

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070221\
 Data File : VL037272.D
 Acq On : 2 Jul 2021 13:14
 Operator : SY/AP
 Sample : M2911-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1

Manual Integrations
 APPROVED

MMDadoda
 7/6/2021 6:44:31 PM

Quant Time: Jul 04 22:53:50 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 1
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1260808	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3619792	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3158514	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.44	95	2457239	10.27	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	61646	0.281	ppbv	94
3) Chlorodifluoromethane	2.99	51	86401m	0.352	ppbv	
4) Chloromethane	3.15	50	41448	0.507	ppbv #	86
9) Propene	3.03	41	804000m	10.257	ppbv	
11) Trichlorofluoromethane	3.96	101	158886	0.679	ppbv	95
13) Ethanol	3.62	45	382610	31.553	ppbv	49
15) Acetone	3.86	43	1277823m	8.987	ppbv	
19) Isopropyl Alcohol	3.98	45	1000213m	11.615	ppbv	
20) Methylene Chloride	4.36	84	445909	5.239	ppbv	96
26) Hexane	5.70	57	443161	2.849	ppbv #	60
29) Chloroform	5.76	83	68315m	0.284	ppbv	
34) 2-Butanone	5.27	43	102428m	0.728	ppbv	
35) Carbon Tetrachloride	7.03	117	14285m	0.059	ppbv	
36) Benzene	6.91	78	55306m	0.189	ppbv	
38) Trichloroethene	7.86	130	6738m	0.048	ppbv	
44) 2,2,4-Trimethylpentane	7.89	57	61316	0.124	ppbv #	72
53) Toluene	9.83	91	833695	2.384	ppbv	99
59) m/p-Xylene	12.99	91	69737m	0.189	ppbv	
61) Styrene	13.56	104	22144m	0.122	ppbv	
74) 1,2,4-Trimethylbenzene	16.79	105	42089m	0.106	ppbv	
76) 1,4-Dichlorobenzene	17.16	146	402023m	1.668	ppbv	

