

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090921\
 Data File : VL037597.D
 Acq On : 9 Sep 2021 14:03
 Operator : SY/AP
 Sample : M3663-05DL 20X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-2DL

Manual Integrations
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Quant Time: Sep 10 09:04:06 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 10 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1559476	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	4467836	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	3912168	10.00	ppbv	0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2740985	9.86	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.02	41	158957	1.488	ppbv	87
15) Acetone	3.86	43	1153659	7.269	ppbv	95
17) tert-Butyl alcohol	4.31	59	93555m	0.645	ppbv	
27) Carbon Disulfide	4.56	76	43093m	0.245	ppbv	
32) 1,1,1-Trichloroethane	6.52	97	34242m	0.125	ppbv	
34) 2-Butanone	5.26	43	152639	0.837	ppbv #	74
36) Benzene	6.90	78	42842m	0.114	ppbv	
38) Trichloroethene	7.84	130	879579	5.708	ppbv	93
52) Tetrachloroethene	11.24	164	1329513	8.638	ppbv	98
53) Toluene	9.82	91	883843	2.061	ppbv	100
58) Ethyl Benzene	12.72	91	162273	0.299	ppbv	94
59) m/p-Xylene	12.98	91	471194m	1.001	ppbv	
60) o-Xylene	13.70	91	151476	0.345	ppbv	99
74) 1,2,4-Trimethylbenzene	16.77	105	125683m	0.243	ppbv	

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

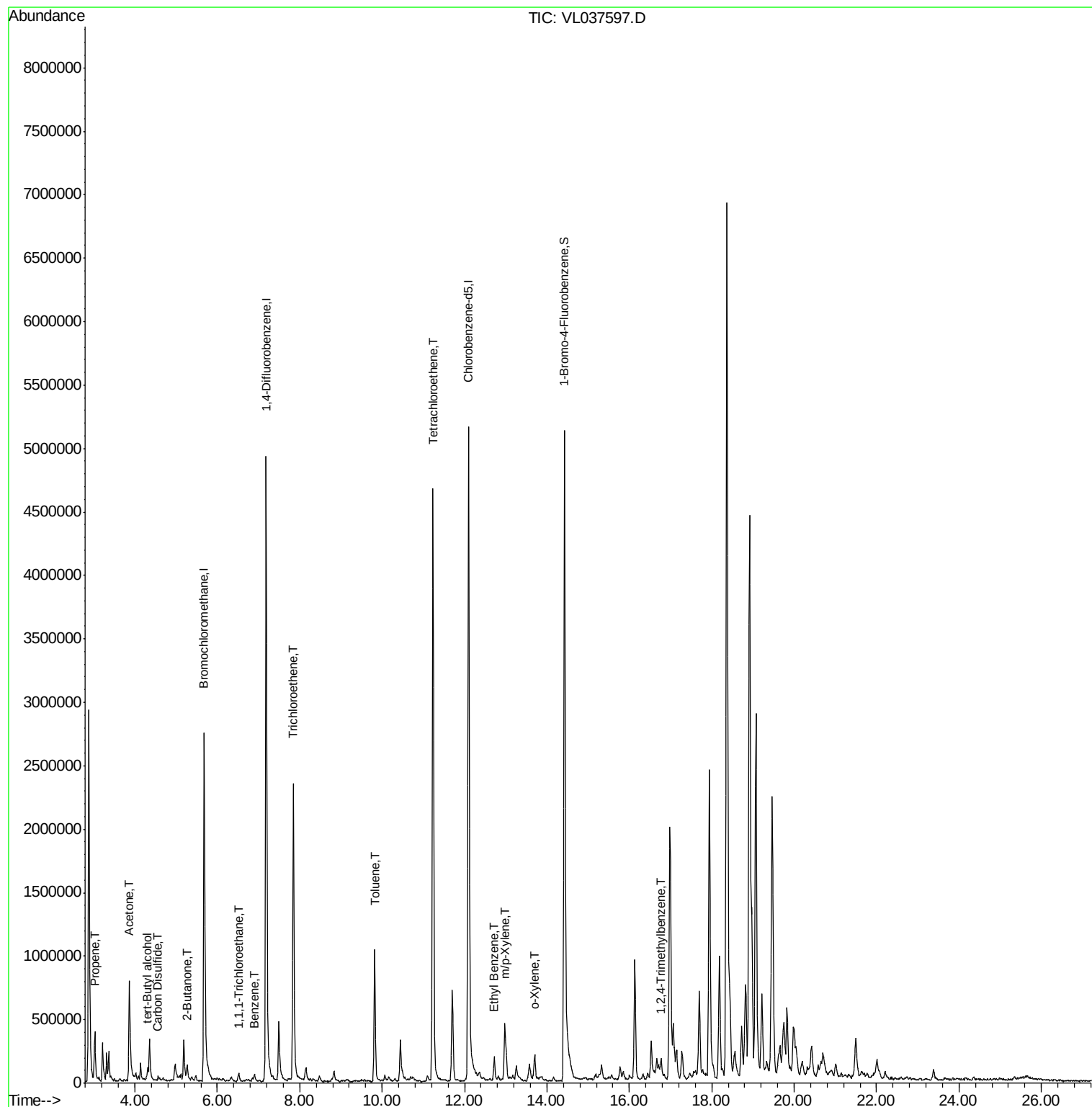
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090921\
Data File : VL037597.D
Acq On : 9 Sep 2021 14:03
Operator : SY/AP
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Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

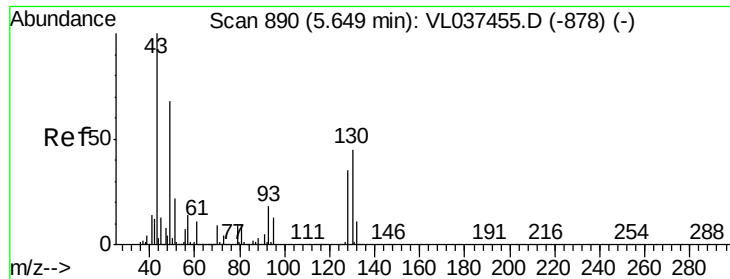
Instrument :
MSVOA_L
ClientSampleId :
SV-2DL

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Quant Time: Sep 10 09:04:06 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Aug
QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





