

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091620\
 Data File : VL035648.D
 Acq On : 17 Sep 2020 4:13
 Operator : SY/AP
 Sample : L4016-02DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-14DL

Manual Integrations
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 9/17/2020 1:53:04 PM

Quant Time: Sep 17 12:07:01 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	5.67	49	1322555	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	5262745	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	5173671	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3879711	10.56	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.01	41	60047	1.065	ppbv	87
13) Ethanol	3.61	45	12669	0.906	ppbv	99
15) Acetone	3.84	43	3514925	24.097	ppbv	95
27) Carbon Disulfide	4.55	76	50429	0.241	ppbv #	92
29) Chloroform	5.75	83	245112	0.824	ppbv	100
30) Cyclohexane	7.13	84	155018	0.991	ppbv	95
31) cis-1,2-Dichloroethene	5.55	61	12684	0.085	ppbv #	87
34) 2-Butanone	5.25	43	291563	1.867	ppbv	99
36) Benzene	6.89	78	33342	0.098	ppbv	96
38) Trichloroethene	7.84	130	236144	1.193	ppbv	95
44) 2,2,4-Trimethylpentane	7.88	57	9534668	21.271	ppbv #	88
52) Tetrachloroethene	11.24	164	5174175	25.999	ppbv	87
53) Toluene	9.82	91	294272	0.687	ppbv	96
58) Ethyl Benzene	12.72	91	64305	0.121	ppbv #	84
59) m/p-Xylene	12.98	91	195690m	0.439	ppbv	
60) o-Xylene	13.71	91	74283	0.165	ppbv	97
74) 1,2,4-Trimethylbenzene	16.78	105	75759	0.131	ppbv #	74

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

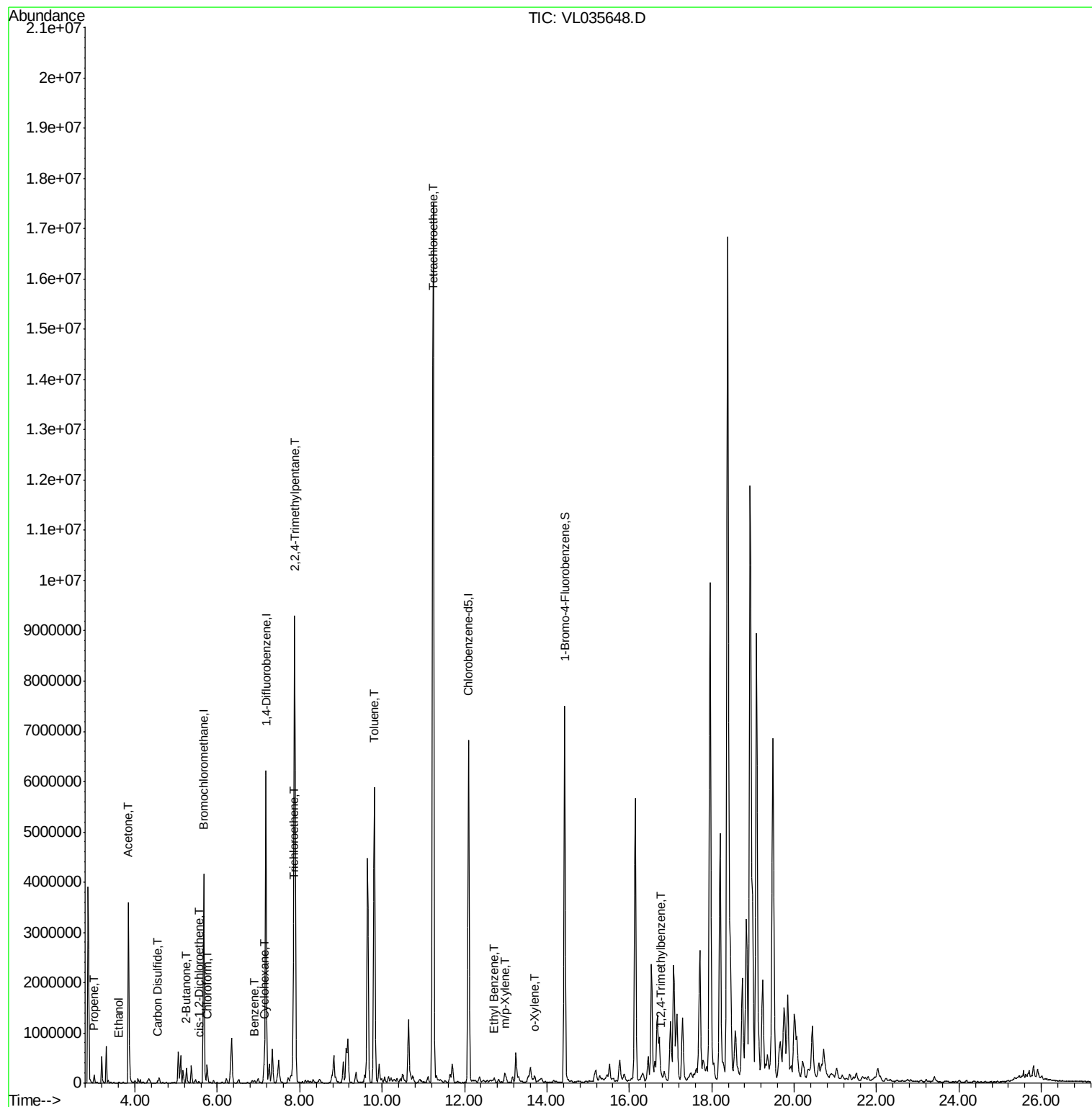
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091620\
Data File : VL035648.D
Acq On : 17 Sep 2020 4:13
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

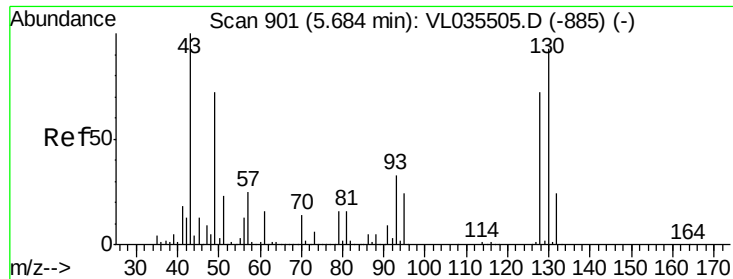
Instrument :
MSVOA_L
ClientSampleId :
SV-14DL

Manual Integrations
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9/17/2020 1:53:04 PM

Quant Time: Sep 17 12:07:01 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: 5.67 min Scan# 896

Delta R.T. 0.00 min

Lab File: VL035648.D

Acq: 17 Sep 2020 4:13

Instrument :

MSVOA_L

ClientSampleId :

SV-14DL

Tot Ion: 49 Resp: 1322555

Ion Ratio Lower Upper

49 100

128 87.4 50.0 150.1

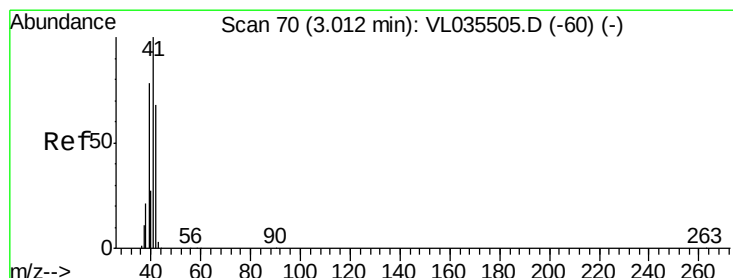
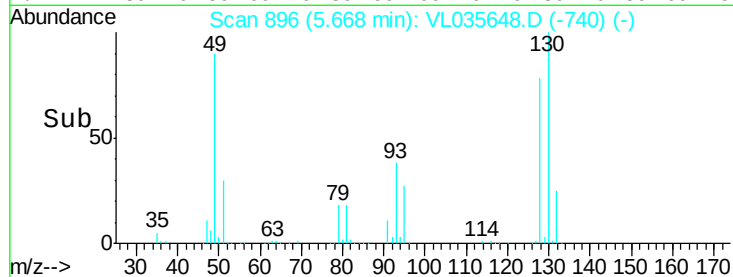
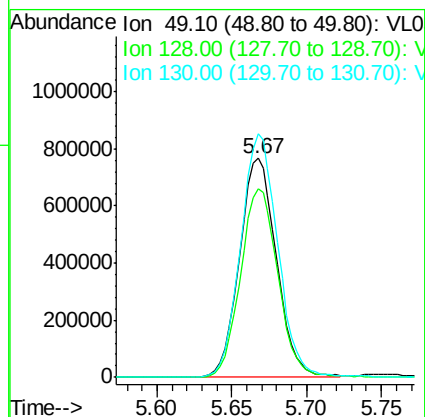
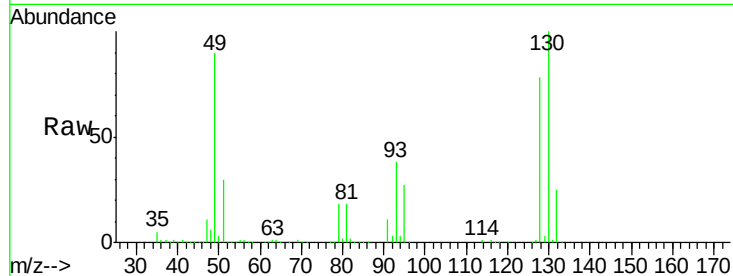
130 111.8 64.4 193.2

