

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111819\
 Data File : VU035742.D
 Acq On : 18 Nov 2019 14:19
 Operator : JC/SP
 Sample : K5911-02MS
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 19 00:36:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR110419WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Nov 19 00:32:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	194324	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	231533	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	139617	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	90988	4.55	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.00%
7) Chloroethane-d5	1.93	69	83659	5.11	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	102.20%
11) 1,1-Dichloroethene-d2	2.60	63	167867	4.99	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	99.80%
20) 2-Butanone-d5	4.71	46	238994	54.12	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.24%
24) Chloroform-d	5.11	84	172564	5.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.20%
26) 1,2-Dichloroethane-d4	5.75	65	91152	5.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	108.80%
32) Benzene-d6	5.77	84	326862	4.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.80%
36) 1,2-Dichloropropane-d6	6.73	67	113973	4.84	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.80%
41) Toluene-d8	7.93	98	269691	3.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	78.20%
43) trans-1,3-Dichloropropene-	8.22	79	42215	4.48	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.60%
46) 2-Hexanone-d5	8.68	63	184470	50.02	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.04%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	102015	5.16	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.20%
64) 1,2-Dichlorobenzene-d4	12.22	152	125880	4.55	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
6) Bromomethane	1.88	94	1895	0.135	ug/L	81
8) Chloroethane	2.04	64	1882	0.133	ug/L #	52
12) 1,1-Dichloroethene	2.61	96	97682	5.717	ug/L	89
13) Acetone	2.68	43	20601	6.470	ug/L	90
14) Carbon disulfide	2.82	76	77945	1.407	ug/L	100
21) 2-Butanone	4.79	43	7249	1.533	ug/L	88
27) 1,2-Dichloroethane	5.83	62	3203	0.162	ug/L #	73
33) Benzene	5.82	78	433193	5.317	ug/L	100
34) Trichloroethene	6.58	95	104288	5.001	ug/L	98
35) Methylcyclohexane	6.73	83	27251	0.858	ug/L #	19
37) 1,2-Dichloropropane	6.74	63	11443	0.533	ug/L #	88
39) cis-1,3-Dichloropropene	7.61	75	2542	0.083	ug/L #	52
42) Toluene	8.01	91	488099	5.693	ug/L	98
48) 2-Hexanone	8.73	43	20115	2.293	ug/L #	88
51) Chlorobenzene	9.48	112	293948	5.222	ug/L	99
52) Ethylbenzene	9.60	91	18886	0.209	ug/L	99
53) m,p-Xylene	9.72	106	8559	0.251	ug/L	97

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QLast Update : Tue Nov 19 00:32:50 2019
Response via : Initial Calibration

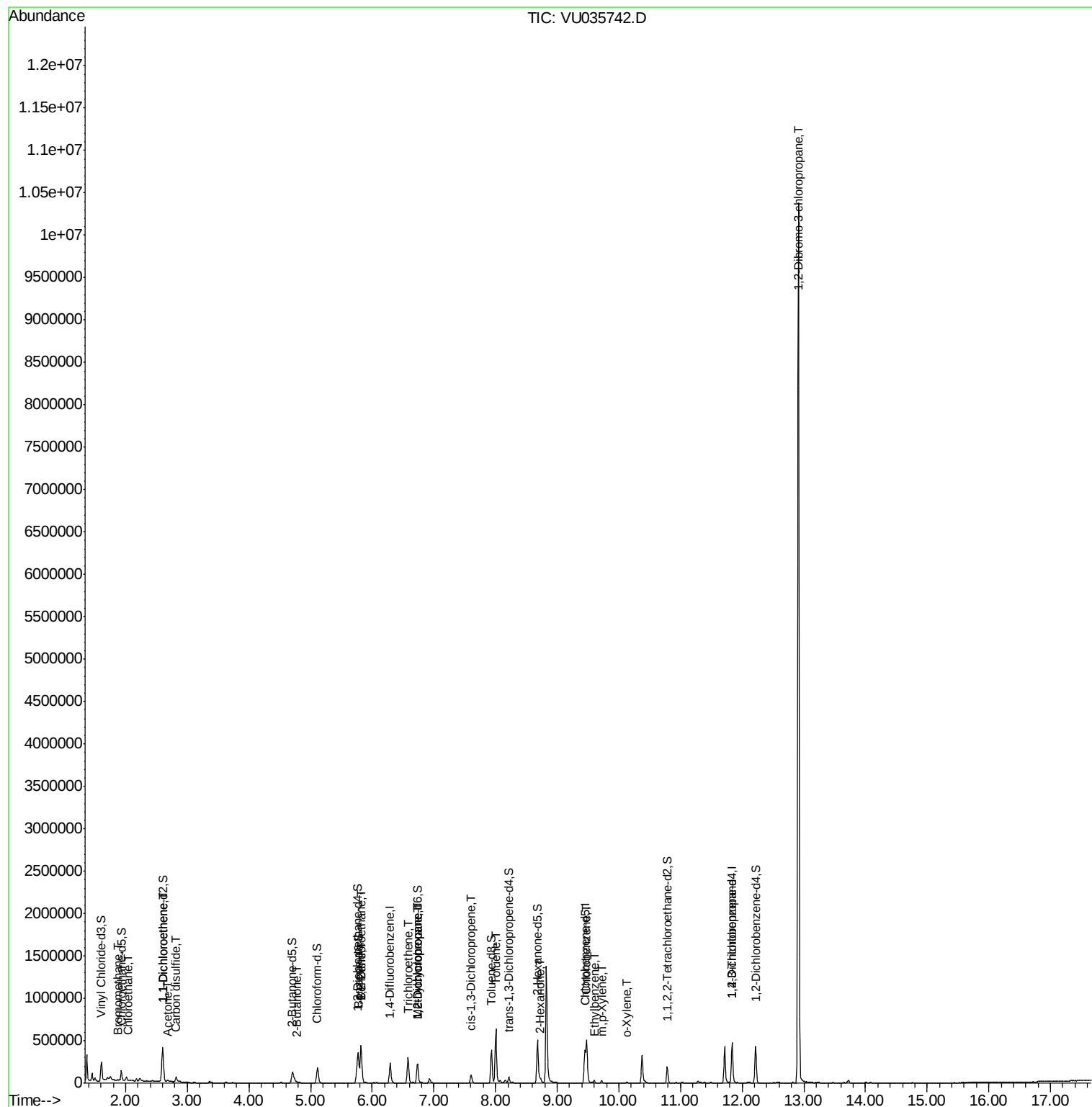
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.13	106	3517	0.107	ug/L	94
59) 1,2,3-Trichloropropane	11.84	75	15906	1.120	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.92	75	802	0.286	ug/L #	1

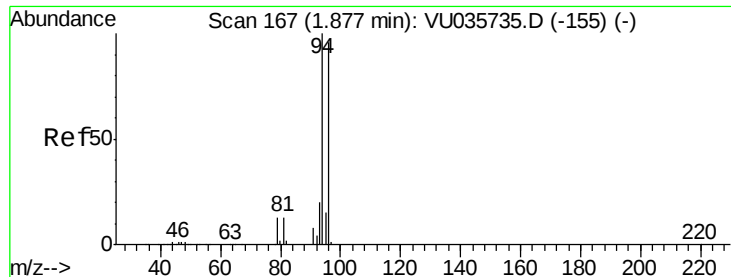
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU111819\
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Response via : Initial Calibration





