

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW080919\
 Data File : VW011769.D
 Acq On : 08 Aug 2019 12:31
 Operator : SY/VA
 Sample : K4215-08
 Misc : 5.67G/10ML/MSVOA W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ETOB9

Manual Integrations
 APPROVED

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 8/12/2019 1:22:17 PM

Quant Time: Aug 09 03:49:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM073019S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Aug 09 02:27:11 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	268480	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	165534	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	212190	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	237623m	62.86	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	251.44%#
7) Chloroethane-d5	2.89	69	65177	23.94	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.76%
10) 1,1-Dichloroethene-d2	4.04	63	498541	57.52	ug/L	0.02
Spiked Amount	25.000	Range	45 - 110	Recovery	=	230.08%#
20) 2-Butanone-d5	0.00	46	0d	0.00	ug/L	
Spiked Amount	50.000	Range	20 - 135	Recovery	=	0.00%#
24) Chloroform-d	7.66	84	161918	21.96	ug/L	0.01
Spiked Amount	25.000	Range	40 - 150	Recovery	=	87.84%
26) 1,2-Dichloroethane-d4	8.31	65	102544	23.50	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	94.00%
29) Benzene-d6	8.28	84	346384	33.28	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	133.12%
33) 1,2-Dichloropropane-d6	9.29	67	220857	65.73	ug/L	0.01
Spiked Amount	25.000	Range	70 - 120	Recovery	=	262.92%#
37) Toluene-d8	10.33	98	647378	70.07	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	280.28%#
38) trans-1,3-Dichloropropene-	10.58	79	35670	24.22	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	96.88%
39) 2-Hexanone-d5	10.93	63	58477	74.50	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	149.00%#
48) 1,1,2,2-Tetrachloroethane-	12.68	84	930622	333.48	ug/L	-0.01
Spiked Amount	25.000	Range	45 - 120	Recovery	=	1333.92%#
61) 1,2-Dichlorobenzene-d4	13.87	152	114130	13.96	ug/L	0.02
Spiked Amount	25.000	Range	75 - 120	Recovery	=	55.84%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	2.35	62	19552091	3915.480	ug/L	93
12) 1,1-Dichloroethene	4.04	96	561207	145.539	ug/L #	82
13) Acetone	4.13	43	50766m	27.845	ug/L	
14) Carbon disulfide	4.40	76	70297	5.597	ug/L	100
16) Methylene chloride	4.92	84	2932533	699.929	ug/L	98
18) trans-1,2-Dichloroethene	5.43	96	1545959	388.046	ug/L	99
21) 2-Butanone	7.13	43	355078m	155.341	ug/L	
22) cis-1,2-Dichloroethene	7.14	96	73318572m	17590.689	ug/L	
30) Cyclohexane	7.96	56	353143	61.373	ug/L	85
34) Benzene	8.33	78	1459406	125.809	ug/L	100
35) Trichloroethene	9.10	95	4254316	1444.638	ug/L	99
36) Methylcyclohexane	9.34	83	628550	117.652	ug/L	91
43) 4-Methyl-2-pentanone	10.21	43	344329	122.733	ug/L	98
44) Toluene	10.39	91	19496393	1654.284	ug/L #	69
47) Tetrachloroethene	10.87	164	351176	156.121	ug/L	94
53) Ethylbenzene	11.74	91	13693863	1041.918	ug/L	93
54) m,p-Xylene	11.85	106	14294200	2990.967	ug/L #	44

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Quant Title : VOC Analysis
QLast Update : Fri Aug 09 02:27:11 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) o-xylene	12.18	106	5699580	1267.219	uq/L	86
57) Isopropylbenzene	12.49	105	2791371	225.591	uq/L #	92
58) 1,1,2,2-Tetrachloroethane	12.71	83	1491586	531.677	uq/L #	74

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

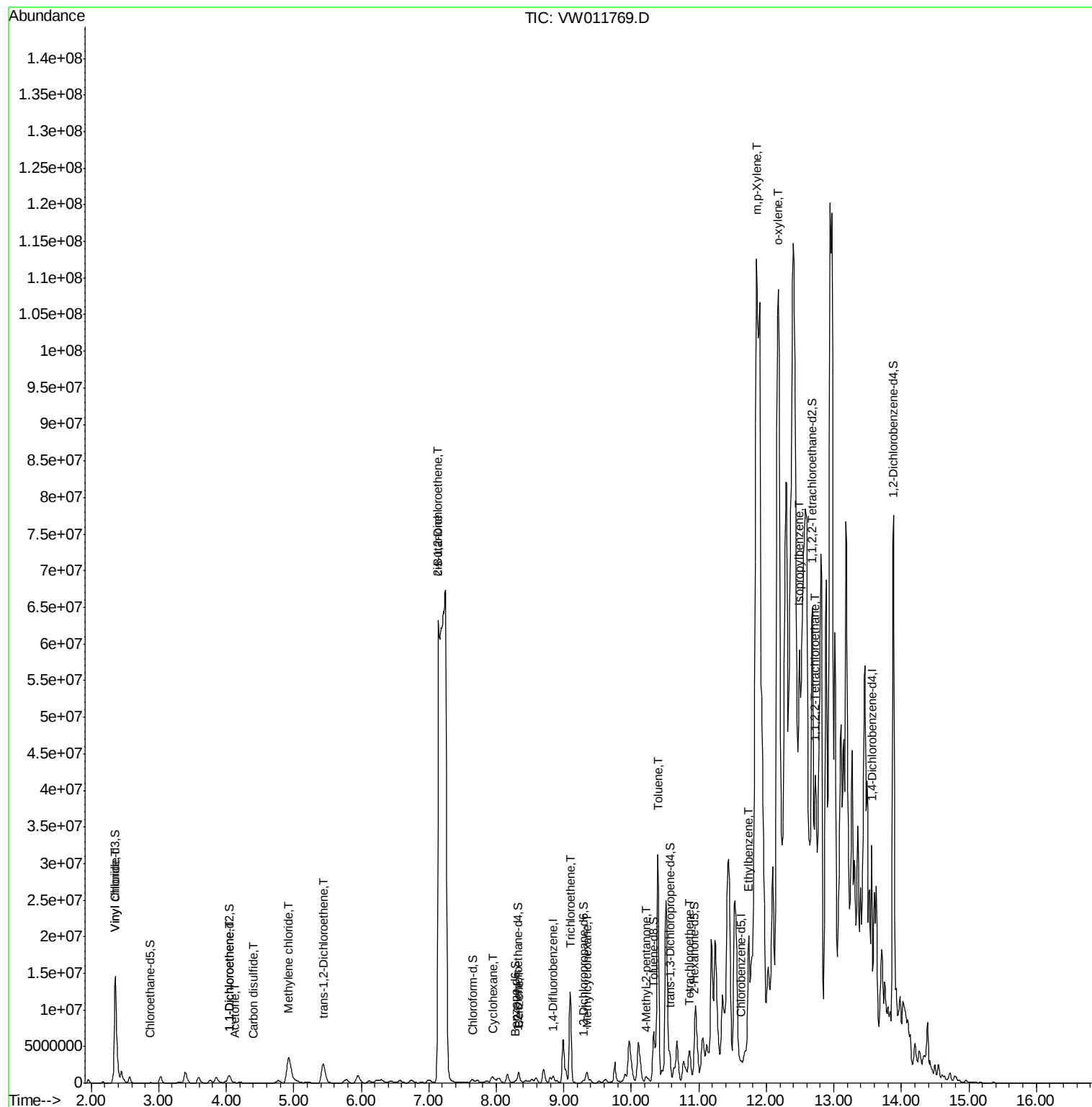
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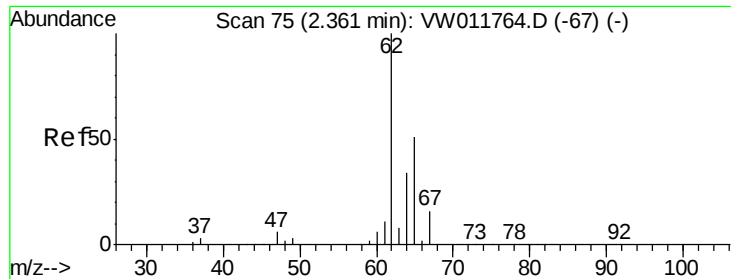
Instrument :
MSVOA_W
ClientSampleId :
ETOB9