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#9

Propene

Concen: 1.065 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.01 min

Lab File: VL035648.D

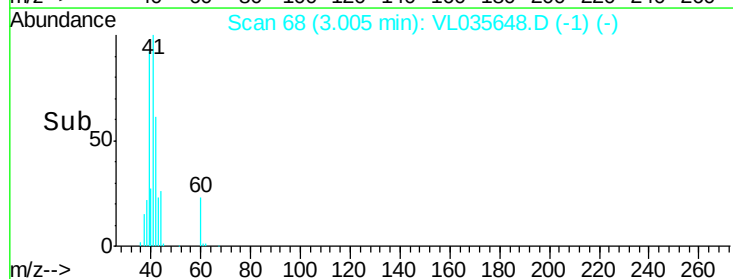
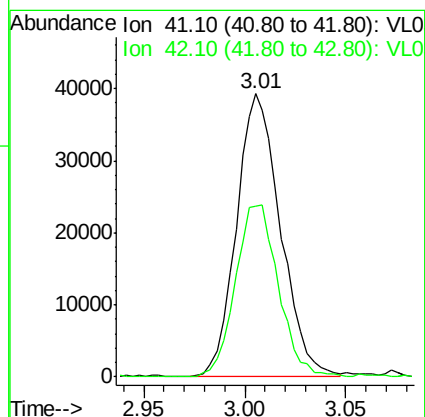
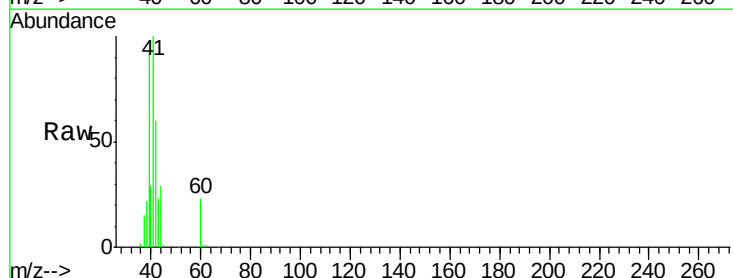
Acq: 17 Sep 2020 4:13

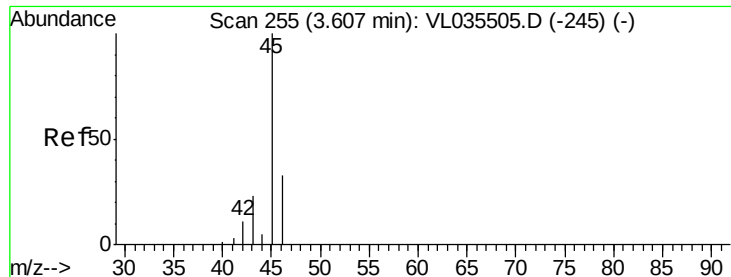
Tgt Ion: 41 Resp: 60047

Ion Ratio Lower Upper

41 100

42 59.5 56.3 84.5





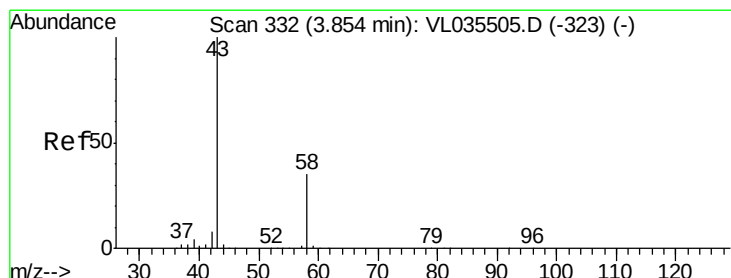
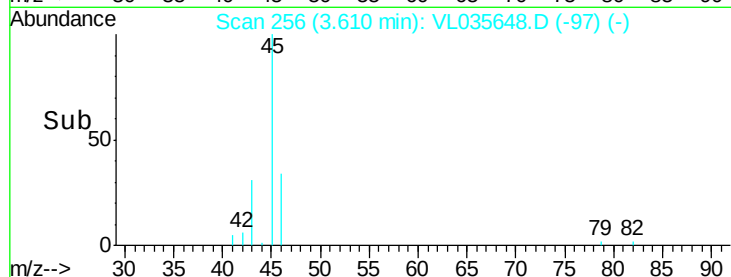
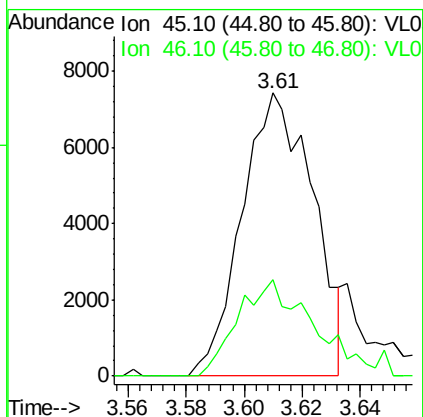
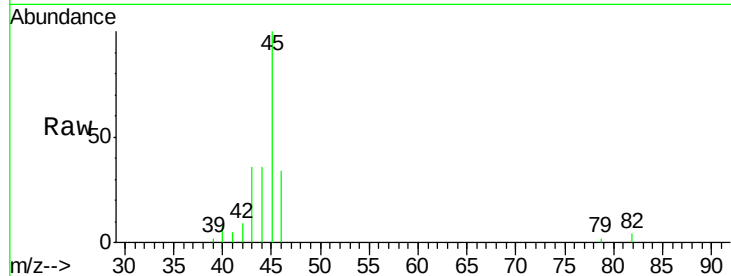
#13
Ethanol
Concen: 0.906 ppbv
RT: 3.61 min Scan# 256
Delta R.T. 0.01 min
Lab File: VL035648.D
Acq: 17 Sep 2020 4:13

