

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091919\
 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

Manual Integrations
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 9/20/2019 12:46:31 PM

Quant Time: Sep 20 07:07:02 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

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
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	31358m	5.792	ug/L	
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
63) 1,4-Dichlorobenzene	11.49	146	11046	1.370	ug/L	93

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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)
65) 1,2-Dichlorobenzene	11.85	146	103167	12.898	ug/L	99

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

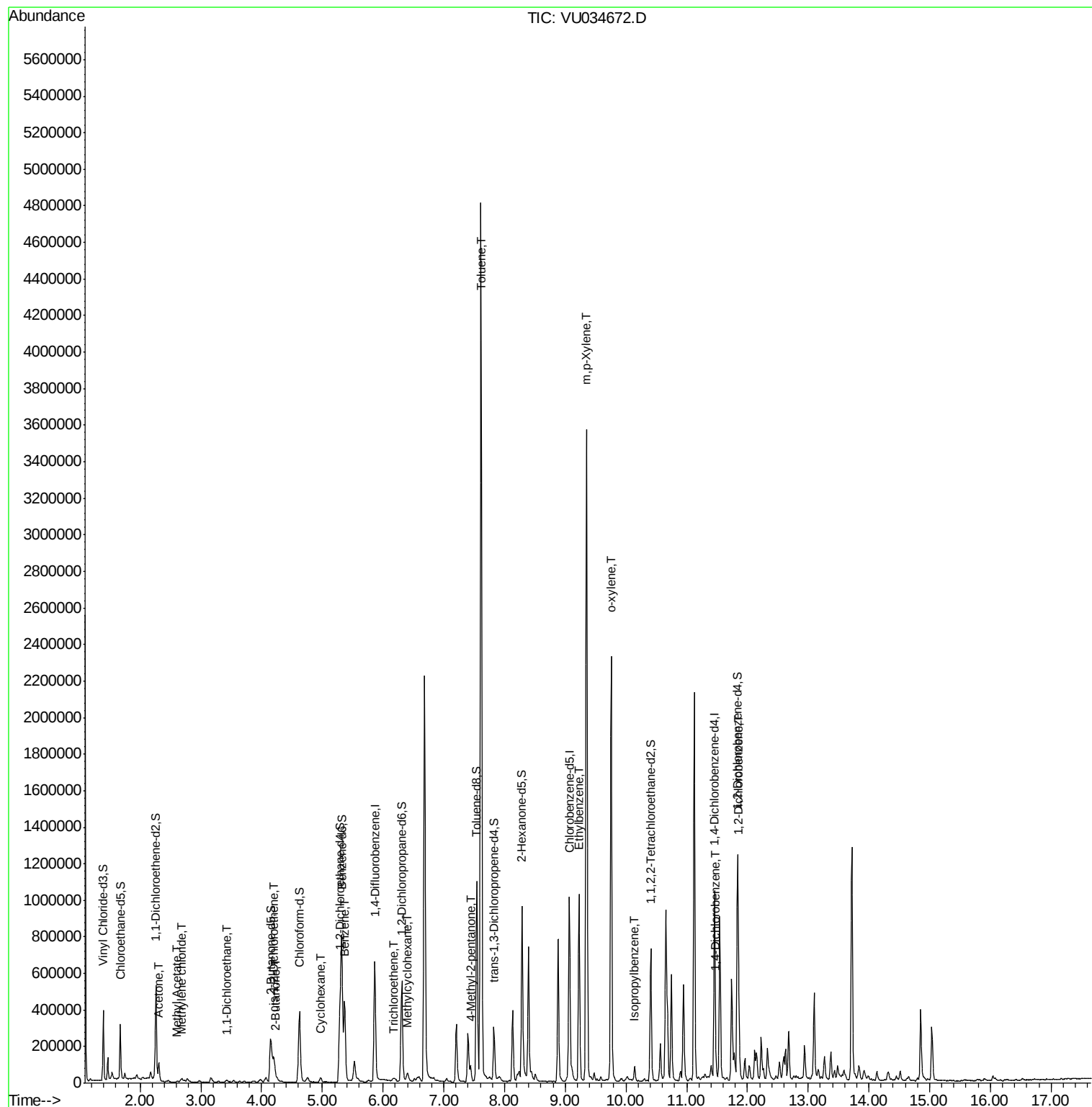
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Data File : VU034672.D
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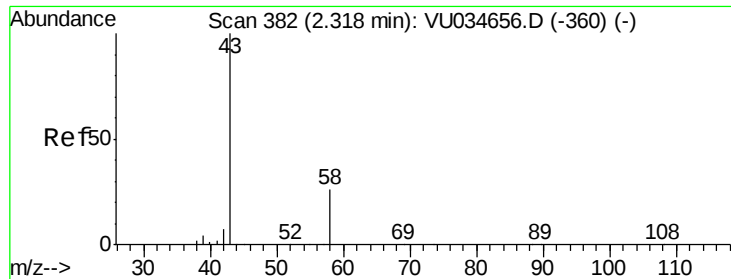
Instrument :
MSVOA_U
ClientSampleId :
BFDH4

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Quant Time: Sep 20 07:07:02 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Sep 20 04:02:05 2019
Response via : Initial Calibration





#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

Instrument :

MSVOA_U

ClientSampleId :