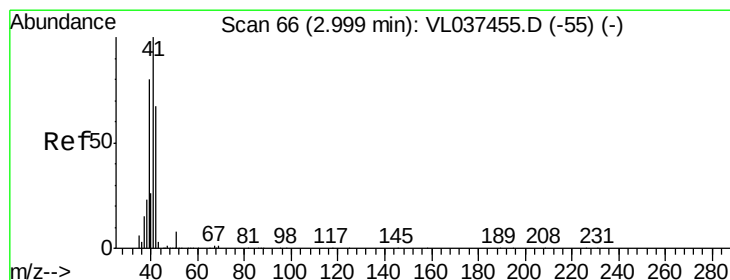
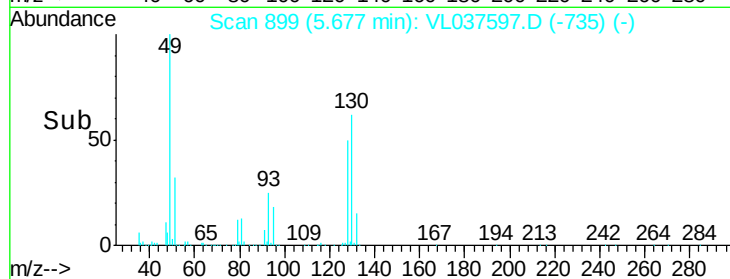
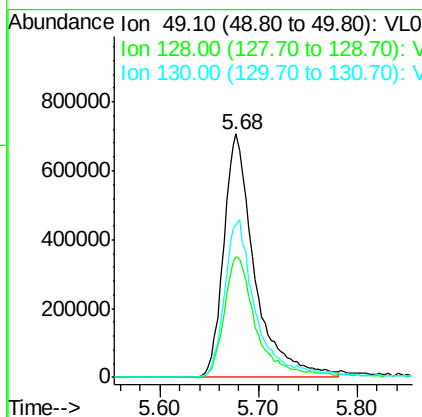
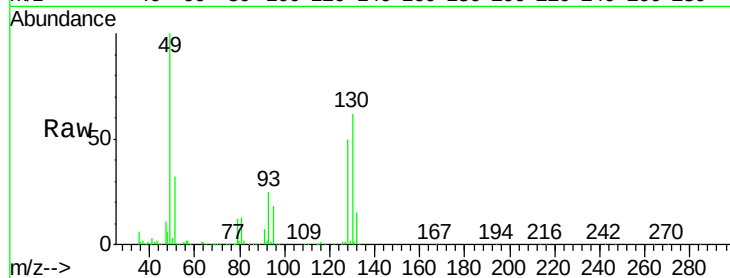
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.03 min
Lab File: VL037597.D
Acq: 9 Sep 2021 14:03

Instrument :
MSVOA_L
ClientSampleId :
SV-2DL

Tot Ion: 49 Resp: 1559476
Ion Ratio Lower Upper
49 100
128 52.2 27.5 82.4
130 66.4 34.0 101.8

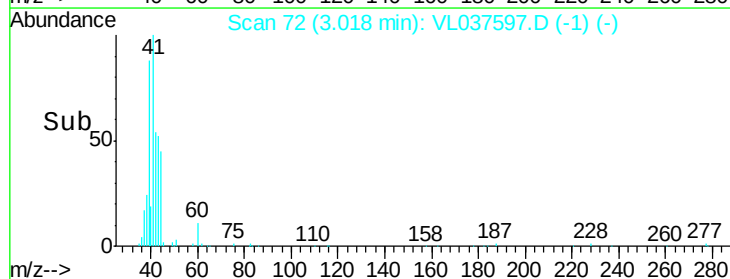
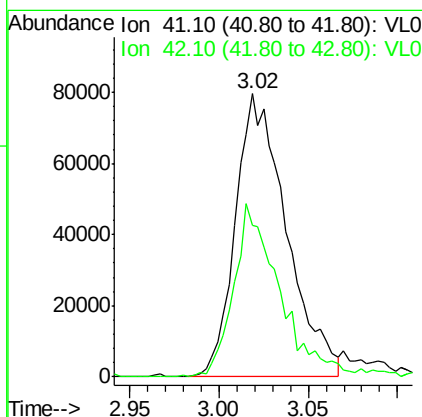
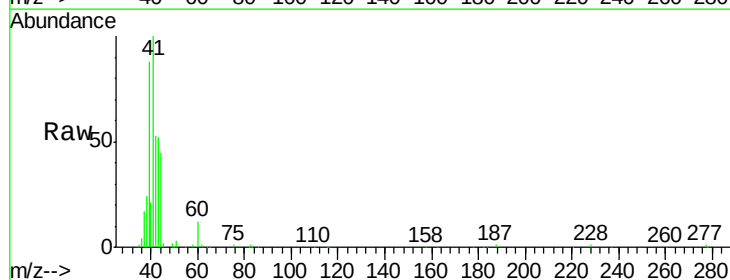
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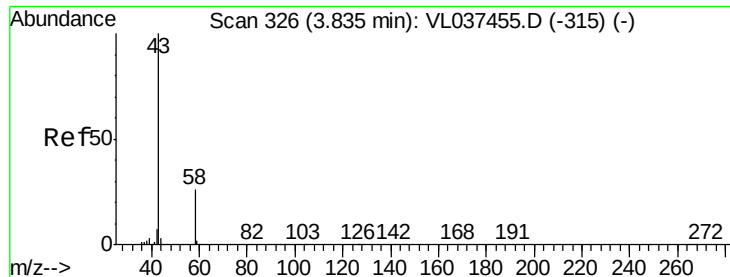
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#9
Propene
Concen: 1.488 ppbv
RT: 3.02 min Scan# 72
Delta R.T. 0.02 min
Lab File: VL037597.D
Acq: 9 Sep 2021 14:03

Tgt Ion: 41 Resp: 158957
Ion Ratio Lower Upper
41 100
42 56.4 53.7 80.5





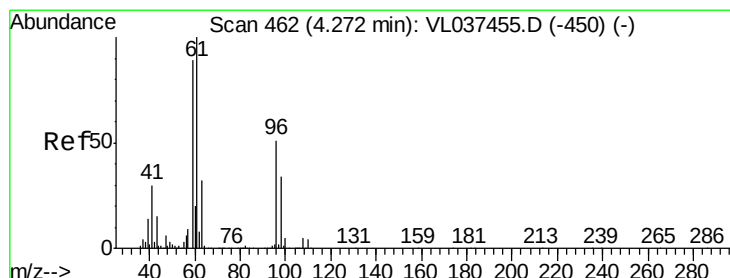
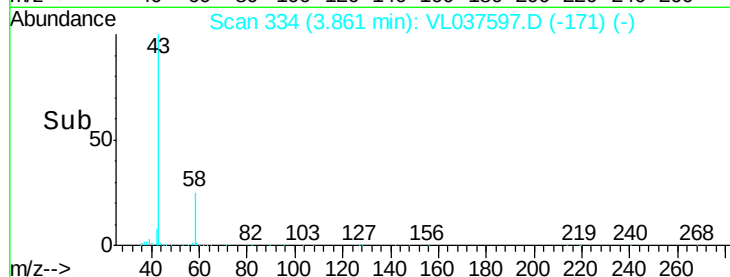
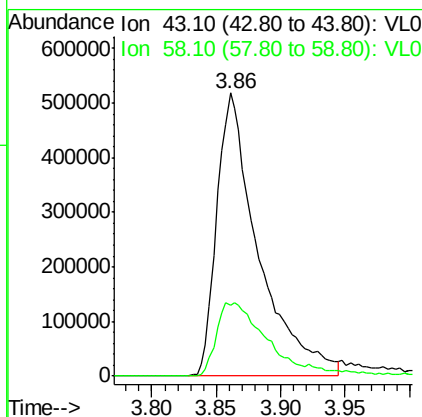
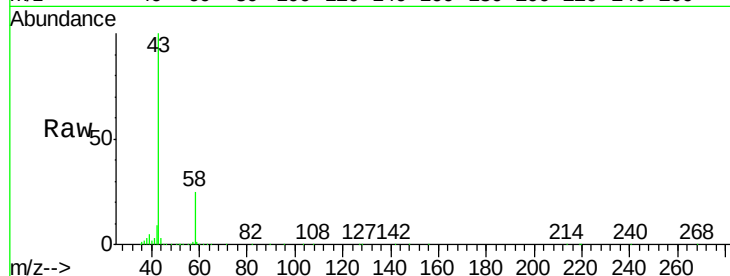
#15
Acetone
Concen: 7.269 ppbv
RT: 3.86 min Scan# 334
Delta R.T. 0.03 min
Lab File: VL037597.D
Acq: 9 Sep 2021 14:03