Instrument :
MSVOA_L
ClientSampleId :
SV-14DL

Tot Ion: 45 Resp: 12669
Ion Ratio Lower Upper
45 100
46 37.1 15.2 60.6

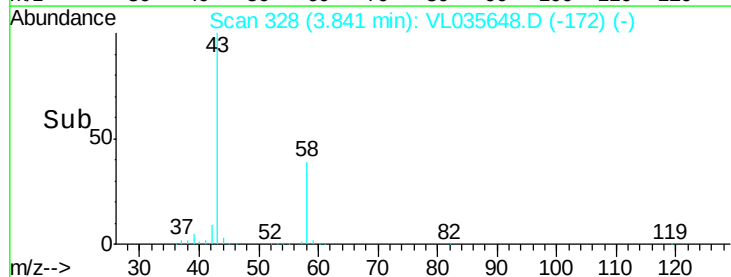
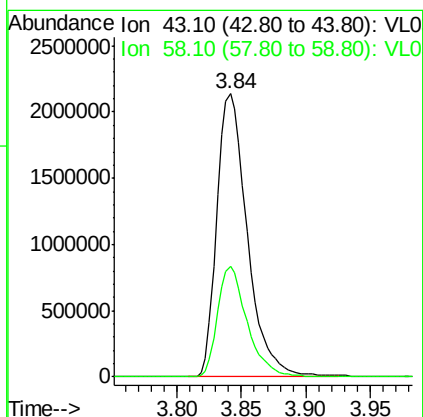
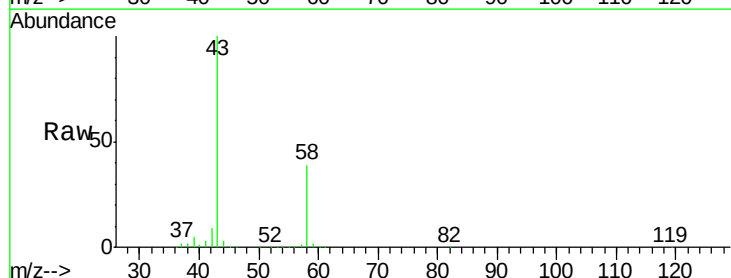
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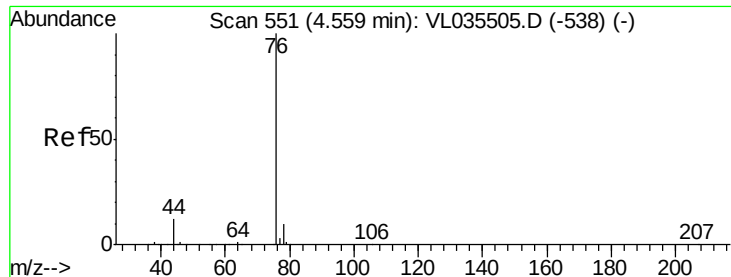
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#15
Acetone
Concen: 24.097 ppbv
RT: 3.84 min Scan# 328
Delta R.T. 0.00 min
Lab File: VL035648.D
Acq: 17 Sep 2020 4:13

Tgt Ion: 43 Resp: 3514925
Ion Ratio Lower Upper
43 100
58 38.5 28.4 42.6





#27

Carbon Disulfide

Concen: 0.241 ppbv

RT: 4.55 min Scan# 548

Delta R.T. 0.01 min

Lab File: VL035648.D

Acq: 17 Sep 2020 4:13

Instrument :

MSVOA_L

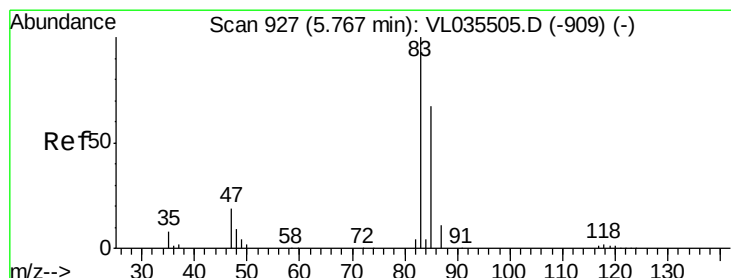
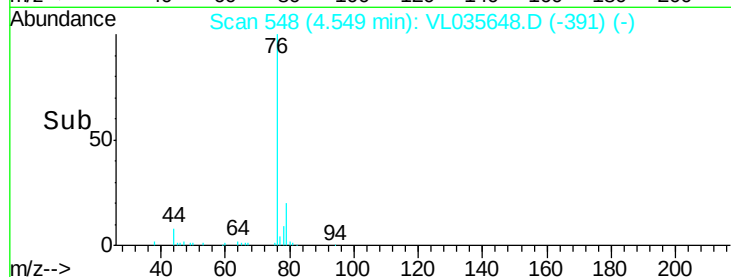
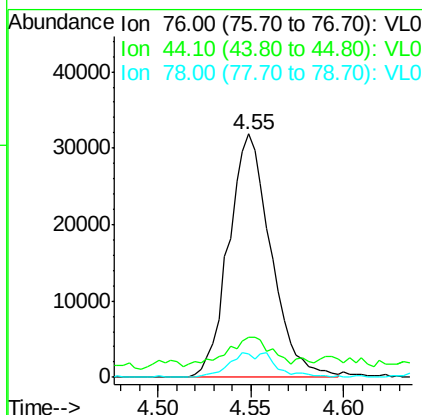
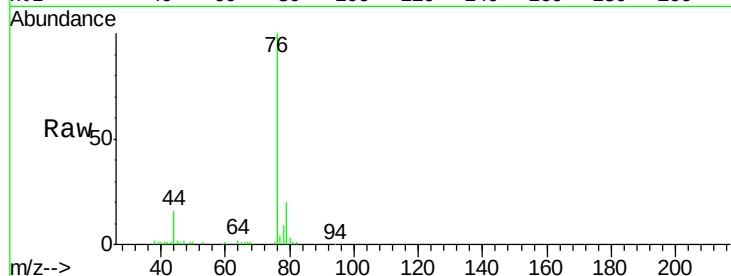
ClientSampleId :

SV-14DL

Tot Ion:	76	Resp:	50429
Ion Ratio	Lower	Upper	
76	100		
44	16.0	9.3	13.9#
78	11.1	7.8	11.6

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#29

Chloroform

Concen: 0.824 ppbv

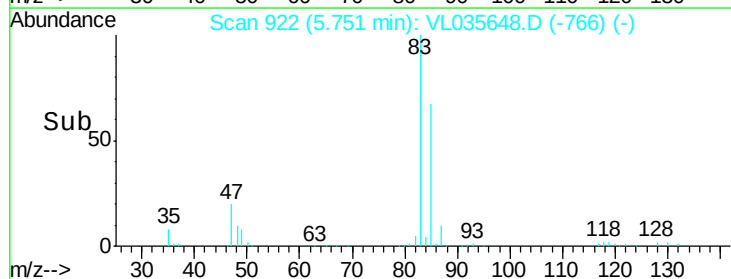
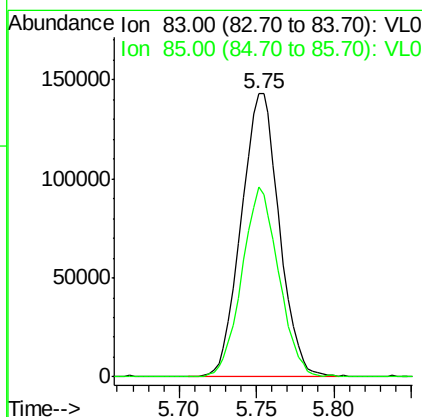
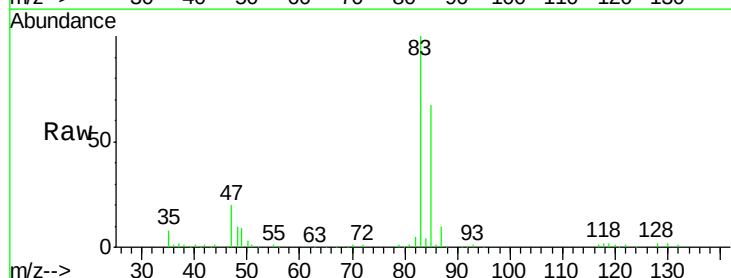
RT: 5.75 min Scan# 922

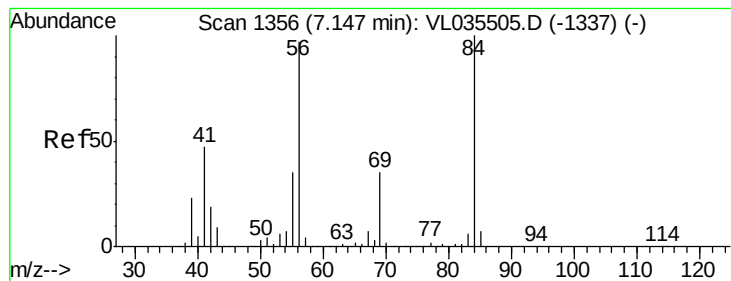
Delta R.T. 0.00 min

Lab File: VL035648.D

Acq: 17 Sep 2020 4:13

Tgt Ion:	83	Resp:	245112
Ion Ratio	Lower	Upper	
83	100		
85	67.0	53.9	80.9





#30

Cyclohexane

Concen: 0.991 ppbv

RT: 7.13 min Scan# 1352

Delta R.T. 0.00 min

Lab File: VL035648.D

Acq: 17 Sep 2020 4:13

Instrument :

