

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091919\
 Data File : VU034664.D
 Acq On : 19 Sep 2019 22:13
 Operator : JC/SP
 Sample : K4895-10
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFDH1

Quant Time: Sep 20 05:13:24 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	470212	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	459029	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	218790	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	216951	45.07	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.14%
7) Chloroethane-d5	1.67	69	179611	48.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.56%
11) 1,1-Dichloroethene-d2	2.26	63	297823	36.53	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	73.06%
21) 2-Butanone-d5	4.15	46	417404	113.14	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	113.14%
24) Chloroform-d	4.62	84	344996	49.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.60%
26) 1,2-Dichloroethane-d4	5.29	65	255800	49.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.44%
32) Benzene-d6	5.32	84	697222	49.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.00%
36) 1,2-Dichloropropane-d6	6.31	67	245513	49.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.74%
41) Toluene-d8	7.54	98	670323	49.52	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.04%
43) trans-1,3-Dichloropropene-	7.83	79	116851	49.06	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.12%
47) 2-Hexanone-d5	8.29	63	266244	106.60	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	106.60%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	333011	48.26	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.52%
64) 1,2-Dichlorobenzene-d4	11.84	152	231073	50.37	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.74%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acetone	2.31	43	189675	44.197	ug/L	97
15) Methyl Acetate	2.61	43	6015	1.049	ug/L	# 86
16) Methylene chloride	2.68	84	4510	1.157	ug/L	82
20) cis-1,2-Dichloroethene	4.20	96	95228	24.214	ug/L	94
22) 2-Butanone	4.25	43	48578	9.515	ug/L	80
29) Cyclohexane	4.97	56	35566	4.694	ug/L	98
33) Benzene	5.37	78	458488	28.799	ug/L	100
34) Trichloroethene	6.17	95	45827	11.656	ug/L	98
35) Methylcyclohexane	6.40	83	30297	4.541	ug/L	92
37) 1,2-Dichloropropane	6.41	63	6098	1.286	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	98334	10.865	ug/L	92
42) Toluene	7.61	91	4020726	233.689	ug/L	99
46) Tetrachloroethene	8.21	164	5596	2.023	ug/L	90
51) Chlorobenzene	9.10	112	14511	1.387	ug/L	94
52) Ethylbenzene	9.23	91	1163406	60.048	ug/L	100
53) m,p-Xylene	9.35	106	1626644	237.036	ug/L	97
54) o-xylene	9.76	106	1050566	154.779	ug/L	96

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Quant Title : VOC Analysis
QLast Update : Fri Sep 20 04:02:05 2019
Response via : Initial Calibration

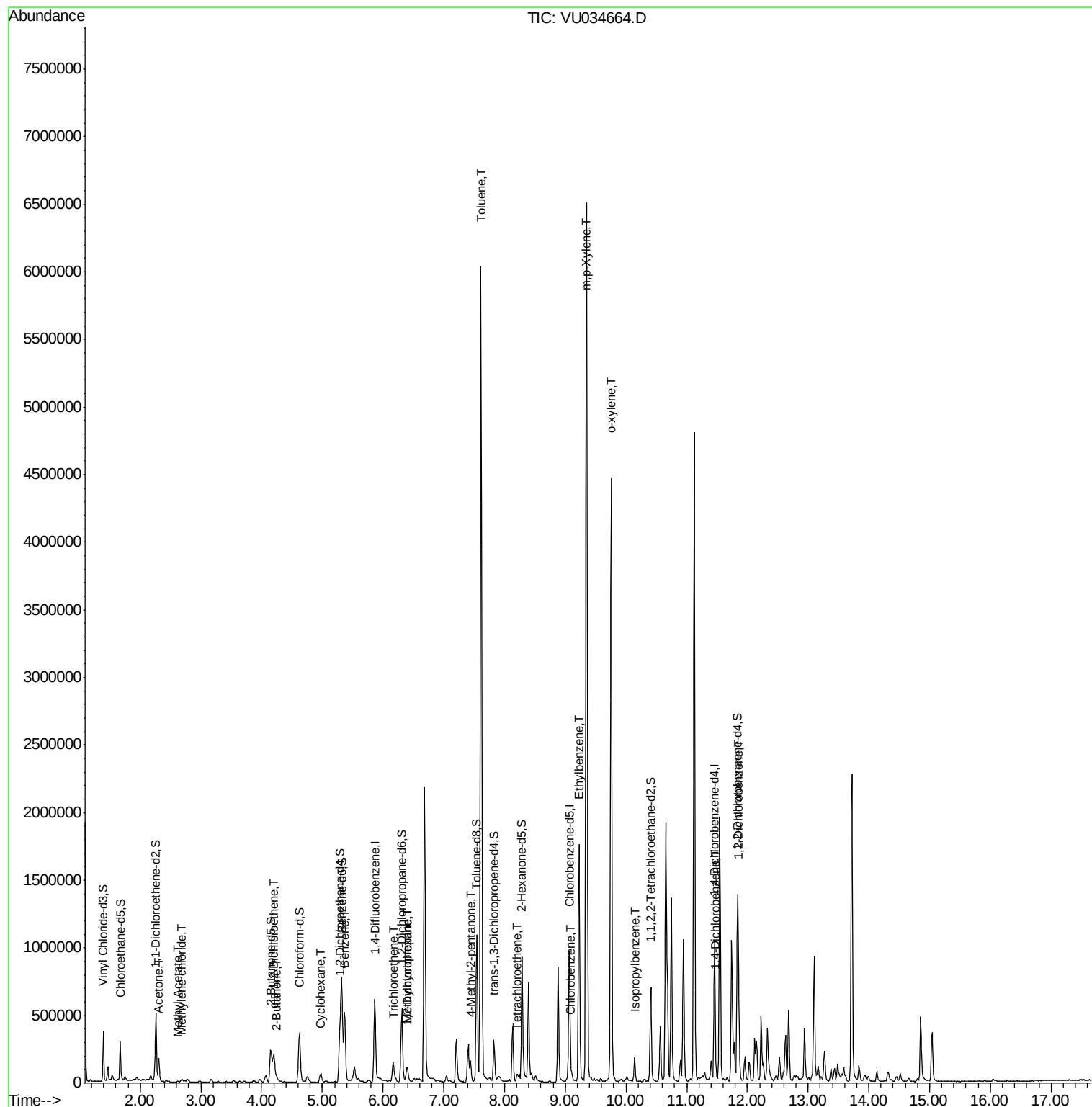
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) Isopropylbenzene	10.14	105	110872	6.058	ug/L	98
63) 1,4-Dichlorobenzene	11.48	146	8453	1.095	ug/L	95
65) 1,2-Dichlorobenzene	11.85	146	95020	12.412	ug/L	96

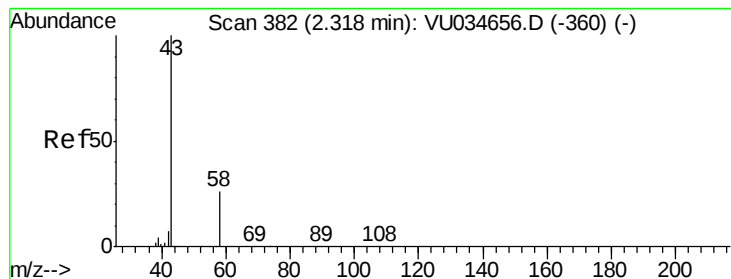
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 44.197 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

Instrument :

MSVOA_U

ClientSampleId :

