

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092319\
 Data File : VU034753.D
 Acq On : 23 Sep 2019 23:16
 Operator : JC/SP
 Sample : K4932-10
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFDJ8

Quant Time: Sep 24 05:29:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Sep 24 03:36:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	509268	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	490992	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	241985	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	204507	39.23	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	78.46%
7) Chloroethane-d5	1.67	69	171984	42.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	85.36%
11) 1,1-Dichloroethene-d2	2.26	63	292275	33.10	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.20%
21) 2-Butanone-d5	4.15	46	461312	115.45	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	115.45%
24) Chloroform-d	4.62	84	355340	46.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.76%
26) 1,2-Dichloroethane-d4	5.29	65	265775	47.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.40%
32) Benzene-d6	5.32	84	738359	48.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.04%
36) 1,2-Dichloropropane-d6	6.31	67	263220	49.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.98%
41) Toluene-d8	7.54	98	696099	48.08	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.16%
43) trans-1,3-Dichloropropene-	7.83	79	120531	47.31	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.62%
47) 2-Hexanone-d5	8.29	63	310005	116.04	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	116.04%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	357712	48.47	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.94%
64) 1,2-Dichlorobenzene-d4	11.84	152	260971	51.43	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.86%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acetone	2.31	43	610487	131.342	ug/L	98
16) Methylene chloride	2.68	84	68204	16.160	ug/L	97
19) 1,1-Dichloroethane	3.42	63	38530	4.611	ug/L	97
20) cis-1,2-Dichloroethene	4.21	96	11140	2.615	ug/L	86
22) 2-Butanone	4.24	43	142619	25.792	ug/L	99
29) Cyclohexane	4.97	56	12657	1.562	ug/L #	61
33) Benzene	5.37	78	638678	37.506	ug/L	100
34) Trichloroethene	6.16	95	181183	43.082	ug/L	94
35) Methylcyclohexane	6.39	83	9117	1.277	ug/L	96
40) 4-Methyl-2-pentanone	7.44	43	6400415	661.164	ug/L	99
42) Toluene	7.61	91	5285997	287.228	ug/L	99
46) Tetrachloroethene	8.21	164	32511	10.990	ug/L	96
51) Chlorobenzene	9.10	112	12272	1.097	ug/L #	87
52) Ethylbenzene	9.23	91	1019625	49.201	ug/L	99
53) m,p-Xylene	9.35	106	1325889	180.632	ug/L	98
54) o-xylene	9.76	106	705449	97.167	ug/L	100
56) Isopropylbenzene	10.14	105	66717	3.408	ug/L	99

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QLast Update : Tue Sep 24 03:36:55 2019
Response via : Initial Calibration

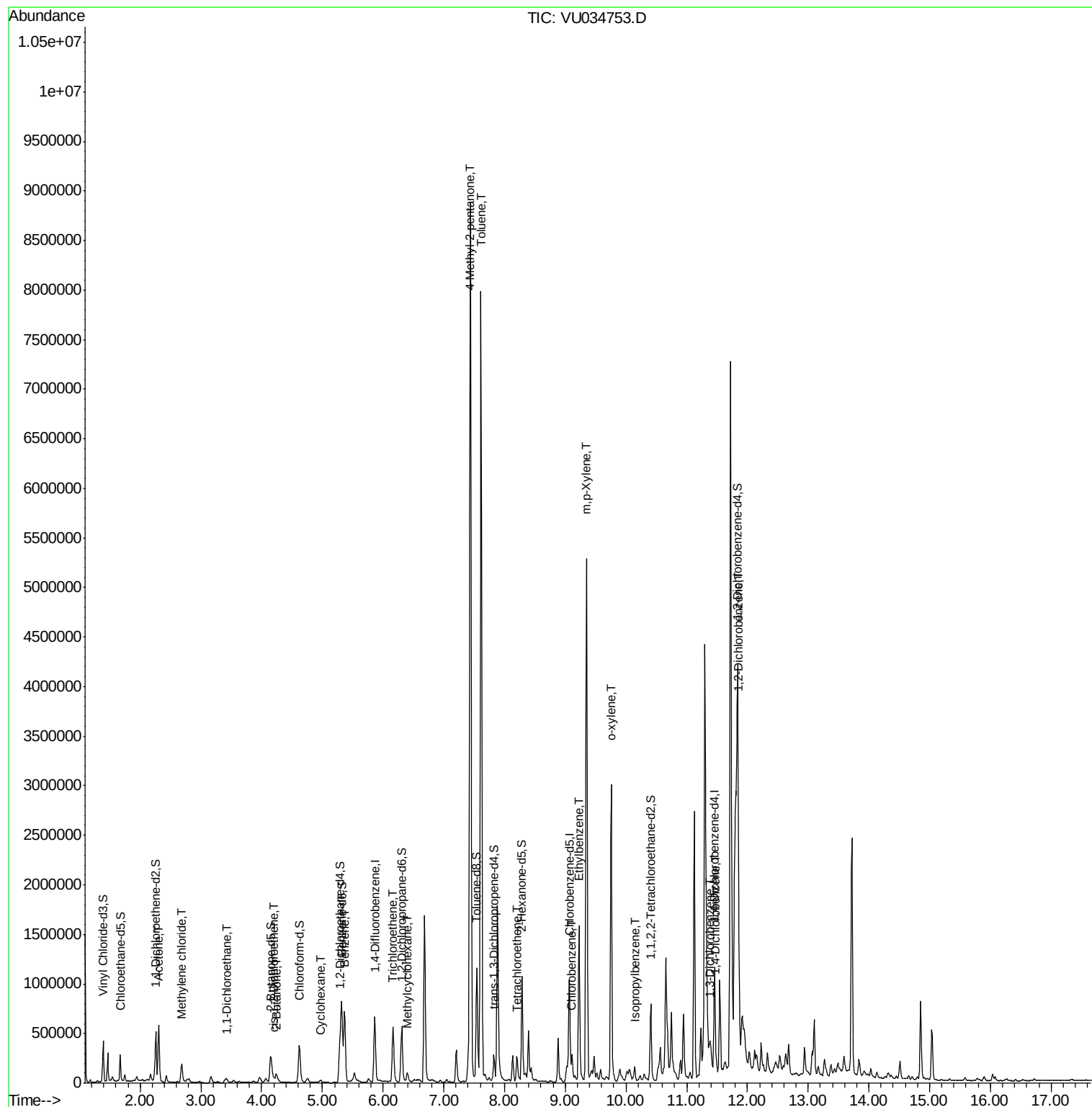
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3-Dichlorobenzene	11.40	146	9210	1.099	ug/L	91
63) 1,4-Dichlorobenzene	11.48	146	21108	2.473	ug/L	94
65) 1,2-Dichlorobenzene	11.85	146	227914	26.917	ug/L	99

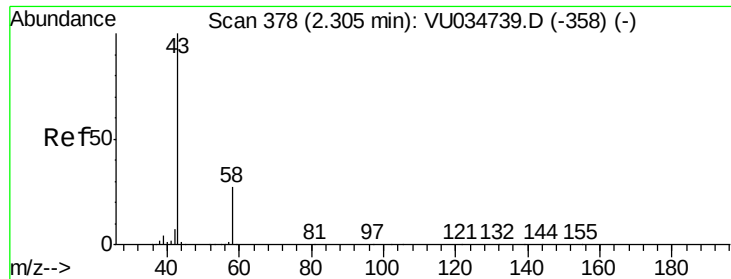
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 131.342 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VU034753.D

Acq: 23 Sep 2019 23:16

Instrument :

MSVOA_U

ClientSampleId :

