

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040921\
 Data File : VL036775.D
 Acq On : 9 Apr 2021 15:30
 Operator : SY/AP
 Sample : M1987-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 GOI-IA-4(2021)DUP

Manual Integrations
 APPROVED

MMDadoda
 4/12/2021 5:42:45 PM

Quant Time: Apr 10 11:45:05 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	1275890	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3065007	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	2411383	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.41	95	1558561	8.11	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	81.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	44885	0.216	ppbv	91
3) Chlorodifluoromethane	2.98	51	87887	0.369	ppbv #	88
4) Chloromethane	3.13	50	43043	0.511	ppbv	99
9) Propene	3.01	41	784421m	10.322	ppbv	
10) Heptane	8.11	43	33421m	0.173	ppbv	
11) Trichlorofluoromethane	3.94	101	39810	0.188	ppbv	84
13) Ethanol	3.60	45	778275	85.999	ppbv	97
15) Acetone	3.85	43	367245m	2.924	ppbv	
19) Isopropyl Alcohol	3.97	45	165648m	2.398	ppbv	
20) Methylene Chloride	4.33	84	585458	9.957	ppbv	93
26) Hexane	5.67	57	541246	3.907	ppbv #	47
30) Cyclohexane	7.14	84	33112m	0.295	ppbv	
34) 2-Butanone	5.24	43	67380	0.450	ppbv	93
35) Carbon Tetrachloride	7.01	117	14424m	0.061	ppbv	
36) Benzene	6.88	78	94003	0.333	ppbv	95
44) 2,2,4-Trimethylpentane	7.86	57	171050m	0.344	ppbv	
53) Toluene	9.80	91	624144	2.073	ppbv	99
58) Ethyl Benzene	12.70	91	46972m	0.134	ppbv	
59) m/p-Xylene	12.97	91	147980m	0.484	ppbv	
60) o-Xylene	13.68	91	48669m	0.164	ppbv	

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

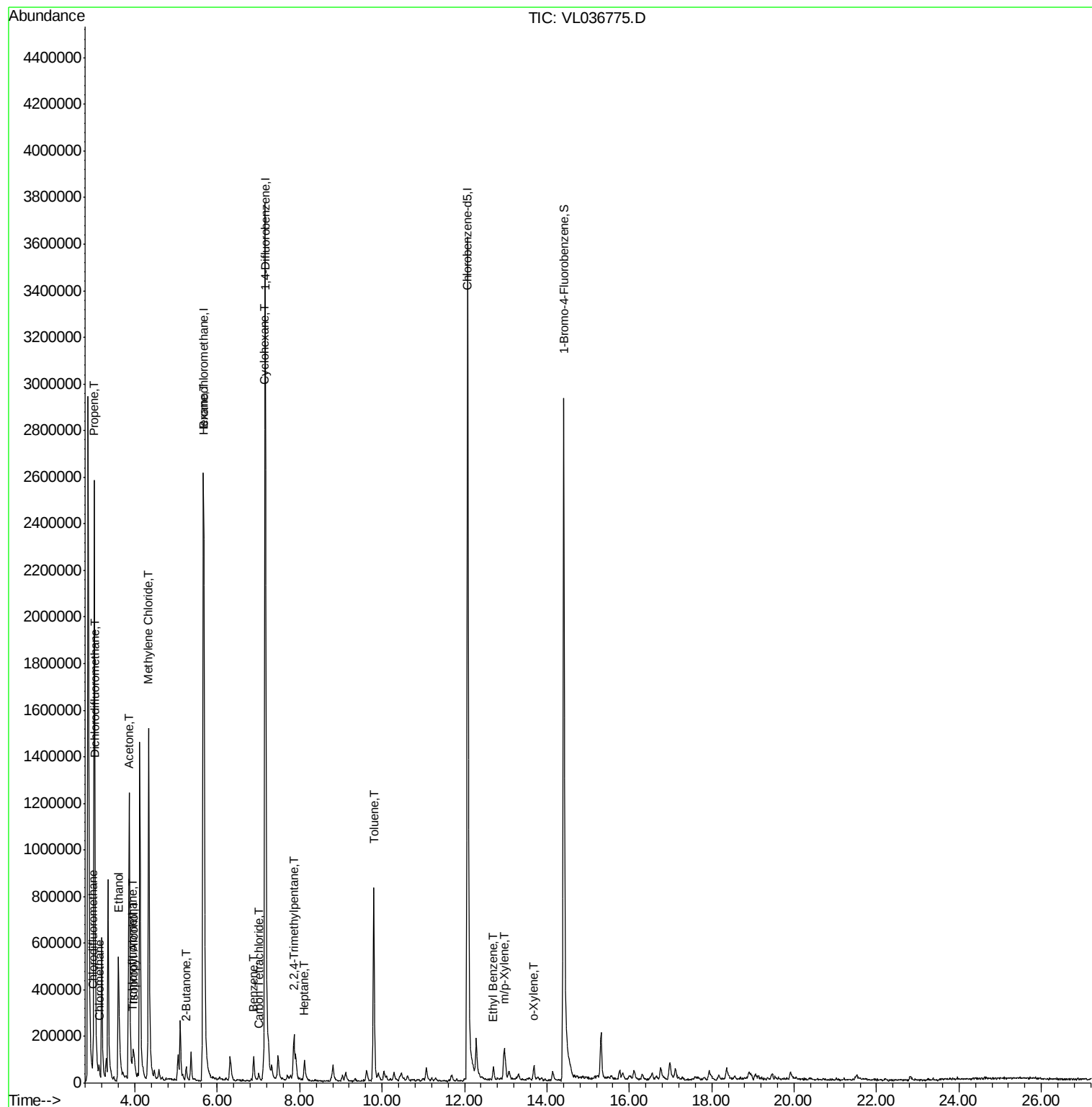
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040921\
Data File : VL036775.D
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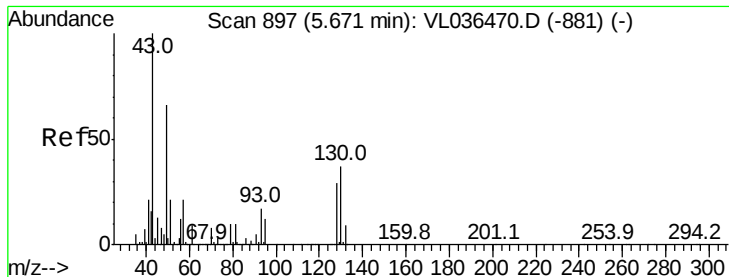
Instrument :
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Quant Time: Apr 10 11:45:05 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.02 min

Lab File: VL036775.D

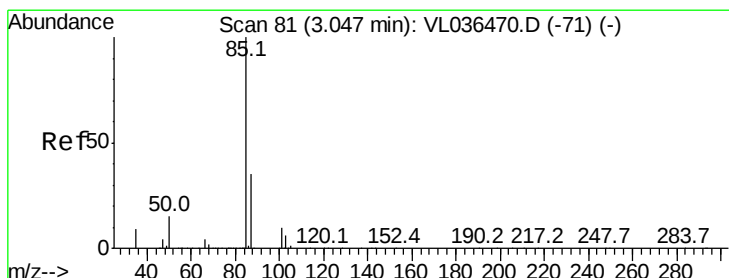
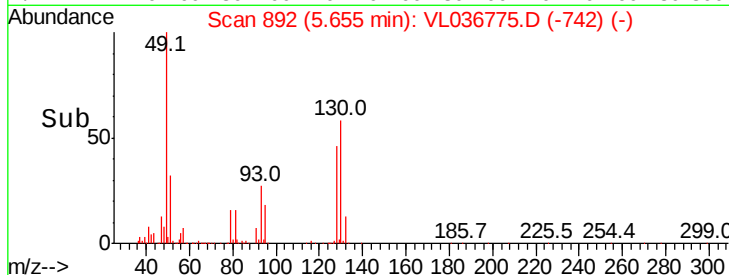
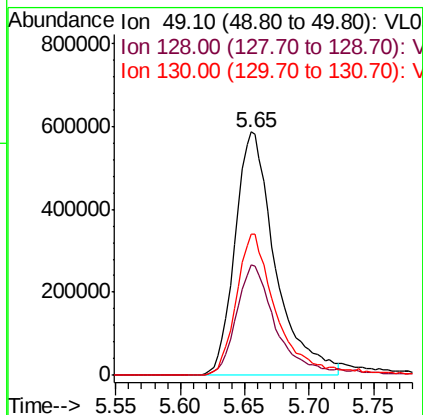
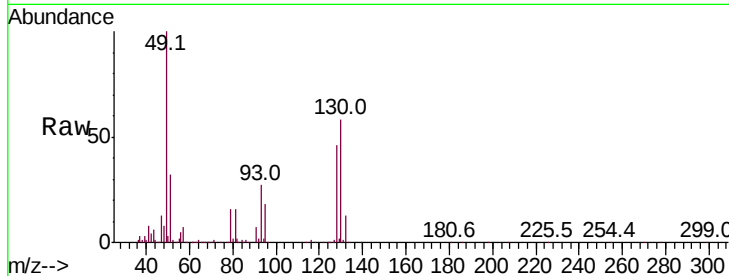
Acq: 9 Apr 2021 15:30

