

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040921\
 Data File : VL036772.D
 Acq On : 9 Apr 2021 13:27
 Operator : SY/AP
 Sample : M1981-02DL 80X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-4DL

Manual Integrations
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 4/12/2021 5:42:40 PM

Quant Time: Apr 10 11:40:52 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1378766	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3328771	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.08	117	2878126	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	1912264	8.34	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	83.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.25	62	36226	0.387	ppbv	96
9) Propene	3.00	41	47680m	0.581	ppbv	
13) Ethanol	3.59	45	22553m	2.306	ppbv	
15) Acetone	3.84	43	868468	6.400	ppbv	98
19) Isopropyl Alcohol	3.96	45	45142m	0.605	ppbv	
27) Carbon Disulfide	4.54	76	21145	0.143	ppbv #	70
31) cis-1,2-Dichloroethene	5.53	61	55227	0.381	ppbv	94
34) 2-Butanone	5.24	43	136308	0.839	ppbv #	88
36) Benzene	6.88	78	45797m	0.149	ppbv	
38) Trichloroethene	7.82	130	77744	0.651	ppbv	92
44) 2,2,4-Trimethylpentane	7.85	57	358979	0.664	ppbv #	72
53) Toluene	9.80	91	47466m	0.145	ppbv	
59) m/p-Xylene	12.96	91	94147m	0.258	ppbv	
60) o-Xylene	13.67	91	65045	0.184	ppbv	97
73) 1,3,5-Trimethylbenzene	15.99	105	38383m	0.106	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	53582m	0.139	ppbv	

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

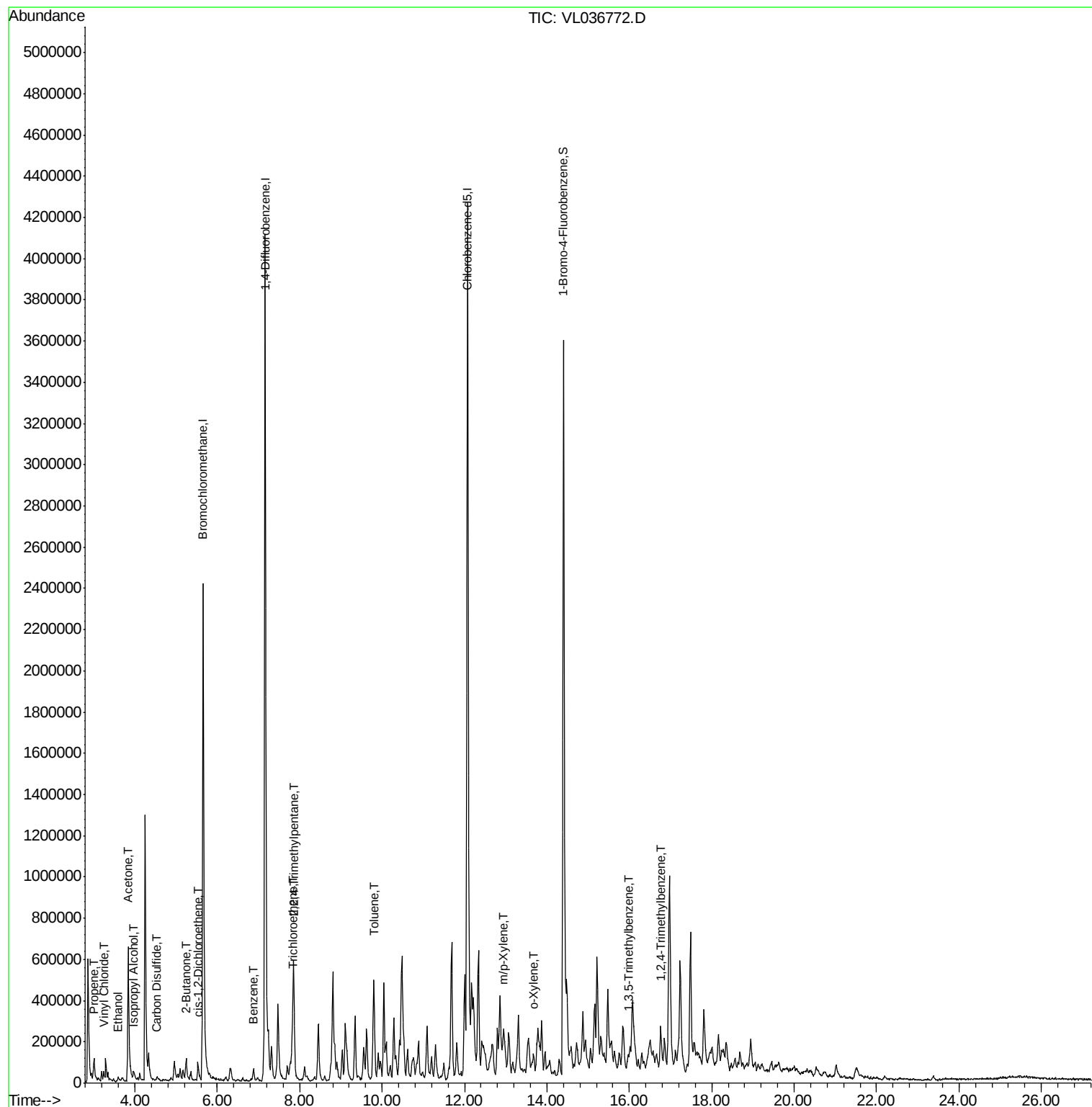
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040921\
Data File : VL036772.D
Acq On : 9 Apr 2021 13:27
Operator : SY/AP
Sample : M1981-02DL 80X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

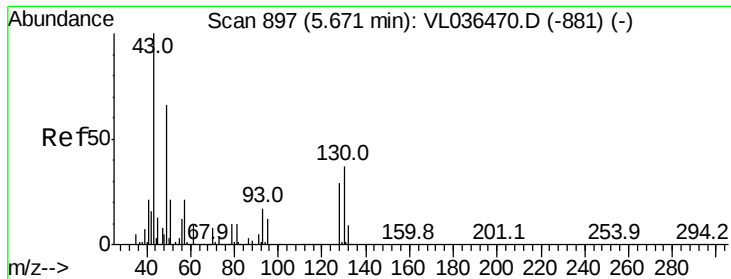
Instrument :
MSVOA_L
ClientSampleId :
SG-4DL

Manual Integrations
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Quant Time: Apr 10 11:40:52 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.02 min

Lab File: VL036772.D

Acq: 9 Apr 2021 13:27

Instrument :

MSVOA_L

ClientSampleId :