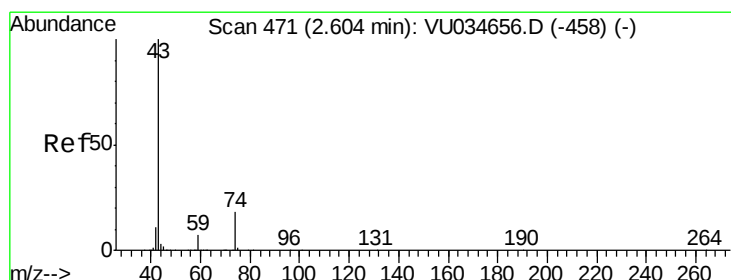
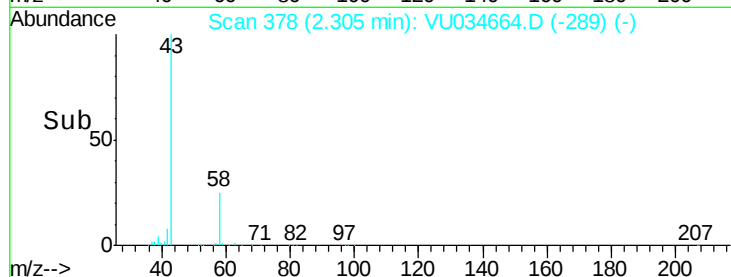
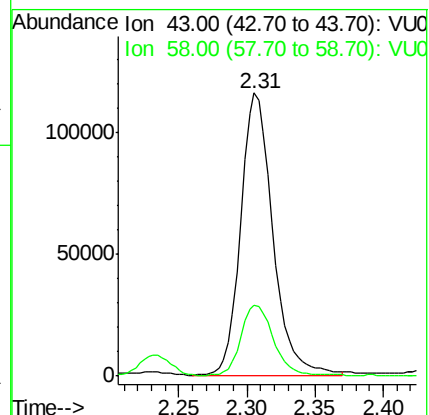
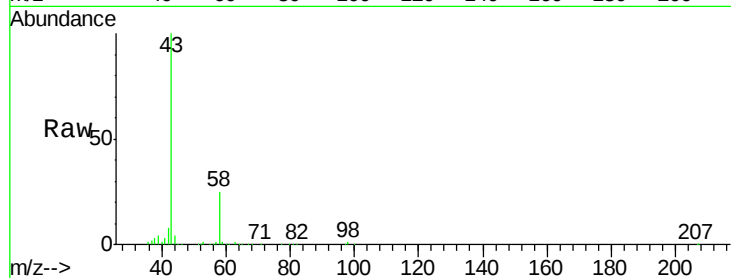
BFDH1

Tot Ion: 43 Resp: 189675

Ion Ratio Lower Upper

43 100

58 25.0 0.0 53.4



#15

Methyl Acetate

Concen: 1.049 ug/L

RT: 2.61 min Scan# 472

Delta R.T. 0.00 min

Lab File: VU034664.D

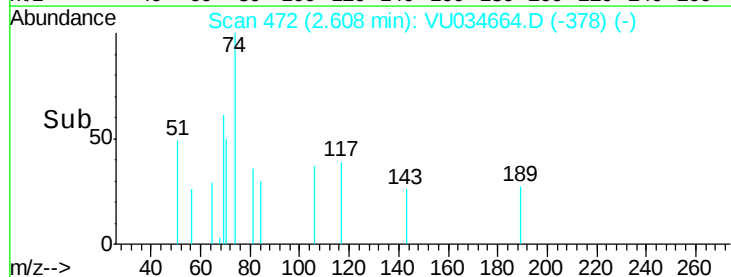
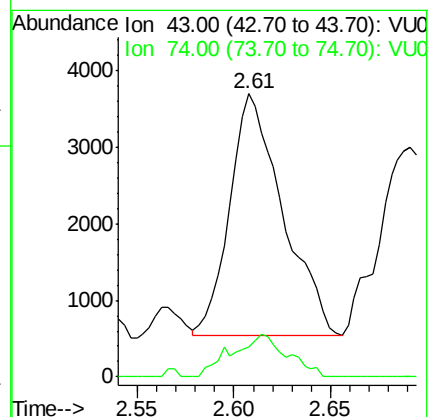
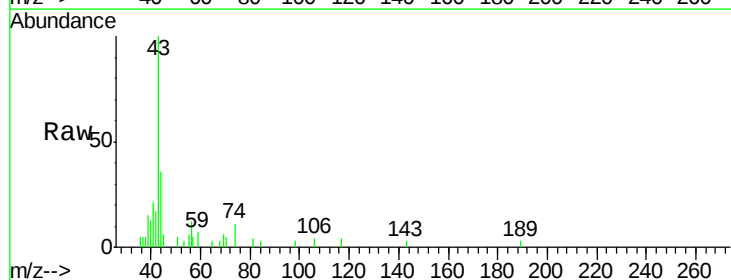
Acq: 19 Sep 2019 22:13

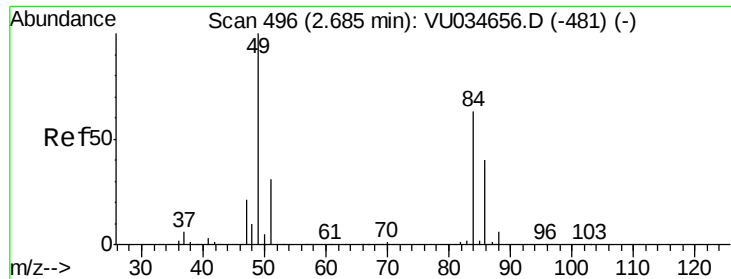
Tgt Ion: 43 Resp: 6015

Ion Ratio Lower Upper

43 100

74 11.7 14.4 21.6#

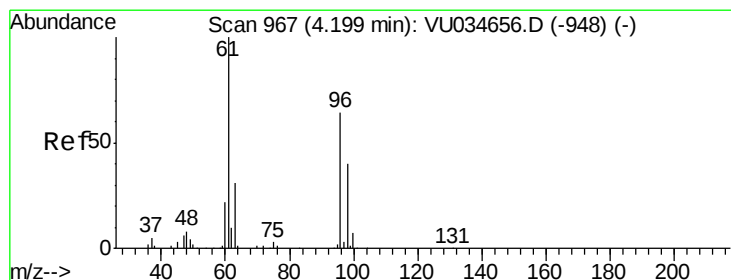
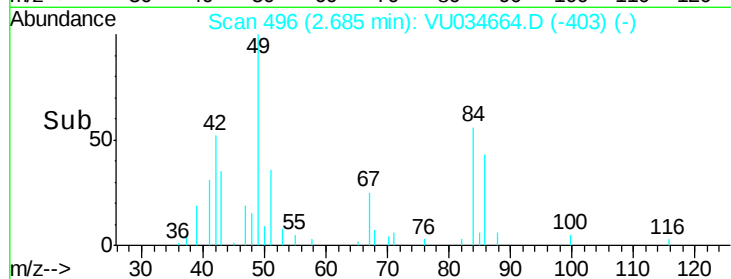
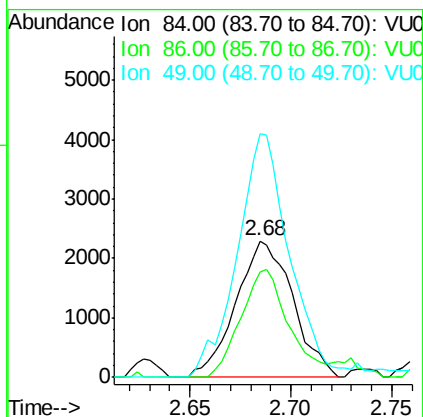
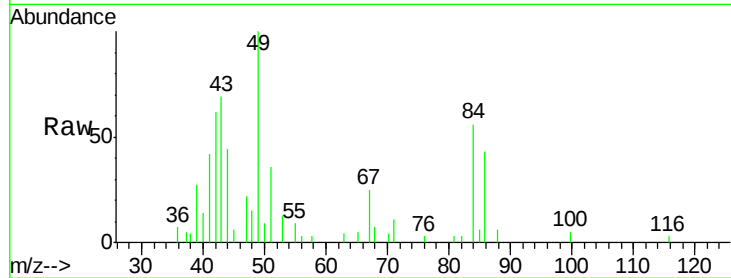