Instrument :
MSVOA_L
ClientSampleId :
GOI-IA-4(2021)DUP

Tot Ion:	49	Resp:	1275890
Ion	Ratio	Lower	Upper
49	100		
128	46.9	23.5	70.6
130	59.2	29.1	87.4

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#2

Dichlorodifluoromethane

Concen: 0.216 ppbv

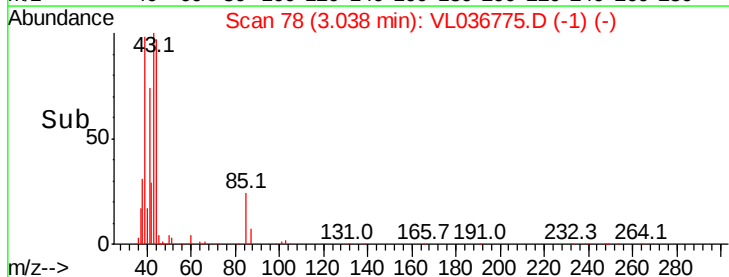
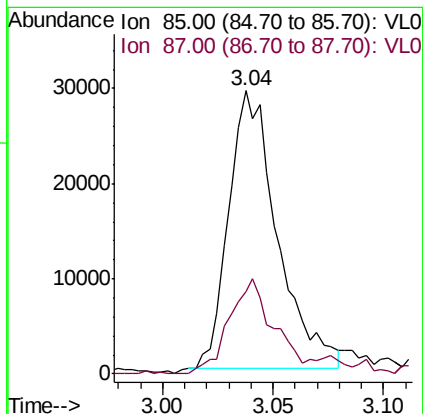
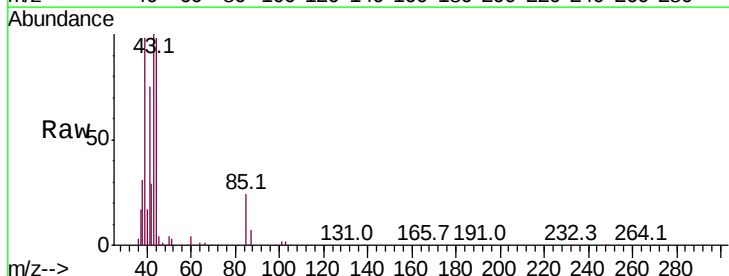
RT: 3.04 min Scan# 78

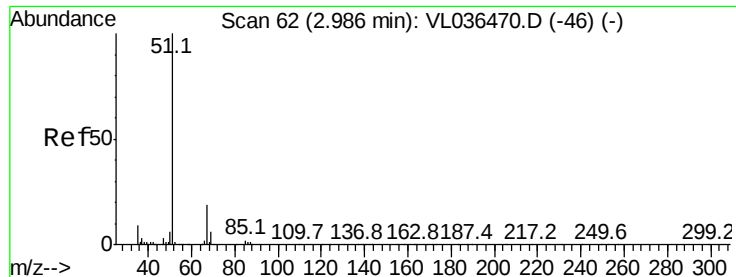
Delta R.T. -0.01 min

Lab File: VL036775.D

Acq: 9 Apr 2021 15:30

Tgt Ion:	85	Resp:	44885
Ion	Ratio	Lower	Upper
85	100		
87	29.6	27.8	41.8





#3

Chlorodifluoromethane

Concen: 0.369 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL036775.D

Acq: 9 Apr 2021 15:30

Instrument :

MSVOA_L

ClientSampleId :

GOI-IA-4(2021)DUP

Tot Ion: 51 Resp: 87887

Ion Ratio Lower Upper

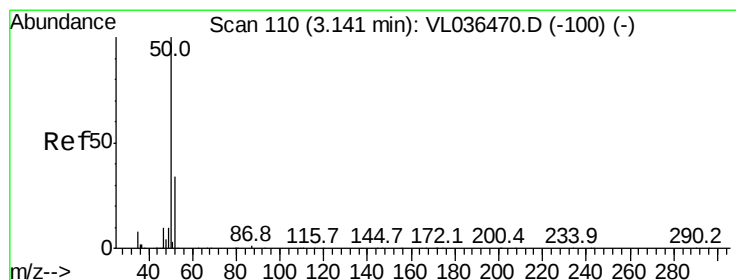
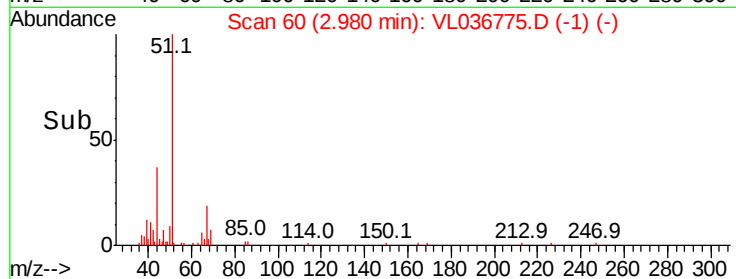
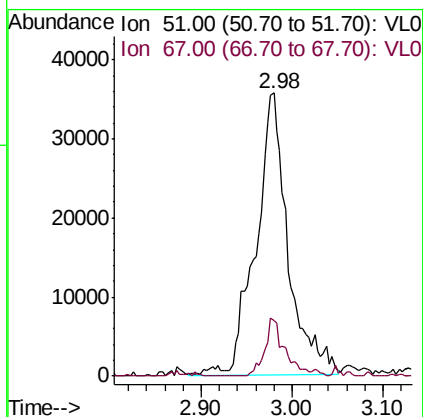
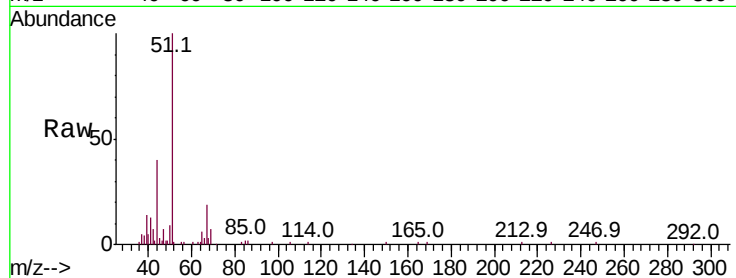
51 100

67 13.0 14.7 22.1#

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#4

Chloromethane

Concen: 0.511 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL036775.D

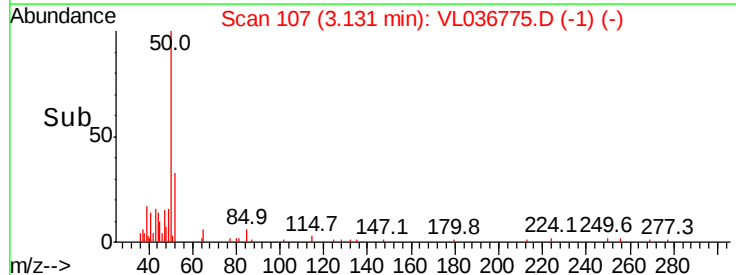
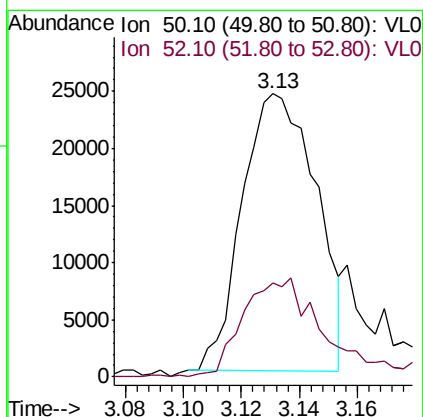
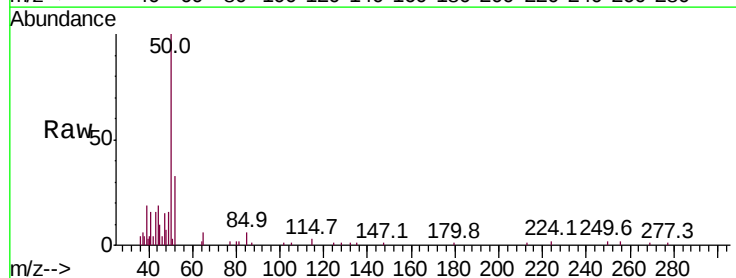
Acq: 9 Apr 2021 15:30

