

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060121\
 Data File : VL037069.D
 Acq On : 1 Jun 2021 14:27
 Operator : SY/AP
 Sample : M2559-01DL 20X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 HSG1DL

Manual Integrations
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 6/7/2021 2:58:26 PM

Quant Time: Jun 04 11:10:01 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1636463	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4827836	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	4420326	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	3422700	10.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.00	41	26967	0.251	ppbv	90
10) Heptane	8.10	43	1739869	6.503	ppbv	99
13) Ethanol	3.61	45	139676m	9.751	ppbv	
15) Acetone	3.84	43	994596	5.934	ppbv	96
17) tert-Butyl alcohol	4.31	59	49324m	0.321	ppbv	
19) Isopropyl Alcohol	3.97	45	32586	0.362	ppbv #	30
26) Hexane	5.67	57	356303	1.732	ppbv #	48
30) Cyclohexane	7.11	84	76258m	0.436	ppbv	
34) 2-Butanone	5.25	43	44176	0.251	ppbv #	61
36) Benzene	6.87	78	217181	0.522	ppbv	96
53) Toluene	9.78	91	4595007	9.286	ppbv	99
58) Ethyl Benzene	12.69	91	430877	0.691	ppbv	97
59) m/p-Xylene	12.94	91	1234302	2.393	ppbv	99
60) o-Xylene	13.67	91	394129	0.801	ppbv	100
62) Isopropylbenzene	14.65	105	350727	0.496	ppbv	97
69) p-Isopropyltoluene	17.63	119	194216	0.260	ppbv #	92
72) 4-Ethyltoluene	15.82	105	154420	0.265	ppbv #	97
73) 1,3,5-Trimethylbenzene	15.98	105	99133m	0.181	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	329799	0.582	ppbv #	70

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

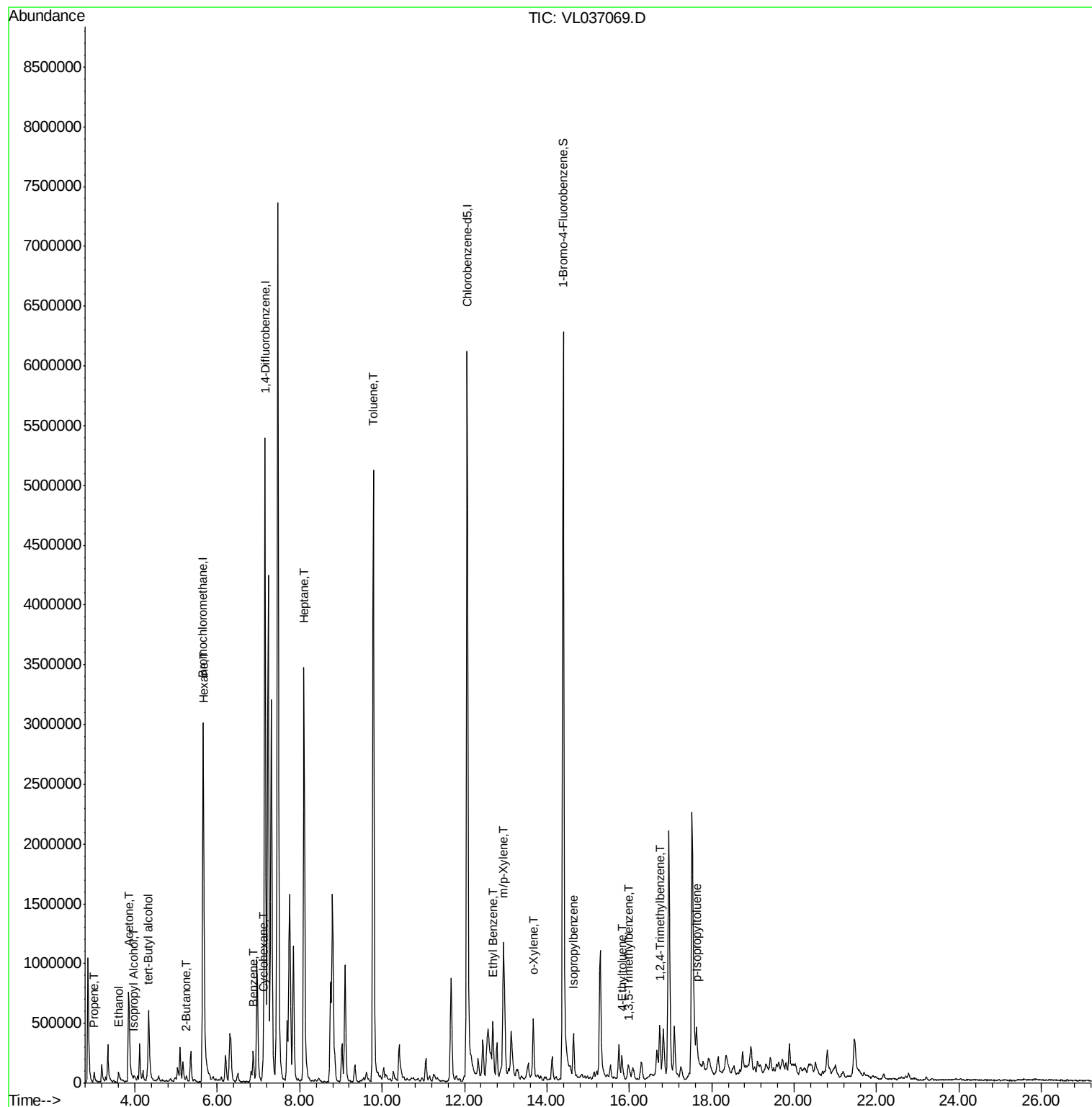
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL060121\
Data File : VL037069.D
Acq On : 1 Jun 2021 14:27
Operator : SY/AP
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Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

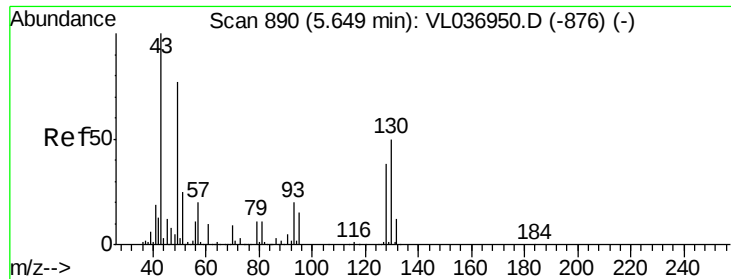
Instrument :
MSVOA_L
ClientSampleId :
HSG1DL

Manual Integrations
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Quant Time: Jun 04 11:10:01 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL037069.D

Acq: 1 Jun 2021 14:27

Instrument :

MSVOA_L

ClientSampleId :

HSG1DL

Tot Ion: 49 Resp: 1636463

Ion Ratio Lower Upper

49 100

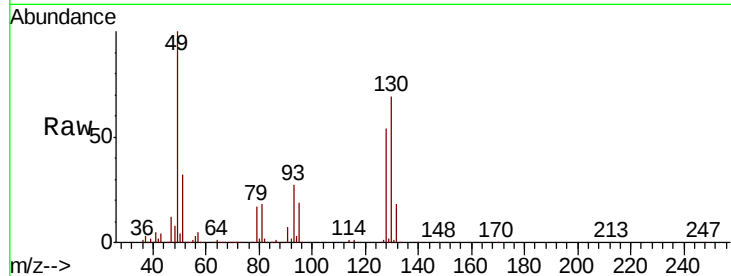
128 56.2 26.9 80.7

130 71.6 33.8 101.4

Manual Integrations
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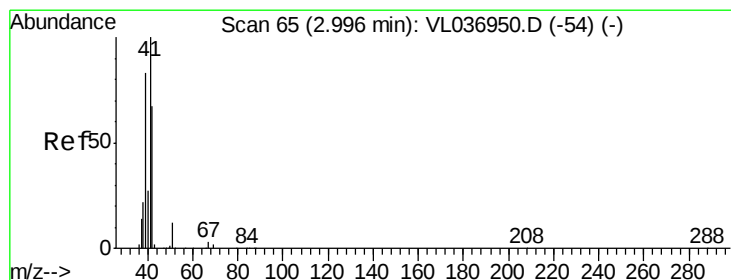
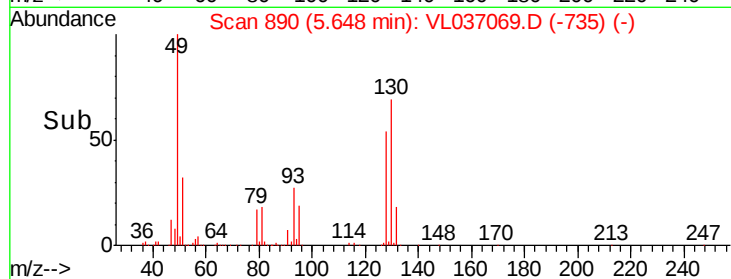
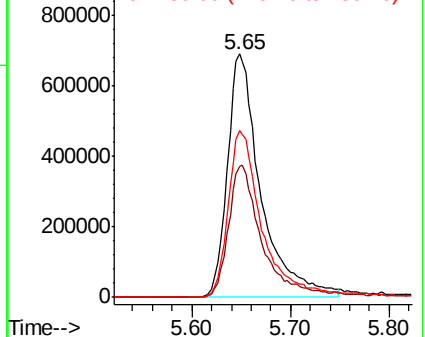
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 0.251 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.01 min

