

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062220\
 Data File : VU039030.D
 Acq On : 23 Jun 2020 01:30
 Operator : SY/MD
 Sample : L3073-06
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 F9L46

Quant Time: Jun 23 03:52:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR062220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jun 23 01:25:34 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	253119	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	261484	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.82	152	113256	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	121837	5.86	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	117.20%
7) Chloroethane-d5	1.93	69	90430	6.07	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	121.40%
11) 1,1-Dichloroethene-d2	2.59	63	164395	4.21	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	84.20%
20) 2-Butanone-d5	4.66	46	375853	55.52	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.04%
24) Chloroform-d	5.10	84	197056	5.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.20%
26) 1,2-Dichloroethane-d4	5.74	65	127067	5.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	113.40%
32) Benzene-d6	5.76	84	418279	5.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.20%
36) 1,2-Dichloropropane-d6	6.72	67	135249	5.32	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.40%
41) Toluene-d8	7.92	98	323765	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.00%
43) trans-1,3-Dichloropropene-	8.20	79	52838	4.83	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	96.60%
46) 2-Hexanone-d5	8.65	63	288211	54.13	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.26%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	119961	5.33	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	106.60%
64) 1,2-Dichlorobenzene-d4	12.20	152	130518	5.92	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	118.40%

Target Compounds

					Ovalue
3) Chloromethane	1.53	50	1914	0.136 ug/L #	63
5) Vinyl chloride	1.61	62	1035951	40.086 ug/L	87
6) Bromomethane	1.87	94	1148	0.186 ug/L	99
8) Chloroethane	1.95	64	8954	0.630 ug/L #	72
12) 1,1-Dichloroethene	2.59	96	1895	0.104 ug/L #	1
13) Acetone	2.66	43	14667	3.434 ug/L	97
14) Carbon disulfide	2.82	76	11760	0.186 ug/L #	94
15) Methyl Acetate	2.81	43	12123	1.115 ug/L #	53
17) Methyl tert-butyl Ether	3.40	73	553005	12.490 ug/L	100
18) trans-1,2-Dichloroethene	3.39	96	66702	3.420 ug/L	97
22) cis-1,2-Dichloroethene	4.70	96	1534774	73.382 ug/L	94
25) Chloroform	5.12	83	19560	0.488 ug/L	95
33) Benzene	5.81	78	68814	0.815 ug/L	100
34) Trichloroethene	6.57	95	9894	0.469 ug/L	98
35) Methylcyclohexane	6.72	83	32082	1.005 ug/L #	17
37) 1,2-Dichloropropane	6.72	63	16201	0.714 ug/L #	87
39) cis-1,3-Dichloropropene	7.59	75	3784	0.117 ug/L #	54

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062220\
Data File : VU039030.D
Acq On : 23 Jun 2020 01:30
Operator : SY/MD
Sample : L3073-06
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
F9L46

Quant Time: Jun 23 03:52:44 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR062220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Jun 23 01:25:34 2020
Response via : Initial Calibration

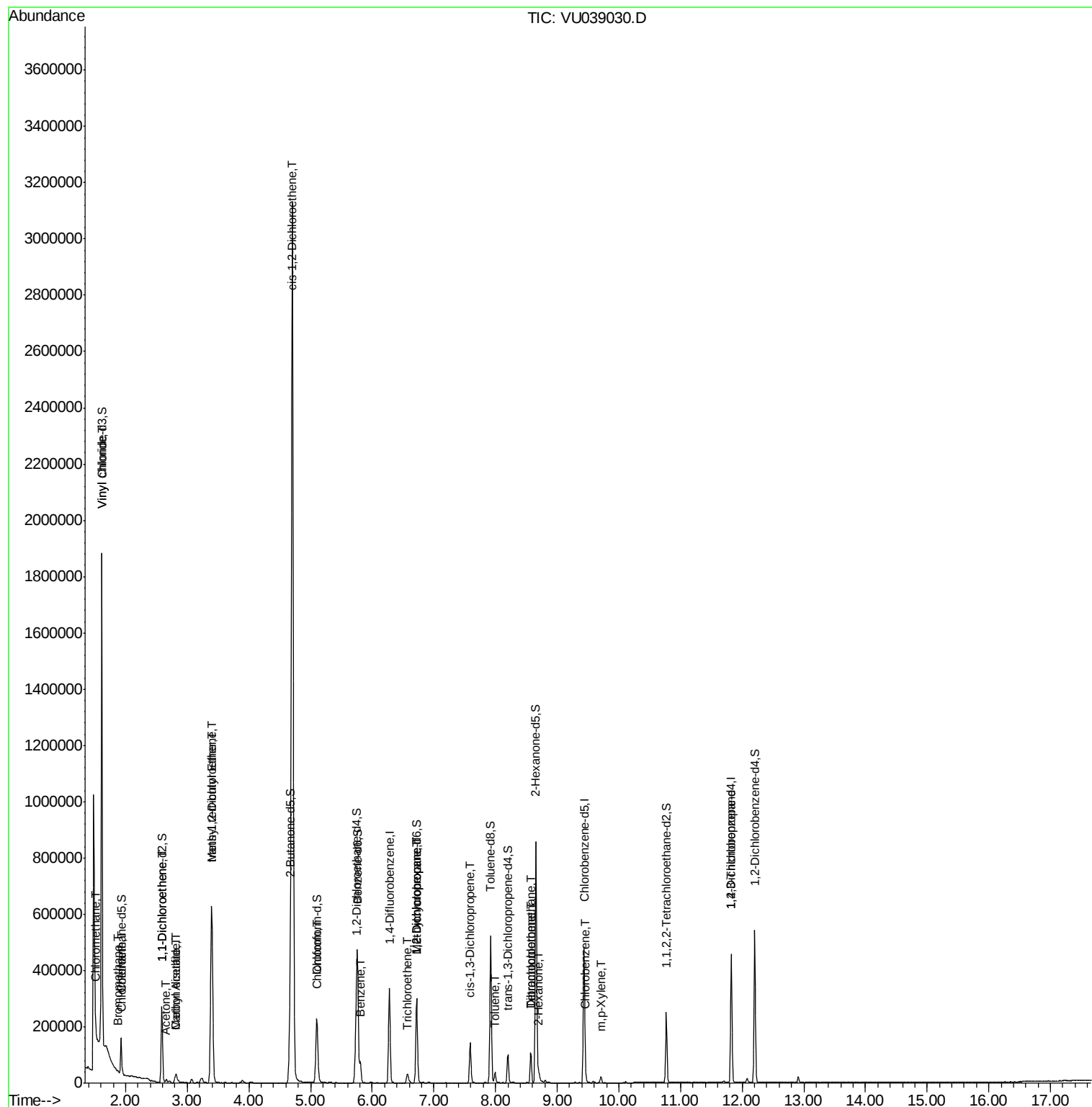
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.99	91	25626	0.302	ug/L	99
47) Tetrachloroethene	8.57	164	21993	1.482	ug/L	96
48) 2-Hexanone	8.71	43	12554	0.999	ug/L	98
49) Dibromochloromethane	8.57	129	22210	1.204	ug/L #	10
51) Chlorobenzene	9.47	112	11398	0.210	ug/L	95
53) m,p-Xylene	9.71	106	5821	0.169	ug/L	99
59) 1,2,3-Trichloropropane	11.83	75	16245	0.972	ug/L	93

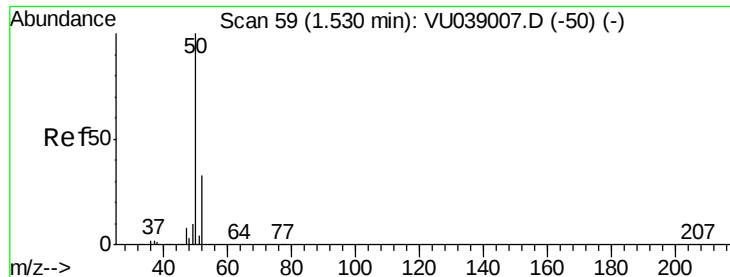
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU062220\
Data File : VU039030.D
Acq On : 23 Jun 2020 01:30
Operator : SY/MD
Sample : L3073-06
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
F9L46

Quant Time: Jun 23 03:52:44 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR062220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Jun 23 01:25:34 2020
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.136 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU039030.D

Acq: 23 Jun 2020 01:30

Instrument :

MSVOA_U

ClientSampleId :

