

Data File : VU034672.D
Acq On : 20 Sep 2019 01:20
Operator : JC/SP
Sample : K4895-19
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFDH4

Quant Time: Sep 20 04:10:19 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	498615	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	480379	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	228592	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	225808	44.24	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	88.48%
7) Chloroethane-d5	1.67	69	186554	47.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	94.58%
11) 1,1-Dichloroethene-d2	2.26	63	301950	34.93	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.86%
21) 2-Butanone-d5	4.15	46	425878	108.86	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.86%
24) Chloroform-d	4.62	84	354787	47.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.62%
26) 1,2-Dichloroethane-d4	5.29	65	263361	48.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.56%
32) Benzene-d6	5.32	84	718469	48.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.50%
36) 1,2-Dichloropropane-d6	6.31	67	252688	48.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.10%
41) Toluene-d8	7.54	98	679092	47.94	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.88%
43) trans-1,3-Dichloropropene-	7.83	79	116184	46.61	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.22%
47) 2-Hexanone-d5	8.29	63	280031	107.13	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	107.13%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	341566	47.30	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.60%
64) 1,2-Dichlorobenzene-d4	11.84	152	237052	49.45	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.90%

Target Compounds

					Qvalue
10) 1,1,2-Trichloro-1,2,2-trif	2.26	101	2474	0.728 ug/L #	31
13) Acetone	2.31	43	113401	24.919 ug/L	99
15) Methyl Acetate	2.61	43	6641	1.092 ug/L #	72
16) Methylene chloride	2.69	84	4072	0.985 ug/L	83
19) 1,1-Dichloroethane	3.43	63	10754	1.314 ug/L	100
20) cis-1,2-Dichloroethene	4.20	96	60179	14.430 ug/L	97
22) 2-Butanone	4.24	43	12022	2.221 ug/L	90
29) Cyclohexane	4.97	56	11082	1.398 ug/L #	62
33) Benzene	5.37	78	384256	23.064 ug/L	100
34) Trichloroethene	6.17	95	4910	1.193 ug/L	85
35) Methylcyclohexane	6.39	83	8706	1.247 ug/L #	80
40) 4-Methyl-2-pentanone	7.44	43	56648	5.981 ug/L	91
42) Toluene	7.61	91	3237296	179.793 ug/L	99
52) Ethylbenzene	9.23	91	680520	33.563 ug/L	100
53) m,p-Xylene	9.35	106	903439	125.799 ug/L	98
54) o-xylene	9.76	106	539734	75.984 ug/L	98
56) Isopropylbenzene	10.14	105	48634	2.539 ug/L	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091919\
Quantitation Report (Not Reviewed)

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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

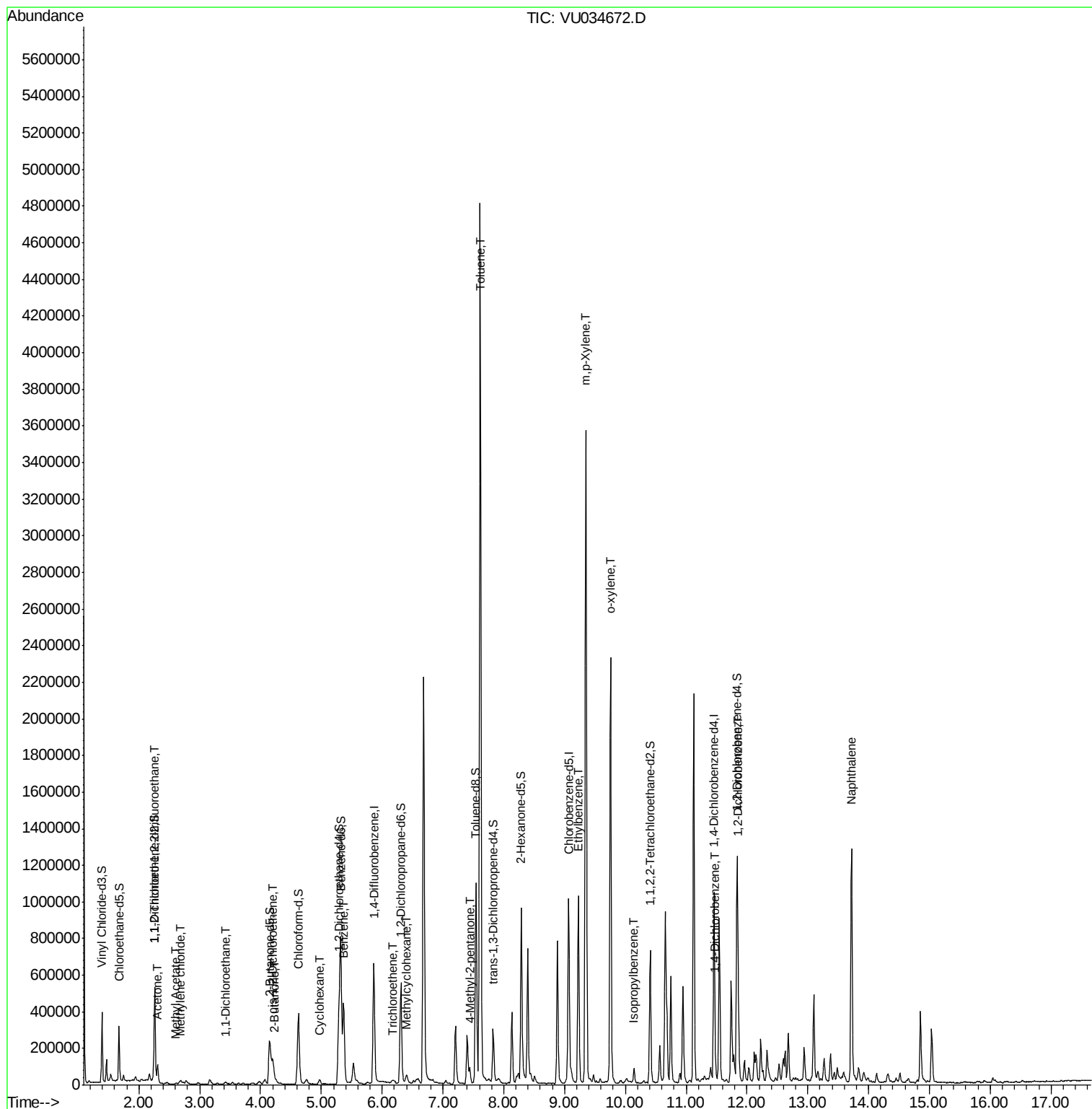
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,4-Dichlorobenzene	11.49	146	11046	1.370	ug/L	93
65) 1,2-Dichlorobenzene	11.85	146	103167	12.898	ug/L	99
69) Naphthalene	13.72	128	922363	63.878	ug/L	100

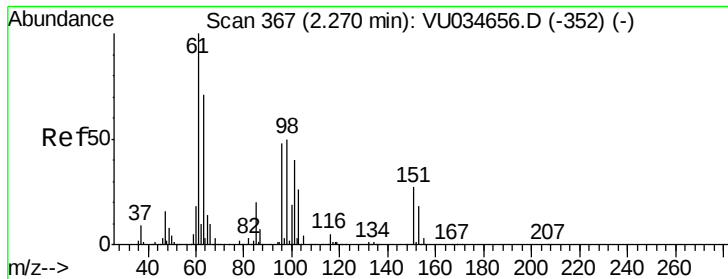
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Sep 20 04:02:05 2019
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#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.728 ug/L

RT: 2.26 min Scan# 364

Delta R.T. -0.01 min

Lab File: VU034672.D

Acq: 20 Sep 2019 01:20

Instrument :

MSVOA_U

ClientSampleId :