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Quant Time: Aug 09 03:49:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM073019S.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 09 02:27:11 2019
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 3915.480 ug/L

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW011769.D

Acq: 08 Aug 2019 12:31

Instrument :

MSVOA_W

ClientSampleId :

ETOB9

Tot Ion: 62 Resp: 19552091

Ion Ratio Lower Upper

62 100

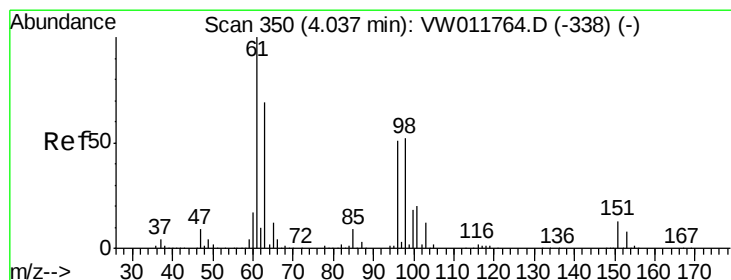
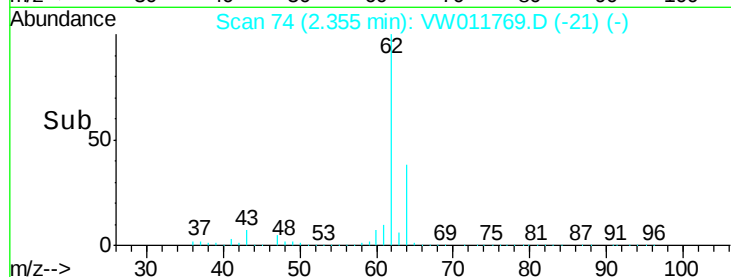
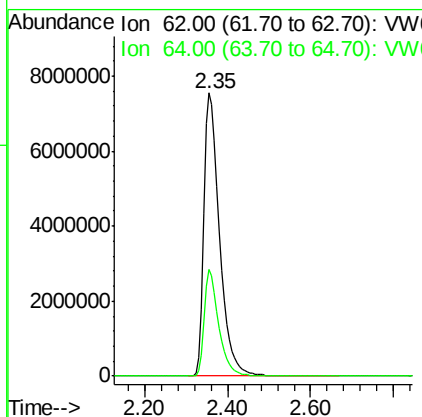
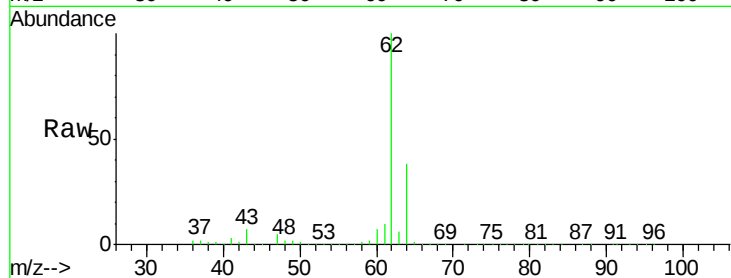
64 37.5 23.6 43.8

Manual Integrations

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#12

1,1-Dichloroethene

Concen: 145.539 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.01 min

Lab File: VW011769.D

Acq: 08 Aug 2019 12:31

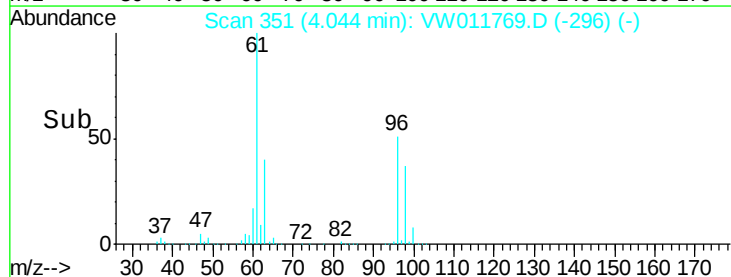
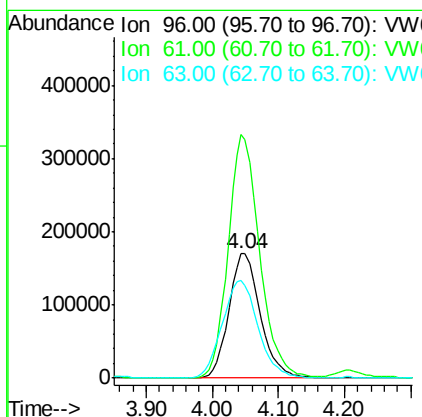
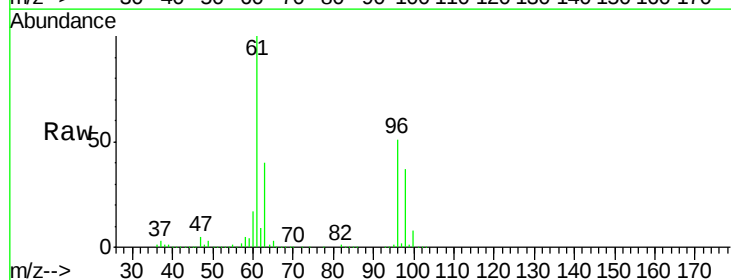
Tgt Ion: 96 Resp: 561207

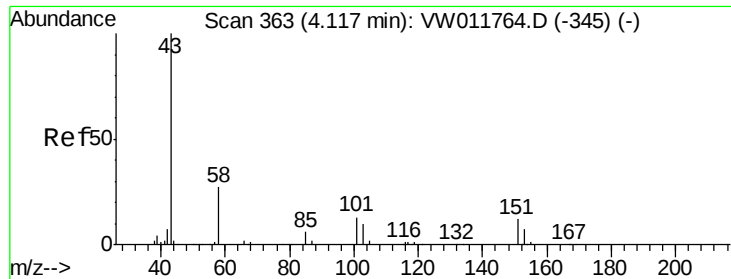
Ion Ratio Lower Upper

96 100

61 195.9 135.0 250.8

63 78.6 89.2 165.8#





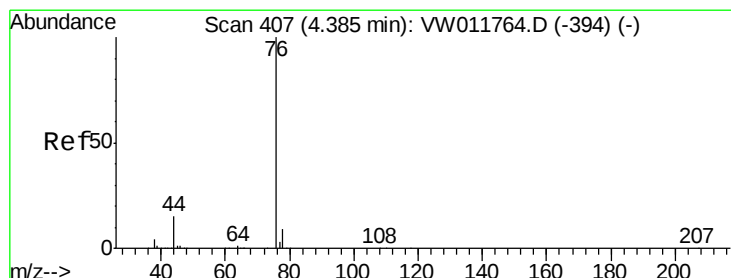
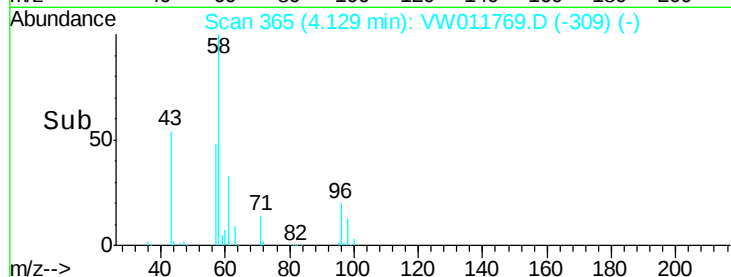
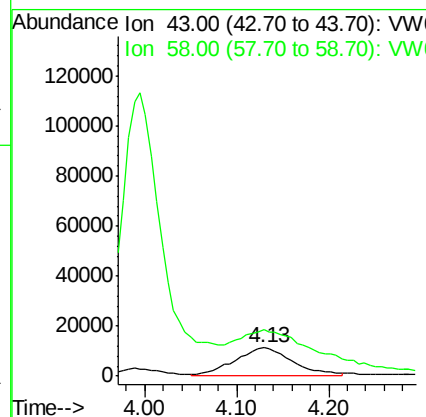
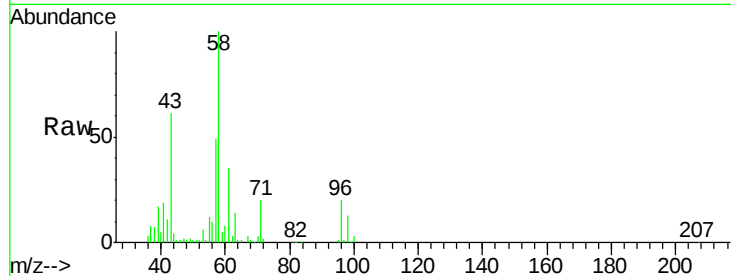
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Acetone
Concen: 27.845 ug/L m
RT: 4.13 min Scan# 365
Delta R.T. 0.01 min
Lab File: VW011769.D
Acq: 08 Aug 2019 12:31