#6

Bromomethane

Concen: 0.135 ug/L

RT: 1.88 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU035742.D

Acq: 18 Nov 2019 14:19

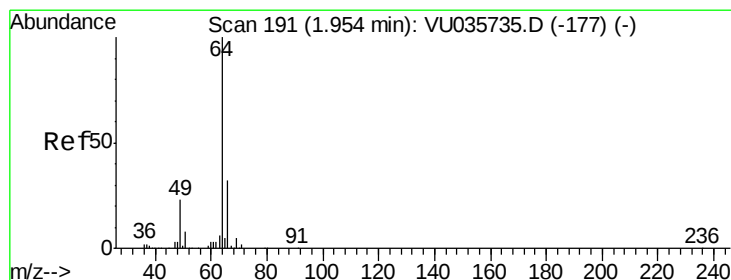
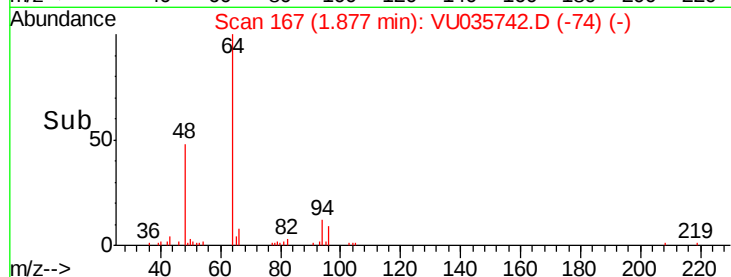
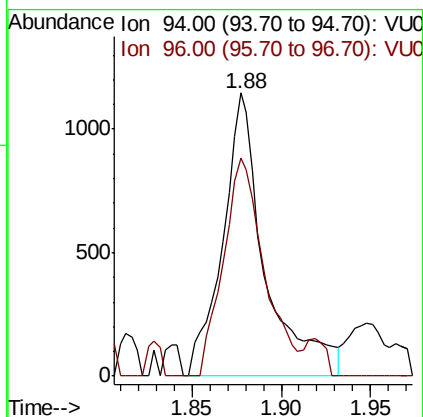
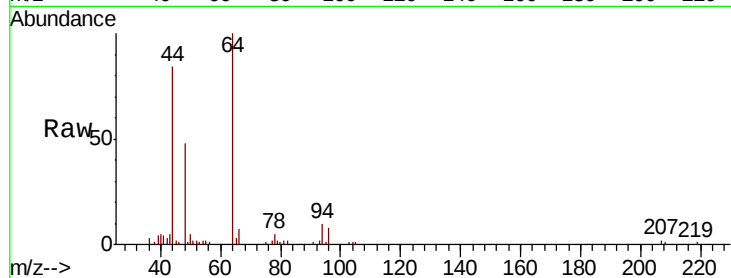
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 94 Resp: 1895

Ion Ratio Lower Upper

94 100

96 77.0 66.8 124.2



#8

Chloroethane

Concen: 0.133 ug/L

RT: 2.04 min Scan# 218

Delta R.T. 0.09 min

Lab File: VU035742.D

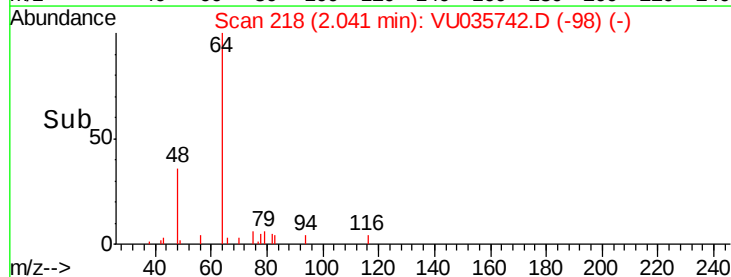
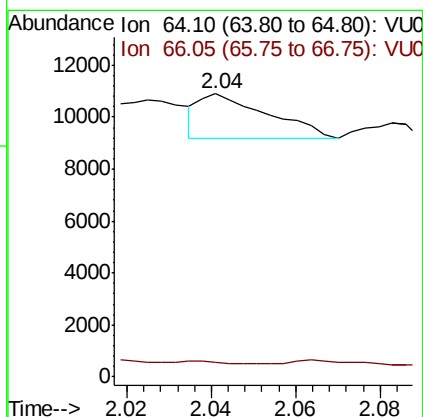
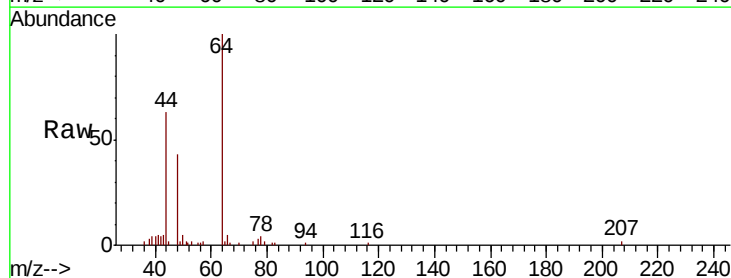
Acq: 18 Nov 2019 14:19

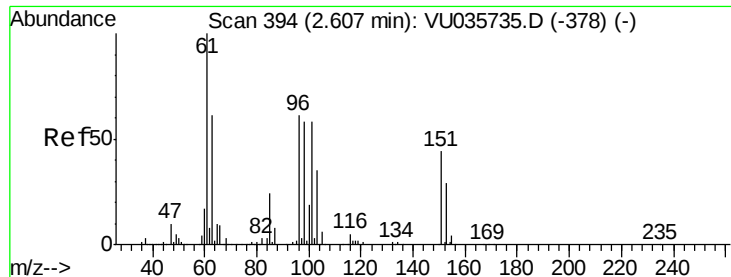
Tgt Ion: 64 Resp: 1882

Ion Ratio Lower Upper

64 100

66 5.3 22.5 41.7#





#12

1,1-Dichloroethene

Concen: 5.717 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU035742.D

Acq: 18 Nov 2019 14:19

Instrument :
MSVOA_U
ClientSampled :

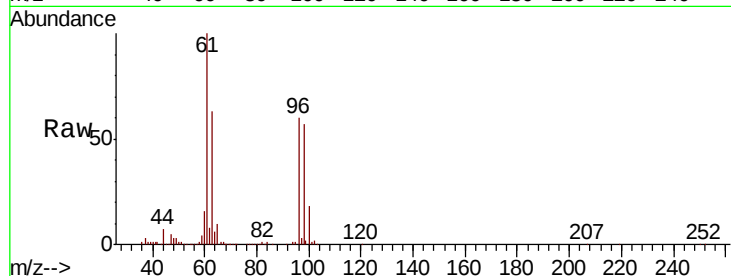
Tot Ion: 96 Resp: 97682

Ion Ratio Lower Upper

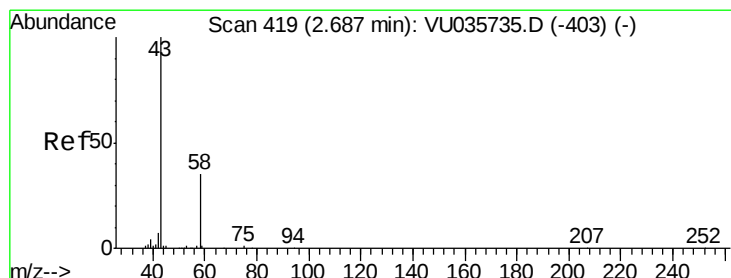
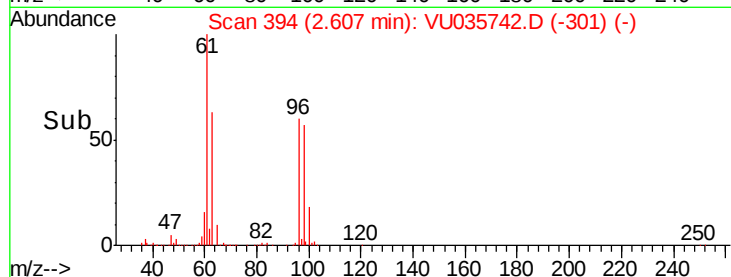
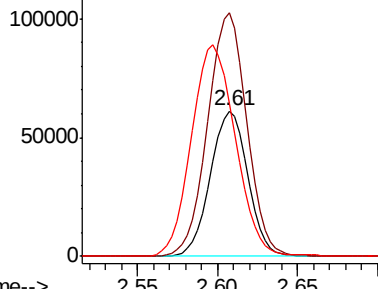
96 100

