

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091420\
 Data File : VL035615.D
 Acq On : 15 Sep 2020 1:26
 Operator : SY/AP
 Sample : L3983-05 20X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-11A

Manual Integrations
 APPROVED

MMDadoda
 9/17/2020 5:40:57 PM

Quant Time: Sep 17 16:08:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 2020
 QLast Update : Mon Sep 14 15:19:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	984365	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	4377118	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.09	117	4333762	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	3238420	10.52	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.24	62	22179	0.308	ppbv	99
9) Propene	3.00	41	438626	10.451	ppbv	93
10) Heptane	8.11	43	15131m	0.134	ppbv	
13) Ethanol	3.60	45	23000	2.210	ppbv	93
15) Acetone	3.83	43	1303243	12.004	ppbv	97
17) tert-Butyl alcohol	4.31	59	15557	0.118	ppbv	95
18) 1,1-Dichloroethene	4.27	96	20124	0.243	ppbv	96
19) Isopropyl Alcohol	3.98	45	12037m	0.186	ppbv	
20) Methylene Chloride	4.33	84	34159	0.422	ppbv	93
22) trans-1,2-Dichloroethene	4.87	96	53214	0.605	ppbv	96
26) Hexane	5.68	57	35193	0.324	ppbv #	45
27) Carbon Disulfide	4.54	76	32917	0.211	ppbv #	91
29) Chloroform	5.74	83	57706	0.261	ppbv	99
30) Cyclohexane	7.12	84	16097	0.138	ppbv #	23
31) cis-1,2-Dichloroethene	5.53	61	1794169	16.092	ppbv	99
34) 2-Butanone	5.24	43	116500	0.897	ppbv	97
36) Benzene	6.88	78	61633m	0.218	ppbv	
38) Trichloroethene	7.83	130	3046135	18.508	ppbv	96
44) 2,2,4-Trimethylpentane	7.86	57	141577	0.380	ppbv #	79
52) Tetrachloroethene	11.22	164	11390227m	68.813	ppbv	
53) Toluene	9.80	91	120478	0.338	ppbv	97
59) m/p-Xylene	12.97	91	94915	0.254	ppbv	97
60) o-Xylene	13.69	91	37578	0.100	ppbv	92

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

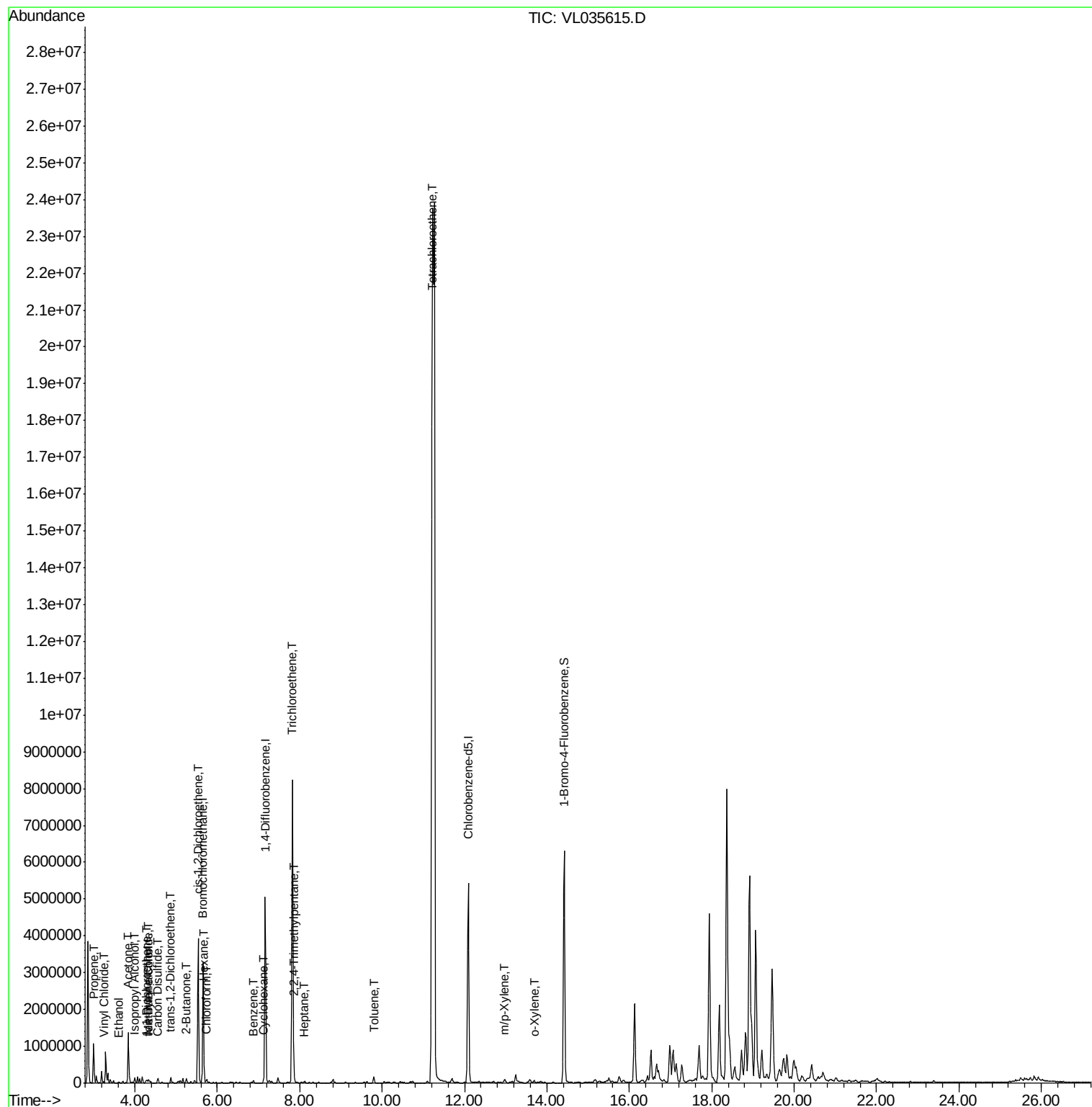
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091420\
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

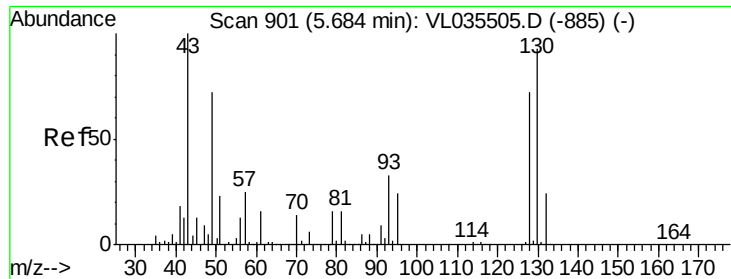
Instrument :
MSVOA_L
ClientSampleId :
SV-11A

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Quant Time: Sep 17 16:08:17 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep
QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL035615.D

Acq: 15 Sep 2020 1:26

Instrument :

MSVOA_L

ClientSampleId :

SV-11A

Tot Ion: 49 Resp: 984365

Ion Ratio Lower Upper

49 100

128 97.7 50.0 150.1

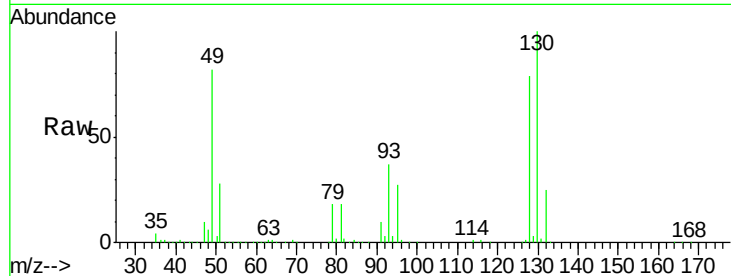
130 124.6 64.4 193.2

Manual Integrations

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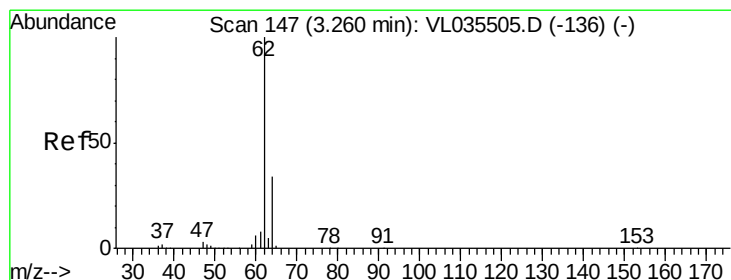
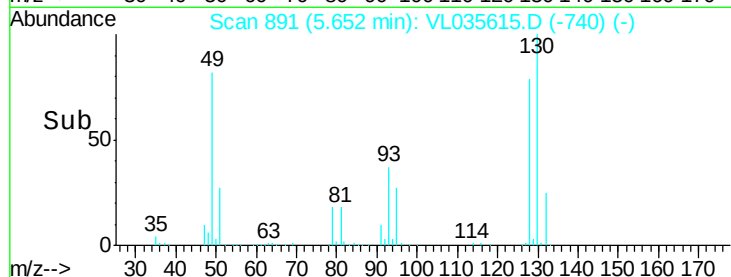
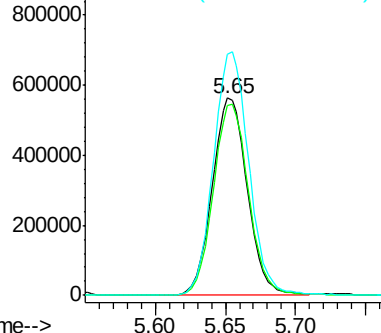
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#5

