

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091919\
 Data File : VU034676.D
 Acq On : 20 Sep 2019 02:53
 Operator : JC/SP
 Sample : K4895-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFDF6

Quant Time: Sep 20 07:35:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 20 04:02:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	490987	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	468146	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	231546	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	220817	43.93	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.86%
7) Chloroethane-d5	1.67	69	178258	45.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	91.78%
11) 1,1-Dichloroethene-d2	2.26	63	299399	35.17	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.34%
21) 2-Butanone-d5	4.15	46	394857	102.50	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.50%
24) Chloroform-d	4.62	84	316871	43.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.72%
26) 1,2-Dichloroethane-d4	5.29	65	258335	48.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.18%
32) Benzene-d6	5.32	84	698067	48.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.22%
36) 1,2-Dichloropropane-d6	6.31	67	246976	48.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.40%
41) Toluene-d8	7.54	98	674060	48.83	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.66%
43) trans-1,3-Dichloropropene-	7.83	79	114014	46.94	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.88%
47) 2-Hexanone-d5	8.29	63	261965	102.84	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	102.84%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	266366	37.85	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	75.70%
64) 1,2-Dichlorobenzene-d4	11.84	152	237988	49.02	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.04%

Target Compounds

					Ovalue
13) Acetone	2.31	43	22766	5.080	ug/L 93
16) Methylene chloride	2.69	84	4580	1.126	ug/L 99
17) trans-1,2-Dichloroethene	2.96	96	4737	1.349	ug/L 77
20) cis-1,2-Dichloroethene	4.20	96	11220	2.732	ug/L 95
29) Cyclohexane	4.97	56	6713	0.869	ug/L # 63
33) Benzene	5.37	78	88067	5.424	ug/L 100
34) Trichloroethene	6.16	95	31674	7.899	ug/L 97
35) Methylcyclohexane	6.39	83	14370	2.112	ug/L 96
42) Toluene	7.61	91	1666596	94.978	ug/L 98
46) Tetrachloroethene	8.21	164	59114	20.958	ug/L 92
51) Chlorobenzene	9.10	112	14958	1.402	ug/L 95
52) Ethylbenzene	9.23	91	732398	37.065	ug/L 99
53) m,p-Xylene	9.35	106	1376445	196.671	ug/L 97
54) o-xylene	9.76	106	999897	144.445	ug/L 95
56) Isopropylbenzene	10.14	105	84403	4.522	ug/L 98
62) 1,3-Dichlorobenzene	11.40	146	18313	2.284	ug/L 91
63) 1,4-Dichlorobenzene	11.48	146	36496	4.468	ug/L 95

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QLast Update : Fri Sep 20 04:02:05 2019
Response via : Initial Calibration

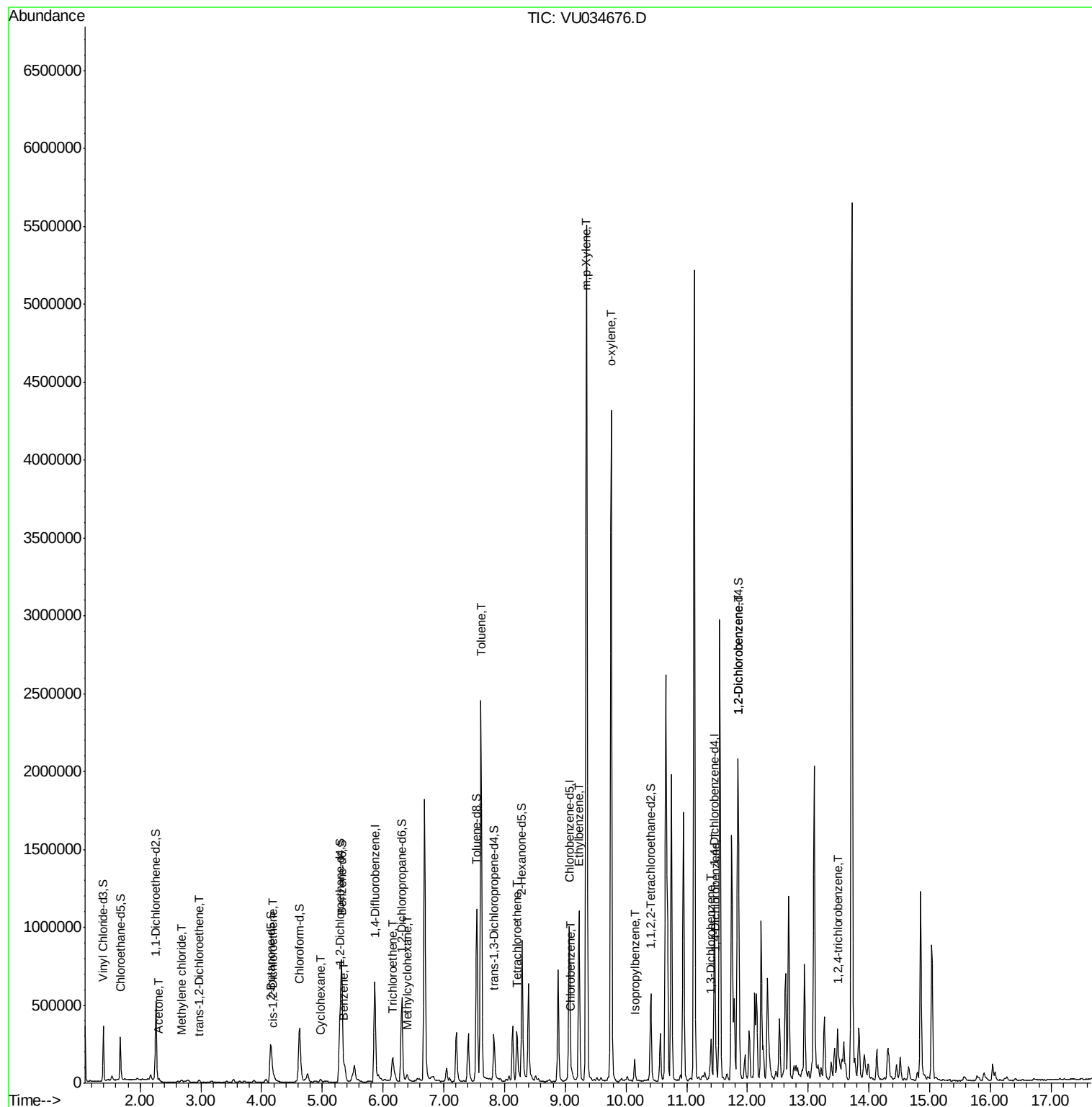
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,2-Dichlorobenzene	11.85	146	250050	30.863	ug/L	97
68) 1,2,4-trichlorobenzene	13.48	180	9213	2.181	ug/L #	59

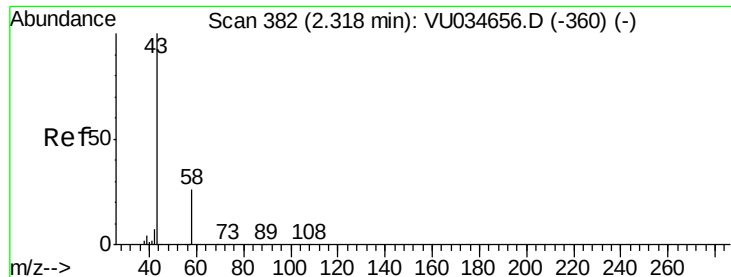
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 5.080 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.01 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