61 167.8 123.1 228.5

63 105.1 87.8 163.0



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: 6.470 ug/L

RT: 2.68 min Scan# 418

Delta R.T. -0.00 min

Lab File: VU035742.D

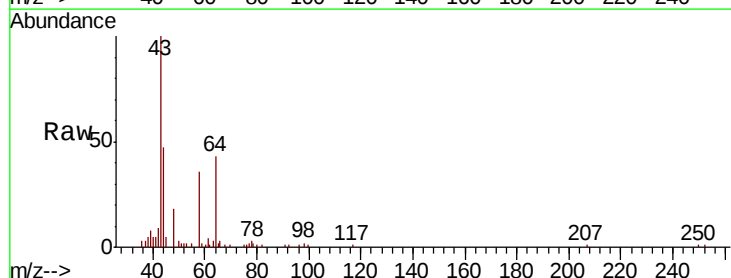
Acq: 18 Nov 2019 14:19

Tgt Ion: 43 Resp: 20601

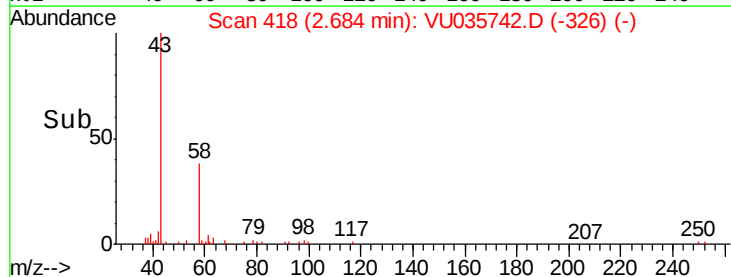
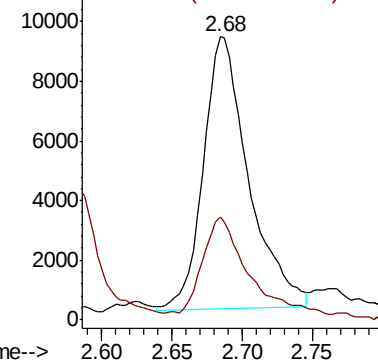
Ion Ratio Lower Upper

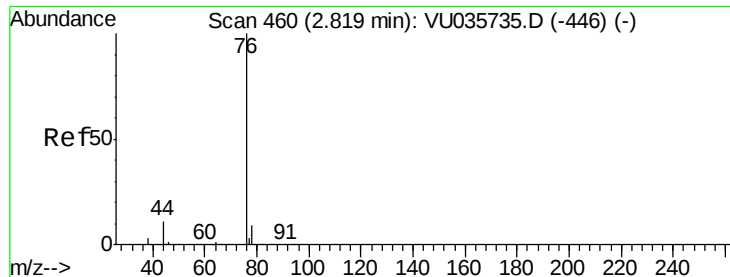
43 100

58 40.6 0.0 69.8



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





#14

Carbon disulfide

Concen: 1.407 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU035742.D

Acq: 18 Nov 2019 14:19

Instrument :

MSVOA_U

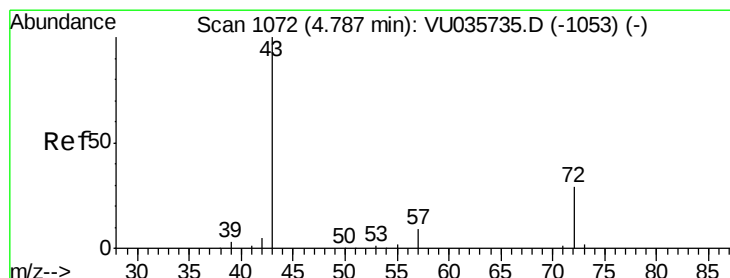
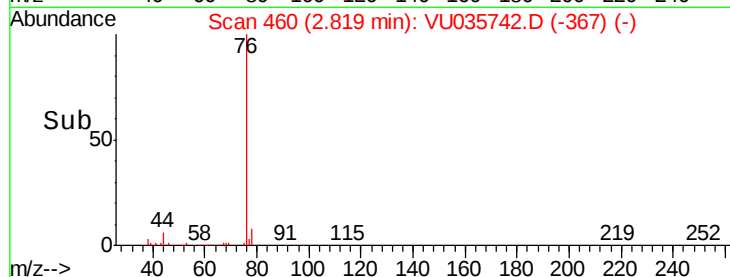
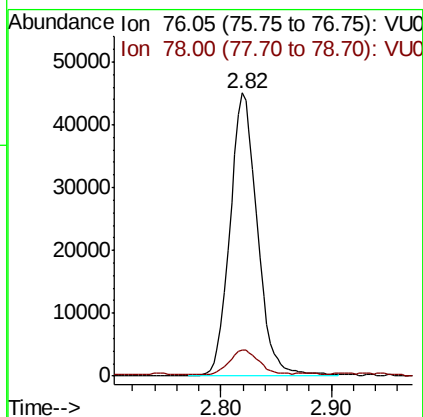
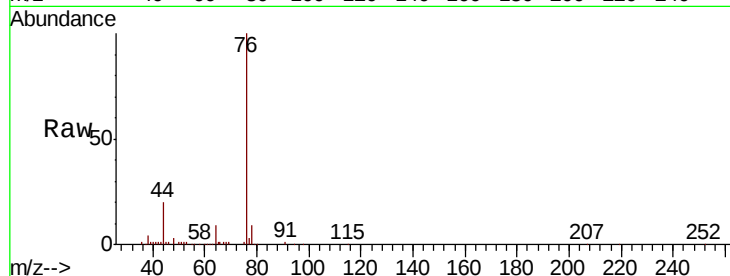
ClientSampleId :

Tot Ion: 76 Resp: 77945

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.0



#21

2-Butanone

Concen: 1.533 ug/L

RT: 4.79 min Scan# 1072

Delta R.T. 0.00 min

Lab File: VU035742.D

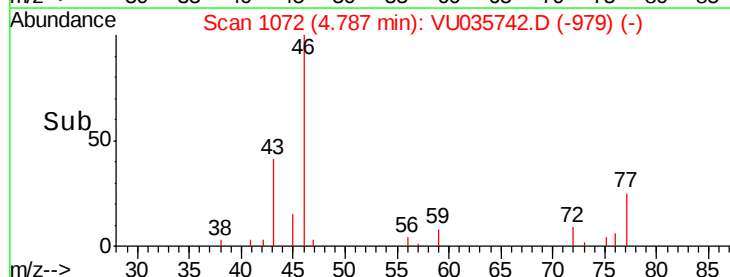
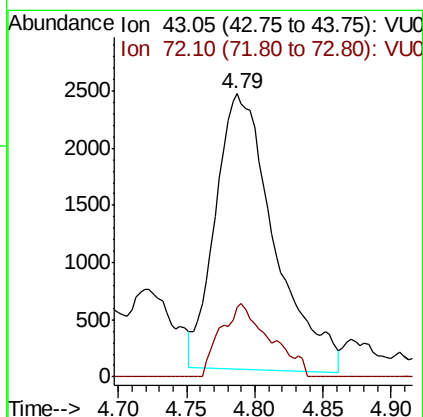
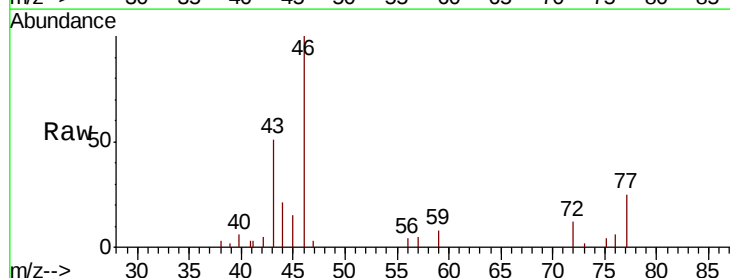
Acq: 18 Nov 2019 14:19