BFDH4

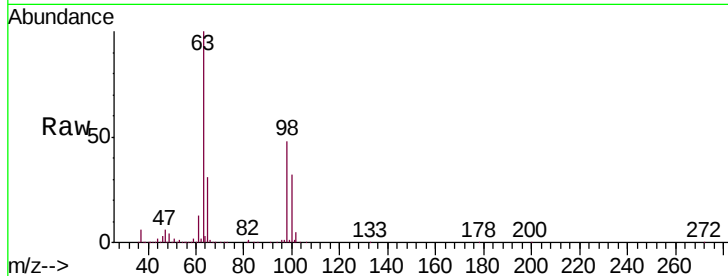
Tgt Ion:101 Resp: 2474

Ion Ratio Lower Upper

101 100

85 12.2 39.0 58.4#

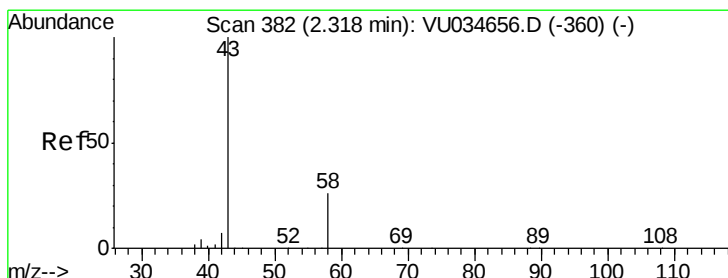
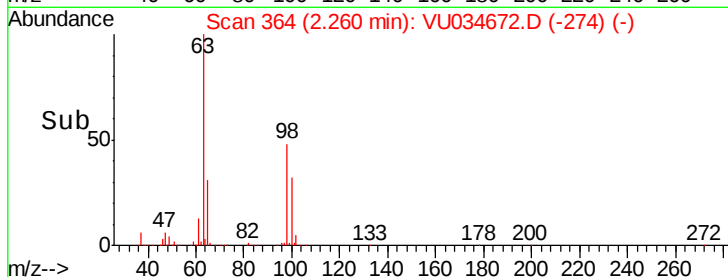
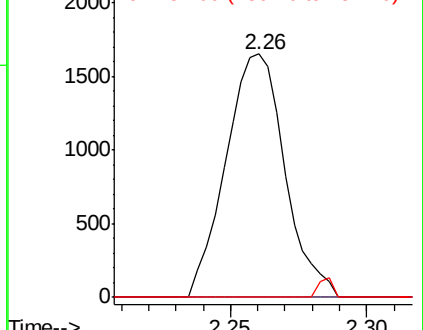
151 1.9 52.8 79.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#13

Acetone

Concen: 24.919 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VU034672.D

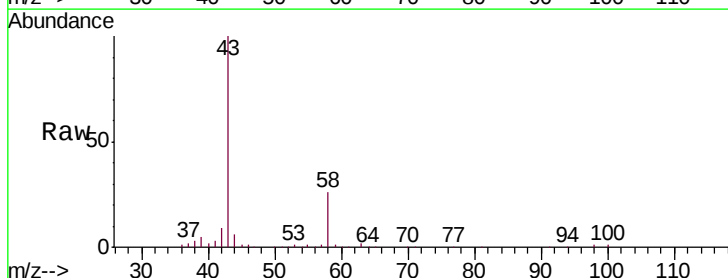
Acq: 20 Sep 2019 01:20

Tgt Ion: 43 Resp: 113401

Ion Ratio Lower Upper

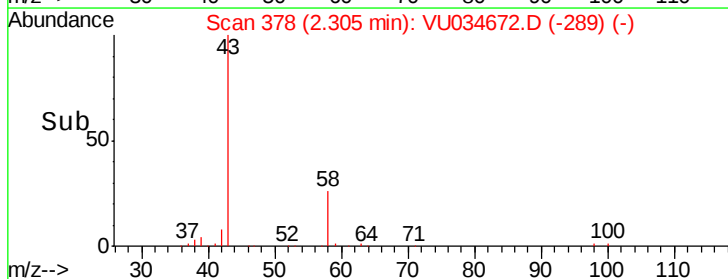
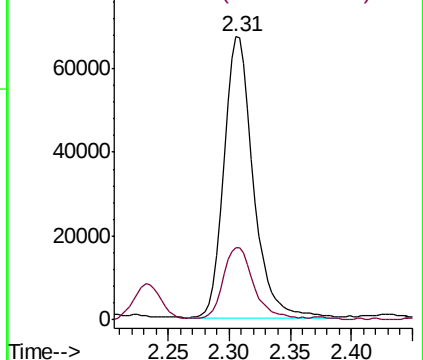
43 100

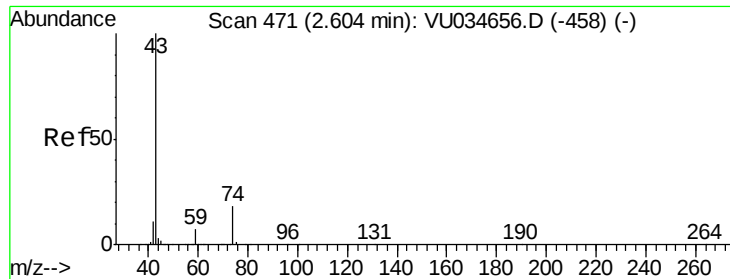
58 27.2 0.0 53.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

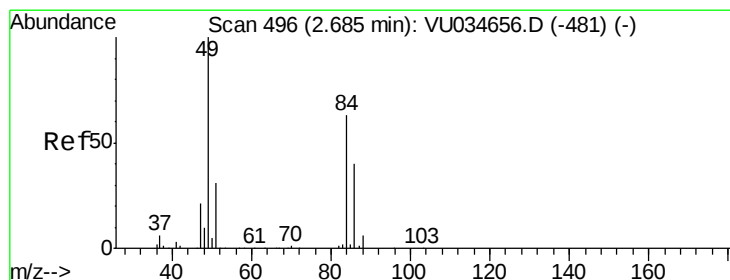
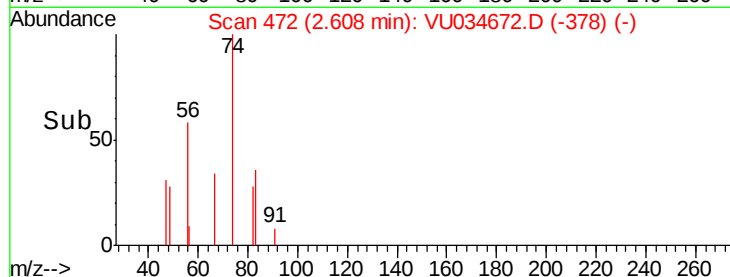
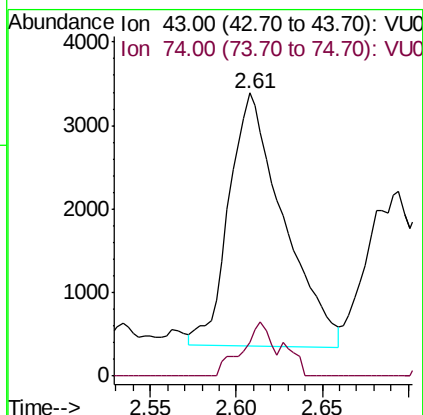
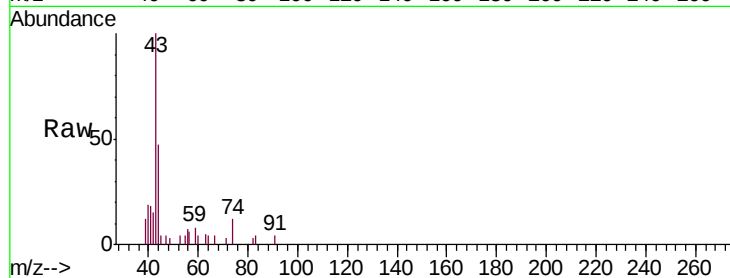




#15
Methyl Acetate
Concen: 1.092 ug/L
RT: 2.61 min Scan# 472
Delta R.T. 0.00 min
Lab File: VU034672.D
Acq: 20 Sep 2019 01:20

