

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072320\
 Data File : VU039644.D
 Acq On : 23 Jul 2020 17:57
 Operator : SY/MD
 Sample : MDL05
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 24 02:05:08 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	197882	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	188274	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	88159	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	55095	42.77	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.54%
7) Chloroethane-d5	1.92	69	64806	41.98	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	83.96%
11) 1,1-Dichloroethene-d2	2.58	63	91935	33.71	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.42%
21) 2-Butanone-d5	4.65	46	143589	96.55	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.55%
24) Chloroform-d	5.08	84	128244	44.27	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.54%
26) 1,2-Dichloroethane-d4	5.72	65	93085	44.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.92%
32) Benzene-d6	5.75	84	247704	47.38	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.76%
36) 1,2-Dichloropropane-d6	6.71	67	81721	47.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.34%
41) Toluene-d8	7.91	98	226542	46.05	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.10%
43) trans-1,3-Dichloropropene-	8.19	79	38011	43.93	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.86%
47) 2-Hexanone-d5	8.64	63	88099	94.21	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	94.21%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	122048	44.96	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	89.92%
64) 1,2-Dichlorobenzene-d4	12.19	152	88421	45.87	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.74%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	2740	2.033	ug/L	97
3) Chloromethane	1.53	50	2681	1.914	ug/L	92
5) Vinyl chloride	1.61	62	3371	2.369	ug/L #	73
6) Bromomethane	1.87	94	2351	2.199	ug/L	92
8) Chloroethane	1.94	64	2770	2.189	ug/L	94
9) Trichlorofluoromethane	2.15	101	5090	2.024	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	3205	2.648	ug/L #	78
12) 1,1-Dichloroethene	2.59	96	2743	2.430	ug/L #	1
13) Acetone	2.65	43	1943	1.963	ug/L	65
14) Carbon disulfide	2.81	76	7379	2.043	ug/L	96
15) Methyl Acetate	2.97	43	3481	1.963	ug/L	98
16) Methylene chloride	3.06	84	2857	2.113	ug/L	89
17) trans-1,2-Dichloroethene	3.37	96	2475	1.970	ug/L	84
18) Methyl tert-butyl Ether	3.38	73	8011	1.974	ug/L #	89
19) 1,1-Dichloroethane	3.89	63	4876	1.989	ug/L	95
20) cis-1,2-Dichloroethene	4.69	96	3019	2.103	ug/L	99
22) 2-Butanone	4.73	43	5759	4.129	ug/L	76

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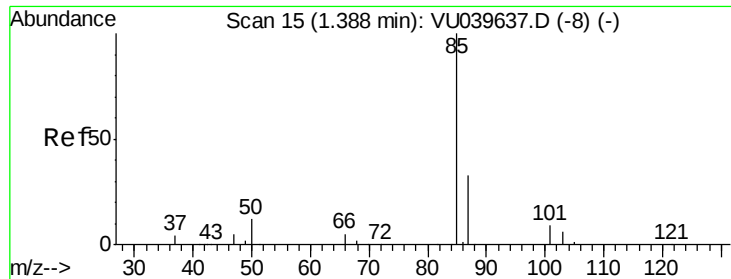
Instrument :
 MSVOA_U
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	5.00	128	1268	1.758	ug/L #	82
25) Chloroform	5.11	83	9918	3.648	ug/L	94
27) 1,2-Dichloroethane	5.81	62	4574	2.029	ug/L #	95
29) Cyclohexane	5.41	56	4371	2.137	ug/L	97
30) 1,1,1-Trichloroethane	5.33	97	4867	2.159	ug/L	98
31) Carbon tetrachloride	5.54	117	3873	2.072	ug/L	98
33) Benzene	5.79	78	10790	2.079	ug/L	100
34) Trichloroethene	6.55	95	2671	1.946	ug/L	95
35) Methylcyclohexane	6.78	83	3901	1.838	ug/L	96
37) 1,2-Dichloropropane	6.80	63	2751	1.958	ug/L #	94
38) Bromodichloromethane	7.12	83	3848	2.062	ug/L	92
39) cis-1,3-Dichloropropene	7.62	75	4193	1.997	ug/L	99
40) 4-Methyl-2-pentanone	7.80	43	9697	3.962	ug/L	97
42) Toluene	7.98	91	11603	2.033	ug/L	94
44) trans-1,3-Dichloropropene	8.22	75	3821	1.858	ug/L	88
45) 1,1,2-Trichloroethane	8.40	97	2461	1.837	ug/L	89
46) Tetrachloroethene	8.56	164	2056	1.980	ug/L	91
48) 2-Hexanone	8.69	43	12564	6.300	ug/L	96
49) Dibromochloromethane	8.82	129	3119	2.062	ug/L	99
50) 1,2-Dibromoethane	8.93	107	2941	1.973	ug/L #	95
51) Chlorobenzene	9.45	112	7240	1.988	ug/L	90
52) Ethylbenzene	9.57	91	11864	1.881	ug/L	96
53) m,p-Xylene	9.69	106	4447	1.871	ug/L	99
54) o-xylene	10.10	106	4371	1.916	ug/L	93
55) Styrene	10.11	104	6628	1.679	ug/L	91
56) Isopropylbenzene	10.49	105	11569	1.868	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	5402	2.212	ug/L #	89
59) 1,2,3-Trichloropropane	10.82	75	4024	1.974	ug/L	94
61) Bromoform	10.29	173	1623	1.556	ug/L #	83
62) 1,3-Dichlorobenzene	11.74	146	5490	2.033	ug/L	95
63) 1,4-Dichlorobenzene	11.83	146	6296	2.327	ug/L	90
65) 1,2-Dichlorobenzene	12.21	146	5666	2.076	ug/L	97
67) 1,3,5-Trichlorobenzene	13.21	180	3826	1.965	ug/L	97
68) 1,2,4-trichlorobenzene	13.83	180	3051	1.846	ug/L	97
69) Naphthalene	14.08	128	8121	1.638	ug/L	96
70) 1,2,3-Trichlorobenzene	14.32	180	2890	1.731	ug/L	95

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



#2

Dichlorodifluoromethane

Concen: 2.033 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 17:57

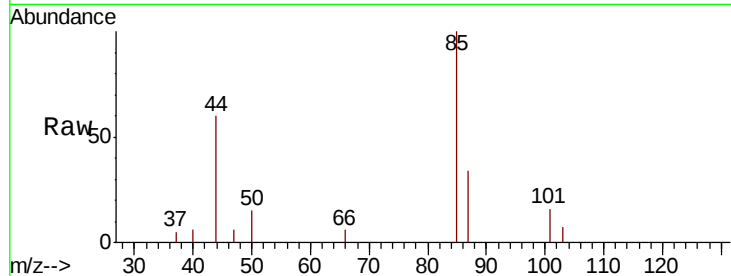
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 2740

Ion Ratio Lower Upper

85 100

87 30.9 26.2 39.4



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

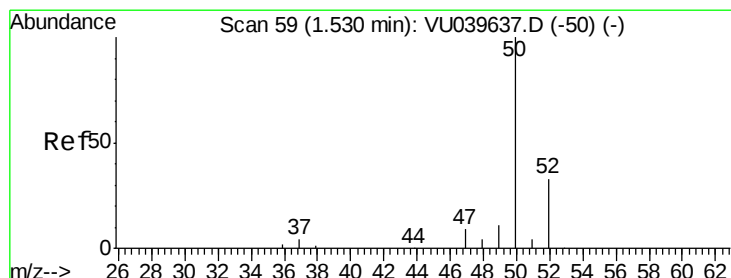
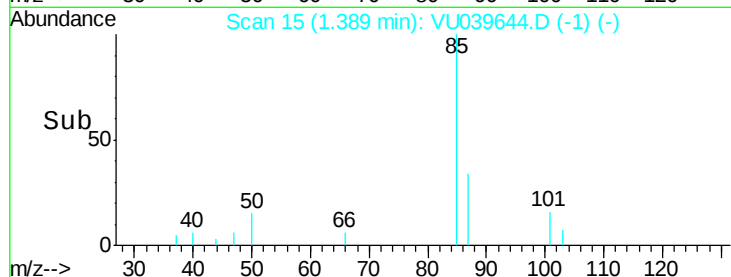
1000

500

0

Time-->

1.36 1.38 1.40 1.42



#3

Chloromethane

Concen: 1.914 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU039644.D

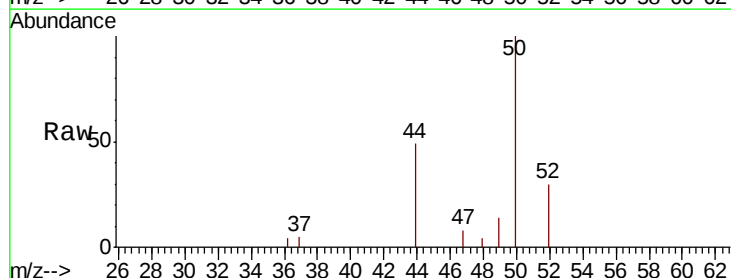
Acq: 23 Jul 2020 17:57

Tgt Ion: 50 Resp: 2681

Ion Ratio Lower Upper

50 100

52 29.9 24.0 44.6



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

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

1.53

3000

2500

2000

1500

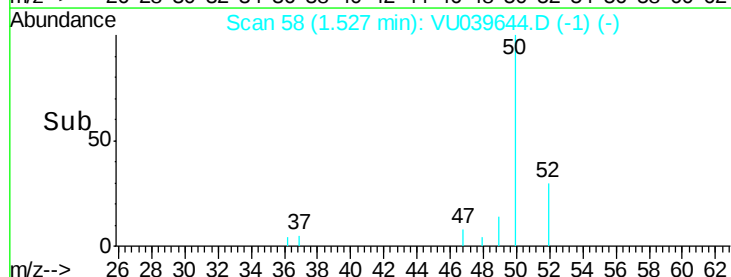
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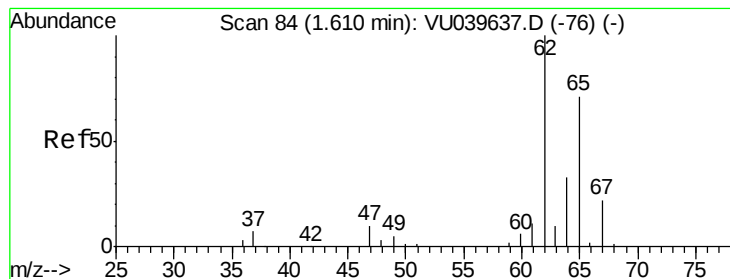
500

0

Time-->

1.50 1.52 1.54 1.56





#5

Vinyl chloride

Concen: 2.369 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 17:57

Instrument :

MSVOA_U

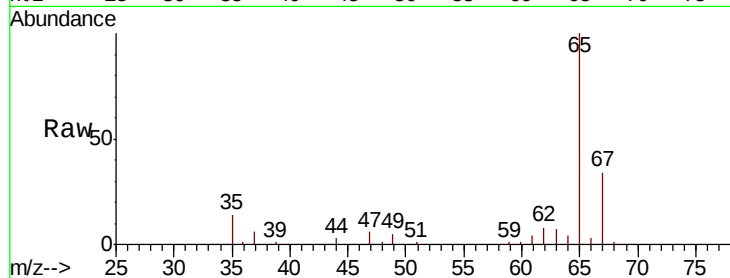
ClientSampleId :

Tot Ion: 62 Resp: 3371

Ion Ratio Lower Upper

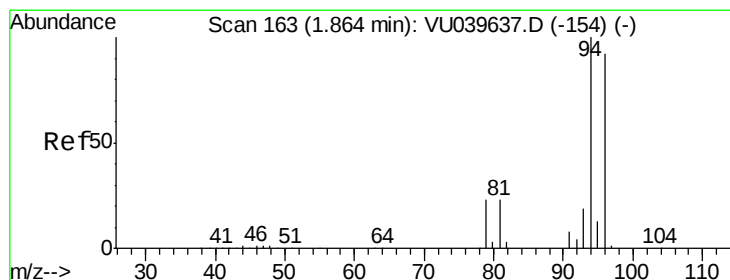
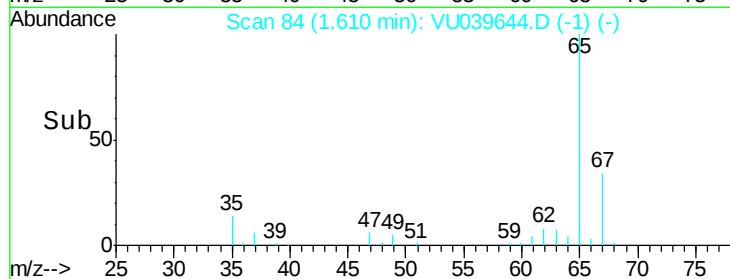
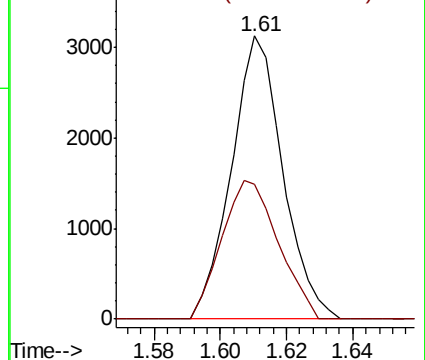
62 100

64 47.6 22.8 42.4#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 2.199 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU039644.D

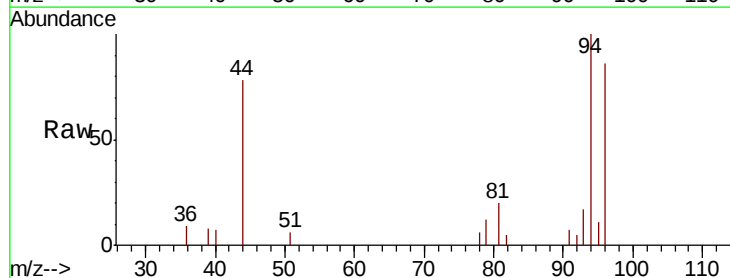
Acq: 23 Jul 2020 17:57

Tgt Ion: 94 Resp: 2351

Ion Ratio Lower Upper

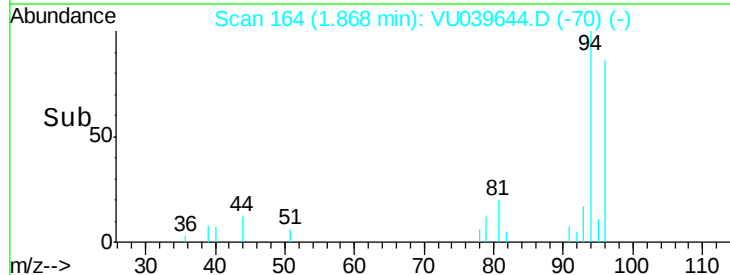
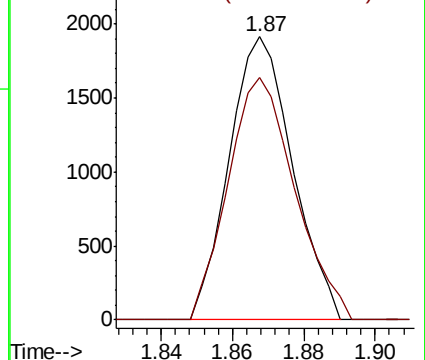
94 100

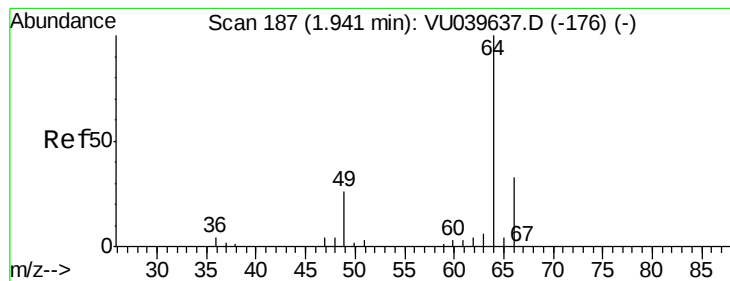
96 85.8 65.7 122.1



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 2.189 ug/L

RT: 1.94 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 17:57

Instrument :

MSVOA_U

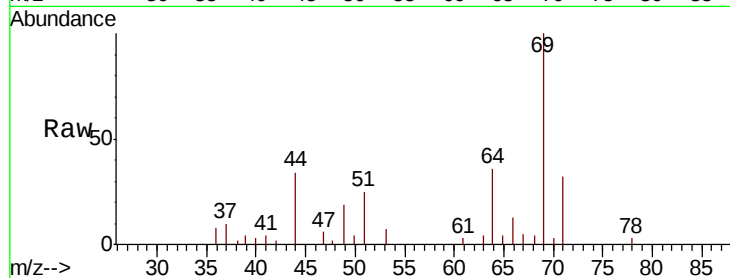
ClientSampleId :

Tot Ion: 64 Resp: 2770

Ion Ratio Lower Upper

64 100

66 36.0 22.7 42.1



Abundance Ion 64.00 (63.70 to 64.70): VU039644.D (-63) (-)

Ion 66.00 (65.70 to 66.70): VU039644.D (-63) (-)

1.94

2000

1500

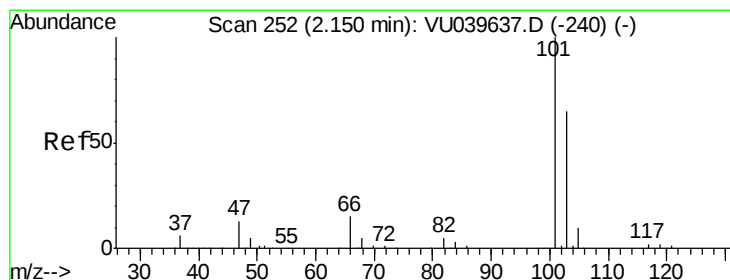
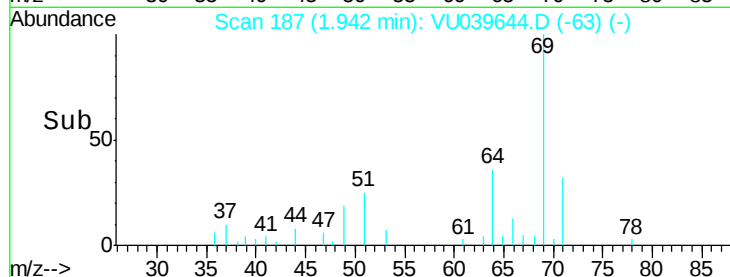
1000

500

0

1.90 1.95

Time-->



#9

Trichlorofluoromethane

Concen: 2.024 ug/L

RT: 2.15 min Scan# 252

Delta R.T. 0.00 min

Lab File: VU039644.D

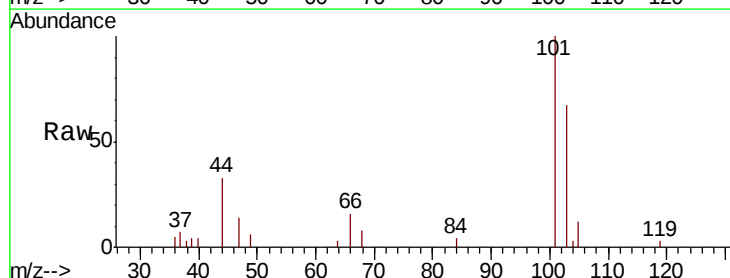
Acq: 23 Jul 2020 17:57

Tgt Ion: 101 Resp: 5090

Ion Ratio Lower Upper

101 100

103 67.9 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): VU039644.D (-128) (-)