Instrument :

MSVOA_U

ClientSampleId :

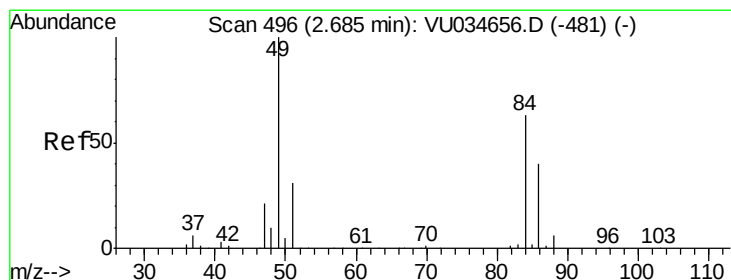
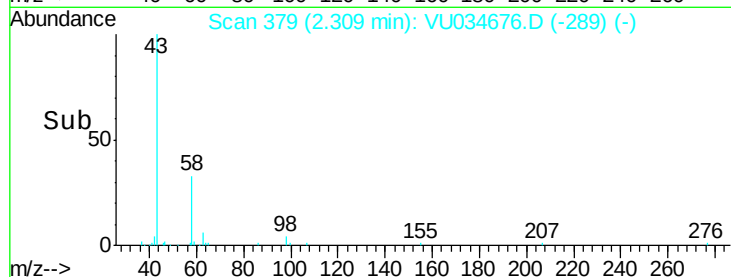
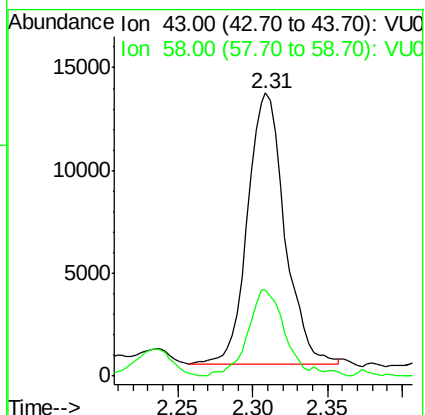
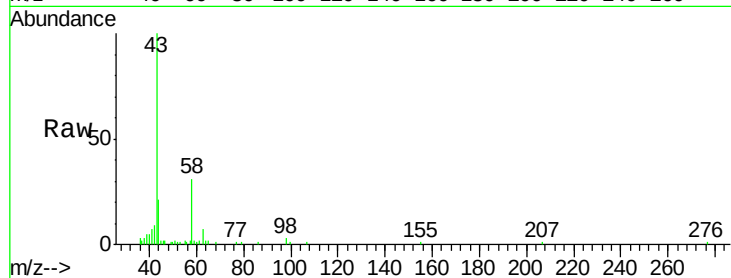
BPDF6

Tot Ion: 43 Resp: 22766

Ion Ratio Lower Upper

43 100

58 30.5 0.0 53.4



#16

Methylene chloride

Concen: 1.126 ug/L

RT: 2.69 min Scan# 497

Delta R.T. 0.00 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

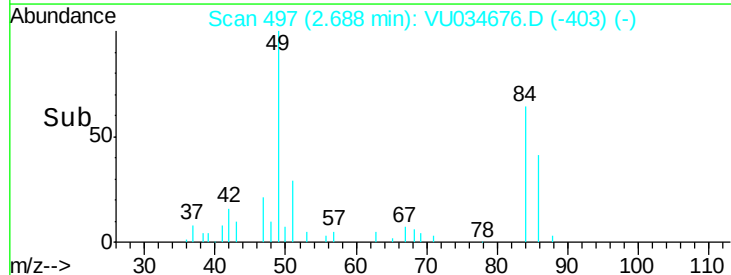
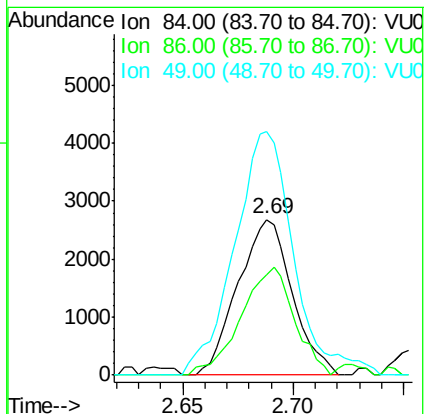
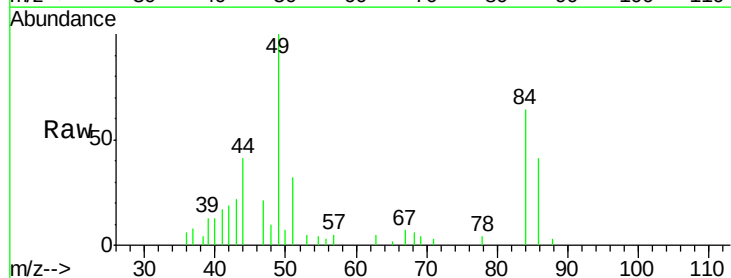
Tgt Ion: 84 Resp: 4580

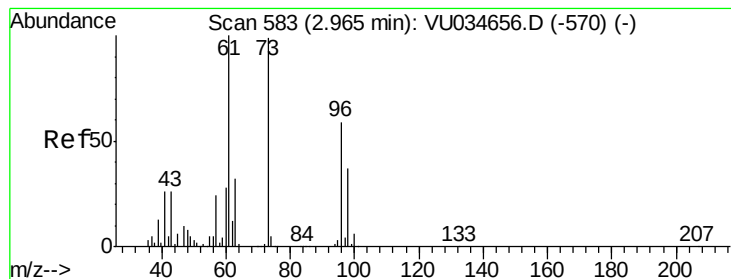
Ion Ratio Lower Upper

84 100

86 64.5 43.0 80.0

49 156.7 109.7 203.7





#17

trans-1,2-Dichloroethene

Concen: 1.349 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

Instrument :

MSVOA_U

ClientSampleId :

BPDF6

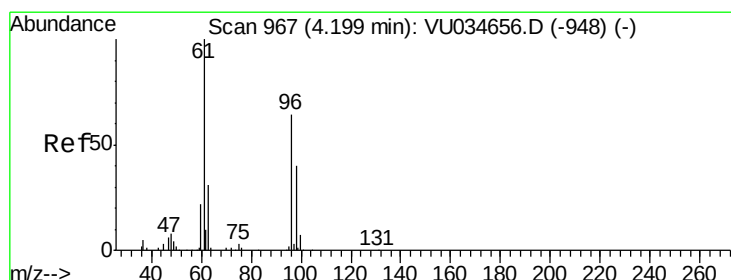
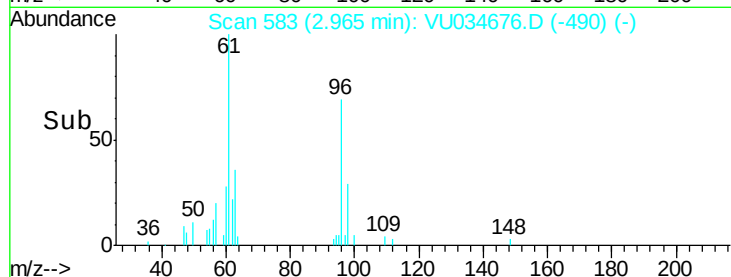
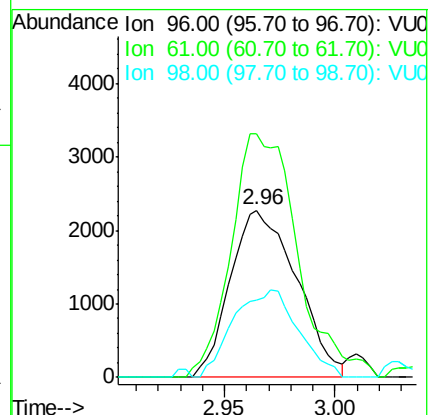
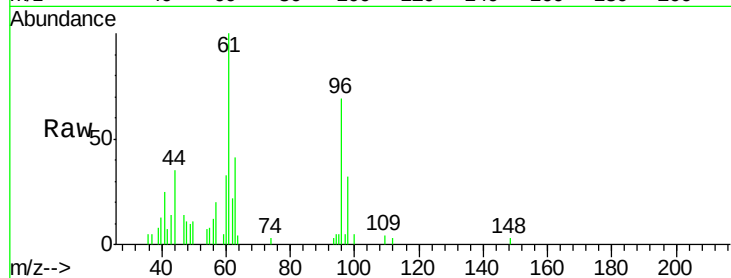
Tot Ion: 96 Resp: 4737