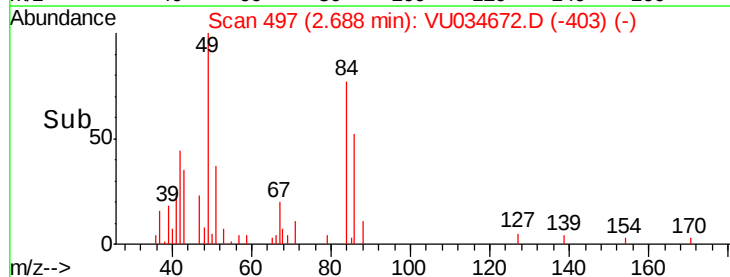
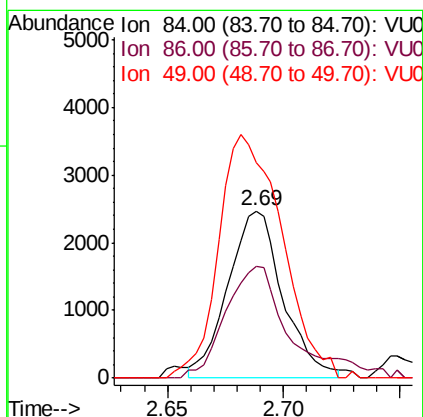
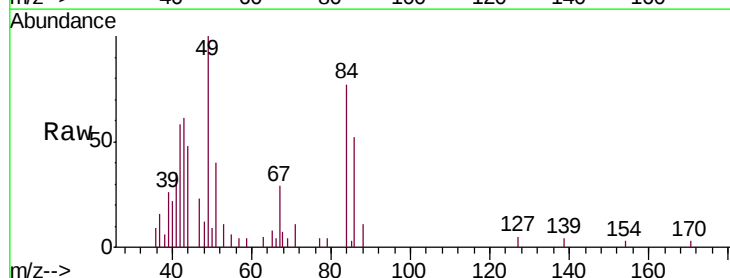
Instrument :
MSVOA_U
ClientSampleId :
BFDH4

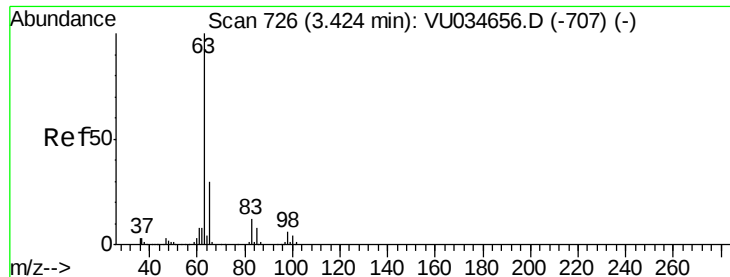
Tgt Ion: 43 Resp: 6641
Ion Ratio Lower Upper
43 100
74 5.5 14.4 21.6#



#16
Methylene chloride
Concen: 0.985 ug/L
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034672.D
Acq: 20 Sep 2019 01:20

Tgt Ion: 84 Resp: 4072
Ion Ratio Lower Upper
84 100
86 66.8 43.0 80.0
49 129.1 109.7 203.7

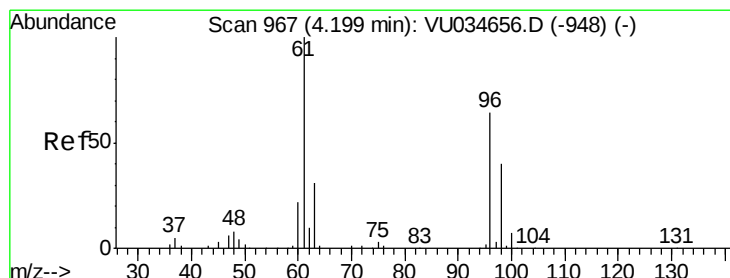
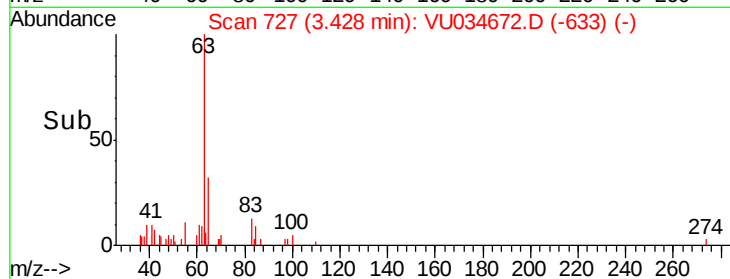
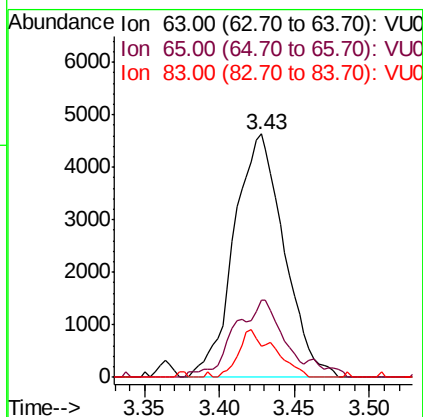
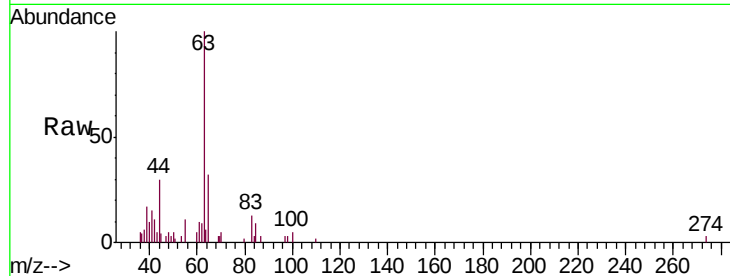




#19
 1,1-Dichloroethane
 Concen: 1.314 ug/L
 RT: 3.43 min Scan# 727
 Delta R.T. 0.00 min
 Lab File: VU034672.D
 Acq: 20 Sep 2019 01:20

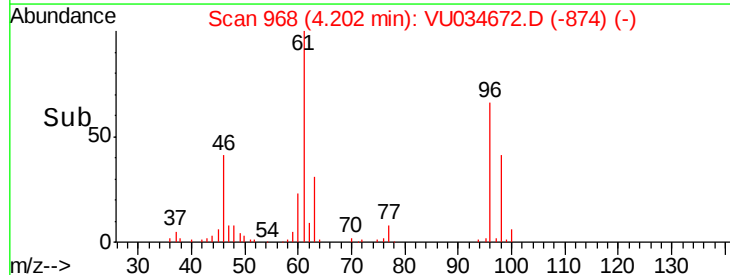
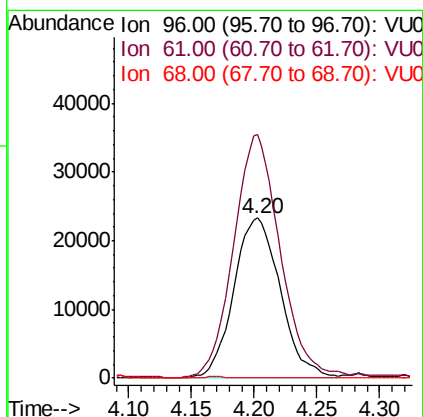
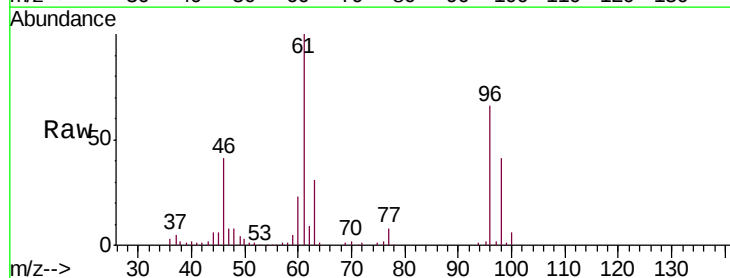
Instrument :
 MSVOA_U
 ClientSampleId :
 BFDH4