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

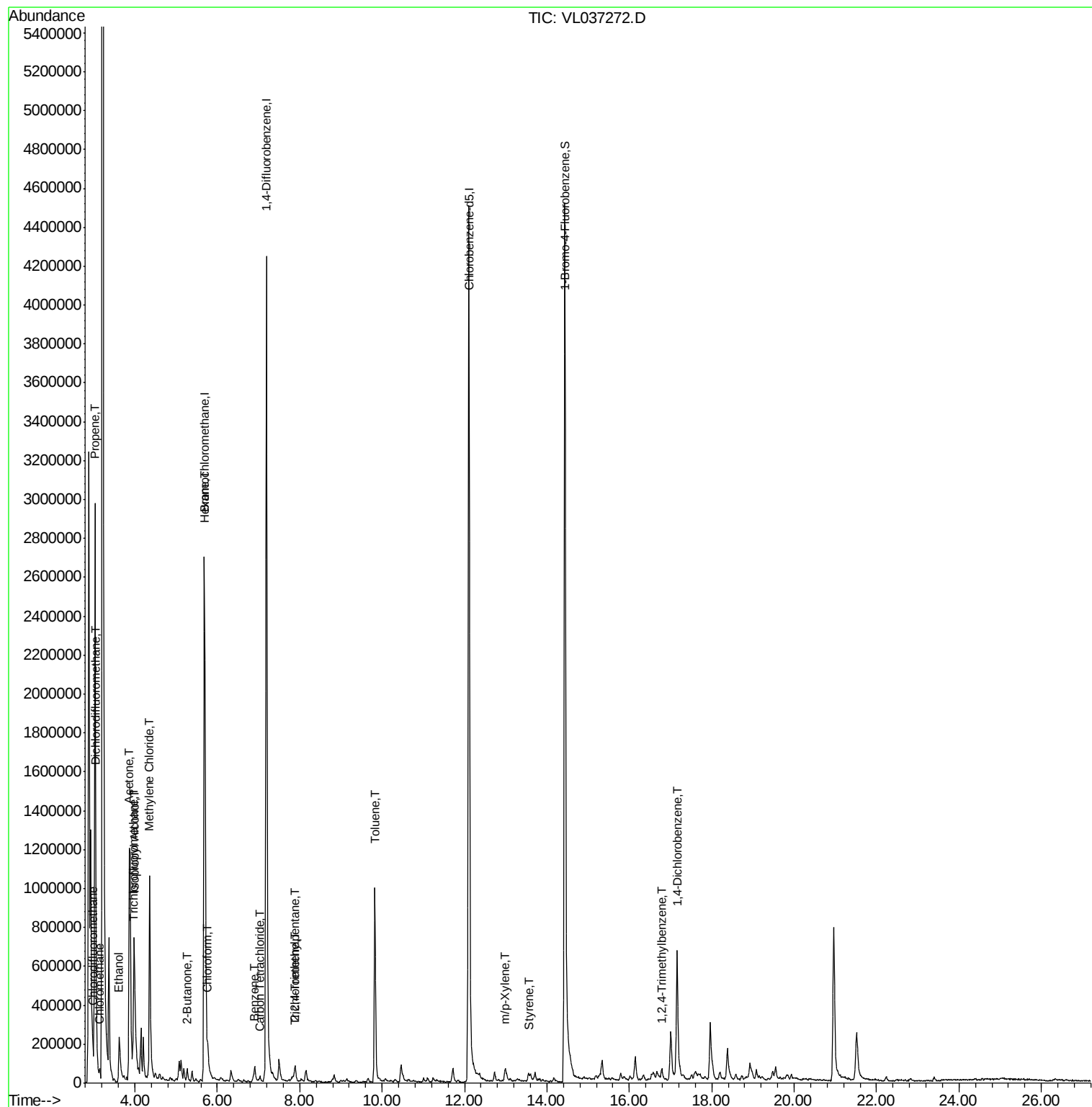
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL070221\
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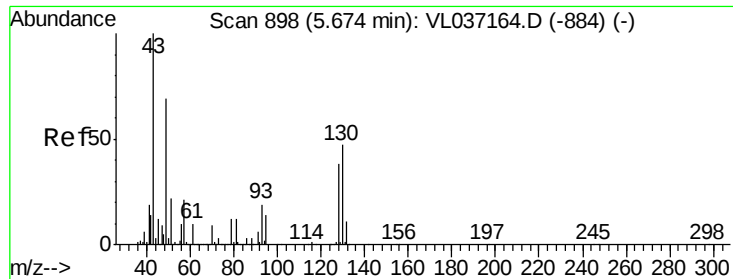
Instrument :
MSVOA_L
ClientSampleId :
1

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Quant Time: Jul 04 22:53:50 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun
QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.01 min