SG-4DL

Tot Ion: 49 Resp: 1378766

Ion Ratio Lower Upper

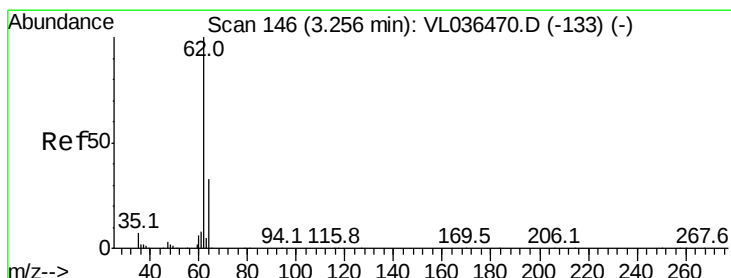
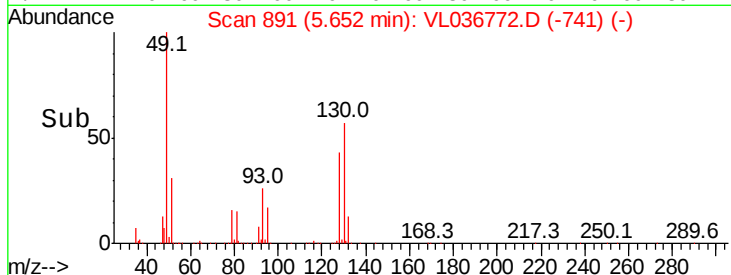
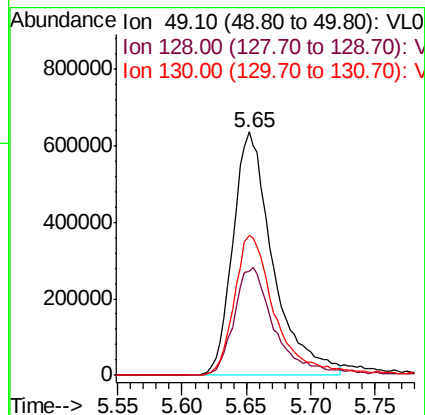
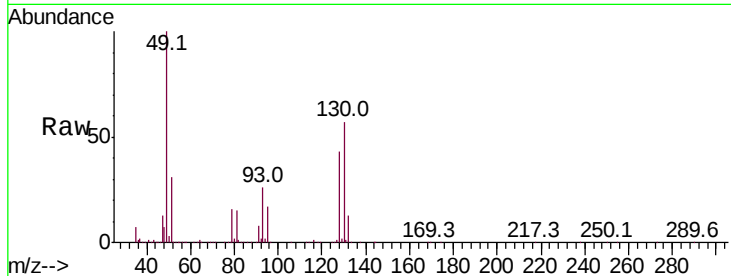
49 100

128 46.1 23.5 70.6

130 60.2 29.1 87.4

Manual Integrations
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#5

Vinyl Chloride

Concen: 0.387 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.01 min

Lab File: VL036772.D

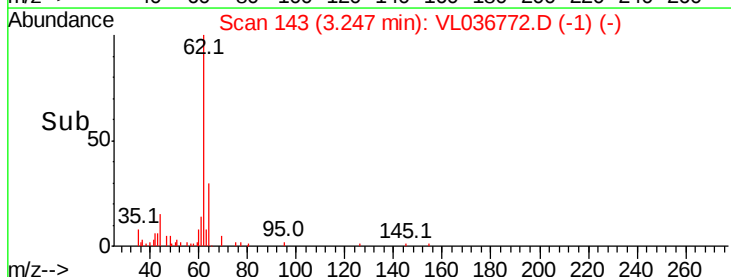
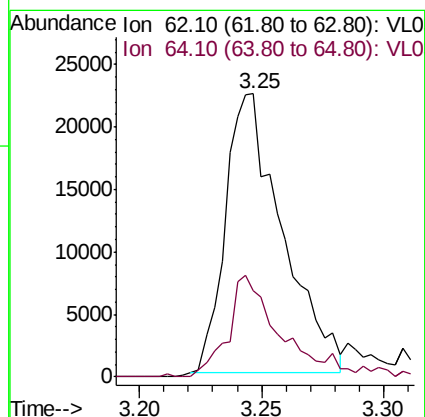
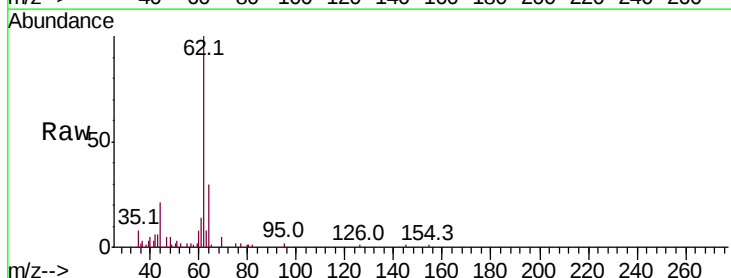
Acq: 9 Apr 2021 13:27

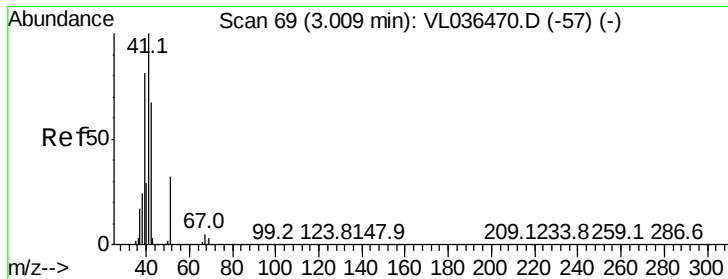
Tgt Ion: 62 Resp: 36226

Ion Ratio Lower Upper

62 100

64 30.8 26.4 39.6





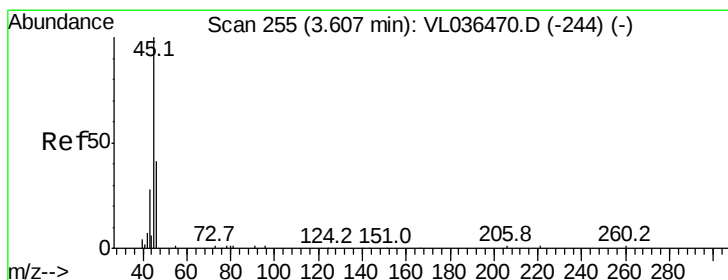
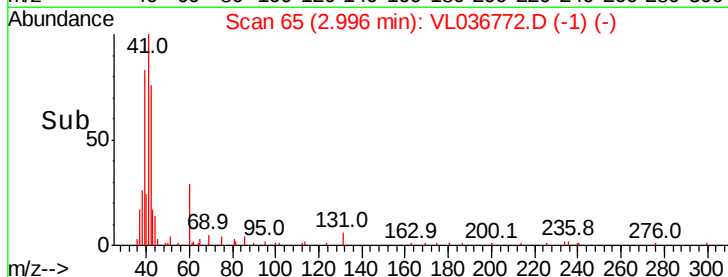
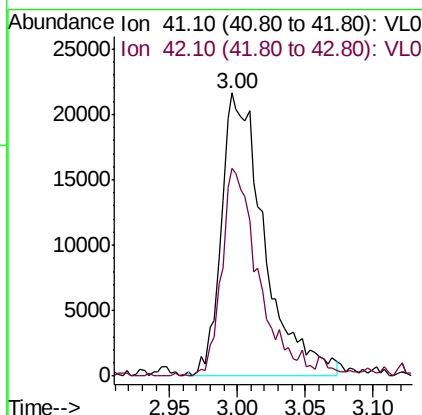
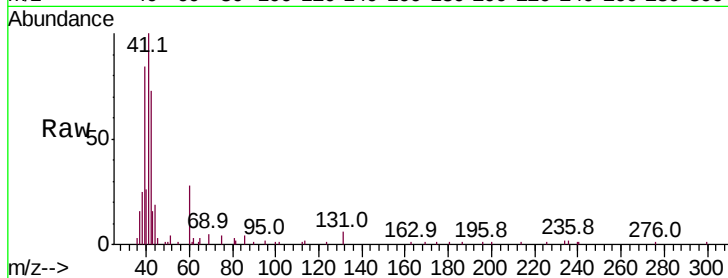
#9
 Propene
 Concen: 0.581 ppbv m
 RT: 3.00 min Scan# 65
 Delta R.T. -0.01 min
 Lab File: VL036772.D
 Acq: 9 Apr 2021 13:27

