

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072320\
 Data File : VU039651.D
 Acq On : 23 Jul 2020 21:15
 Operator : SY/MD
 Sample : MDL05
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Manual Integrations
 APPROVED

sam
 7/30/2020 2:57:34 AM

Quant Time: Jul 29 15:54:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jul 24 03:36:18 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.27	114	192867	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	180843	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	81317	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	52015	41.43	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	82.86%
7) Chloroethane-d5	1.92	69	62555	41.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	83.14%
11) 1,1-Dichloroethene-d2	2.58	63	87729	33.01	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.02%
21) 2-Butanone-d5	4.65	46	130188	89.81	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	89.81%
24) Chloroform-d	5.08	84	123205	43.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.26%
26) 1,2-Dichloroethane-d4	5.72	65	89323	44.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.52%
32) Benzene-d6	5.75	84	239041	47.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.20%
36) 1,2-Dichloropropane-d6	6.70	67	77491	47.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.12%
41) Toluene-d8	7.91	98	216724	45.87	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.74%
43) trans-1,3-Dichloropropene-	8.19	79	35565	42.79	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.58%
47) 2-Hexanone-d5	8.64	63	80374	89.48	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	89.48%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	116721	44.76	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	89.52%
64) 1,2-Dichlorobenzene-d4	12.19	152	87137	49.00	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	2721	2.071 ug/L	94
3) Chloromethane	1.53	50	2517	1.844 ug/L	98
5) Vinyl chloride	1.61	62	3183	2.295 ug/L #	71
6) Bromomethane	1.87	94	2361	2.265 ug/L	82
8) Chloroethane	1.94	64	2803	2.272 ug/L	89
9) Trichlorofluoromethane	2.15	101	4454	1.817 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	2734	2.317 ug/L #	71
12) 1,1-Dichloroethene	2.59	96	2840	2.581 ug/L #	1
13) Acetone	2.65	43	3793m	3.932 ug/L	
14) Carbon disulfide	2.81	76	6551	1.861 ug/L #	94
15) Methyl Acetate	2.97	43	3481	2.014 ug/L #	80
16) Methylene chloride	3.06	84	2973	2.256 ug/L	85
17) trans-1,2-Dichloroethene	3.37	96	2322	1.897 ug/L	88
18) Methyl tert-butyl Ether	3.38	73	7358	1.860 ug/L	96
19) 1,1-Dichloroethane	3.89	63	4618m	1.933 ug/L	
20) cis-1,2-Dichloroethene	4.69	96	2898	2.071 ug/L	83
22) 2-Butanone	4.73	43	5166m	3.800 ug/L	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.99	128	1442m	2.051	uq/L	
25) Chloroform	5.11	83	10016	3.780	uq/L	94
27) 1,2-Dichloroethane	5.81	62	4620	2.102	uq/L #	76
29) Cyclohexane	5.40	56	3853	1.961	uq/L	100
30) 1,1,1-Trichloroethane	5.34	97	4345	2.007	uq/L	95
31) Carbon tetrachloride	5.54	117	3544	1.973	uq/L	94
33) Benzene	5.79	78	9979	2.002	uq/L	100
34) Trichloroethene	6.56	95	2962	2.247	uq/L	93
35) Methylcyclohexane	6.78	83	3503	1.719	uq/L #	83
37) 1,2-Dichloropropane	6.81	63	2570	1.905	uq/L #	89
38) Bromodichloromethane	7.12	83	3599	2.008	uq/L #	92
39) cis-1,3-Dichloropropene	7.62	75	4010	1.988	uq/L	95
40) 4-Methyl-2-pentanone	7.80	43	9386	3.993	uq/L	93
42) Toluene	7.98	91	10162	1.854	uq/L	98
44) trans-1,3-Dichloropropene	8.22	75	4026	2.039	uq/L	93
45) 1,1,2-Trichloroethane	8.41	97	2604	2.024	uq/L #	77
46) Tetrachloroethene	8.56	164	1780	1.785	uq/L #	67
48) 2-Hexanone	8.69	43	11341	5.921	uq/L	92
49) Dibromochloromethane	8.82	129	2850	1.962	uq/L	91
50) 1,2-Dibromoethane	8.93	107	2856	1.995	uq/L #	99
51) Chlorobenzene	9.45	112	7091	2.028	uq/L	94
52) Ethylbenzene	9.57	91	11219	1.852	uq/L	96
53) m,p-Xylene	9.69	106	3980	1.743	uq/L	97
54) o-xylene	10.10	106	3972	1.813	uq/L	86
55) Styrene	10.11	104	6163	1.625	uq/L	95
56) Isopropylbenzene	10.49	105	10435	1.754	uq/L	97
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	4953	2.112	uq/L #	95
59) 1,2,3-Trichloropropane	10.82	75	4030	2.058	uq/L	99
61) Bromoform	10.29	173	1740	1.809	uq/L #	90
62) 1,3-Dichlorobenzene	11.74	146	4758	1.910	uq/L	98
63) 1,4-Dichlorobenzene	11.83	146	5229	2.095	uq/L	90
65) 1,2-Dichlorobenzene	12.21	146	5358	2.129	uq/L	94
66) 1,2-Dibromo-3-chloropropan	12.99	75	858m	1.704	uq/L	
67) 1,3,5-Trichlorobenzene	13.21	180	3379m	1.881	uq/L	
68) 1,2,4-trichlorobenzene	13.83	180	2765	1.814	uq/L	91
69) Naphthalene	14.08	128	7529	1.646	uq/L #	96
70) 1,2,3-Trichlorobenzene	14.32	180	2773	1.801	uq/L	98

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

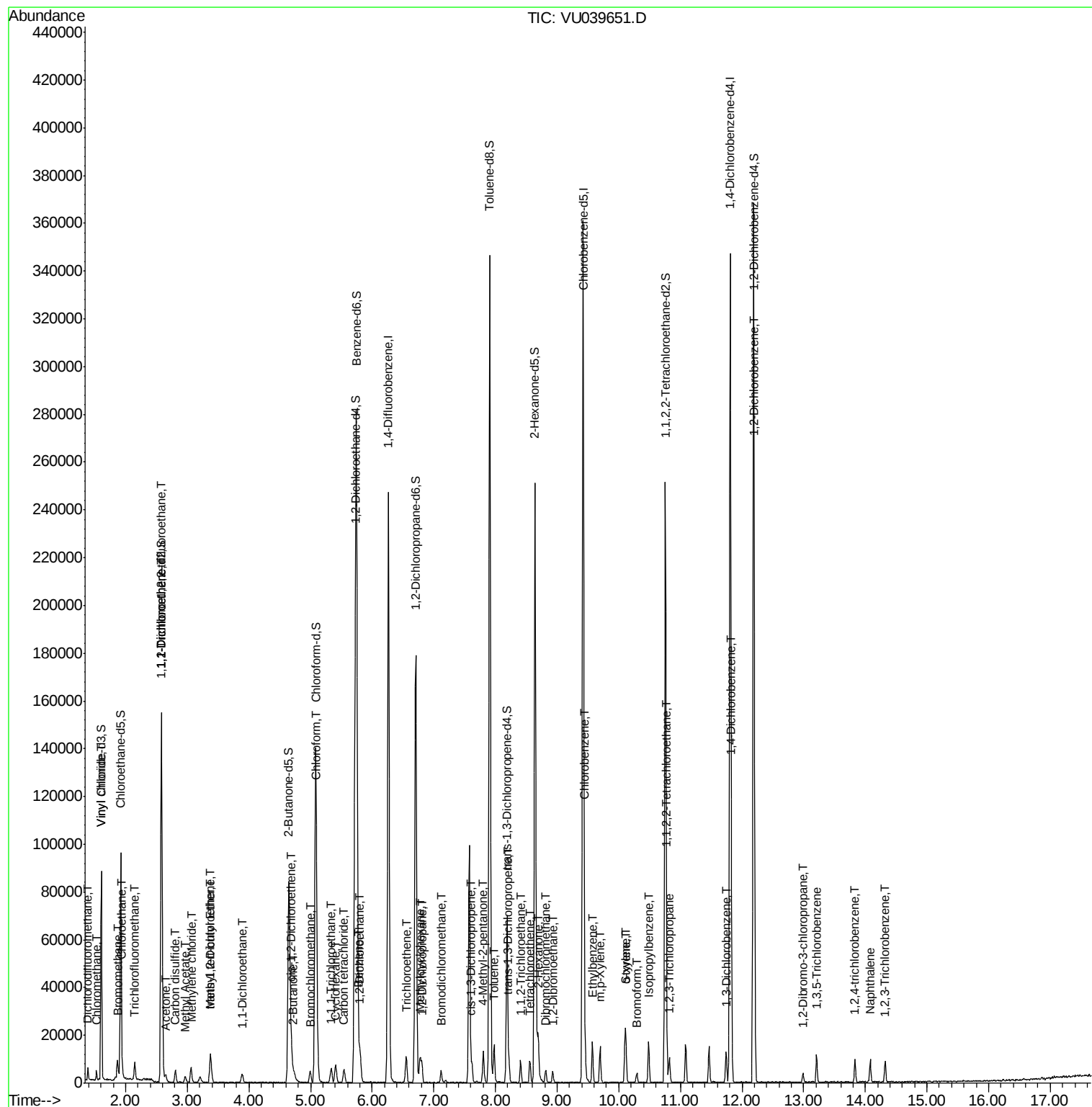
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU072320\
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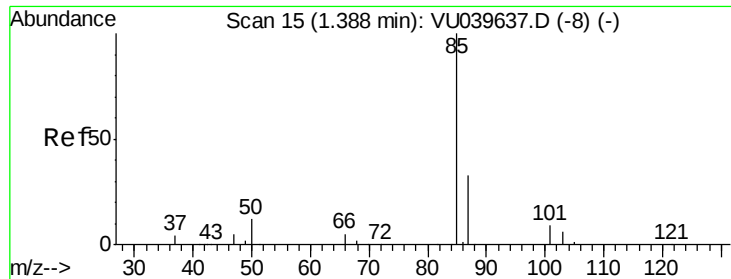
Instrument :
MSVOA_U
ClientSampleId :
MDL05

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.071 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 21:15

Instrument :

MSVOA_U

ClientSampleId :

MDL05

Tot Ion: 85 Resp: 2721

Ion Ratio Lower Upper

85 100

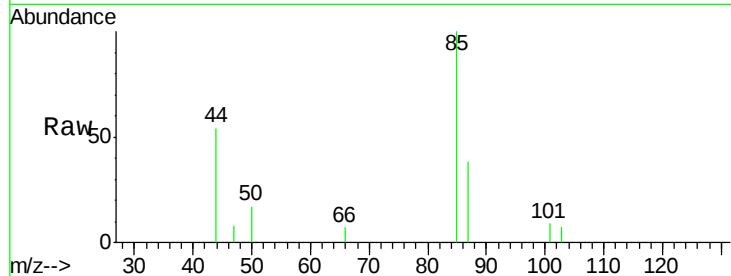
87 36.4 26.2 39.4

Manual Integrations

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

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

1.39

2500

2000

1500

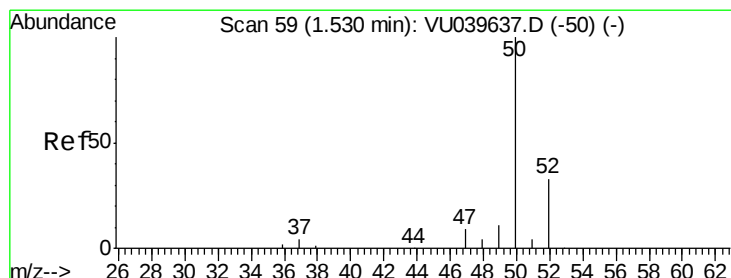
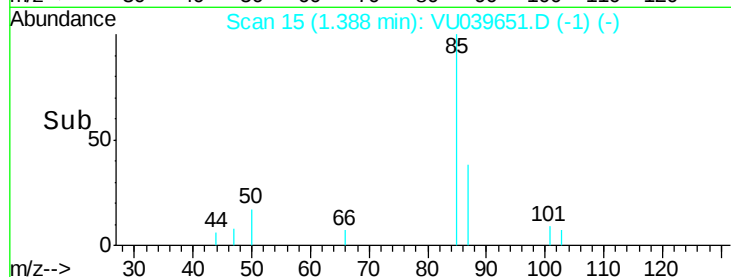
1000

500

0

1.36 1.38 1.40 1.42

Time-->



#3

Chloromethane

Concen: 1.844 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU039651.D

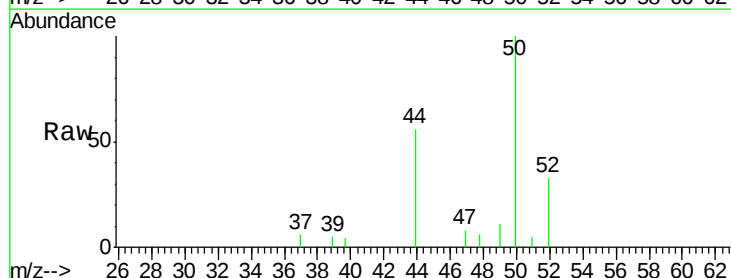
Acq: 23 Jul 2020 21:15

Tgt Ion: 50 Resp: 2517

Ion Ratio Lower Upper

50 100

52 33.4 24.0 44.6



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

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

1.53

2500

2000

1500

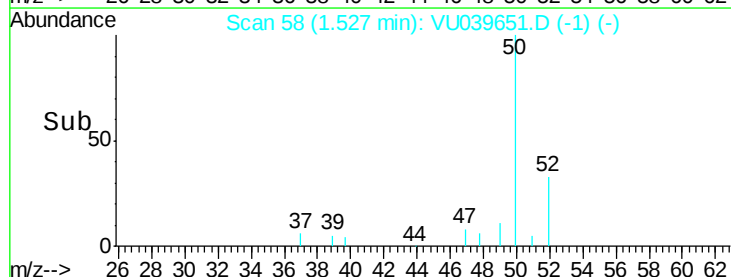
1000

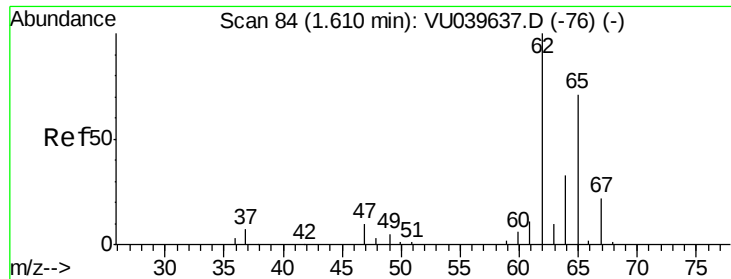
500

0

1.50 1.52 1.54 1.56

Time-->





#5

Vinyl chloride

Concen: 2.295 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 21:15

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion: 62 Resp: 3183

Ion Ratio Lower Upper

62 100

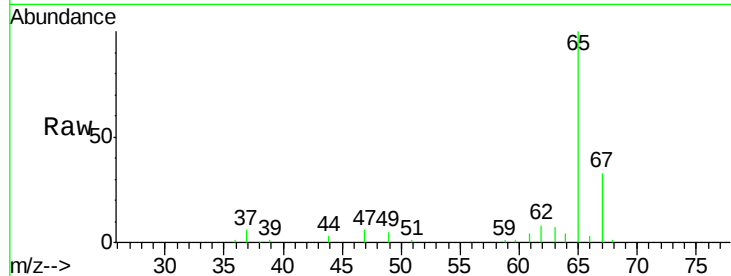
64 49.1 22.8 42.4#

Manual Integrations

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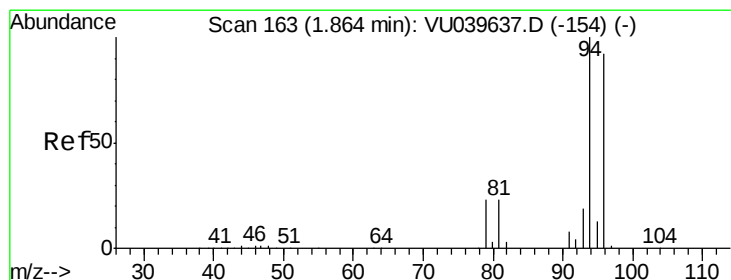
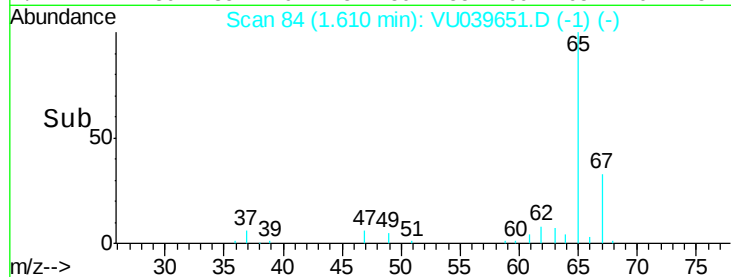
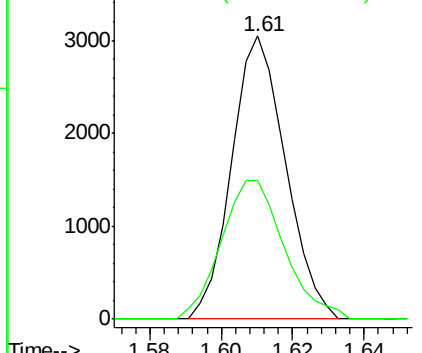
sam

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Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 2.265 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU039651.D

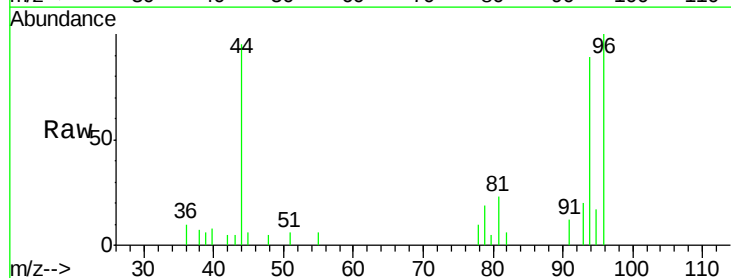
Acq: 23 Jul 2020 21:15

Tgt Ion: 94 Resp: 2361

Ion Ratio Lower Upper

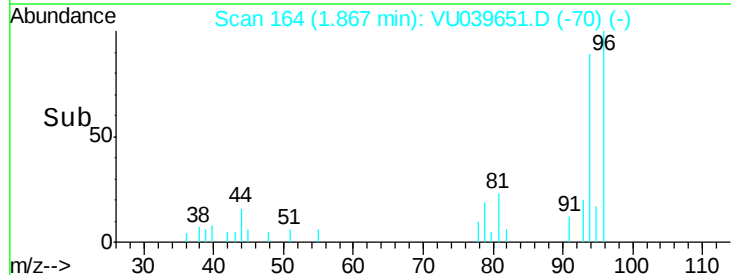
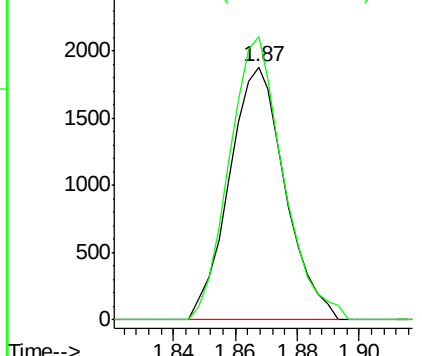
94 100

