

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072120\
 Data File : VU039604.D
 Acq On : 21 Jul 2020 18:05
 Operator : SY/MD
 Sample : L3348-11
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 22 02:06:50 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	108086	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	100180	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	45668	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	30656	6.11	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	122.20%
7) Chloroethane-d5	1.92	69	32572	5.95	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	119.00%
11) 1,1-Dichloroethene-d2	2.58	63	47567	4.22	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	84.40%
20) 2-Butanone-d5	4.65	46	107318	47.42	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	94.84%
24) Chloroform-d	5.09	84	60102	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.40%
26) 1,2-Dichloroethane-d4	5.72	65	40136	4.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.60%
32) Benzene-d6	5.75	84	122840	5.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.00%
36) 1,2-Dichloropropane-d6	6.71	67	40002	5.05	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.00%
41) Toluene-d8	7.91	98	111240	4.87	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.40%
43) trans-1,3-Dichloropropene-	8.19	79	15144	4.39	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.80%
46) 2-Hexanone-d5	8.64	63	81570	48.40	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.80%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	32821	4.46	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	89.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	41724	5.08	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.60%

Target Compounds

					Ovalue
3) Chloromethane	1.59	50	14244	2.481 ug/L #	80
12) 1,1-Dichloroethene	2.57	96	373	0.073 ug/L #	1
13) Acetone	2.65	43	8560	6.797 ug/L	94
14) Carbon disulfide	2.81	76	2484	0.162 ug/L #	76
15) Methyl Acetate	2.98	43	4592	1.493 ug/L #	56
16) Methylene chloride	3.06	84	3024	0.409 ug/L	92
21) 2-Butanone	4.74	43	4017	1.841 ug/L	94
25) Chloroform	5.11	83	10681	0.805 ug/L	99
30) Cyclohexane	5.40	56	1454	0.156 ug/L	86
33) Benzene	5.79	78	7937	0.330 ug/L	100
35) Methylcyclohexane	6.78	83	1636	0.168 ug/L #	81
37) 1,2-Dichloropropane	6.71	63	4934	0.736 ug/L #	90
39) cis-1,3-Dichloropropene	7.58	75	1244	0.129 ug/L #	53
42) Toluene	7.98	91	17409	0.661 ug/L	96
48) 2-Hexanone	8.69	43	4684	1.210 ug/L #	87
52) Ethylbenzene	9.57	91	10349	0.345 ug/L	95
53) m,p-Xylene	9.69	106	2837	0.254 ug/L	83

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ClientSampleId :

Quant Time: Jul 22 02:06:50 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

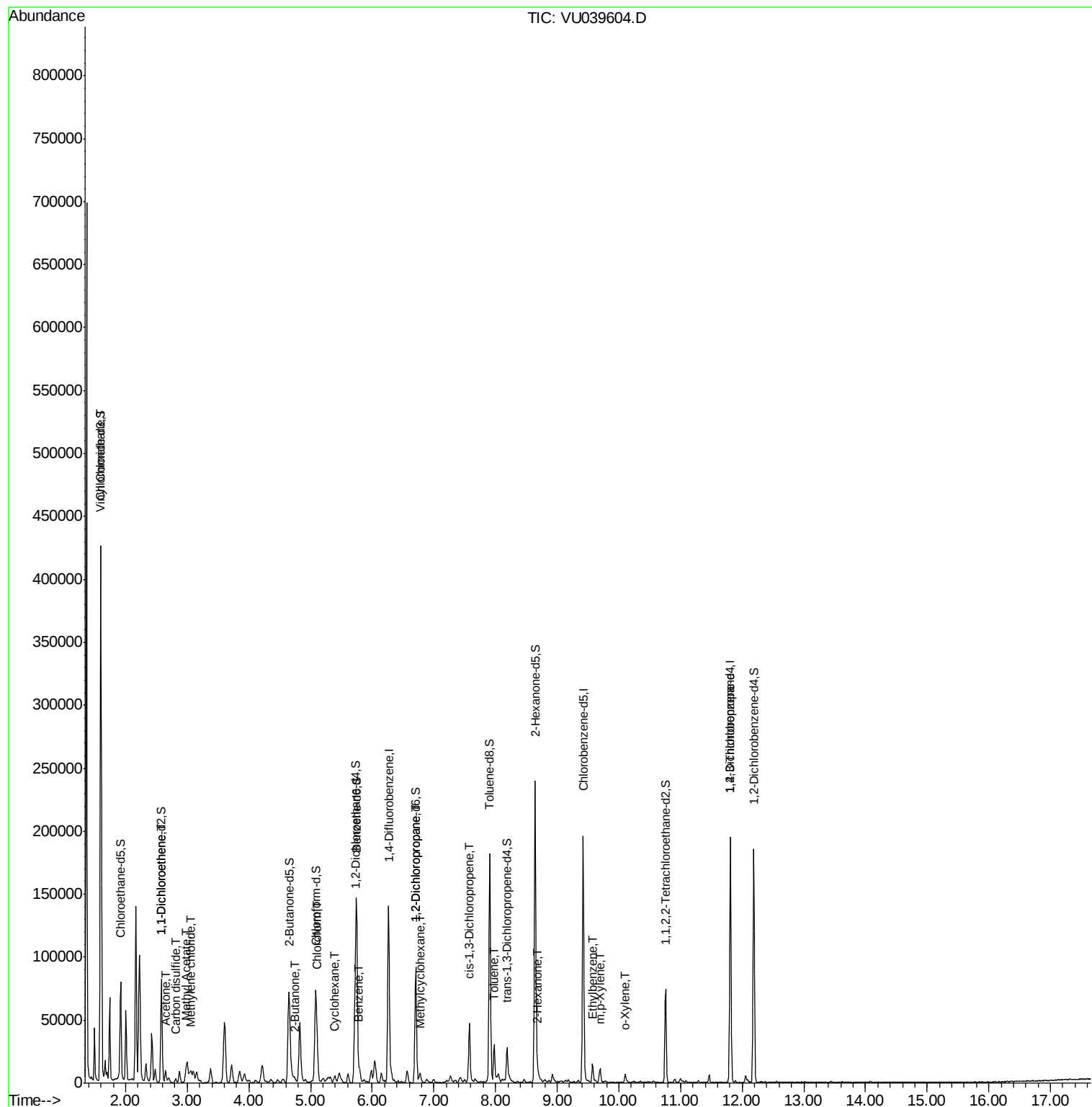
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.10	106	1526	0.140	ug/L	90
59) 1,2,3-Trichloropropane	11.81	75	7483	1.523	ug/L	97

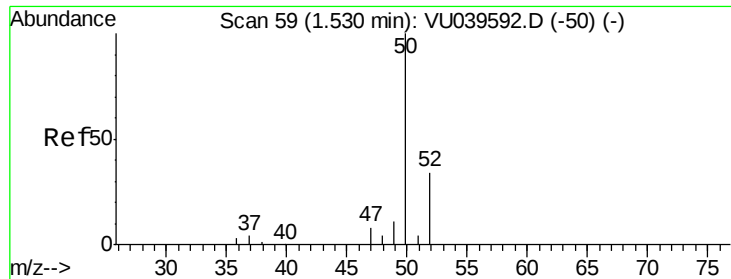
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 2.481 ug/L

RT: 1.59 min Scan# 79

Delta R.T. 0.06 min

Lab File: VU039604.D

Acq: 21 Jul 2020 18:05

Instrument :