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-4DL

Tot Ion: 41 Resp: 47680
 Ion Ratio Lower Upper
 41 100
 42 4.0 57.0 85.4#

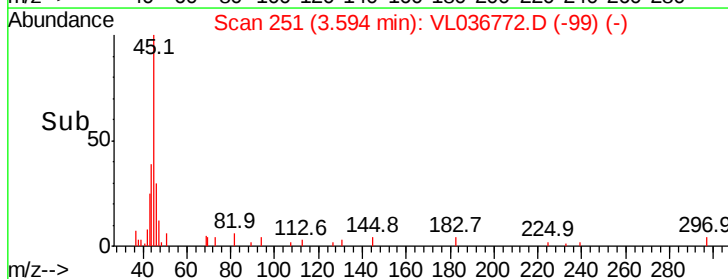
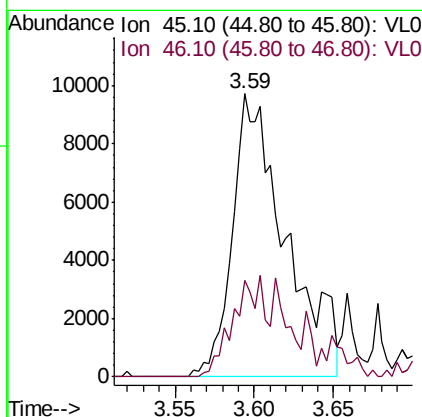
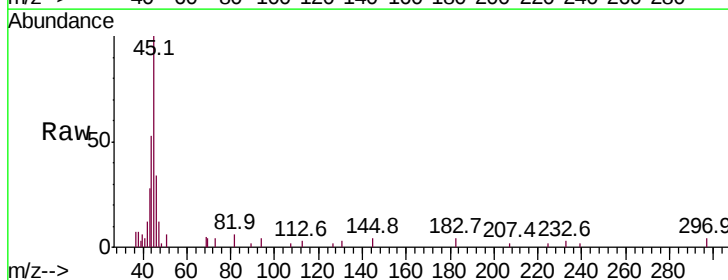
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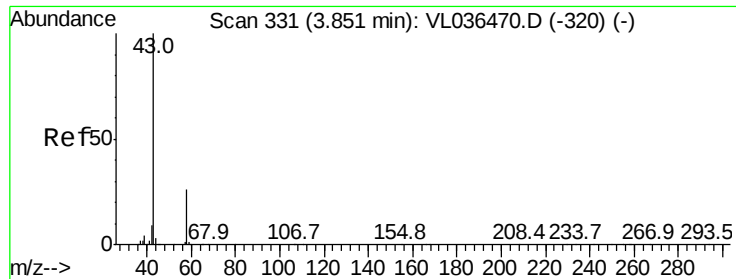
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#13
 Ethanol
 Concen: 2.306 ppbv m
 RT: 3.59 min Scan# 251
 Delta R.T. -0.01 min
 Lab File: VL036772.D
 Acq: 9 Apr 2021 13:27

Tgt Ion: 45 Resp: 22553
 Ion Ratio Lower Upper
 45 100
 46 0.0 16.6 66.2#





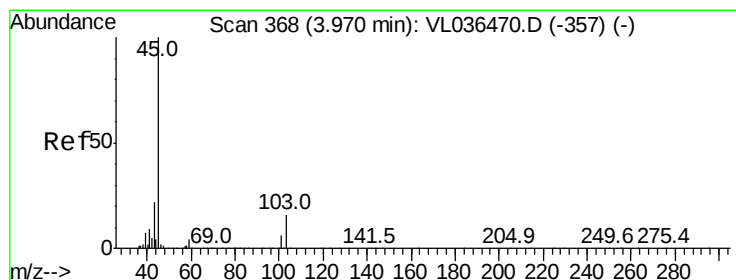
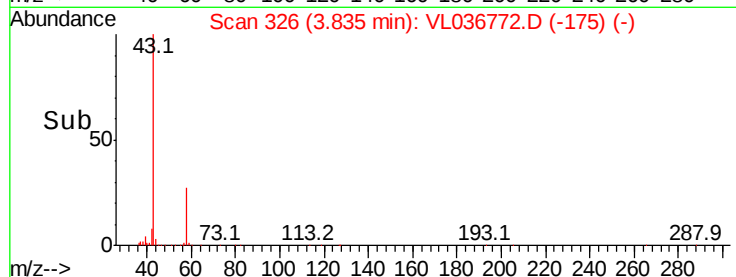
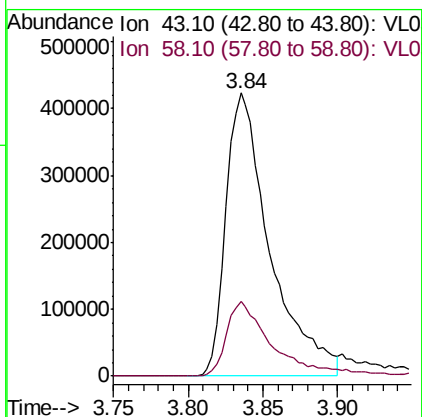
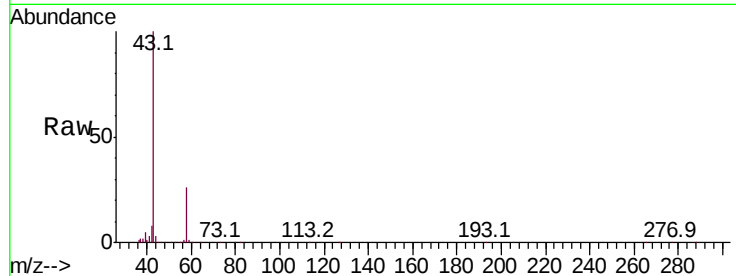
#15
Acetone
Concen: 6.400 ppbv
RT: 3.84 min Scan# 326
Delta R.T. -0.02 min
Lab File: VL036772.D
Acq: 9 Apr 2021 13:27

Instrument :
MSVOA_L
ClientSampleId :
SG-4DL

Tot Ion	Ratio	Lower	Upper
43	100		
58	27.7	21.2	31.8

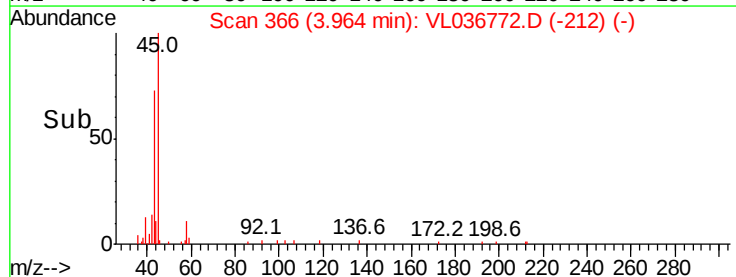
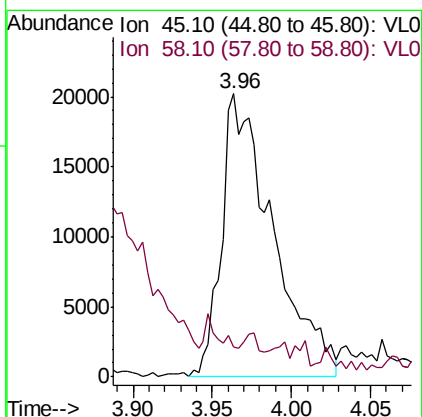
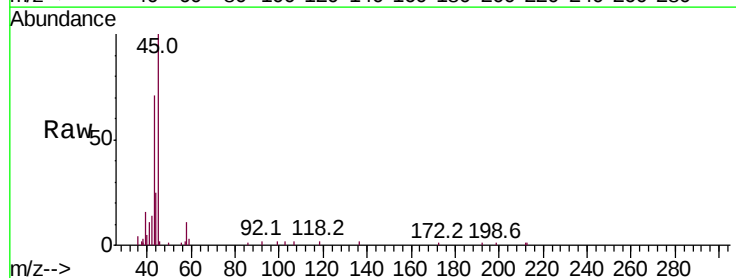
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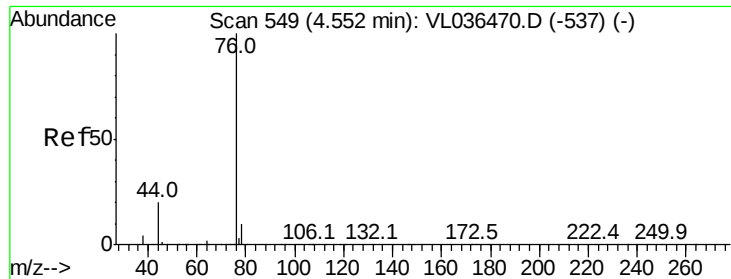
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#19
Isopropyl Alcohol
Concen: 0.605 ppbv m
RT: 3.96 min Scan# 366
Delta R.T. -0.01 min
Lab File: VL036772.D
Acq: 9 Apr 2021 13:27

