

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111920\
 Data File : VU041341.D
 Acq On : 19 Nov 2020 14:19
 Operator : SY/MD
 Sample : L4790-04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 H4390

Quant Time: Nov 20 06:25:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Nov 20 05:56:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	75038	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	75354	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	35853	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	17500	3.17	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	63.40%
7) Chloroethane-d5	1.92	69	17188	3.64	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	72.80%
11) 1,1-Dichloroethene-d2	2.58	63	31181	2.73	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	54.60%#
20) 2-Butanone-d5	4.66	46	78422	34.46	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	68.92%
24) Chloroform-d	5.08	84	48660	4.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.40%
26) 1,2-Dichloroethane-d4	5.72	65	29543	3.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.80%
32) Benzene-d6	5.74	84	84819	4.18	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.60%
36) 1,2-Dichloropropane-d6	6.70	67	29455	4.21	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	84.20%
41) Toluene-d8	7.90	98	72052	3.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.40%
43) trans-1,3-Dichloropropene-	8.19	79	11763	3.90	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	78.00%
46) 2-Hexanone-d5	8.64	63	57789	35.91	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	71.82%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	25024	3.68	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	73.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	31449	4.50	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.61	62	24143	3.706	ug/L #	1
8) Chloroethane	1.94	64	3477	0.804	ug/L #	56
13) Acetone	2.67	43	9208	6.099	ug/L	96
14) Carbon disulfide	2.81	76	5570	0.387	ug/L	98
15) Methyl Acetate	2.98	43	1590	0.507	ug/L #	55
17) Methyl tert-butyl Ether	3.38	73	1187	0.089	ug/L #	68
18) trans-1,2-Dichloroethene	3.37	96	19080	4.011	ug/L	97
19) 1,1-Dichloroethane	3.88	63	2924	0.275	ug/L	96
21) 2-Butanone	4.74	43	7122	3.107	ug/L	90
22) cis-1,2-Dichloroethene	4.68	96	19265	3.586	ug/L	97
33) Benzene	5.79	78	27444	1.344	ug/L	100
34) Trichloroethene	6.55	95	2021	0.366	ug/L	86
42) Toluene	7.97	91	56723	2.599	ug/L	99
48) 2-Hexanone	8.69	43	2645	0.717	ug/L #	77
51) Chlorobenzene	9.45	112	921	0.064	ug/L	85
52) Ethylbenzene	9.57	91	13094	0.562	ug/L	95
53) m,p-Xylene	9.69	106	11394	1.353	ug/L	91

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Response via : Initial Calibration

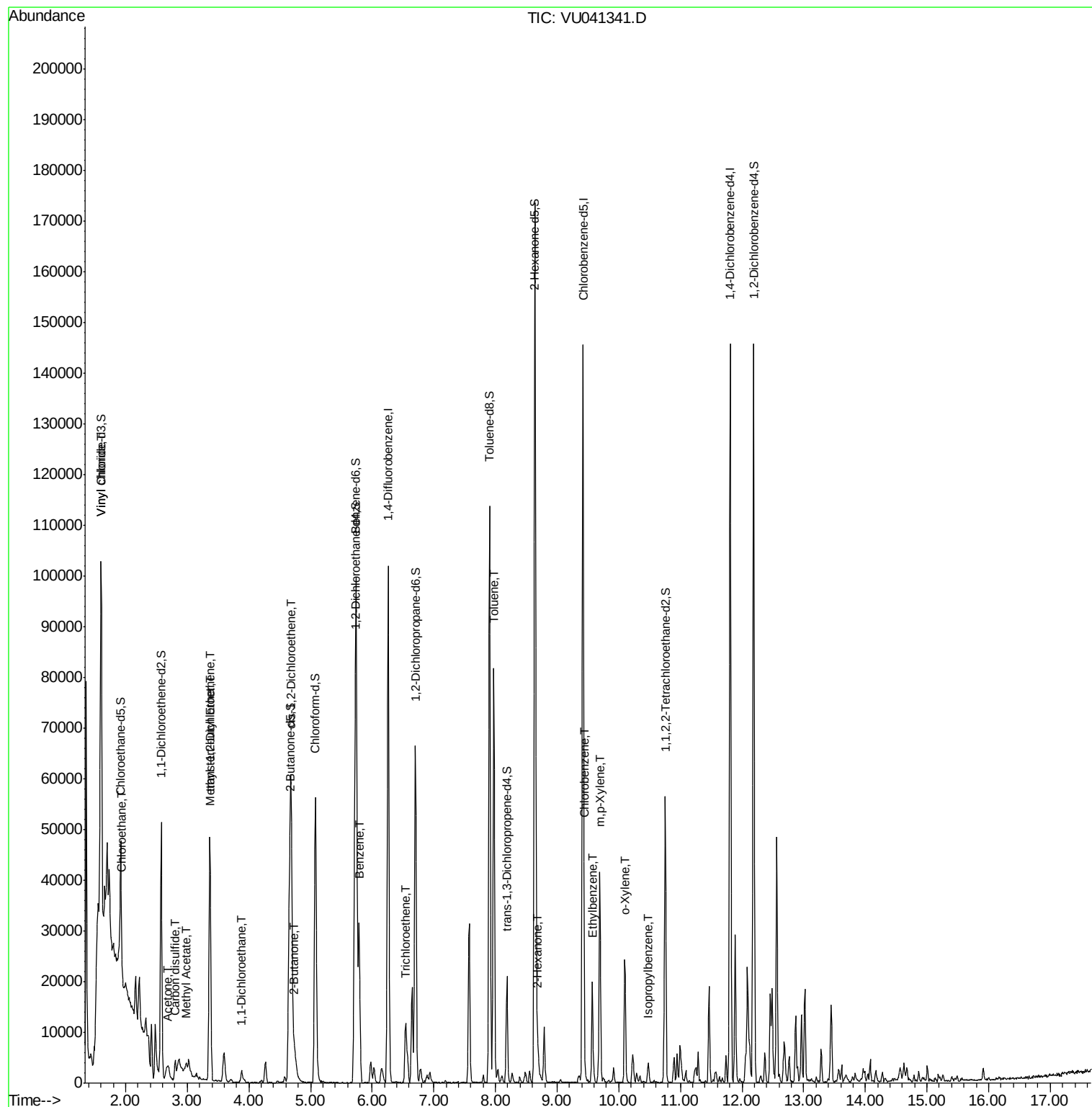
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.10	106	6064	0.747	ug/L	89
56) Isopropylbenzene	10.48	105	1708	0.079	ug/L	95

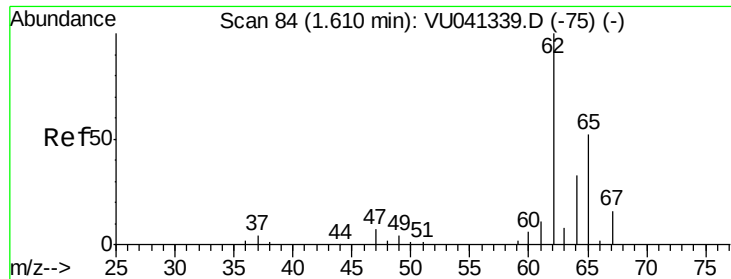
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Nov 20 05:56:10 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 3.706 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU041341.D

Acq: 19 Nov 2020 14:19

Instrument :

MSVOA_U

ClientSampled :