#16
Methvlene chloride
Concen: 1.157 ug/L
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU034664.D
Acq: 19 Sep 2019 22:13

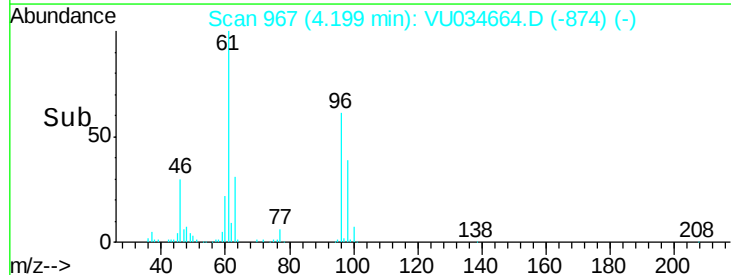
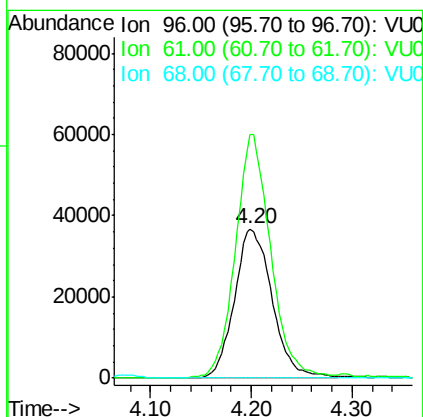
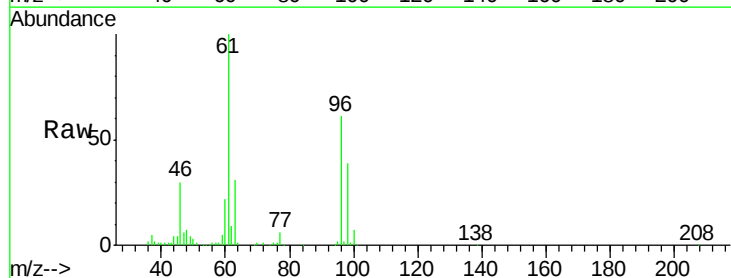
Instrument :
MSVOA_U
ClientSampled :
BFDH1

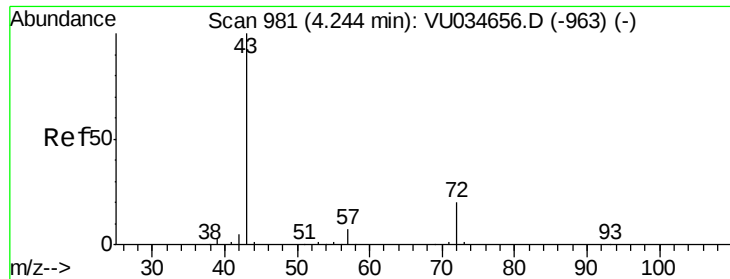
Tot Ion: 84 Resp: 4510
Ion Ratio Lower Upper
84 100
86 77.5 43.0 80.0
49 178.9 109.7 203.7



#20
cis-1,2-Dichloroethene
Concen: 24.214 ug/L
RT: 4.20 min Scan# 967
Delta R.T. -0.00 min
Lab File: VU034664.D
Acq: 19 Sep 2019 22:13

Tgt Ion: 96 Resp: 95228
Ion Ratio Lower Upper
96 100
61 163.1 108.8 202.2
68 0.0 0.0 0.0





#22

2-Butanone

Concen: 9.515 ug/L

RT: 4.25 min Scan# 982

Delta R.T. 0.00 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

Instrument :

MSVOA_U

ClientSampleId :

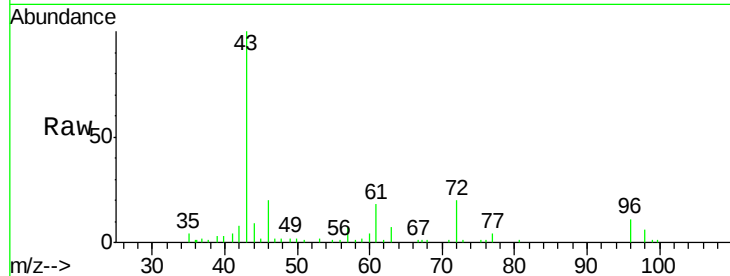
BFDH1

Tot Ion: 43 Resp: 48578

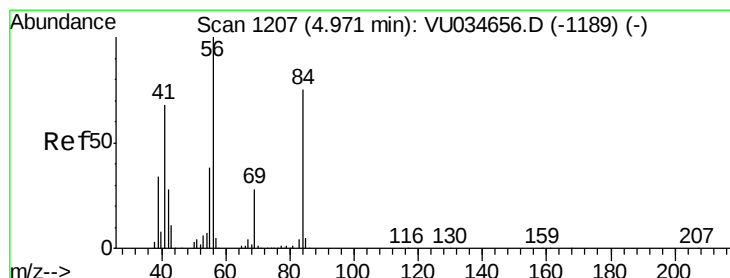
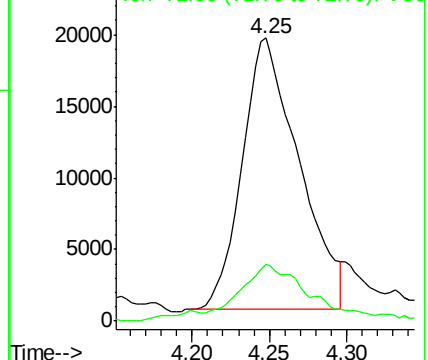
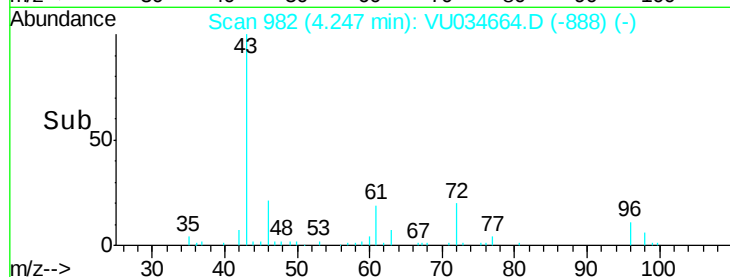
Ion Ratio Lower Upper

43 100

72 10.9 10.2 30.6



Abundance Ion 43.00 (42.70 to 43.70): VU034664.D (-988) (-)



#29

Cyclohexane

Concen: 4.694 ug/L

RT: 4.97 min Scan# 1207

Delta R.T. 0.00 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

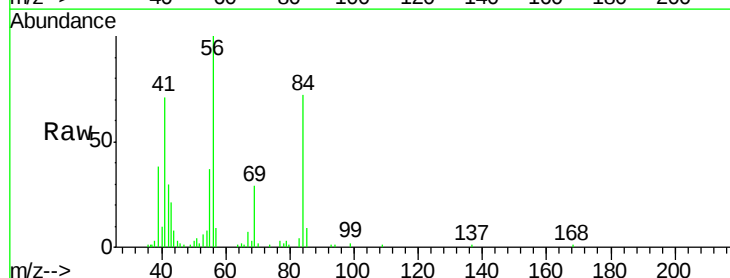
Tgt Ion: 56 Resp: 35566

Ion Ratio Lower Upper

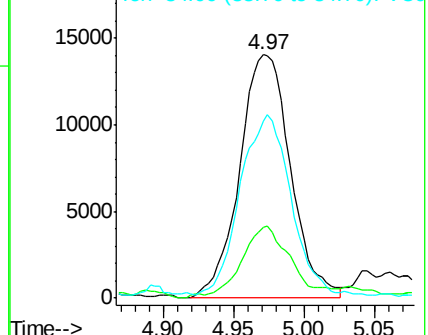
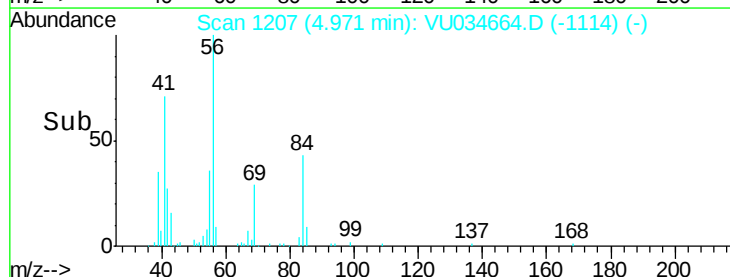
56 100