BFDH4

Tot Ion: 43 Resp: 113401

Ion Ratio Lower Upper

43 100

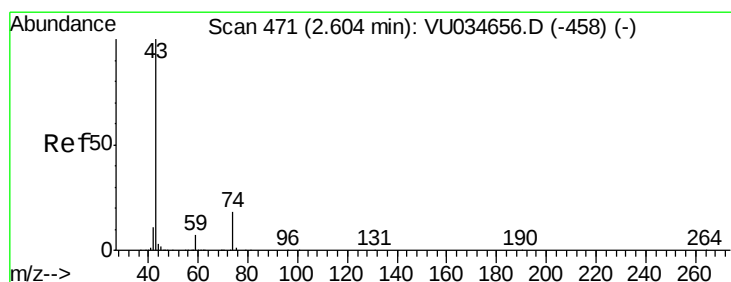
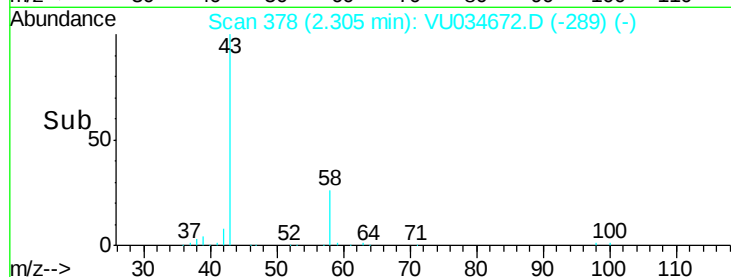
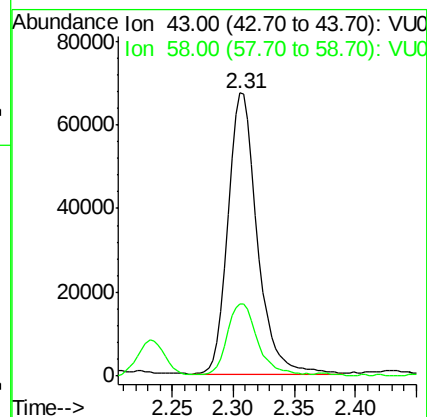
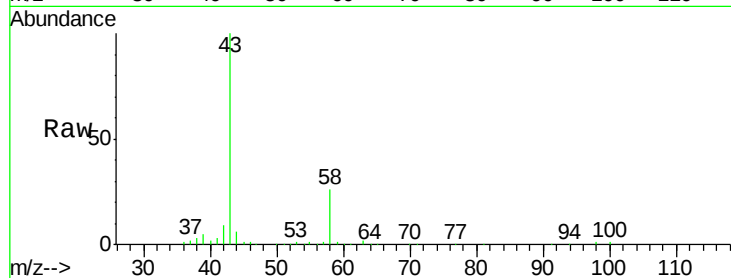
58 27.2 0.0 53.4

Manual Integrations

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#15

Methyl Acetate

Concen: 1.092 ug/L

RT: 2.61 min Scan# 472

Delta R.T. 0.00 min

Lab File: VU034672.D

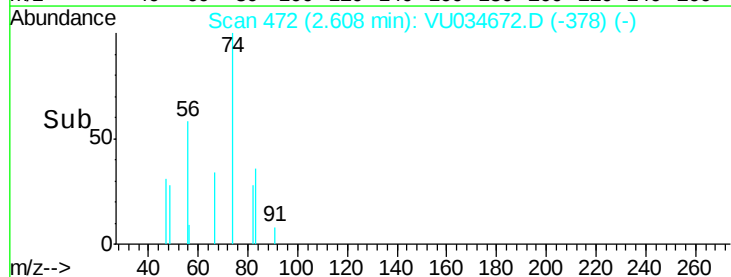
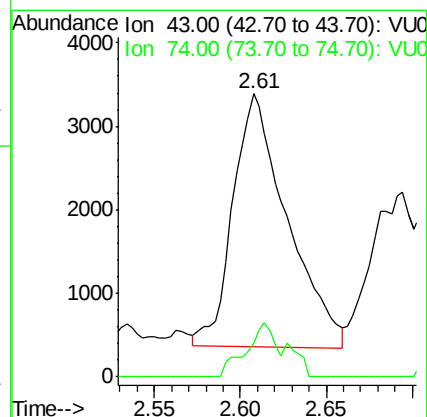
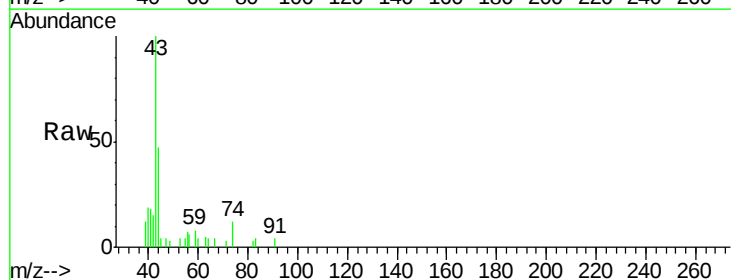
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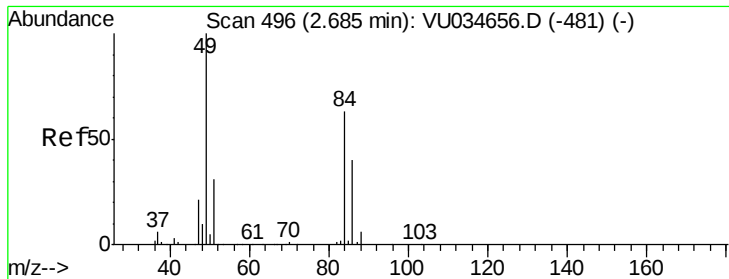
Tgt Ion: 43 Resp: 6641

Ion Ratio Lower Upper

43 100

74 5.5 14.4 21.6#





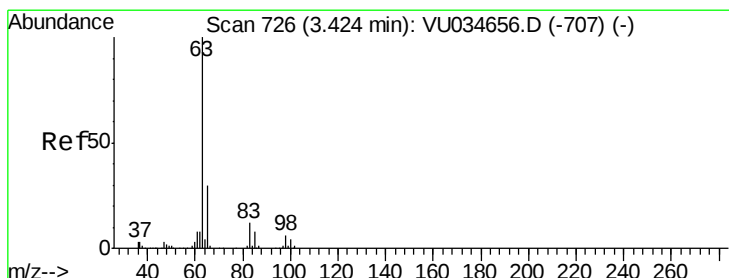
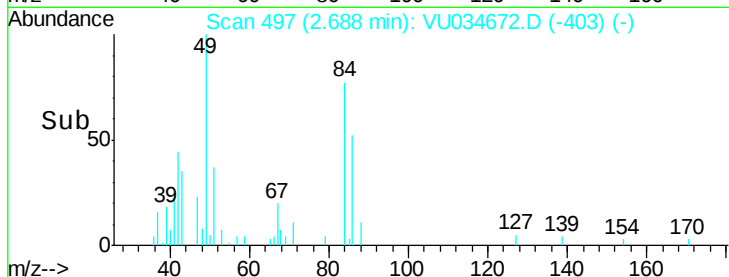
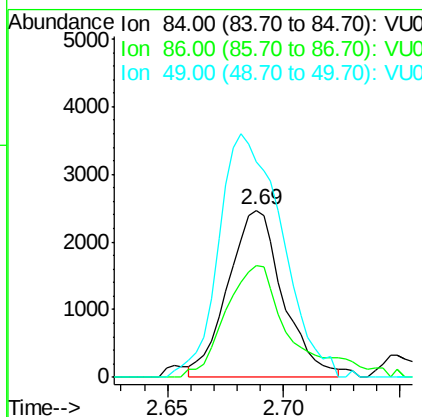
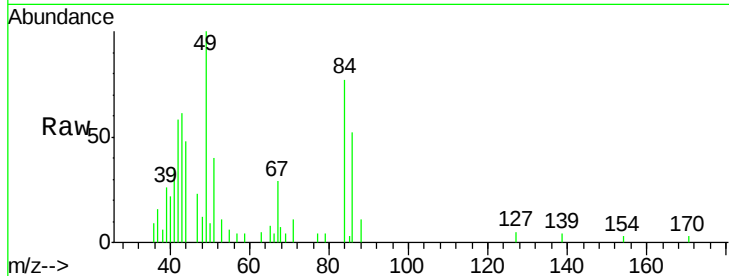
#16
Methvlene chloride
Concen: 0.985 ug/L
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034672.D
Acq: 20 Sep 2019 01:20