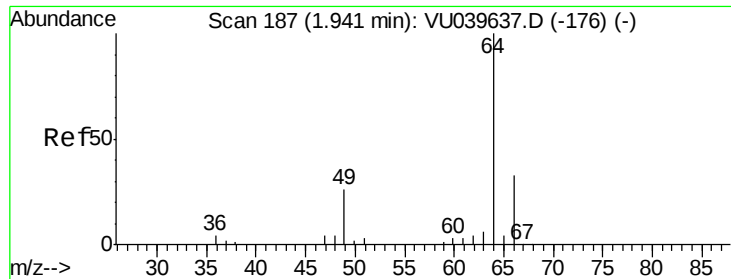
96 111.7 65.7 122.1



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 2.272 ug/L

RT: 1.94 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 21:15

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion: 64 Resp: 2803

Ion Ratio Lower Upper

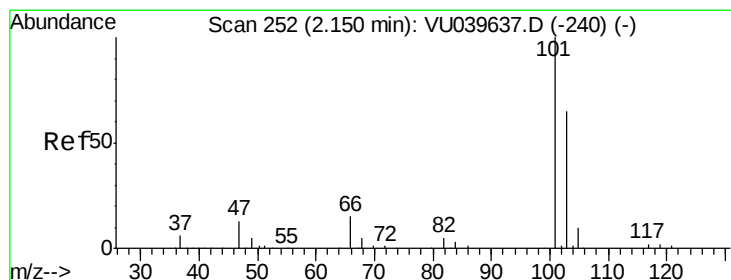
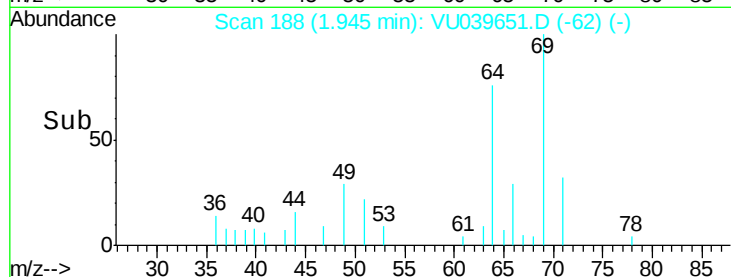
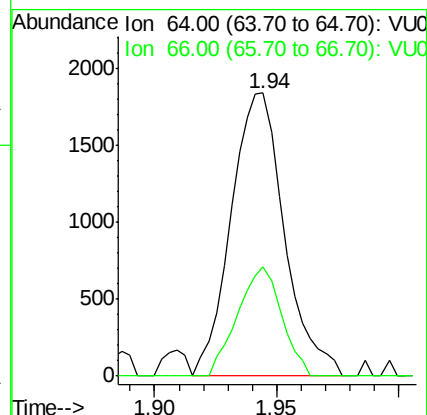
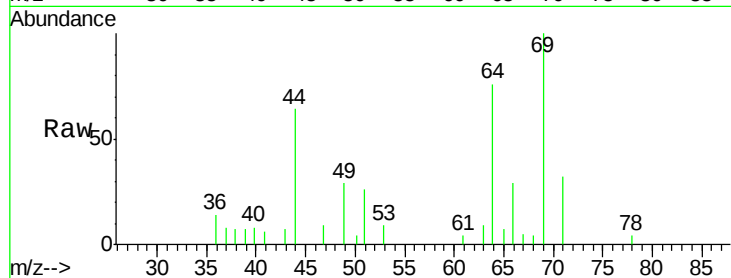
64 100

66 38.7 22.7 42.1

Manual Integrations
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#9

Trichlorofluoromethane

Concen: 1.817 ug/L

RT: 2.15 min Scan# 251

Delta R.T. -0.00 min

Lab File: VU039651.D

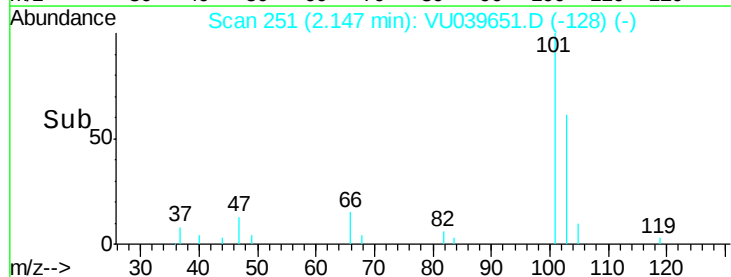
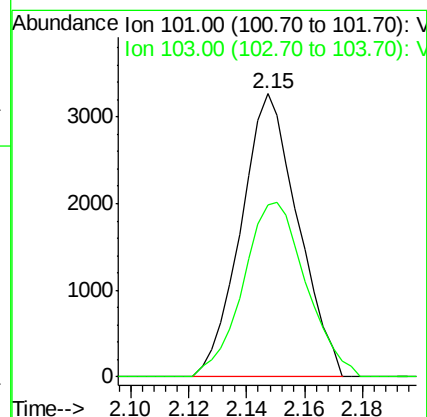
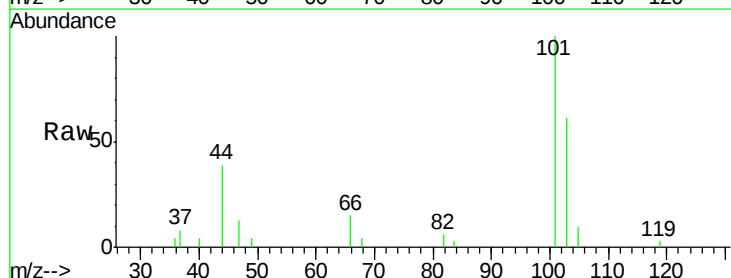
Acq: 23 Jul 2020 21:15

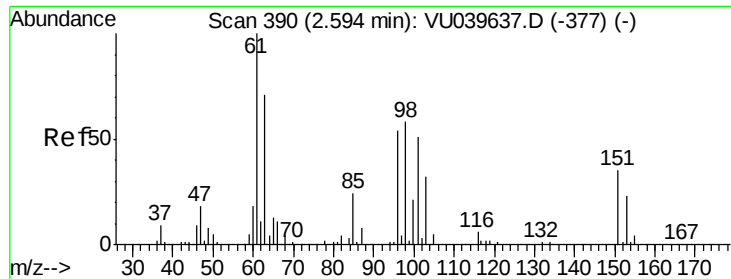
Tgt Ion: 101 Resp: 4454

Ion Ratio Lower Upper

101 100

103 68.1 52.8 79.2





#10

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

Concen: 2.317 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 21:15

Instrument :

MSVOA_U

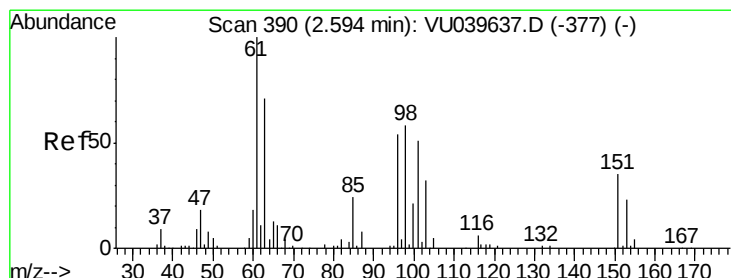
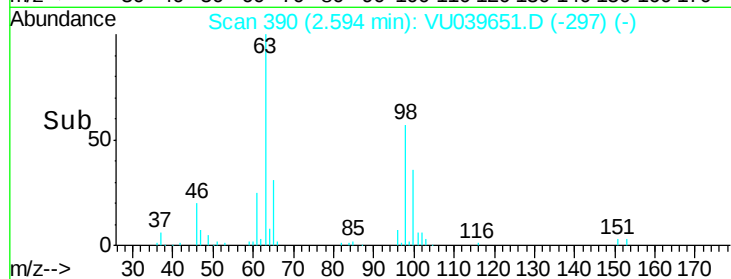
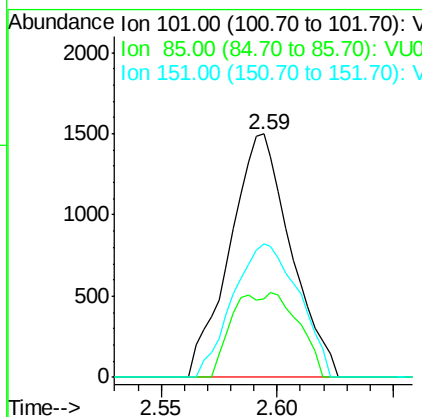
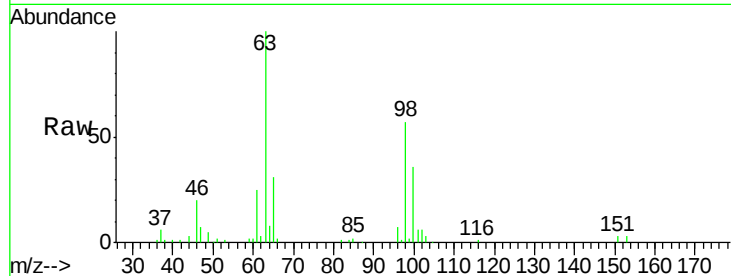
ClientSampleId :

MDL05

Tot Ion:	101	Resp:	2734
Ion Ratio	Lower	Upper	
101	100		
85	16.1	39.7	59.5#
151	59.3	57.4	86.2

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#12

1,1-Dichloroethene

Concen: 2.581 ug/L

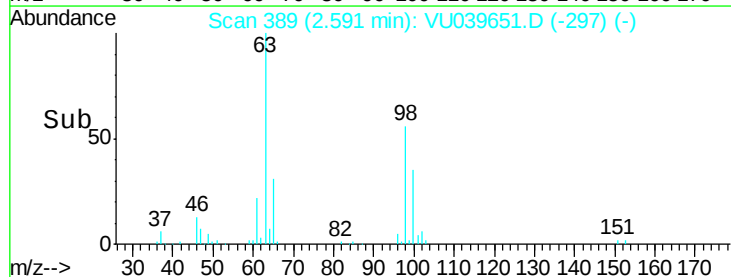
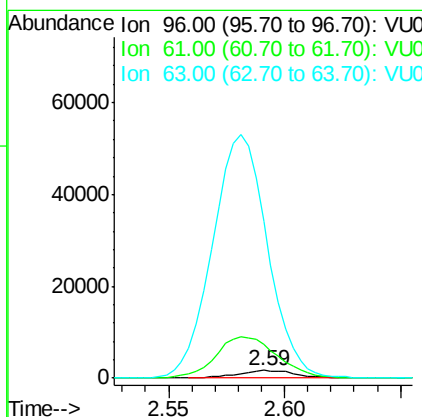
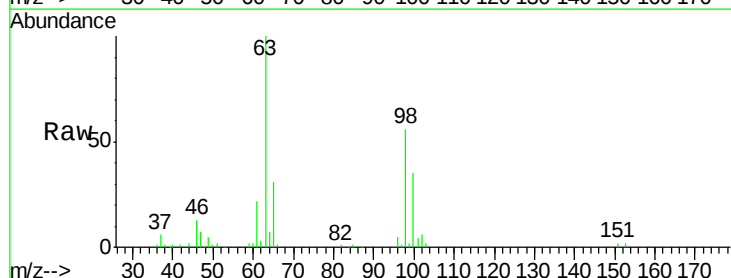
RT: 2.59 min Scan# 389

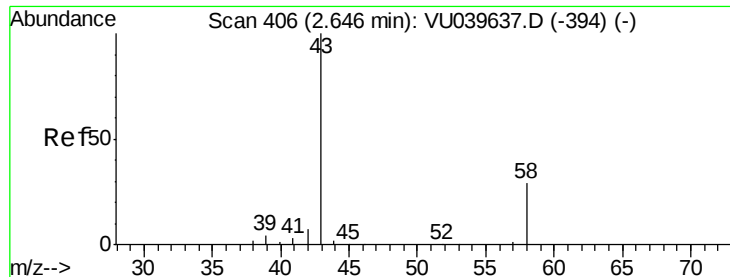
Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 21:15

Tgt Ion:	96	Resp:	2840
Ion Ratio	Lower	Upper	
96	100		
61	450.3	136.6	253.6#
63	2091.8	97.2	180.6#





#13

Acetone

Concen: 3.932 ug/L m

RT: 2.65 min Scan# 407

Delta R.T. 0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 21:15

Tot Ion: 43 Resp: 3793

Ion Ratio Lower Upper

43 100

58 28.6 0.0 59.4

Instrument :

MSVOA_U

ClientSampleId :

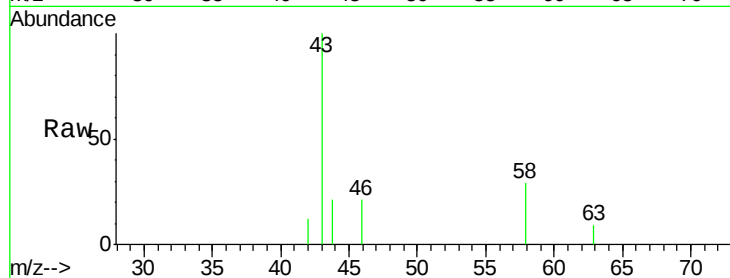
MDL05

Manual Integrations

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7/30/2020 2:57:34 AM



Abundance Ion 43.00 (42.70 to 43.70): VU039651.D (-313) (-)

Ion 58.00 (57.70 to 58.70): VU039651.D (-313) (-)

2.65

1500

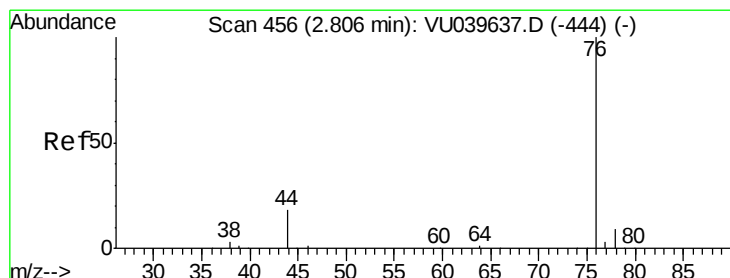
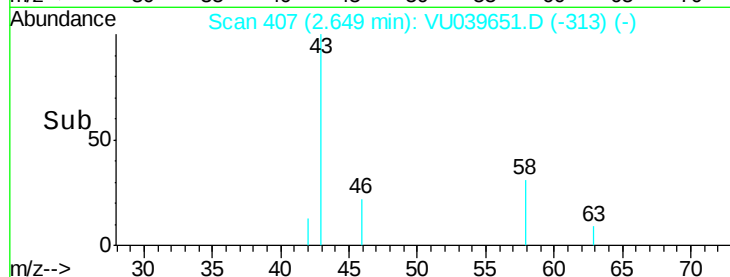
1000

500

0

Time-->

2.60 2.65 2.70 2.75



#14

Carbon disulfide

Concen: 1.861 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU039651.D

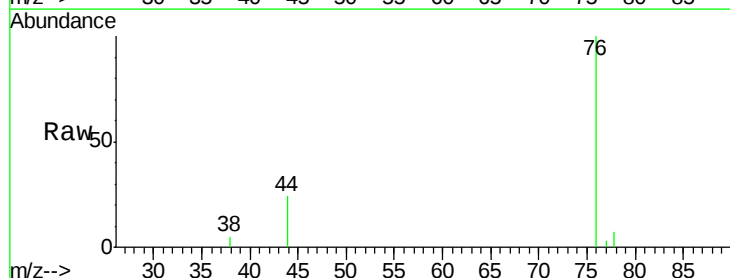
Acq: 23 Jul 2020 21:15

Tgt Ion: 76 Resp: 6551

Ion Ratio Lower Upper

76 100

78 7.0 7.3 10.9#



Abundance Ion 76.00 (75.70 to 76.70): VU039651.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VU039651.D (-363) (-)

2.81

4000

3000

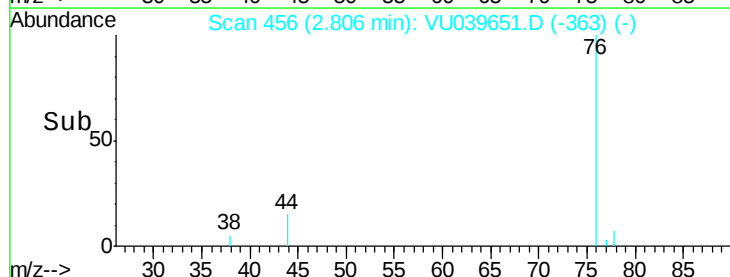
2000

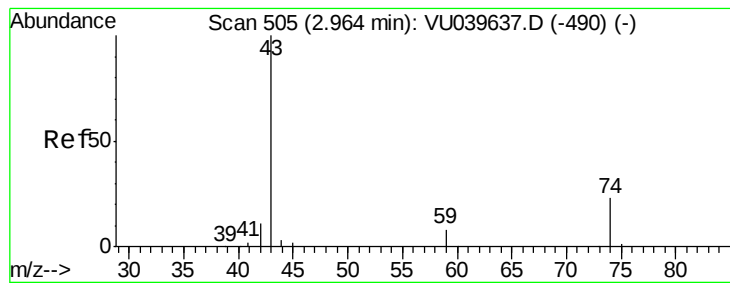
1000

0

Time-->

2.75 2.80 2.85





#15

Methyl Acetate

Concen: 2.014 ug/L

RT: 2.97 min Scan# 506

Delta R.T. 0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 21:15

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion: 43 Resp: 3481

Ion Ratio Lower Upper

43 100

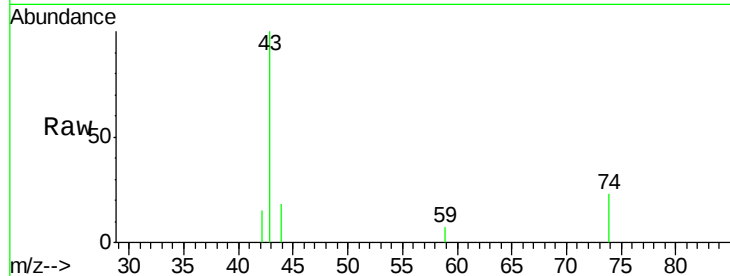
74 12.4 17.4 26.0#

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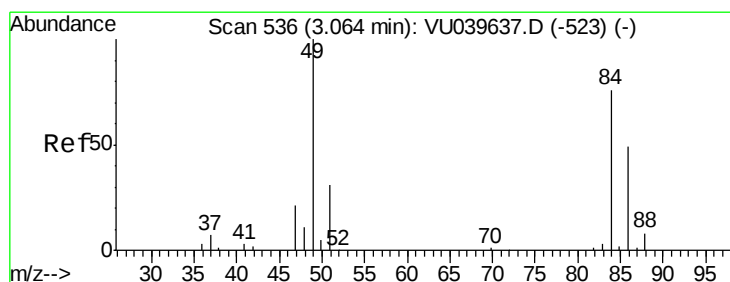
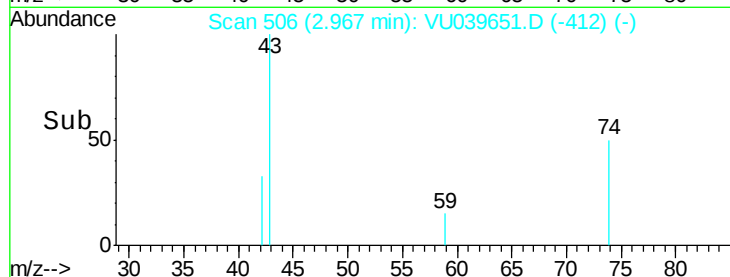
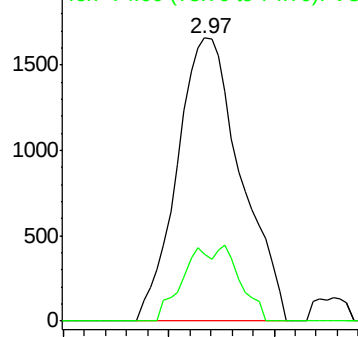
sam

