

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092319\
 Data File : VU034748.D
 Acq On : 23 Sep 2019 21:19
 Operator : JC/SP
 Sample : K4932-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFDG6

Manual Integrations
 APPROVED

MMDadoda
 9/24/2019 12:48:15 PM

Quant Time: Sep 25 05:35:49 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	480097	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	455604	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	227128	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	204330	41.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	83.14%
7) Chloroethane-d5	1.67	69	165458	43.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.12%
11) 1,1-Dichloroethene-d2	2.26	63	282745	33.97	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.94%
21) 2-Butanone-d5	4.19	46	6306m	1.67	ug/L	0.04
Spiked Amount	100.000	Range	40 - 130	Recovery	=	1.67%#
24) Chloroform-d	4.65	84	15348	2.15	ug/L	0.03
Spiked Amount	50.000	Range	70 - 125	Recovery	=	4.30%#
26) 1,2-Dichloroethane-d4	5.29	65	259803	49.46	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.92%
32) Benzene-d6	5.32	84	718402	50.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.74%
36) 1,2-Dichloropropane-d6	6.31	67	255026	51.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.34%
41) Toluene-d8	7.54	98	693660	51.63	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.26%
43) trans-1,3-Dichloropropene-	7.83	79	113023	47.81	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.62%
47) 2-Hexanone-d5	8.30	63	1623m	0.65	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	0.65%#
57) 1,1,2,2-Tetrachloroethane-	10.41	84	2356m	0.34	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	0.68%#
64) 1,2-Dichlorobenzene-d4	11.84	152	247071	51.88	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.76%

Target Compounds

					Ovalue
13) Acetone	2.31	43	858708	195.971	ug/L 100
16) Methylene chloride	2.68	84	82903	20.836	ug/L 96
22) 2-Butanone	4.23	43	468432	89.859	ug/L 91
25) Chloroform	4.65	83	333461	42.983	ug/L 99
29) Cyclohexane	4.97	56	28113	3.738	ug/L 98
33) Benzene	5.37	78	448571	28.388	ug/L 100
34) Trichloroethene	6.16	95	224206	57.453	ug/L 97
35) Methylcyclohexane	6.40	83	24015	3.626	ug/L 97
40) 4-Methyl-2-pentanone	7.44	43	2586291	287.916	ug/L 98
42) Toluene	7.61	91	4096221	239.867	ug/L 98
46) Tetrachloroethene	8.21	164	17204	6.267	ug/L 96
48) 2-Hexanone	8.34	43	481595	68.645	ug/L # 93
52) Ethylbenzene	9.23	91	946522	49.221	ug/L 100
53) m,p-Xylene	9.35	106	1295370	190.181	ug/L 98
54) o-xylene	9.76	106	784464	116.443	ug/L 98
56) Isopropylbenzene	10.14	105	77931	4.290	ug/L 97
63) 1,4-Dichlorobenzene	11.49	146	7064	0.882	ug/L 90

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Instrument :
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Quant Time: Sep 25 05:35:49 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)
65) 1,2-Dichlorobenzene	11.85	146	61063	7.683	ug/L	96

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

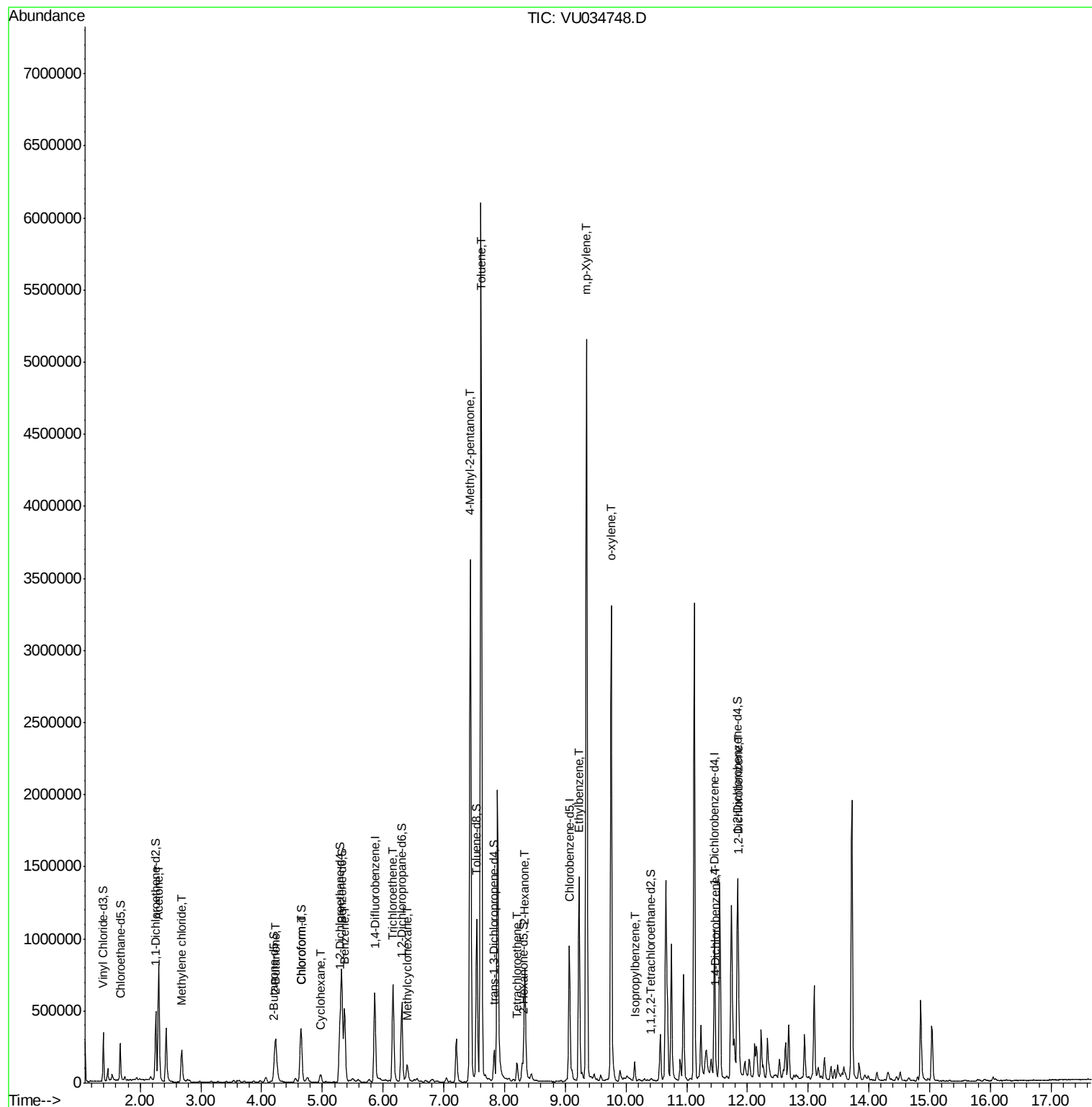
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Data File : VU034748.D
Acq On : 23 Sep 2019 21:19
Operator : JC/SP
Sample : K4932-04
Misc : 5.0mL/MSVOA U/WATER
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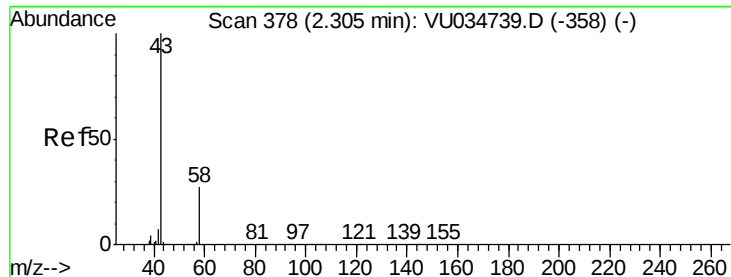
Instrument :
MSVOA_U
ClientSampleId :
BFDG6