Instrument :
MSVOA_U
ClientSampleId :
BFDH4

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

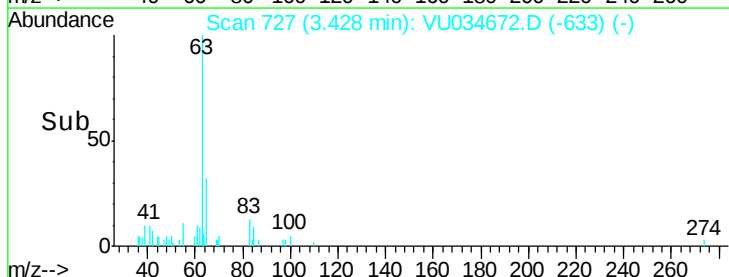
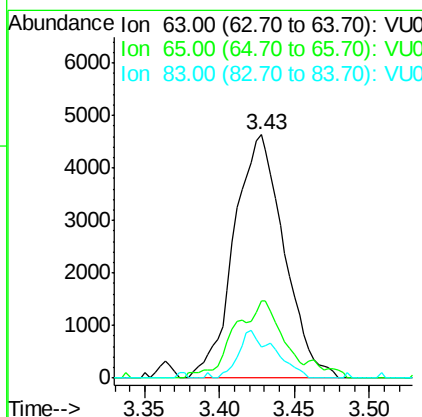
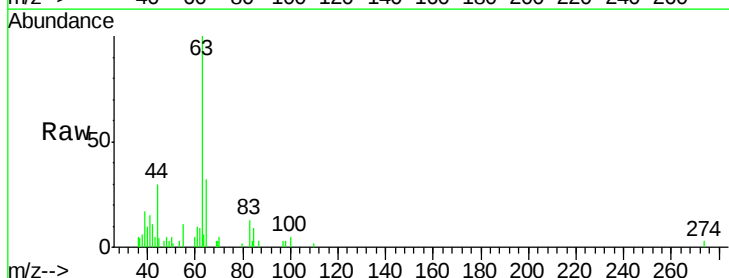
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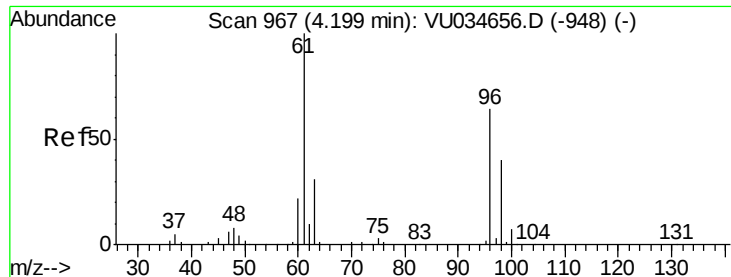
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#19
1,1-Dichloroethane
Concen: 1.314 ug/L
RT: 3.43 min Scan# 727
Delta R.T. 0.00 min
Lab File: VU034672.D
Acq: 20 Sep 2019 01:20

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





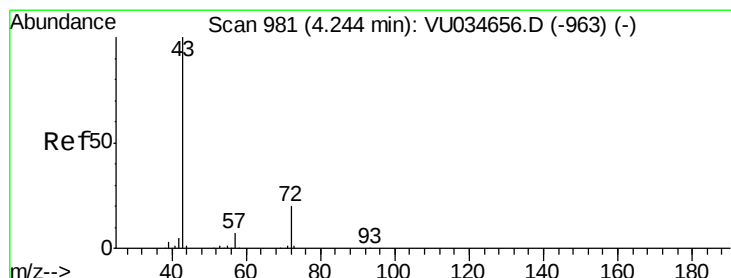
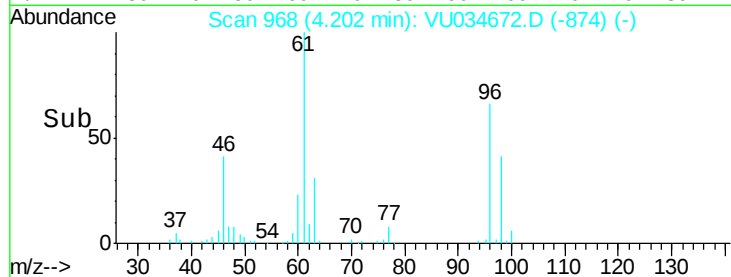
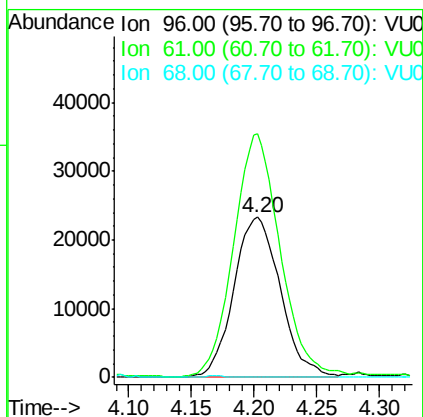
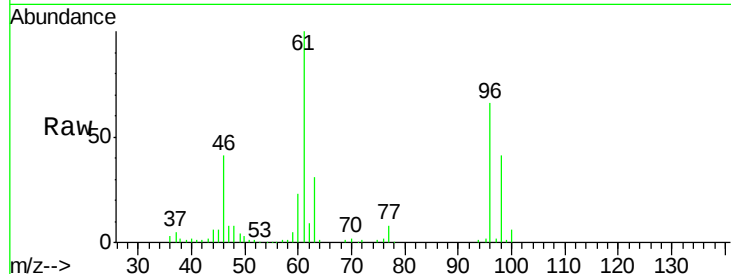
#20
 cis-1,2-Dichloroethene
 Concen: 14.430 ug/L
 RT: 4.20 min Scan# 968
 Delta R.T. 0.00 min
 Lab File: VU034672.D
 Acq: 20 Sep 2019 01:20

Instrument :
 MSVOA_U
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Tot Ion	Ratio	Lower	Upper
96	100		
61	151.9	108.8	202.2
68	0.0	0.0	0.0