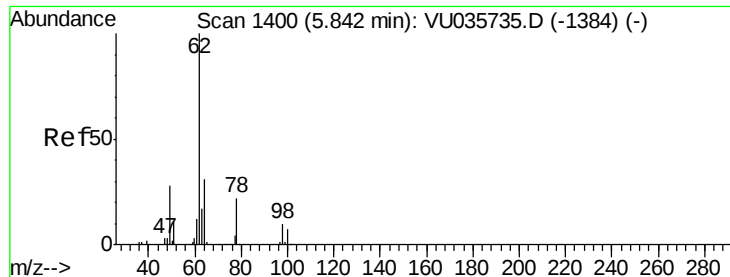
Tgt Ion: 43 Resp: 7249

Ion Ratio Lower Upper

43 100

72 22.2 14.3 42.9





#27

1,2-Dichloroethane

Concen: 0.162 ug/L

RT: 5.83 min Scan# 1395

Delta R.T. -0.02 min

Lab File: VU035742.D

Acq: 18 Nov 2019 14:19

Instrument :

MSVOA_U

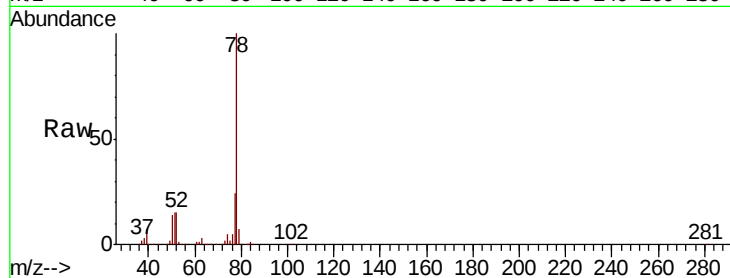
ClientSampleId :

Tot Ion: 62 Resp: 3203

Ion Ratio Lower Upper

62 100

98 0.0 8.0 12.0#



Abundance Ion 62.00 (61.70 to 62.70): VU035735.D (-1384) (-)

Ion 98.05 (97.75 to 98.75): VU035735.D (-1384) (-)

5.83

1500

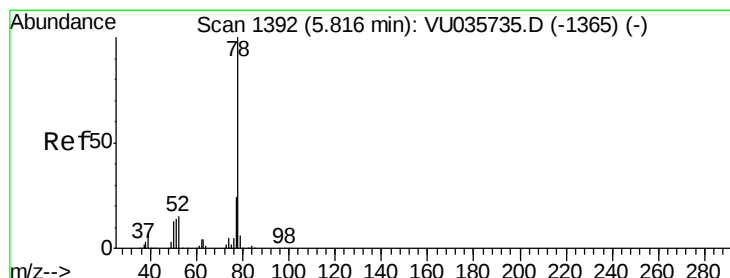
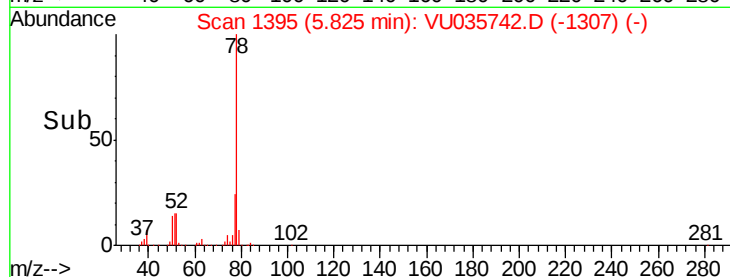
1000

500

0

5.80 5.85

Time-->



#33

Benzene

Concen: 5.317 ug/L

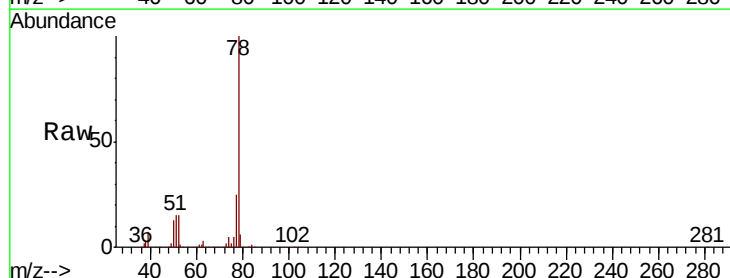
RT: 5.82 min Scan# 1393

Delta R.T. 0.00 min

Lab File: VU035742.D

Acq: 18 Nov 2019 14:19

Tgt Ion: 78 Resp: 433193



Abundance Ion 78.10 (77.80 to 78.80): VU035735.D (-1365) (-)

250000

200000

150000

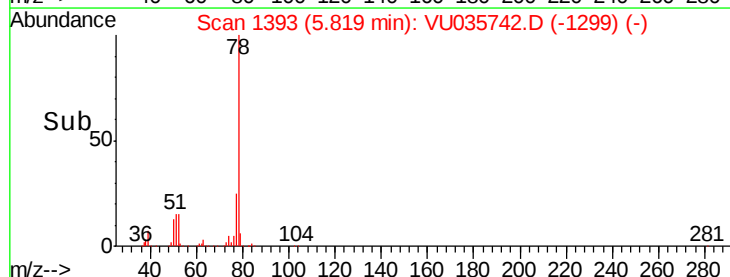
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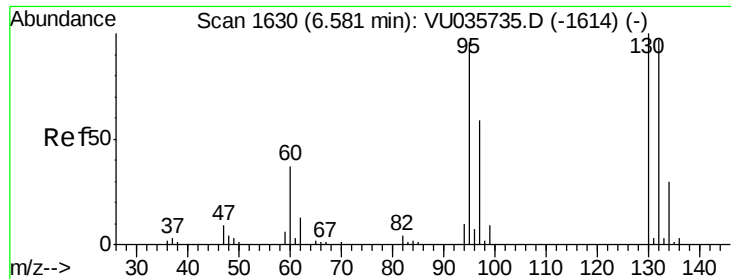
50000

