

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072320\
 Data File : VU039648.D
 Acq On : 23 Jul 2020 20:09
 Operator : SY/MD
 Sample : MDL02
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 MDL02

Manual Integrations
 APPROVED

sam
 7/30/2020 2:57:54 AM

Quant Time: Jul 29 09:21:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jul 24 01:59:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.27	114	180509	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	174177	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	79814	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	49736	42.32	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	84.64%
7) Chloroethane-d5	1.92	69	51006	36.22	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	72.44%
11) 1,1-Dichloroethene-d2	2.58	63	84531	33.98	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.96%
21) 2-Butanone-d5	4.65	46	126290	93.09	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	93.09%
24) Chloroform-d	5.08	84	119428	45.19	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.38%
26) 1,2-Dichloroethane-d4	5.72	65	87515	46.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.68%
32) Benzene-d6	5.74	84	230642	47.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.38%
36) 1,2-Dichloropropane-d6	6.71	67	76671	48.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.68%
41) Toluene-d8	7.91	98	209102	45.95	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.90%
43) trans-1,3-Dichloropropene-	8.19	79	34857	43.54	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.08%
47) 2-Hexanone-d5	8.64	63	78514	90.75	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	90.75%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	112768	44.90	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	89.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	84005	48.13	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.26%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	2323	1.889 ug/L	94
3) Chloromethane	1.53	50	2498	1.955 ug/L	98
5) Vinyl chloride	1.61	62	2701	2.081 ug/L #	70
6) Bromomethane	1.86	94	2456	2.518 ug/L	91
8) Chloroethane	1.94	64	2377m	2.059 ug/L	
9) Trichlorofluoromethane	2.15	101	4124	1.798 ug/L	94
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	2701	2.446 ug/L #	79
12) 1,1-Dichloroethene	2.59	96	2760	2.680 ug/L #	1
13) Acetone	2.65	43	3218m	3.564 ug/L	
14) Carbon disulfide	2.81	76	6017	1.826 ug/L	98
15) Methyl Acetate	2.96	43	2946	1.821 ug/L	96
16) Methylene chloride	3.06	84	2624	2.128 ug/L	85
17) trans-1,2-Dichloroethene	3.38	96	1913	1.670 ug/L	96
18) Methyl tert-butyl Ether	3.38	73	6843	1.848 ug/L #	87
19) 1,1-Dichloroethane	3.89	63	4267m	1.908 ug/L	
20) cis-1,2-Dichloroethene	4.69	96	2408	1.839 ug/L	98
22) 2-Butanone	4.73	43	5372	4.222 ug/L	92

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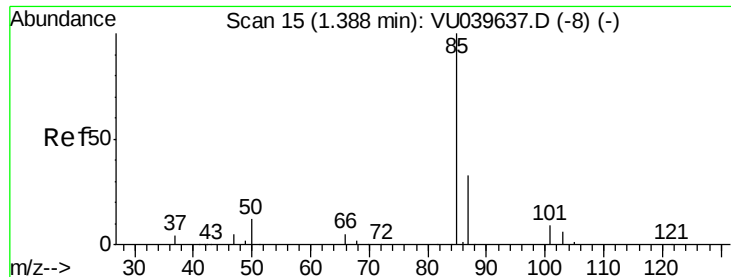
Manual Integrations
 APPROVED

sam
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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	1135	1.725	ug/L	87
25) Chloroform	5.11	83	9697	3.910	ug/L	100
27) 1,2-Dichloroethane	5.81	62	4461	2.169	ug/L #	91
29) Cyclohexane	5.41	56	3513	1.856	ug/L #	91
30) 1,1,1-Trichloroethane	5.34	97	3850	1.846	ug/L #	82
31) Carbon tetrachloride	5.54	117	3093	1.788	ug/L	87
33) Benzene	5.79	78	9697	2.020	ug/L	100
34) Trichloroethene	6.56	95	2530	1.993	ug/L	86
35) Methylcyclohexane	6.78	83	3501	1.783	ug/L #	85
37) 1,2-Dichloropropane	6.80	63	2517	1.937	ug/L #	89
38) Bromodichloromethane	7.12	83	3253	1.885	ug/L #	96
39) cis-1,3-Dichloropropene	7.62	75	3036	1.563	ug/L #	79
40) 4-Methyl-2-pentanone	7.80	43	8387	3.704	ug/L	97
42) Toluene	7.98	91	9722	1.842	ug/L	97
44) trans-1,3-Dichloropropene	8.22	75	3378	1.776	ug/L	94
45) 1,1,2-Trichloroethane	8.41	97	2299	1.855	ug/L	87
46) Tetrachloroethene	8.56	164	1751	1.823	ug/L	95
48) 2-Hexanone	8.69	43	10177	5.516	ug/L	98
49) Dibromochloromethane	8.82	129	2462	1.759	ug/L	91
50) 1,2-Dibromoethane	8.93	107	2746	1.991	ug/L #	88
51) Chlorobenzene	9.45	112	6855	2.035	ug/L	90
52) Ethylbenzene	9.57	91	10433	1.788	ug/L	95
53) m,p-Xylene	9.70	106	4021	1.829	ug/L	84
54) o-xylene	10.10	106	3725	1.765	ug/L	96
55) Styrene	10.11	104	5951	1.630	ug/L	91
56) Isopropylbenzene	10.48	105	9906	1.729	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	4515	1.999	ug/L #	89
59) 1,2,3-Trichloropropane	10.83	75	3356	1.780	ug/L	100
61) Bromoform	10.30	173	1355	1.435	ug/L #	83
62) 1,3-Dichlorobenzene	11.74	146	4818	1.971	ug/L	98
63) 1,4-Dichlorobenzene	11.83	146	4769	1.947	ug/L #	85
65) 1,2-Dichlorobenzene	12.21	146	5160	2.089	ug/L #	94
66) 1,2-Dibromo-3-chloropropan	12.98	75	801m	1.621	ug/L	
67) 1,3,5-Trichlorobenzene	13.21	180	2909	1.650	ug/L	92
68) 1,2,4-trichlorobenzene	13.83	180	2846	1.902	ug/L	97
69) Naphthalene	14.08	128	7325	1.632	ug/L #	96
70) 1,2,3-Trichlorobenzene	14.32	180	2702	1.788	ug/L #	94

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



#2

Dichlorodifluoromethane

Concen: 1.889 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU039648.D

Acq: 23 Jul 2020 20:09

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 85 Resp: 2323

Ion Ratio Lower Upper

85 100

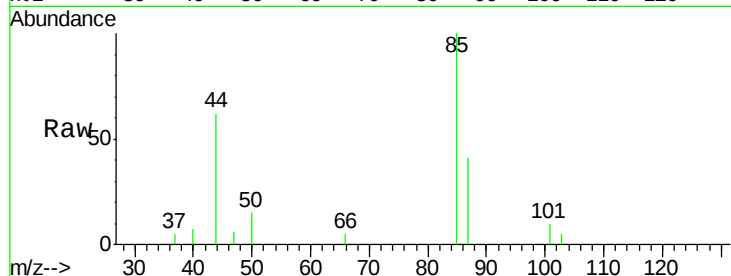
87 36.3 26.2 39.4

Manual Integrations

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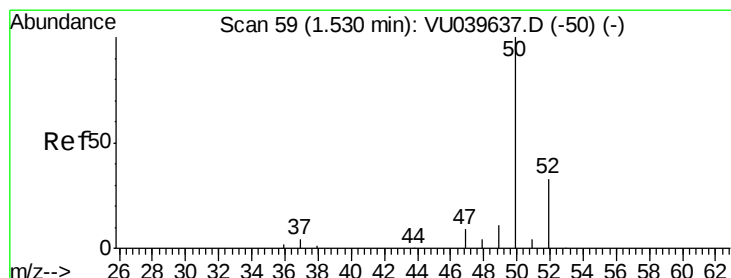
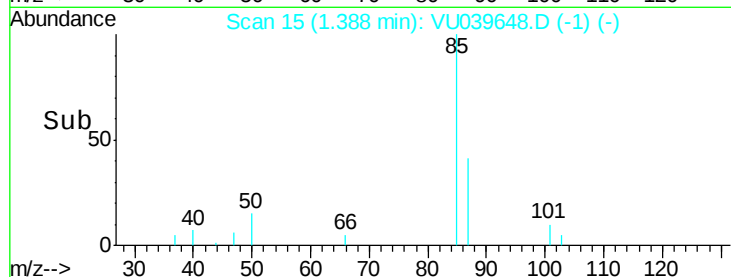
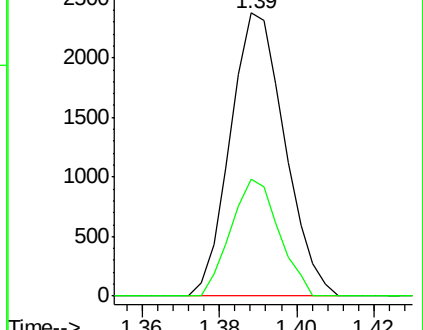
sam

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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) (-)



#3

Chloromethane

Concen: 1.955 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU039648.D

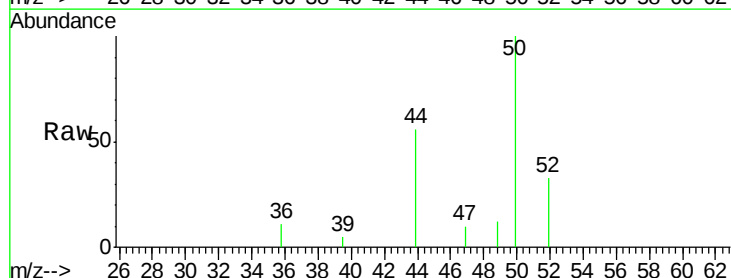
Acq: 23 Jul 2020 20:09

Tgt Ion: 50 Resp: 2498

Ion Ratio Lower Upper

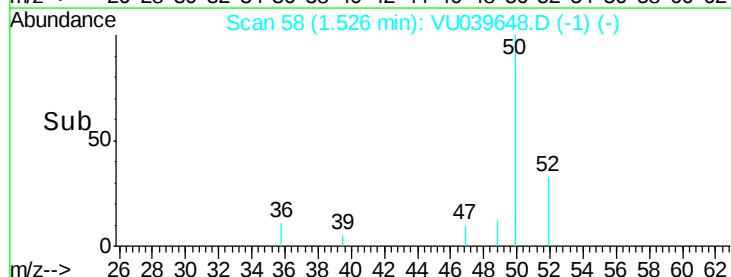
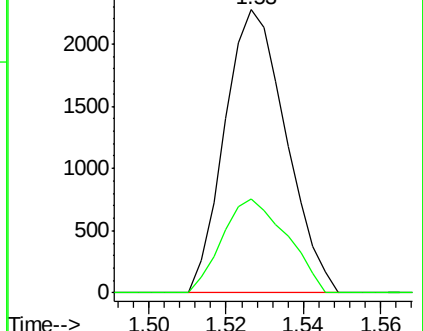
50 100

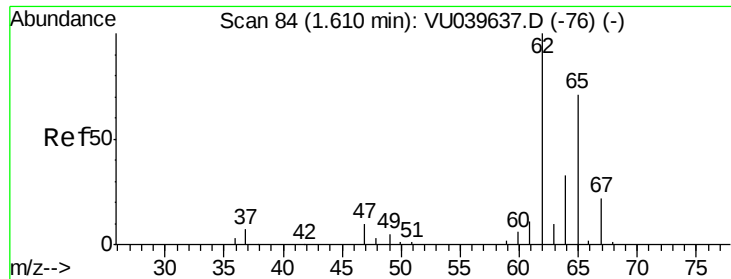
52 33.0 24.0 44.6



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

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





#5

Vinyl chloride

Concen: 2.081 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU039648.D

Acq: 23 Jul 2020 20:09

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 62 Resp: 2701

Ion Ratio Lower Upper

62 100

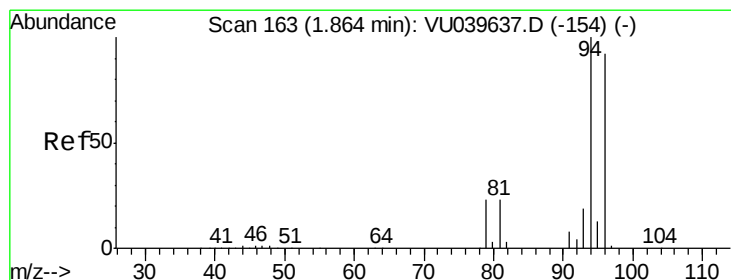
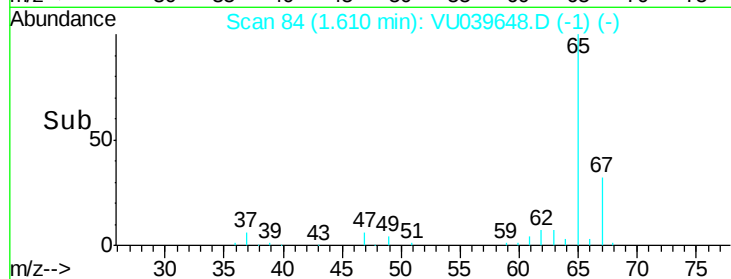
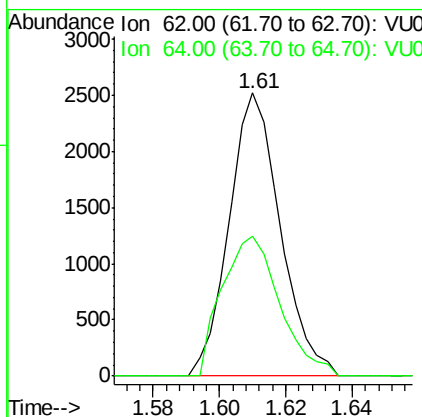
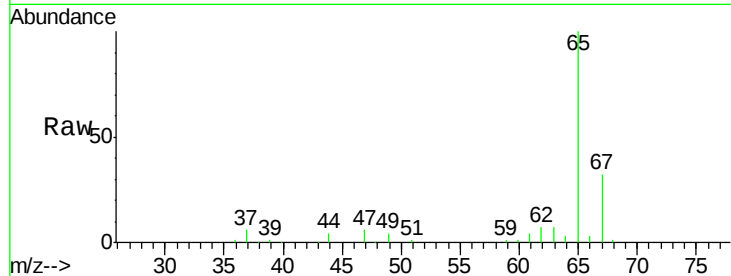
64 49.5 22.8 42.4#

Manual Integrations

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#6

Bromomethane

Concen: 2.518 ug/L

RT: 1.86 min Scan# 163

Delta R.T. -0.00 min

Lab File: VU039648.D

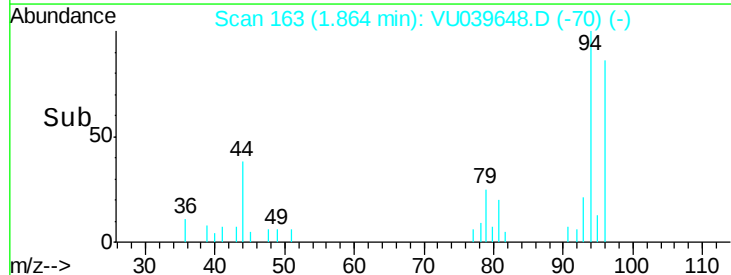
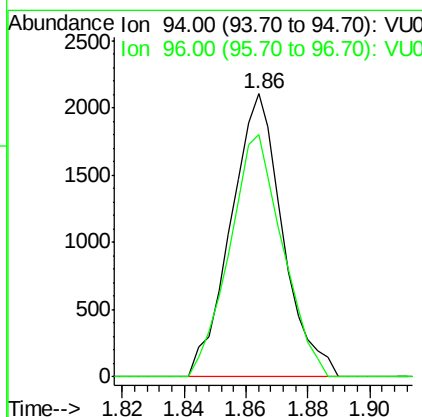
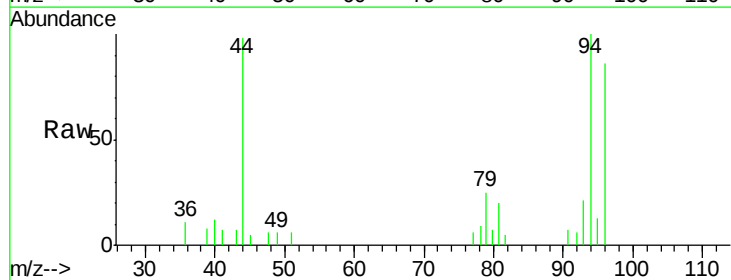
Acq: 23 Jul 2020 20:09

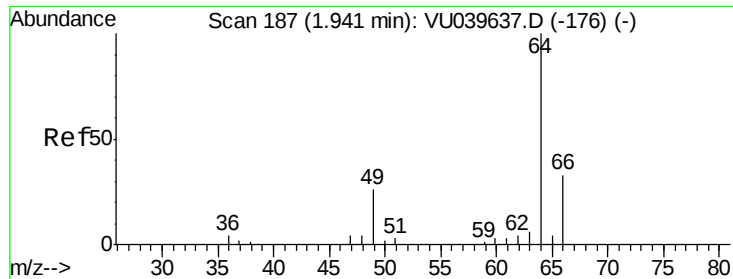
Tgt Ion: 94 Resp: 2456

Ion Ratio Lower Upper

94 100

96 85.6 65.7 122.1





#8

Chloroethane

Concen: 2.059 ug/L m

RT: 1.94 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU039648.D

Acq: 23 Jul 2020 20:09

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 64 Resp: 2377

Ion Ratio Lower Upper

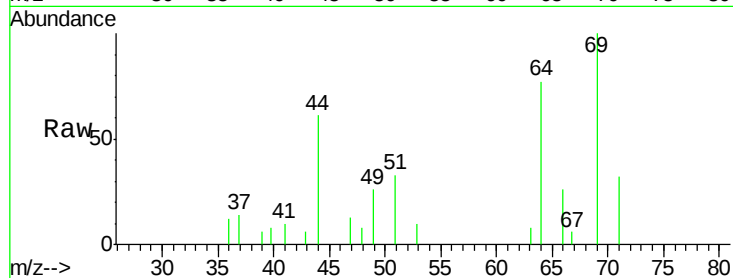
64 100

66 33.8 22.7 42.1

Manual Integrations
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Abundance Ion 64.00 (63.70 to 64.70): VU039637.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU039637.D (-176) (-)

1.94

1500

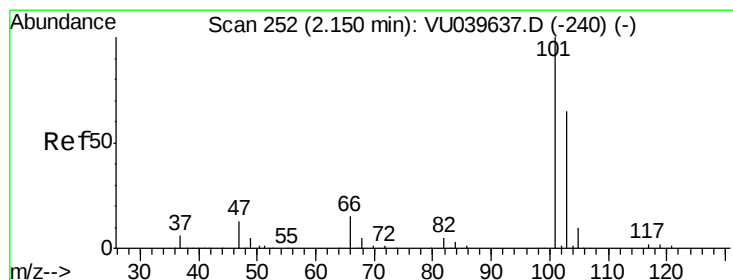
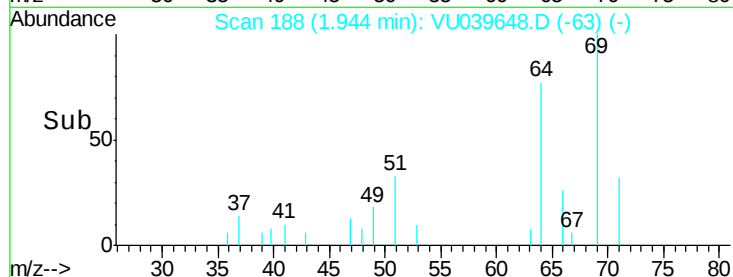
1000

