

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092319\
 Data File : VU034761.D
 Acq On : 24 Sep 2019 02:24
 Operator : JC/SP
 Sample : K4932-18
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFDE9

Manual Integrations
 APPROVED

MMDadoda
 9/24/2019 12:48:52 PM

Quant Time: Sep 24 06:46:17 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	498190	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	481026	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	231177	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	199804	39.18	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	78.36%
7) Chloroethane-d5	1.67	69	171745	43.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.14%
11) 1,1-Dichloroethene-d2	2.26	63	282497m	32.71	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	65.42%
21) 2-Butanone-d5	4.15	46	464131	118.74	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	118.74%
24) Chloroform-d	4.62	84	363919	49.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.16%
26) 1,2-Dichloroethane-d4	5.28	65	267278	49.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.08%
32) Benzene-d6	5.32	84	738083	49.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.00%
36) 1,2-Dichloropropane-d6	6.31	67	267817	51.39	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.78%
41) Toluene-d8	7.54	98	706550	49.81	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.62%
43) trans-1,3-Dichloropropene-	7.83	79	115457	46.26	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.52%
47) 2-Hexanone-d5	8.29	63	300674	114.88	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	114.88%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	363231	50.23	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.46%
64) 1,2-Dichlorobenzene-d4	11.84	152	256613	52.94	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	105.88%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.40	62	6369m	1.134	ug/L	
13) Acetone	2.31	43	149685	32.920	ug/L	100
15) Methyl Acetate	2.61	43	6944	1.143	ug/L #	72
16) Methylene chloride	2.68	84	241141	58.404	ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	11356	2.725	ug/L	99
22) 2-Butanone	4.25	43	49654	9.179	ug/L	99
29) Cyclohexane	4.97	56	32113	4.045	ug/L	99
33) Benzene	5.37	78	140385	8.415	ug/L	100
35) Methylcyclohexane	6.39	83	28028	4.009	ug/L	98
42) Toluene	7.61	91	269312	14.937	ug/L	96
52) Ethylbenzene	9.23	91	361468	17.803	ug/L	99
53) m,p-Xylene	9.35	106	217512	30.247	ug/L	97
54) o-xylene	9.76	106	209898	29.510	ug/L	99
56) Isopropylbenzene	10.14	105	55882	2.914	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	58074	7.179	ug/L	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

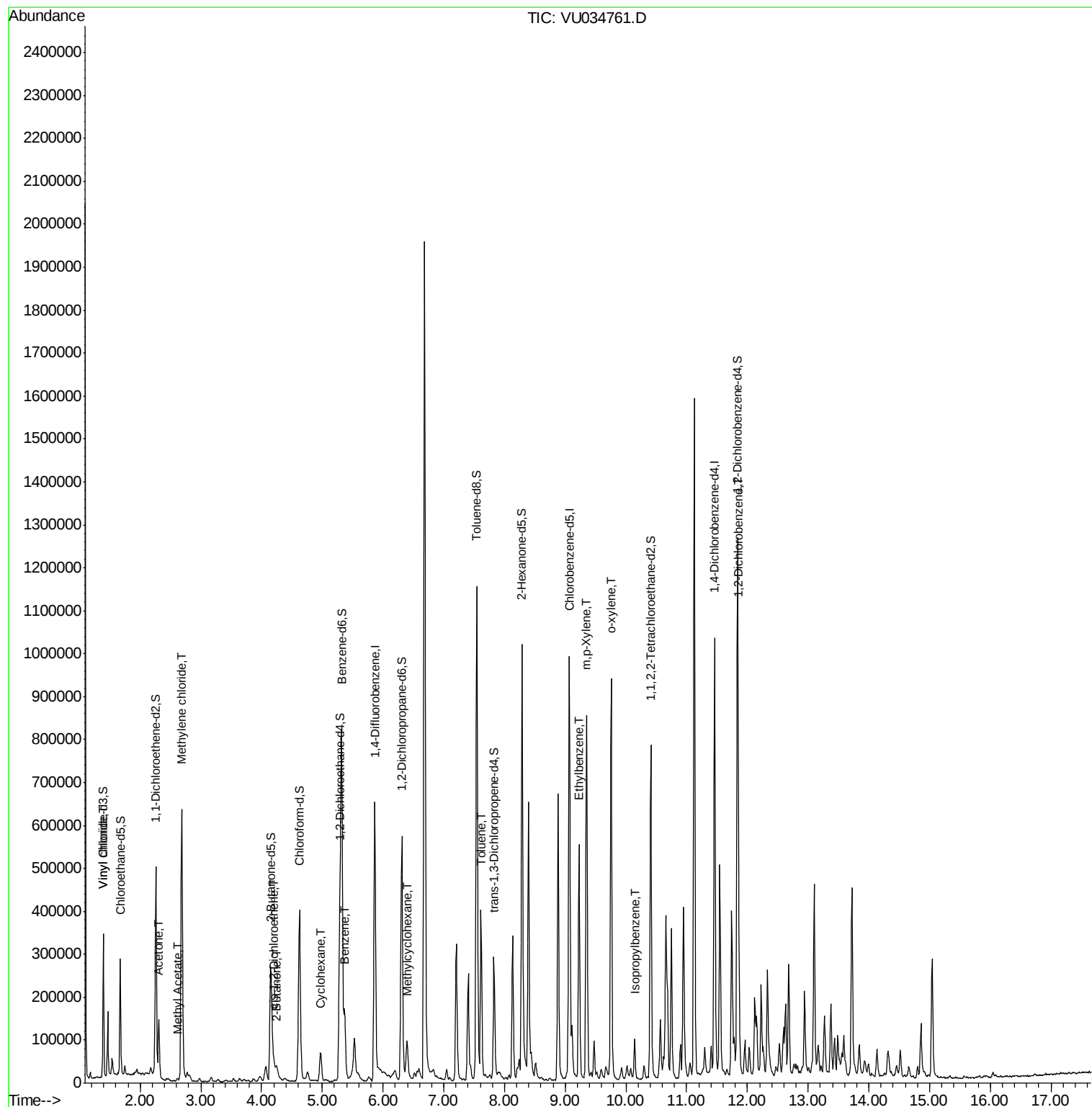
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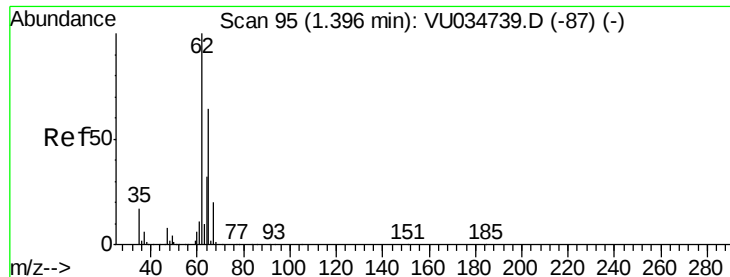
Instrument :
MSVOA_U
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Manual Integrations
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Quant Title : VOC Analysis
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#5