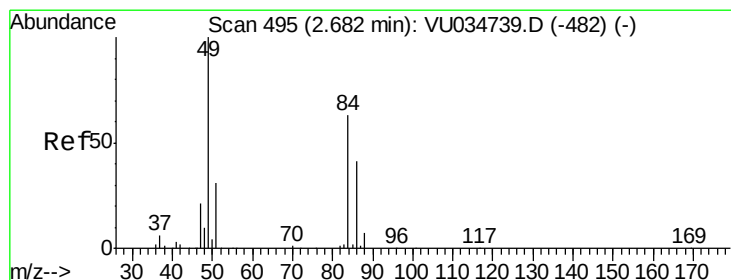
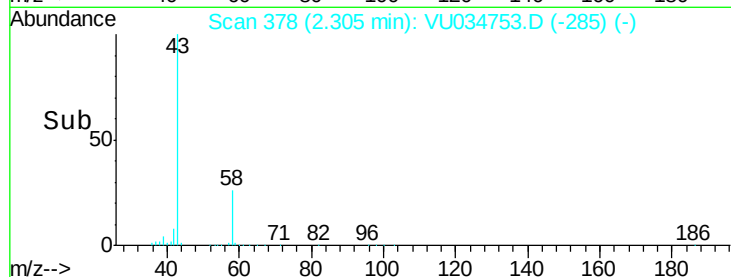
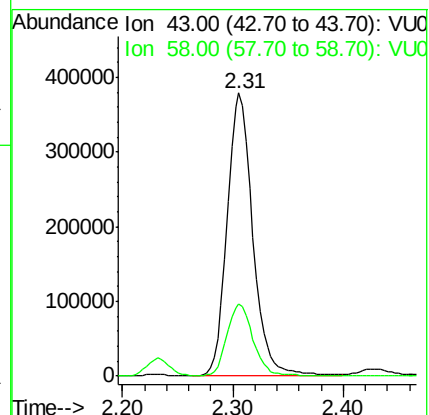
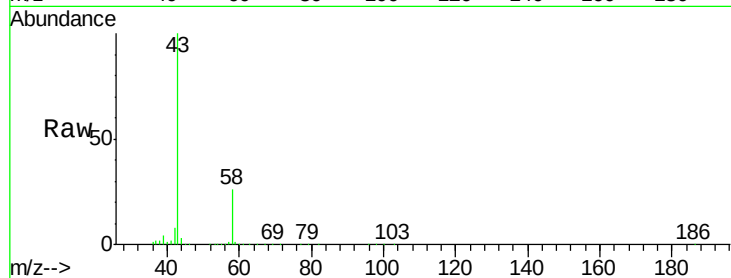
BFDJ8

Tot Ion: 43 Resp: 610487

Ion Ratio Lower Upper

43 100

58 25.6 0.0 53.4



#16

Methylene chloride

Concen: 16.160 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU034753.D

Acq: 23 Sep 2019 23:16

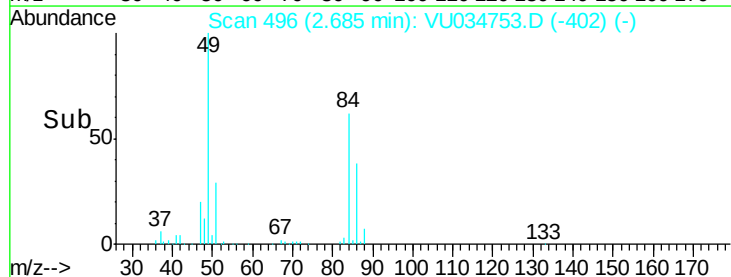
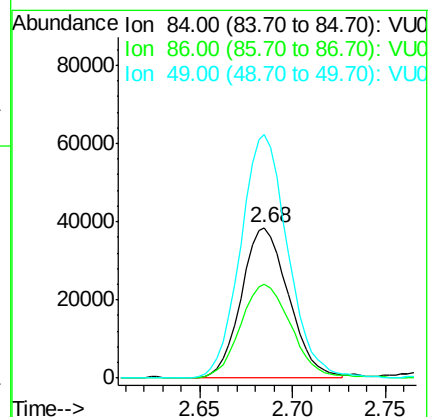
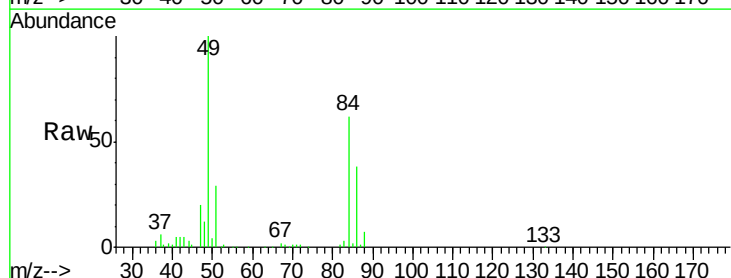
Tgt Ion: 84 Resp: 68204

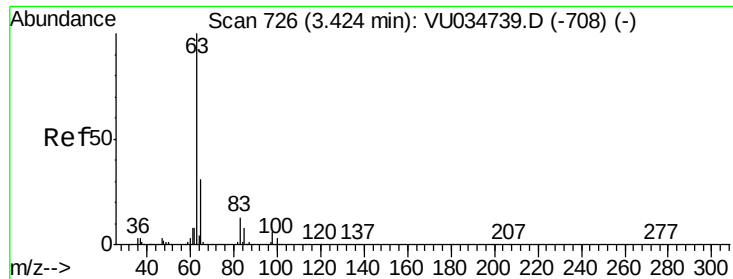
Ion Ratio Lower Upper

84 100

86 62.2 43.0 80.0

49 161.8 109.7 203.7

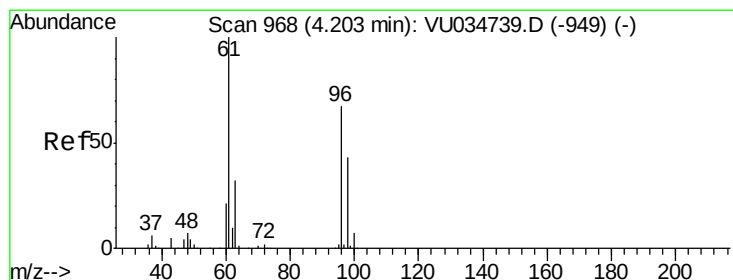
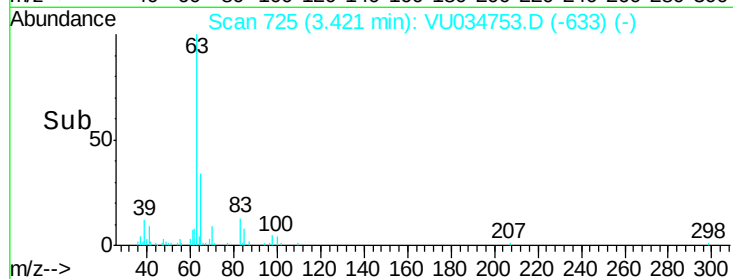
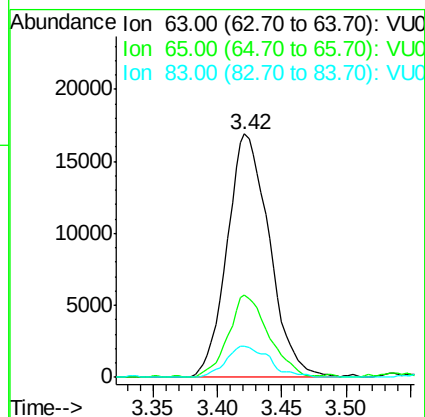
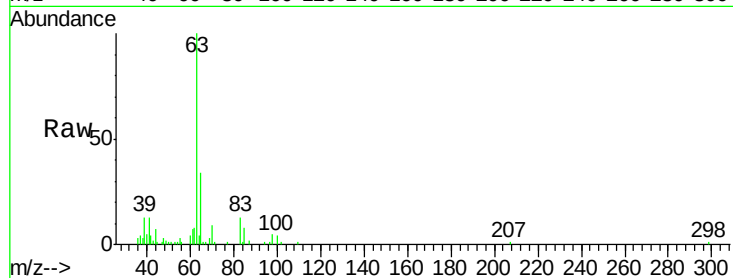