Ion 103.00 (102.70 to 103.70): VU039644.D (-128) (-)

2.15

4000

3000

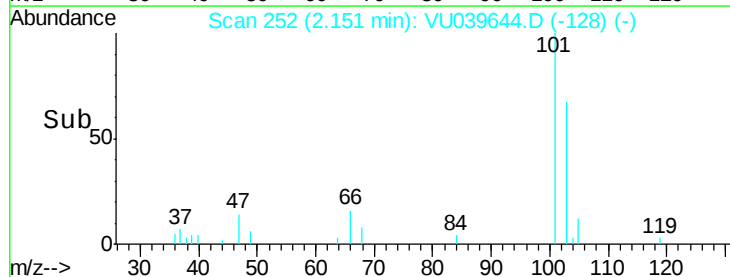
2000

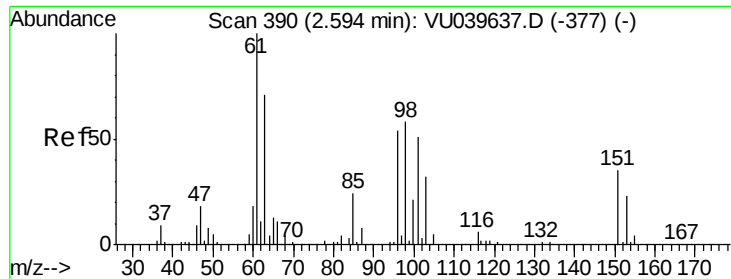
1000

0

2.10 2.15

Time-->





#10

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

Concen: 2.648 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 17:57

Instrument :

MSVOA_U

ClientSampleId :

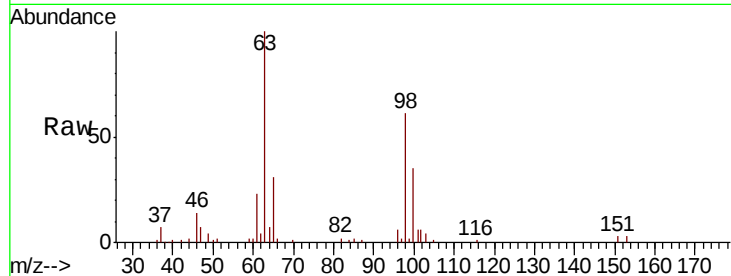
Tot Ion:101 Resp: 3205

Ion Ratio Lower Upper

101 100

85 36.3 39.7 59.5#

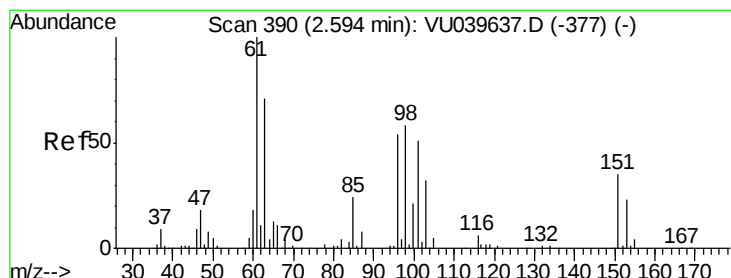
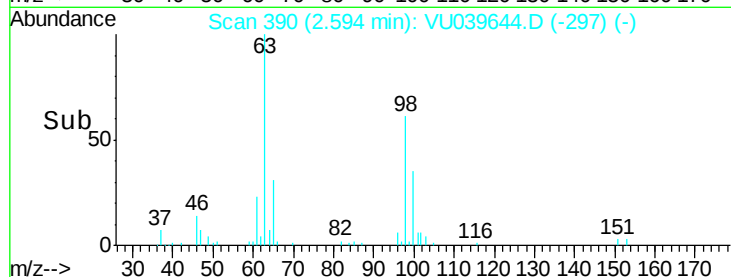
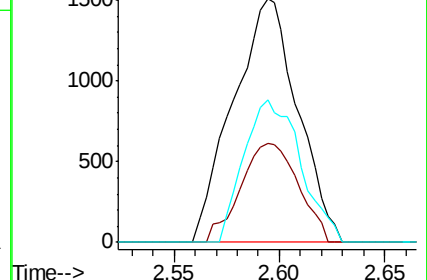
151 51.5 57.4 86.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 2.430 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 17:57

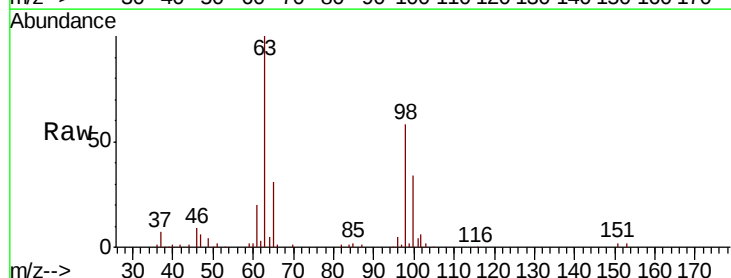
Tgt Ion: 96 Resp: 2743

Ion Ratio Lower Upper

96 100

61 430.9 136.6 253.6#

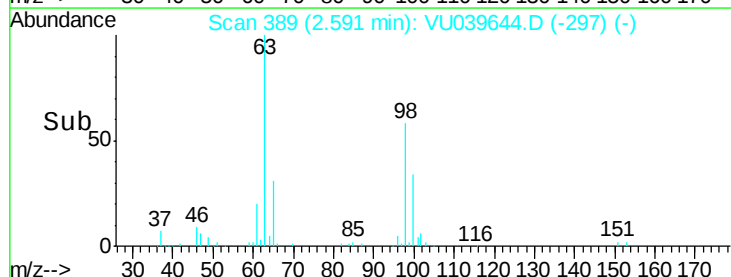
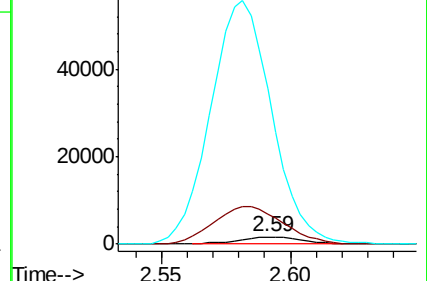
63 2203.2 97.2 180.6#

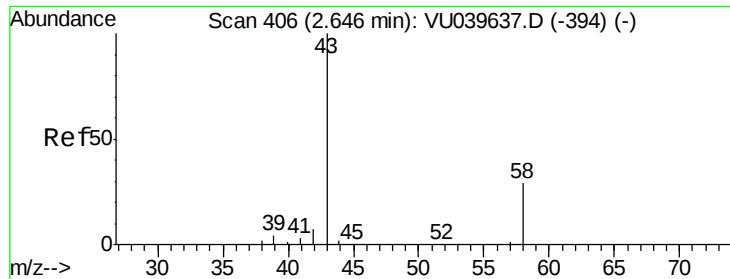


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.963 ug/L

RT: 2.65 min Scan# 408

Delta R.T. 0.01 min

Lab File: VU039644.D

Acq: 23 Jul 2020 17:57

Instrument :

MSVOA_U

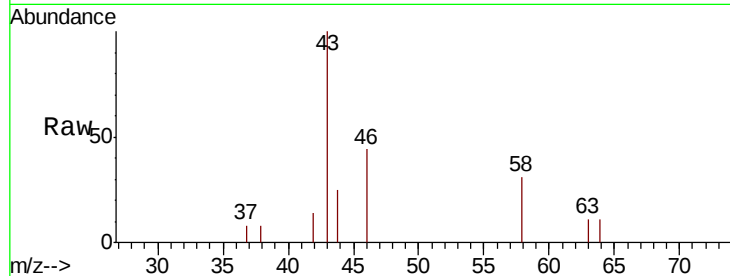
ClientSampleId :

Tot Ion: 43 Resp: 1943

Ion Ratio Lower Upper

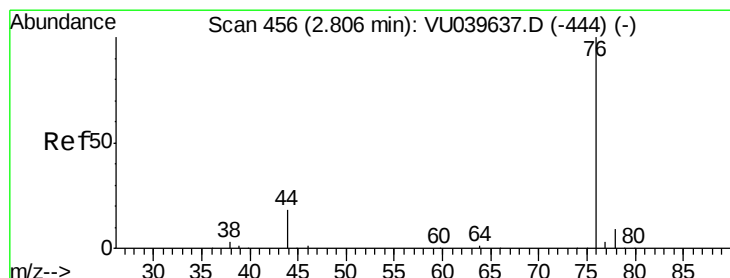
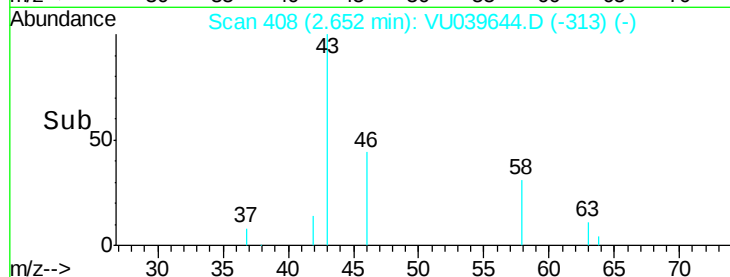
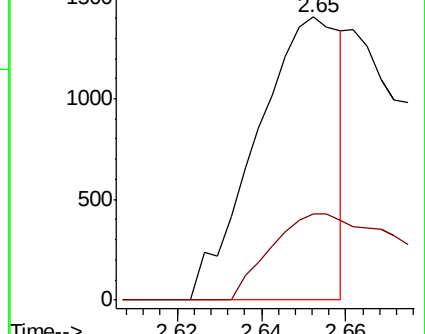
43 100

58 48.5 0.0 59.4



Abundance Ion 43.00 (42.70 to 43.70): VU039637.D (-394) (-)

Ion 58.00 (57.70 to 58.70): VU039637.D (-394) (-)



#14

Carbon disulfide

Concen: 2.043 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU039644.D

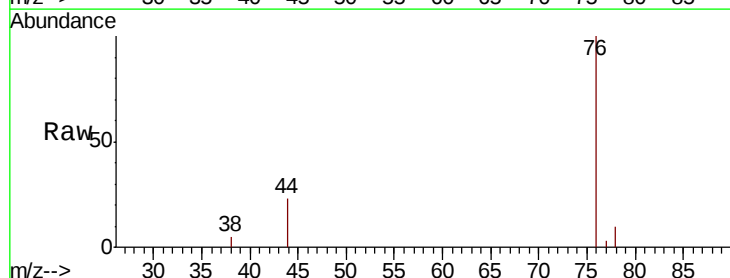
Acq: 23 Jul 2020 17:57

Tgt Ion: 76 Resp: 7379

Ion Ratio Lower Upper

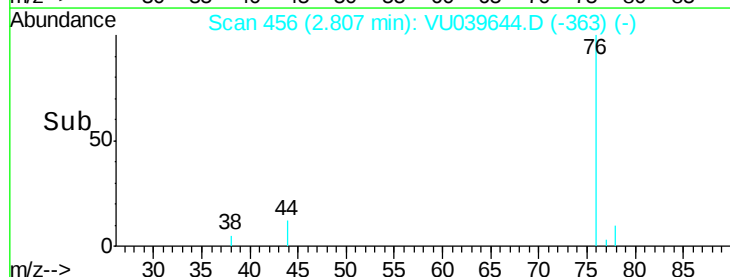
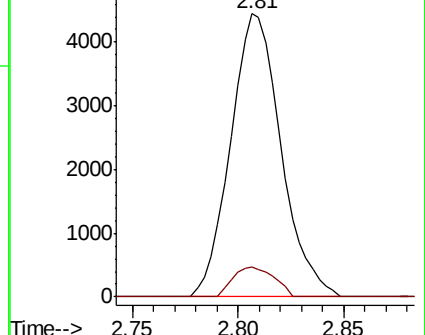
76 100

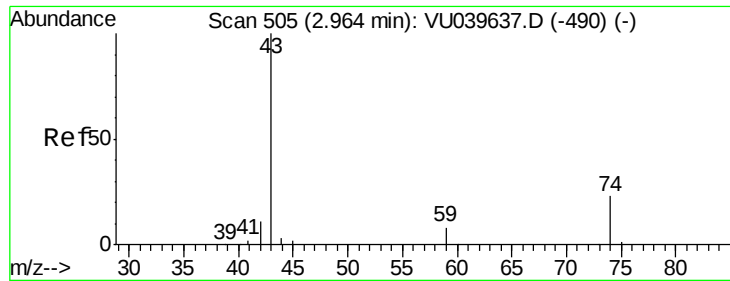
78 10.5 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU039637.D (-444) (-)

Ion 78.00 (77.70 to 78.70): VU039637.D (-444) (-)

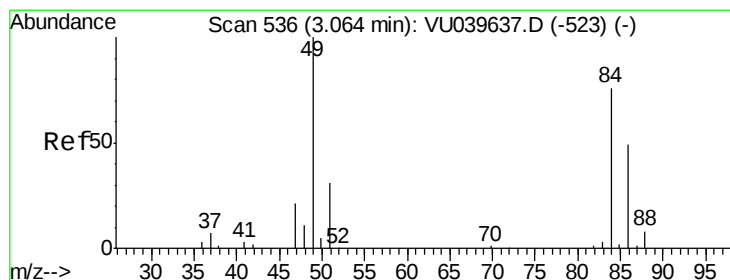
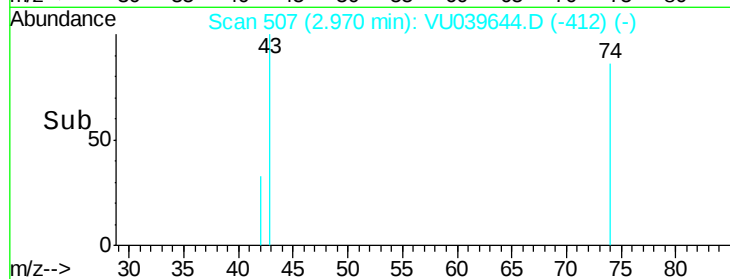
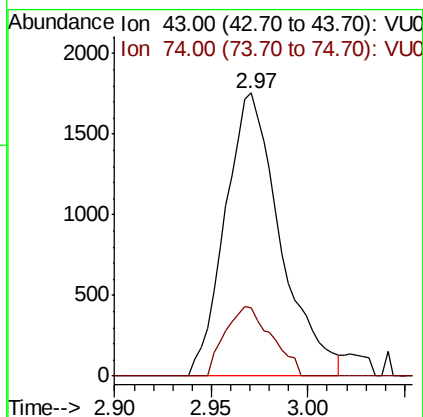
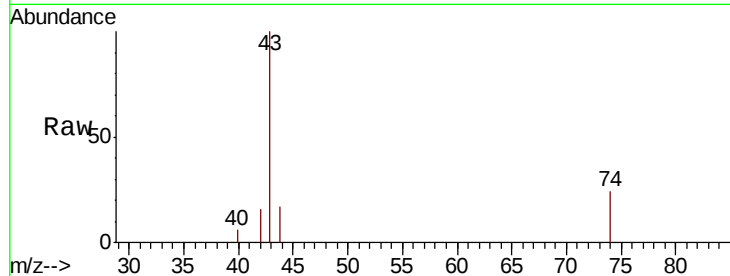




#15
Methvl Acetate
Concen: 1.963 ug/L
RT: 2.97 min Scan# 507
Delta R.T. 0.01 min
Lab File: VU039644.D
Acq: 23 Jul 2020 17:57

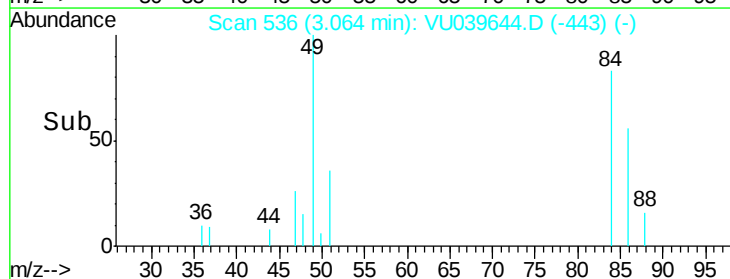
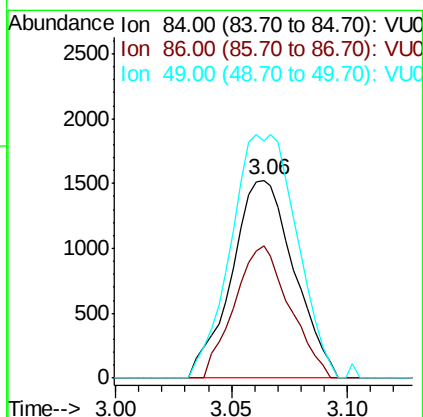
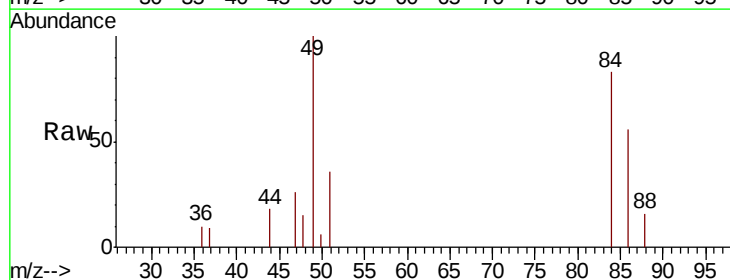
Instrument :
MSVOA_U
ClientSampleId :

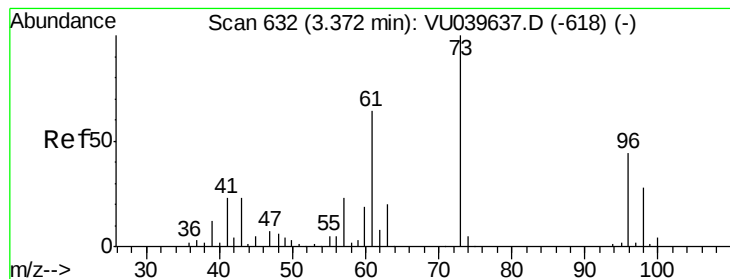
Tot Ion: 43 Resp: 3481
Ion Ratio Lower Upper
43 100
74 20.8 17.4 26.0



#16
Methylene chloride
Concen: 2.113 ug/L
RT: 3.06 min Scan# 536
Delta R.T. 0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 17:57

Tgt Ion: 84 Resp: 2857
Ion Ratio Lower Upper
84 100
86 66.6 46.2 85.8
49 119.9 97.3 180.7





#17

trans-1,2-Dichloroethene

Concen: 1.970 ug/L

RT: 3.37 min Scan# 631

Delta R.T. -0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 17:57

Instrument :
MSVOA_U
ClientSampleId :