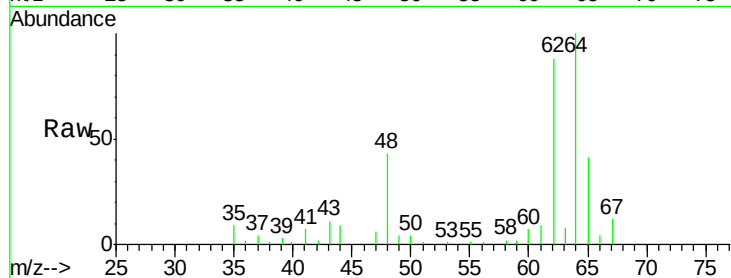
H4390

Tot Ion: 62 Resp: 24143

Ion Ratio Lower Upper

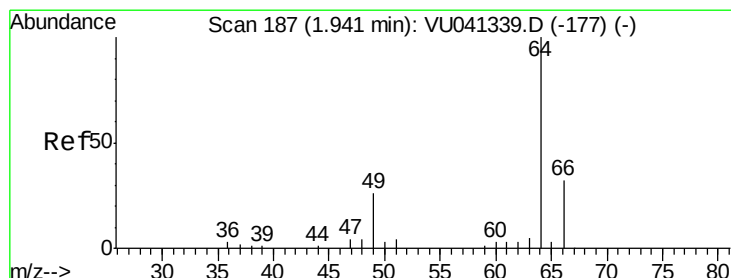
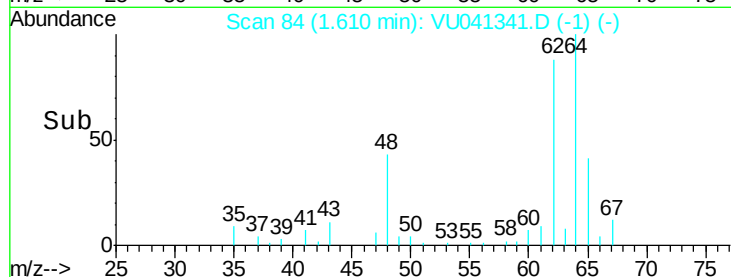
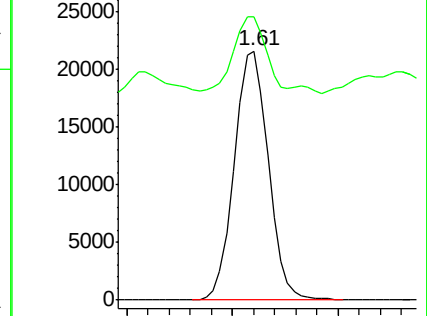
62 100

64 113.5 22.7 42.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#8

Chloroethane

Concen: 0.804 ug/L

RT: 1.94 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU041341.D

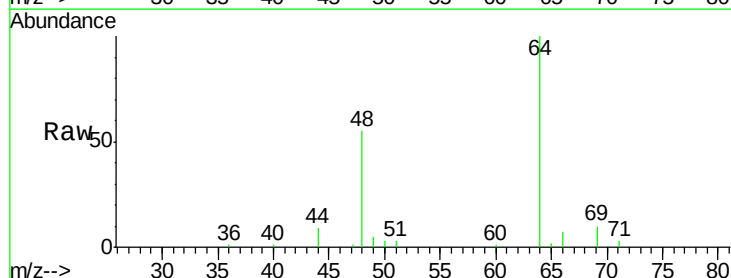
Acq: 19 Nov 2020 14:19

Tgt Ion: 64 Resp: 3477

Ion Ratio Lower Upper

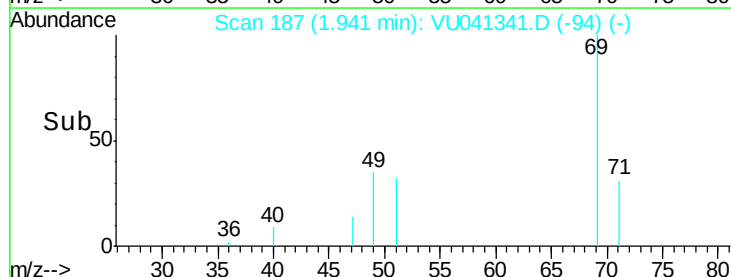
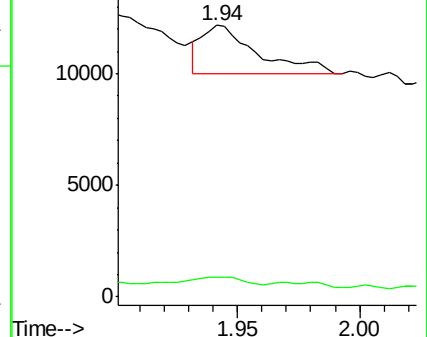
64 100

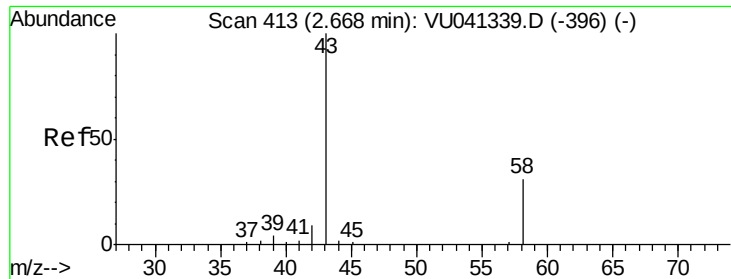
66 7.2 22.3 41.5#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0





#13

Acetone

Concen: 6.099 ug/L

RT: 2.67 min Scan# 414

Delta R.T. 0.00 min

Lab File: VU041341.D

Acq: 19 Nov 2020 14:19

Instrument :

MSVOA_U

ClientSampleId :

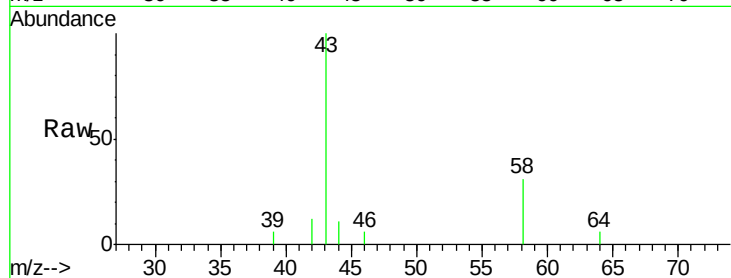
H4390

Tot Ion: 43 Resp: 9208

Ion Ratio Lower Upper

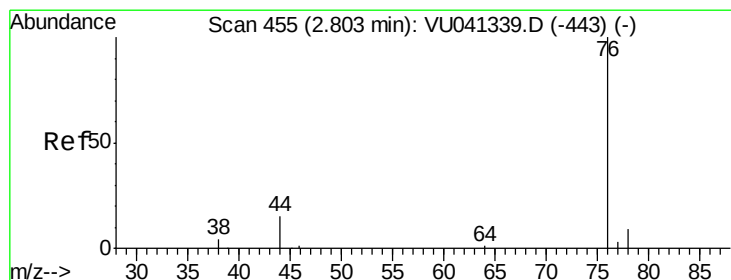
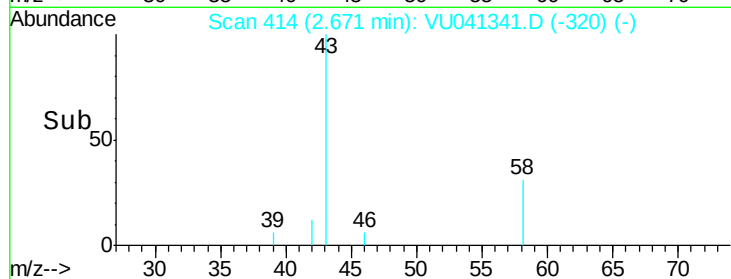
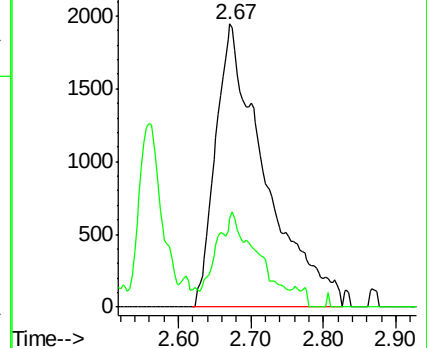
43 100