Vinyl Chloride

Concen: 0.308 ppbv

RT: 3.24 min Scan# 142

Delta R.T. -0.00 min

Lab File: VL035615.D

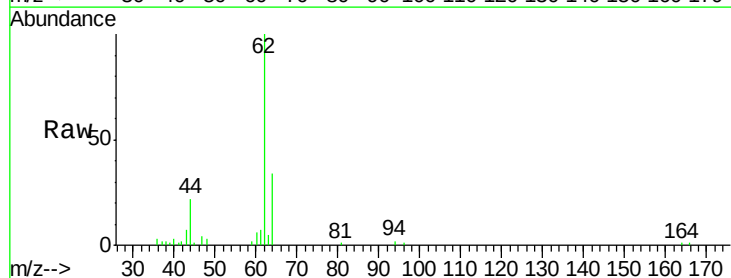
Acq: 15 Sep 2020 1:26

Tgt Ion: 62 Resp: 22179

Ion Ratio Lower Upper

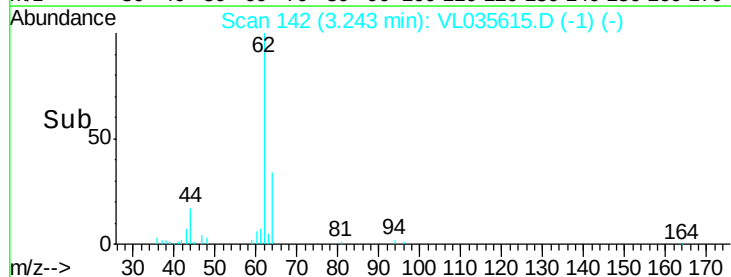
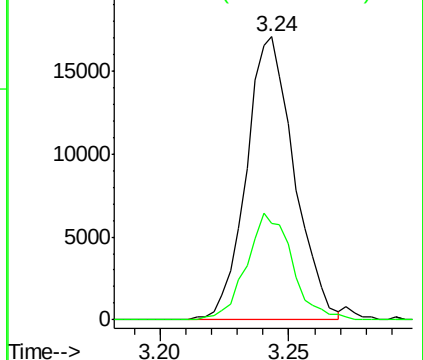
62 100

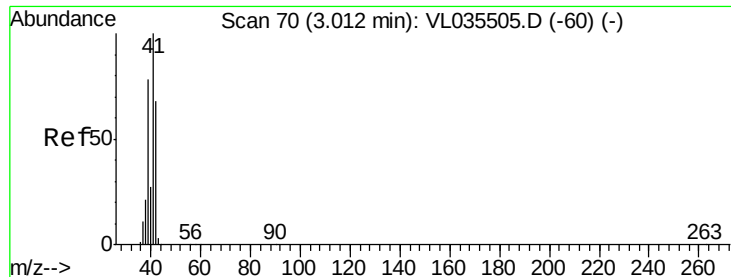
64 33.9 27.4 41.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#9

Propene

Concen: 10.451 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.00 min

Lab File: VL035615.D

Acq: 15 Sep 2020 1:26

Instrument :

MSVOA_L

ClientSampleId :

SV-11A

Tot Ion: 41 Resp: 438626

Ion Ratio Lower Upper

41 100

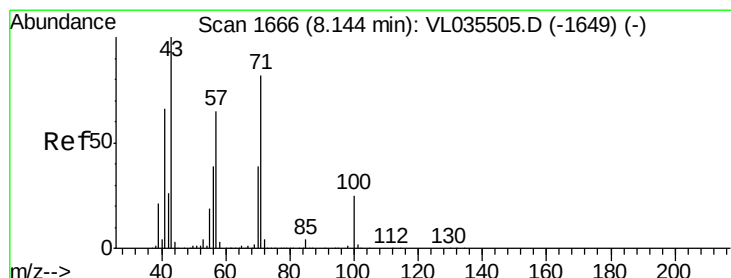
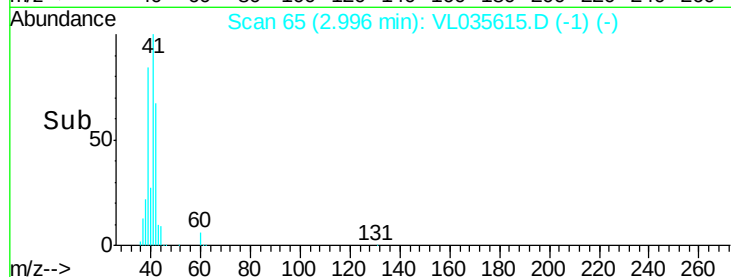
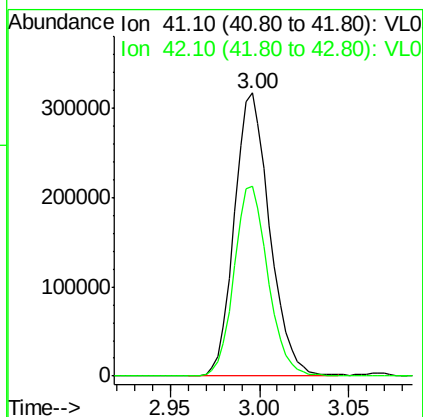
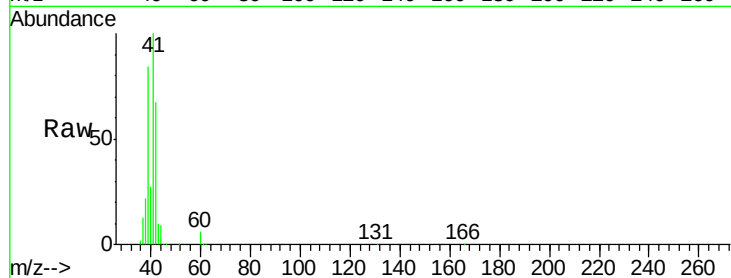
42 64.5 56.3 84.5

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#10

Heptane

Concen: 0.134 ppbv m

RT: 8.11 min Scan# 1656

Delta R.T. -0.02 min

Lab File: VL035615.D

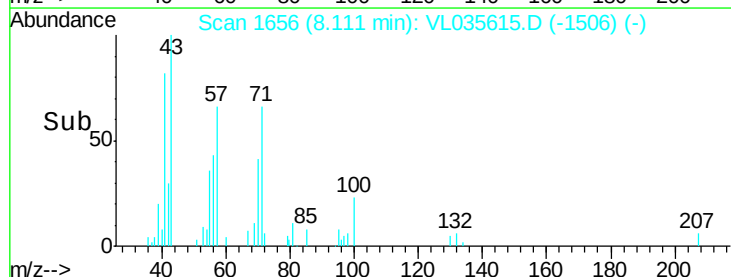
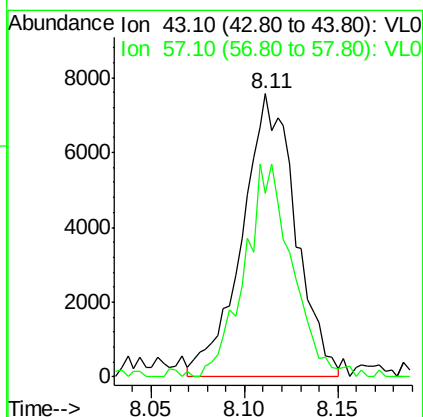
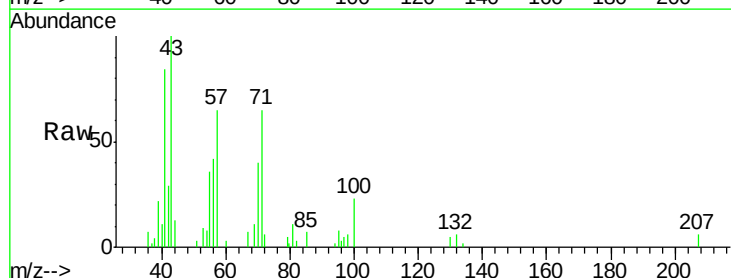
Acq: 15 Sep 2020 1:26

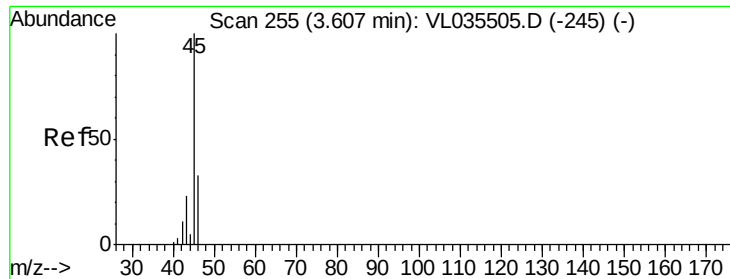
Tgt Ion: 43 Resp: 15131

Ion Ratio Lower Upper

43 100

57 0.0 51.4 77.0#





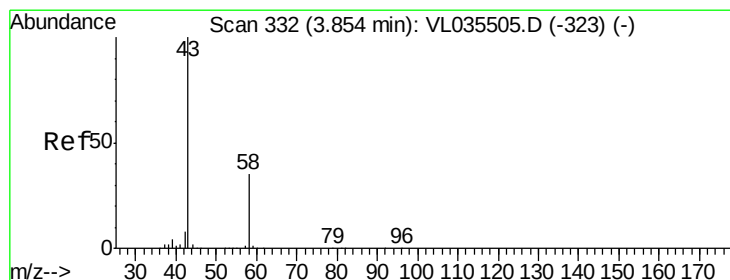
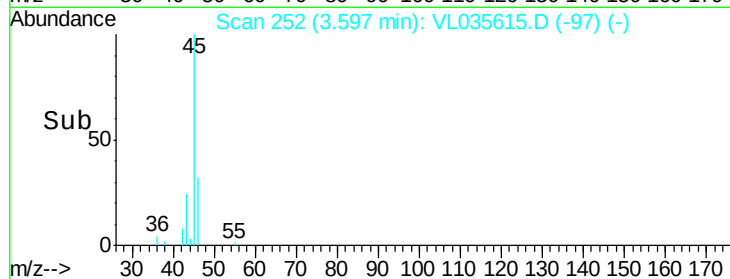
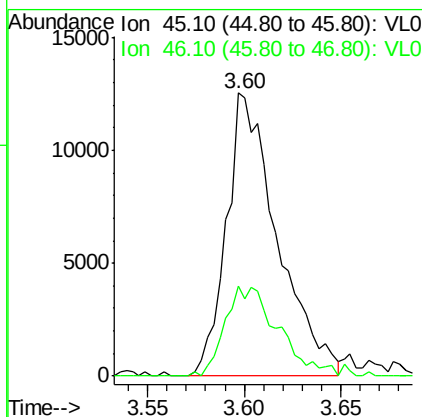
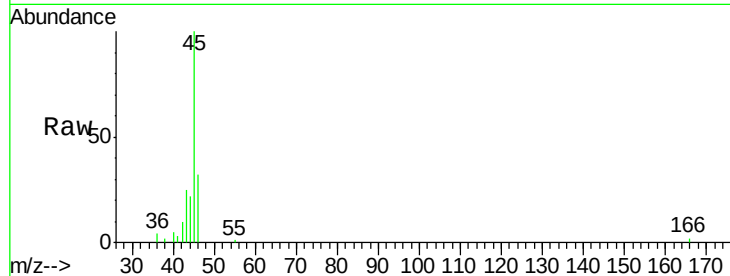
#13
Ethanol
Concen: 2.210 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.00 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument :
MSVOA_L
ClientSampled :
SV-11A