MSVOA_U

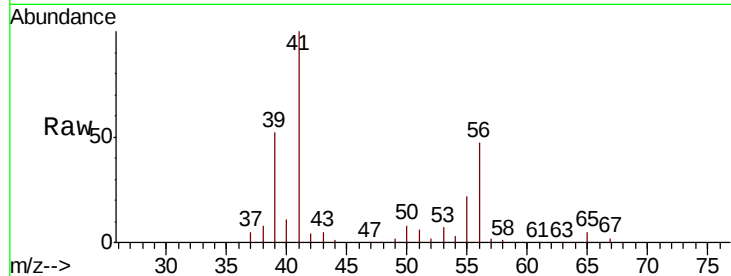
ClientSampled :

Tot Ion: 50 Resp: 14244

Ion Ratio Lower Upper

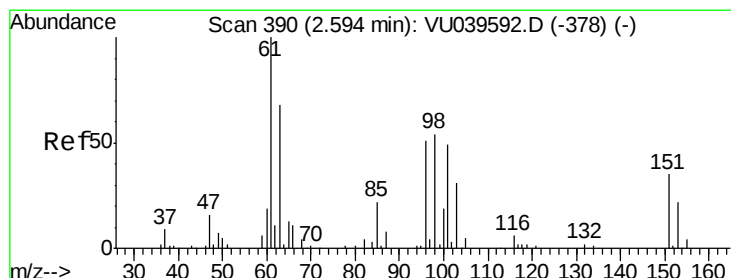
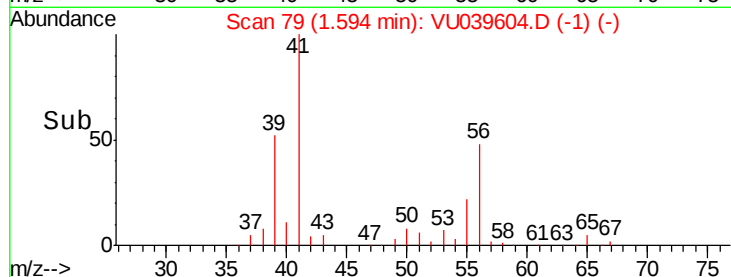
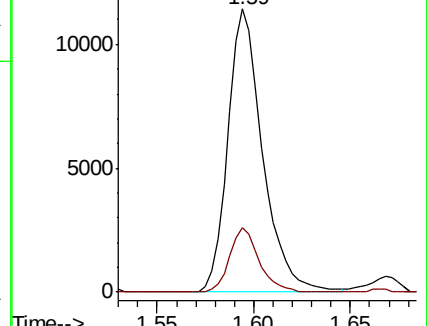
50 100

52 22.6 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: 0.073 ug/L

RT: 2.57 min Scan# 384

Delta R.T. -0.02 min

Lab File: VU039604.D

Acq: 21 Jul 2020 18:05

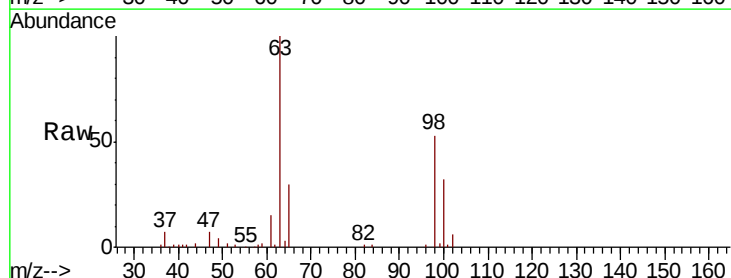
Tgt Ion: 96 Resp: 373

Ion Ratio Lower Upper

96 100

61 1359.8 129.1 239.7#

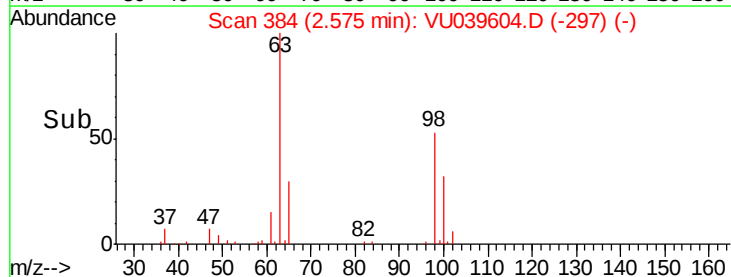
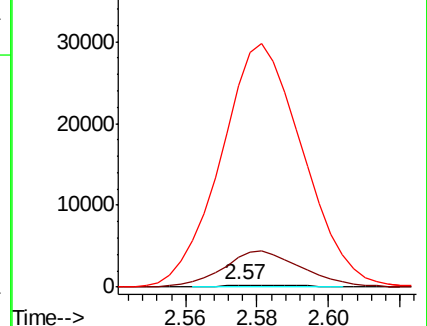
63 9236.1 89.7 166.7#

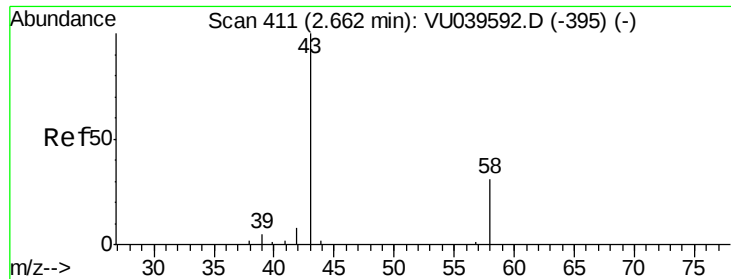


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 6.797 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.01 min

Lab File: VU039604.D

Acq: 21 Jul 2020 18:05

Instrument :

MSVOA_U

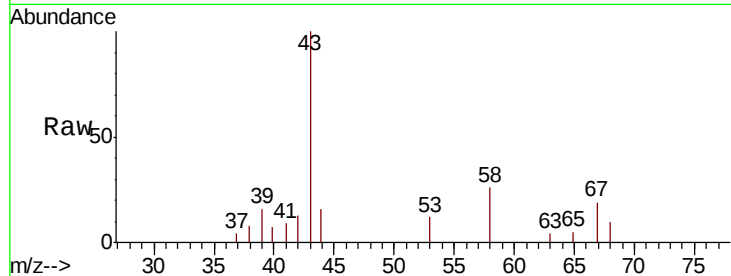
ClientSampleId :

Tot Ion: 43 Resp: 8560

Ion Ratio Lower Upper

43 100

58 26.3 0.0 59.0



Abundance Ion 43.05 (42.75 to 43.75): VU039592.D (-395) (-)

Ion 58.05 (57.75 to 58.75): VU039592.D (-395) (-)

2.65

4000

3000

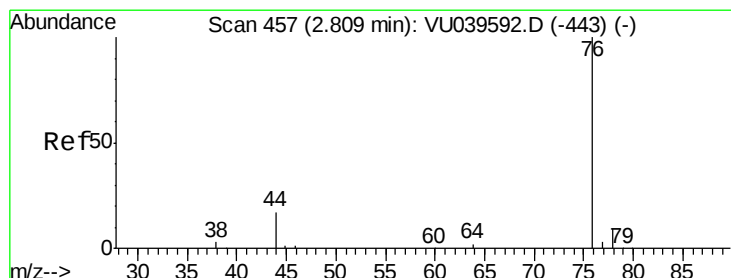
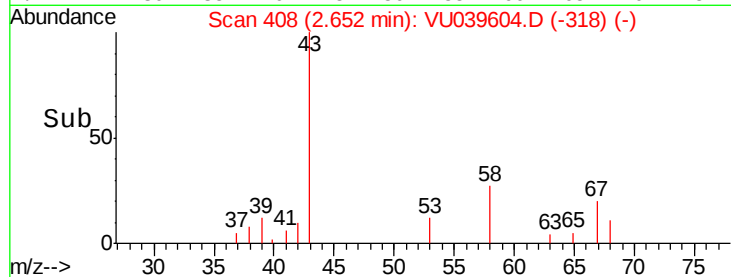
2000