Manual Integrations
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Quant Time: Sep 25 05:35:49 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
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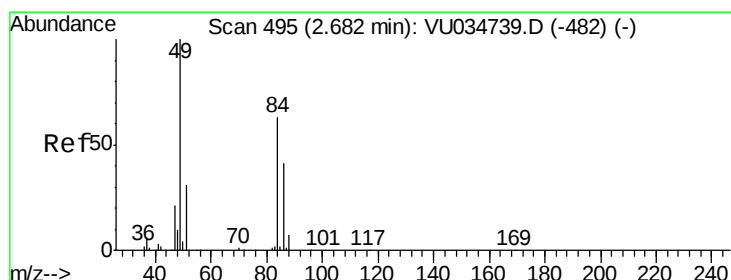
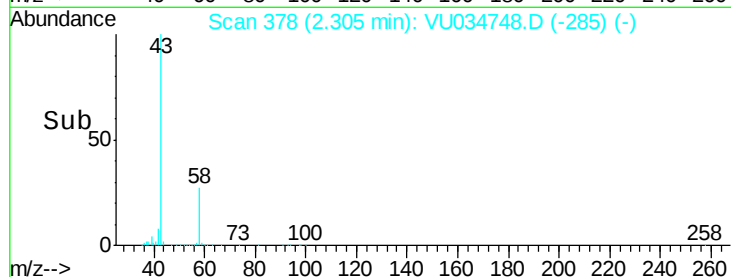
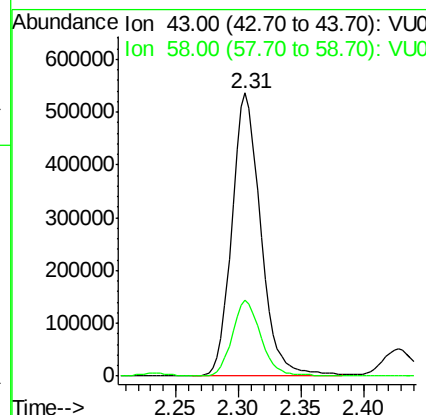
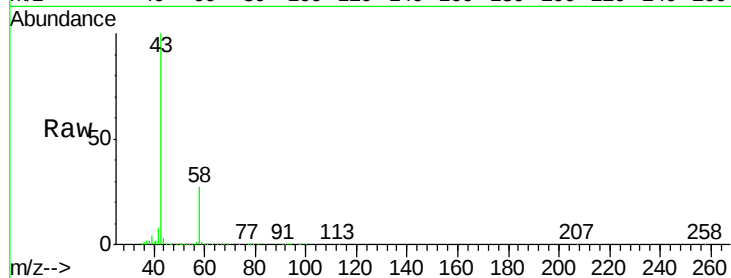
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Acetone
Concen: 195.971 ug/L
RT: 2.31 min Scan# 378
Delta R.T. -0.00 min
Lab File: VU034748.D
Acq: 23 Sep 2019 21:19

Instrument :
MSVOA_U
ClientSampleId :
BFDG6

Tot Ion	43	58	Ratio	Lower	Upper	Resp
858708	100	26.7		0.0	53.4	

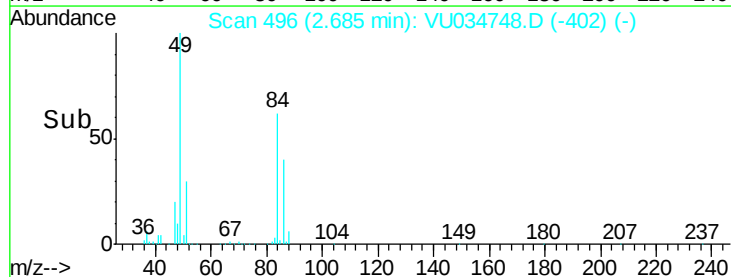
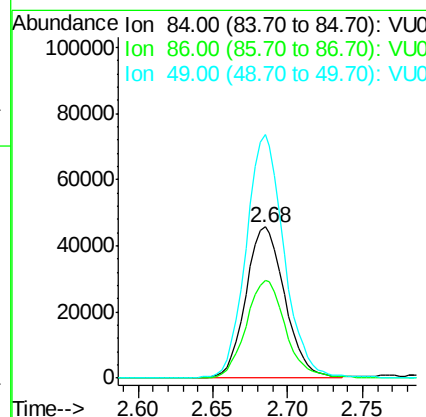
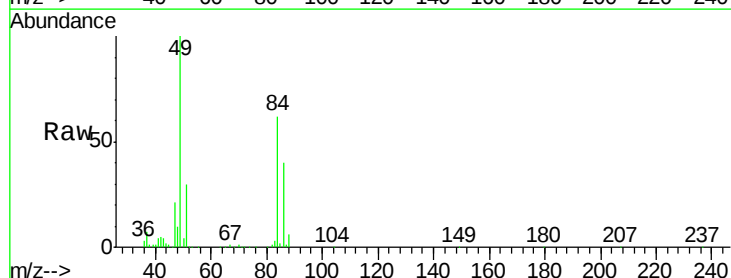
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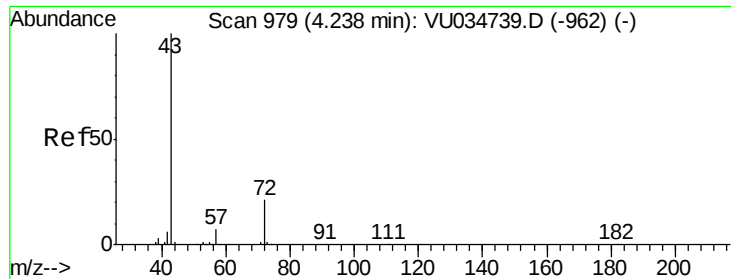
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#16
Methylene chloride
Concen: 20.836 ug/L
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU034748.D
Acq: 23 Sep 2019 21:19

Tgt Ion	84	86	49	Ratio	Lower	Upper	Resp
82903	100	64.5	161.4		43.0	80.0	





#22

2-Butanone

Concen: 89.859 ug/L

RT: 4.23 min Scan# 978

Delta R.T. -0.00 min

Lab File: VU034748.D

Acq: 23 Sep 2019 21:19

Instrument :

MSVOA_U

ClientSampleId :

