

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV061220\
 Data File : VV016911.D
 Acq On : 13 Jun 2020 04:53
 Operator : SY/MD
 Sample : L2990-13MS
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 E3YG8MS

Manual Integrations
 APPROVED

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 6/15/2020 12:23:12 PM

Quant Time: Jun 13 07:18:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM060820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jun 13 06:09:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.65	114	370686	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.88	117	349807	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	191156	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	103136	39.43	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	78.86%
7) Chloroethane-d5	1.57	69	62278	39.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	79.36%
11) 1,1-Dichloroethene-d2	2.12	63	206634	47.05	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.10%
21) 2-Butanone-d5	3.90	46	173724	89.74	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	89.74%
24) Chloroform-d	4.38	84	224146	42.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.28%
26) 1,2-Dichloroethane-d4	5.06	65	170633	47.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.34%
32) Benzene-d6	5.08	84	434654	43.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.20%
36) 1,2-Dichloropropane-d6	6.10	67	132828	42.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	84.52%
41) Toluene-d8	7.39	98	417417m	45.11	ug/L	0.05
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.22%
43) trans-1,3-Dichloropropene-	7.66	79	66378	40.55	ug/L	0.02
Spiked Amount	50.000	Range	60 - 125	Recovery	=	81.10%
47) 2-Hexanone-d5	8.12	63	113092	82.53	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	82.53%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	169521	40.74	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	81.48%
64) 1,2-Dichlorobenzene-d4	11.65	152	176895	43.36	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.72%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	11036	4.176	ug/L # 78
12) 1,1-Dichloroethene	2.13	96	91994	50.002	ug/L 93
13) Acetone	2.18	43	3606	2.827	ug/L 75
15) Methyl Acetate	2.44	43	54932	19.322	ug/L 99
19) 1,1-Dichloroethane	3.21	63	28722	6.083	ug/L 99
20) cis-1,2-Dichloroethene	3.94	96	81321	29.736	ug/L 98
29) Cyclohexane	4.70	56	455113	104.698	ug/L 98
30) 1,1,1-Trichloroethane	4.64	97	4321	0.969	ug/L # 86
33) Benzene	5.13	78	477978	46.182	ug/L 100
34) Trichloroethene	5.94	95	132206	47.629	ug/L 98
35) Methylcyclohexane	6.16	83	2579740	592.418	ug/L 98
42) Toluene	7.41	91	78742304m	7217.036	ug/L
51) Chlorobenzene	8.91	112	353808	49.704	ug/L 98
52) Ethylbenzene	9.04	91	30681271m	2538.802	ug/L
53) m,p-Xylene	9.18	106	39098605m	8689.336	ug/L
54) o-xylene	9.59	106	17951114m	4045.093	ug/L
56) Isopropylbenzene	9.96	105	1137689	95.411	ug/L 100

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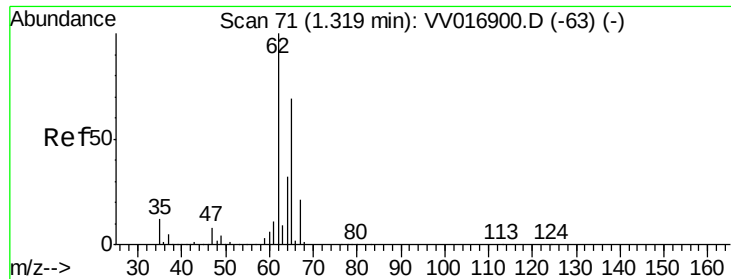
Manual Integrations
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6/15/2020 12:23:12 PM

Quant Time: Jun 13 07:18:13 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM060820WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Jun 13 06:09:05 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,2-Dichlorobenzene	11.67	146	29916	4.931	ug/L	96

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



#5

Vinyl chloride

Concen: 4.176 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV016911.D

Acq: 13 Jun 2020 04:53

Instrument :

MSVOA_V

ClientSampleId :

E3YG8MS

Tot Ion: 62 Resp: 11036

Ion Ratio Lower Upper

62 100

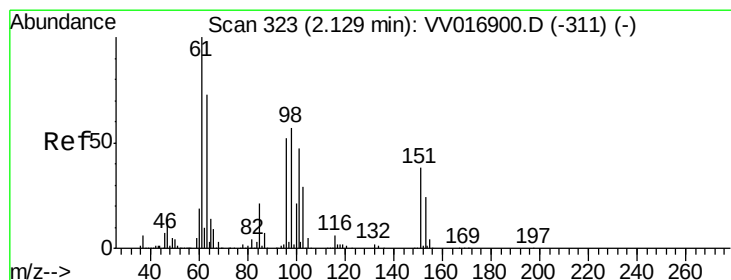
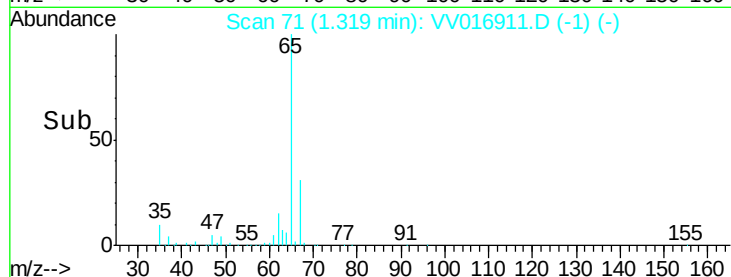
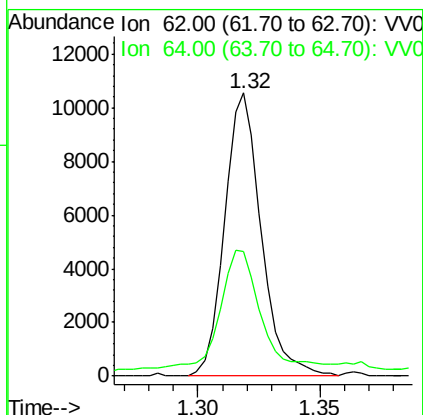
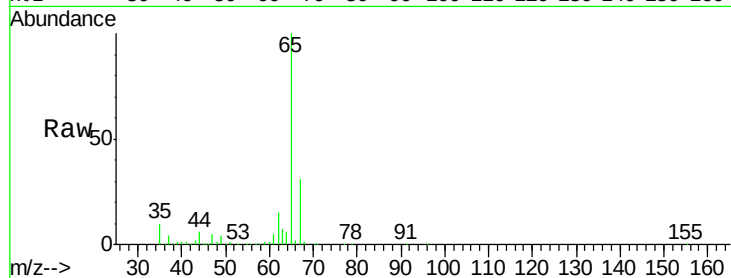
64 44.0 22.3 41.5#