1000

0

Time-->

2.55 2.60 2.65 2.70 2.75



#14

Carbon disulfide

Concen: 0.162 ug/L

RT: 2.81 min Scan# 458

Delta R.T. 0.00 min

Lab File: VU039604.D

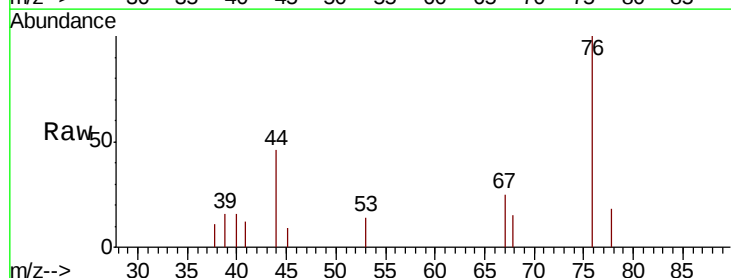
Acq: 21 Jul 2020 18:05

Tgt Ion: 76 Resp: 2484

Ion Ratio Lower Upper

76 100

78 17.8 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

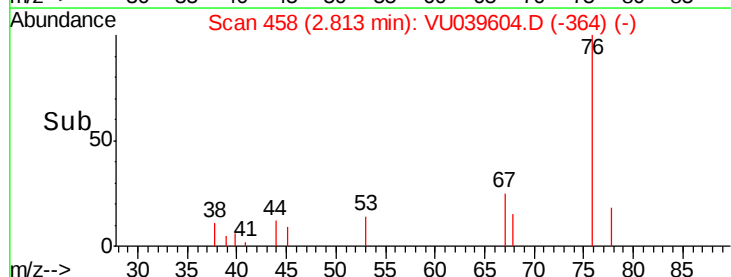
1000

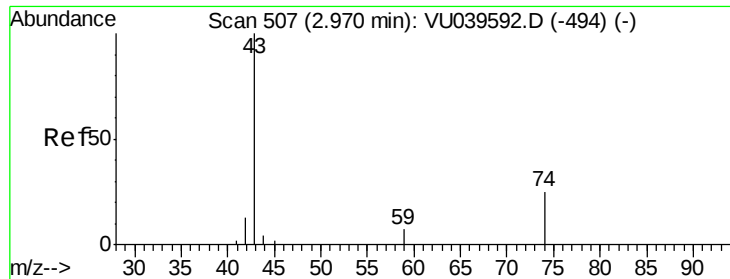
500

0

Time-->

2.75 2.80 2.85





#15

Methyl Acetate

Concen: 1.493 ug/L

RT: 2.98 min Scan# 509

Delta R.T. 0.01 min

Lab File: VU039604.D

Acq: 21 Jul 2020 18:05

Instrument :

MSVOA_U

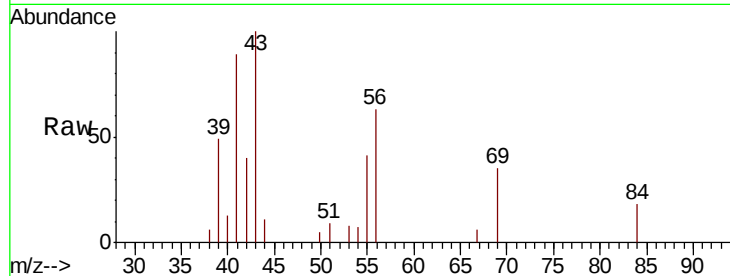
ClientSampled :

Tot Ion: 43 Resp: 4592

Ion Ratio Lower Upper

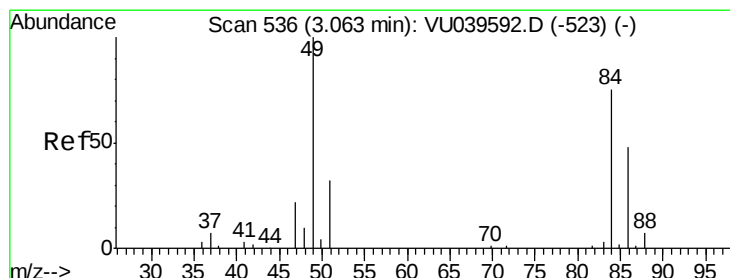
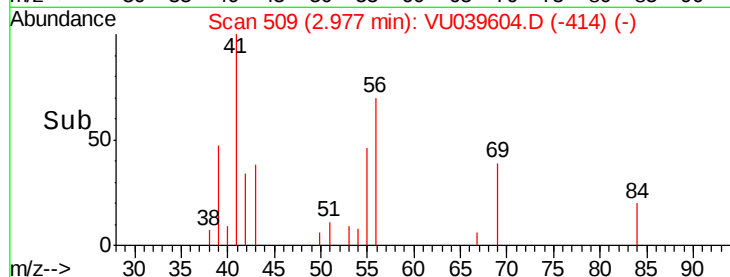
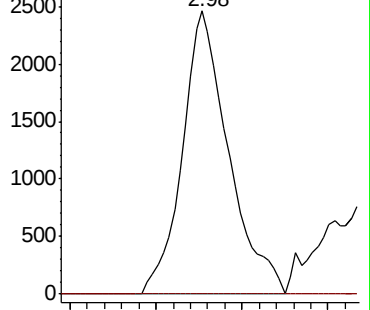
43 100

74 0.0 16.6 24.8#



Abundance Ion 43.05 (42.75 to 43.75): VU039592.D (-494) (-)

Ion 74.05 (73.75 to 74.75): VU039592.D (-494) (-)



#16

Methylene chloride

Concen: 0.409 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.00 min

Lab File: VU039604.D

Acq: 21 Jul 2020 18:05

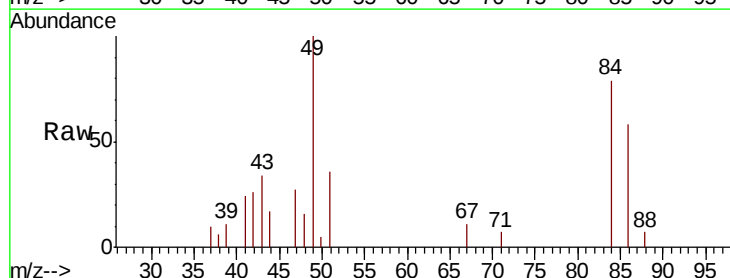
Tgt Ion: 84 Resp: 3024

Ion Ratio Lower Upper

84 100

86 74.1 43.8 81.4

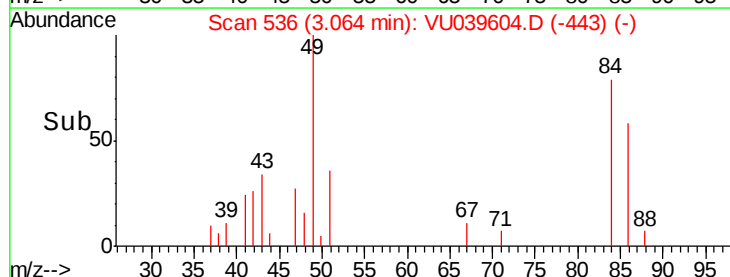
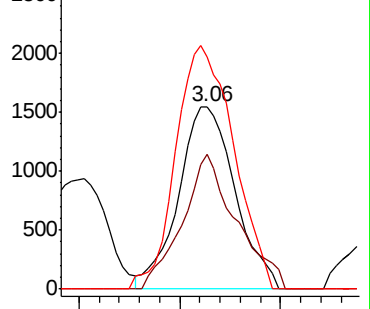
49 126.8 92.7 172.3