Instrument :
MSVOA_L
ClientSampled :
SV-2DL

Tot Ion: 43 Resp: 1153659
Ion Ratio Lower Upper
43 100
58 33.8 24.8 37.2

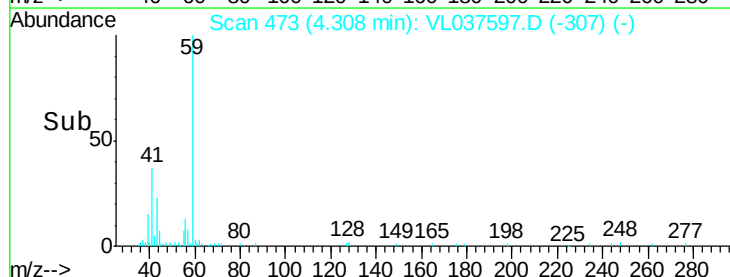
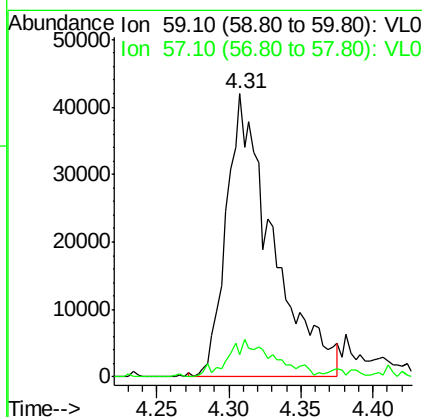
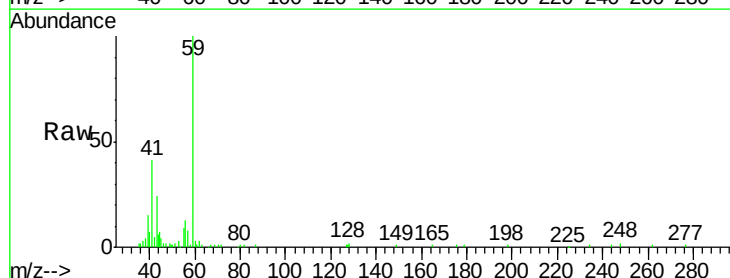
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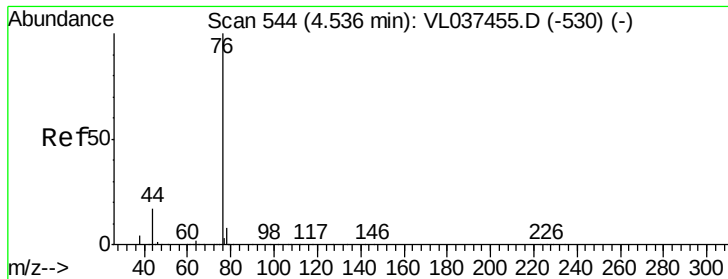
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#17
tert-Butyl alcohol
Concen: 0.645 ppbv m
RT: 4.31 min Scan# 473
Delta R.T. 0.04 min
Lab File: VL037597.D
Acq: 9 Sep 2021 14:03

Tgt Ion: 59 Resp: 93555
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#27

Carbon Disulfide

Concen: 0.245 ppbv m

RT: 4.56 min Scan# 553

Delta R.T. 0.03 min

Lab File: VL037597.D

Acq: 9 Sep 2021 14:03

Instrument :

MSVOA_L

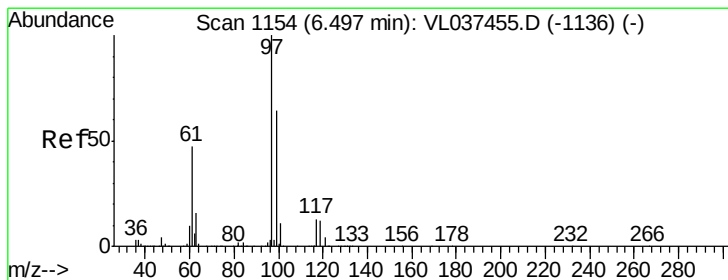
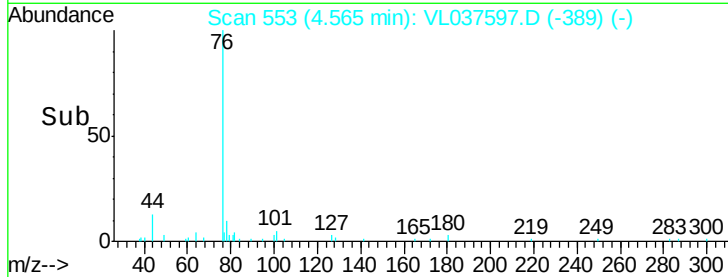
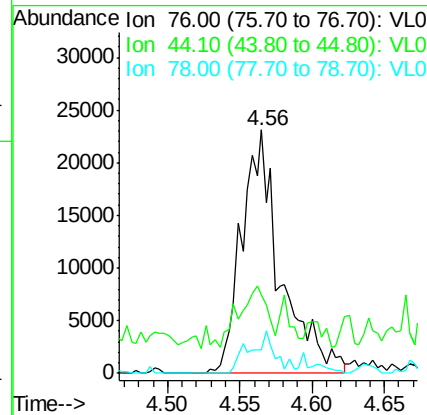
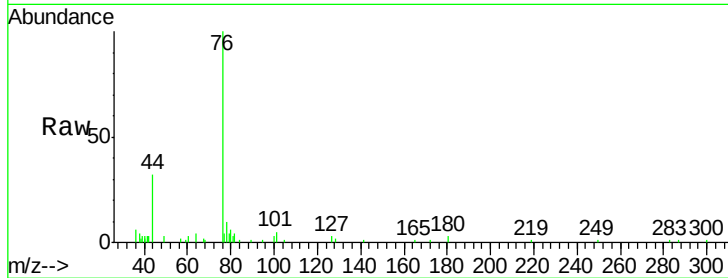
ClientSampleId :

SV-2DL

Tot Ion:	76	Resp:	43093
Ion	Ratio	Lower	Upper
76	100		
44	0.0	13.9	20.9#
78	0.0	7.9	11.9#

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#32

1,1,1-Trichloroethane

Concen: 0.125 ppbv m

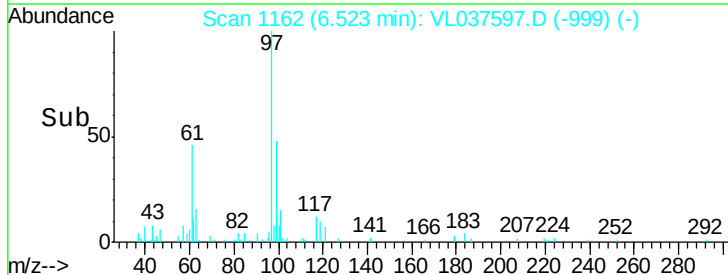
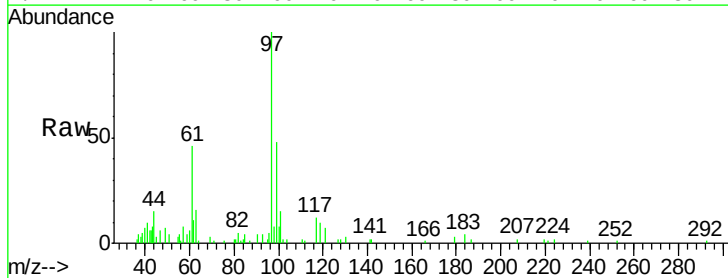
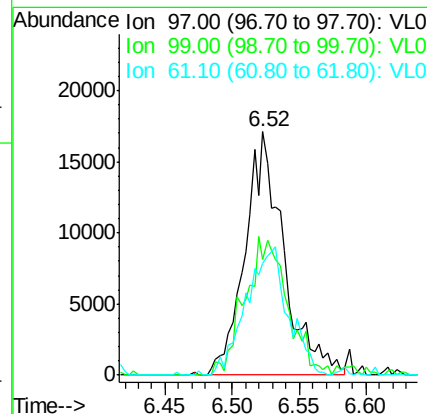
RT: 6.52 min Scan# 1162