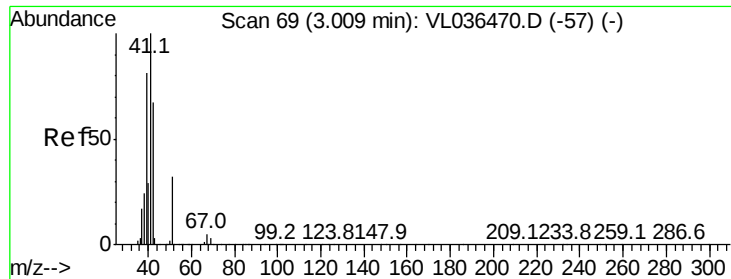
Tgt Ion: 50 Resp: 43043

Ion Ratio Lower Upper

50 100

52 34.6 27.0 40.6





#9

Propene

Concen: 10.322 ppbv m

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL036775.D

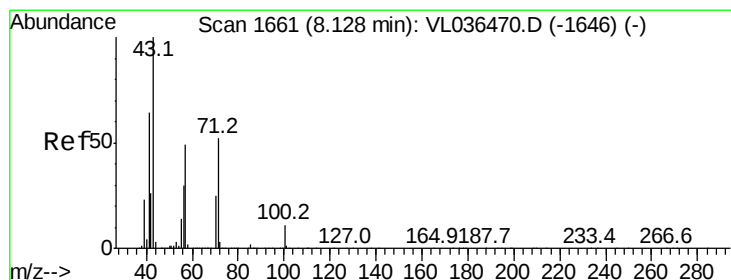
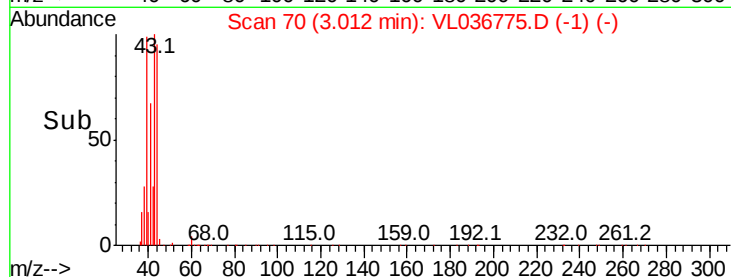
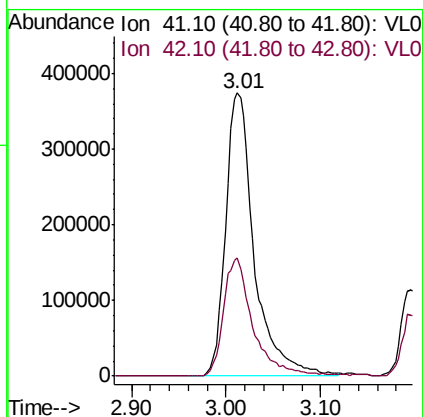
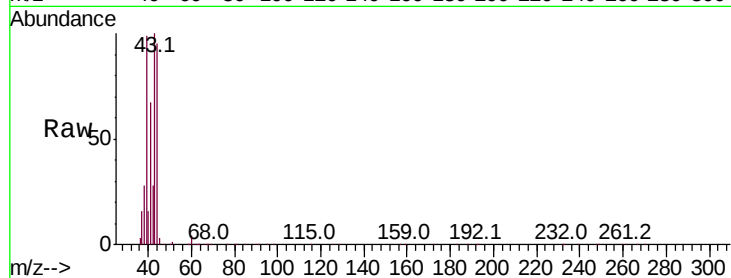
Acq: 9 Apr 2021 15:30

Instrument :
MSVOA_L
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Tot Ion	Ratio	Lower	Upper
41	100		
42	17.2	57.0	85.4#

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#10

Heptane

Concen: 0.173 ppbv m

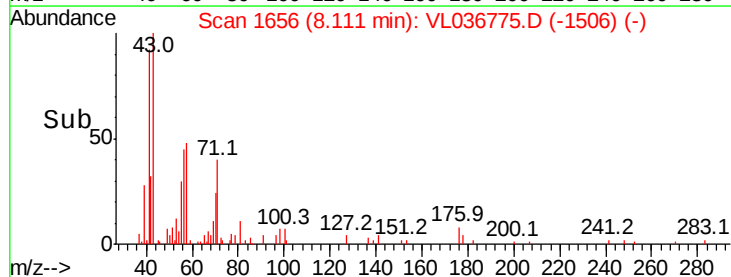
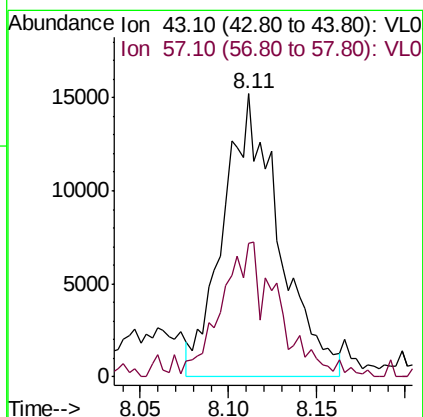
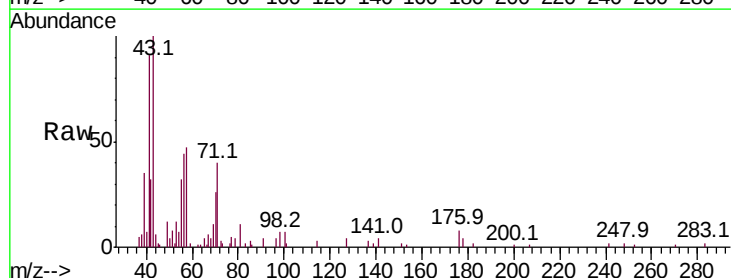
RT: 8.11 min Scan# 1656

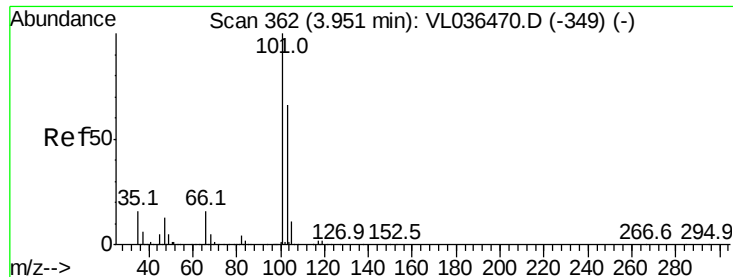
Delta R.T. -0.02 min

Lab File: VL036775.D

Acq: 9 Apr 2021 15:30

Tgt Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.0	58.6#





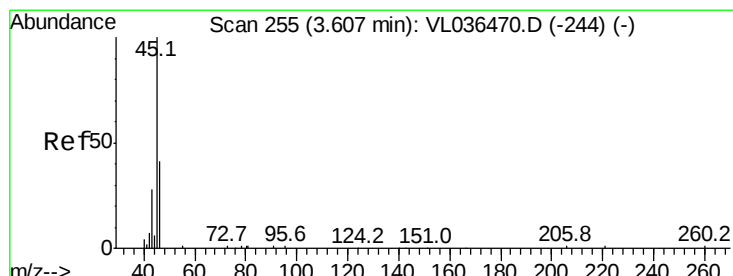
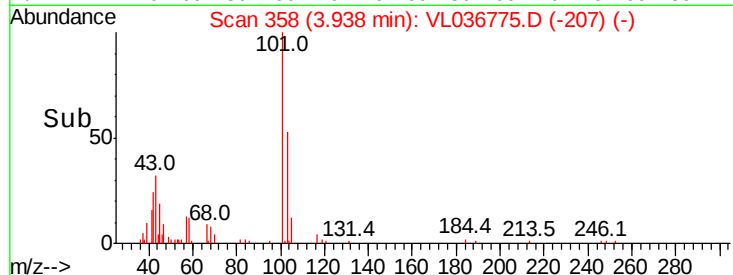
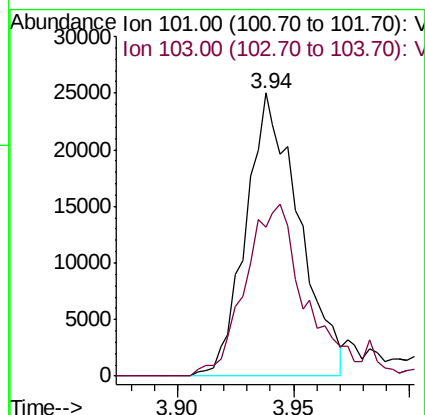
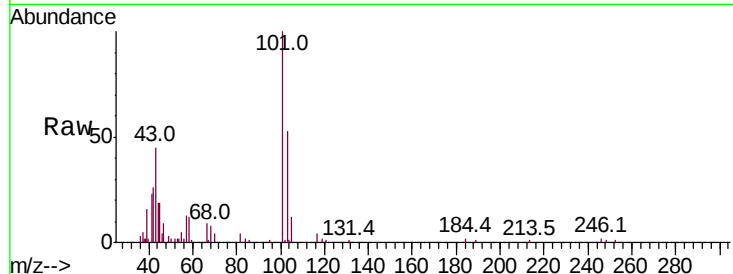
#11
Trichlorofluoromethane
Concen: 0.188 ppbv
RT: 3.94 min Scan# 358
Delta R.T. -0.01 min
Lab File: VL036775.D
Acq: 9 Apr 2021 15:30