500

0

1.90 1.95 2.00

Time-->



#9

Trichlorofluoromethane

Concen: 1.798 ug/L

RT: 2.15 min Scan# 251

Delta R.T. -0.00 min

Lab File: VU039648.D

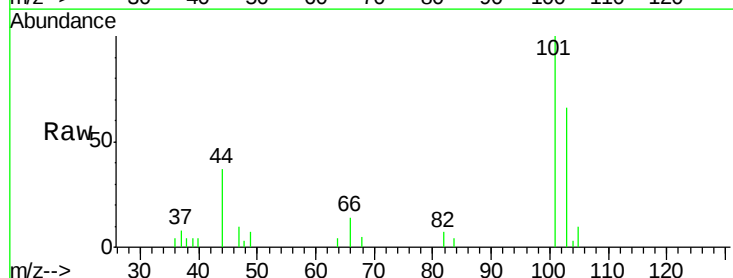
Acq: 23 Jul 2020 20:09

Tgt Ion: 101 Resp: 4124

Ion Ratio Lower Upper

101 100

103 71.1 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): VU039637.D (-240) (-)

Ion 103.00 (102.70 to 103.70): VU039637.D (-240) (-)

2.15

3000

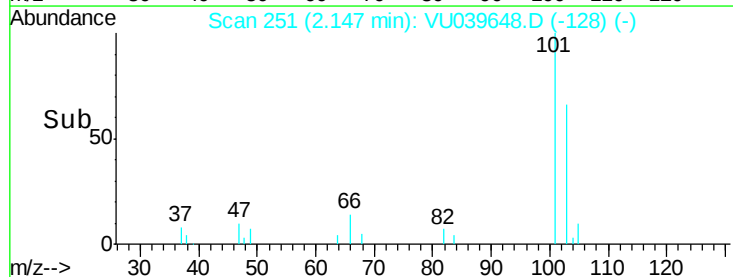
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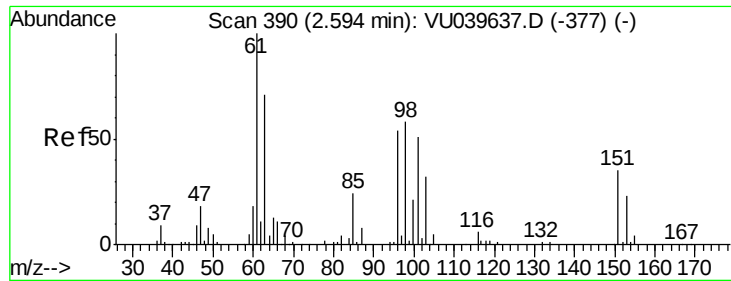
1000

0

2.10 2.15

Time-->





#10

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

Concen: 2.446 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU039648.D

Acq: 23 Jul 2020 20:09

Instrument :

MSVOA_U

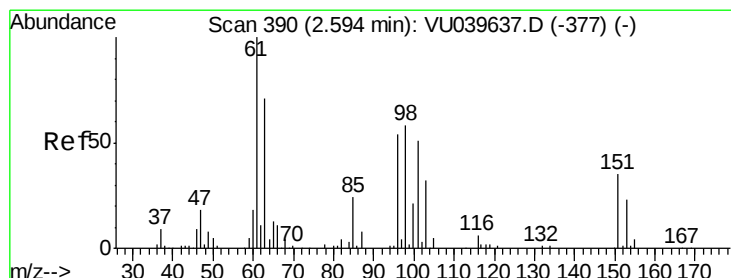
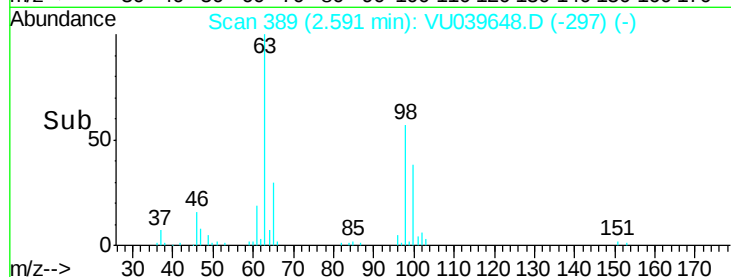
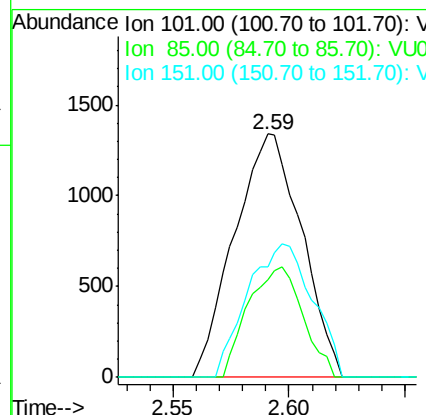
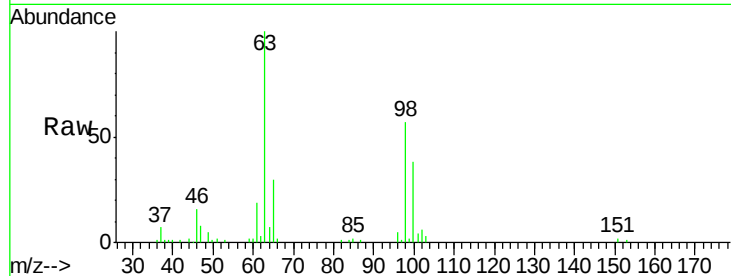
ClientSampleId :

MDL02

Tot Ion:	101	Resp:	2701
Ion Ratio	Lower	Upper	
101	100		
85	36.9	39.7	59.5#
151	53.1	57.4	86.2#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 2.680 ug/L

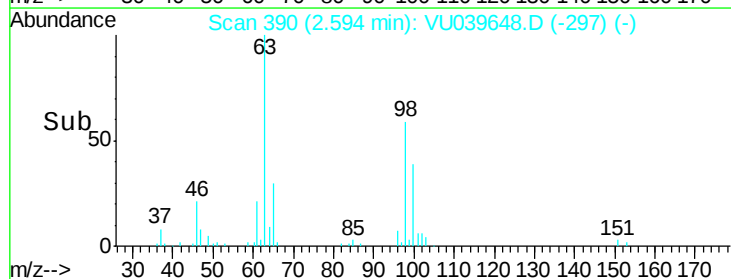
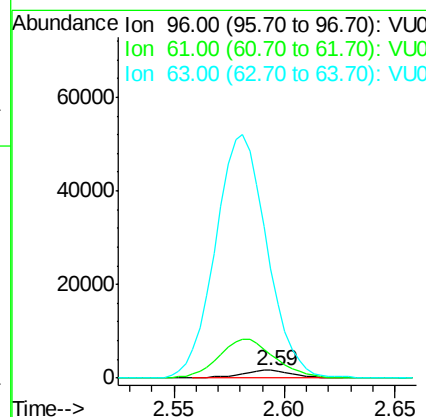
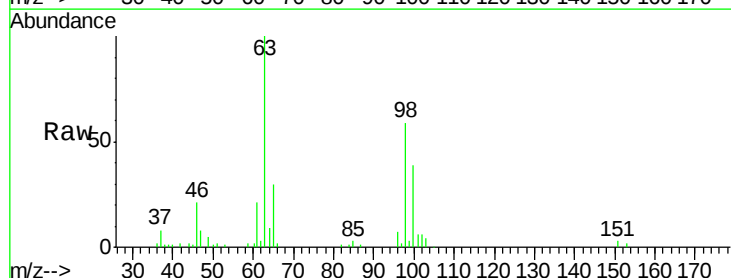
RT: 2.59 min Scan# 390

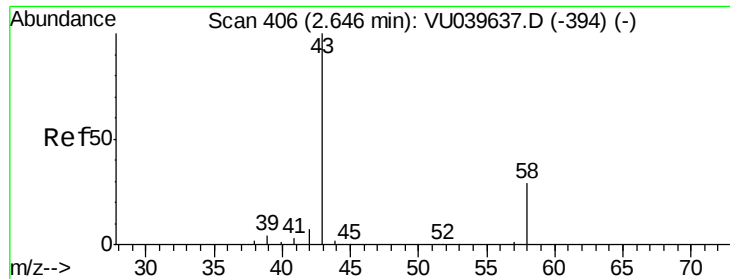
Delta R.T. -0.00 min

Lab File: VU039648.D

Acq: 23 Jul 2020 20:09

Tgt Ion:	96	Resp:	2760
Ion Ratio	Lower	Upper	
96	100		
61	294.7	136.6	253.6#
63	1412.2	97.2	180.6#





#13

Acetone

Concen: 3.564 ug/L m

RT: 2.65 min Scan# 406

Delta R.T. -0.00 min

Lab File: VU039648.D

Acq: 23 Jul 2020 20:09

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 43 Resp: 3218

Ion Ratio Lower Upper

43 100

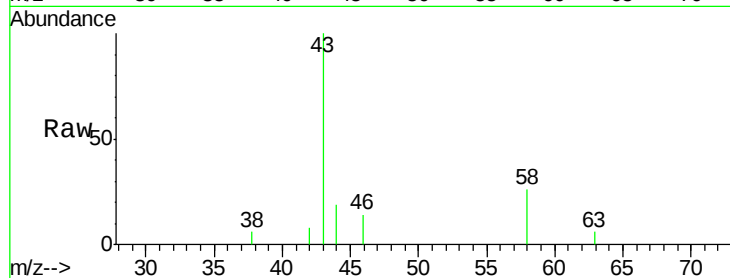
58 30.6 0.0 59.4

Manual Integrations

APPROVED

sam

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Abundance Ion 43.00 (42.70 to 43.70): VU039648.D (-313) (-)

Ion 58.00 (57.70 to 58.70): VU039648.D (-313) (-)

2000

1500

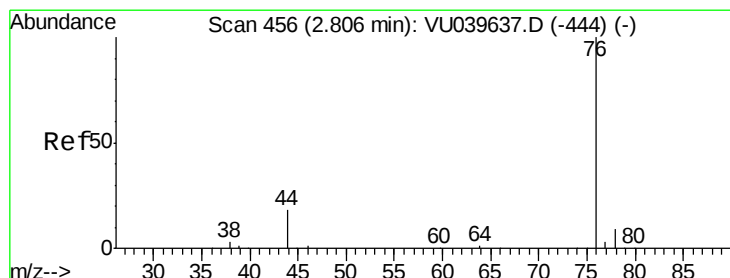
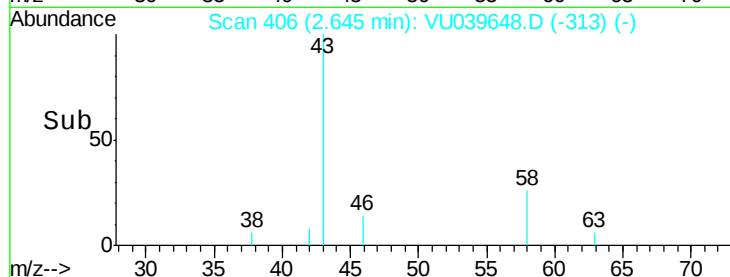
1000

500

0

Time-->

2.60 2.65 2.70



#14

Carbon disulfide

Concen: 1.826 ug/L

RT: 2.81 min Scan# 457

Delta R.T. 0.00 min

Lab File: VU039648.D

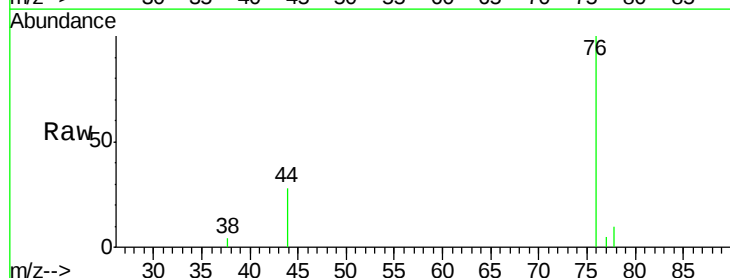
Acq: 23 Jul 2020 20:09

Tgt Ion: 76 Resp: 6017

Ion Ratio Lower Upper

76 100

78 9.8 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU039648.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VU039648.D (-363) (-)

4000

3000

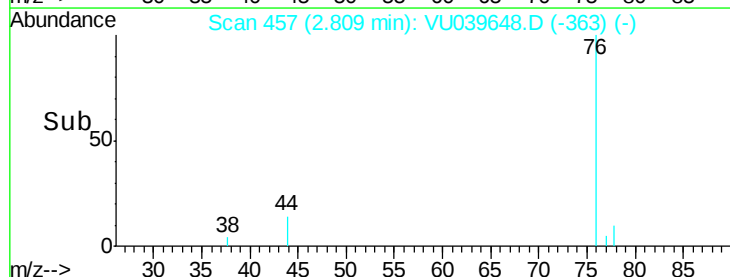
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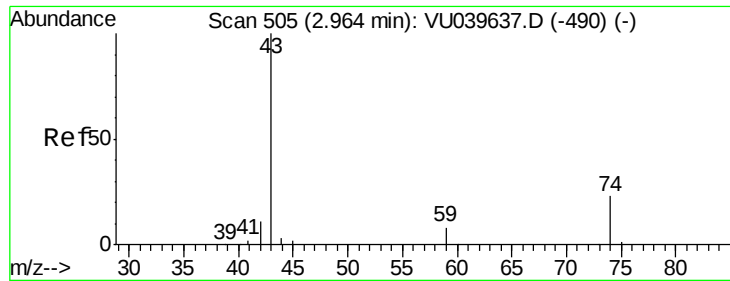
1000

0

Time-->

2.75 2.80 2.85





#15

Methyl Acetate

Concen: 1.821 ug/L

RT: 2.96 min Scan# 504

Delta R.T. -0.00 min

Lab File: VU039648.D

Acq: 23 Jul 2020 20:09

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 43 Resp: 2946

Ion Ratio Lower Upper

43 100

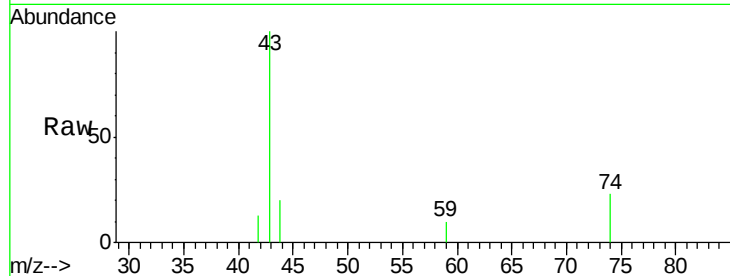
74 19.7 17.4 26.0

Manual Integrations

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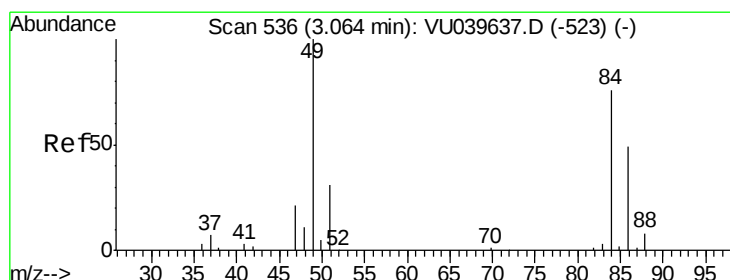
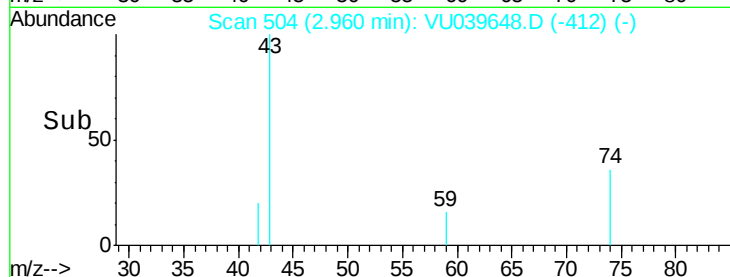
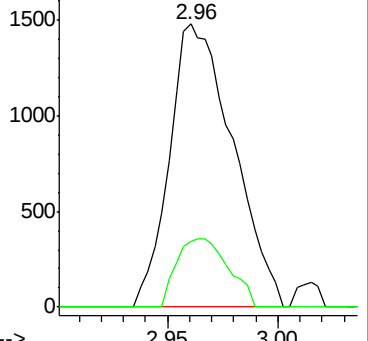
sam

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Abundance Ion 43.00 (42.70 to 43.70): VU039637.D (-490) (-)

Ion 74.00 (73.70 to 74.70): VU039637.D (-490) (-)



#16

Methylene chloride

Concen: 2.128 ug/L

RT: 3.06 min Scan# 535

Delta R.T. -0.00 min

Lab File: VU039648.D

Acq: 23 Jul 2020 20:09

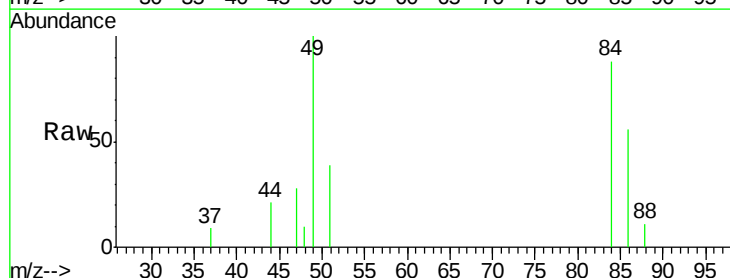
Tgt Ion: 84 Resp: 2624

Ion Ratio Lower Upper

84 100

86 64.2 46.2 85.8

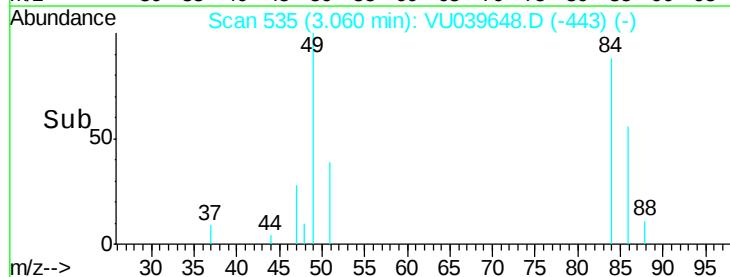
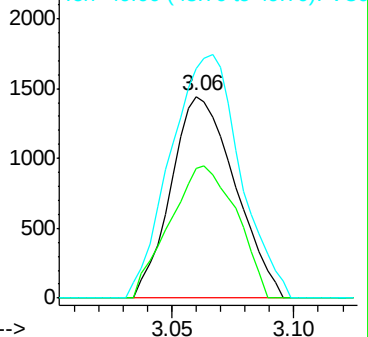
49 113.6 97.3 180.7

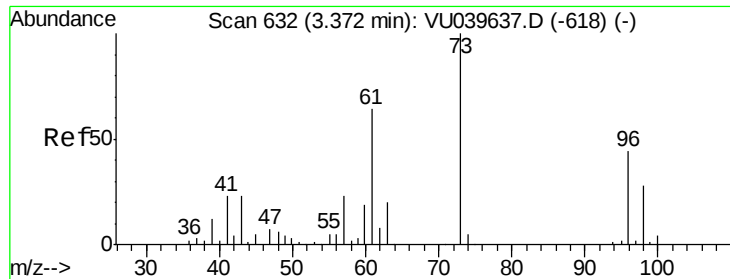


Abundance Ion 84.00 (83.70 to 84.70): VU039637.D (-523) (-)

Ion 86.00 (85.70 to 86.70): VU039637.D (-523) (-)

Ion 49.00 (48.70 to 49.70): VU039637.D (-523) (-)