MSVOA_L

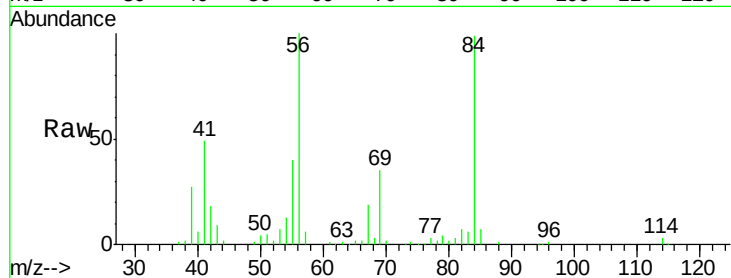
ClientSampled :

SV-14DL

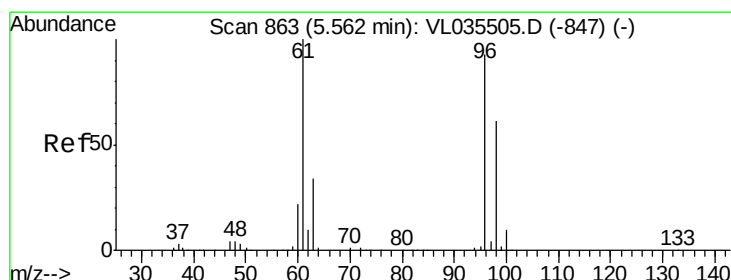
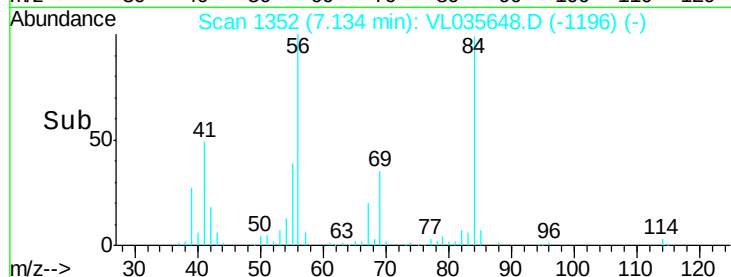
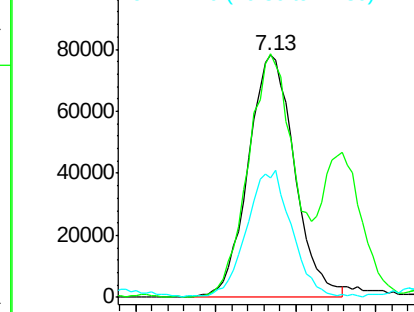
Tot Ion:	84	Resp:	155018
Ion Ratio	Lower	Upper	
84	100		
56	94.9	80.1	120.1
41	50.5	38.1	57.1

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Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0



#31

cis-1,2-Dichloroethene

Concen: 0.085 ppbv

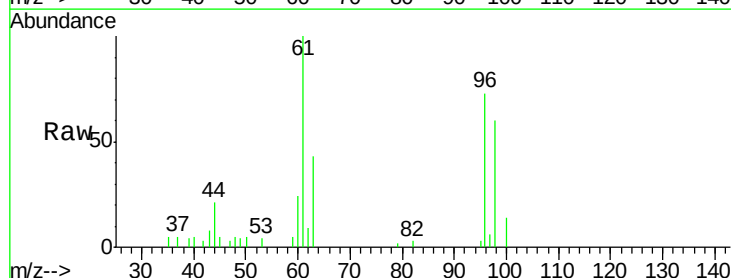
RT: 5.55 min Scan# 860

Delta R.T. 0.01 min

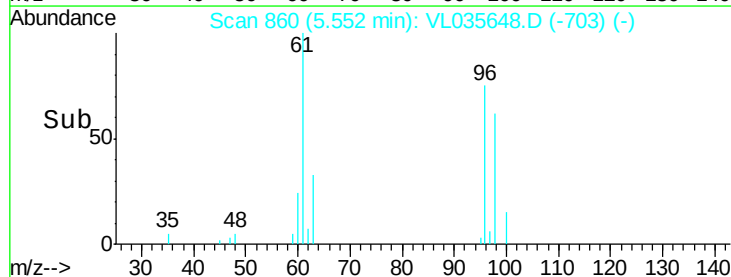
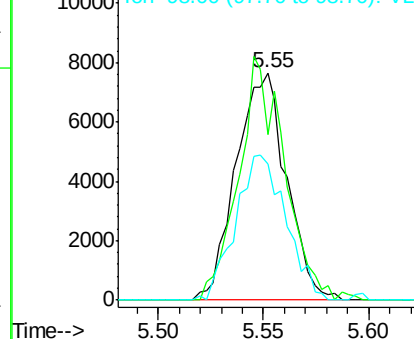
Lab File: VL035648.D

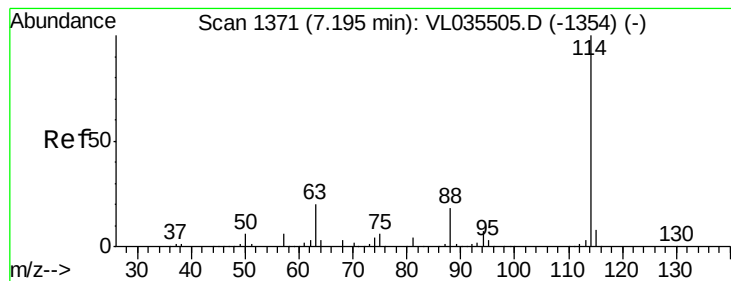
Acq: 17 Sep 2020 4:13

Tgt Ion:	61	Resp:	12684
Ion Ratio	Lower	Upper	
61	100		
96	72.9	74.4	111.6#
98	59.9	49.2	73.8



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. 0.00 min

Lab File: VL035648.D

Acq: 17 Sep 2020 4:13

Instrument :

MSVOA_L

ClientSampleId :

SV-14DL

Tot Ion:114 Resp: 5262745

Ion Ratio Lower Upper

114 100

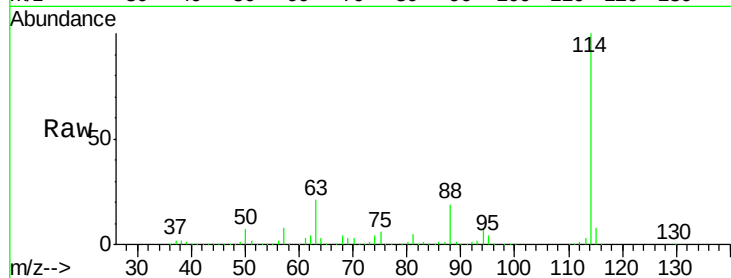
63 19.6 14.7 22.1

88 17.8 13.4 20.2

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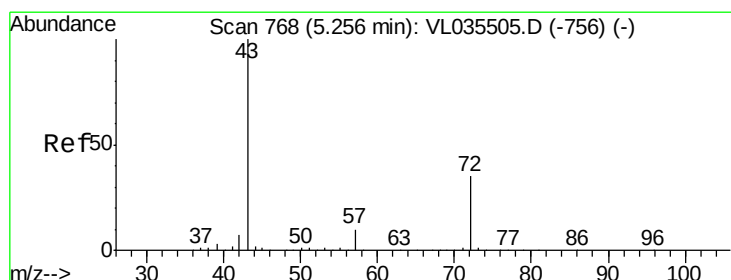
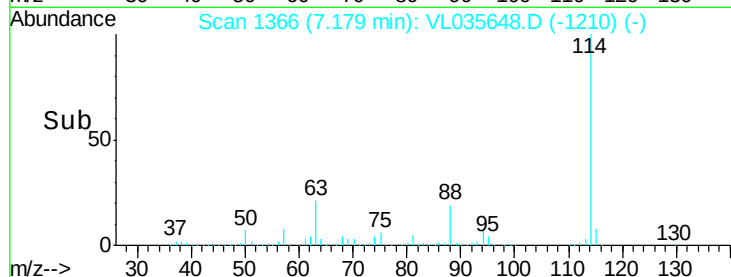
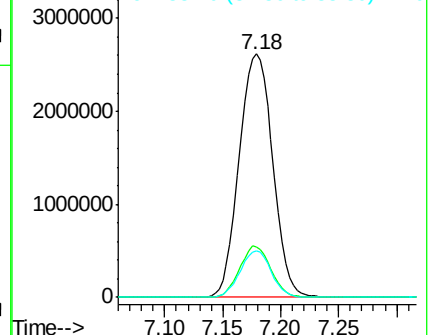
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Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 1.867 ppbv