Vinyl chloride

Concen: 1.134 ug/L m

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU034761.D

Acq: 24 Sep 2019 02:24

Instrument :

MSVOA_U

ClientSampleId :

BFDE9

Tot Ion: 62 Resp: 6369

Ion Ratio Lower Upper

62 100

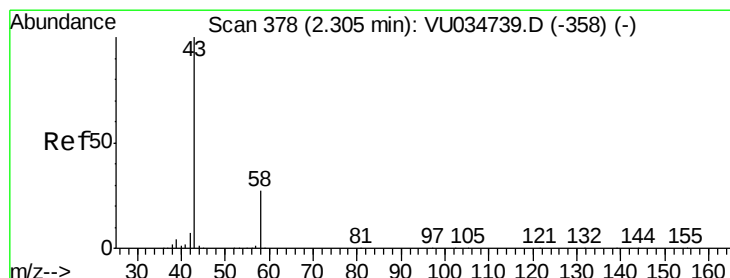
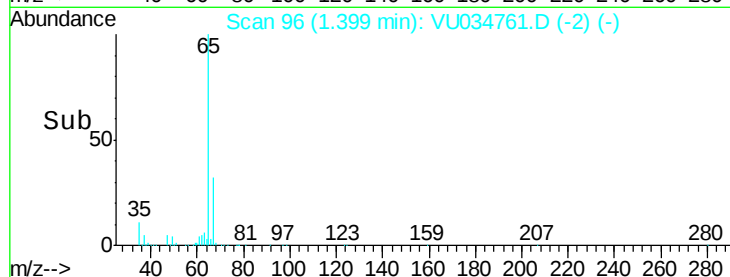
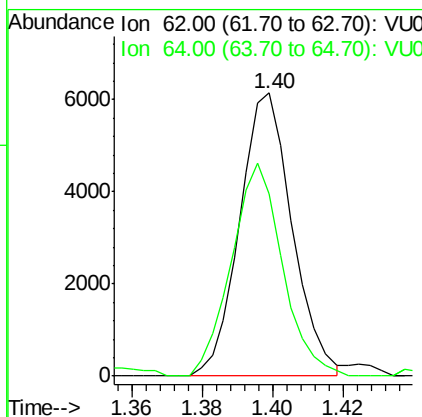
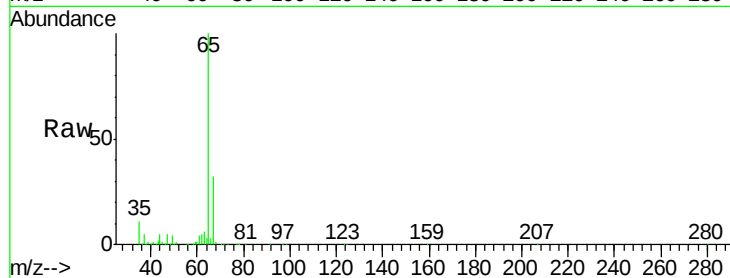
64 64.5 22.2 41.2#

Manual Integrations

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#13

Acetone

Concen: 32.920 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VU034761.D

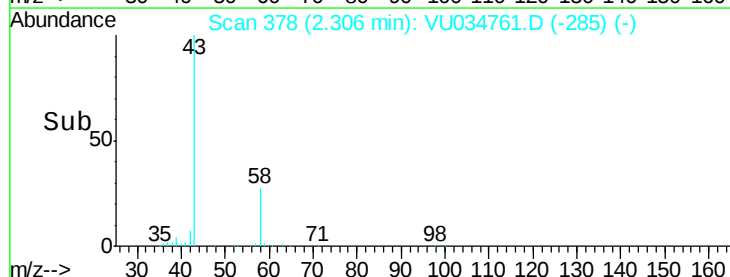
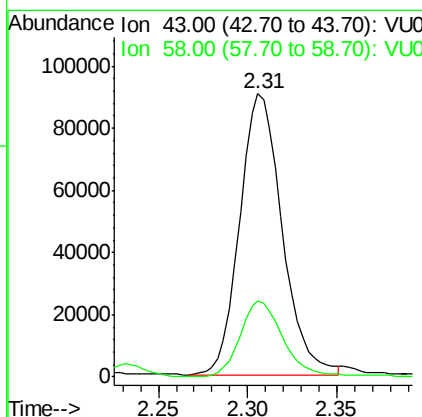
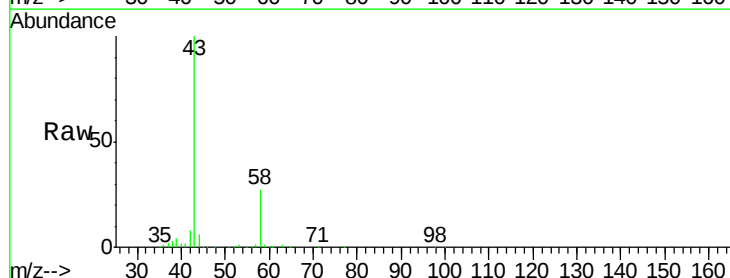
Acq: 24 Sep 2019 02:24