0

5.70 5.80 5.90

Time-->

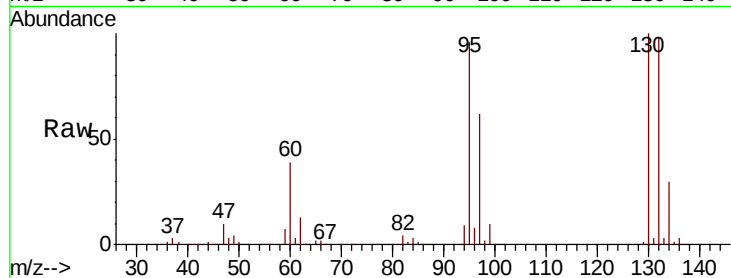




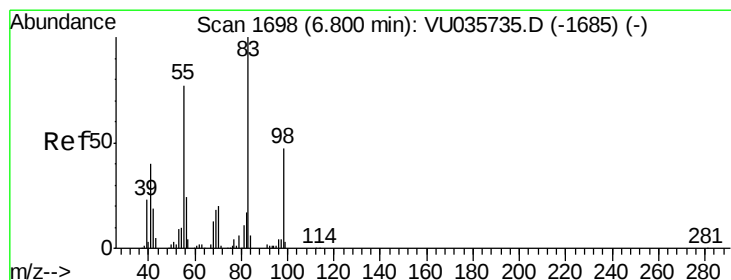
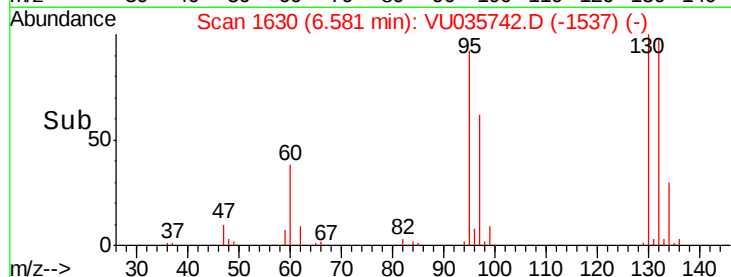
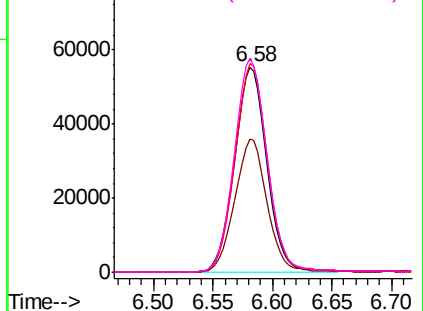
#34
 Trichloroethene
 Concen: 5.001 ug/L
 RT: 6.58 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VU035742.D
 Acq: 18 Nov 2019 14:19

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 104288
 Ion Ratio Lower Upper
 95 100
 97 64.7 44.5 82.7
 132 101.6 69.9 129.7
 130 104.1 74.1 137.7

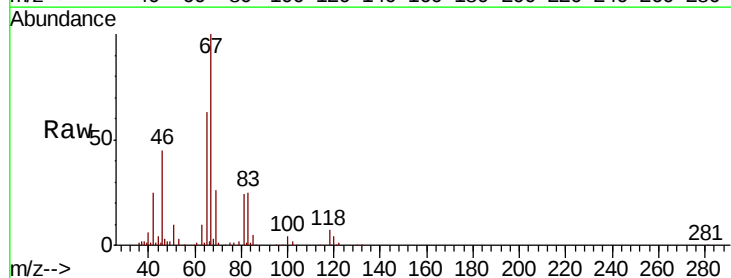


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

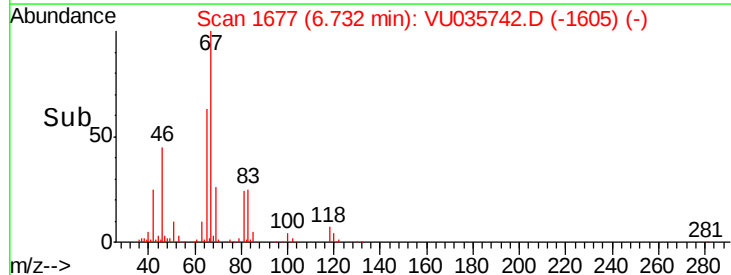
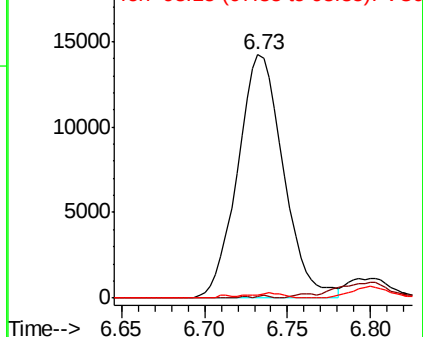


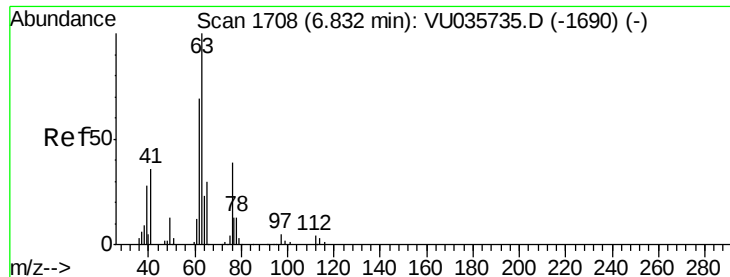
#35
 Methylcyclohexane
 Concen: 0.858 ug/L
 RT: 6.73 min Scan# 1677
 Delta R.T. -0.07 min
 Lab File: VU035742.D
 Acq: 18 Nov 2019 14:19

Tgt Ion: 83 Resp: 27251
 Ion Ratio Lower Upper
 83 100
 55 0.9 62.6 93.8#
 98 1.6 37.2 55.8#



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: 0.533 ug/L

RT: 6.74 min Scan# 1678

Delta R.T. -0.10 min

Lab File: VU035742.D

Acq: 18 Nov 2019 14:19

Instrument :

MSVOA_U

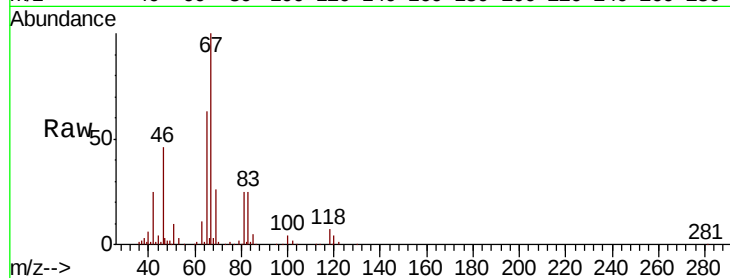
ClientSampleId :

Tot Ion: 63 Resp: 11443

Ion Ratio Lower Upper

63 100

112 0.4 3.4 5.2#



Abundance Ion 63.10 (62.80 to 63.80): VU035735.D (-1690) (-)

Ion 112.10 (111.80 to 112.80): VU035735.D (-1690) (-)

6.74

6000

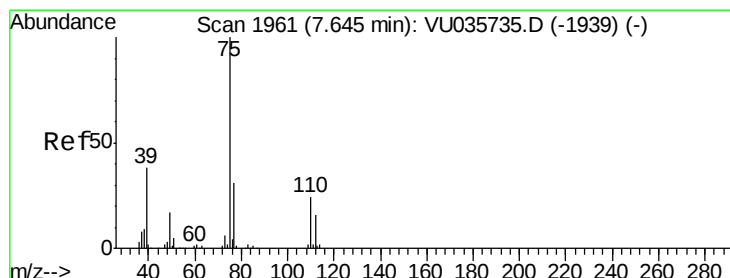
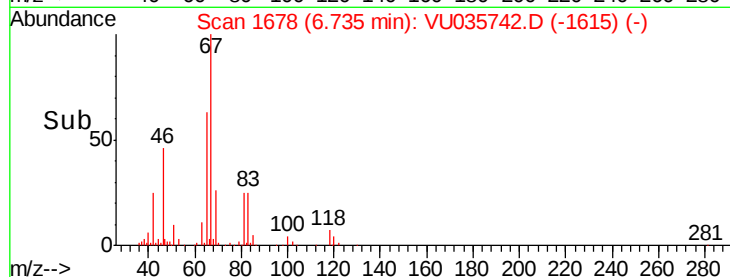
4000