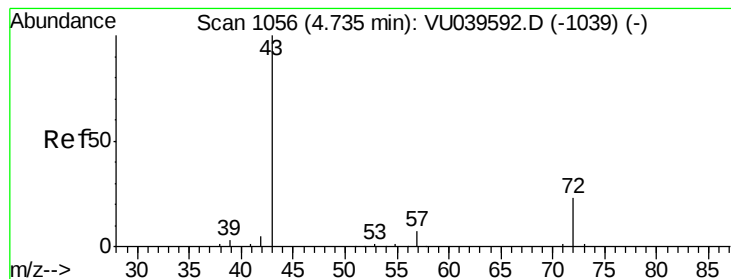


Abundance Ion 84.05 (83.75 to 84.75): VU039592.D (-523) (-)

Ion 86.00 (85.70 to 86.70): VU039592.D (-523) (-)

Ion 49.10 (48.80 to 49.80): VU039592.D (-523) (-)





#21

2-Butanone

Concen: 1.841 ug/L

RT: 4.74 min Scan# 1057

Delta R.T. 0.00 min

Lab File: VU039604.D

Acq: 21 Jul 2020 18:05

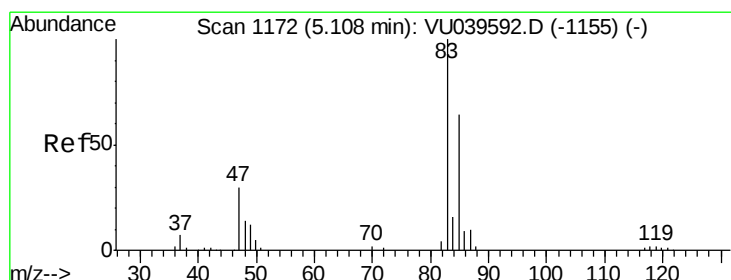
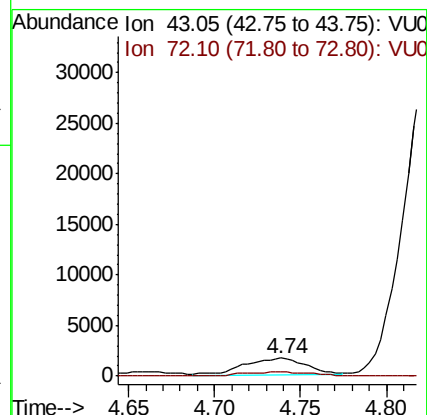
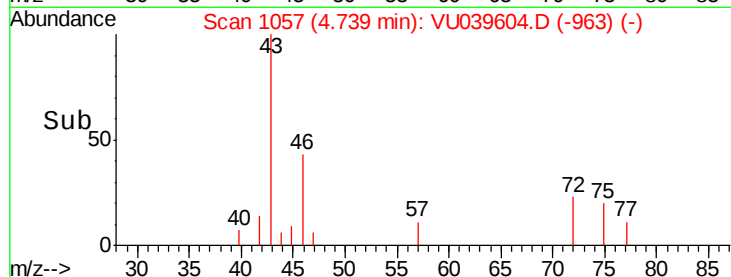
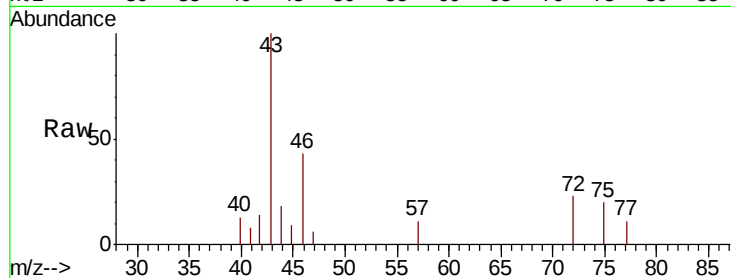
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 4017

Ion Ratio Lower Upper

43 100

72 27.2 12.2 36.4



#25

Chloroform

Concen: 0.805 ug/L

RT: 5.11 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VU039604.D

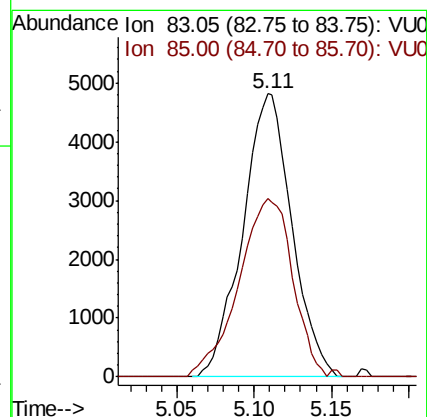
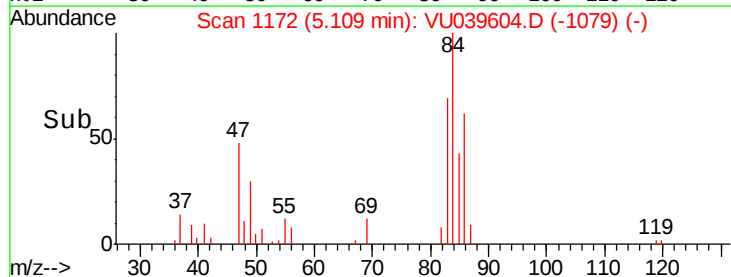
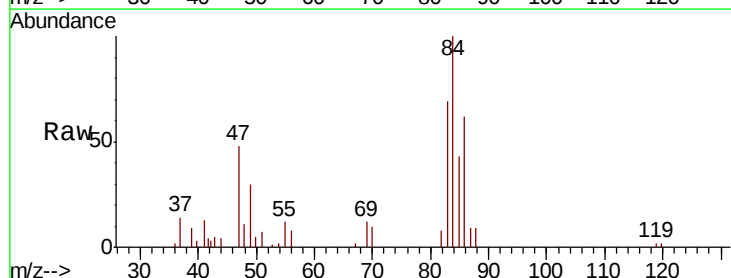
Acq: 21 Jul 2020 18:05