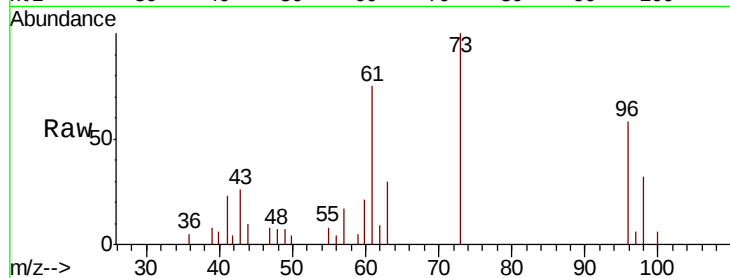
Tot Ion: 96 Resp: 2475

Ion Ratio Lower Upper

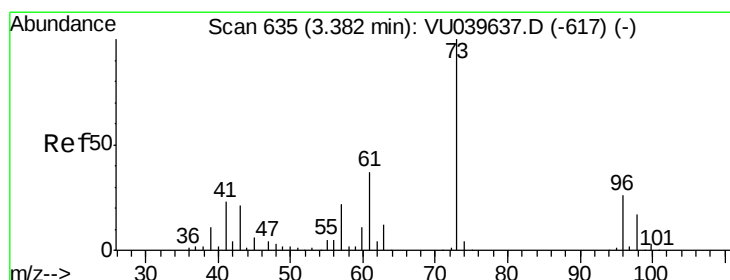
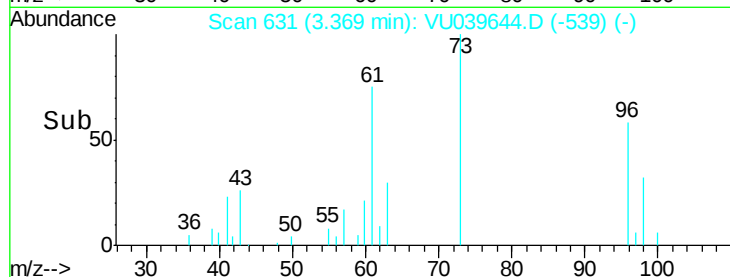
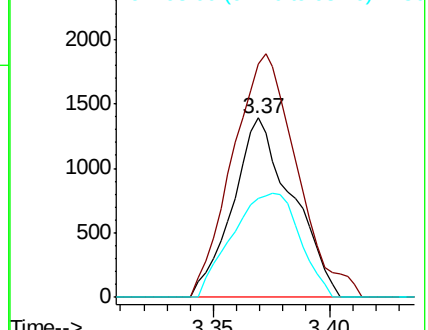
96 100

61 129.9 106.7 198.1

98 55.0 44.3 82.3



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



#18

Methyl tert-butyl Ether

Concen: 1.974 ug/L

RT: 3.38 min Scan# 635

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 17:57

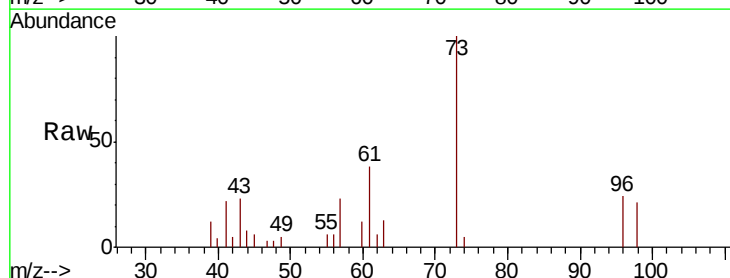
Tgt Ion: 73 Resp: 8011

Ion Ratio Lower Upper

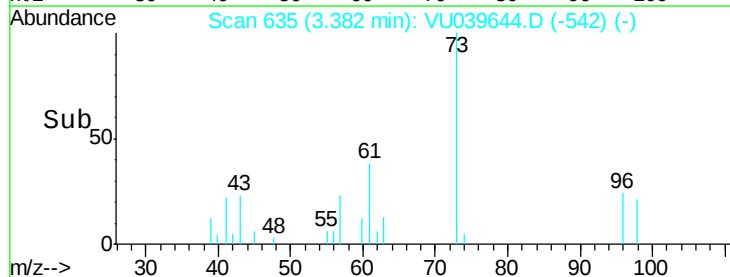
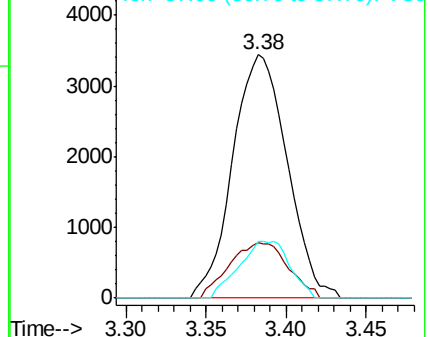
73 100

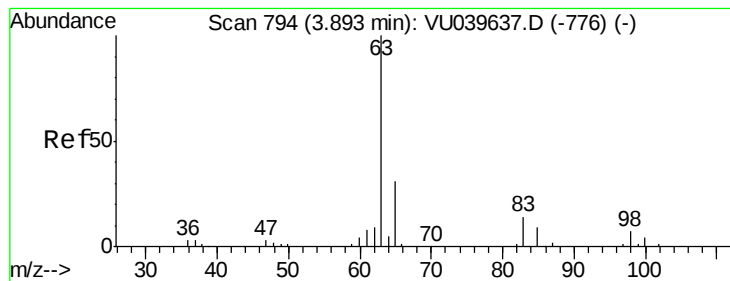
43 24.5 18.2 27.2

57 13.2 17.4 26.2#



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





#19

1,1-Dichloroethane

Concen: 1.989 ug/L

RT: 3.89 min Scan# 793

Delta R.T. -0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 17:57

Instrument :

MSVOA_U

ClientSampled :

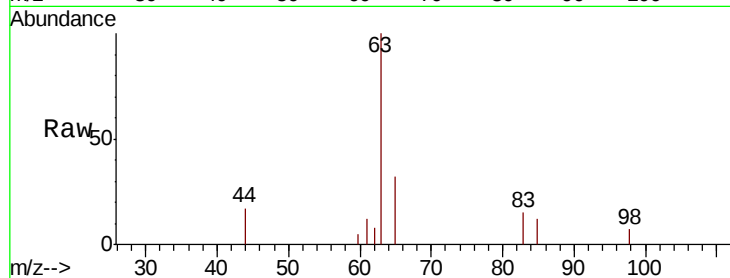
Tot Ion: 63 Resp: 4876

Ion Ratio Lower Upper

63 100

65 32.4 20.4 38.0

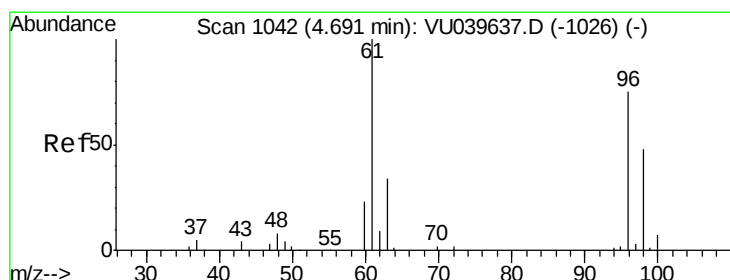
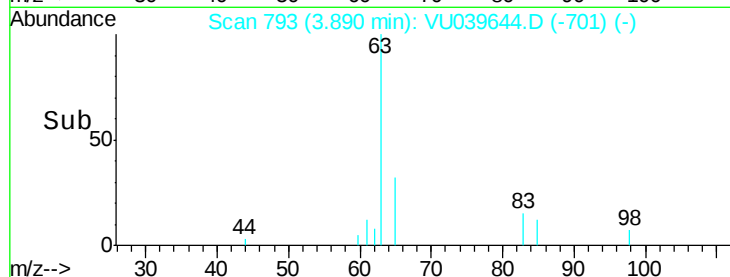
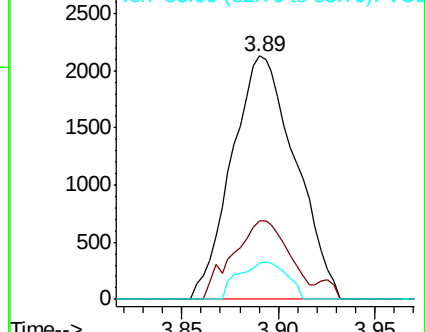
83 14.7 9.7 18.1



Abundance Ion 63.00 (62.70 to 63.70): VU039637.D (-776) (-)

Ion 65.00 (64.70 to 65.70): VU039637.D (-776) (-)

Ion 83.00 (82.70 to 83.70): VU039637.D (-776) (-)



#20

cis-1,2-Dichloroethene

Concen: 2.103 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. -0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 17:57

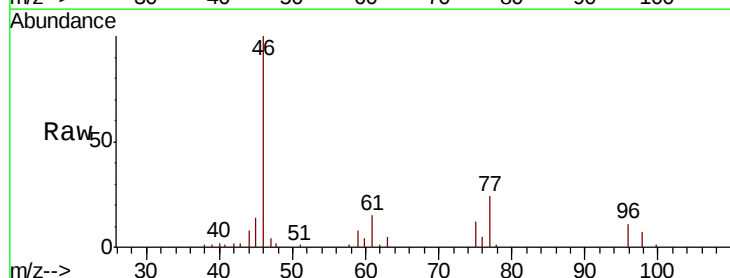
Tgt Ion: 96 Resp: 3019

Ion Ratio Lower Upper

96 100

61 135.2 94.0 174.6

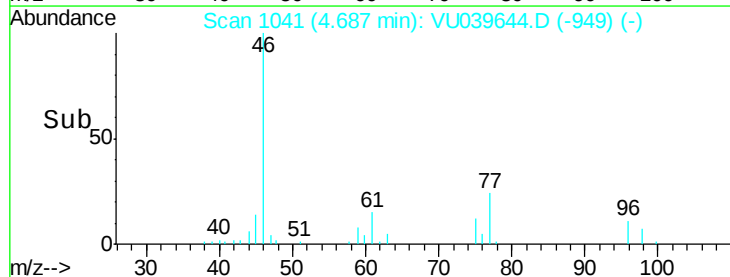
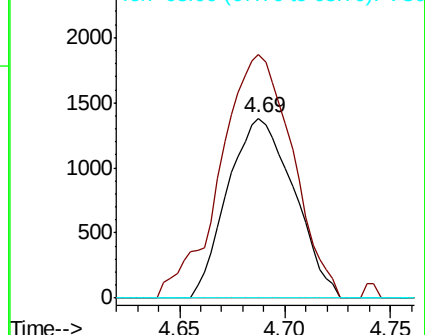
68 0.0 0.0 0.0

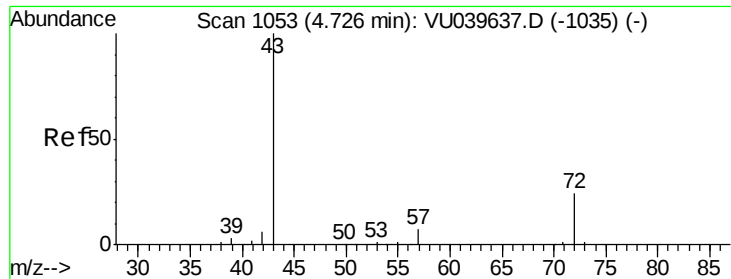


Abundance Ion 96.00 (95.70 to 96.70): VU039637.D (-1026) (-)

Ion 61.00 (60.70 to 61.70): VU039637.D (-1026) (-)

Ion 68.00 (67.70 to 68.70): VU039637.D (-1026) (-)





#22

2-Butanone

Concen: 4.129 ug/L

RT: 4.73 min Scan# 1055

Delta R.T. 0.01 min

Lab File: VU039644.D

Acq: 23 Jul 2020 17:57

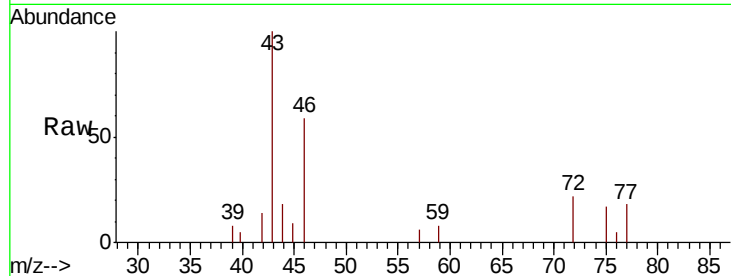
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 5759

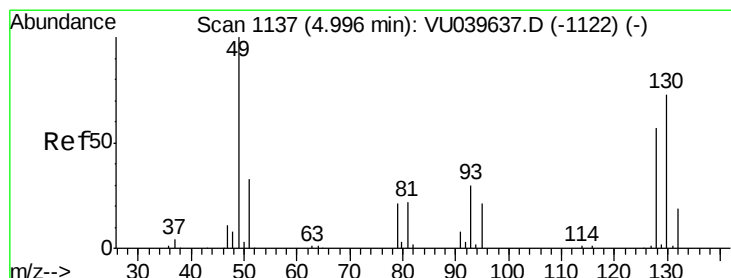
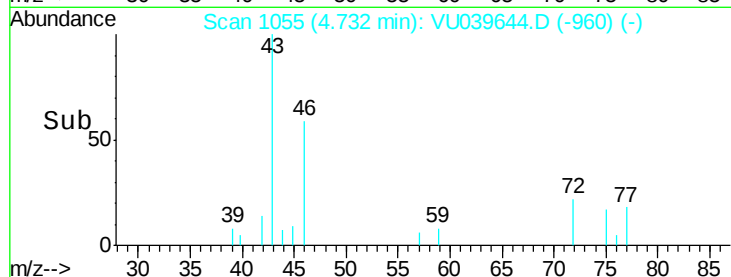
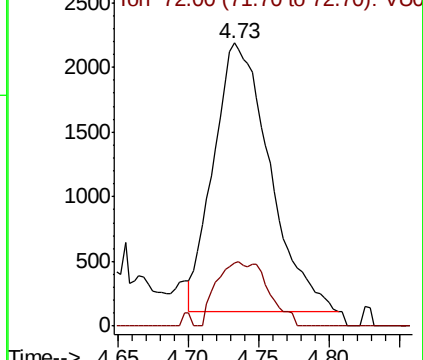
Ion Ratio Lower Upper

43 100

72 13.3 12.8 38.3



Abundance Ion 43.00 (42.70 to 43.70): VU039644.D (-960) (-)



#23

Bromochloromethane

Concen: 1.758 ug/L

RT: 5.00 min Scan# 1137

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 17:57

Tgt Ion:128 Resp: 1268

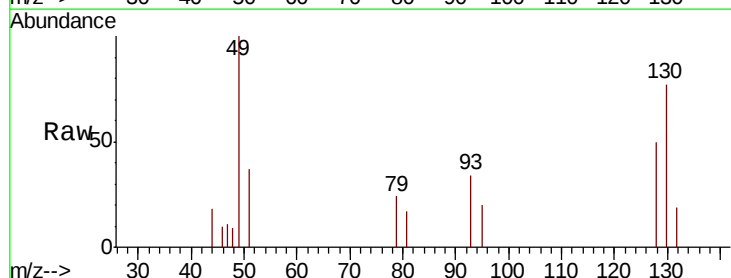
Ion Ratio Lower Upper

128 100

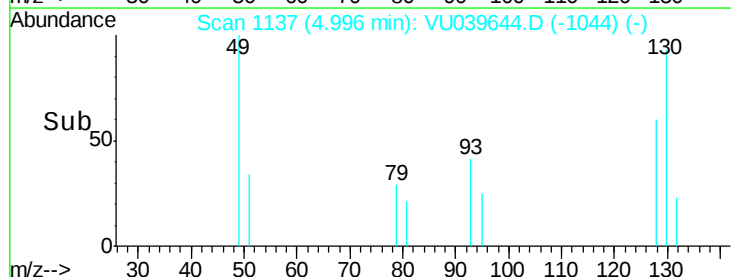
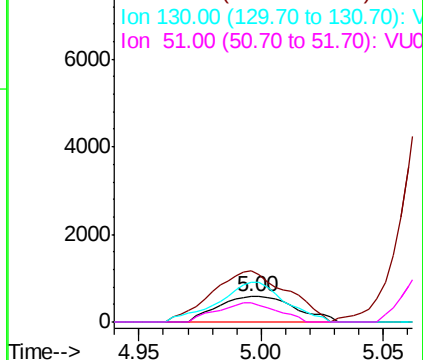
49 200.7 124.5 231.3

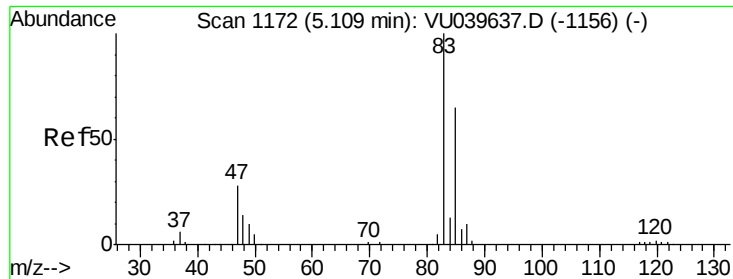
130 155.5 94.4 175.2

51 74.7 43.5 65.3#



Abundance Ion 128.00 (127.70 to 128.70): VU039644.D (-1044) (-)

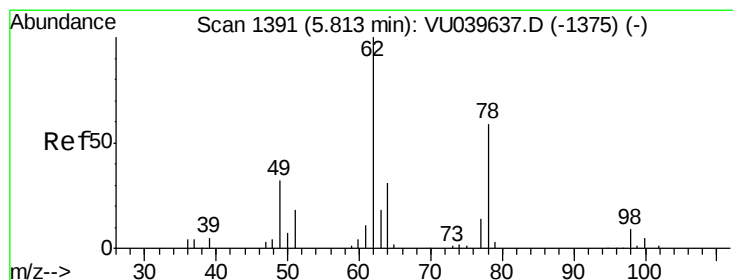
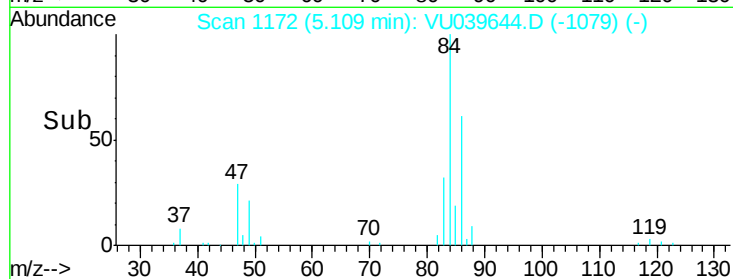
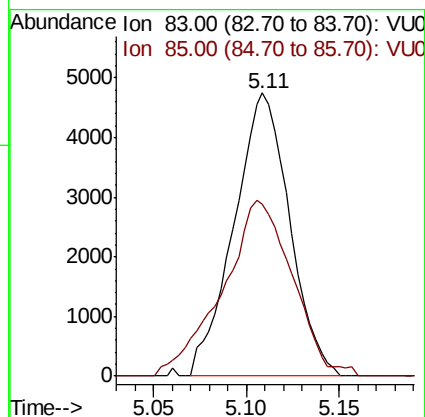
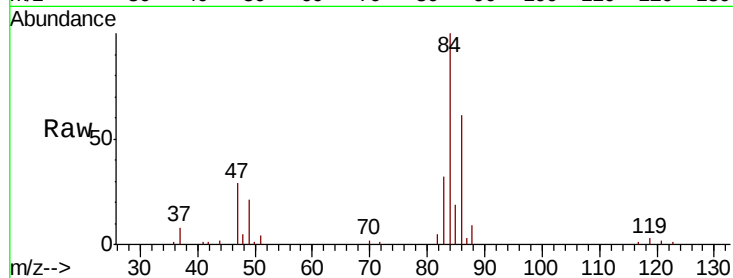