#17

trans-1,2-Dichloroethene

Concen: 1.670 ug/L

RT: 3.38 min Scan# 633

Delta R.T. 0.00 min

Lab File: VU039648.D

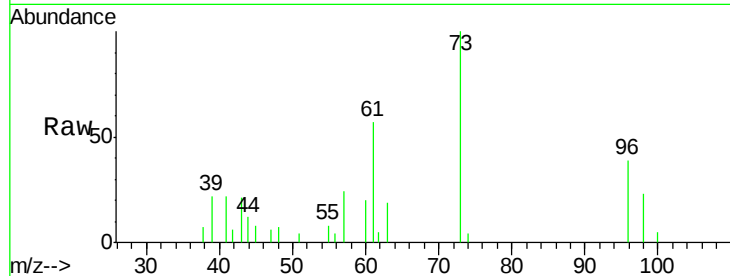
Acq: 23 Jul 2020 20:09

Instrument :
MSVOA_U
ClientSampled :
MDL02

Tot Ion	Ratio	Lower	Upper
96	100		
61	156.9	106.7	198.1
98	59.8	44.3	82.3

Manual Integrations
APPROVED

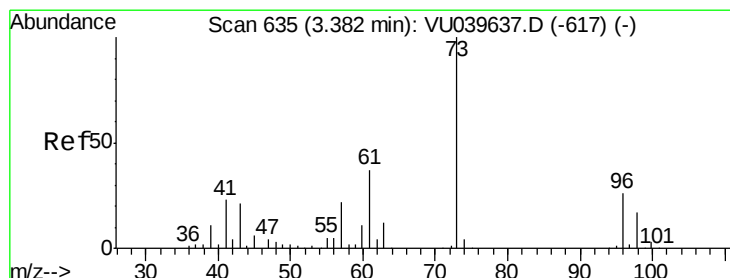
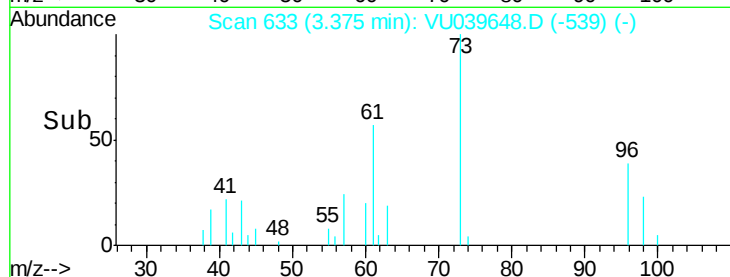
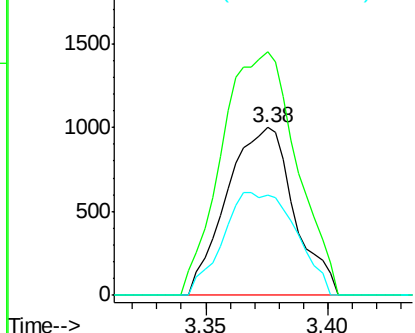
sam
7/30/2020 2:57:54 AM



Abundance Ion 96.00 (95.70 to 96.70): VU039648.D (-539) (-)

Ion 61.00 (60.70 to 61.70): VU039648.D (-539) (-)

Ion 98.00 (97.70 to 98.70): VU039648.D (-539) (-)



#18

Methyl tert-butyl Ether

Concen: 1.848 ug/L

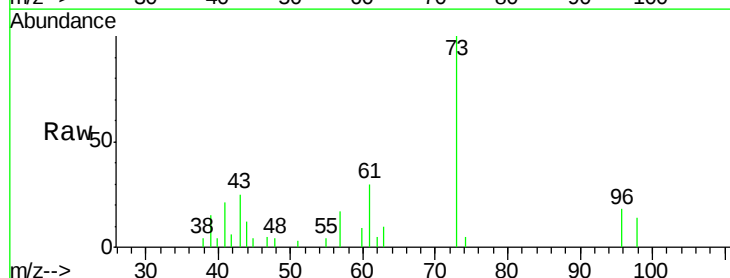
RT: 3.38 min Scan# 636

Delta R.T. 0.00 min

Lab File: VU039648.D

Acq: 23 Jul 2020 20:09

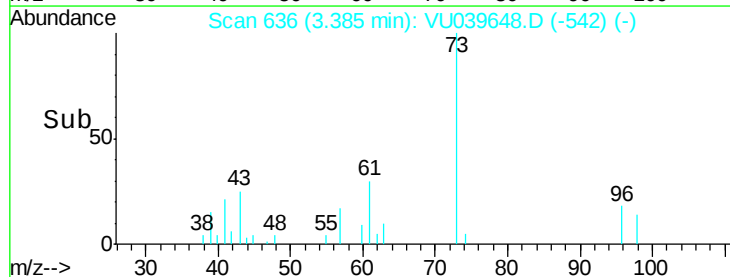
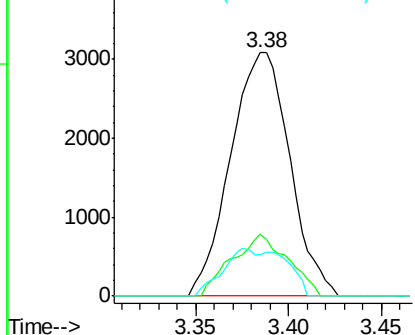
Tgt Ion	Ratio	Lower	Upper
73	100		
43	23.9	18.2	27.2
57	10.6	17.4	26.2#

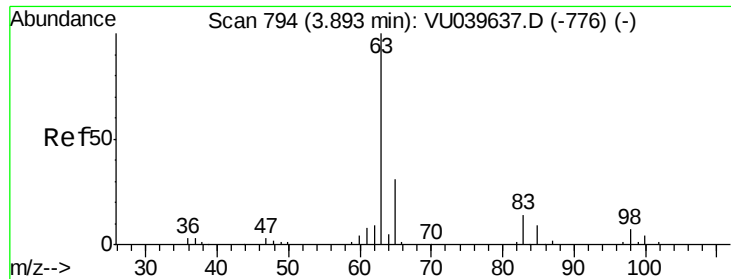


Abundance Ion 73.00 (72.70 to 73.70): VU039648.D (-542) (-)

Ion 43.00 (42.70 to 43.70): VU039648.D (-542) (-)

Ion 57.00 (56.70 to 57.70): VU039648.D (-542) (-)





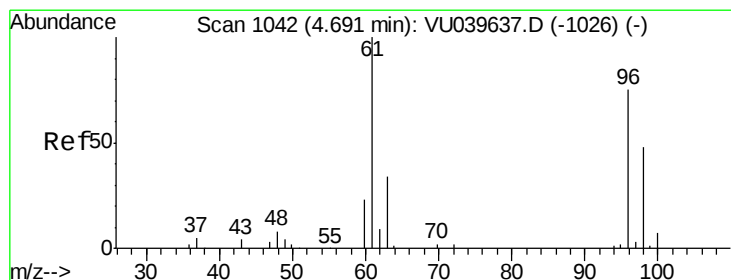
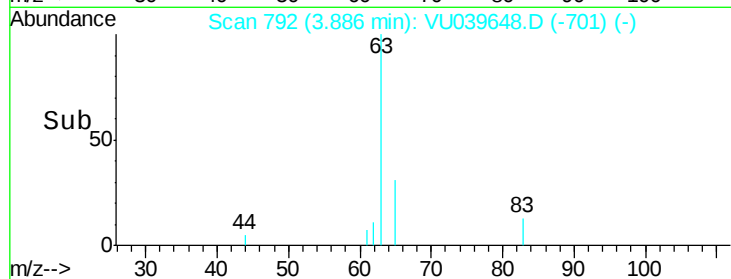
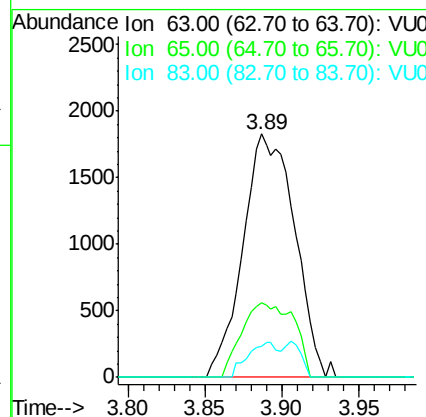
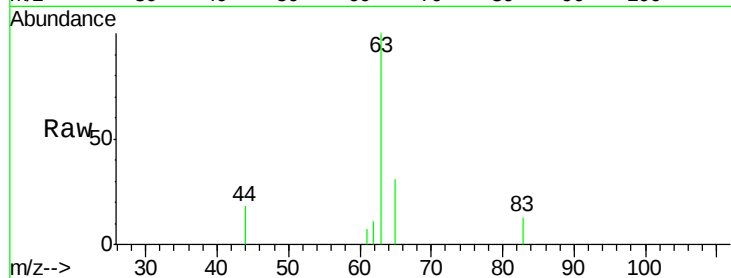
#19
 1,1-Dichloroethane
 Concen: 1.908 ug/L m
 RT: 3.89 min Scan# 792
 Delta R.T. -0.01 min
 Lab File: VU039648.D
 Acq: 23 Jul 2020 20:09

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.8	20.4	38.0
83	12.6	9.7	18.1

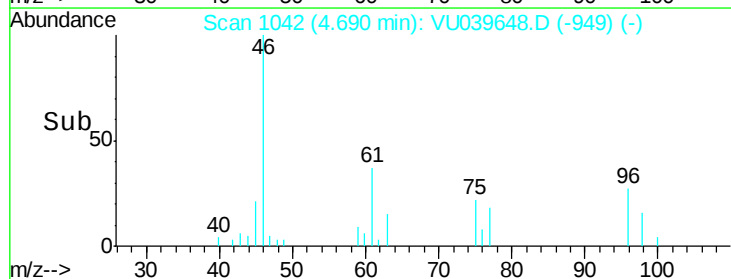
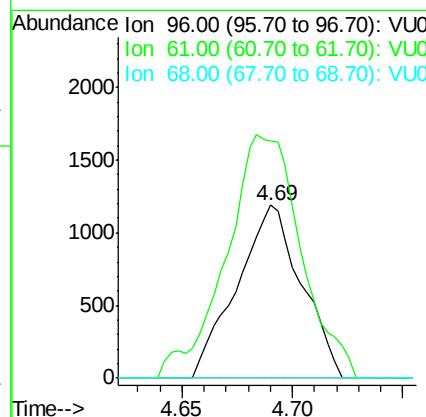
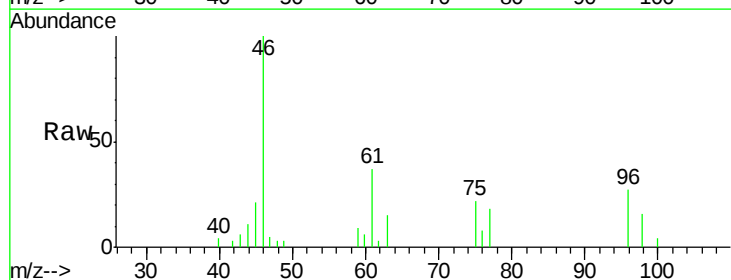
Manual Integrations
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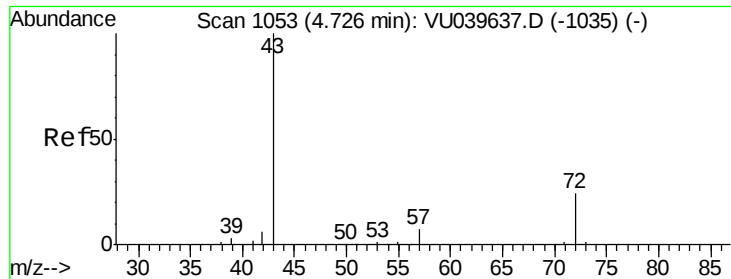
sam
 7/30/2020 2:57:54 AM



#20
 cis-1,2-Dichloroethene
 Concen: 1.839 ug/L
 RT: 4.69 min Scan# 1042
 Delta R.T. -0.00 min
 Lab File: VU039648.D
 Acq: 23 Jul 2020 20:09

Tgt Ion	Ratio	Lower	Upper
96	100		
61	137.1	94.0	174.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.222 ug/L

RT: 4.73 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VU039648.D

Acq: 23 Jul 2020 20:09

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 43 Resp: 5372

Ion Ratio Lower Upper

43 100

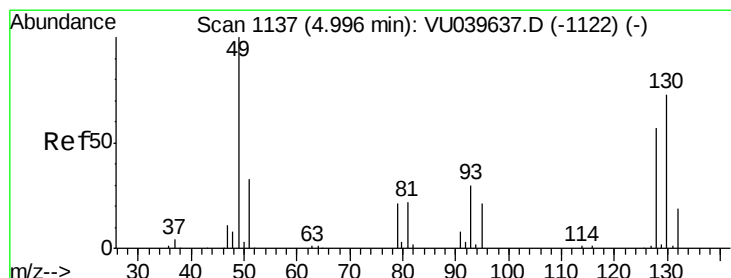
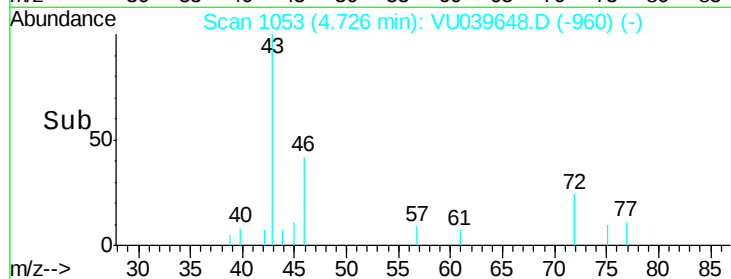
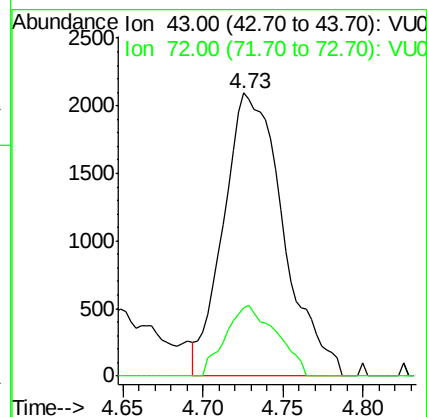
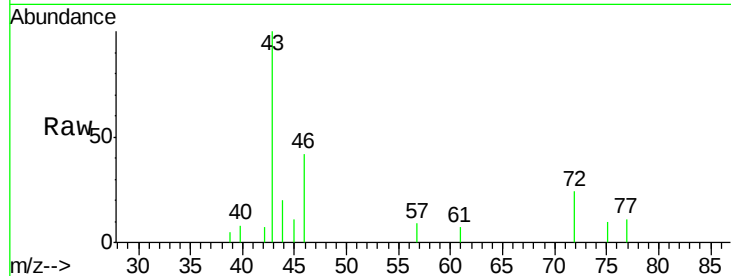
72 21.3 12.8 38.3

Manual Integrations

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sam

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#23

Bromochloromethane

Concen: 1.725 ug/L

RT: 5.00 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VU039648.D

Acq: 23 Jul 2020 20:09

Tgt Ion: 128 Resp: 1135

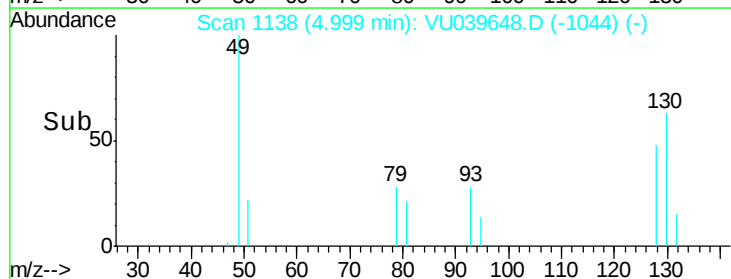
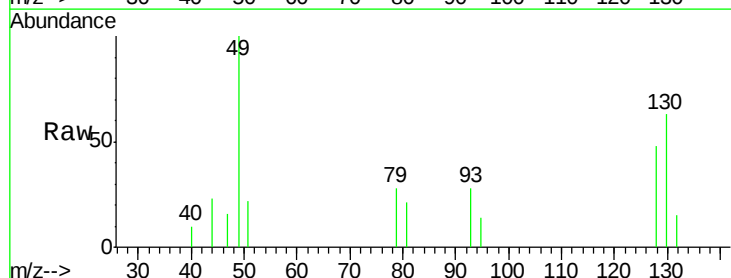
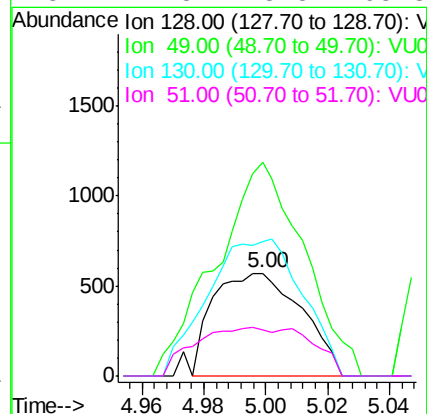
Ion Ratio Lower Upper

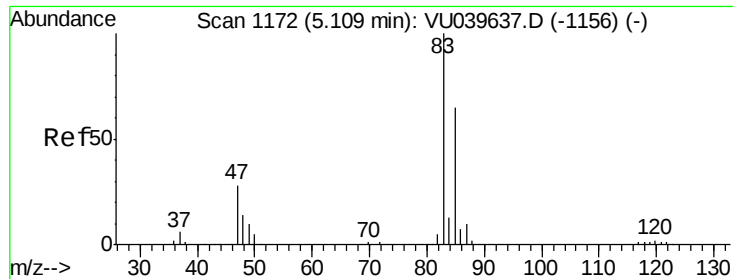
128 100

49 207.3 124.5 231.3

130 130.4 94.4 175.2

51 44.8 43.5 65.3





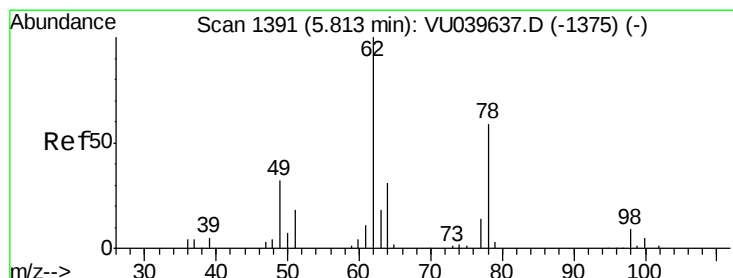
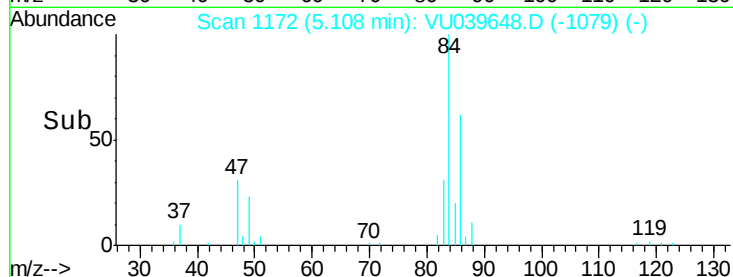
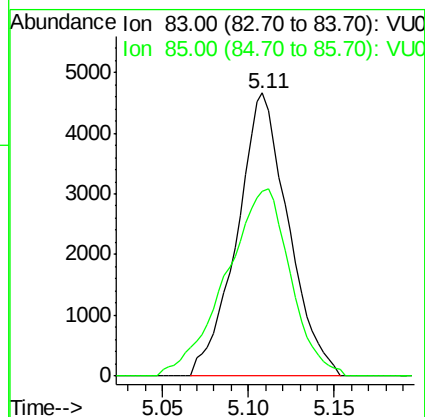
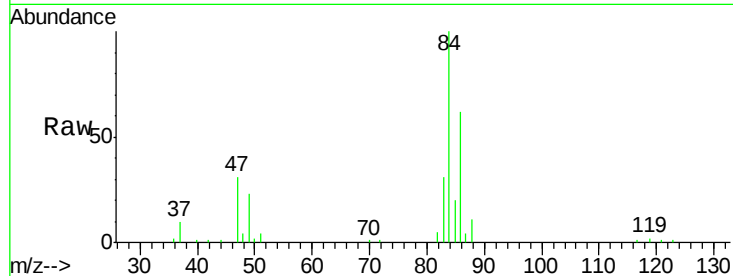
#25
Chloroform
Concen: 3.910 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. -0.00 min
Lab File: VU039648.D
Acq: 23 Jul 2020 20:09