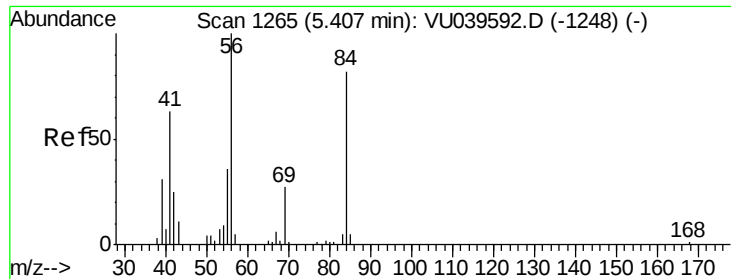
Tgt Ion: 83 Resp: 10681

Ion Ratio Lower Upper

83 100

85 62.9 44.4 82.5

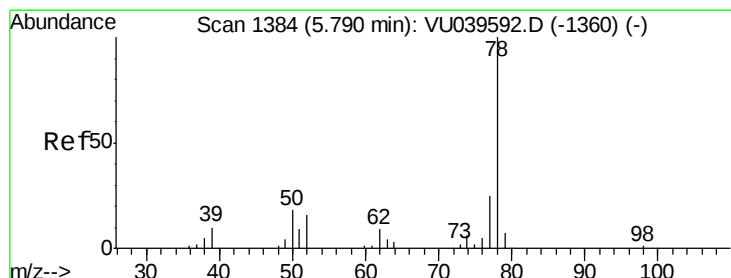
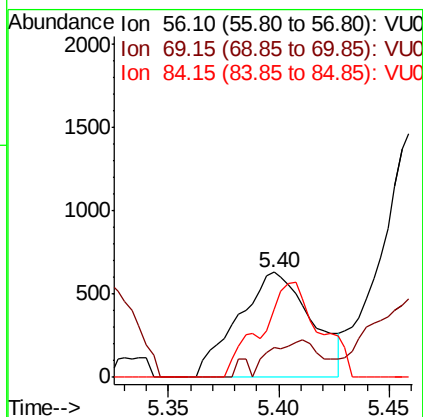
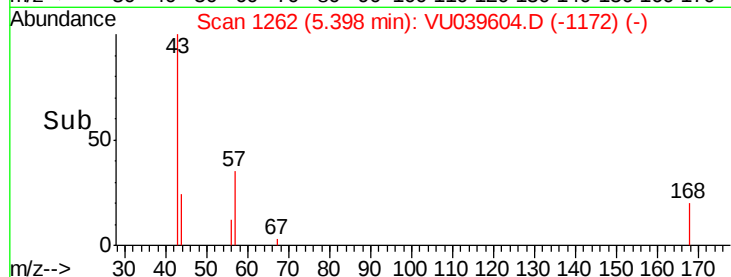
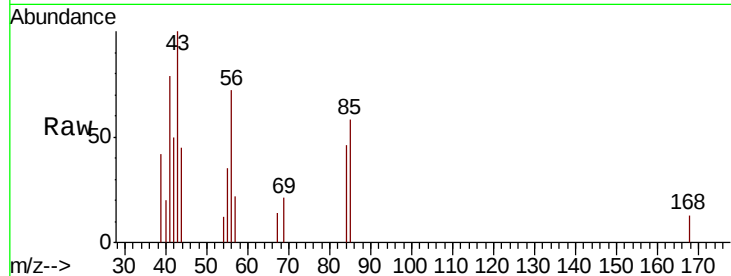




#30
Cyclohexane
Concen: 0.156 ug/L
RT: 5.40 min Scan# 1262
Delta R.T. -0.01 min
Lab File: VU039604.D
Acq: 21 Jul 2020 18:05

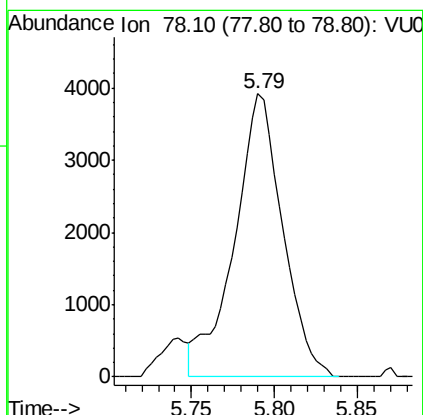
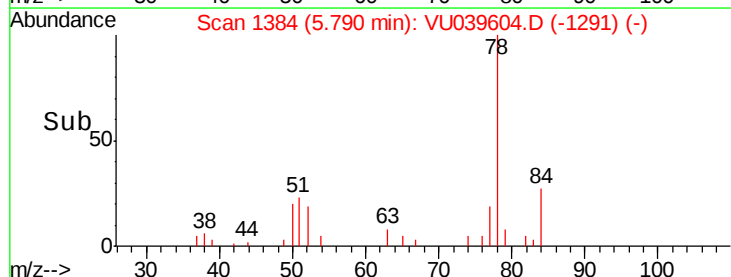
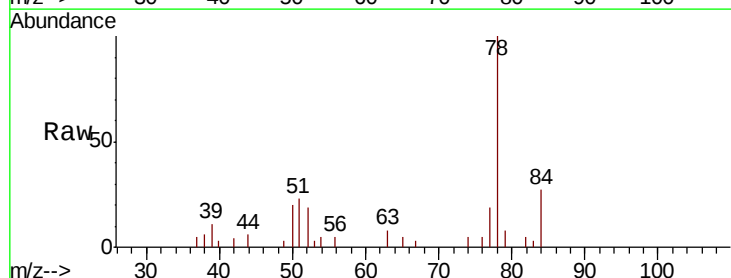
Instrument :
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ClientSampleId :

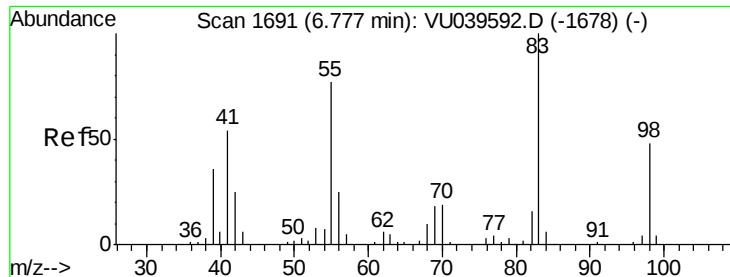
Tot Ion: 56 Resp: 1454
Ion Ratio Lower Upper
56 100
69 25.4 24.0 36.0
84 72.0 69.8 104.6



#33
Benzene
Concen: 0.330 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. 0.00 min
Lab File: VU039604.D
Acq: 21 Jul 2020 18:05