#19
 1,1-Dichloroethane
 Concen: 4.611 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. -0.00 min
 Lab File: VU034753.D
 Acq: 23 Sep 2019 23:16

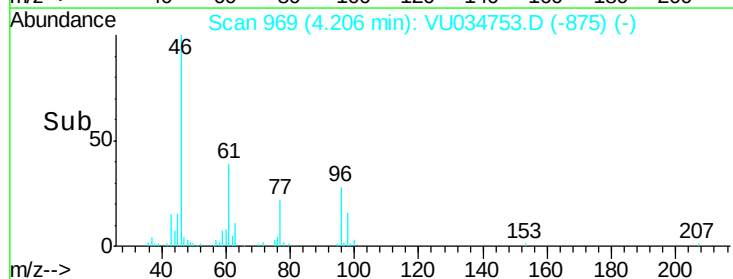
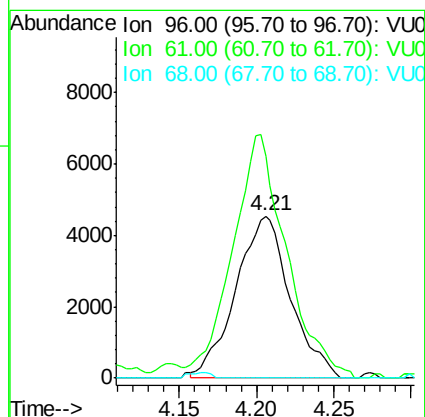
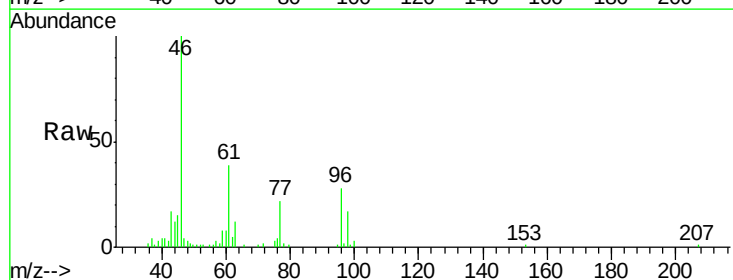
Instrument :
 MSVOA_U
 ClientSampleId :
 BFDJ8

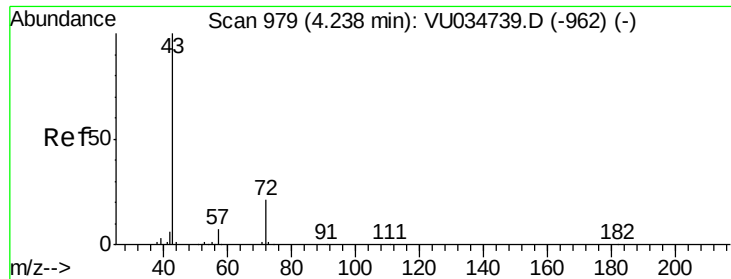
Tot Ion	Ratio	Lower	Upper
63	100		
65	33.7	22.0	40.8
83	12.7	8.9	16.5



#20
 cis-1,2-Dichloroethene
 Concen: 2.615 ug/L
 RT: 4.21 min Scan# 969
 Delta R.T. 0.00 min
 Lab File: VU034753.D
 Acq: 23 Sep 2019 23:16

Tgt Ion	Ratio	Lower	Upper
96	100		
61	136.9	108.8	202.2
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 25.792 ug/L

RT: 4.24 min Scan# 980

Delta R.T. 0.00 min

Lab File: VU034753.D

Acq: 23 Sep 2019 23:16

Instrument :

MSVOA_U

ClientSampleId :

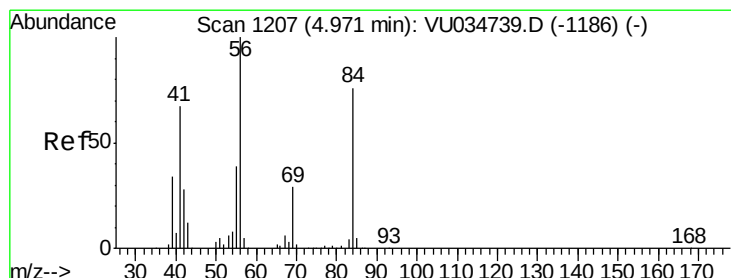
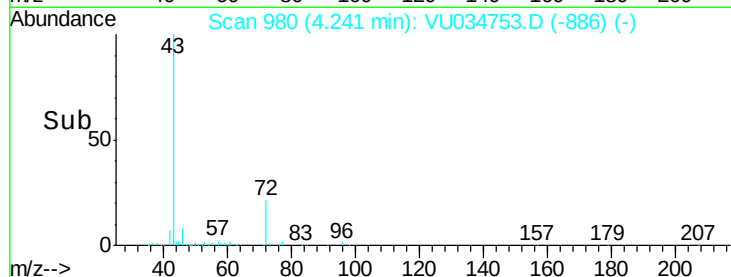
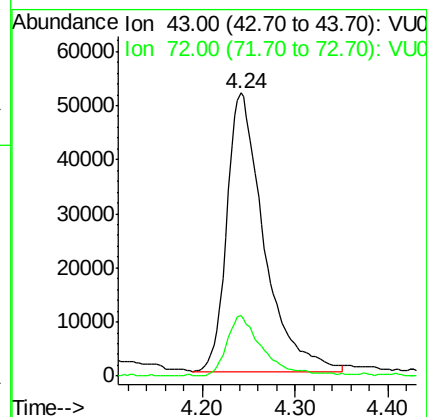
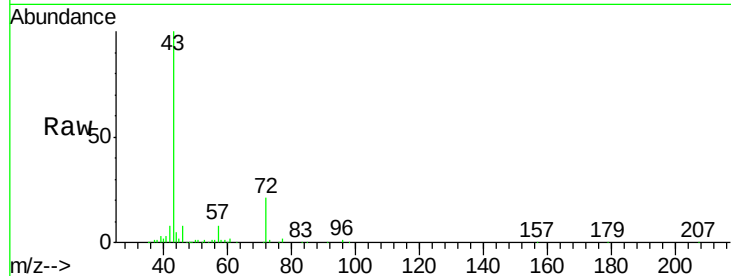
BFDJ8

Tot Ion: 43 Resp: 142619

Ion Ratio Lower Upper

43 100

72 19.8 10.2 30.6



#29

Cyclohexane

Concen: 1.562 ug/L

RT: 4.97 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VU034753.D

Acq: 23 Sep 2019 23:16

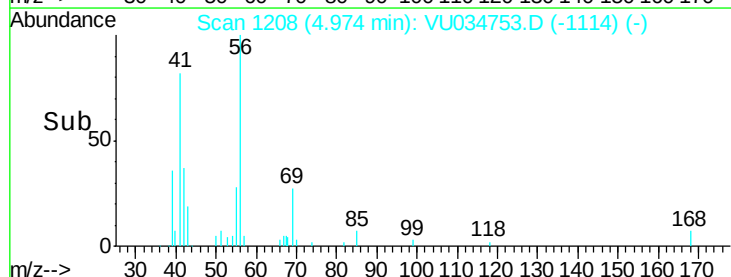
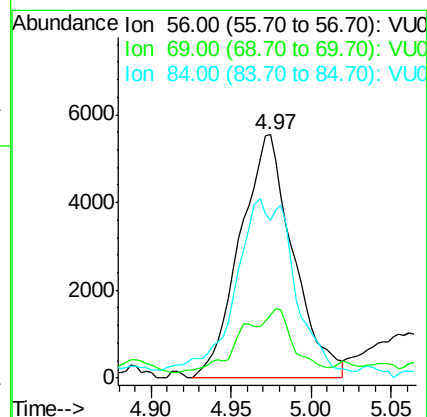
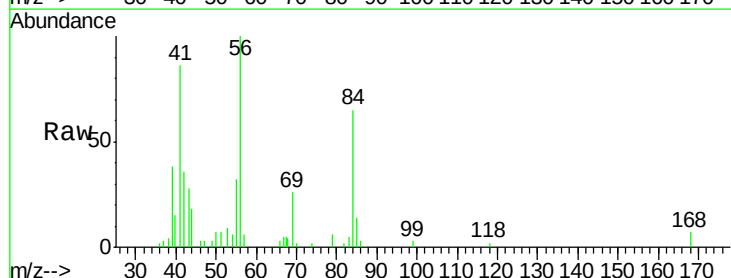
Tgt Ion: 56 Resp: 12657