Tgt Ion	Ratio	Lower	Upper
45	100		
58	21.7	2.9	4.3#





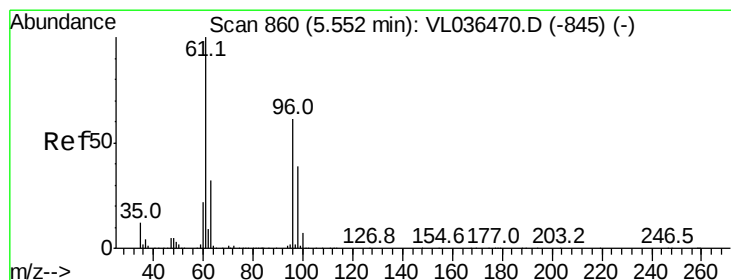
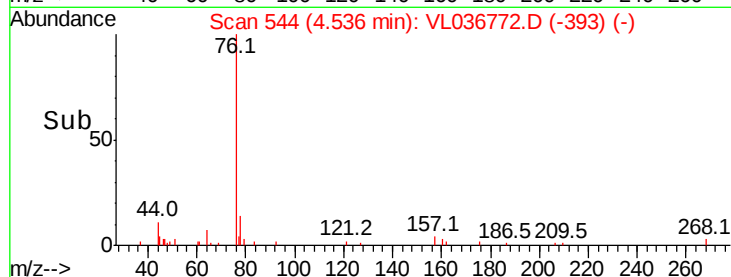
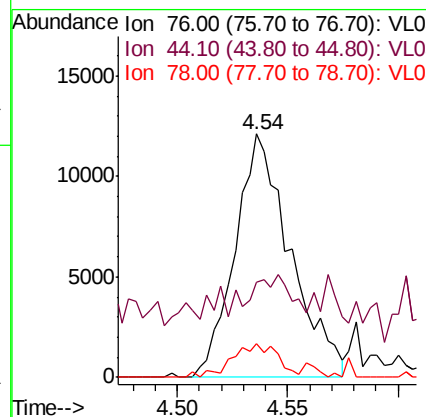
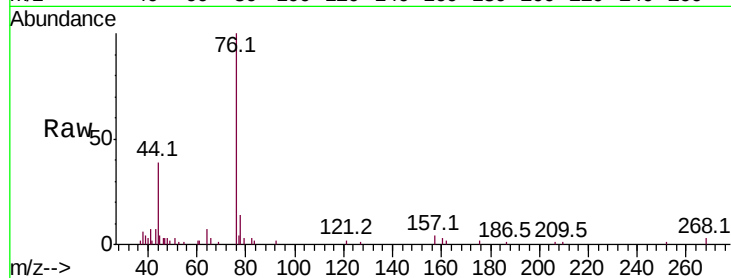
#27
Carbon Disulfide
Concen: 0.143 ppbv
RT: 4.54 min Scan# 544
Delta R.T. -0.02 min
Lab File: VL036772.D
Acq: 9 Apr 2021 13:27

Instrument :
MSVOA_L
ClientSampleId :
SG-4DL

Tot Ion	Ratio	Lower	Upper
76	100		
44	42.3	17.5	26.3#
78	12.7	8.6	13.0

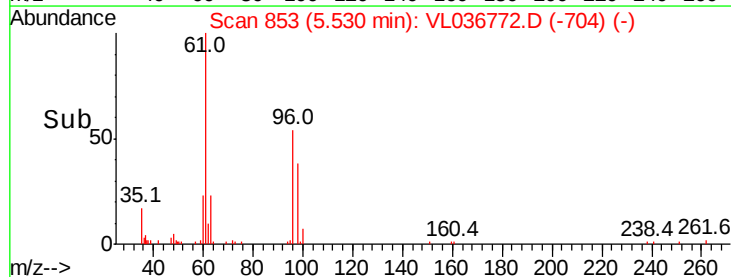
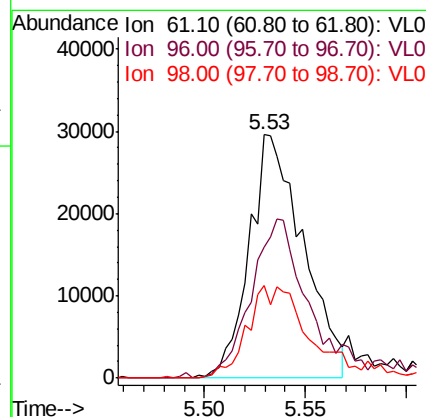
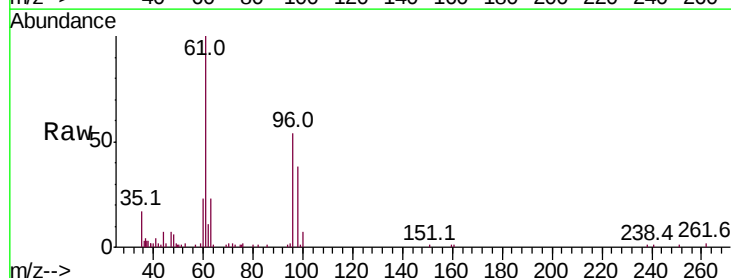
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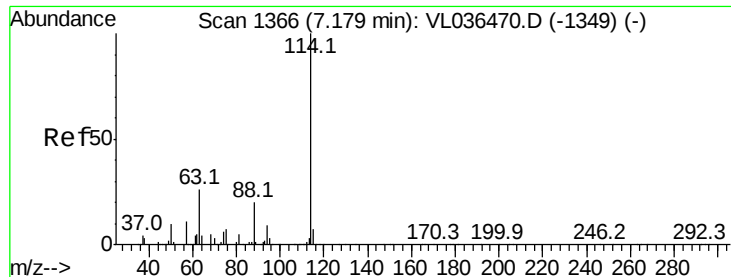
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#31
cis-1,2-Dichloroethene
Concen: 0.381 ppbv
RT: 5.53 min Scan# 853
Delta R.T. -0.02 min
Lab File: VL036772.D
Acq: 9 Apr 2021 13:27

Tgt Ion	Ratio	Lower	Upper
61	100		
96	53.7	48.7	73.1
98	38.1	31.4	47.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.02 min

Lab File: VL036772.D

Acq: 9 Apr 2021 13:27

Instrument :

MSVOA_L

ClientSampleId :