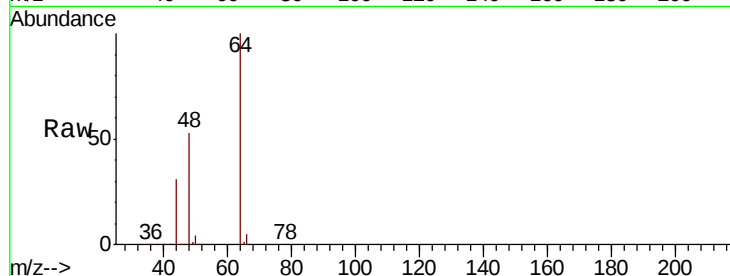
F9L46

Tot Ion: 50 Resp: 1914

Ion Ratio Lower Upper

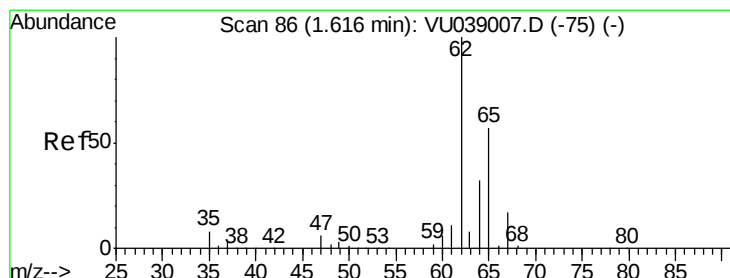
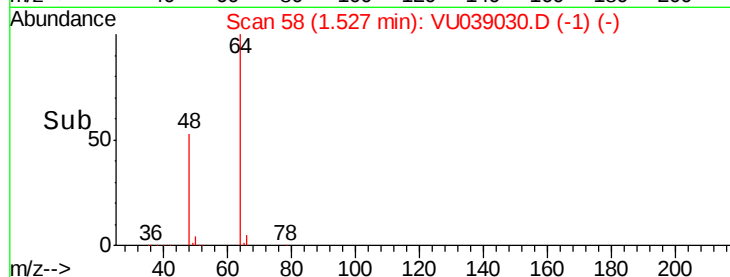
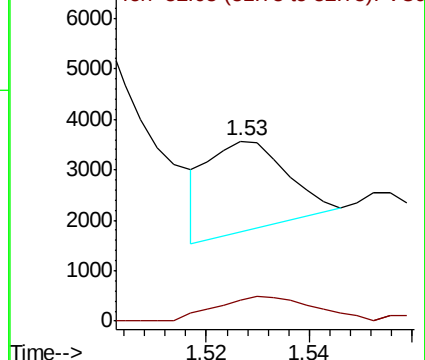
50 100

52 11.7 23.0 42.6#



Abundance Ion 50.05 (49.75 to 50.75): VU039007.D (-50) (-)

Ion 52.05 (51.75 to 52.75): VU039007.D (-50) (-)



#5

Vinyl chloride

Concen: 40.086 ug/L

RT: 1.61 min Scan# 85

Delta R.T. -0.00 min

Lab File: VU039030.D

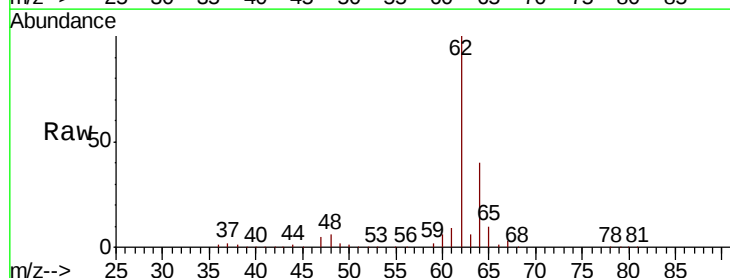
Acq: 23 Jun 2020 01:30

Tgt Ion: 62 Resp: 1035951

Ion Ratio Lower Upper

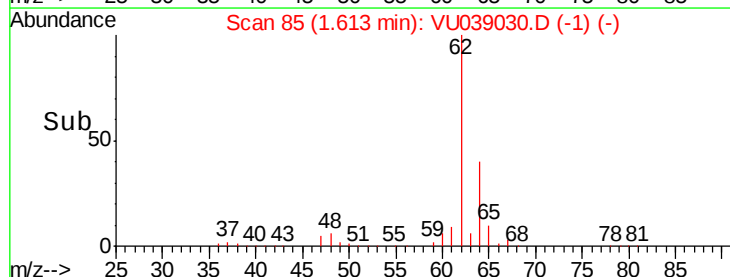
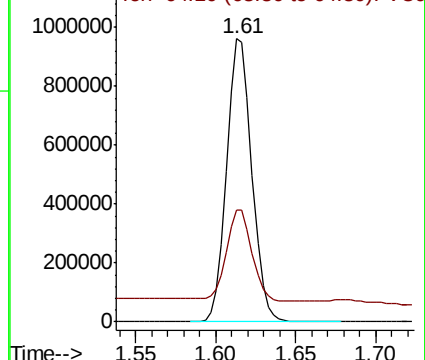
62 100

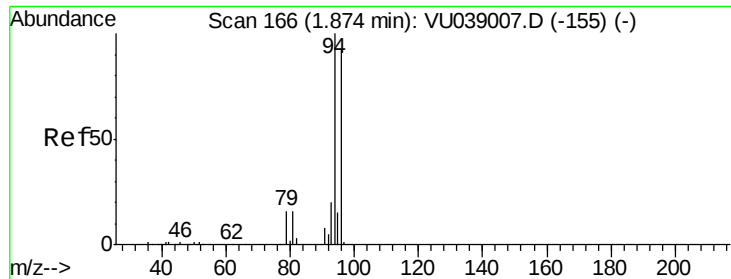
64 39.7 22.5 41.9



Abundance Ion 62.00 (61.70 to 62.70): VU039007.D (-75) (-)

Ion 64.10 (63.80 to 64.80): VU039007.D (-75) (-)





#6

Bromomethane

Concen: 0.186 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU039030.D

Acq: 23 Jun 2020 01:30

Instrument :

MSVOA_U

ClientSampleId :

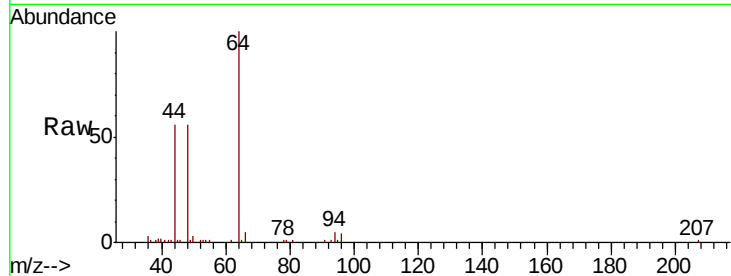
F9L46

Tot Ion: 94 Resp: 1148

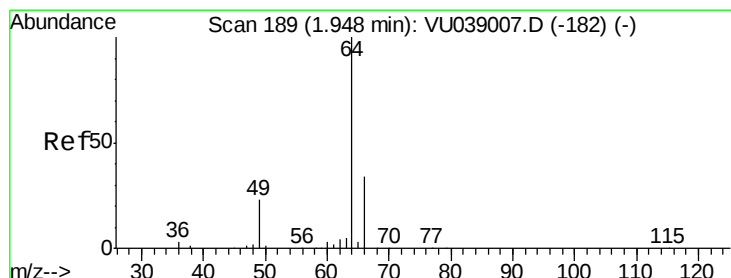
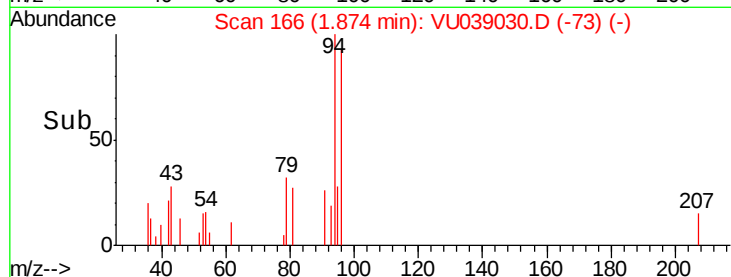
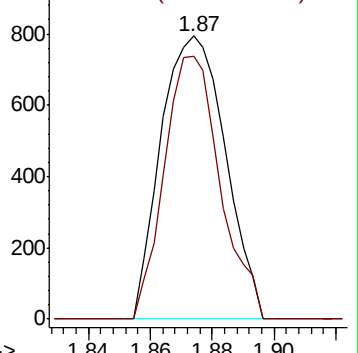
Ion Ratio Lower Upper

94 100

96 92.8 65.5 121.7



Abundance Ion 94.00 (93.70 to 94.70): VU039007.D (-155) (-)



#8

Chloroethane

Concen: 0.630 ug/L

RT: 1.95 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU039030.D

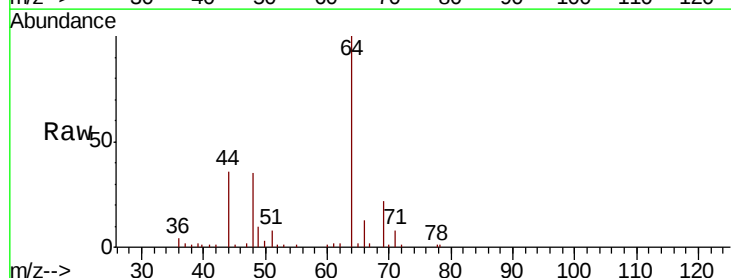
Acq: 23 Jun 2020 01:30

Tgt Ion: 64 Resp: 8954

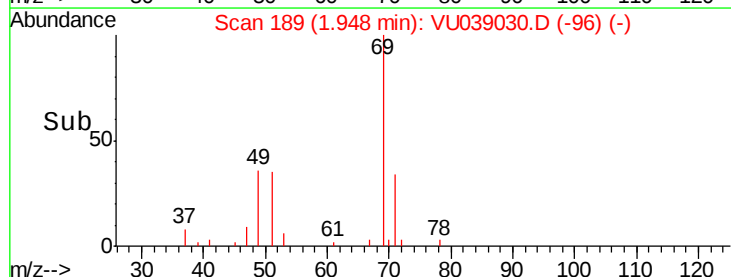
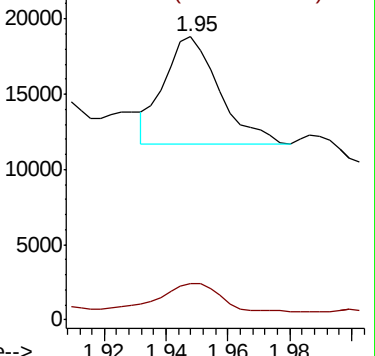
Ion Ratio Lower Upper