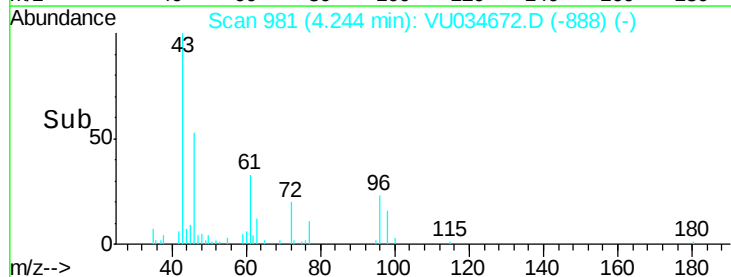
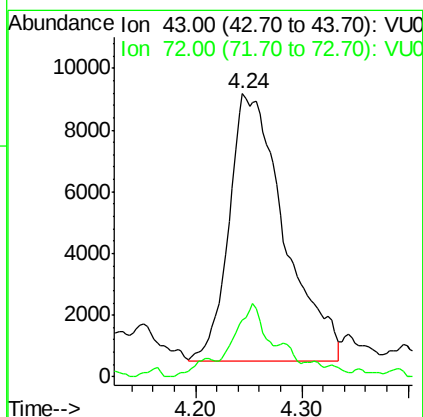
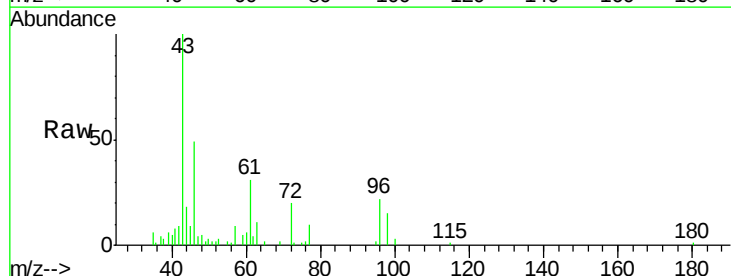
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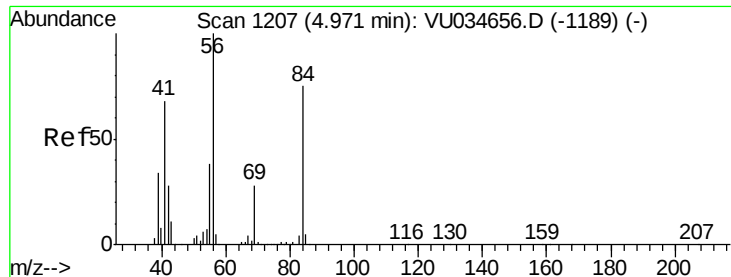
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#22
 2-Butanone
 Concen: 5.792 ug/L m
 RT: 4.24 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VU034672.D
 Acq: 20 Sep 2019 01:20

Tgt Ion	Ratio	Lower	Upper
43	100		
72	9.6	10.2	30.6#





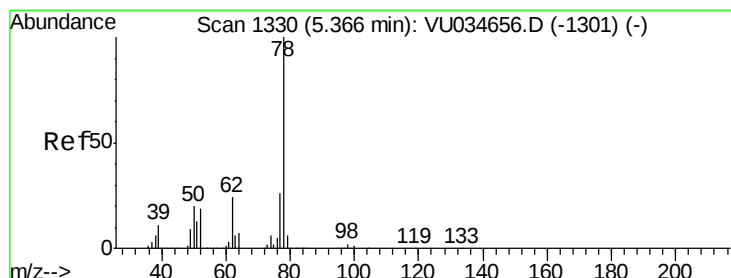
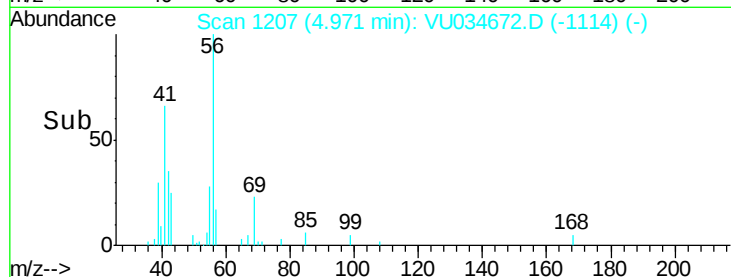
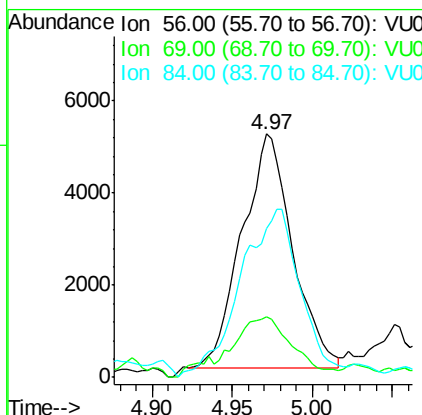
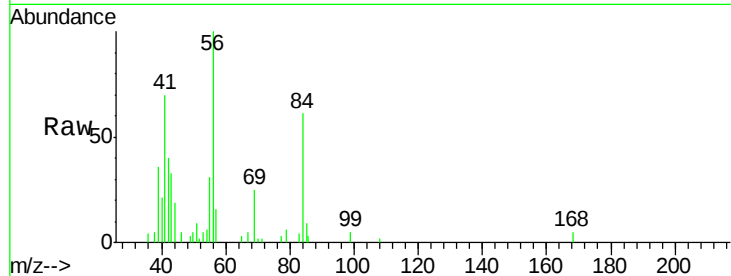
#29
Cyclohexane
Concen: 1.398 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU034672.D
Acq: 20 Sep 2019 01:20

