

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U072120\
 Data File : VU039609.D
 Acq On : 21 Jul 2020 20:01
 Operator : SY/MD
 Sample : L3347-09
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 22 02:07:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR072120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jul 22 02:01:33 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.27	114	105175	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	98798	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	45874	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	32340	6.63	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	132.60%#
7) Chloroethane-d5	1.93	69	34813	6.53	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	130.60%#
11) 1,1-Dichloroethene-d2	2.58	63	49776	4.54	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	90.80%
20) 2-Butanone-d5	4.65	46	115342	52.38	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.76%
24) Chloroform-d	5.09	84	62862	5.08	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.60%
26) 1,2-Dichloroethane-d4	5.72	65	43901	5.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.40%
32) Benzene-d6	5.75	84	131203	5.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	110.40%
36) 1,2-Dichloropropane-d6	6.70	67	44251	5.66	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	113.20%
41) Toluene-d8	7.91	98	116145	5.16	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.20%
43) trans-1,3-Dichloropropene-	8.19	79	16306	4.80	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	96.00%
46) 2-Hexanone-d5	8.64	63	85841	51.65	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.30%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	35267	4.86	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	43488	5.27	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	105.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.40	85	1667	0.324 ug/L	97
3) Chloromethane	1.53	50	535	0.096 ug/L	100
12) 1,1-Dichloroethene	2.59	96	359	0.072 ug/L #	1
13) Acetone	2.66	43	10907	8.901 ug/L	98
14) Carbon disulfide	2.81	76	2862	0.191 ug/L	97
17) Methyl tert-butyl Ether	3.38	73	8127	0.514 ug/L #	82
21) 2-Butanone	4.74	43	3434	1.618 ug/L	76
25) Chloroform	5.11	83	9507	0.736 ug/L	88
30) Cyclohexane	5.41	56	924	0.101 ug/L #	80
33) Benzene	5.79	78	5805	0.245 ug/L	100
37) 1,2-Dichloropropane	6.70	63	5054	0.765 ug/L #	90
39) cis-1,3-Dichloropropene	7.57	75	1344	0.142 ug/L #	74
42) Toluene	7.98	91	16552	0.637 ug/L	99
47) Tetrachloroethene	8.55	164	728	0.163 ug/L #	70
48) 2-Hexanone	8.69	43	4231	1.108 ug/L #	82
52) Ethylbenzene	9.57	91	5338	0.181 ug/L	98
53) m,p-Xylene	9.69	106	4560	0.413 ug/L	92

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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jul 22 02:01:33 2020
Response via : Initial Calibration

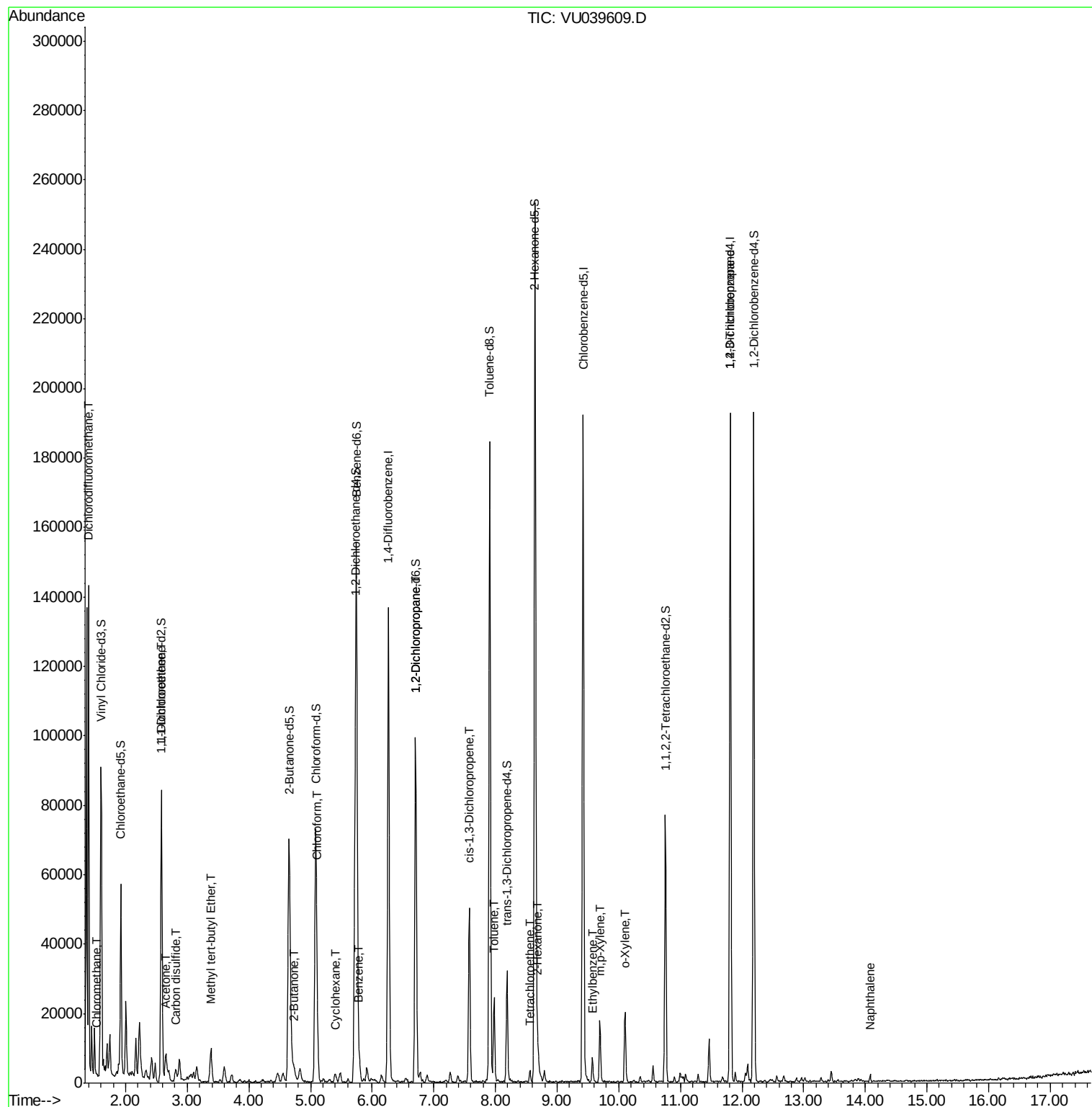
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.10	106	4811	0.447	ug/L	84
59) 1,2,3-Trichloropropane	11.81	75	6612	1.364	ug/L #	86
69) Naphthalene	14.08	128	1687	0.135	ug/L #	83

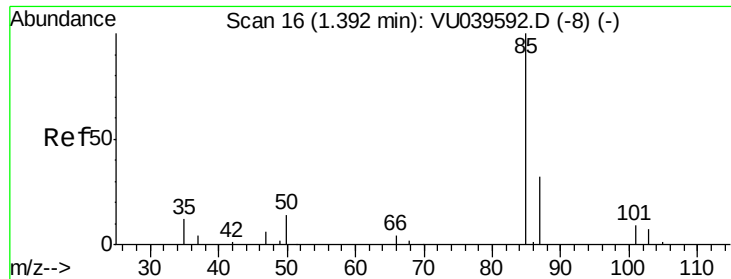
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.324 ug/L

RT: 1.40 min Scan# 18

Delta R.T. 0.01 min

Lab File: VU039609.D

Acq: 21 Jul 2020 20:01

Instrument :

MSVOA_U

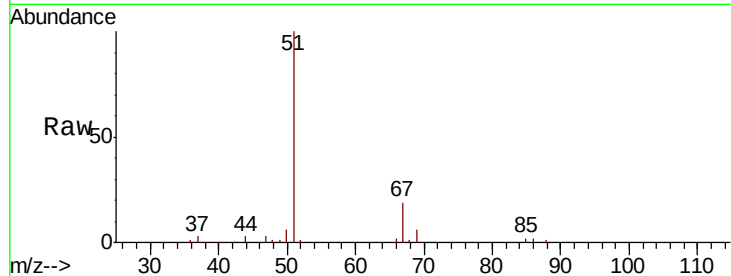
ClientSampleId :