Tot Ion: 45 Resp: 23000
Ion Ratio Lower Upper
45 100
46 33.5 15.2 60.6

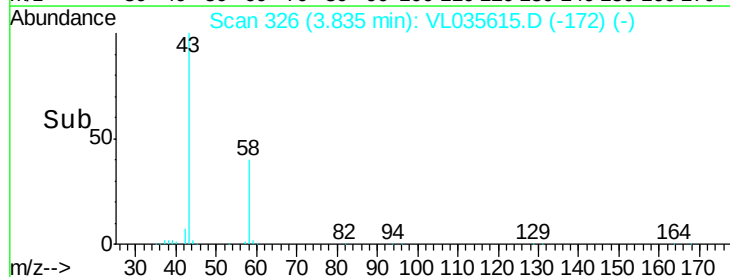
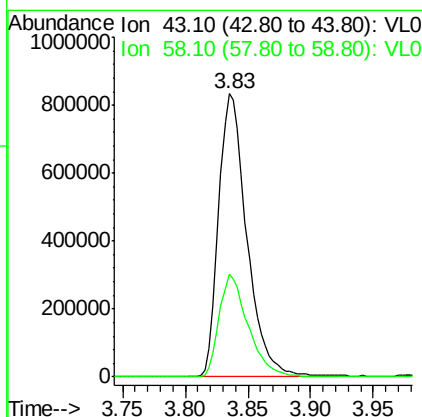
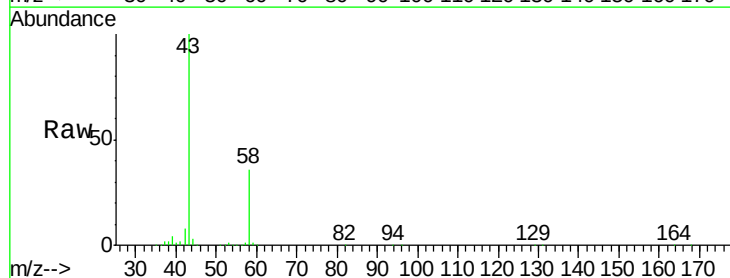
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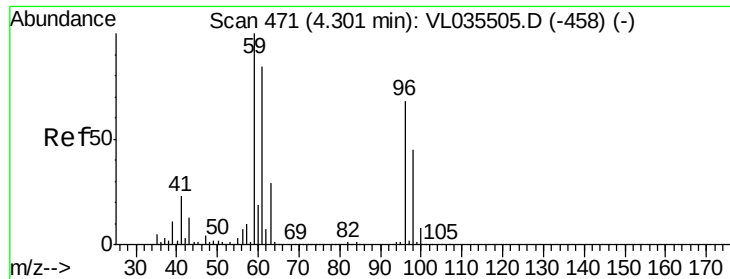
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#15
Acetone
Concen: 12.004 ppbv
RT: 3.83 min Scan# 326
Delta R.T. -0.00 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion: 43 Resp: 1303243
Ion Ratio Lower Upper
43 100
58 37.3 28.4 42.6





#17

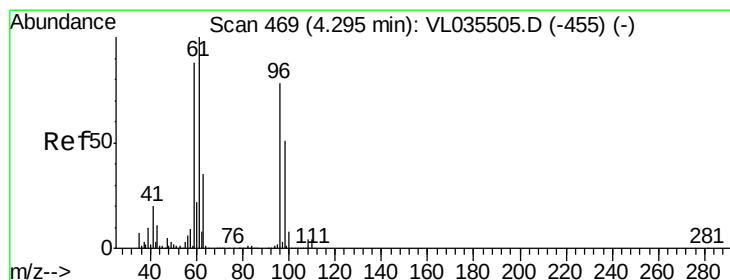
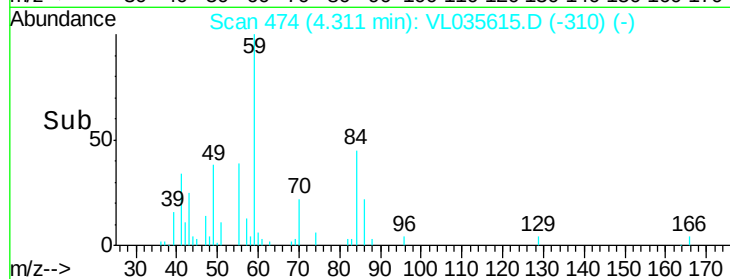
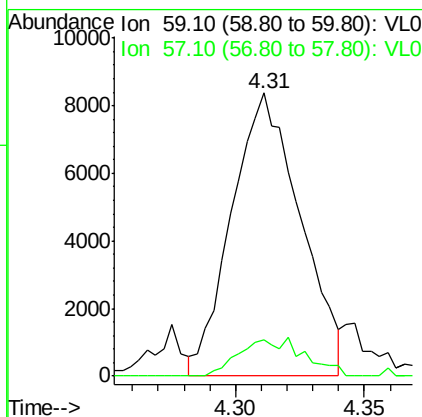
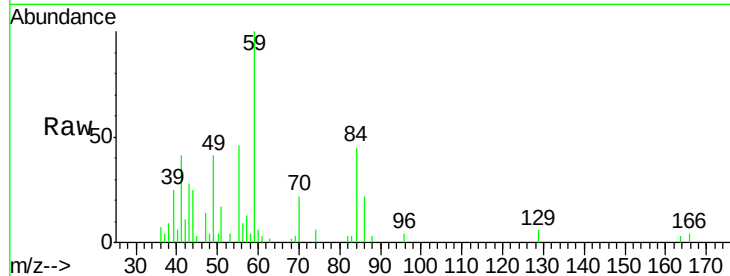
tert-Butyl alcohol
Concen: 0.118 ppbv
RT: 4.31 min Scan# 474
Delta R.T. 0.03 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument :
MSVOA_L
ClientSampleId :
SV-11A

Tot Ion	Ion	Ratio	Resp	Lower	Upper
59	100		15557		
57	12.5		8.4	12.6	

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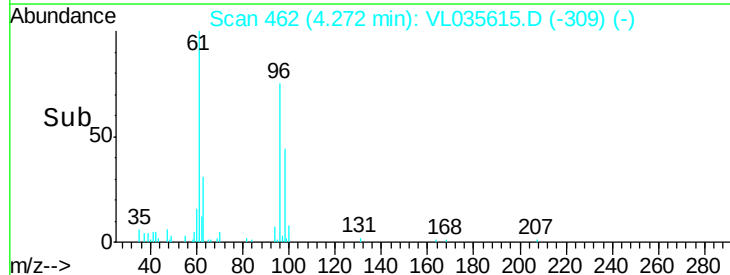
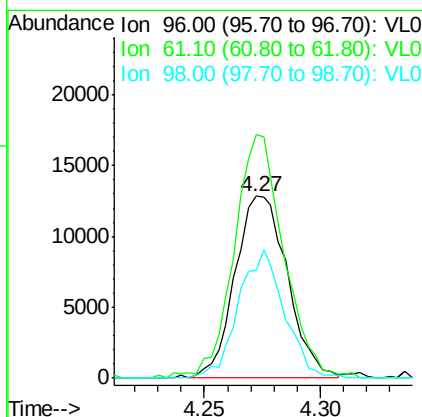
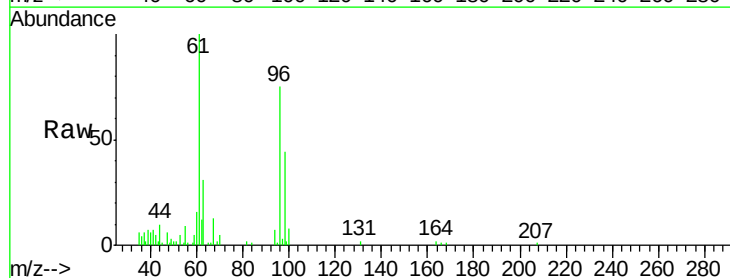
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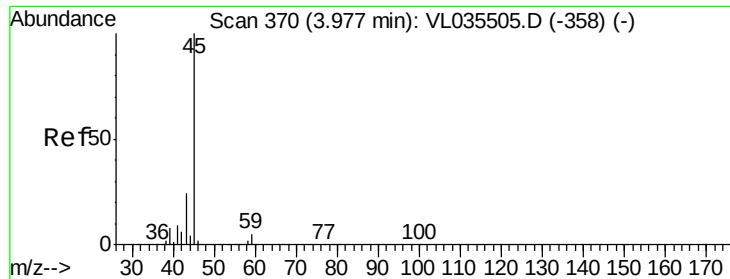


#18

1,1-Dichloroethene
Concen: 0.243 ppbv
RT: 4.27 min Scan# 462
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
96	100		20124		
61	131.5		103.0	154.6	
98	59.3		52.8	79.2	





#19

Isopropyl Alcohol

Concen: 0.186 ppbv m

RT: 3.98 min Scan# 370

Delta R.T. 0.02 min

Lab File: VL035615.D

Acq: 15 Sep 2020 1:26

Instrument :

MSVOA_L

ClientSampled :

SV-11A

Tot Ion: 45 Resp: 12037

Ion Ratio Lower Upper

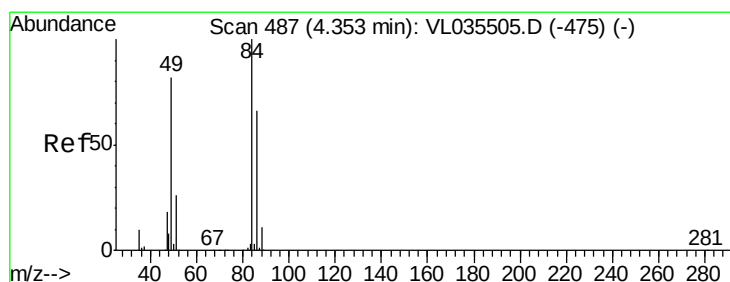
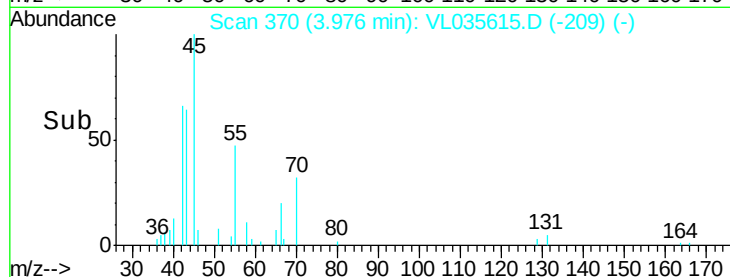
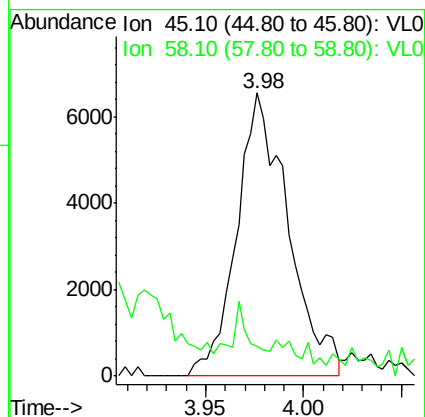
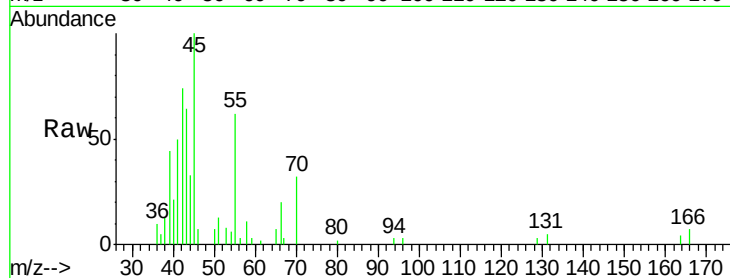
45 100