7/30/2020 2:57:34 AM



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: 2.256 ug/L

RT: 3.06 min Scan# 535

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 21:15

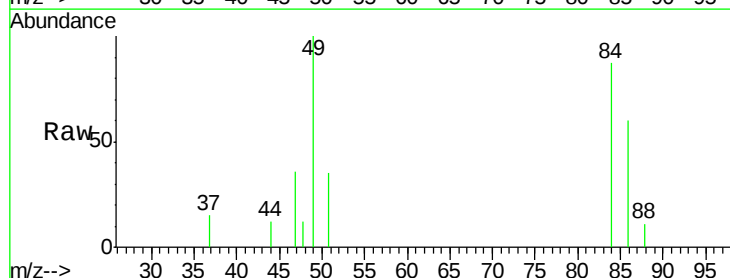
Tgt Ion: 84 Resp: 2973

Ion Ratio Lower Upper

84 100

86 68.9 46.2 85.8

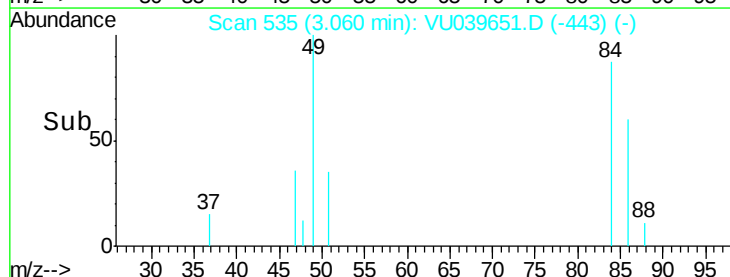
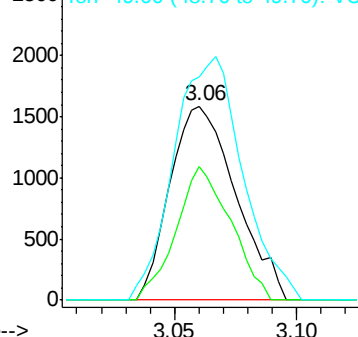
49 115.1 97.3 180.7

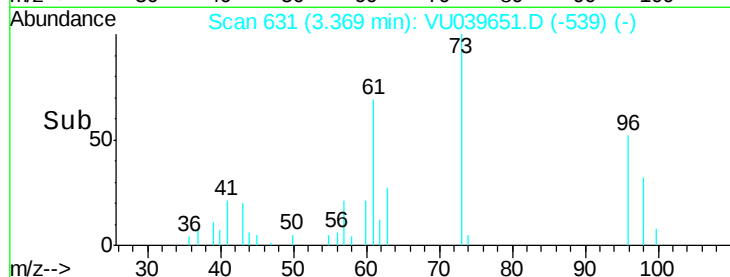
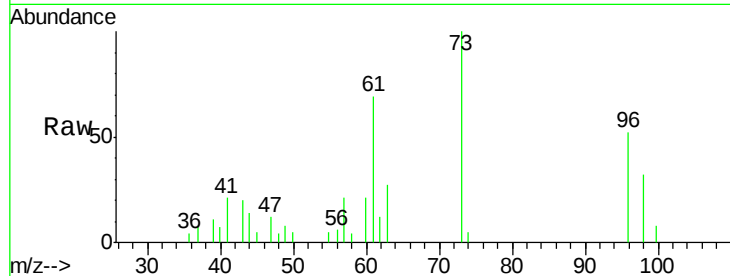
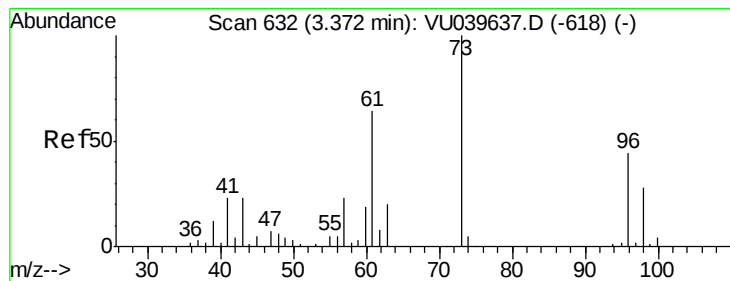


Abundance Ion 84.00 (83.70 to 84.70): VU039637.D (-523) (-)

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: 1.897 ug/L

RT: 3.37 min Scan# 631

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 21:15

Tot Ion:	96	Resp:	2322
Ion	Ratio	Lower	Upper
96	100		
61	130.9	106.7	198.1
98	61.8	44.3	82.3

Instrument :

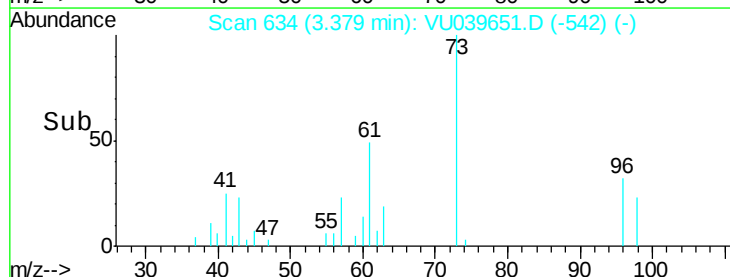
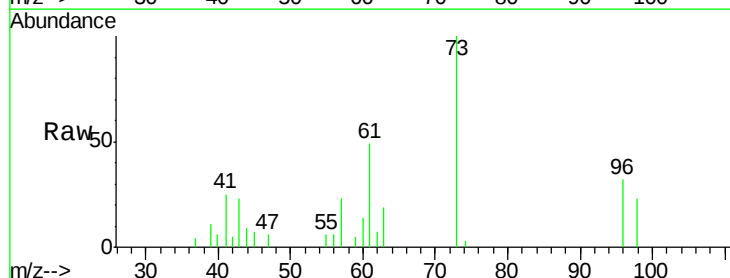
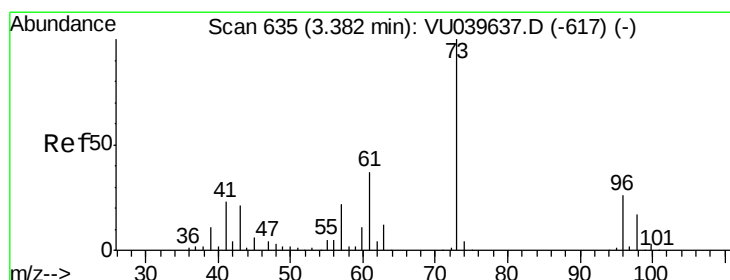
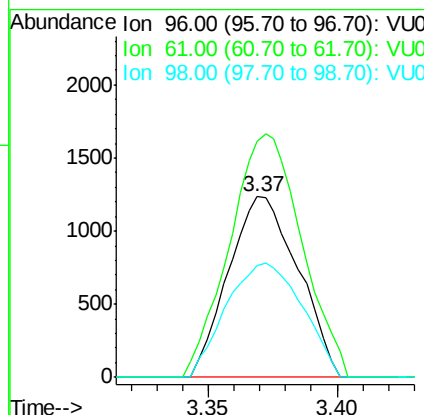
MSVOA_U

ClientSampled :

MDL05

Manual Integrations
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sam
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#18

Methyl tert-butyl Ether

Concen: 1.860 ug/L

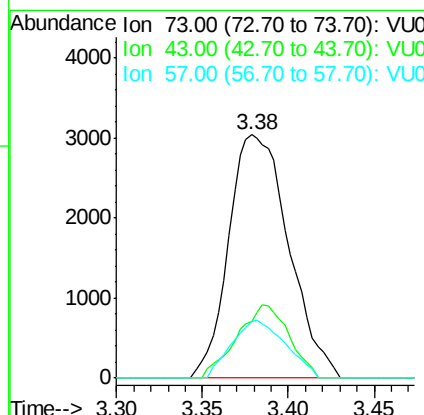
RT: 3.38 min Scan# 634

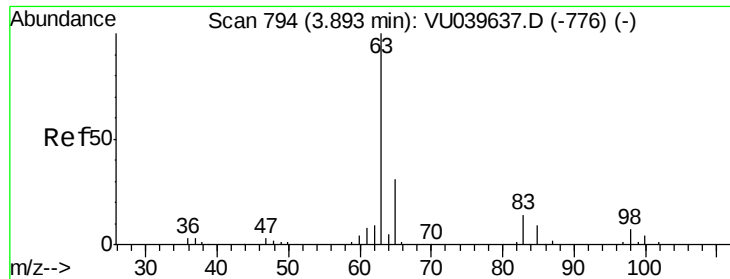
Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 21:15

Tgt Ion:	73	Resp:	7358
Ion	Ratio	Lower	Upper
73	100		
43	26.1	18.2	27.2
57	21.4	17.4	26.2





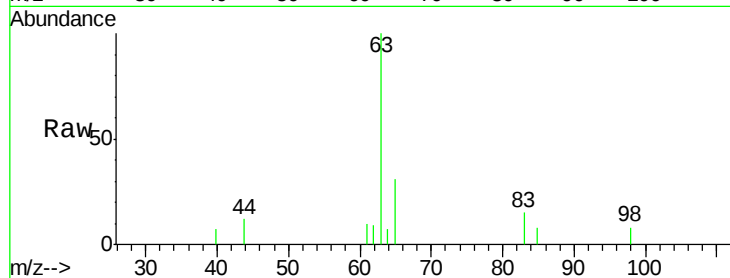
#19
 1,1-Dichloroethane
 Concen: 1.933 ug/L m
 RT: 3.89 min Scan# 792
 Delta R.T. -0.01 min
 Lab File: VU039651.D
 Acq: 23 Jul 2020 21:15

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

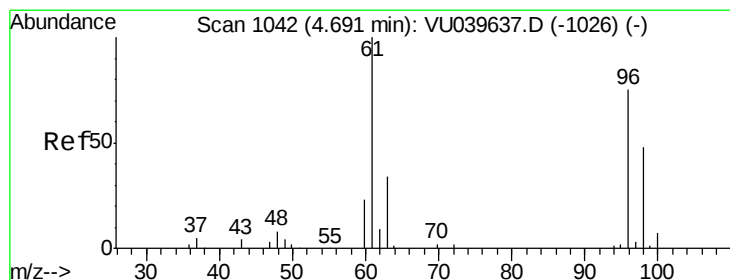
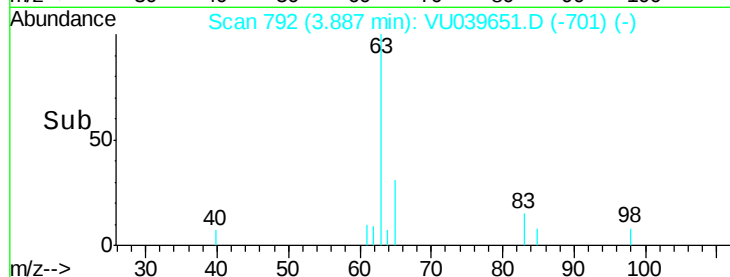
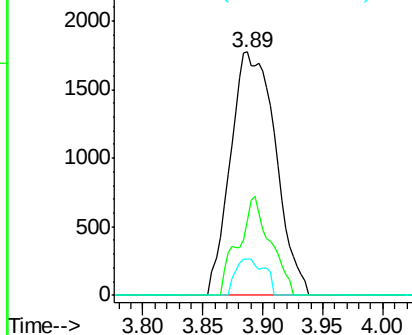
Tot Ion	Ratio	Lower	Upper
63	100		
65	30.7	20.4	38.0
83	14.9	9.7	18.1

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sam
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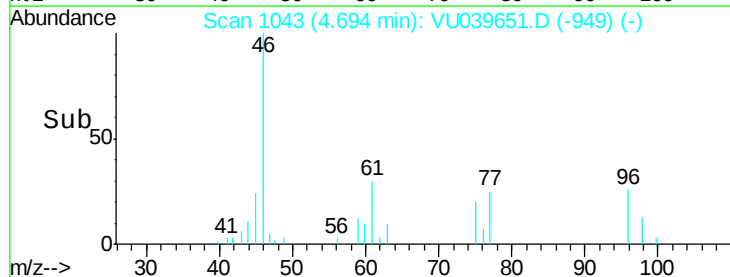
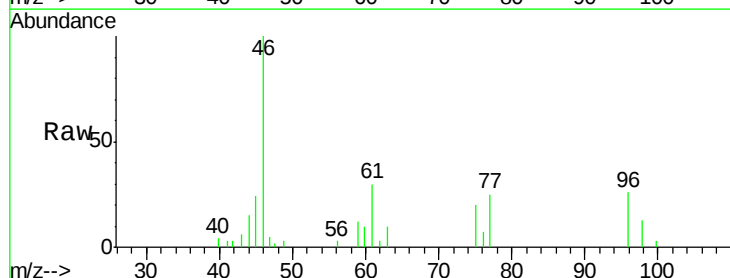
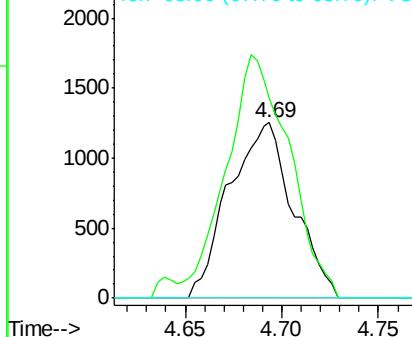
Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

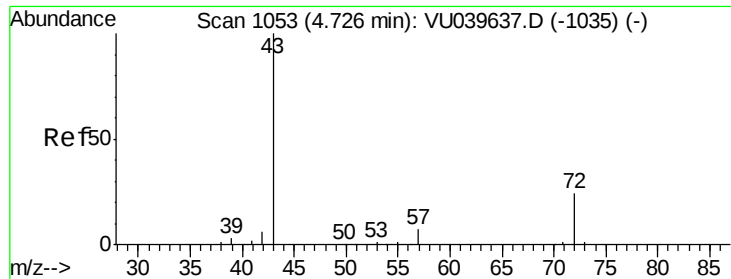


#20
 cis-1,2-Dichloroethene
 Concen: 2.071 ug/L
 RT: 4.69 min Scan# 1043
 Delta R.T. 0.00 min
 Lab File: VU039651.D
 Acq: 23 Jul 2020 21:15

Tgt Ion	Ratio	Lower	Upper
96	100		
61	113.9	94.0	174.6
68	0.0	0.0	0.0

Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





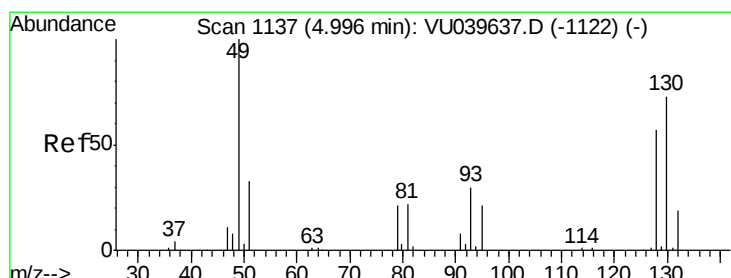
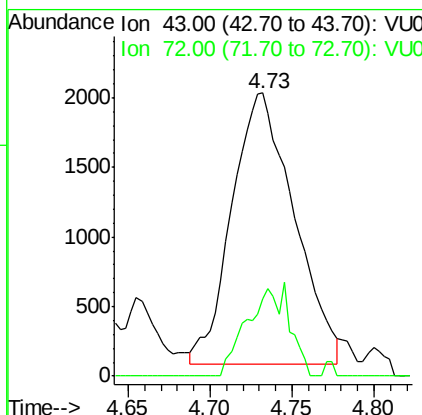
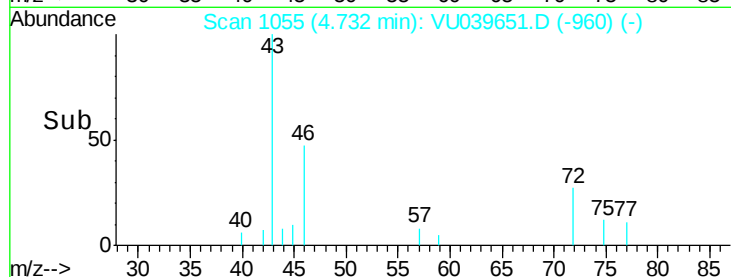
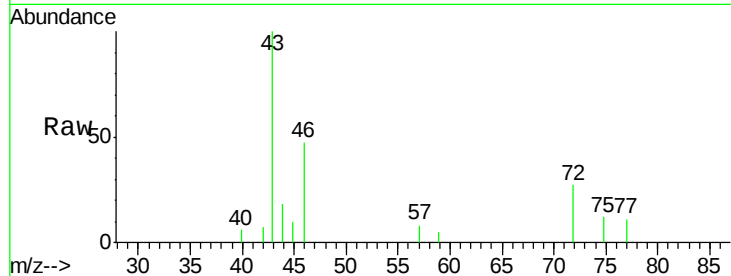
#22
2-Butanone
Concen: 3.800 ug/L m
RT: 4.73 min Scan# 1055
Delta R.T. 0.01 min
Lab File: VU039651.D
Acq: 23 Jul 2020 21:15

Instrument :
MSVOA_U
ClientSampled :
MDL05

Tot Ion: 43 Resp: 5166
Ion Ratio Lower Upper
43 100
72 0.8 12.8 38.3#

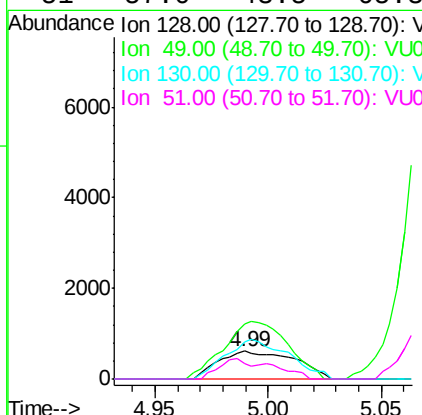
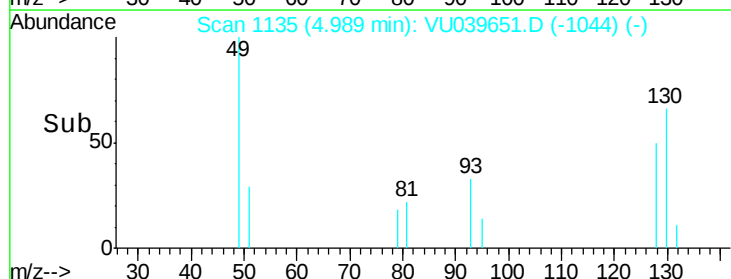
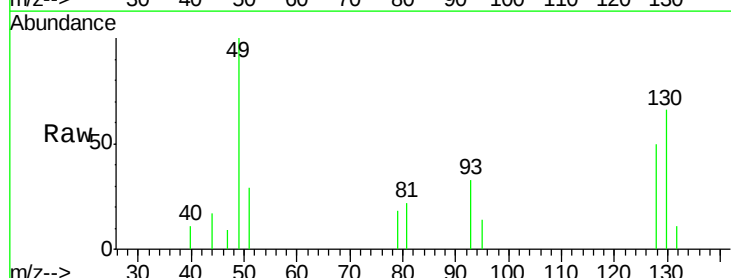
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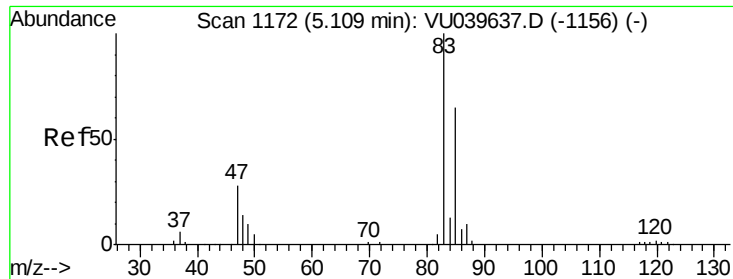
sam
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#23
Bromochloromethane
Concen: 2.051 ug/L m
RT: 4.99 min Scan# 1135
Delta R.T. -0.01 min
Lab File: VU039651.D
Acq: 23 Jul 2020 21:15