Instrument :
MSVOA_U
ClientSampleId :
BFDH4

Tot Ion	Ratio	Lower	Upper
56	100		
69	28.1	21.7	32.5
84	30.1	58.8	88.2#

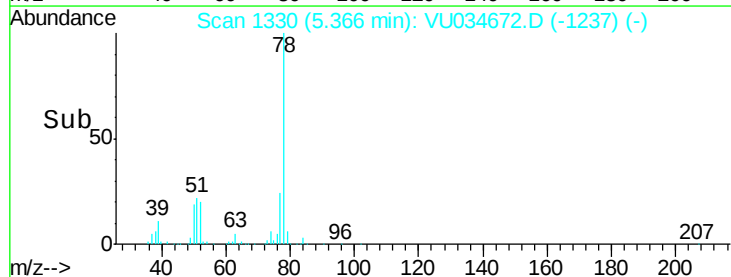
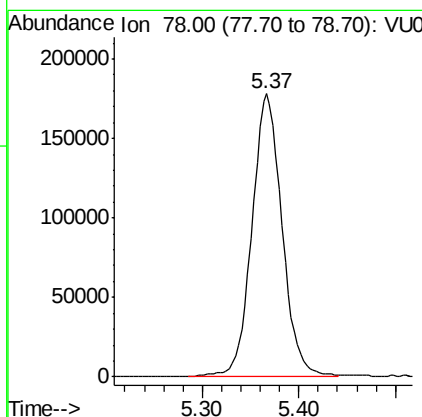
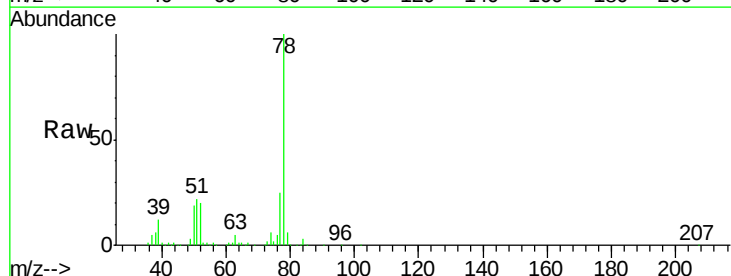
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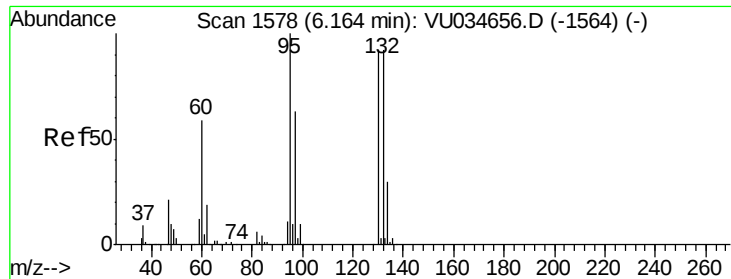
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#33
Benzene
Concen: 23.064 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU034672.D
Acq: 20 Sep 2019 01:20

Tgt Ion: 78 Resp: 384256





#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

Instrument :

MSVOA_U

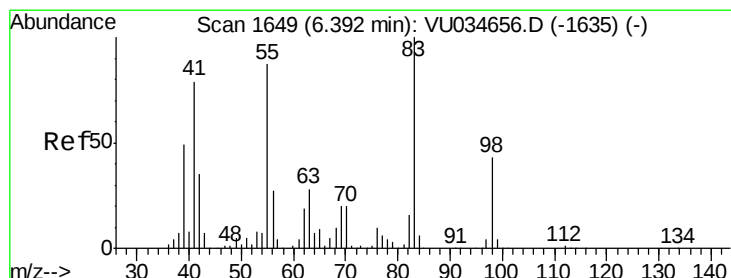
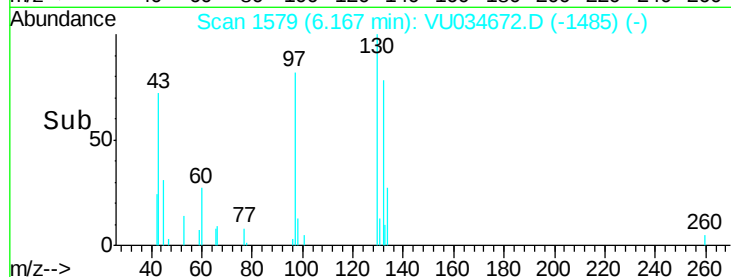
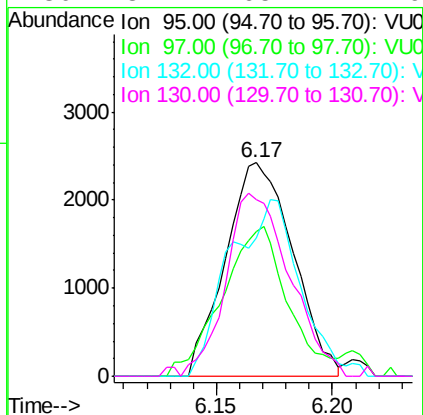
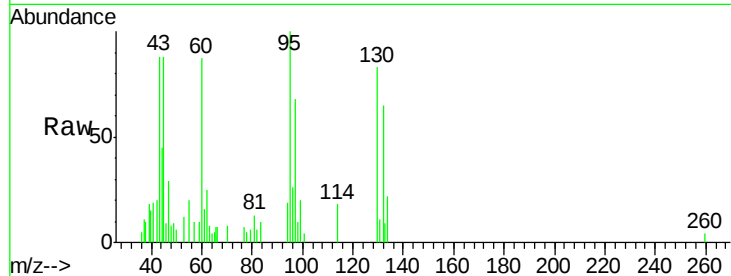
ClientSampleId :

BFDH4

Tot 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

Manual Integrations
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#35

Methylcyclohexane

Concen: 1.247 ug/L

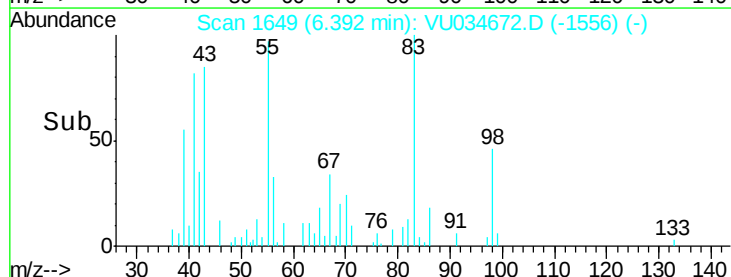
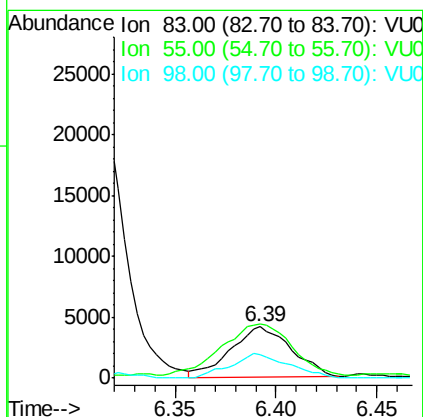
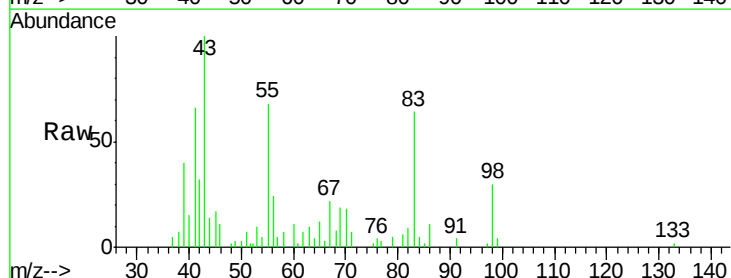
RT: 6.39 min Scan# 1649