58 0.0 2.0 3.0#

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#20

Methylene Chloride

Concen: 0.422 ppbv

RT: 4.33 min Scan# 480

Delta R.T. -0.01 min

Lab File: VL035615.D

Acq: 15 Sep 2020 1:26

Tgt Ion: 84 Resp: 34159

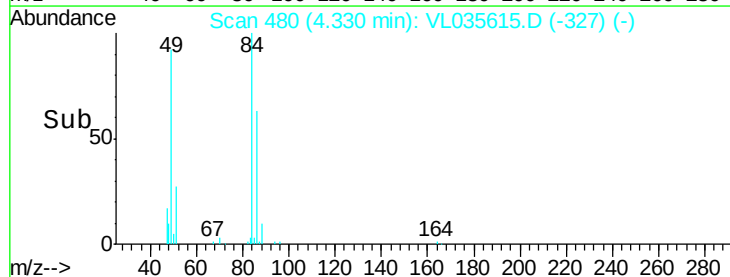
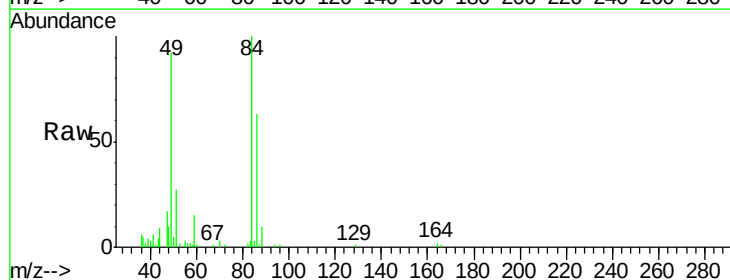
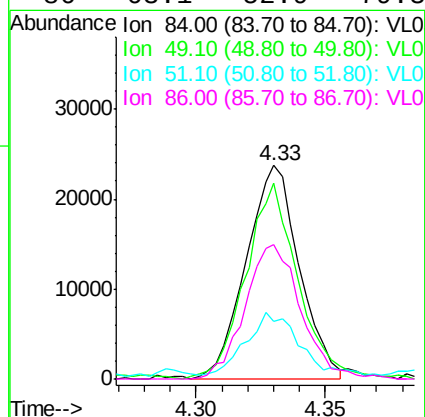
Ion Ratio Lower Upper

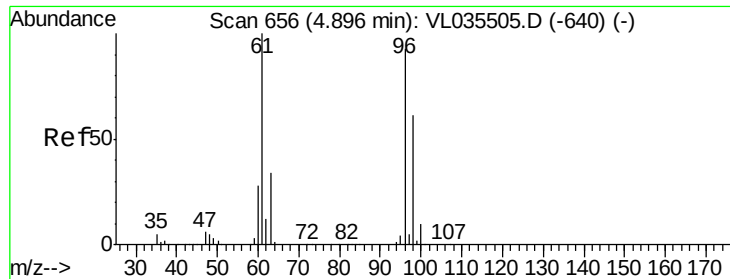
84 100

49 90.9 65.4 98.0

51 24.4 21.5 32.3

86 63.1 52.9 79.3





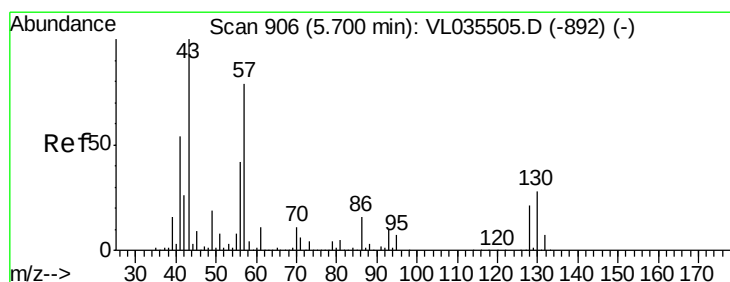
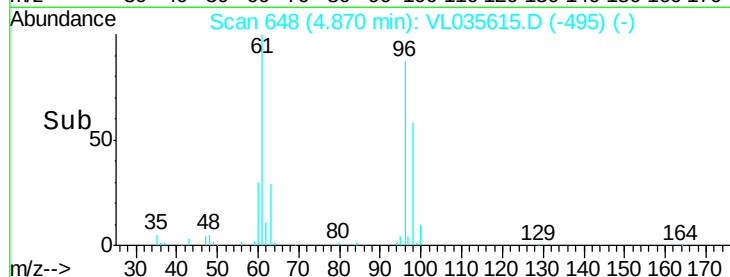
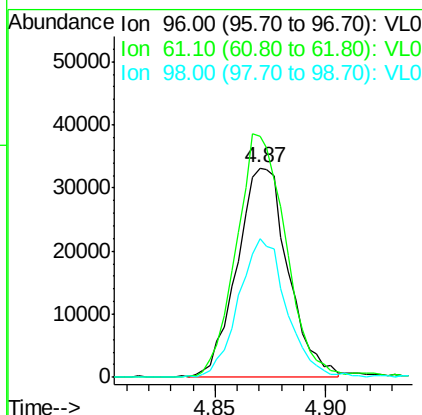
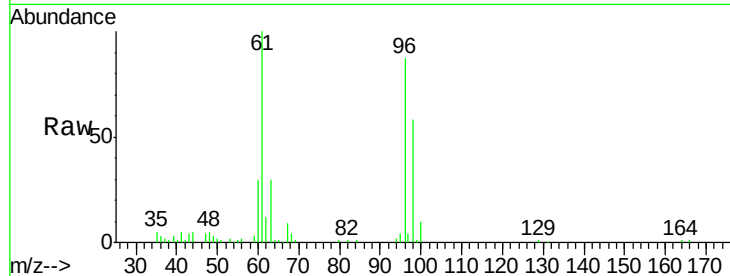
#22
trans-1,2-Dichloroethene
Concen: 0.605 ppbv
RT: 4.87 min Scan# 648
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument :
MSVOA_L
ClientSampled :
SV-11A

Tot Ion	Ion	Ratio	Lower	Upper
96	100			
61	114.5	86.0	129.0	
98	65.6	52.3	78.5	

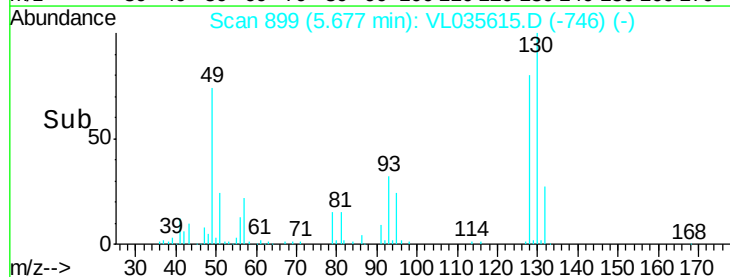
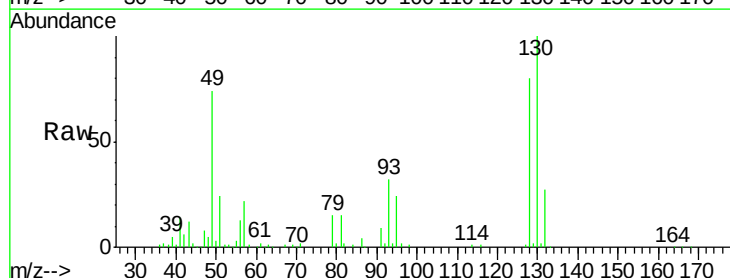
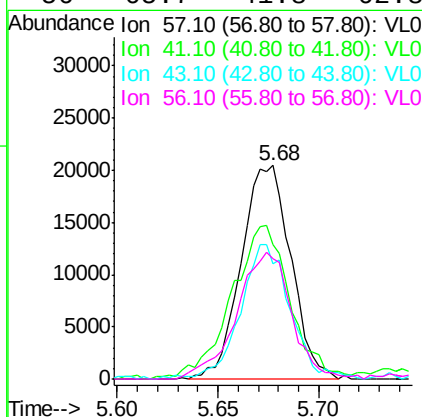
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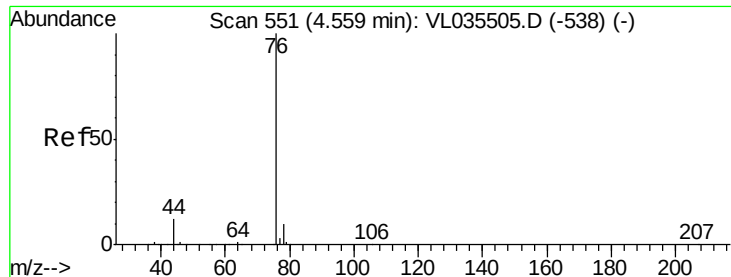
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#26
Hexane
Concen: 0.324 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	84.6	55.9	83.9#	
43	64.0	141.8	212.8#	
56	65.7	41.8	62.8#	





#27

Carbon Disulfide

Concen: 0.211 ppbv

RT: 4.54 min Scan# 544

Delta R.T. -0.01 min

Lab File: VL035615.D

Acq: 15 Sep 2020 1:26

Instrument :