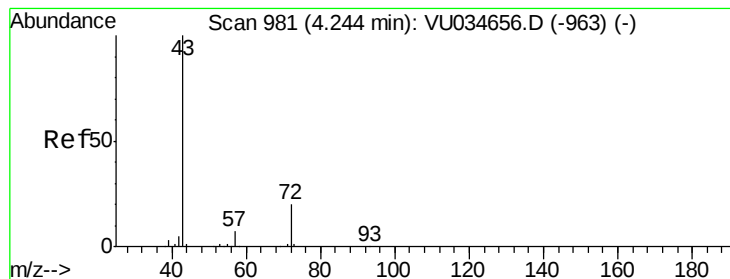
Tgt Ion:	63	Resp:	10754
Ion	Ratio	Lower	Upper
63	100		
65	31.7	22.0	40.8
83	12.9	8.9	16.5



#20
 cis-1,2-Dichloroethene
 Concen: 14.430 ug/L
 RT: 4.20 min Scan# 968
 Delta R.T. 0.00 min
 Lab File: VU034672.D
 Acq: 20 Sep 2019 01:20

Tgt Ion:	96	Resp:	60179
Ion	Ratio	Lower	Upper
96	100		
61	151.9	108.8	202.2
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 2.221 ug/L

RT: 4.24 min Scan# 981

Delta R.T. 0.00 min

Lab File: VU034672.D

Acq: 20 Sep 2019 01:20

Instrument :

MSVOA_U

ClientSampled :

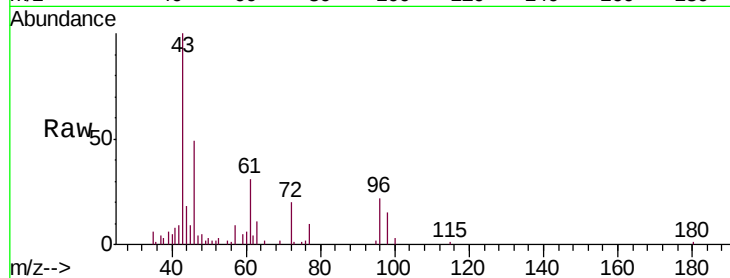
BFDH4

Tgt Ion: 43 Resp: 12022

Ion Ratio Lower Upper

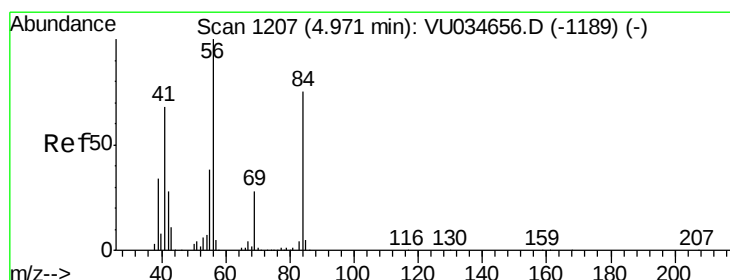
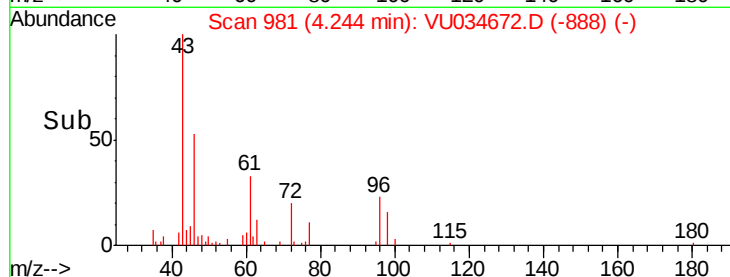
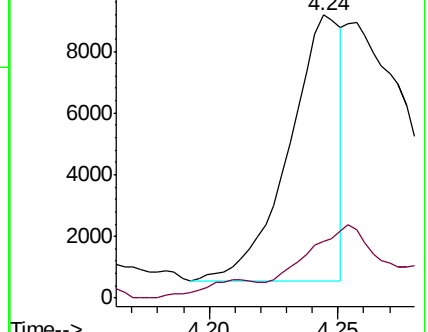
43 100

72 25.1 10.2 30.6



Abundance Ion 43.00 (42.70 to 43.70): VU034656.D (-963) (-)

Ion 72.00 (71.70 to 72.70): VU034656.D (-963) (-)



#29

Cyclohexane

Concen: 1.398 ug/L

RT: 4.97 min Scan# 1207

Delta R.T. 0.00 min

Lab File: VU034672.D

Acq: 20 Sep 2019 01:20

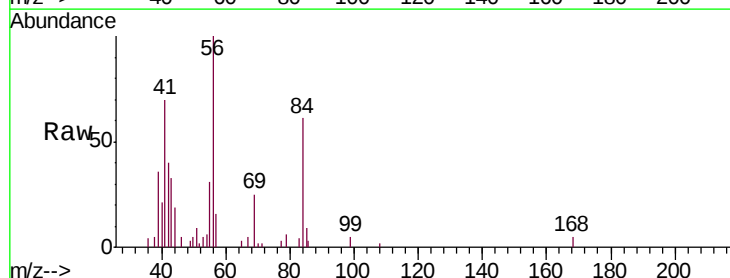
Tgt Ion: 56 Resp: 11082

Ion Ratio Lower Upper

56 100

69 28.1 21.7 32.5

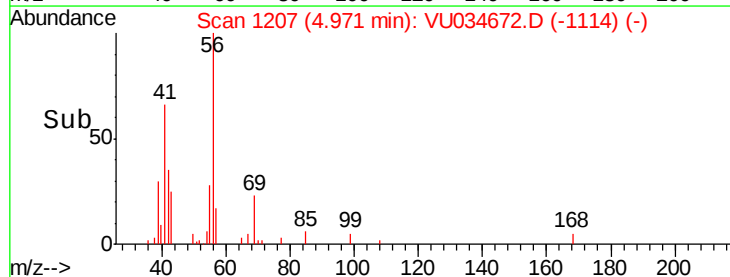
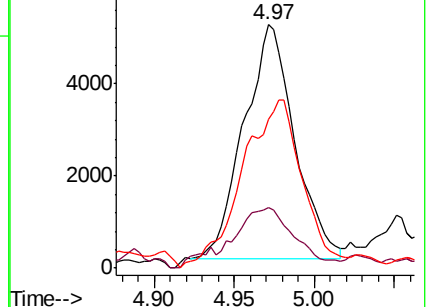
84 30.1 58.8 88.2#

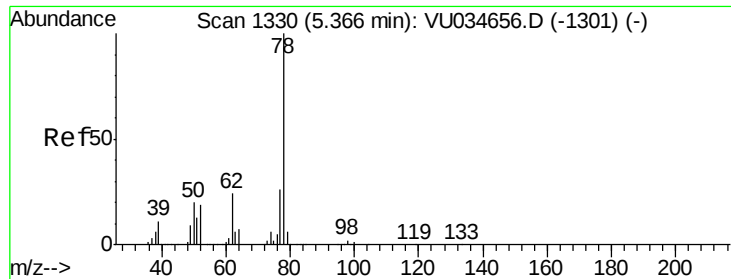


Abundance Ion 56.00 (55.70 to 56.70): VU034656.D (-1189) (-)

Ion 69.00 (68.70 to 69.70): VU034656.D (-1189) (-)

Ion 84.00 (83.70 to 84.70): VU034656.D (-1189) (-)





#33

Benzene

Concen: 23.064 ug/L

RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VU034672.D

Acq: 20 Sep 2019 01:20

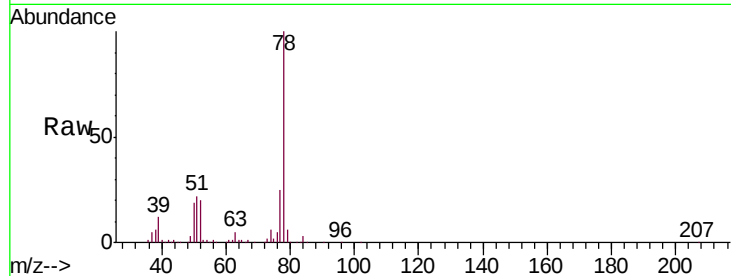
Instrument :