Instrument :
MSVOA_W
ClientSampleId :
ETOB9

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.1	0.0	53.4

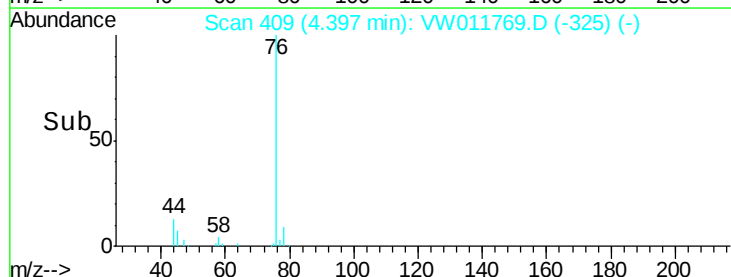
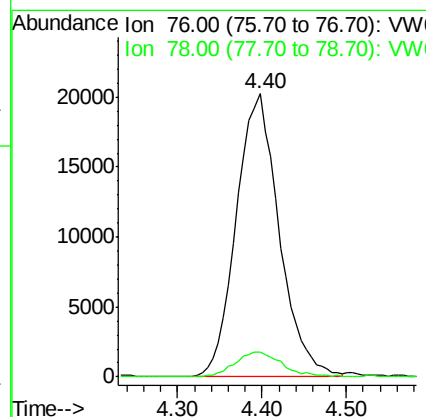
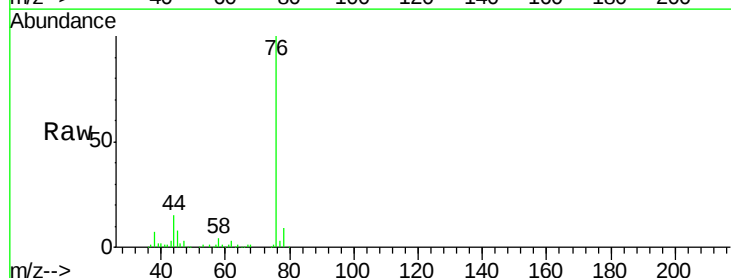
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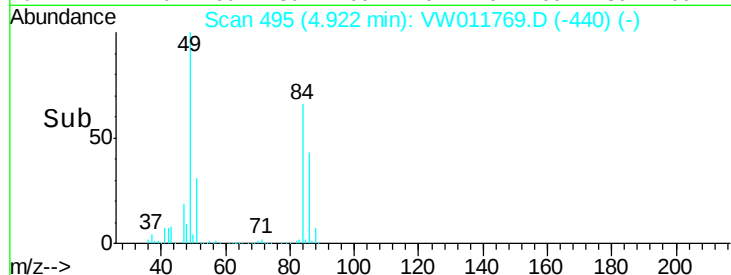
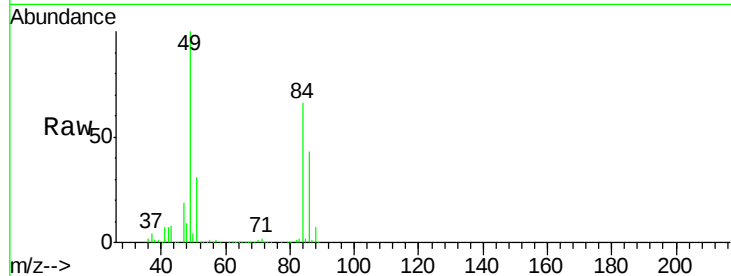
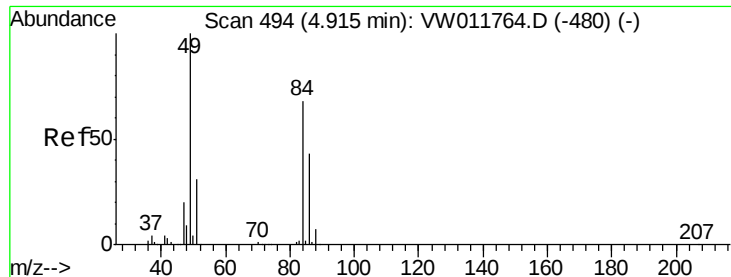
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#14
Carbon disulfide
Concen: 5.597 ug/L
RT: 4.40 min Scan# 409
Delta R.T. 0.01 min
Lab File: VW011769.D
Acq: 08 Aug 2019 12:31

Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.0	10.6





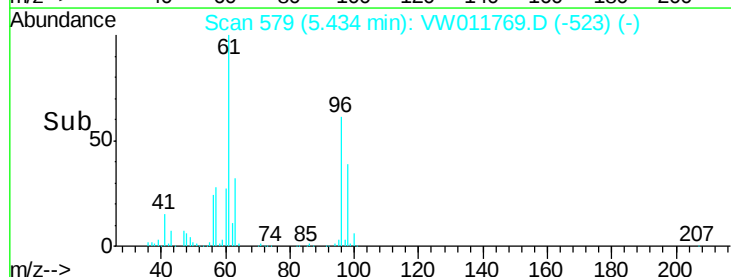
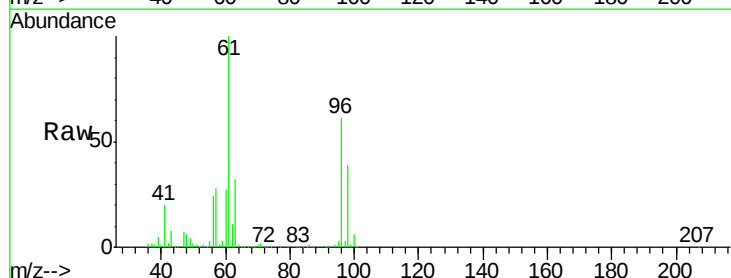
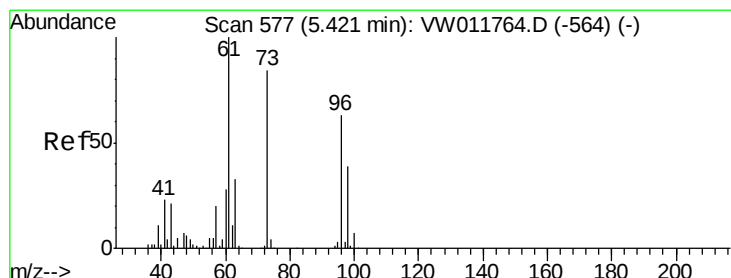
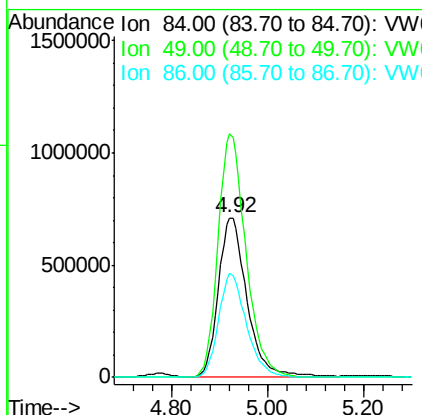
#16
Methylene chloride
Concen: 699.929 ug/L
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW011769.D
Acq: 08 Aug 2019 12:31