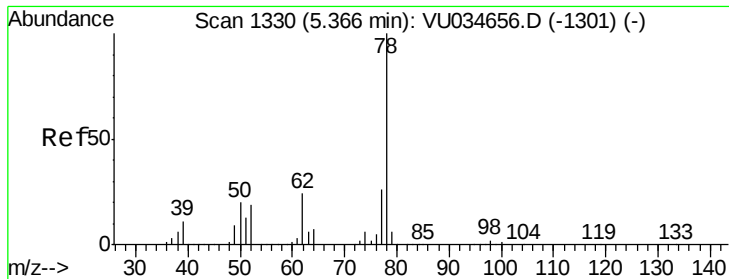
69 24.3 21.7 32.5

84 72.6 58.8 88.2



Abundance Ion 56.00 (55.70 to 56.70): VU034664.D (-1114) (-)





#33

Benzene

Concen: 28.799 ug/L

RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

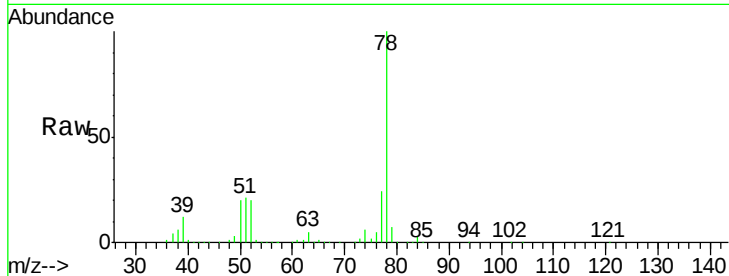
Instrument :

MSVOA_U

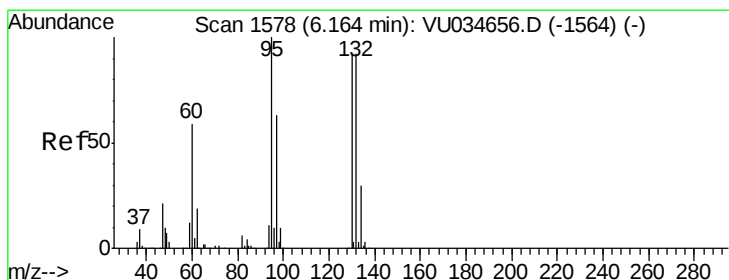
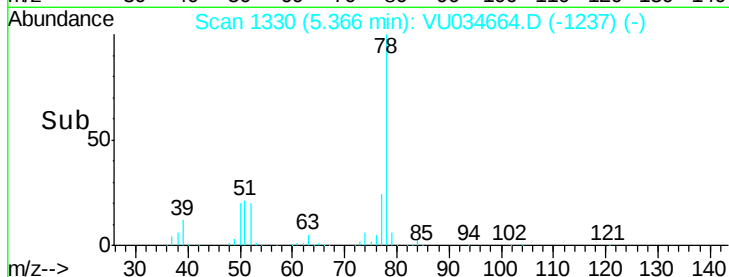
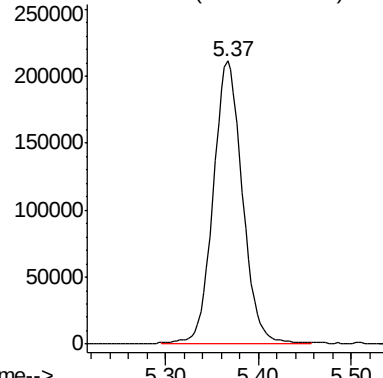
ClientSampleId :

BFDH1

Tgt Ion: 78 Resp: 458488



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 11.656 ug/L

RT: 6.17 min Scan# 1579

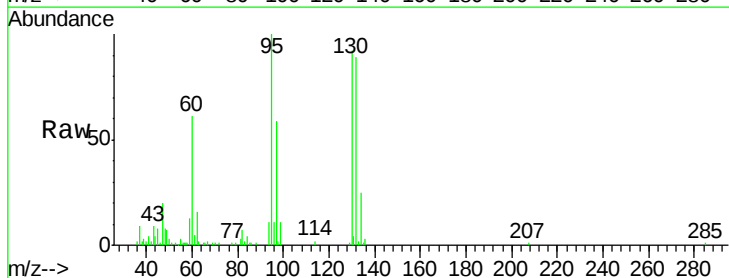
Delta R.T. 0.00 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

Tgt Ion: 95 Resp: 45827

Ion	Ratio	Lower	Upper
95	100		
97	59.0	43.7	81.1
132	88.9	61.0	113.2
130	92.3	65.7	121.9

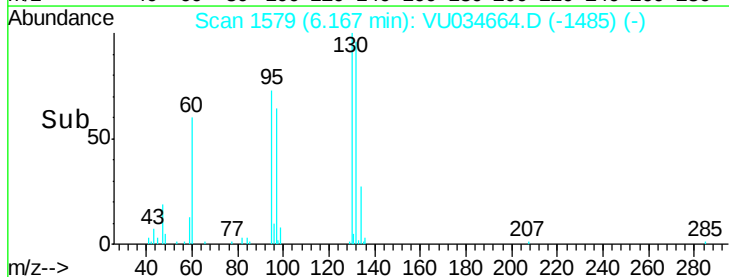
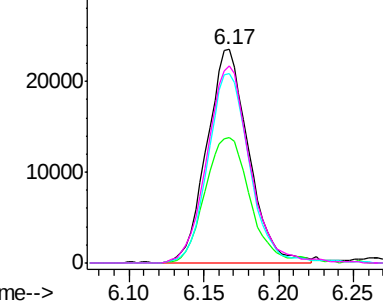


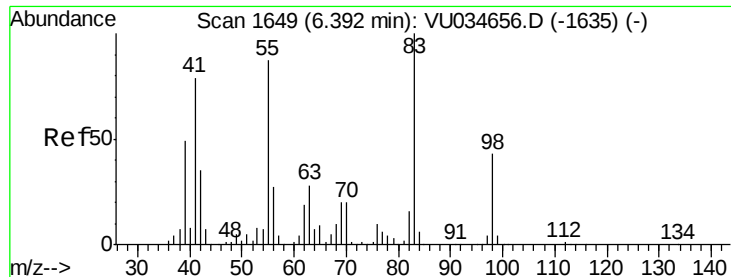
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