Instrument :
MSVOA_L
ClientSampleId :
GOI-IA-4(2021)DUP

Tot Ion:101 Resp: 39810
Ion Ratio Lower Upper
101 100
103 52.8 52.5 78.7

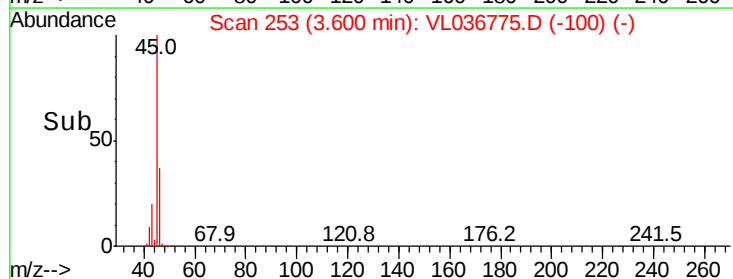
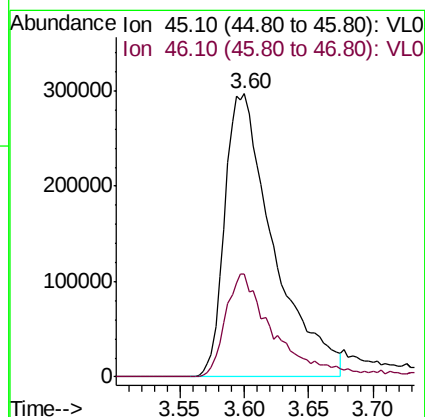
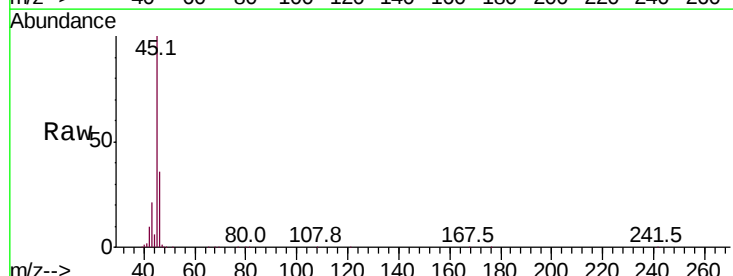
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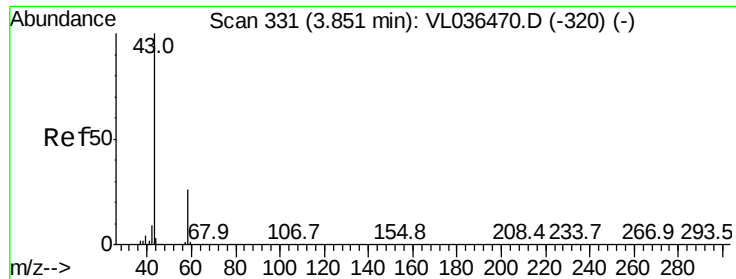
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#13
Ethanol
Concen: 85.999 ppbv
RT: 3.60 min Scan# 253
Delta R.T. -0.01 min
Lab File: VL036775.D
Acq: 9 Apr 2021 15:30

Tgt Ion: 45 Resp: 778275
Ion Ratio Lower Upper
45 100
46 39.3 16.6 66.2





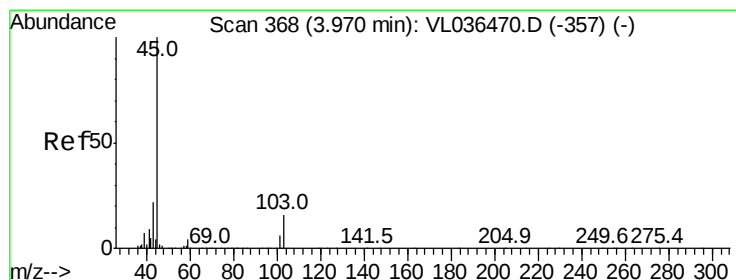
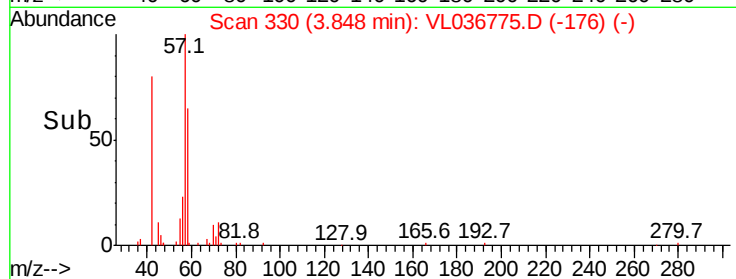
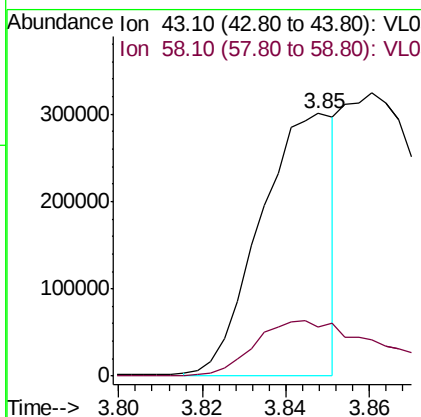
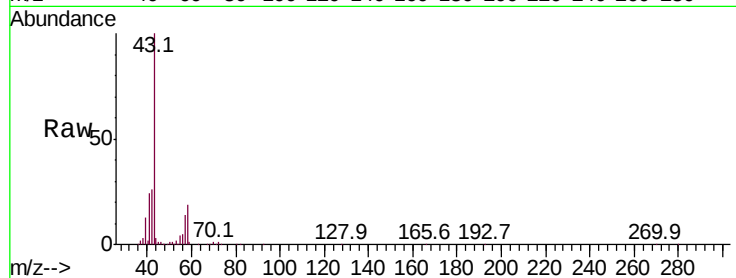
#15
Acetone
Concen: 2.924 ppbv m
RT: 3.85 min Scan# 330
Delta R.T. -0.00 min
Lab File: VL036775.D
Acq: 9 Apr 2021 15:30

Instrument :
MSVOA_L
ClientSampleId :
GOI-IA-4(2021)DUP

Tot Ion: 43 Resp: 367245
Ion Ratio Lower Upper
43 100
58 40.2 21.2 31.8#

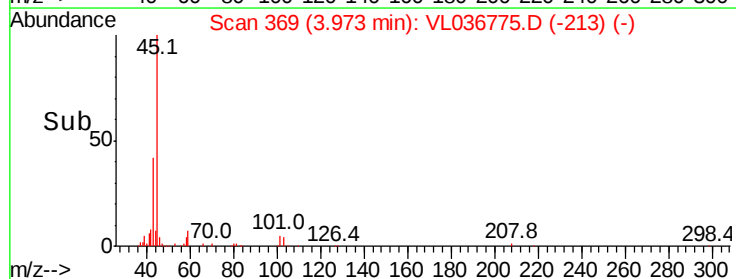
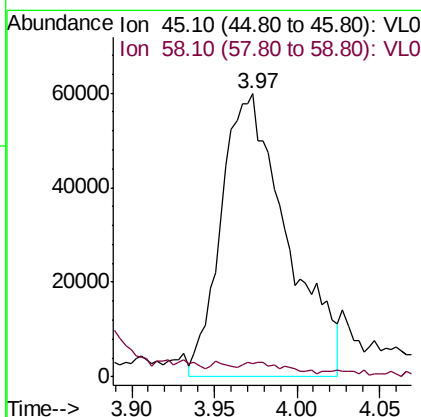
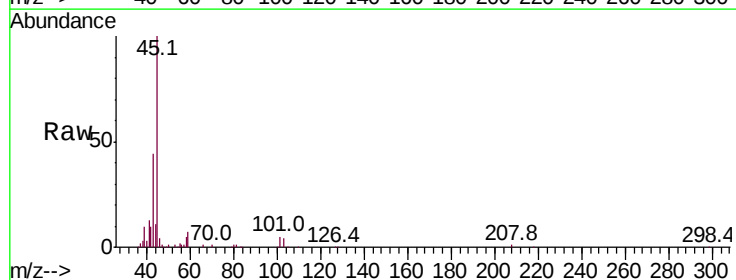
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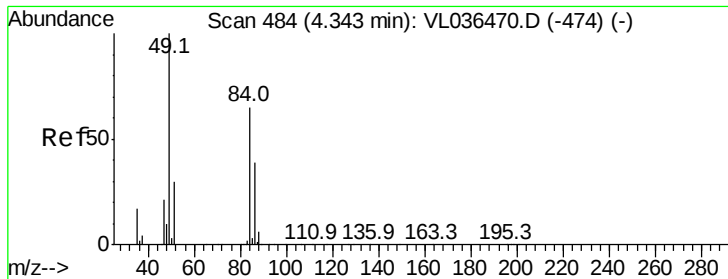
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#19
Isopropyl Alcohol
Concen: 2.398 ppbv m
RT: 3.97 min Scan# 369
Delta R.T. 0.00 min
Lab File: VL036775.D
Acq: 9 Apr 2021 15:30

Tgt Ion: 45 Resp: 165648
Ion Ratio Lower Upper
45 100
58 3.5 2.9 4.3





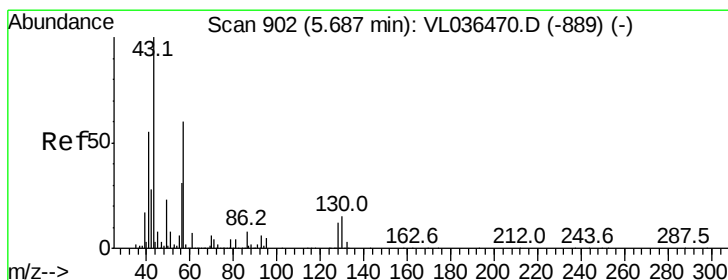
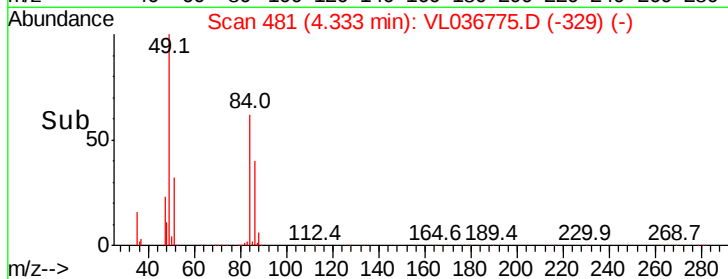
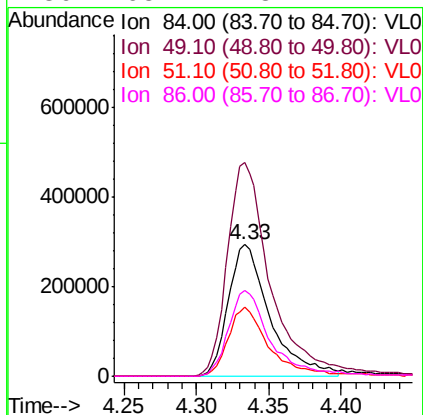
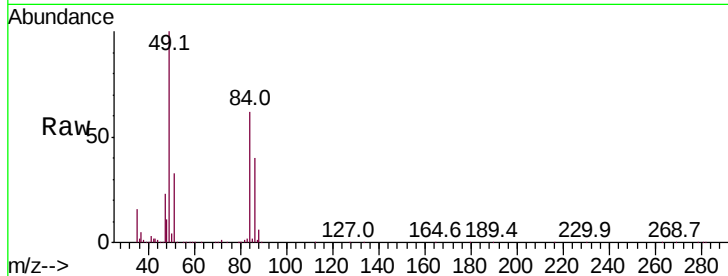
#20
Methvlene Chloride
Concen: 9.957 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.01 min
Lab File: VL036775.D
Acq: 9 Apr 2021 15:30