Instrument :
MSVOA_U
ClientSampled :
MDL02

Tot Ion: 83 Resp: 9697
Ion Ratio Lower Upper
83 100
85 65.4 45.6 84.6

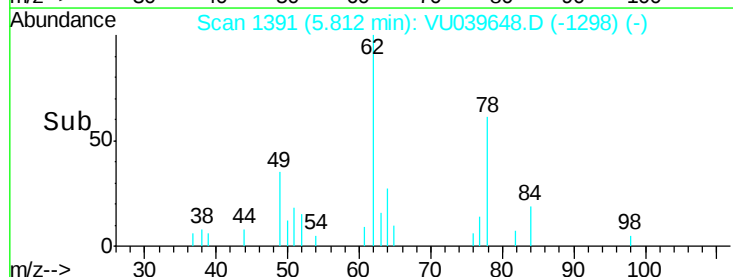
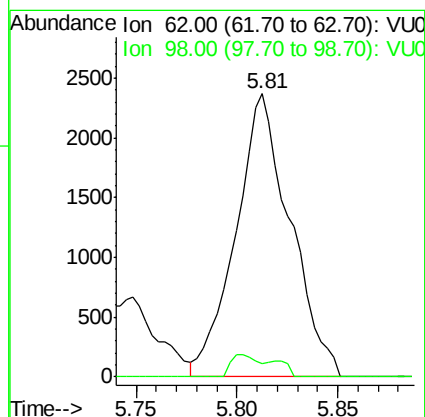
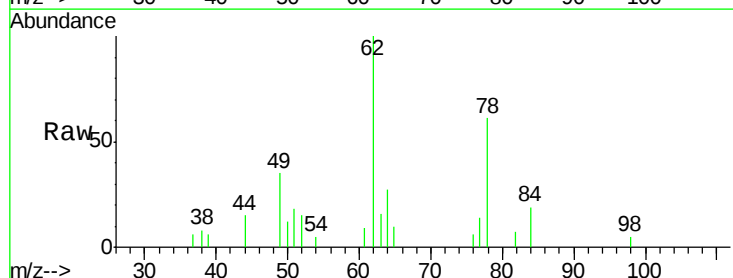
Manual Integrations
APPROVED

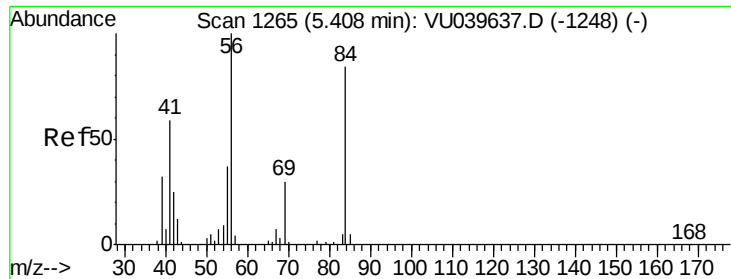
sam
7/30/2020 2:57:54 AM



#27
1,2-Dichloroethane
Concen: 2.169 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. -0.00 min
Lab File: VU039648.D
Acq: 23 Jul 2020 20:09

Tgt Ion: 62 Resp: 4461
Ion Ratio Lower Upper
62 100
98 4.9 6.4 9.6#





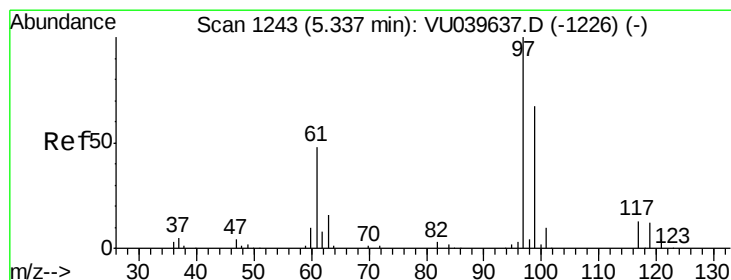
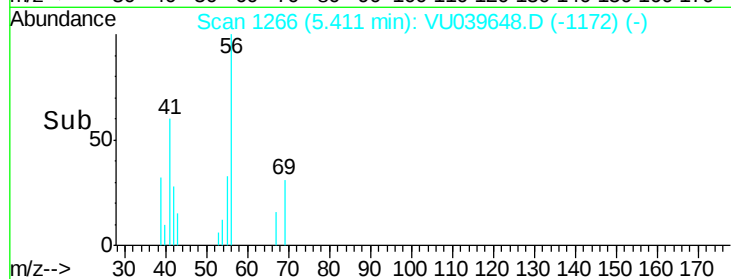
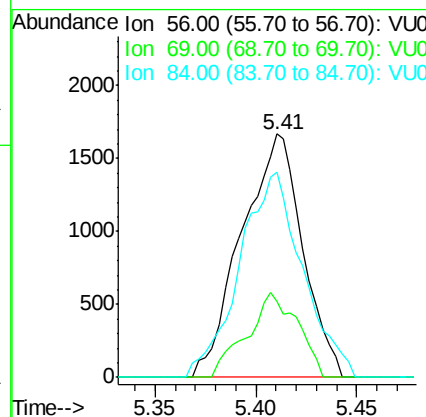
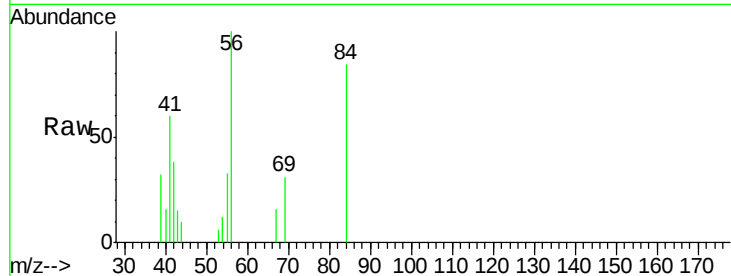
#29
Cyclohexane
Concen: 1.856 ug/L
RT: 5.41 min Scan# 1266
Delta R.T. 0.00 min
Lab File: VU039648.D
Acq: 23 Jul 2020 20:09

Instrument :
MSVOA_U
ClientSampled :
MDL02

Tot Ion	Ratio	Lower	Upper
56	100		
69	20.6	23.9	35.9#
84	87.1	65.8	98.8

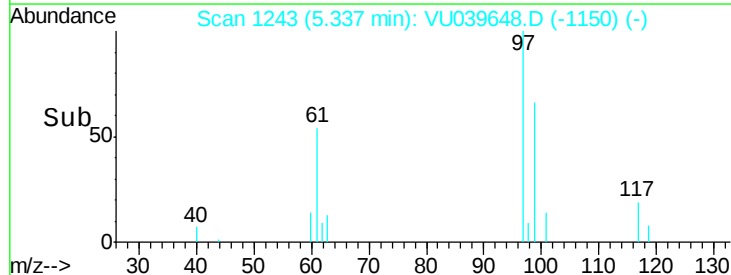
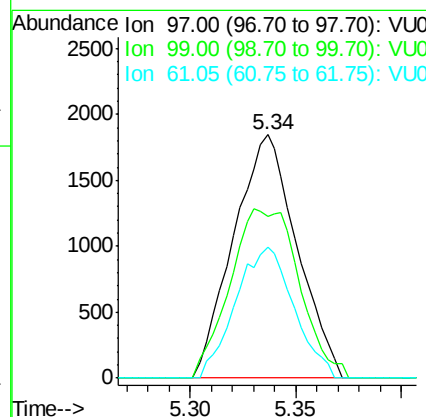
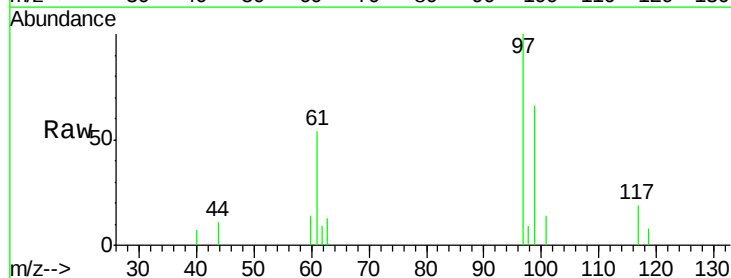
Manual Integrations
APPROVED

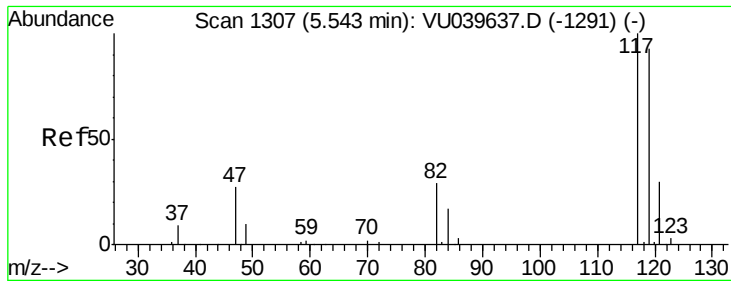
sam
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#30
1,1,1-Trichloroethane
Concen: 1.846 ug/L
RT: 5.34 min Scan# 1243
Delta R.T. -0.00 min
Lab File: VU039648.D
Acq: 23 Jul 2020 20:09

Tgt Ion	Ratio	Lower	Upper
97	100		
99	42.8	50.3	75.5#
61	49.6	36.0	54.0





#31

Carbon tetrachloride

Concen: 1.788 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VU039648.D

Acq: 23 Jul 2020 20:09

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion:117 Resp: 3093

Ion Ratio Lower Upper

117 100

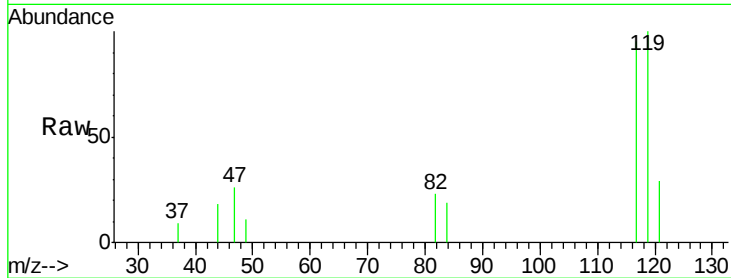
119 110.4 78.2 117.4

Manual Integrations

APPROVED

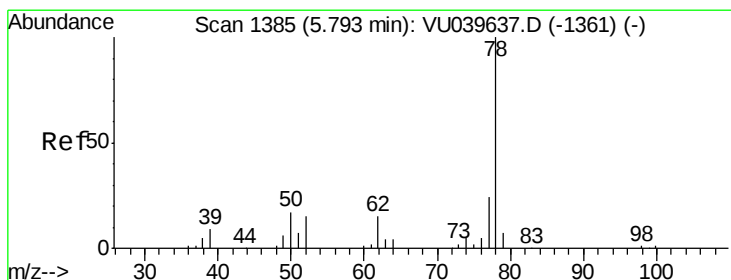
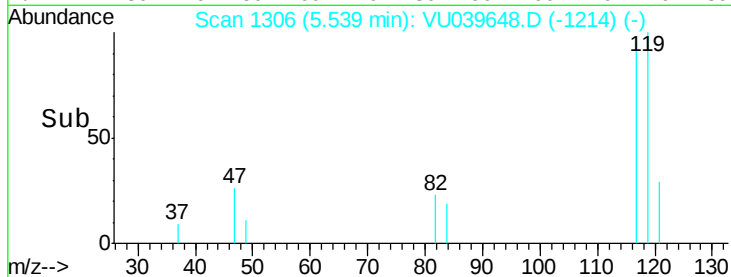
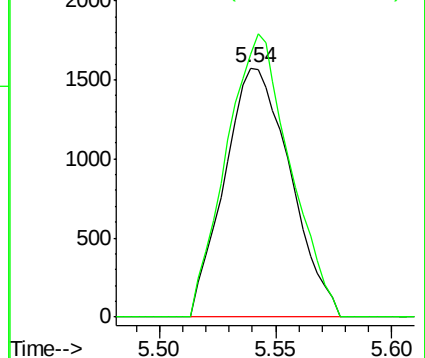
sam

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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: 2.020 ug/L

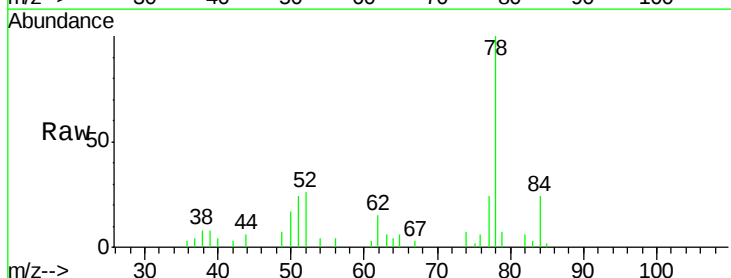
RT: 5.79 min Scan# 1385

Delta R.T. -0.00 min

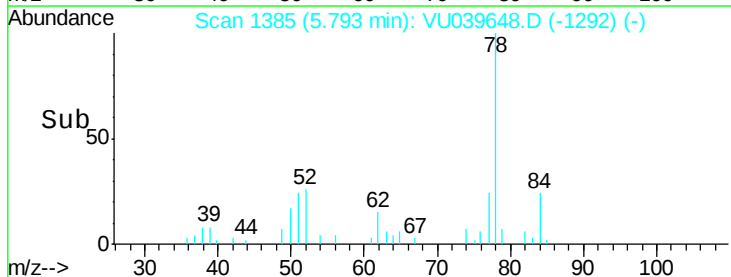
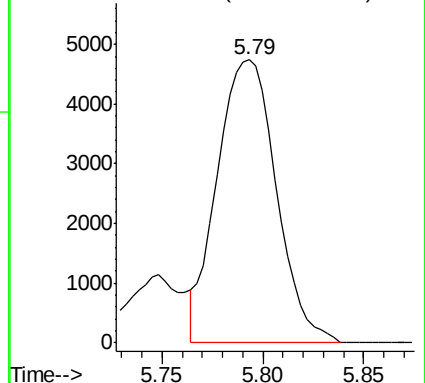
Lab File: VU039648.D

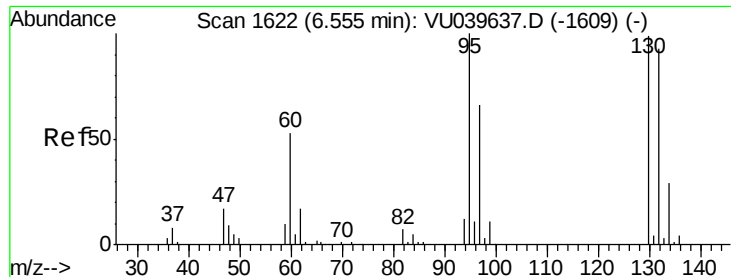
Acq: 23 Jul 2020 20:09

Tgt Ion: 78 Resp: 9697



Abundance Ion 78.00 (77.70 to 78.70): VU0





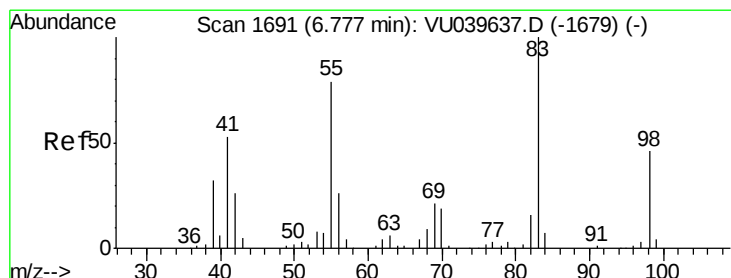
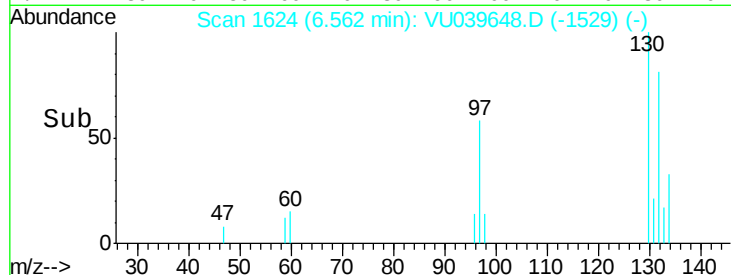
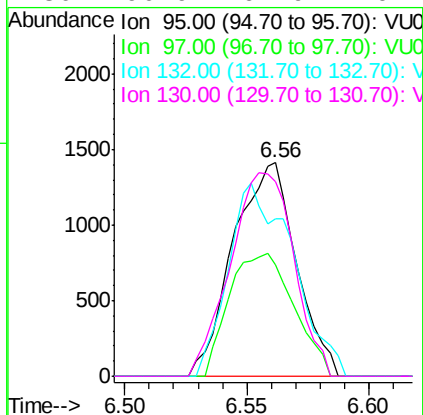
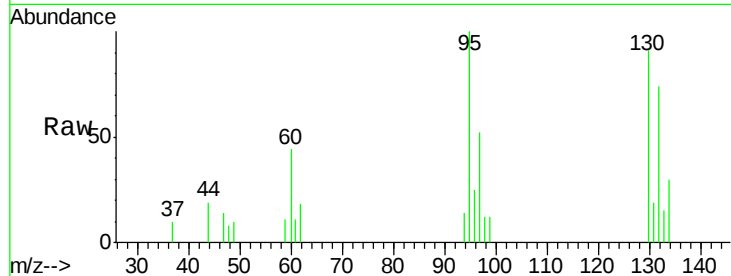
#34
 Trichloroethene
 Concen: 1.993 ug/L
 RT: 6.56 min Scan# 1624
 Delta R.T. 0.01 min
 Lab File: VU039648.D
 Acq: 23 Jul 2020 20:09

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tot Ion	Ratio	Lower	Upper
95	100		
97	52.3	45.5	84.5
132	73.7	65.0	120.6
130	90.9	67.9	126.1

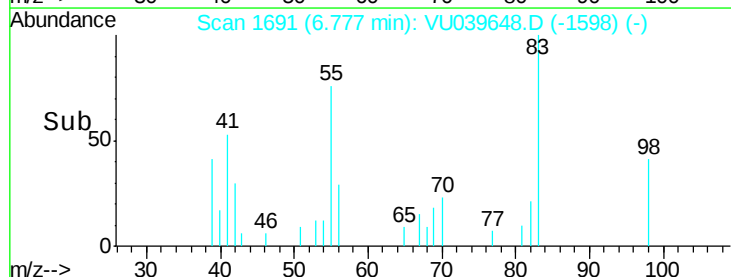
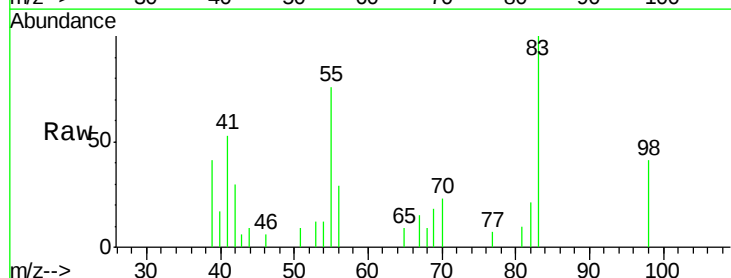
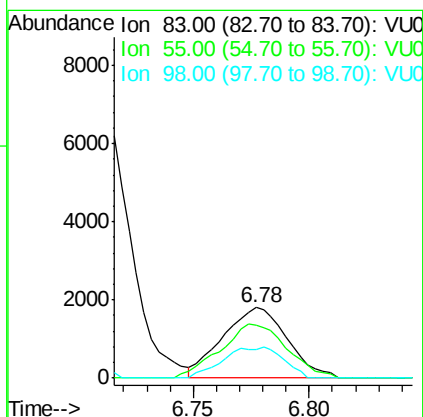
Manual Integrations
 APPROVED