Tgt Ion: 128 Resp: 1442
Ion Ratio Lower Upper
128 100
49 199.3 124.5 231.3
130 131.8 94.4 175.2
51 57.0 43.5 65.3





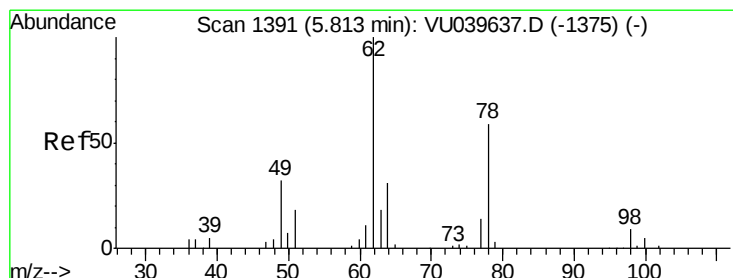
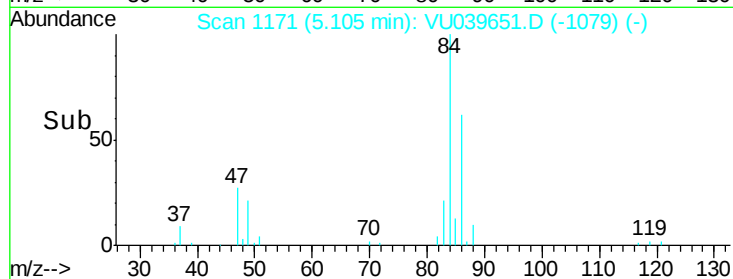
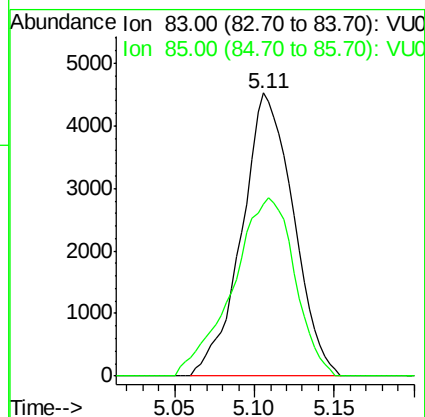
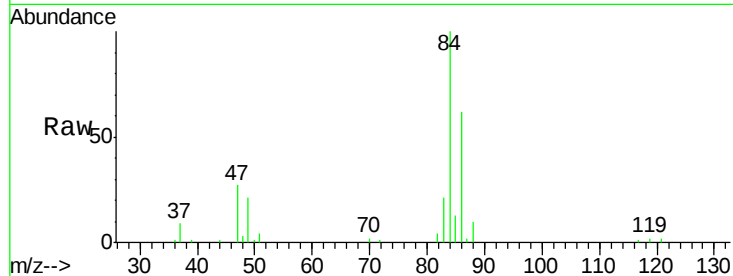
#25
Chloroform
Concen: 3.780 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. -0.00 min
Lab File: VU039651.D
Acq: 23 Jul 2020 21:15

Instrument :
MSVOA_U
ClientSampled :
MDL05

Tot Ion	83	Resp	10016
Ion Ratio	100	Lower	Upper
85	60.7	45.6	84.6

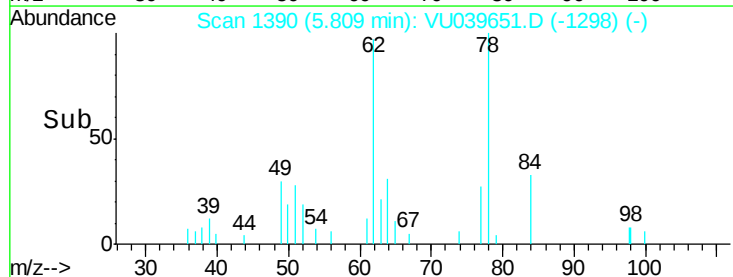
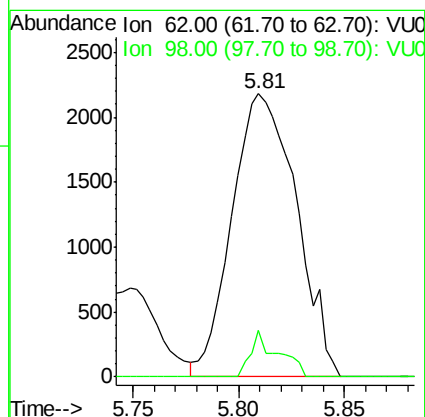
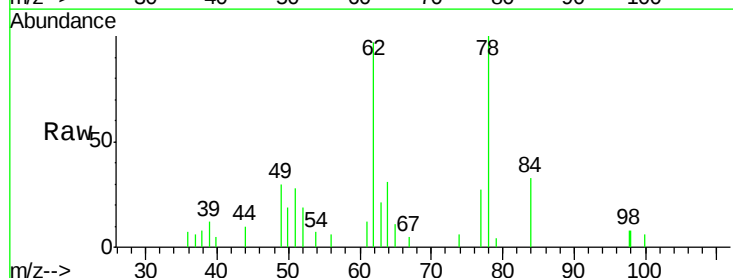
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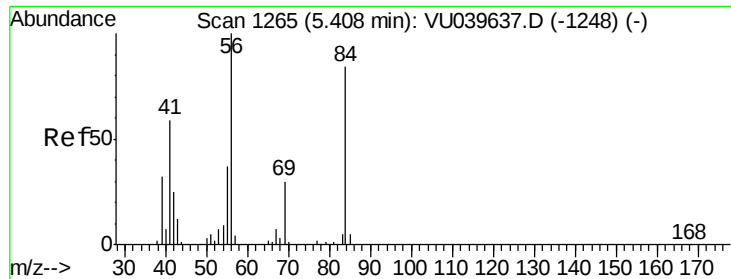
sam
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#27
1,2-Dichloroethane
Concen: 2.102 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. -0.00 min
Lab File: VU039651.D
Acq: 23 Jul 2020 21:15

Tgt Ion	62	Resp	4620
Ion Ratio	100	Lower	Upper
98	16.5	6.4	9.6#





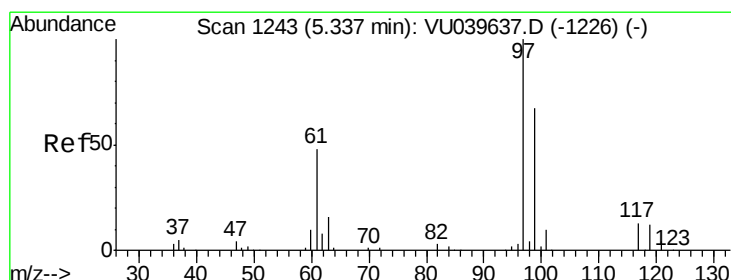
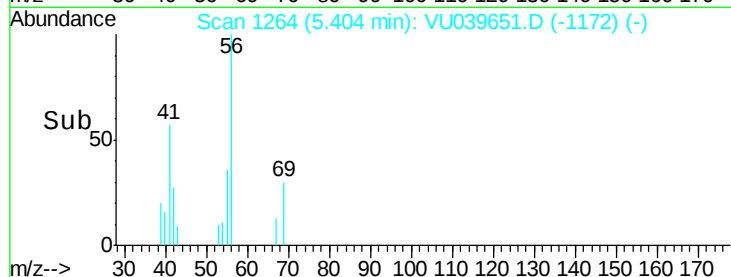
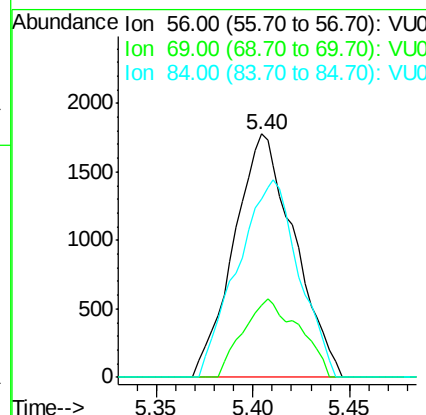
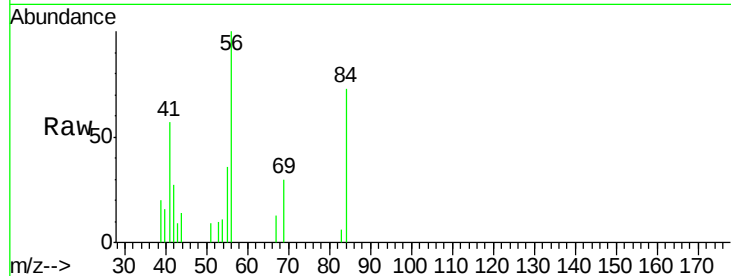
#29
Cyclohexane
Concen: 1.961 ug/L
RT: 5.40 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VU039651.D
Acq: 23 Jul 2020 21:15

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.9	23.9	35.9
84	82.4	65.8	98.8

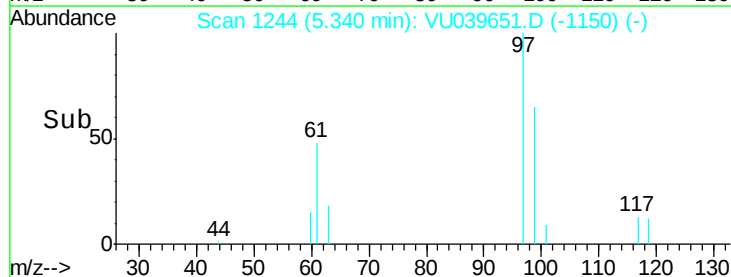
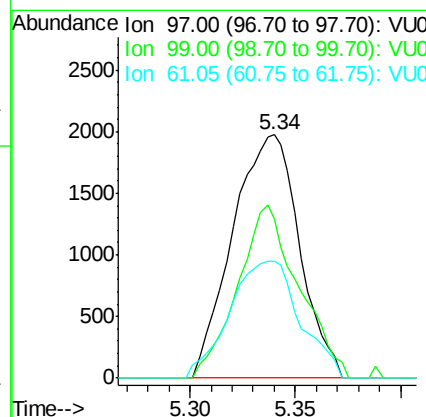
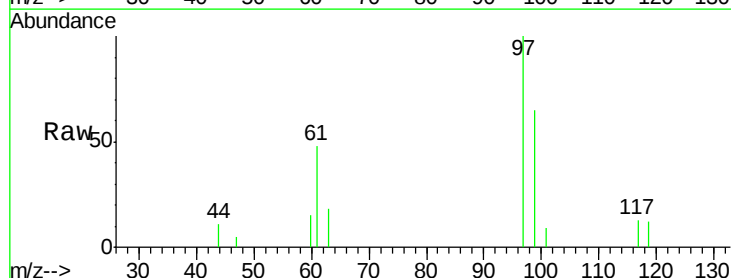
Manual Integrations
APPROVED

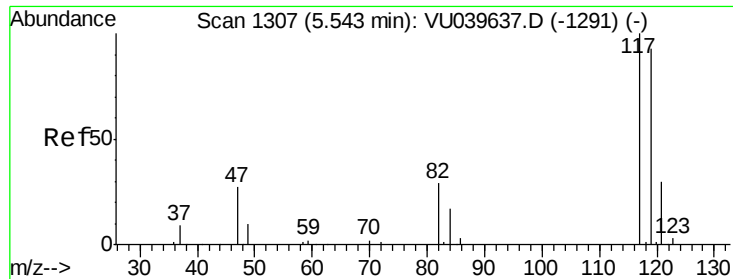
sam
7/30/2020 2:57:34 AM



#30
1,1,1-Trichloroethane
Concen: 2.007 ug/L
RT: 5.34 min Scan# 1244
Delta R.T. 0.00 min
Lab File: VU039651.D
Acq: 23 Jul 2020 21:15

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	50.3	75.5
61	50.8	36.0	54.0





#31

Carbon tetrachloride

Concen: 1.973 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 21:15

Instrument :

MSVOA_U

ClientSampleId :

MDL05

Tot Ion:117 Resp: 3544

Ion Ratio Lower Upper

117 100

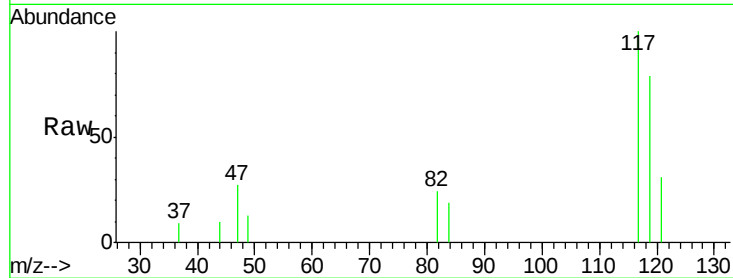
119 92.1 78.2 117.4

Manual Integrations

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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.54

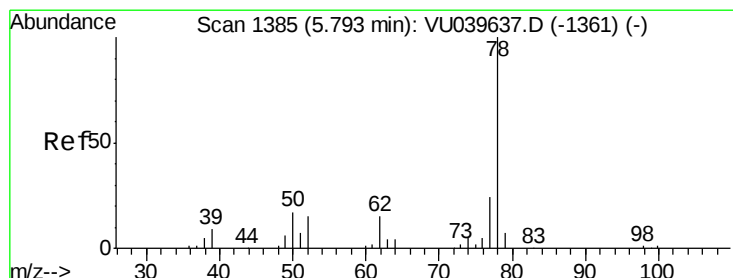
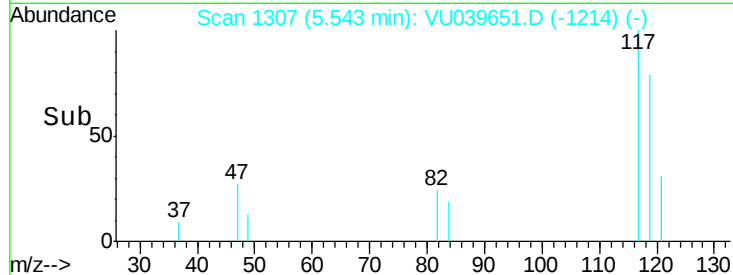
1500

1000

500

0

Time-->



#33

Benzene

Concen: 2.002 ug/L

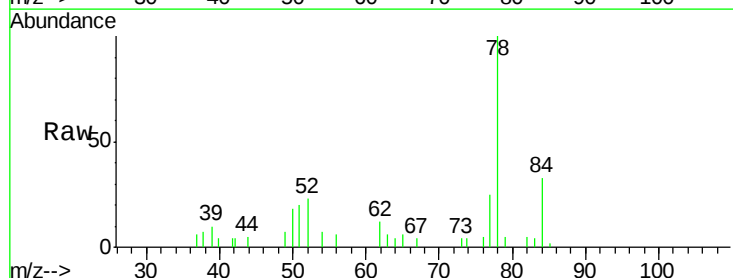
RT: 5.79 min Scan# 1384

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 21:15

Tgt Ion: 78 Resp: 9979



Abundance Ion 78.00 (77.70 to 78.70): VU0

5.79

5000

4000

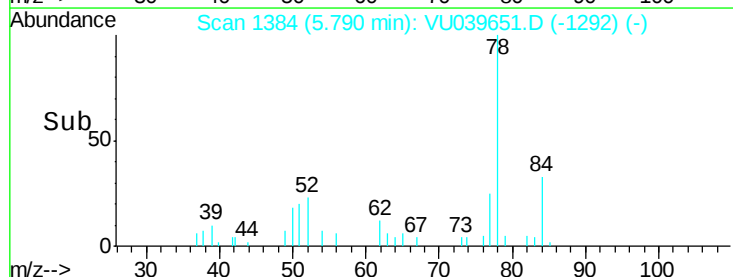
3000

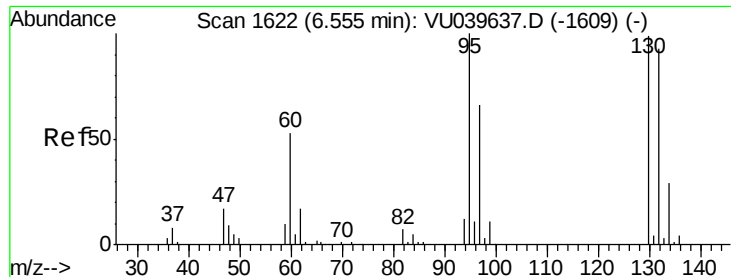
2000

1000

0

Time-->





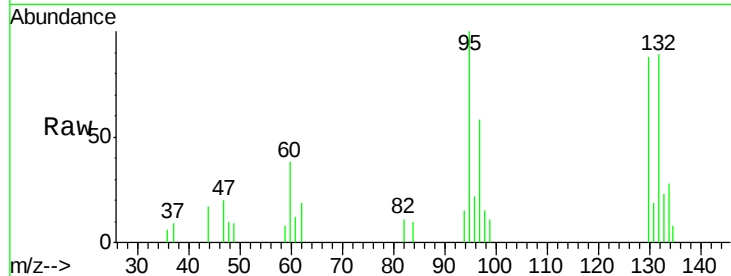
#34
 Trichloroethene
 Concen: 2.247 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. -0.00 min
 Lab File: VU039651.D
 Acq: 23 Jul 2020 21:15

Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

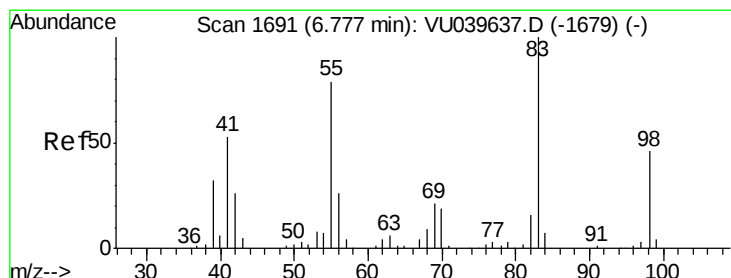
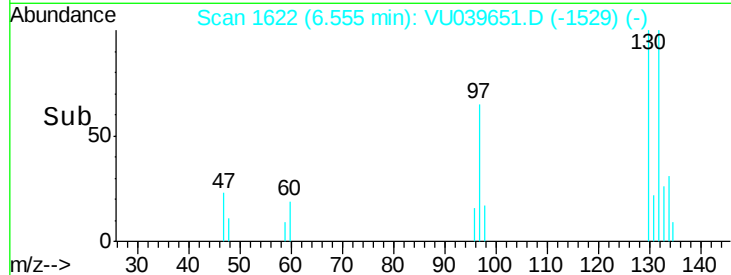
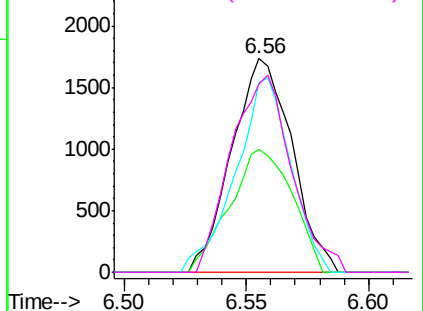
Tot Ion: 95 Resp: 2962
 Ion Ratio Lower Upper
 95 100
 97 57.6 45.5 84.5
 132 88.5 65.0 120.6
 130 88.3 67.9 126.1