RT: 5.25 min Scan# 766

Delta R.T. 0.01 min

Lab File: VL035648.D

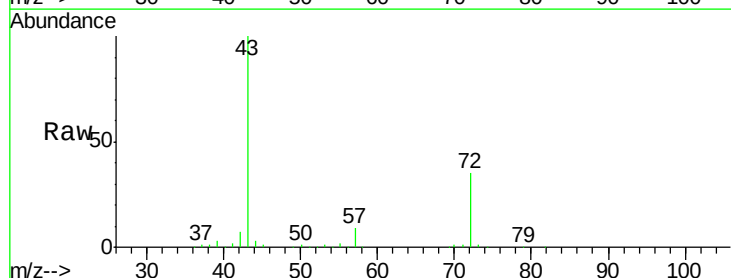
Acq: 17 Sep 2020 4:13

Tgt Ion: 43 Resp: 291563

Ion Ratio Lower Upper

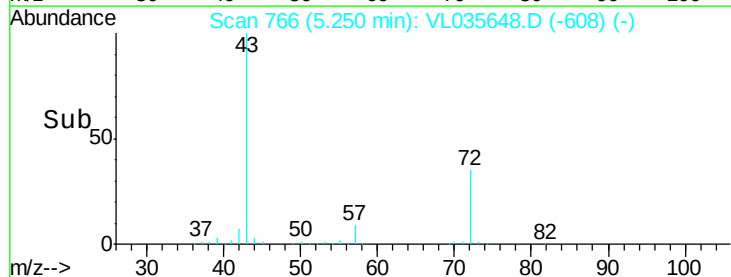
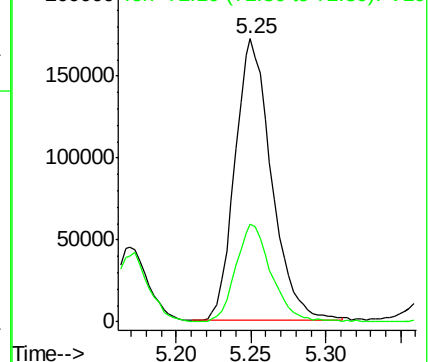
43 100

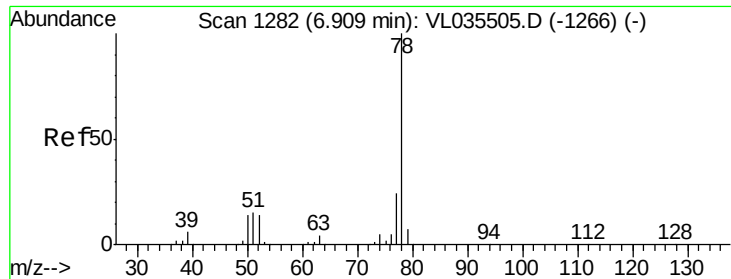
72 34.2 27.7 41.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





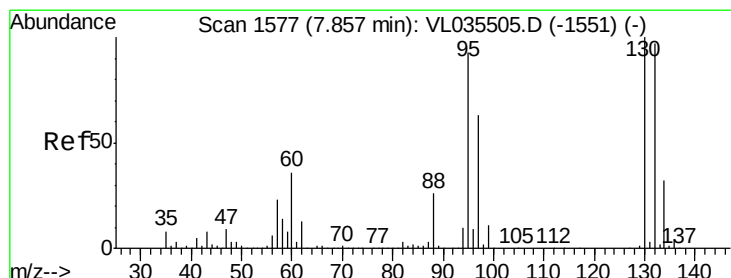
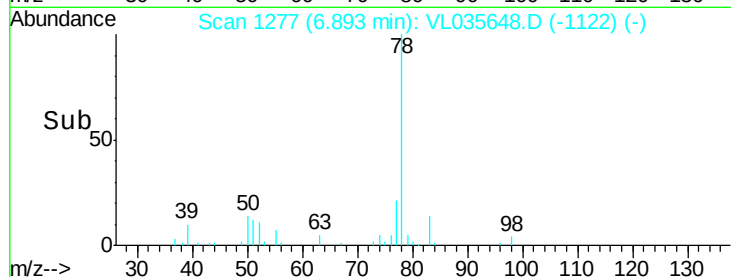
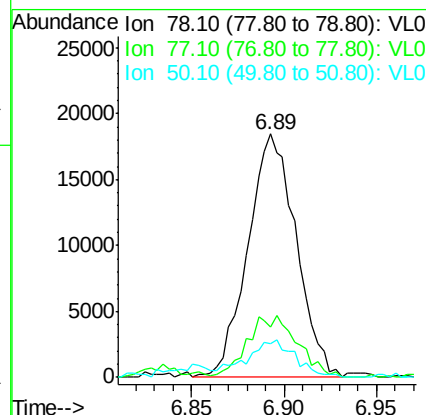
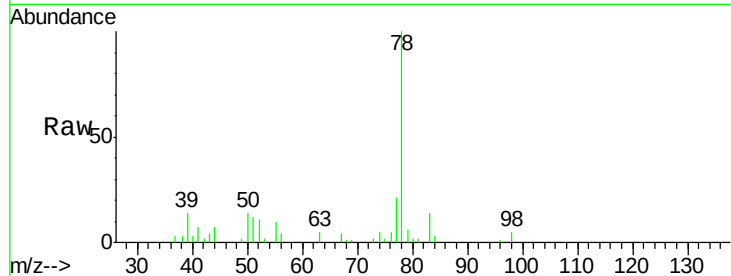
#36
Benzene
Concen: 0.098 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. -0.00 min
Lab File: VL035648.D
Acq: 17 Sep 2020 4:13

Instrument :
MSVOA_L
ClientSampleId :
SV-14DL

Tot Ion	Ratio	Lower	Upper
78	100		
77	20.8	19.3	28.9
50	14.0	11.0	16.6

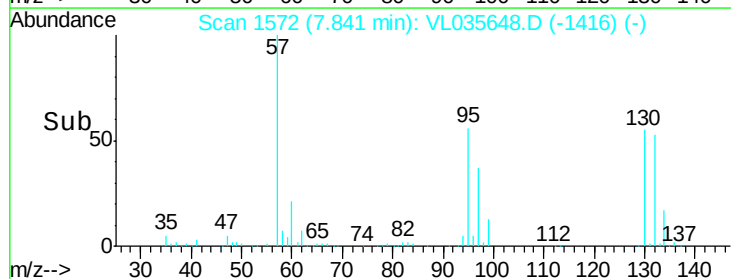
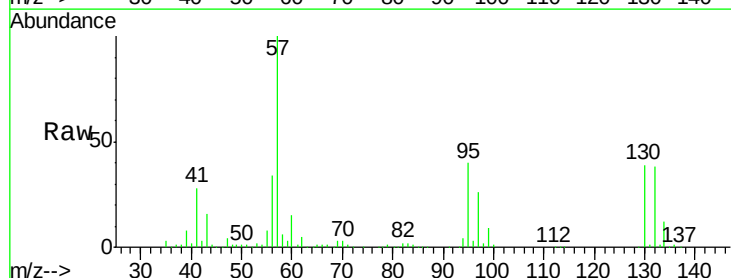
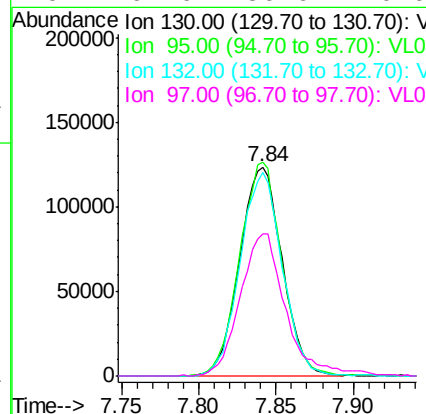
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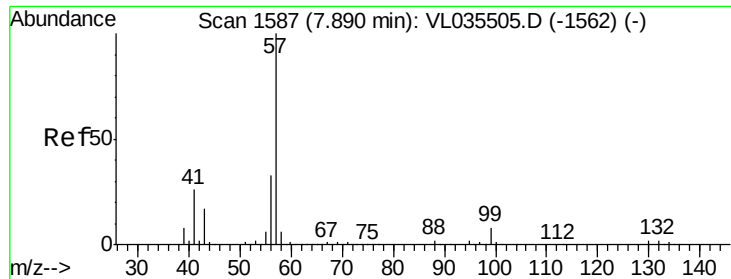
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#38
Trichloroethene
Concen: 1.193 ppbv
RT: 7.84 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VL035648.D
Acq: 17 Sep 2020 4:13