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#12

1,1-Dichloroethene

Concen: 50.002 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.00 min

Lab File: VV016911.D

Acq: 13 Jun 2020 04:53

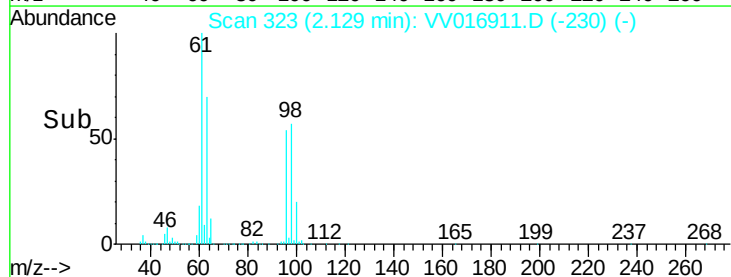
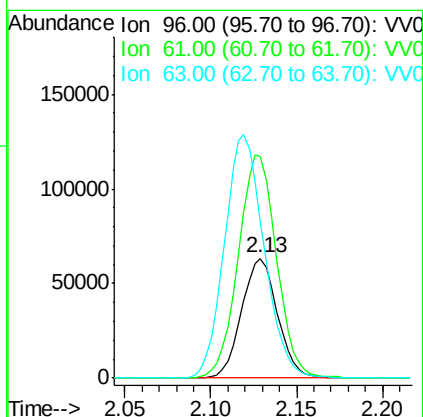
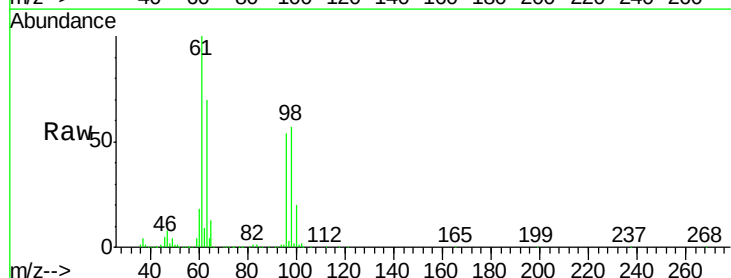
Tgt Ion: 96 Resp: 91994

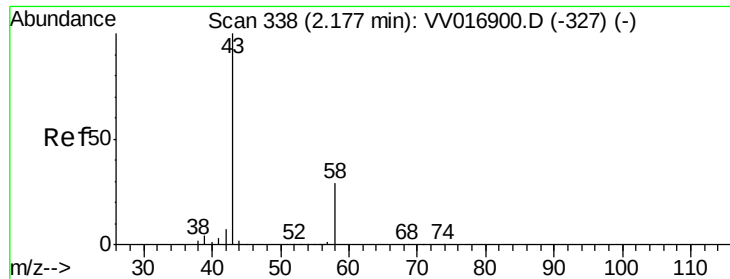
Ion Ratio Lower Upper

96 100

61 184.7 130.4 242.2

63 130.0 103.3 191.9





#13

Acetone

Concen: 2.827 ug/L

RT: 2.18 min Scan# 339

Delta R.T. 0.00 min

Lab File: VV016911.D

Acq: 13 Jun 2020 04:53

Instrument :

MSVOA_V

ClientSampleId :

E3YG8MS

Tot Ion: 43 Resp: 3606

Ion Ratio Lower Upper

43 100

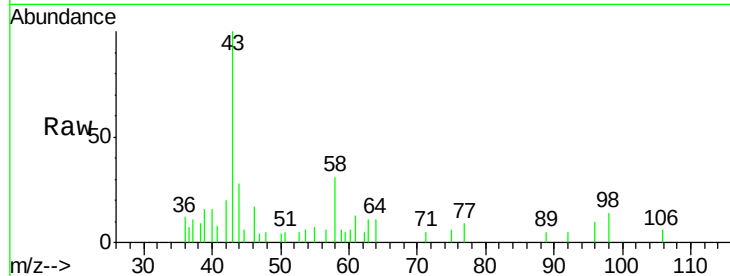
58 40.5 0.0 55.2

Manual Integrations

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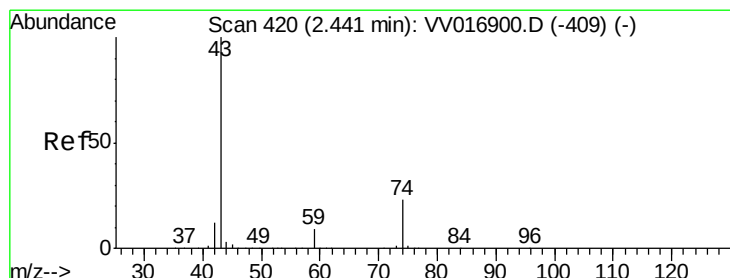
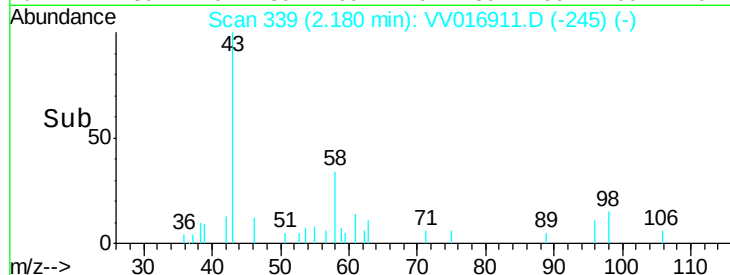
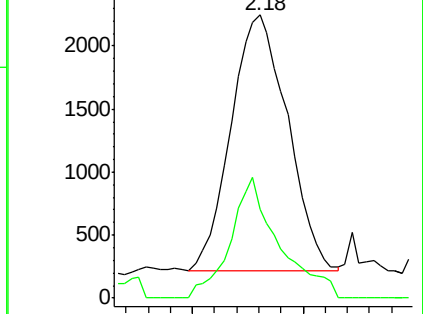
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Abundance Ion 43.00 (42.70 to 43.70): VV016911.D (-245) (-)

Ion 58.00 (57.70 to 58.70): VV016911.D (-245) (-)