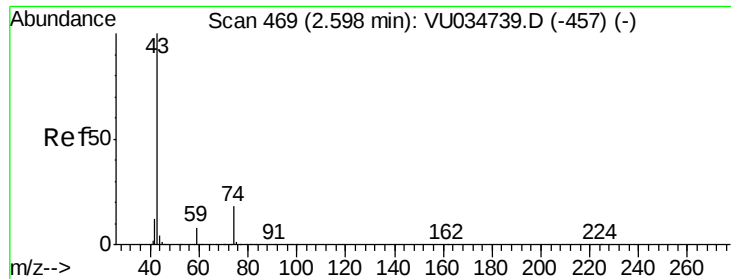
Tgt Ion: 43 Resp: 149685

Ion Ratio Lower Upper

43 100

58 26.9 0.0 53.4





#15

Methyl Acetate

Concen: 1.143 ug/L

RT: 2.61 min Scan# 474

Delta R.T. 0.02 min

Lab File: VU034761.D

Acq: 24 Sep 2019 02:24

Instrument :

MSVOA_U

ClientSampleId :

BFDE9

Tot Ion: 43 Resp: 6944

Ion Ratio Lower Upper

43 100

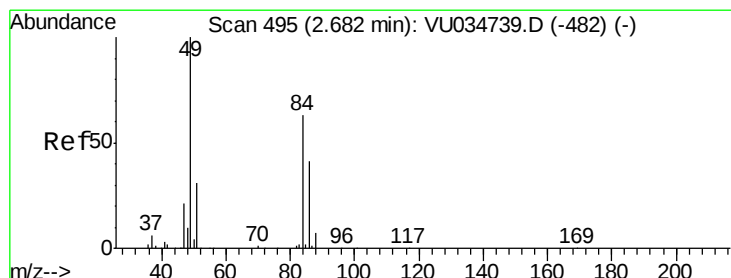
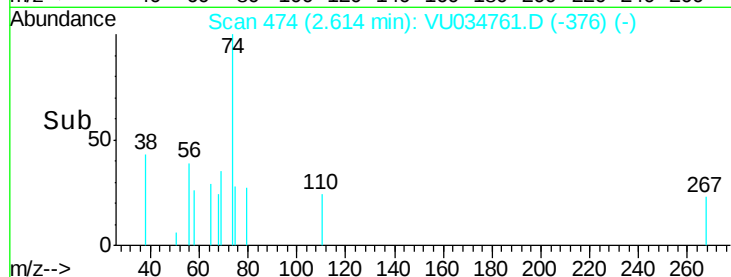
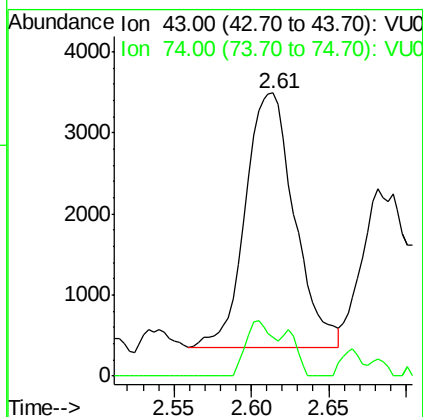
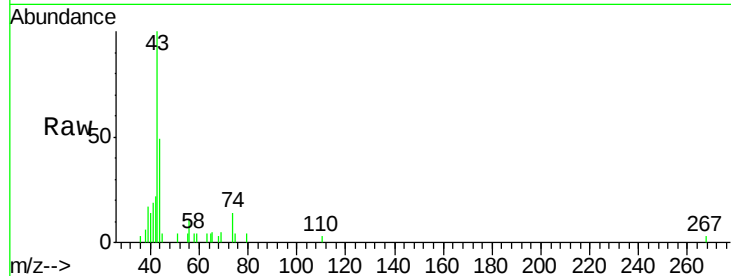
74 5.4 14.4 21.6#

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#16

Methylene chloride

Concen: 58.404 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU034761.D

Acq: 24 Sep 2019 02:24

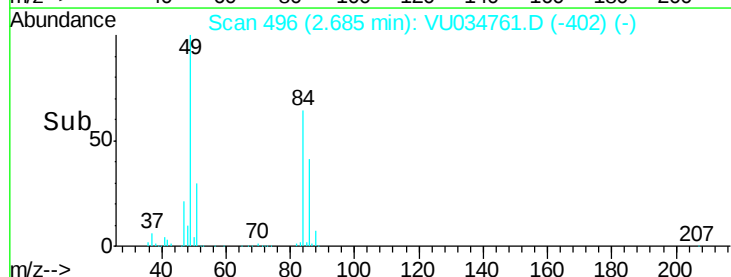
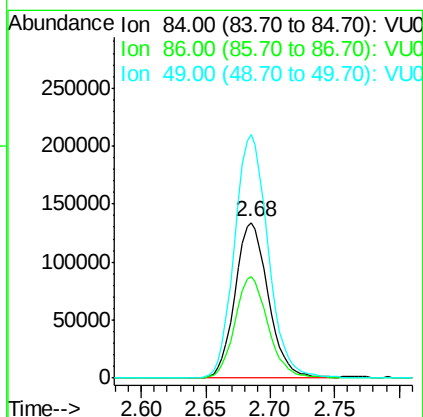
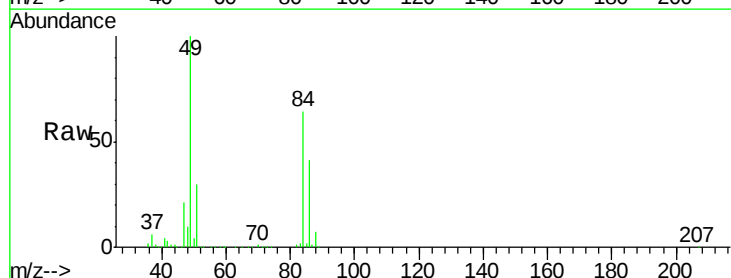
Tgt Ion: 84 Resp: 241141