Tot Ion: 85 Resp: 1667

Ion Ratio Lower Upper

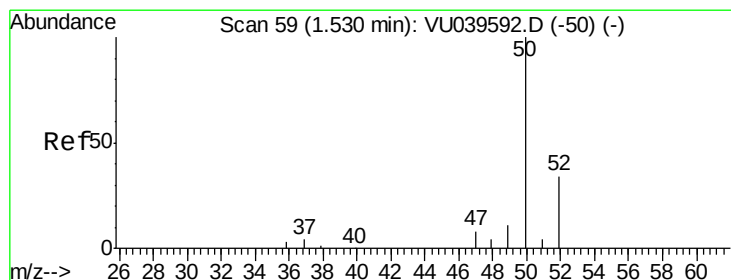
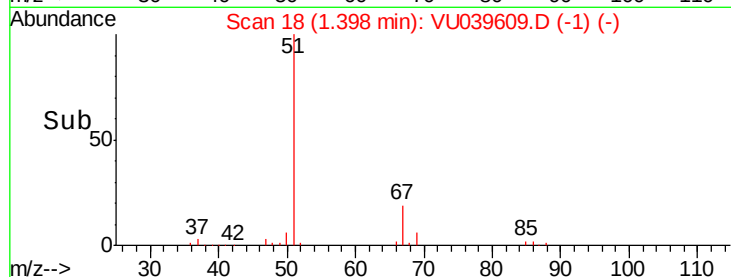
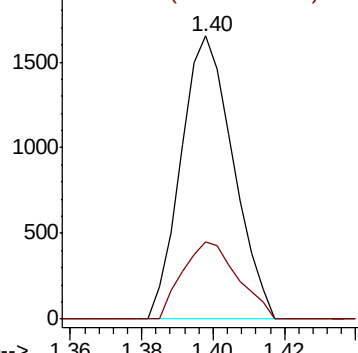
85 100

87 28.9 24.5 36.7



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 0.096 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU039609.D

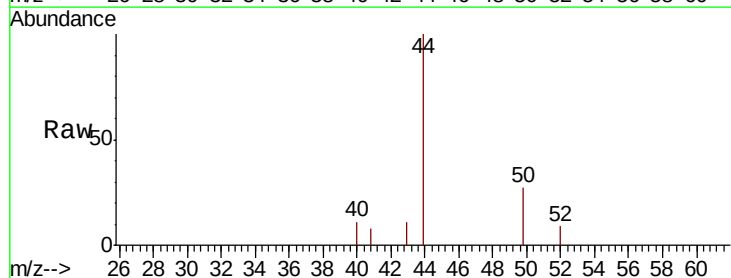
Acq: 21 Jul 2020 20:01

Tgt Ion: 50 Resp: 535

Ion Ratio Lower Upper

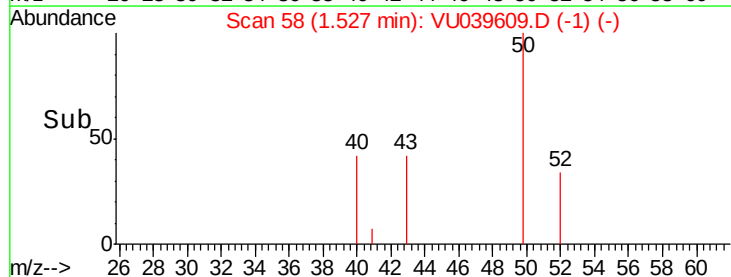
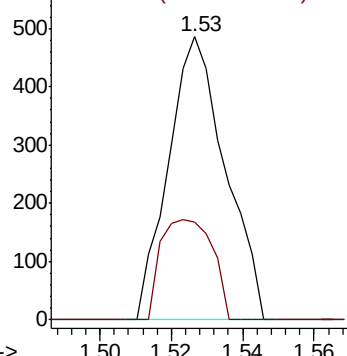
50 100

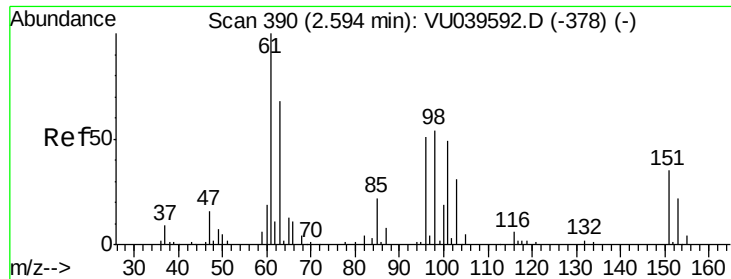
52 34.4 23.9 44.5



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#12

1,1-Dichloroethene

Concen: 0.072 ug/L

RT: 2.59 min Scan# 390

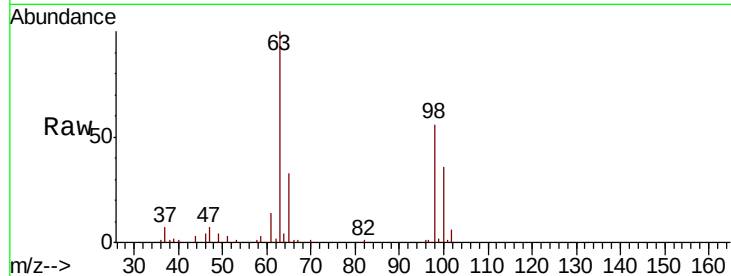
Delta R.T. -0.00 min

Lab File: VU039609.D

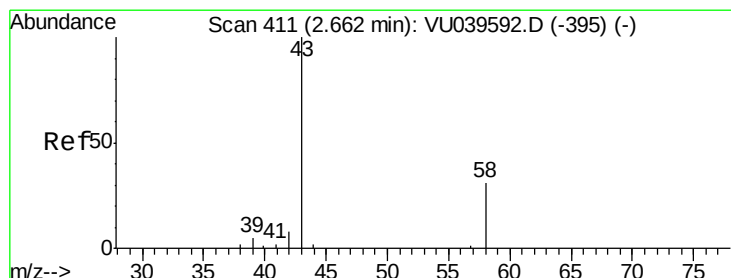
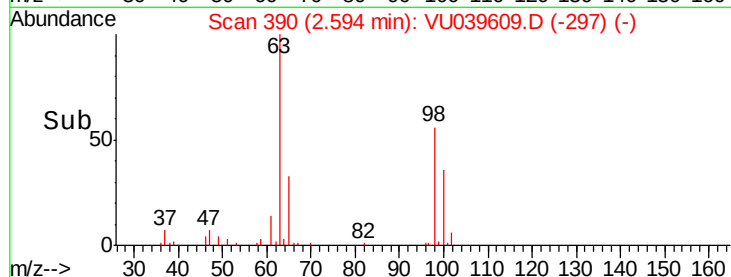
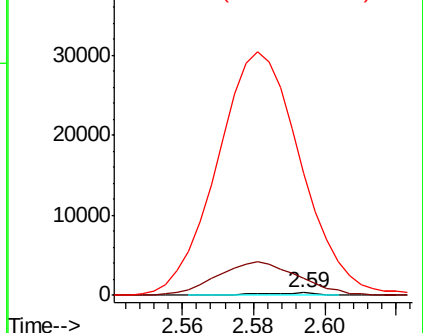
Acq: 21 Jul 2020 20:01

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 96 Resp: 359
Ion Ratio Lower Upper
96 100
61 587.0 129.1 239.7#
63 4298.9 89.7 166.7#