BFDG6

Tot Ion: 43 Resp: 468432

Ion Ratio Lower Upper

43 100

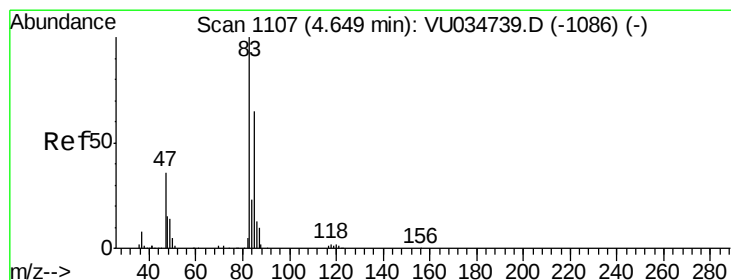
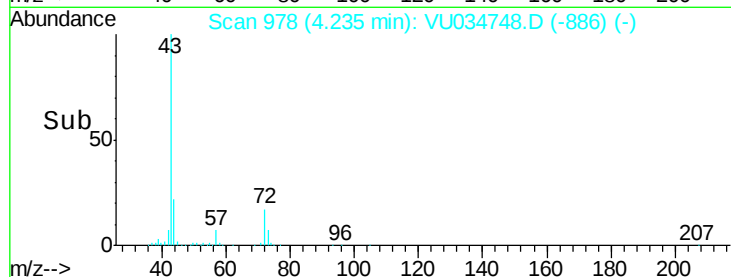
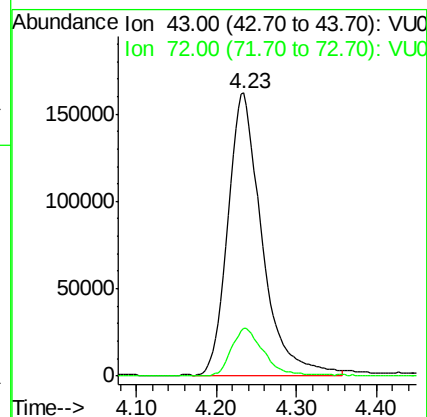
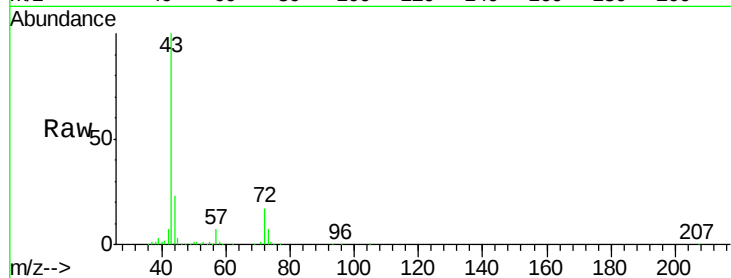
72 16.1 10.2 30.6

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#25

Chloroform

Concen: 42.983 ug/L

RT: 4.65 min Scan# 1107

Delta R.T. -0.00 min

Lab File: VU034748.D

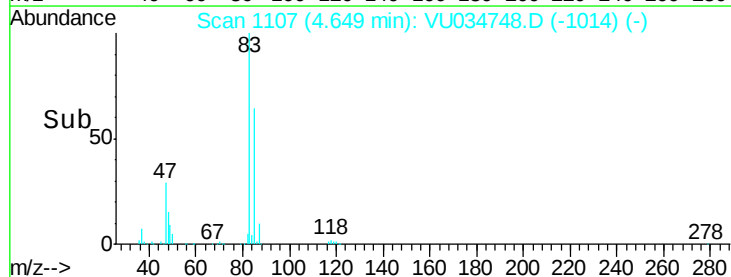
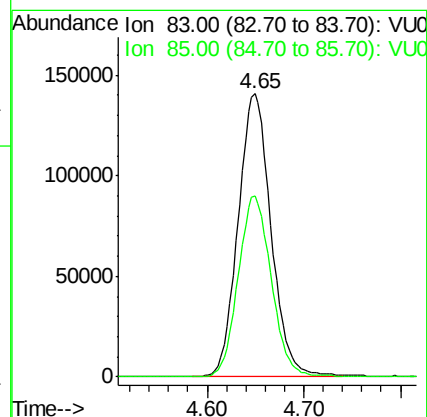
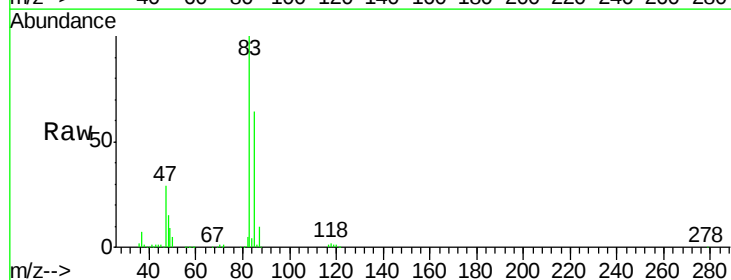
Acq: 23 Sep 2019 21:19

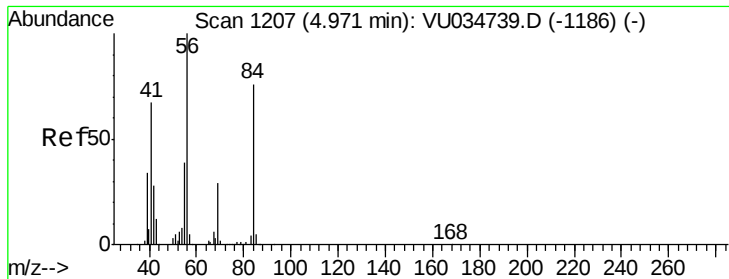
Tgt Ion: 83 Resp: 333461

Ion Ratio Lower Upper

83 100

85 63.8 44.0 81.6





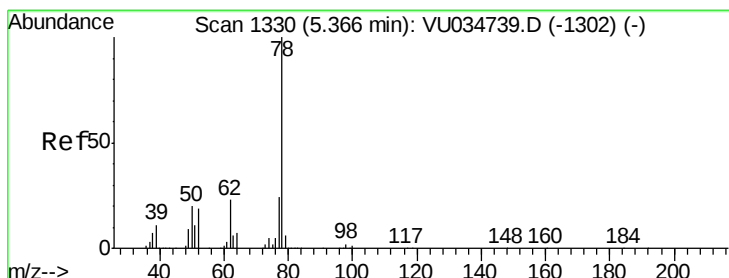
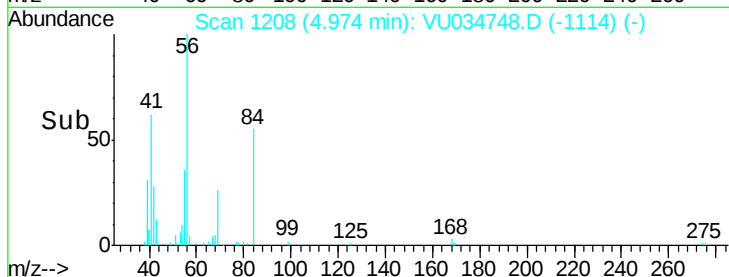
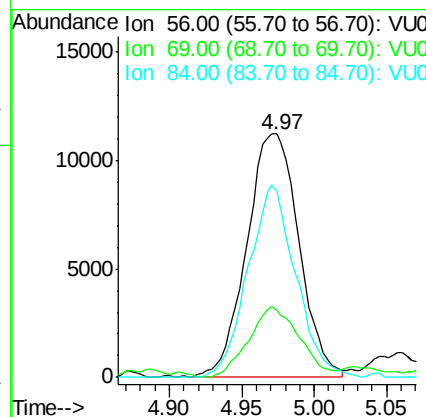
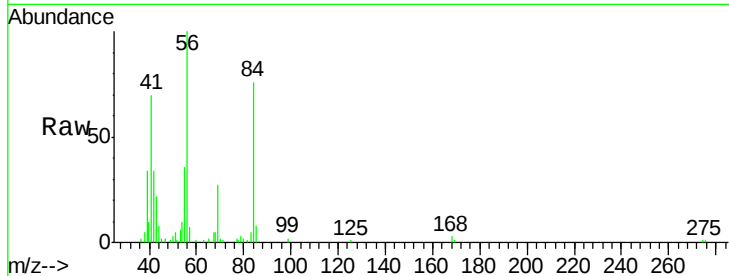
#29
Cyclohexane
Concen: 3.738 ug/L
RT: 4.97 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VU034748.D
Acq: 23 Sep 2019 21:19