Lab File: VL037069.D

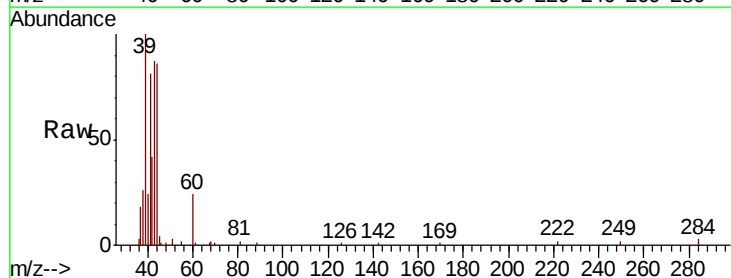
Acq: 1 Jun 2021 14:27

Tgt Ion: 41 Resp: 26967

Ion Ratio Lower Upper

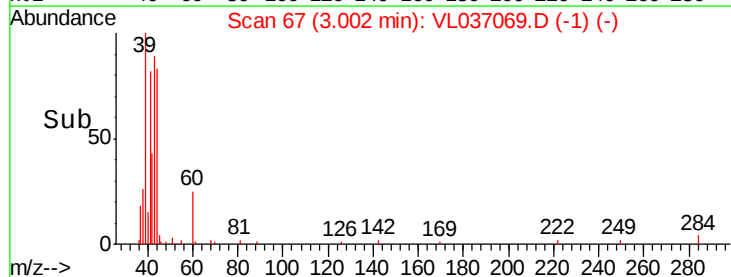
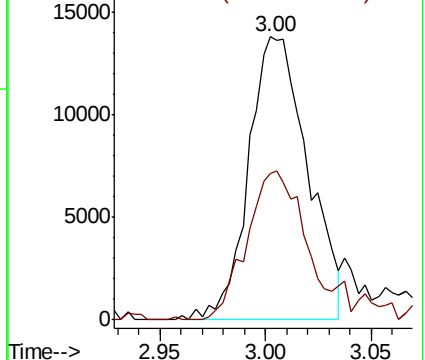
41 100

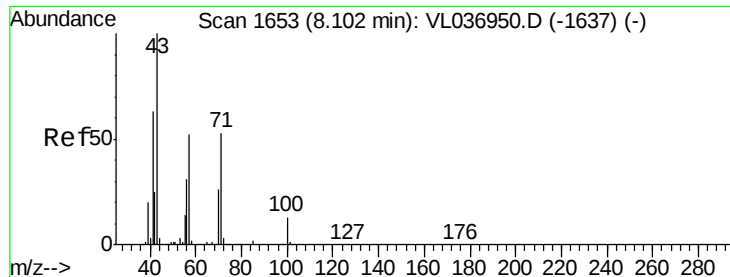
42 59.6 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





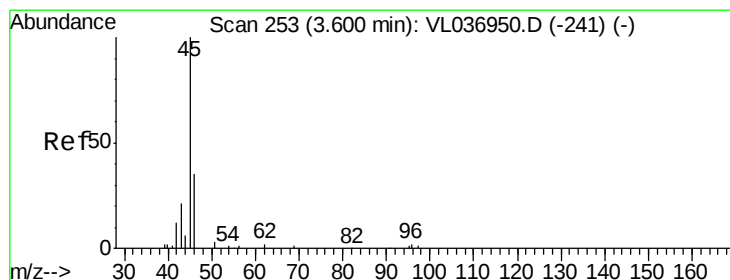
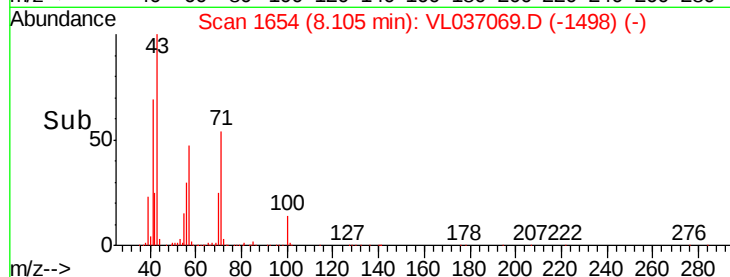
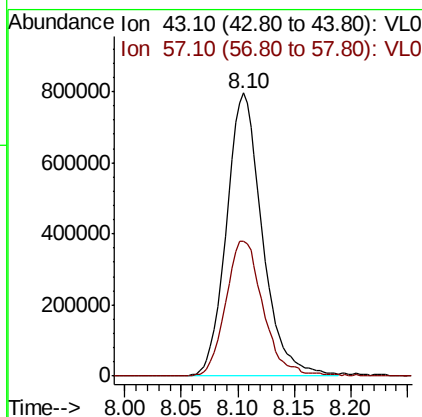
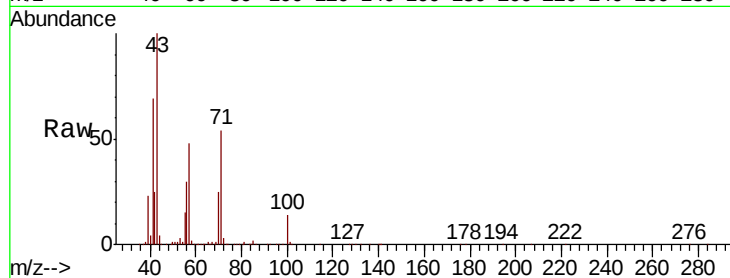
#10
Heptane
Concen: 6.503 ppbv
RT: 8.10 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VL037069.D
Acq: 1 Jun 2021 14:27

Instrument :
MSVOA_L
ClientSampleId :
HSG1DL

Tot Ion: 43 Resp: 1739869
Ion Ratio Lower Upper
43 100
57 50.3 41.0 61.6

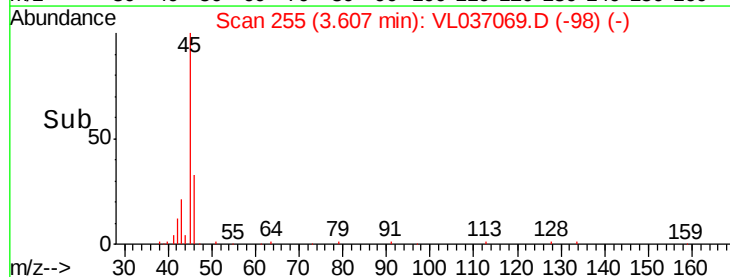
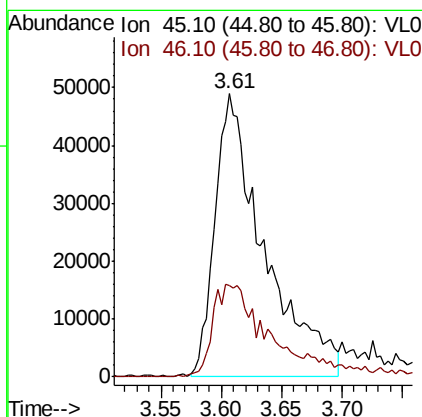
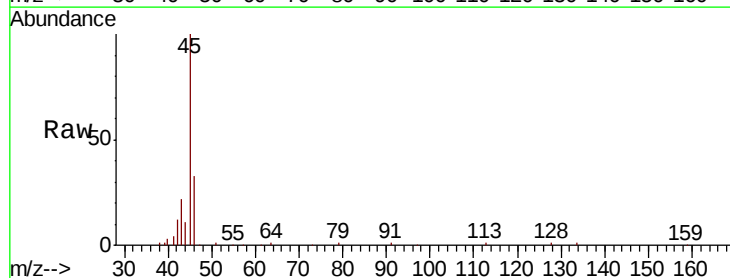
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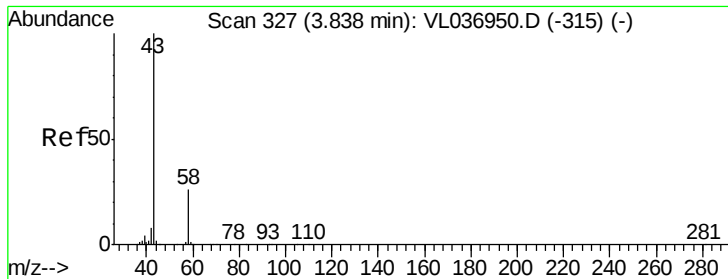
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#13
Ethanol
Concen: 9.751 ppbv m
RT: 3.61 min Scan# 255
Delta R.T. 0.01 min
Lab File: VL037069.D
Acq: 1 Jun 2021 14:27