MSVOA_U

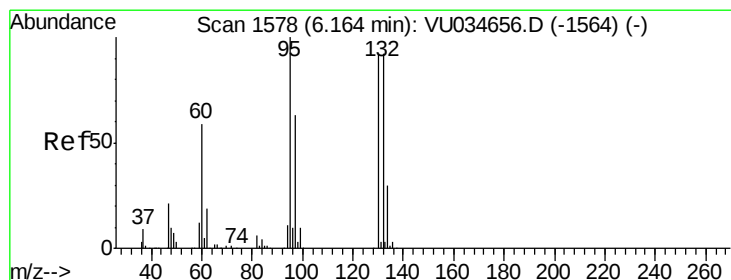
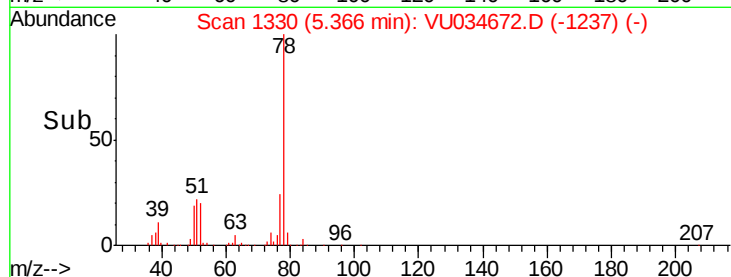
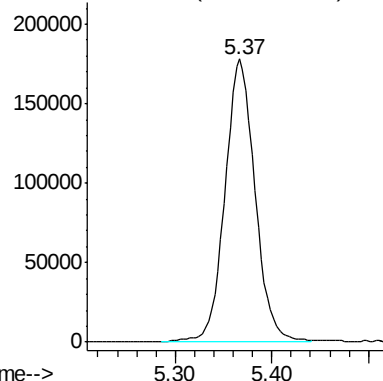
ClientSampleId :

BFDH4

Tgt Ion: 78 Resp: 384256



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 1.193 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU034672.D

Acq: 20 Sep 2019 01:20

Tgt Ion: 95 Resp: 4910

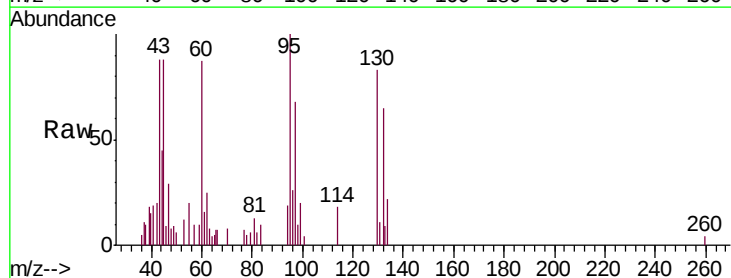
Ion	Ratio	Lower	Upper
95	100		
97	68.0	43.7	81.1
132	64.7	61.0	113.2
130	82.7	65.7	121.9

95 100

97 68.0 43.7 81.1

132 64.7 61.0 113.2

130 82.7 65.7 121.9

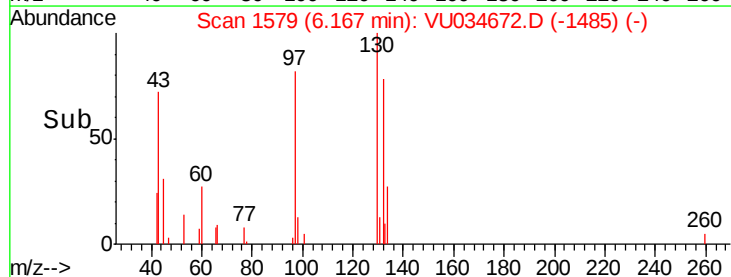
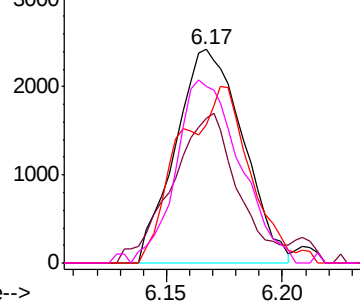


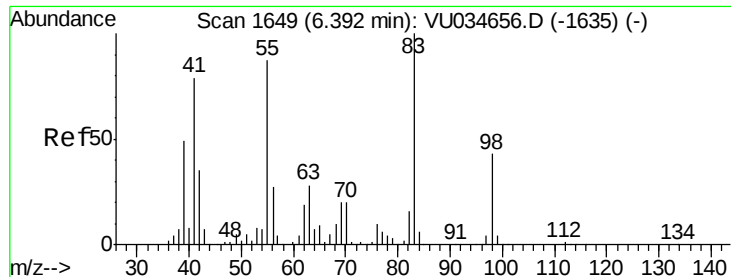
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

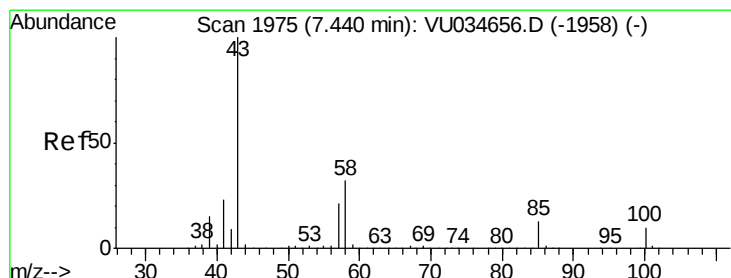
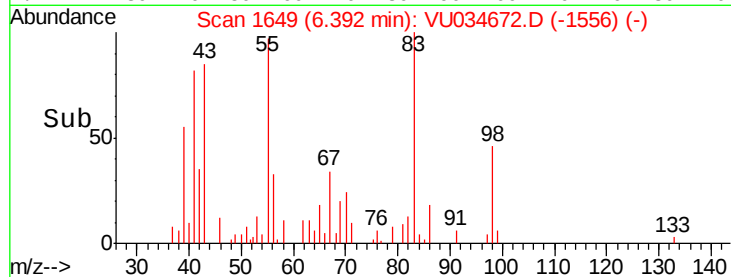
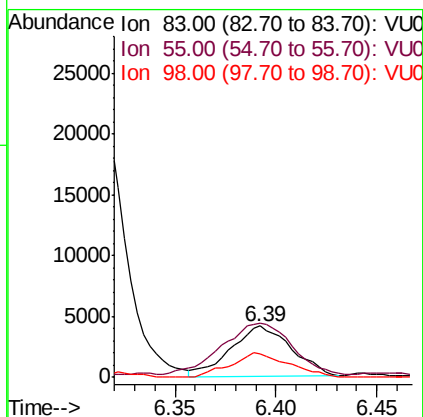
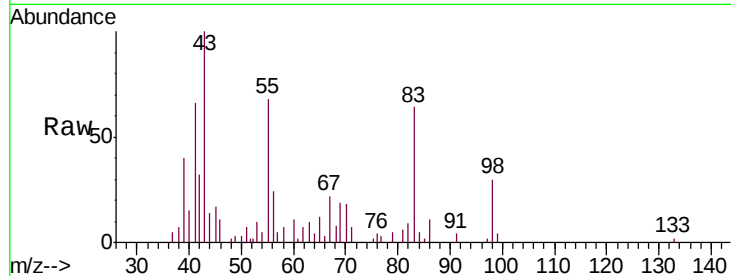




#35
Methylcyclohexane
Concen: 1.247 ug/L
RT: 6.39 min Scan# 1649
Delta R.T. 0.00 min
Lab File: VU034672.D
Acq: 20 Sep 2019 01:20