#25
Chloroform
Concen: 3.648 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 17:57

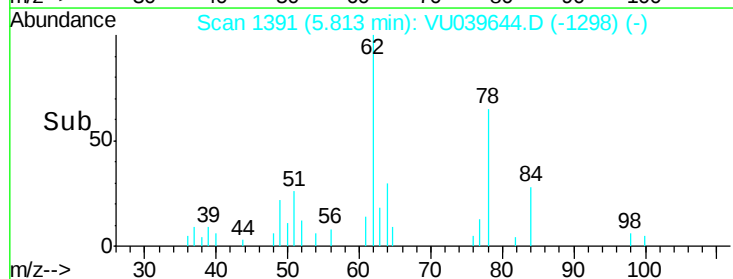
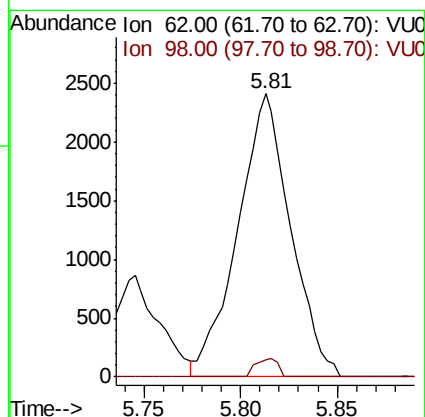
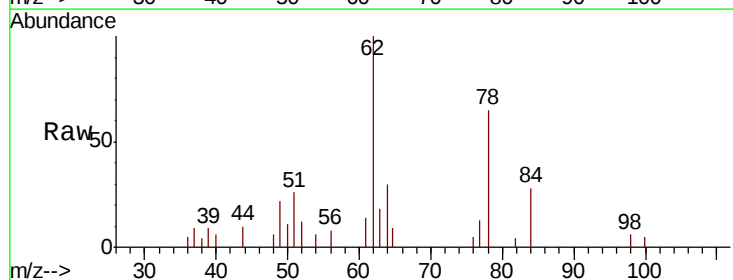
Instrument :
MSVOA_U
ClientSampled :

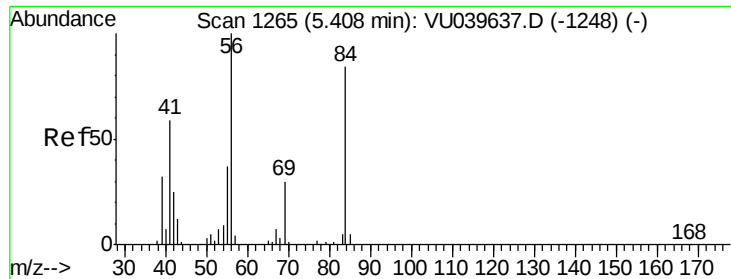
Tot Ion: 83 Resp: 9918
Ion Ratio Lower Upper
83 100
85 60.6 45.6 84.6



#27
1,2-Dichloroethane
Concen: 2.029 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 17:57

Tgt Ion: 62 Resp: 4574
Ion Ratio Lower Upper
62 100
98 6.2 6.4 9.6#

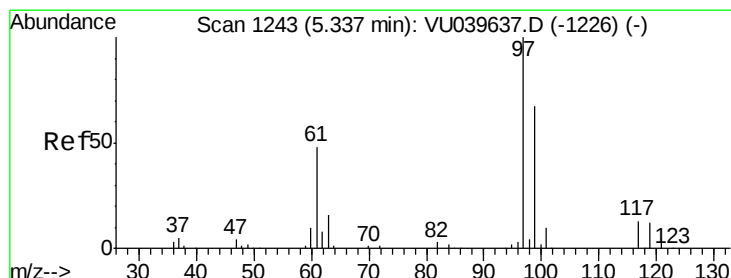
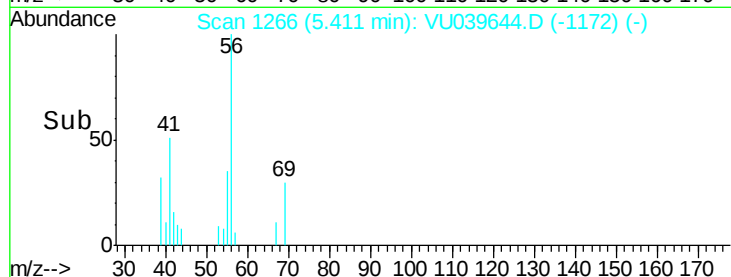
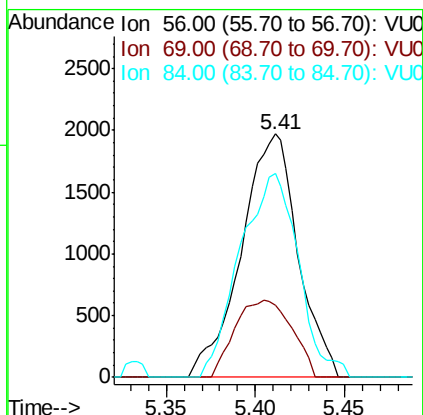
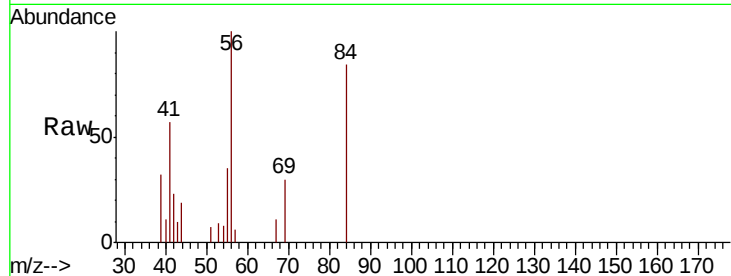




#29
Cyclohexane
Concen: 2.137 ug/L
RT: 5.41 min Scan# 1266
Delta R.T. 0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 17:57

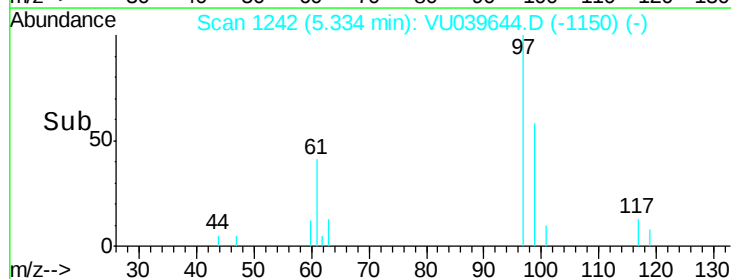
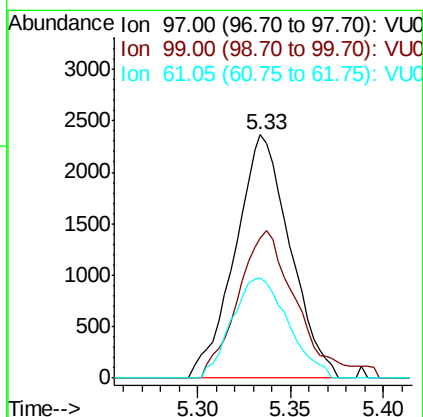
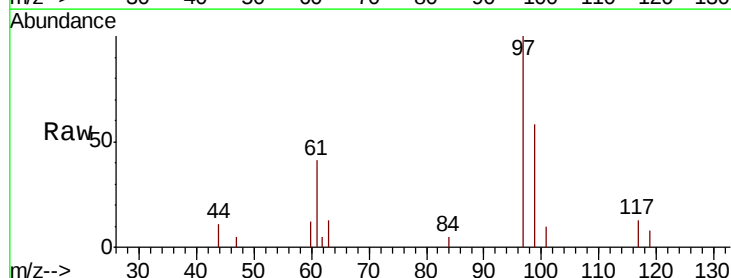
Instrument :
MSVOA_U
ClientSampled :

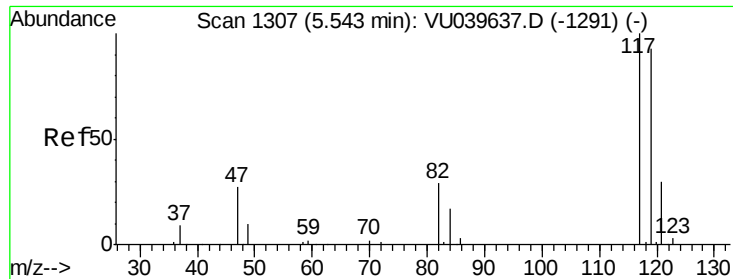
Tot Ion: 56 Resp: 4371
Ion Ratio Lower Upper
56 100
69 31.8 23.9 35.9
84 85.0 65.8 98.8



#30
1,1,1-Trichloroethane
Concen: 2.159 ug/L
RT: 5.33 min Scan# 1242
Delta R.T. -0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 17:57

Tgt Ion: 97 Resp: 4867
Ion Ratio Lower Upper
97 100
99 63.3 50.3 75.5
61 42.1 36.0 54.0





#31

Carbon tetrachloride

Concen: 2.072 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 17:57

Instrument :

MSVOA_U

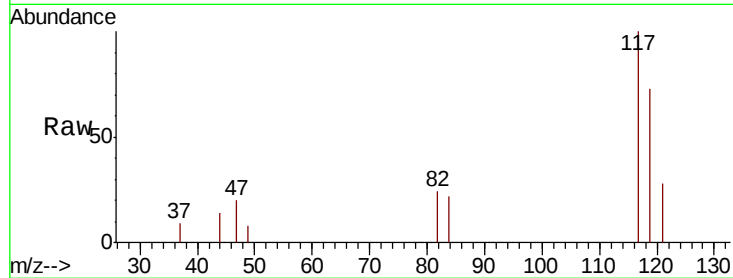
ClientSampleId :

Tot Ion:117 Resp: 3873

Ion Ratio Lower Upper

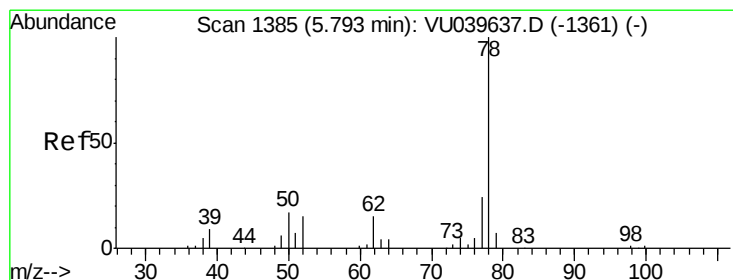
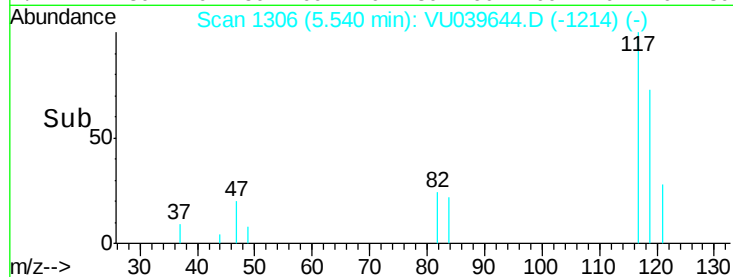
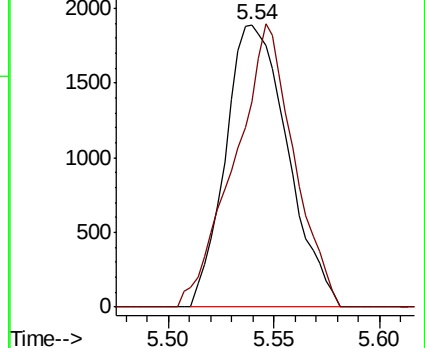
117 100

119 95.7 78.2 117.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.079 ug/L

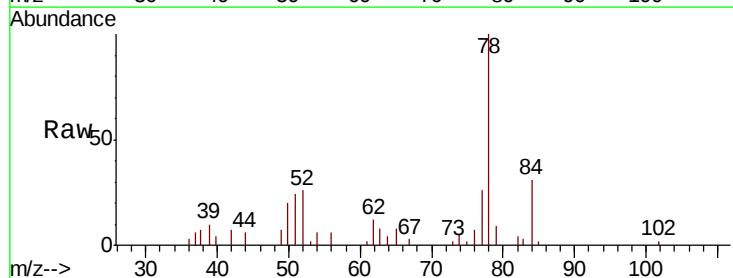
RT: 5.79 min Scan# 1384

Delta R.T. -0.00 min

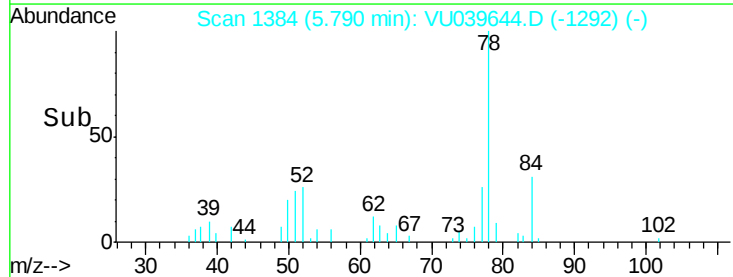
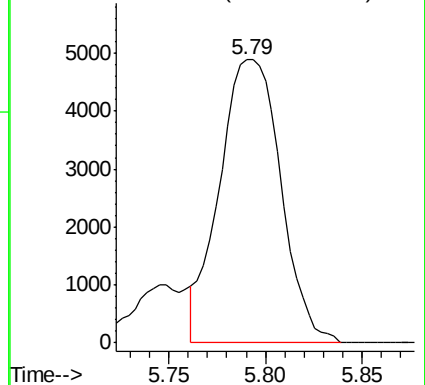
Lab File: VU039644.D

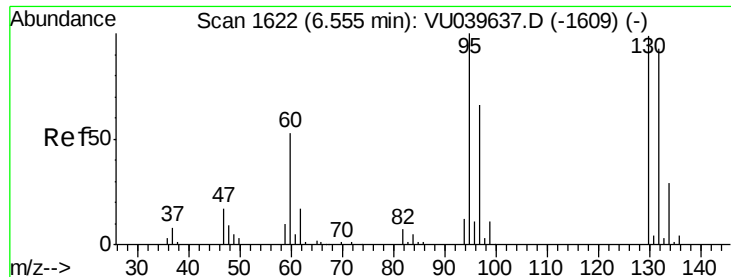
Acq: 23 Jul 2020 17:57

Tgt Ion: 78 Resp: 10790



Abundance Ion 78.00 (77.70 to 78.70): VU0

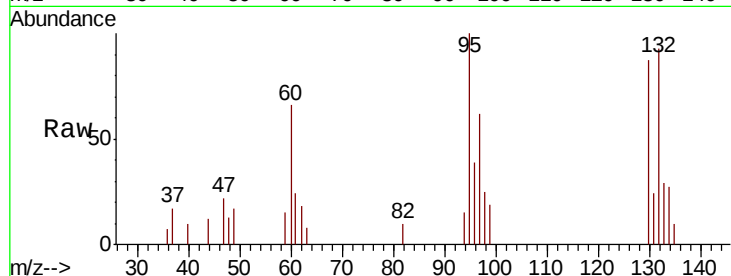




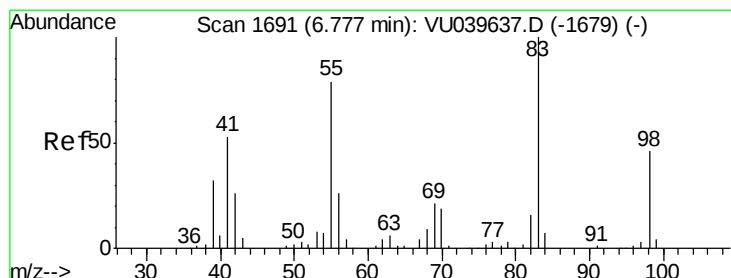
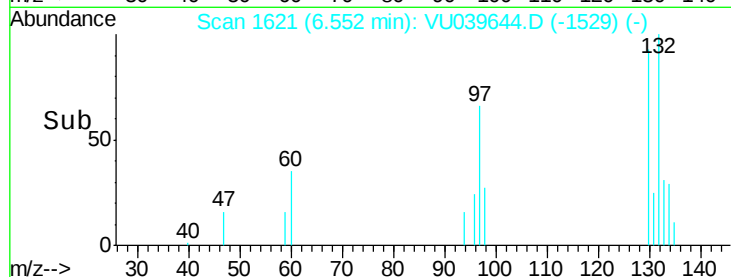
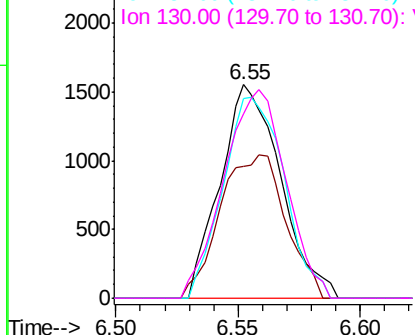
#34
 Trichloroethene
 Concen: 1.946 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 17:57

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 2671
 Ion Ratio Lower Upper
 95 100
 97 61.6 45.5 84.5
 132 93.5 65.0 120.6
 130 86.5 67.9 126.1

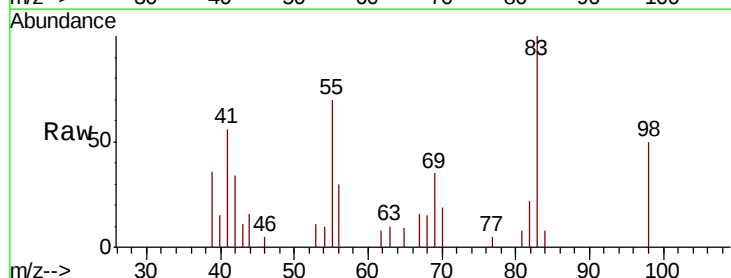


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

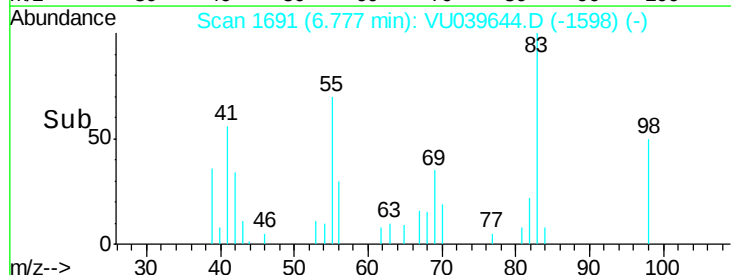
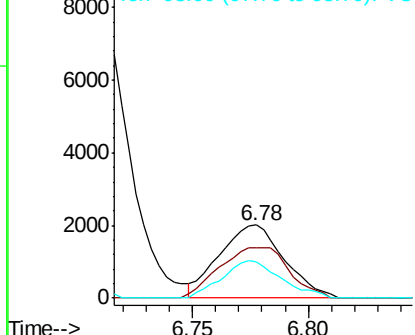