#15

Methyl Acetate

Concen: 19.322 ug/L

RT: 2.44 min Scan# 420

Delta R.T. 0.00 min

Lab File: VV016911.D

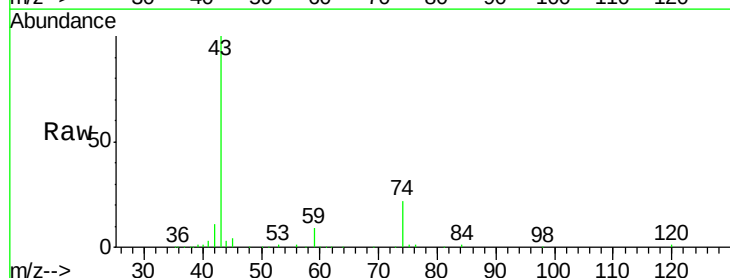
Acq: 13 Jun 2020 04:53

Tgt Ion: 43 Resp: 54932

Ion Ratio Lower Upper

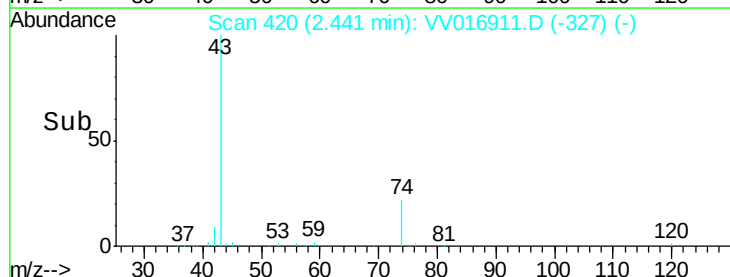
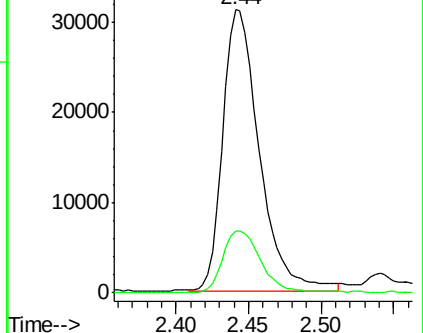
43 100

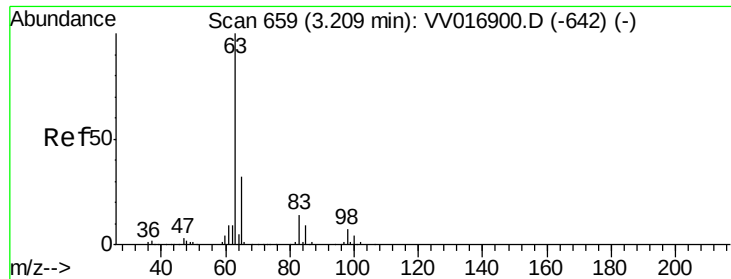
74 22.6 17.9 26.9



Abundance Ion 43.00 (42.70 to 43.70): VV016911.D (-327) (-)

Ion 74.00 (73.70 to 74.70): VV016911.D (-327) (-)





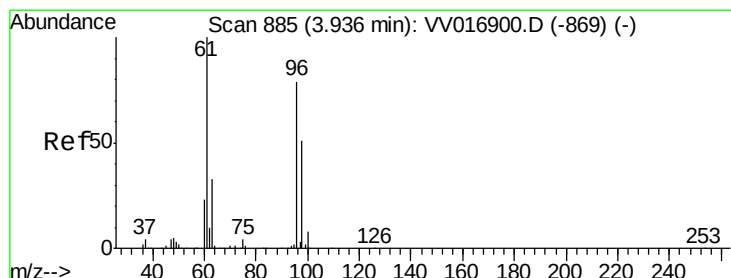
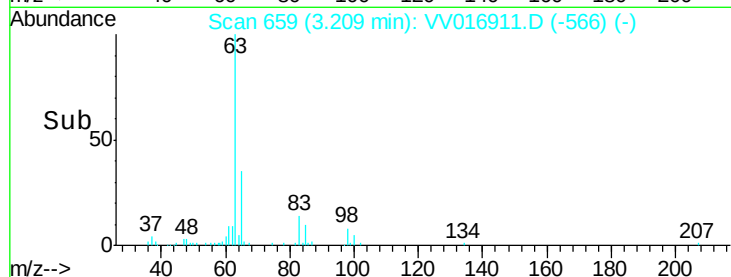
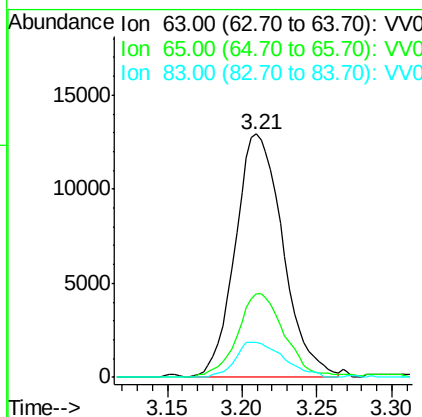
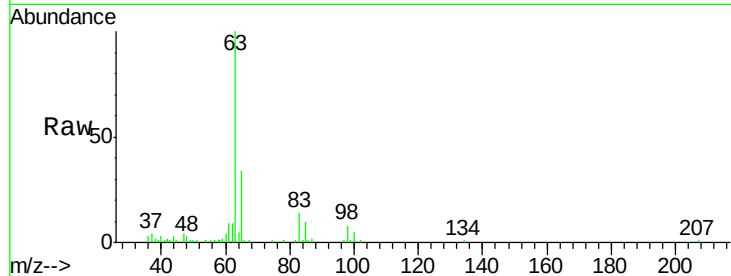
#19
 1,1-Dichloroethane
 Concen: 6.083 ug/L
 RT: 3.21 min Scan# 659
 Delta R.T. 0.00 min
 Lab File: VV016911.D
 Acq: 13 Jun 2020 04:53

Instrument :
 MSVOA_V
 ClientSampleId :
 E3YG8MS

Tot Ion	63	Resp	28722
Ion	Ratio	Lower	Upper
63	100		
65	34.2	23.2	43.0
83	14.3	10.0	18.6

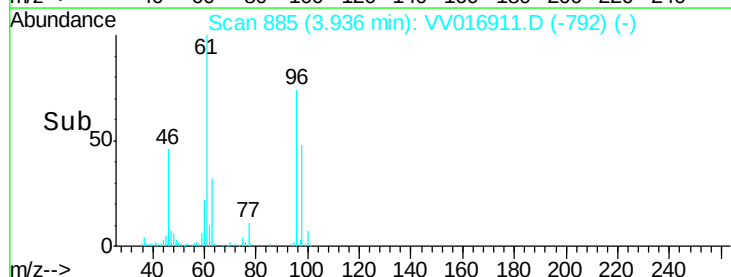
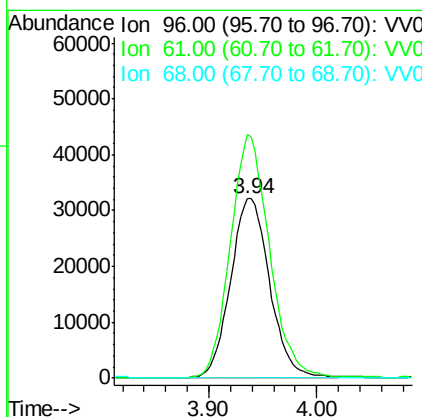
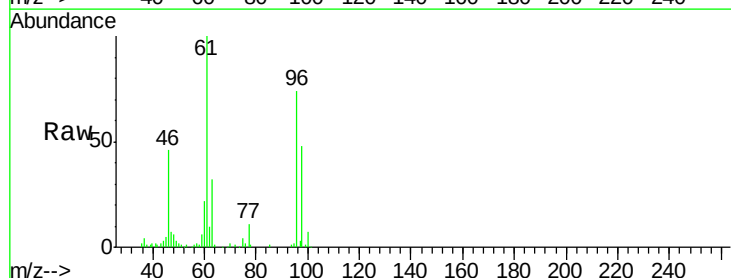
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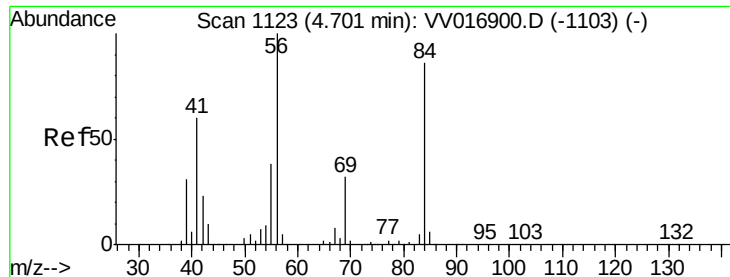
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#20
 cis-1,2-Dichloroethene
 Concen: 29.736 ug/L
 RT: 3.94 min Scan# 885
 Delta R.T. 0.00 min
 Lab File: VV016911.D
 Acq: 13 Jun 2020 04:53