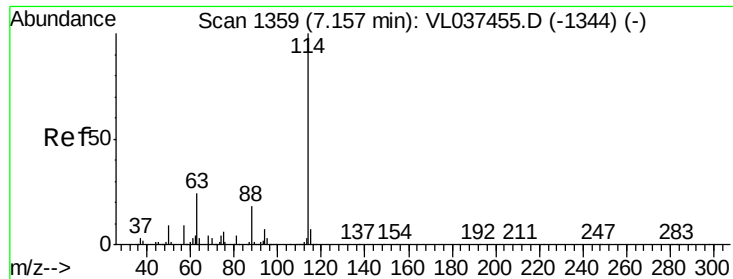
Delta R.T. 0.03 min

Lab File: VL037597.D

Acq: 9 Sep 2021 14:03

Tgt Ion:	97	Resp:	34242
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.8	77.6#
61	58.0	39.6	59.4





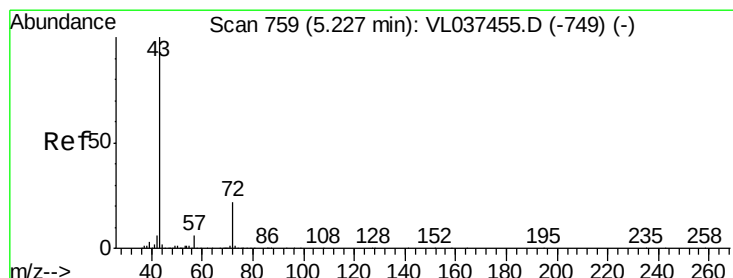
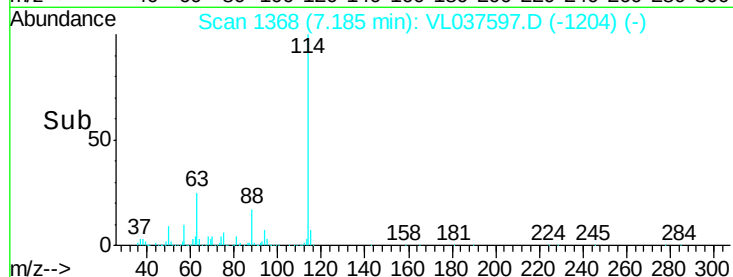
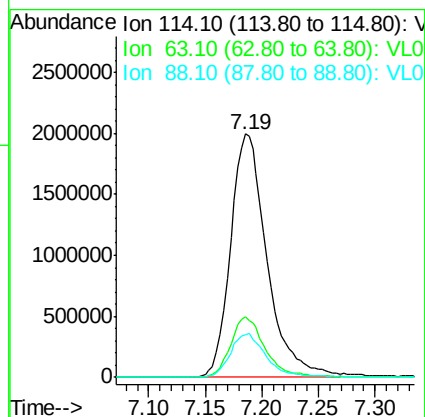
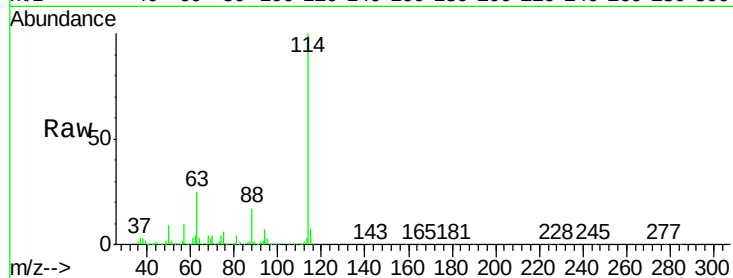
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. 0.03 min
 Lab File: VL037597.D
 Acq: 9 Sep 2021 14:03

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-2DL

Tot Ion:114 Resp: 4467836
 Ion Ratio Lower Upper
 114 100
 63 24.2 19.3 28.9
 88 17.9 14.2 21.4

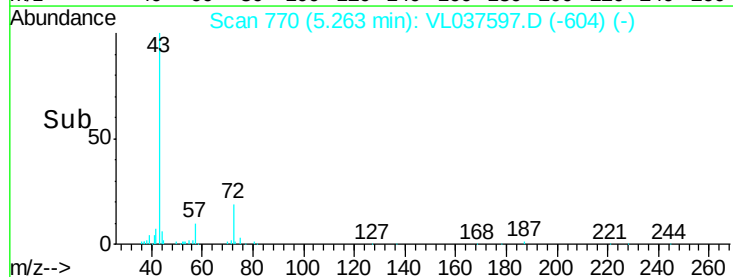
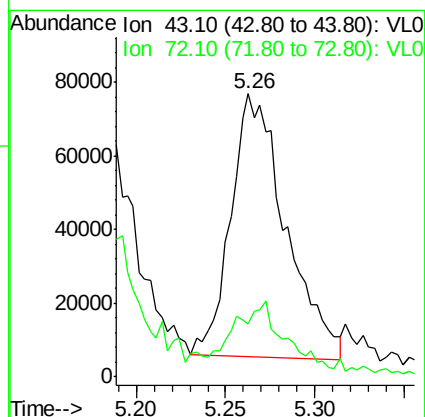
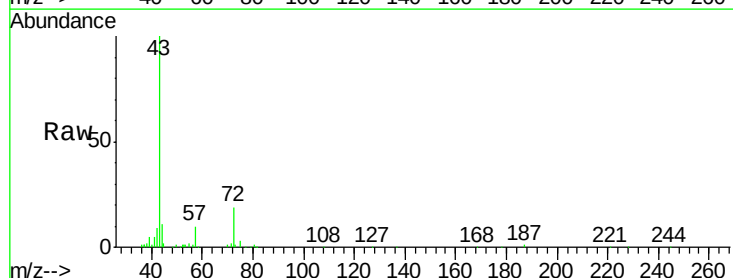
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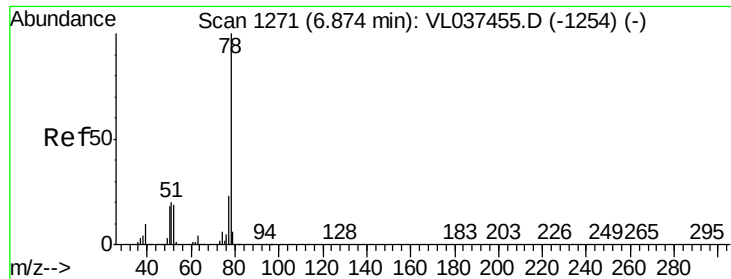
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#34
 2-Butanone
 Concen: 0.837 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T. 0.04 min
 Lab File: VL037597.D
 Acq: 9 Sep 2021 14:03