Tgt Ion	Ratio	Lower	Upper
130	100		
95	101.6	74.6	112.0
132	97.0	77.6	116.4
97	67.6	50.6	76.0





#44

2,2,4-Trimethylpentane

Concen: 21.271 ppbv

RT: 7.88 min Scan# 1583

Delta R.T. 0.01 min

Lab File: VL035648.D

Acq: 17 Sep 2020 4:13

Instrument :

MSVOA_L

ClientSampleId :

SV-14DL

Tot Ion: 57 Resp: 9534668

Ion Ratio Lower Upper

57 100

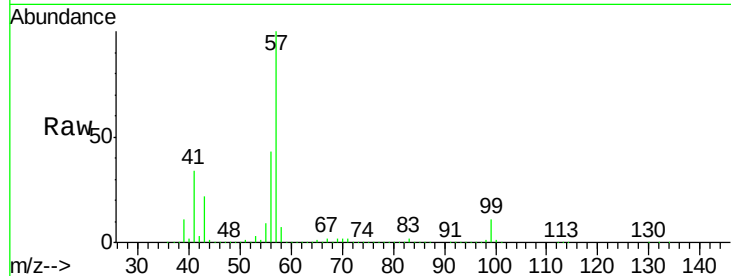
41 30.8 20.5 30.7#

56 38.8 25.3 37.9#

Manual Integrations
APPROVED

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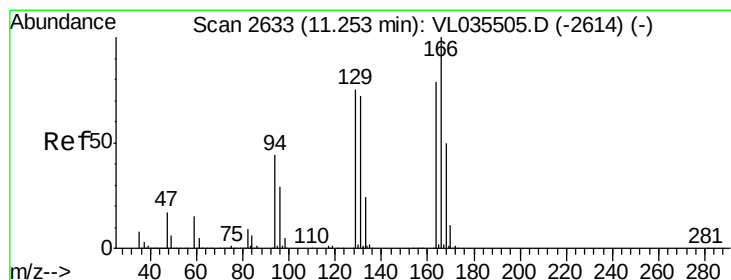
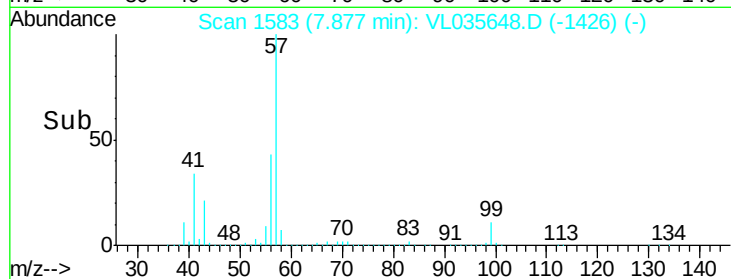
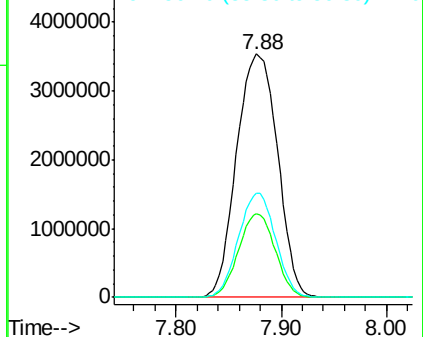
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Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#52

Tetrachloroethene

Concen: 25.999 ppbv

RT: 11.24 min Scan# 2629

Delta R.T. 0.01 min

Lab File: VL035648.D

Acq: 17 Sep 2020 4:13

Tgt Ion:164 Resp: 5174175

Ion Ratio Lower Upper

164 100

166 119.8 100.9 151.3

129 112.7 75.3 112.9

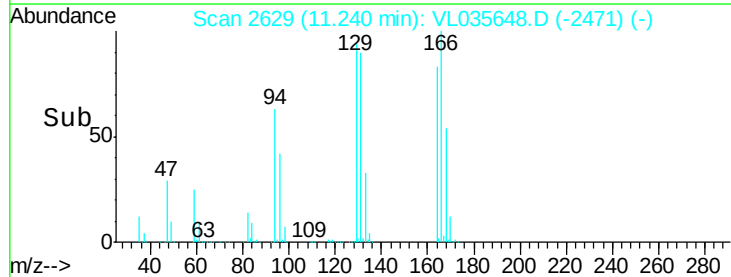
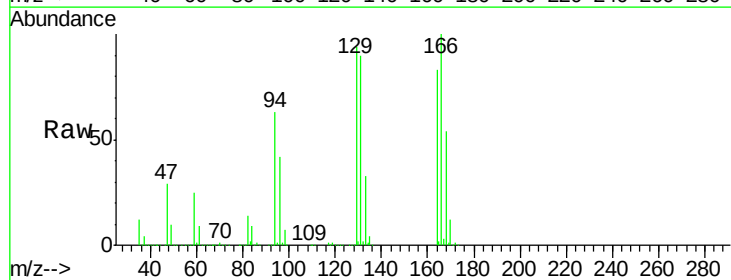
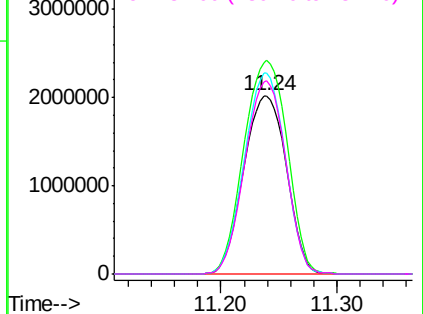
131 108.1 73.0 109.4

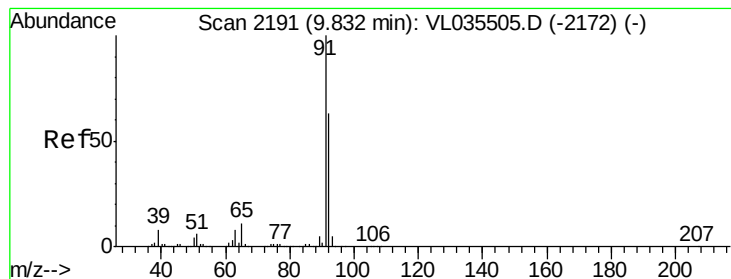
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.687 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VL035648.D

Acq: 17 Sep 2020 4:13

Instrument :

MSVOA_L

ClientSampleId :

SV-14DL

Tot Ion: 91 Resp: 294272

Ion Ratio Lower Upper

91 100

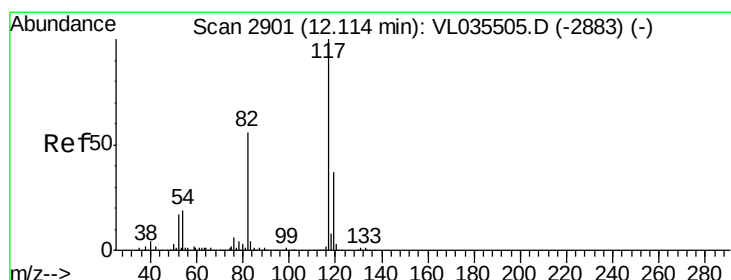
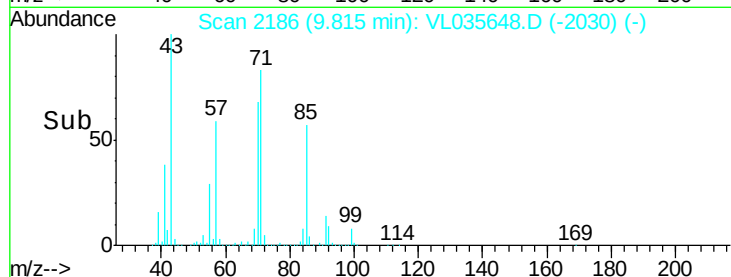
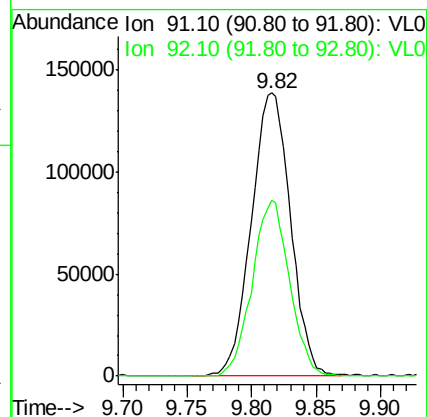
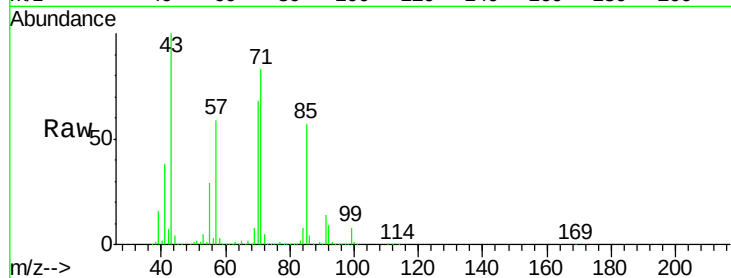
92 59.1 49.8 74.8