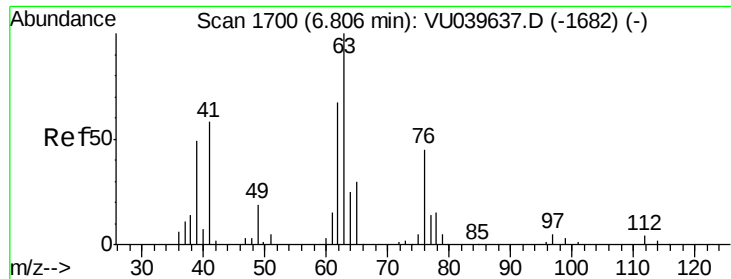
sam
 7/30/2020 2:57:54 AM



#35
 Methylcyclohexane
 Concen: 1.783 ug/L
 RT: 6.78 min Scan# 1691
 Delta R.T. -0.00 min
 Lab File: VU039648.D
 Acq: 23 Jul 2020 20:09

Tgt Ion	Ratio	Lower	Upper
83	100		
55	77.9	62.9	94.3
98	20.1	36.3	54.5





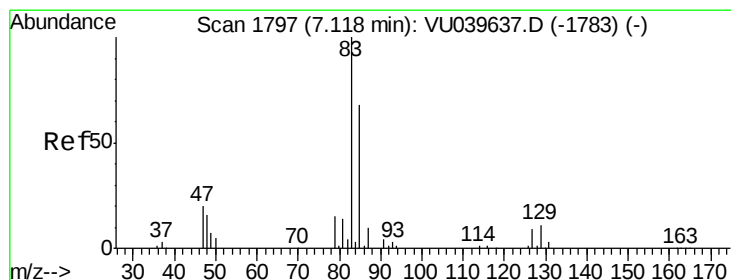
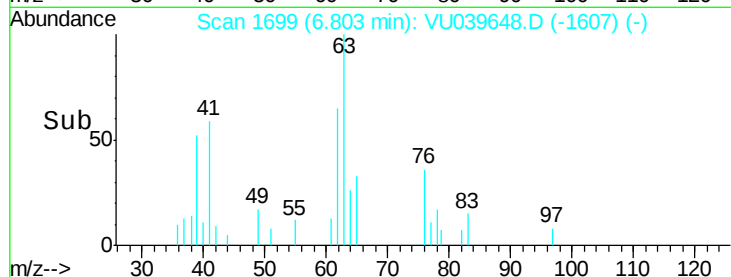
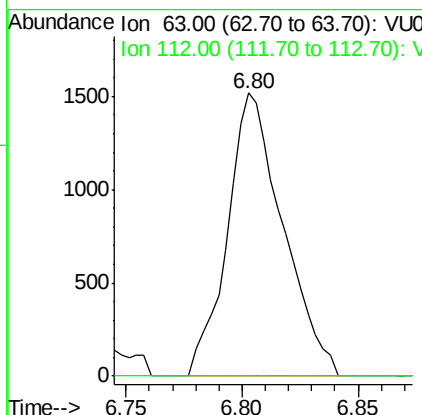
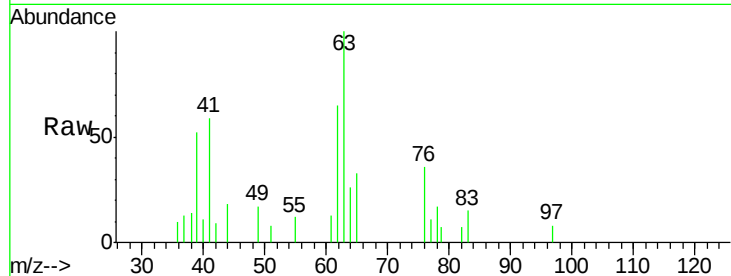
#37
 1,2-Dichloropropane
 Concen: 1.937 ug/L
 RT: 6.80 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VU039648.D
 Acq: 23 Jul 2020 20:09

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion: 63 Resp: 2517
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.0 4.4#

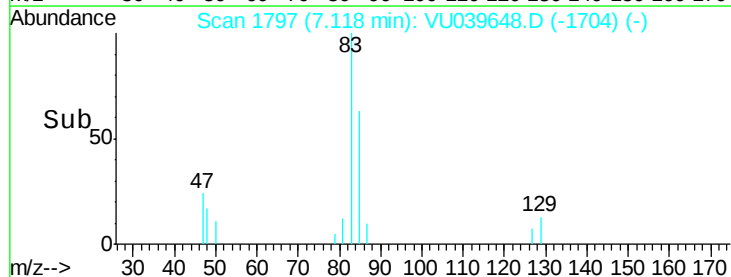
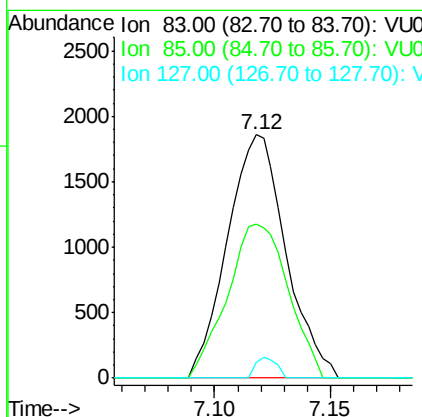
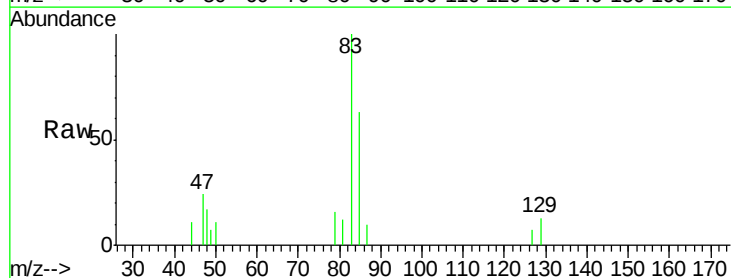
Manual Integrations
 APPROVED

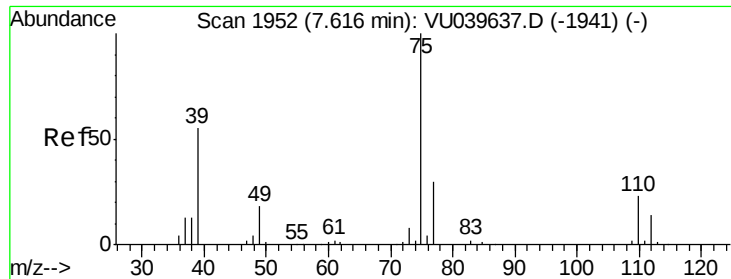
sam
 7/30/2020 2:57:54 AM



#38
 Bromodichloromethane
 Concen: 1.885 ug/L
 RT: 7.12 min Scan# 1797
 Delta R.T. -0.00 min
 Lab File: VU039648.D
 Acq: 23 Jul 2020 20:09

Tgt Ion: 83 Resp: 3253
 Ion Ratio Lower Upper
 83 100
 85 63.1 45.9 85.3
 127 6.7 7.4 11.2#





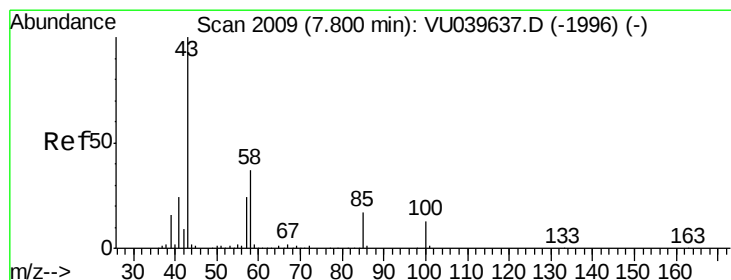
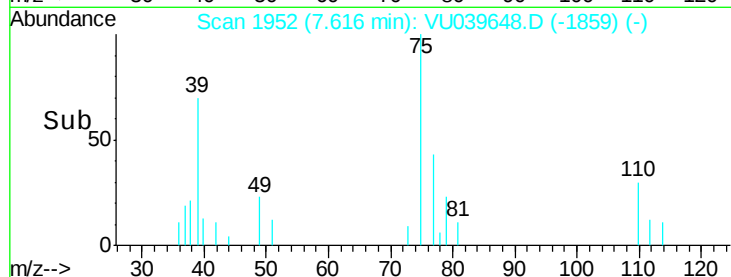
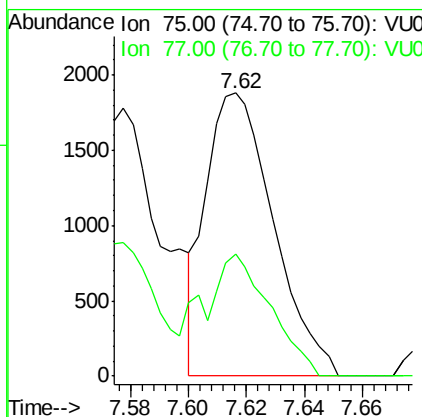
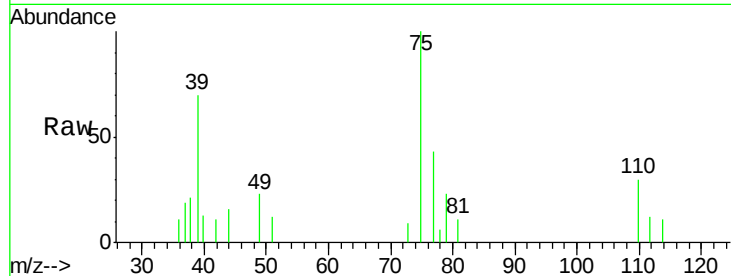
#39
 cis-1,3-Dichloropropene
 Concen: 1.563 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. -0.00 min
 Lab File: VU039648.D
 Acq: 23 Jul 2020 20:09

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tot Ion: 75 Resp: 3036
 Ion Ratio Lower Upper
 75 100
 77 42.9 21.8 40.6#

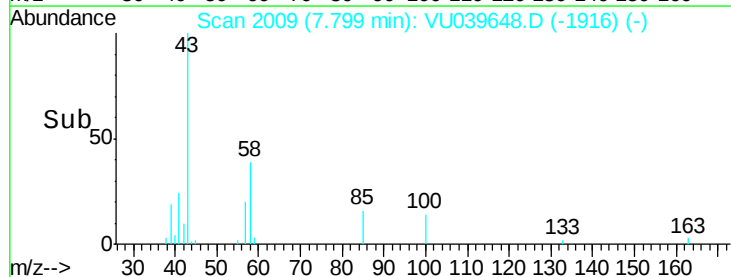
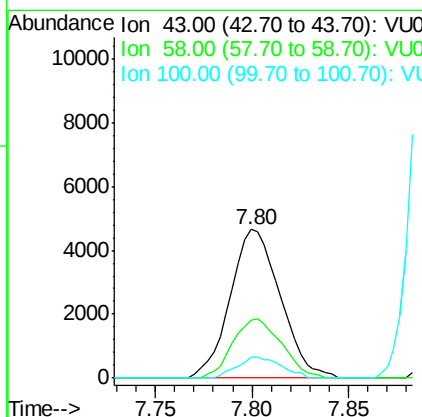
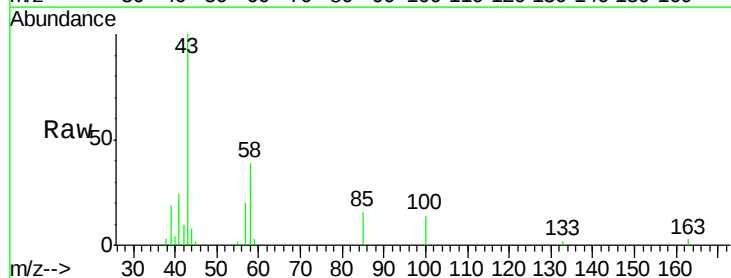
Manual Integrations
 APPROVED

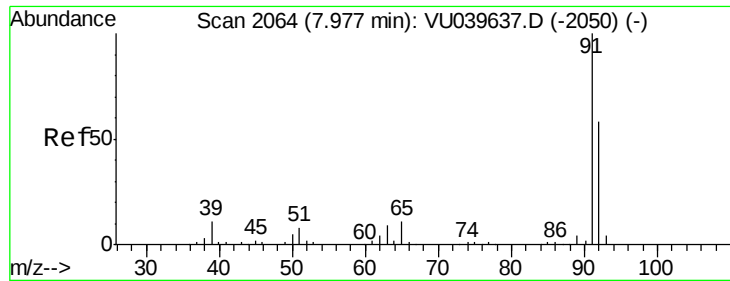
sam
 7/30/2020 2:57:54 AM



#40
 4-Methyl-2-pentanone
 Concen: 3.704 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. -0.00 min
 Lab File: VU039648.D
 Acq: 23 Jul 2020 20:09

Tgt Ion: 43 Resp: 8387
 Ion Ratio Lower Upper
 43 100
 58 38.6 29.1 43.7
 100 12.4 10.6 16.0





#42

Toluene

Concen: 1.842 ug/L

RT: 7.98 min Scan# 2065

Delta R.T. 0.00 min

Lab File: VU039648.D

Acq: 23 Jul 2020 20:09

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 91 Resp: 9722

Ion Ratio Lower Upper

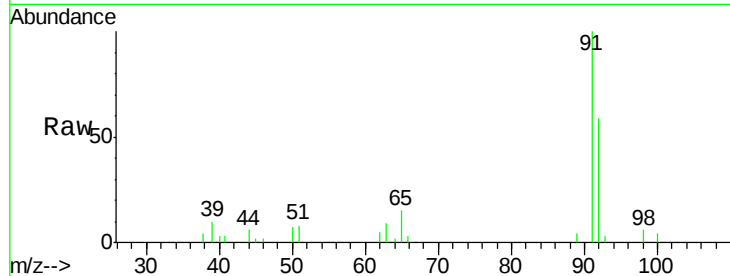
91 100

92 59.3 40.1 74.5

Manual Integrations
APPROVED

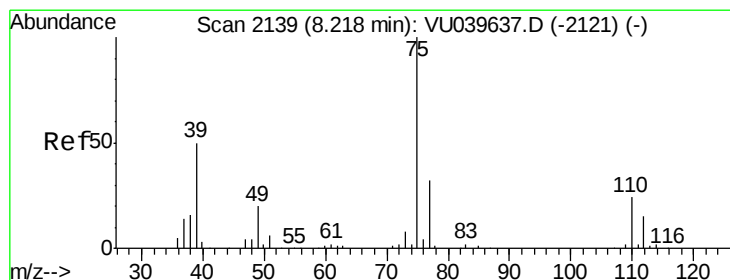
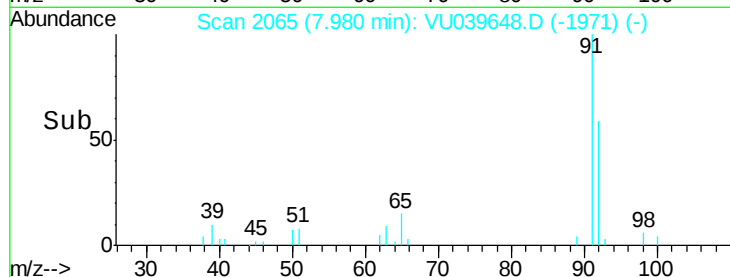
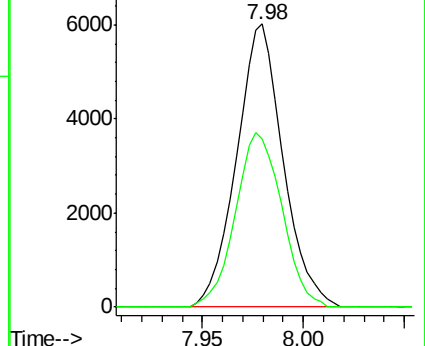
sam

7/30/2020 2:57:54 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: 1.776 ug/L

RT: 8.22 min Scan# 2140

Delta R.T. 0.00 min

Lab File: VU039648.D

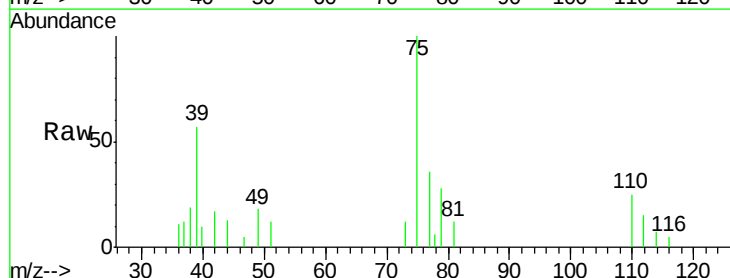
Acq: 23 Jul 2020 20:09

Tgt Ion: 75 Resp: 3378

Ion Ratio Lower Upper

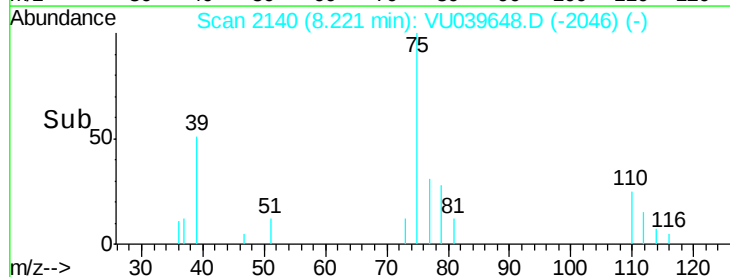
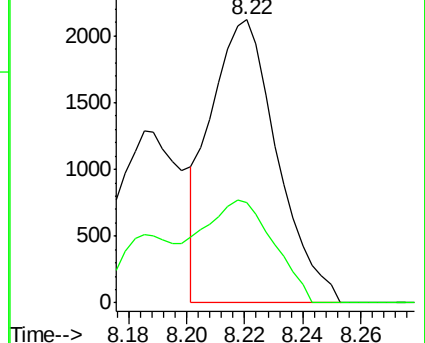
75 100

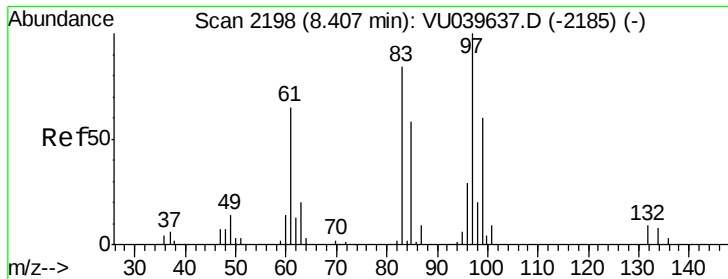
77 35.5 22.7 42.1



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

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





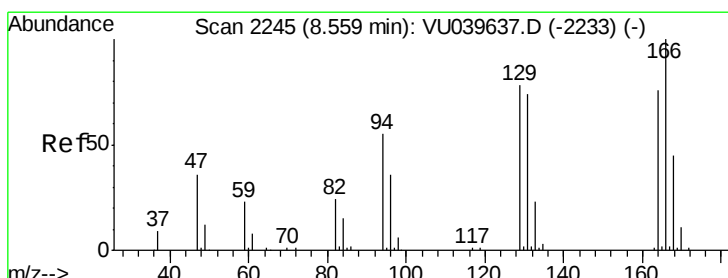
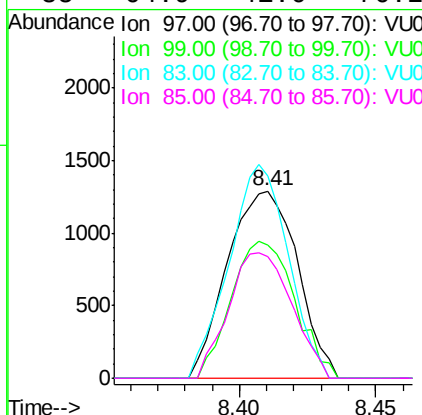
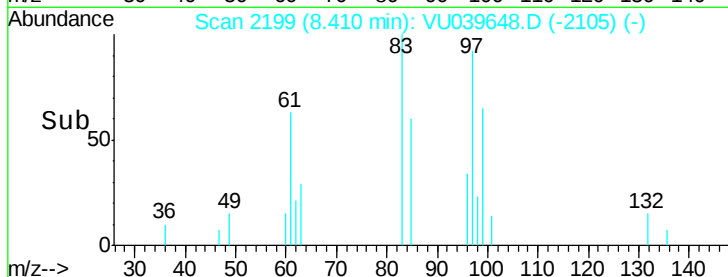
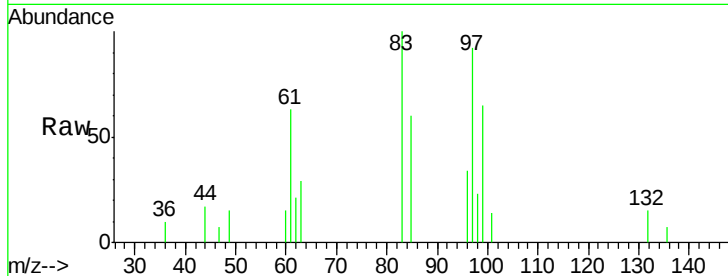
#45
1,1,2-Trichloroethane
Concen: 1.855 ug/L
RT: 8.41 min Scan# 2199
Delta R.T. 0.00 min
Lab File: VU039648.D
Acq: 23 Jul 2020 20:09