Tgt Ion	96	Resp	81321
Ion	Ratio	Lower	Upper
96	100		
61	135.7	93.4	173.4
68	0.0	0.0	0.0





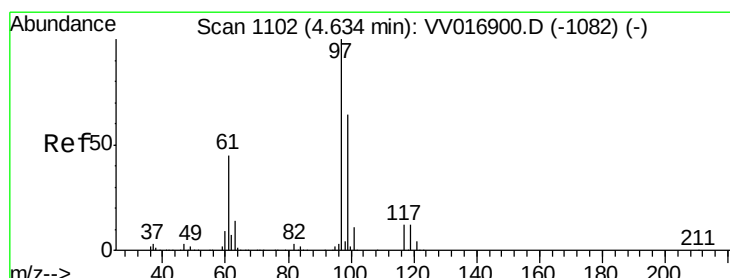
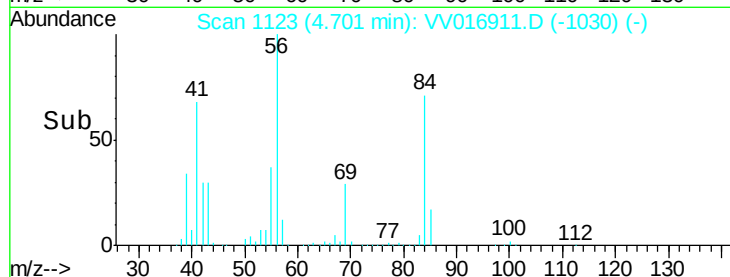
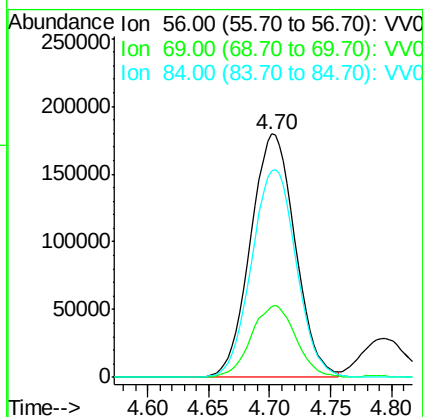
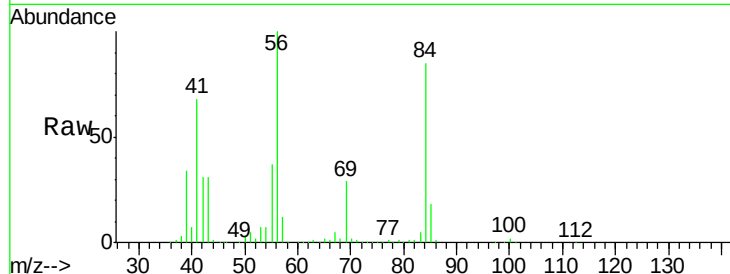
#29
Cyclohexane
Concen: 104.698 ug/L
RT: 4.70 min Scan# 1123
Delta R.T. 0.00 min
Lab File: VV016911.D
Acq: 13 Jun 2020 04:53

Instrument :
MSVOA_V
ClientSampleId :
E3YG8MS

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.7	25.0	37.4
84	85.8	69.5	104.3

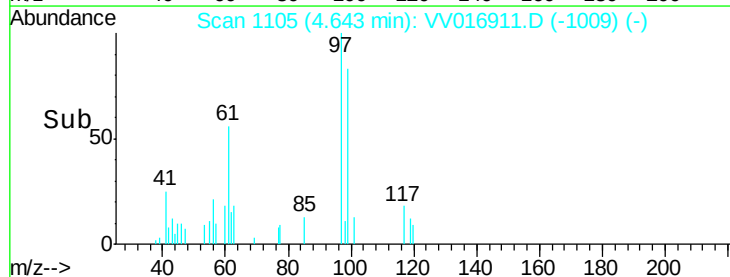
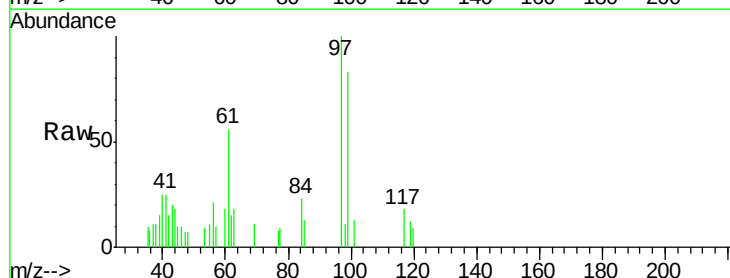
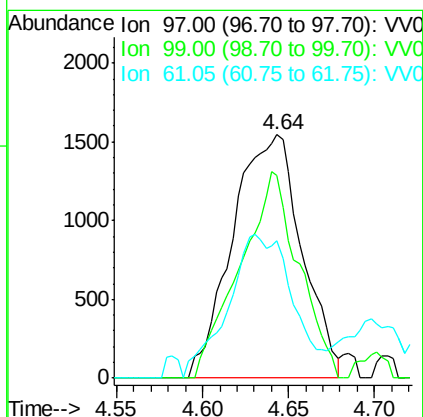
Manual Integrations
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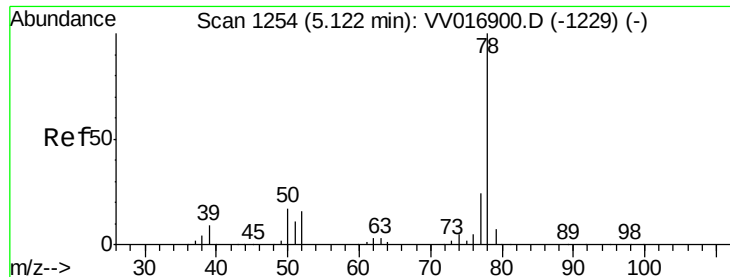
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#30
1,1,1-Trichloroethane
Concen: 0.969 ug/L
RT: 4.64 min Scan# 1105
Delta R.T. 0.01 min
Lab File: VV016911.D
Acq: 13 Jun 2020 04:53