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: 8.901 ug/L

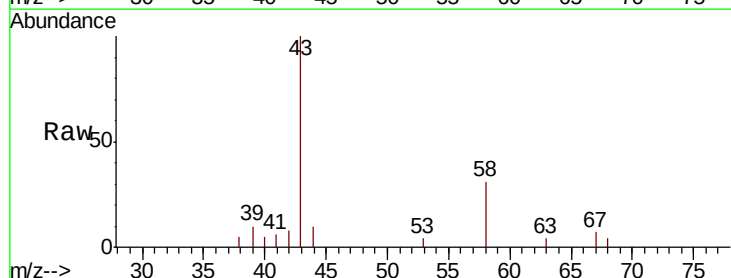
RT: 2.66 min Scan# 410

Delta R.T. -0.00 min

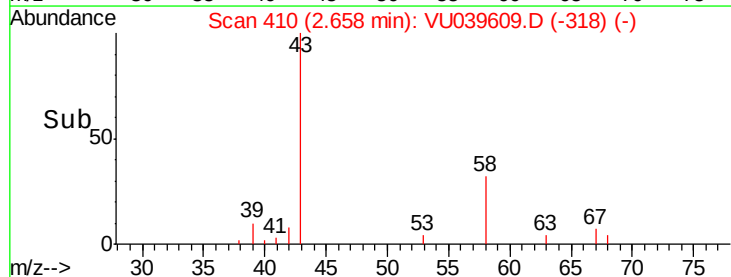
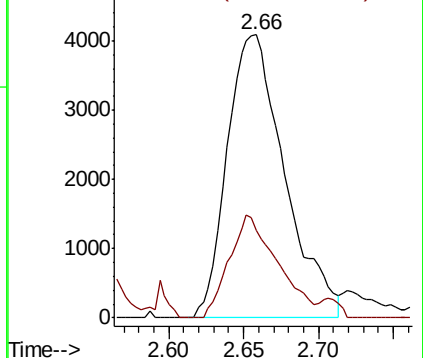
Lab File: VU039609.D

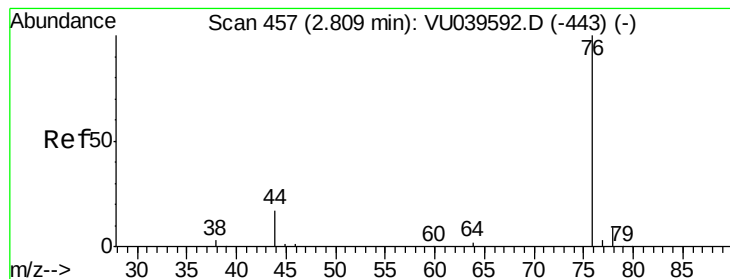
Acq: 21 Jul 2020 20:01

Tgt Ion: 43 Resp: 10907
Ion Ratio Lower Upper
43 100
58 30.6 0.0 59.0



Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0





#14

Carbon disulfide

Concen: 0.191 ug/L

RT: 2.81 min Scan# 457

Delta R.T. -0.00 min

Lab File: VU039609.D

Acq: 21 Jul 2020 20:01

Instrument :

MSVOA_U

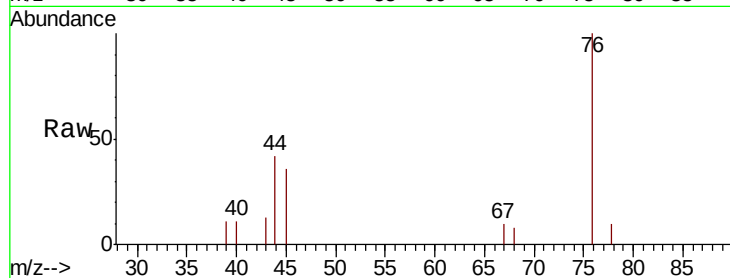
ClientSampleId :

Tot Ion: 76 Resp: 2862

Ion Ratio Lower Upper

76 100

78 10.2 7.2 10.8



Abundance Ion 76.05 (75.75 to 76.75): VU039592.D (-443) (-)

Ion 78.00 (77.70 to 78.70): VU039592.D (-443) (-)

2.81

1500

1000

500

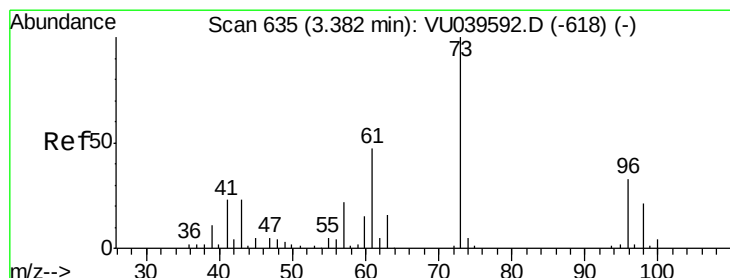
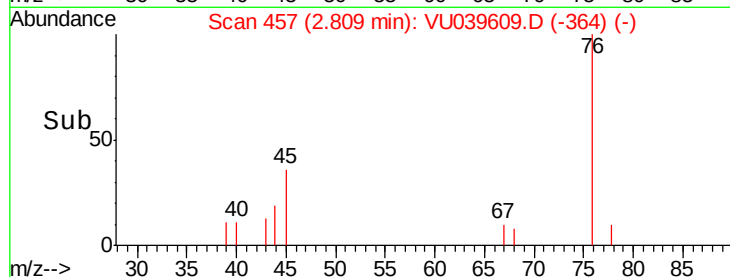
0

2.75

2.80

2.85

Time-->



#17

Methyl tert-butyl Ether

Concen: 0.514 ug/L

RT: 3.38 min Scan# 636

Delta R.T. 0.00 min

Lab File: VU039609.D

Acq: 21 Jul 2020 20:01

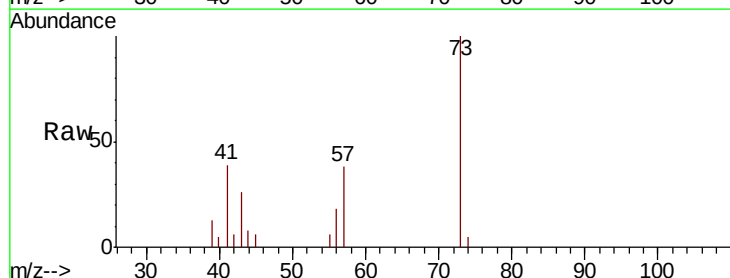
Tgt Ion: 73 Resp: 8127

Ion Ratio Lower Upper

73 100

43 26.9 18.2 27.4

57 35.9 17.9 26.9#



Abundance Ion 73.10 (72.80 to 73.80): VU039592.D (-618) (-)

Ion 43.05 (42.75 to 43.75): VU039592.D (-618) (-)

Ion 57.10 (56.80 to 57.80): VU039592.D (-618) (-)