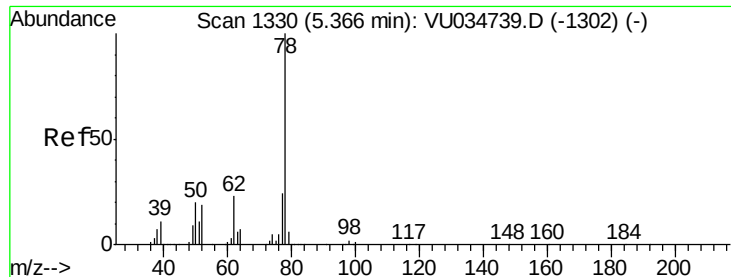
Ion Ratio Lower Upper

56 100

69 12.2 21.7 32.5#

84 37.2 58.8 88.2#





#33

Benzene

Concen: 37.506 ug/L

RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VU034753.D

Acq: 23 Sep 2019 23:16

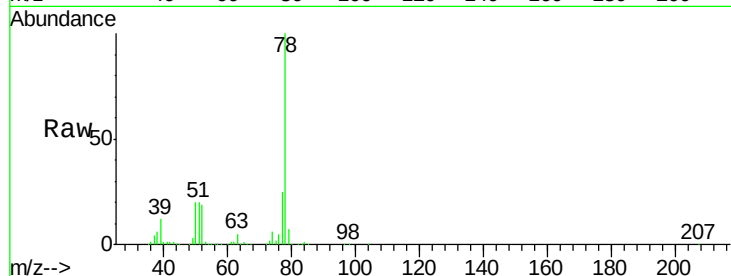
Instrument :

MSVOA_U

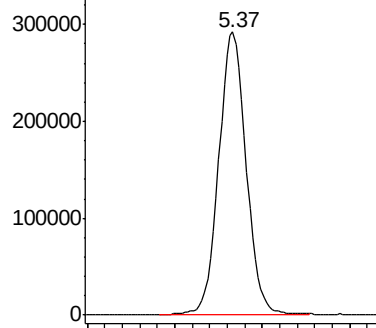
ClientSampleId :

BFDJ8

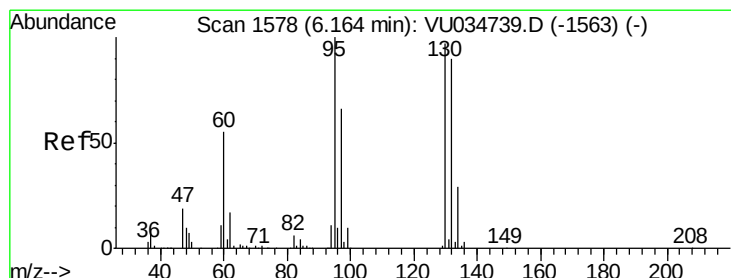
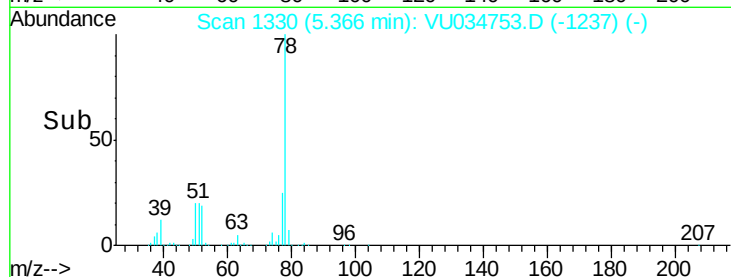
Tgt Ion: 78 Resp: 638678



Abundance Ion 78.00 (77.70 to 78.70): VU0



Time--> 5.20 5.30 5.40 5.50



#34

Trichloroethene

Concen: 43.082 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU034753.D

Acq: 23 Sep 2019 23:16

Tgt Ion: 95 Resp: 181183

Ion	Ratio	Lower	Upper
95	100		
97	66.3	43.7	81.1
132	94.3	61.0	113.2
130	98.2	65.7	121.9

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

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

6.16

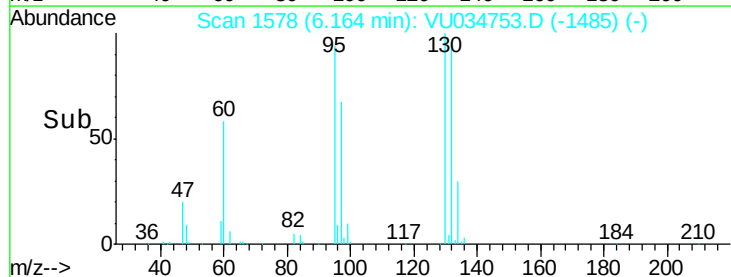
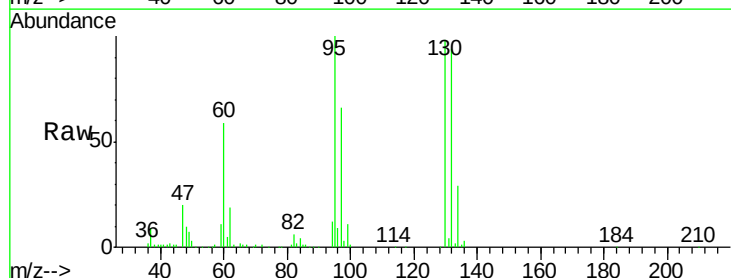
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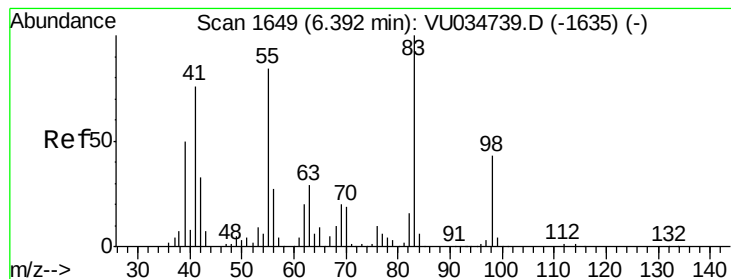
50000

0

6.10 6.15 6.20 6.25

Time-->





#35

Methylcyclohexane

Concen: 1.277 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU034753.D

Acq: 23 Sep 2019 23:16

Instrument :

MSVOA_U

ClientSampled :