Tot Ion	Ratio	Lower	Upper
84	100		
49	152.5	106.8	198.4
86	65.0	42.8	79.4

Instrument :
MSVOA_W
ClientSampled :
ETOB9

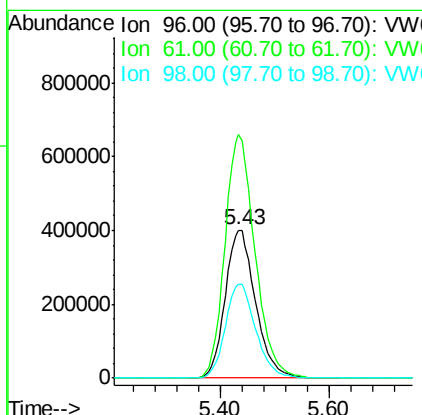
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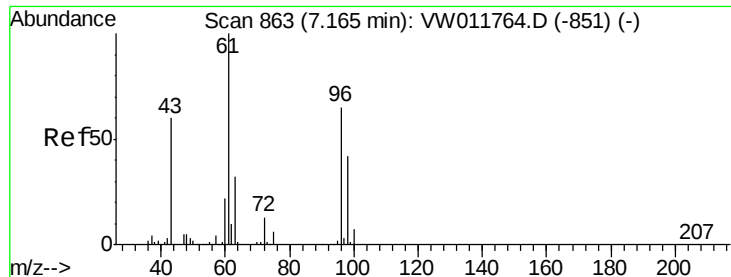
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#18
trans-1,2-Dichloroethene
Concen: 388.046 ug/L
RT: 5.43 min Scan# 579
Delta R.T. 0.01 min
Lab File: VW011769.D
Acq: 08 Aug 2019 12:31

Tgt Ion	Ratio	Lower	Upper
96	100		
61	164.9	114.2	212.0
98	63.7	45.6	84.6





#21

2-Butanone

Concen: 155.341 ug/L m

RT: 7.13 min Scan# 858

Delta R.T. -0.03 min

Lab File: VW011769.D

Acq: 08 Aug 2019 12:31

Instrument :

MSVOA_W

ClientSampleId :

ETOB9

Tot Ion: 43 Resp: 355078

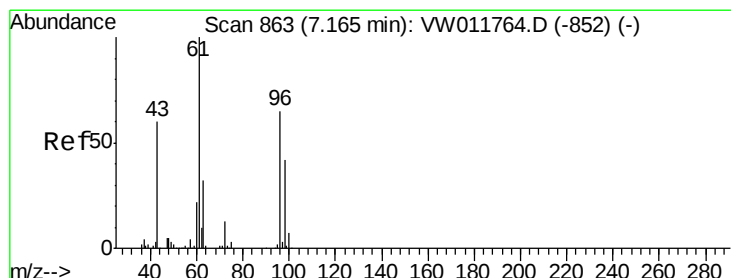
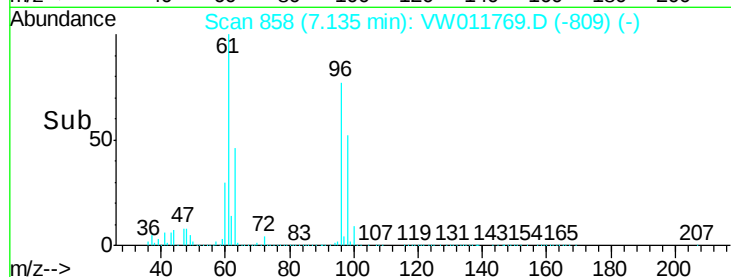
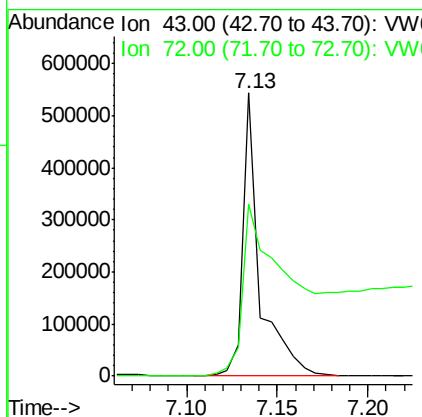
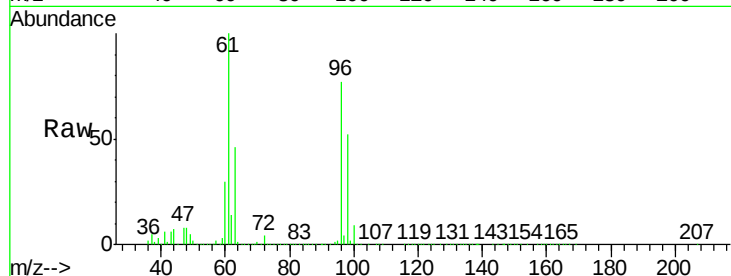
Ion Ratio Lower Upper

43 100

72 4.7 10.7 32.1#

Manual Integrations
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#22

cis-1,2-Dichloroethene

Concen: 17590.689 ug/L m

RT: 7.14 min Scan# 859

Delta R.T. -0.02 min

Lab File: VW011769.D

Acq: 08 Aug 2019 12:31

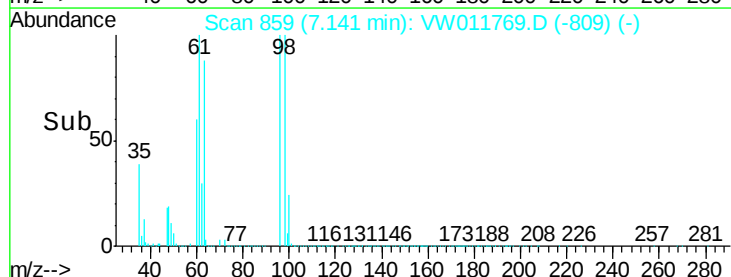
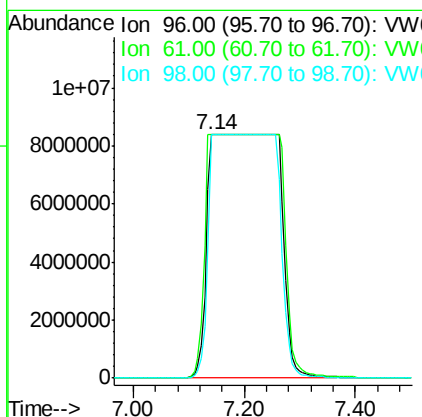
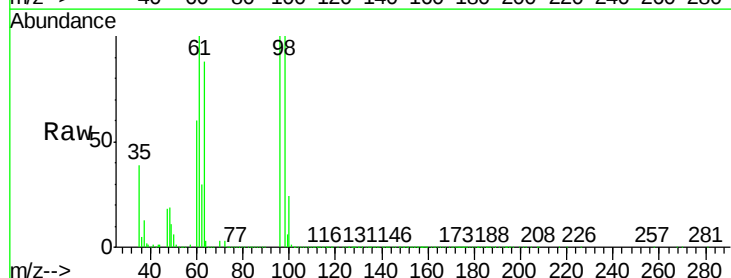
Tgt Ion: 96 Resp: 73318572