Tgt Ion: 43 Resp: 152639
 Ion Ratio Lower Upper
 43 100
 72 33.9 17.4 26.0#





#36

Benzene

Concen: 0.114 ppbv m

RT: 6.90 min Scan# 1280

Delta R.T. 0.03 min

Lab File: VL037597.D

Acq: 9 Sep 2021 14:03

Instrument :

MSVOA_L

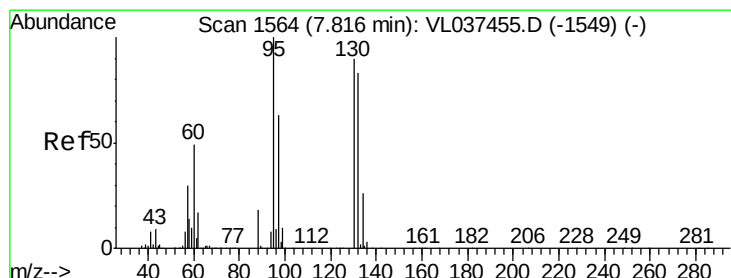
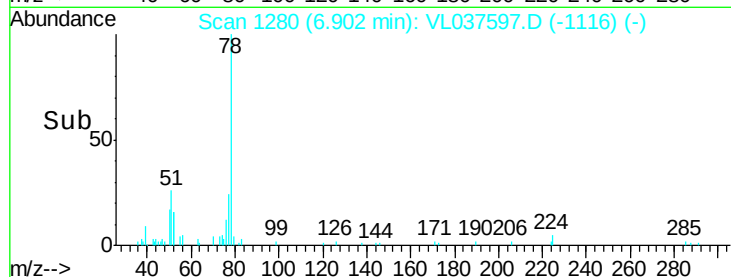
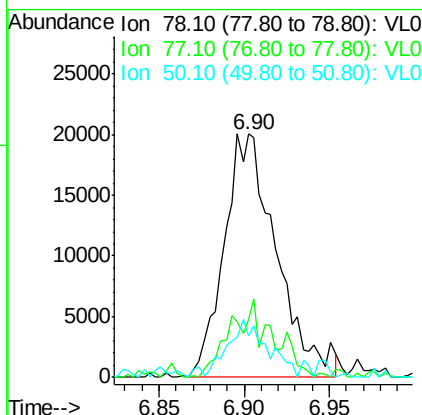
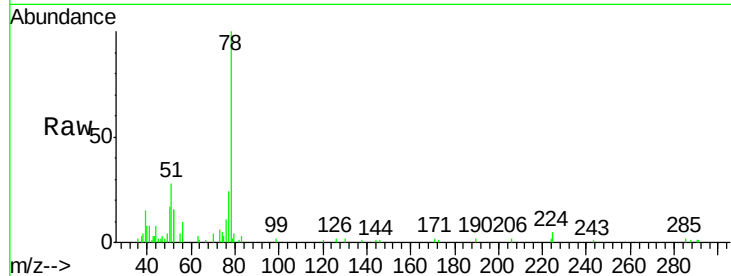
ClientSampled :

SV-2DL

Tot Ion:	78	Resp:	42842
Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.2	27.4
50	16.8	14.6	21.8

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#38

Trichloroethene

Concen: 5.708 ppbv

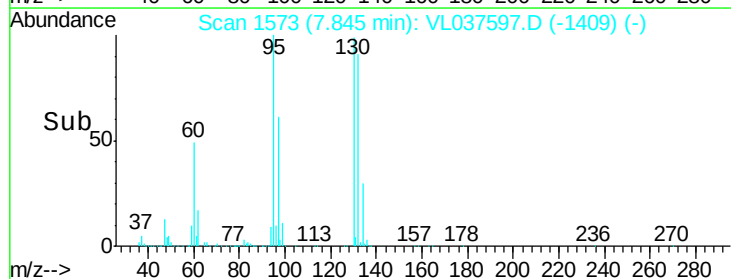
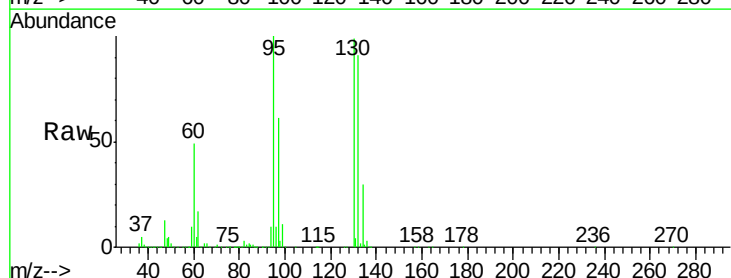
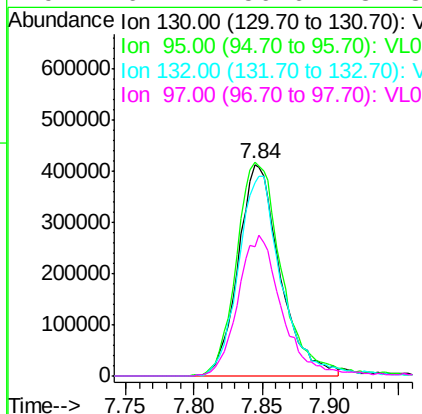
RT: 7.84 min Scan# 1573

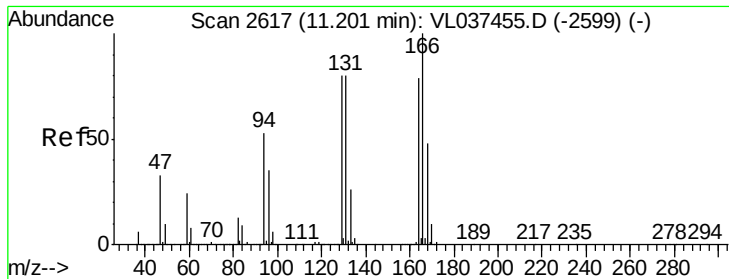
Delta R.T. 0.03 min

Lab File: VL037597.D

Acq: 9 Sep 2021 14:03

Tgt Ion:	130	Resp:	879579
Ion	Ratio	Lower	Upper
130	100		
95	100.9	89.2	133.8
132	91.3	74.0	111.0
97	61.4	56.6	84.8





#52

Tetrachloroethene

Concen: 8.638 ppbv

RT: 11.24 min Scan# 2628

Delta R.T. 0.04 min

Lab File: VL037597.D

Acq: 9 Sep 2021 14:03

Instrument :

MSVOA_L

ClientSampled :