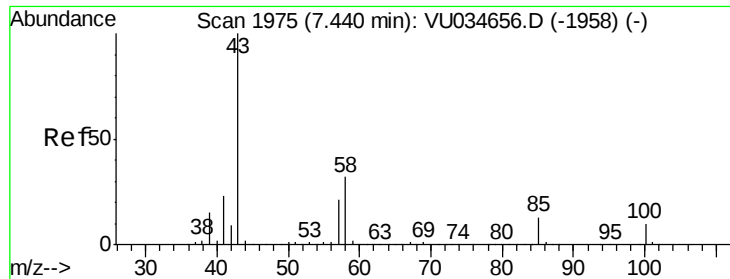
Delta R.T. 0.00 min

Lab File: VU034672.D

Acq: 20 Sep 2019 01:20

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





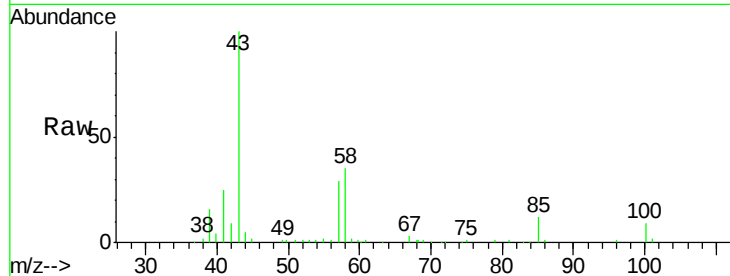
#40
4-Methyl-2-pentanone
Concen: 5.981 ug/L
RT: 7.44 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VU034672.D
Acq: 20 Sep 2019 01:20

Instrument :
MSVOA_U
ClientSampled :
BFDH4

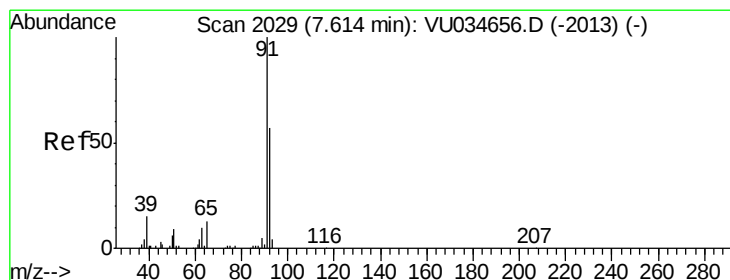
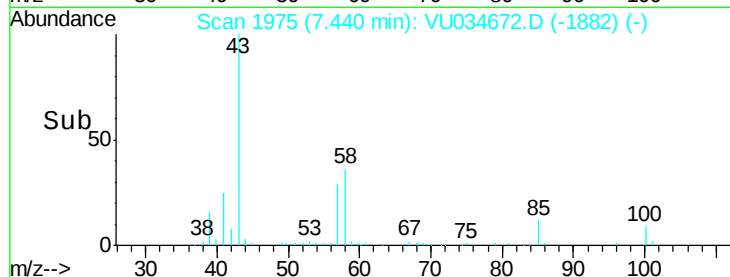
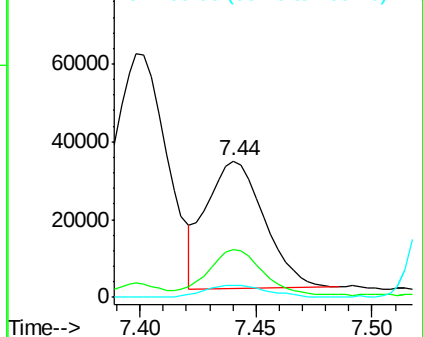
Tot Ion	Ratio	Lower	Upper
43	100		
58	37.7	25.2	37.8
100	10.5	7.7	11.5

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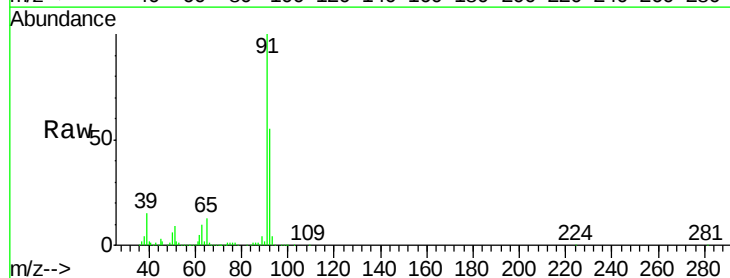


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

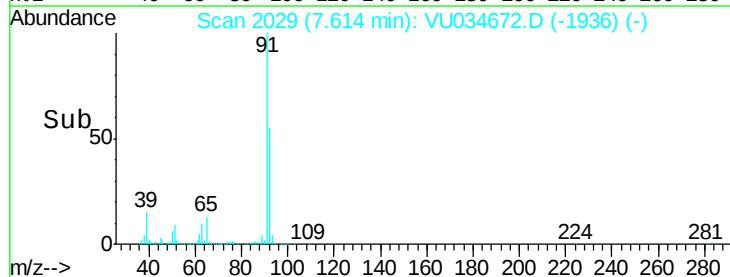
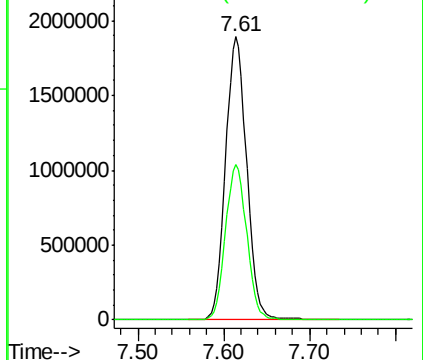


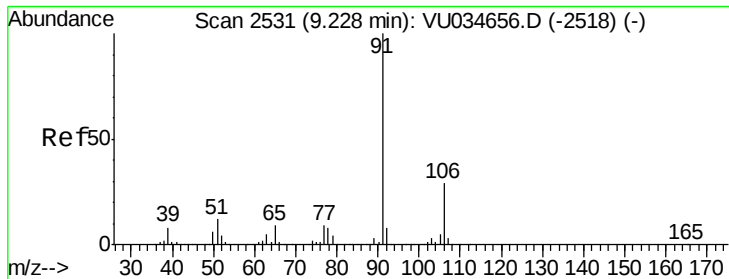
#42
Toluene
Concen: 179.793 ug/L
RT: 7.61 min Scan# 2029
Delta R.T. 0.00 min
Lab File: VU034672.D
Acq: 20 Sep 2019 01:20

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.1	38.2	71.0



Abundance Ion 91.00 (90.70 to 91.70): VU0
Ion 92.00 (91.70 to 92.70): VU0





#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

Instrument :