Tgt Ion: 78 Resp: 7937

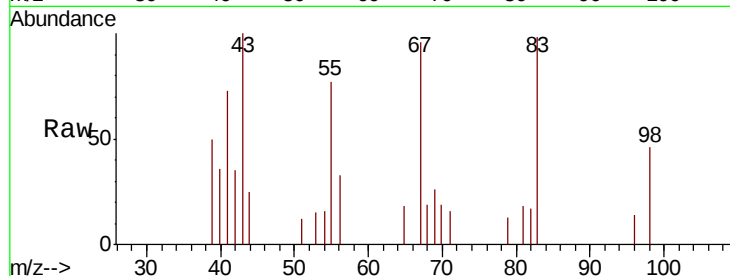




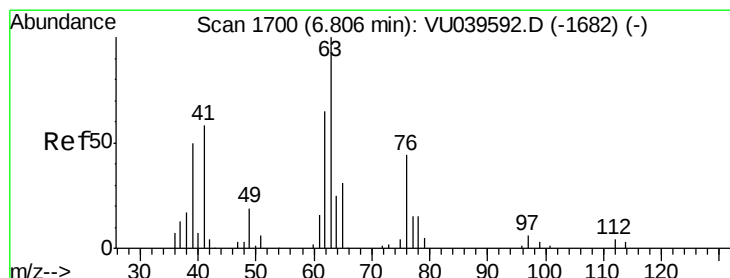
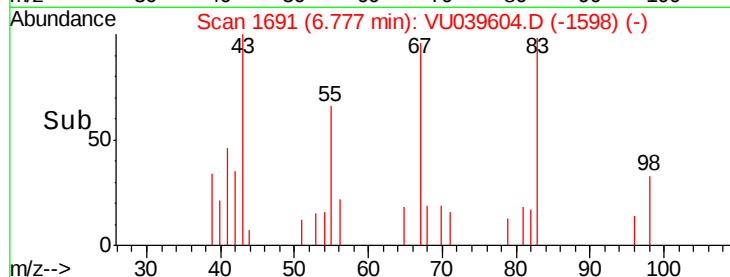
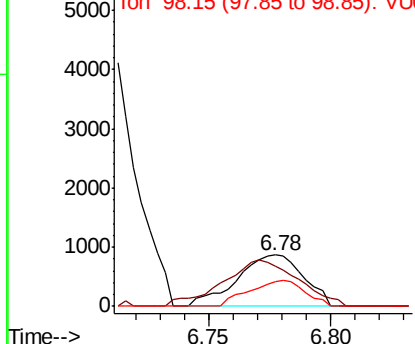
#35
Methylcyclohexane
Concen: 0.168 ug/L
RT: 6.78 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VU039604.D
Acq: 21 Jul 2020 18:05

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 83 Resp: 1636
Ion Ratio Lower Upper
83 100
55 102.7 63.0 94.6#
98 42.3 35.3 52.9

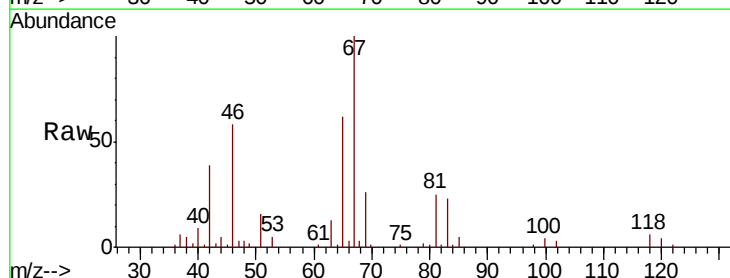


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

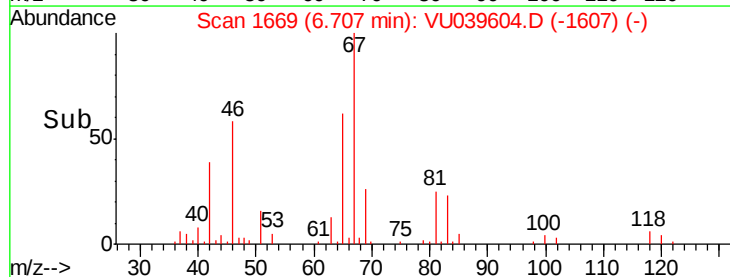
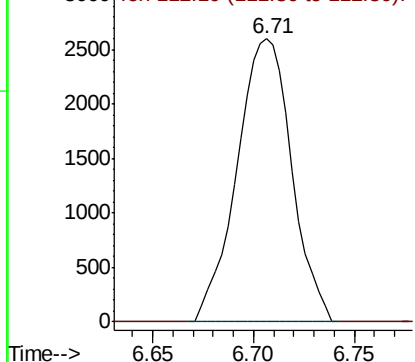


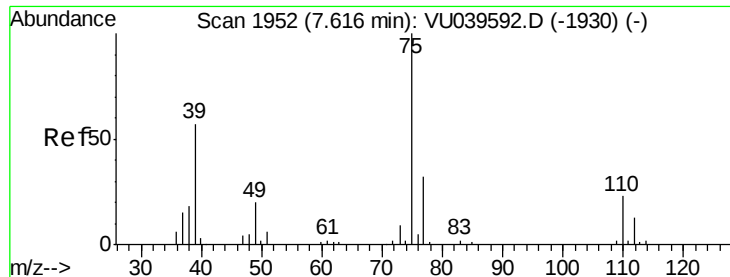
#37
1,2-Dichloropropane
Concen: 0.736 ug/L
RT: 6.71 min Scan# 1669
Delta R.T. -0.10 min
Lab File: VU039604.D
Acq: 21 Jul 2020 18:05

Tgt Ion: 63 Resp: 4934
Ion Ratio Lower Upper
63 100
112 0.0 2.7 4.1#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V

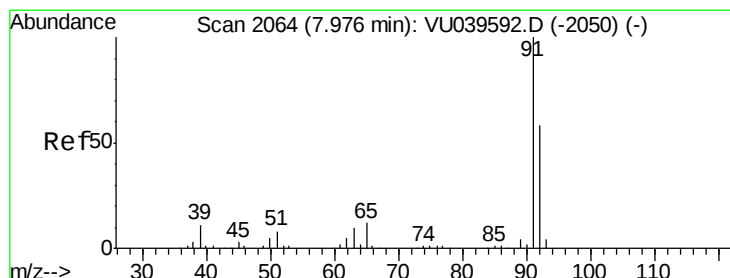
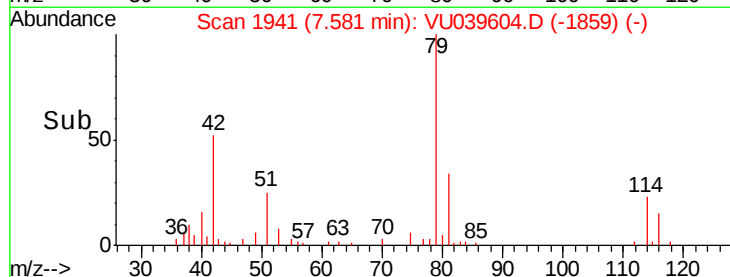
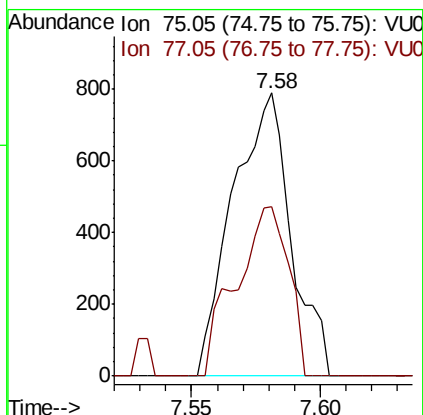
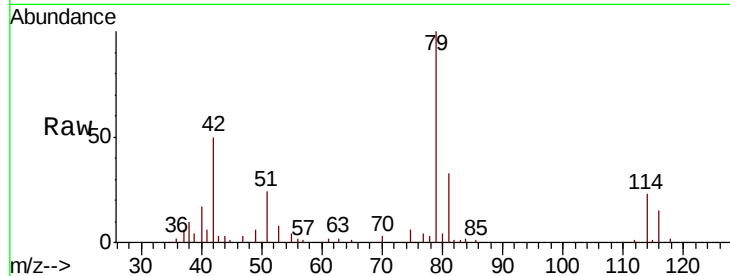




#39
 cis-1,3-Dichloropropene
 Concen: 0.129 ug/L
 RT: 7.58 min Scan# 1941
 Delta R.T. -0.04 min
 Lab File: VU039604.D
 Acq: 21 Jul 2020 18:05