2000

0

6.65 6.70 6.75 6.80

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.083 ug/L

RT: 7.61 min Scan# 1950

Delta R.T. -0.04 min

Lab File: VU035742.D

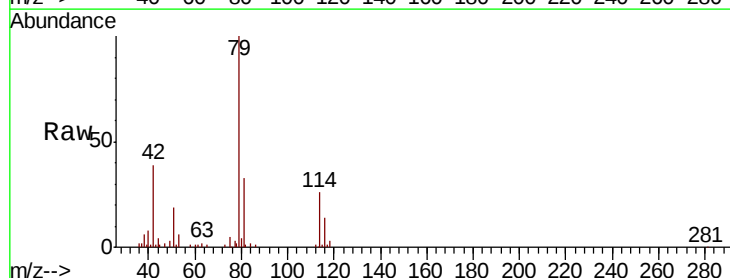
Acq: 18 Nov 2019 14:19

Tgt Ion: 75 Resp: 2542

Ion Ratio Lower Upper

75 100

77 59.0 22.5 41.7#



Abundance Ion 75.05 (74.75 to 75.75): VU035735.D (-1939) (-)

Ion 77.05 (76.75 to 77.75): VU035735.D (-1939) (-)

7.61

1500

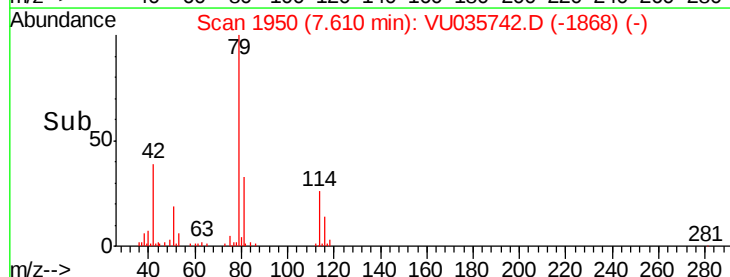
1000

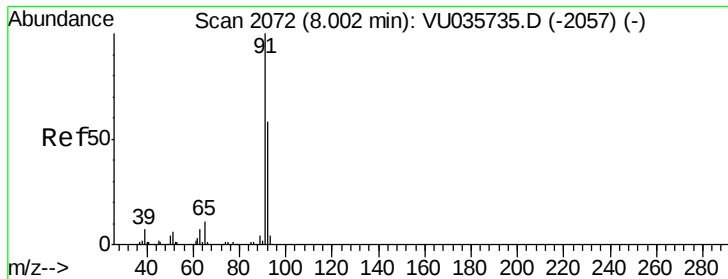
500

0

7.55 7.60 7.65

Time-->





#42

Toluene

Concen: 5.693 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. 0.00 min

Lab File: VU035742.D

Acq: 18 Nov 2019 14:19

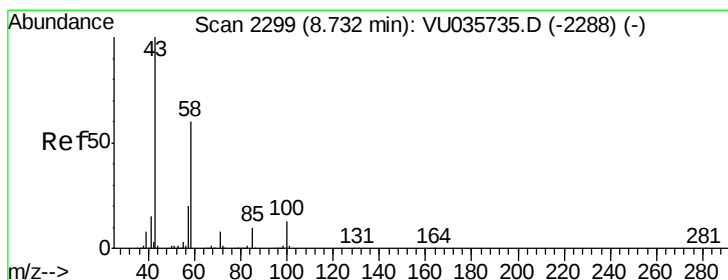
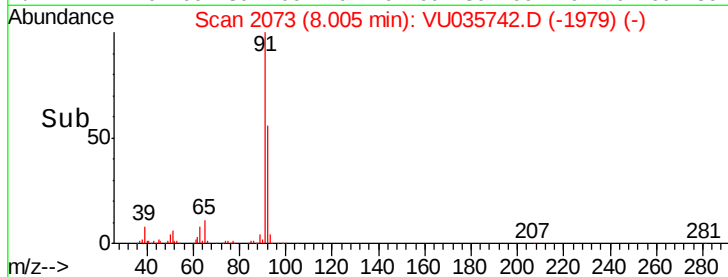
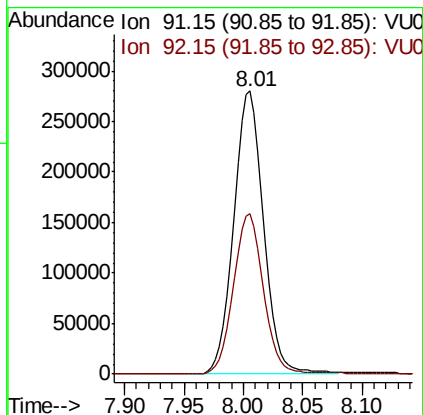
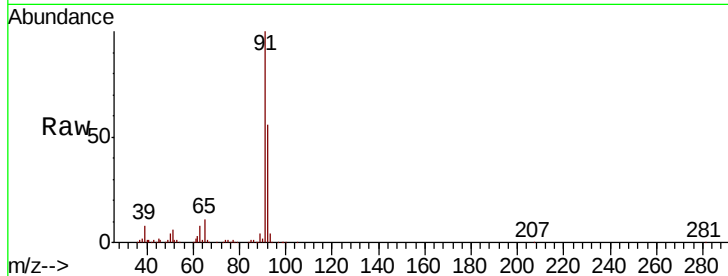
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 488099

Ion Ratio Lower Upper

91 100

92 56.5 40.5 75.3



#48

2-Hexanone

Concen: 2.293 ug/L

RT: 8.73 min Scan# 2298

Delta R.T. -0.00 min

Lab File: VU035742.D

Acq: 18 Nov 2019 14:19

Tgt Ion: 43 Resp: 20115

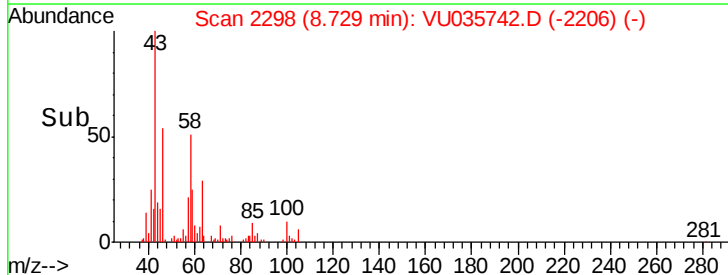
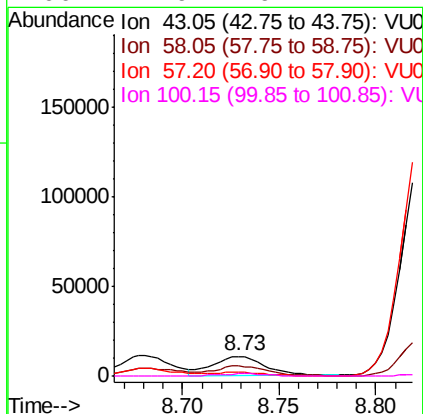
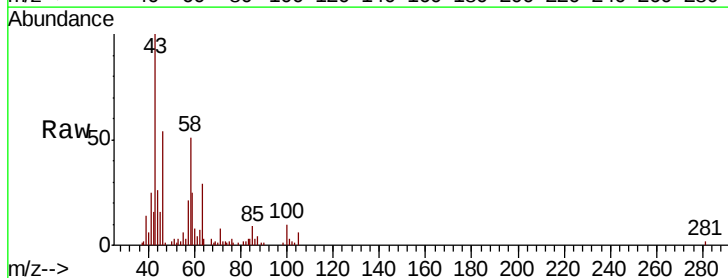
Ion Ratio Lower Upper