58 14.4 0.0 25.4



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 0.387 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU041341.D

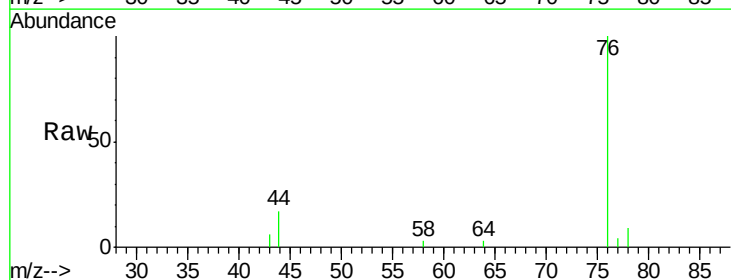
Acq: 19 Nov 2020 14:19

Tgt Ion: 76 Resp: 5570

Ion Ratio Lower Upper

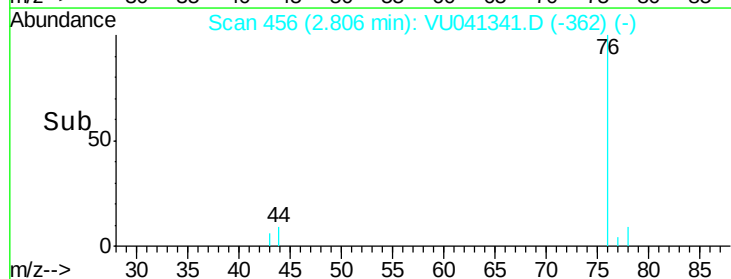
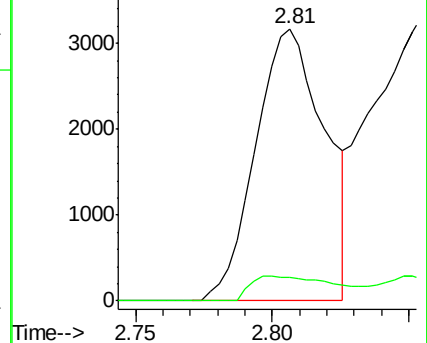
76 100

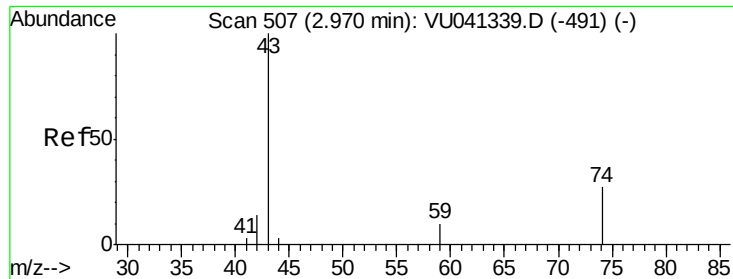
78 8.6 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0

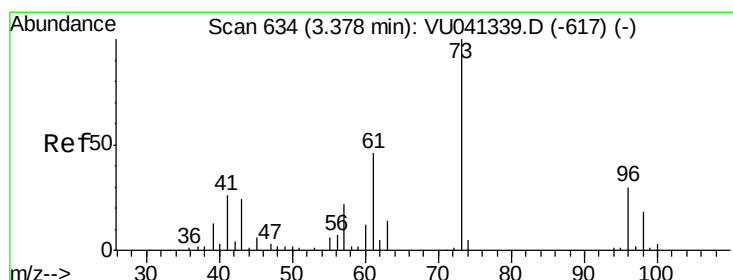
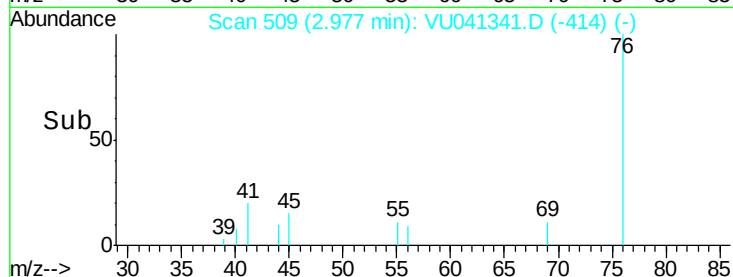
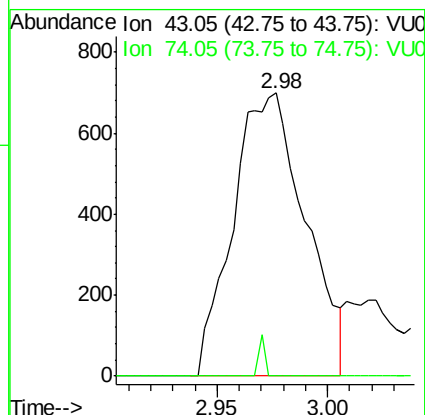
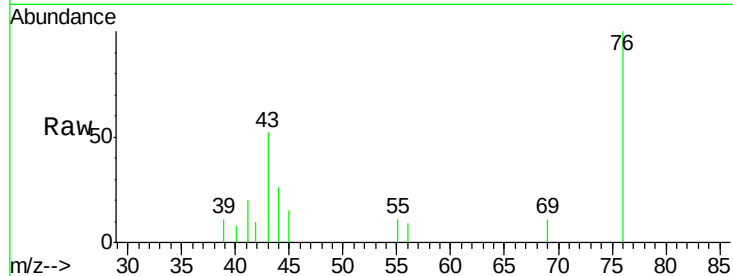




#15
Methyl Acetate
Concen: 0.507 ug/L
RT: 2.98 min Scan# 509
Delta R.T. 0.01 min
Lab File: VU041341.D
Acq: 19 Nov 2020 14:19

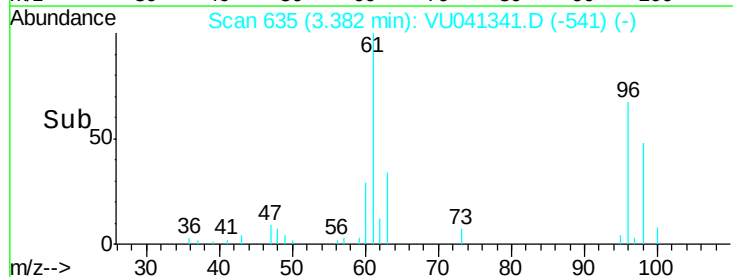
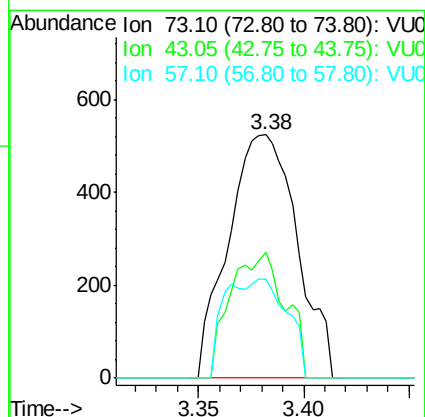
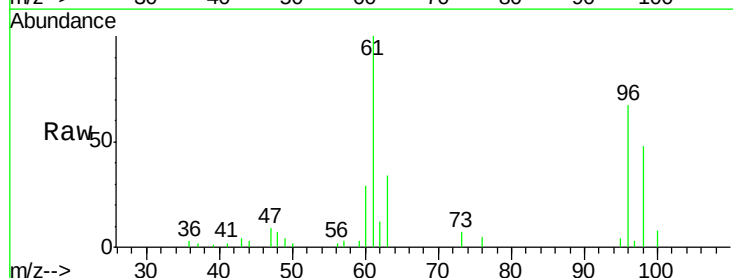
Instrument :
MSVOA_U
ClientSampleId :
H4390