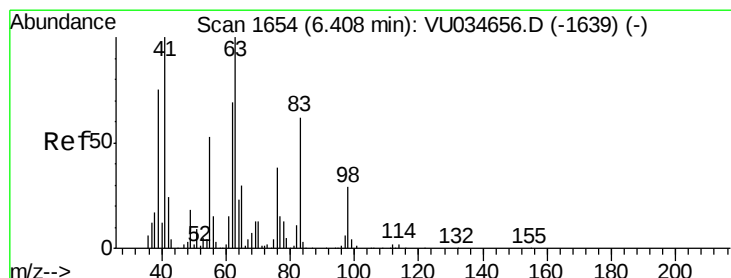
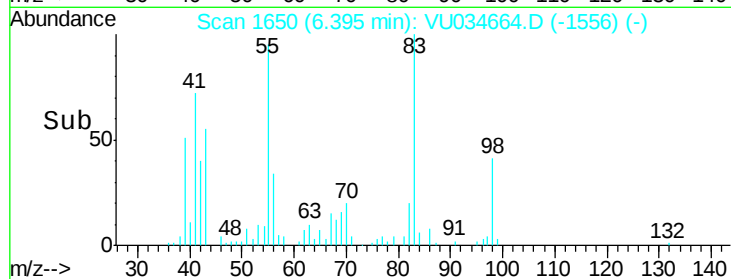
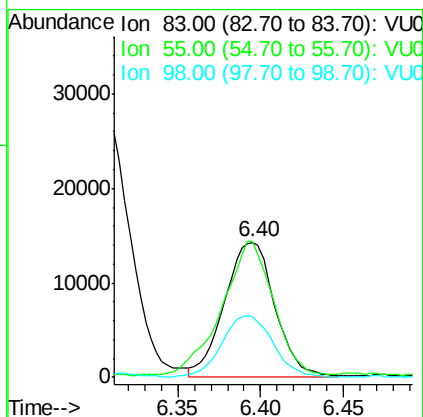
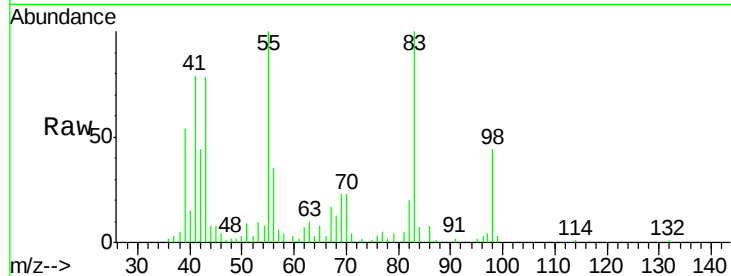




#35
Methvlcvclohexane
Concen: 4.541 ug/L
RT: 6.40 min Scan# 1650
Delta R.T. 0.00 min
Lab File: VU034664.D
Acq: 19 Sep 2019 22:13

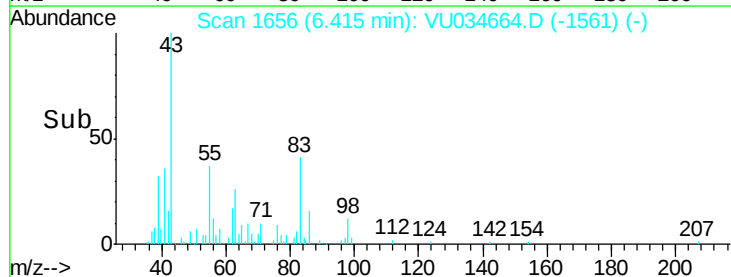
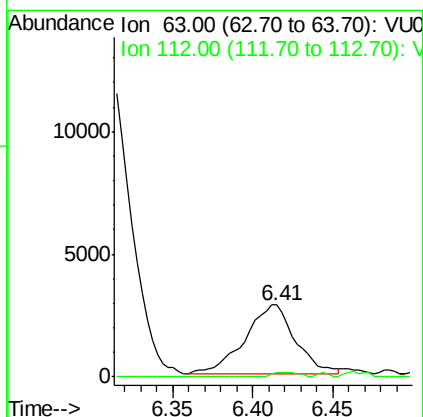
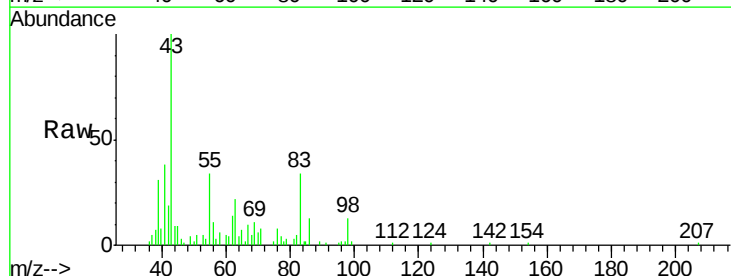
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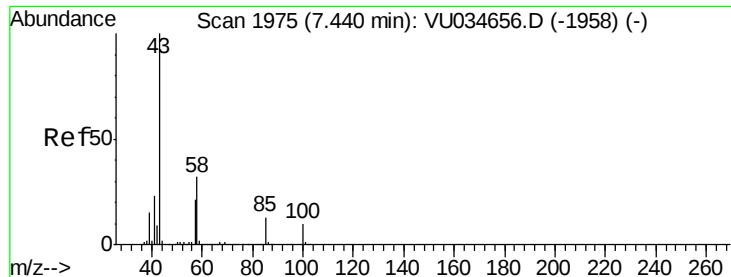
Tot Ion: 83 Resp: 30297
Ion Ratio Lower Upper
83 100
55 100.0 71.6 107.4
98 46.3 35.7 53.5



#37
1,2-Dichloropropane
Concen: 1.286 ug/L
RT: 6.41 min Scan# 1656
Delta R.T. 0.01 min
Lab File: VU034664.D
Acq: 19 Sep 2019 22:13

Tgt Ion: 63 Resp: 6098
Ion Ratio Lower Upper
63 100
112 3.5 2.4 3.6

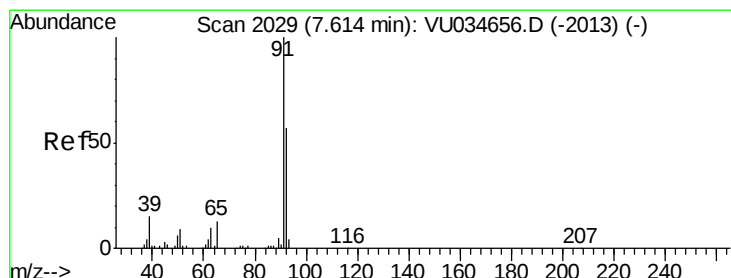
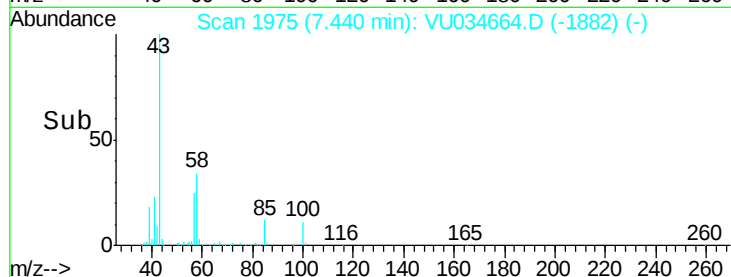
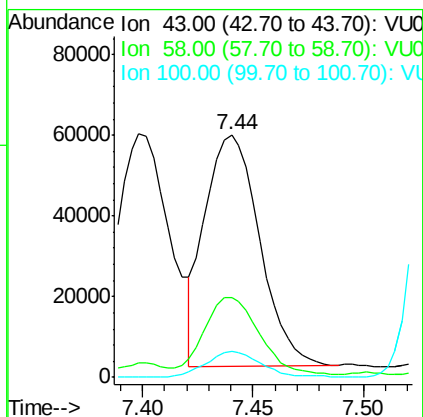
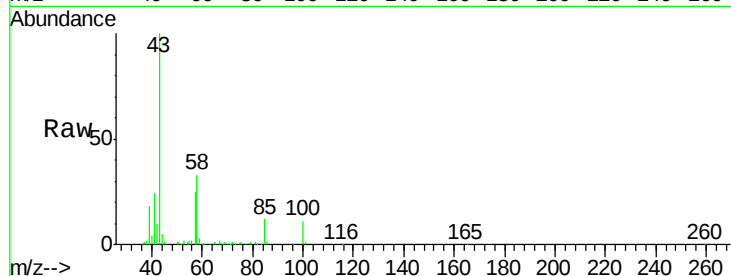




#40
4-Methyl-2-pentanone
Concen: 10.865 ug/L
RT: 7.44 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VU034664.D
Acq: 19 Sep 2019 22:13