MSVOA_U

ClientSampled :

BFDH4

Tot Ion: 91 Resp: 680520

Ion Ratio Lower Upper

91 100

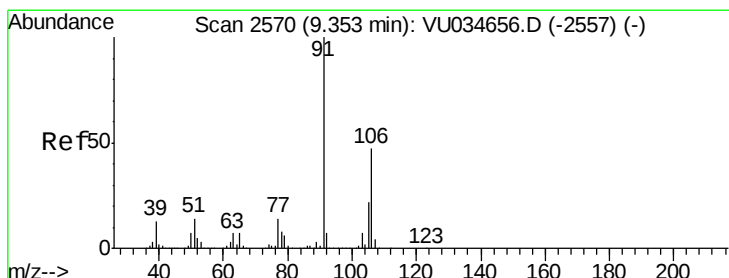
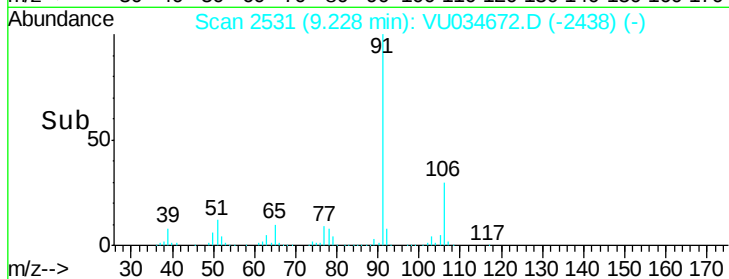
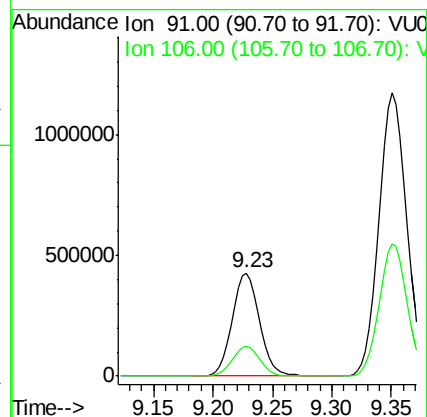
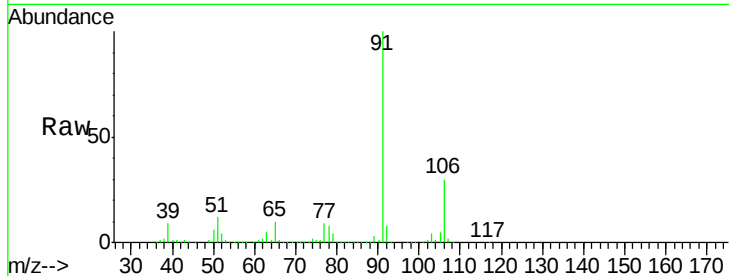
106 29.6 20.6 38.4

Manual Integrations

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9/20/2019 12:46:31 PM



#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

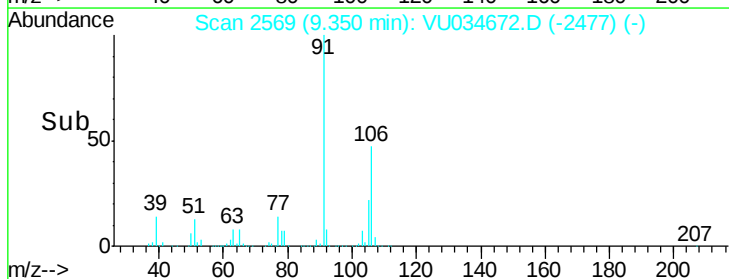
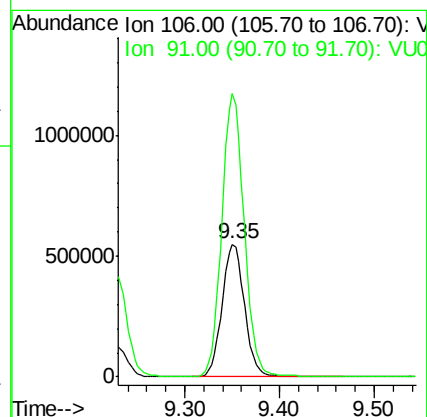
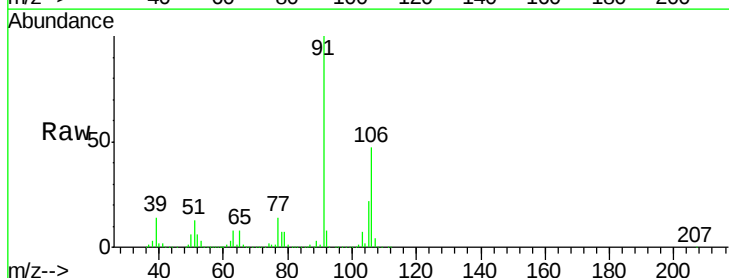
Acq: 20 Sep 2019 01:20

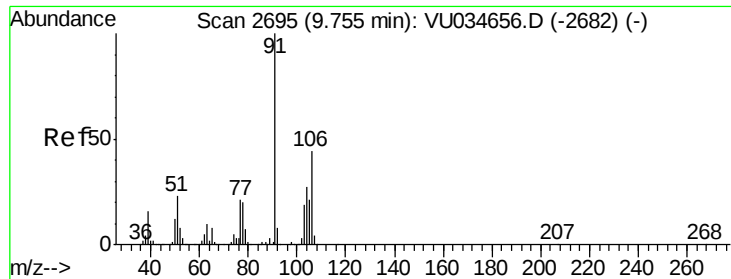
Tgt Ion: 106 Resp: 903439

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

Instrument :

MSVOA_U

ClientSampled :