Ion Ratio Lower Upper

96 100

61 145.7 124.0 230.4

98 46.4 46.1 85.7



#20

cis-1,2-Dichloroethene

Concen: 2.732 ug/L

RT: 4.20 min Scan# 967

Delta R.T. 0.00 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

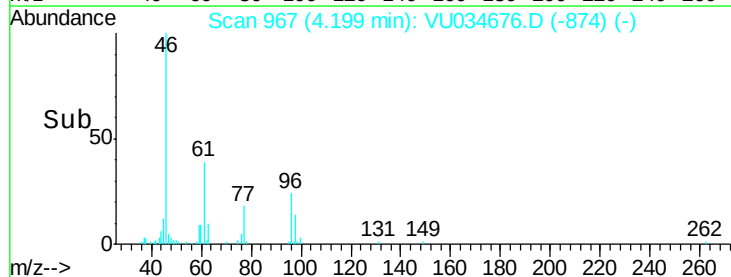
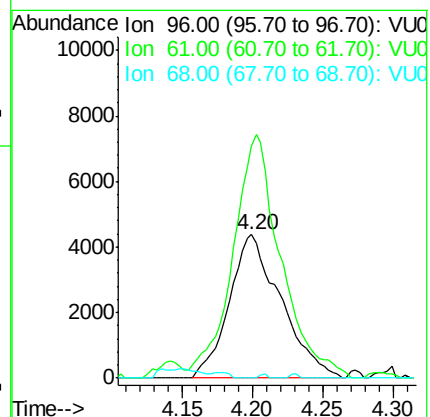
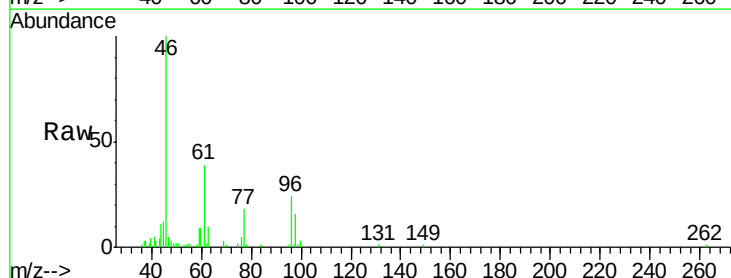
Tgt Ion: 96 Resp: 11220

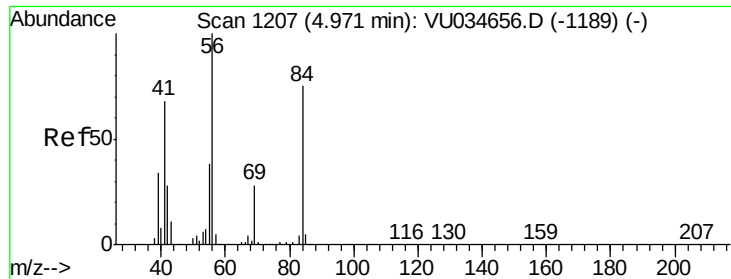
Ion Ratio Lower Upper

96 100

61 161.5 108.8 202.2

68 0.0 0.0 0.0

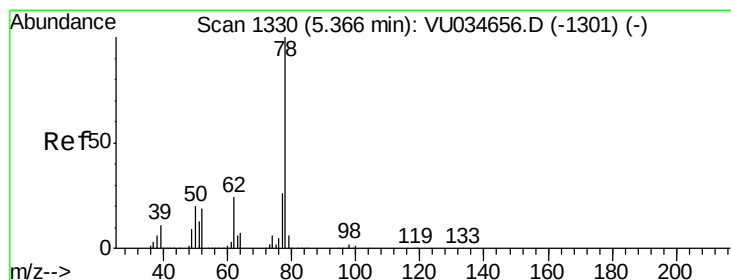
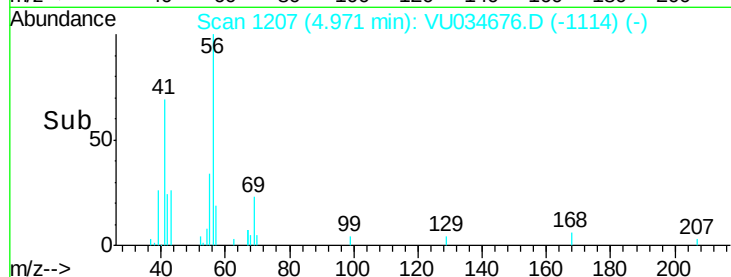
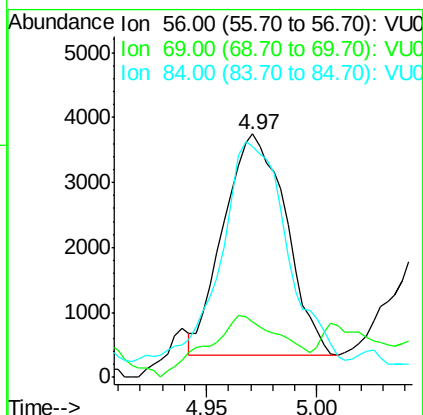
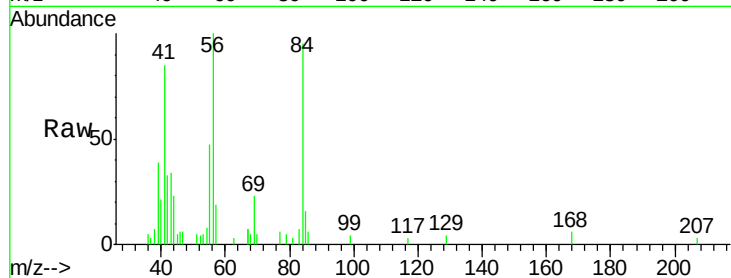




#29
Cyclohexane
Concen: 0.869 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU034676.D
Acq: 20 Sep 2019 02:53