Instrument :
MSVOA_U
ClientSampleId :
BFDG6

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
69	28.1	21.7	32.5	
84	72.1	58.8	88.2	

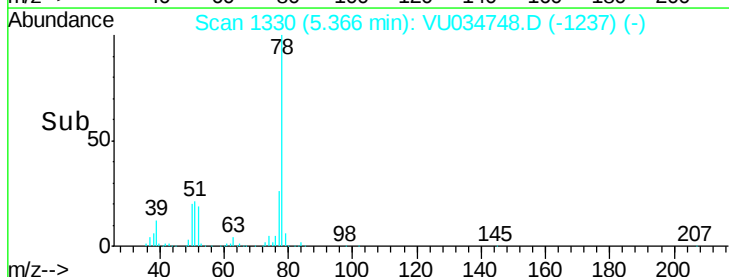
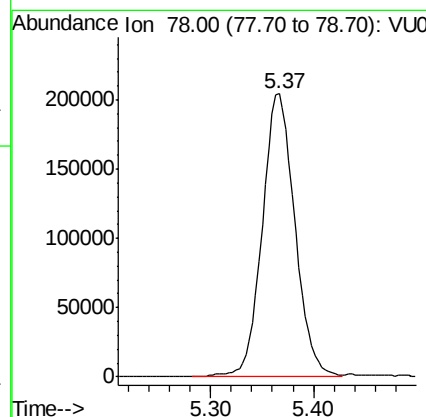
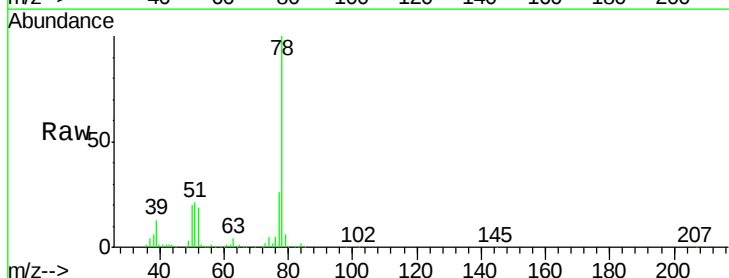
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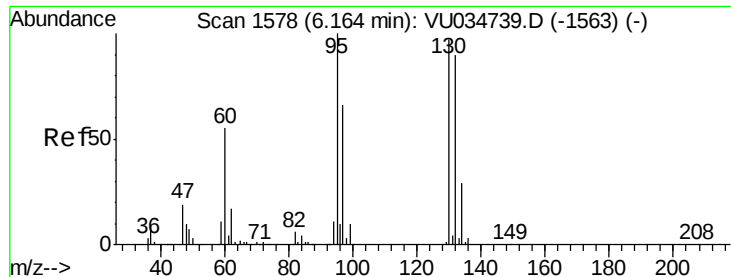
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#33
Benzene
Concen: 28.388 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VU034748.D
Acq: 23 Sep 2019 21:19

Tgt Ion: 78 Resp: 448571





#34

Trichloroethene

Concen: 57.453 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU034748.D

Acq: 23 Sep 2019 21:19

Instrument :

MSVOA_U

ClientSampleId :

BFDG6

Tot Ion: 95 Resp: 224206

Ion Ratio Lower Upper

95 100

97 65.7 43.7 81.1

132 91.5 61.0 113.2

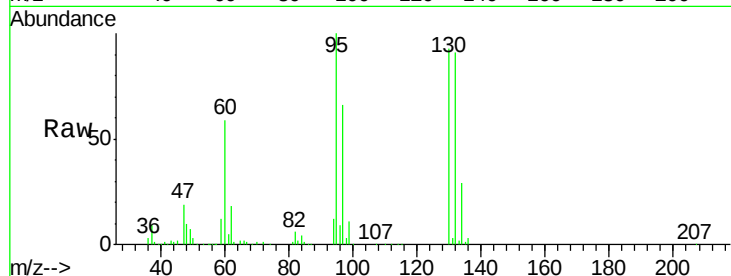
130 93.3 65.7 121.9

Manual Integrations

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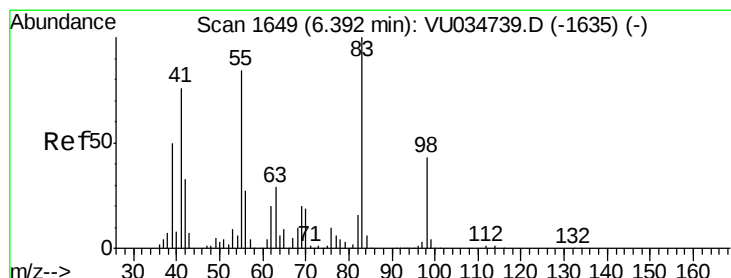
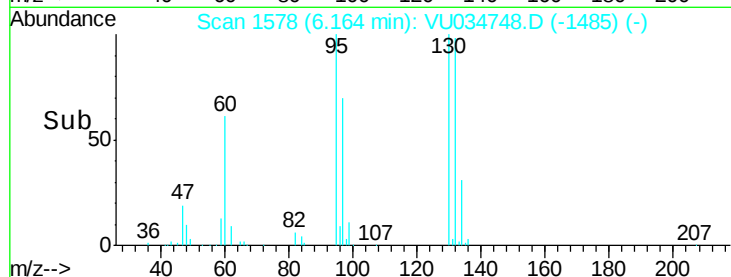
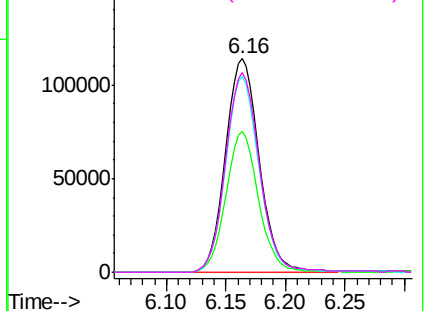


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 3.626 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU034748.D