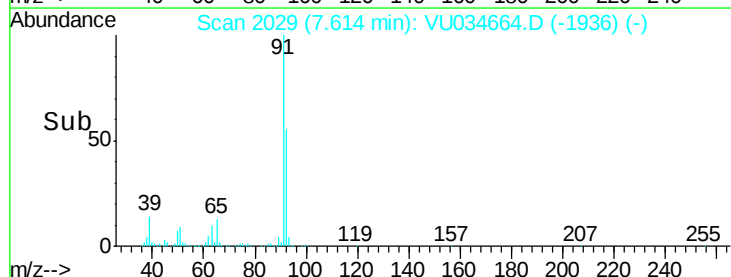
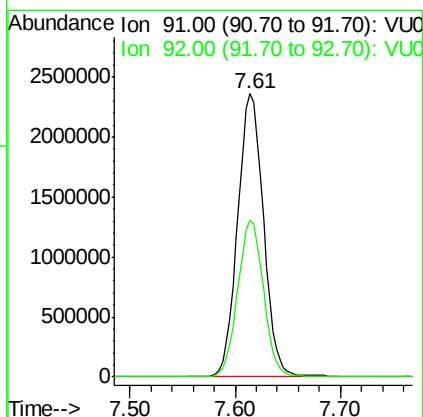
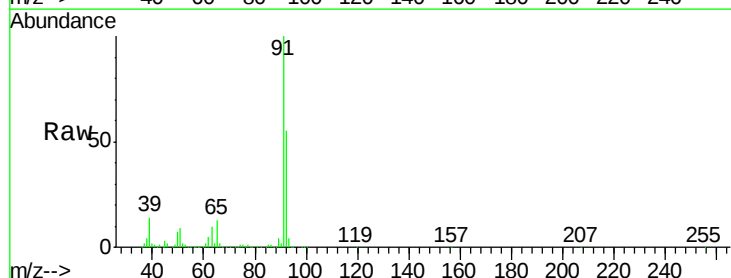
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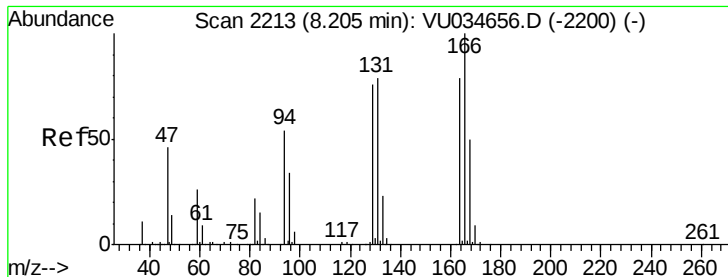
Tot Ion: 43 Resp: 98334
Ion Ratio Lower Upper
43 100
58 36.4 25.2 37.8
100 11.1 7.7 11.5



#42
Toluene
Concen: 233.689 ug/L
RT: 7.61 min Scan# 2029
Delta R.T. 0.00 min
Lab File: VU034664.D
Acq: 19 Sep 2019 22:13

Tgt Ion: 91 Resp: 4020726
Ion Ratio Lower Upper
91 100
92 55.3 38.2 71.0





#46

Tetrachloroethene

Concen: 2.023 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

Instrument :

MSVOA_U

ClientSampleId :

BFDH1

Tot Ion:164 Resp: 5596

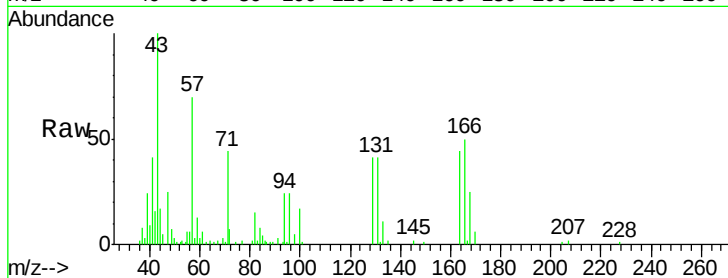
Ion Ratio Lower Upper

164 100

129 92.8 71.9 133.5

131 93.4 66.3 123.1

166 114.4 93.4 173.6

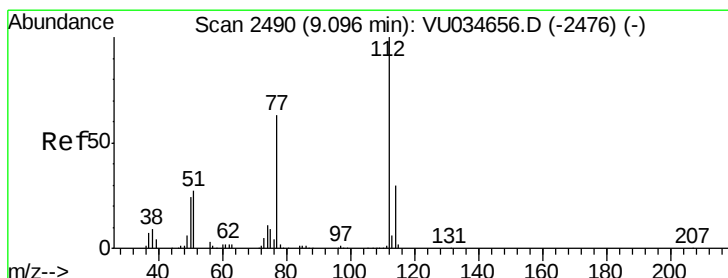
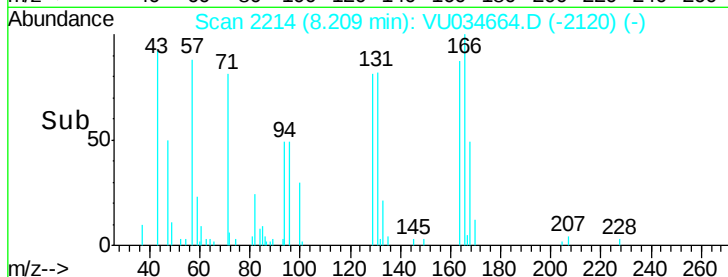
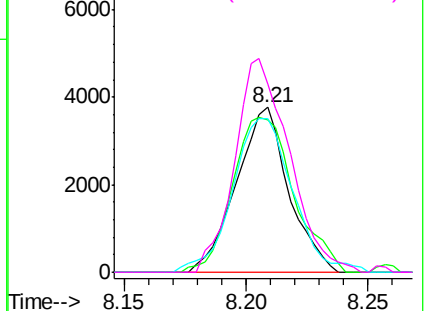


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#51

Chlorobenzene

Concen: 1.387 ug/L

RT: 9.10 min Scan# 2491

Delta R.T. 0.00 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

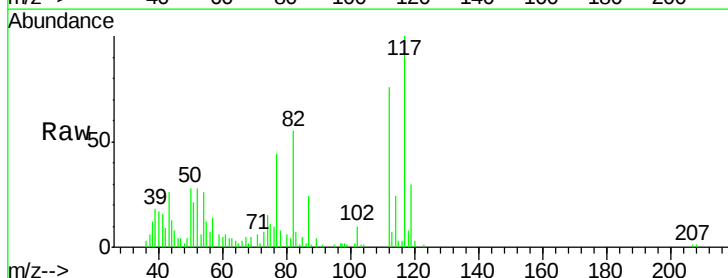
Tgt Ion:112 Resp: 14511

Ion Ratio Lower Upper

112 100

114 31.5 22.8 42.4

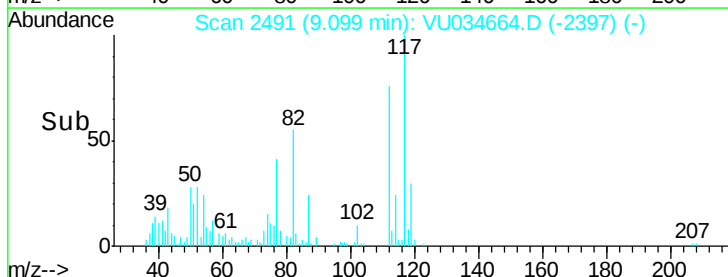
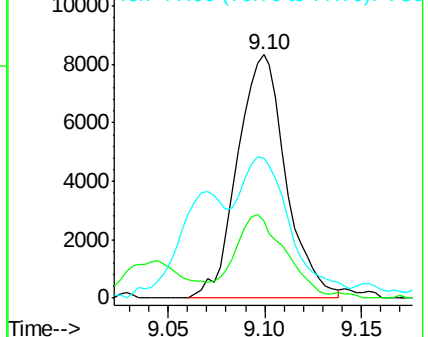
77 57.6 51.5 77.3