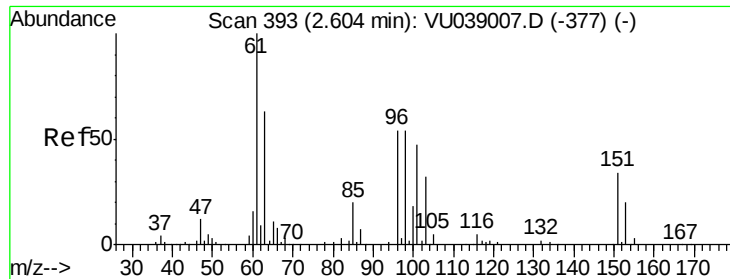
64 100

66 12.9 19.4 36.0#



Abundance Ion 64.10 (63.80 to 64.80): VU039007.D (-182) (-)





#12

1,1-Dichloroethene

Concen: 0.104 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.01 min

Lab File: VU039030.D

Acq: 23 Jun 2020 01:30

Instrument :

MSVOA_U

ClientSampled :

F9L46

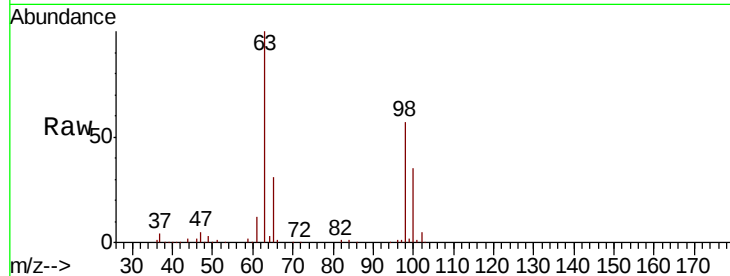
Tot Ion: 96 Resp: 1895

Ion Ratio Lower Upper

96 100

61 1159.7 128.7 239.1#

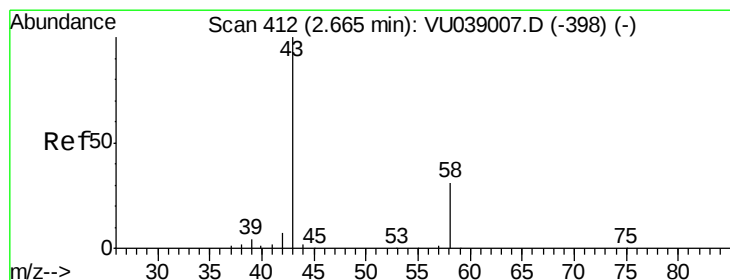
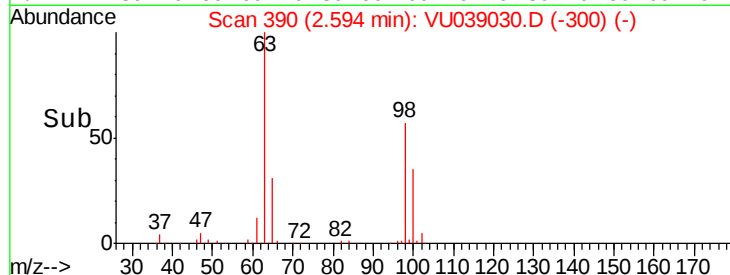
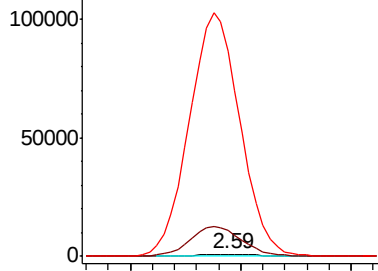
63 9373.4 101.5 188.5#



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0



#13

Acetone

Concen: 3.434 ug/L

RT: 2.66 min Scan# 410

Delta R.T. -0.01 min

Lab File: VU039030.D

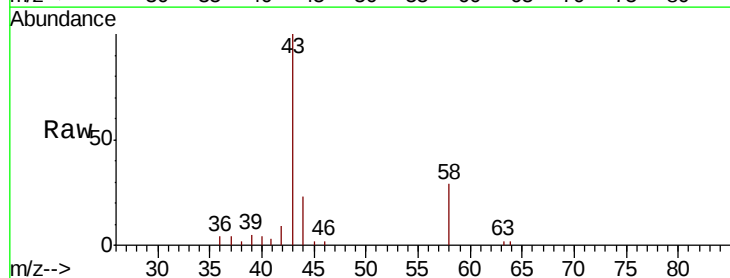
Acq: 23 Jun 2020 01:30

Tgt Ion: 43 Resp: 14667

Ion Ratio Lower Upper

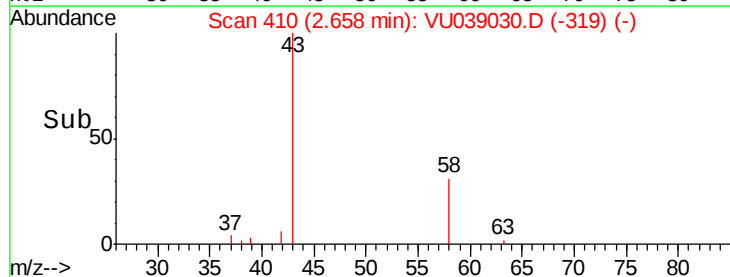
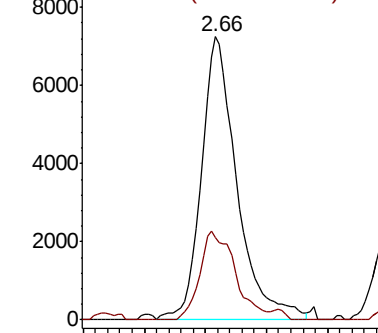
43 100

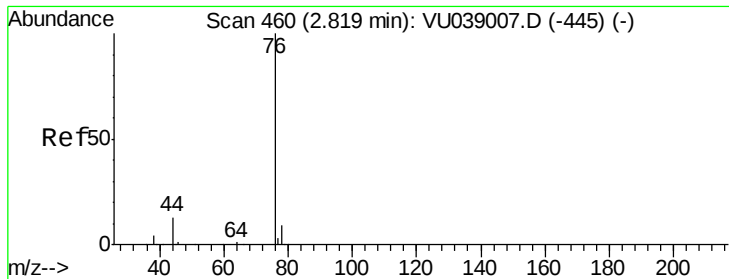
58 30.9 0.0 64.8



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0





#14

Carbon disulfide

Concen: 0.186 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU039030.D

Acq: 23 Jun 2020 01:30

Instrument :

MSVOA_U

ClientSampleId :

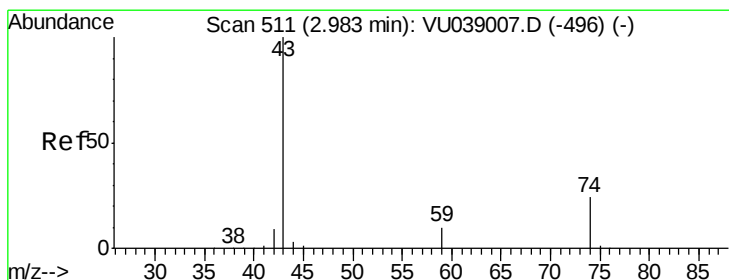
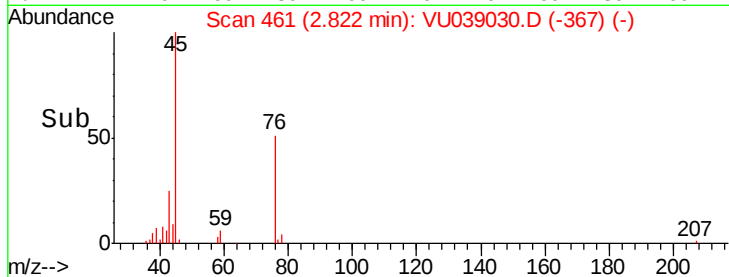
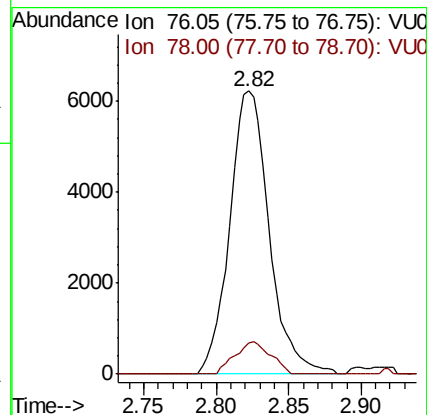
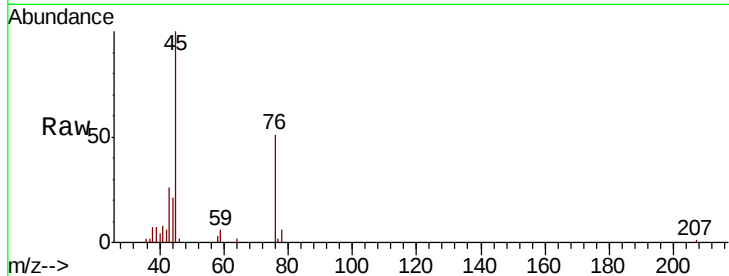
F9L46