Acq: 23 Sep 2019 21:19

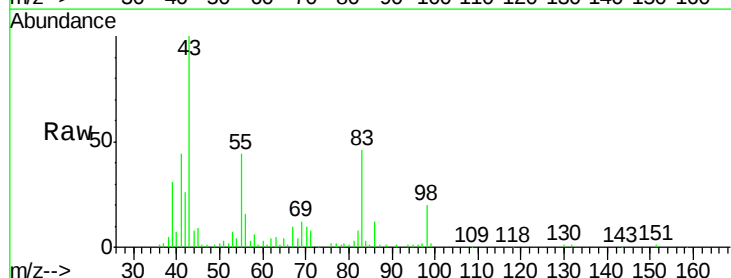
Tgt Ion: 83 Resp: 24015

Ion Ratio Lower Upper

83 100

55 93.0 71.6 107.4

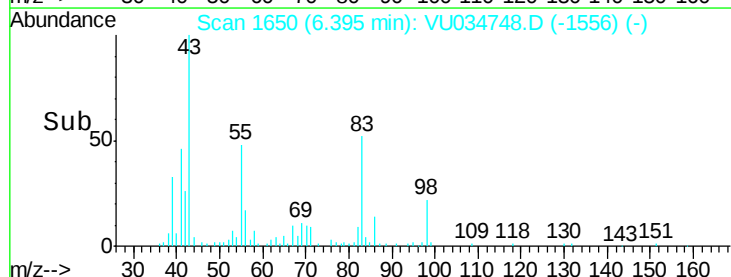
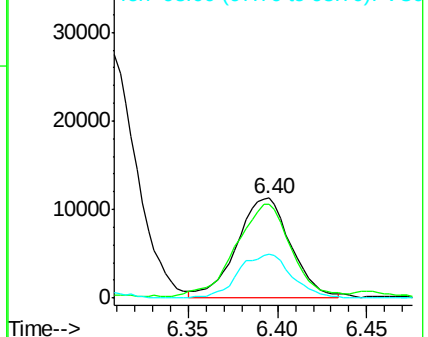
98 43.1 35.7 53.5

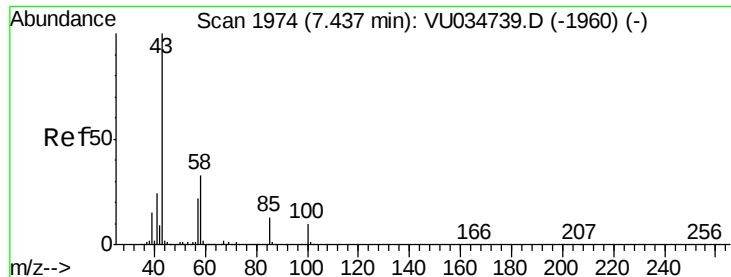


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





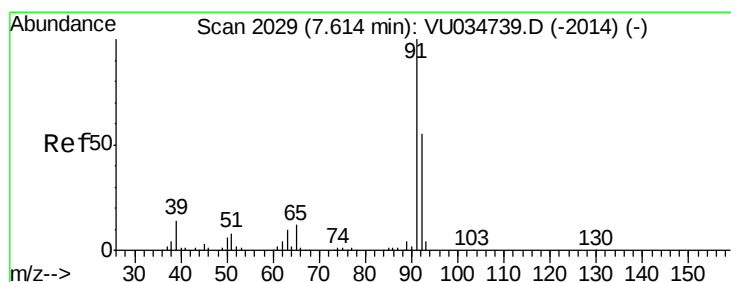
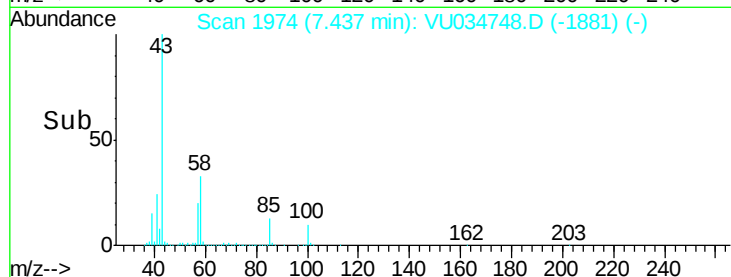
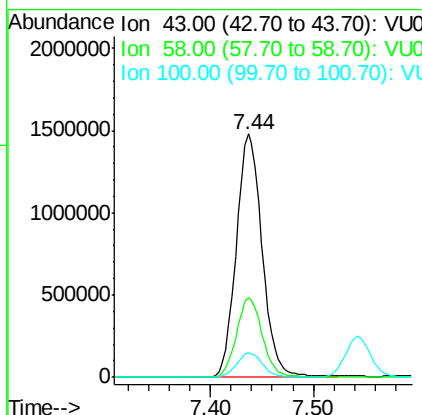
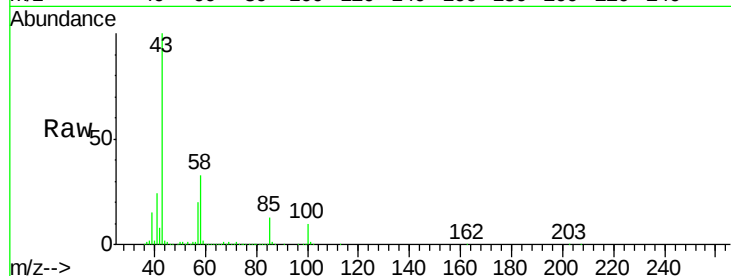
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4-Methyl-2-pentanone
Concen: 287.916 ug/L
RT: 7.44 min Scan# 1974
Delta R.T. -0.00 min
Lab File: VU034748.D
Acq: 23 Sep 2019 21:19

Instrument :
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ClientSampleId :
BFDG6

Tot Ion	Ratio	Lower	Upper
43	100		
58	32.7	25.2	37.8
100	10.1	7.7	11.5

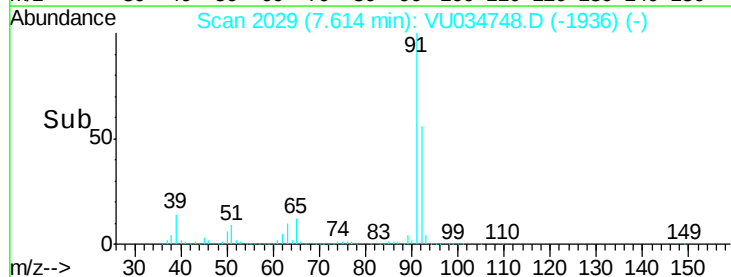
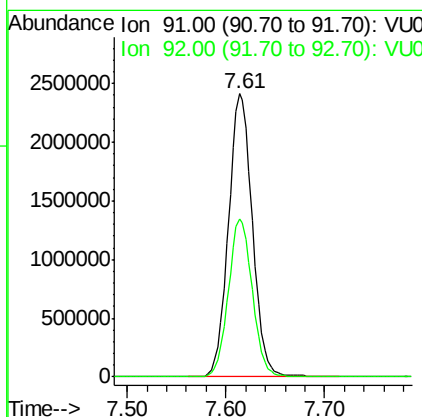
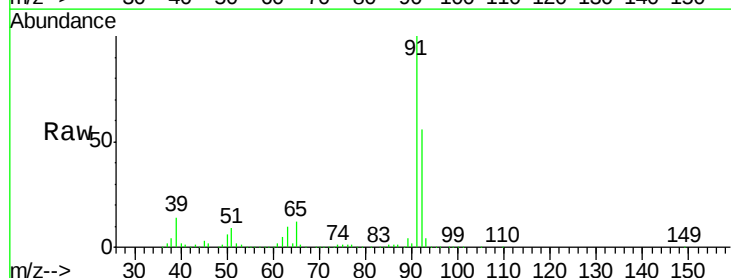
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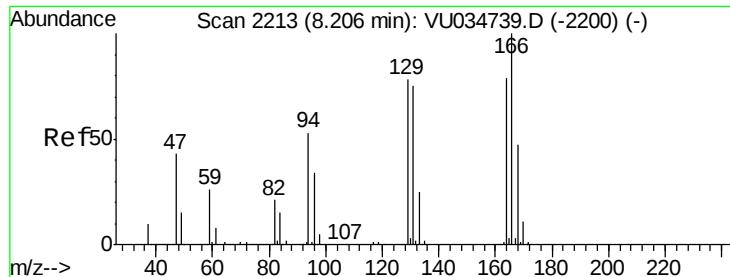
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#42
Toluene
Concen: 239.867 ug/L
RT: 7.61 min Scan# 2029
Delta R.T. -0.00 min
Lab File: VU034748.D
Acq: 23 Sep 2019 21:19