Lab File: VL037272.D

Acq: 2 Jul 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

1

Tot Ion: 49 Resp: 1260808

Ion Ratio Lower Upper

49 100

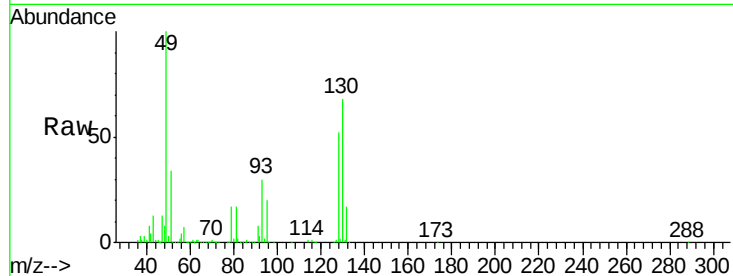
128 55.9 29.3 88.0

130 71.1 35.9 107.8

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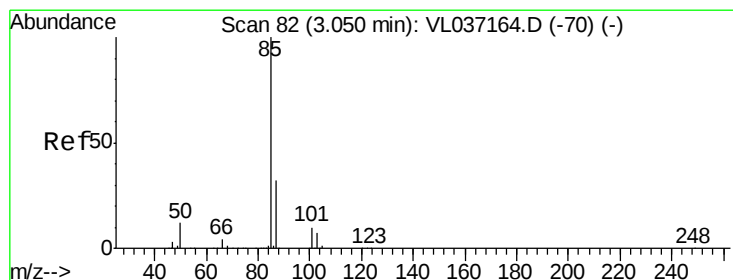
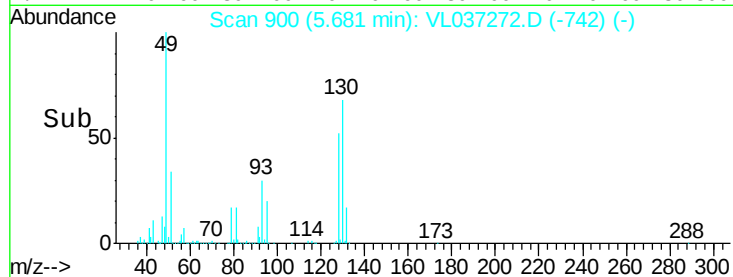
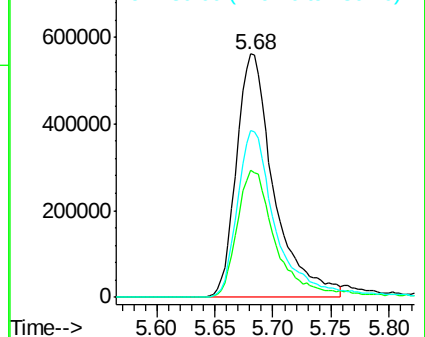
7/6/2021 6:44:31 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.281 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL037272.D

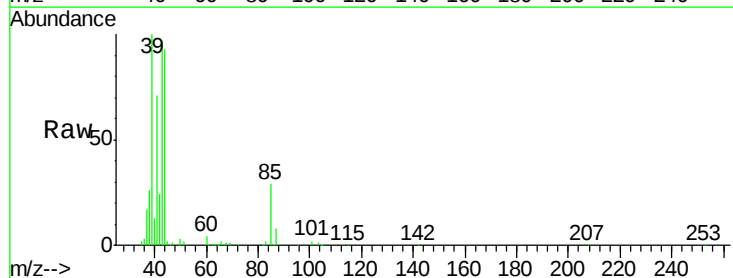
Acq: 2 Jul 2021 13:14

Tgt Ion: 85 Resp: 61646

Ion Ratio Lower Upper

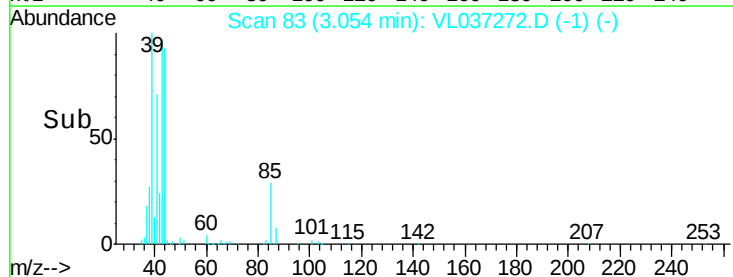
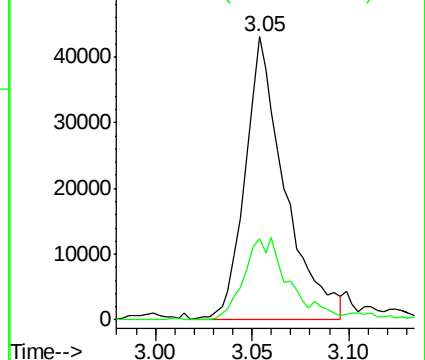
85 100

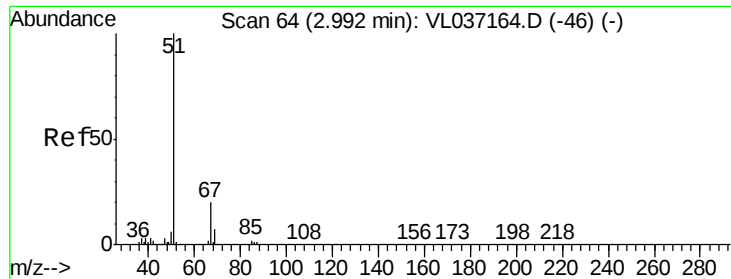
87 28.6 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