Tot Ion: 76 Resp: 11760

Ion Ratio Lower Upper

76 100

78 10.9 7.1 10.7#



#15

Methyl Acetate

Concen: 1.115 ug/L

RT: 2.81 min Scan# 458

Delta R.T. -0.17 min

Lab File: VU039030.D

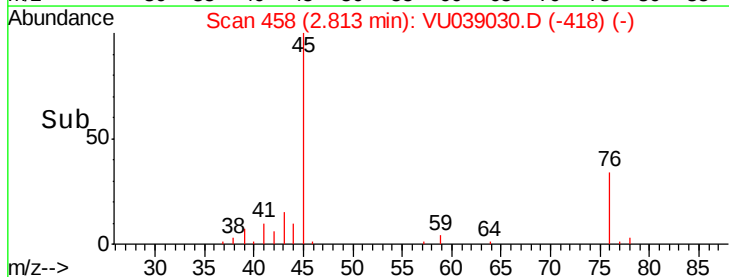
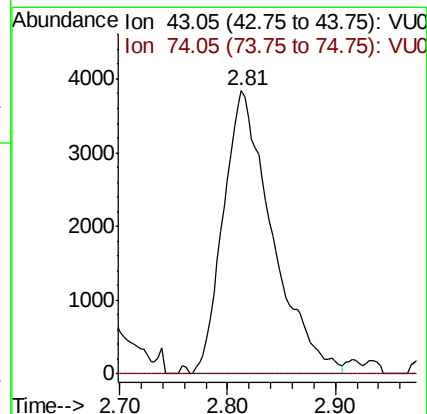
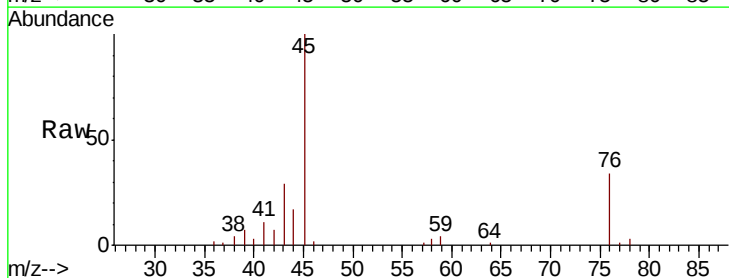
Acq: 23 Jun 2020 01:30

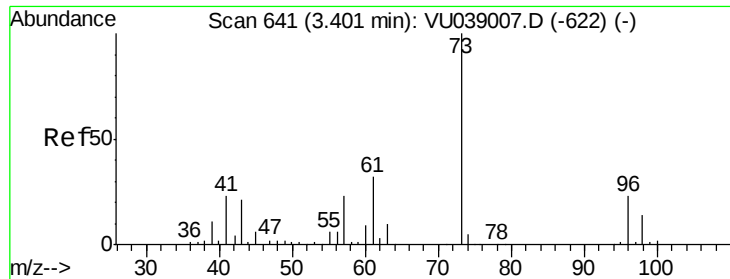
Tgt Ion: 43 Resp: 12123

Ion Ratio Lower Upper

43 100

74 0.0 18.0 27.0#

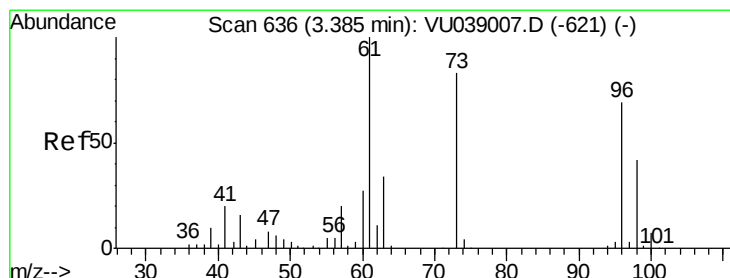
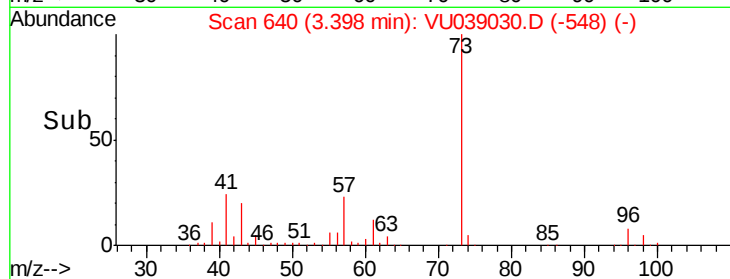
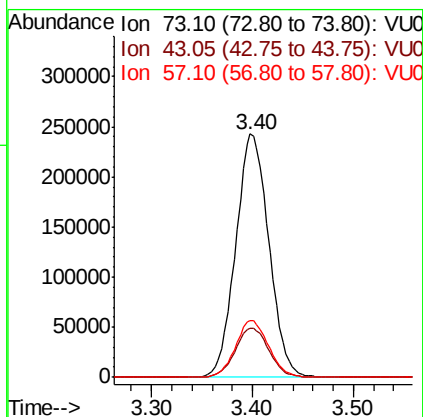
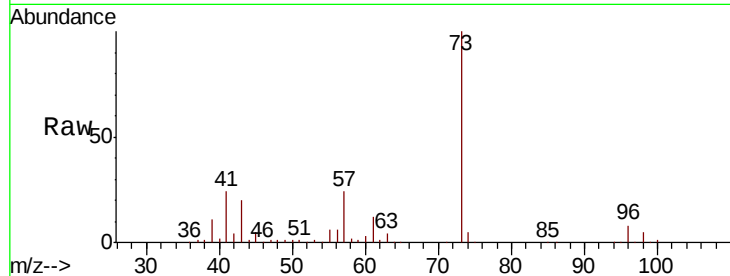




#17
Methvl tert-butvl Ether
Concen: 12.490 ug/L
RT: 3.40 min Scan# 640
Delta R.T. -0.00 min
Lab File: VU039030.D
Acq: 23 Jun 2020 01:30

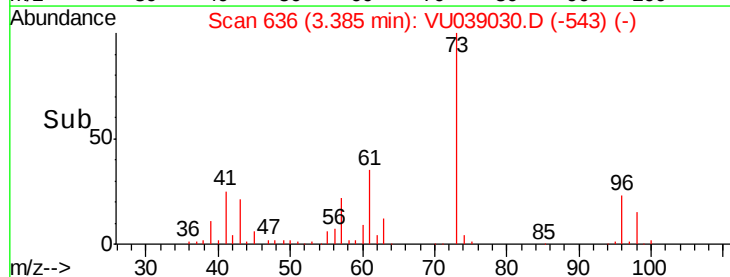
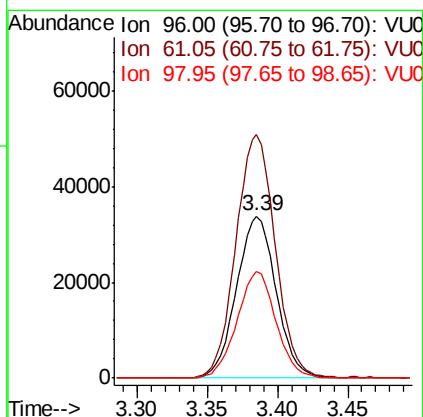
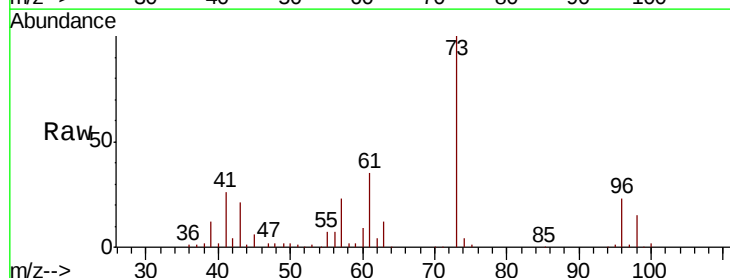
Instrument :
MSVOA_U
ClientSampleId :
F9L46

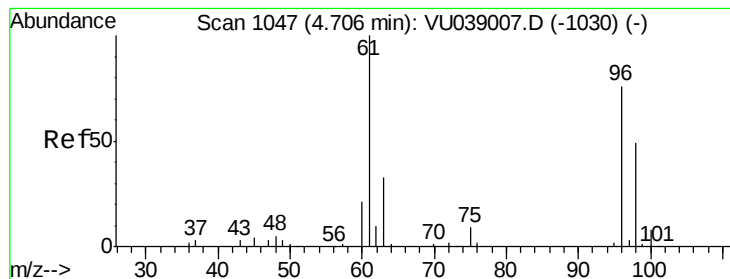
Tot Ion: 73 Resp: 553005
Ion Ratio Lower Upper
73 100
43 20.8 16.7 25.1
57 23.3 18.8 28.2



#18
trans-1,2-Dichloroethene
Concen: 3.420 ug/L
RT: 3.39 min Scan# 636
Delta R.T. 0.00 min
Lab File: VU039030.D
Acq: 23 Jun 2020 01:30

Tgt Ion: 96 Resp: 66702
Ion Ratio Lower Upper
96 100
61 150.4 102.6 190.6
98 66.1 45.0 83.6





#22

cis-1,2-Dichloroethene

Concen: 73.382 ug/L

RT: 4.70 min Scan# 1046

Delta R.T. -0.00 min

Lab File: VU039030.D

Acq: 23 Jun 2020 01:30

Instrument :

MSVOA_U

ClientSampleId :