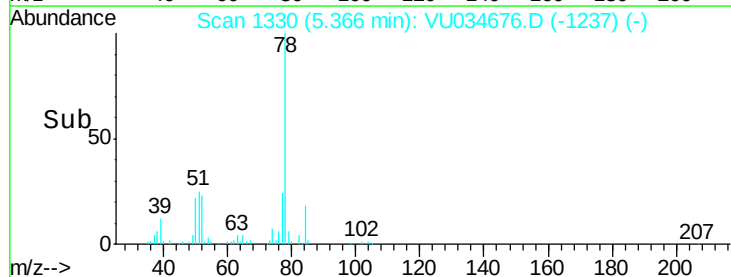
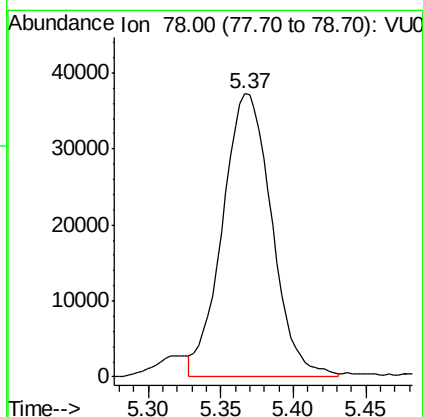
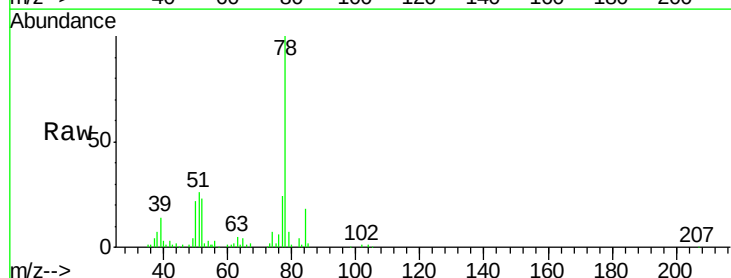
Instrument :
MSVOA_U
ClientSampleId :
BPDF6

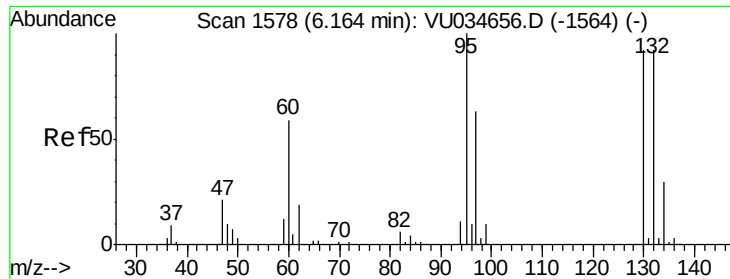
Tot Ion: 56 Resp: 6713
Ion Ratio Lower Upper
56 100
69 11.9 21.7 32.5#
84 106.6 58.8 88.2#



#33
Benzene
Concen: 5.424 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU034676.D
Acq: 20 Sep 2019 02:53

Tgt Ion: 78 Resp: 88067





#34

Trichloroethene

Concen: 7.899 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

Instrument :

MSVOA_U

ClientSampled :

BPDF6

Tot Ion: 95 Resp: 31674

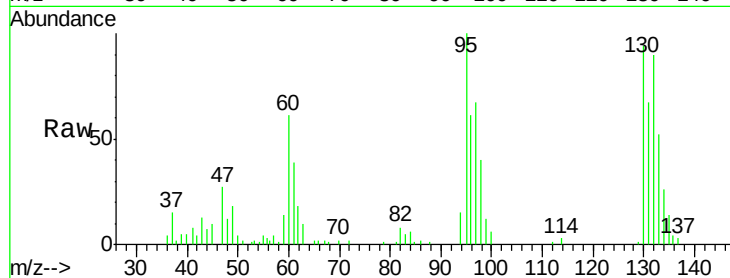
Ion Ratio Lower Upper

95 100

97 66.6 43.7 81.1

132 89.8 61.0 113.2

130 94.3 65.7 121.9

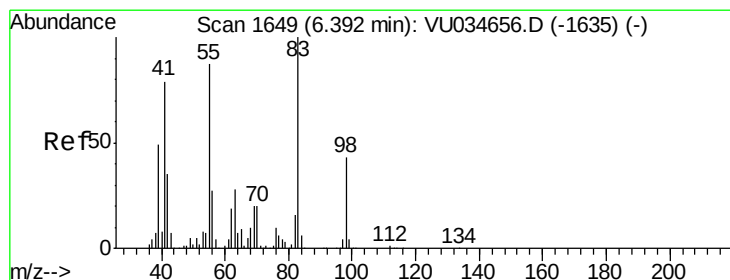
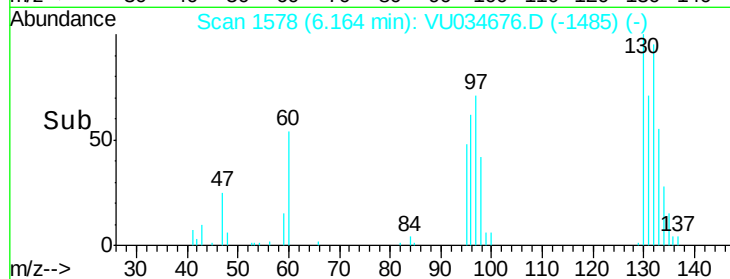
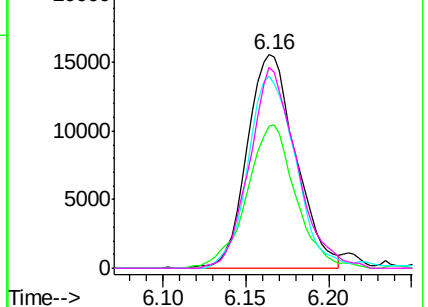


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 2.112 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

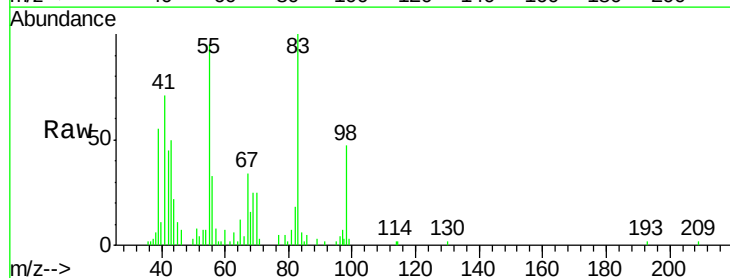
Tgt Ion: 83 Resp: 14370

Ion Ratio Lower Upper

83 100

55 94.4 71.6 107.4

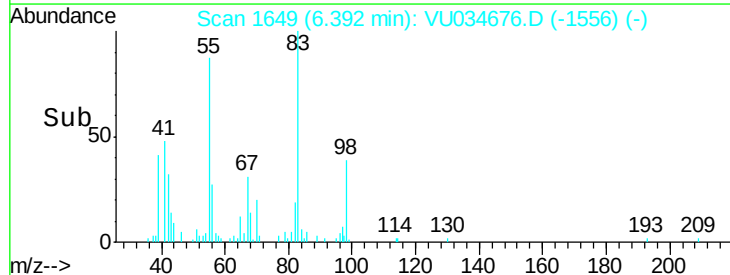
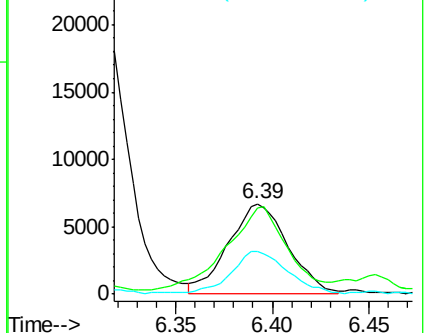
98 45.0 35.7 53.5