BFDJ8

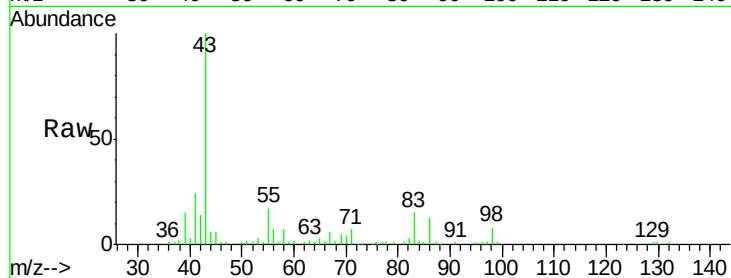
Tot Ion: 83 Resp: 9117

Ion Ratio Lower Upper

83 100

55 85.7 71.6 107.4

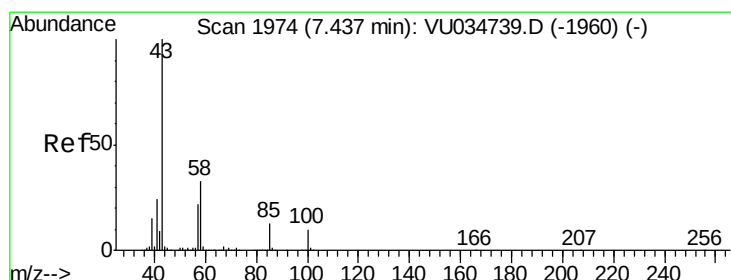
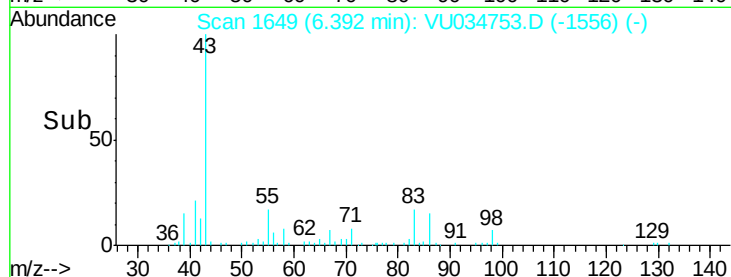
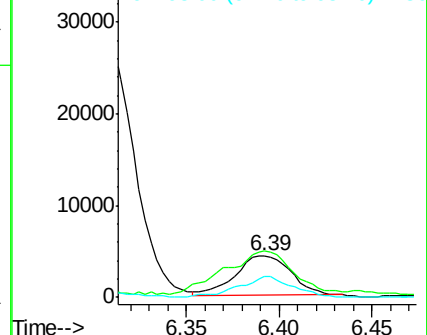
98 47.3 35.7 53.5



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



#40

4-Methyl-2-pentanone

Concen: 661.164 ug/L

RT: 7.44 min Scan# 1974

Delta R.T. -0.00 min

Lab File: VU034753.D

Acq: 23 Sep 2019 23:16

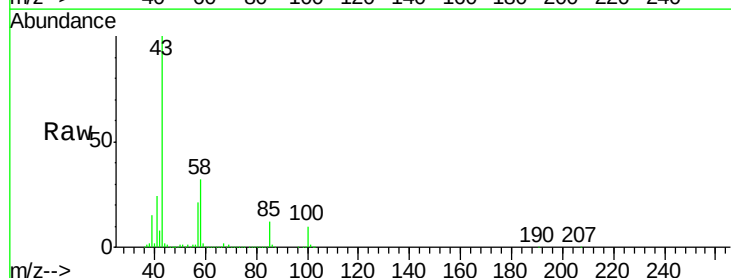
Tgt Ion: 43 Resp: 6400415

Ion Ratio Lower Upper

43 100

58 32.4 25.2 37.8

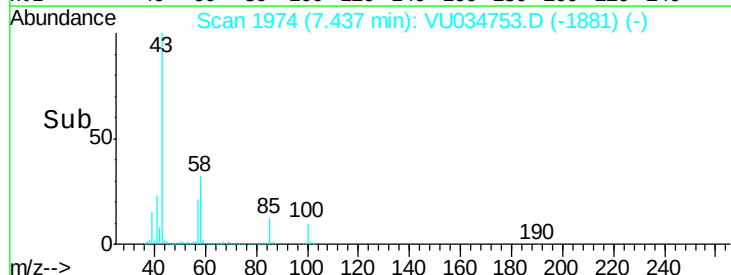
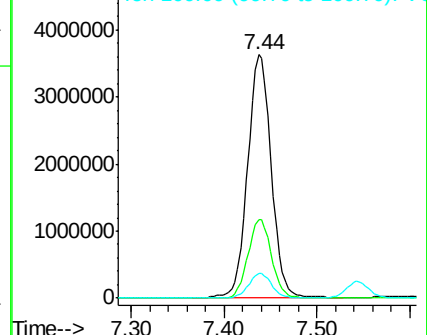
100 10.0 7.7 11.5

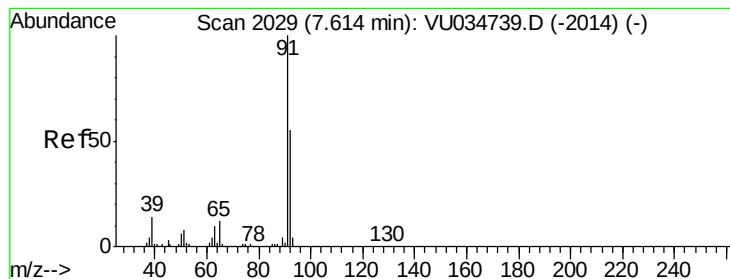


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#42

Toluene

Concen: 287.228 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. -0.00 min

Lab File: VU034753.D

Acq: 23 Sep 2019 23:16

Instrument :

MSVOA_U

ClientSampleId :

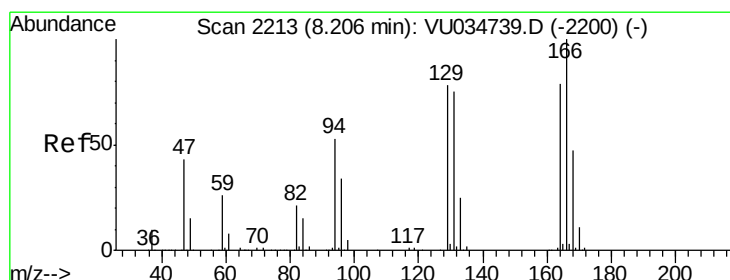
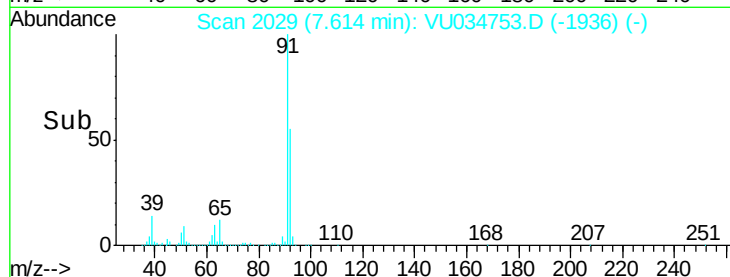
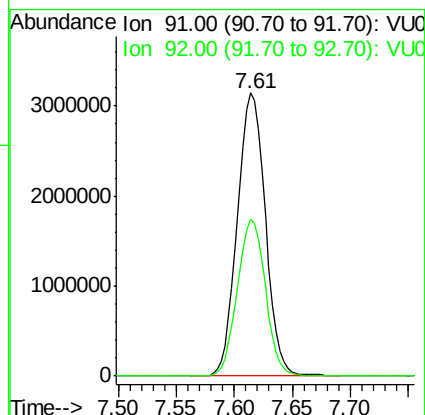
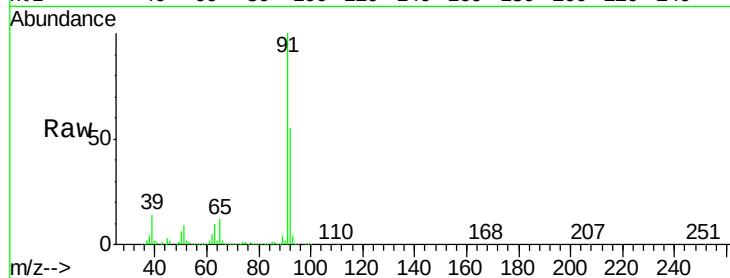
BFDJ8