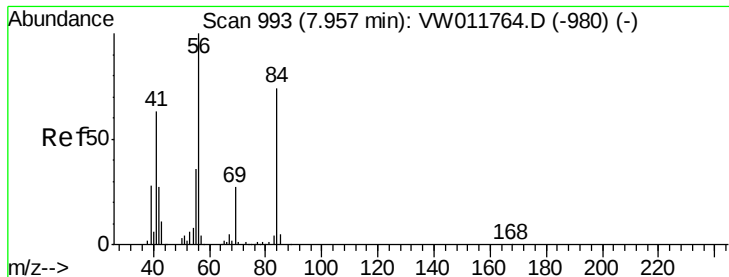
Ion Ratio Lower Upper

96 100

61 100.0 103.9 192.9#

98 100.0 43.5 80.9#





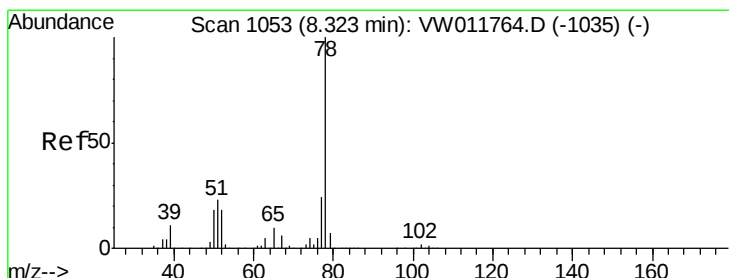
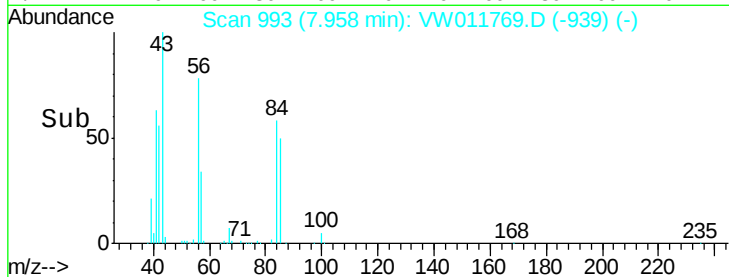
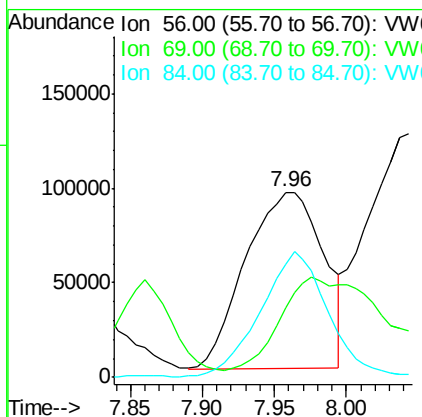
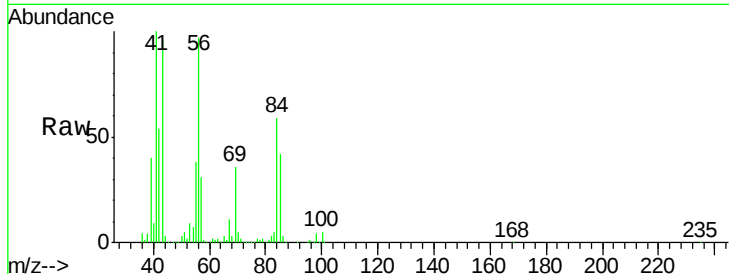
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Cyclohexane
Concen: 61.373 ug/L
RT: 7.96 min Scan# 993
Delta R.T. 0.00 min
Lab File: VW011769.D
Acq: 08 Aug 2019 12:31

Instrument :
MSVOA_W
ClientSampled :
ETOB9

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.6	22.4	33.6
84	61.3	60.6	91.0

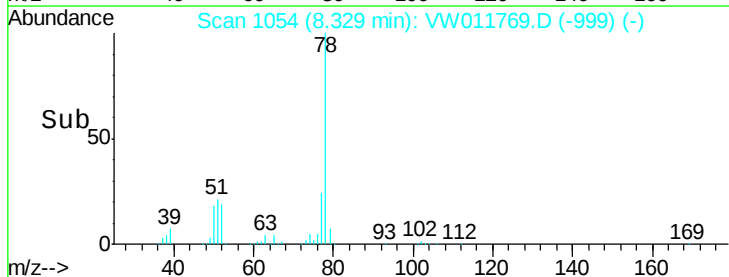
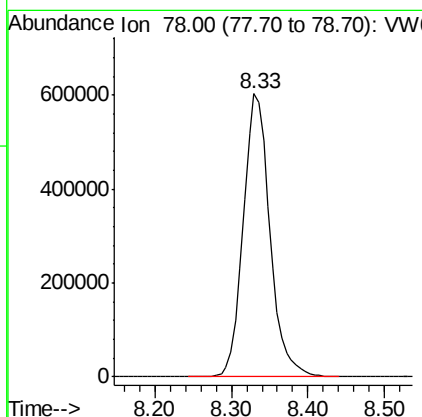
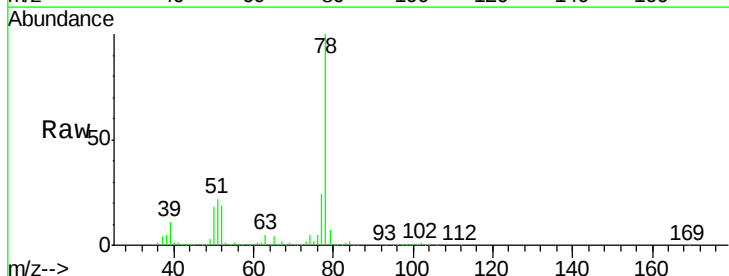
Manual Integrations
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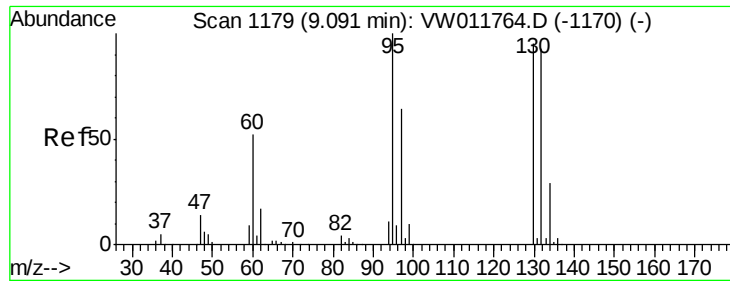
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#34
Benzene
Concen: 125.809 ug/L
RT: 8.33 min Scan# 1054
Delta R.T. 0.01 min
Lab File: VW011769.D
Acq: 08 Aug 2019 12:31

Tgt Ion: 78 Resp: 1459406





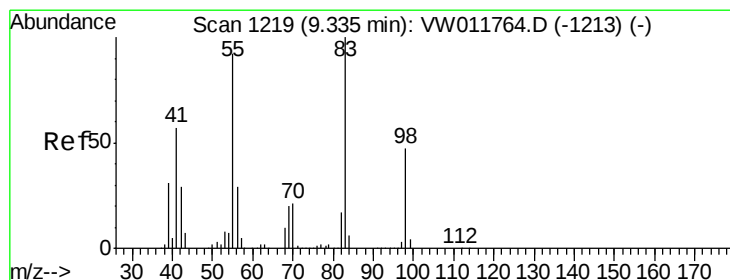
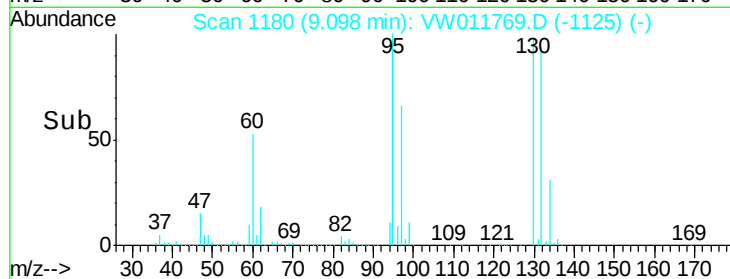
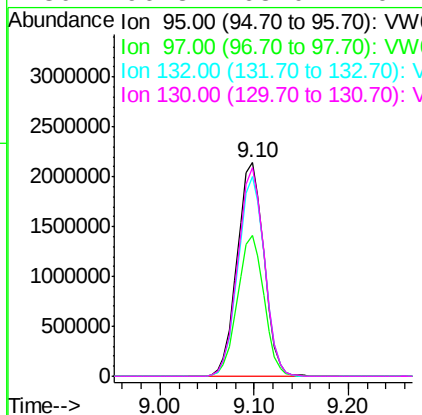
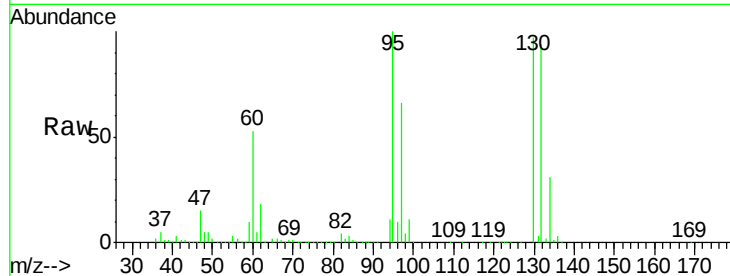
#35
 Trichloroethene
 Concen: 1444.638 ug/L
 RT: 9.10 min Scan# 1180
 Delta R.T. 0.01 min
 Lab File: VW011769.D
 Acq: 08 Aug 2019 12:31