3.38

5000

4000

3000

2000

1000

0

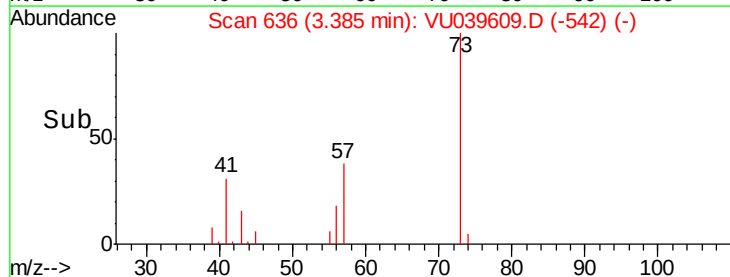
3.30

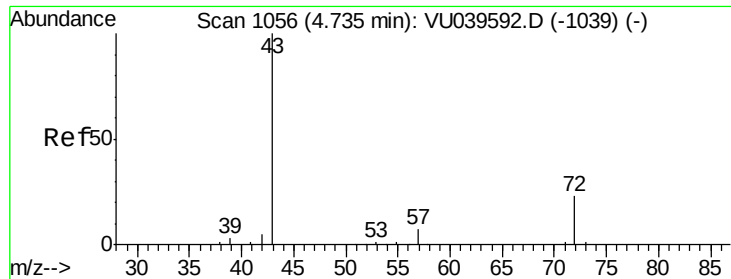
3.35

3.40

3.45

Time-->

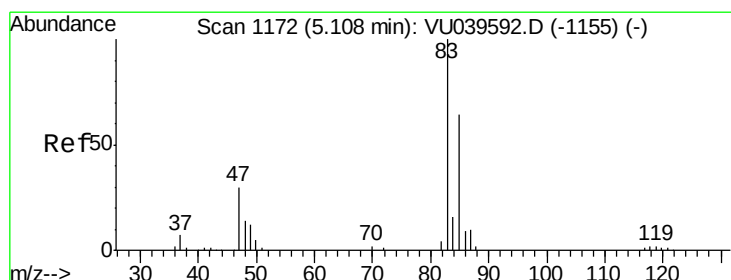
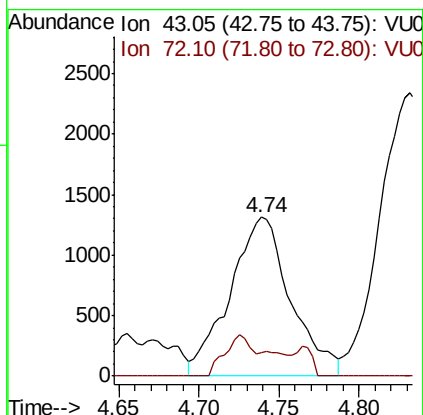
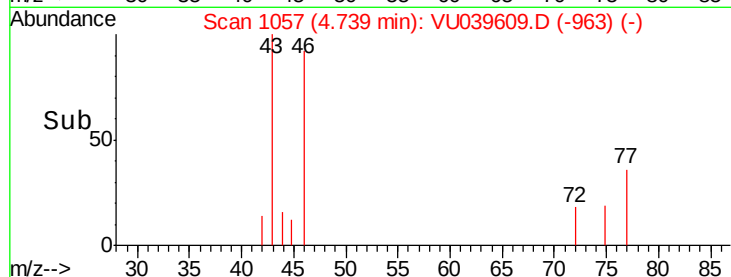
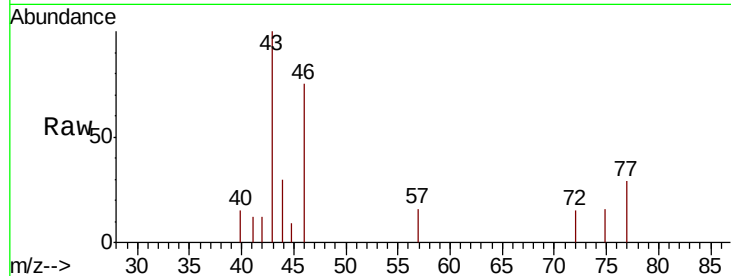




#21
2-Butanone
Concen: 1.618 ug/L
RT: 4.74 min Scan# 1057
Delta R.T. 0.00 min
Lab File: VU039609.D
Acq: 21 Jul 2020 20:01

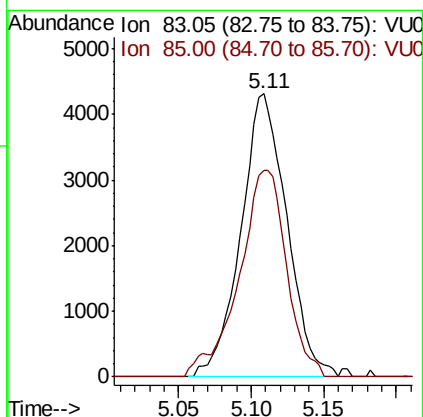
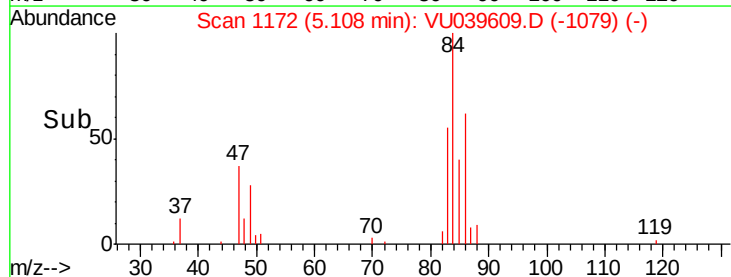
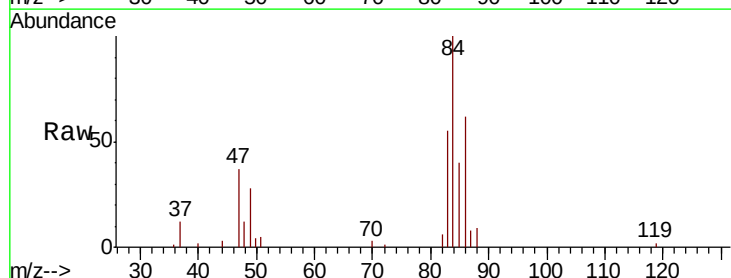
Instrument :
MSVOA_U
ClientSampled :

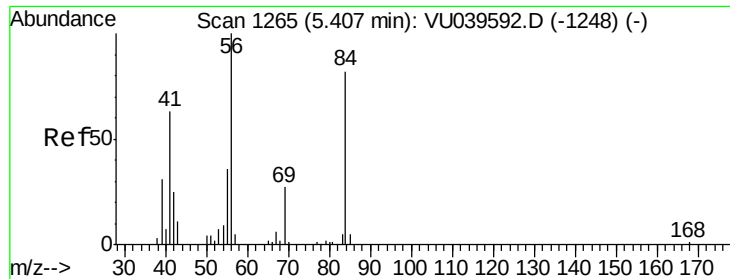
Tot Ion: 43 Resp: 3434
Ion Ratio Lower Upper
43 100
72 12.5 12.2 36.4



#25
Chloroform
Concen: 0.736 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. -0.00 min
Lab File: VU039609.D
Acq: 21 Jul 2020 20:01

Tgt Ion: 83 Resp: 9507
Ion Ratio Lower Upper
83 100
85 72.8 44.4 82.5

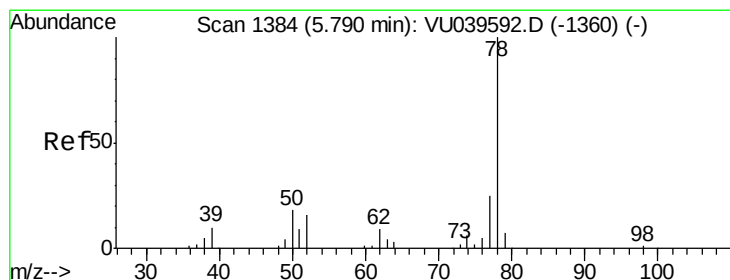
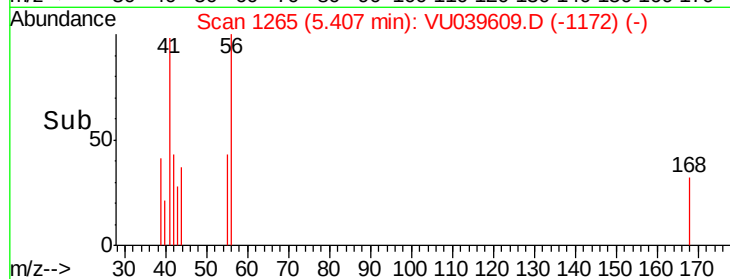
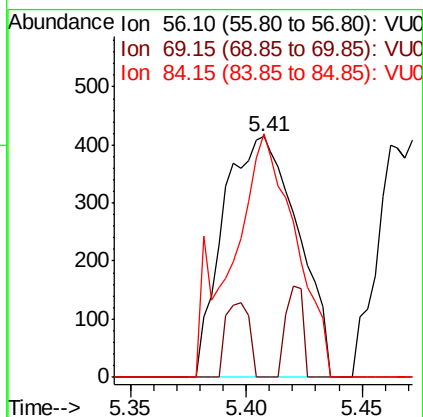
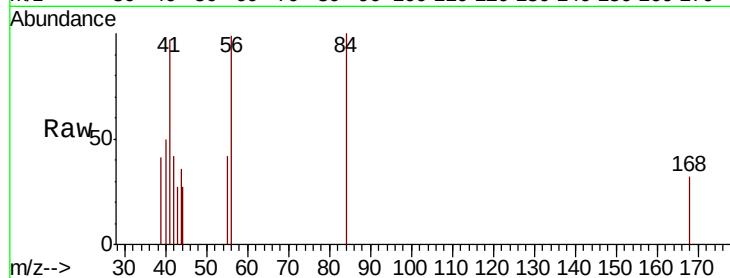