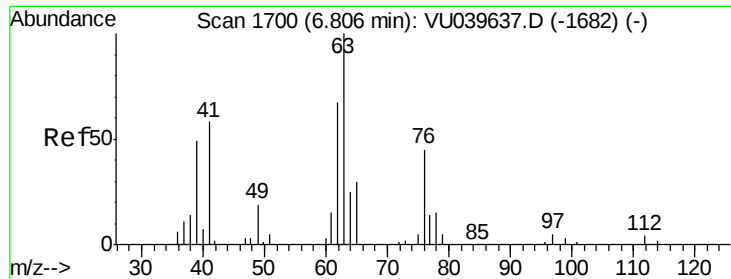
#35
 Methylcyclohexane
 Concen: 1.838 ug/L
 RT: 6.78 min Scan# 1691
 Delta R.T. 0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 17:57

Tgt Ion: 83 Resp: 3901
 Ion Ratio Lower Upper
 83 100
 55 74.5 62.9 94.3
 98 46.8 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

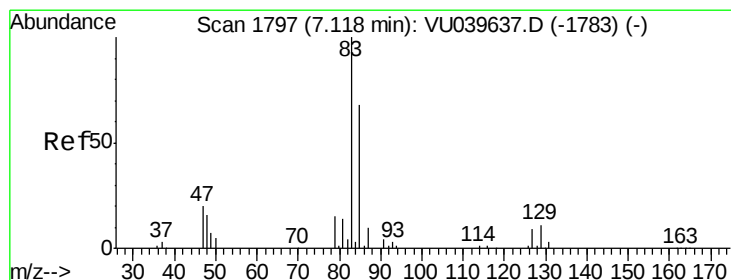
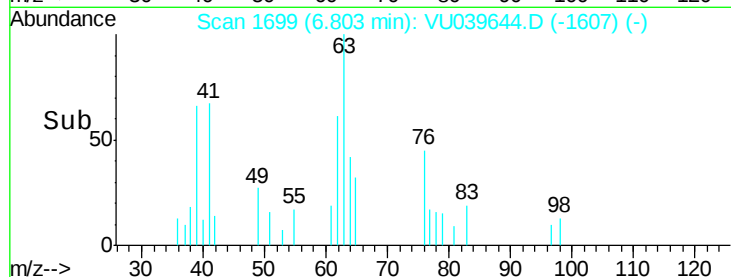
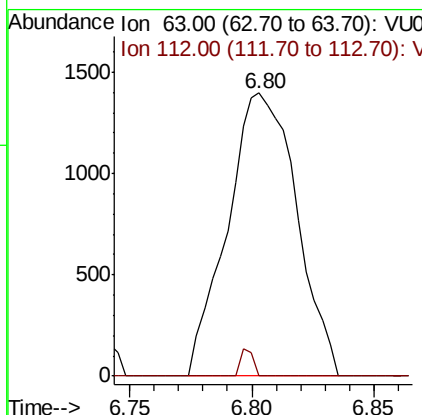
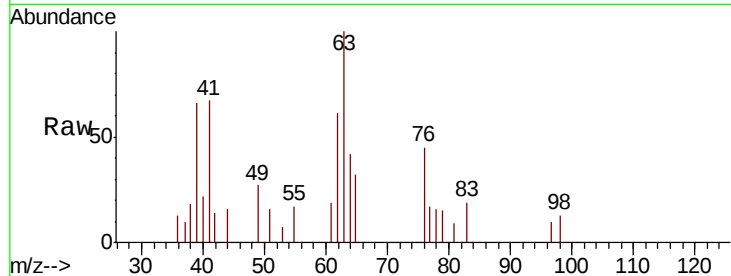




#37
 1,2-Dichloropropane
 Concen: 1.958 ug/L
 RT: 6.80 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 17:57

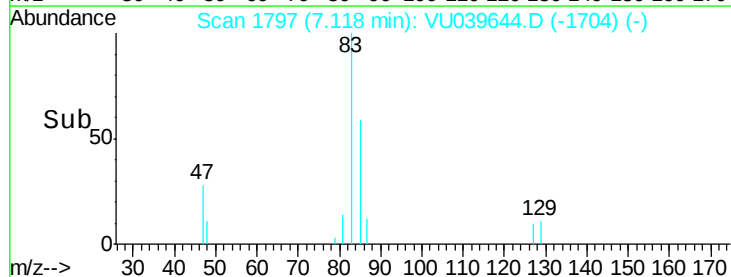
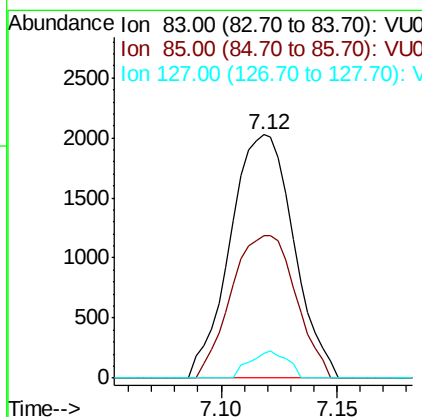
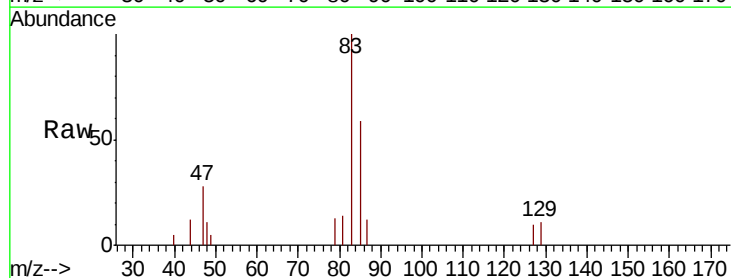
Instrument :
 MSVOA_U
 ClientSampleId :

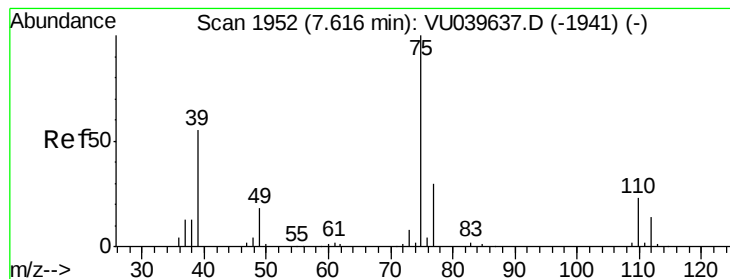
Tot Ion: 63 Resp: 2751
 Ion Ratio Lower Upper
 63 100
 112 1.8 3.0 4.4#



#38
 Bromodichloromethane
 Concen: 2.062 ug/L
 RT: 7.12 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 17:57

Tgt Ion: 83 Resp: 3848
 Ion Ratio Lower Upper
 83 100
 85 58.5 45.9 85.3
 127 10.2 7.4 11.2



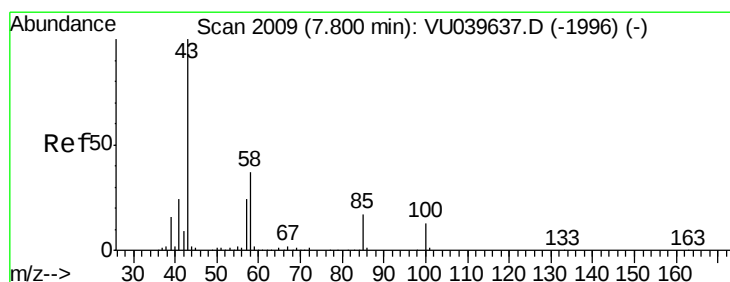
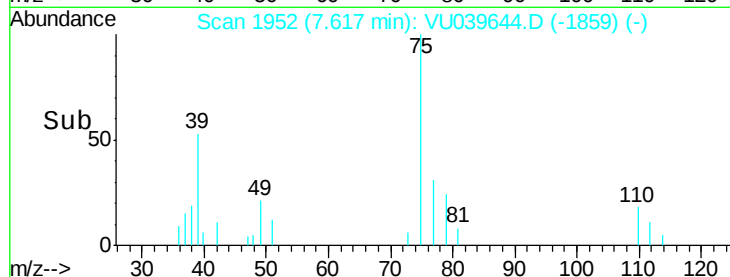
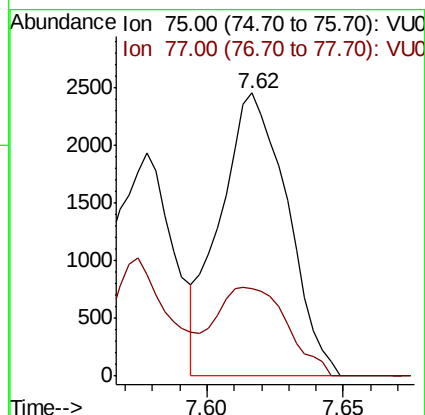
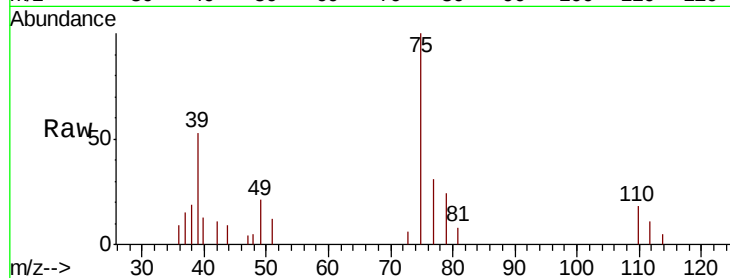


#39

cis-1,3-Dichloropropene
Concen: 1.997 ug/L
RT: 7.62 min Scan# 1952
Delta R.T. 0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 17:57

Instrument :
MSVOA_U
ClientSampled :

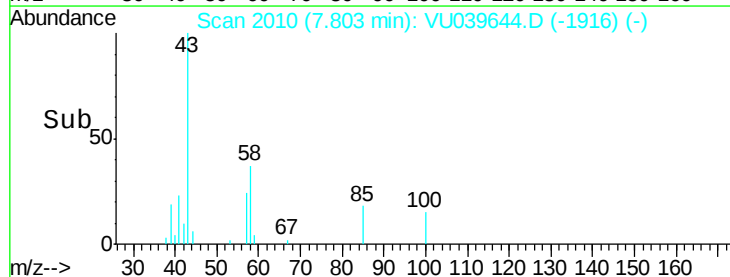
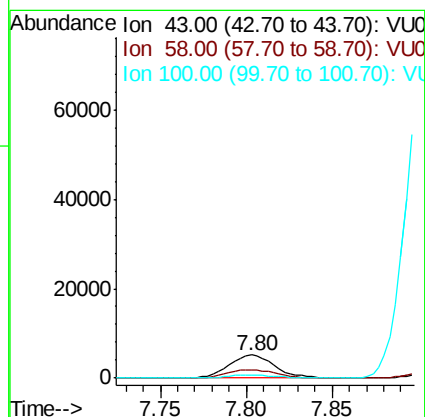
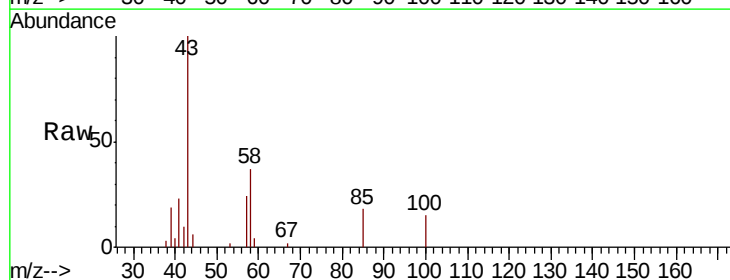
Tot Ion: 75 Resp: 4193
Ion Ratio Lower Upper
75 100
77 30.9 21.8 40.6

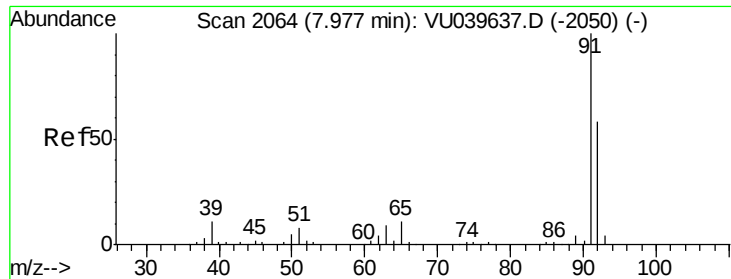


#40

4-Methyl-2-pentanone
Concen: 3.962 ug/L
RT: 7.80 min Scan# 2010
Delta R.T. 0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 17:57

Tgt Ion: 43 Resp: 9697
Ion Ratio Lower Upper
43 100
58 38.5 29.1 43.7
100 13.6 10.6 16.0





#42

Toluene

Concen: 2.033 ug/L

RT: 7.98 min Scan# 2065

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 17:57

Instrument :

MSVOA_U

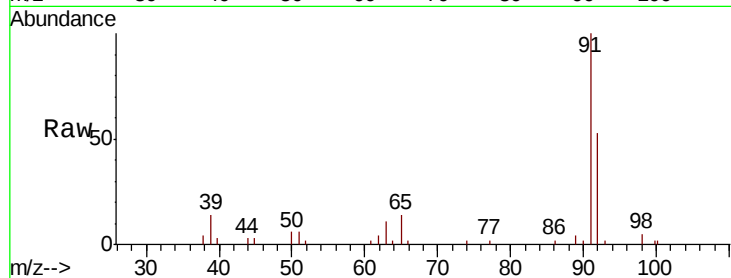
ClientSampleId :

Tot Ion: 91 Resp: 11603

Ion Ratio Lower Upper

91 100

92 53.0 40.1 74.5



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

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

7.98

6000

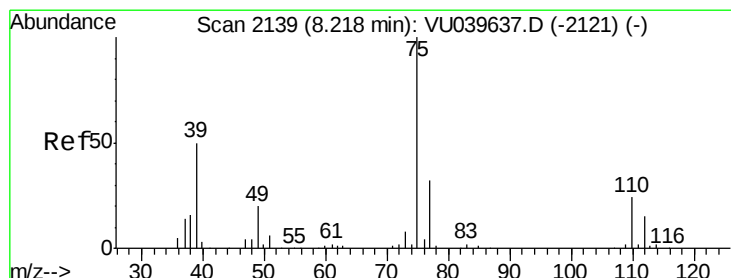
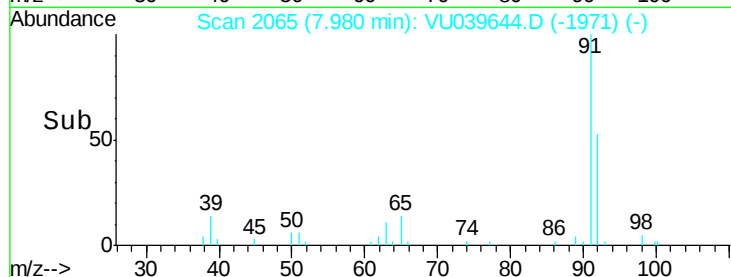
4000

2000

0

7.95 8.00

Time-->



#44

trans-1,3-Dichloropropene

Concen: 1.858 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. 0.00 min

Lab File: VU039644.D

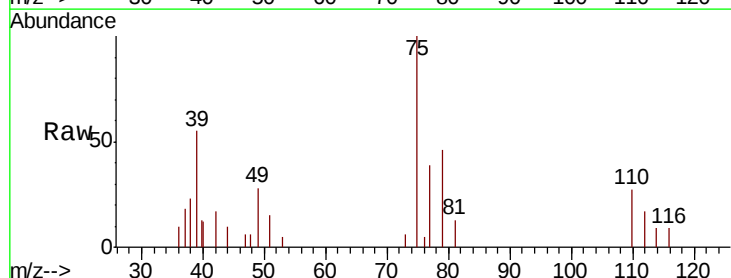
Acq: 23 Jul 2020 17:57

Tgt Ion: 75 Resp: 3821

Ion Ratio Lower Upper

75 100

77 39.3 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) (-)

8.22

2500

2000

1500

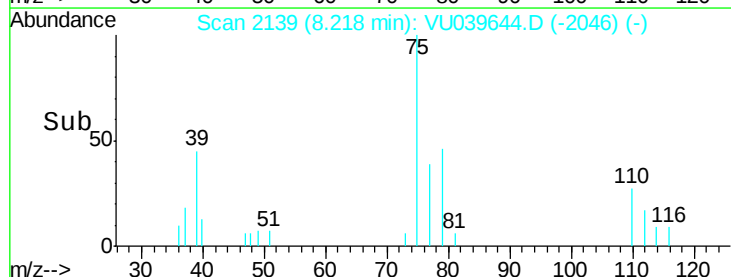
1000

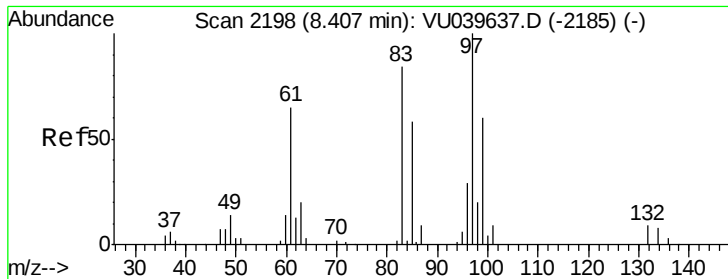
500

0

8.20 8.25

Time-->

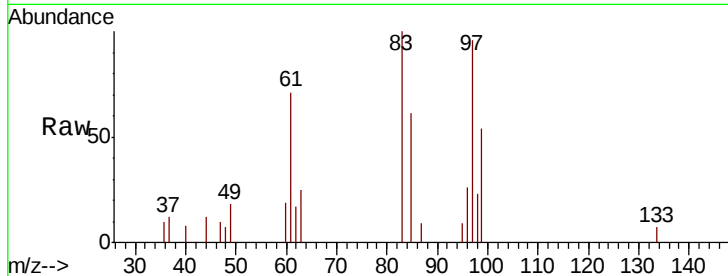




#45
1,1,2-Trichloroethane
Concen: 1.837 ug/L
RT: 8.40 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 17:57

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:	97	Resp:	2461
Ion	Ratio	Lower	Upper
97	100		
99	55.7	45.1	83.9
83	103.7	62.7	116.5
85	63.4	41.0	76.2