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.9	38.2	71.0





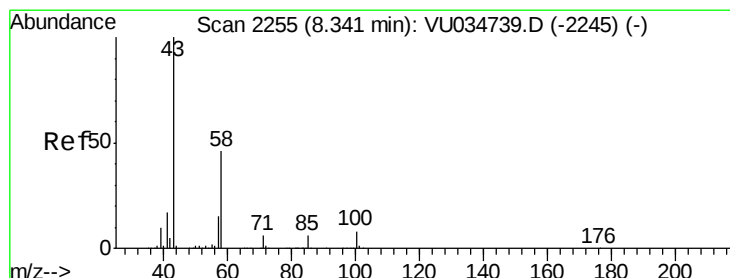
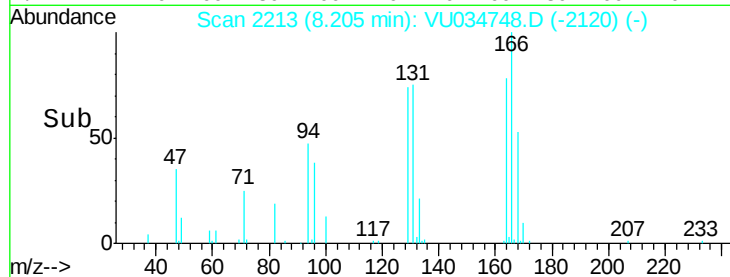
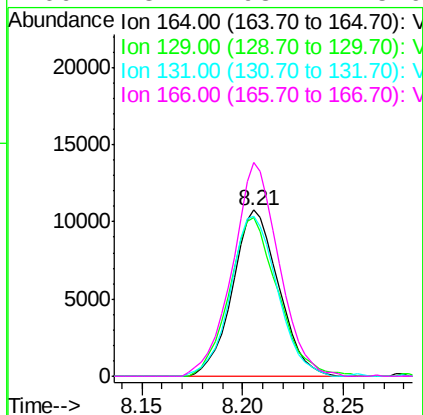
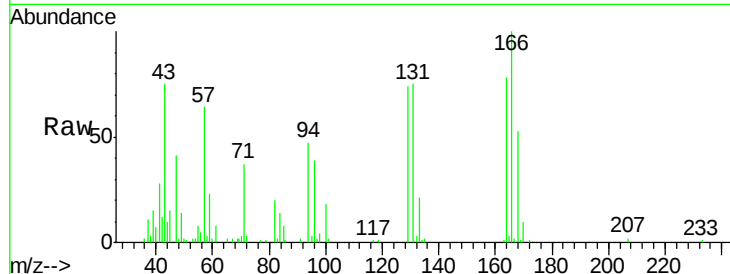
#46
Tetrachloroethene
Concen: 6.267 ug/L
RT: 8.21 min Scan# 2213
Delta R.T. -0.00 min
Lab File: VU034748.D
Acq: 23 Sep 2019 21:19

Instrument :
MSVOA_U
ClientSampleId :
BFDG6

Tot Ion	Ratio	Lower	Upper
164	100		
129	95.9	71.9	133.5
131	96.7	66.3	123.1
166	128.7	93.4	173.6

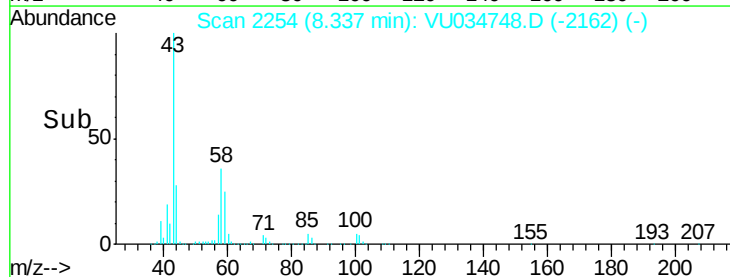
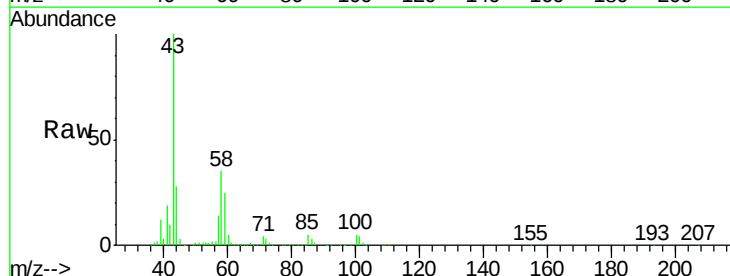
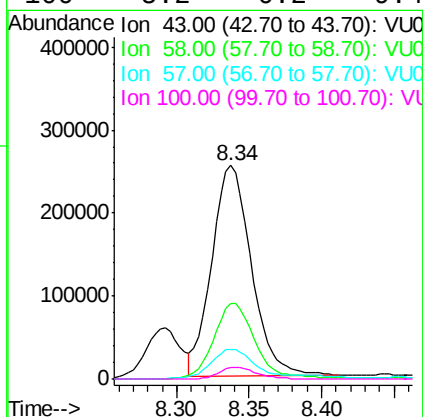
Manual Integrations
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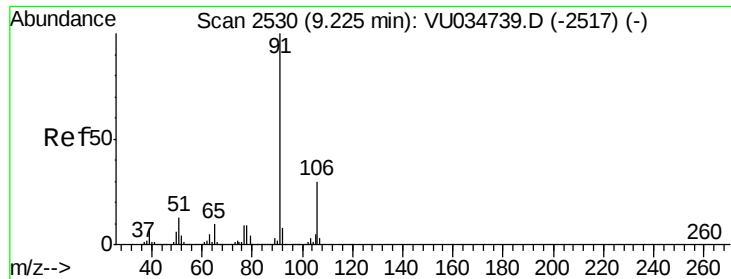
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#48
2-Hexanone
Concen: 68.645 ug/L
RT: 8.34 min Scan# 2254
Delta R.T. -0.00 min
Lab File: VU034748.D
Acq: 23 Sep 2019 21:19

Tgt Ion	Ratio	Lower	Upper
43	100		
58	37.7	35.3	52.9
57	15.3	12.1	18.1
100	5.2	6.2	9.4





#52

Ethylbenzene

Concen: 49.221 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034748.D

Acq: 23 Sep 2019 21:19

Instrument :

MSVOA_U

ClientSampled :