#30
Cyclohexane
Concen: 0.101 ug/L
RT: 5.41 min Scan# 1265
Delta R.T. -0.00 min
Lab File: VU039609.D
Acq: 21 Jul 2020 20:01

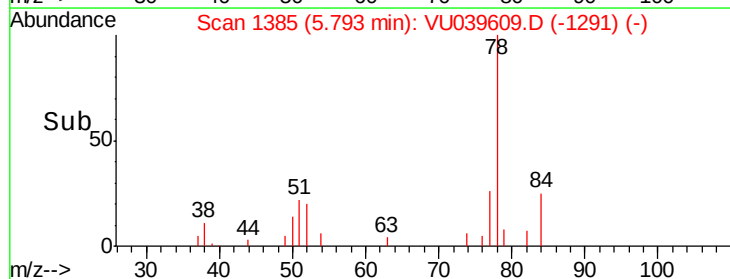
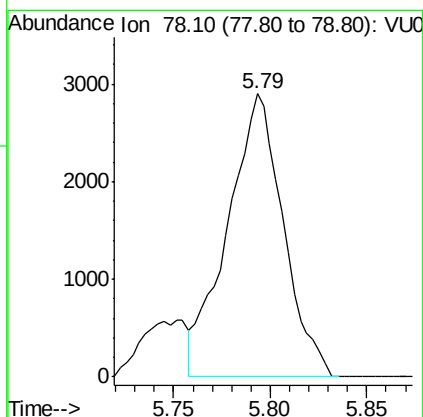
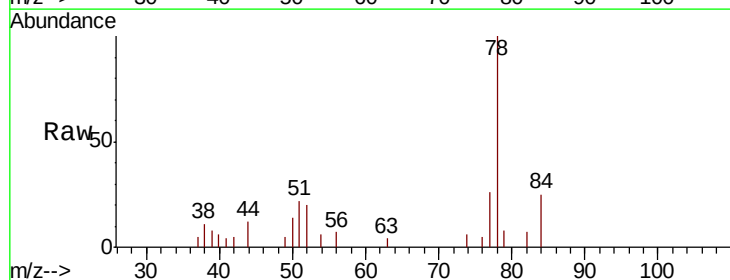
Instrument :
MSVOA_U
ClientSampleId :

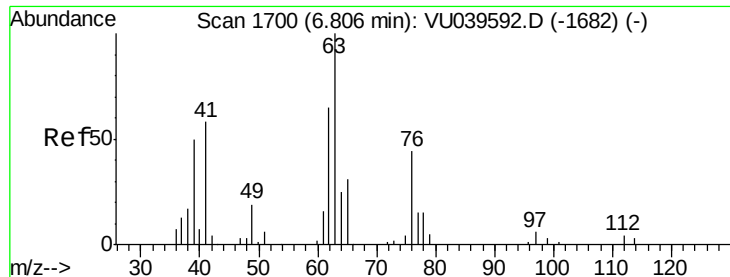
Tot Ion: 56 Resp: 924
Ion Ratio Lower Upper
56 100
69 9.7 24.0 36.0#
84 74.8 69.8 104.6



#33
Benzene
Concen: 0.245 ug/L
RT: 5.79 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VU039609.D
Acq: 21 Jul 2020 20:01

Tgt Ion: 78 Resp: 5805

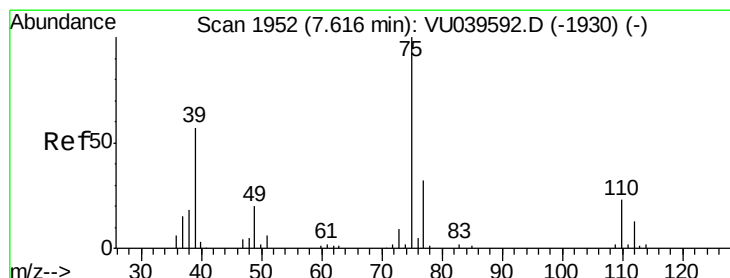
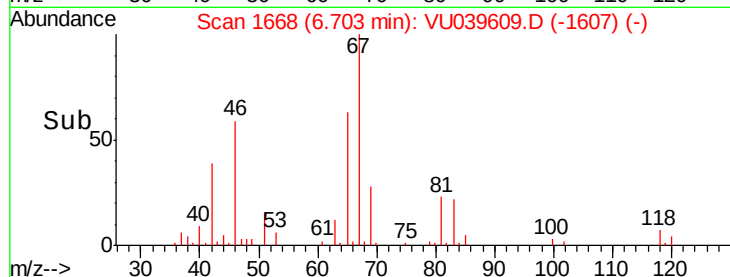
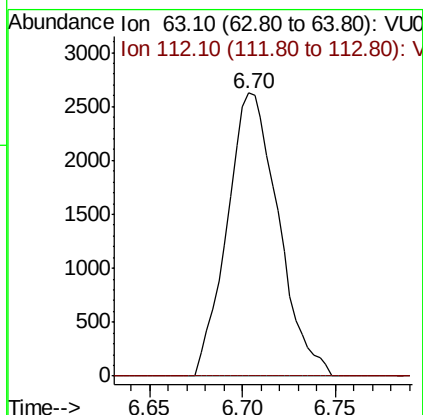
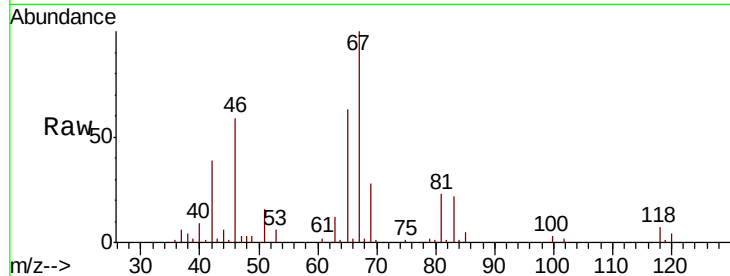




#37
 1,2-Dichloropropane
 Concen: 0.765 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU039609.D
 Acq: 21 Jul 2020 20:01