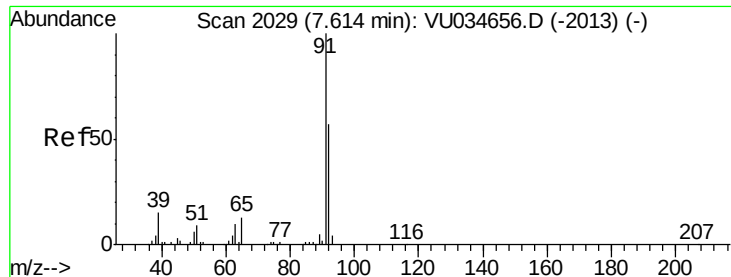


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#42

Toluene

Concen: 94.978 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. 0.00 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

Instrument :

MSVOA_U

ClientSampled :

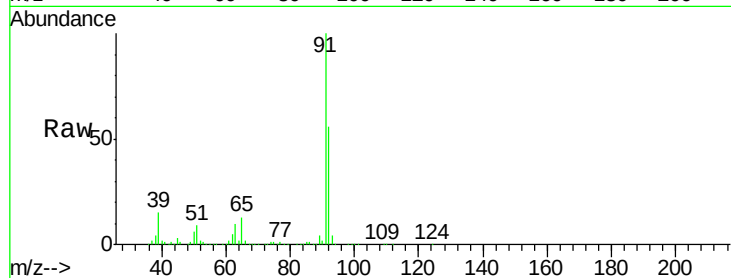
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Tot Ion: 91 Resp: 1666596

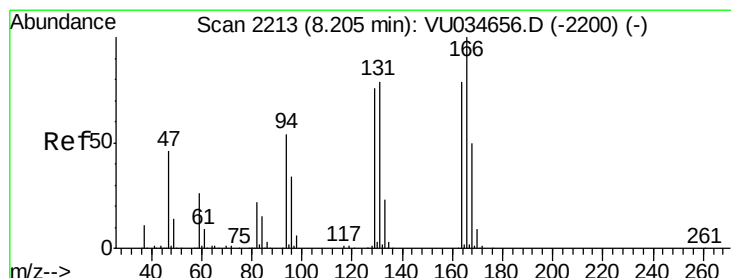
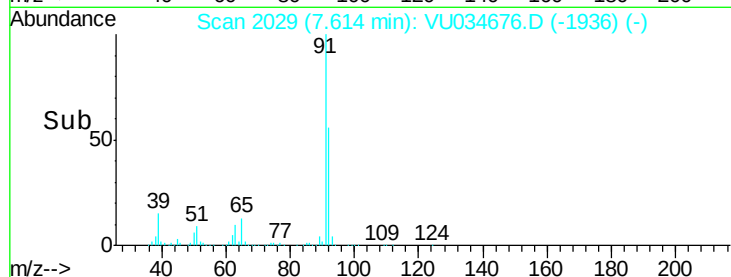
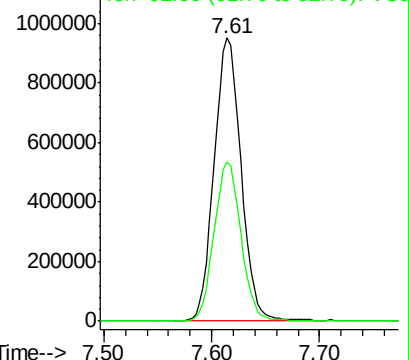
Ion Ratio Lower Upper

91 100

92 56.3 38.2 71.0



Abundance Ion 91.00 (90.70 to 91.70): VU034676.D (-2120) (-)



#46

Tetrachloroethene

Concen: 20.958 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. 0.00 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

Tgt Ion: 164 Resp: 59114

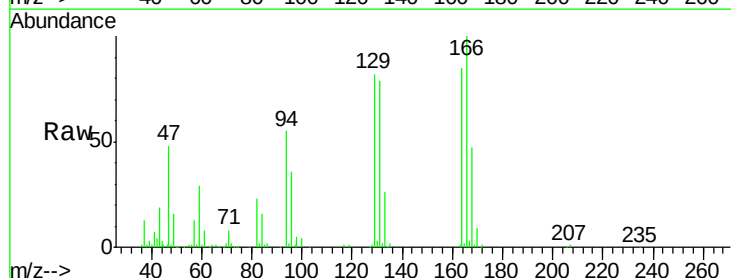
Ion Ratio Lower Upper

164 100

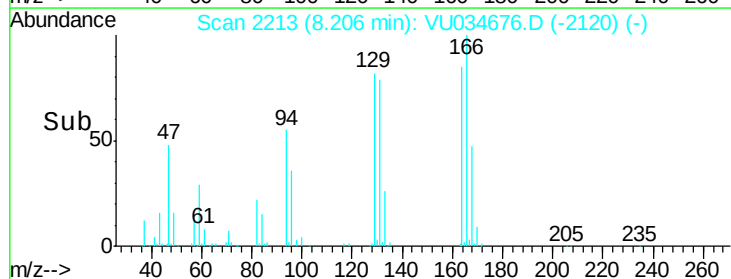
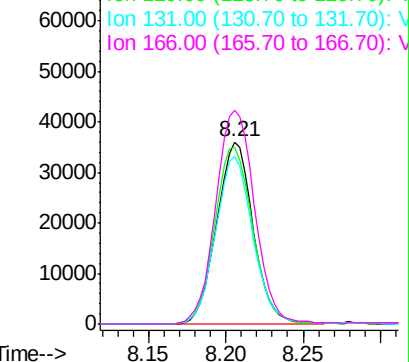
129 96.6 71.9 133.5

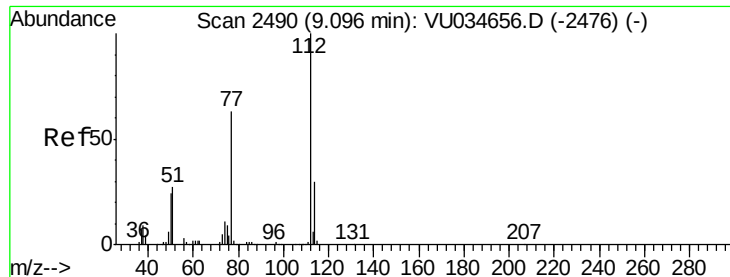
131 92.4 66.3 123.1

166 117.2 93.4 173.6



Abundance Ion 164.00 (163.70 to 164.70): VU034676.D (-2120) (-)