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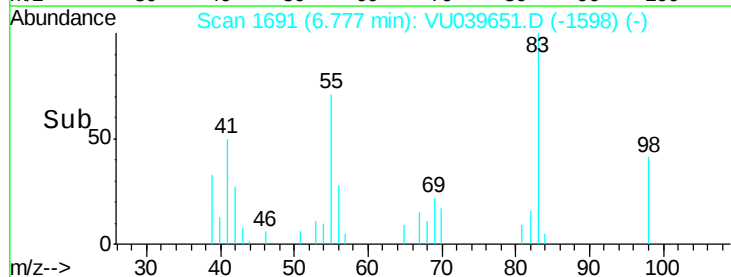
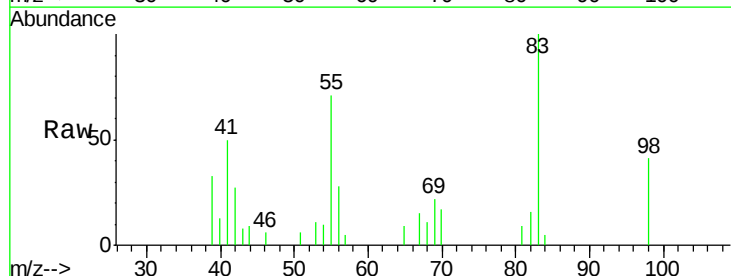
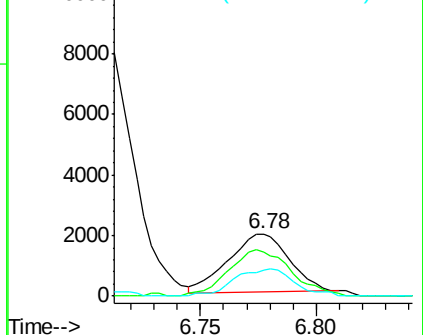
Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

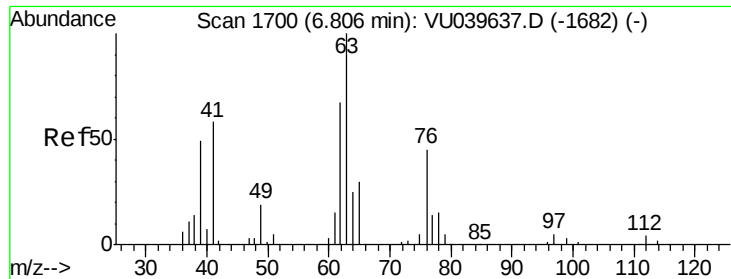


#35
 Methylcyclohexane
 Concen: 1.719 ug/L
 RT: 6.78 min Scan# 1691
 Delta R.T. -0.00 min
 Lab File: VU039651.D
 Acq: 23 Jul 2020 21:15

Tgt Ion: 83 Resp: 3503
 Ion Ratio Lower Upper
 83 100
 55 82.1 62.9 94.3
 98 20.0 36.3 54.5#

Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0





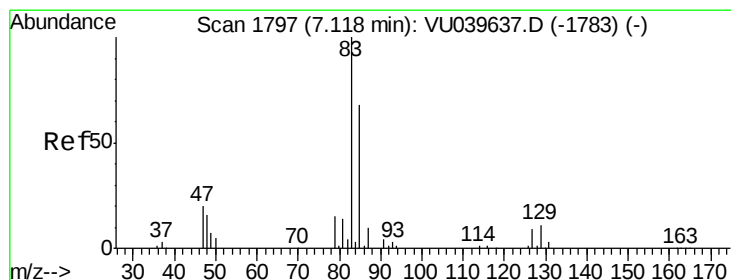
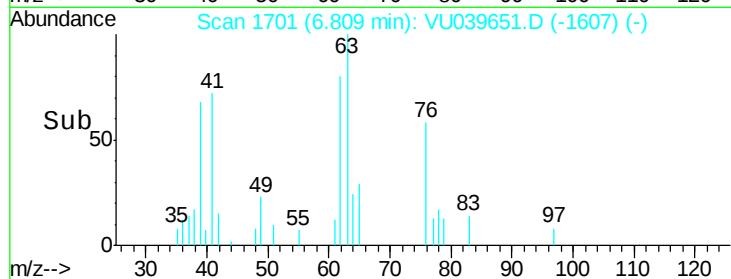
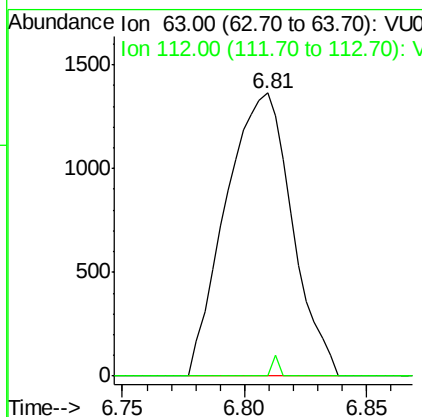
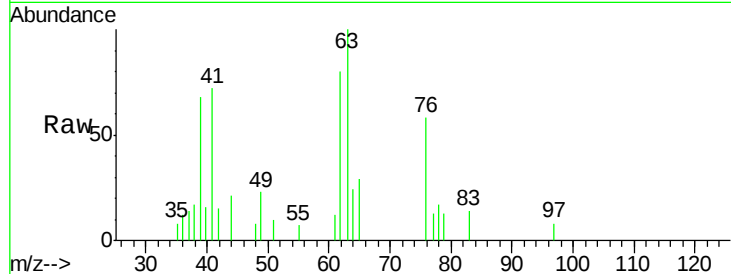
#37
 1,2-Dichloropropane
 Concen: 1.905 ug/L
 RT: 6.81 min Scan# 1701
 Delta R.T. 0.00 min
 Lab File: VU039651.D
 Acq: 23 Jul 2020 21:15

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion: 63 Resp: 2570
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.0 4.4#

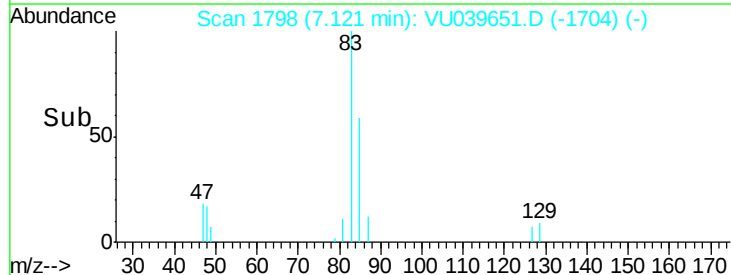
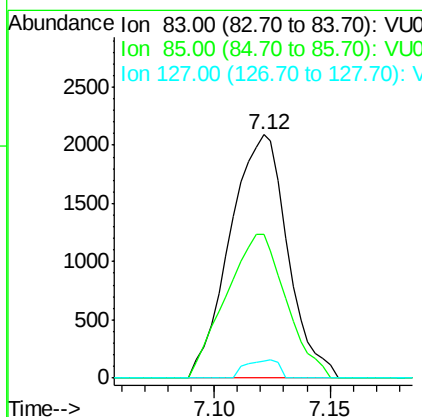
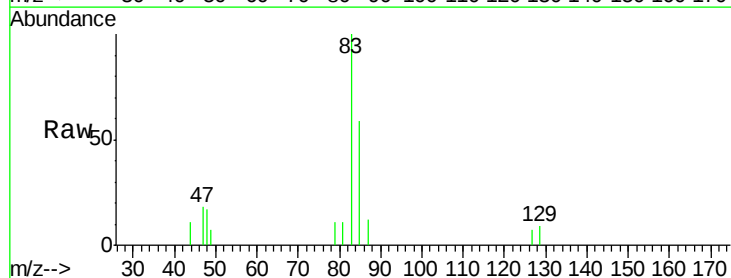
Manual Integrations
 APPROVED

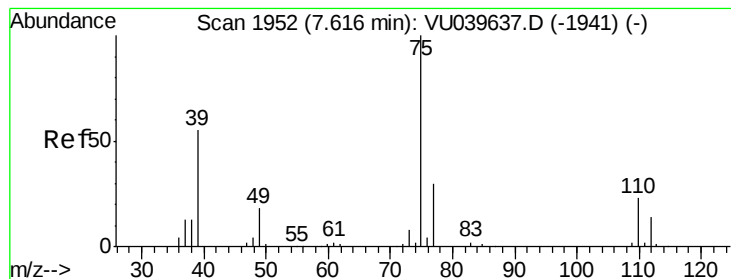
sam
 7/30/2020 2:57:34 AM



#38
 Bromodichloromethane
 Concen: 2.008 ug/L
 RT: 7.12 min Scan# 1798
 Delta R.T. 0.00 min
 Lab File: VU039651.D
 Acq: 23 Jul 2020 21:15

Tgt Ion: 83 Resp: 3599
 Ion Ratio Lower Upper
 83 100
 85 59.0 45.9 85.3
 127 7.1 7.4 11.2#





#39

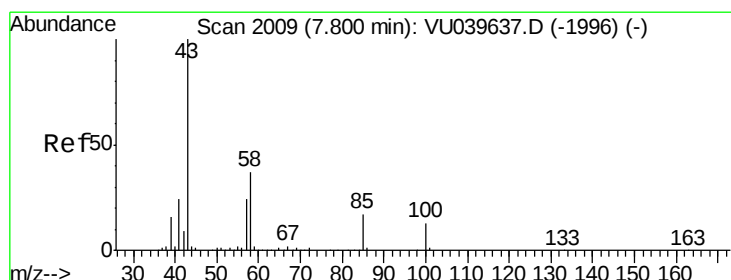
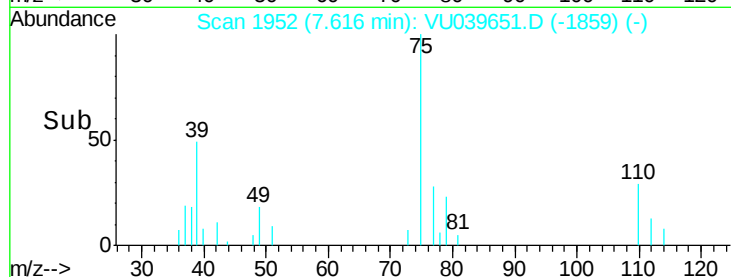
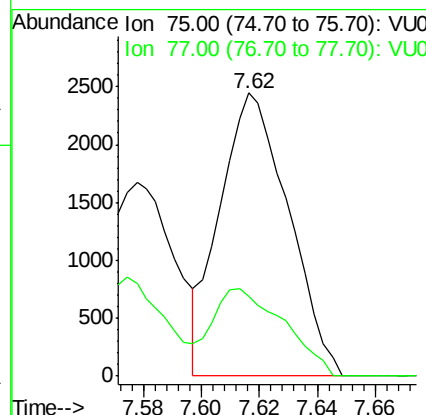
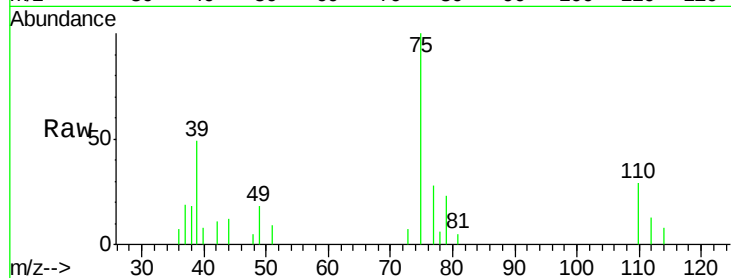
cis-1,3-Dichloropropene
Concen: 1.988 ug/L
RT: 7.62 min Scan# 1952
Delta R.T. -0.00 min
Lab File: VU039651.D
Acq: 23 Jul 2020 21:15

Instrument :
MSVOA_U
ClientSampled :
MDL05

Tot Ion	Ratio	Lower	Upper
75	100		
77	28.3	21.8	40.6

Manual Integrations
APPROVED

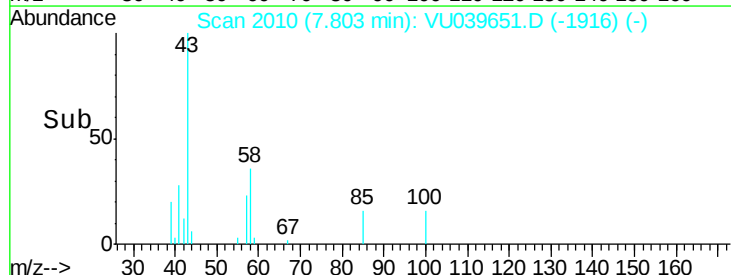
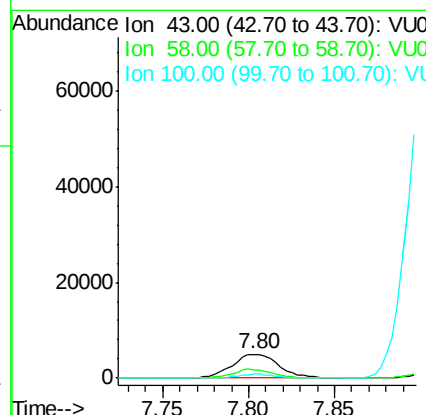
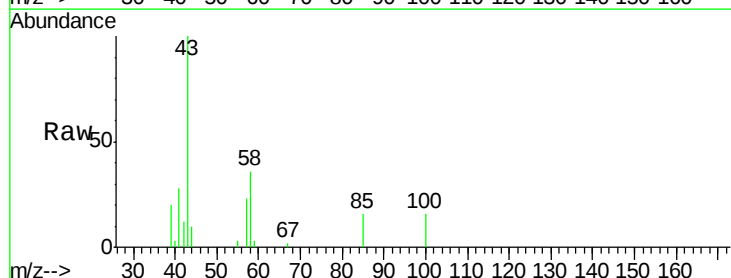
sam
7/30/2020 2:57:34 AM

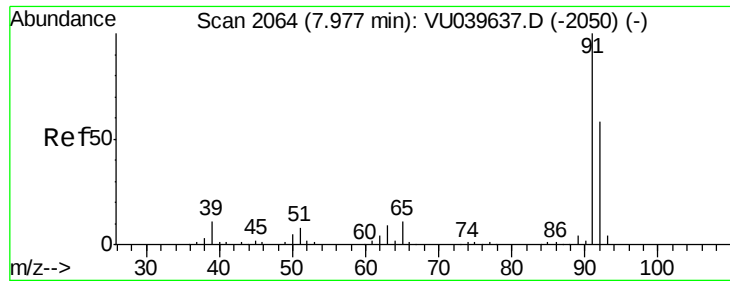


#40

4-Methyl-2-pentanone
Concen: 3.993 ug/L
RT: 7.80 min Scan# 2010
Delta R.T. 0.00 min
Lab File: VU039651.D
Acq: 23 Jul 2020 21:15

Tgt Ion	Ratio	Lower	Upper
43	100		
58	31.1	29.1	43.7
100	13.0	10.6	16.0





#42

Toluene

Concen: 1.854 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 21:15

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion: 91 Resp: 10162

Ion Ratio Lower Upper

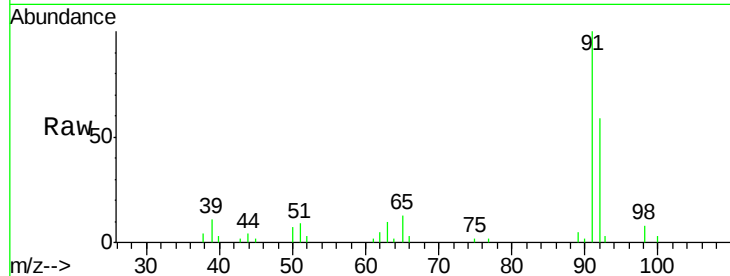
91 100

92 59.1 40.1 74.5

Manual Integrations
APPROVED

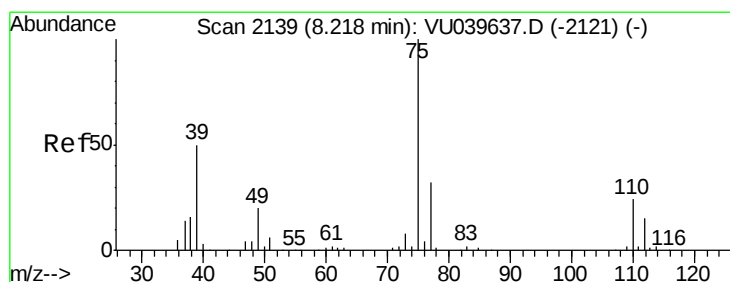
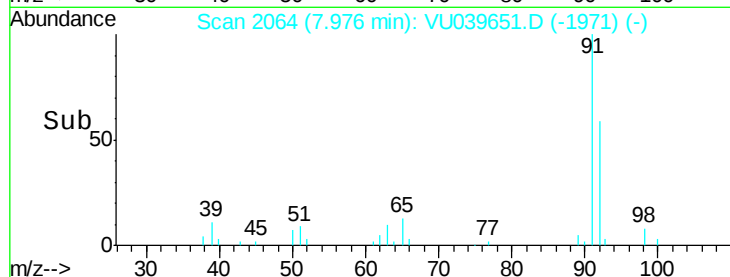
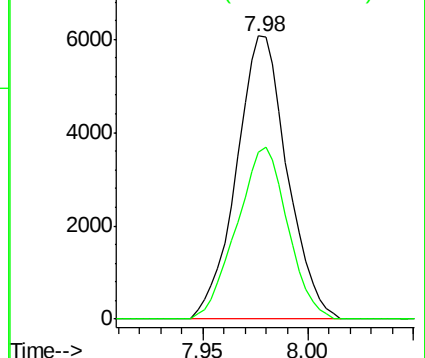
sam

7/30/2020 2:57:34 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: 2.039 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. -0.00 min

Lab File: VU039651.D

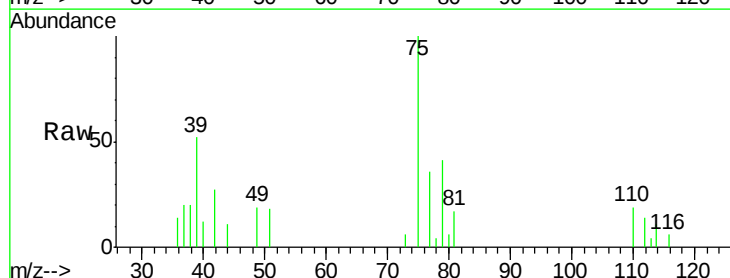
Acq: 23 Jul 2020 21:15

Tgt Ion: 75 Resp: 4026

Ion Ratio Lower Upper

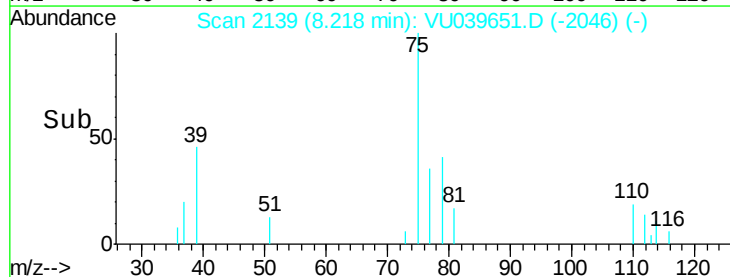
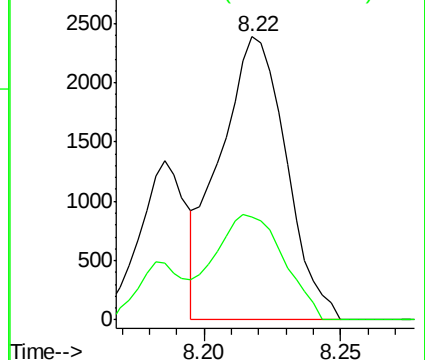
75 100

