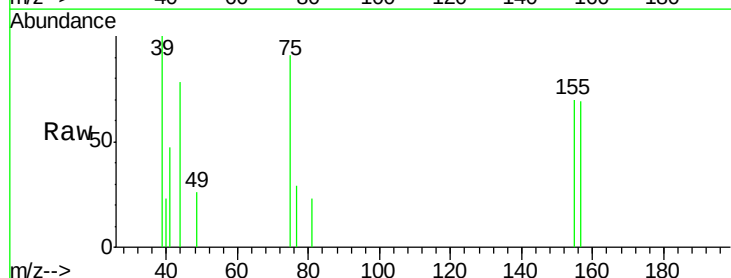
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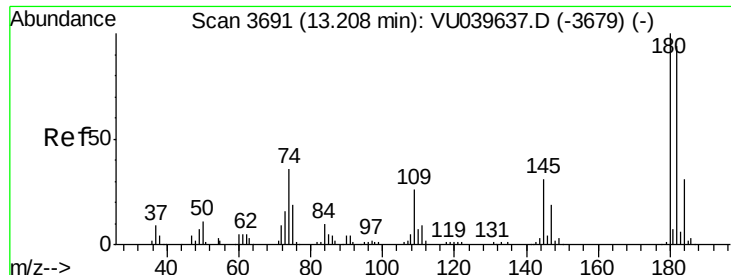
sam
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#66
 1,2-Dibromo-3-chloropropane
 Concen: 1.907 ug/L m
 RT: 12.98 min Scan# 3621
 Delta R.T. -0.01 min
 Lab File: VU039645.D
 Acq: 23 Jul 2020 19:03

Tgt Ion	Ratio	Lower	Upper
75	100		
155	77.0	62.4	93.6
157	76.2	78.9	118.3#





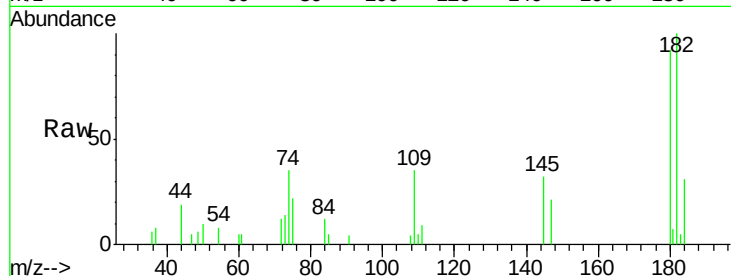
#67
 1,3,5-Trichlorobenzene
 Concen: 2.158 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. 0.00 min
 Lab File: VU039645.D
 Acq: 23 Jul 2020 19:03

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	75.7	113.5
184	28.8	24.2	36.2
145	31.6	24.6	36.8

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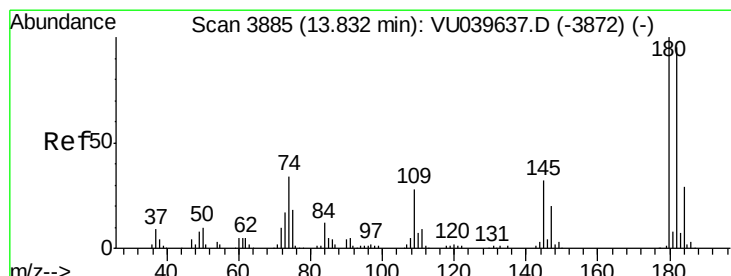
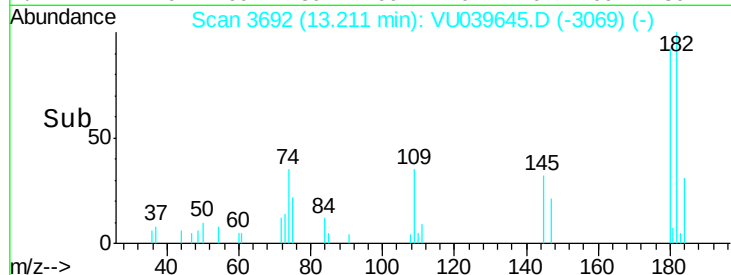
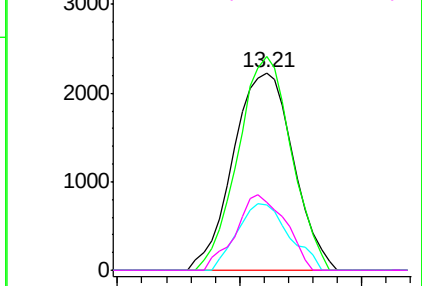