F9L46

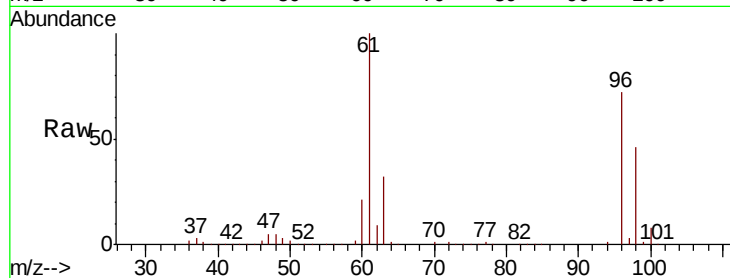
Tot Ion: 96 Resp: 1534774

Ion Ratio Lower Upper

96 100

61 138.5 92.0 170.8

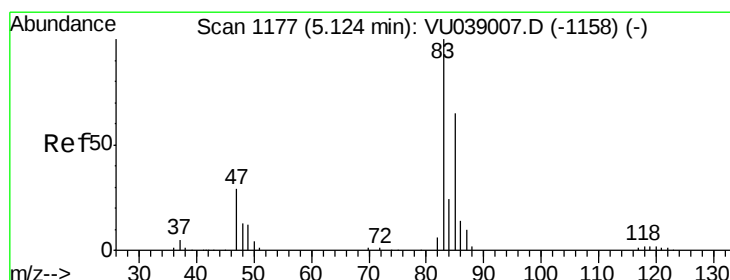
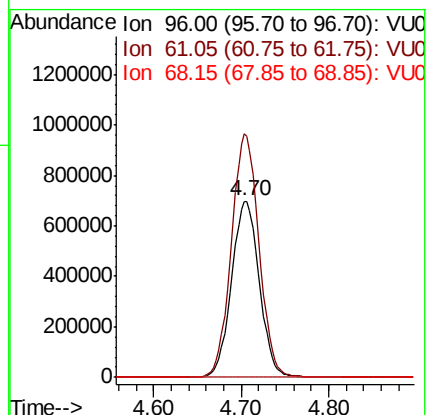
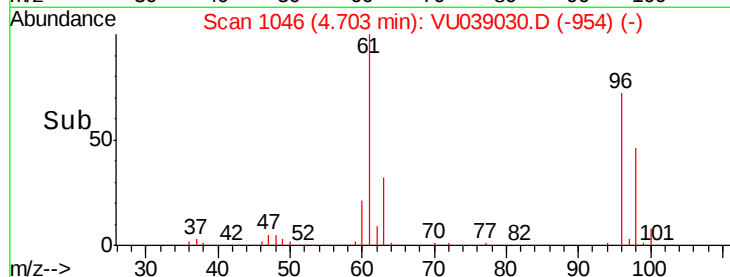
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU039007.D (-1030) (-)

Ion 61.05 (60.75 to 61.75): VU039007.D (-1030) (-)

Ion 68.15 (67.85 to 68.85): VU039007.D (-1030) (-)



#25

Chloroform

Concen: 0.488 ug/L

RT: 5.12 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VU039030.D

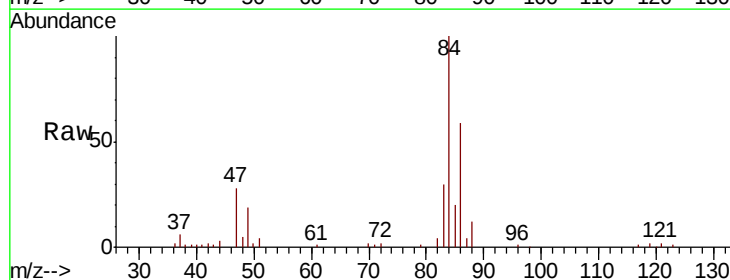
Acq: 23 Jun 2020 01:30

Tgt Ion: 83 Resp: 19560

Ion Ratio Lower Upper

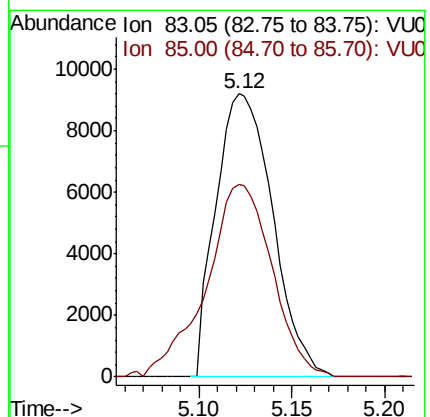
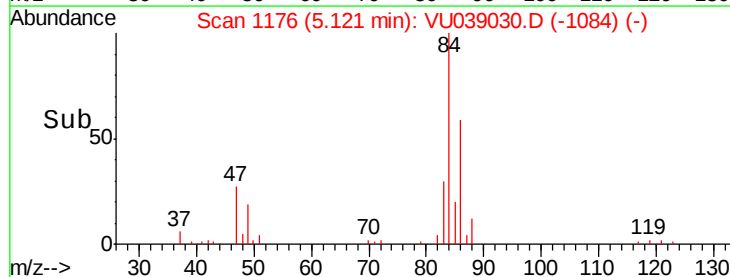
83 100

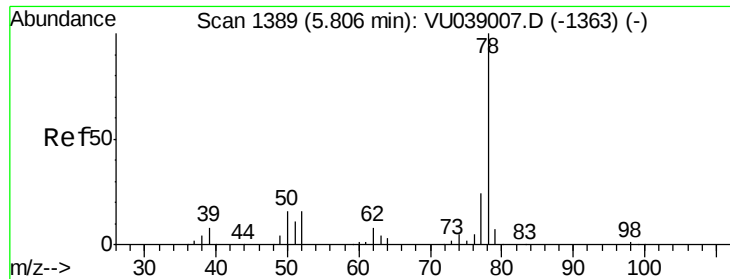
85 68.2 44.9 83.5



Abundance Ion 83.05 (82.75 to 83.75): VU039007.D (-1158) (-)

Ion 85.00 (84.70 to 85.70): VU039007.D (-1158) (-)





#33

Benzene

Concen: 0.815 ug/L

RT: 5.81 min Scan# 1389

Delta R.T. 0.00 min

Lab File: VU039030.D

Acq: 23 Jun 2020 01:30

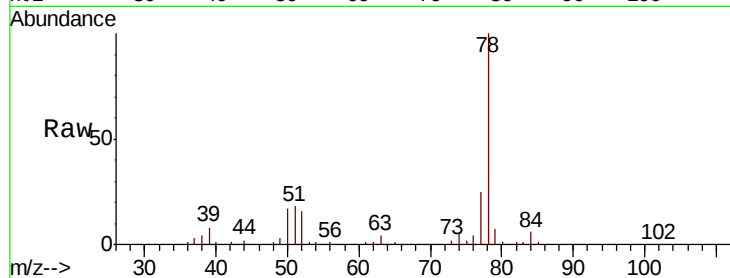
Instrument :

MSVOA_U

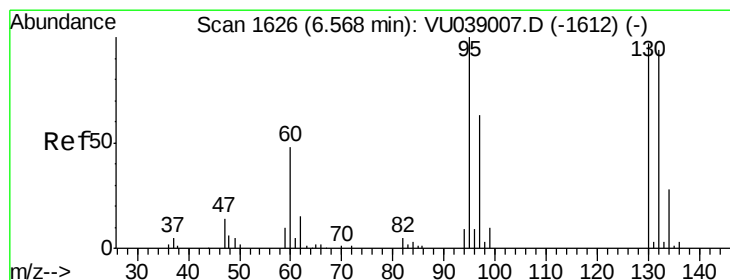
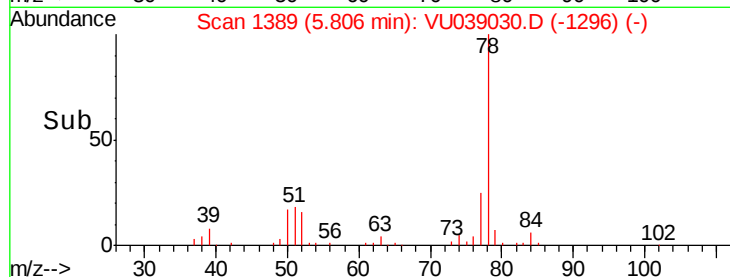
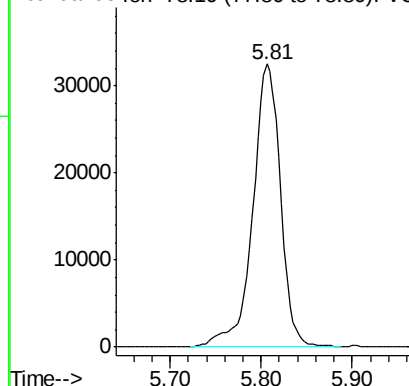
ClientSampled :

F9L46

Tgt Ion: 78 Resp: 68814



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.469 ug/L

RT: 6.57 min Scan# 1626

Delta R.T. 0.00 min

Lab File: VU039030.D

Acq: 23 Jun 2020 01:30

Tgt Ion: 95 Resp: 9894

Ion	Ratio	Lower	Upper
95	100		
97	65.0	46.0	85.4
132	95.5	65.0	120.6
130	97.9	68.0	126.2

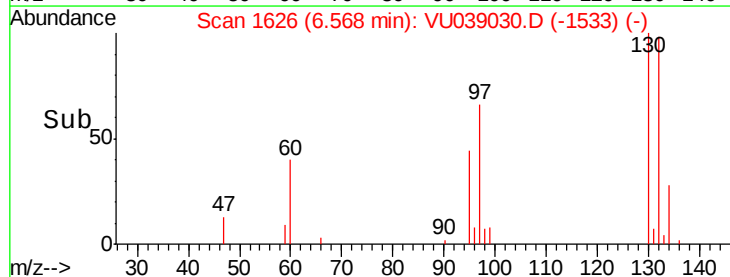
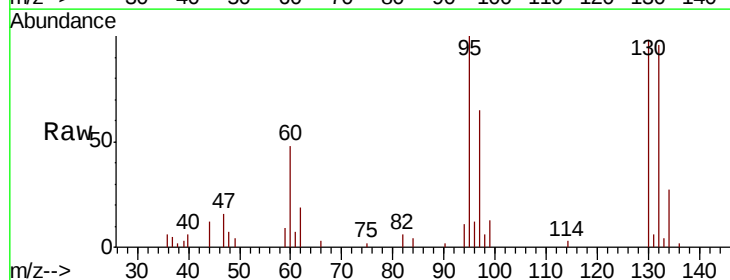
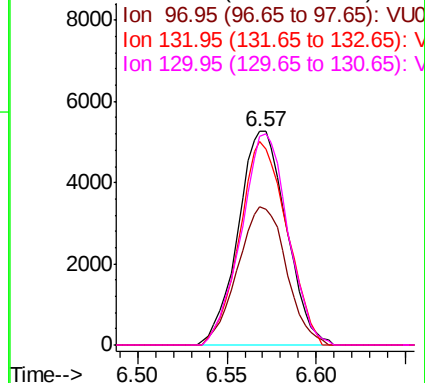
Ion 95.00 (94.70 to 95.70): VU0