Instrument :
MSVOA_L
ClientSampleId :
GOI-IA-4(2021)DUP

Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100				
49	162.3	122.9	184.3		
51	52.7	36.9	55.3		
86	65.2	48.2	72.4		

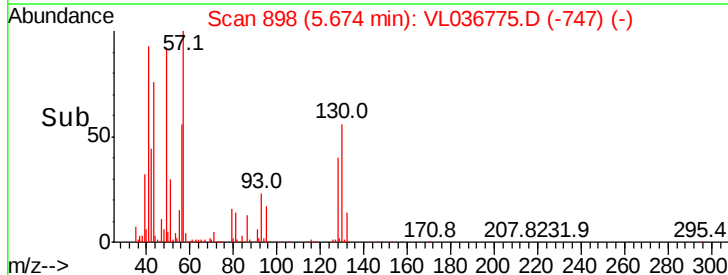
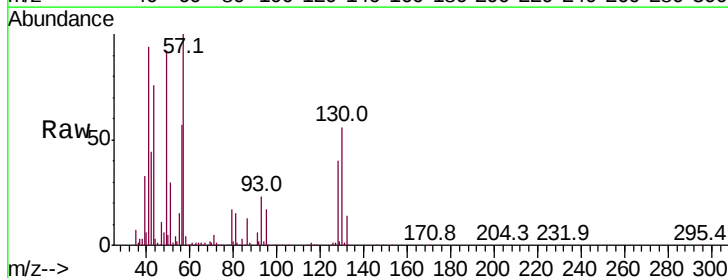
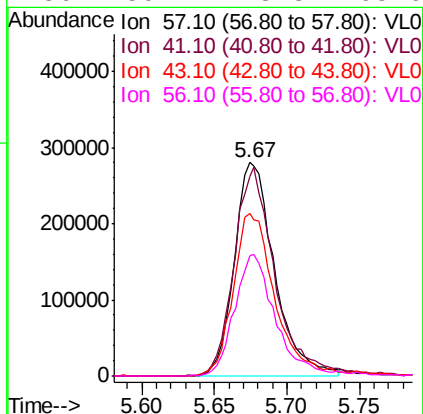
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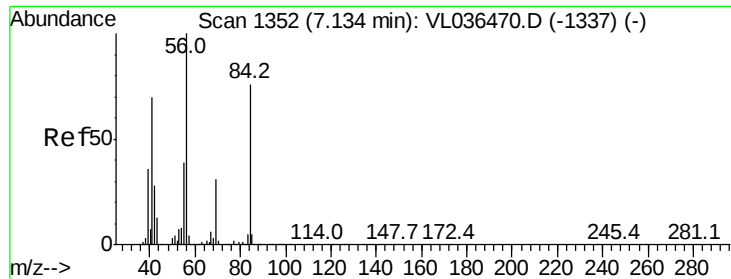
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#26
Hexane
Concen: 3.907 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL036775.D
Acq: 9 Apr 2021 15:30

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	100.6	77.2	115.8		
43	80.6	173.8	260.6		
56	59.2	43.8	65.6		





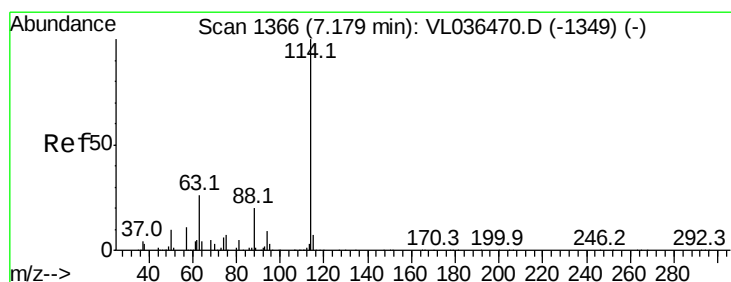
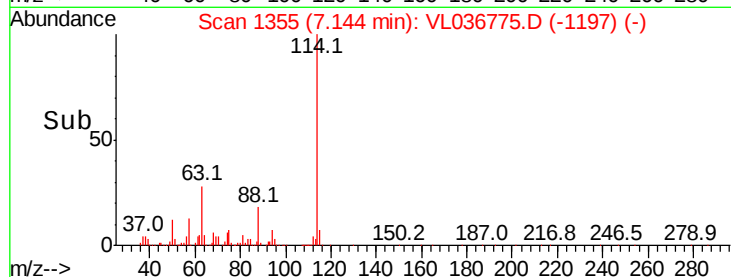
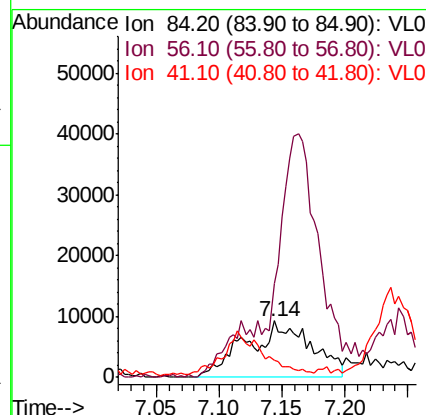
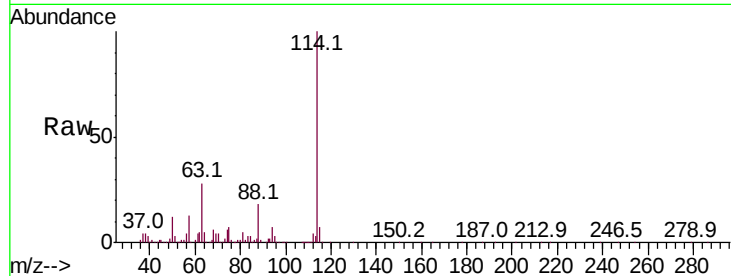
#30
Cvclohexane
Concen: 0.295 ppbv m
RT: 7.14 min Scan# 1355
Delta R.T. 0.01 min
Lab File: VL036775.D
Acq: 9 Apr 2021 15:30

Instrument :
MSVOA_L
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GOI-IA-4(2021)DUP

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	114.6	171.8#
41	48.1	75.3	112.9#

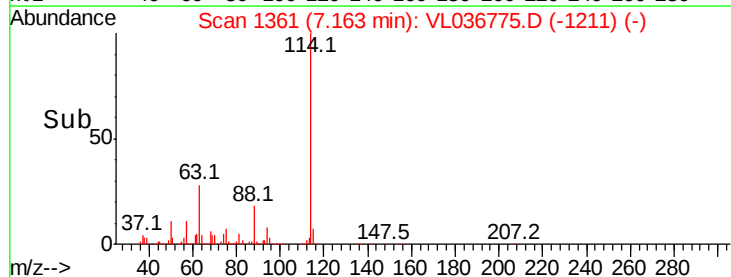
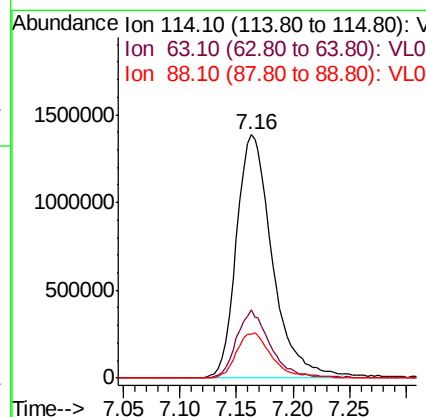
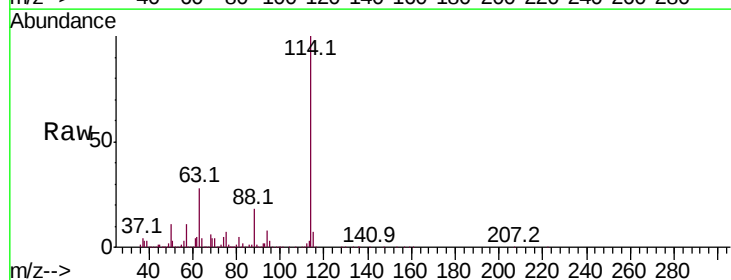
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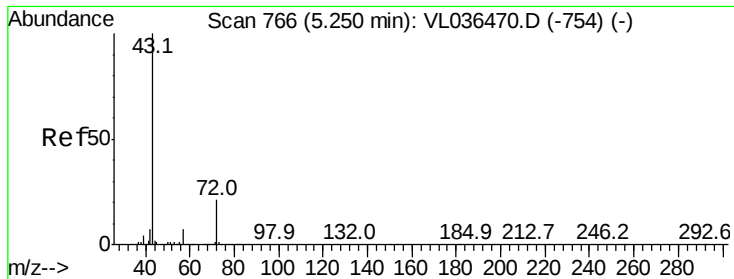
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. -0.02 min
Lab File: VL036775.D
Acq: 9 Apr 2021 15:30