Instrument :
MSVOA_U
ClientSampled :
MDL02

Tot Ion:	97	Resp:	2299
Ion	Ratio	Lower	Upper
97	100		
99	70.8	45.1	83.9
83	108.1	62.7	116.5
85	64.9	41.0	76.2

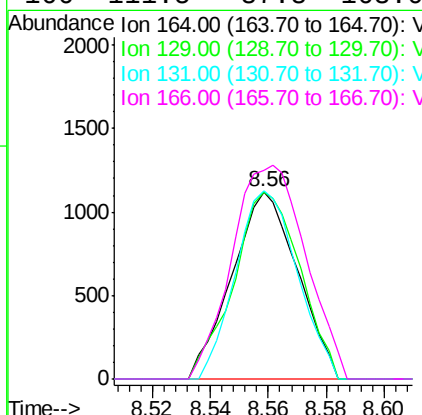
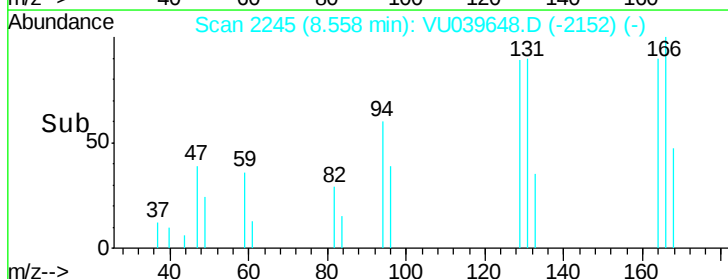
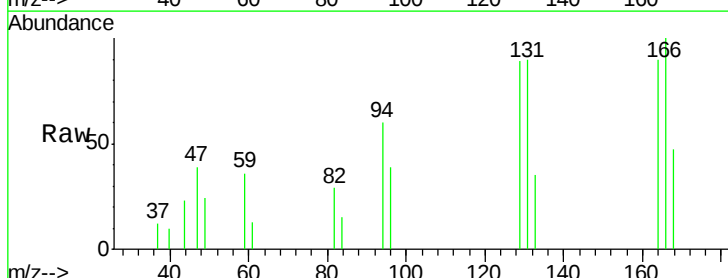
Manual Integrations
APPROVED

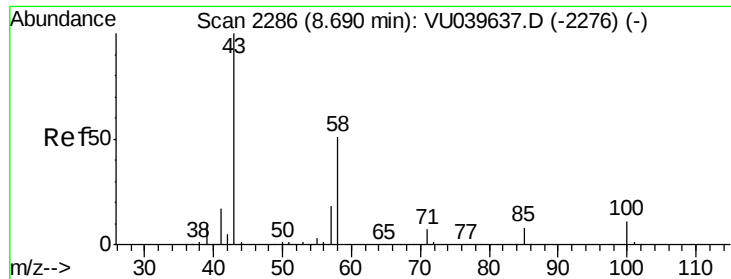
sam
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#46
Tetrachloroethene
Concen: 1.823 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. -0.00 min
Lab File: VU039648.D
Acq: 23 Jul 2020 20:09

Tgt Ion:	164	Resp:	1751
Ion	Ratio	Lower	Upper
164	100		
129	99.6	71.1	132.1
131	100.4	70.3	130.5
166	111.5	87.8	163.0





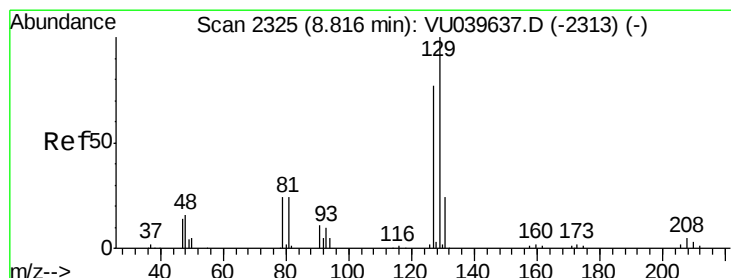
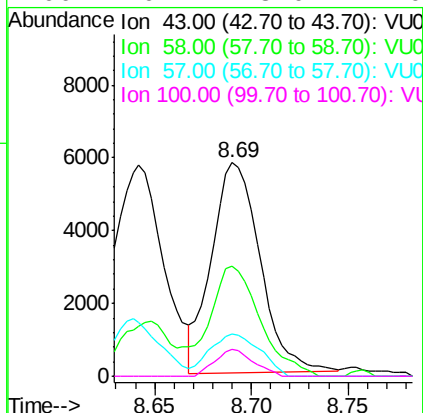
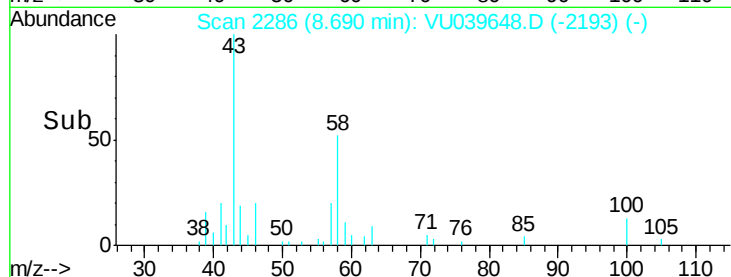
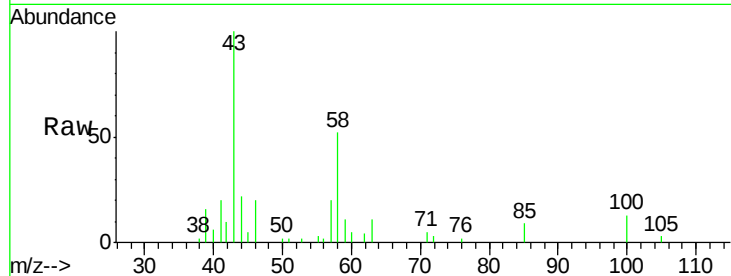
#48
2-Hexanone
Concen: 5.516 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. -0.00 min
Lab File: VU039648.D
Acq: 23 Jul 2020 20:09

Instrument :
MSVOA_U
ClientSampled :
MDL02

Tot Ion:	43	Resp:	10177
Ion Ratio	Lower	Upper	
43	100		
58	51.4	40.6	61.0
57	20.7	14.5	21.7
100	10.1	8.0	12.0

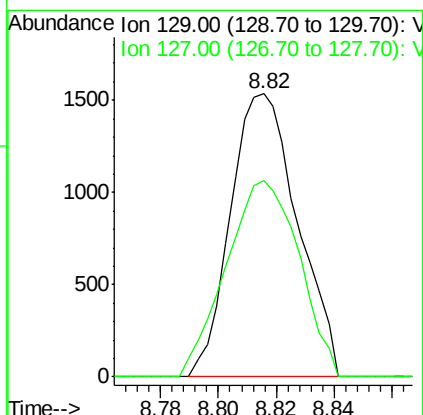
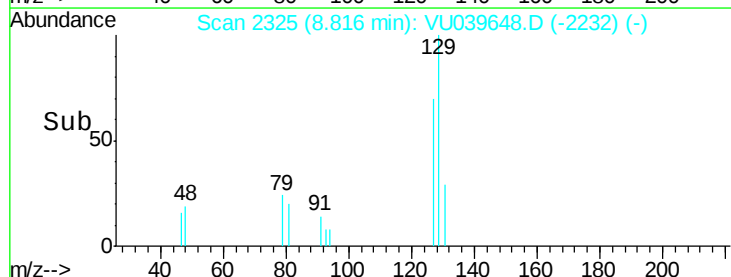
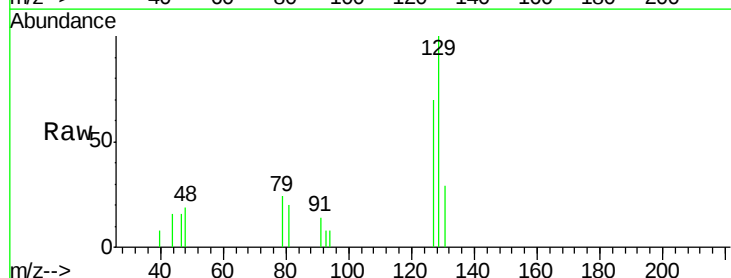
Manual Integrations
APPROVED

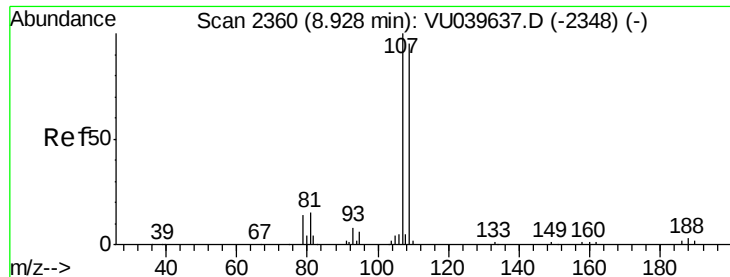
sam
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#49
Dibromochloromethane
Concen: 1.759 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. -0.00 min
Lab File: VU039648.D
Acq: 23 Jul 2020 20:09

Tgt Ion:	129	Resp:	2462
Ion Ratio	Lower	Upper	
129	100		
127	69.6	54.3	100.9





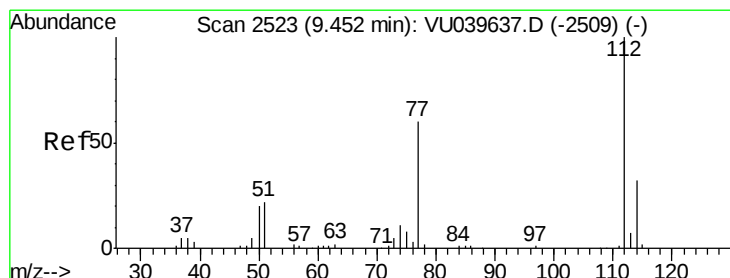
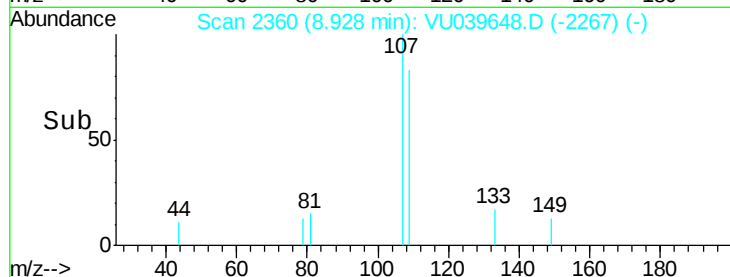
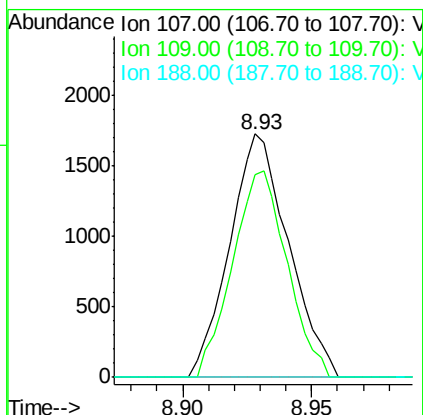
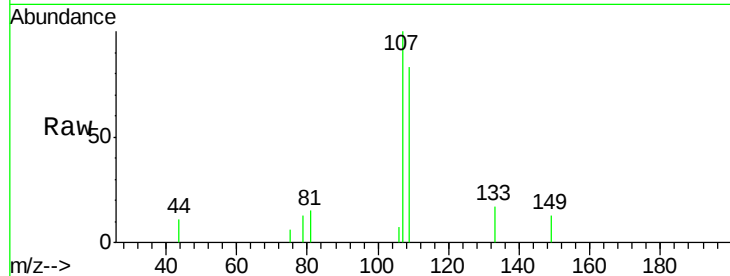
#50
 1,2-Dibromoethane
 Concen: 1.991 ug/L
 RT: 8.93 min Scan# 2360
 Delta R.T. -0.00 min
 Lab File: VU039648.D
 Acq: 23 Jul 2020 20:09

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
107	100		
109	83.3	66.8	124.2
188	0.0	3.0	4.4#

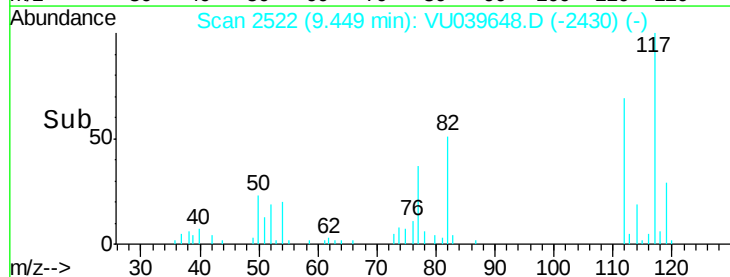
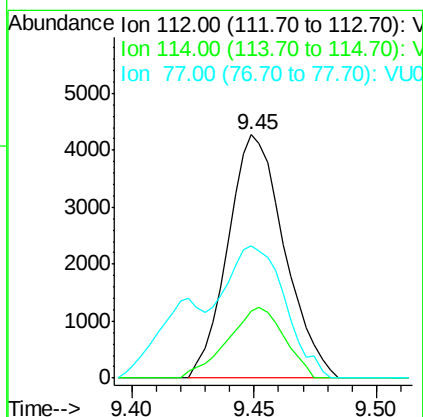
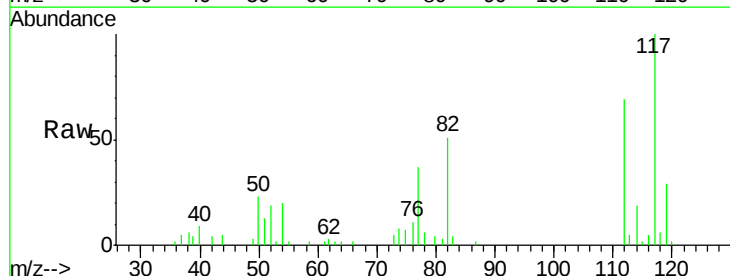
Manual Integrations
 APPROVED

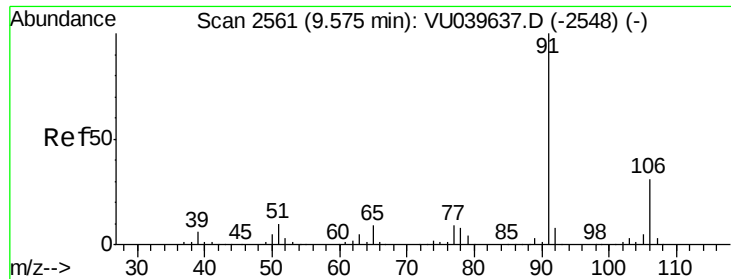
sam
 7/30/2020 2:57:54 AM



#51
 Chlorobenzene
 Concen: 2.035 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. -0.00 min
 Lab File: VU039648.D
 Acq: 23 Jul 2020 20:09

Tgt Ion	Ratio	Lower	Upper
112	100		
114	27.4	22.9	42.5
77	54.4	49.4	74.0





#52

Ethylbenzene

Concen: 1.788 ug/L

RT: 9.57 min Scan# 2561

Delta R.T. -0.00 min

Lab File: VU039648.D

Acq: 23 Jul 2020 20:09

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 91 Resp: 10433

Ion Ratio Lower Upper

91 100

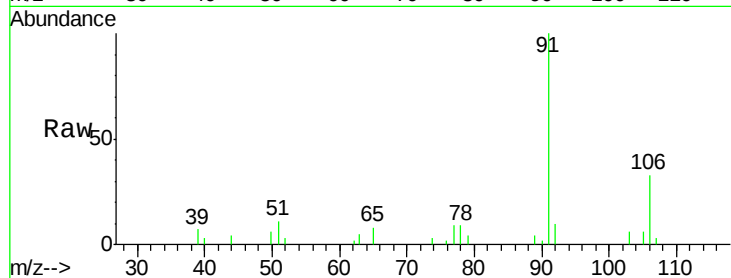
106 32.7 21.1 39.1

Manual Integrations

APPROVED

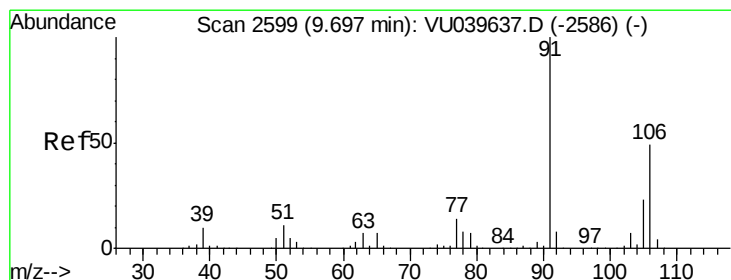
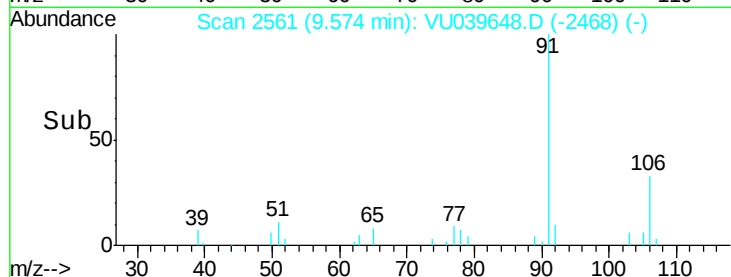
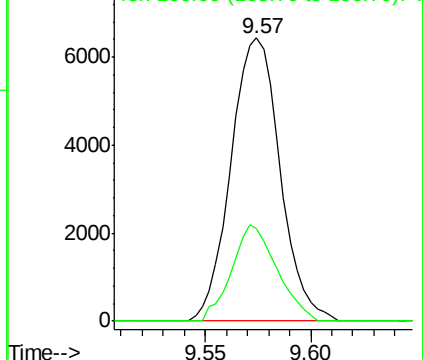
sam

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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) (-)