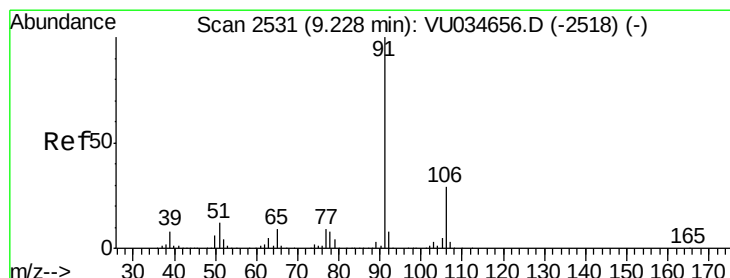
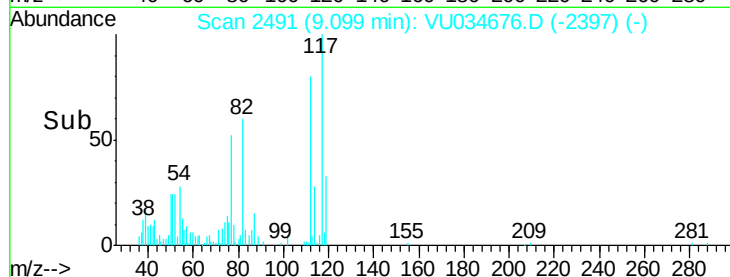
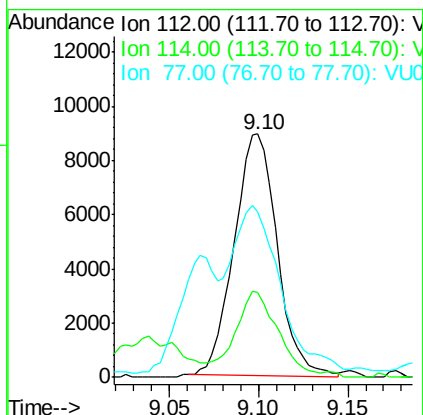
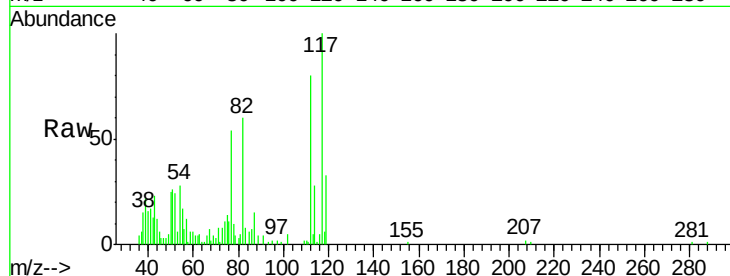




#51
Chlorobenzene
Concen: 1.402 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU034676.D
Acq: 20 Sep 2019 02:53

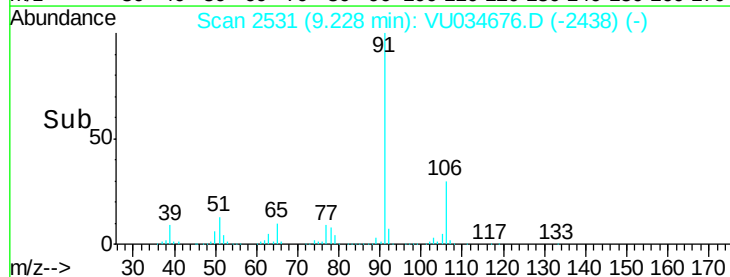
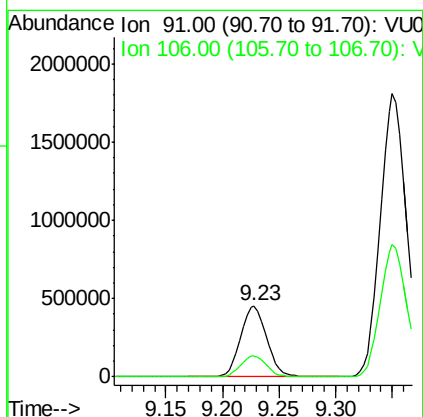
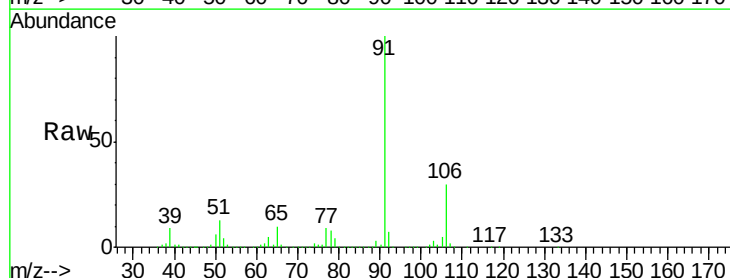
Instrument :
MSVOA_U
ClientSampleId :
BPDF6

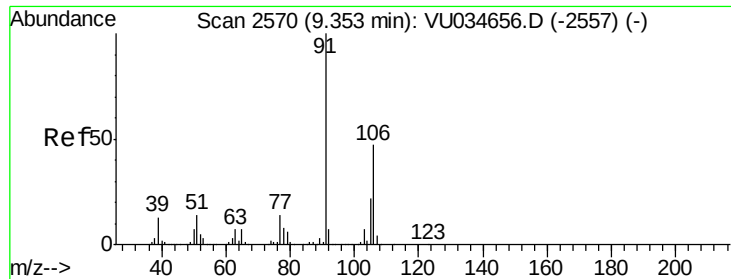
Tot Ion	Ratio	Lower	Upper
112	100		
114	35.1	22.8	42.4
77	68.2	51.5	77.3



#52
Ethylbenzene
Concen: 37.065 ug/L
RT: 9.23 min Scan# 2531
Delta R.T. 0.00 min
Lab File: VU034676.D
Acq: 20 Sep 2019 02:53

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.9	20.6	38.4





#53

m,p-Xylene

Concen: 196.671 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

Instrument :

MSVOA_U

ClientSampleId :

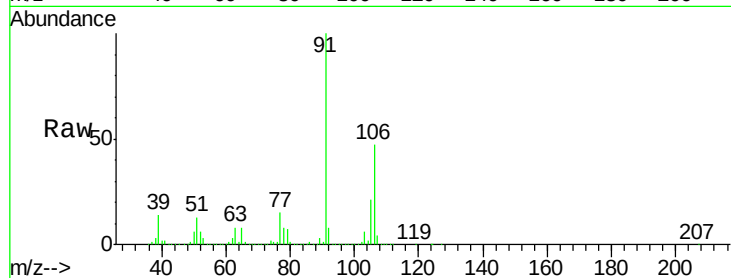
BPDF6

Tot Ion:106 Resp: 1376445

Ion Ratio Lower Upper

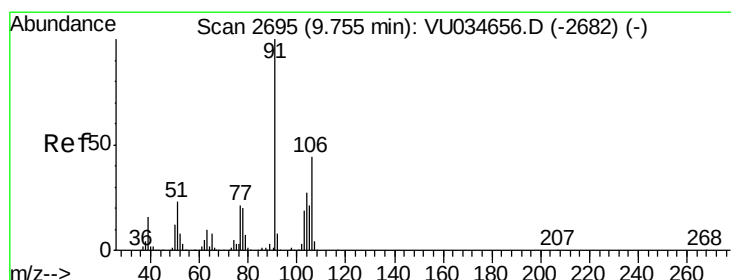
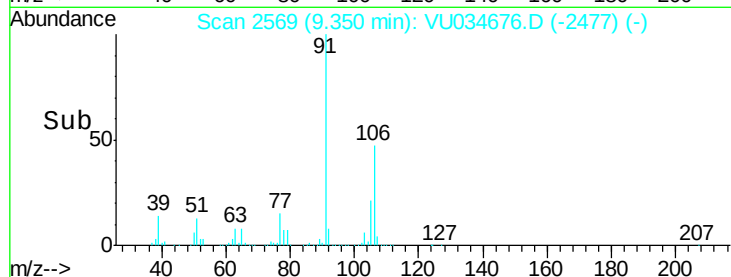
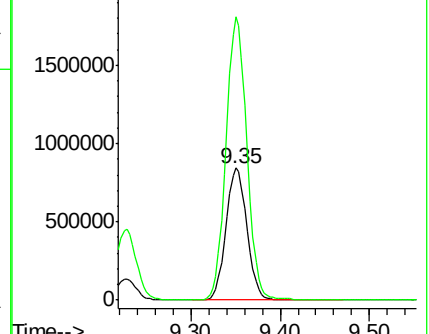
106 100