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.7	22.4	33.6
88	18.8	15.4	23.0





#34

2-Butanone

Concen: 0.450 ppbv

RT: 5.24 min Scan# 763

Delta R.T. -0.01 min

Lab File: VL036775.D

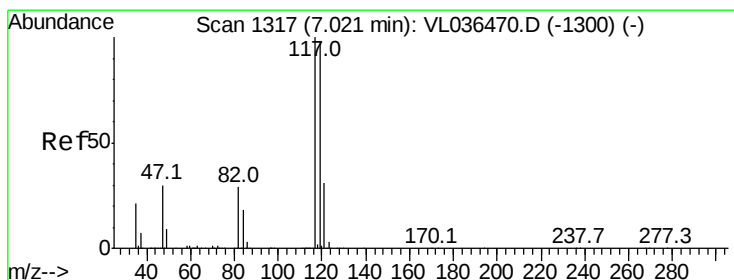
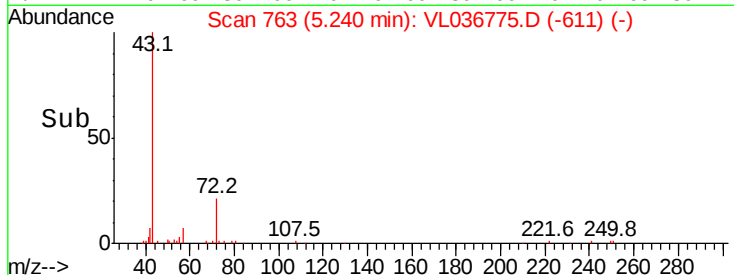
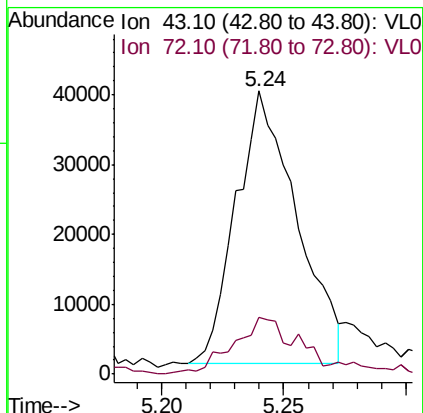
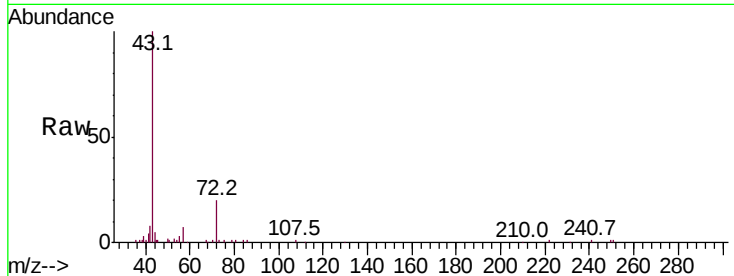
Acq: 9 Apr 2021 15:30

Instrument :
MSVOA_L
ClientSampleId :
GOI-IA-4(2021)DUP

Tot Ion	43	Resp	67380
Ion Ratio	100	Lower	Upper
43	100		
72	24.8	17.0	25.6

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#35

Carbon Tetrachloride

Concen: 0.061 ppbv m

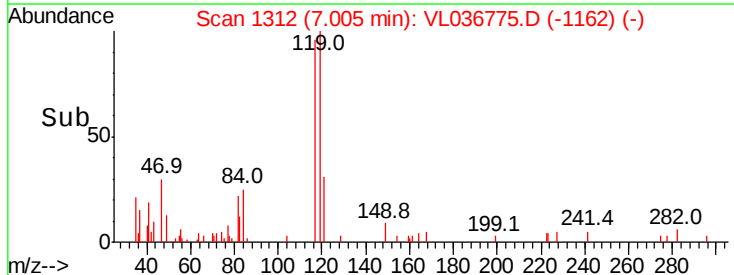
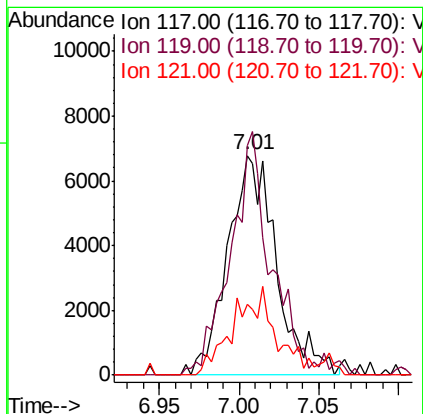
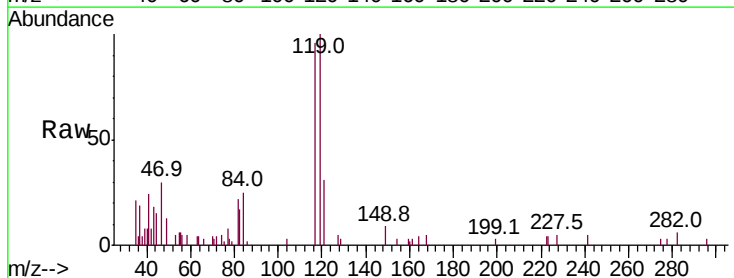
RT: 7.01 min Scan# 1312

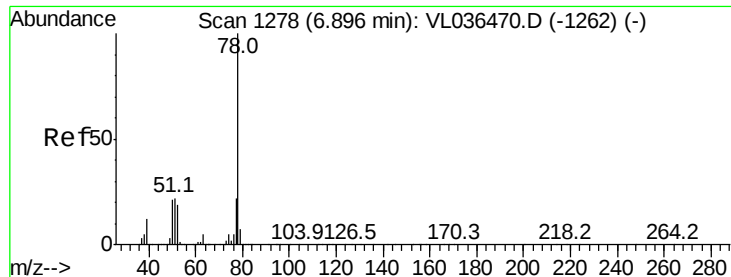
Delta R.T. -0.02 min

Lab File: VL036775.D

Acq: 9 Apr 2021 15:30

Tgt Ion	117	Resp	14424
Ion Ratio	100	Lower	Upper
117	100		
119	104.5	78.2	117.2
121	32.2	24.5	36.7





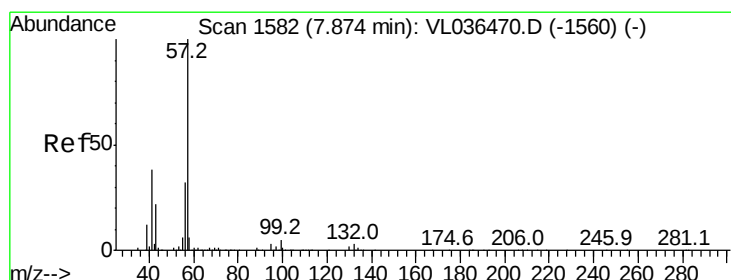
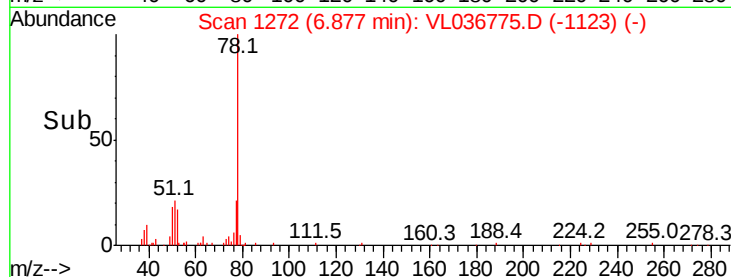
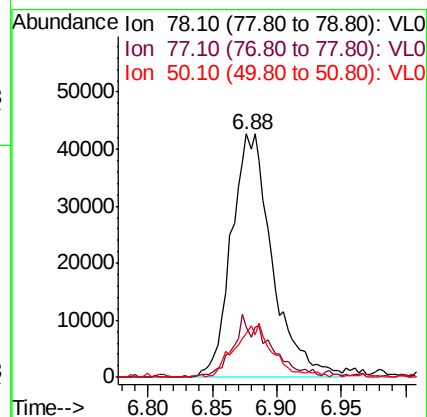
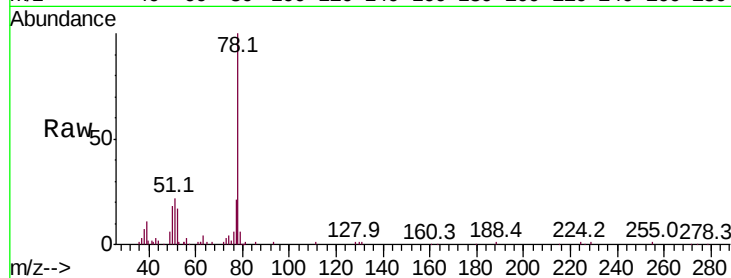
#36
Benzene
Concen: 0.333 ppbv
RT: 6.88 min Scan# 1272
Delta R.T. -0.02 min
Lab File: VL036775.D
Acq: 9 Apr 2021 15:30