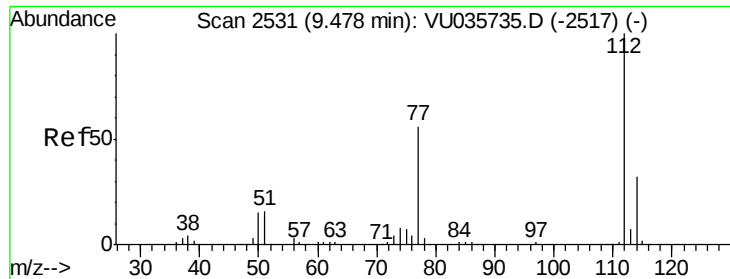
43 100

58 52.0 44.1 66.1

57 0.0 15.1 22.7#

100 11.9 9.4 14.2

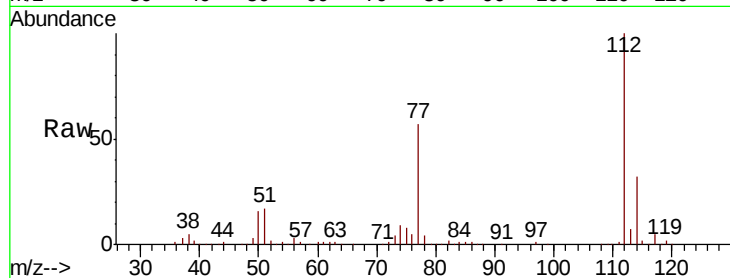




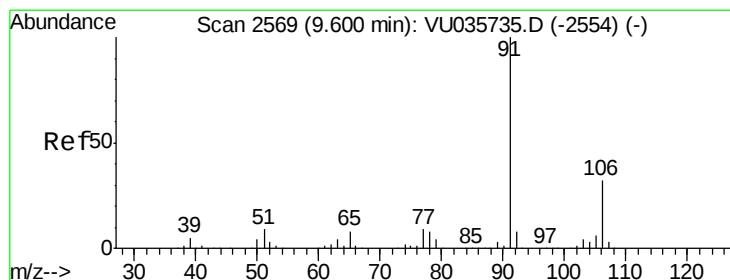
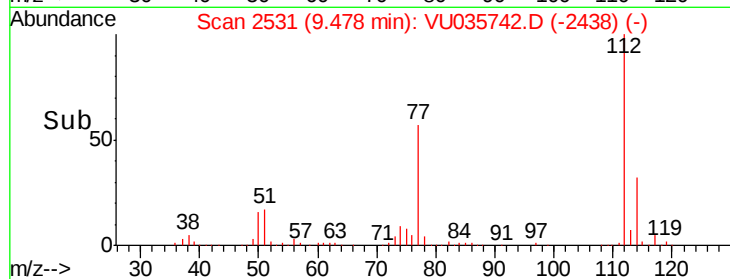
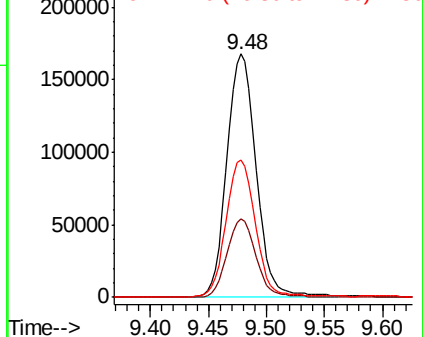
#51
Chlorobenzene
Concen: 5.222 ug/L
RT: 9.48 min Scan# 2531
Delta R.T. 0.00 min
Lab File: VU035742.D
Acq: 18 Nov 2019 14:19

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 112 Resp: 293948
Ion Ratio Lower Upper
112 100
114 32.3 22.3 41.5
77 56.6 44.3 66.5

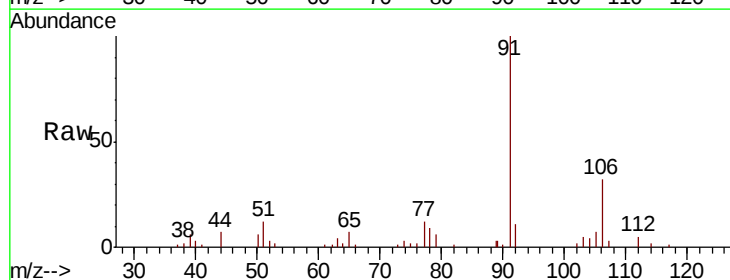


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

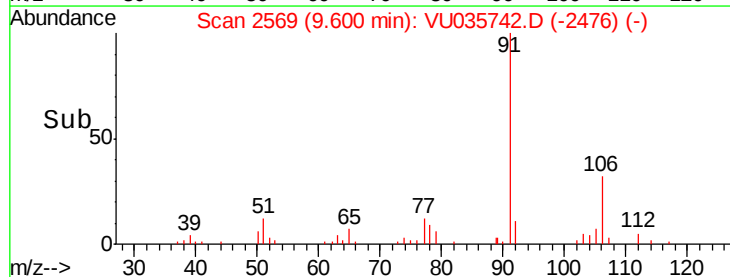
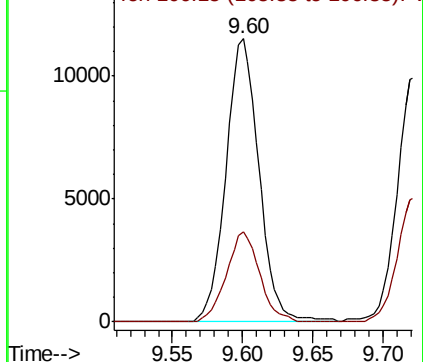


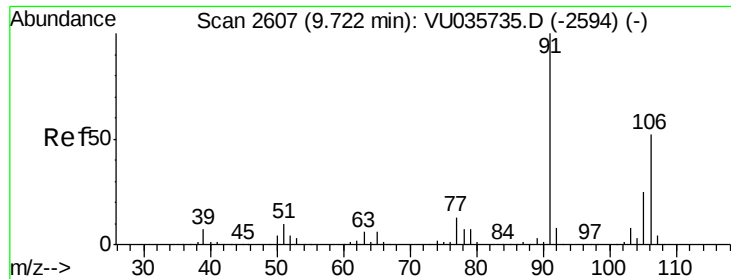
#52
Ethylbenzene
Concen: 0.209 ug/L
RT: 9.60 min Scan# 2569
Delta R.T. 0.00 min
Lab File: VU035742.D
Acq: 18 Nov 2019 14:19

Tgt Ion: 91 Resp: 18886
Ion Ratio Lower Upper
91 100
106 31.7 22.4 41.6



Abundance Ion 91.15 (90.85 to 91.85): V
Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 0.251 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU035742.D

Acq: 18 Nov 2019 14:19

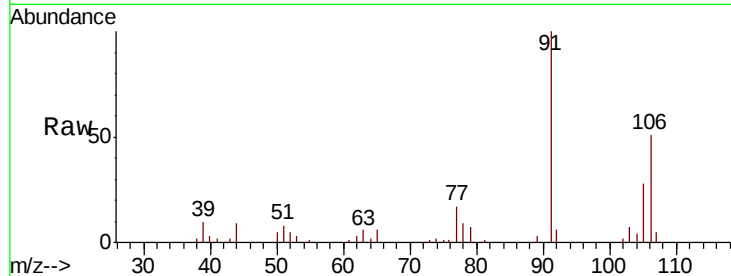
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 8559