Tgt Ion: 45 Resp: 139676
Ion Ratio Lower Upper
45 100
46 39.3 16.3 65.3





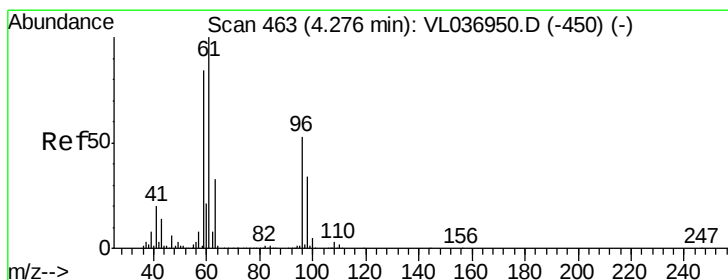
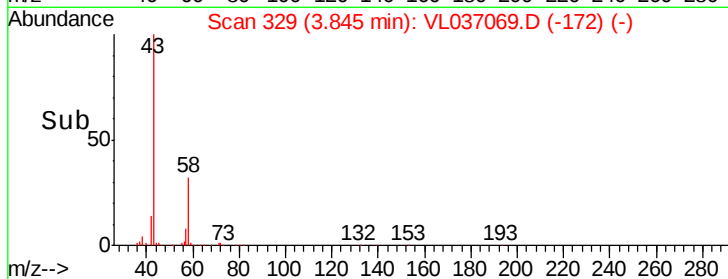
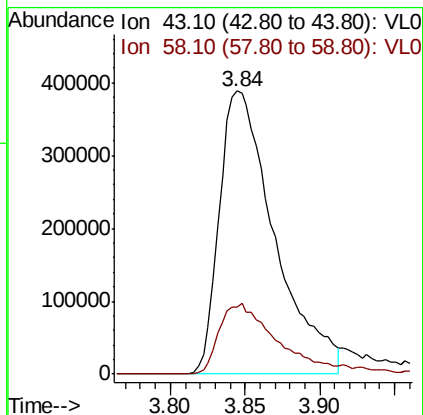
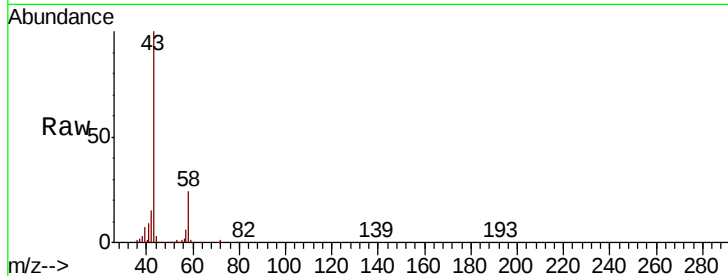
#15
Acetone
Concen: 5.934 ppbv
RT: 3.84 min Scan# 329
Delta R.T. 0.01 min
Lab File: VL037069.D
Acq: 1 Jun 2021 14:27

Instrument :
MSVOA_L
ClientSampleId :
HSG1DL

Tot Ion: 43 Resp: 994596
Ion Ratio Lower Upper
43 100
58 28.1 24.0 36.0

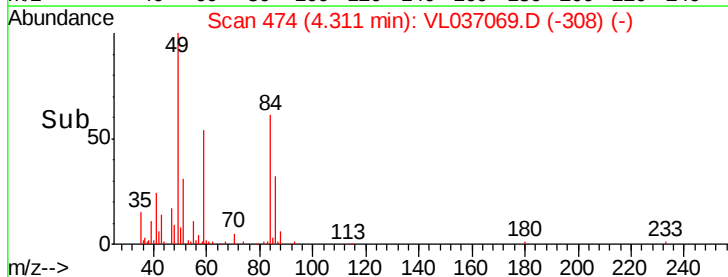
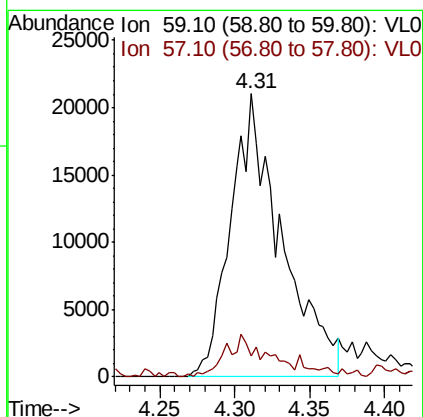
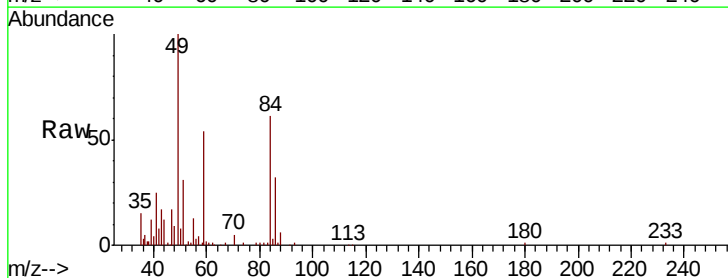
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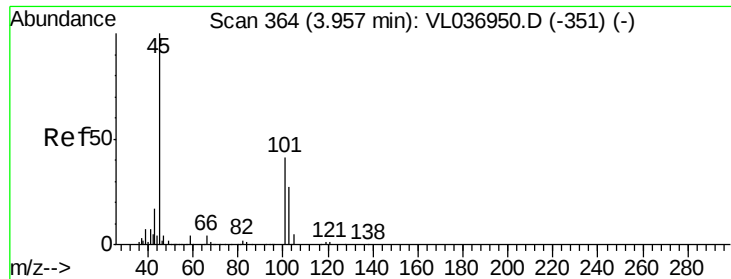
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#17
tert-Butyl alcohol
Concen: 0.321 ppbv m
RT: 4.31 min Scan# 474
Delta R.T. 0.04 min
Lab File: VL037069.D
Acq: 1 Jun 2021 14:27

Tgt Ion: 59 Resp: 49324
Ion Ratio Lower Upper
59 100
57 12.9 8.3 12.5#





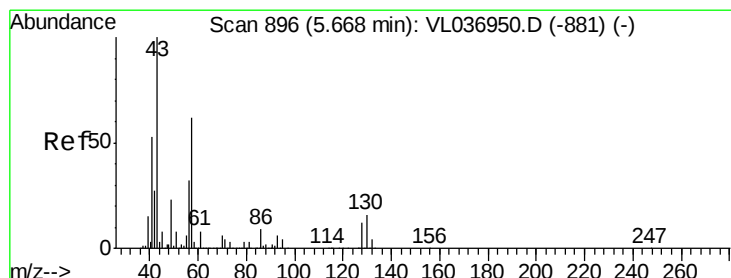
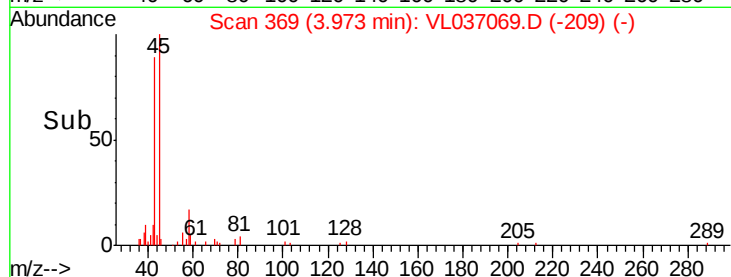
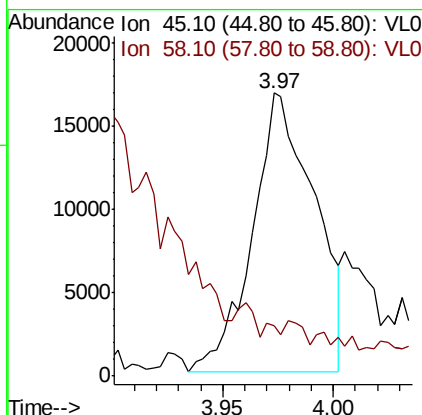
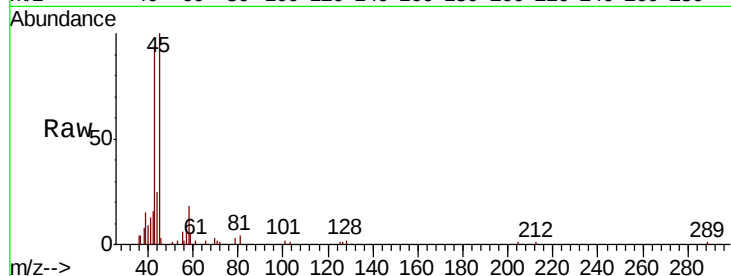
#19
Isopropyl Alcohol
Concen: 0.362 ppbv
RT: 3.97 min Scan# 369
Delta R.T. 0.02 min
Lab File: VL037069.D
Acq: 1 Jun 2021 14:27