91 214.2 146.9 272.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 144.445 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU034676.D

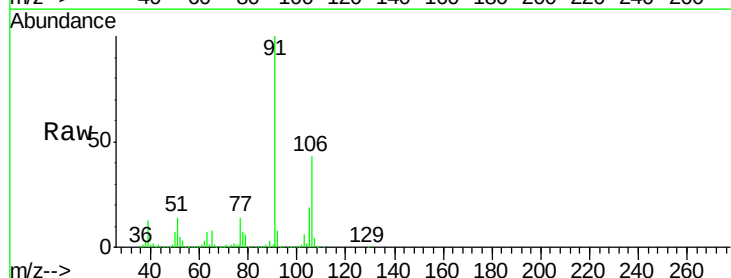
Acq: 20 Sep 2019 02:53

Tgt Ion:106 Resp: 999897

Ion Ratio Lower Upper

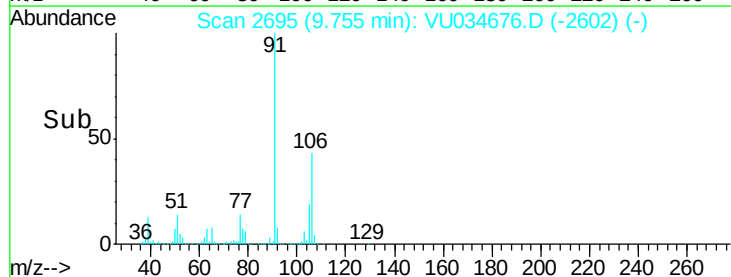
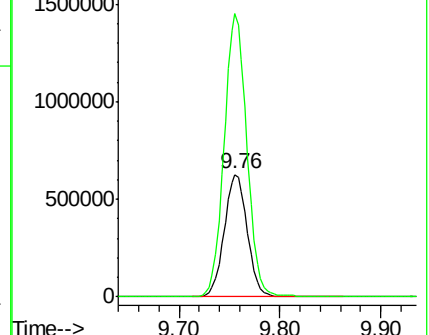
106 100

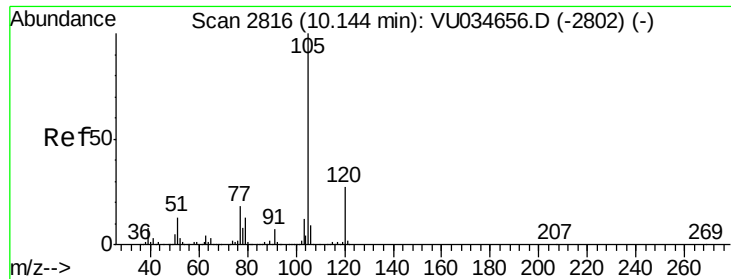
91 230.9 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#56

Isopropylbenzene

Concen: 4.522 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

Instrument :

MSVOA_U

ClientSampleId :

BDF6

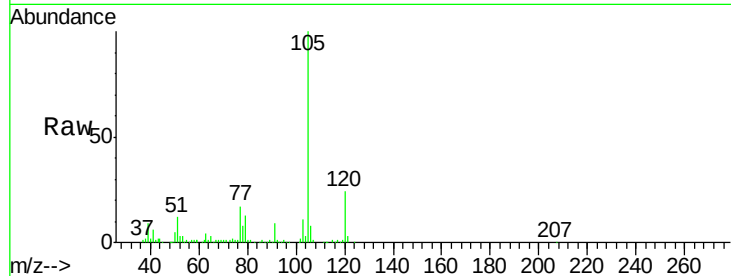
Tot Ion:105 Resp: 84403

Ion Ratio Lower Upper

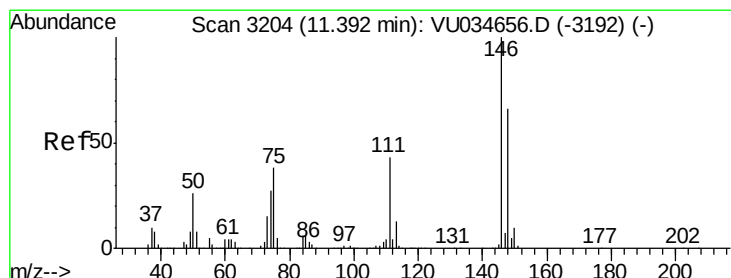
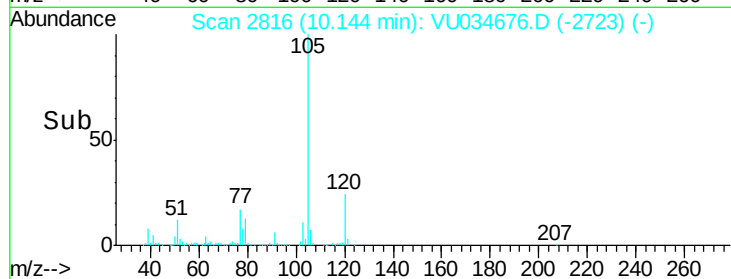
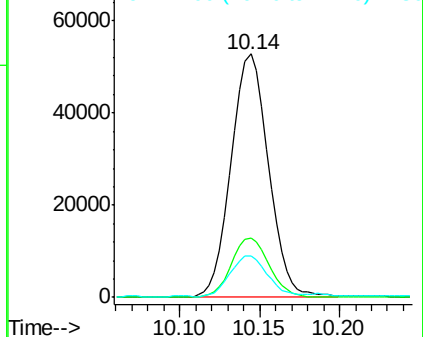
105 100

120 24.5 20.4 30.6

77 16.5 14.2 21.4



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V
Ion 77.00 (76.70 to 77.70): V



#62

1,3-Dichlorobenzene

Concen: 2.284 ug/L

RT: 11.40 min Scan# 3205

Delta R.T. 0.00 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

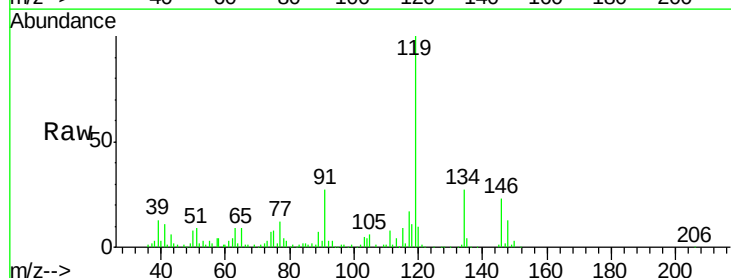
Tgt Ion:146 Resp: 18313

Ion Ratio Lower Upper

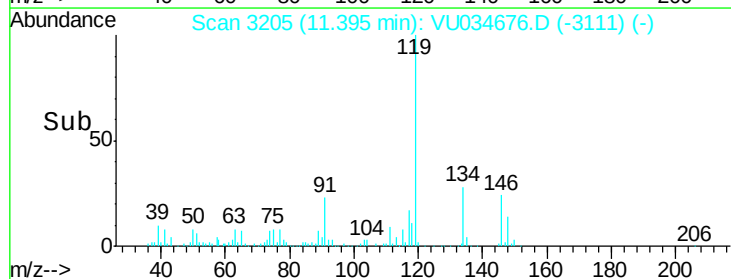
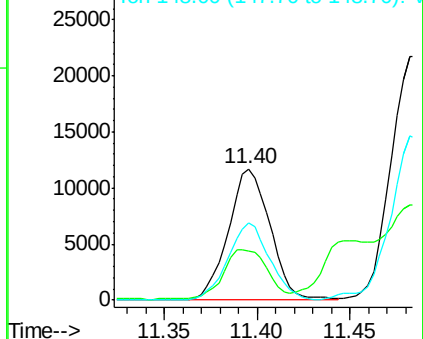
146 100