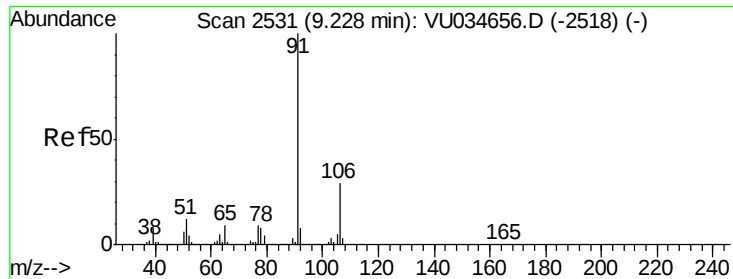


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0





#52

Ethylbenzene

Concen: 60.048 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

Instrument :

MSVOA_U

ClientSampleId :

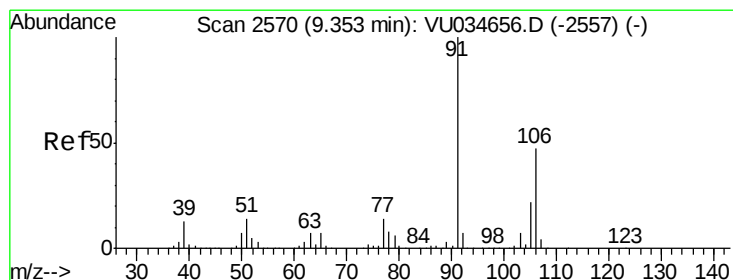
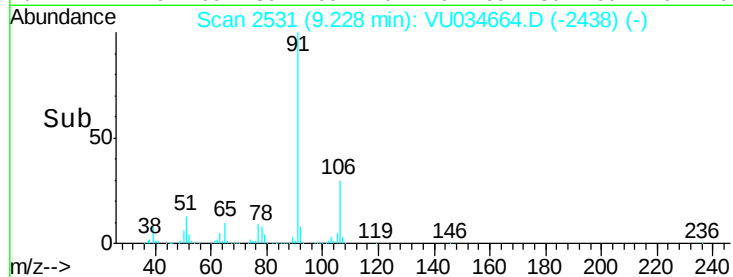
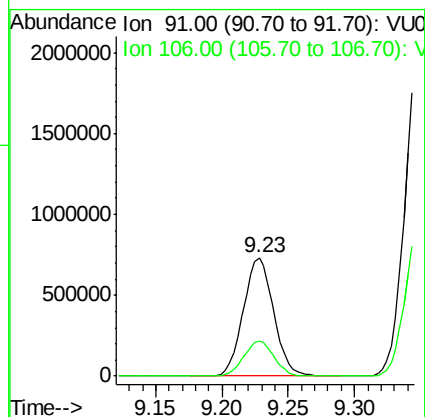
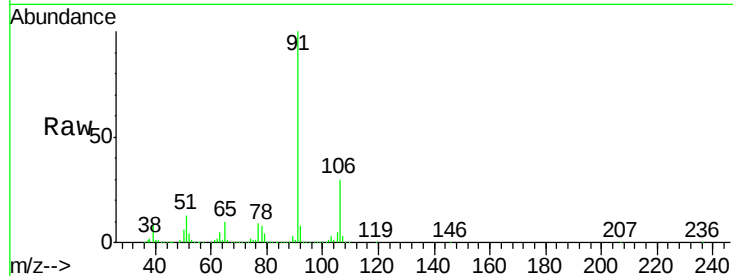
BFDH1

Tot Ion: 91 Resp: 1163406

Ion Ratio Lower Upper

91 100

106 29.5 20.6 38.4



#53

m,p-Xylene

Concen: 237.036 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034664.D

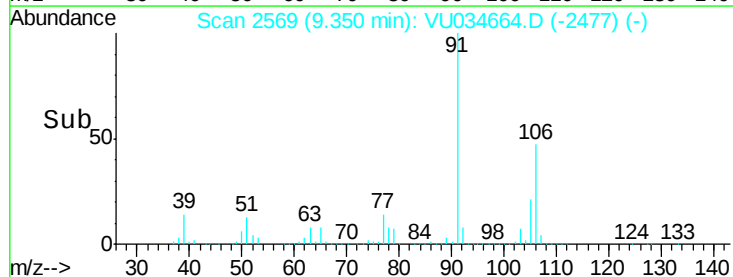
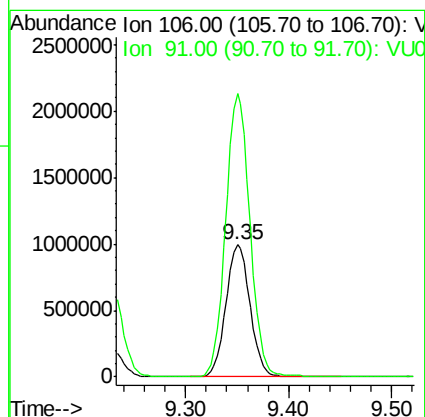
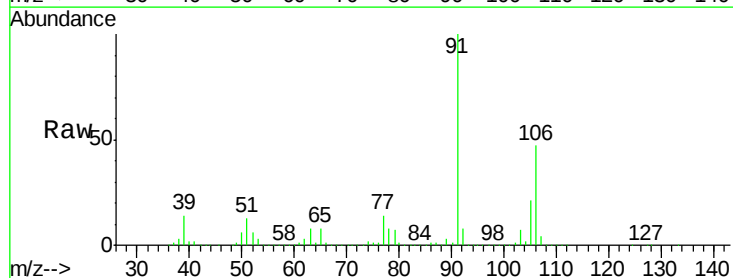
Acq: 19 Sep 2019 22:13

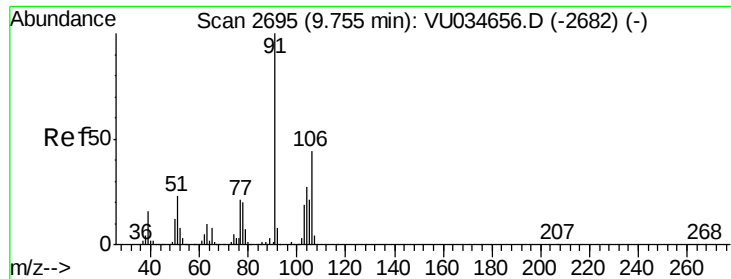
Tgt Ion:106 Resp: 1626644

Ion Ratio Lower Upper

106 100

91 214.2 146.9 272.7





#54

o-xylene

Concen: 154.779 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.00 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

Instrument :

MSVOA_U

ClientSampleId :