SG-4DL

Tot Ion:114 Resp: 3328771

Ion Ratio Lower Upper

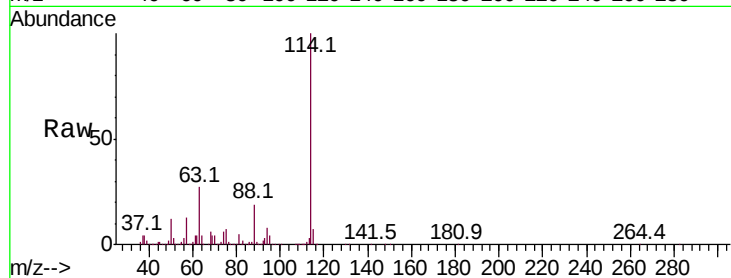
114 100

63 27.3 22.4 33.6

88 18.8 15.4 23.0

Manual Integrations
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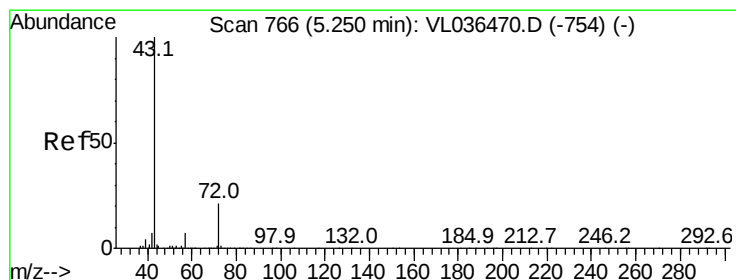
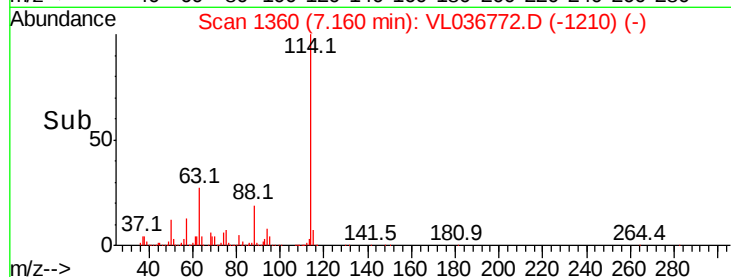
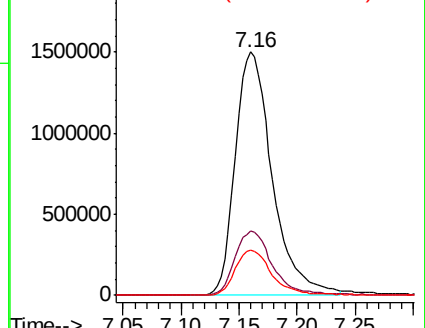
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Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.839 ppbv

RT: 5.24 min Scan# 762

Delta R.T. -0.01 min

Lab File: VL036772.D

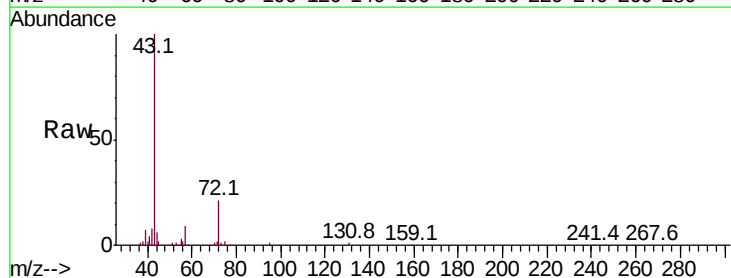
Acq: 9 Apr 2021 13:27

Tgt Ion: 43 Resp: 136308

Ion Ratio Lower Upper

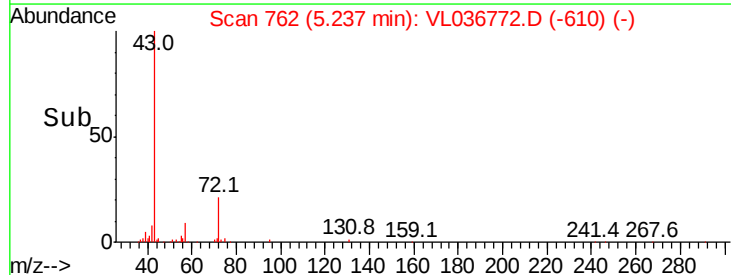
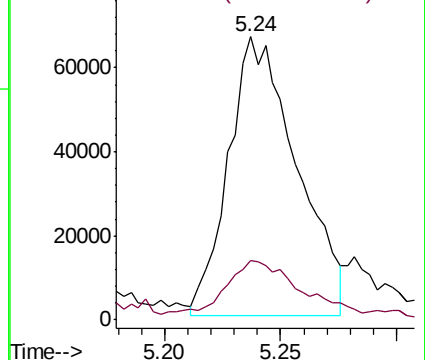
43 100

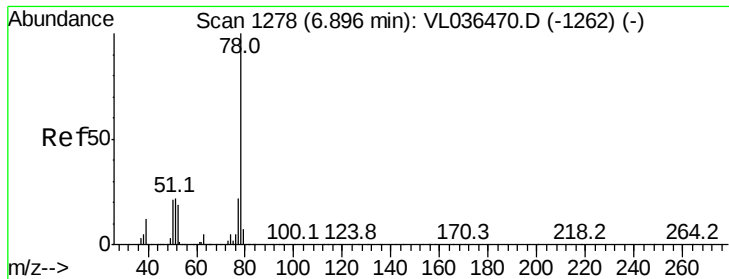
72 26.8 17.0 25.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

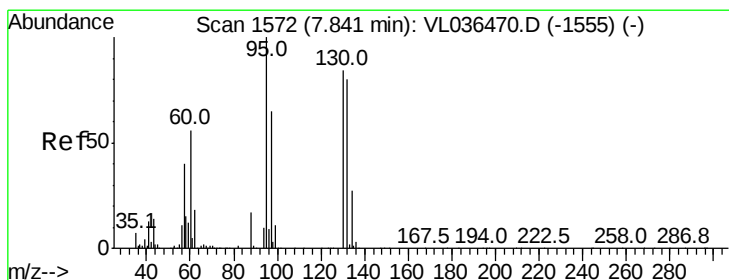
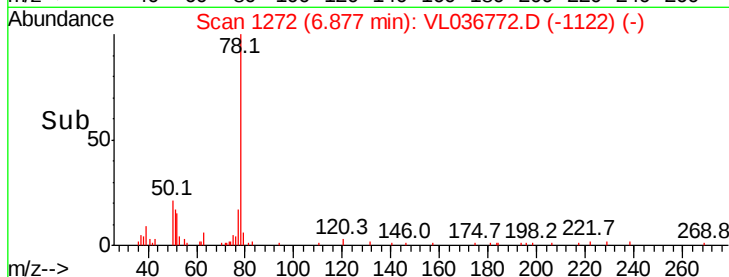
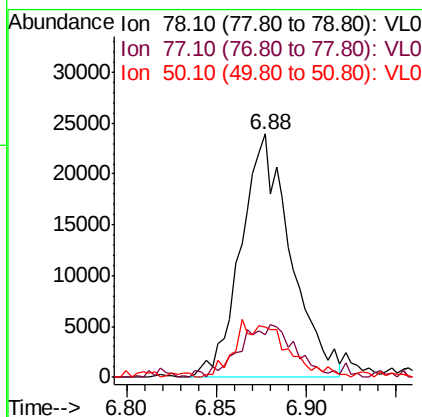
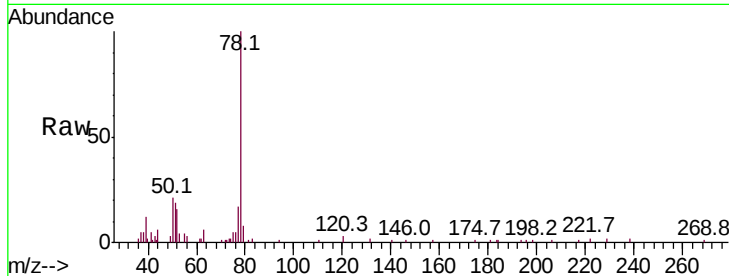
Concen: 0.149 ppbv m
 RT: 6.88 min Scan# 1272
 Delta R.T. -0.02 min
 Lab File: VL036772.D
 Acq: 9 Apr 2021 13:27