Instrument :
MSVOA_L
ClientSampleId :
HSG1DL

Tot Ion: 45 Resp: 32586
Ion Ratio Lower Upper
45 100
58 0.0 37.2 55.8#

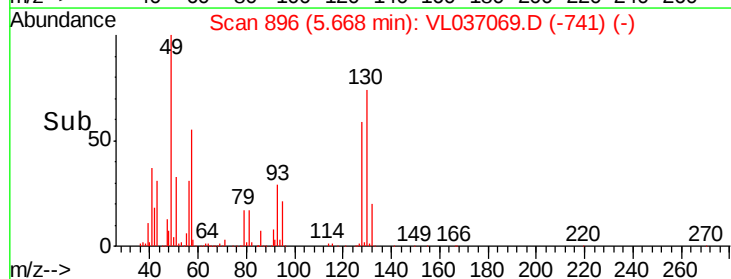
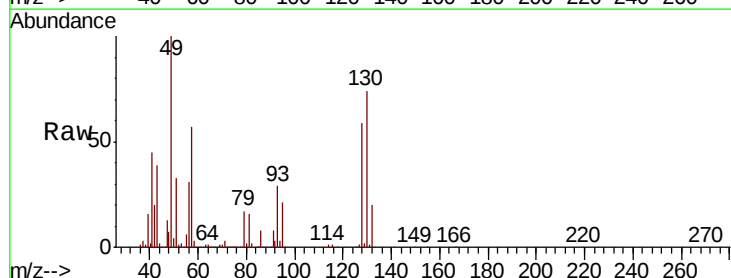
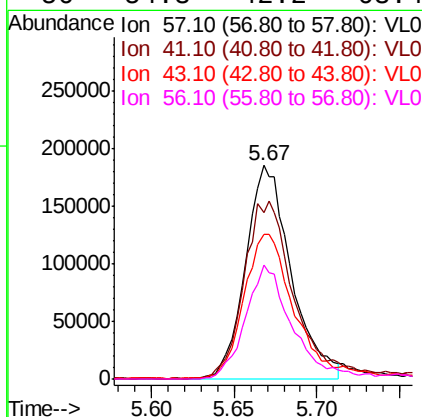
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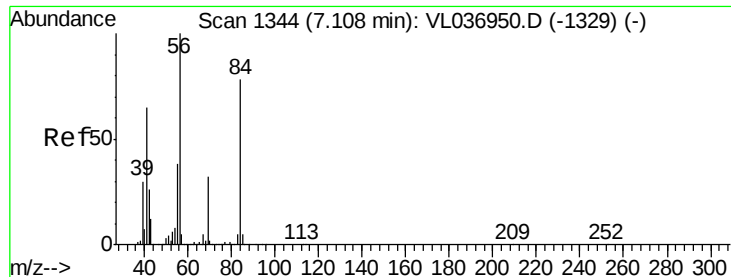
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#26
Hexane
Concen: 1.732 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.00 min
Lab File: VL037069.D
Acq: 1 Jun 2021 14:27

Tgt Ion: 57 Resp: 356303
Ion Ratio Lower Upper
57 100
41 95.4 70.5 105.7
43 77.8 165.8 248.8#
56 54.3 42.2 63.4





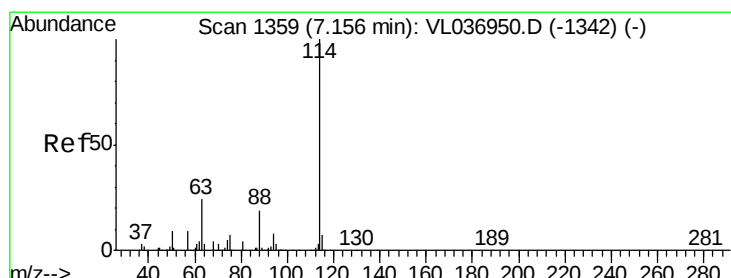
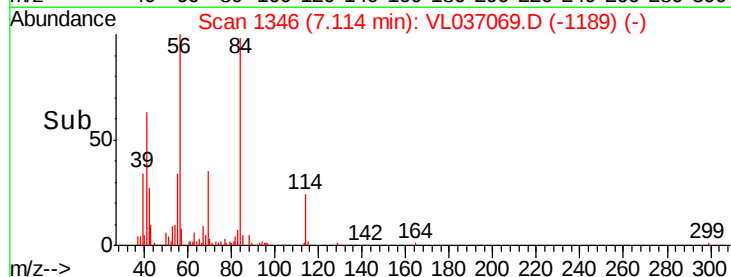
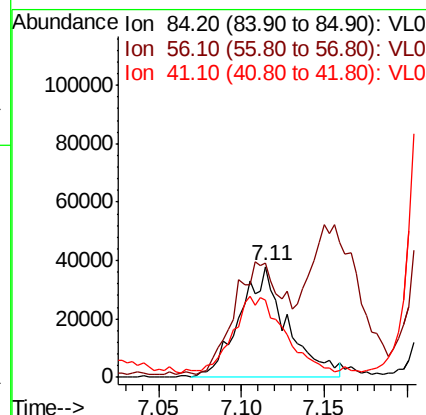
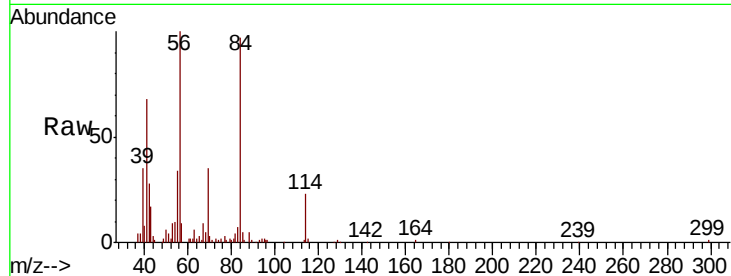
#30
Cvclohexane
Concen: 0.436 ppbv m
RT: 7.11 min Scan# 1346
Delta R.T. 0.01 min
Lab File: VL037069.D
Acq: 1 Jun 2021 14:27

Instrument :
MSVOA_L
ClientSampled :
HSG1DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	107.9	161.9#
41	0.0	65.5	98.3#

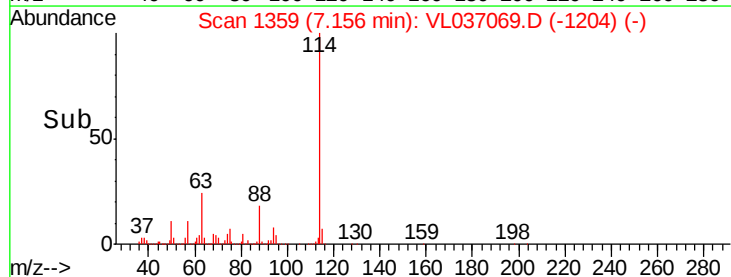
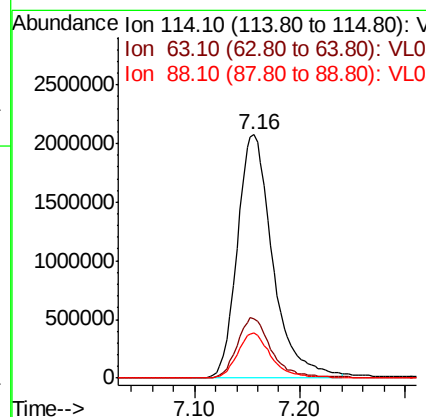
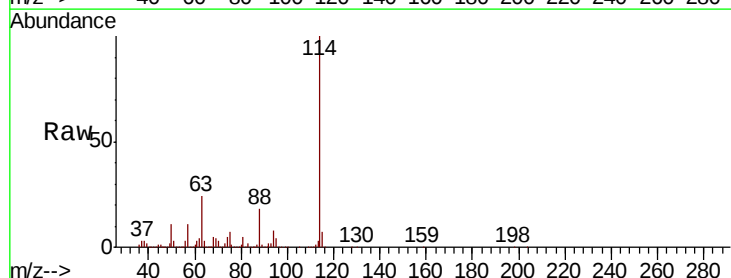
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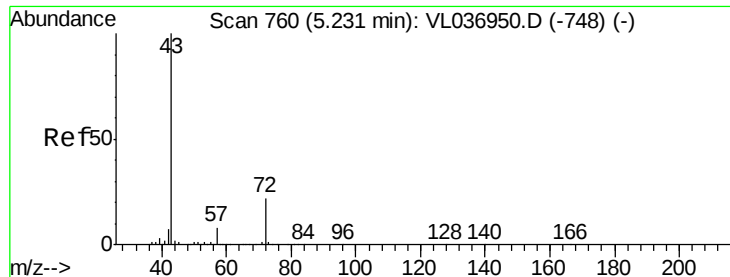
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL037069.D
Acq: 1 Jun 2021 14:27

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.5	19.6	29.4
88	18.1	14.6	21.8