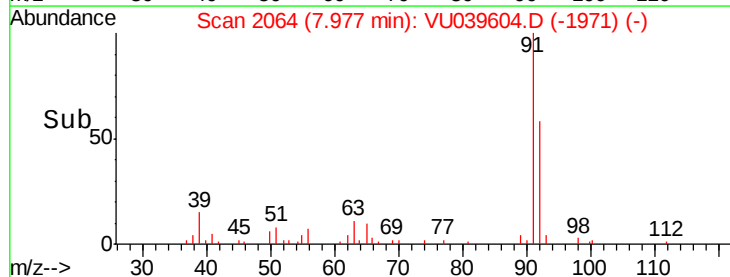
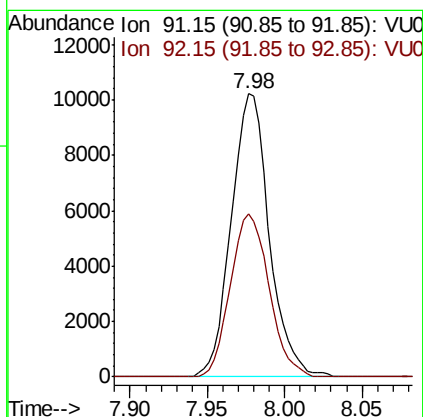
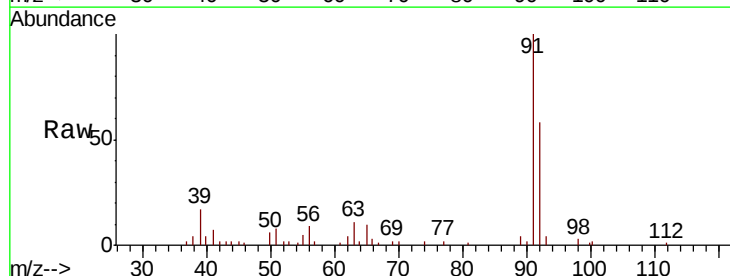
Instrument :
 MSVOA_U
 ClientSampleId :

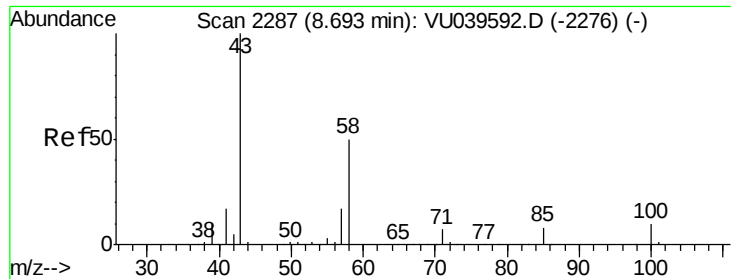
Tot Ion: 75 Resp: 1244
 Ion Ratio Lower Upper
 75 100
 77 59.9 23.2 43.0#



#42
 Toluene
 Concen: 0.661 ug/L
 RT: 7.98 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VU039604.D
 Acq: 21 Jul 2020 18:05

Tgt Ion: 91 Resp: 17409
 Ion Ratio Lower Upper
 91 100
 92 57.7 38.6 71.6

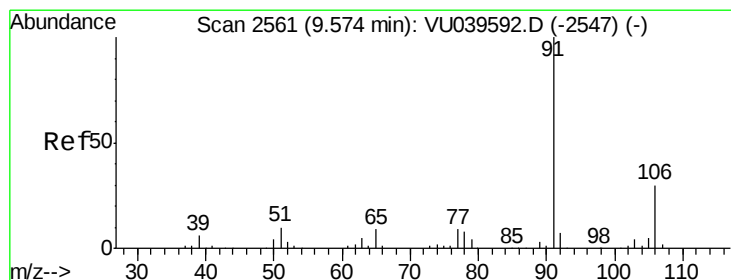
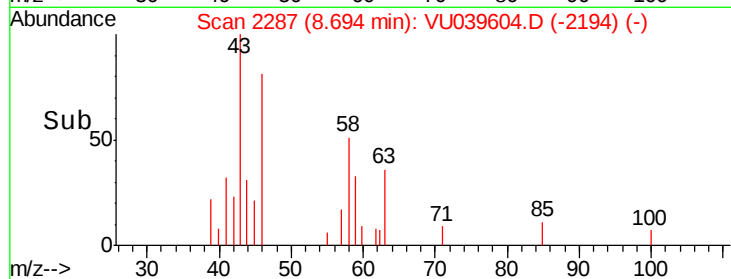
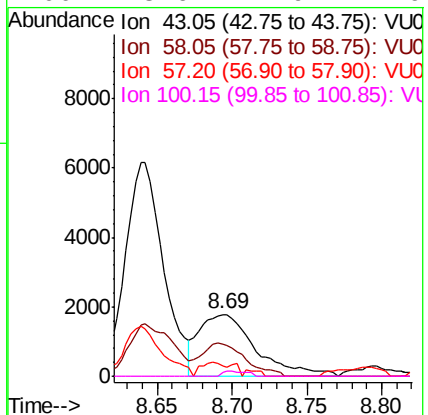
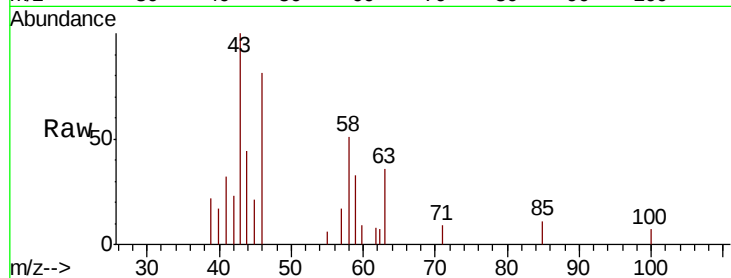




#48
2-Hexanone
Concen: 1.210 ug/L
RT: 8.69 min Scan# 2287
Delta R.T. 0.00 min
Lab File: VU039604.D
Acq: 21 Jul 2020 18:05

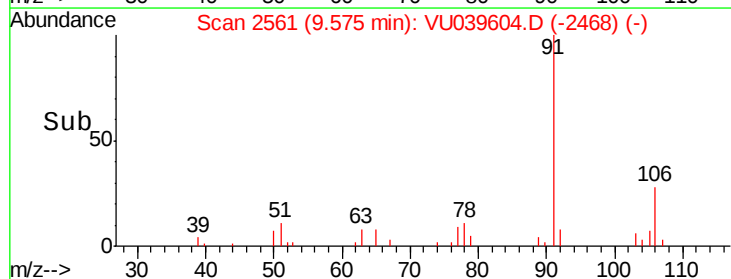
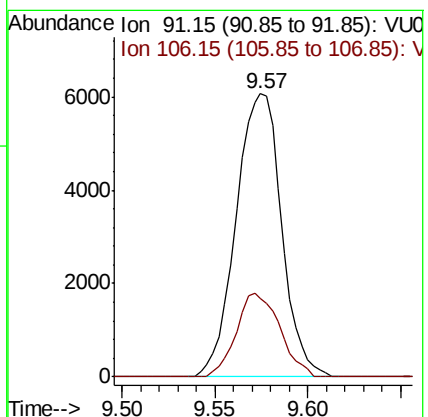
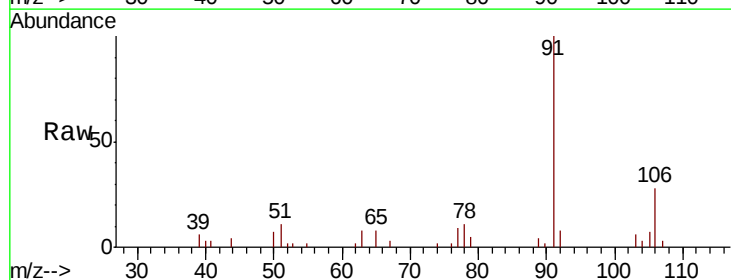
Instrument :
MSVOA_U
ClientSampled :