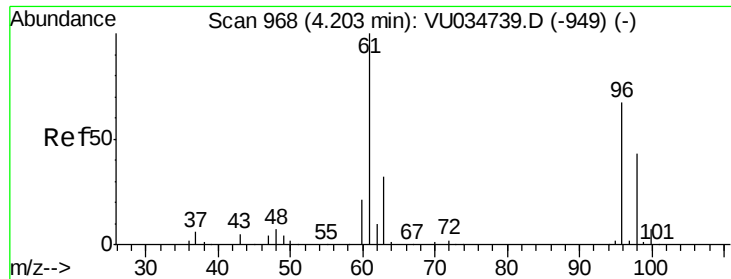
Ion Ratio Lower Upper

84 100

86 64.9 43.0 80.0

49 156.7 109.7 203.7





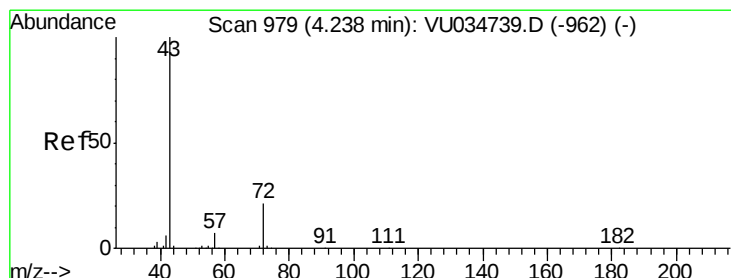
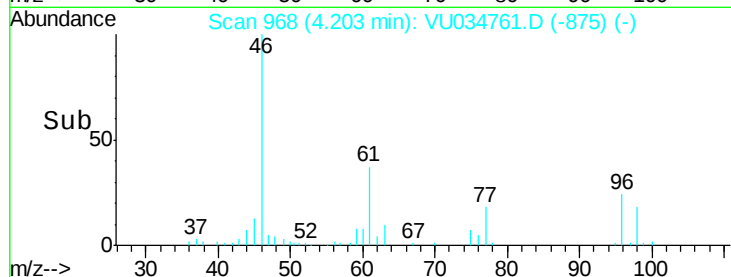
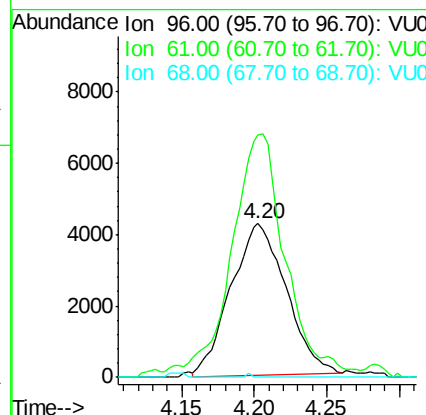
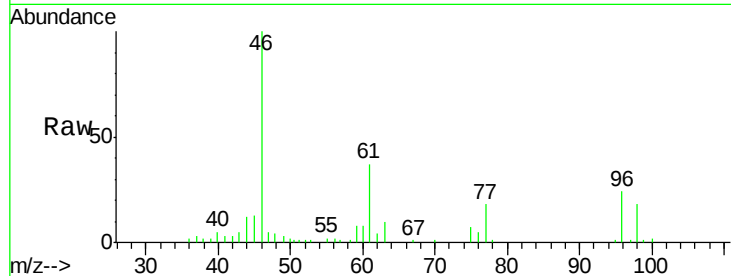
#20
 cis-1,2-Dichloroethene
 Concen: 2.725 ug/L
 RT: 4.20 min Scan# 968
 Delta R.T. 0.00 min
 Lab File: VU034761.D
 Acq: 24 Sep 2019 02:24

Instrument :
 MSVOA_U
 ClientSampleId :
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Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100				
61	157.4		108.8	202.2	
68	0.0		0.0	0.0	

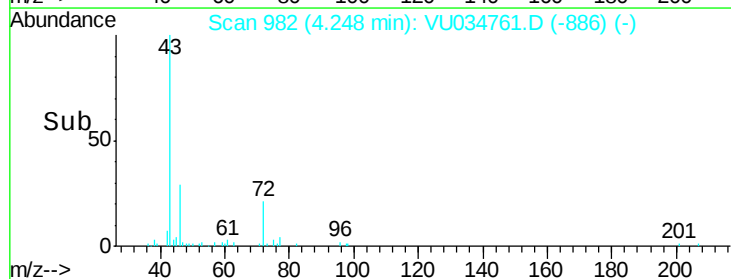
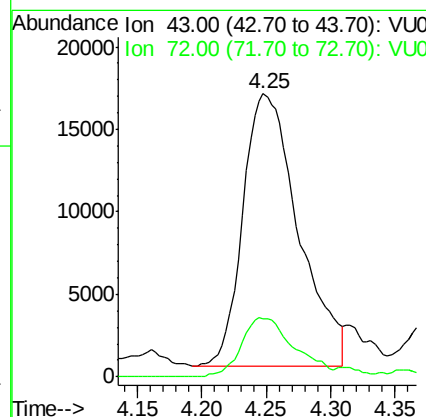
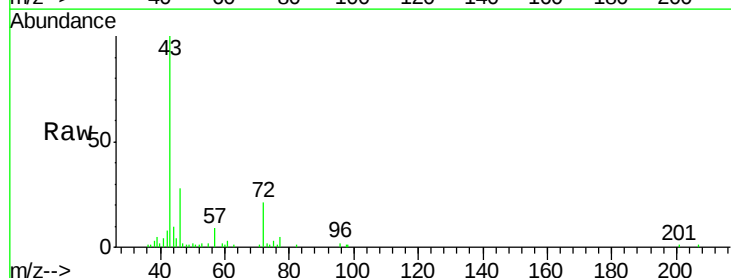
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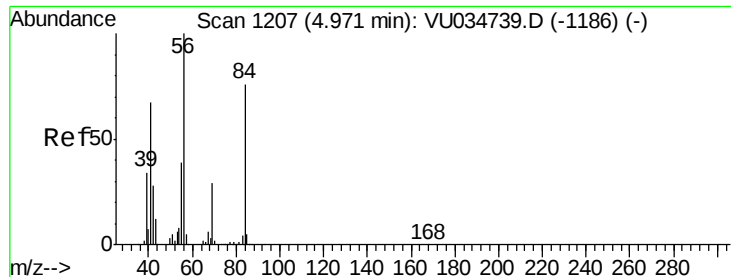
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#22
 2-Butanone
 Concen: 9.179 ug/L
 RT: 4.25 min Scan# 982
 Delta R.T. 0.01 min
 Lab File: VU034761.D
 Acq: 24 Sep 2019 02:24