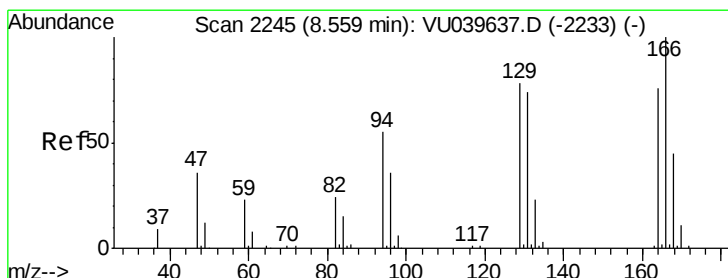
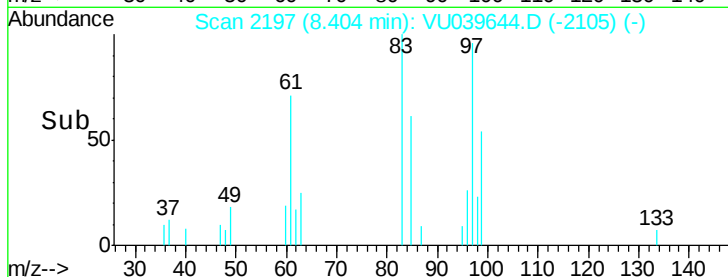
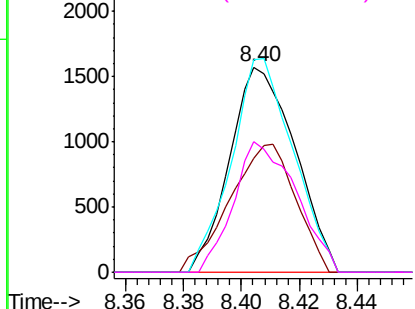
Abundance

Ion 97.00 (96.70 to 97.70): VU039644.D (-2198) (-)

Ion 99.00 (98.70 to 99.70): VU039644.D (-2198) (-)

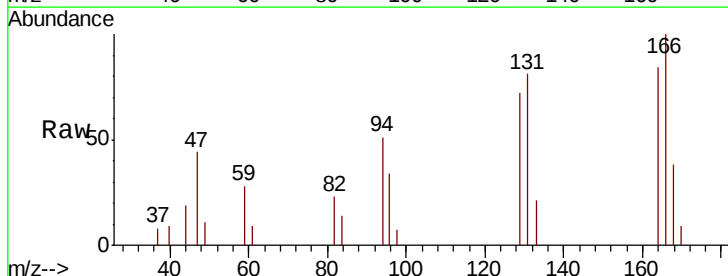
Ion 83.00 (82.70 to 83.70): VU039644.D (-2198) (-)

Ion 85.00 (84.70 to 85.70): VU039644.D (-2198) (-)



#46
Tetrachloroethene
Concen: 1.980 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. 0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 17:57

Tgt Ion:	164	Resp:	2056
Ion	Ratio	Lower	Upper
164	100		
129	85.1	71.1	132.1
131	95.9	70.3	130.5
166	118.7	87.8	163.0



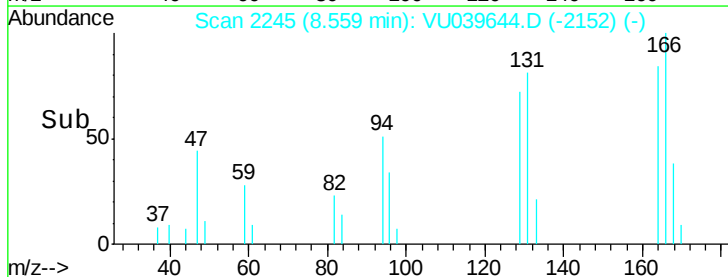
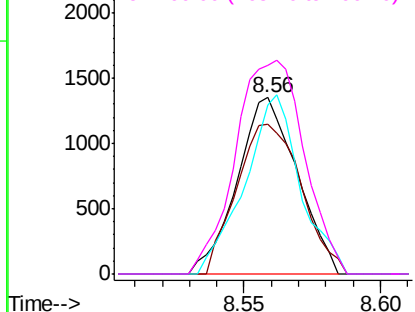
Abundance

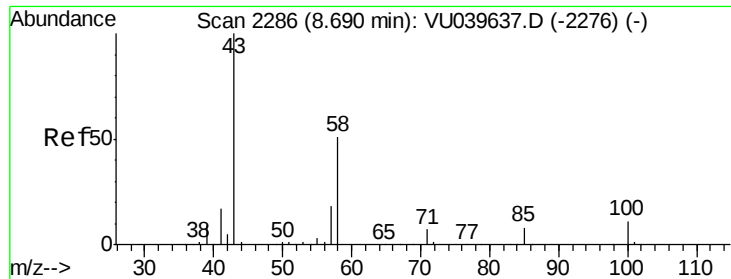
Ion 164.00 (163.70 to 164.70): VU039644.D (-2245) (-)

Ion 129.00 (128.70 to 129.70): VU039644.D (-2245) (-)

Ion 131.00 (130.70 to 131.70): VU039644.D (-2245) (-)

Ion 166.00 (165.70 to 166.70): VU039644.D (-2245) (-)

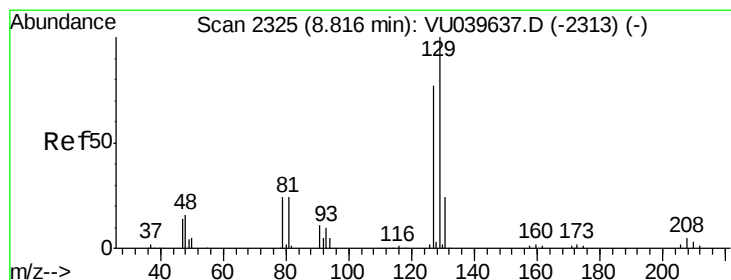
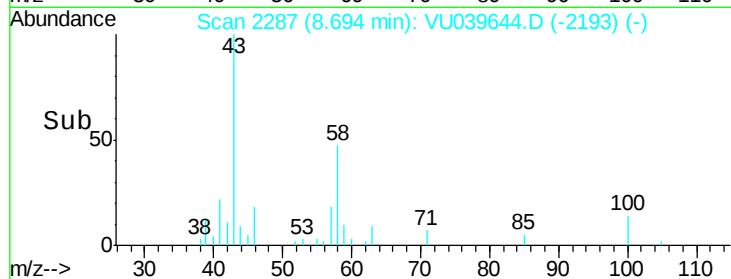
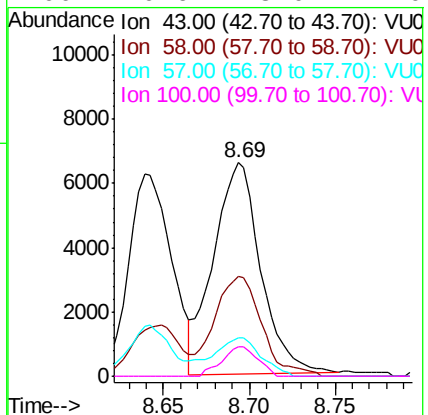
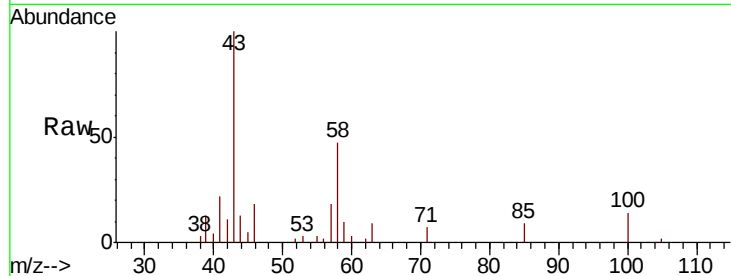




#48
2-Hexanone
Concen: 6.300 ug/L
RT: 8.69 min Scan# 2287
Delta R.T. 0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 17:57

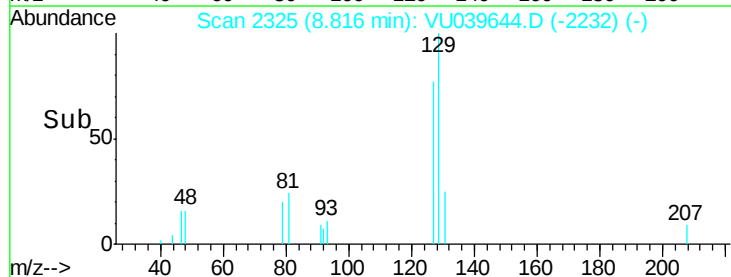
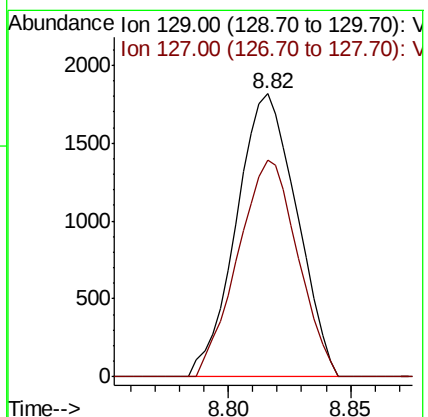
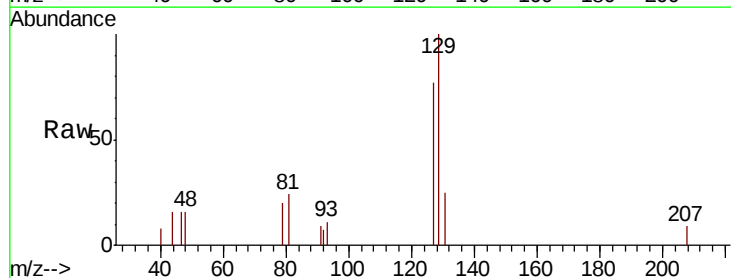
Instrument :
MSVOA_U
ClientSampleId :

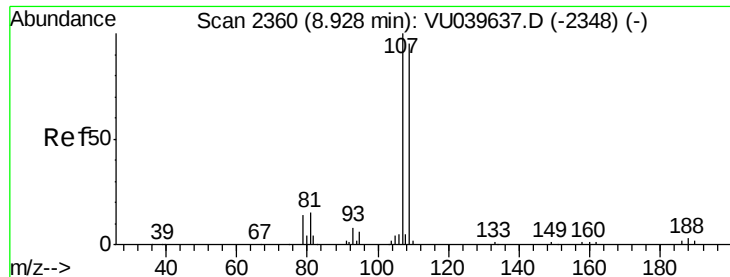
Tot Ion: 43 Resp: 12564
Ion Ratio Lower Upper
43 100
58 48.0 40.6 61.0
57 16.4 14.5 21.7
100 10.6 8.0 12.0



#49
Dibromochloromethane
Concen: 2.062 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 17:57

Tgt Ion: 129 Resp: 3119
Ion Ratio Lower Upper
129 100
127 76.6 54.3 100.9

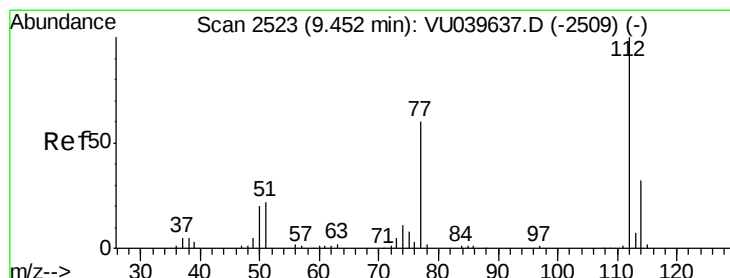
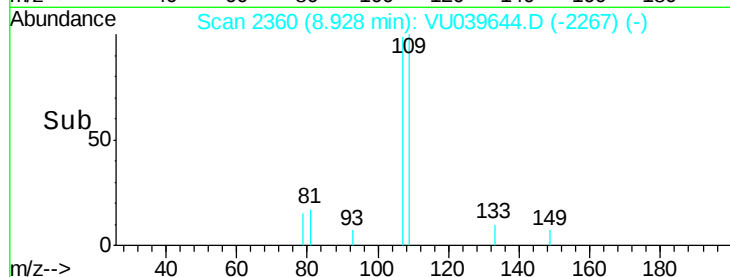
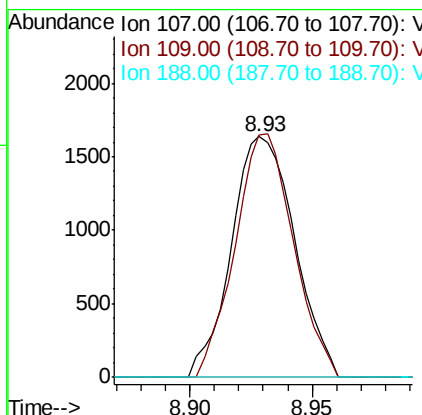
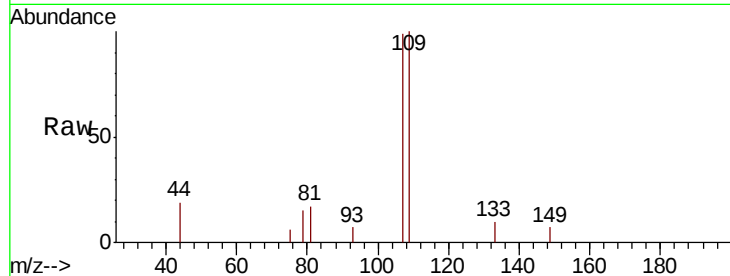




#50
 1,2-Dibromoethane
 Concen: 1.973 ug/L
 RT: 8.93 min Scan# 2360
 Delta R.T. 0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 17:57

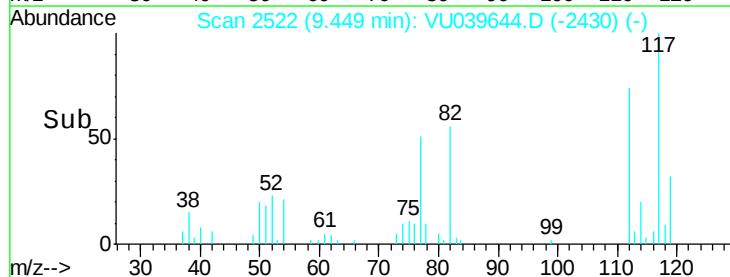
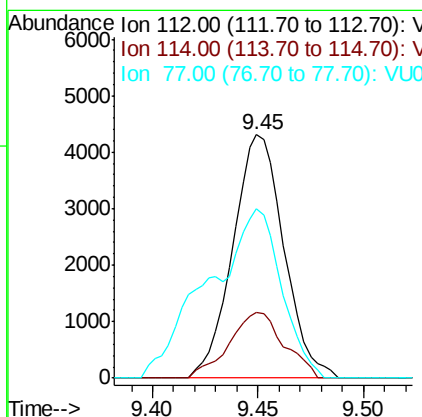
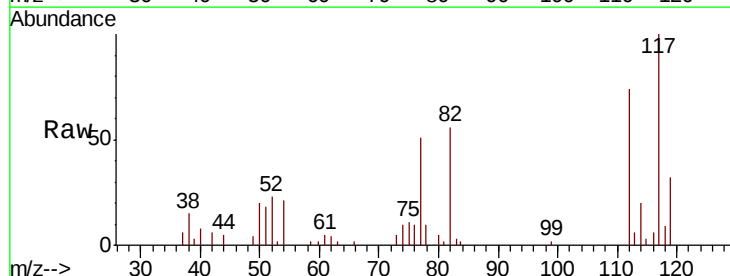
Instrument :
 MSVOA_U
 ClientSampleId :

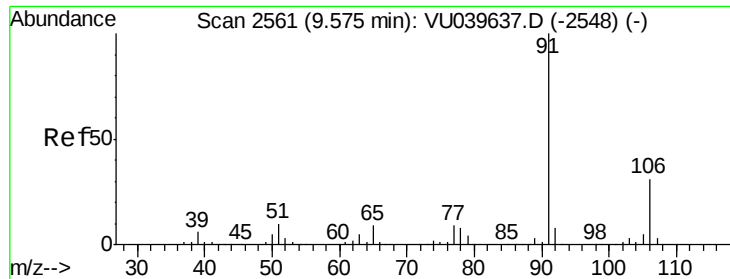
Tot Ion:107 Resp: 2941
 Ion Ratio Lower Upper
 107 100
 109 100.6 66.8 124.2
 188 0.0 3.0 4.4#



#51
 Chlorobenzene
 Concen: 1.988 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. -0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 17:57

Tgt Ion:112 Resp: 7240
 Ion Ratio Lower Upper
 112 100
 114 26.8 22.9 42.5
 77 69.4 49.4 74.0

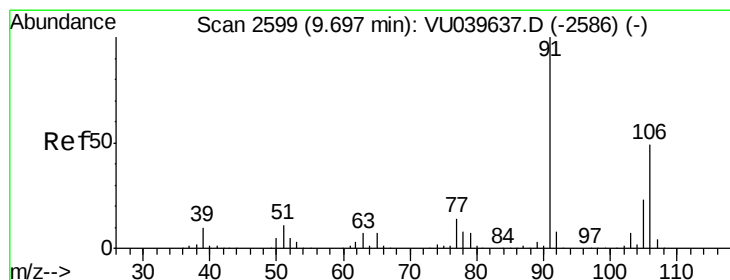
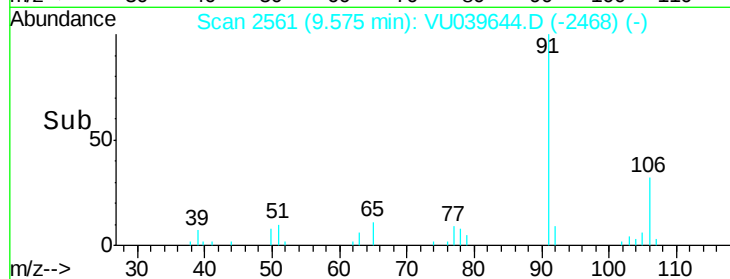
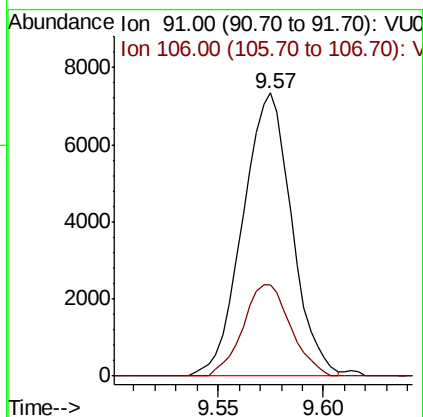
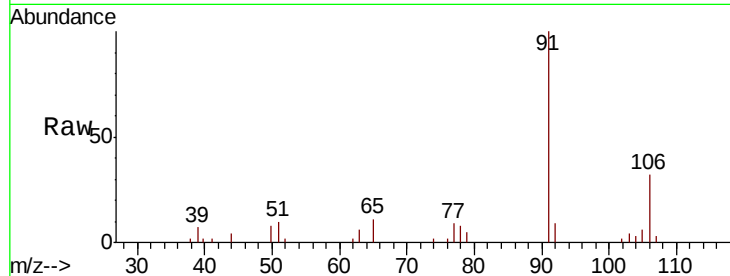




#52
Ethylbenzene
Concen: 1.881 ug/L
RT: 9.57 min Scan# 2561
Delta R.T. 0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 17:57