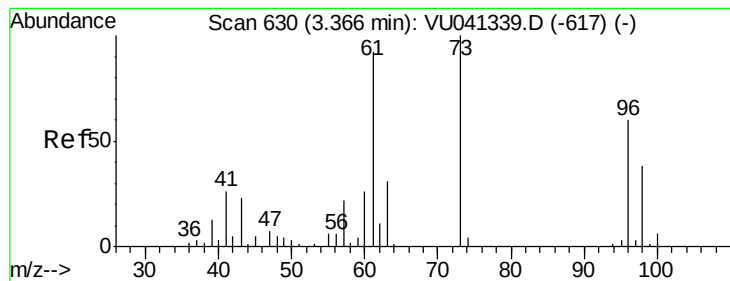
Tot Ion: 43 Resp: 1590
Ion Ratio Lower Upper
43 100
74 1.2 18.3 27.5#



#17
Methyl tert-butyl Ether
Concen: 0.089 ug/L
RT: 3.38 min Scan# 635
Delta R.T. 0.00 min
Lab File: VU041341.D
Acq: 19 Nov 2020 14:19

Tgt Ion: 73 Resp: 1187
Ion Ratio Lower Upper
73 100
43 40.9 18.5 27.7#
57 36.7 18.4 27.6#





#18

trans-1,2-Dichloroethene

Concen: 4.011 ug/L

RT: 3.37 min Scan# 630

Delta R.T. 0.00 min

Lab File: VU041341.D

Acq: 19 Nov 2020 14:19

Instrument :

MSVOA_U

ClientSampleId :

H4390

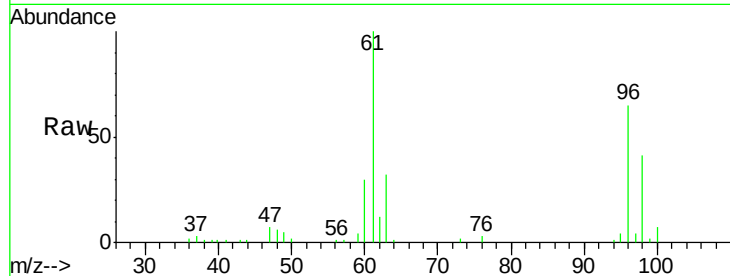
Tot Ion: 96 Resp: 19080

Ion Ratio Lower Upper

96 100

61 153.7 110.9 205.9

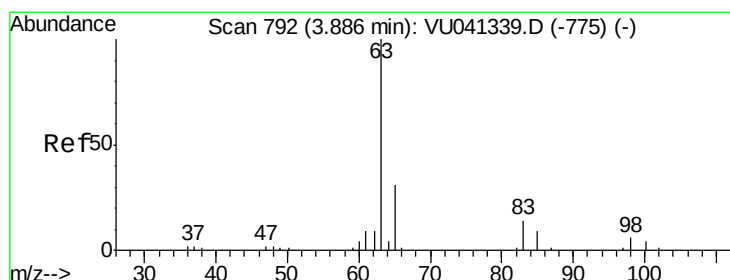
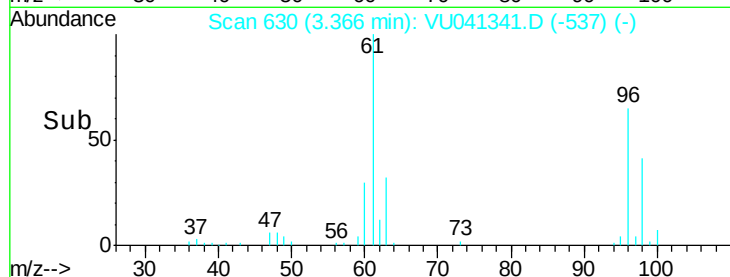
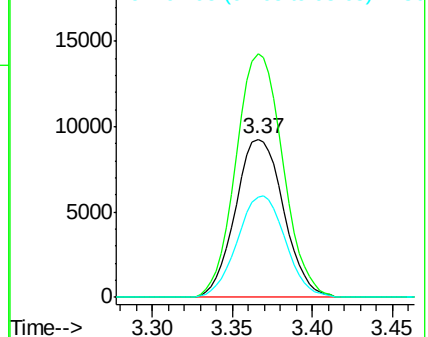
98 63.2 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0



#19

1,1-Dichloroethane

Concen: 0.275 ug/L

RT: 3.88 min Scan# 791

Delta R.T. -0.00 min

Lab File: VU041341.D

Acq: 19 Nov 2020 14:19

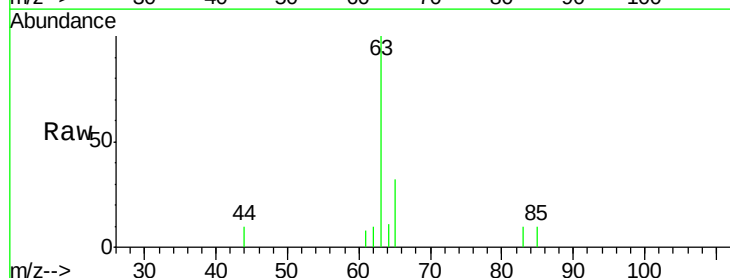
Tgt Ion: 63 Resp: 2924

Ion Ratio Lower Upper

63 100

65 32.1 21.3 39.6

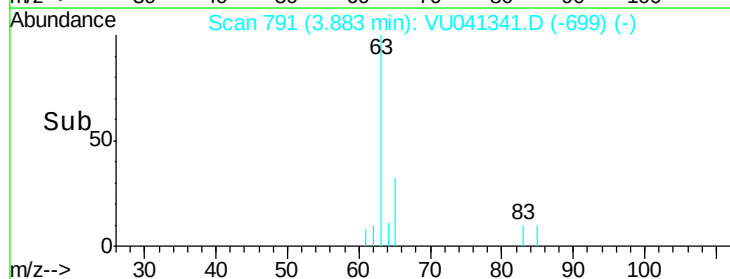
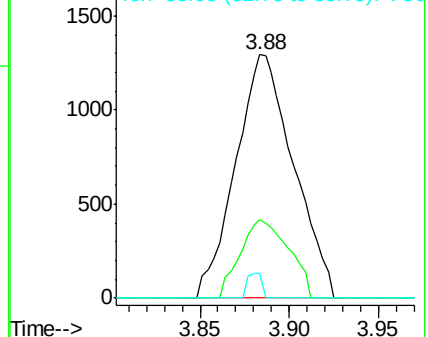
83 10.3 8.8 16.3