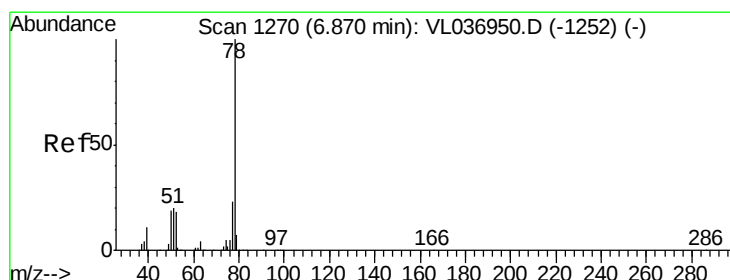
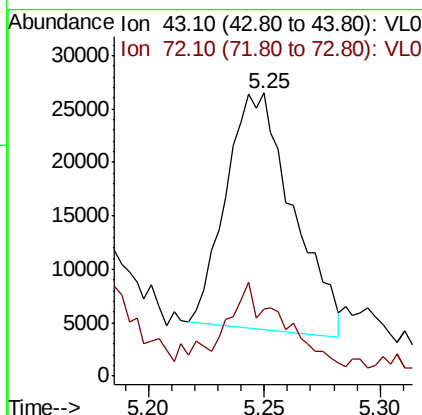
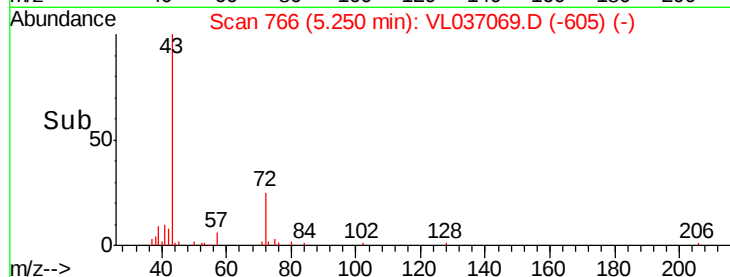
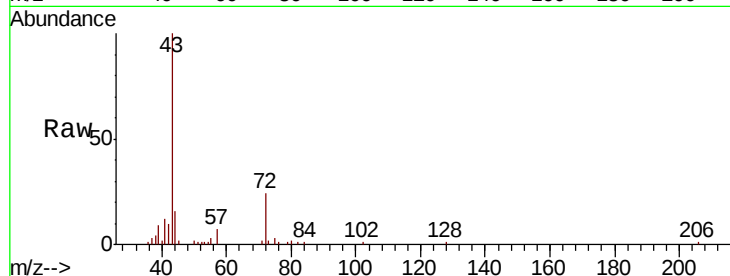
#34
2-Butanone
Concen: 0.251 ppbv
RT: 5.25 min Scan# 766
Delta R.T. 0.02 min
Lab File: VL037069.D
Acq: 1 Jun 2021 14:27

Instrument :
MSVOA_L
ClientSampleId :
HSG1DL

Tot Ion: 43 Resp: 44176
Ion Ratio Lower Upper
43 100
72 42.9 19.0 28.4#

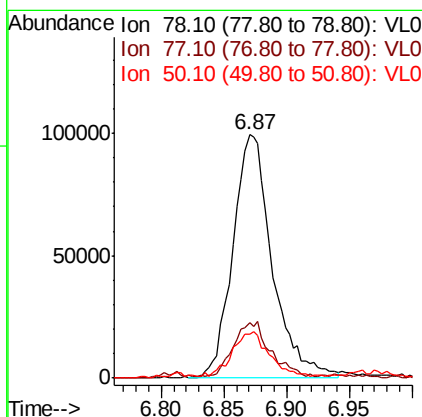
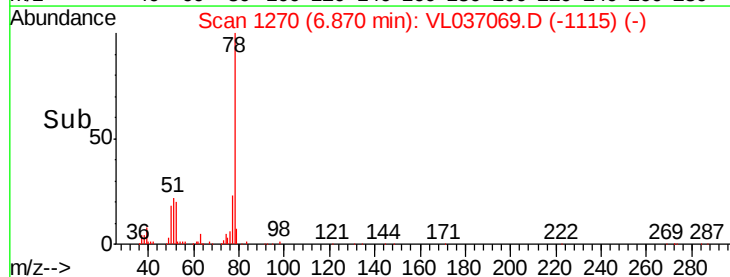
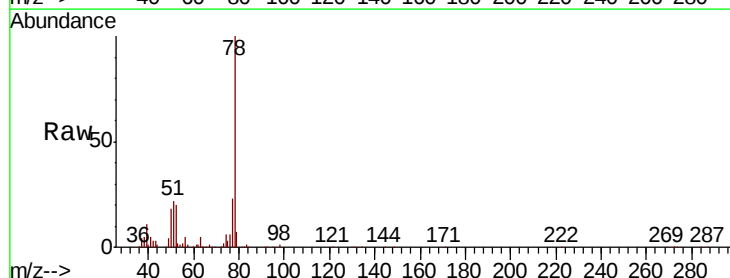
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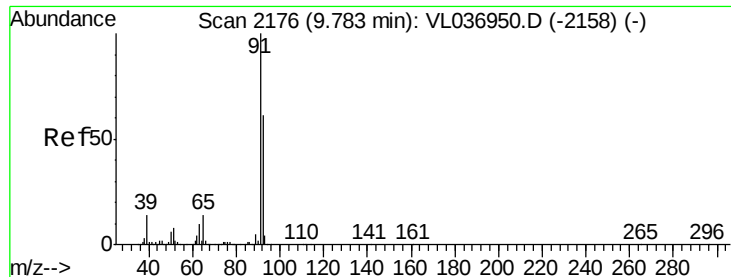
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#36
Benzene
Concen: 0.522 ppbv
RT: 6.87 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VL037069.D
Acq: 1 Jun 2021 14:27

Tgt Ion: 78 Resp: 217181
Ion Ratio Lower Upper
78 100
77 21.7 18.6 28.0
50 17.0 15.0 22.4





#53

Toluene

Concen: 9.286 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL037069.D

Acq: 1 Jun 2021 14:27

Instrument :

MSVOA_L

ClientSampleId :

HSG1DL

Tot Ion: 91 Resp: 4595007

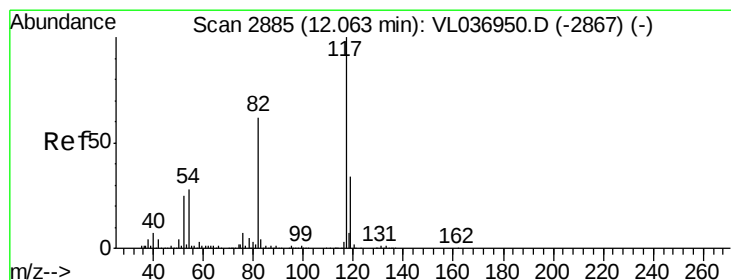
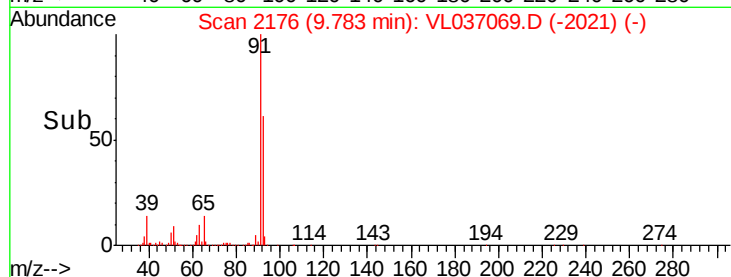
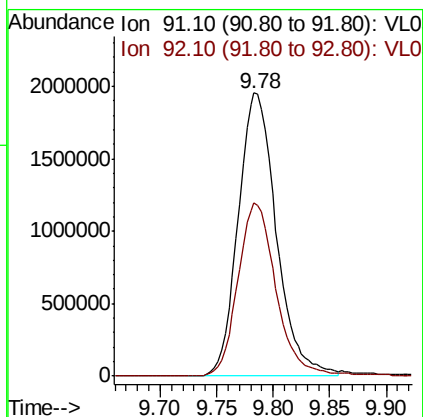
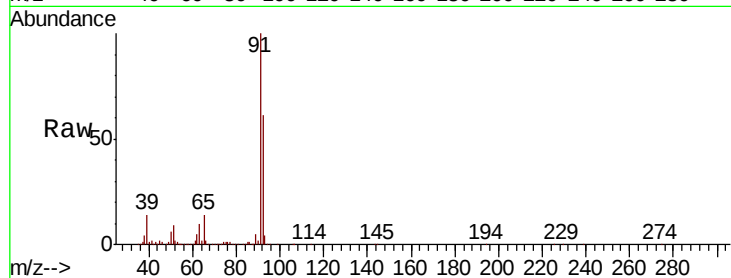
Ion Ratio Lower Upper

91 100

92 61.4 49.5 74.3

Manual Integrations
APPROVED

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6/7/2021 2:58:26 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.00 min