Manual Integrations

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. 0.00 min

Lab File: VL035648.D

Acq: 17 Sep 2020 4:13

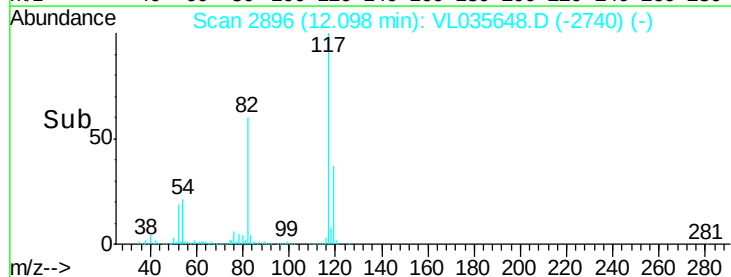
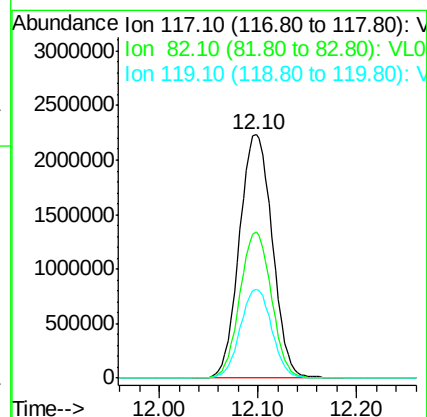
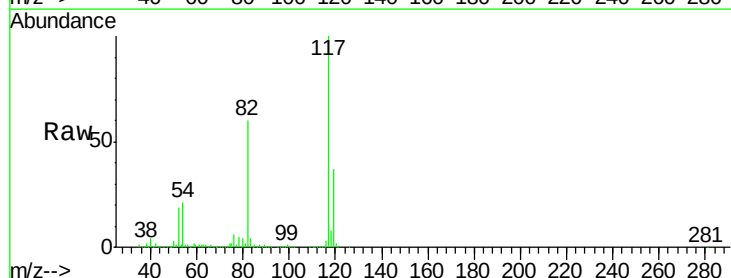
Tgt Ion: 117 Resp: 5173671

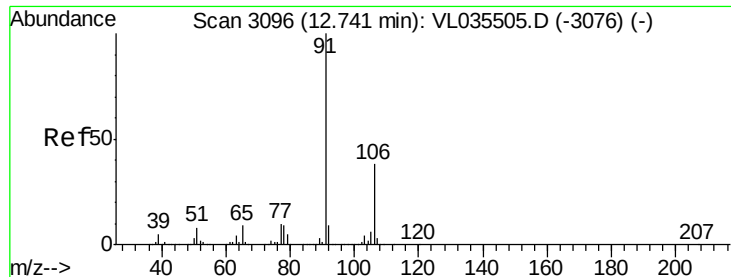
Ion Ratio Lower Upper

117 100

82 57.5 41.6 62.4

119 35.0 29.3 43.9





#58

Ethyl Benzene

Concen: 0.121 ppbv

RT: 12.72 min Scan# 3090

Delta R.T. -0.00 min

Lab File: VL035648.D

Acq: 17 Sep 2020 4:13

Instrument :

MSVOA_L

ClientSampled :

SV-14DL

Tot Ion: 91 Resp: 64305

Ion Ratio Lower Upper

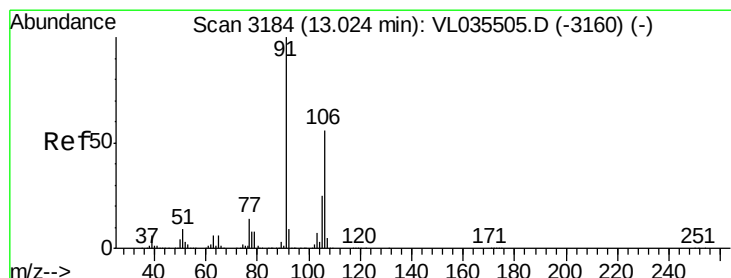
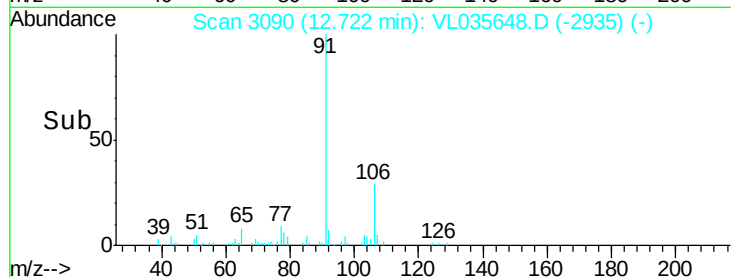
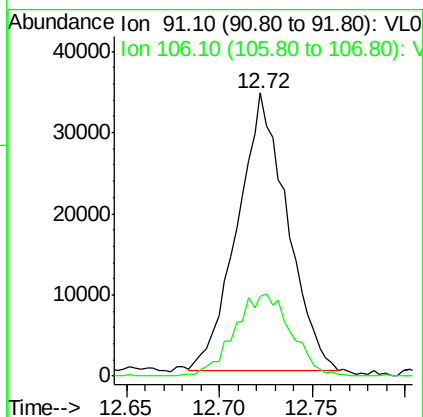
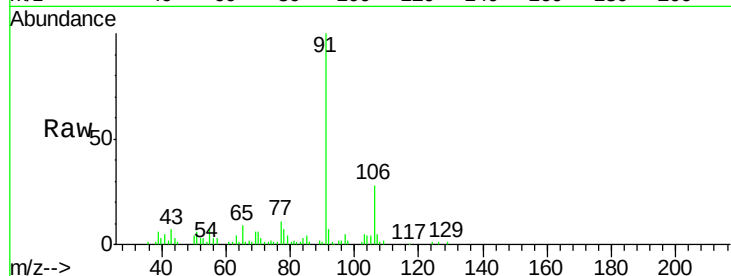
91 100

106 28.2 30.3 45.5#

Manual Integrations
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#59

m/p-Xylene

Concen: 0.439 ppbv m

RT: 12.98 min Scan# 3170

Delta R.T. -0.03 min

Lab File: VL035648.D

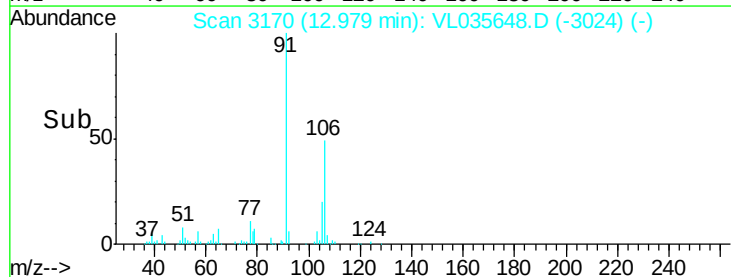
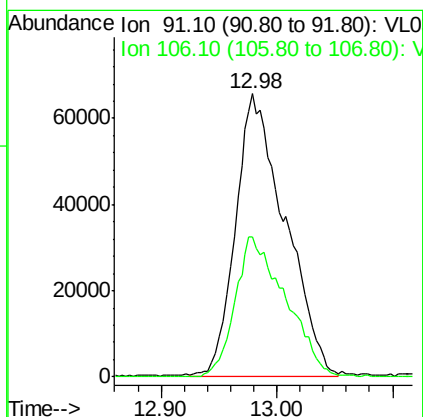
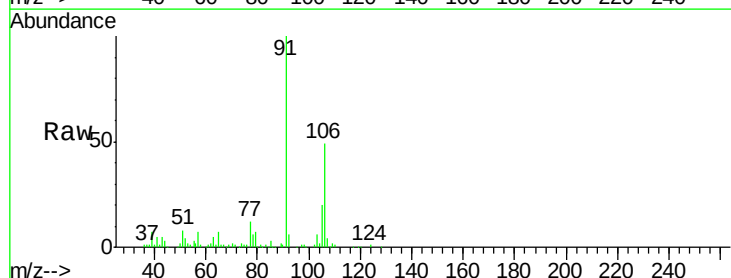
Acq: 17 Sep 2020 4:13