#53

m,p-Xylene

Concen: 1.829 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. -0.00 min

Lab File: VU039648.D

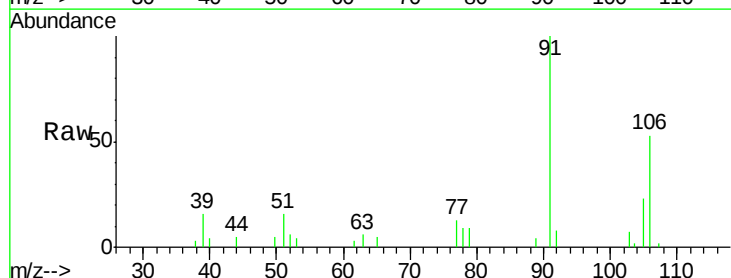
Acq: 23 Jul 2020 20:09

Tgt Ion: 106 Resp: 4021

Ion Ratio Lower Upper

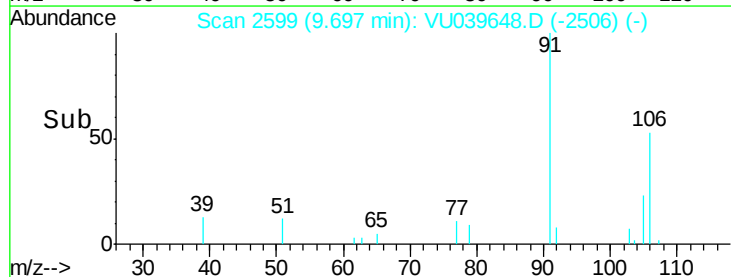
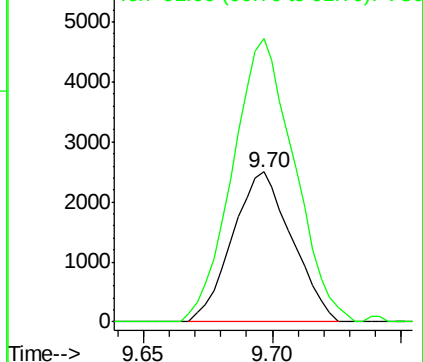
106 100

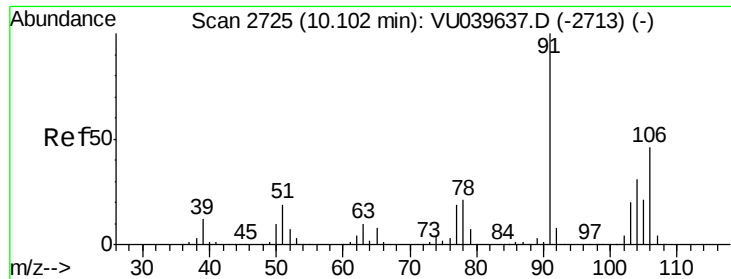
91 188.8 149.7 277.9



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: 1.765 ug/L

RT: 10.10 min Scan# 2726

Delta R.T. 0.00 min

Lab File: VU039648.D

Acq: 23 Jul 2020 20:09

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion:106 Resp: 3725

Ion Ratio Lower Upper

106 100

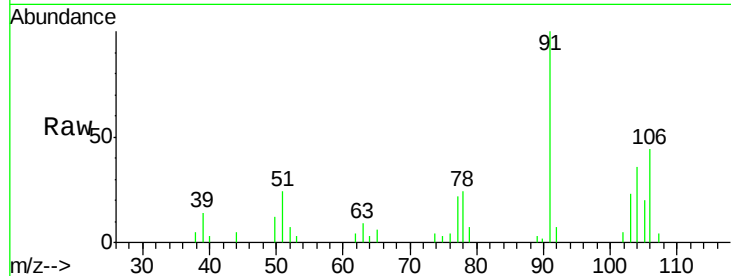
91 228.4 155.1 288.1

Manual Integrations

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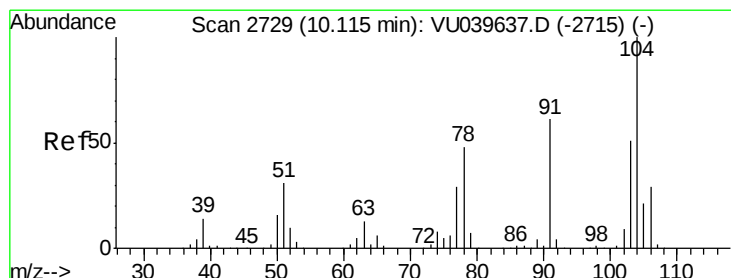
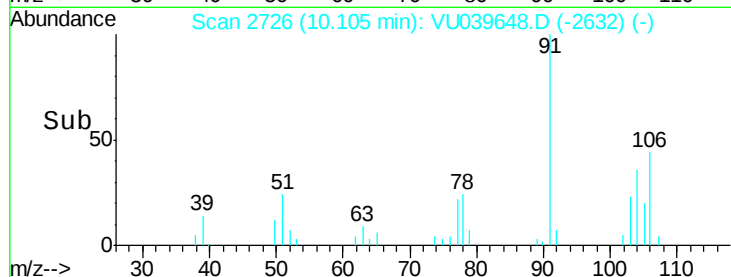
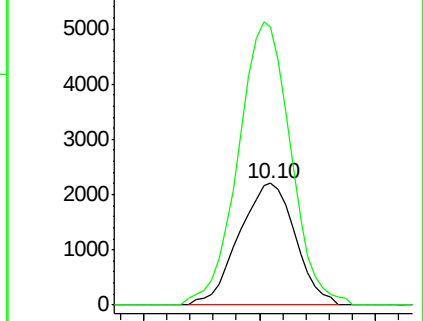
sam

7/30/2020 2:57:54 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.630 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. -0.00 min

Lab File: VU039648.D

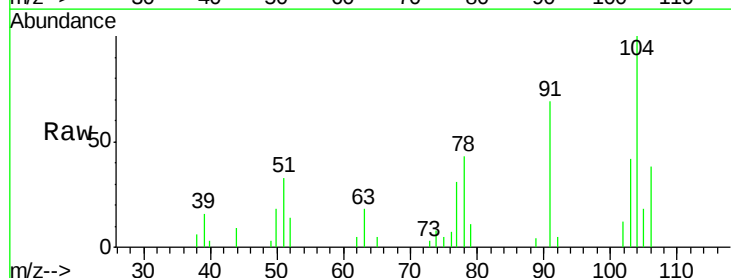
Acq: 23 Jul 2020 20:09

Tgt Ion:104 Resp: 5951

Ion Ratio Lower Upper

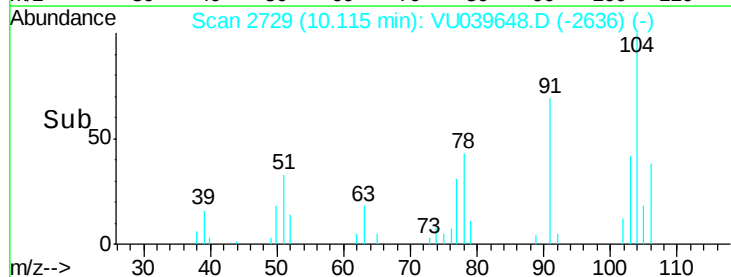
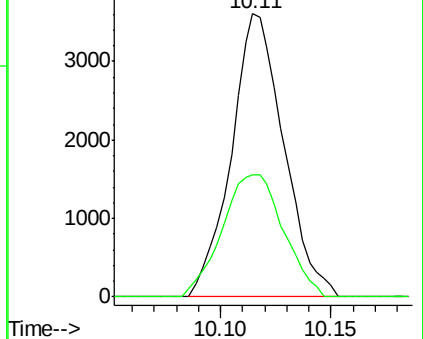
104 100

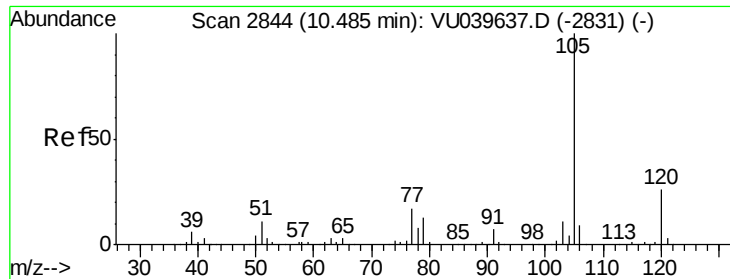
78 43.1 34.3 63.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 1.729 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. -0.00 min

Lab File: VU039648.D

Acq: 23 Jul 2020 20:09

Instrument :

MSVOA_U

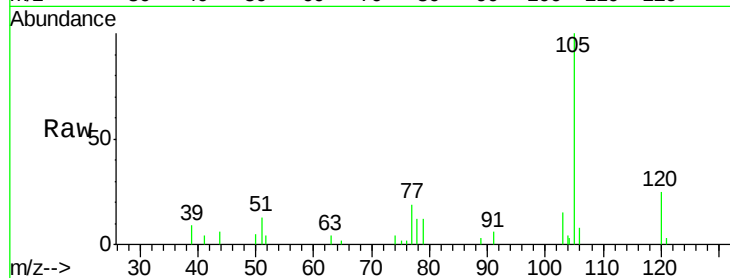
ClientSampleId :

MDL02

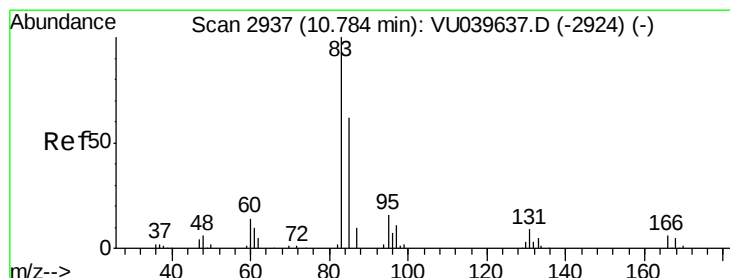
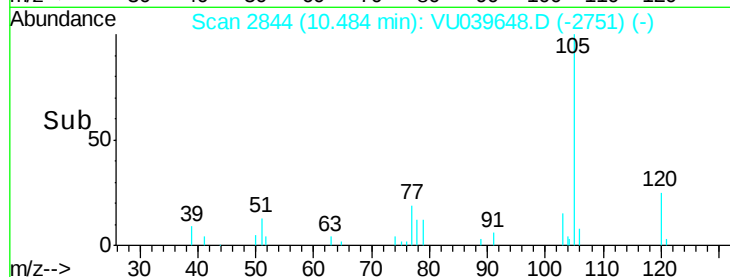
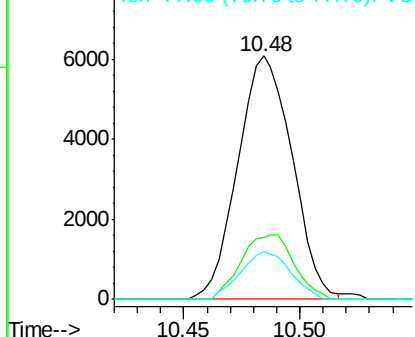
Tot Ion:	105	Resp:	9906
Ion Ratio	Lower	Upper	
105	100		
120	26.1	20.6	31.0
77	18.0	13.4	20.2

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Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V
Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 1.999 ug/L

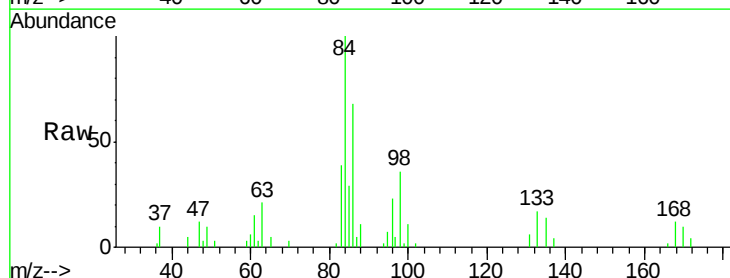
RT: 10.78 min Scan# 2936

Delta R.T. -0.00 min

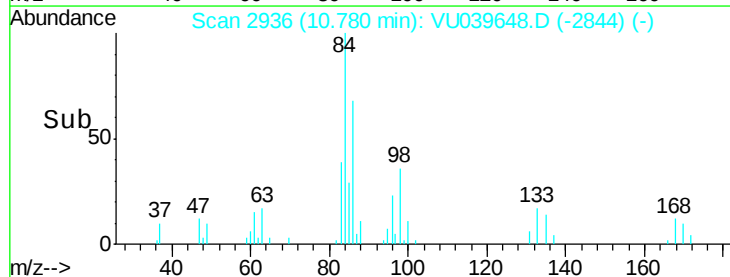
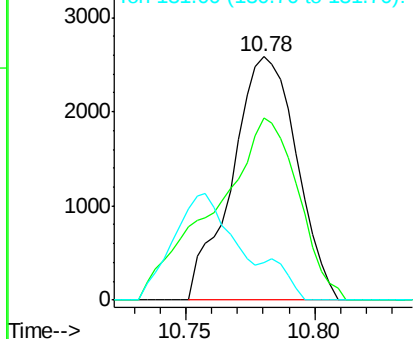
Lab File: VU039648.D

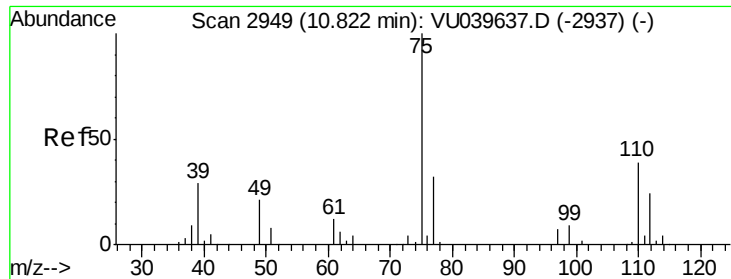
Acq: 23 Jul 2020 20:09

Tgt Ion:	83	Resp:	4515
Ion Ratio	Lower	Upper	
83	100		
85	74.7	46.4	86.2
131	15.4	7.8	11.6#



Abundance Ion 83.00 (82.70 to 83.70): VU
Ion 85.00 (84.70 to 85.70): VU
Ion 131.00 (130.70 to 131.70): V





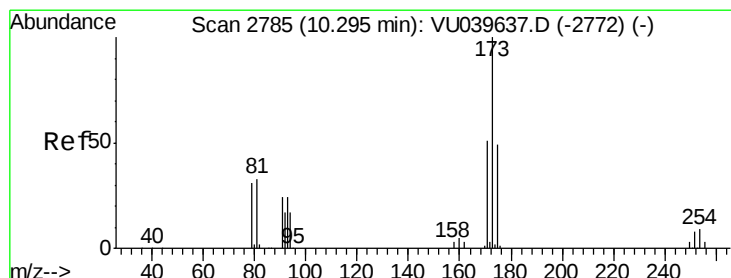
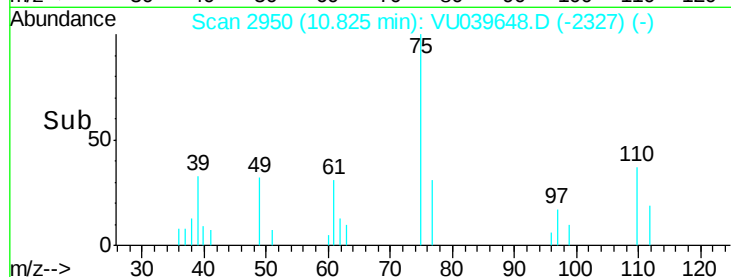
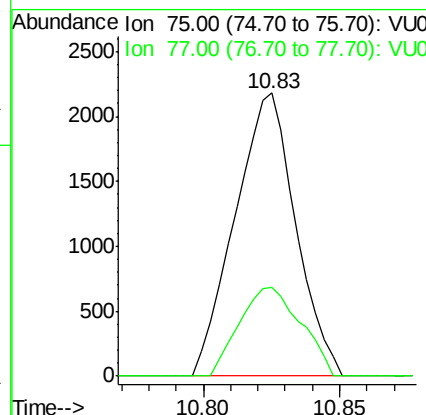
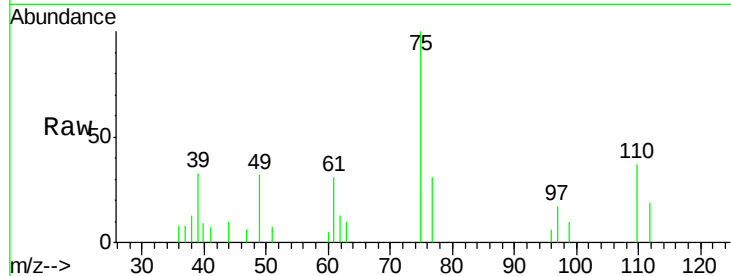
#59
1,2,3-Trichloropropane
Concen: 1.780 ug/L
RT: 10.83 min Scan# 2950
Delta R.T. 0.00 min
Lab File: VU039648.D
Acq: 23 Jul 2020 20:09

Instrument :
MSVOA_U
ClientSampled :
MDL02

Tot Ion: 75 Resp: 3356
Ion Ratio Lower Upper
75 100
77 31.9 25.4 38.2

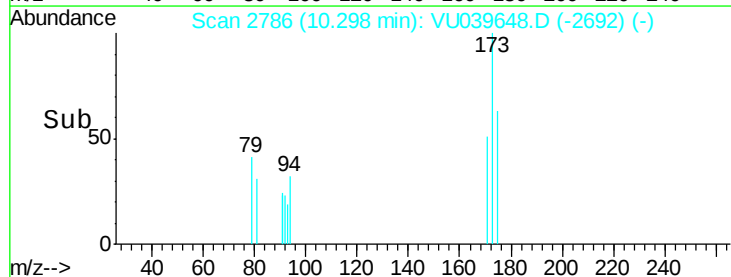
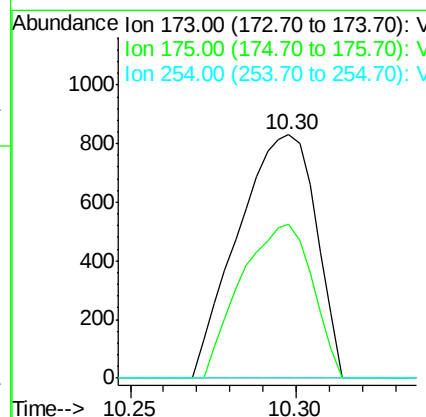
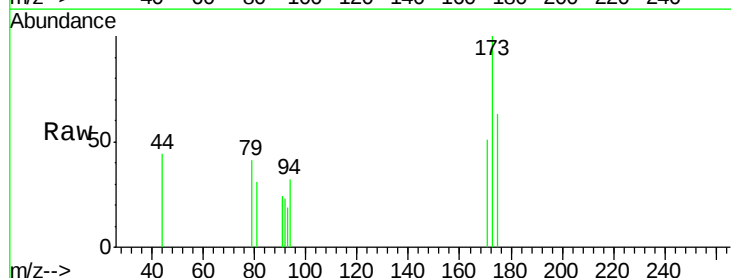
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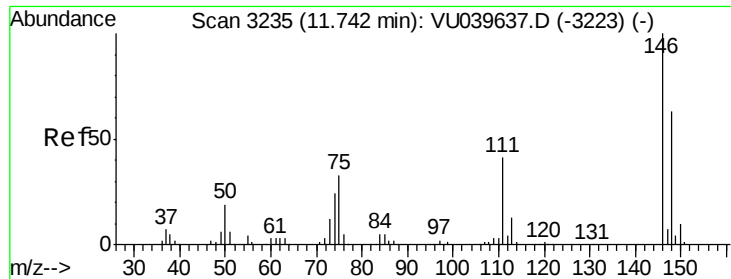
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#61
Bromoform
Concen: 1.435 ug/L
RT: 10.30 min Scan# 2786
Delta R.T. 0.00 min
Lab File: VU039648.D
Acq: 23 Jul 2020 20:09

Tgt Ion: 173 Resp: 1355
Ion Ratio Lower Upper
173 100
175 58.2 38.4 57.6#
254 0.0 7.0 10.6#