Tot Ion: 91 Resp: 5285997

Ion Ratio Lower Upper

91 100

92 55.2 38.2 71.0



#46

Tetrachloroethene

Concen: 10.990 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. -0.00 min

Lab File: VU034753.D

Acq: 23 Sep 2019 23:16

Tgt Ion:164 Resp: 32511

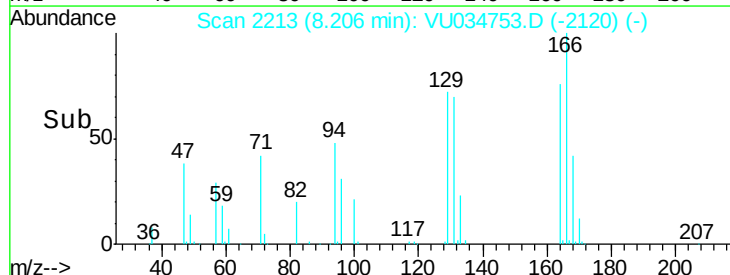
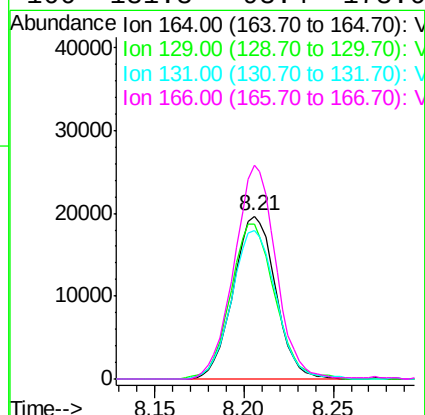
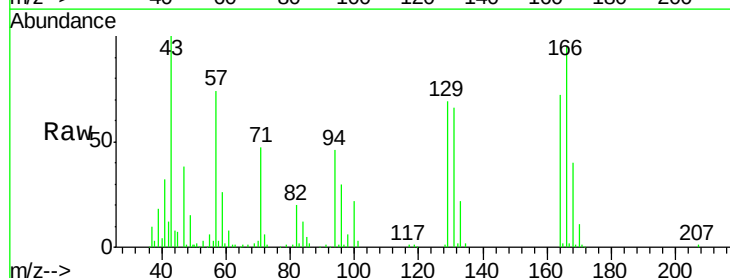
Ion Ratio Lower Upper

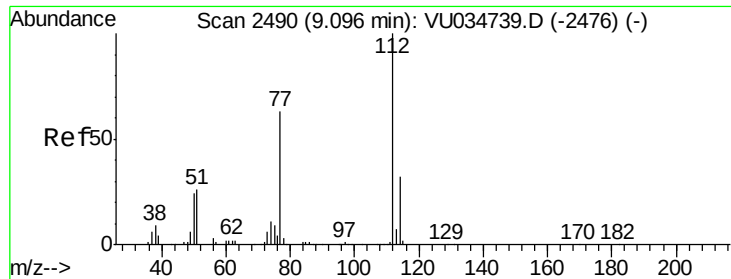
164 100

129 94.9 71.9 133.5

131 91.3 66.3 123.1

166 131.3 93.4 173.6





#51

Chlorobenzene

Concen: 1.097 ug/L

RT: 9.10 min Scan# 2491

Delta R.T. 0.00 min

Lab File: VU034753.D

Acq: 23 Sep 2019 23:16

Instrument :

MSVOA_U

ClientSampleId :

BFDJ8

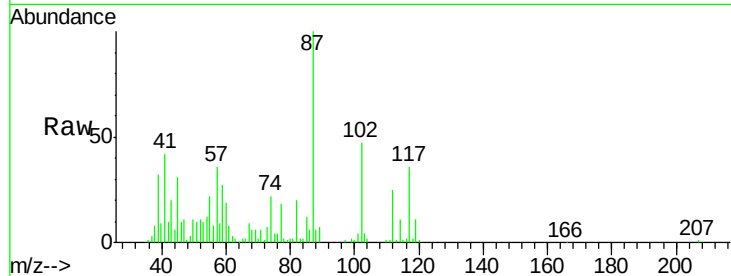
Tot Ion:112 Resp: 12272

Ion Ratio Lower Upper

112 100

114 44.4 22.8 42.4#

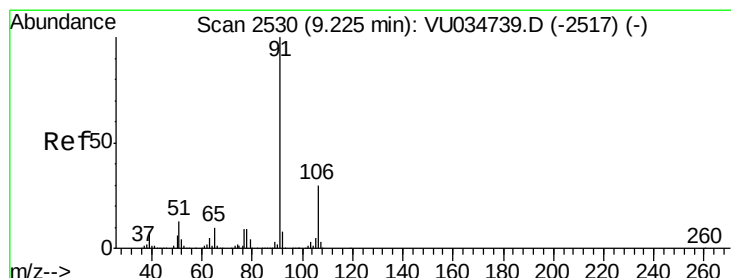
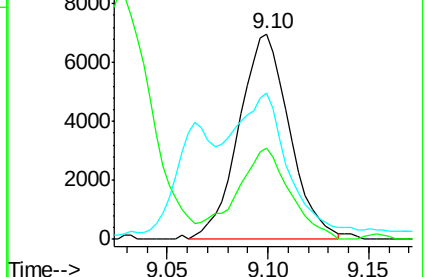
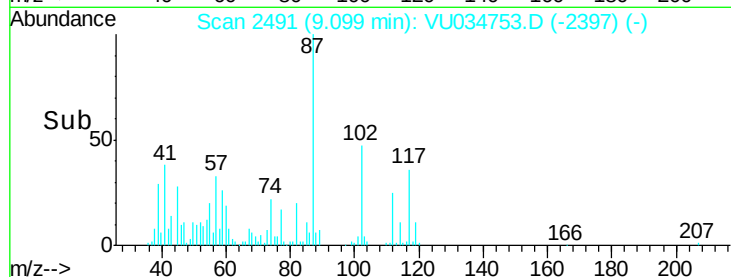
77 71.1 51.5 77.3



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): V



#52

Ethylbenzene

Concen: 49.201 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034753.D

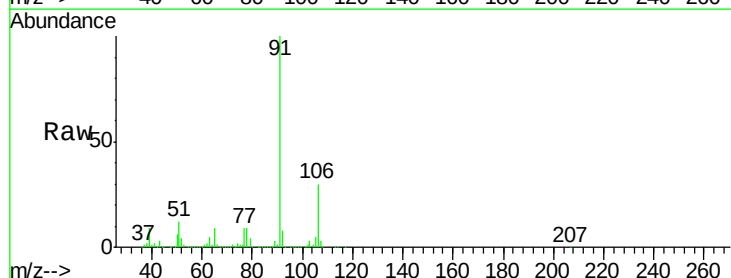
Acq: 23 Sep 2019 23:16

Tgt Ion: 91 Resp: 1019625

Ion Ratio Lower Upper

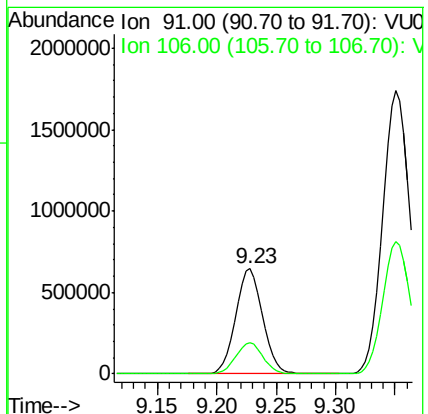
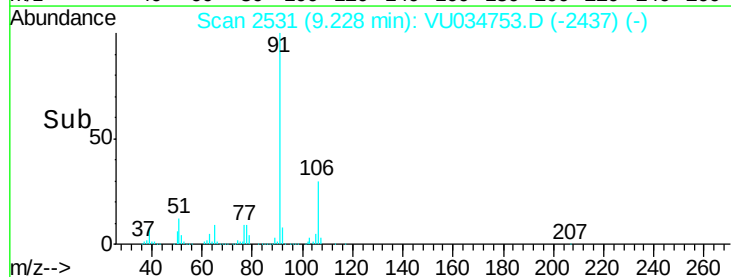
91 100