Lab File: VL037069.D

Acq: 1 Jun 2021 14:27

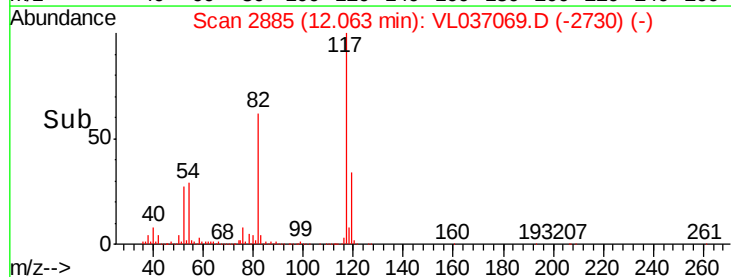
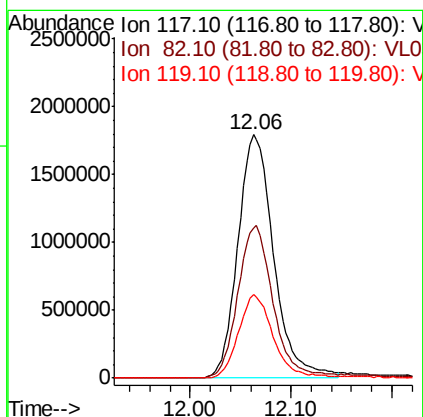
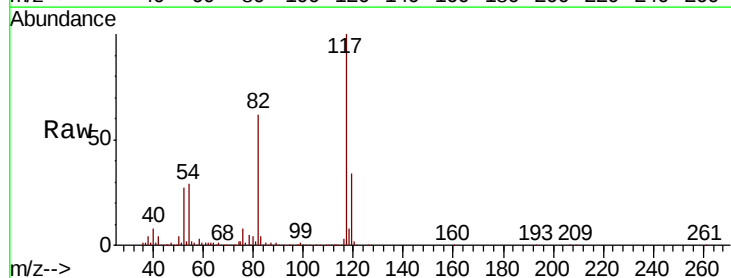
Tgt Ion: 117 Resp: 4420326

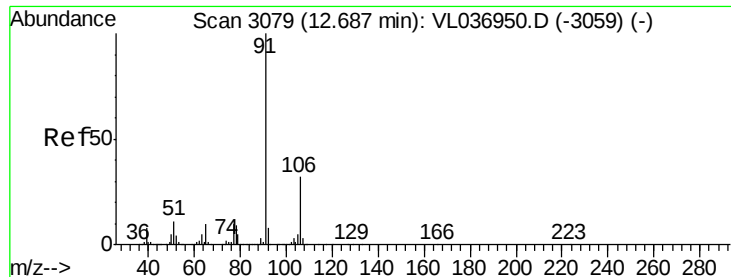
Ion Ratio Lower Upper

117 100

82 63.6 52.6 79.0

119 34.5 46.6 70.0#





#58

Ethyl Benzene

Concen: 0.691 ppbv

RT: 12.69 min Scan# 3079

Delta R.T. -0.00 min

Lab File: VL037069.D

Acq: 1 Jun 2021 14:27

Instrument :

MSVOA_L

ClientSampleId :

HSG1DL

Tot Ion: 91 Resp: 430877

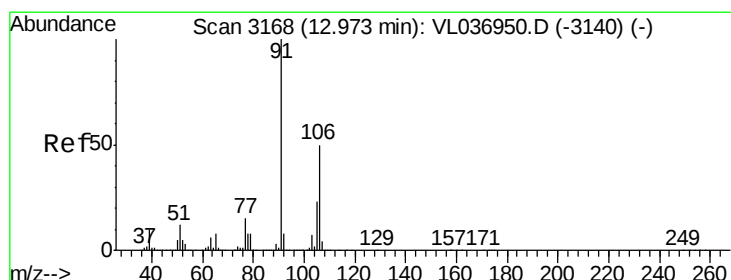
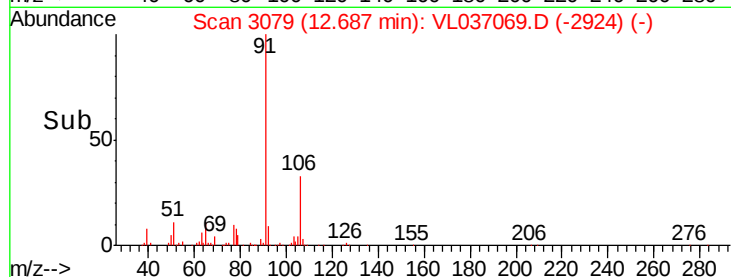
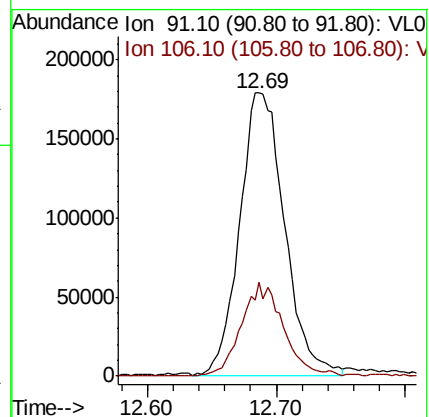
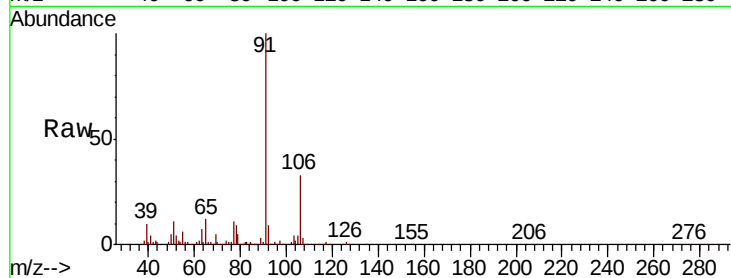
Ion Ratio Lower Upper

91 100

106 33.4 25.6 38.4

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#59

m/p-Xylene

Concen: 2.393 ppbv

RT: 12.94 min Scan# 3159

Delta R.T. -0.03 min

Lab File: VL037069.D

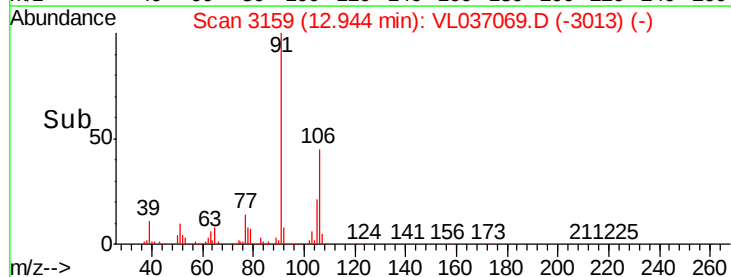
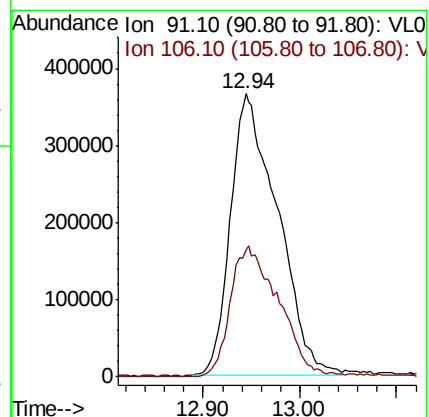
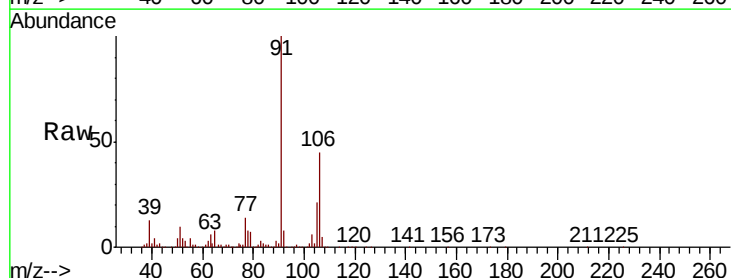
Acq: 1 Jun 2021 14:27