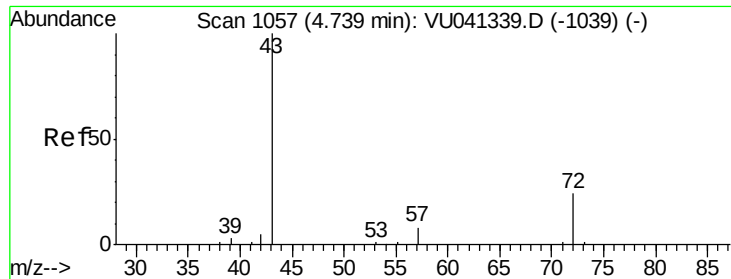


Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0





#21

2-Butanone

Concen: 3.107 ug/L

RT: 4.74 min Scan# 1057

Delta R.T. 0.00 min

Lab File: VU041341.D

Acq: 19 Nov 2020 14:19

Instrument :

MSVOA_U

ClientSampleId :

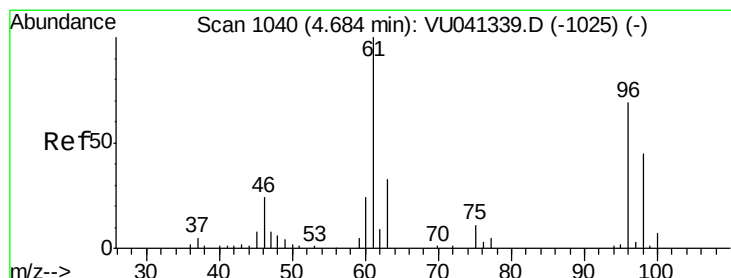
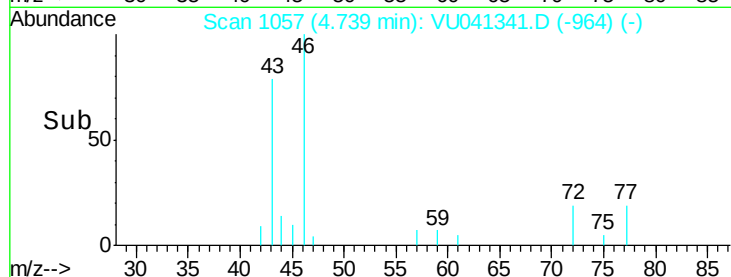
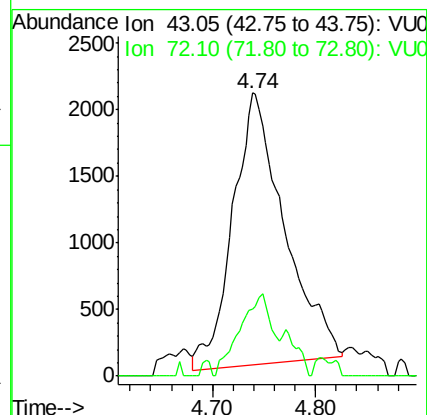
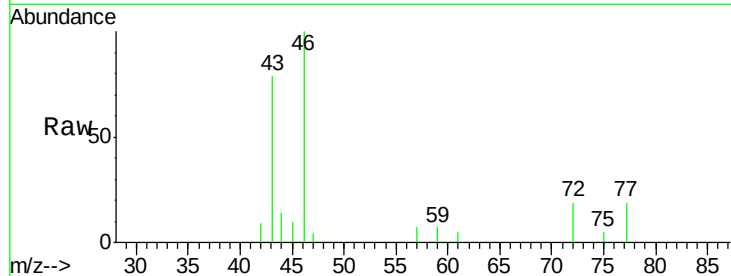
H4390

Tot Ion: 43 Resp: 7122

Ion Ratio Lower Upper

43 100

72 18.8 11.8 35.4



#22

cis-1,2-Dichloroethene

Concen: 3.586 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VU041341.D

Acq: 19 Nov 2020 14:19

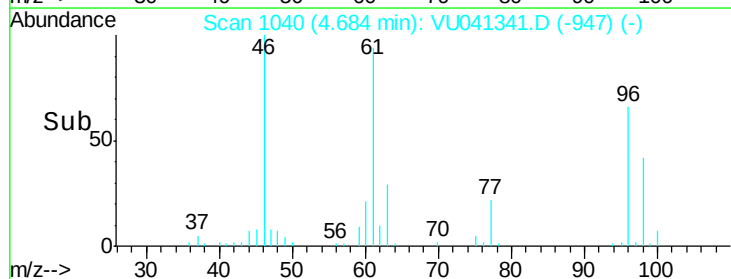
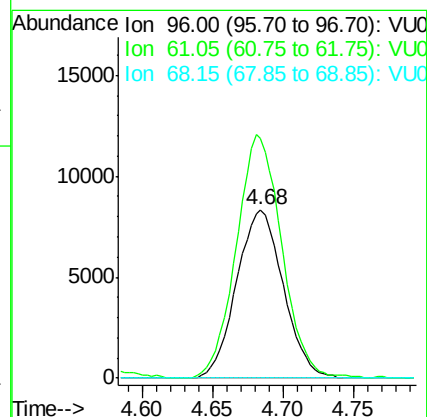
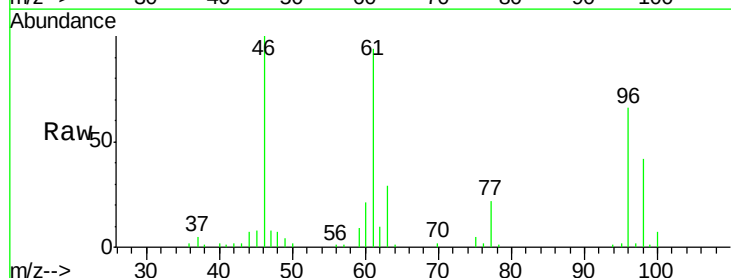
Tgt Ion: 96 Resp: 19265

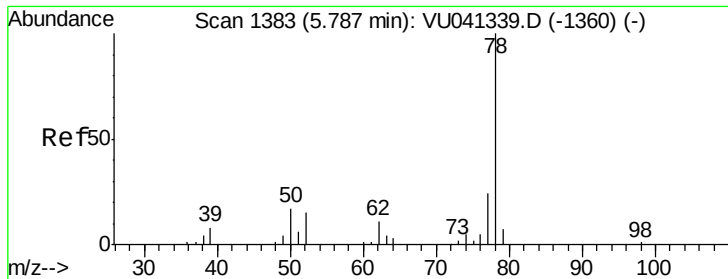
Ion Ratio Lower Upper

96 100

61 142.6 97.2 180.4

68 0.0 0.0 0.0





#33

Benzene

Concen: 1.344 ug/L

RT: 5.79 min Scan# 1383

Delta R.T. 0.00 min

Lab File: VU041341.D

Acq: 19 Nov 2020 14:19

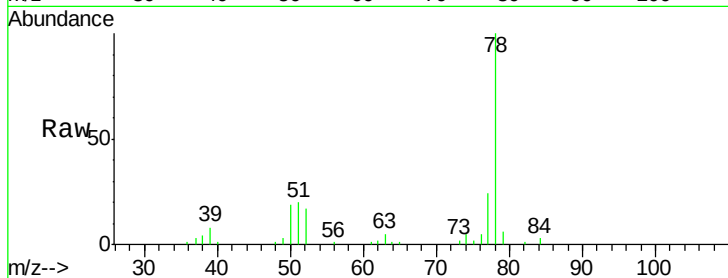
Instrument :