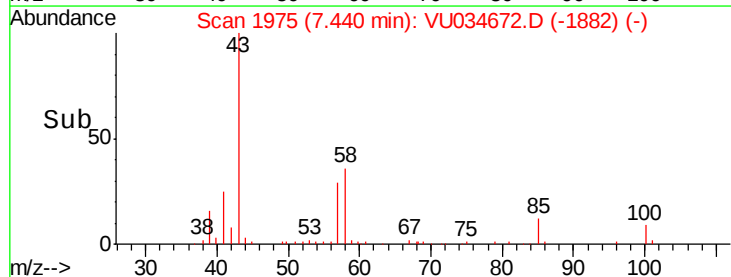
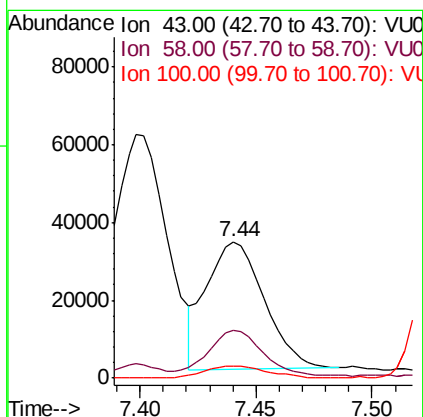
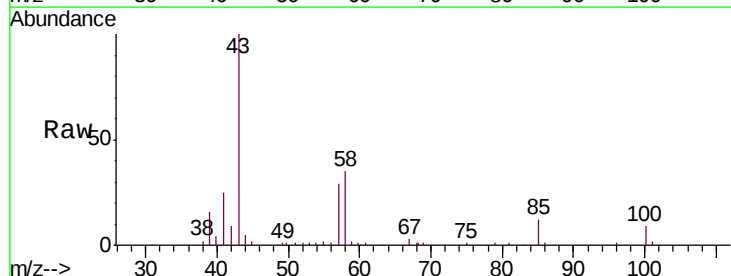
Instrument :
MSVOA_U
ClientSampled :
BFDH4

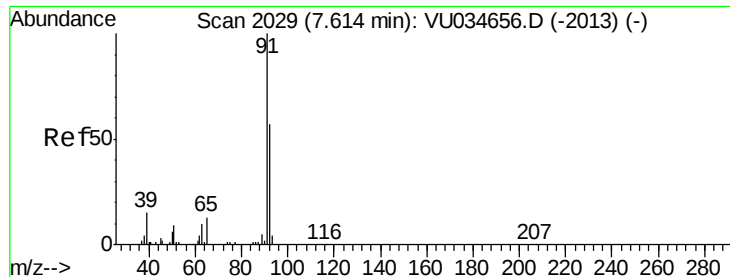
Tgt Ion: 83 Resp: 8706
Ion Ratio Lower Upper
83 100
55 116.6 71.6 107.4#
98 46.7 35.7 53.5



#40
4-Methyl-2-pentanone
Concen: 5.981 ug/L
RT: 7.44 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VU034672.D
Acq: 20 Sep 2019 01:20

Tgt Ion: 43 Resp: 56648
Ion Ratio Lower Upper
43 100
58 37.7 25.2 37.8
100 10.5 7.7 11.5





#42

Toluene

Concen: 179.793 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. 0.00 min

Lab File: VU034672.D

Acq: 20 Sep 2019 01:20

Instrument :

MSVOA_U

ClientSampleId :

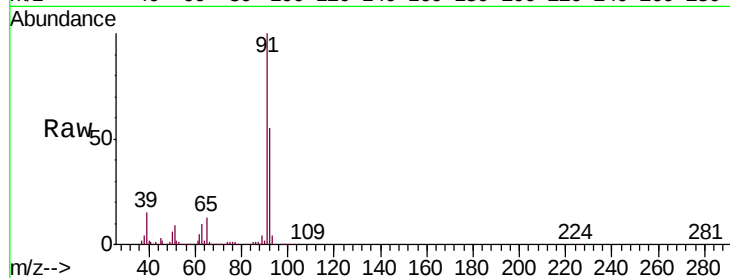
BFDH4

Tgt Ion: 91 Resp: 3237296

Ion Ratio Lower Upper

91 100

92 55.1 38.2 71.0



Abundance Ion 91.00 (90.70 to 91.70): VU034656.D (-2013) (-)

Ion 92.00 (91.70 to 92.70): VU034656.D (-2013) (-)

7.61

2000000

1500000

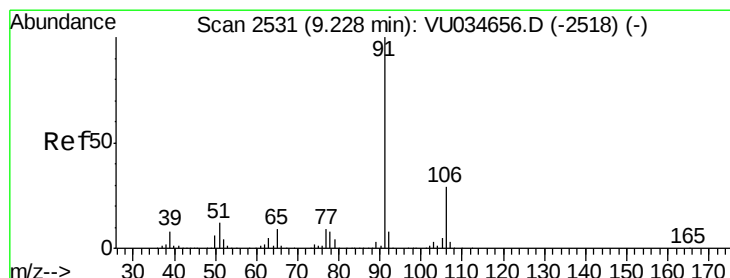
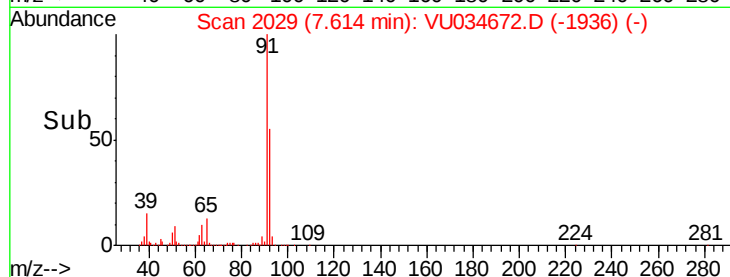
1000000

500000

0

7.50 7.60 7.70

Time-->



#52

Ethylbenzene

Concen: 33.563 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034672.D

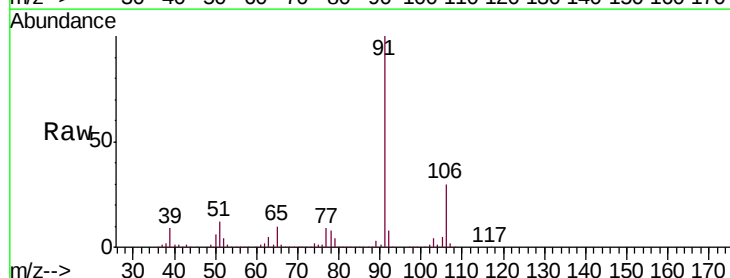
Acq: 20 Sep 2019 01:20

Tgt Ion: 91 Resp: 680520

Ion Ratio Lower Upper

91 100

106 29.6 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): VU034656.D (-2518) (-)

Ion 106.00 (105.70 to 106.70): VU034656.D (-2518) (-)

9.23

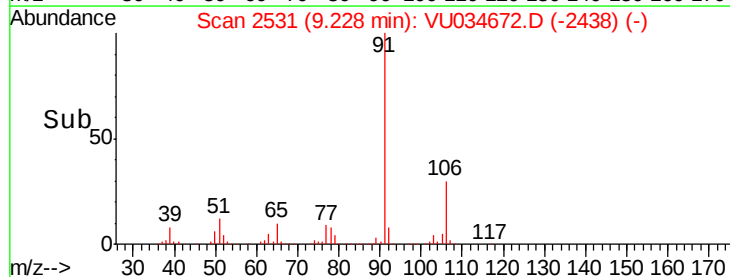
1000000

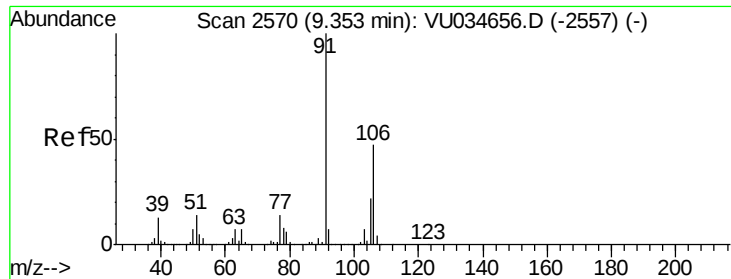
500000

0

9.15 9.20 9.25 9.30 9.35

Time-->





#53

m,p-Xylene

Concen: 125.799 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034672.D

Acq: 20 Sep 2019 01:20

Instrument :