Instrument :
 MSVOA_W
 ClientSampleId :
 ETOB9

Tot Ion: 95 Resp: 4254316
 Ion Ratio Lower Upper
 95 100
 97 65.2 44.8 83.2
 132 92.9 65.0 120.6
 130 96.3 68.0 126.4

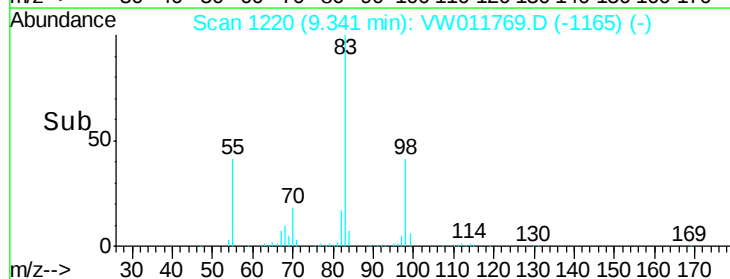
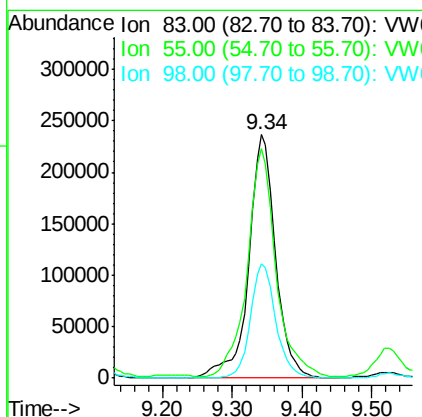
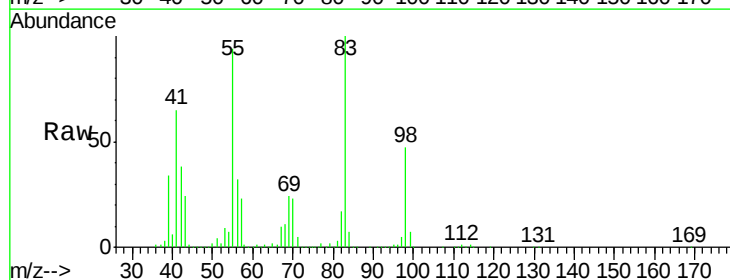
Manual Integrations
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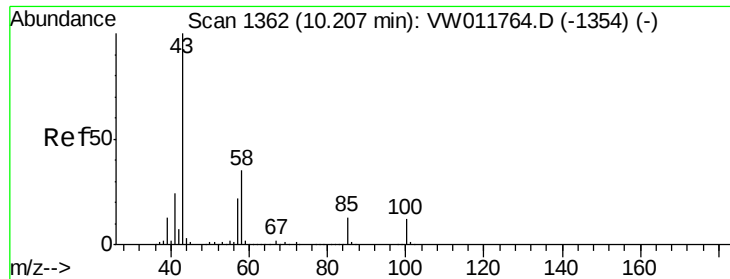
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#36
 Methylcyclohexane
 Concen: 117.652 ug/L
 RT: 9.34 min Scan# 1220
 Delta R.T. 0.01 min
 Lab File: VW011769.D
 Acq: 08 Aug 2019 12:31

Tgt Ion: 83 Resp: 628550
 Ion Ratio Lower Upper
 83 100
 55 100.6 72.6 108.8
 98 43.9 37.8 56.6





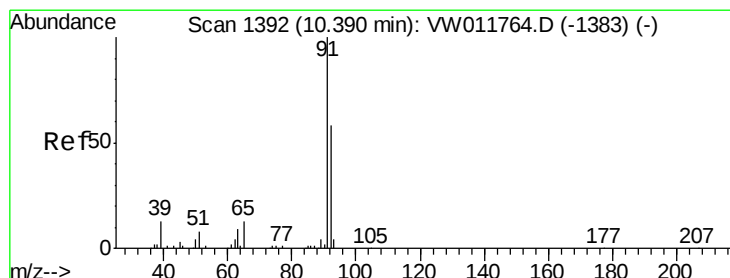
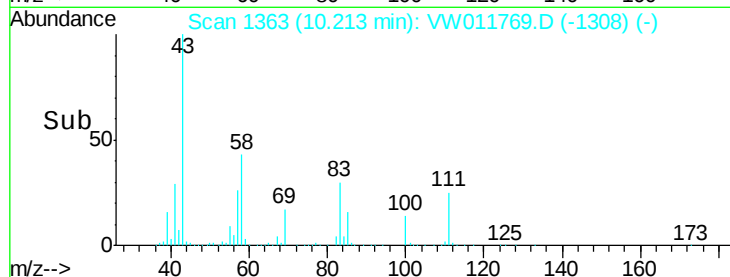
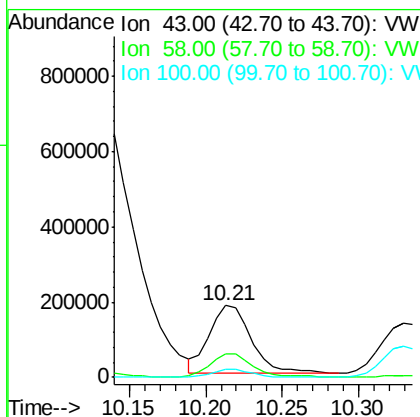
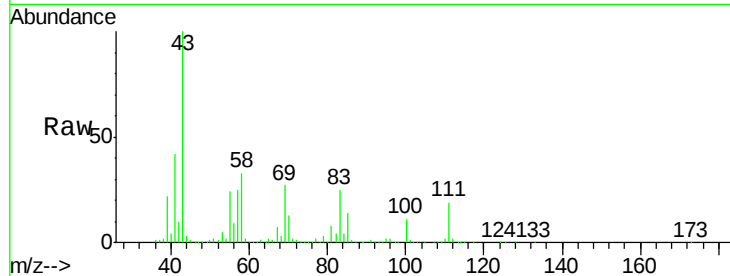
#43
4-Methyl-2-pentanone
Concen: 122.733 ug/L
RT: 10.21 min Scan# 1363
Delta R.T. 0.01 min
Lab File: VW011769.D
Acq: 08 Aug 2019 12:31

Instrument :
MSVOA_W
ClientSampleId :
ETOB9

Tot Ion	Ratio	Lower	Upper
43	100		
58	33.6	28.0	42.0
100	11.5	9.4	14.2

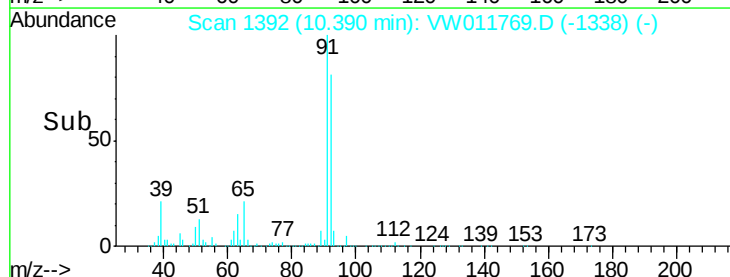
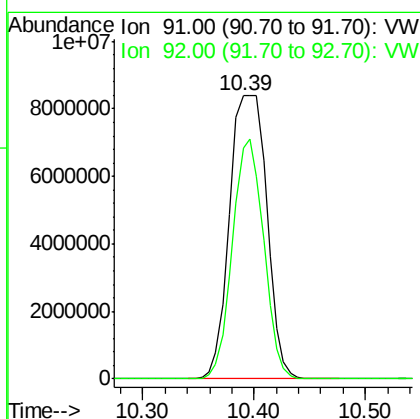
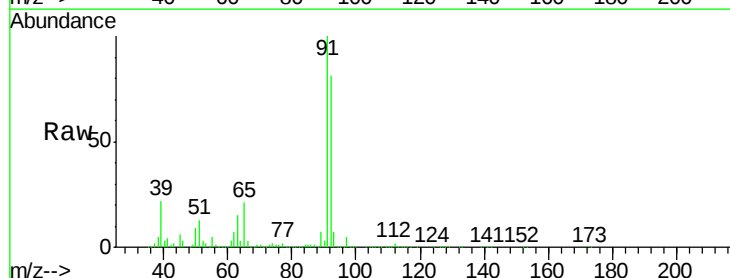
Manual Integrations
APPROVED