SV-2DL

Tot Ion:164 Resp: 1329513

Ion Ratio Lower Upper

164 100

166 123.5 100.7 151.1

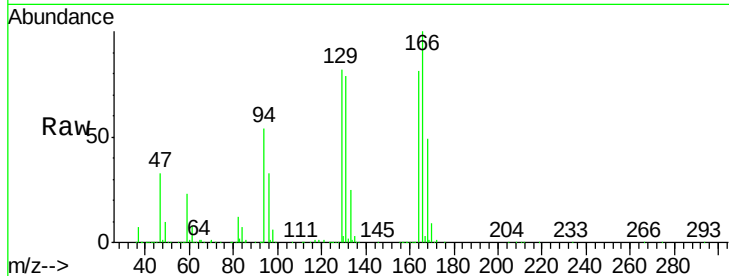
129 101.1 80.9 121.3

131 97.1 80.2 120.4

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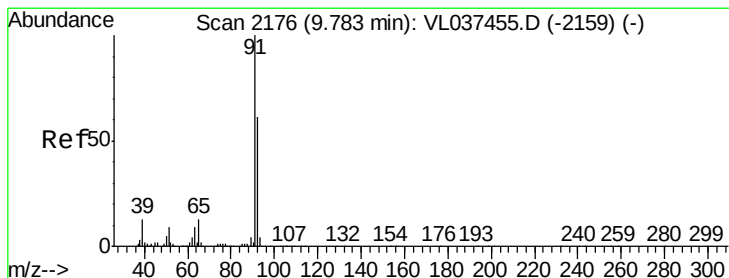
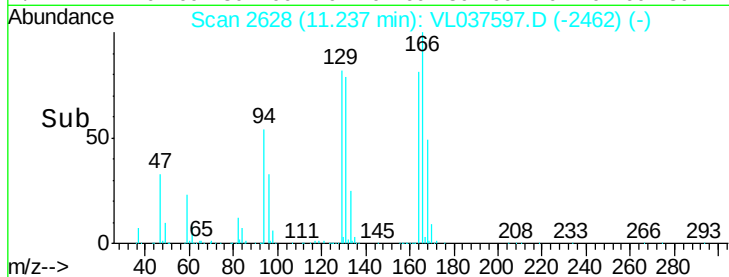
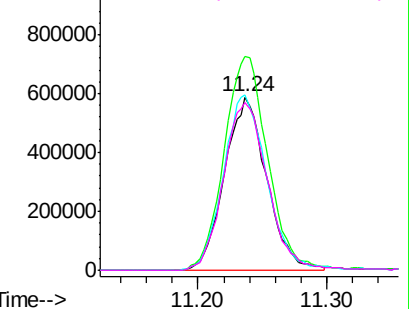


Abundance Ion 163.90 (163.60 to 164.60): V

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: 2.061 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. 0.04 min

Lab File: VL037597.D

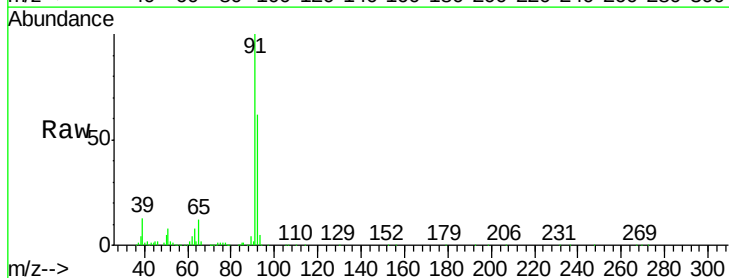
Acq: 9 Sep 2021 14:03

Tgt Ion: 91 Resp: 883843

Ion Ratio Lower Upper

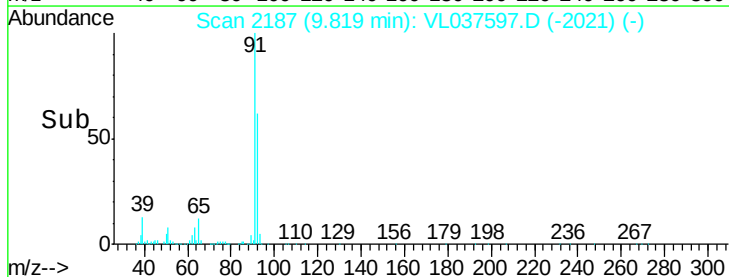
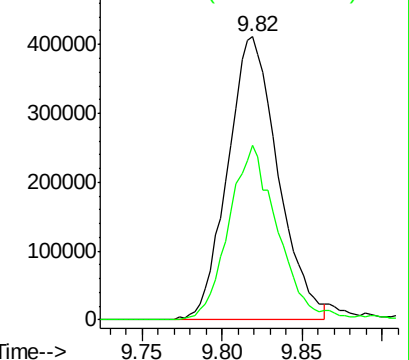
91 100

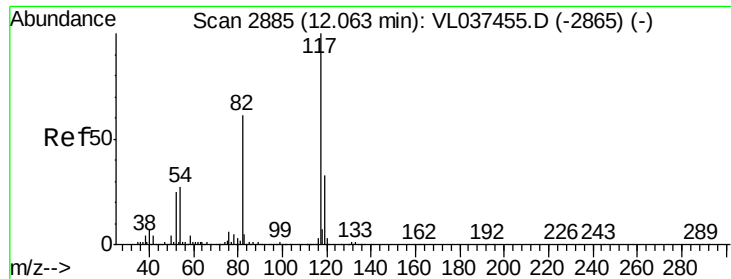
92 60.9 48.8 73.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





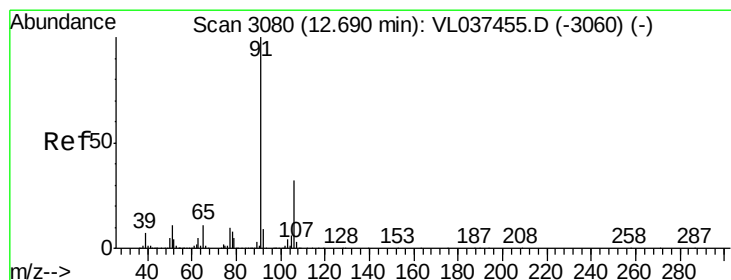
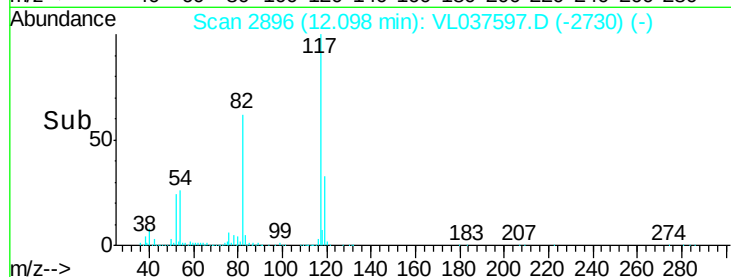
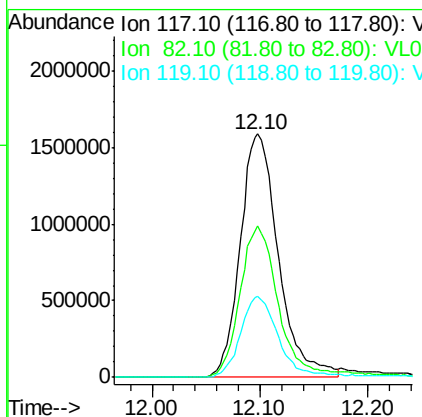
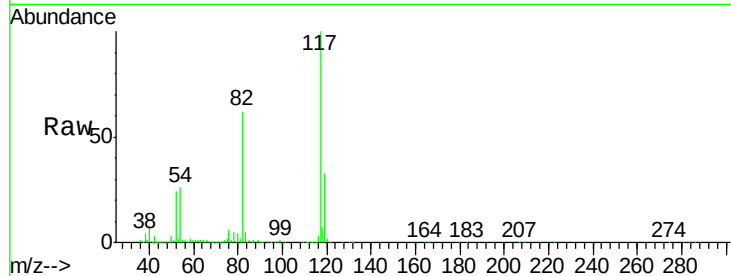
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2896
Delta R.T. 0.04 min
Lab File: VL037597.D
Acq: 9 Sep 2021 14:03