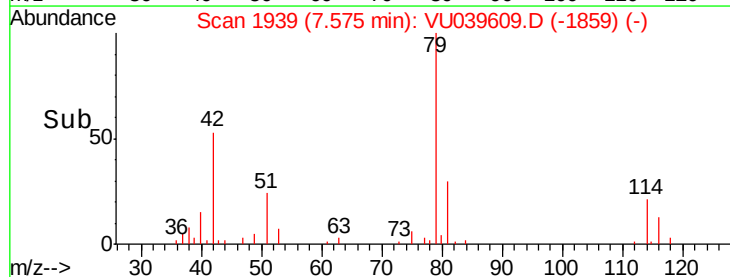
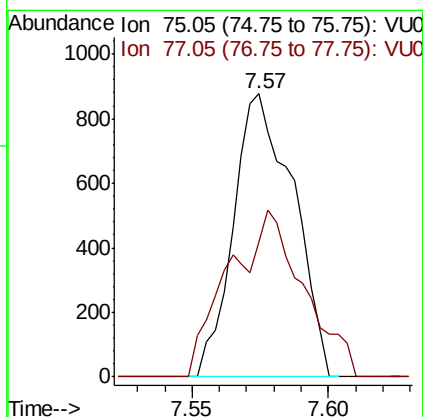
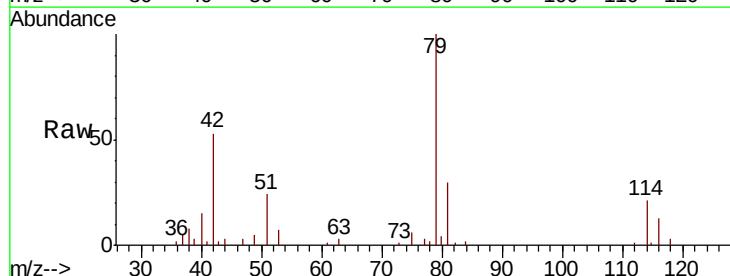
Instrument :
 MSVOA_U
 ClientSampleId :

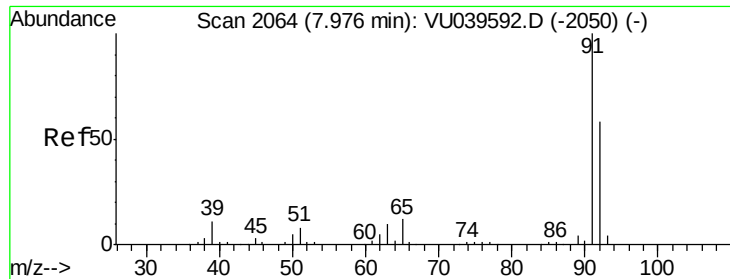
Tot Ion: 63 Resp: 5054
 Ion Ratio Lower Upper
 63 100
 112 0.0 2.7 4.1#



#39
 cis-1,3-Dichloropropene
 Concen: 0.142 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU039609.D
 Acq: 21 Jul 2020 20:01

Tgt Ion: 75 Resp: 1344
 Ion Ratio Lower Upper
 75 100
 77 47.5 23.2 43.0#





#42

Toluene

Concen: 0.637 ug/L

RT: 7.98 min Scan# 2065

Delta R.T. 0.00 min

Lab File: VU039609.D

Acq: 21 Jul 2020 20:01

Instrument :

MSVOA_U

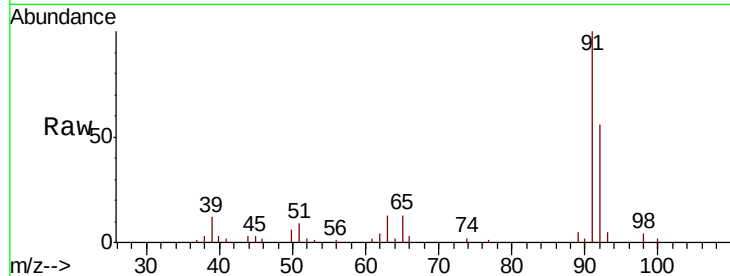
ClientSampleId :

Tot Ion: 91 Resp: 16552

Ion Ratio Lower Upper

91 100

92 55.6 38.6 71.6



Abundance Ion 91.15 (90.85 to 91.85): VU039592.D (-2050) (-)

Ion 92.15 (91.85 to 92.85): VU039592.D (-2050) (-)

7.98

10000

8000

6000

4000

2000

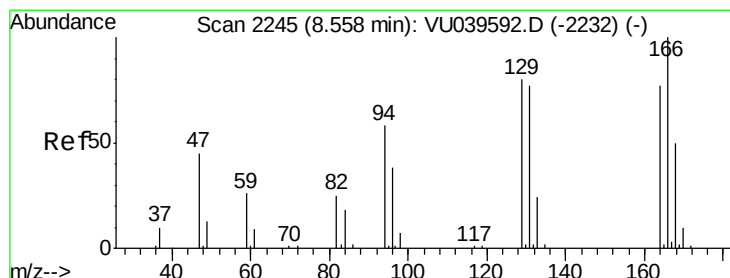
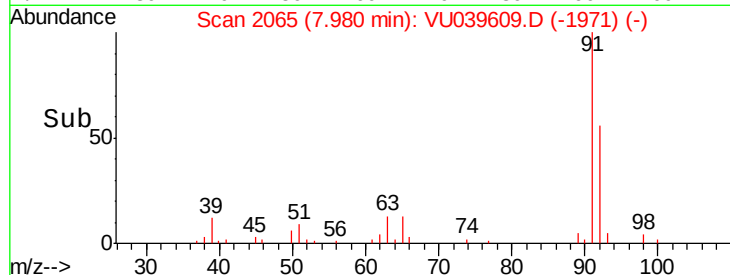
0

Time-->

7.90

7.95

8.00



#47

Tetrachloroethene

Concen: 0.163 ug/L

RT: 8.55 min Scan# 2243

Delta R.T. -0.01 min

Lab File: VU039609.D

Acq: 21 Jul 2020 20:01

Tgt Ion: 164 Resp: 728

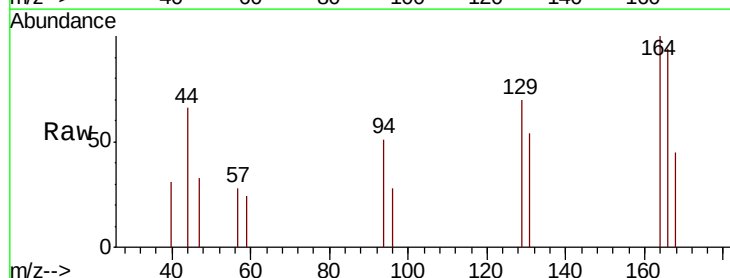
Ion Ratio Lower Upper

164 100

129 70.1 67.9 126.1

131 54.1 64.7 120.1#

166 93.6 85.1 158.1



Abundance Ion 163.90 (163.60 to 164.60): VU039592.D (-2232) (-)

Ion 128.95 (128.65 to 129.65): VU039592.D (-2232) (-)

Ion 130.95 (130.65 to 131.65): VU039592.D (-2232) (-)

Ion 165.90 (165.60 to 166.60): VU039592.D (-2232) (-)