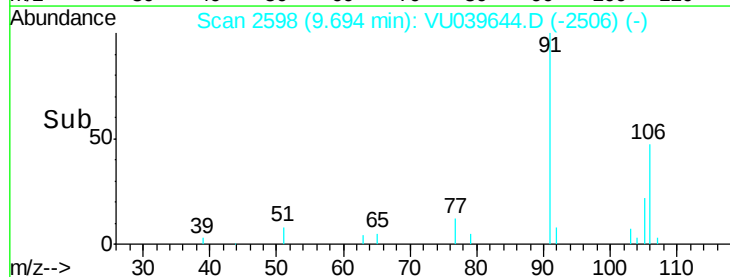
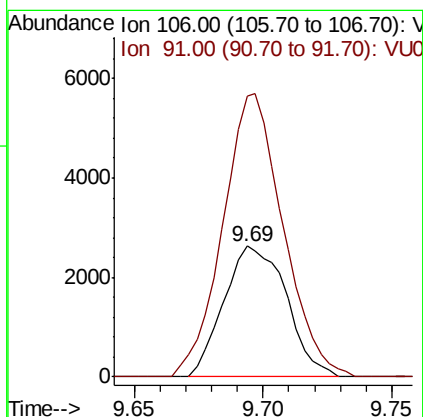
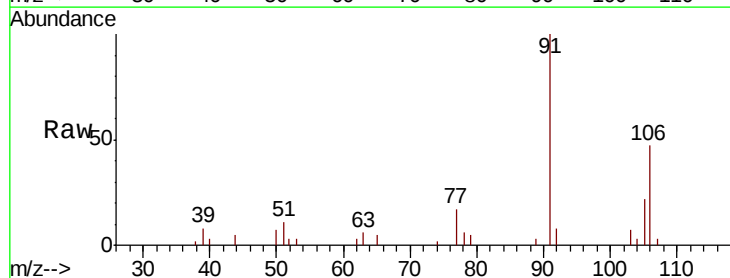
Instrument :
MSVOA_U
ClientSampled :

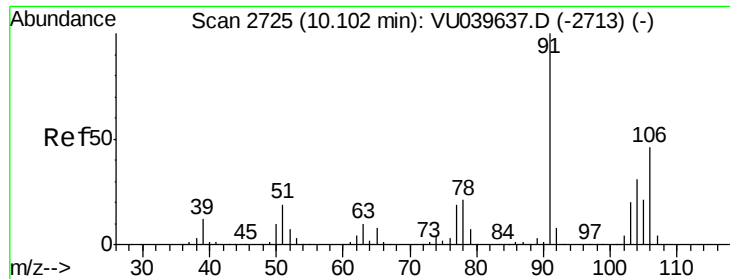
Tot Ion: 91 Resp: 11864
Ion Ratio Lower Upper
91 100
106 32.3 21.1 39.1



#53
m,p-Xylene
Concen: 1.871 ug/L
RT: 9.69 min Scan# 2598
Delta R.T. -0.00 min
Lab File: VU039644.D
Acq: 23 Jul 2020 17:57

Tgt Ion: 106 Resp: 4447
Ion Ratio Lower Upper
106 100
91 214.9 149.7 277.9





#54

o-xylene

Concen: 1.916 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 17:57

Instrument :

MSVOA_U

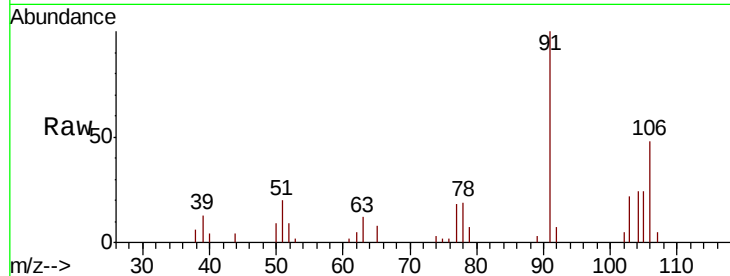
ClientSampled :

Tot Ion:106 Resp: 4371

Ion Ratio Lower Upper

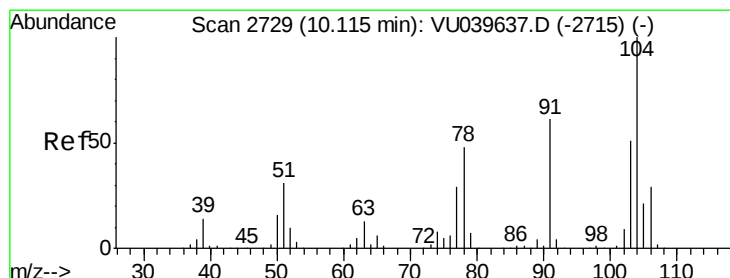
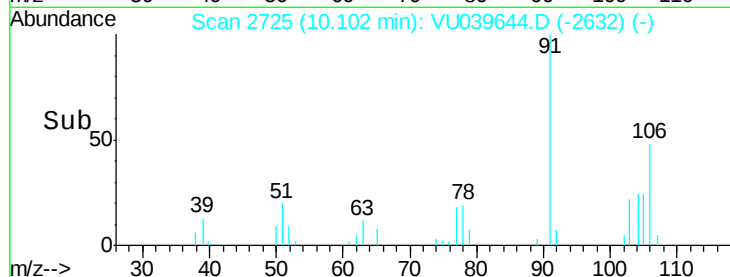
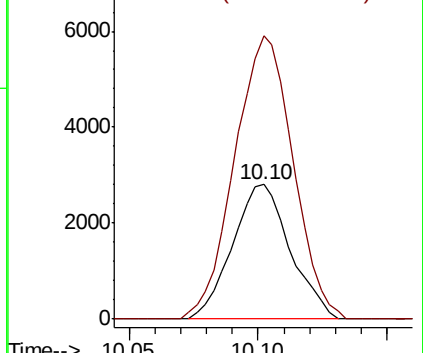
106 100

91 209.9 155.1 288.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.679 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. 0.00 min

Lab File: VU039644.D

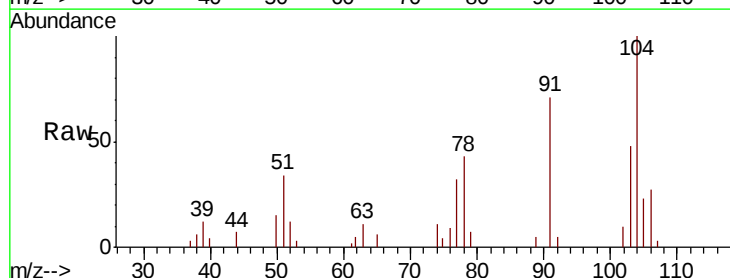
Acq: 23 Jul 2020 17:57

Tgt Ion:104 Resp: 6628

Ion Ratio Lower Upper

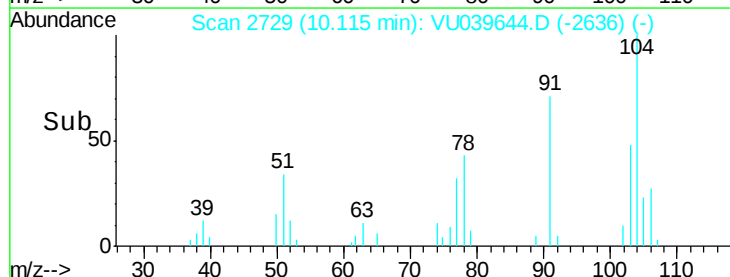
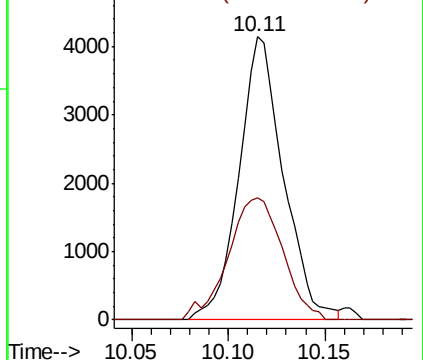
104 100

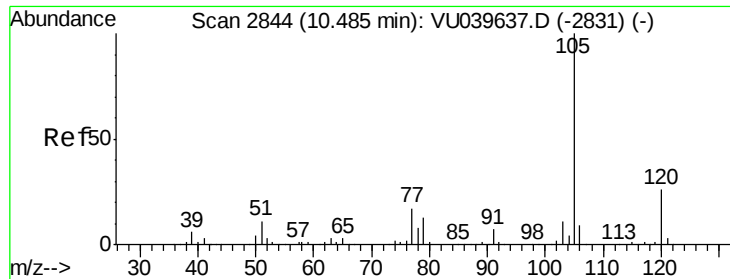
78 43.2 34.3 63.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 1.868 ug/L

RT: 10.49 min Scan# 2845

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 17:57

Instrument :

MSVOA_U

ClientSampled :

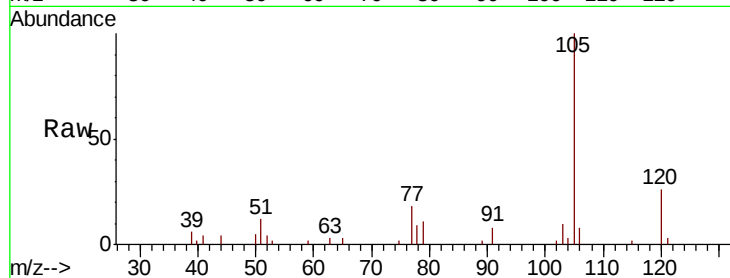
Tot Ion:105 Resp: 11569

Ion Ratio Lower Upper

105 100

120 25.4 20.6 31.0

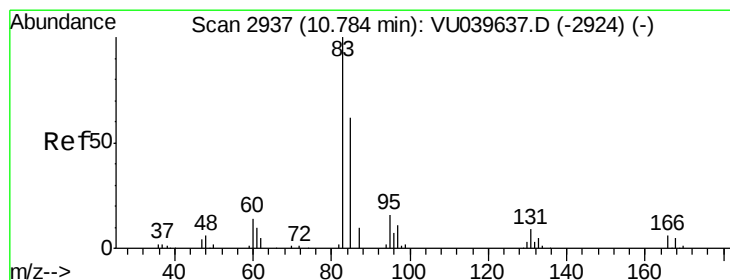
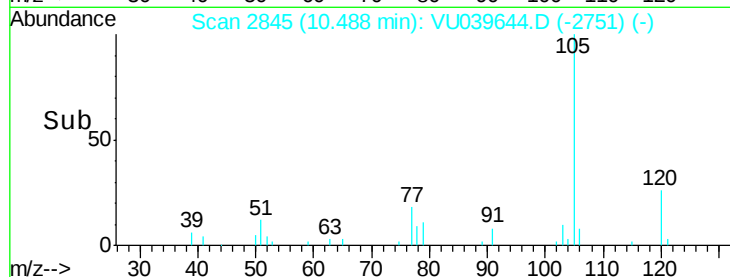
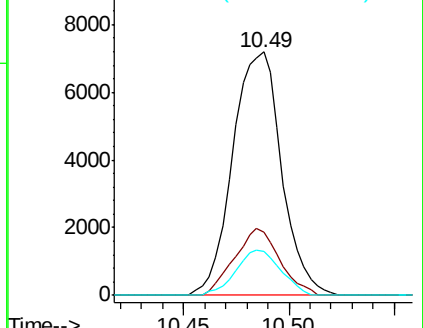
77 17.0 13.4 20.2



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: 2.212 ug/L

RT: 10.78 min Scan# 2937

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 17:57

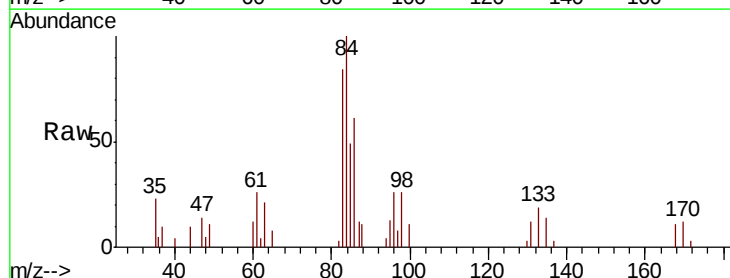
Tgt Ion: 83 Resp: 5402

Ion Ratio Lower Upper

83 100

85 57.9 46.4 86.2

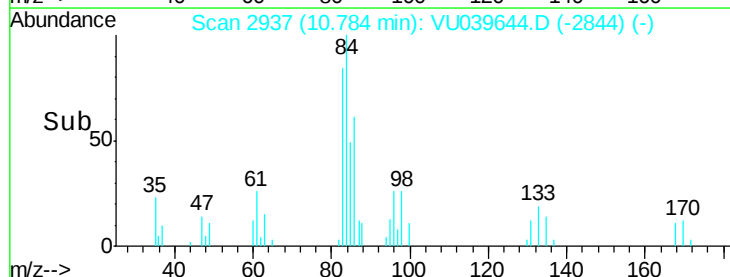
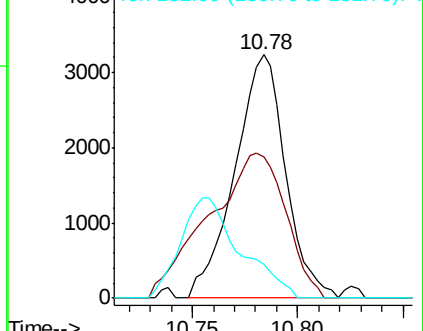
131 13.9 7.8 11.6#

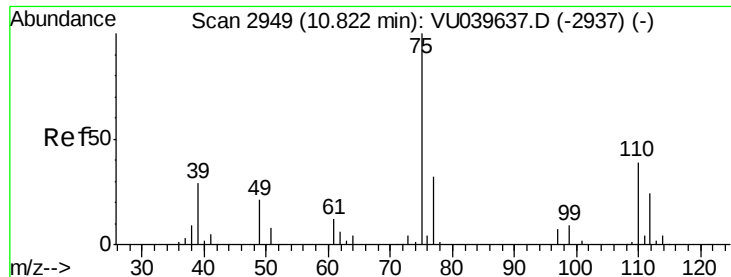


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V

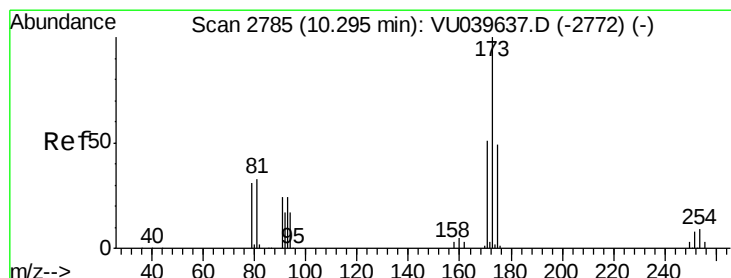
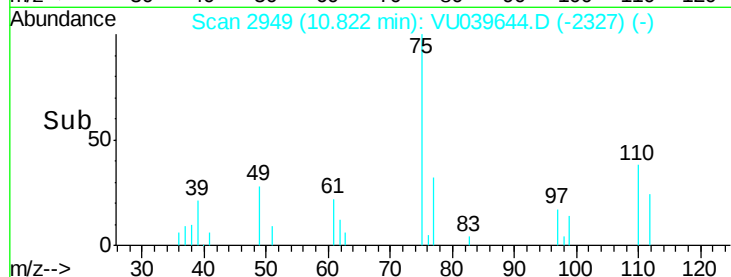
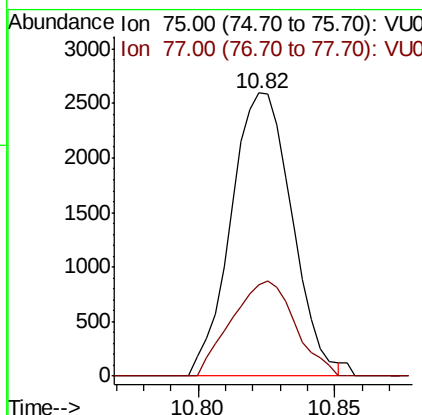
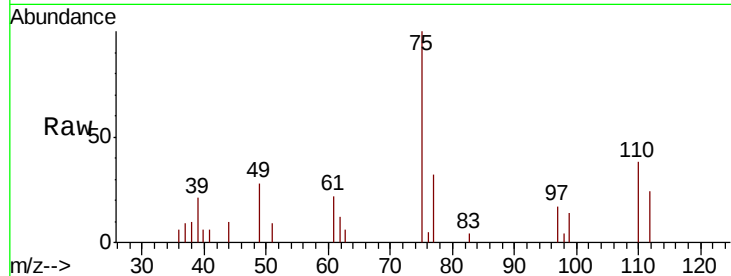




#59
 1,2,3-Trichloropropane
 Concen: 1.974 ug/L
 RT: 10.82 min Scan# 2949
 Delta R.T. 0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 17:57

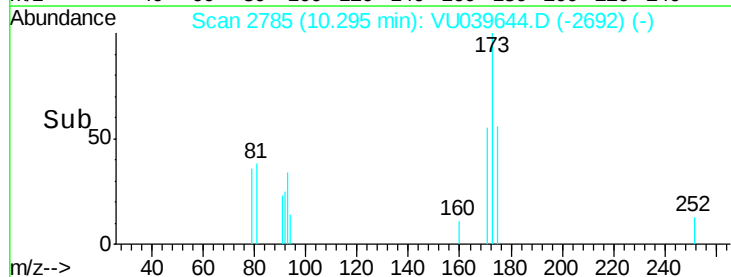
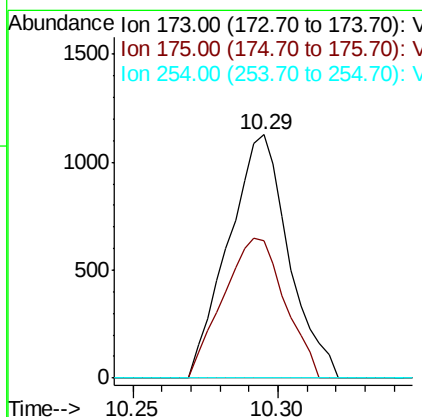
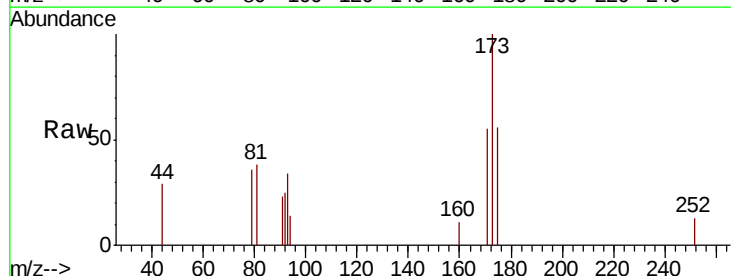
Instrument :
 MSVOA_U
 ClientSampleId :

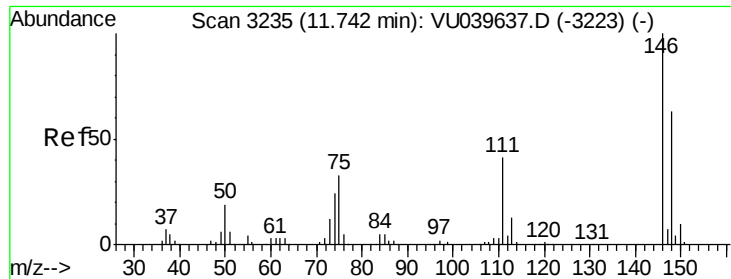
Tot Ion: 75 Resp: 4024
 Ion Ratio Lower Upper
 75 100
 77 35.1 25.4 38.2