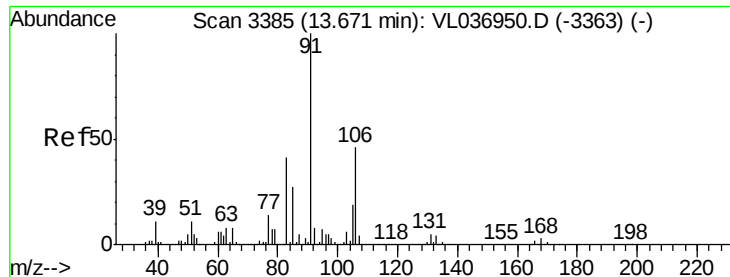
Tgt Ion: 91 Resp: 1234302

Ion Ratio Lower Upper

91 100

106 47.8 37.4 56.2





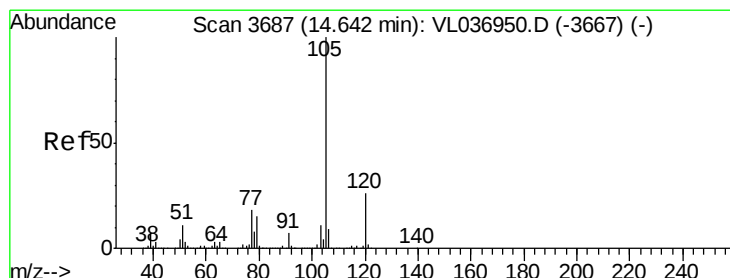
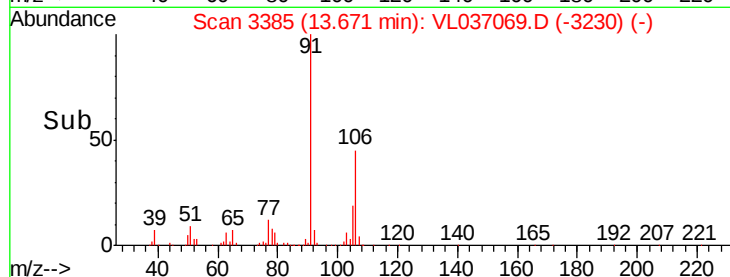
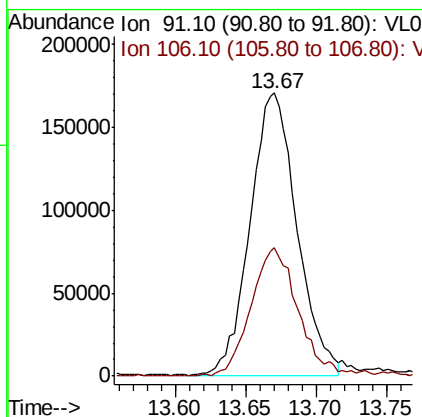
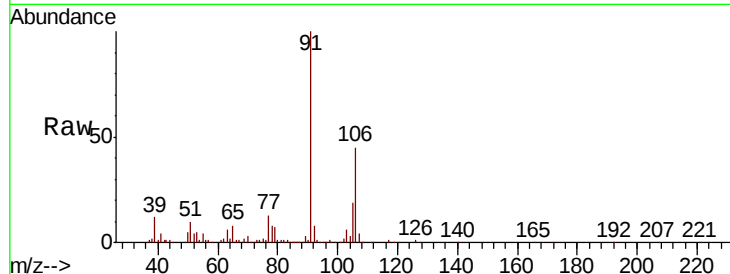
#60
o-Xylene
Concen: 0.801 ppbv
RT: 13.67 min Scan# 3385
Delta R.T. -0.00 min
Lab File: VL037069.D
Acq: 1 Jun 2021 14:27

Instrument :
MSVOA_L
ClientSampleId :
HSG1DL

Tot Ion	Ratio	Lower	Upper
91	100		
106	46.9	23.4	70.3

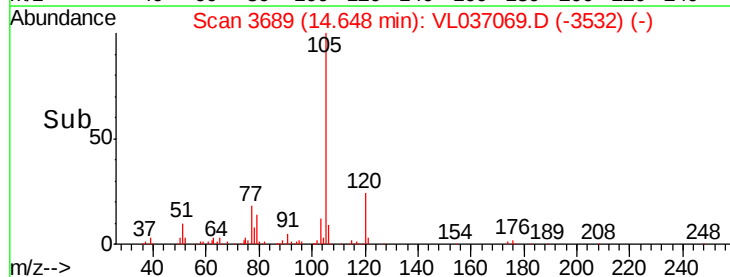
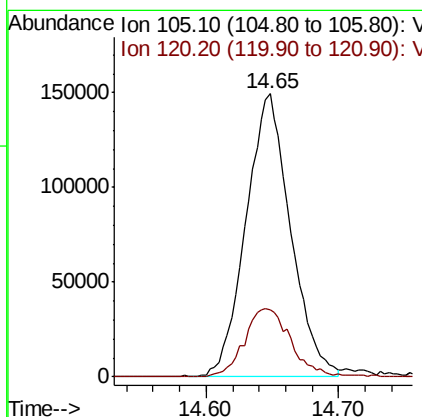
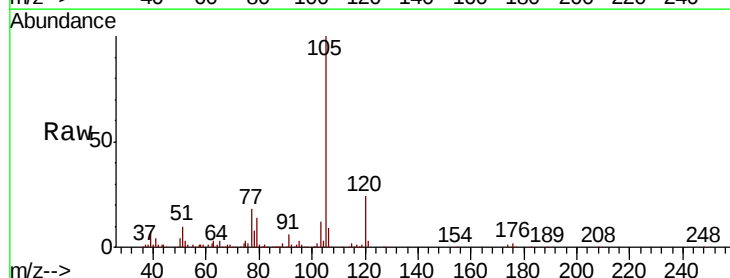
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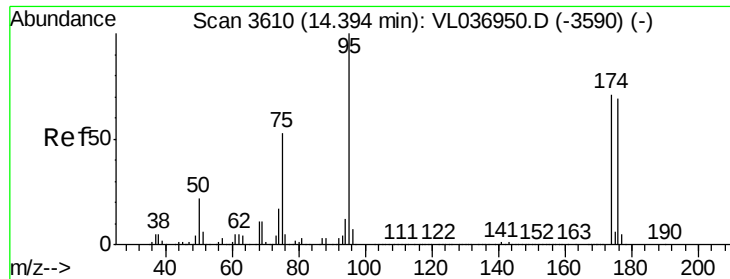
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#62
Isopropylbenzene
Concen: 0.496 ppbv
RT: 14.65 min Scan# 3689
Delta R.T. 0.01 min
Lab File: VL037069.D
Acq: 1 Jun 2021 14:27

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.5	21.7	32.5





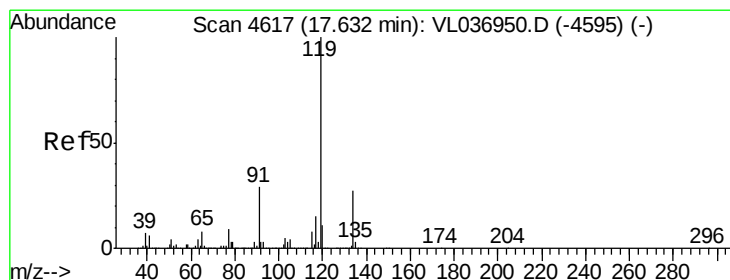
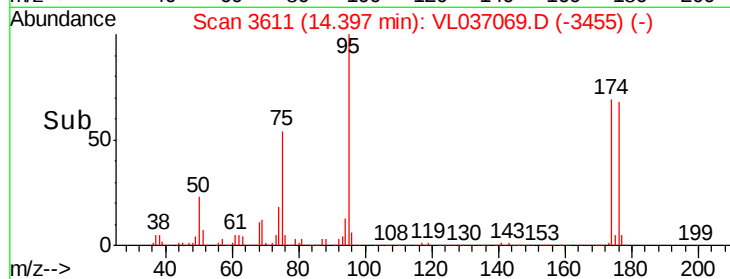
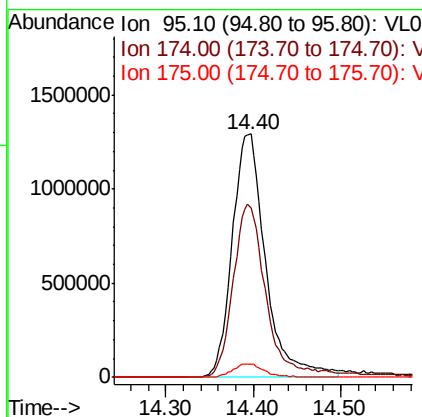
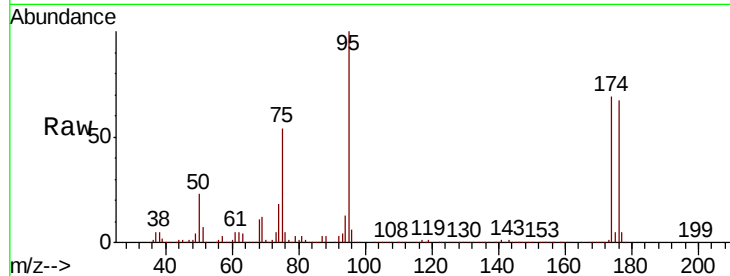
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.307 ppbv
 RT: 14.40 min Scan# 3611
 Delta R.T. 0.00 min
 Lab File: VL037069.D
 Acq: 1 Jun 2021 14:27

Instrument :
 MSVOA_L
 ClientSampleId :
 HSG1DL

Tot Ion: 95 Resp: 3422700
 Ion Ratio Lower Upper
 95 100
 174 72.9 58.4 87.6
 175 5.6 4.4 6.6