Instrument :
 MSVOA_L
 ClientSampled :
 SG-4DL

Tot Ion	Ratio	Lower	Upper
78	100		
77	17.5	18.0	27.0#
50	20.9	16.5	24.7

Manual Integrations
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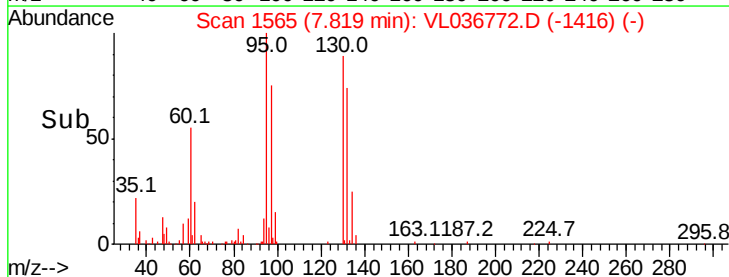
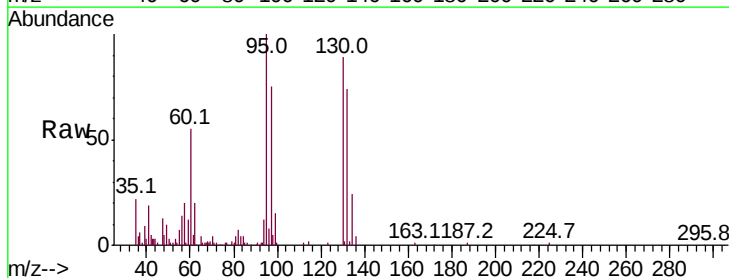
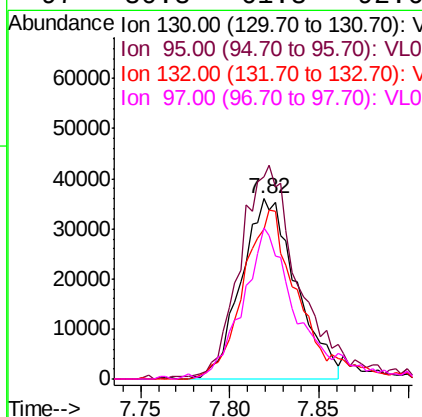


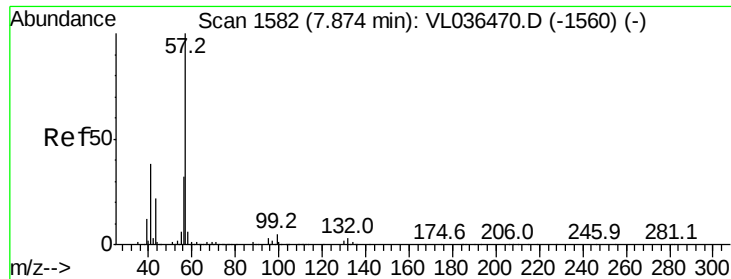
#38

Trichloroethene

Concen: 0.651 ppbv
 RT: 7.82 min Scan# 1565
 Delta R.T. -0.02 min
 Lab File: VL036772.D
 Acq: 9 Apr 2021 13:27

Tgt Ion	Ratio	Lower	Upper
130	100		
95	110.9	95.7	143.5
132	82.9	76.2	114.4
97	80.8	61.8	92.6





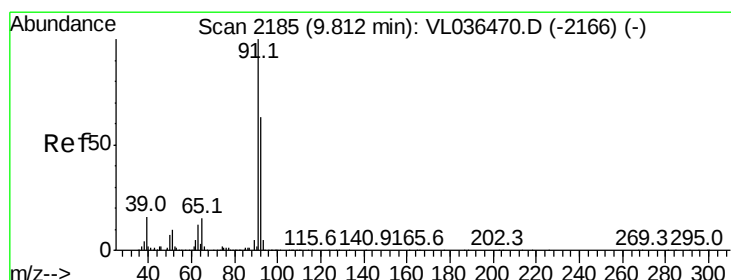
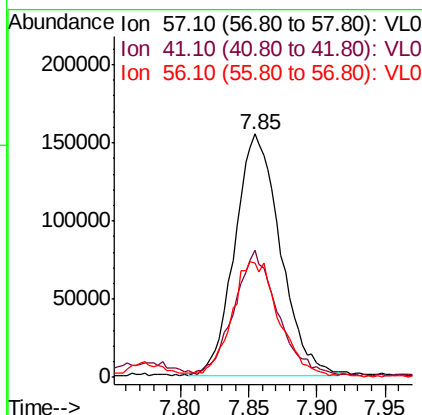
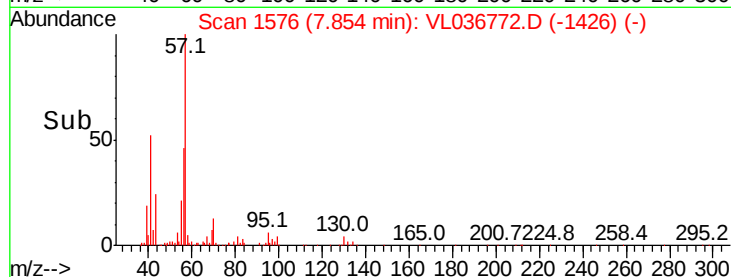
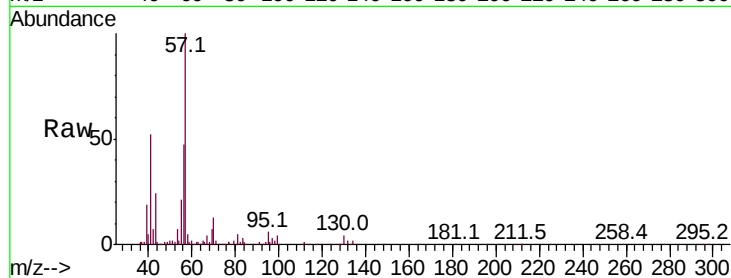
#44
 2,2,4-Trimethylpentane
 Concen: 0.664 ppbv
 RT: 7.85 min Scan# 1576
 Delta R.T. -0.02 min
 Lab File: VL036772.D
 Acq: 9 Apr 2021 13:27

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-4DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	51.1	28.8	43.2#
56	50.0	26.1	39.1#

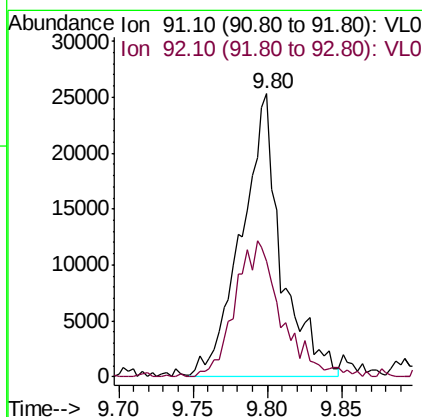
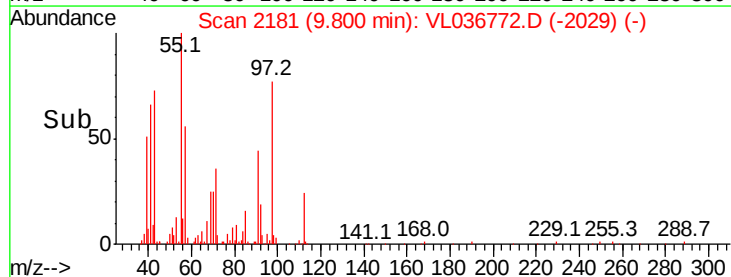
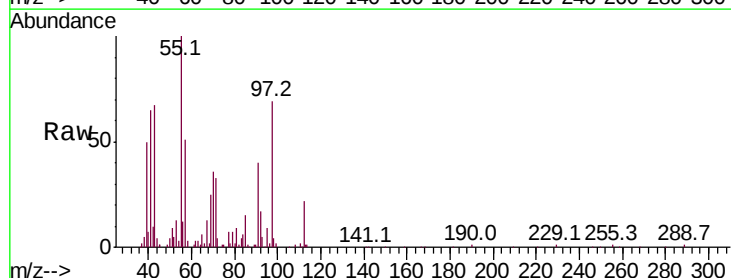
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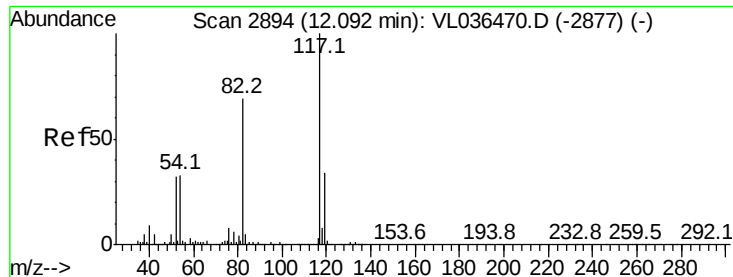
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 4/12/2021 5:42:40 PM