Tgt Ion	Ratio	Lower	Upper
97	100		
99	72.1	51.3	76.9
61	33.2	36.7	55.1#





#33

Benzene

Concen: 46.182 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VV016911.D

Acq: 13 Jun 2020 04:53

Instrument :

MSVOA_V

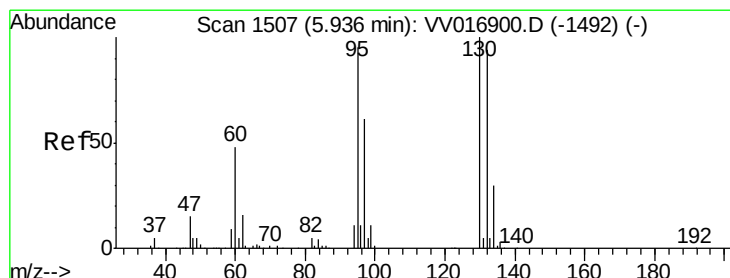
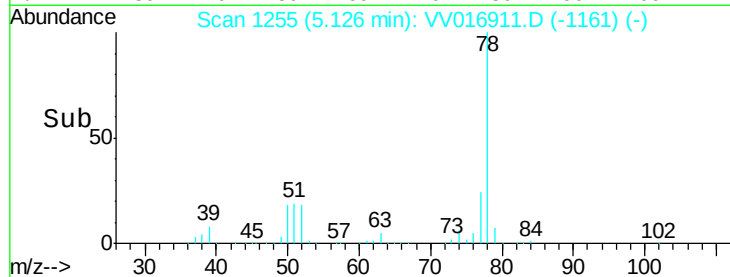
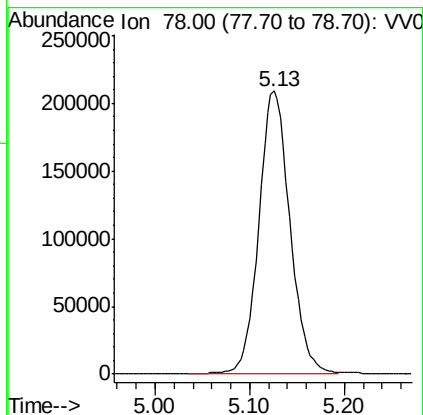
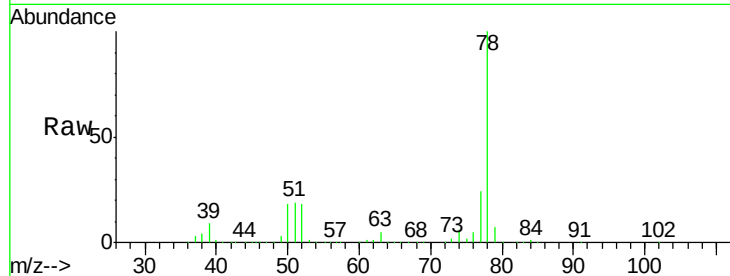
ClientSampleId :

E3YG8MS

Tgt Ion: 78 Resp: 477978

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#34

Trichloroethene

Concen: 47.629 ug/L

RT: 5.94 min Scan# 1508

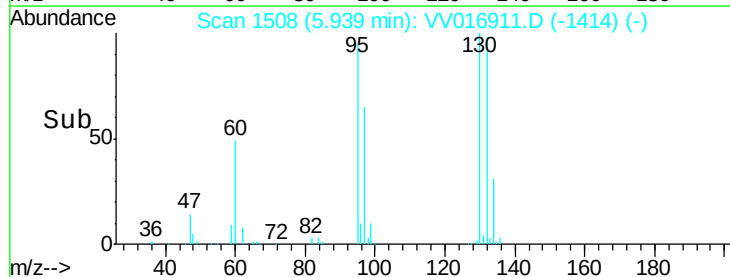
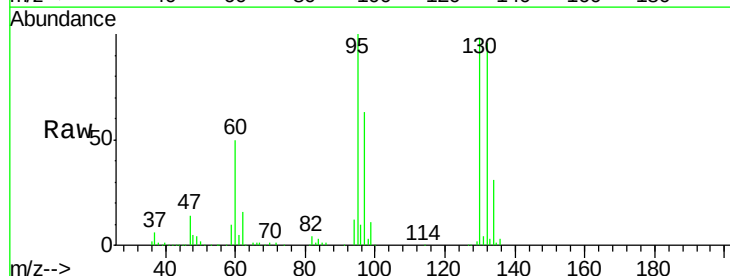
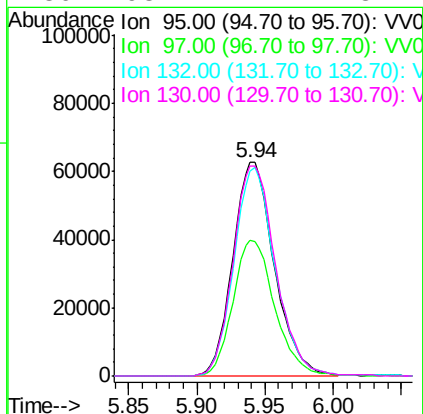
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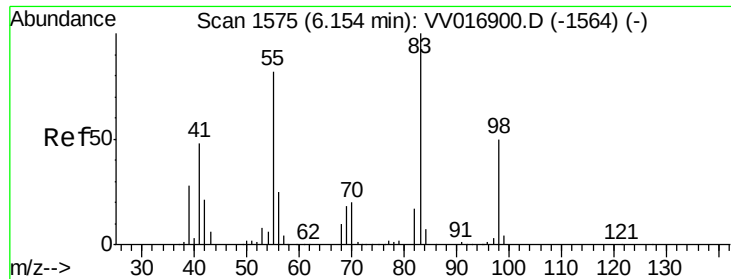
Lab File: VV016911.D

Acq: 13 Jun 2020 04:53

Tgt Ion: 95 Resp: 132206

Ion	Ratio	Lower	Upper
95	100		
97	63.4	44.3	82.3
132	96.1	67.9	126.1
130	98.1	72.2	134.2