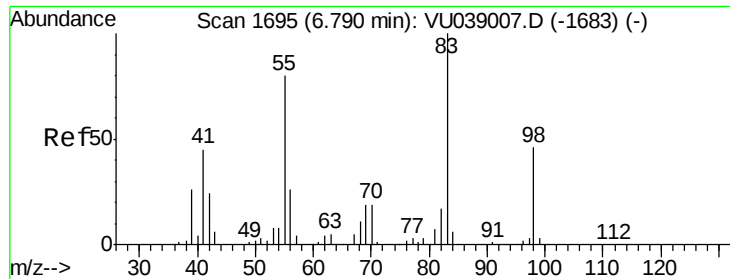
Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

Abundance Ion 95.00 (94.70 to 95.70): VU0

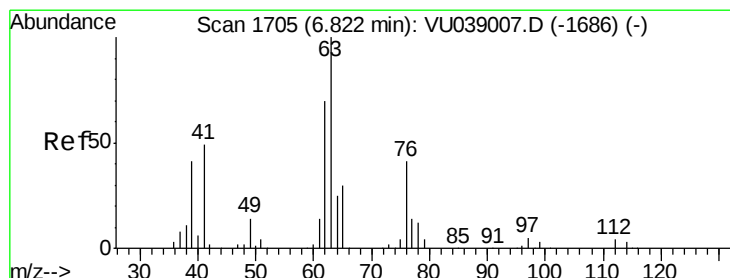
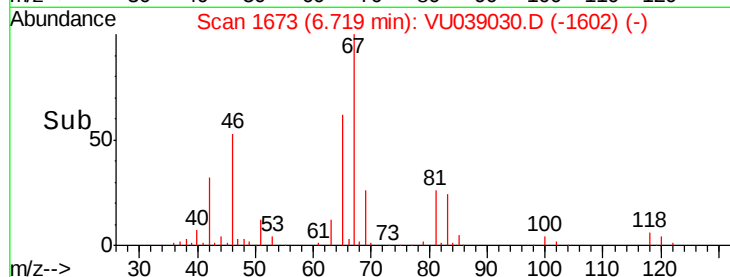
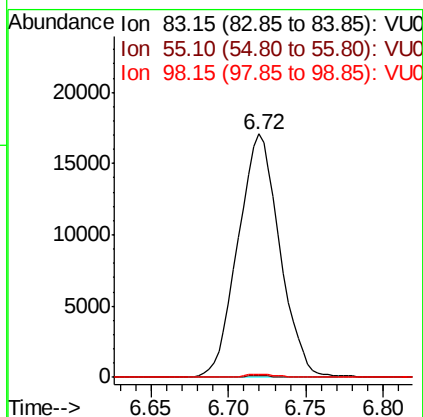
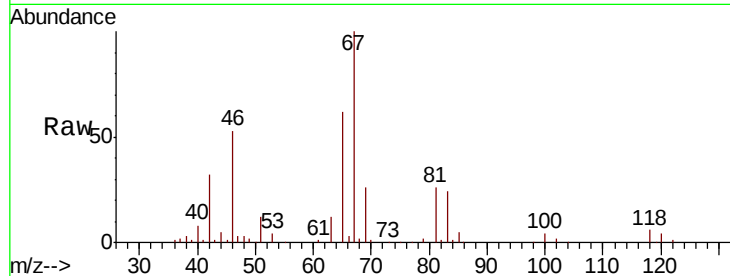




#35
Methvlcvclohexane
Concen: 1.005 ug/L
RT: 6.72 min Scan# 1673
Delta R.T. -0.07 min
Lab File: VU039030.D
Acq: 23 Jun 2020 01:30

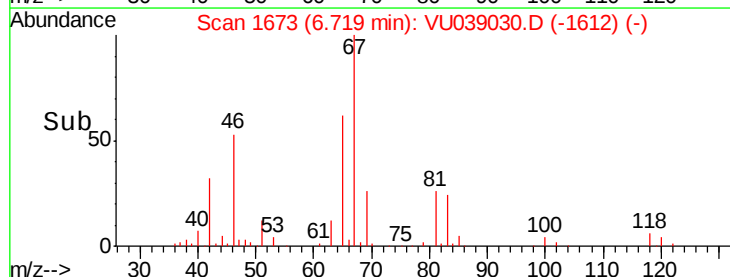
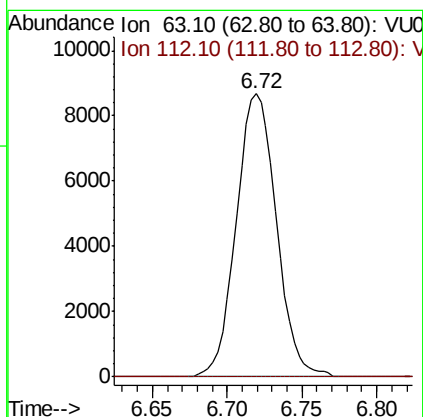
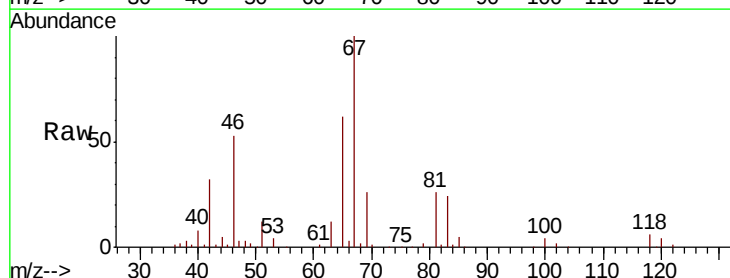
Instrument :
MSVOA_U
ClientSampleId :
F9L46

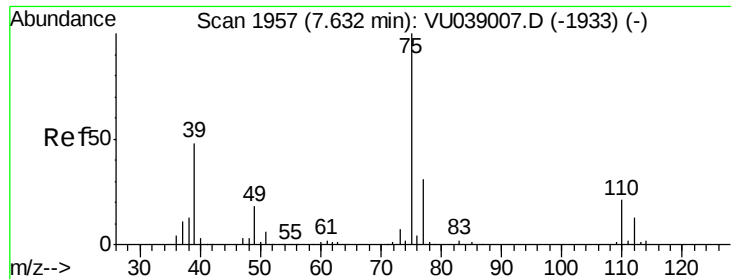
Tot Ion: 83 Resp: 32082
Ion Ratio Lower Upper
83 100
55 0.3 65.1 97.7#
98 0.9 37.0 55.4#



#37
1,2-Dichloropropane
Concen: 0.714 ug/L
RT: 6.72 min Scan# 1673
Delta R.T. -0.10 min
Lab File: VU039030.D
Acq: 23 Jun 2020 01:30

Tgt Ion: 63 Resp: 16201
Ion Ratio Lower Upper
63 100
112 0.0 3.4 5.2#

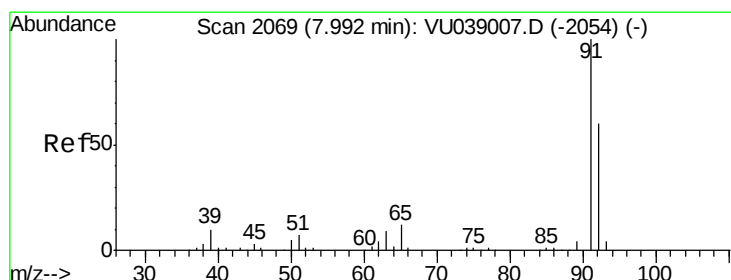
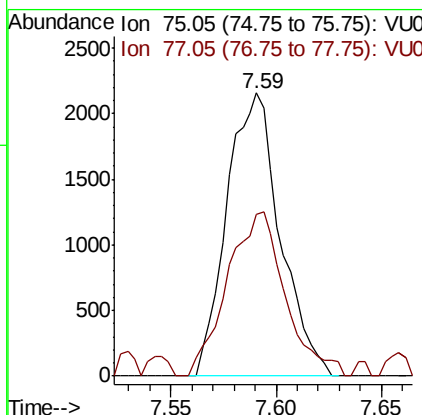
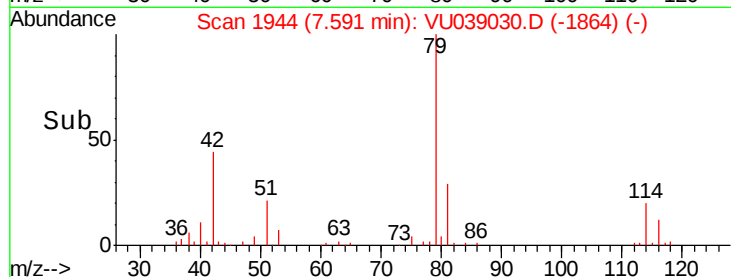
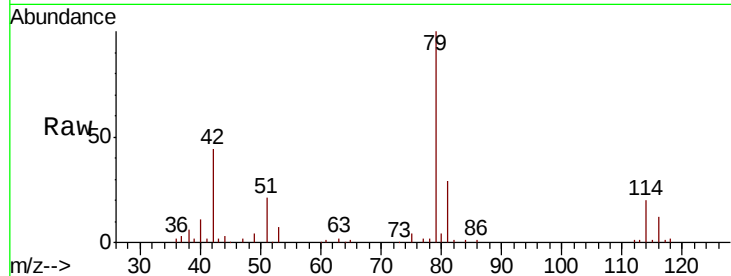