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
72	20.7		10.2	30.6	





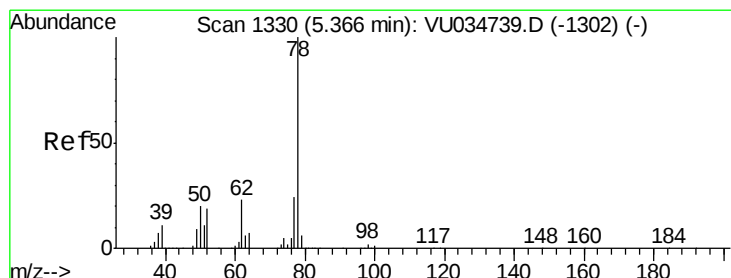
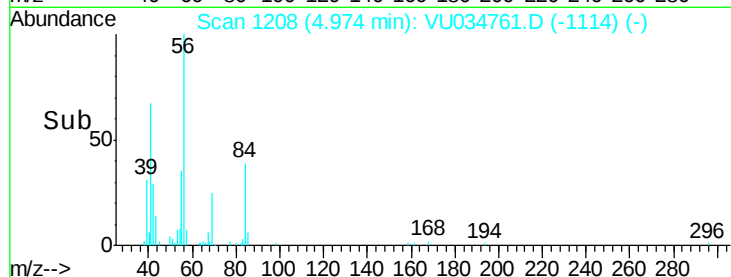
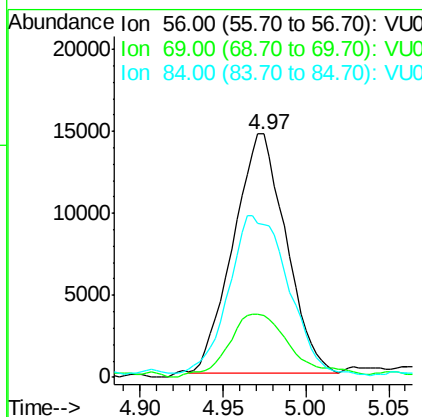
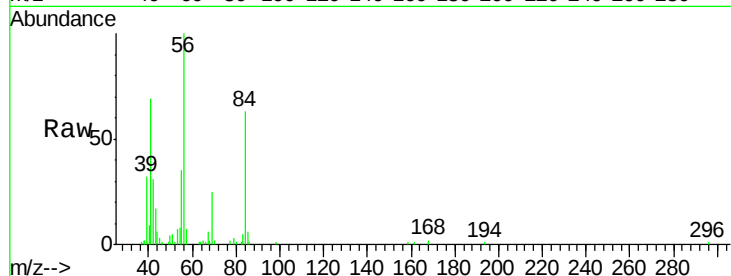
#29
Cyclohexane
Concen: 4.045 ug/L
RT: 4.97 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VU034761.D
Acq: 24 Sep 2019 02:24

Instrument :
MSVOA_U
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Tot Ion	Ion	Ratio	Lower	Upper
56	100			
69	29.8	21.7	32.5	
84	73.4	58.8	88.2	

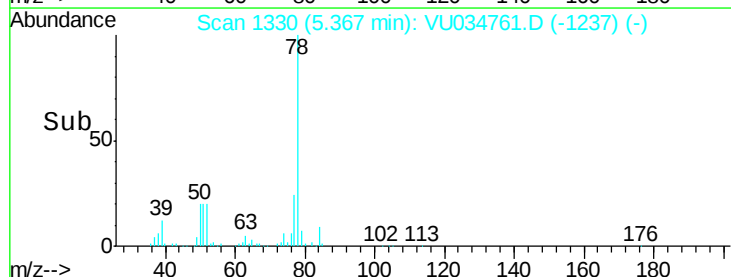
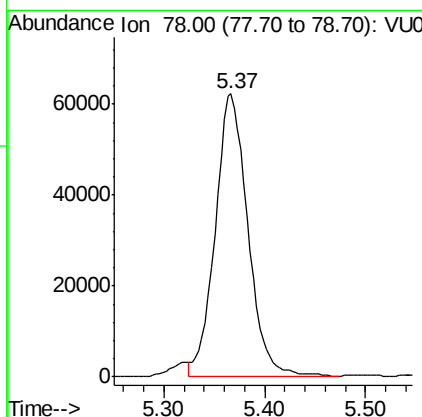
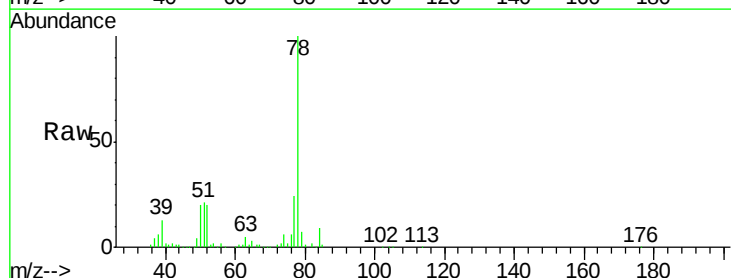
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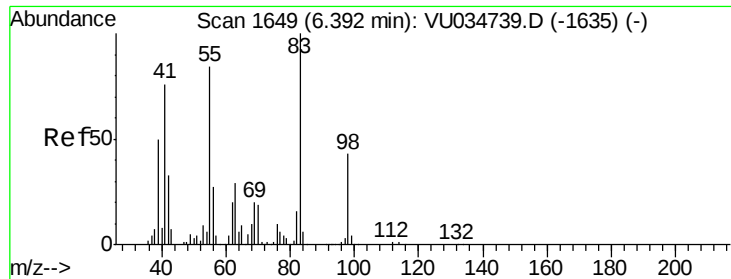
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#33
Benzene
Concen: 8.415 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU034761.D
Acq: 24 Sep 2019 02:24