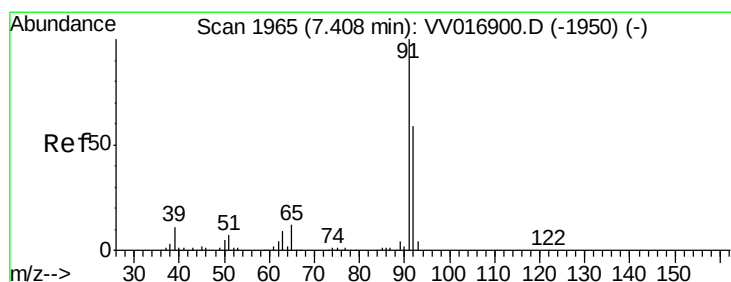
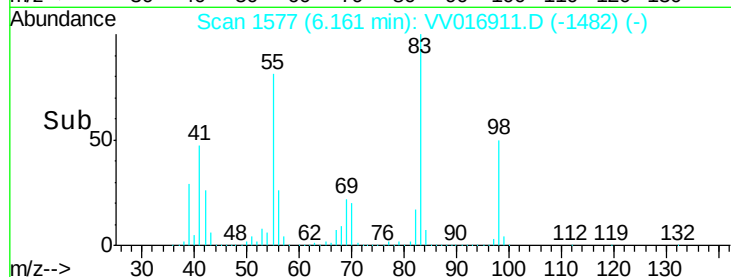
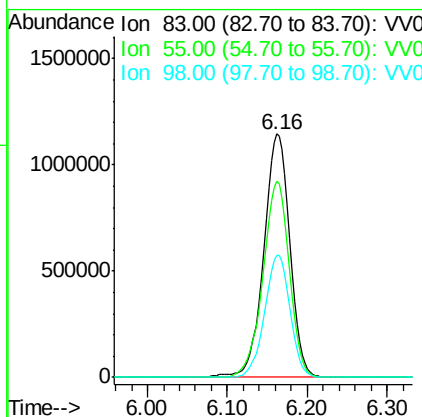
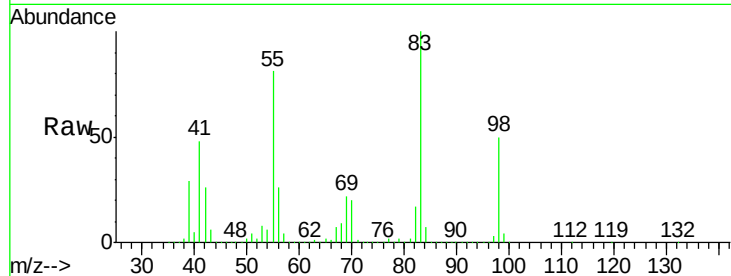
#35
Methylvlcyclohexane
Concen: 592.418 ug/L
RT: 6.16 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VV016911.D
Acq: 13 Jun 2020 04:53

Instrument :
MSVOA_V
ClientSampleId :
E3YG8MS

Tot Ion: 83 Resp: 2579740
Ion Ratio Lower Upper
83 100
55 81.5 64.2 96.2
98 48.9 40.3 60.5

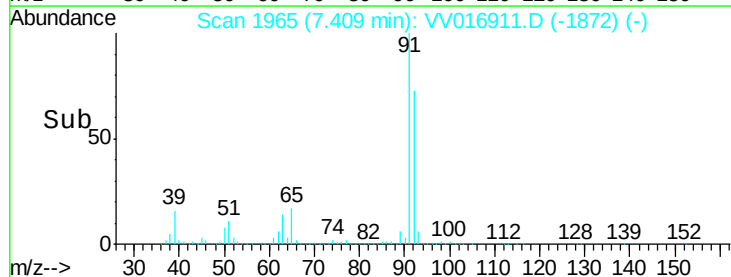
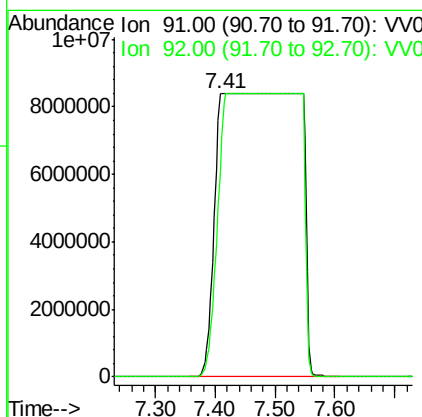
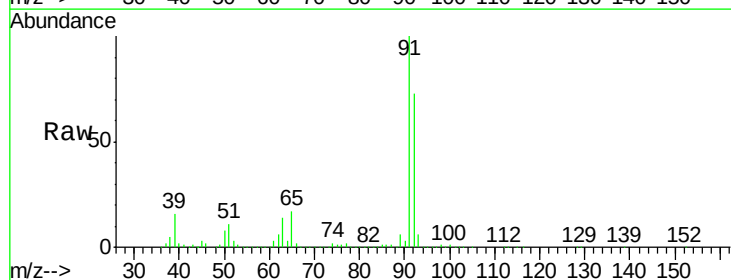
Manual Integrations
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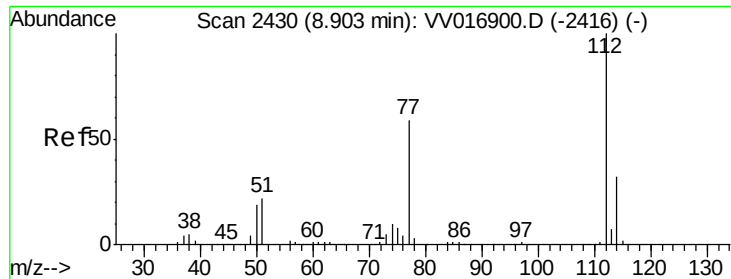
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#42
Toluene
Concen: 7217.036 ug/L m
RT: 7.41 min Scan# 1965
Delta R.T. 0.00 min
Lab File: VV016911.D
Acq: 13 Jun 2020 04:53

Tgt Ion: 91 Resp: 78742304
Ion Ratio Lower Upper
91 100
92 72.7 40.4 75.0





#51

Chlorobenzene

Concen: 49.704 ug/L

RT: 8.91 min Scan# 2433

Delta R.T. 0.01 min

Lab File: VV016911.D

Acq: 13 Jun 2020 04:53

Instrument :