#39
 cis-1,3-Dichloropropene
 Concen: 0.117 ug/L
 RT: 7.59 min Scan# 1944
 Delta R.T. -0.04 min
 Lab File: VU039030.D
 Acq: 23 Jun 2020 01:30

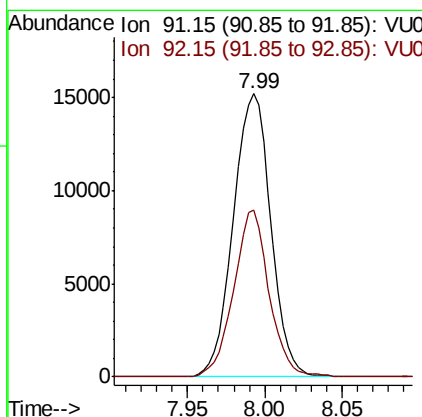
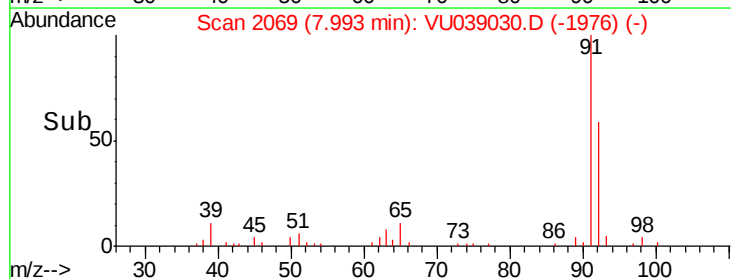
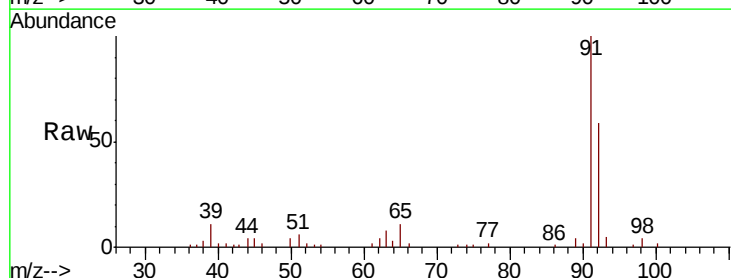
Instrument :
 MSVOA_U
 ClientSampleID :
 F9L46

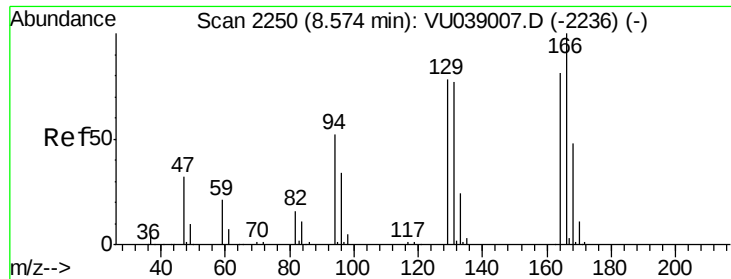
Tot Ion: 75 Resp: 3784
 Ion Ratio Lower Upper
 75 100
 77 57.1 22.0 41.0#



#42
 Toluene
 Concen: 0.302 ug/L
 RT: 7.99 min Scan# 2069
 Delta R.T. 0.00 min
 Lab File: VU039030.D
 Acq: 23 Jun 2020 01:30

Tgt Ion: 91 Resp: 25626
 Ion Ratio Lower Upper
 91 100
 92 59.0 40.9 76.0

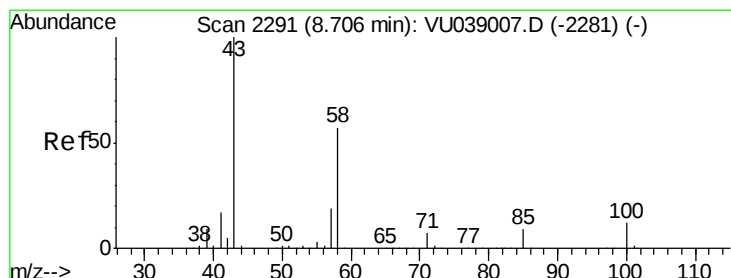
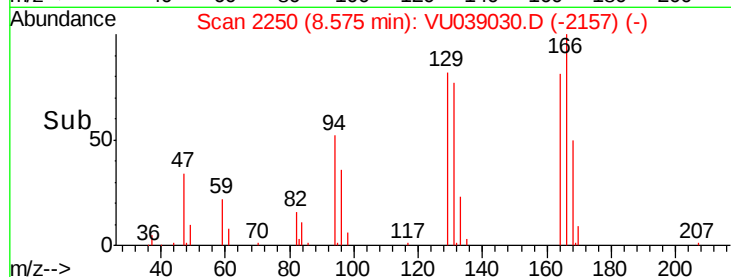
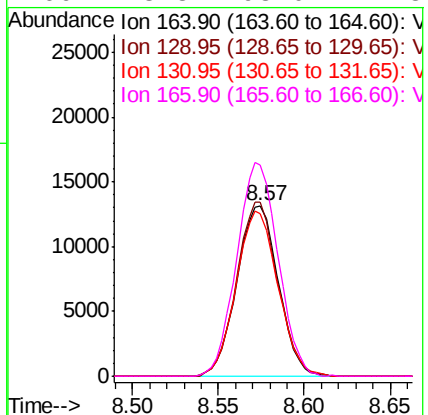
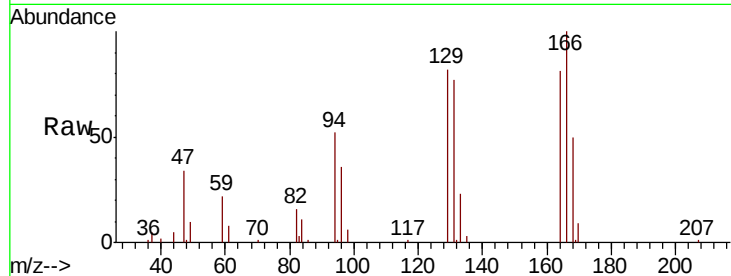




#47
Tetrachloroethene
Concen: 1.482 ug/L
RT: 8.57 min Scan# 2250
Delta R.T. 0.00 min
Lab File: VU039030.D
Acq: 23 Jun 2020 01:30

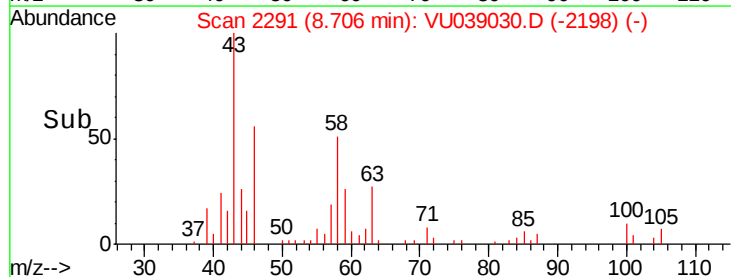
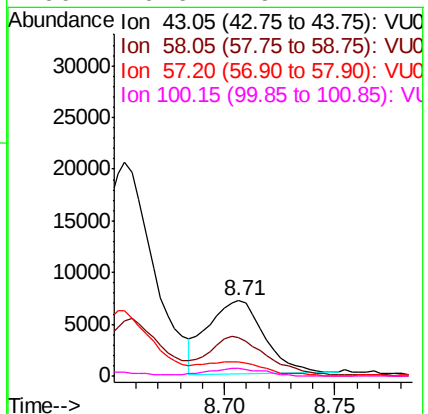
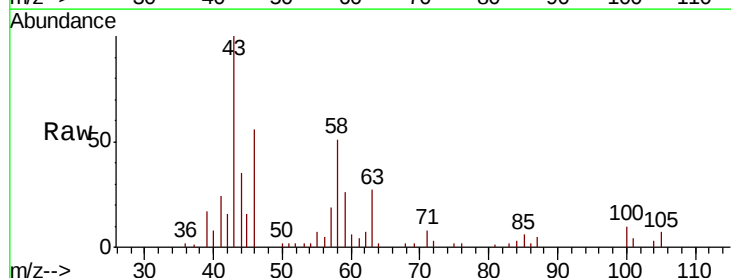
Instrument :
MSVOA_U
ClientSampled :
F9L46

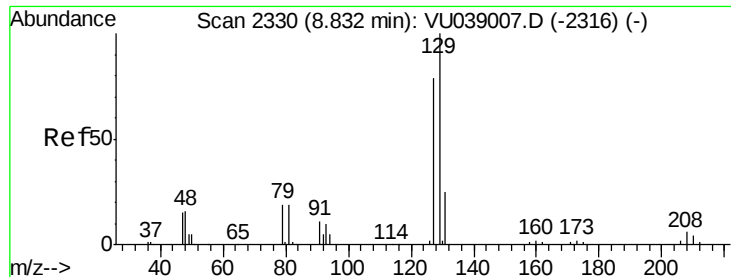
Tot Ion:164 Resp: 21993
Ion Ratio Lower Upper
164 100
129 102.1 69.2 128.6
131 95.1 66.9 124.3
166 123.8 93.0 172.8