MSVOA_L

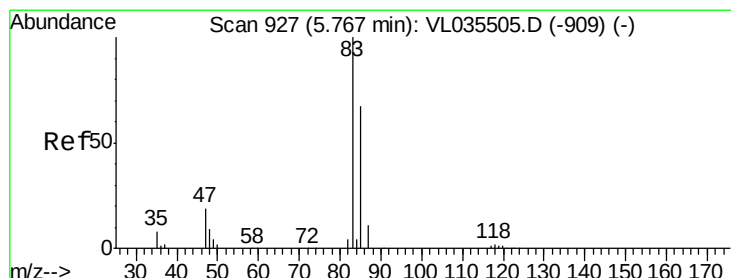
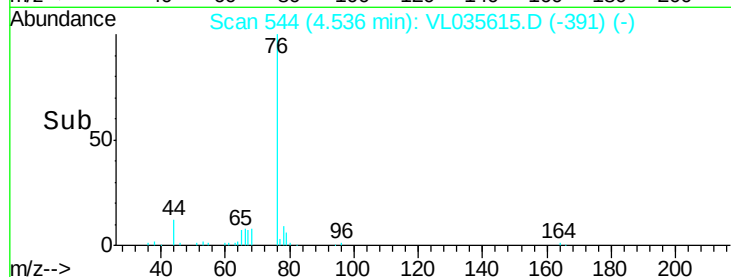
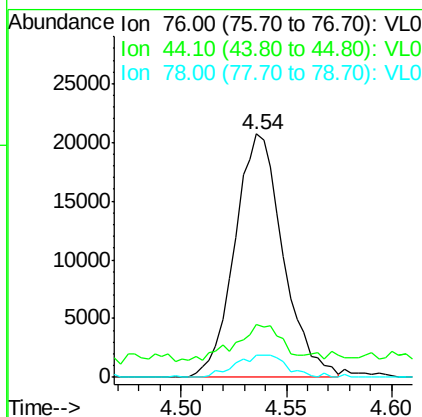
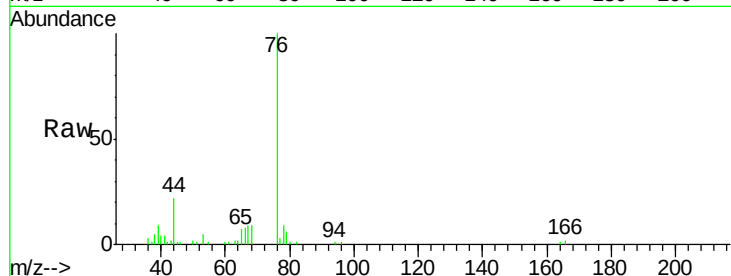
ClientSampleId :

SV-11A

Tot Ion:	76	Resp:	32917
Ion Ratio	Lower	Upper	
76	100		
44	17.5	9.3	13.9#
78	9.8	7.8	11.6

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#29

Chloroform

Concen: 0.261 ppbv

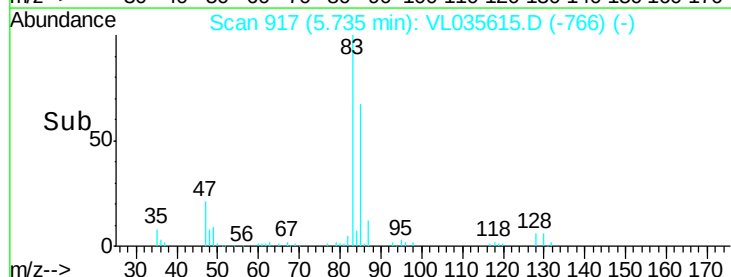
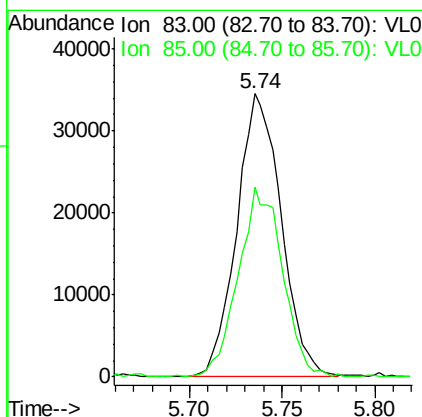
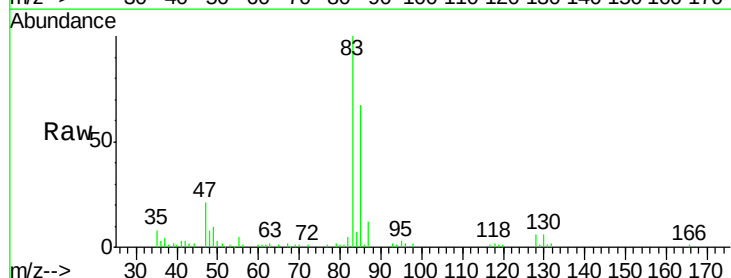
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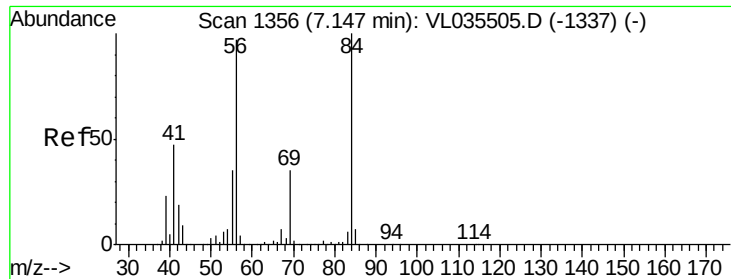
Delta R.T. -0.01 min

Lab File: VL035615.D

Acq: 15 Sep 2020 1:26

Tgt Ion:	83	Resp:	57706
Ion Ratio	Lower	Upper	
83	100		
85	66.9	53.9	80.9





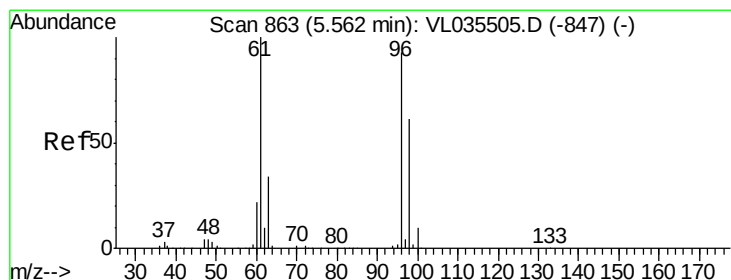
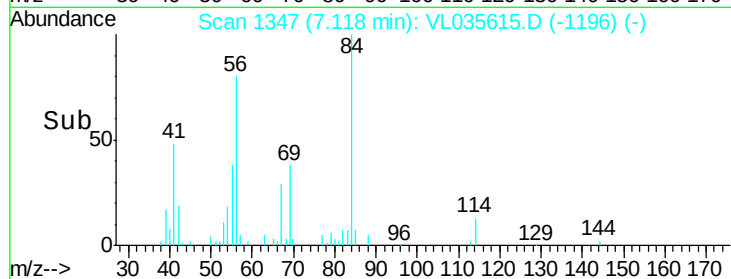
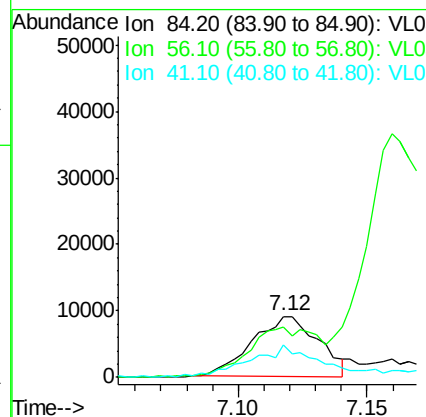
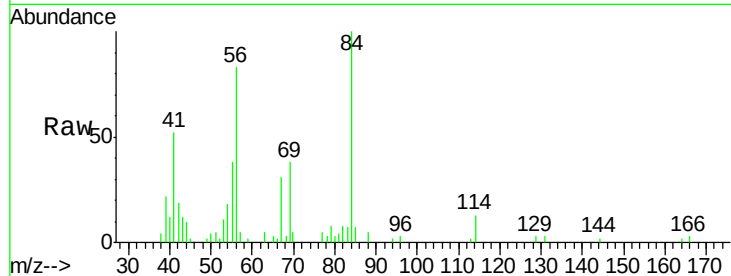
#30
Cyclohexane
Concen: 0.138 ppbv
RT: 7.12 min Scan# 1347
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument :
MSVOA_L
ClientSampled :
SV-11A

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	80.1	120.1#
41	66.5	38.1	57.1#

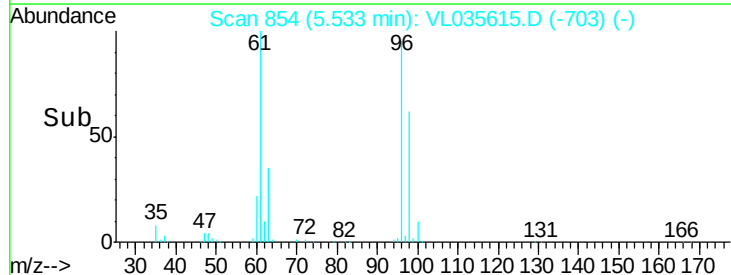
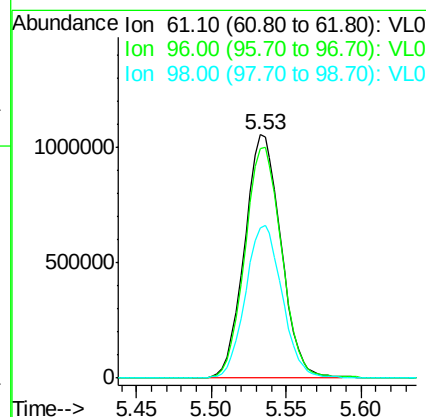
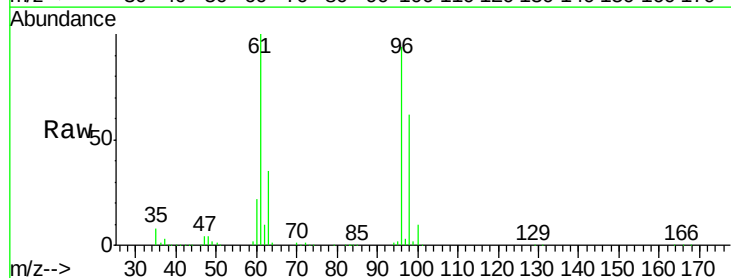
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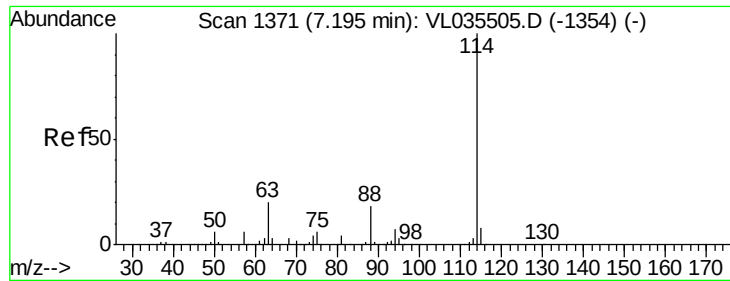
MMDadoda
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#31
cis-1,2-Dichloroethene
Concen: 16.092 ppbv
RT: 5.53 min Scan# 854
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion	Ratio	Lower	Upper
61	100		
96	94.5	74.4	111.6
98	61.8	49.2	73.8