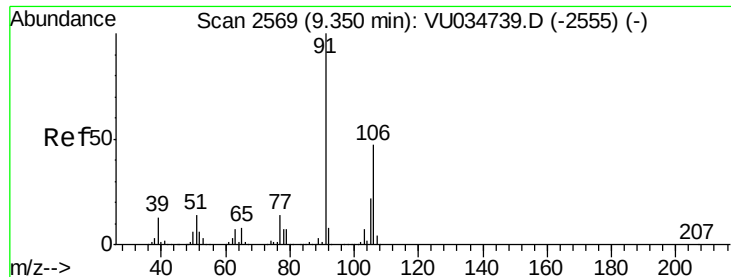
106 30.0 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 180.632 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034753.D

Acq: 23 Sep 2019 23:16

Instrument :

MSVOA_U

ClientSampleId :

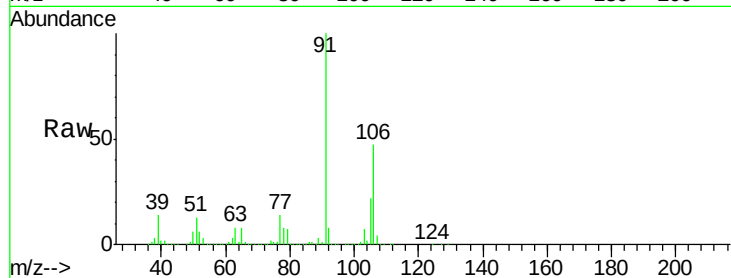
BFDJ8

Tot Ion:106 Resp: 1325889

Ion Ratio Lower Upper

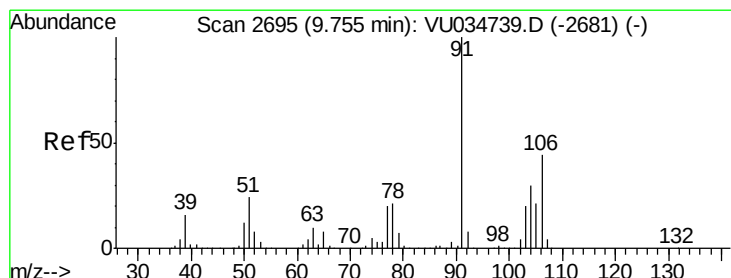
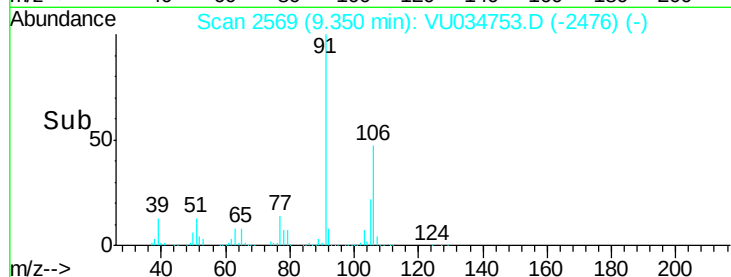
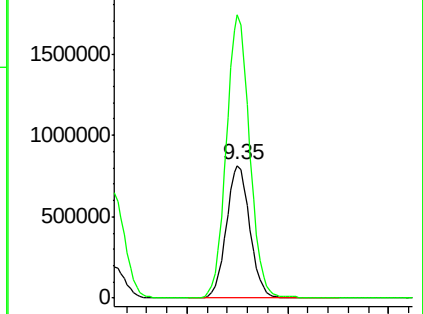
106 100

91 213.3 146.9 272.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 97.167 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.00 min

Lab File: VU034753.D

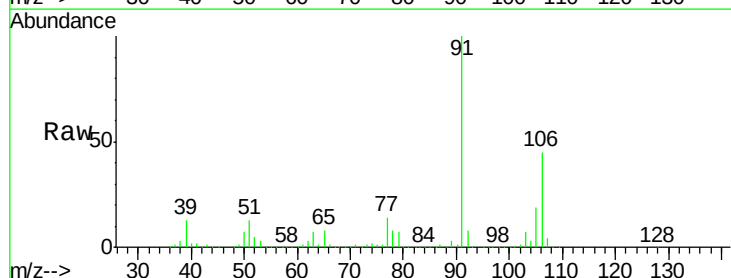
Acq: 23 Sep 2019 23:16

Tgt Ion:106 Resp: 705449

Ion Ratio Lower Upper

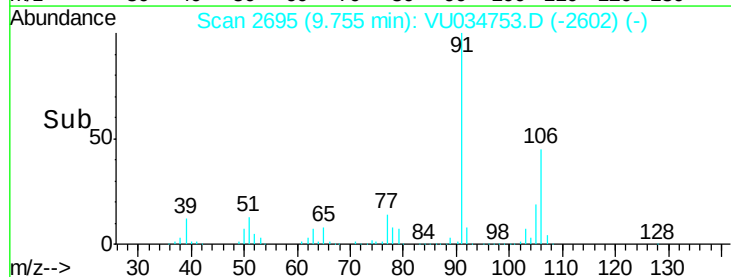
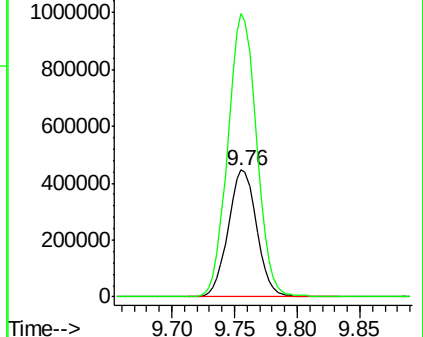
106 100

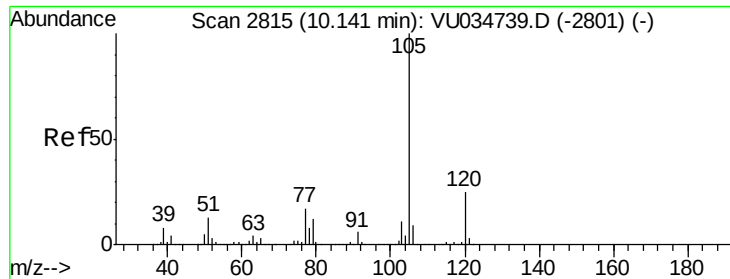
91 223.0 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#56

Isopropylbenzene

Concen: 3.408 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034753.D

Acq: 23 Sep 2019 23:16

Instrument :

MSVOA_U

ClientSampled :

BFDJ8

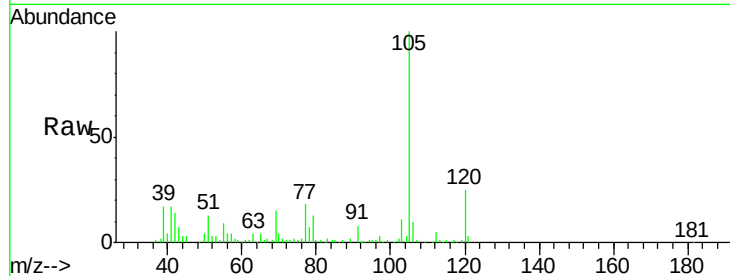
Tot Ion:105 Resp: 66717

Ion Ratio Lower Upper

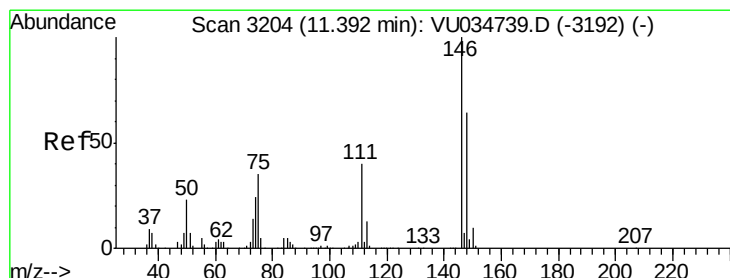
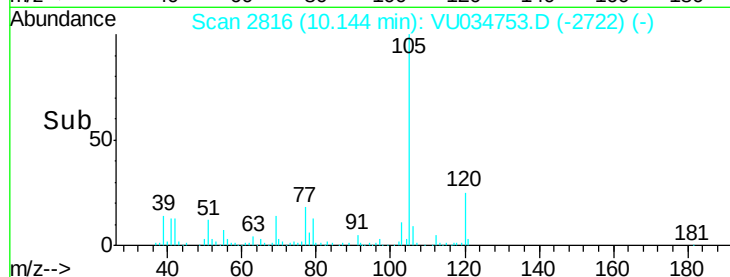
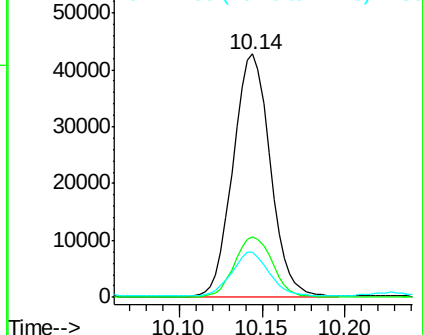
105 100