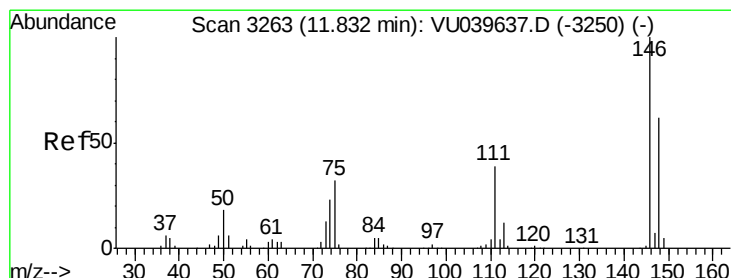
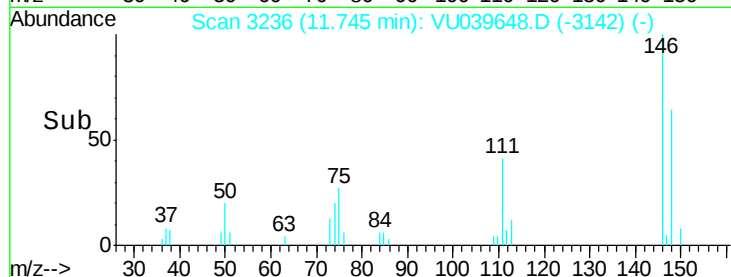
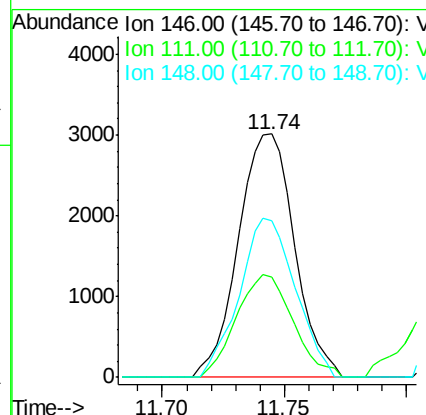
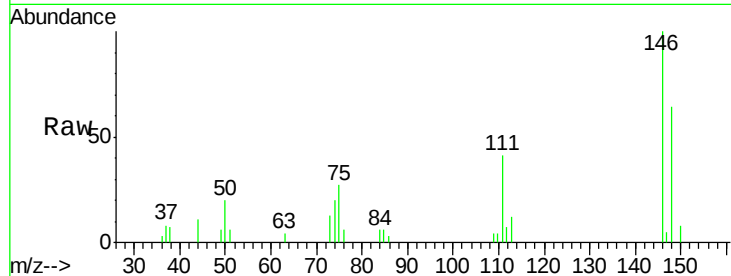
#62
 1,3-Dichlorobenzene
 Concen: 1.971 ug/L
 RT: 11.74 min Scan# 3236
 Delta R.T. 0.00 min
 Lab File: VU039648.D
 Acq: 23 Jul 2020 20:09

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.0	29.3	54.3
148	64.1	46.1	85.5

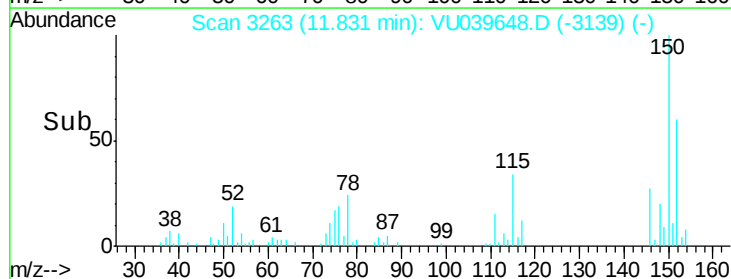
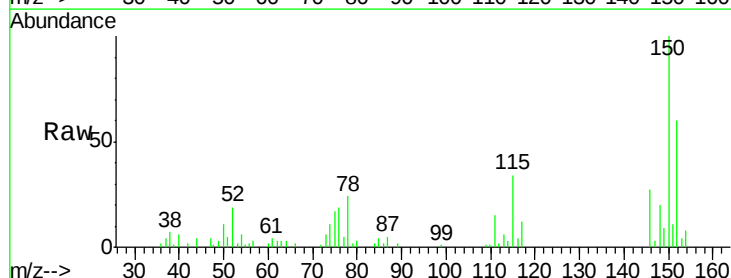
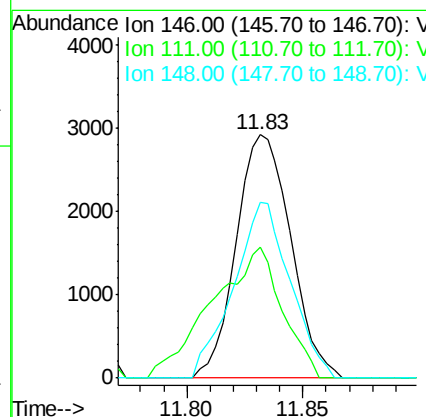
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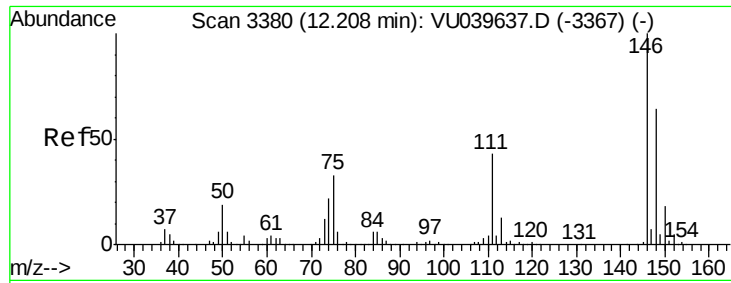
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#63
 1,4-Dichlorobenzene
 Concen: 1.947 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. -0.00 min
 Lab File: VU039648.D
 Acq: 23 Jul 2020 20:09

Tgt Ion	Ratio	Lower	Upper
146	100		
111	54.0	27.8	51.6#
148	72.3	44.7	83.1





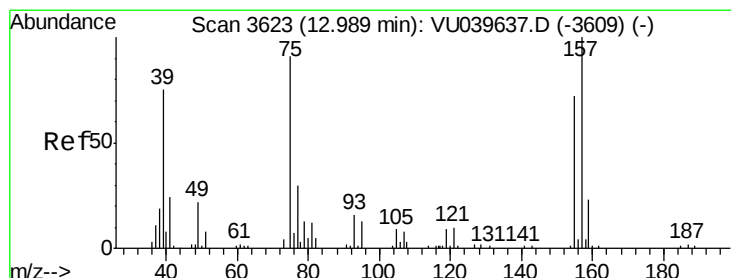
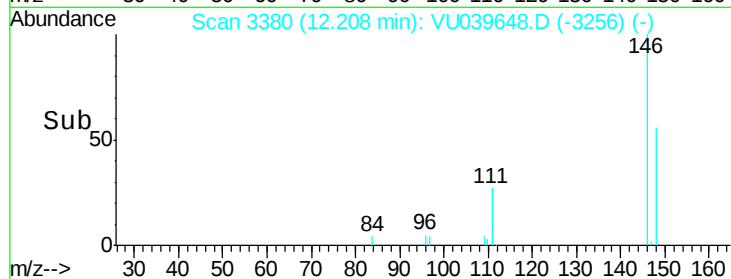
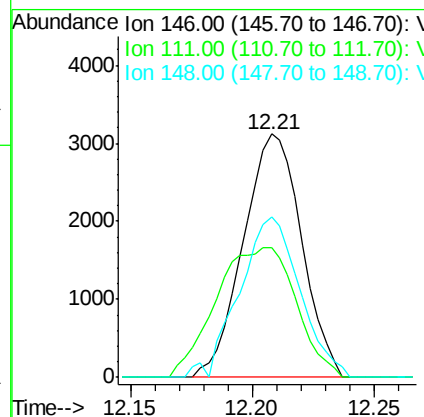
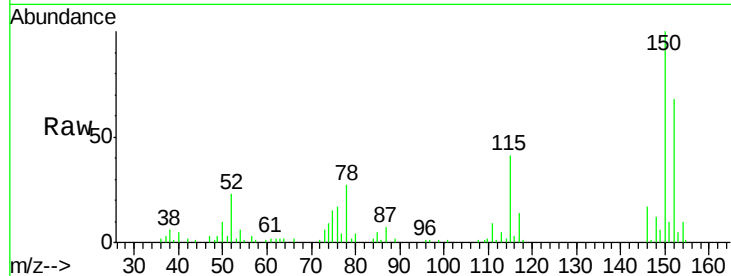
#65
 1,2-Dichlorobenzene
 Concen: 2.089 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. -0.00 min
 Lab File: VU039648.D
 Acq: 23 Jul 2020 20:09

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tot Ion	Ratio	Lower	Upper
146	100		
111	53.5	34.8	52.2#
148	66.0	52.5	78.7

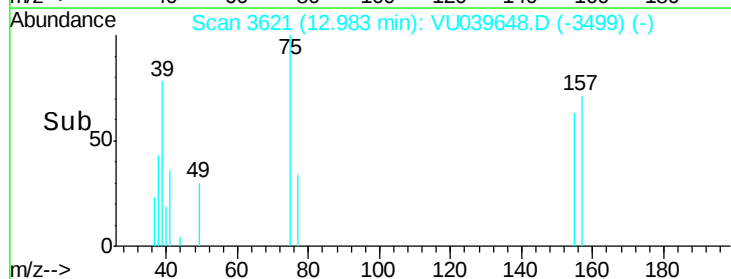
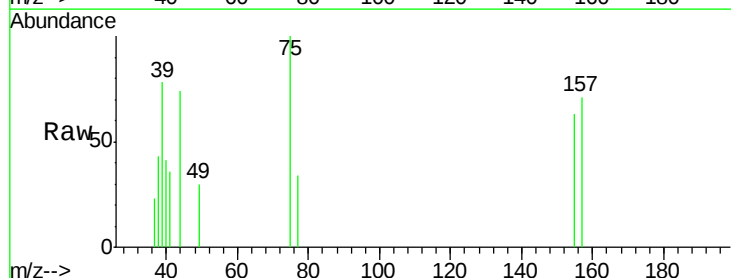
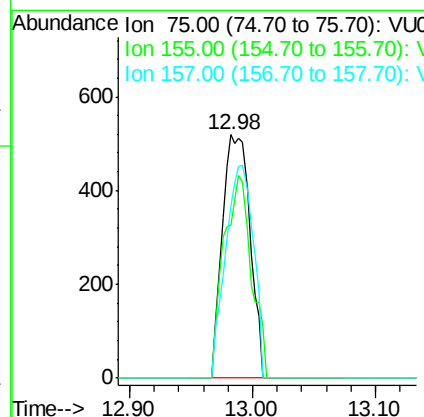
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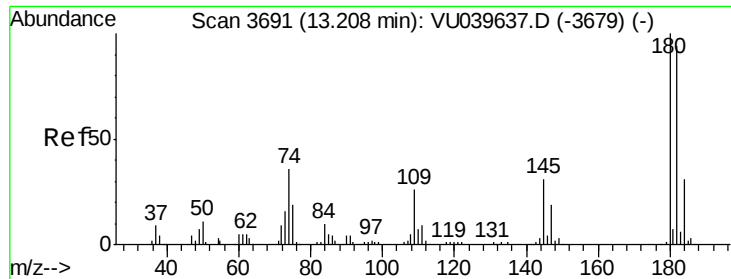
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#66
 1,2-Dibromo-3-chloropropane
 Concen: 1.621 ug/L m
 RT: 12.98 min Scan# 3621
 Delta R.T. -0.01 min
 Lab File: VU039648.D
 Acq: 23 Jul 2020 20:09

Tgt Ion	Ratio	Lower	Upper
75	100		
155	62.8	62.4	93.6
157	70.5	78.9	118.3#





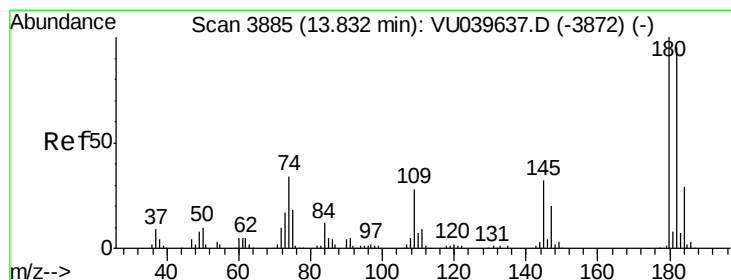
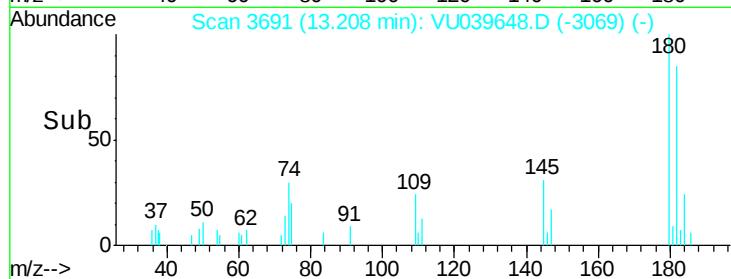
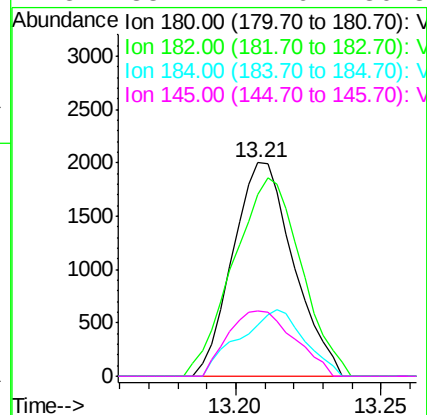
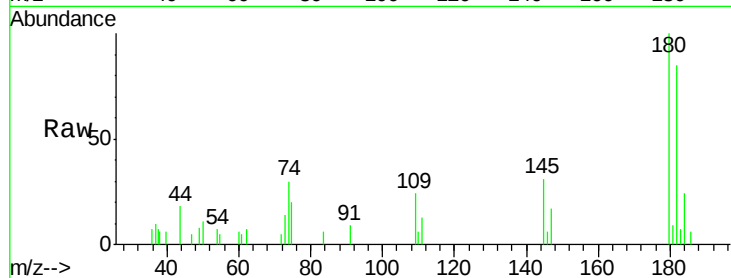
#67
 1,3,5-Trichlorobenzene
 Concen: 1.650 ug/L
 RT: 13.21 min Scan# 3691
 Delta R.T. -0.00 min
 Lab File: VU039648.D
 Acq: 23 Jul 2020 20:09

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tot Ion	Ratio	Lower	Upper
180	100		
182	103.9	75.7	113.5
184	33.2	24.2	36.2
145	33.7	24.6	36.8

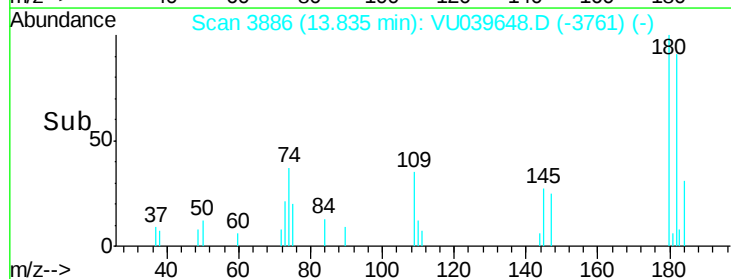
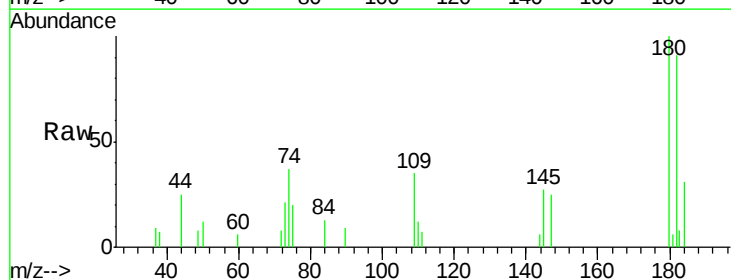
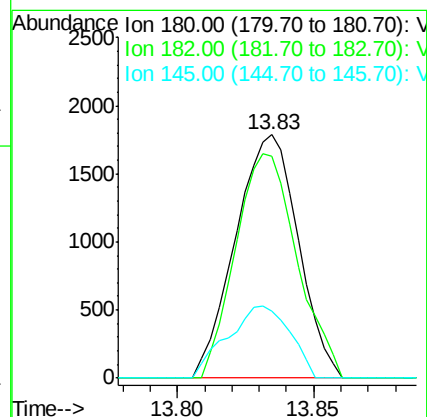
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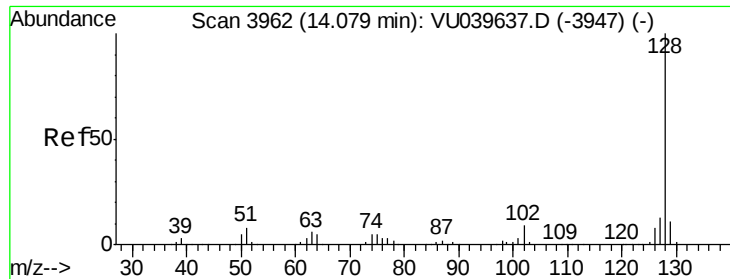
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#68
 1,2,4-trichlorobenzene
 Concen: 1.902 ug/L
 RT: 13.83 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VU039648.D
 Acq: 23 Jul 2020 20:09

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.3	74.4	111.6
145	29.6	24.8	37.2





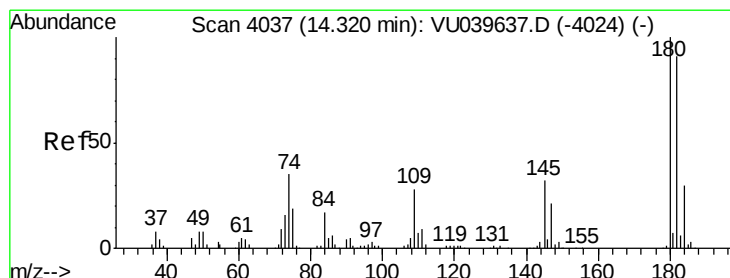
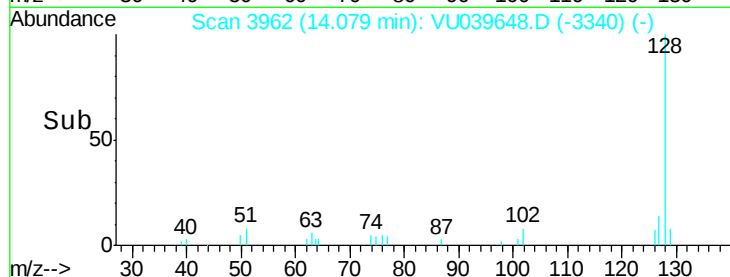
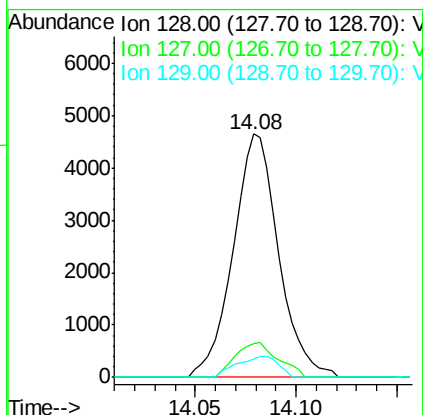
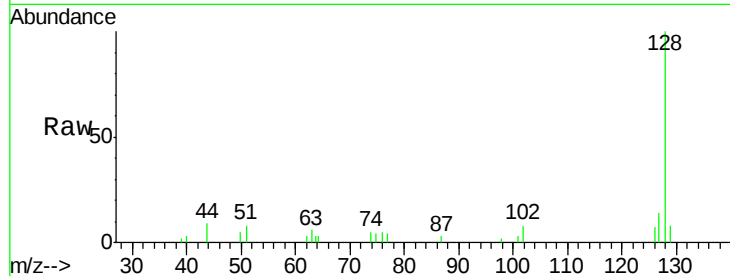
#69
Naphthalene
Concen: 1.632 ug/L
RT: 14.08 min Scan# 3962
Delta R.T. -0.00 min
Lab File: VU039648.D
Acq: 23 Jul 2020 20:09

Instrument :
MSVOA_U
ClientSampled :
MDL02

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.7	16.1
129	7.8	8.8	13.2#

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#70
1,2,3-Trichlorobenzene
Concen: 1.788 ug/L
RT: 14.32 min Scan# 4038
Delta R.T. 0.00 min
Lab File: VU039648.D
Acq: 23 Jul 2020 20:09

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.9	76.6	114.8
145	26.8	27.0	40.4#