Instrument :
MSVOA_L
ClientSampleId :
GOI-IA-4(2021)DUP

Tot Ion	Ratio	Lower	Upper
78	100		
77	20.8	18.0	27.0
50	18.0	16.5	24.7

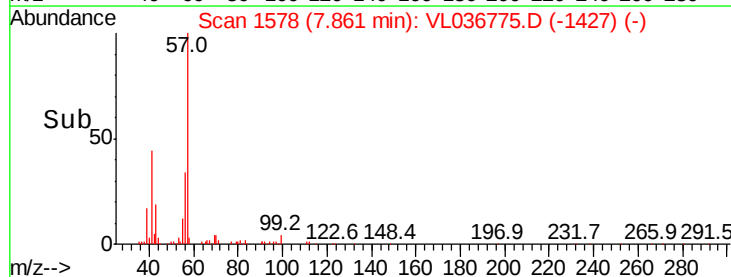
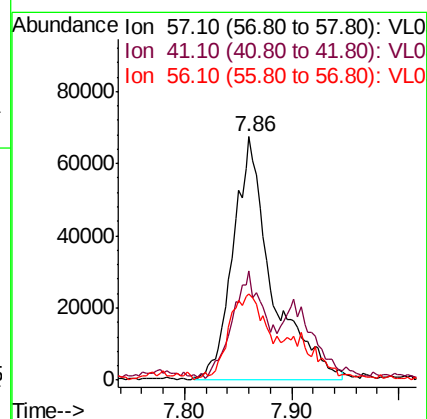
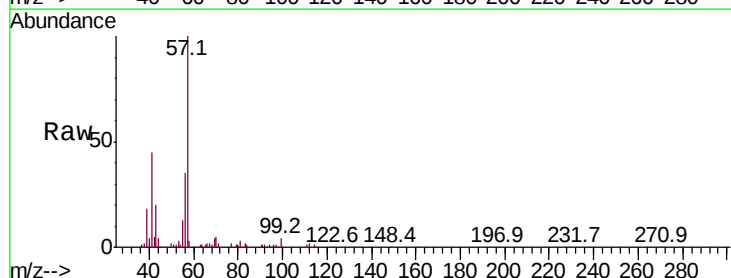
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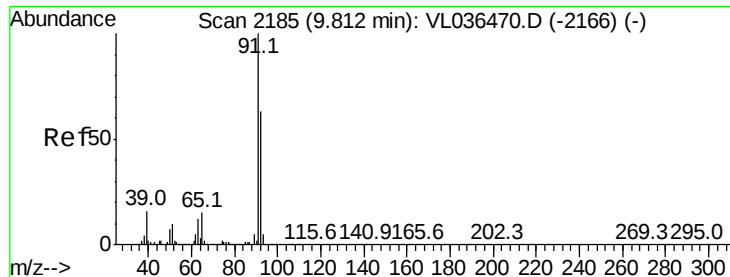
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#44
2,2,4-Trimethylpentane
Concen: 0.344 ppbv m
RT: 7.86 min Scan# 1578
Delta R.T. -0.01 min
Lab File: VL036775.D
Acq: 9 Apr 2021 15:30

Tgt Ion	Ratio	Lower	Upper
57	100		
41	36.7	28.8	43.2
56	50.9	26.1	39.1#





#53

Toluene

Concen: 2.073 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL036775.D

Acq: 9 Apr 2021 15:30

Instrument :
MSVOA_L
ClientSampleId :
GOI-IA-4(2021)DUP

Tot Ion: 91 Resp: 624144

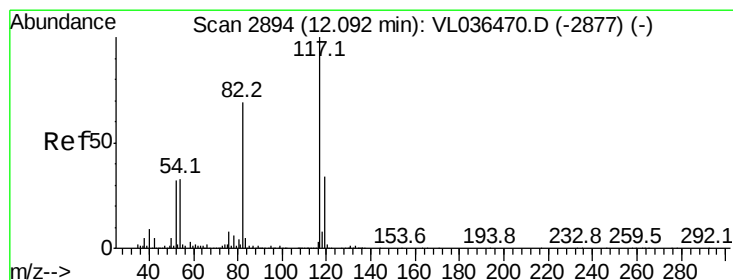
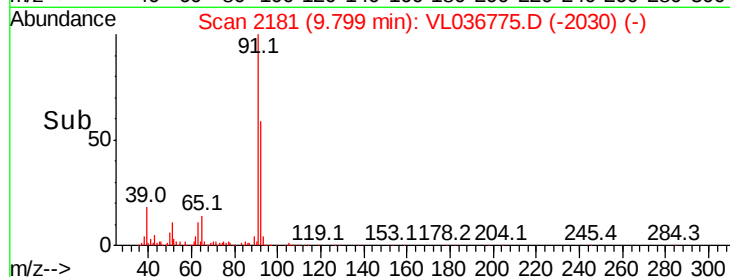
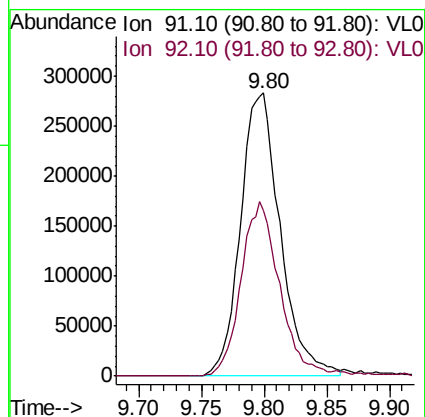
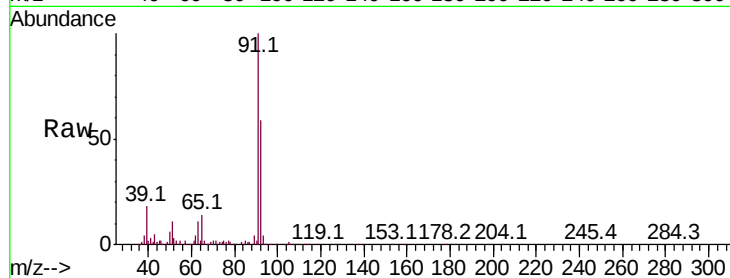
Ion Ratio Lower Upper

91 100

92 60.4 48.8 73.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.02 min

Lab File: VL036775.D

Acq: 9 Apr 2021 15:30

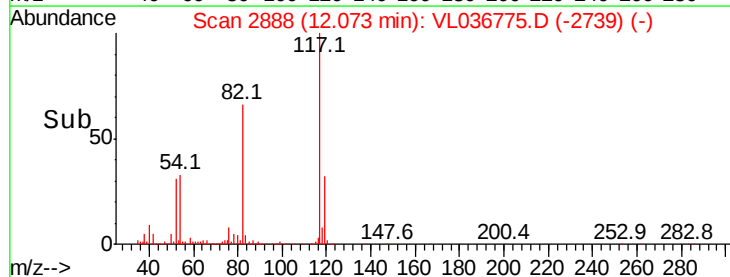
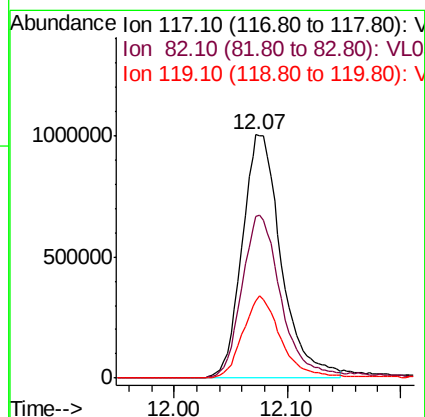
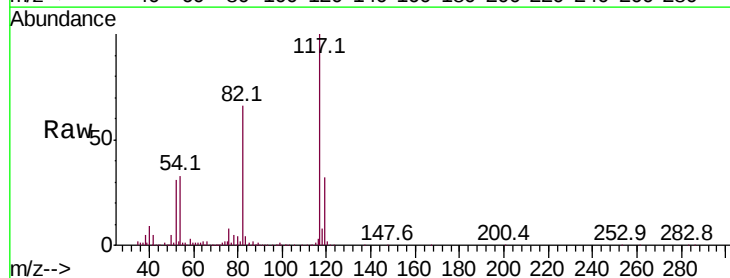
Tgt Ion: 117 Resp: 2411383