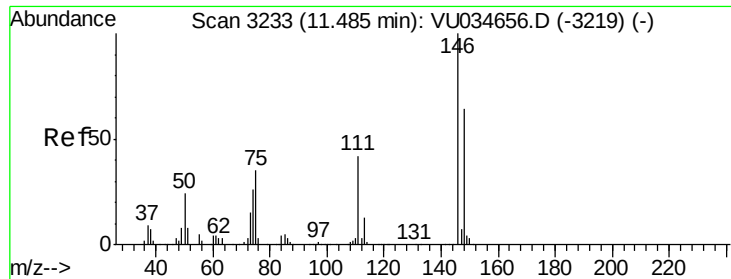
111 37.2 30.4 56.5

148 58.9 46.1 85.7



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#63

1,4-Dichlorobenzene

Concen: 4.468 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. -0.00 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

Instrument :

MSVOA_U

ClientSampleId :

BDF6

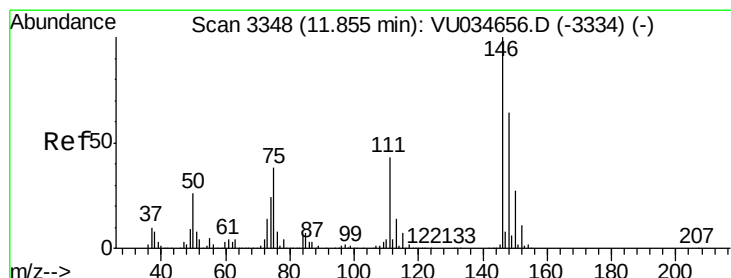
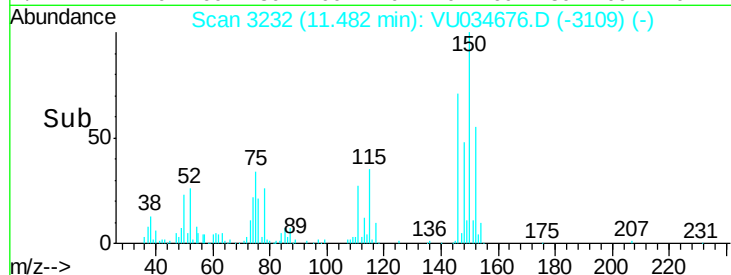
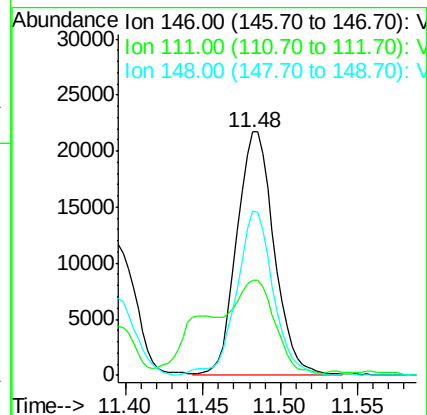
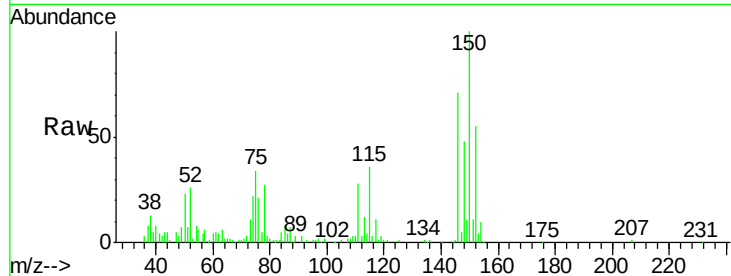
Tot Ion:146 Resp: 36496

Ion Ratio Lower Upper

146 100

111 39.1 29.5 54.9

148 67.4 44.4 82.4



#65

1,2-Dichlorobenzene

Concen: 30.863 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. 0.00 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

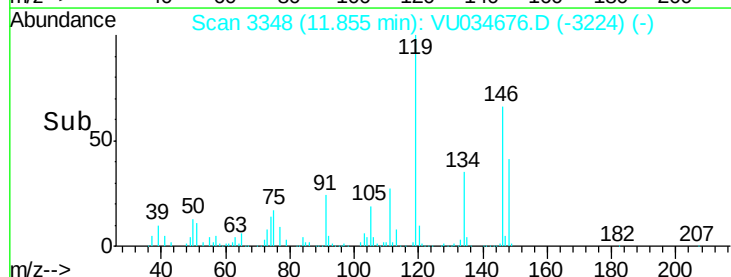
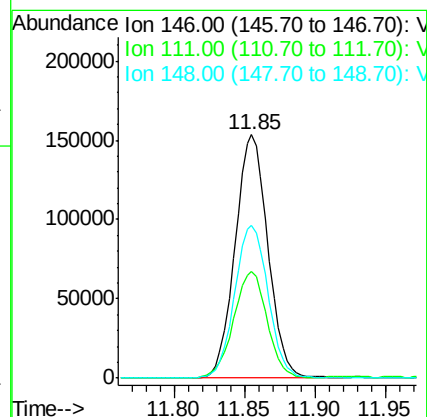
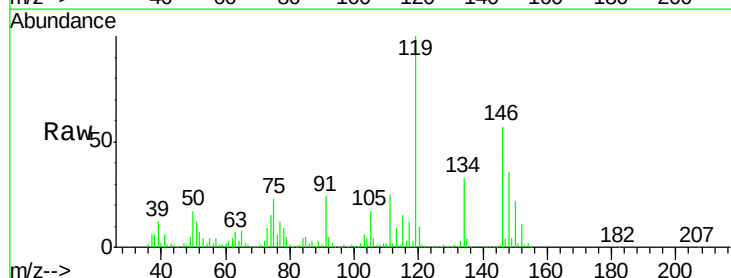
Tgt Ion:146 Resp: 250050

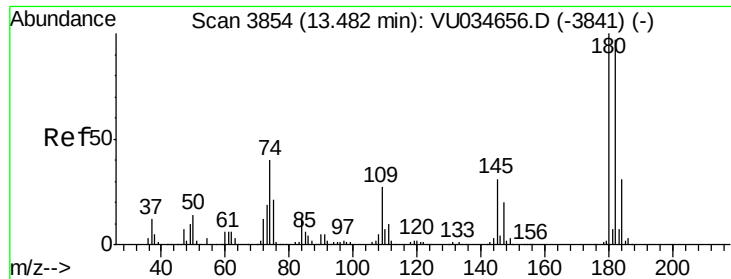
Ion Ratio Lower Upper

146 100

111 43.9 35.2 52.8

148 62.7 53.0 79.6





#68
 1,2,4-trichlorobenzene
 Concen: 2.181 ug/L
 RT: 13.48 min Scan# 3854
 Delta R.T. 0.00 min
 Lab File: VU034676.D
 Acq: 20 Sep 2019 02:53

Instrument :
 MSVOA_U
 ClientSampleId :
 BPDF6

Tot Ion:180 Resp: 9213
 Ion Ratio Lower Upper
 180 100
 182 90.5 75.7 113.5
 145 115.0 25.2 37.8#