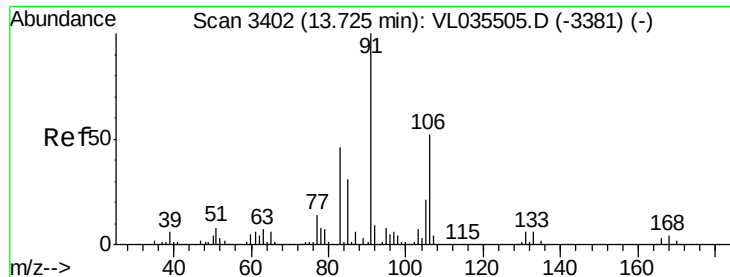
Tgt Ion: 91 Resp: 195690

Ion Ratio Lower Upper

91 100

106 0.0 43.4 65.2#





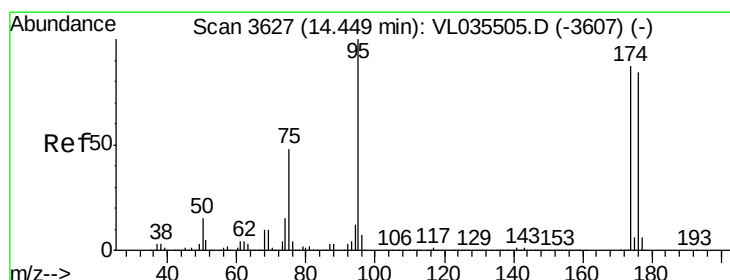
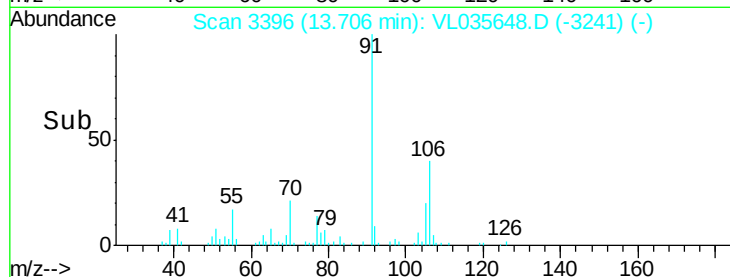
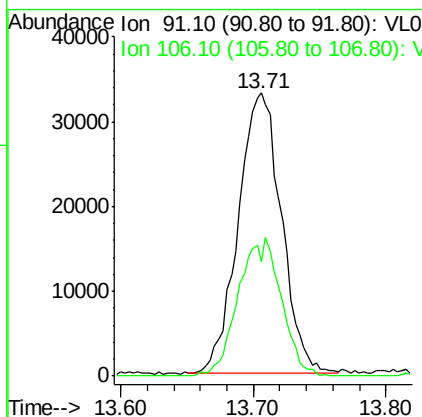
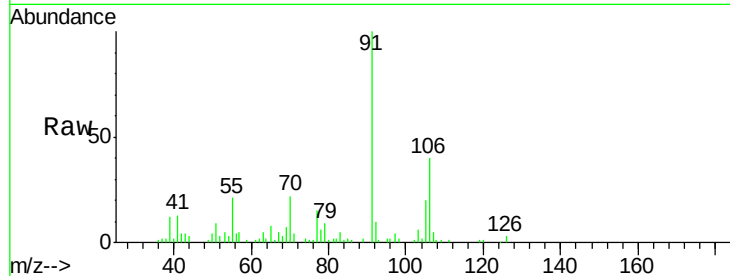
#60
o-Xylene
Concen: 0.165 ppbv
RT: 13.71 min Scan# 3396
Delta R.T. -0.00 min
Lab File: VL035648.D
Acq: 17 Sep 2020 4:13

Instrument :
MSVOA_L
ClientSampleId :
SV-14DL

Tot Ion: 91 Resp: 74283
Ion Ratio Lower Upper
91 100
106 49.2 25.8 77.4

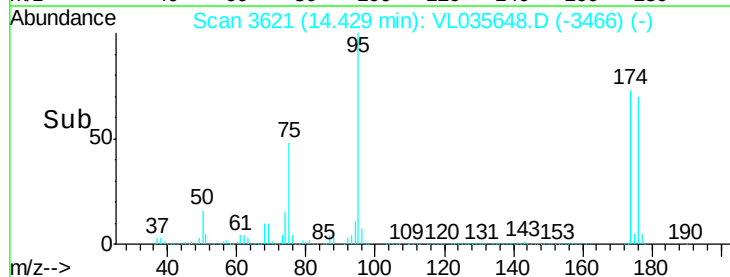
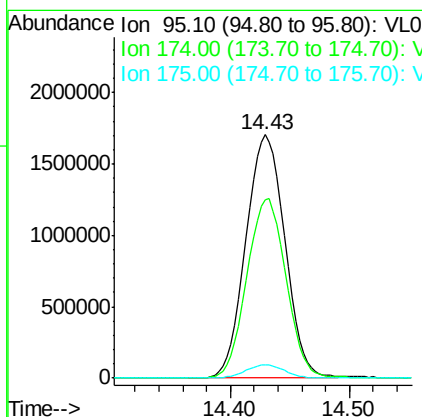
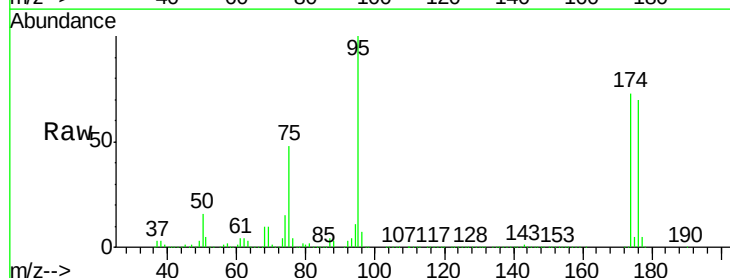
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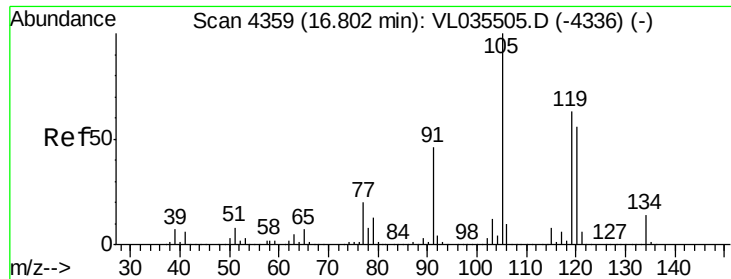
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.560 ppbv
RT: 14.43 min Scan# 3621
Delta R.T. -0.00 min
Lab File: VL035648.D
Acq: 17 Sep 2020 4:13

Tgt Ion: 95 Resp: 3879711
Ion Ratio Lower Upper
95 100
174 74.6 69.6 104.4
175 5.4 5.1 7.7





#74
 1,2,4-Trimethylbenzene
 Concen: 0.131 ppbv
 RT: 16.78 min Scan# 4351
 Delta R.T. -0.00 min
 Lab File: VL035648.D
 Acq: 17 Sep 2020 4:13

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-14DL

Tot Ion	Ratio	Resp Lower	Resp Upper
105	100		
120	51.9	44.4	66.6
91	9.4	37.1	55.7
77	12.6	16.0	24.0

Manual Integrations
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