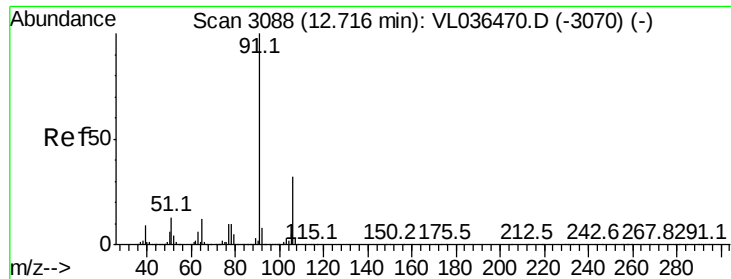
Ion Ratio Lower Upper

117 100

82 69.7 57.4 86.0

119 33.6 47.4 71.0#





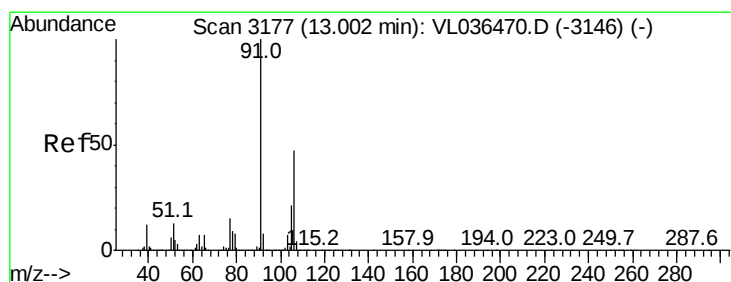
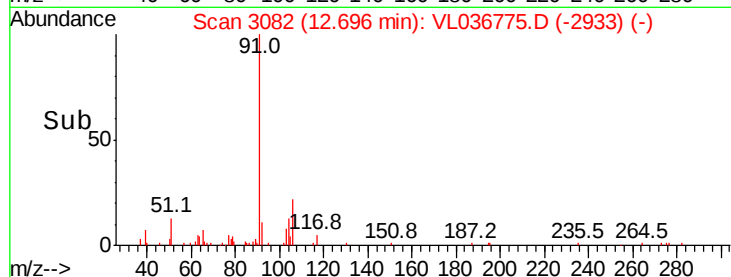
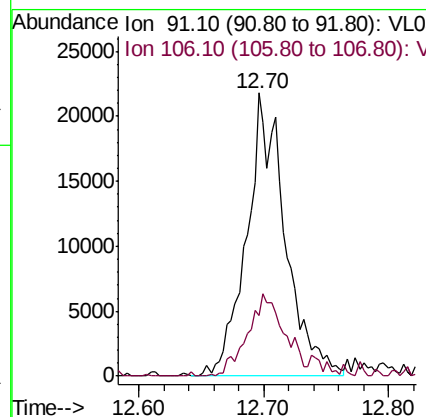
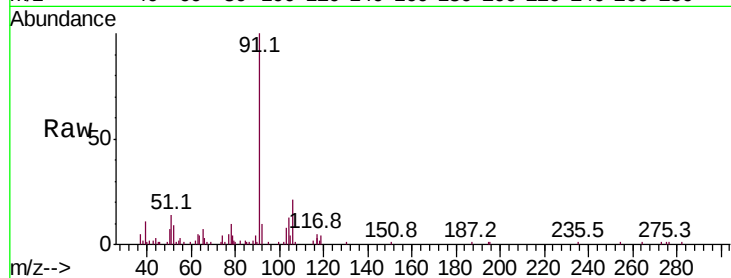
#58
Ethyl Benzene
Concen: 0.134 ppbv m
RT: 12.70 min Scan# 3082
Delta R.T. -0.02 min
Lab File: VL036775.D
Acq: 9 Apr 2021 15:30

Instrument :
MSVOA_L
ClientSampleId :
GOI-IA-4(2021)DUP

Tot Ion: 91 Resp: 46972
Ion Ratio Lower Upper
91 100
106 21.4 25.3 37.9#

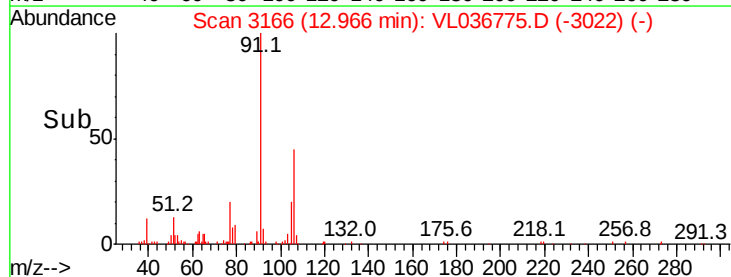
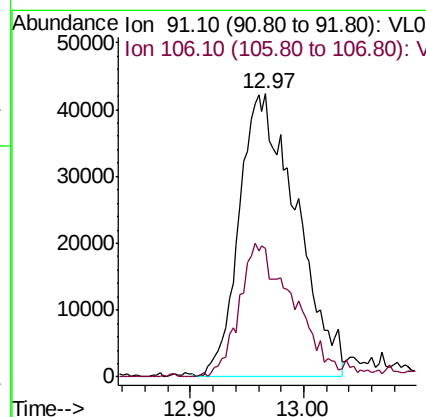
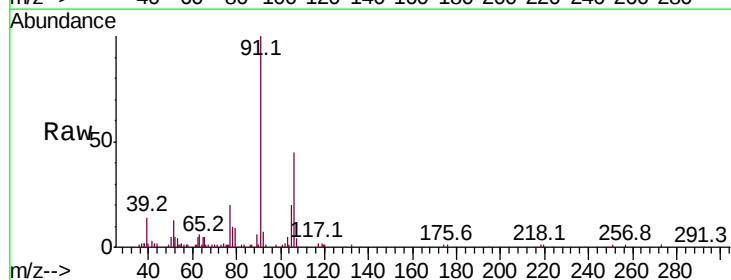
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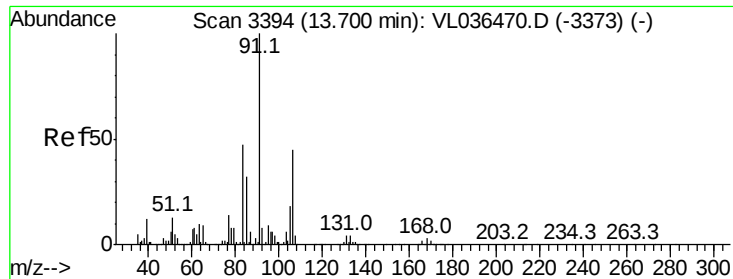
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#59
m/p-Xylene
Concen: 0.484 ppbv m
RT: 12.97 min Scan# 3166
Delta R.T. -0.04 min
Lab File: VL036775.D
Acq: 9 Apr 2021 15:30

Tgt Ion: 91 Resp: 147980
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#





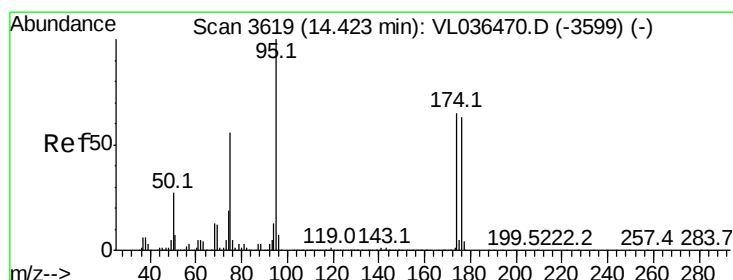
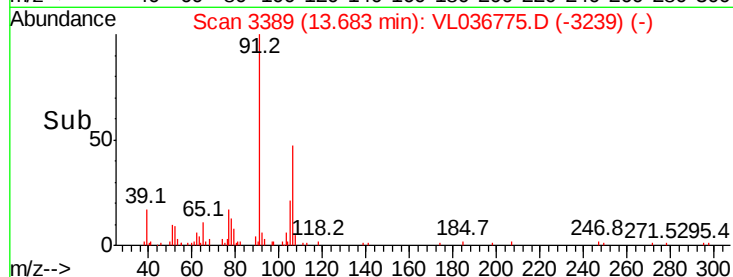
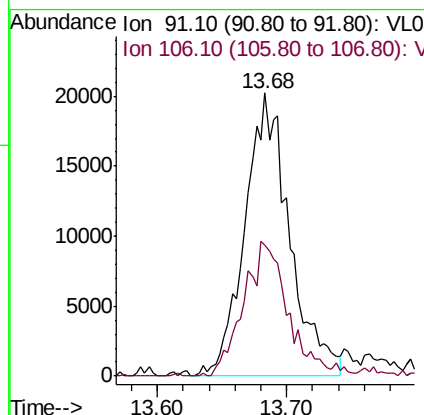
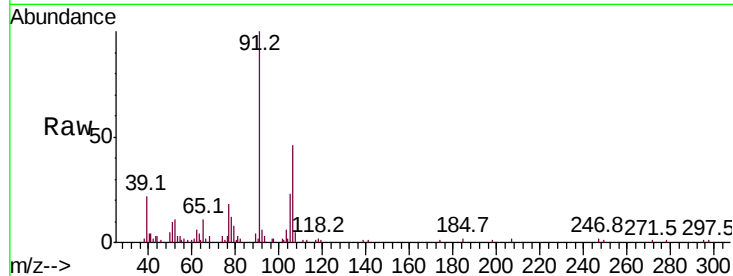
#60
o-Xylene
Concen: 0.164 ppbv m
RT: 13.68 min Scan# 3389
Delta R.T. -0.02 min
Lab File: VL036775.D
Acq: 9 Apr 2021 15:30

Instrument :
MSVOA_L
ClientSampleId :
GOI-IA-4(2021)DUP

Tot Ion: 91 Resp: 48669
Ion Ratio Lower Upper
91 100
106 48.9 22.3 66.9

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 8.110 ppbv
RT: 14.41 min Scan# 3614
Delta R.T. -0.02 min
Lab File: VL036775.D
Acq: 9 Apr 2021 15:30

Tgt Ion: 95 Resp: 1558561
Ion Ratio Lower Upper
95 100
174 66.9 51.0 76.6
175 4.6 3.9 5.9