#53
 Toluene
 Concen: 0.145 ppbv m
 RT: 9.80 min Scan# 2181
 Delta R.T. -0.01 min
 Lab File: VL036772.D
 Acq: 9 Apr 2021 13:27

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.7	48.8	73.2





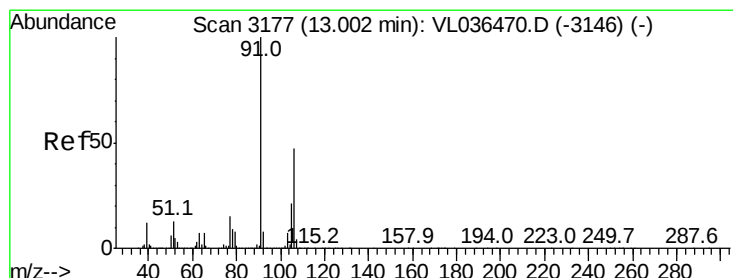
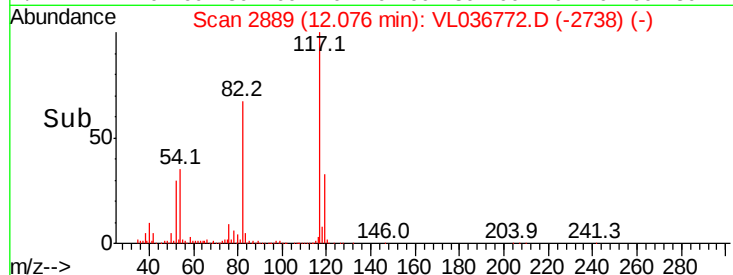
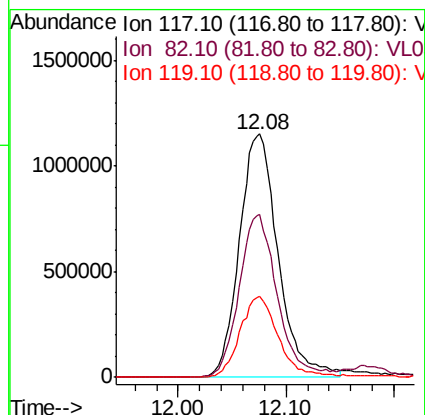
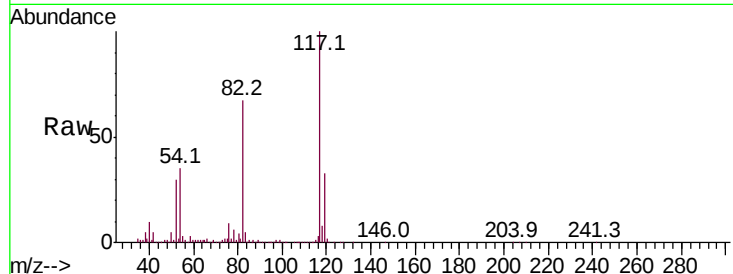
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2889
Delta R.T. -0.02 min
Lab File: VL036772.D
Acq: 9 Apr 2021 13:27

Instrument :
MSVOA_L
ClientSampleId :
SG-4DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.8	57.4	86.0
119	33.7	47.4	71.0

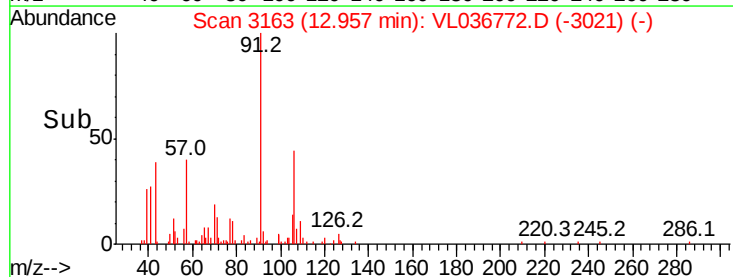
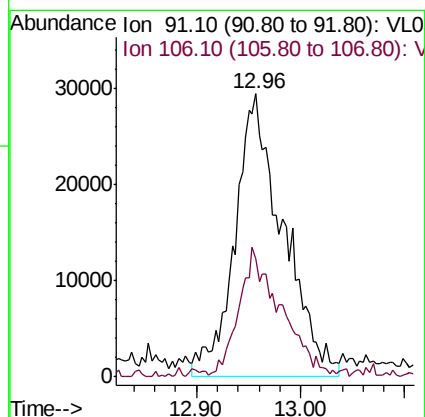
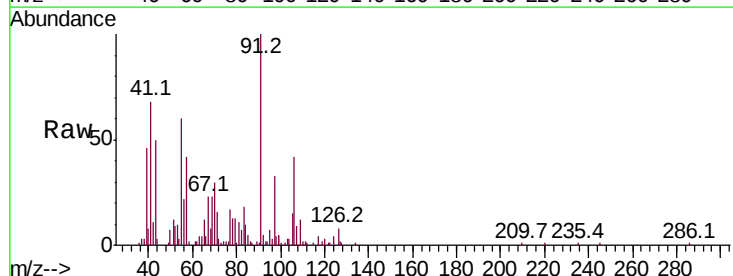
Manual Integrations
APPROVED

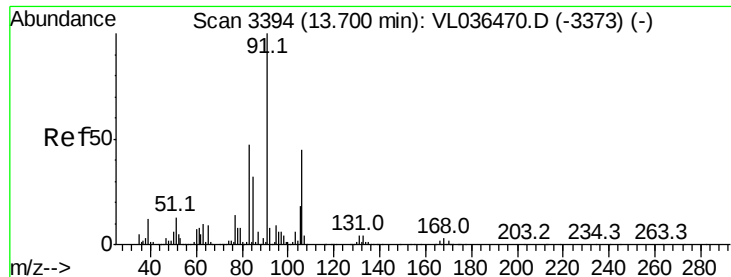
MMDadoda
4/12/2021 5:42:40 PM



#59
m/p-Xylene
Concen: 0.258 ppbv m
RT: 12.96 min Scan# 3163
Delta R.T. -0.04 min
Lab File: VL036772.D
Acq: 9 Apr 2021 13:27

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.3	52.9





#60

o-Xylene

Concen: 0.184 ppbv

RT: 13.67 min Scan# 3386

Delta R.T. -0.03 min

Lab File: VL036772.D

Acq: 9 Apr 2021 13:27

Instrument :

MSVOA_L

ClientSampled :