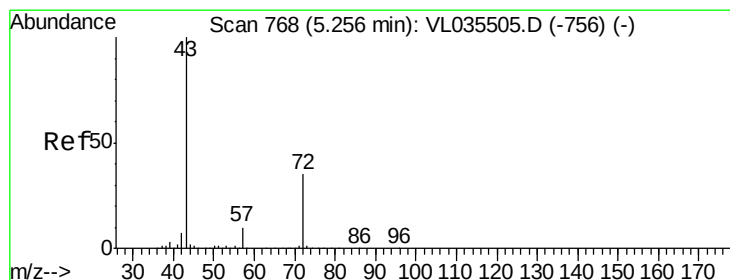
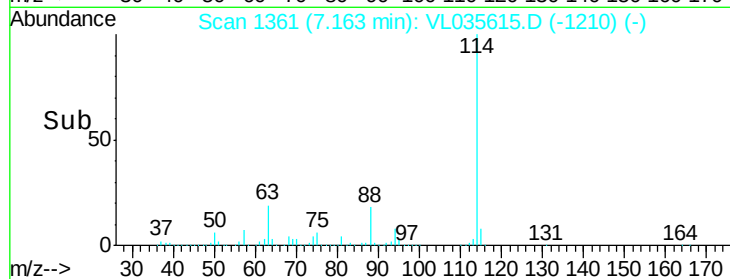
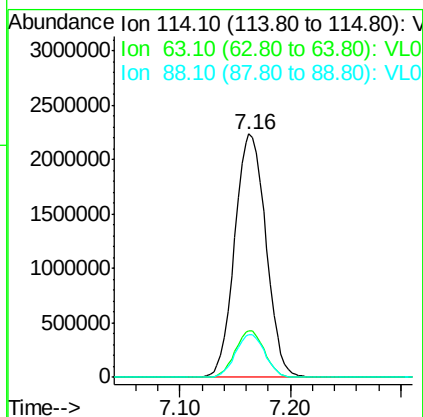
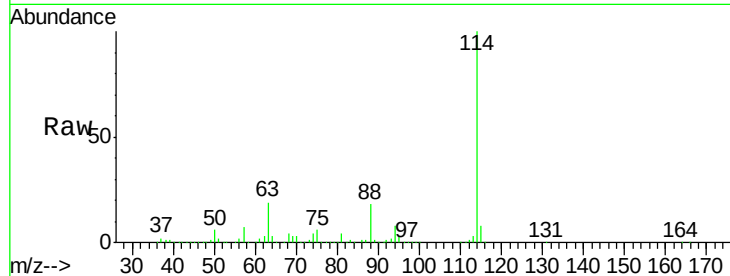
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.01 min
 Lab File: VL035615.D
 Acq: 15 Sep 2020 1:26

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-11A

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.1	14.7	22.1
88	16.8	13.4	20.2

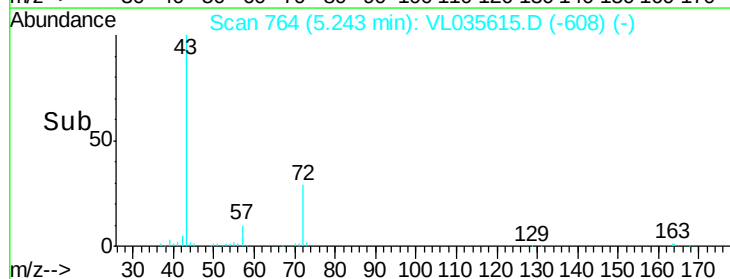
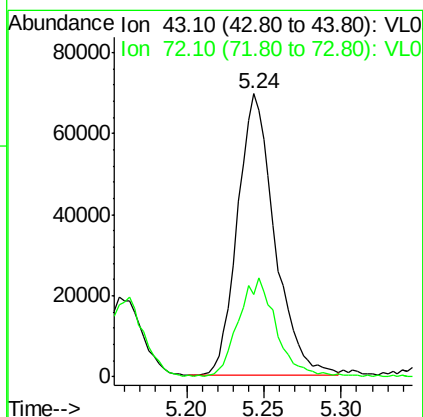
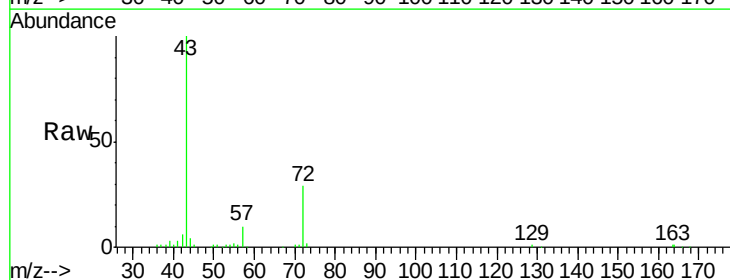
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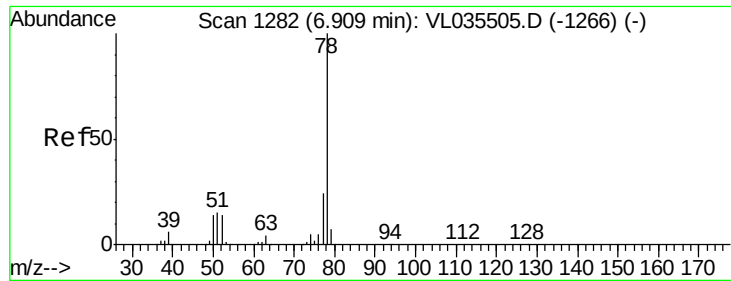
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 9/17/2020 5:40:57 PM



#34
 2-Butanone
 Concen: 0.897 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.00 min
 Lab File: VL035615.D
 Acq: 15 Sep 2020 1:26

Tgt Ion	Ratio	Lower	Upper
43	100		
72	36.1	27.7	41.5





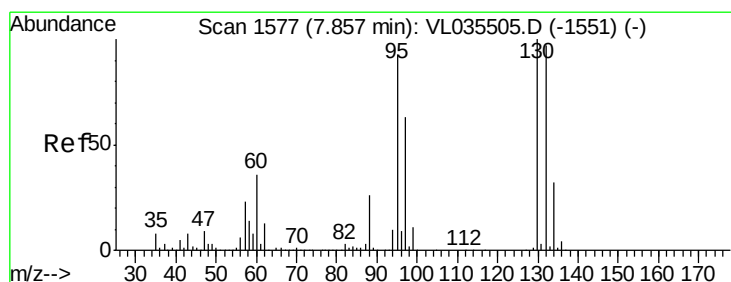
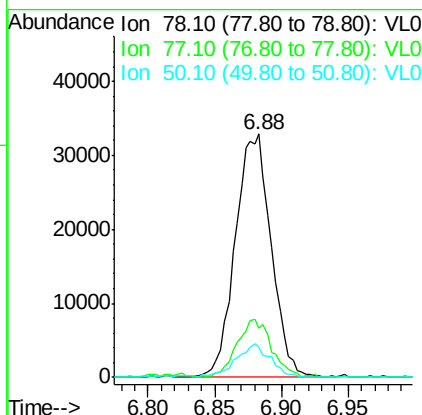
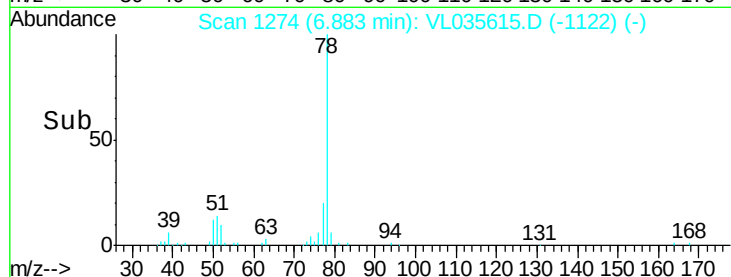
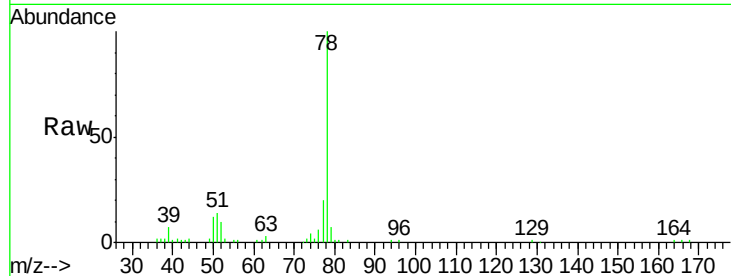
#36
Benzene
Concen: 0.218 ppbv m
RT: 6.88 min Scan# 1274
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument :
MSVOA_L
ClientSampleId :
SV-11A