BFDG6

Tot Ion: 91 Resp: 946522

Ion Ratio Lower Upper

91 100

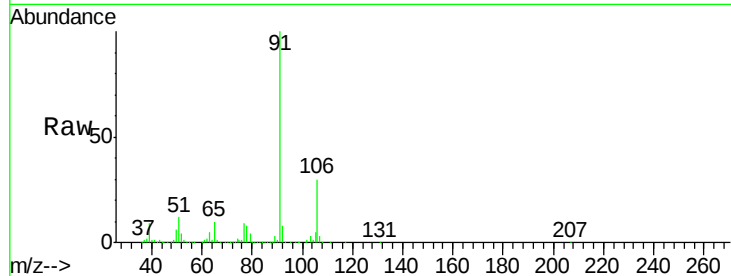
106 29.6 20.6 38.4

Manual Integrations

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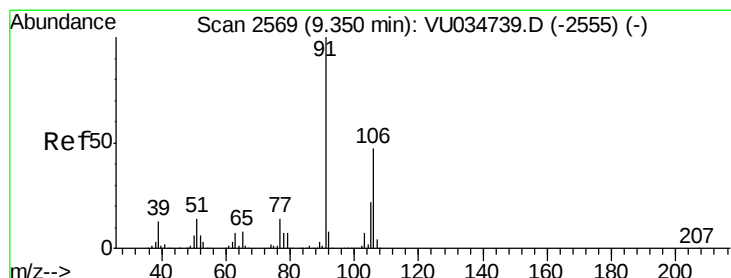
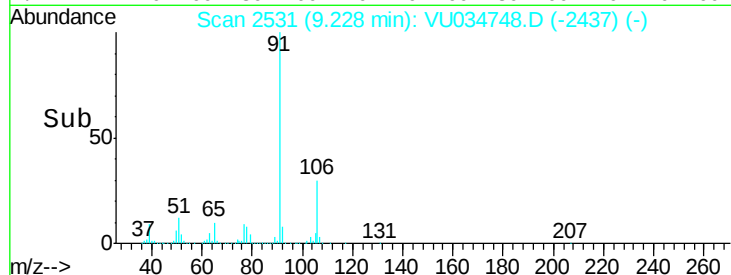
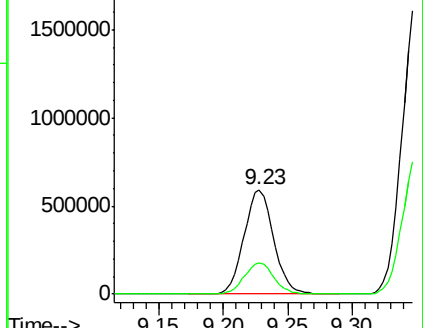
MMDadoda

9/24/2019 12:48:15 PM



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

Ion 106.00 (105.70 to 106.70): VU034739.D (-2517) (-)



#53

m,p-Xylene

Concen: 190.181 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034748.D

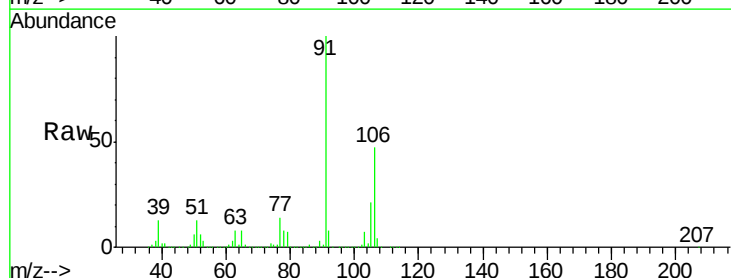
Acq: 23 Sep 2019 21:19

Tgt Ion: 106 Resp: 1295370

Ion Ratio Lower Upper

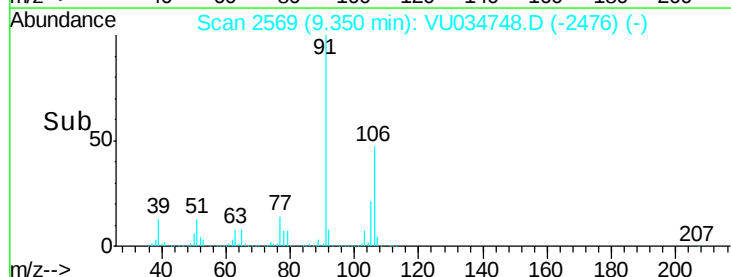
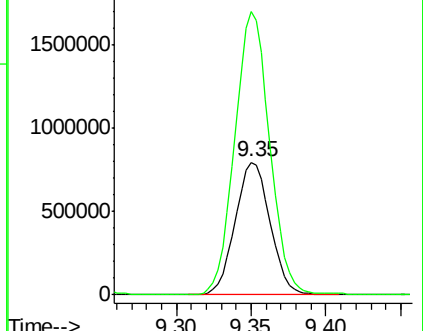
106 100

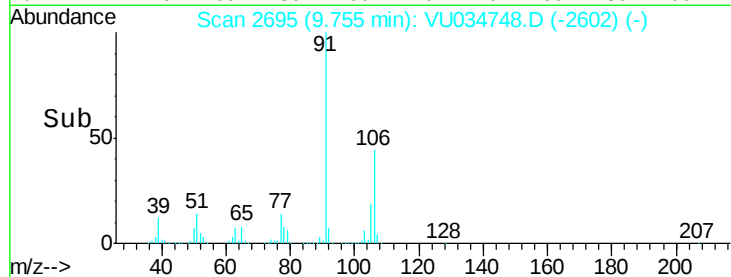
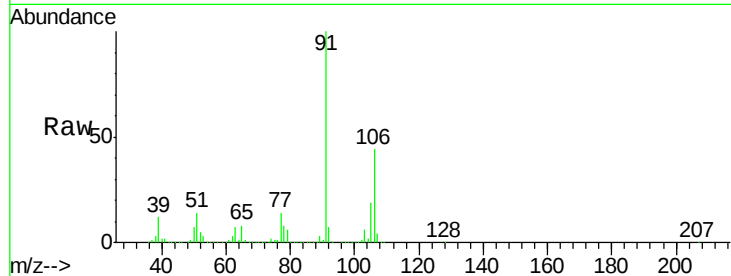
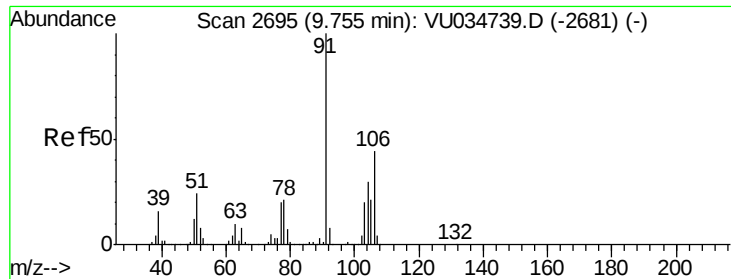
91 213.1 146.9 272.7



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

Ion 91.00 (90.70 to 91.70): VU034739.D (-2555) (-)





#54

o-xylene

Concen: 116.443 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.00 min

Lab File: VU034748.D

Acq: 23 Sep 2019 21:19

Tot Ion:106 Resp: 784464

Ion Ratio Lower Upper

106 100

91 225.0 155.6 289.0

Instrument :

MSVOA_U

ClientSampleId :