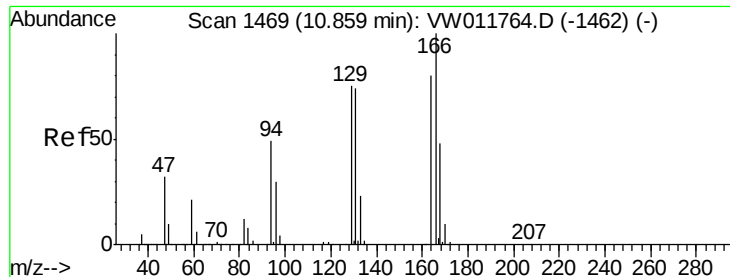
MMDadoda
8/12/2019 1:22:17 PM



#44
Toluene
Concen: 1654.284 ug/L
RT: 10.39 min Scan# 1392
Delta R.T. 0.00 min
Lab File: VW011769.D
Acq: 08 Aug 2019 12:31

Tgt Ion	Ratio	Lower	Upper
91	100		
92	81.4	40.9	76.0





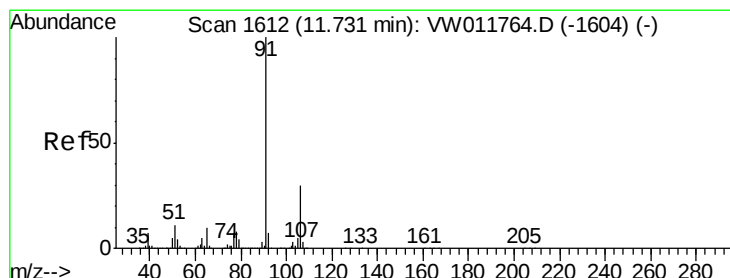
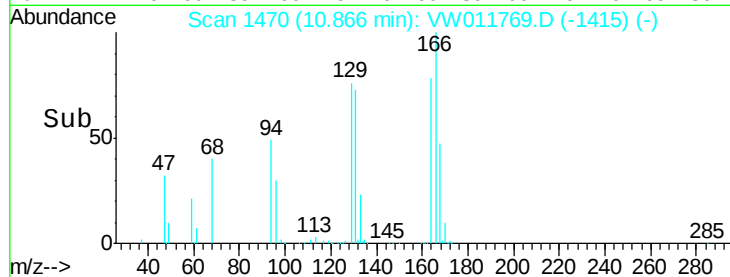
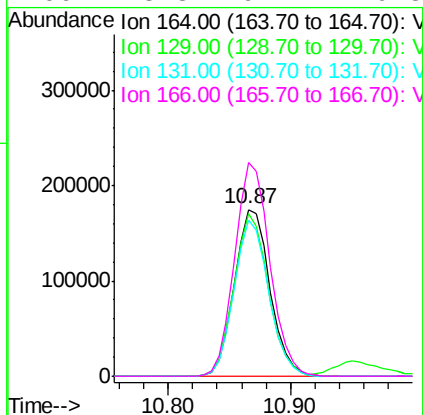
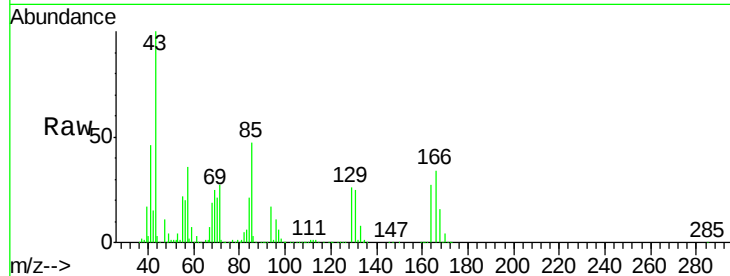
#47
Tetrachloroethene
Concen: 156.121 ug/L
RT: 10.87 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VW011769.D
Acq: 08 Aug 2019 12:31

Instrument :
MSVOA_W
ClientSampleId :
ETOB9

Tot Ion	Ratio	Lower	Upper
164	100		
129	97.8	64.0	119.0
131	93.5	58.6	108.8
166	128.3	91.7	170.3

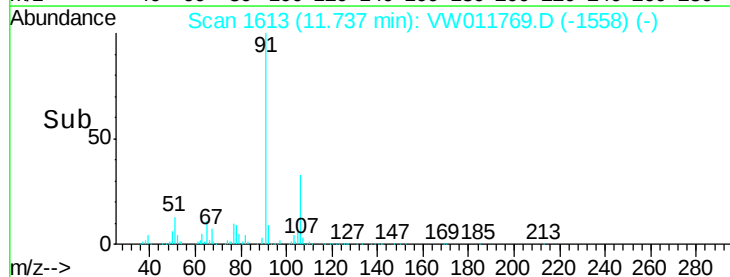
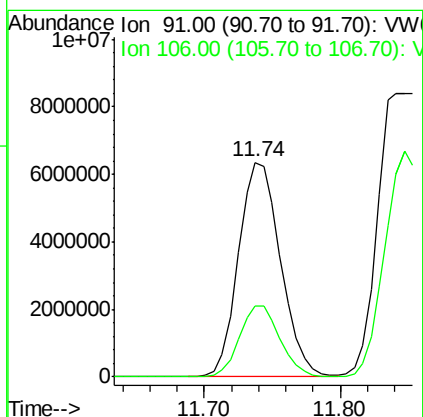
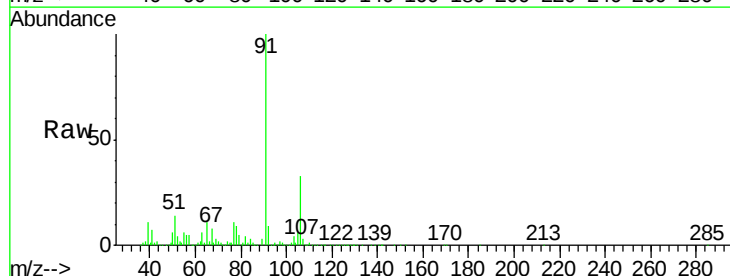
Manual Integrations
APPROVED

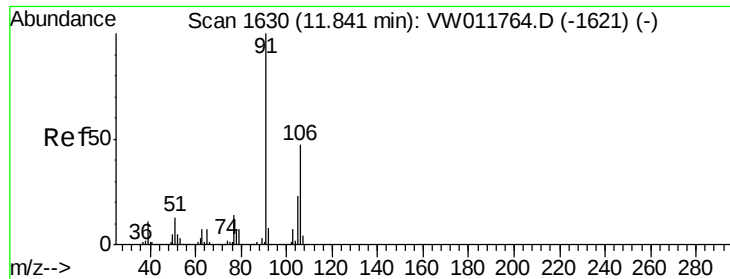
MMDadoda
8/12/2019 1:22:17 PM



#53
Ethylbenzene
Concen: 1041.918 ug/L
RT: 11.74 min Scan# 1613
Delta R.T. 0.01 min
Lab File: VW011769.D
Acq: 08 Aug 2019 12:31

Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.2	20.6	38.4





#54

m.p-Xylene

Concen: 2990.967 ug/L

RT: 11.85 min Scan# 1631

Delta R.T. 0.01 min

Lab File: VW011769.D

Acq: 08 Aug 2019 12:31

Instrument :

MSVOA_W

ClientSampled :