MSVOA_V

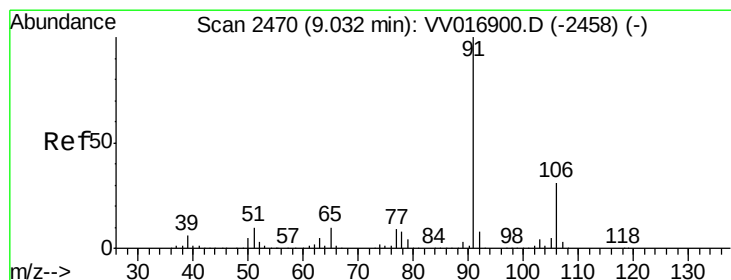
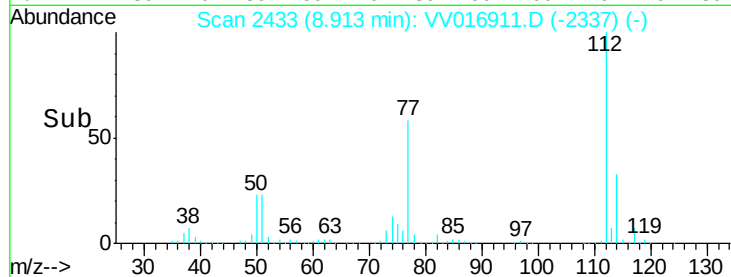
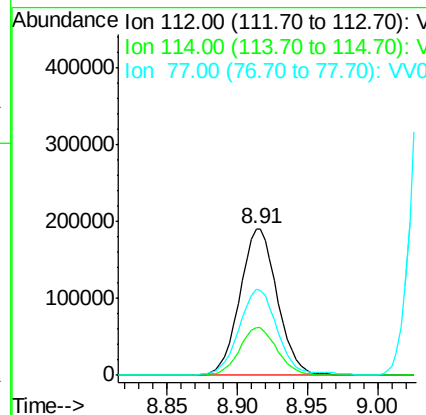
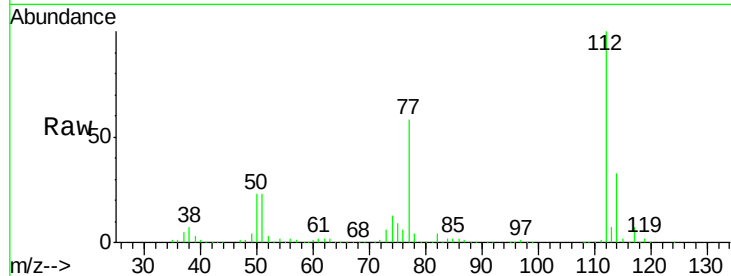
ClientSampleId :

E3YG8MS

Tot Ion:	112	Resp:	353808
Ion Ratio	Lower	Upper	
112	100		
114	32.9	22.3	41.3
77	58.3	47.9	71.9

Manual Integrations
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#52

Ethylbenzene

Concen: 2538.802 ug/L m

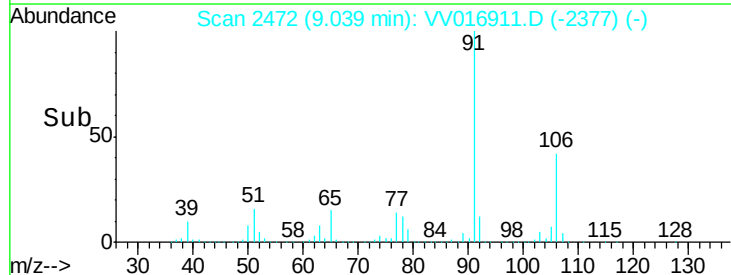
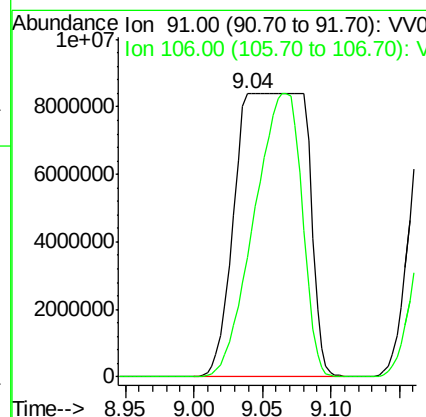
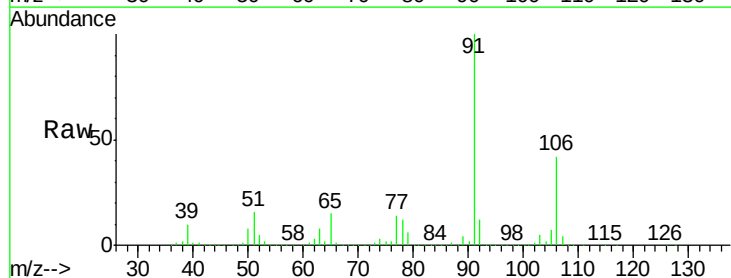
RT: 9.04 min Scan# 2472

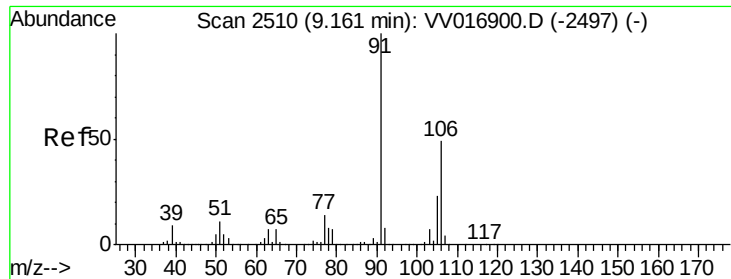
Delta R.T. 0.01 min

Lab File: VV016911.D

Acq: 13 Jun 2020 04:53

Tgt Ion:	91	Resp:	30681271
Ion Ratio	Lower	Upper	
91	100		
106	42.1	21.1	39.1#





#53

m,p-Xylene

Concen: 8689.336 ug/L m

RT: 9.18 min Scan# 2516

Delta R.T. 0.02 min

Lab File: VV016911.D

Acq: 13 Jun 2020 04:53

Instrument :

MSVOA_V

ClientSampleId :

E3YG8MS

Tot Ion:106 Resp:39098605

Ion Ratio Lower Upper

106 100

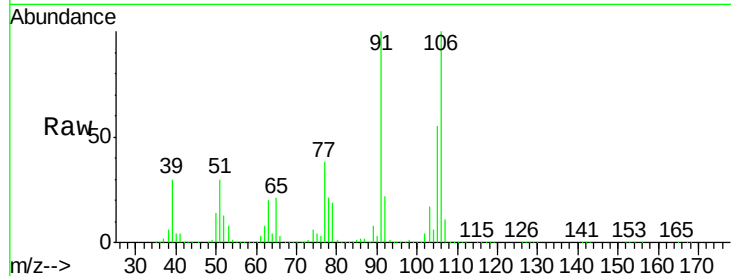
91 100.0 144.6 268.6#

Manual Integrations

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0

8000000

6000000

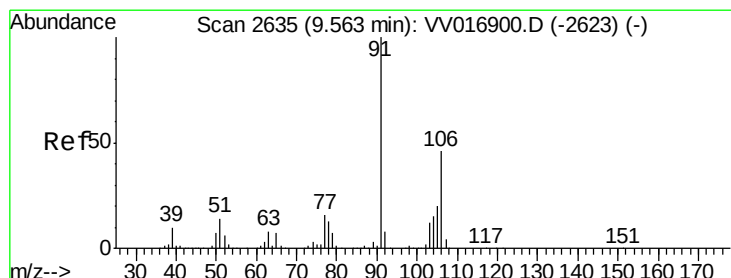
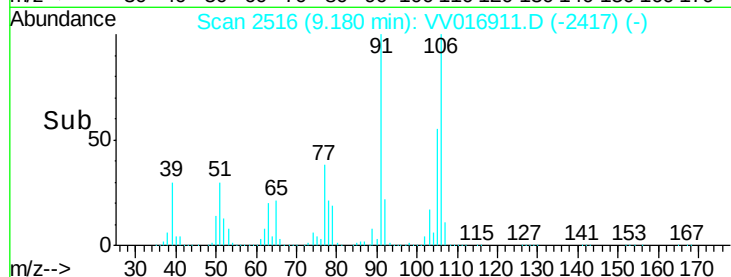
4000000