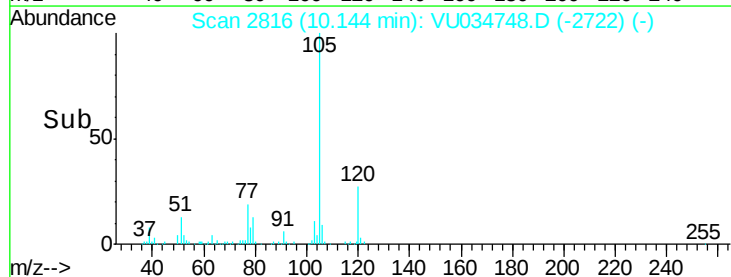
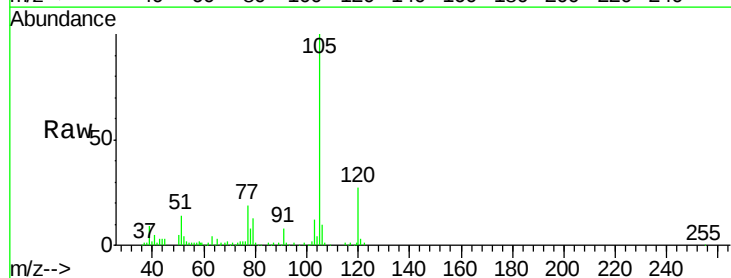
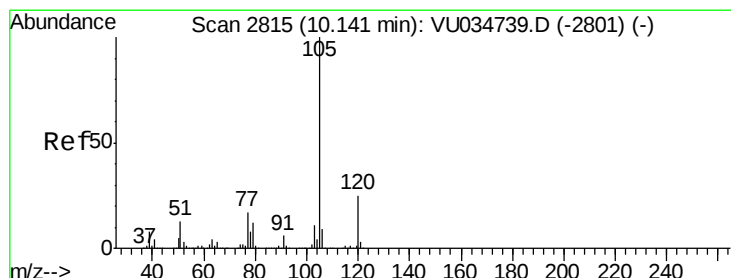
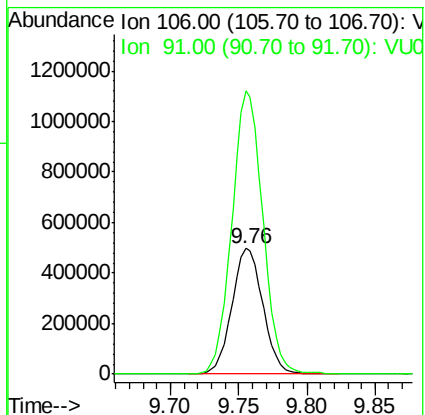
BFDG6

Manual Integrations

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#56

Isopropylbenzene

Concen: 4.290 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034748.D

Acq: 23 Sep 2019 21:19

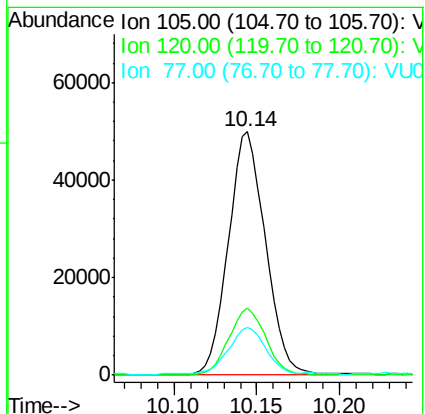
Tgt Ion:105 Resp: 77931

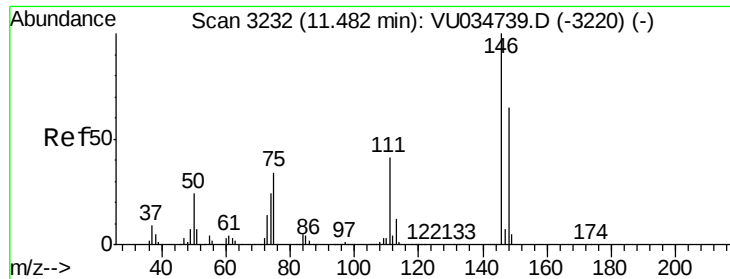
Ion Ratio Lower Upper

105 100

120 27.2 20.4 30.6

77 18.8 14.2 21.4





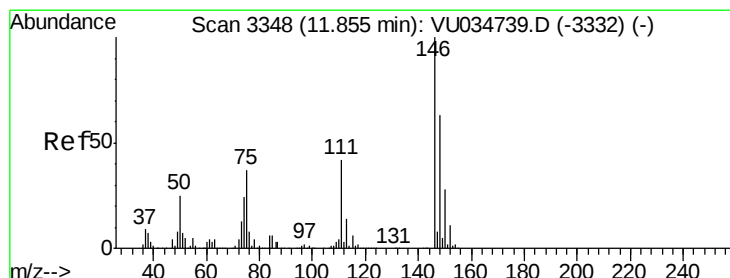
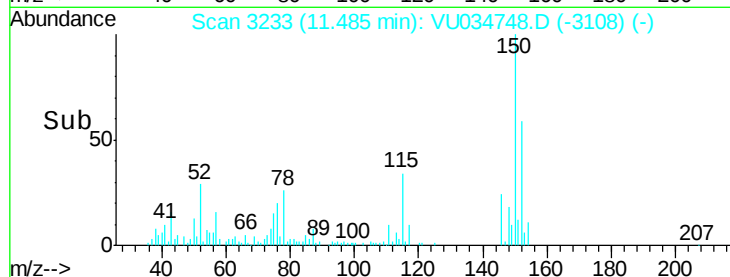
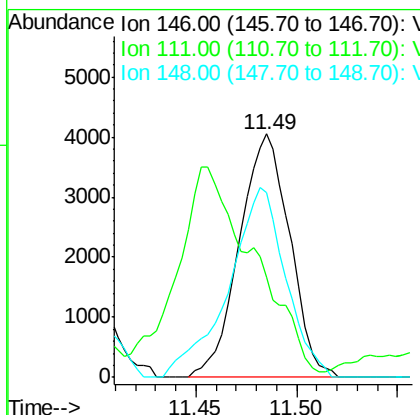
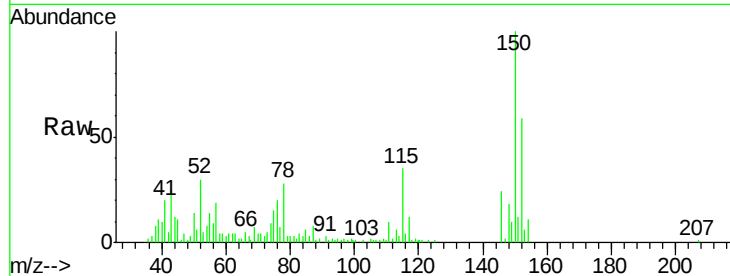
#63
 1,4-Dichlorobenzene
 Concen: 0.882 ug/L
 RT: 11.49 min Scan# 3233
 Delta R.T. 0.00 min
 Lab File: VU034748.D
 Acq: 23 Sep 2019 21:19

Instrument :
 MSVOA_U
 ClientSampled :
 BFDG6

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.1	29.5	54.9
148	75.6	44.4	82.4

Manual Integrations
 APPROVED

MMDadoda
 9/24/2019 12:48:15 PM



#65
 1,2-Dichlorobenzene
 Concen: 7.683 ug/L
 RT: 11.85 min Scan# 3348
 Delta R.T. -0.00 min
 Lab File: VU034748.D
 Acq: 23 Sep 2019 21:19

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.5	35.2	52.8
148	61.7	53.0	79.6