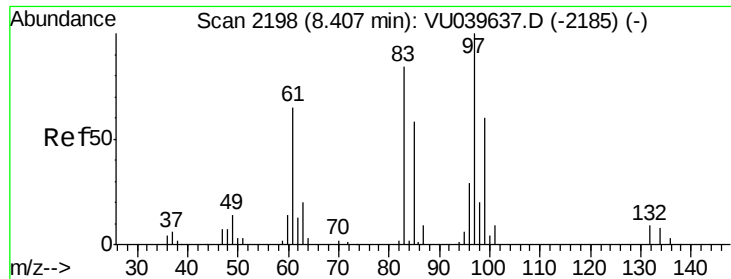
77 36.3 22.7 42.1



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

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





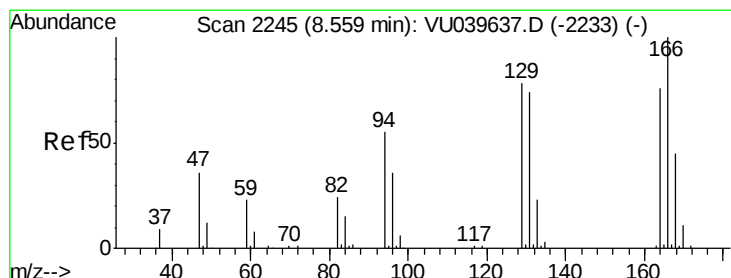
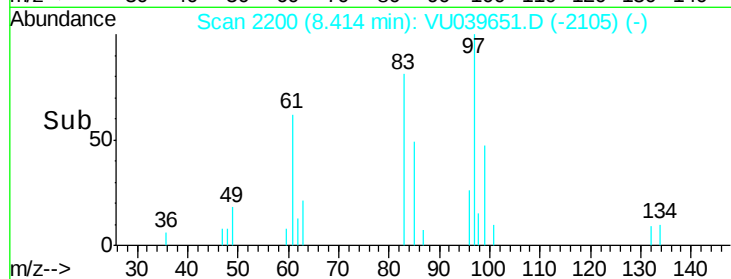
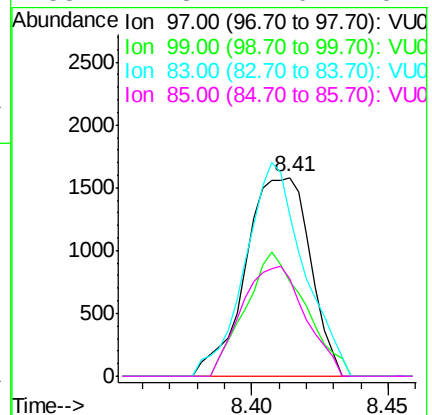
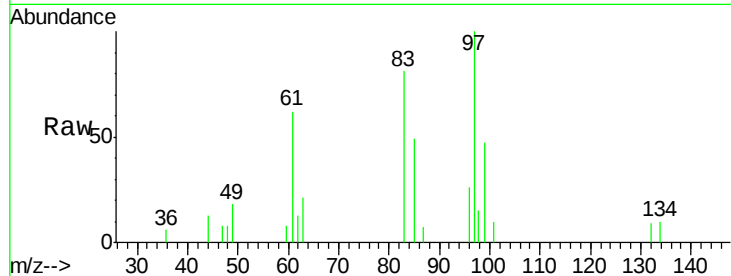
#45
 1,1,2-Trichloroethane
 Concen: 2.024 ug/L
 RT: 8.41 min Scan# 2200
 Delta R.T. 0.01 min
 Lab File: VU039651.D
 Acq: 23 Jul 2020 21:15

Instrument :
 MSVOA_U
 ClientSampleID :
 MDL05

Tot Ion	Ratio	Lower	Upper
97	100		
99	41.3	45.1	83.9#
83	70.6	62.7	116.5
85	42.3	41.0	76.2

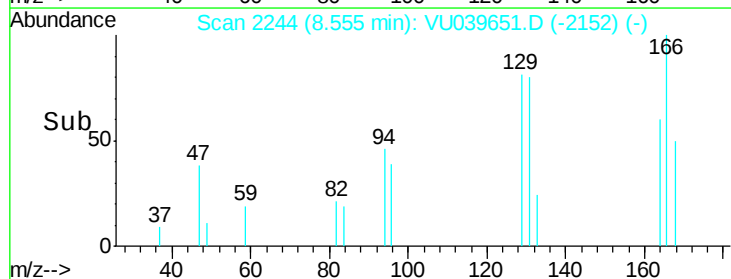
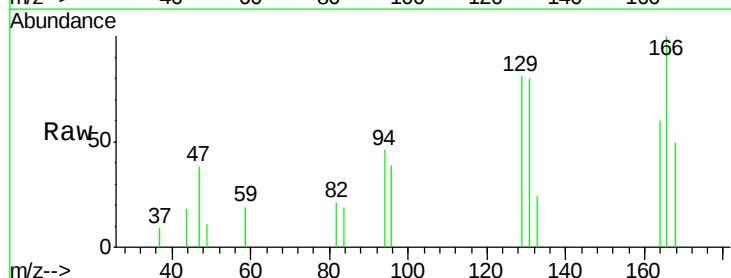
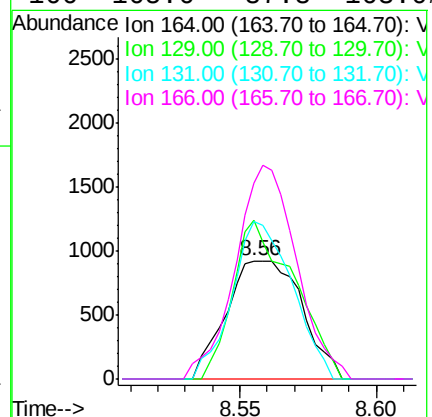
Manual Integrations
 APPROVED

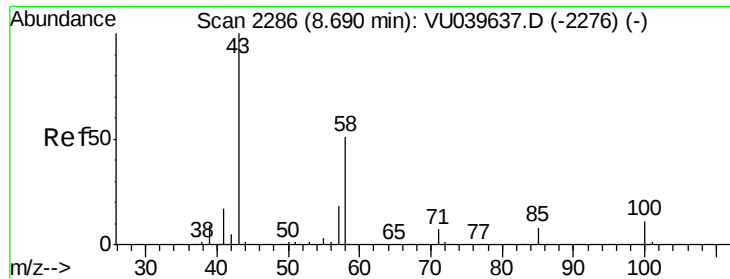
sam
 7/30/2020 2:57:34 AM



#46
 Tetrachloroethene
 Concen: 1.785 ug/L
 RT: 8.56 min Scan# 2244
 Delta R.T. -0.00 min
 Lab File: VU039651.D
 Acq: 23 Jul 2020 21:15

Tgt Ion	Ratio	Lower	Upper
164	100		
129	133.9	71.1	132.1#
131	132.8	70.3	130.5#
166	165.6	87.8	163.0#





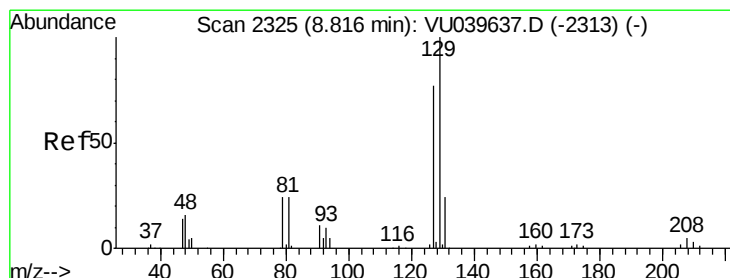
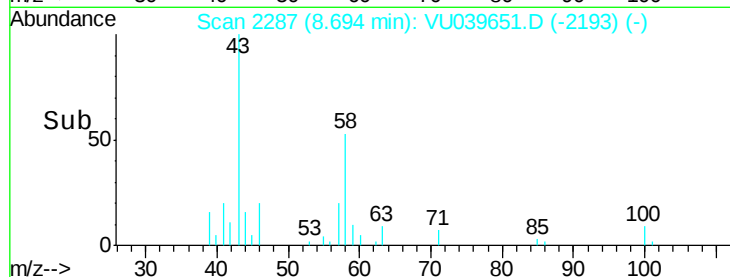
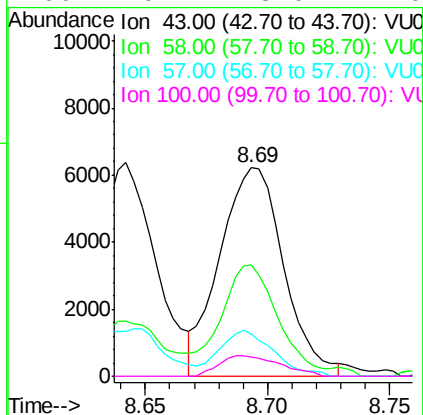
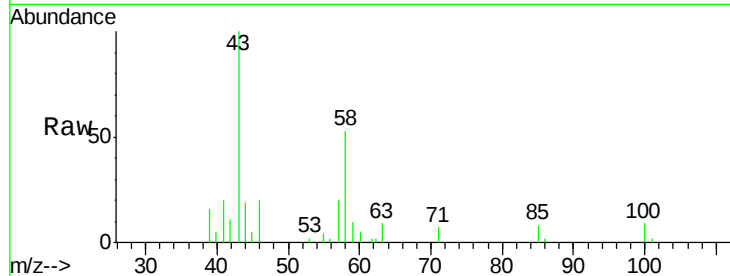
#48
2-Hexanone
Concen: 5.921 ug/L
RT: 8.69 min Scan# 2287
Delta R.T. 0.00 min
Lab File: VU039651.D
Acq: 23 Jul 2020 21:15

Instrument :
MSVOA_U
ClientSampled :
MDL05

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	42.6	40.6	61.0	
57	18.6	14.5	21.7	
100	9.4	8.0	12.0	

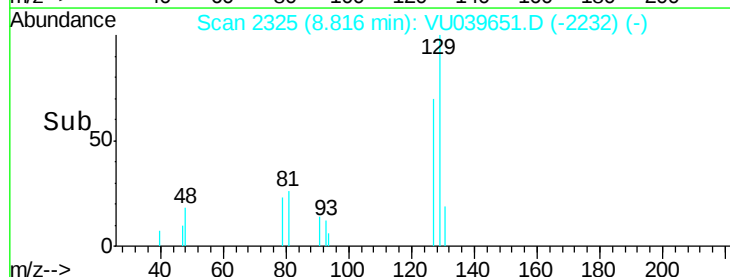
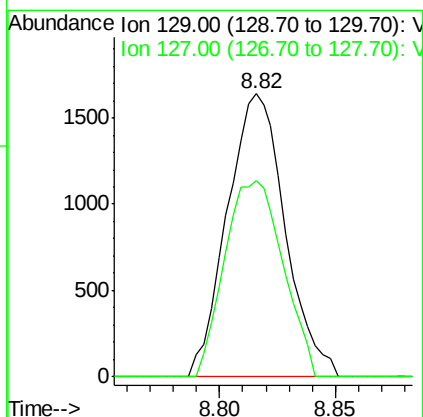
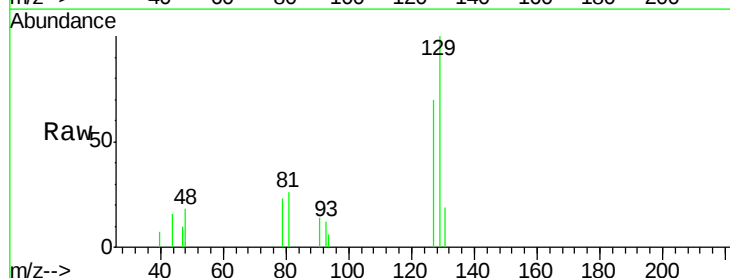
Manual Integrations
APPROVED

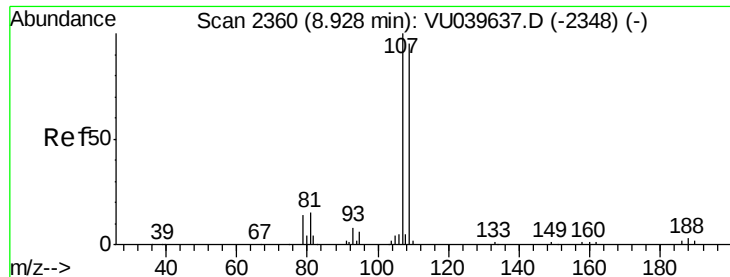
sam
7/30/2020 2:57:34 AM



#49
Dibromochloromethane
Concen: 1.962 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. -0.00 min
Lab File: VU039651.D
Acq: 23 Jul 2020 21:15

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	69.6	54.3	100.9	





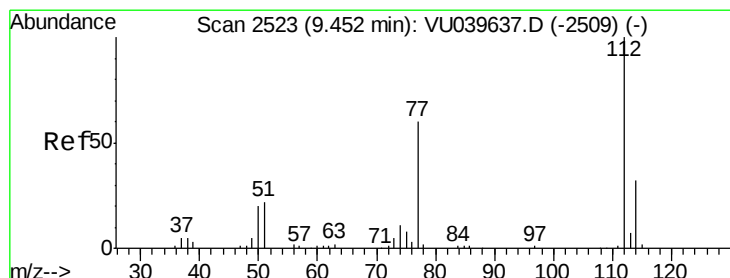
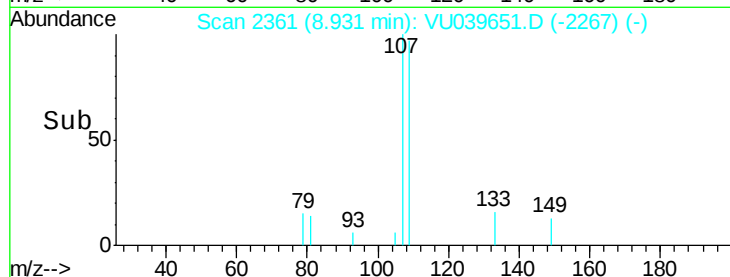
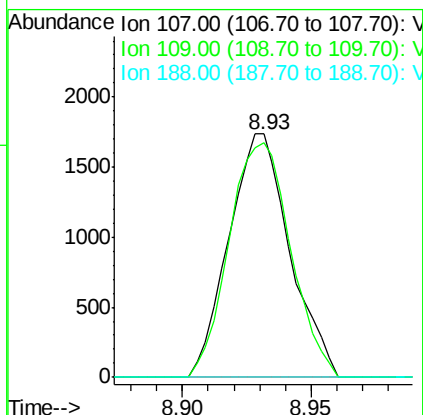
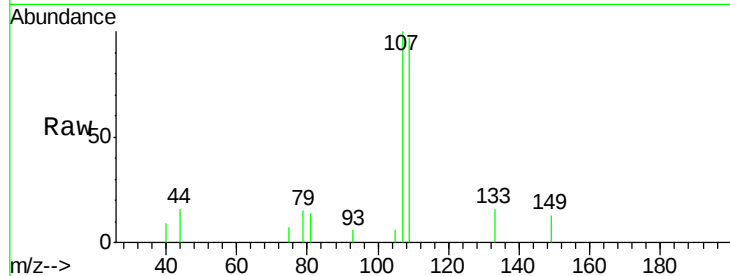
#50
 1,2-Dibromoethane
 Concen: 1.995 ug/L
 RT: 8.93 min Scan# 2361
 Delta R.T. 0.00 min
 Lab File: VU039651.D
 Acq: 23 Jul 2020 21:15

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
107	100		
109	96.5	66.8	124.2
188	0.0	3.0	4.4#

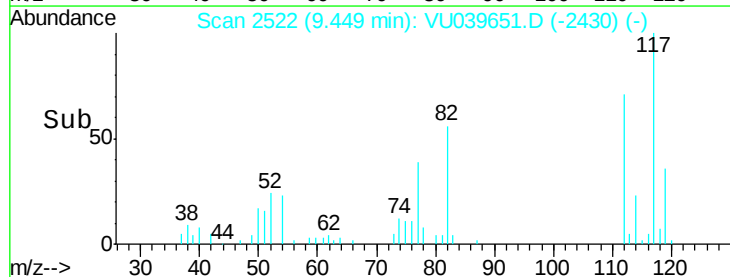
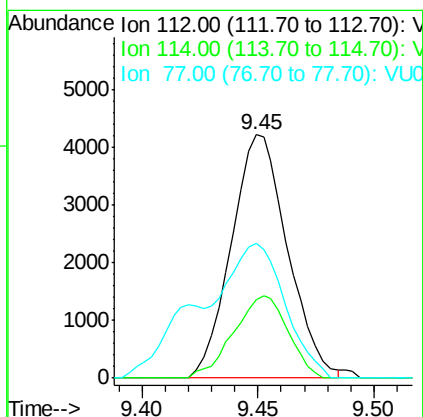
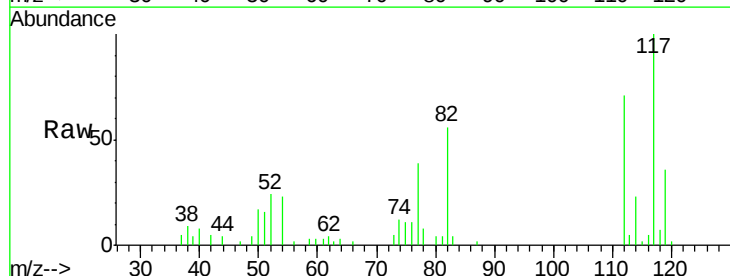
Manual Integrations
 APPROVED

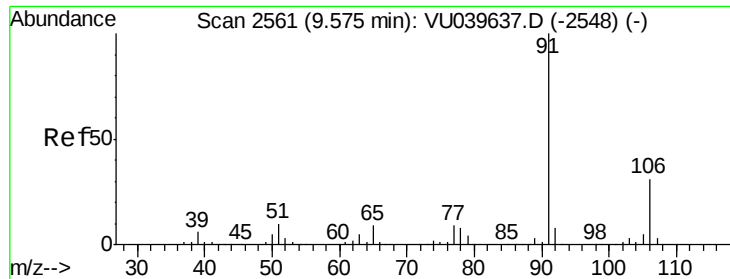
sam
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#51
 Chlorobenzene
 Concen: 2.028 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. -0.00 min
 Lab File: VU039651.D
 Acq: 23 Jul 2020 21:15

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.5	22.9	42.5
77	55.2	49.4	74.0





#52

Ethylbenzene

Concen: 1.852 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 21:15

Tot Ion: 91 Resp: 11219

Ion Ratio Lower Upper

91 100

106 28.1 21.1 39.1

Instrument :

MSVOA_U

ClientSampled :

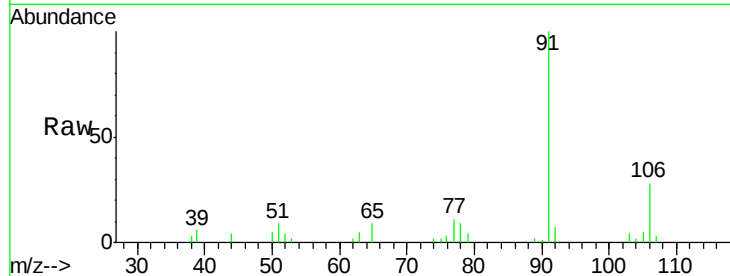
MDL05

Manual Integrations

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Sam

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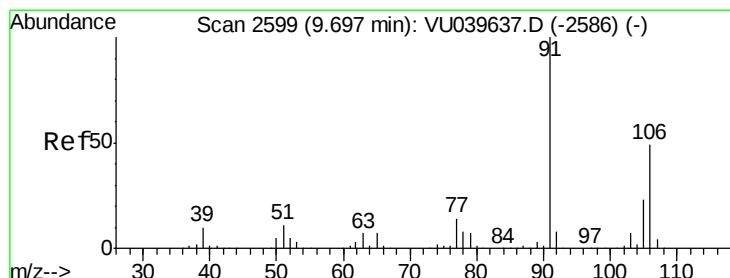
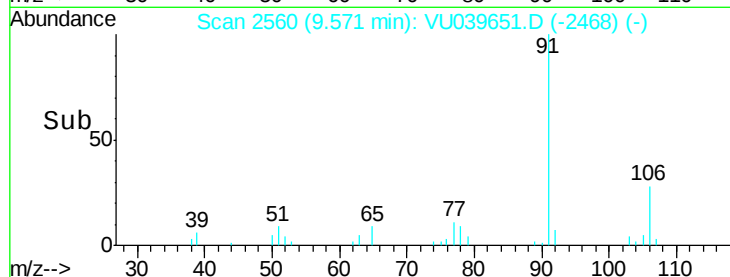


Abundance Ion 91.00 (90.70 to 91.70): VU039651.D (-2468) (-)

Ion 106.00 (105.70 to 106.70): VU039651.D (-2468) (-)