Tot Ion	Ratio	Lower	Upper
78	100		
77	20.3	19.3	28.9
50	12.2	11.0	16.6

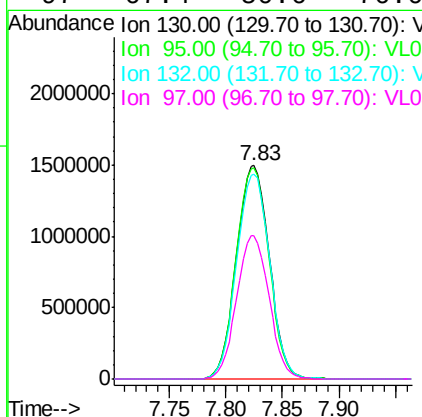
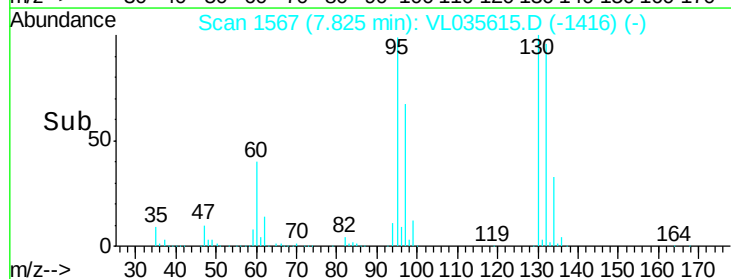
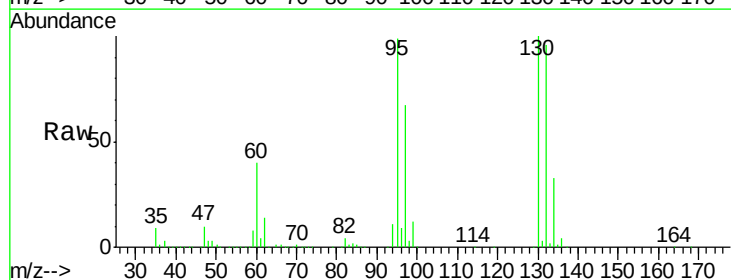
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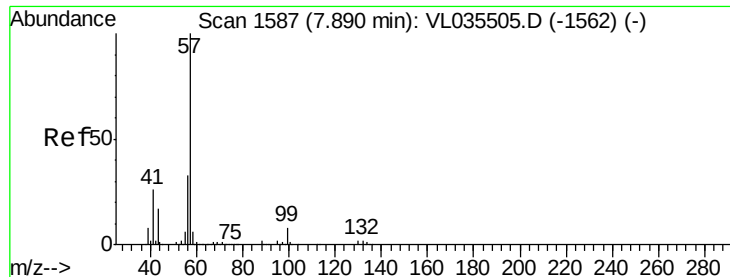
MMDadoda
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#38
Trichloroethene
Concen: 18.508 ppbv
RT: 7.83 min Scan# 1567
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion	Ratio	Lower	Upper
130	100		
95	98.6	74.6	112.0
132	96.2	77.6	116.4
97	67.4	50.6	76.0





#44

2,2,4-Trimethylpentane

Concen: 0.380 ppbv

RT: 7.86 min Scan# 1578

Delta R.T. -0.01 min

Lab File: VL035615.D

Acq: 15 Sep 2020 1:26

Instrument :

MSVOA_L

ClientSampleId :

SV-11A

Tot Ion: 57 Resp: 141577
Ion Ratio Lower Upper

57 100

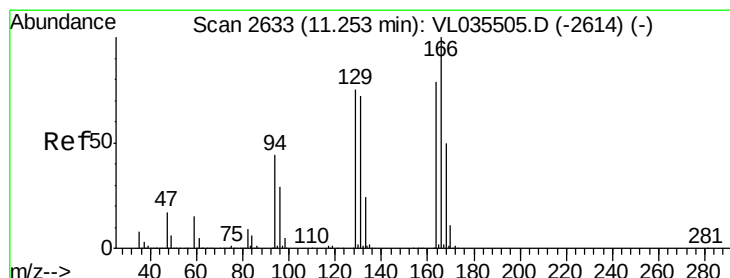
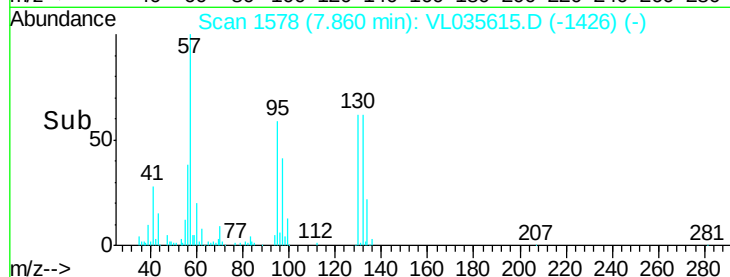
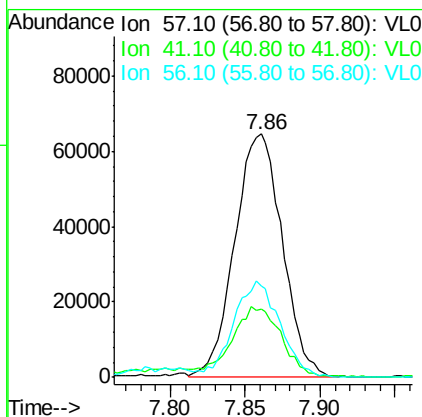
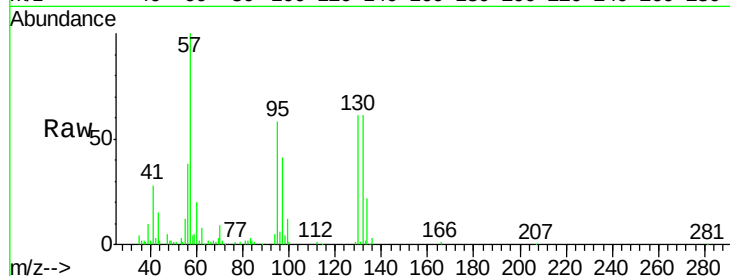
41 35.5 20.5 30.7#

56 43.6 25.3 37.9#

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#52

Tetrachloroethene

Concen: 68.813 ppbv m

RT: 11.22 min Scan# 2622

Delta R.T. -0.01 min

Lab File: VL035615.D

Acq: 15 Sep 2020 1:26

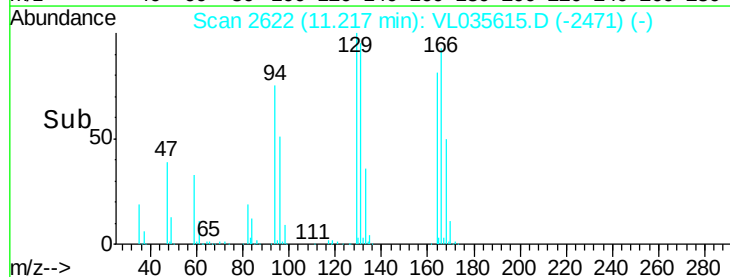
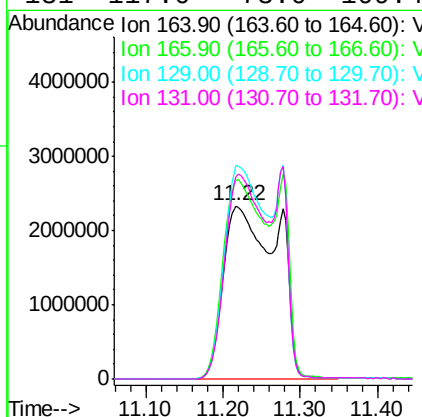
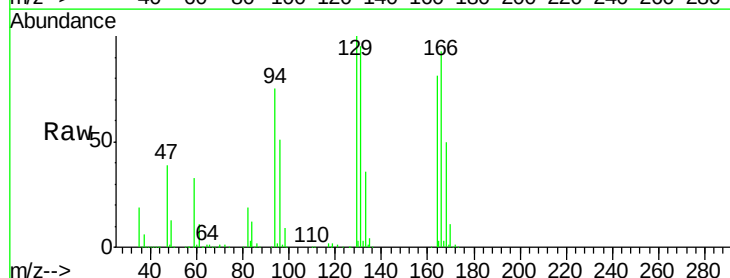
Tgt Ion:164 Resp:11390227
Ion Ratio Lower Upper

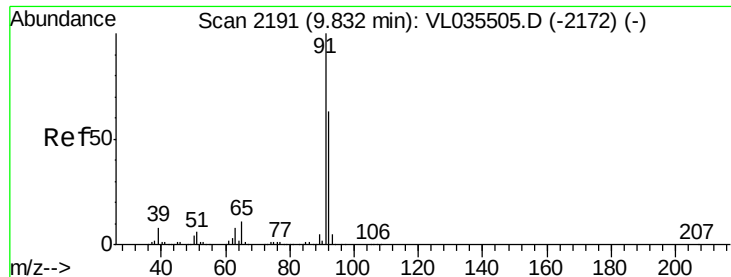
164 100

166 114.4 100.9 151.3

129 123.3 75.3 112.9#

131 117.0 73.0 109.4#





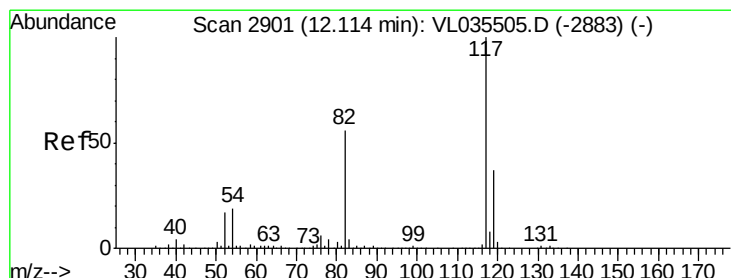
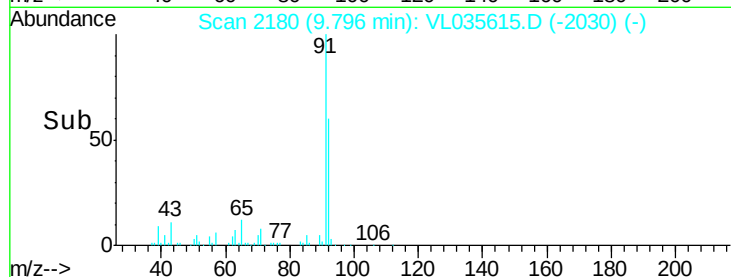
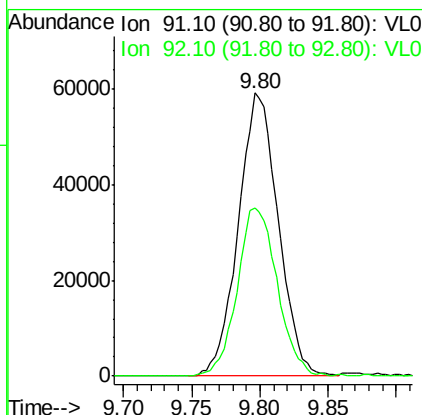
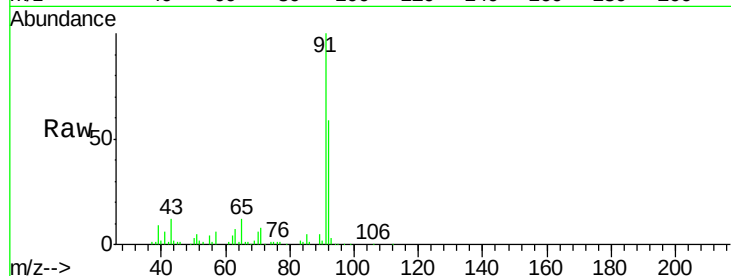
#53
Toluene
Concen: 0.338 ppbv
RT: 9.80 min Scan# 2180
Delta R.T. -0.02 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument :
MSVOA_L
ClientSampleId :
SV-11A