800

600

400

200

0

Time-->

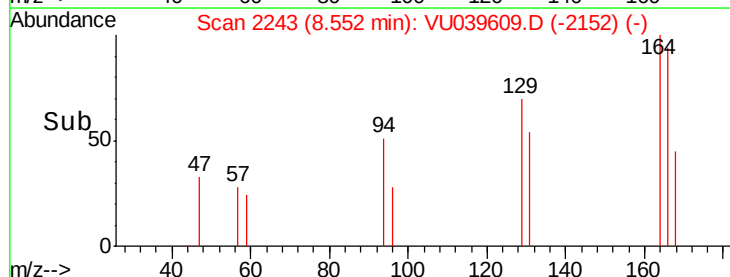
8.52

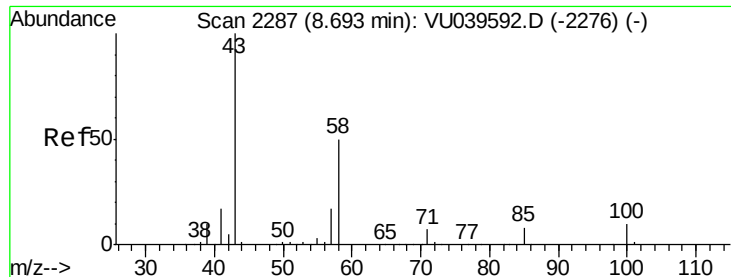
8.54

8.56

8.58

8.60

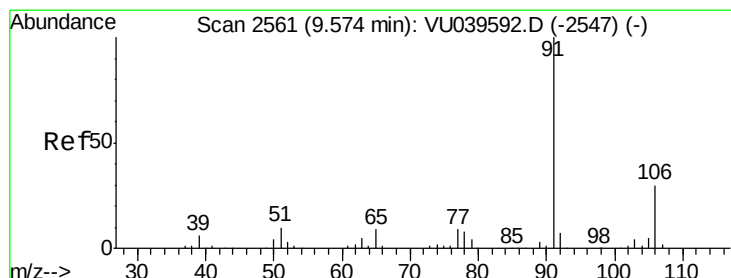
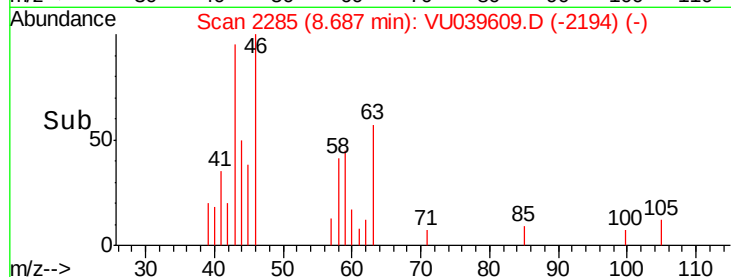
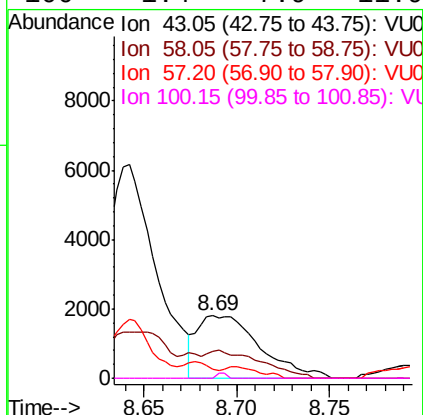
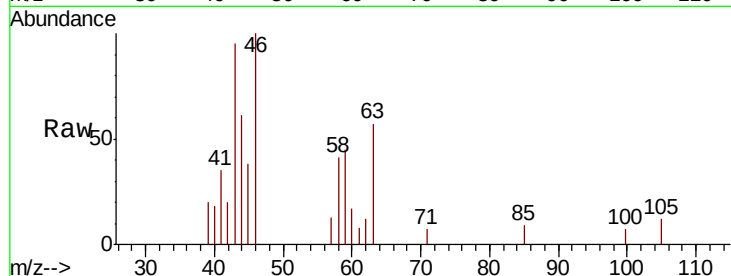




#48
2-Hexanone
Concen: 1.108 ug/L
RT: 8.69 min Scan# 2285
Delta R.T. -0.01 min
Lab File: VU039609.D
Acq: 21 Jul 2020 20:01

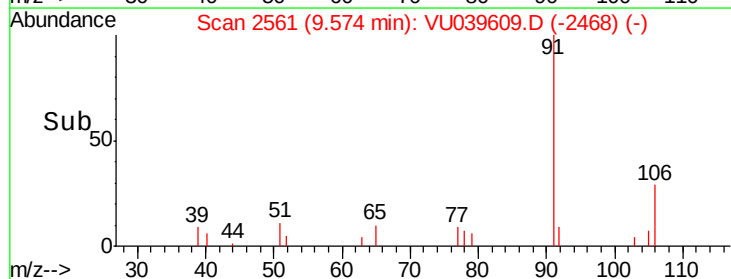
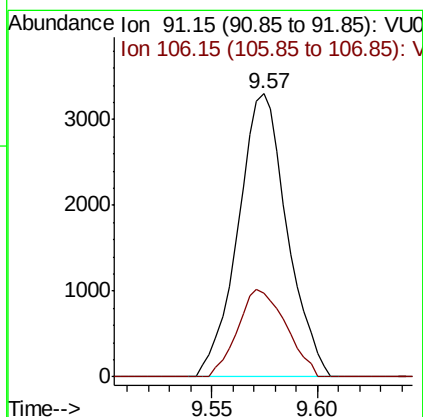
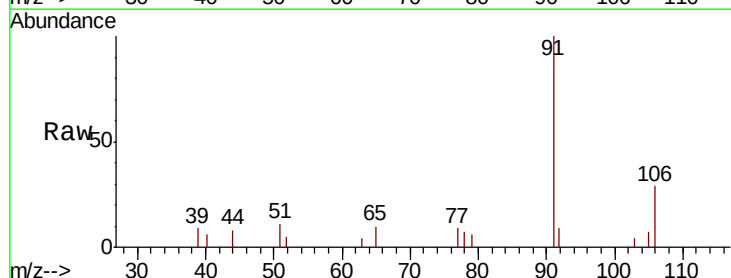
Instrument :
MSVOA_U
ClientSampleId :

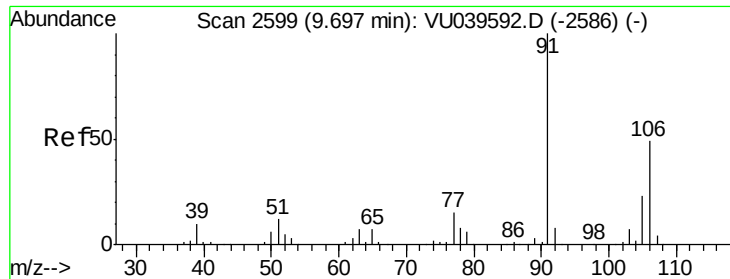
Tot Ion: 43 Resp: 4231
Ion Ratio Lower Upper
43 100
58 38.9 40.9 61.3#
57 10.1 14.6 21.8#
100 1.4 7.9 11.9#



#52
Ethylbenzene
Concen: 0.181 ug/L
RT: 9.57 min Scan# 2561
Delta R.T. -0.00 min
Lab File: VU039609.D
Acq: 21 Jul 2020 20:01

Tgt Ion: 91 Resp: 5338
Ion Ratio Lower Upper
91 100
106 29.5 21.3 39.6





#53

m,p-Xylene

Concen: 0.413 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU039609.D

Acq: 21 Jul 2020 20:01

Instrument :

MSVOA_U

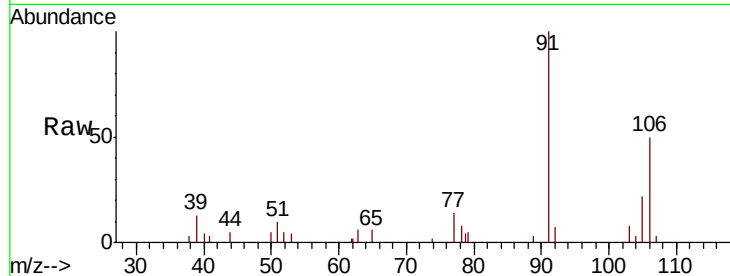
ClientSampled :