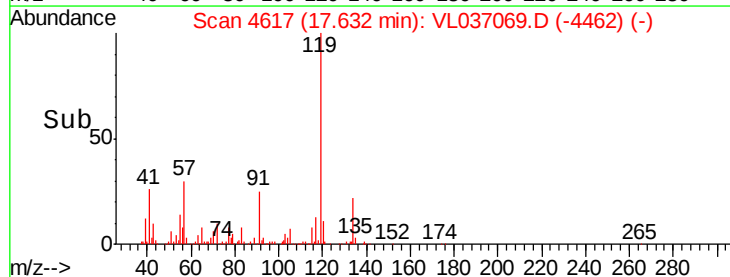
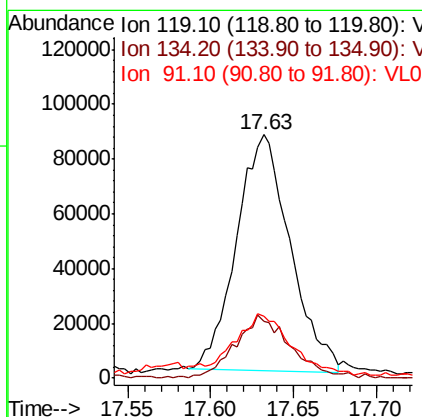
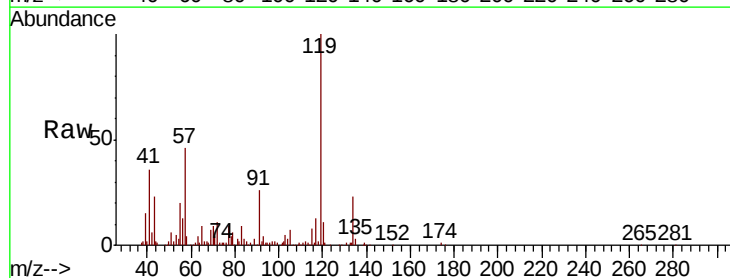
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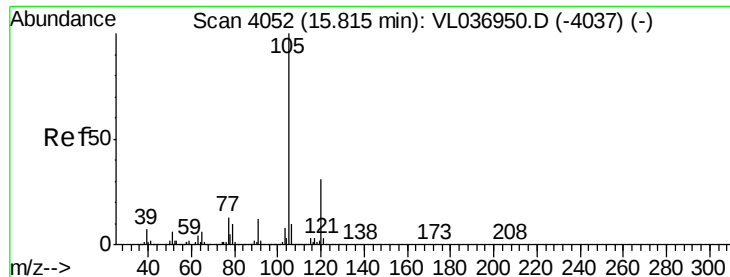
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#69
 p-Isopropyltoluene
 Concen: 0.260 ppbv
 RT: 17.63 min Scan# 4617
 Delta R.T. -0.00 min
 Lab File: VL037069.D
 Acq: 1 Jun 2021 14:27

Tgt Ion: 119 Resp: 194216
 Ion Ratio Lower Upper
 119 100
 134 27.7 21.2 31.8
 91 34.8 22.2 33.4#





#72

4-Ethyltoluene

Concen: 0.265 ppbv

RT: 15.82 min Scan# 4053

Delta R.T. 0.00 min

Lab File: VL037069.D

Acq: 1 Jun 2021 14:27

Instrument :

MSVOA_L

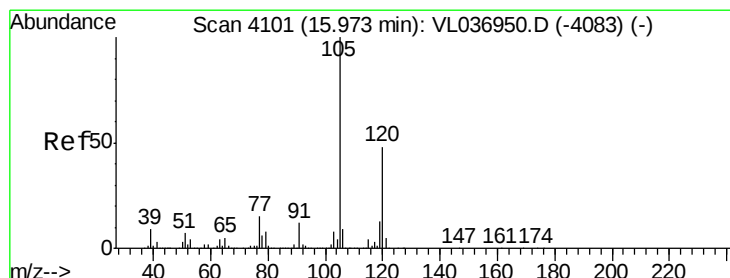
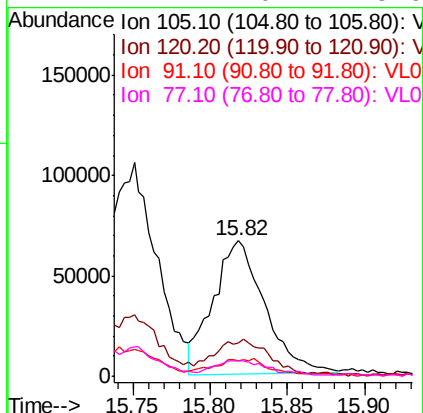
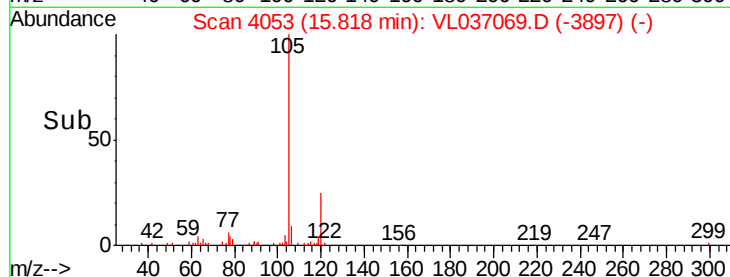
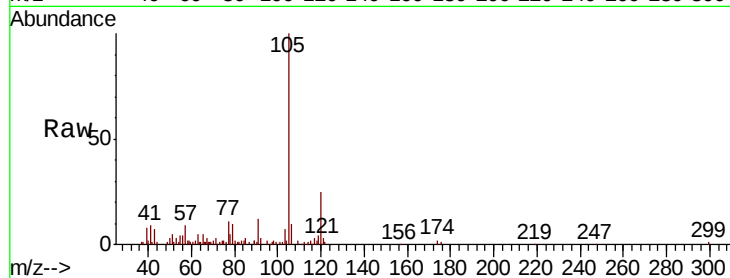
ClientSampleId :

HSG1DL

Tot Ion:	105	Resp:	154420
Ion Ratio	Lower	Upper	
105	100		
120	32.1	24.6	37.0
91	14.7	9.8	14.6
77	12.4	10.4	15.6

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#73

1,3,5-Trimethylbenzene

Concen: 0.181 ppbv m

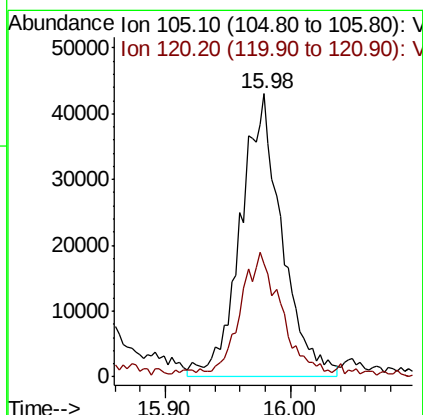
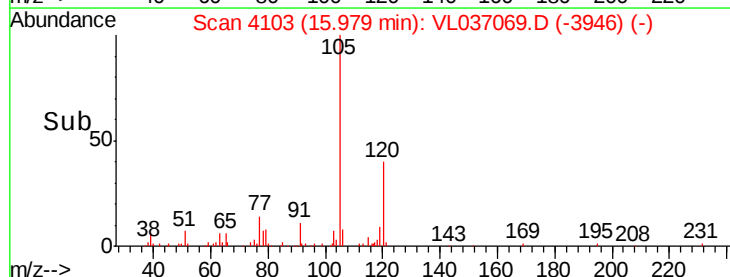
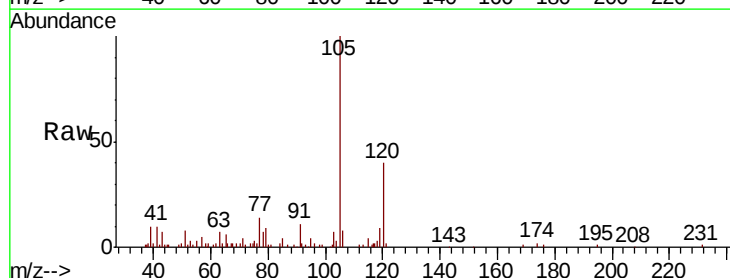
RT: 15.98 min Scan# 4103

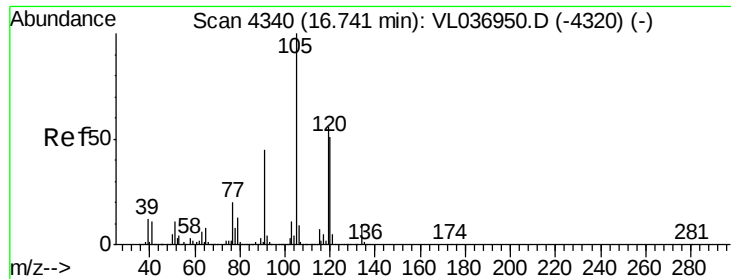
Delta R.T. 0.01 min

Lab File: VL037069.D

Acq: 1 Jun 2021 14:27

Tgt Ion:	105	Resp:	99133
Ion Ratio	Lower	Upper	
105	100		
120	40.2	38.6	58.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.582 ppbv
 RT: 16.74 min Scan# 4340
 Delta R.T. -0.00 min
 Lab File: VL037069.D
 Acq: 1 Jun 2021 14:27

Instrument :
 MSVOA_L
 ClientSampleId :
 HSG1DL

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	43.0	40.6	61.0
91	9.3	37.4	56.0#
77	11.7	16.2	24.4#

Manual Integrations
 APPROVED

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