Instrument :
MSVOA_L
ClientSampleId :
SV-2DL

Tot Ion:117 Resp: 3912168
Ion Ratio Lower Upper
117 100
82 64.9 52.9 79.3
119 33.9 24.8 37.2

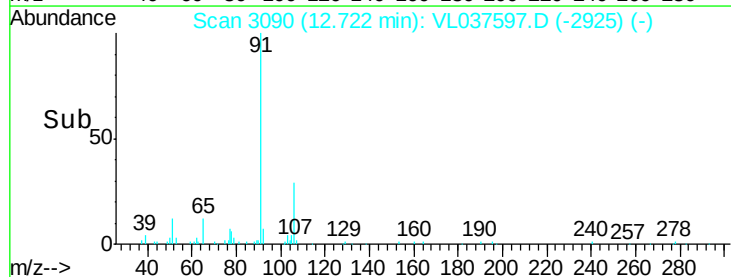
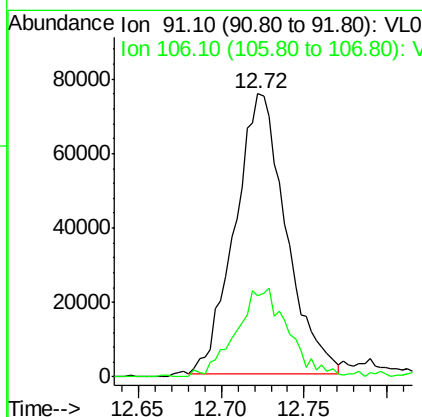
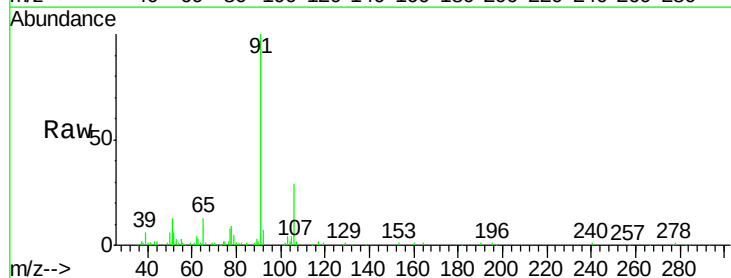
Manual Integrations
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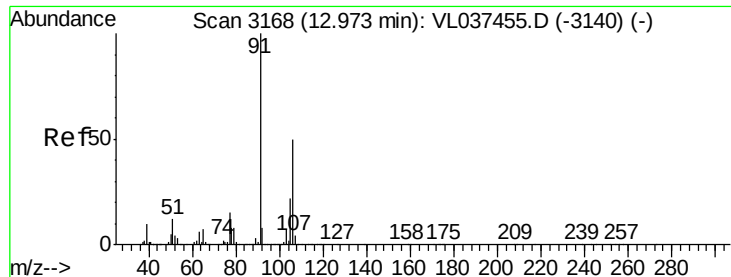
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#58
Ethyl Benzene
Concen: 0.299 ppbv
RT: 12.72 min Scan# 3090
Delta R.T. 0.03 min
Lab File: VL037597.D
Acq: 9 Sep 2021 14:03

Tgt Ion: 91 Resp: 162273
Ion Ratio Lower Upper
91 100
106 28.6 25.7 38.5





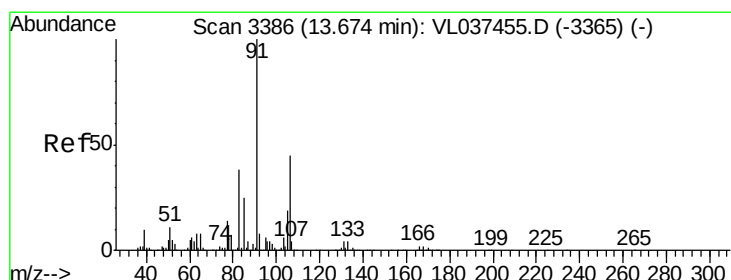
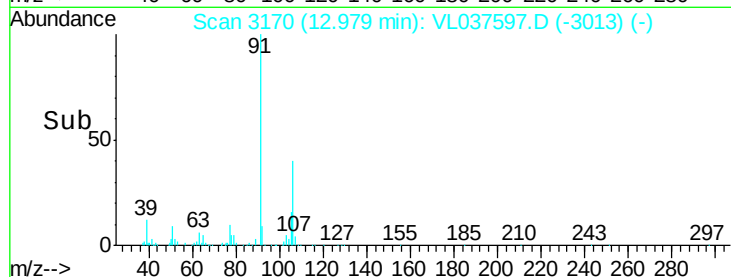
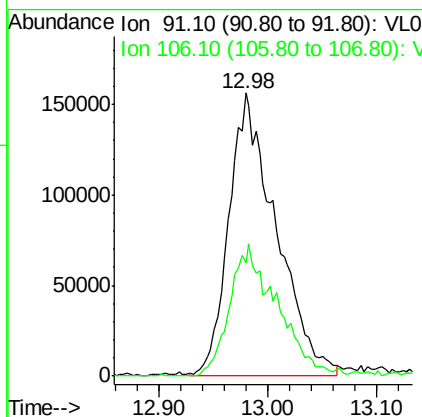
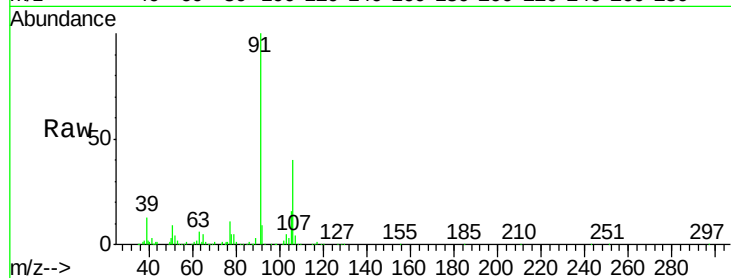
#59
m/p-Xylene
Concen: 1.001 ppbv m
RT: 12.98 min Scan# 3170
Delta R.T. 0.01 min
Lab File: VL037597.D
Acq: 9 Sep 2021 14:03

Instrument :
MSVOA_L
ClientSampled :
SV-2DL

Tot Ion: 91 Resp: 471194
Ion Ratio Lower Upper
91 100
106 0.0 36.9 55.3#

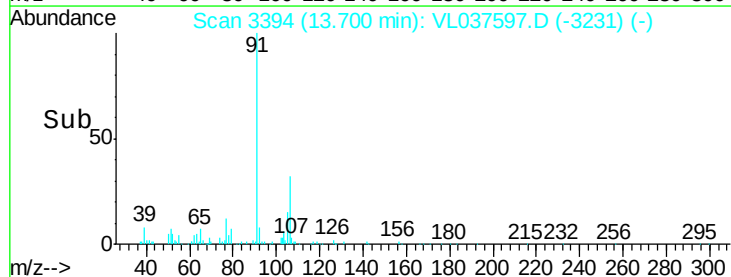
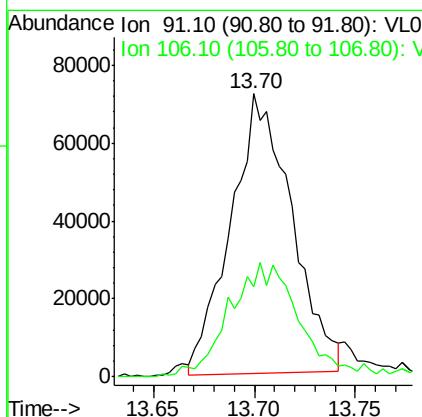
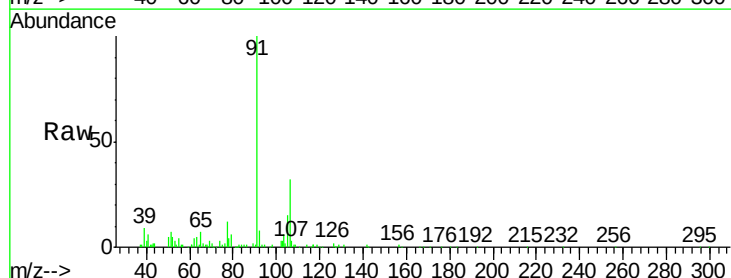
Manual Integrations
APPROVED