Abundance Ion 180.00 (179.70 to 180.70): V

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



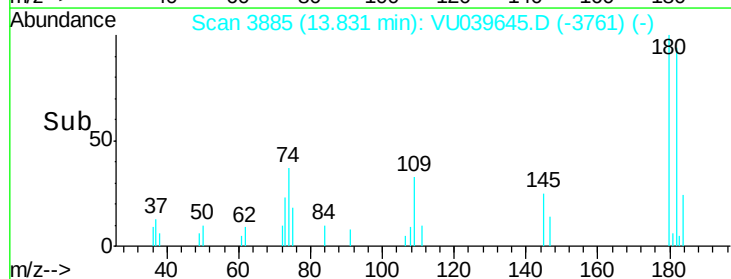
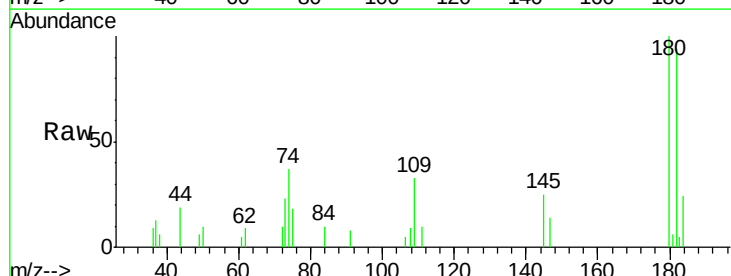
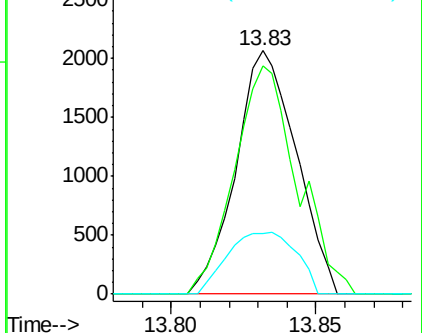
#68
 1,2,4-trichlorobenzene
 Concen: 1.988 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. -0.00 min
 Lab File: VU039645.D
 Acq: 23 Jul 2020 19:03

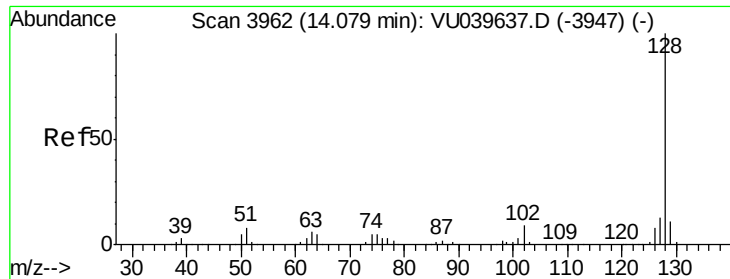
Tgt Ion	Ratio	Lower	Upper
180	100		
182	84.0	74.4	111.6
145	29.1	24.8	37.2

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: 1.830 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. -0.00 min

Lab File: VU039645.D

Acq: 23 Jul 2020 19:03

Instrument :

MSVOA_U

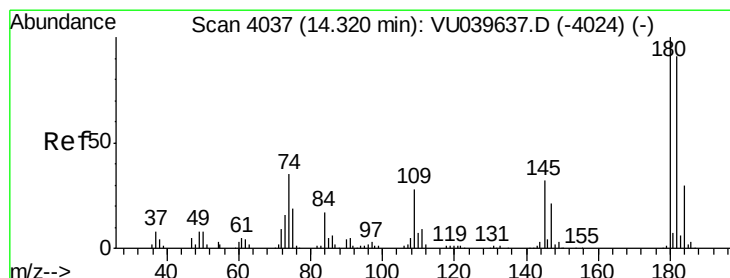
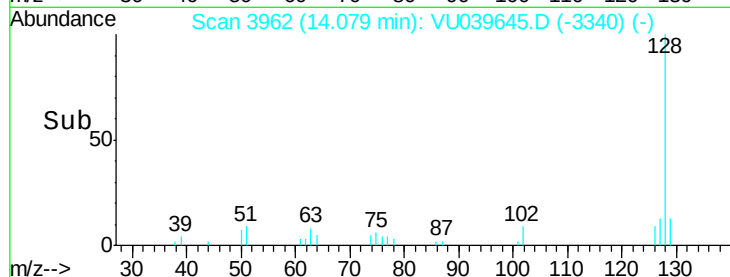
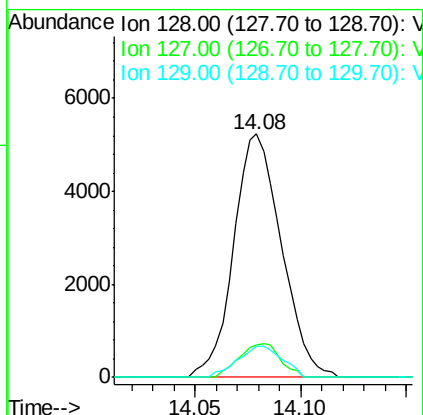
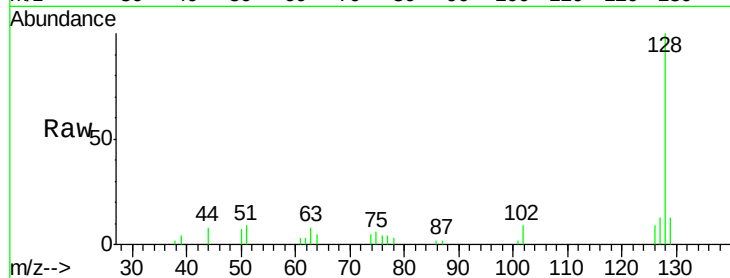
ClientSampleId :

MDL06

Tot Ion:	128	Resp:	8230
Ion	Ratio	Lower	Upper
128	100		
127	12.1	10.7	16.1
129	12.0	8.8	13.2

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#70

1,2,3-Trichlorobenzene

Concen: 2.020 ug/L

RT: 14.32 min Scan# 4038

Delta R.T. 0.00 min

Lab File: VU039645.D

Acq: 23 Jul 2020 19:03

Tgt Ion:	180	Resp:	3058
Ion	Ratio	Lower	Upper
180	100		
182	88.9	76.6	114.8
145	32.0	27.0	40.4