MSVOA_U

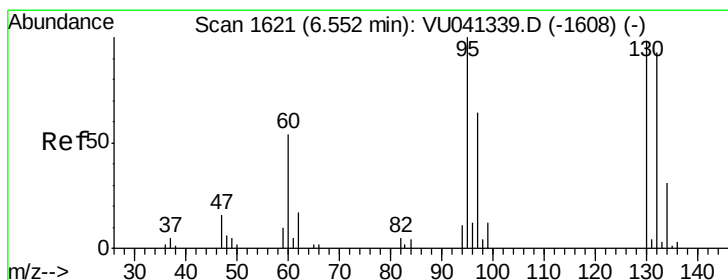
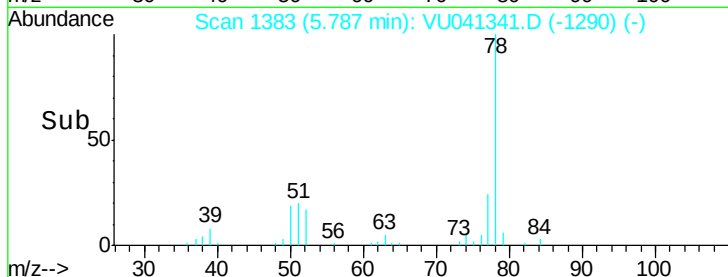
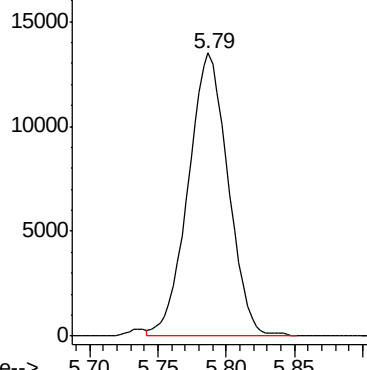
ClientSampleId :

H4390

Tgt Ion: 78 Resp: 27444



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.366 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VU041341.D

Acq: 19 Nov 2020 14:19

Tgt Ion: 95 Resp: 2021

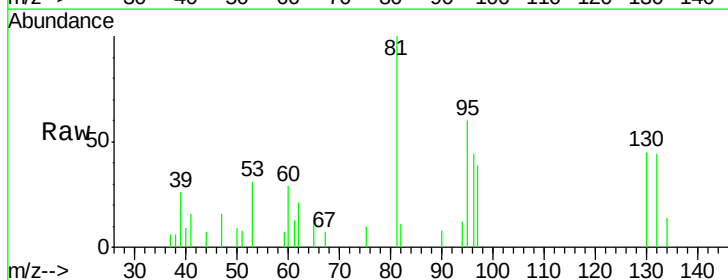
Ion Ratio Lower Upper

95 100

97 65.5 45.6 84.6

132 73.8 64.8 120.4

130 74.9 64.8 120.4

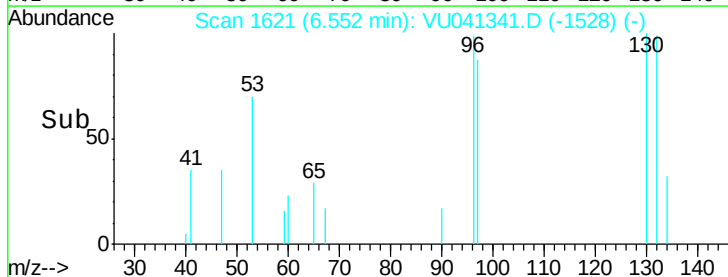
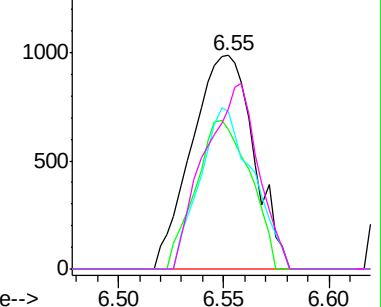


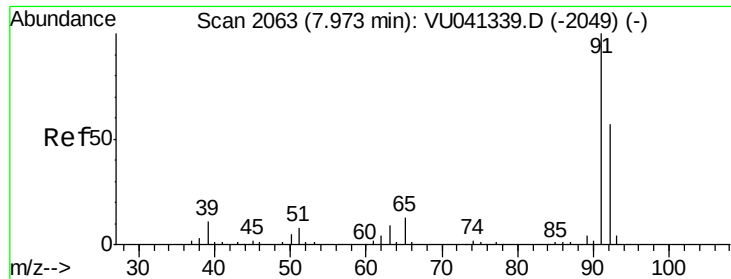
Abundance Ion 95.00 (94.70 to 95.70): VU0

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





#42

Toluene

Concen: 2.599 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VU041341.D

Acq: 19 Nov 2020 14:19

Instrument :

MSVOA_U

ClientSampled :

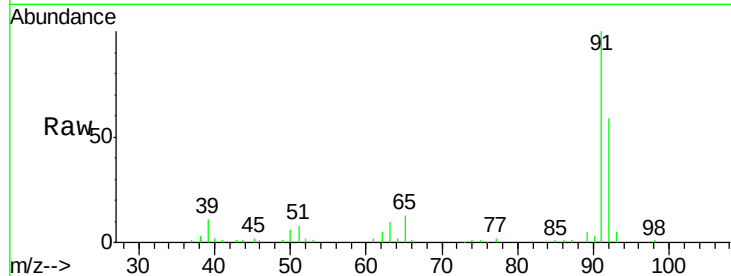
H4390

Tot Ion: 91 Resp: 56723

Ion Ratio Lower Upper

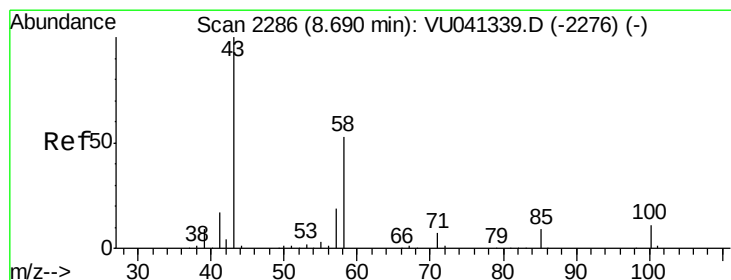
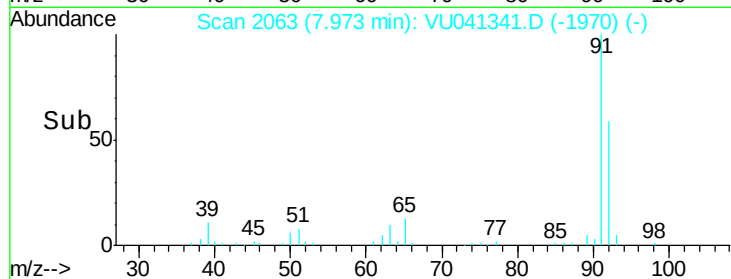
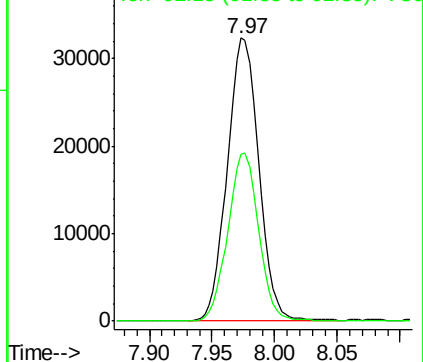
91 100