Tgt Ion: 78 Resp: 140385





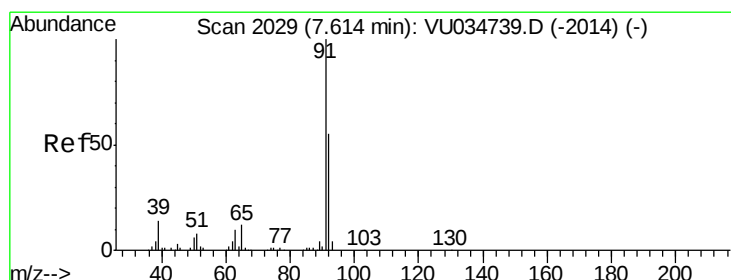
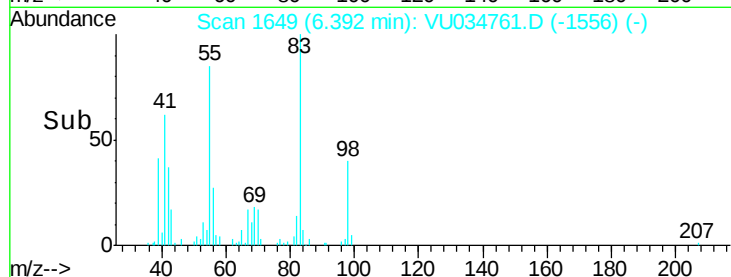
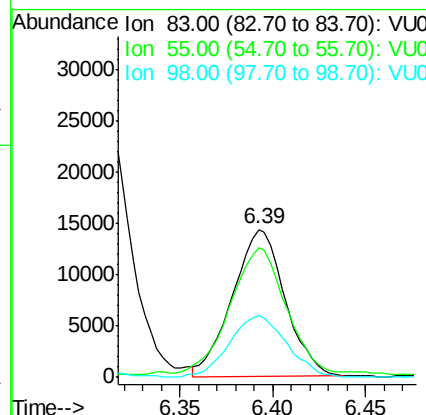
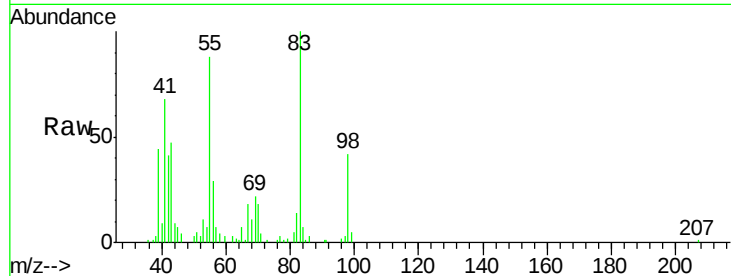
#35
Methvlcvclohexane
Concen: 4.009 ug/L
RT: 6.39 min Scan# 1649
Delta R.T. 0.00 min
Lab File: VU034761.D
Acq: 24 Sep 2019 02:24

Instrument :
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Tot Ion	83	Resp	28028
Ion Ratio	100	Lower	Upper
83	100		
55	90.9	71.6	107.4
98	46.2	35.7	53.5

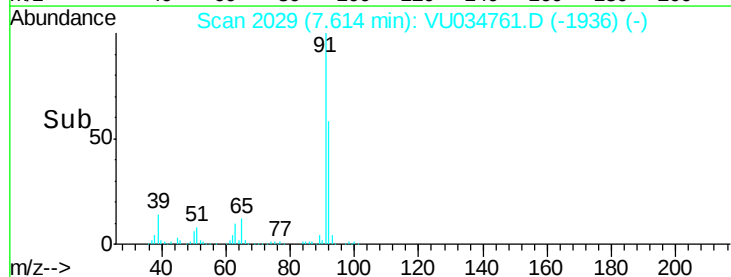
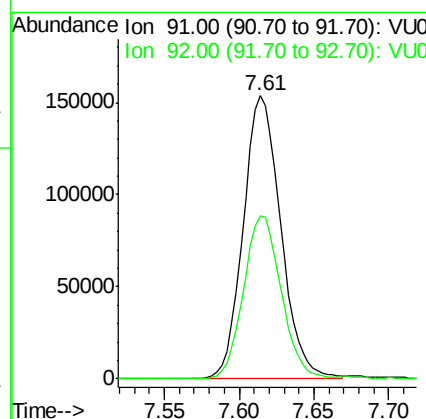
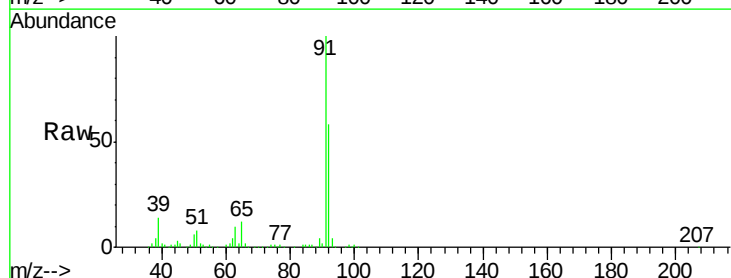
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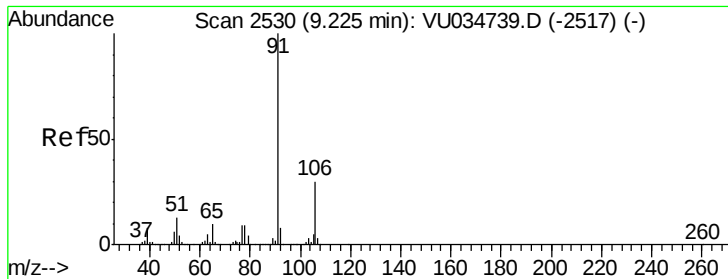
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#42
Toluene
Concen: 14.937 ug/L
RT: 7.61 min Scan# 2029
Delta R.T. 0.00 min
Lab File: VU034761.D
Acq: 24 Sep 2019 02:24

Tgt Ion	91	Resp	269312
Ion Ratio	100	Lower	Upper
91	100		
92	57.8	38.2	71.0





#52

Ethylbenzene

Concen: 17.803 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034761.D

Acq: 24 Sep 2019 02:24

Instrument :

MSVOA_U

ClientSampled :