ETOB9

Tot Ion:106 Resp:14294200

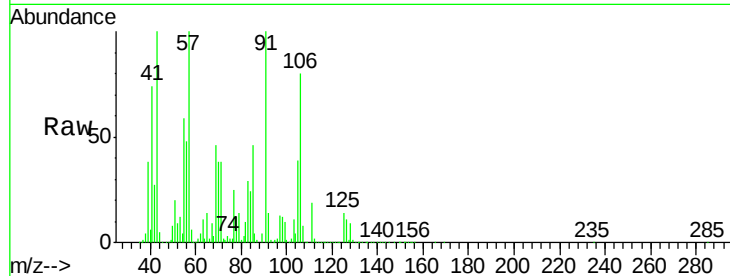
Ion Ratio Lower Upper

106 100

91 125.6 149.6 277.8#

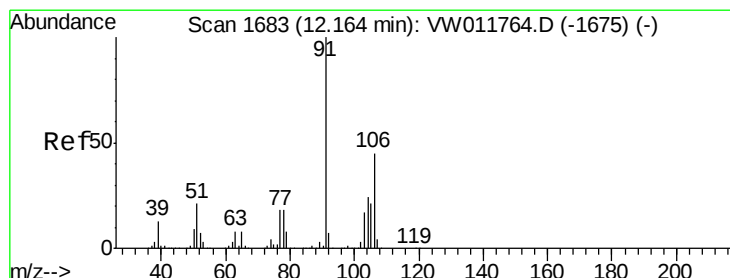
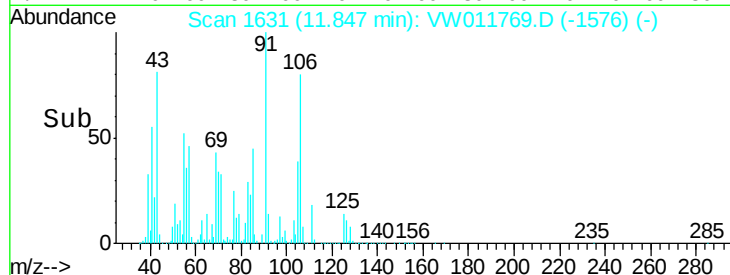
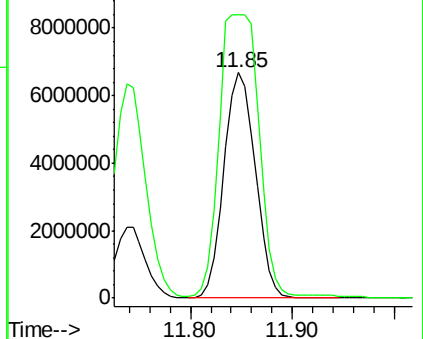
Manual Integrations
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8/12/2019 1:22:17 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 1267.219 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.02 min

Lab File: VW011769.D

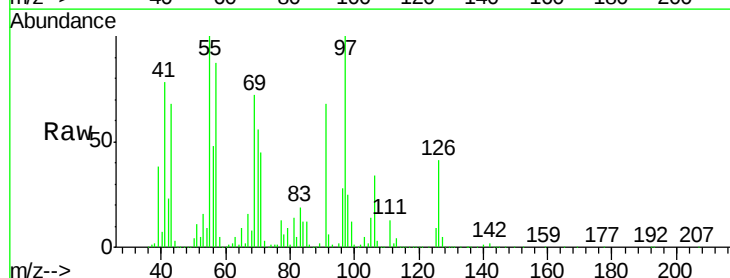
Acq: 08 Aug 2019 12:31

Tgt Ion:106 Resp: 5699580

Ion Ratio Lower Upper

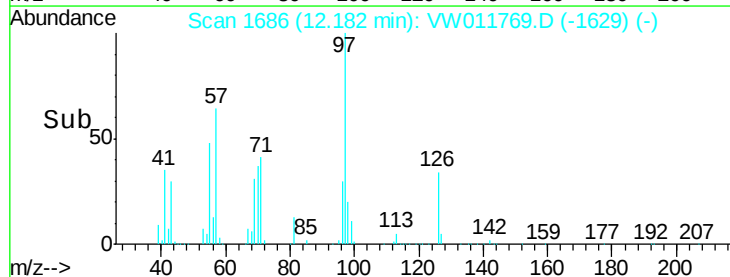
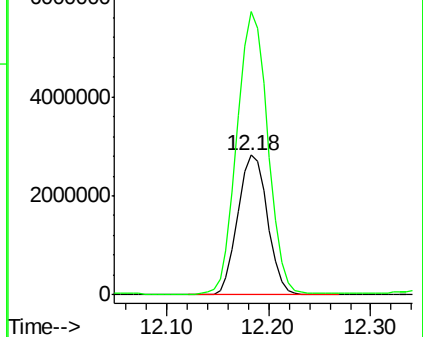
106 100

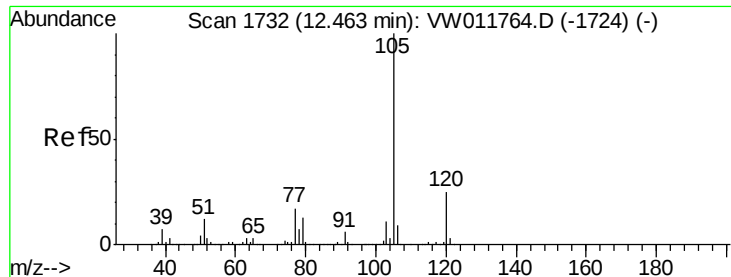
91 202.7 158.3 293.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#57

Isopropylbenzene

Concen: 225.591 ug/L

RT: 12.49 min Scan# 1736

Delta R.T. 0.02 min

Lab File: VW011769.D

Acq: 08 Aug 2019 12:31

Instrument :

MSVOA_W

ClientSampleId :

ETOB9

Tot Ion:105 Resp: 2791371

Ion Ratio Lower Upper

105 100

120 25.6 20.6 30.8

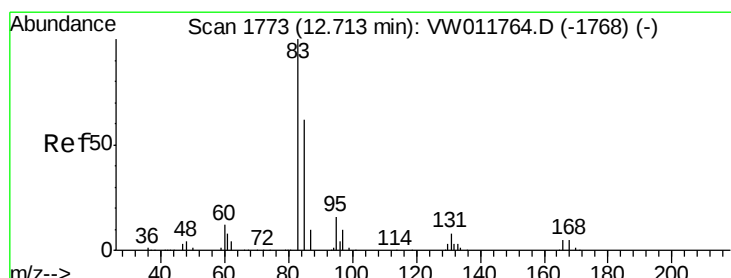
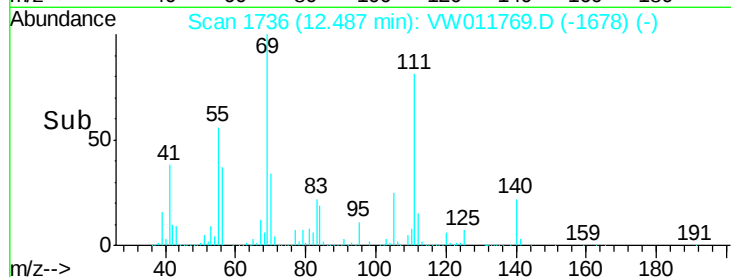
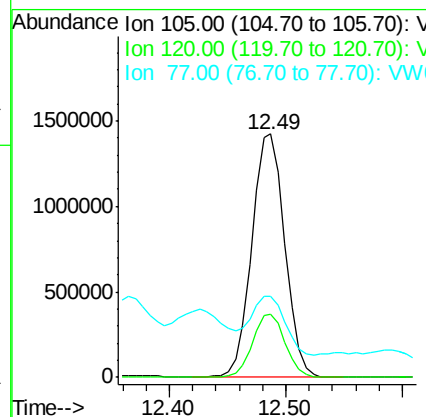
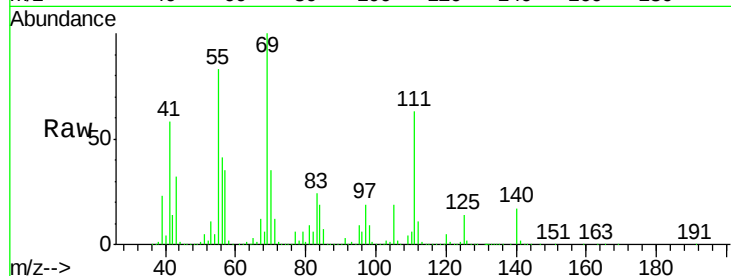
77 25.7 13.4 20.2#

Manual Integrations

APPROVED

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8/12/2019 1:22:17 PM



#58

1,1,2,2-Tetrachloroethane

Concen: 531.677 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW011769.D

Acq: 08 Aug 2019 12:31

Tgt Ion: 83 Resp: 1491586

Ion Ratio Lower Upper

83 100

85 41.9 43.5 80.9#

131 0.0 7.5 11.3#