9.57

Time-->



#53

m,p-Xylene

Concen: 1.743 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU039651.D

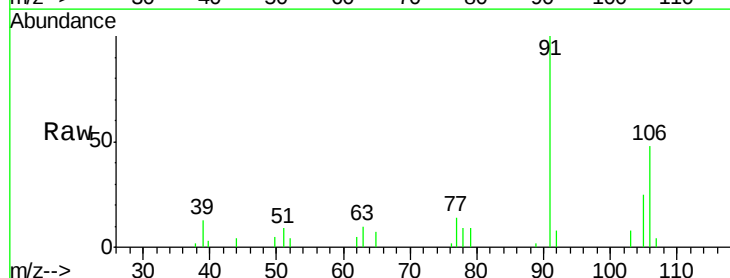
Acq: 23 Jul 2020 21:15

Tgt Ion: 106 Resp: 3980

Ion Ratio Lower Upper

106 100

91 209.4 149.7 277.9

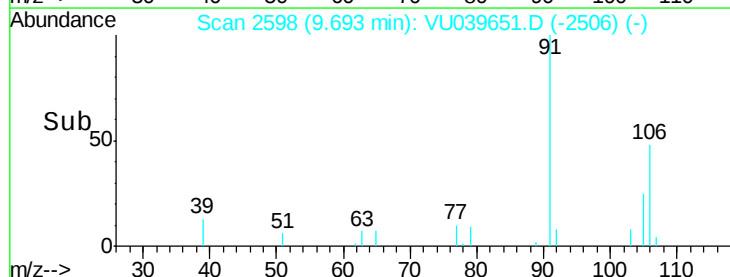


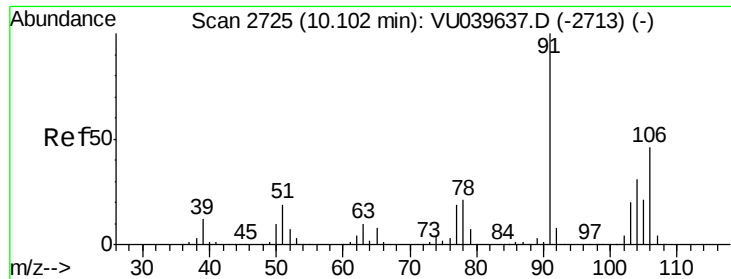
Abundance Ion 106.00 (105.70 to 106.70): VU039651.D (-2506) (-)

Ion 91.00 (90.70 to 91.70): VU039651.D (-2506) (-)

9.69

Time-->





#54

o-xylene

Concen: 1.813 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 21:15

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion:106 Resp: 3972

Ion Ratio Lower Upper

106 100

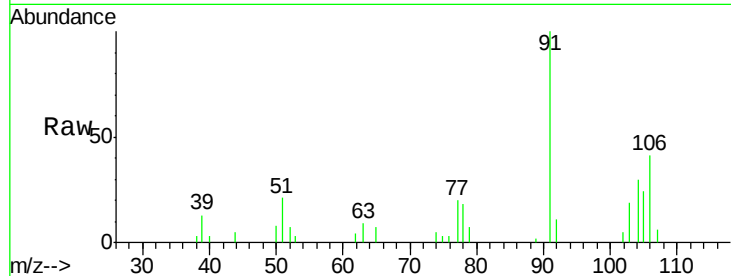
91 243.6 155.1 288.1

Manual Integrations

APPROVED

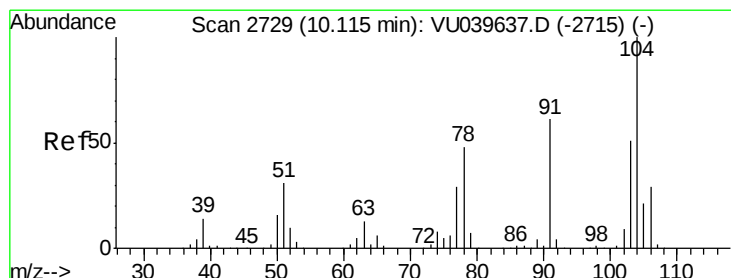
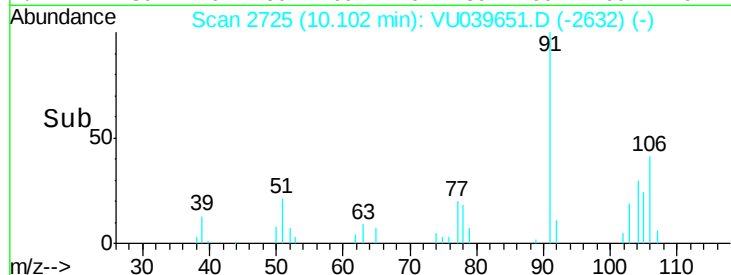
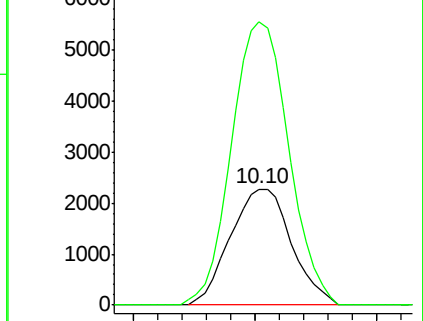
sam

7/30/2020 2:57:34 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.625 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. -0.00 min

Lab File: VU039651.D

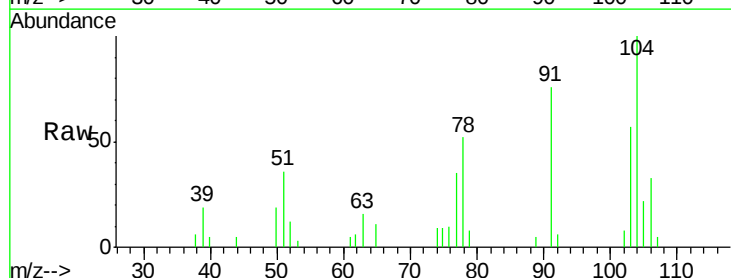
Acq: 23 Jul 2020 21:15

Tgt Ion:104 Resp: 6163

Ion Ratio Lower Upper

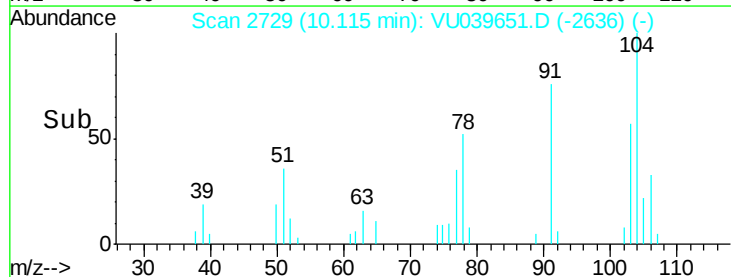
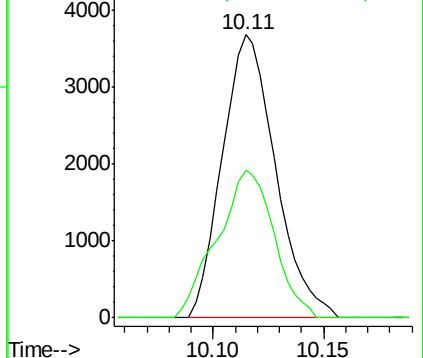
104 100

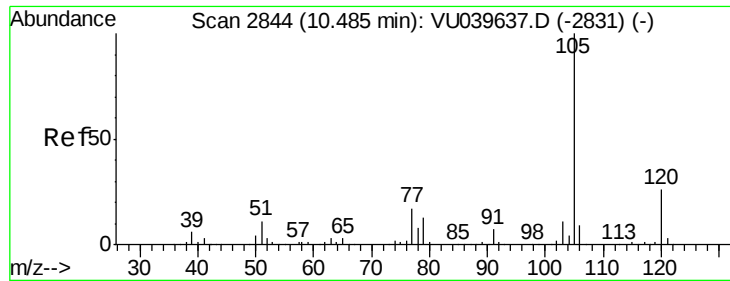
78 52.2 34.3 63.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 1.754 ug/L

RT: 10.49 min Scan# 2845

Delta R.T. 0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 21:15

Instrument :

MSVOA_U

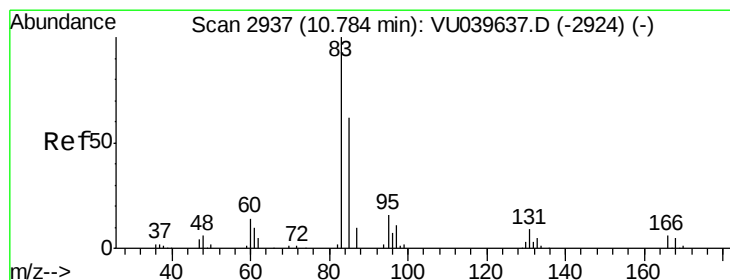
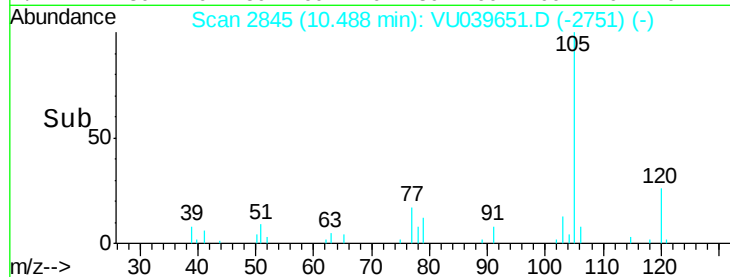
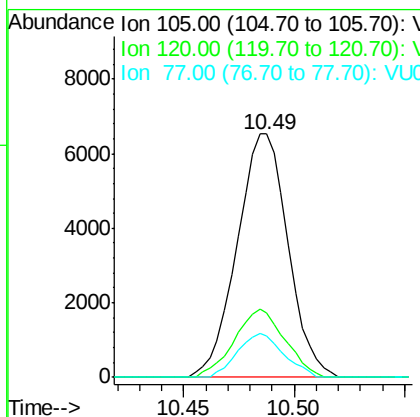
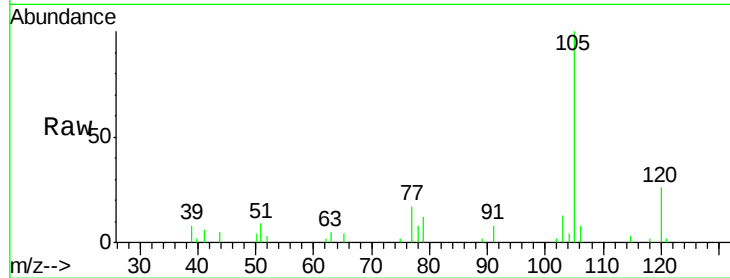
ClientSampled :

MDL05

Tot Ion:	105	Resp:	10435
Ion Ratio	Lower	Upper	
105	100		
120	27.7	20.6	31.0
77	16.3	13.4	20.2

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#58

1,1,2,2-Tetrachloroethane

Concen: 2.112 ug/L

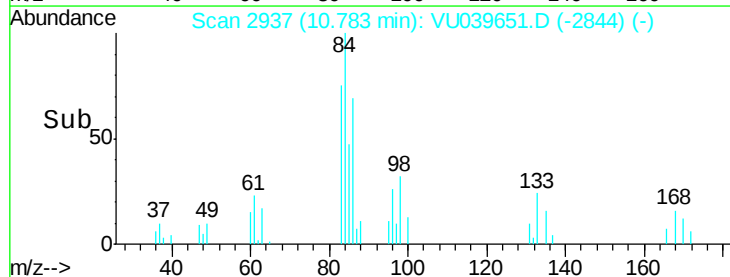
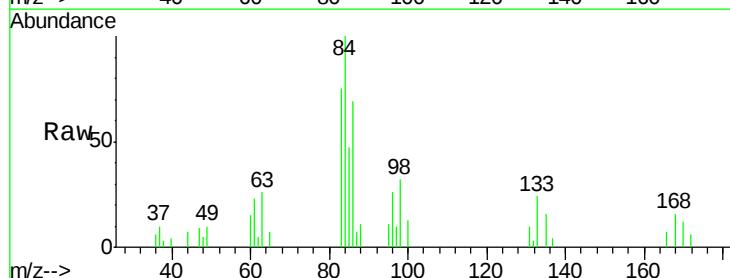
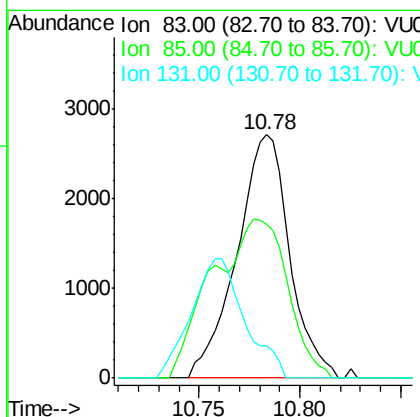
RT: 10.78 min Scan# 2937

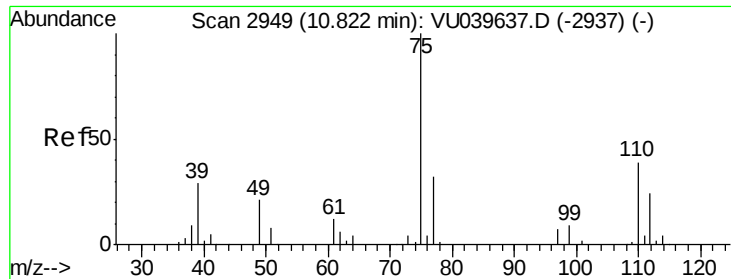
Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 21:15

Tgt Ion:	83	Resp:	4953
Ion Ratio	Lower	Upper	
83	100		
85	63.0	46.4	86.2
131	13.4	7.8	11.6#





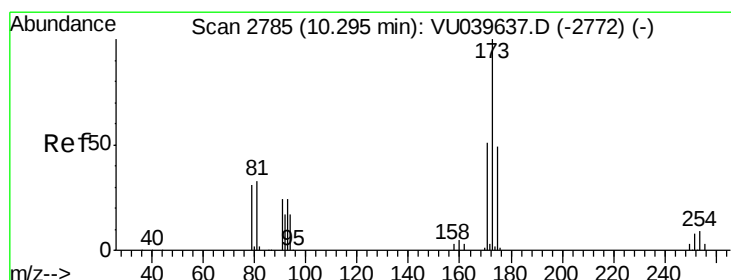
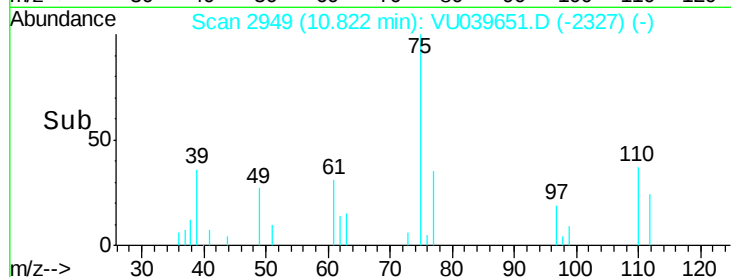
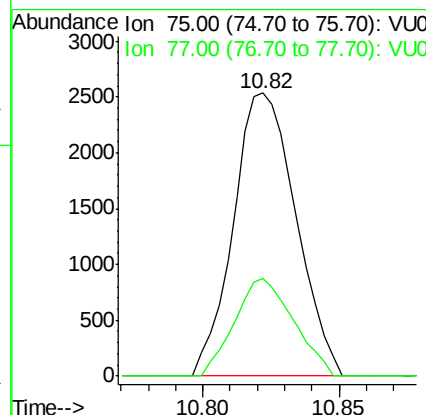
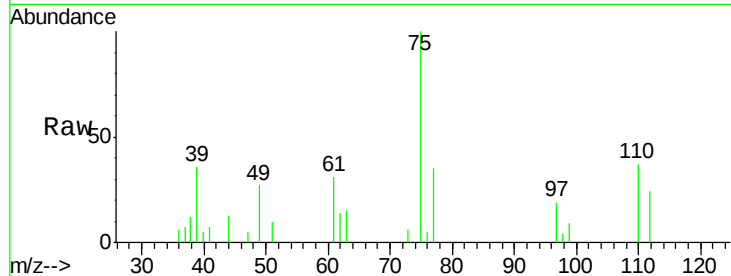
#59
 1,2,3-Trichloropropane
 Concen: 2.058 ug/L
 RT: 10.82 min Scan# 2949
 Delta R.T. -0.00 min
 Lab File: VU039651.D
 Acq: 23 Jul 2020 21:15

Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

Tot Ion: 75 Resp: 4030
 Ion Ratio Lower Upper
 75 100
 77 32.6 25.4 38.2

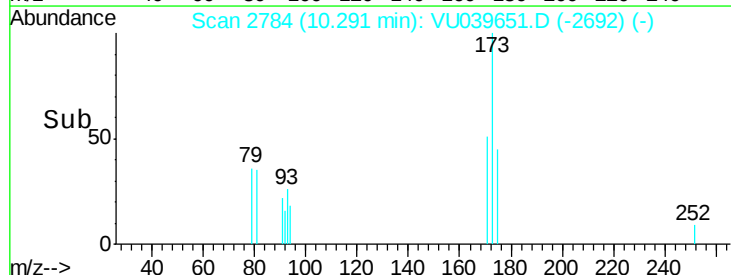
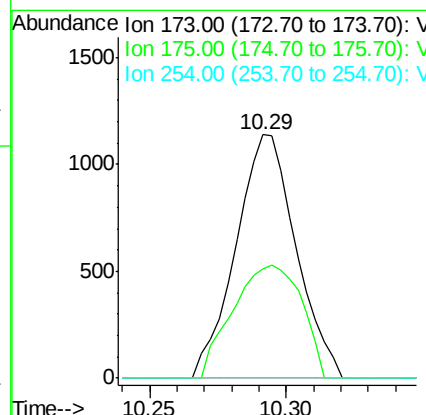
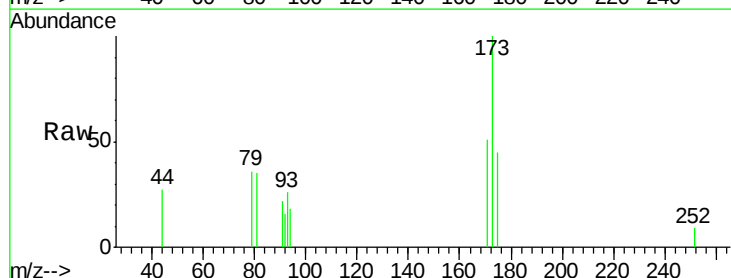
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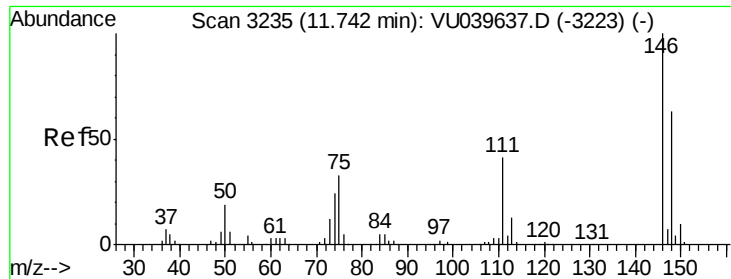
sam
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#61
 Bromoform
 Concen: 1.809 ug/L
 RT: 10.29 min Scan# 2784
 Delta R.T. -0.00 min
 Lab File: VU039651.D
 Acq: 23 Jul 2020 21:15

Tgt Ion: 173 Resp: 1740
 Ion Ratio Lower Upper
 173 100
 175 53.2 38.4 57.6
 254 0.0 7.0 10.6#