120 25.5 20.4 30.6

77 18.3 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: 1.099 ug/L

RT: 11.40 min Scan# 3205

Delta R.T. 0.00 min

Lab File: VU034753.D

Acq: 23 Sep 2019 23:16

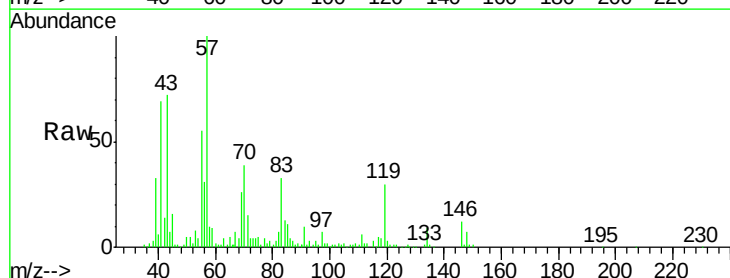
Tgt Ion:146 Resp: 9210

Ion Ratio Lower Upper

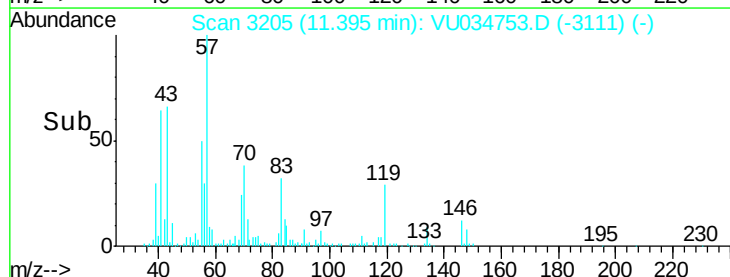
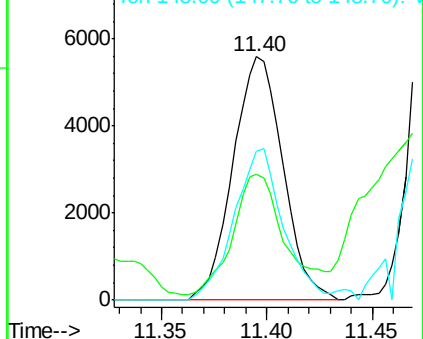
146 100

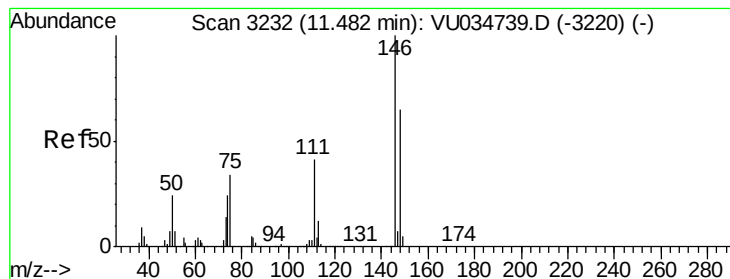
111 51.7 30.4 56.5

148 61.3 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: 2.473 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. -0.00 min

Lab File: VU034753.D

Acq: 23 Sep 2019 23:16

Instrument :

MSVOA_U

ClientSampleId :

BFDJ8

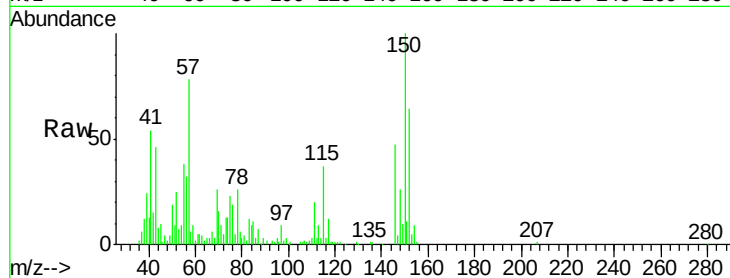
Tot Ion:146 Resp: 21108

Ion Ratio Lower Upper

146 100

111 43.4 29.5 54.9

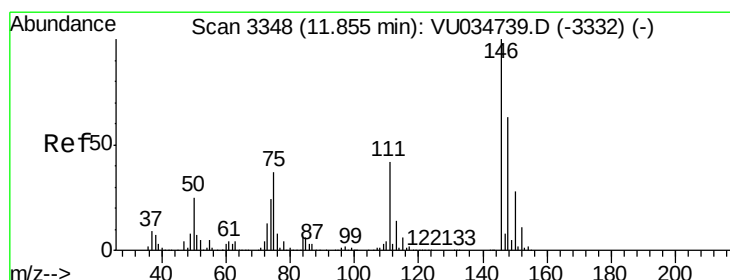
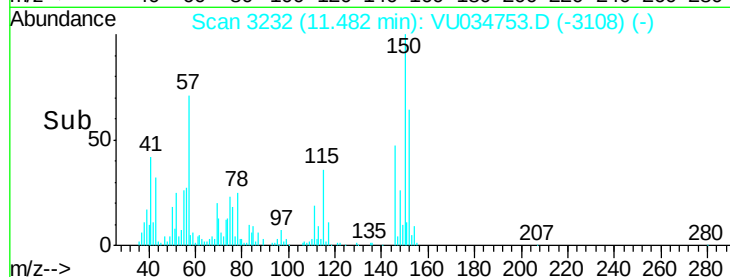
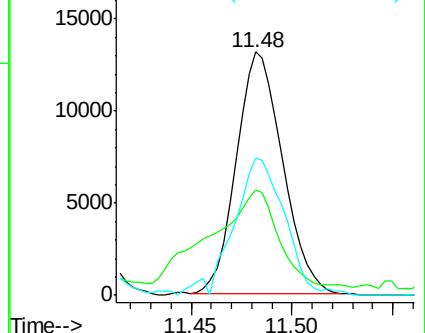
148 56.4 44.4 82.4



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: 26.917 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. -0.00 min

Lab File: VU034753.D

Acq: 23 Sep 2019 23:16

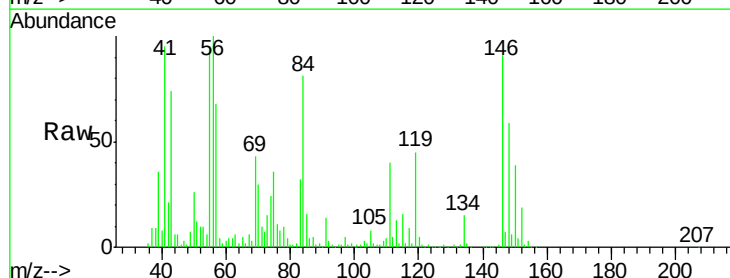
Tgt Ion:146 Resp: 227914

Ion Ratio Lower Upper

146 100

111 43.5 35.2 52.8

148 64.8 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