#48
2-Hexanone
Concen: 0.999 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU039030.D
Acq: 23 Jun 2020 01:30

Tgt Ion: 43 Resp: 12554
Ion Ratio Lower Upper
43 100
58 53.8 43.5 65.3
57 20.9 15.0 22.4
100 10.6 9.4 14.2





#49

Dibromochloromethane

Concen: 1.204 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.26 min

Lab File: VU039030.D

Acq: 23 Jun 2020 01:30

Instrument :

MSVOA_U

ClientSampled :

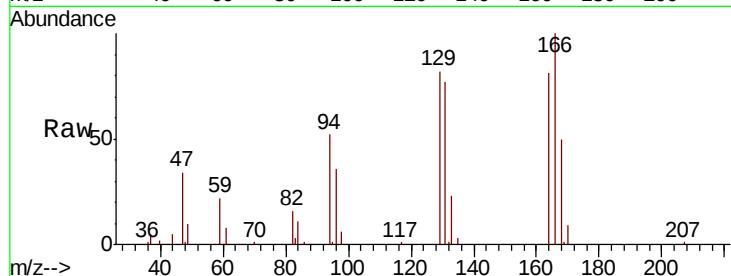
F9L46

Tot Ion:129 Resp: 22210

Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.57

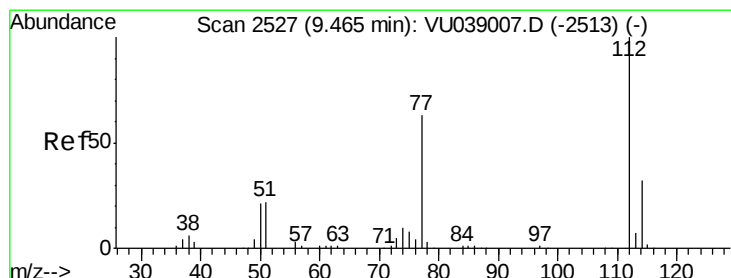
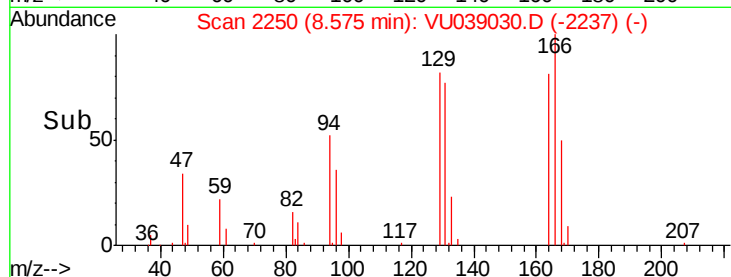
15000

10000

5000

0

Time--> 8.50 8.55 8.60



#51

Chlorobenzene

Concen: 0.210 ug/L

RT: 9.47 min Scan# 2527

Delta R.T. 0.00 min

Lab File: VU039030.D

Acq: 23 Jun 2020 01:30

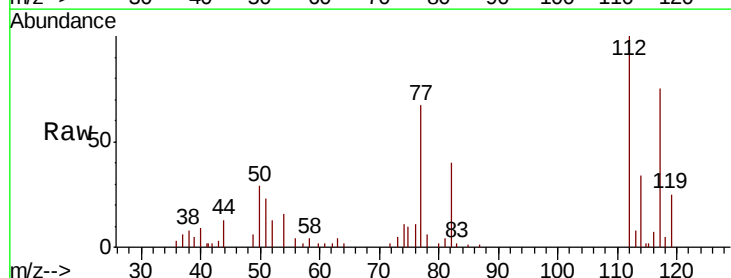
Tgt Ion:112 Resp: 11398

Ion Ratio Lower Upper

112 100

114 33.5 23.0 42.8

77 66.7 49.2 73.8



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU0

8000

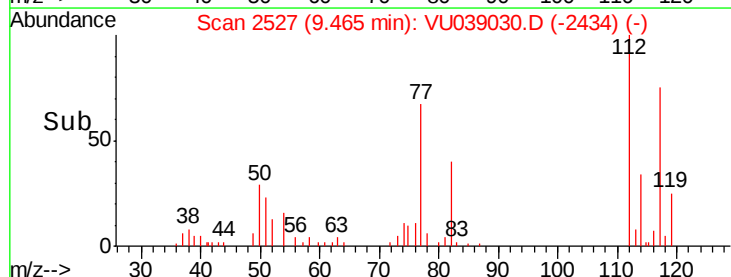
6000

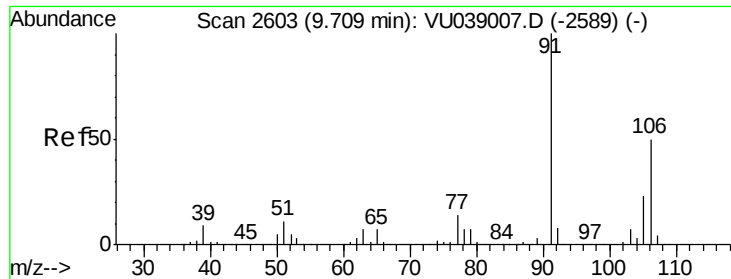
4000

2000

0

Time--> 9.40 9.45 9.50





#53

m,p-Xylene

Concen: 0.169 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU039030.D

Acq: 23 Jun 2020 01:30

Instrument :

MSVOA_U

ClientSampleId :

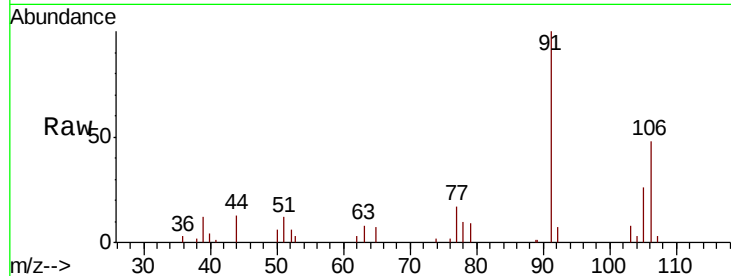
F9L46

Tot Ion:106 Resp: 5821

Ion Ratio Lower Upper

106 100

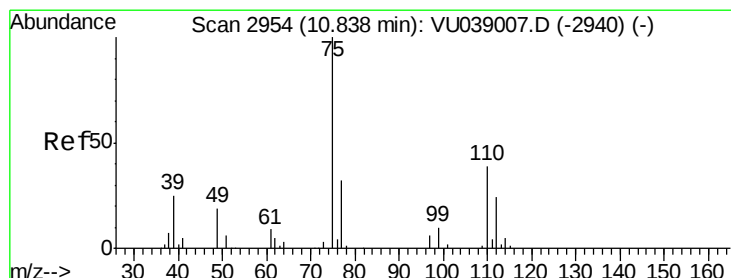
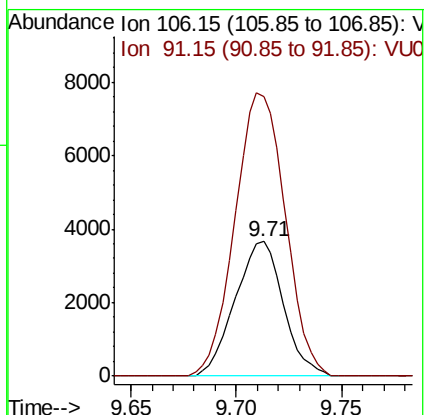
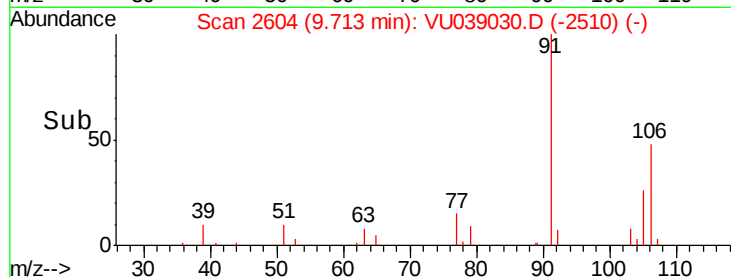
91 207.6 144.4 268.2



Abundance Ion 106.15 (105.85 to 106.85): VU039007.D (-2589) (-)

Ion 91.15 (90.85 to 91.85): VU039007.D (-2589) (-)

Time-->



#59

1,2,3-Trichloropropane

Concen: 0.972 ug/L

RT: 11.83 min Scan# 3261

Delta R.T. 0.99 min

Lab File: VU039030.D

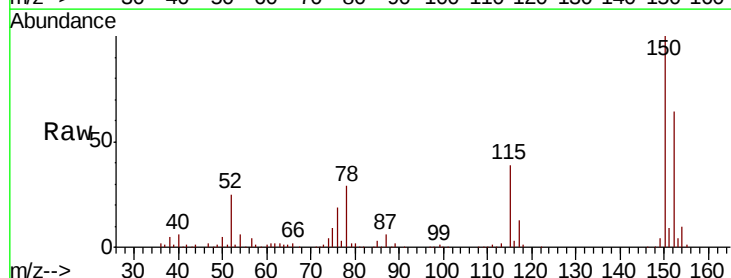
Acq: 23 Jun 2020 01:30

Tgt Ion: 75 Resp: 16245

Ion Ratio Lower Upper

75 100

77 35.9 25.5 38.3



Abundance Ion 75.00 (74.70 to 75.70): VU039007.D (-2940) (-)

Ion 77.00 (76.70 to 77.70): VU039007.D (-2940) (-)

Time-->