SG-4DL

Tot Ion: 91 Resp: 65045

Ion Ratio Lower Upper

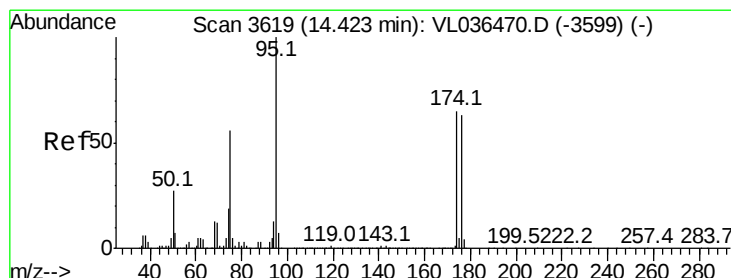
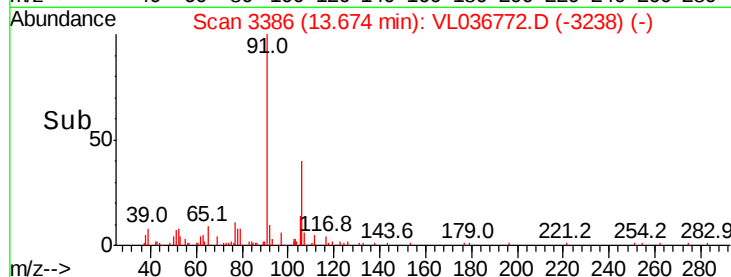
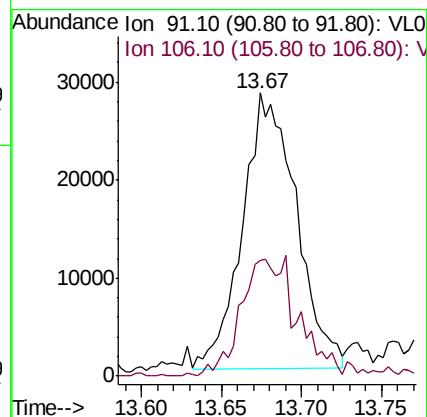
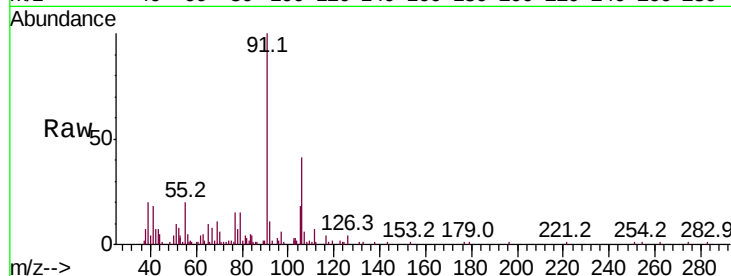
91 100

106 46.6 22.3 66.9

Manual Integrations
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#68

1-Bromo-4-Fluorobenzene

Concen: 8.336 ppbv

RT: 14.40 min Scan# 3613

Delta R.T. -0.02 min

Lab File: VL036772.D

Acq: 9 Apr 2021 13:27

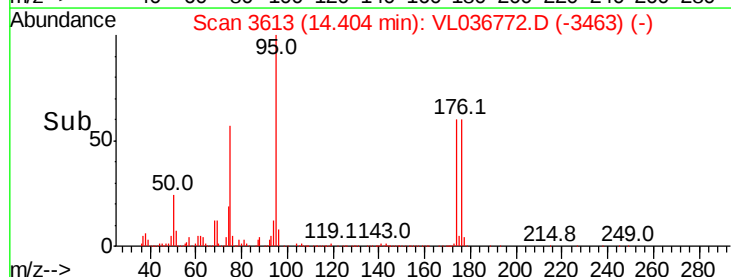
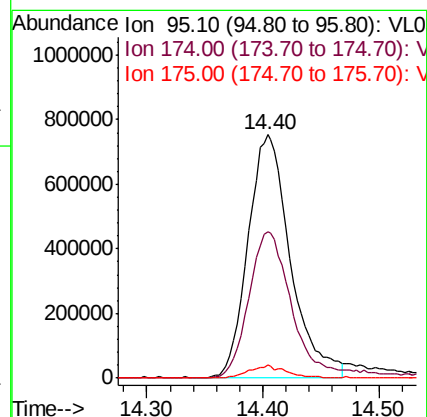
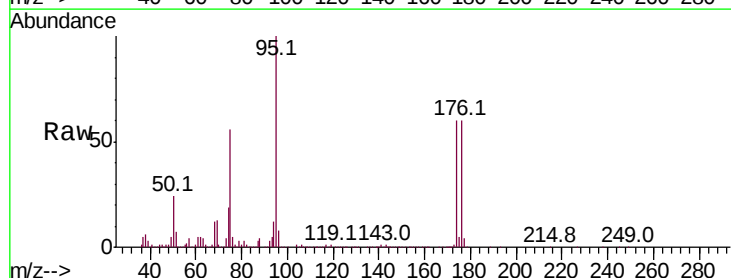
Tgt Ion: 95 Resp: 1912264

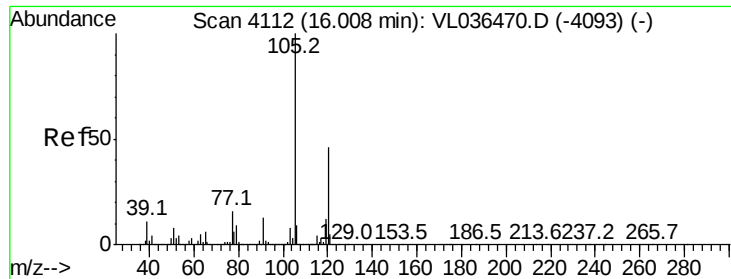
Ion Ratio Lower Upper

95 100

174 65.3 51.0 76.6

175 4.9 3.9 5.9





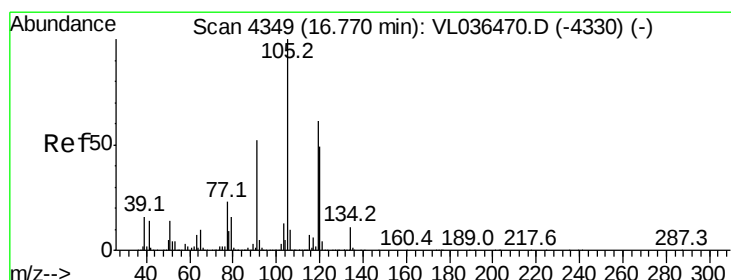
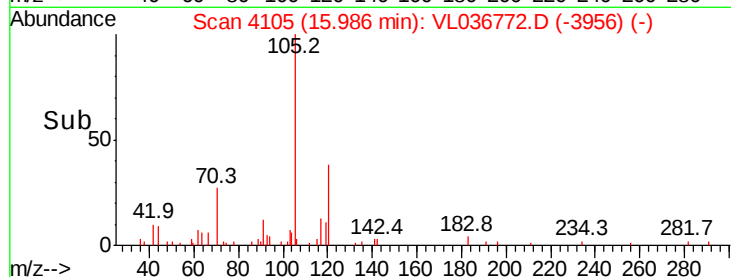
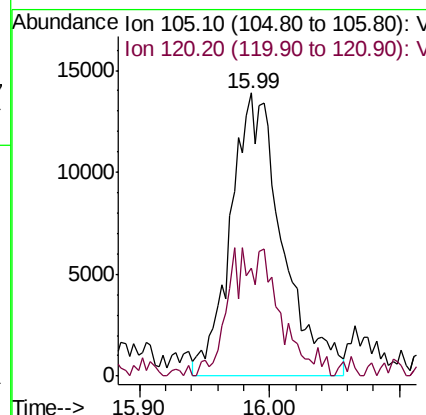
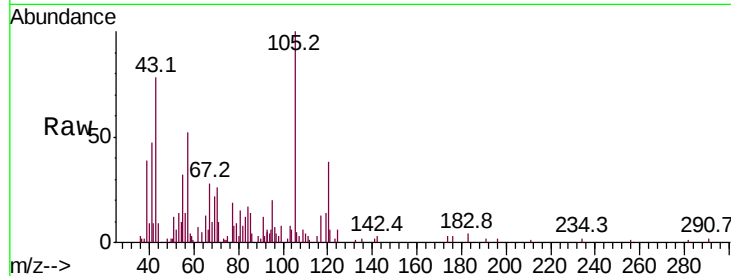
#73
 1,3,5-Trimethylbenzene
 Concen: 0.106 ppbv m
 RT: 15.99 min Scan# 4105
 Delta R.T. -0.02 min
 Lab File: VL036772.D
 Acq: 9 Apr 2021 13:27

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-4DL

Tot Ion	Ratio	Lower	Upper
105	100		
120	38.0	36.6	54.8

Manual Integrations
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 4/12/2021 5:42:40 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.139 ppbv m
 RT: 16.75 min Scan# 4343
 Delta R.T. -0.02 min
 Lab File: VL036772.D
 Acq: 9 Apr 2021 13:27

Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.6	39.2	58.8
91	22.6	42.6	64.0#
77	22.3	18.6	28.0