Tot Ion:106 Resp: 4560

Ion Ratio Lower Upper

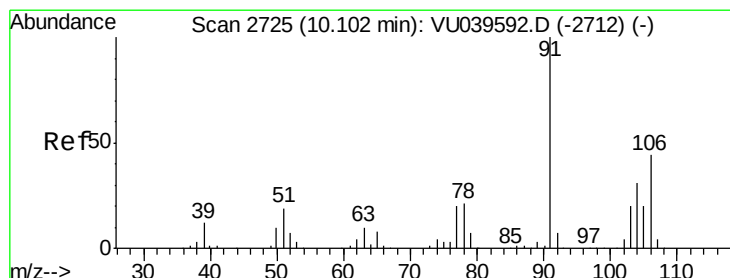
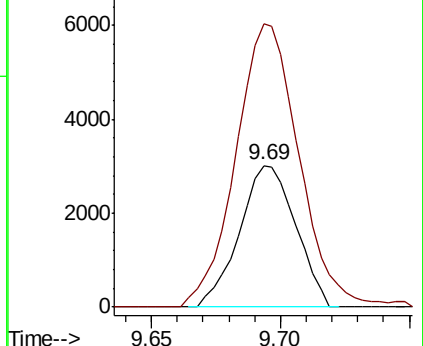
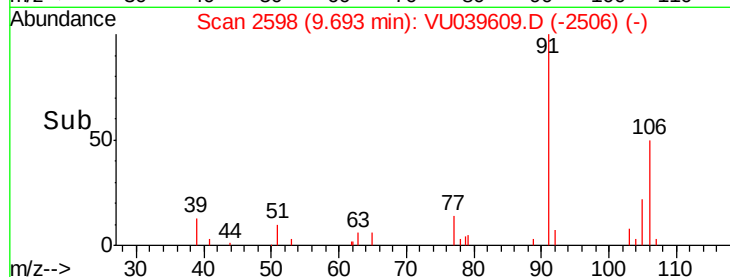
106 100

91 199.9 149.3 277.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.447 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. -0.00 min

Lab File: VU039609.D

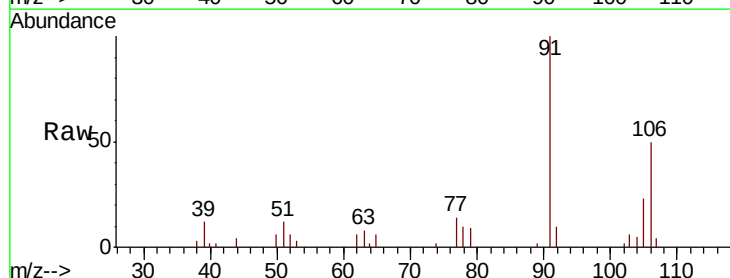
Acq: 21 Jul 2020 20:01

Tgt Ion:106 Resp: 4811

Ion Ratio Lower Upper

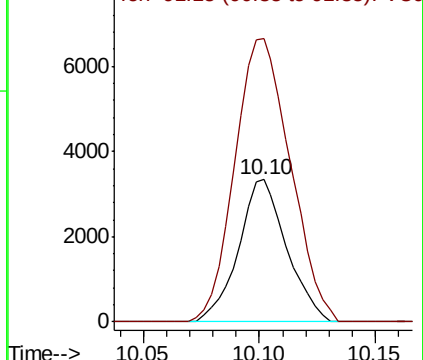
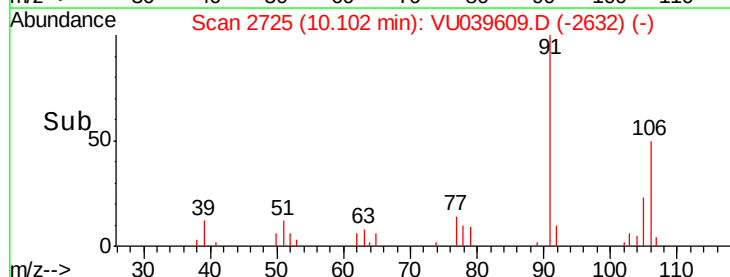
106 100

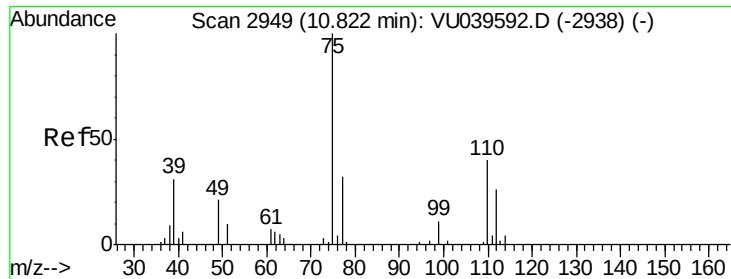
91 199.3 157.4 292.4



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#59

1,2,3-Trichloropropane

Concen: 1.364 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU039609.D

Acq: 21 Jul 2020 20:01

Instrument :

MSVOA_U

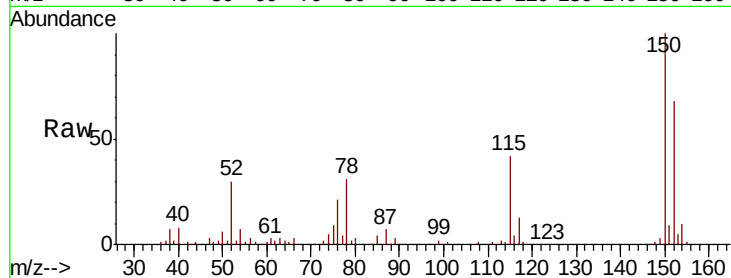
ClientSampled :

Tot Ion: 75 Resp: 6612

Ion Ratio Lower Upper

75 100

77 39.4 25.5 38.3#



Abundance Ion 75.00 (74.70 to 75.70): VU039592.D (-2938) (-)

Ion 77.00 (76.70 to 77.70): VU039592.D (-2938) (-)

11.81

4000

3000

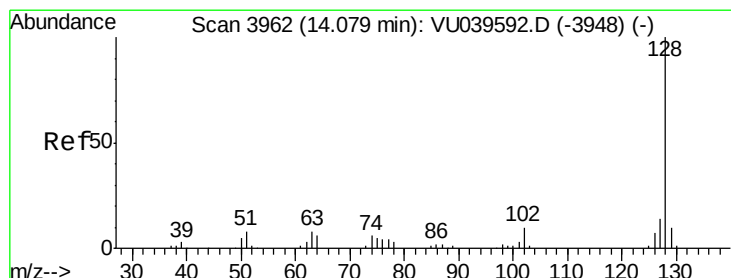
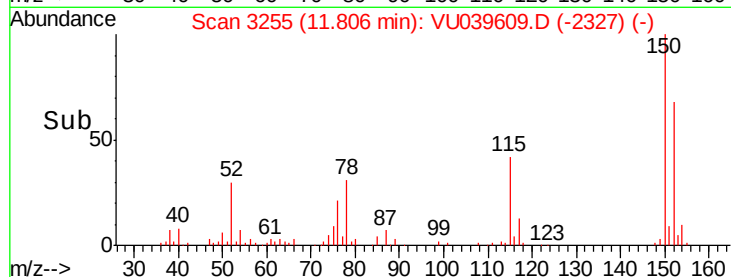
2000

1000

0

11.75 11.80 11.85

Time-->



#69

Naphthalene

Concen: 0.135 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. -0.00 min

Lab File: VU039609.D

Acq: 21 Jul 2020 20:01

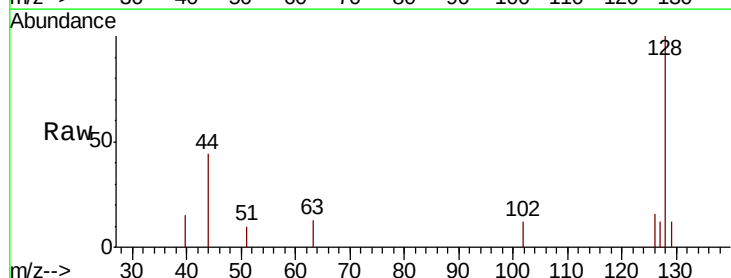
Tgt Ion: 128 Resp: 1687

Ion Ratio Lower Upper

128 100

129 5.2 8.6 12.8#

127 6.0 10.6 16.0#



Abundance Ion 128.00 (127.70 to 128.70): VU039592.D (-3948) (-)

Ion 129.00 (128.70 to 129.70): VU039592.D (-3948) (-)

Ion 127.00 (126.70 to 127.70): VU039592.D (-3948) (-)

14.08

1500

1000

500

0

14.05 14.10

Time-->