MSVOA_U

ClientSampleId :

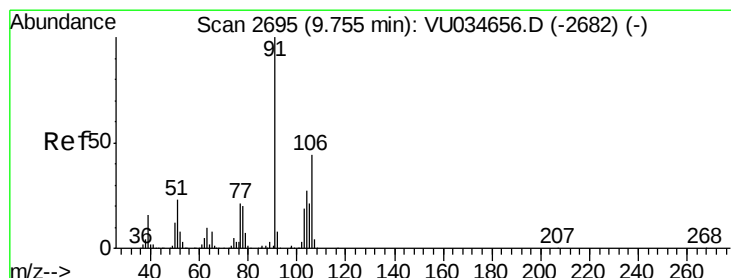
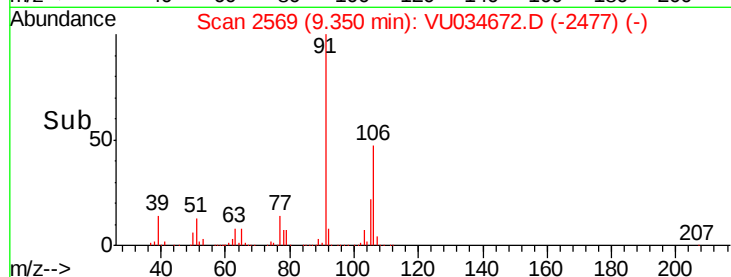
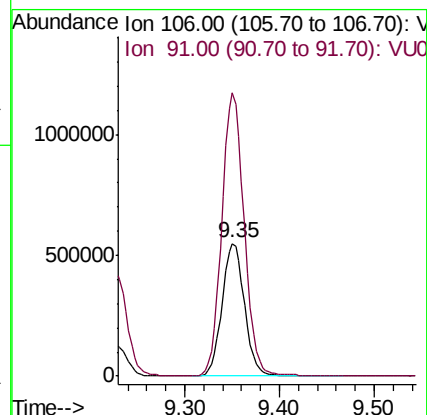
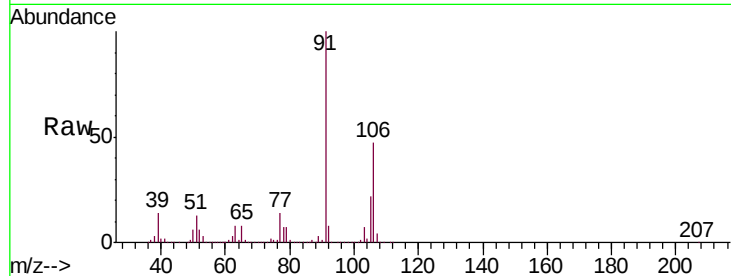
BFDH4

Tgt Ion:106 Resp: 903439

Ion Ratio Lower Upper

106 100

91 213.0 146.9 272.7



#54

o-xylene

Concen: 75.984 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU034672.D

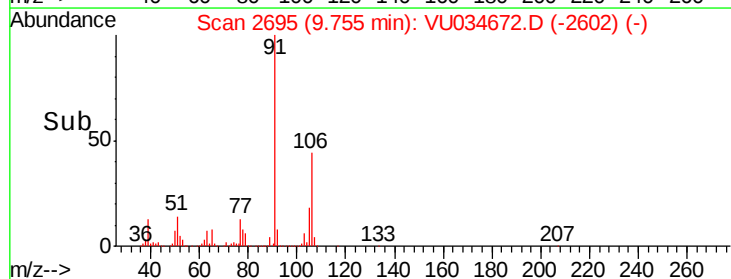
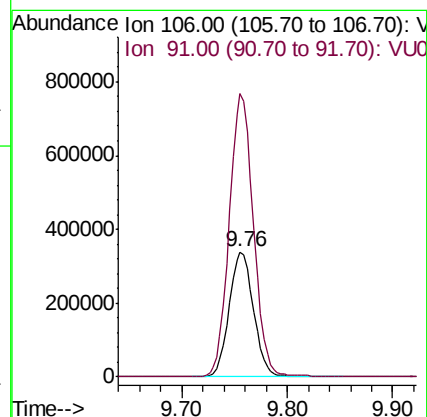
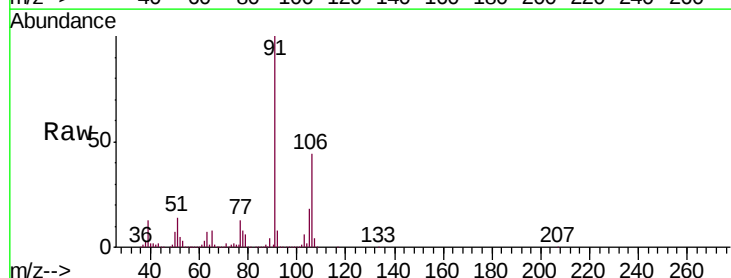
Acq: 20 Sep 2019 01:20

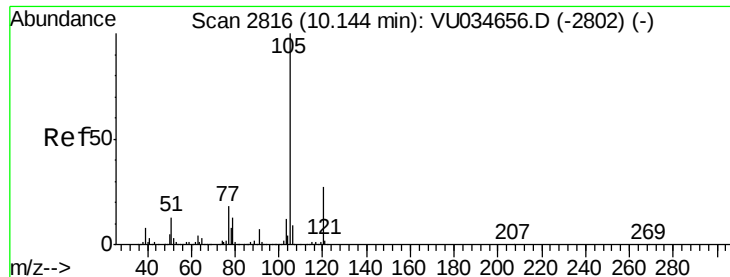
Tgt Ion:106 Resp: 539734

Ion Ratio Lower Upper

106 100

91 226.3 155.6 289.0





#56

Isopropylbenzene

Concen: 2.539 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034672.D

Acq: 20 Sep 2019 01:20

Instrument :

MSVOA_U

ClientSampleId :

BFDH4

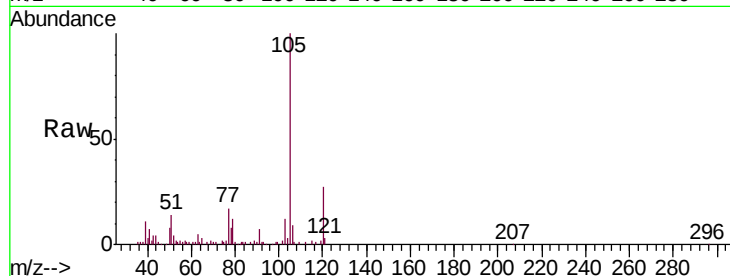
Tgt Ion:105 Resp: 48634

Ion Ratio Lower Upper

105 100

120 26.5 20.4 30.6

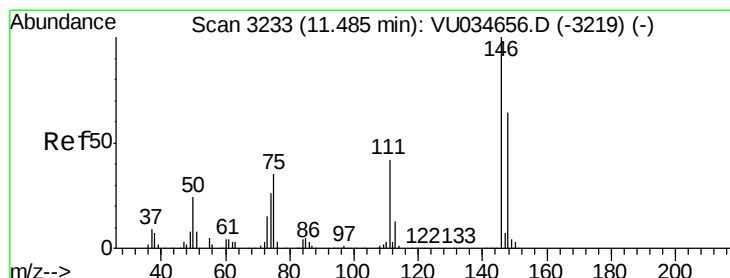
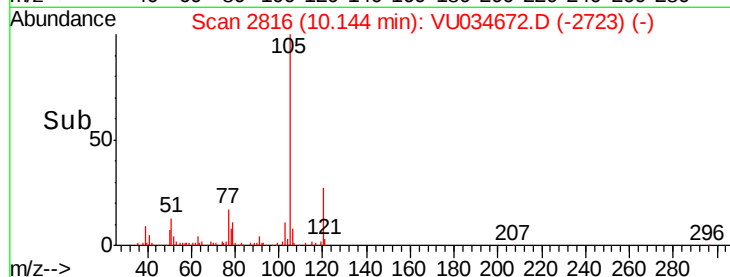
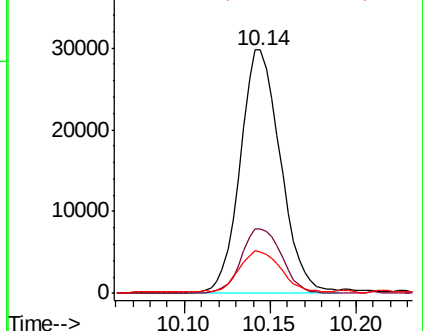
77 16.8 14.2 21.4