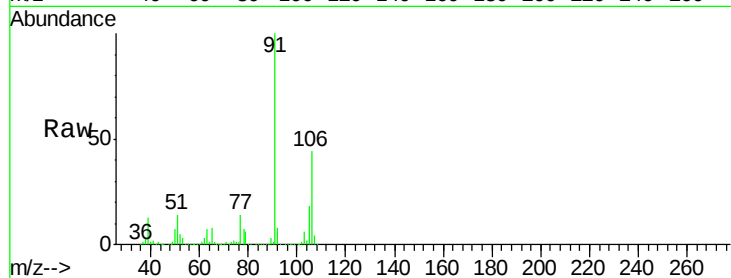
BFDH1

Tot Ion:106 Resp: 1050566

Ion Ratio Lower Upper

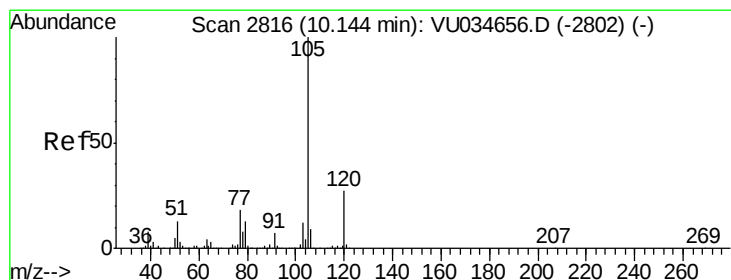
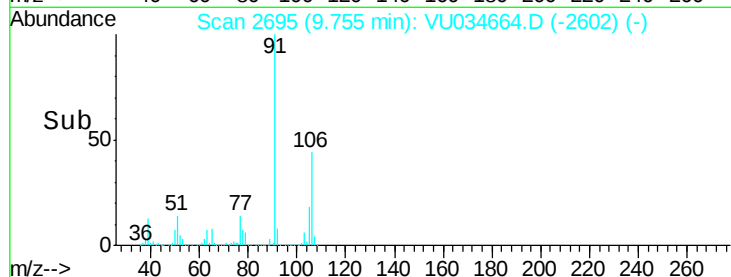
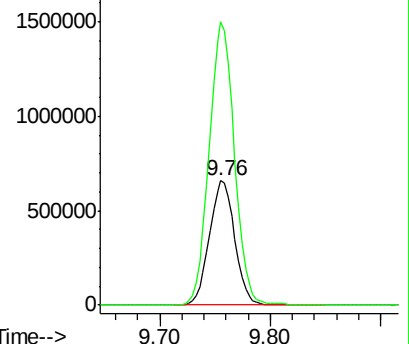
106 100

91 228.0 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#56

Isopropylbenzene

Concen: 6.058 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

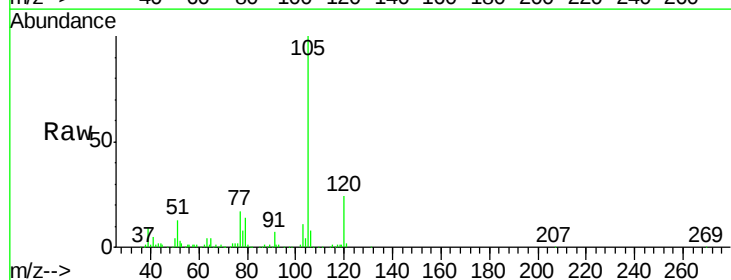
Tgt Ion:105 Resp: 110872

Ion Ratio Lower Upper

105 100

120 24.5 20.4 30.6

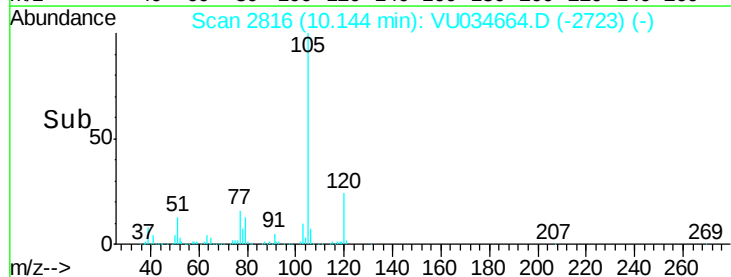
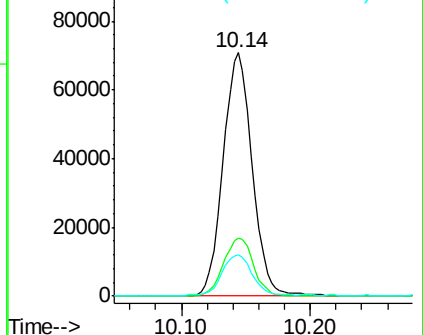
77 16.9 14.2 21.4

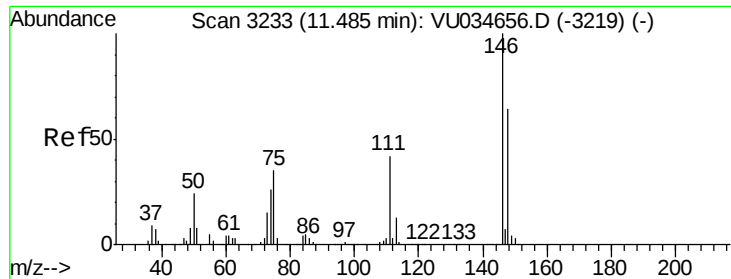


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0

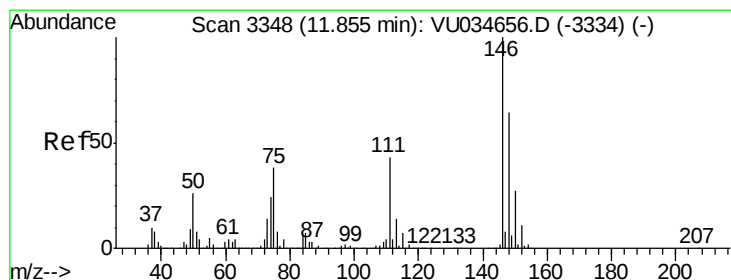
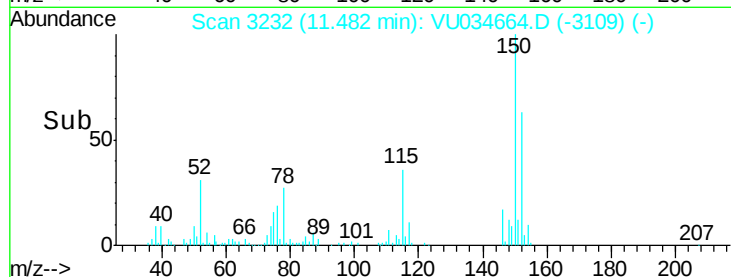
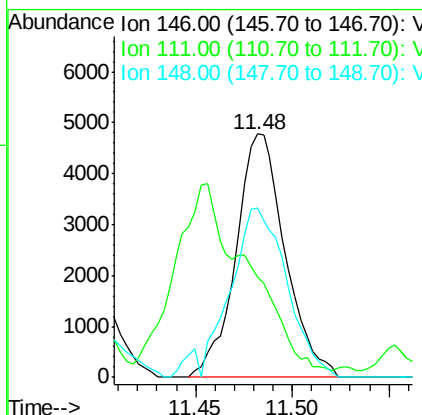
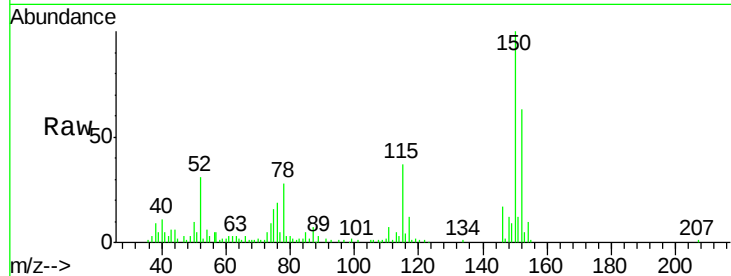




#63
 1,4-Dichlorobenzene
 Concen: 1.095 ug/L
 RT: 11.48 min Scan# 3232
 Delta R.T. -0.00 min
 Lab File: VU034664.D
 Acq: 19 Sep 2019 22:13

Instrument :
 MSVOA_U
 ClientSampleId :
 BFDH1

Tot Ion:146 Resp: 8453
 Ion Ratio Lower Upper
 146 100
 111 41.2 29.5 54.9
 148 69.4 44.4 82.4



#65
 1,2-Dichlorobenzene
 Concen: 12.412 ug/L
 RT: 11.85 min Scan# 3348
 Delta R.T. 0.00 min
 Lab File: VU034664.D
 Acq: 19 Sep 2019 22:13

Tgt Ion:146 Resp: 95020
 Ion Ratio Lower Upper
 146 100
 111 44.2 35.2 52.8
 148 61.1 53.0 79.6