Ion Ratio Lower Upper

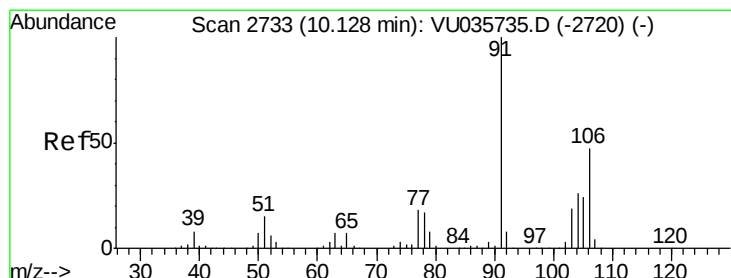
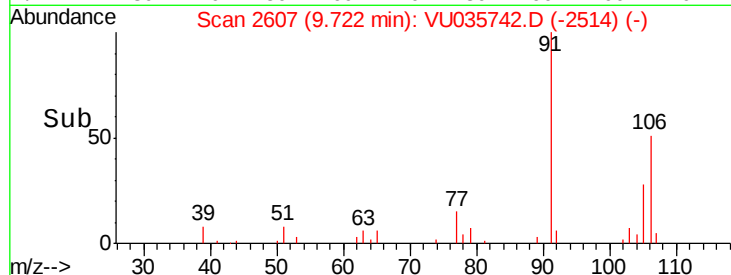
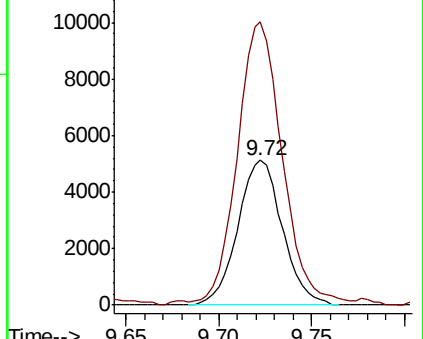
106 100

91 195.1 139.4 259.0



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.107 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU035742.D

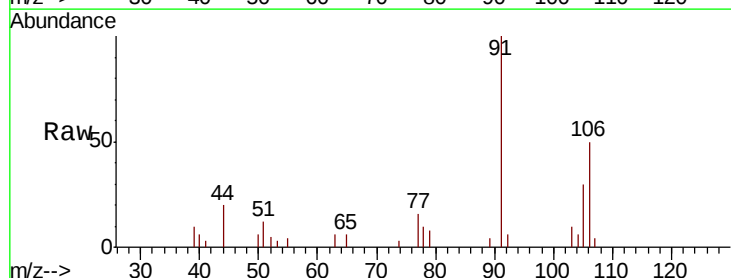
Acq: 18 Nov 2019 14:19

Tgt Ion:106 Resp: 3517

Ion Ratio Lower Upper

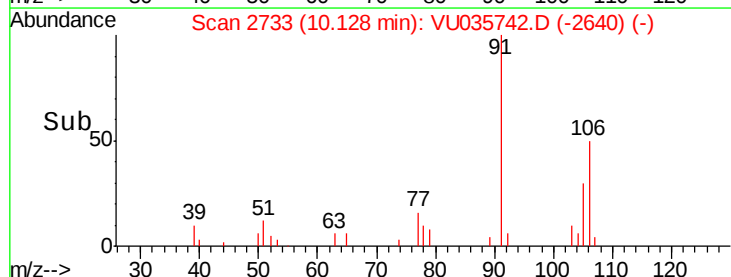
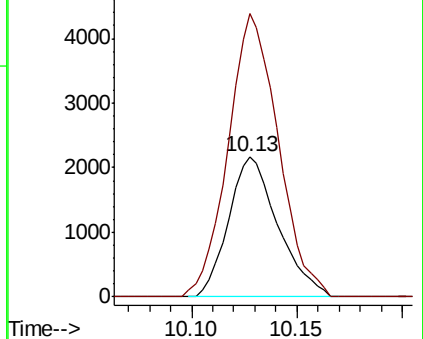
106 100

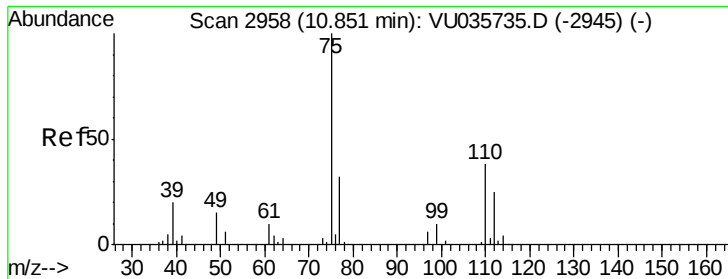
91 201.8 147.7 274.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0

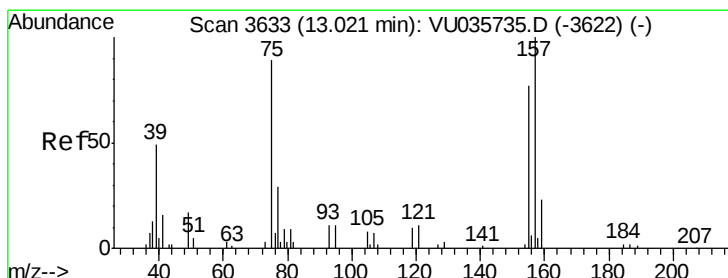
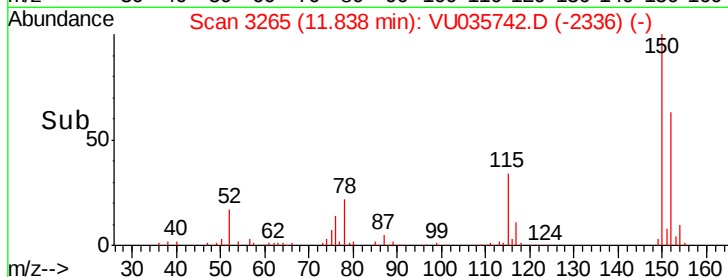
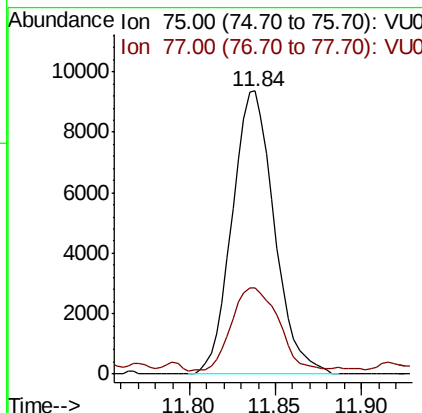
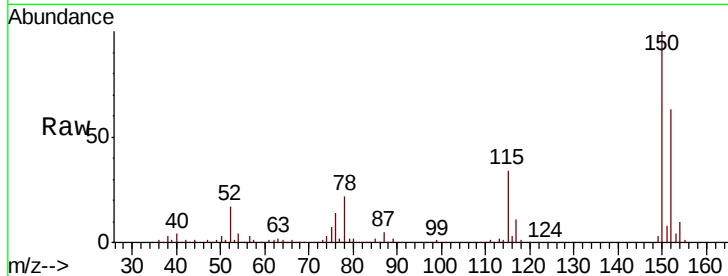




#59
 1,2,3-Trichloropropane
 Concen: 1.120 ug/L
 RT: 11.84 min Scan# 3265
 Delta R.T. 0.99 min
 Lab File: VU035742.D
 Acq: 18 Nov 2019 14:19

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 75 Resp: 15906
 Ion Ratio Lower Upper
 75 100
 77 32.0 26.8 40.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.286 ug/L
 RT: 12.92 min Scan# 3600
 Delta R.T. -0.11 min
 Lab File: VU035742.D
 Acq: 18 Nov 2019 14:19

Tgt Ion: 75 Resp: 802
 Ion Ratio Lower Upper
 75 100
 155 0.0 73.3 109.9#
 157 0.0 102.2 153.4#