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): VU



#63

1,4-Dichlorobenzene

Concen: 1.370 ug/L

RT: 11.49 min Scan# 3233

Delta R.T. 0.00 min

Lab File: VU034672.D

Acq: 20 Sep 2019 01:20

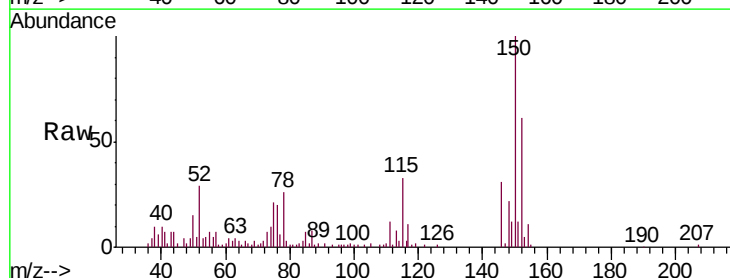
Tgt Ion:146 Resp: 11046

Ion Ratio Lower Upper

146 100

111 39.8 29.5 54.9

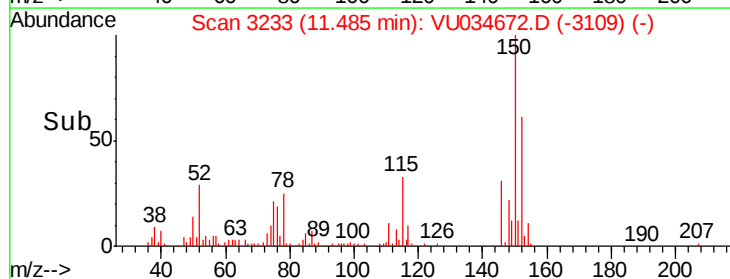
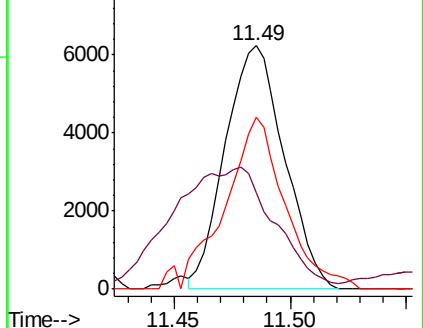
148 70.6 44.4 82.4

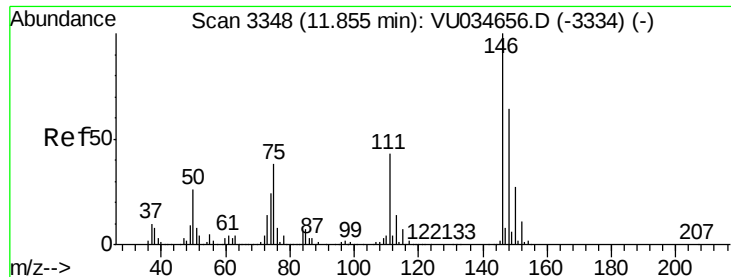


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 12.898 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. 0.00 min

Lab File: VU034672.D

Acq: 20 Sep 2019 01:20

Instrument :

MSVOA_U

ClientSampleId :

BFDH4

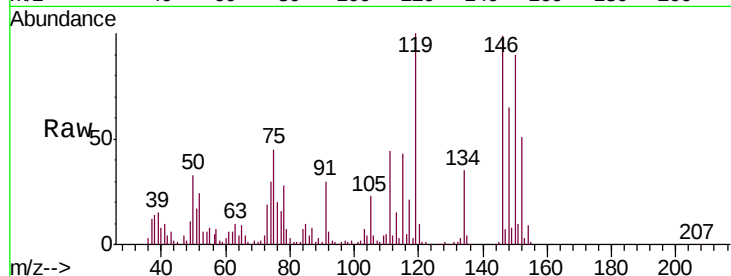
Tgt Ion:146 Resp: 103167

Ion Ratio Lower Upper

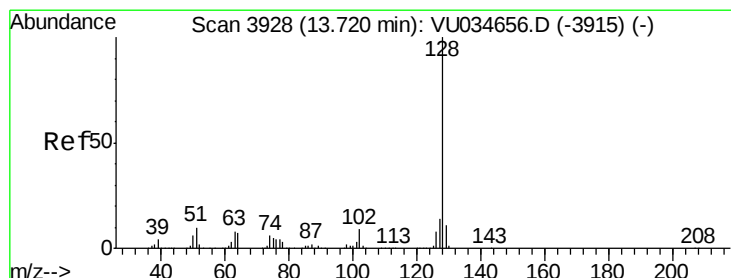
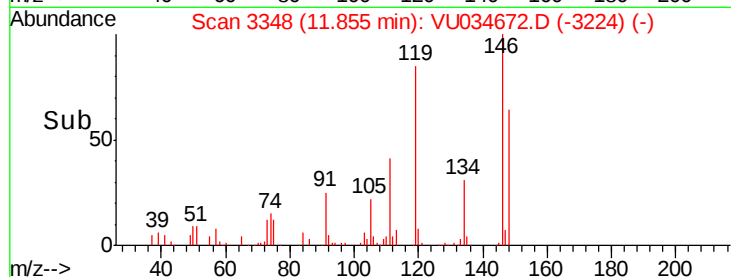
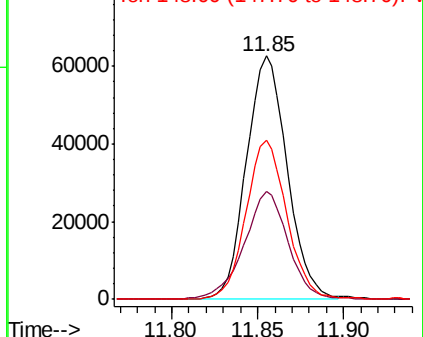
146 100

111 44.4 35.2 52.8

148 65.1 53.0 79.6



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



#69

Naphthalene

Concen: 63.878 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. 0.00 min

Lab File: VU034672.D

Acq: 20 Sep 2019 01:20

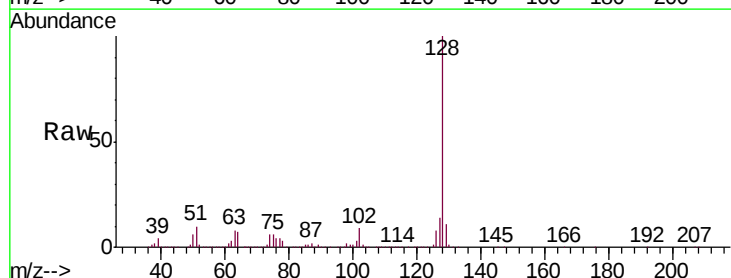
Tgt Ion:128 Resp: 922363

Ion Ratio Lower Upper

128 100

127 13.5 10.8 16.2

129 11.0 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