#61
 Bromoform
 Concen: 1.556 ug/L
 RT: 10.29 min Scan# 2785
 Delta R.T. 0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 17:57

Tgt Ion: 173 Resp: 1623
 Ion Ratio Lower Upper
 173 100
 175 58.8 38.4 57.6#
 254 0.0 7.0 10.6#

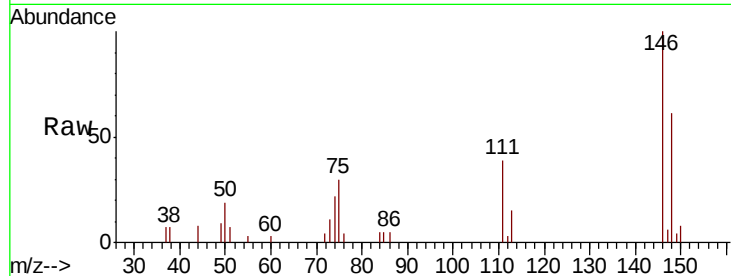




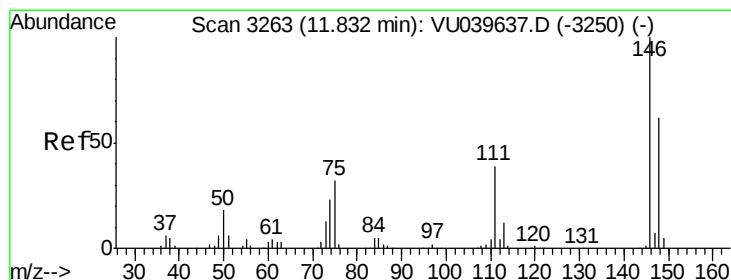
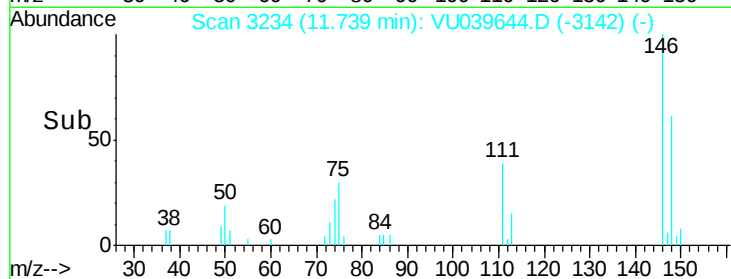
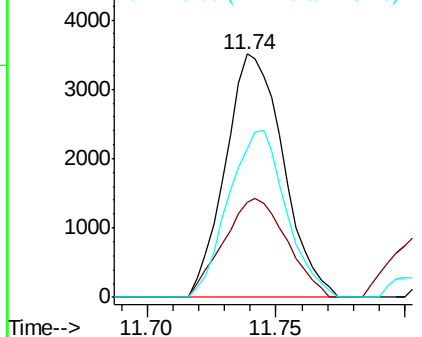
#62
 1,3-Dichlorobenzene
 Concen: 2.033 ug/L
 RT: 11.74 min Scan# 3234
 Delta R.T. -0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 17:57

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:146 Resp: 5490
 Ion Ratio Lower Upper
 146 100
 111 39.2 29.3 54.3
 148 61.1 46.1 85.5

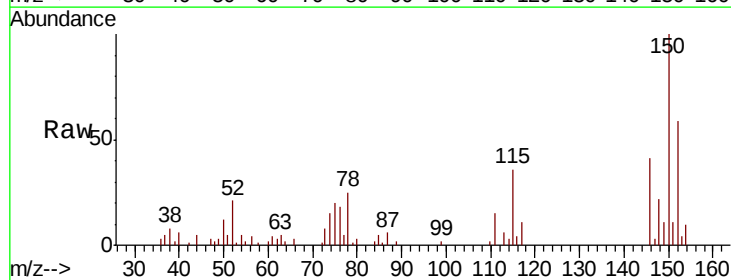


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

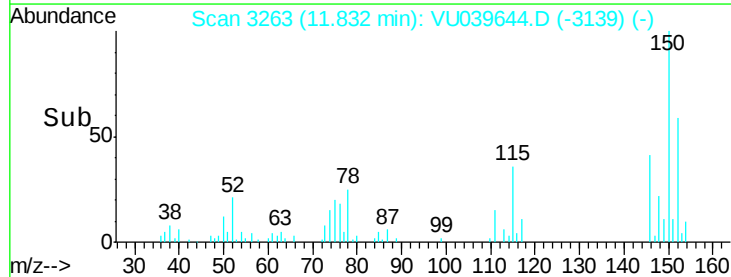
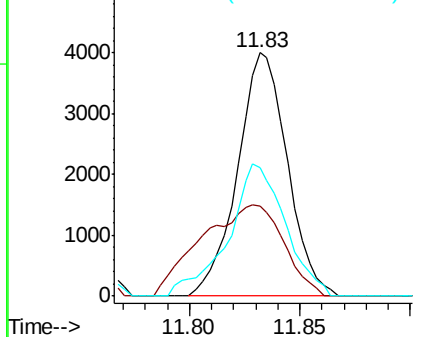


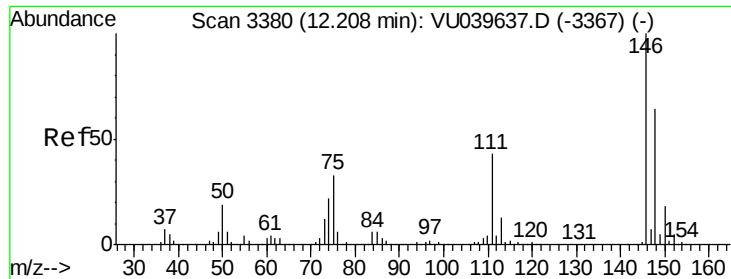
#63
 1,4-Dichlorobenzene
 Concen: 2.327 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. 0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 17:57

Tgt Ion:146 Resp: 6296
 Ion Ratio Lower Upper
 146 100
 111 36.8 27.8 51.6
 148 52.9 44.7 83.1



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





#65

1,2-Dichlorobenzene

Concen: 2.076 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 17:57

Instrument :

MSVOA_U

ClientSampleId :

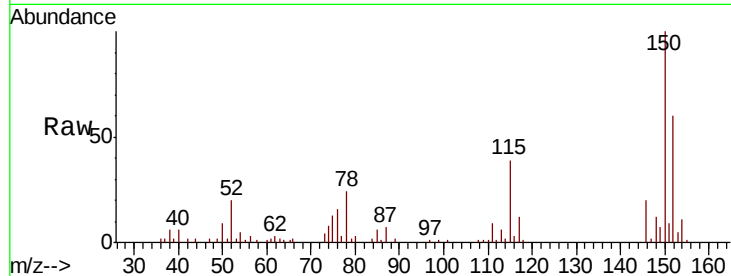
Tot Ion:146 Resp: 5666

Ion Ratio Lower Upper

146 100

111 43.1 34.8 52.2

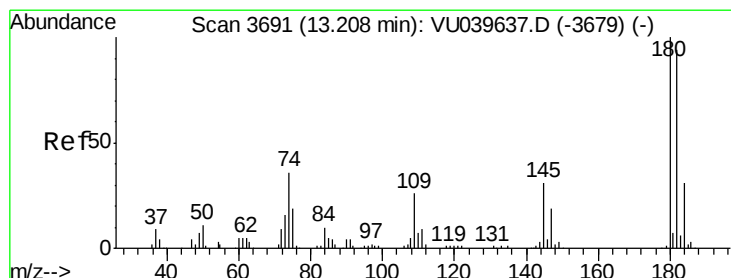
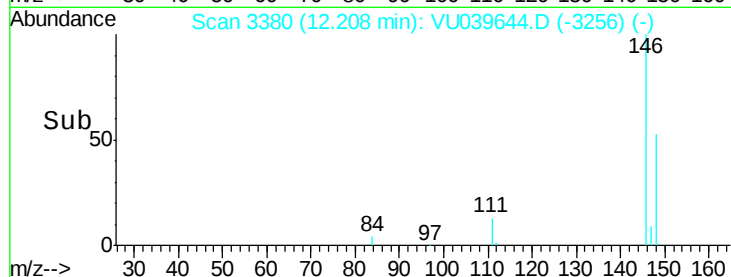
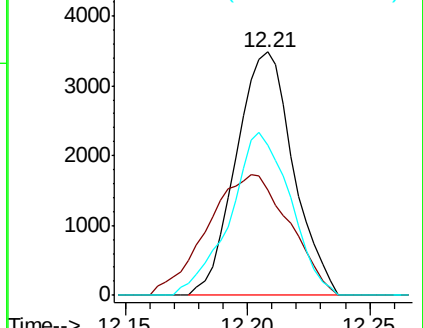
148 61.9 52.5 78.7



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



#67

1,3,5-Trichlorobenzene

Concen: 1.965 ug/L

RT: 13.21 min Scan# 3692

Delta R.T. 0.00 min

Lab File: VU039644.D

Acq: 23 Jul 2020 17:57

Tgt Ion:180 Resp: 3826

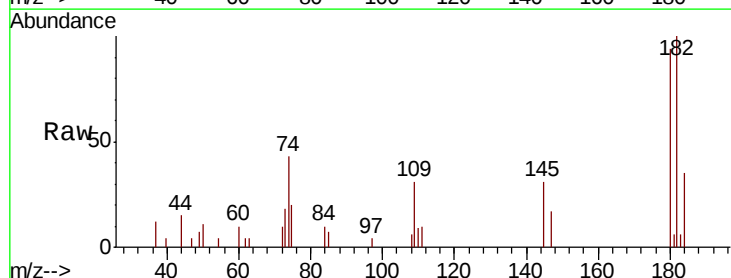
Ion Ratio Lower Upper

180 100

182 91.2 75.7 113.5

184 33.1 24.2 36.2

145 30.4 24.6 36.8

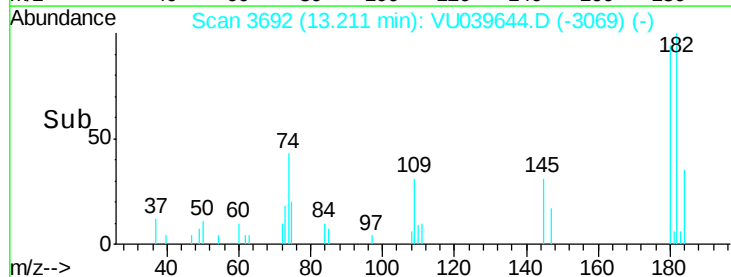
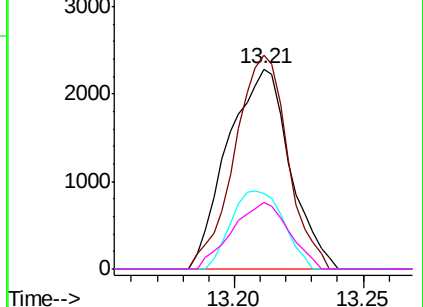


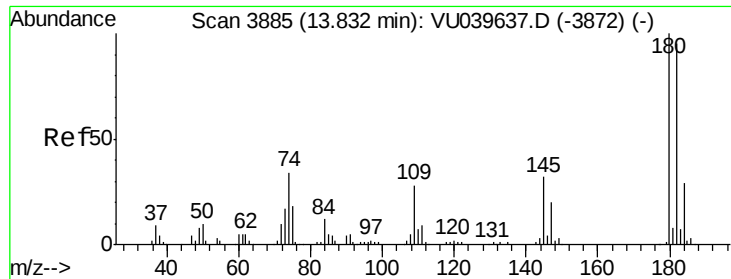
Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V

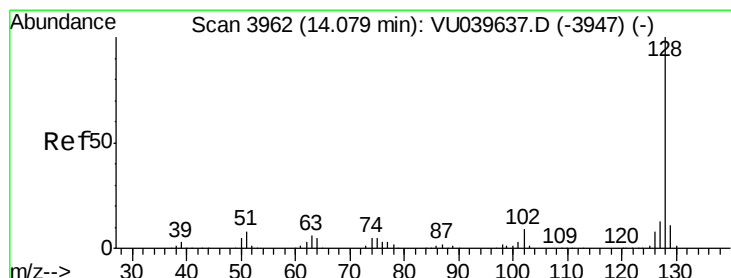
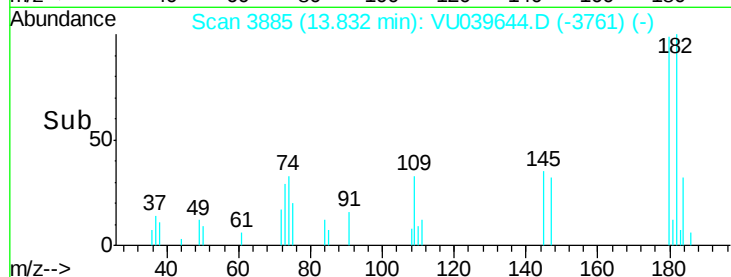
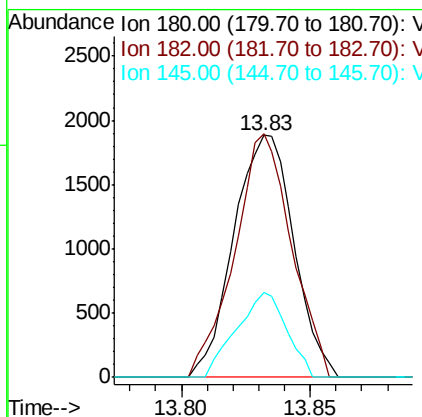
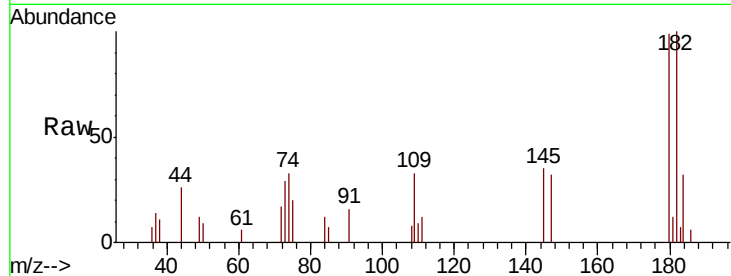




#68
 1,2,4-trichlorobenzene
 Concen: 1.846 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 17:57

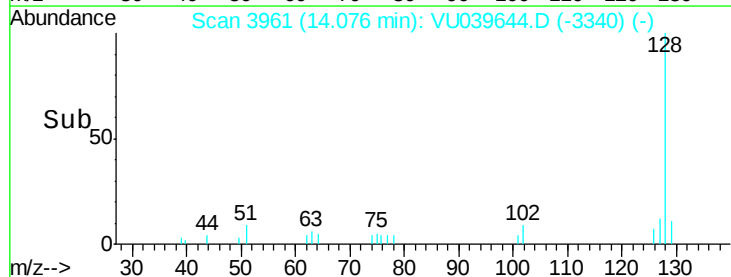
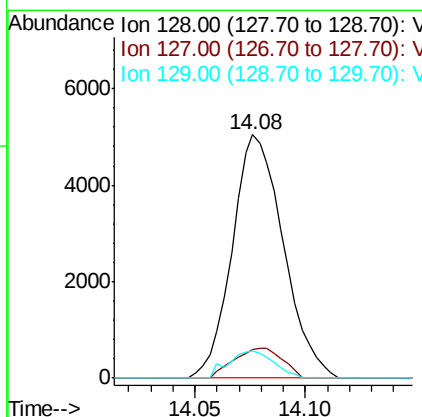
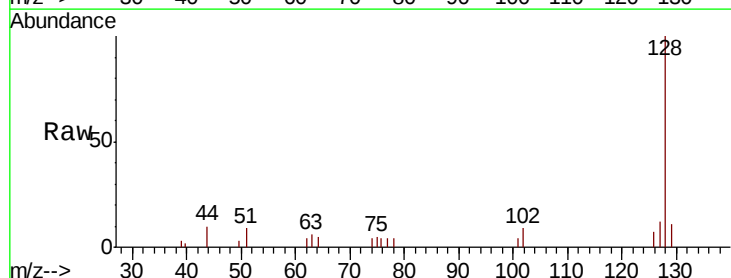
Instrument :
 MSVOA_U
 ClientSampled :

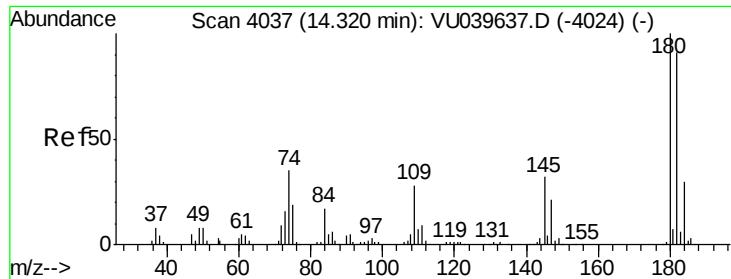
Tot Ion:180 Resp: 3051
 Ion Ratio Lower Upper
 180 100
 182 95.4 74.4 111.6
 145 29.2 24.8 37.2



#69
 Naphthalene
 Concen: 1.638 ug/L
 RT: 14.08 min Scan# 3961
 Delta R.T. -0.00 min
 Lab File: VU039644.D
 Acq: 23 Jul 2020 17:57

Tgt Ion:128 Resp: 8121
 Ion Ratio Lower Upper
 128 100
 127 11.7 10.7 16.1
 129 10.0 8.8 13.2





#70

1,2,3-Trichlorobenzene

Concen: 1.731 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. 0.00 min

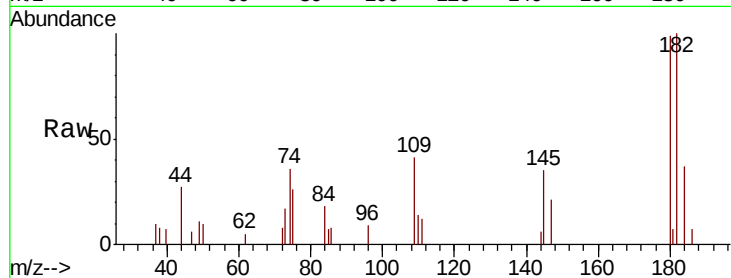
Lab File: VU039644.D

Acq: 23 Jul 2020 17:57

Instrument :

MSVOA_U

ClientSampleId :



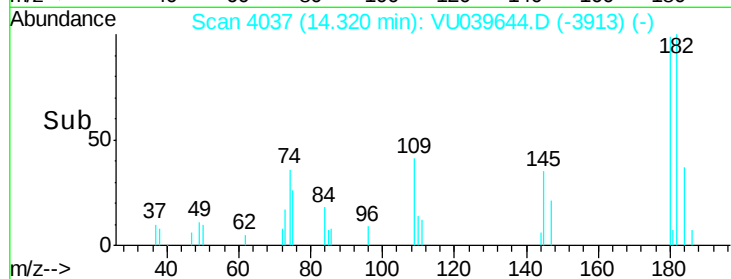
Tot Ion:180 Resp: 2890

Ion Ratio Lower Upper

180 100

182 101.8 76.6 114.8

145 32.8 27.0 40.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