BFDH4

Tot Ion:106 Resp: 539734

Ion Ratio Lower Upper

106 100

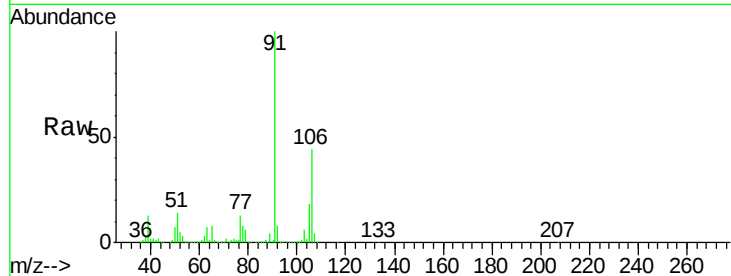
91 226.3 155.6 289.0

Manual Integrations

APPROVED

MMDadoda

9/20/2019 12:46:31 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

800000

600000

400000

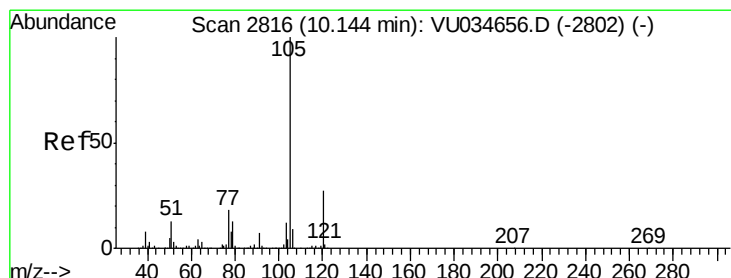
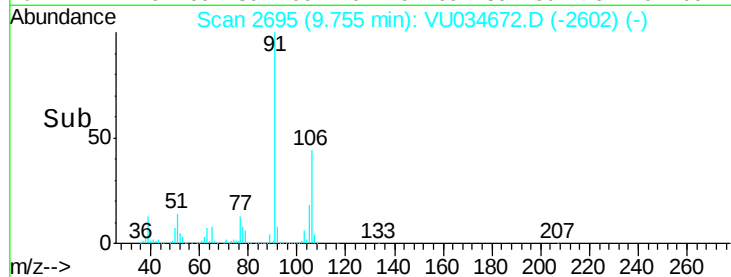
200000

0

9.76

9.70 9.80 9.90

Time-->



#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

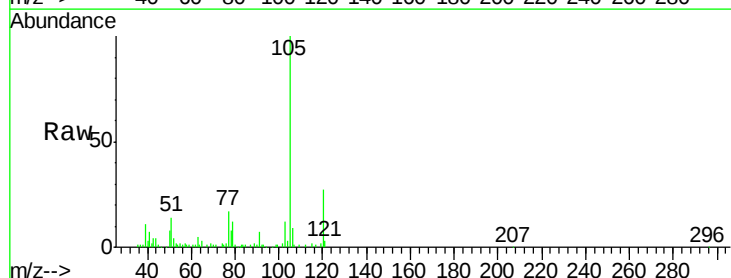
Tgt Ion:105 Resp: 48634

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): VU0

40000

30000

20000

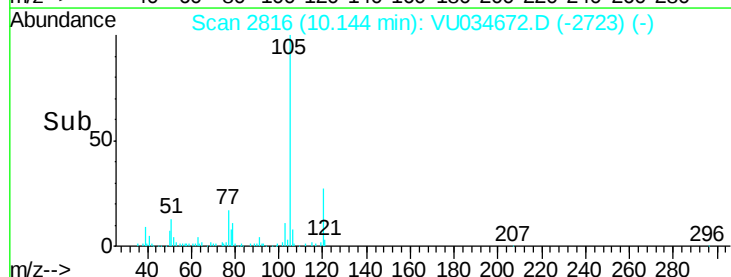
10000

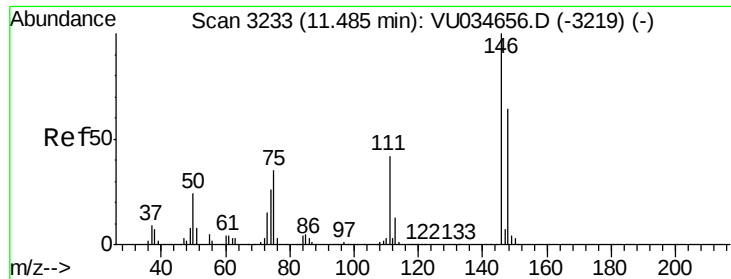
0

10.14

10.10 10.15 10.20

Time-->





#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

Instrument :

MSVOA_U

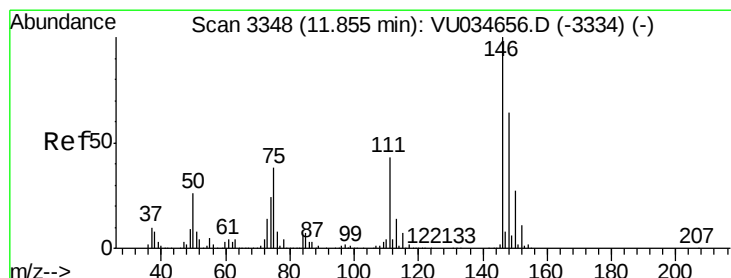
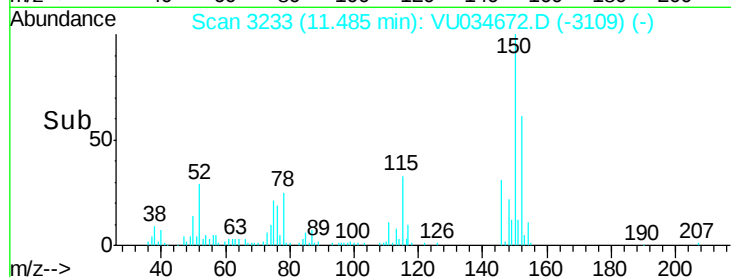
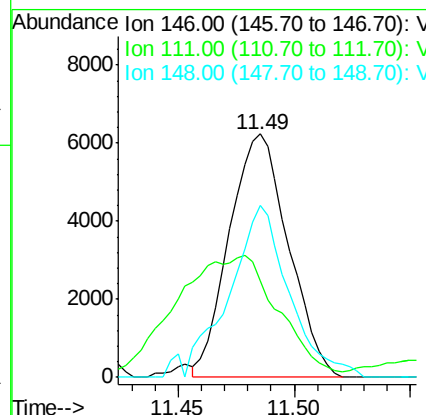
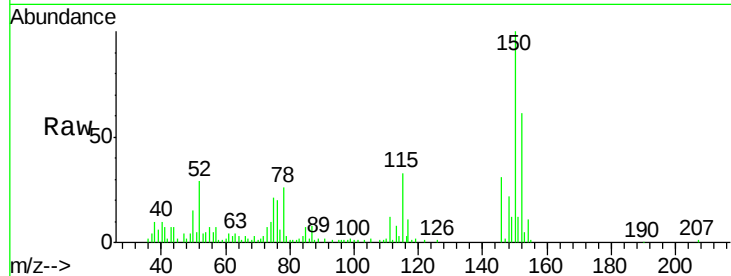
ClientSampled :

BFDH4

Tot Ion:	146	Resp:	11046
Ion Ratio	Lower	Upper	
146	100		
111	39.8	29.5	54.9
148	70.6	44.4	82.4

Manual Integrations
APPROVED

MMDadoda
9/20/2019 12:46:31 PM



#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

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