92 59.0 40.6 75.4



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#48

2-Hexanone

Concen: 0.717 ug/L

RT: 8.69 min Scan# 2286

Delta R.T. 0.00 min

Lab File: VU041341.D

Acq: 19 Nov 2020 14:19

Tgt Ion: 43 Resp: 2645

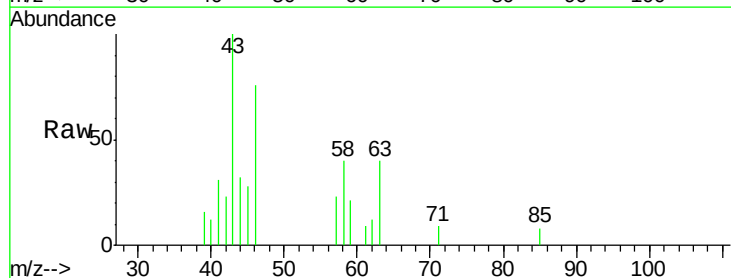
Ion Ratio Lower Upper

43 100

58 34.1 41.4 62.2#

57 24.2 14.6 21.8#

100 0.0 8.3 12.5#

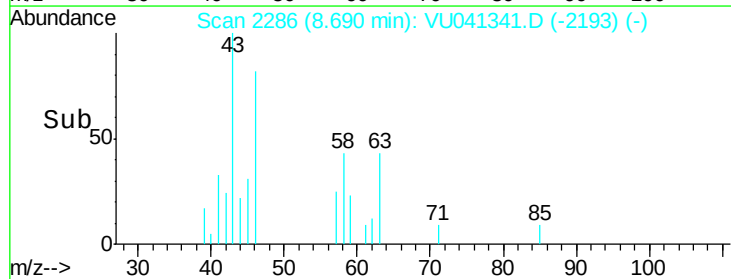
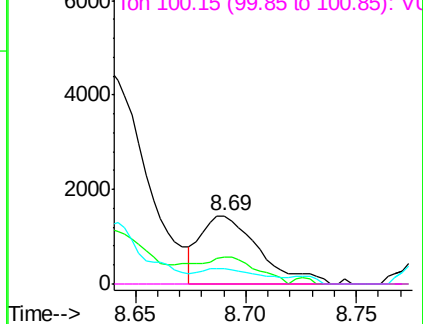


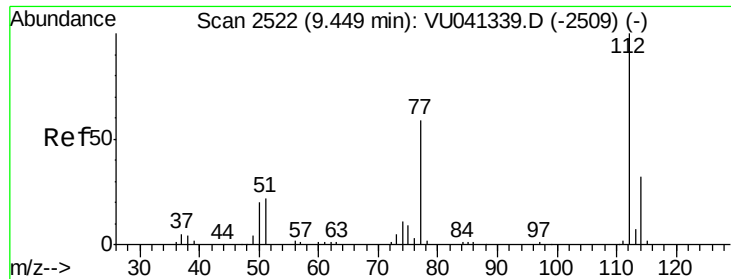
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0

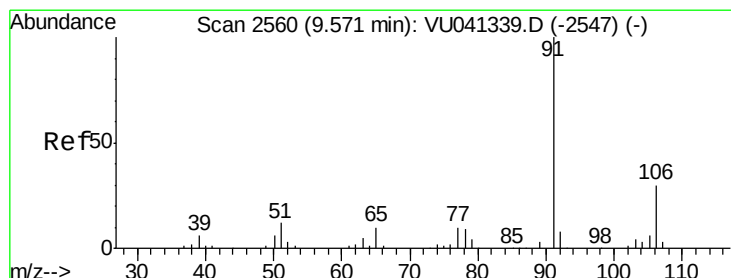
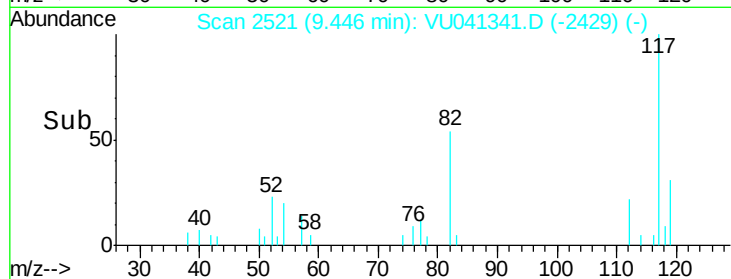
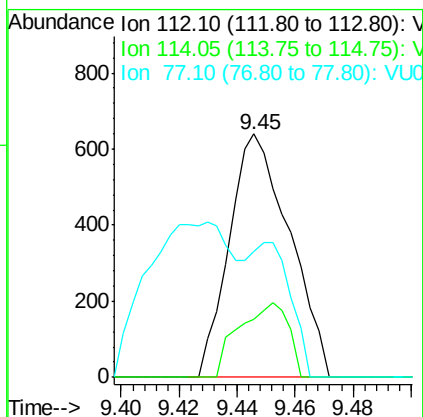
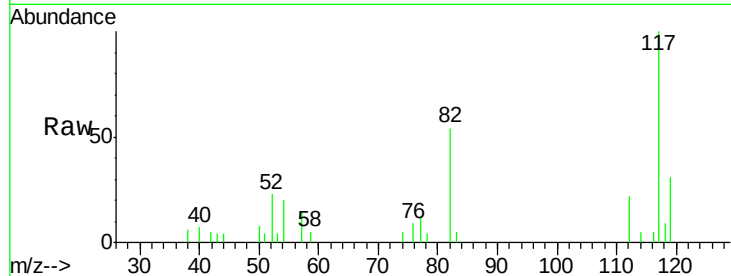




#51
Chlorobenzene
Concen: 0.064 ug/L
RT: 9.45 min Scan# 2521
Delta R.T. -0.00 min
Lab File: VU041341.D
Acq: 19 Nov 2020 14:19

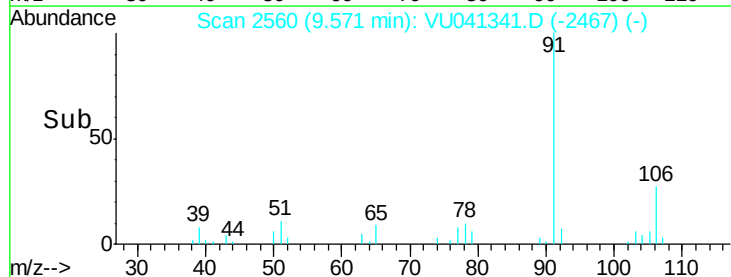
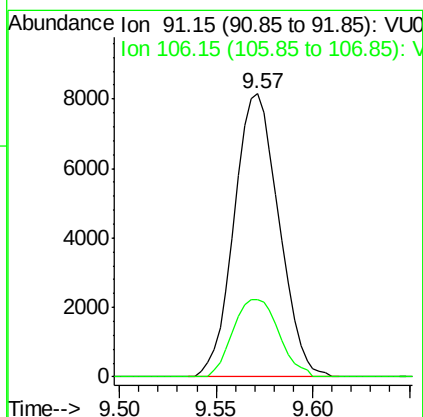
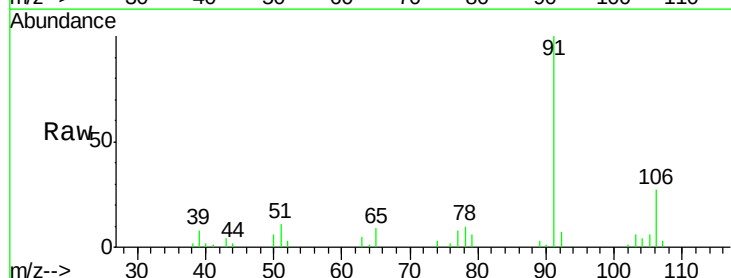
Instrument :
MSVOA_U
ClientSampled :
H4390