2000000

0

9.10 9.18 9.20 9.30

Time-->



#54

o-xylene

Concen: 4045.093 ug/L m

RT: 9.59 min Scan# 2644

Delta R.T. 0.03 min

Lab File: VV016911.D

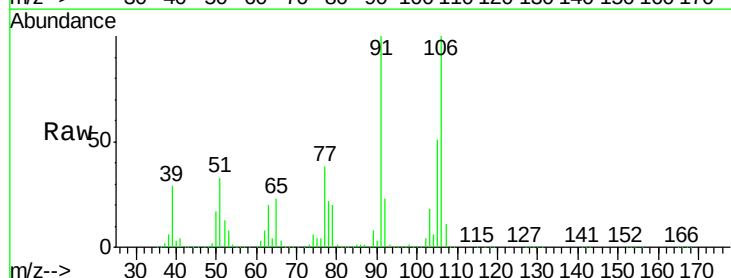
Acq: 13 Jun 2020 04:53

Tgt Ion:106 Resp:17951114

Ion Ratio Lower Upper

106 100

91 100.0 155.9 289.5#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0

8000000

6000000

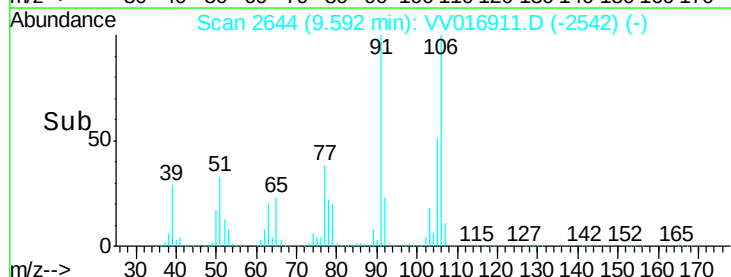
4000000

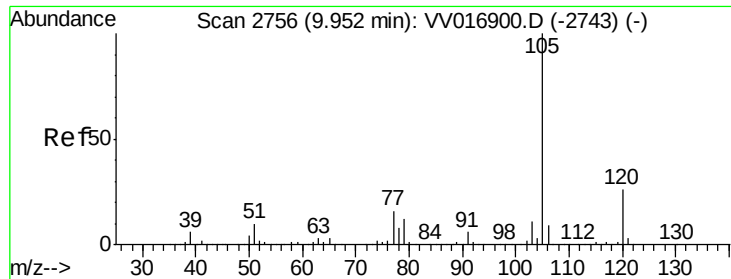
2000000

0

9.50 9.55 9.60 9.65

Time-->





#56

Isopropylbenzene

Concen: 95.411 ug/L

RT: 9.96 min Scan# 2758

Delta R.T. 0.01 min

Lab File: VV016911.D

Acq: 13 Jun 2020 04:53

Instrument :

MSVOA_V

ClientSampleId :

E3YG8MS

Tot Ion:105 Resp: 1137689

Ion Ratio Lower Upper

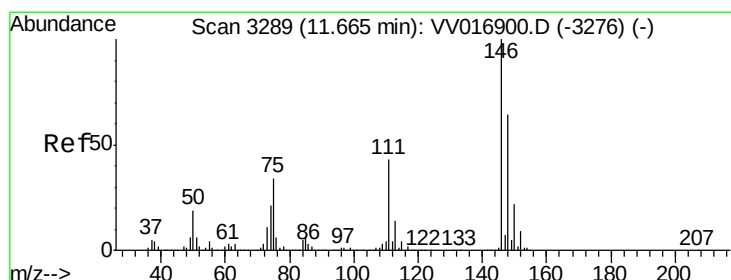
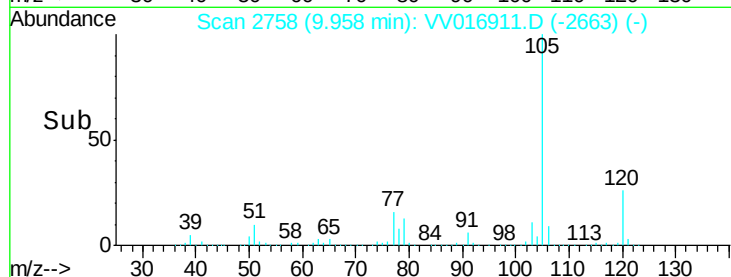
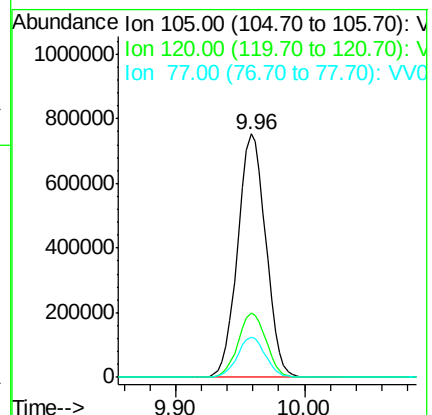
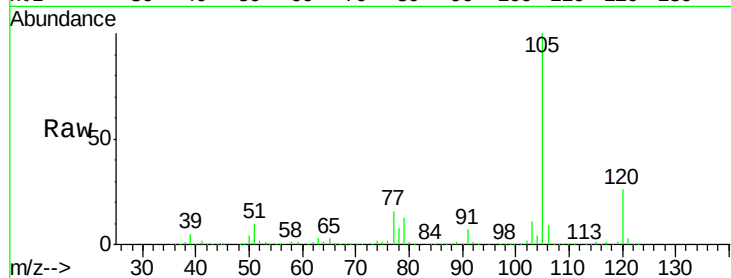
105 100

120 26.4 21.2 31.8

77 16.4 13.0 19.4

Manual Integrations
APPROVED

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#65

1,2-Dichlorobenzene

Concen: 4.931 ug/L

RT: 11.67 min Scan# 3290

Delta R.T. 0.00 min

Lab File: VV016911.D

Acq: 13 Jun 2020 04:53

Tgt Ion:146 Resp: 29916

Ion Ratio Lower Upper

146 100

111 44.9 33.7 50.5

148 66.3 50.7 76.1