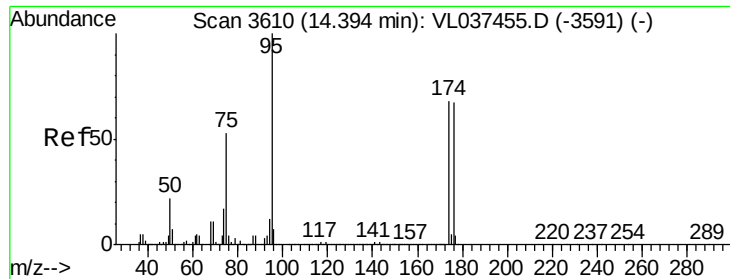
MMDadoda
9/10/2021 6:37:12 PM



#60
o-Xylene
Concen: 0.345 ppbv
RT: 13.70 min Scan# 3394
Delta R.T. 0.03 min
Lab File: VL037597.D
Acq: 9 Sep 2021 14:03

Tgt Ion: 91 Resp: 151476
Ion Ratio Lower Upper
91 100
106 48.2 23.7 71.1





#68

1-Bromo-4-Fluorobenzene

Concen: 9.862 ppbv

RT: 14.43 min Scan# 3621

Delta R.T. 0.04 min

Lab File: VL037597.D

Acq: 9 Sep 2021 14:03

Instrument :

MSVOA_L

ClientSampled :

SV-2DL

Tot Ion: 95 Resp: 2740985

Ion Ratio Lower Upper

95 100

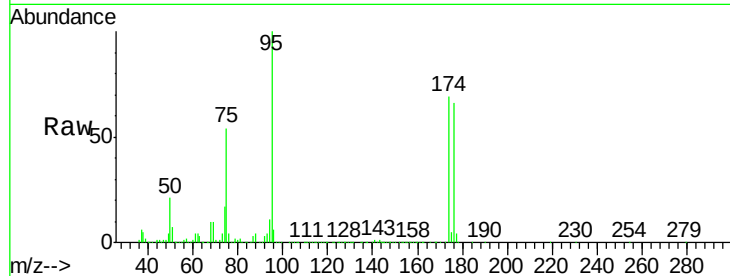
174 79.0 59.6 89.4

175 5.6 4.6 7.0

Manual Integrations
APPROVED

MMDadoda

9/10/2021 6:37:12 PM

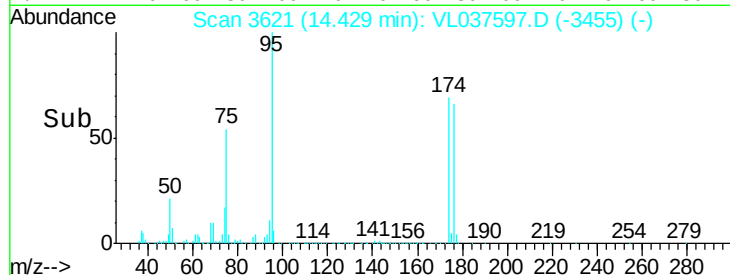


Abundance Ion 95.10 (94.80 to 95.80): VL037455.D (-3591) (-)

Ion 174.00 (173.70 to 174.70): VL037455.D (-3591) (-)

Ion 175.00 (174.70 to 175.70): VL037455.D (-3591) (-)

Time-->



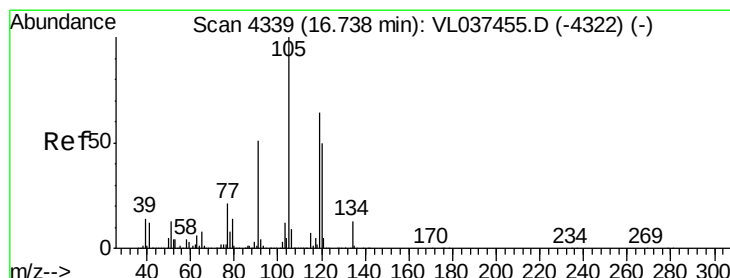
Abundance

Ion 95.10 (94.80 to 95.80): VL037455.D (-3591) (-)

Ion 174.00 (173.70 to 174.70): VL037455.D (-3591) (-)

Ion 175.00 (174.70 to 175.70): VL037455.D (-3591) (-)

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 0.243 ppbv m

RT: 16.77 min Scan# 4350

Delta R.T. 0.04 min

Lab File: VL037597.D

Acq: 9 Sep 2021 14:03

Tgt Ion: 105 Resp: 125683

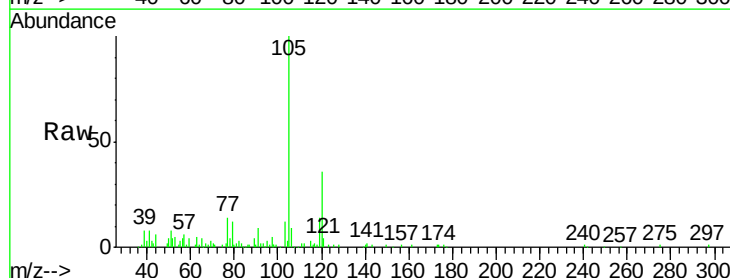
Ion Ratio Lower Upper

105 100

120 35.7 40.4 60.6#

91 8.6 44.6 67.0#

77 14.4 17.8 26.6#



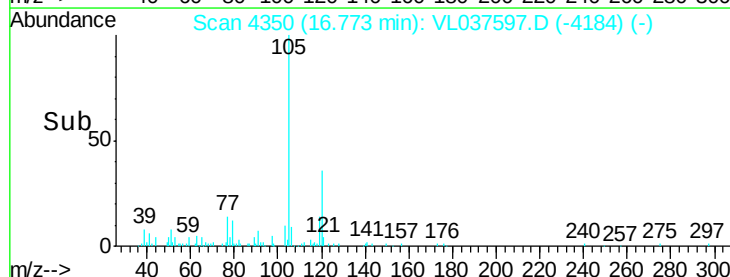
Abundance Ion 105.10 (104.80 to 105.80): VL037455.D (-4322) (-)

Ion 120.20 (119.90 to 120.90): VL037455.D (-4322) (-)

Ion 91.10 (90.80 to 91.80): VL037455.D (-4322) (-)

Ion 77.10 (76.80 to 77.80): VL037455.D (-4322) (-)

Time-->



Abundance

Ion 105.10 (104.80 to 105.80): VL037455.D (-4322) (-)

Ion 120.20 (119.90 to 120.90): VL037455.D (-4322) (-)

Ion 91.10 (90.80 to 91.80): VL037455.D (-4322) (-)

Ion 77.10 (76.80 to 77.80): VL037455.D (-4322) (-)

Time-->