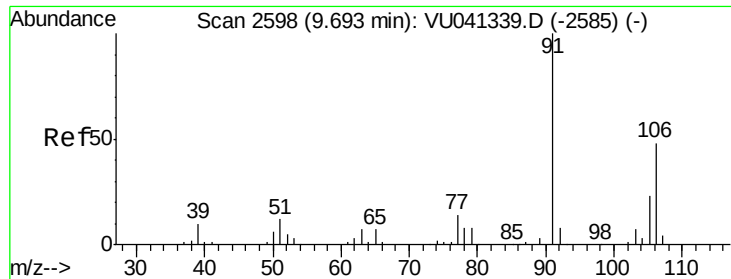
Tot Ion:112 Resp: 921
Ion Ratio Lower Upper
112 100
114 23.9 22.4 41.6
77 51.9 51.2 76.8



#52
Ethylbenzene
Concen: 0.562 ug/L
RT: 9.57 min Scan# 2560
Delta R.T. 0.00 min
Lab File: VU041341.D
Acq: 19 Nov 2020 14:19

Tgt Ion: 91 Resp: 13094
Ion Ratio Lower Upper
91 100
106 27.2 21.0 39.0





#53

m,p-Xylene

Concen: 1.353 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU041341.D

Acq: 19 Nov 2020 14:19

Instrument :

MSVOA_U

ClientSampleId :

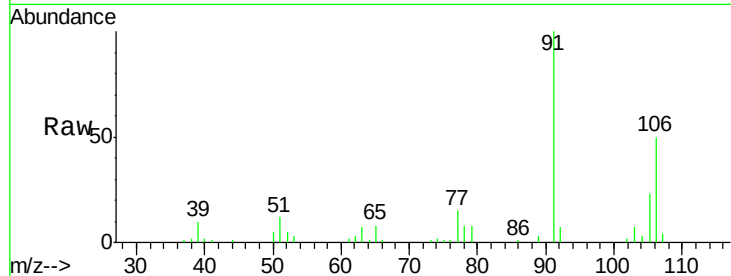
H4390

Tot Ion:106 Resp: 11394

Ion Ratio Lower Upper

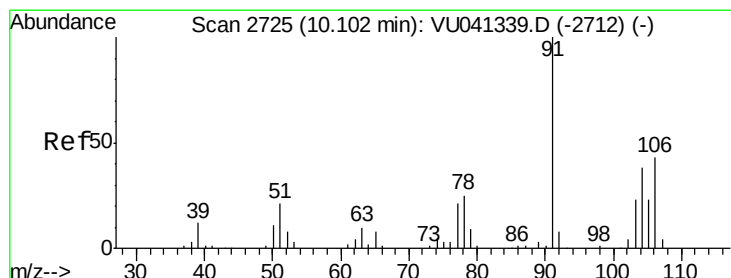
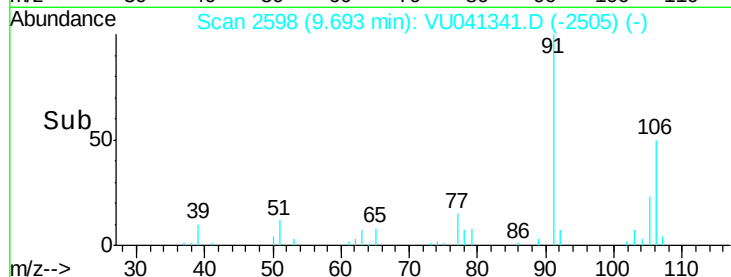
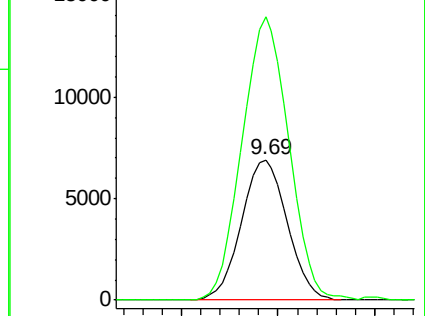
106 100

91 201.8 150.9 280.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.747 ug/L

RT: 10.10 min Scan# 2724

Delta R.T. -0.00 min

Lab File: VU041341.D

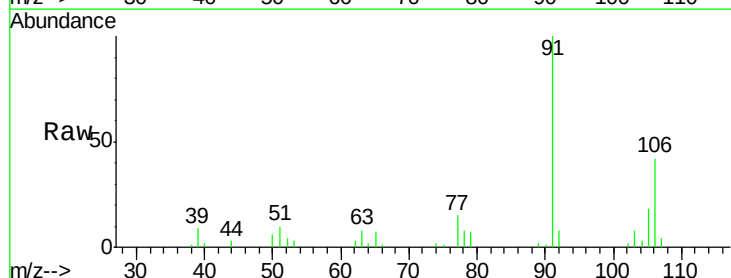
Acq: 19 Nov 2020 14:19

Tgt Ion:106 Resp: 6064

Ion Ratio Lower Upper

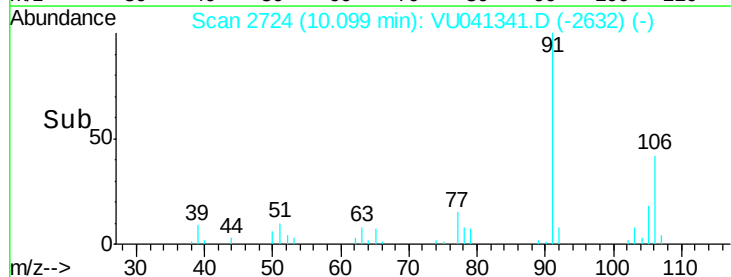
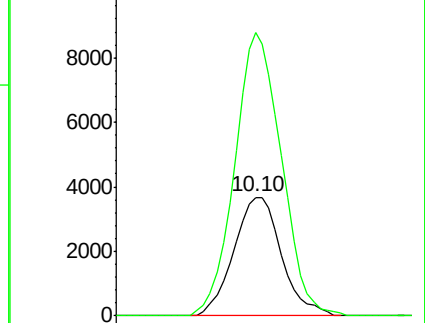
106 100

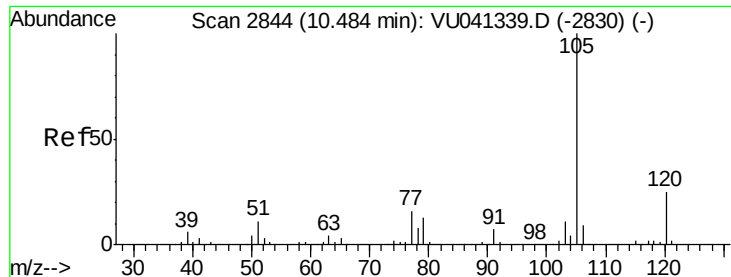
91 238.3 154.3 286.5



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#56

Isopropylbenzene

Concen: 0.079 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU041341.D

Acq: 19 Nov 2020 14:19

Instrument :

MSVOA_U

ClientSampleId :

H4390

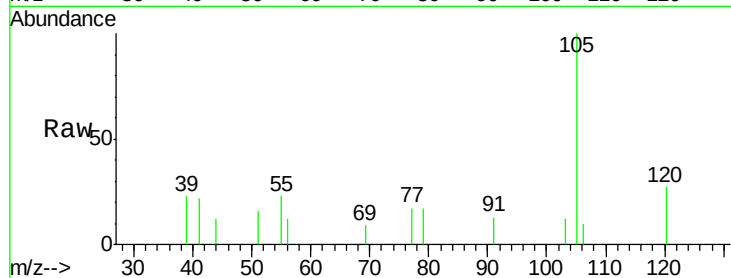
Tot Ion:105 Resp: 1708

Ion Ratio Lower Upper

105 100

120 23.8 20.7 31.1

77 19.7 13.8 20.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VU