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		120478		
92	59.9	49.8	74.8		

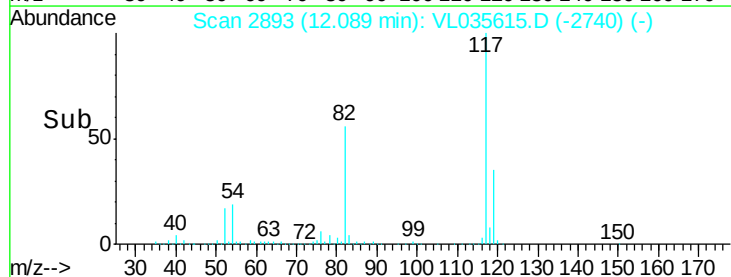
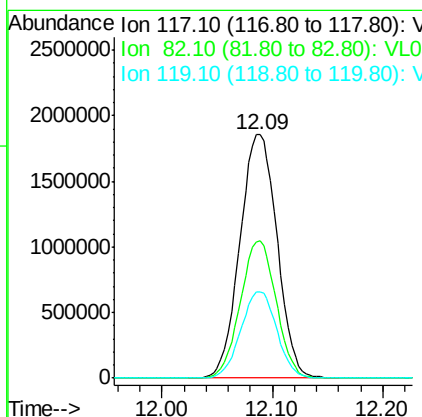
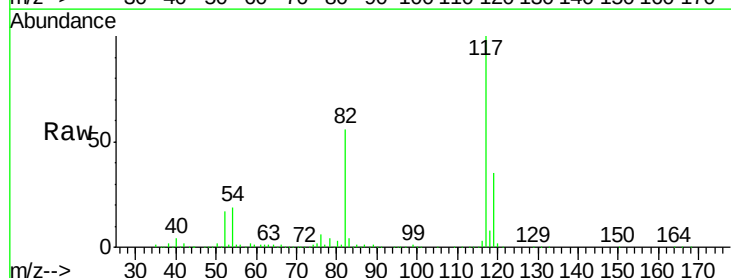
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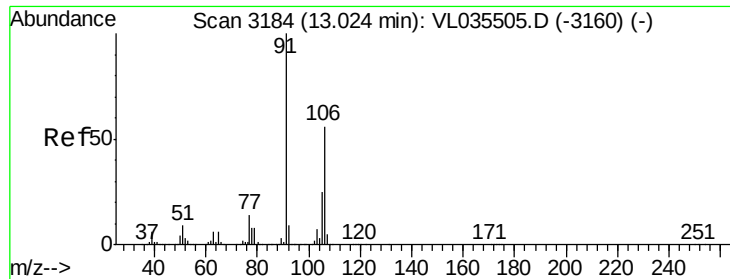
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100		4333762		
82	54.7	41.6	62.4		
119	34.4	29.3	43.9		





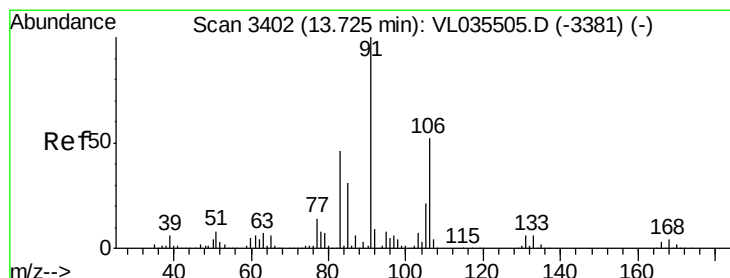
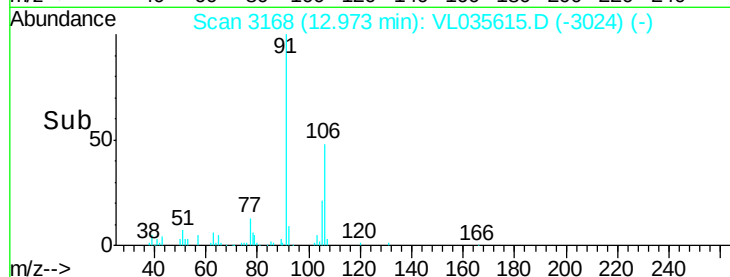
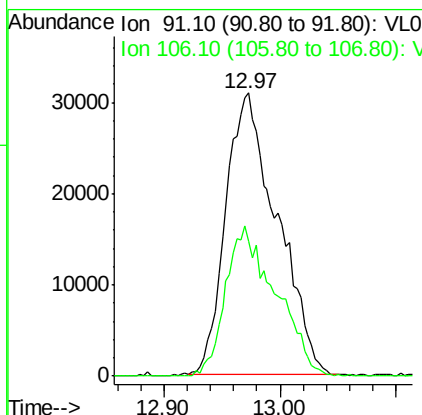
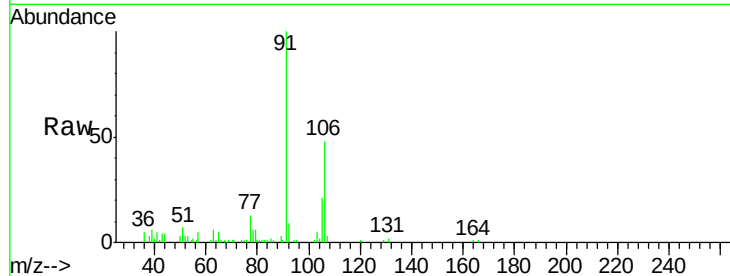
#59
m/p-Xylene
Concen: 0.254 ppbv
RT: 12.97 min Scan# 3168
Delta R.T. -0.04 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument :
MSVOA_L
ClientSampled :
SV-11A

Tot Ion	91	Resp	94915
Ion Ratio	100	Lower	Upper
91	100		
106	51.9	43.4	65.2

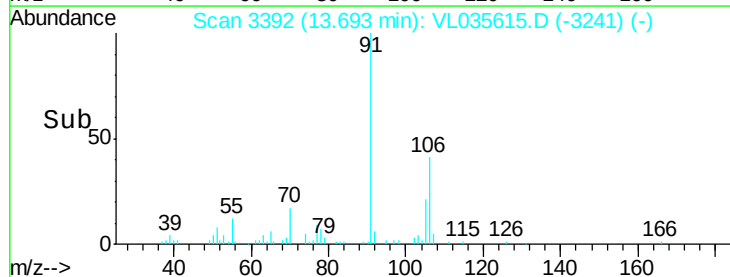
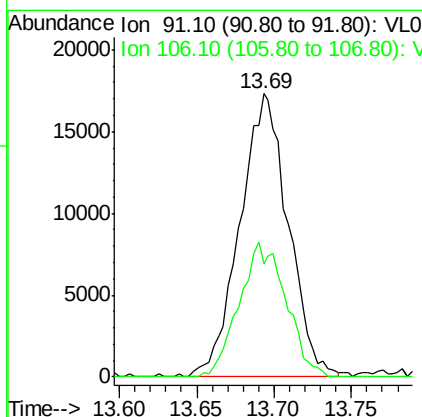
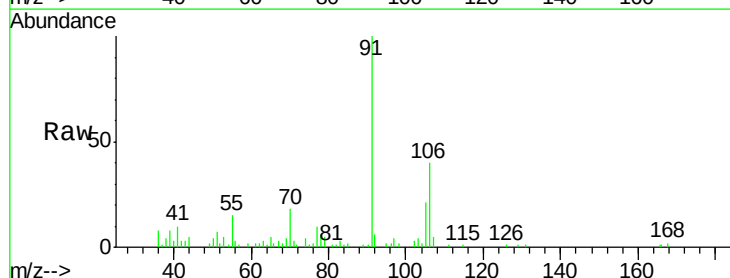
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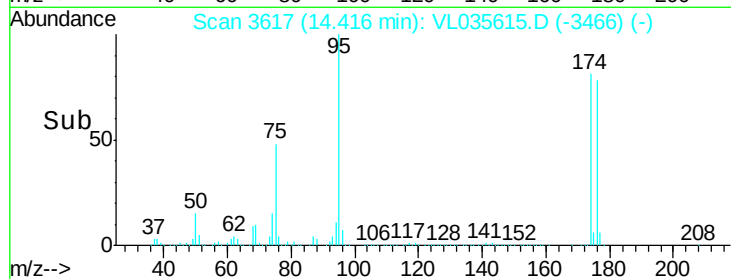
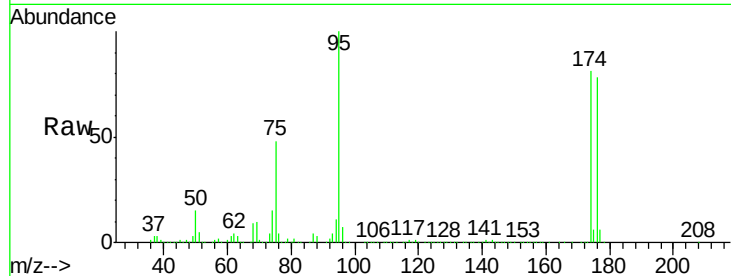
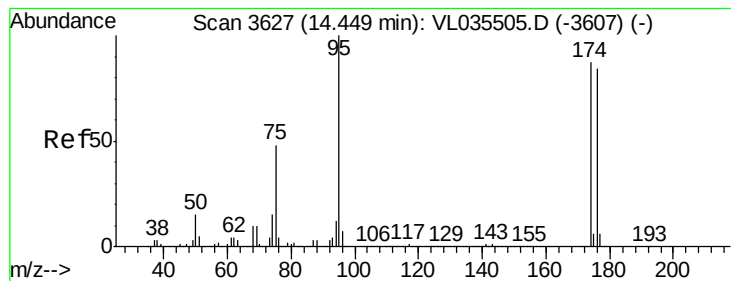
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#60
o-Xylene
Concen: 0.100 ppbv
RT: 13.69 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion	91	Resp	37578
Ion Ratio	100	Lower	Upper
91	100		
106	45.9	25.8	77.4





#68

1-Bromo-4-Fluorobenzene

Concen: 10.522 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL035615.D

Acq: 15 Sep 2020 1:26

Tot Ion: 95 Resp: 3238420

Ion Ratio Lower Upper

95 100

174 81.0 69.6 104.4

175 5.8 5.1 7.7

Instrument :

MSVOA_L

ClientSampleId :

SV-11A

Manual Integrations

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9/17/2020 5:40:57 PM