BFDE9

Tot Ion: 91 Resp: 361468

Ion Ratio Lower Upper

91 100

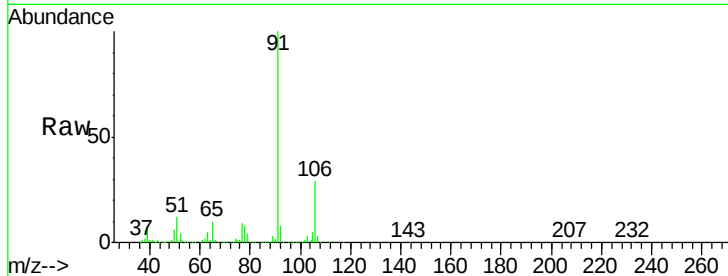
106 28.8 20.6 38.4

Manual Integrations

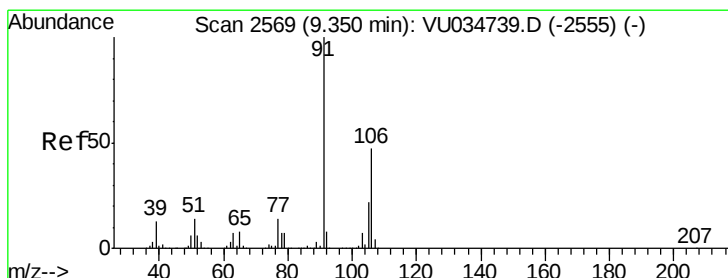
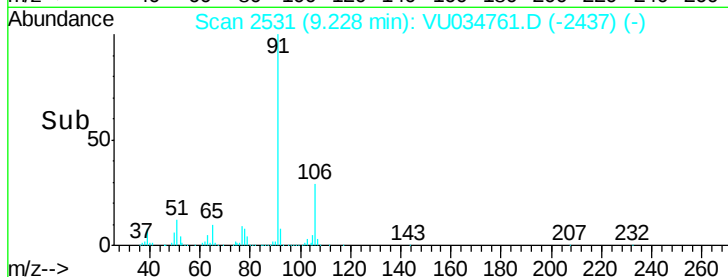
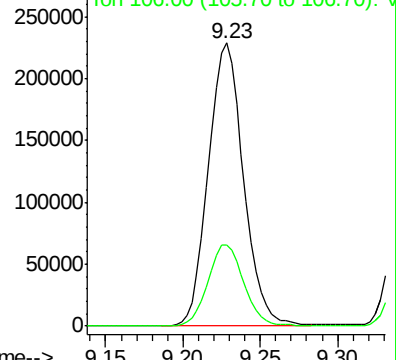
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9/24/2019 12:48:52 PM



Abundance Ion 91.00 (90.70 to 91.70): VU034739.D (-2517) (-)



#53

m,p-Xylene

Concen: 30.247 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU034761.D

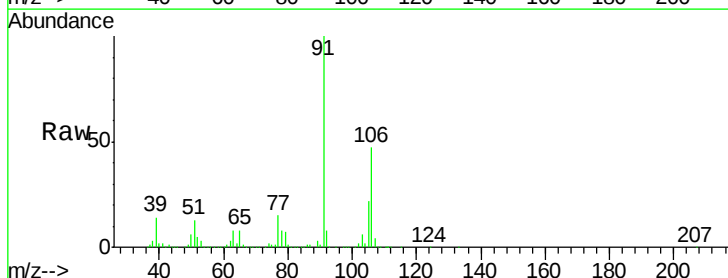
Acq: 24 Sep 2019 02:24

Tgt Ion: 106 Resp: 217512

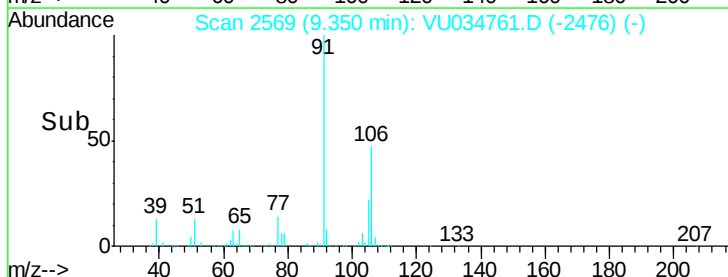
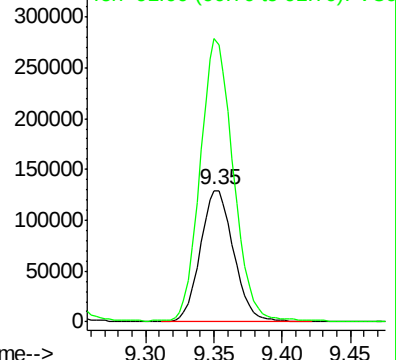
Ion Ratio Lower Upper

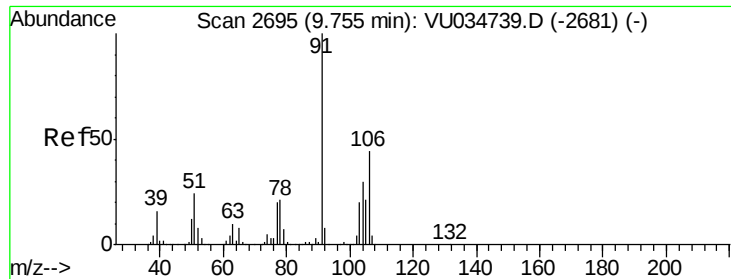
106 100

91 214.9 146.9 272.7



Abundance Ion 106.00 (105.70 to 106.70): VU034739.D (-2555) (-)





#54

o-xylene

Concen: 29.510 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU034761.D

Acq: 24 Sep 2019 02:24

Instrument :

MSVOA_U

ClientSampleId :