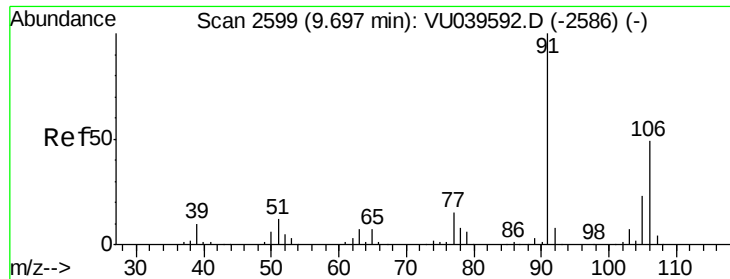
Tot Ion: 43 Resp: 4684
Ion Ratio Lower Upper
43 100
58 42.3 40.9 61.3
57 12.3 14.6 21.8#
100 3.6 7.9 11.9#



#52
Ethylbenzene
Concen: 0.345 ug/L
RT: 9.57 min Scan# 2561
Delta R.T. 0.00 min
Lab File: VU039604.D
Acq: 21 Jul 2020 18:05

Tgt Ion: 91 Resp: 10349
Ion Ratio Lower Upper
91 100
106 27.8 21.3 39.6





#53

m,p-Xylene

Concen: 0.254 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU039604.D

Acq: 21 Jul 2020 18:05

Instrument :

MSVOA_U

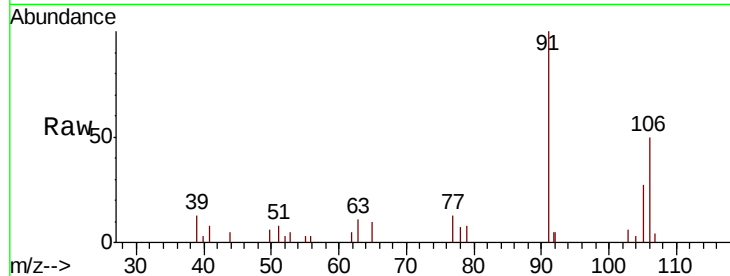
ClientSampled :

Tot Ion:106 Resp: 2837

Ion Ratio Lower Upper

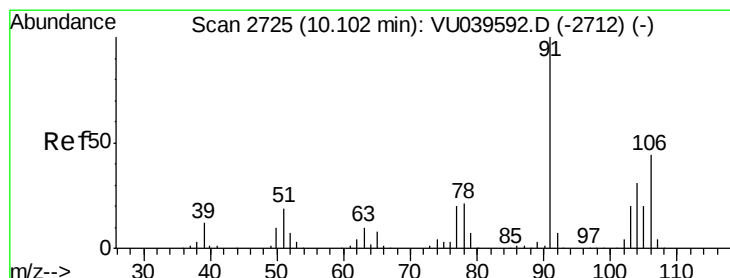
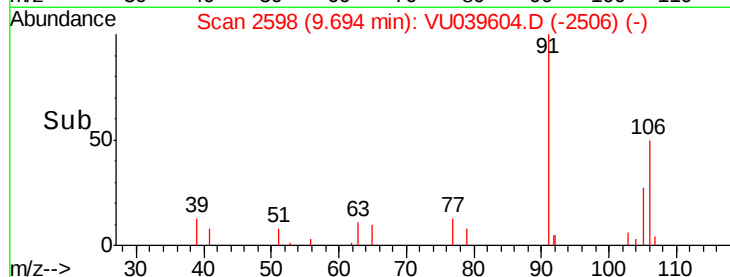
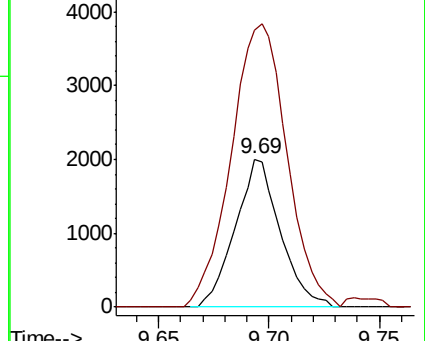
106 100

91 187.1 149.3 277.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.140 ug/L

RT: 10.10 min Scan# 2724

Delta R.T. -0.00 min

Lab File: VU039604.D

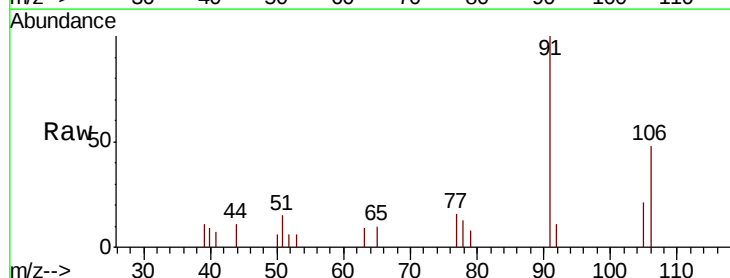
Acq: 21 Jul 2020 18:05

Tgt Ion:106 Resp: 1526

Ion Ratio Lower Upper

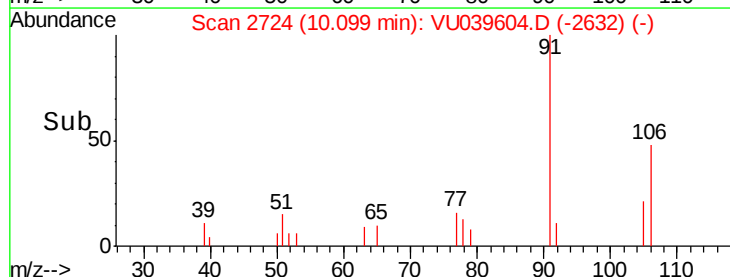
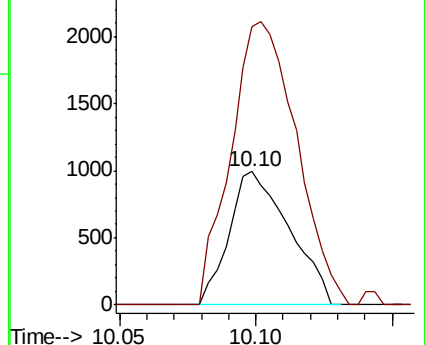
106 100

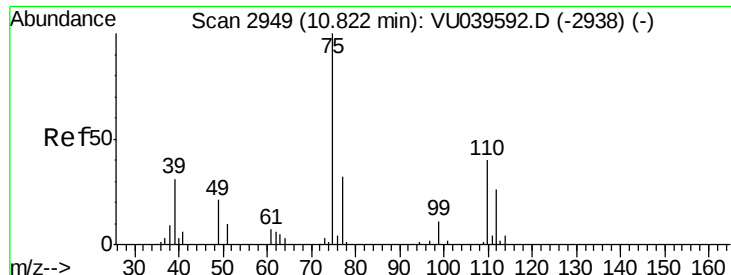
91 209.1 157.4 292.4



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: 1.523 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU039604.D

Acq: 21 Jul 2020 18:05

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 75 Resp: 7483

Ion Ratio Lower Upper

75 100

77 33.5 25.5 38.3