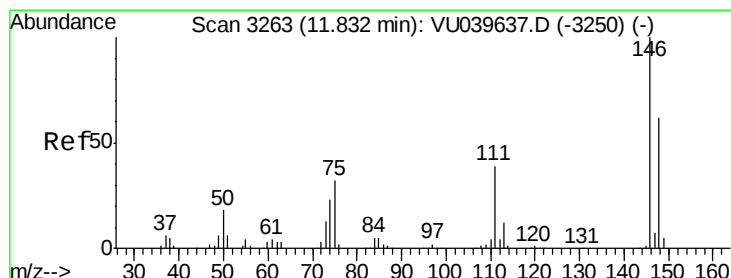
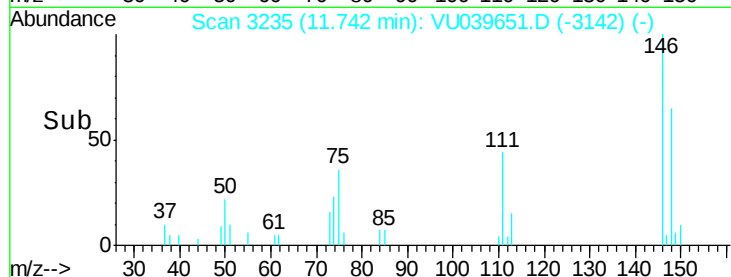
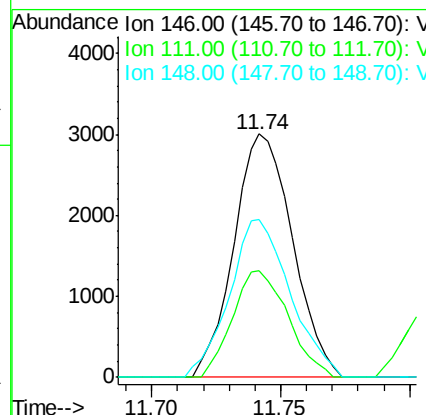
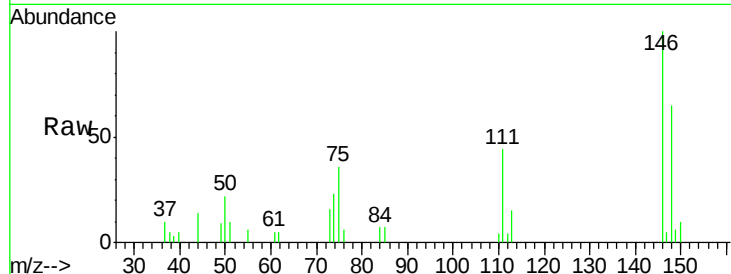
#62
 1,3-Dichlorobenzene
 Concen: 1.910 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU039651.D
 Acq: 23 Jul 2020 21:15

Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.8	29.3	54.3
148	64.9	46.1	85.5

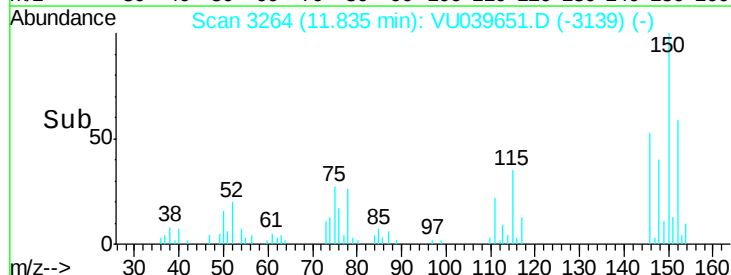
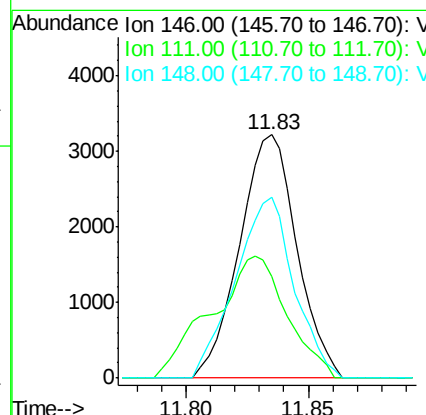
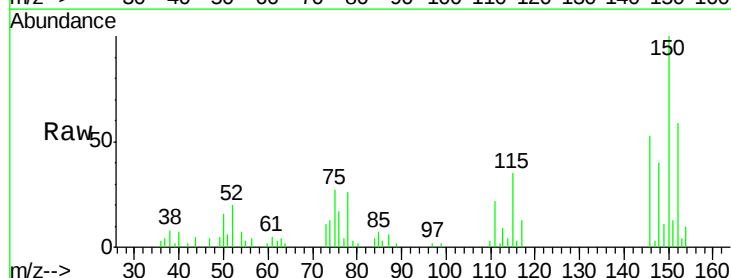
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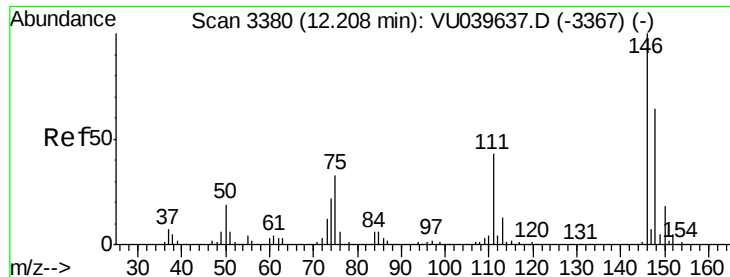
sam
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#63
 1,4-Dichlorobenzene
 Concen: 2.095 ug/L
 RT: 11.83 min Scan# 3264
 Delta R.T. 0.00 min
 Lab File: VU039651.D
 Acq: 23 Jul 2020 21:15

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.9	27.8	51.6
148	74.4	44.7	83.1





#65

1,2-Dichlorobenzene

Concen: 2.129 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 21:15

Instrument :

MSVOA_U

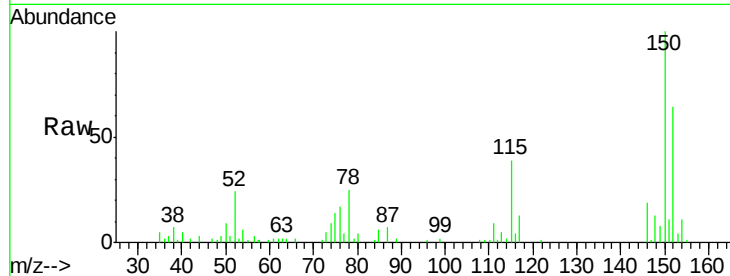
ClientSampled :

MDL05

Tot Ion:	146	Resp:	5358
Ion Ratio	Lower	Upper	
146	100		
111	46.9	34.8	52.2
148	70.9	52.5	78.7

Manual Integrations
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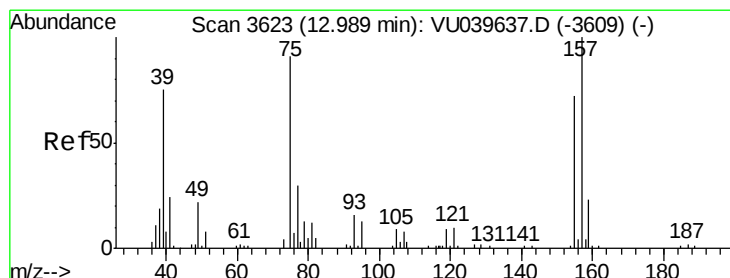
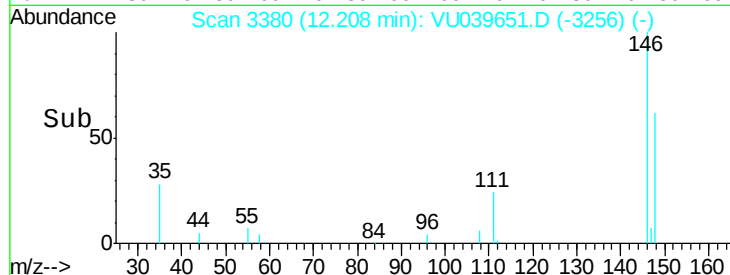
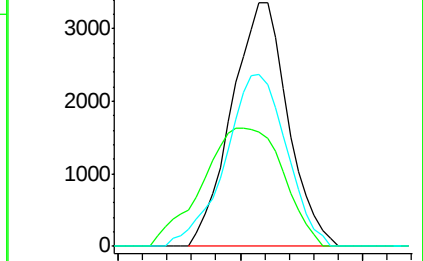
sam
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 1.704 ug/L m

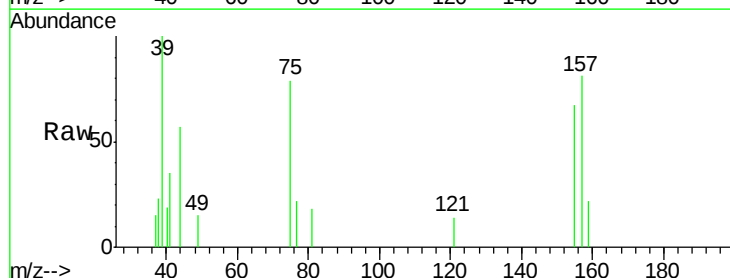
RT: 12.99 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 21:15

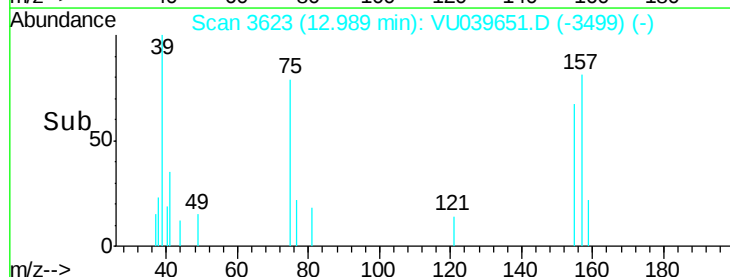
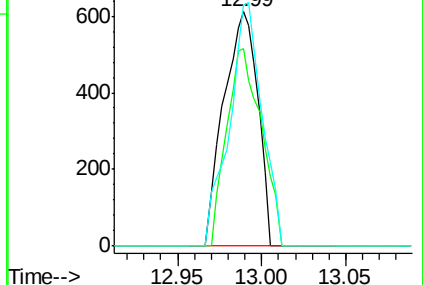
Tgt Ion:	75	Resp:	858
Ion Ratio	Lower	Upper	
75	100		
155	84.5	62.4	93.6
157	103.1	78.9	118.3

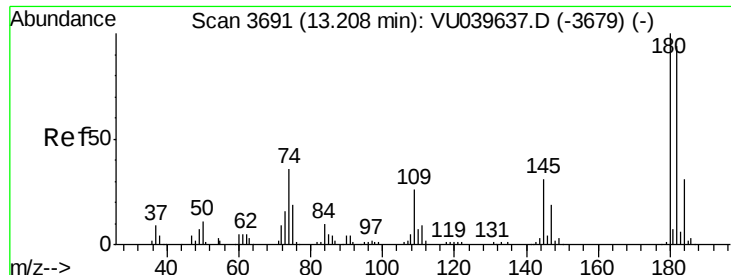


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





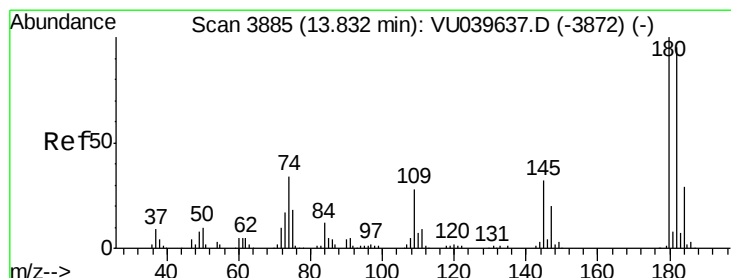
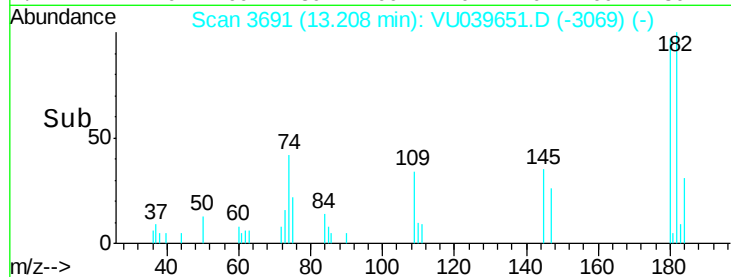
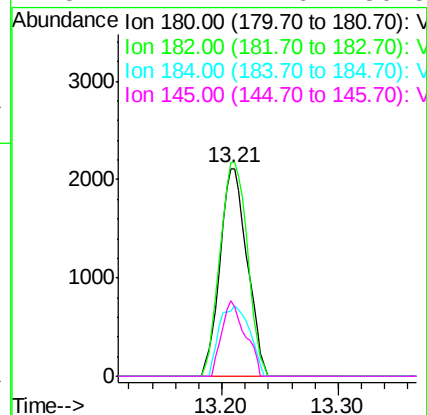
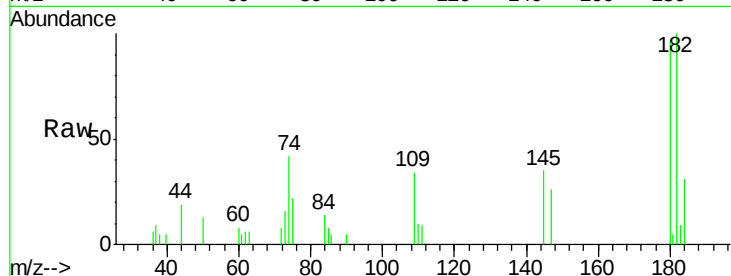
#67
 1,3,5-Trichlorobenzene
 Concen: 1.881 ug/L m
 RT: 13.21 min Scan# 3691
 Delta R.T. -0.00 min
 Lab File: VU039651.D
 Acq: 23 Jul 2020 21:15

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion:180 Resp: 3379
 Ion Ratio Lower Upper
 180 100
 182 84.9 75.7 113.5
 184 28.2 24.2 36.2
 145 24.7 24.6 36.8

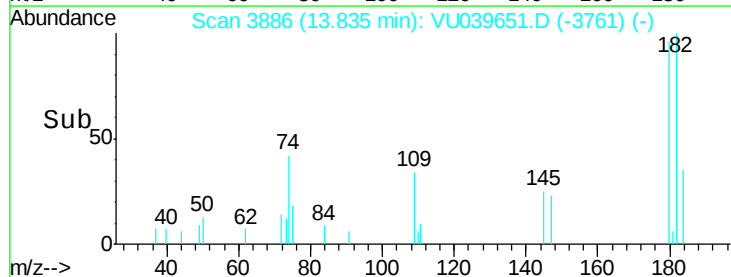
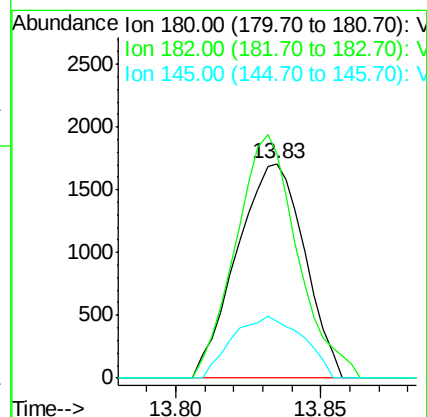
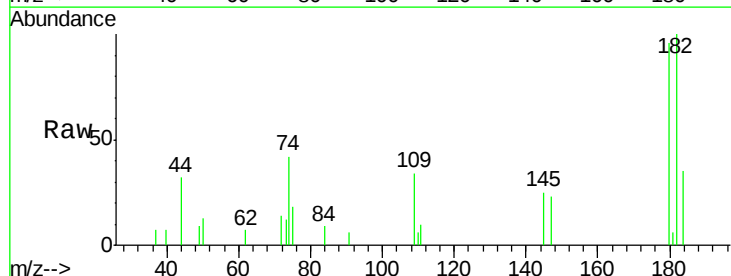
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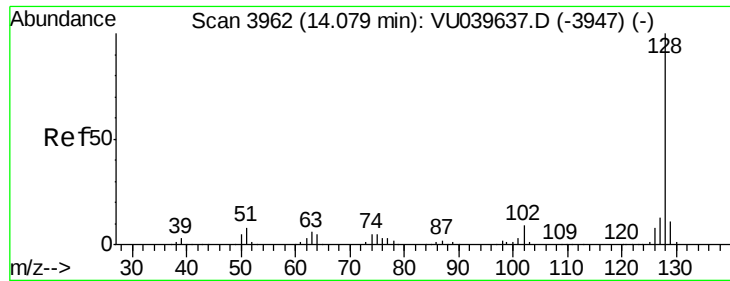
sam
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#68
 1,2,4-trichlorobenzene
 Concen: 1.814 ug/L
 RT: 13.83 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VU039651.D
 Acq: 23 Jul 2020 21:15

Tgt Ion:180 Resp: 2765
 Ion Ratio Lower Upper
 180 100
 182 103.8 74.4 111.6
 145 30.2 24.8 37.2





#69

Naphthalene

Concen: 1.646 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 21:15

Instrument :

MSVOA_U

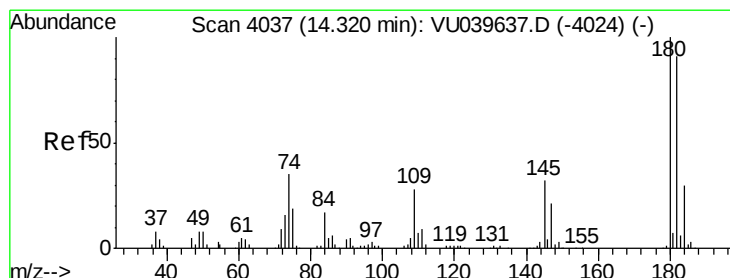
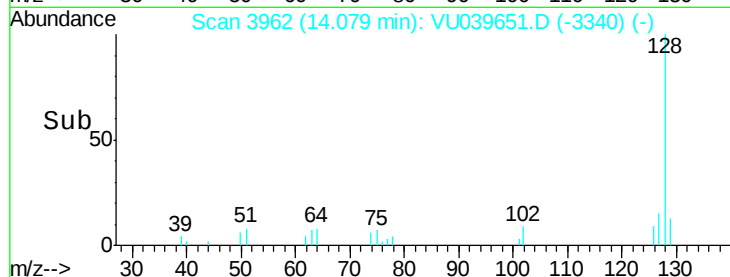
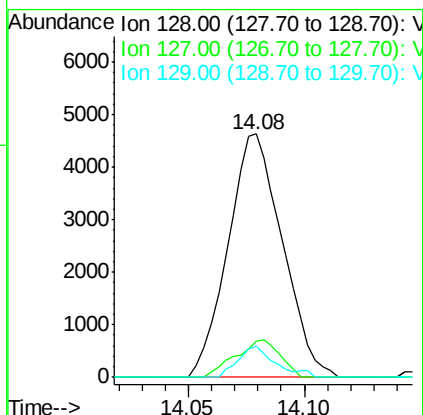
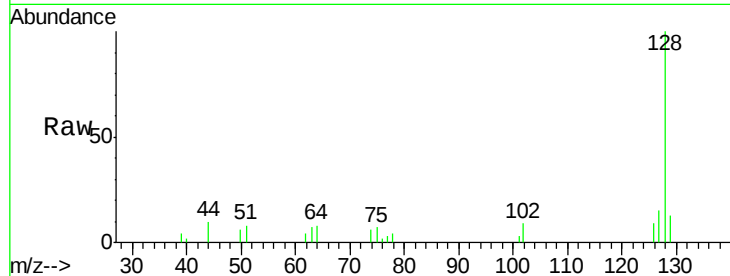
ClientSampleId :

MDL05

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.7	16.1
129	8.1	8.8	13.2

Manual Integrations
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sam
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#70

1,2,3-Trichlorobenzene

Concen: 1.801 ug/L

RT: 14.32 min Scan# 4038

Delta R.T. 0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 21:15

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.6	114.8
145	36.5	27.0	40.4