BFDE9

Tot Ion:106 Resp: 209898

Ion Ratio Lower Upper

106 100

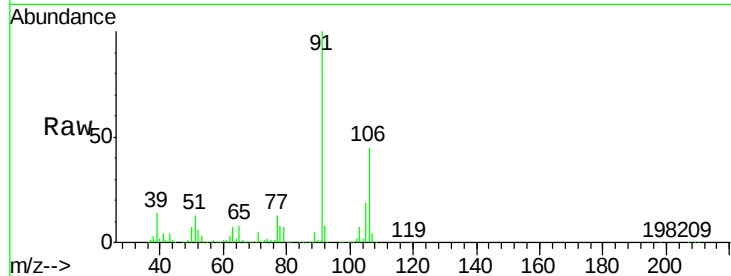
91 224.3 155.6 289.0

Manual Integrations

APPROVED

MMDadoda

9/24/2019 12:48:52 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

300000

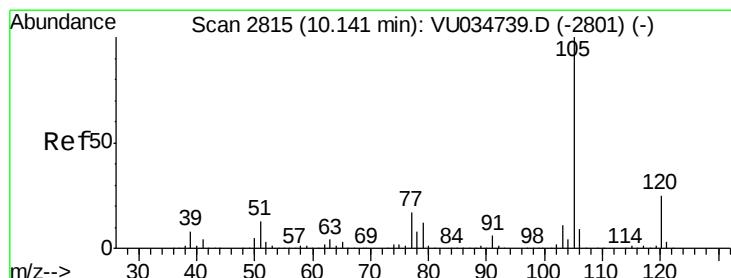
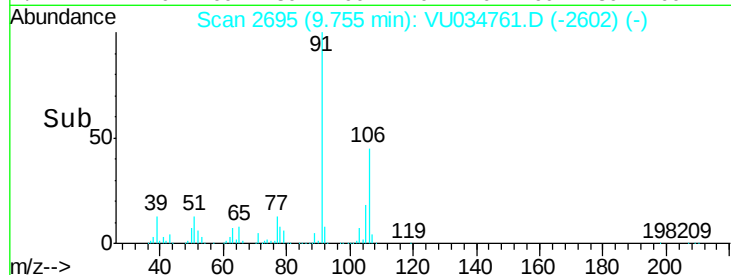
200000

100000

0

9.70 9.75 9.80 9.85

Time-->



#56

Isopropylbenzene

Concen: 2.914 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034761.D

Acq: 24 Sep 2019 02:24

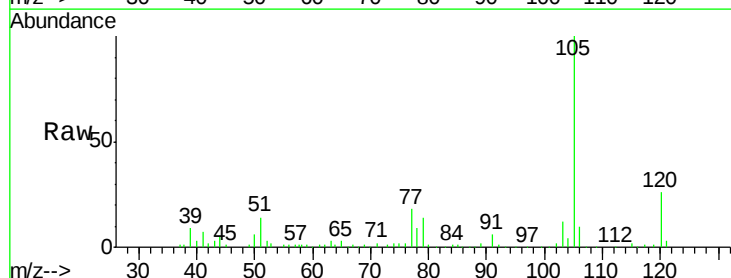
Tgt Ion:105 Resp: 55882

Ion Ratio Lower Upper

105 100

120 26.1 20.4 30.6

77 17.3 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): VU0

40000

30000

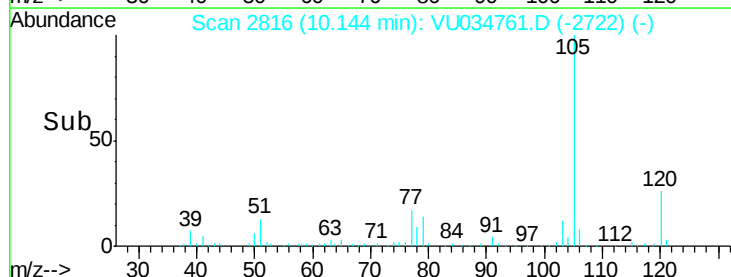
20000

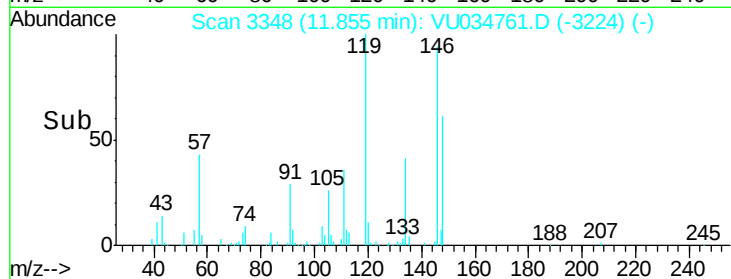
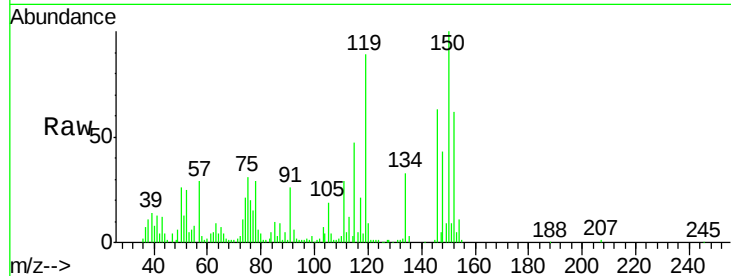
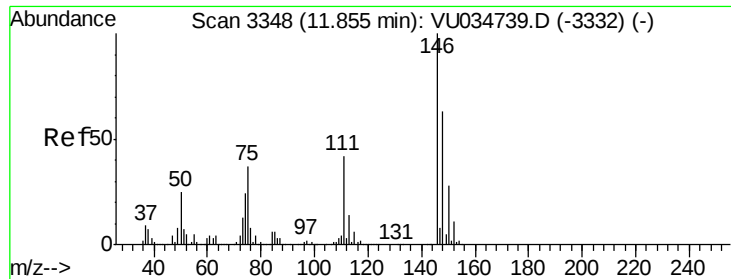
10000

0

10.10 10.14 10.20

Time-->





#65
 1,2-Dichlorobenzene
 Concen: 7.179 ug/L
 RT: 11.86 min Scan# 3348
 Delta R.T. 0.00 min
 Lab File: VU034761.D
 Acq: 24 Sep 2019 02:24

Instrument :
 MSVOA_U
 ClientSampleId :
 BFDE9

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.6	35.2	52.8
148	67.8	53.0	79.6

Manual Integrations
 APPROVED

MMDadoda
 9/24/2019 12:48:52 PM