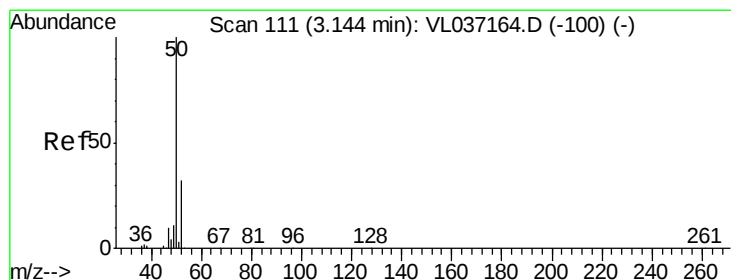
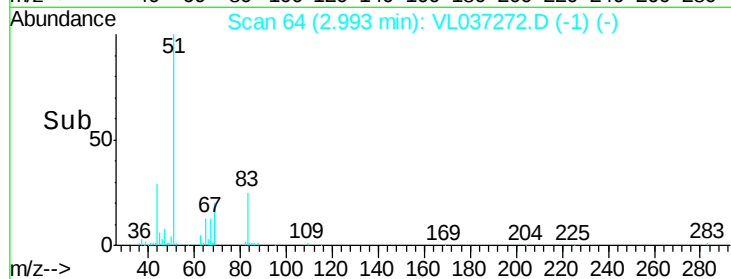
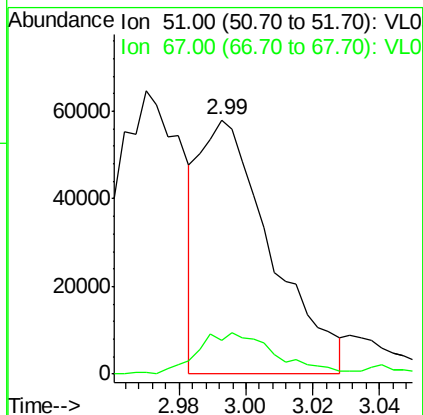
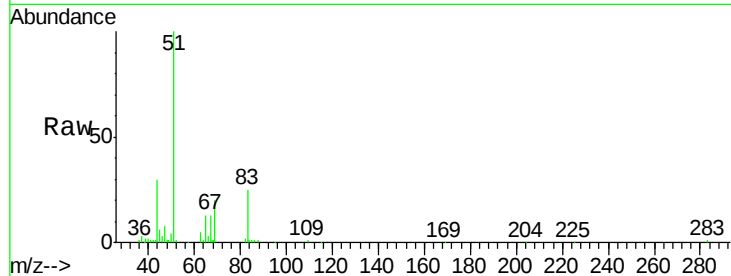
Chlorodifluoromethane
Concen: 0.352 ppbv m
RT: 2.99 min Scan# 64
Delta R.T. 0.00 min
Lab File: VL037272.D
Acq: 2 Jul 2021 13:14

Instrument :
MSVOA_L
ClientSampled :
1

Tot Ion	51	Resp	86401
Ion Ratio	100	Lower	Upper
51	100		
67	18.0	15.8	23.6

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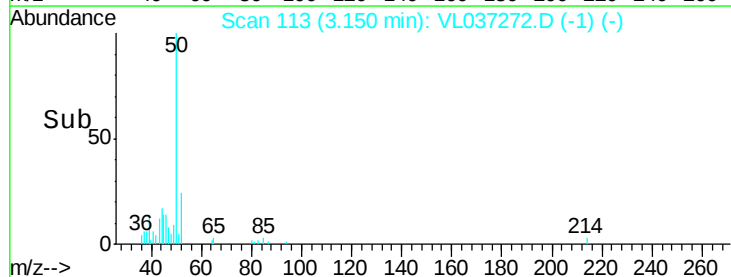
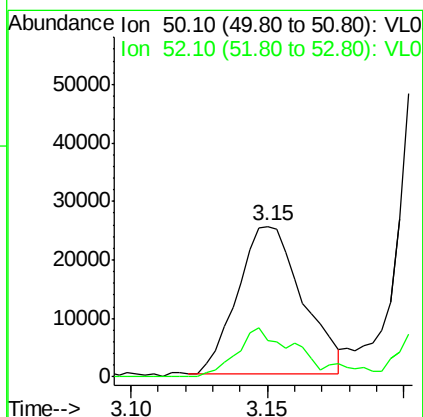
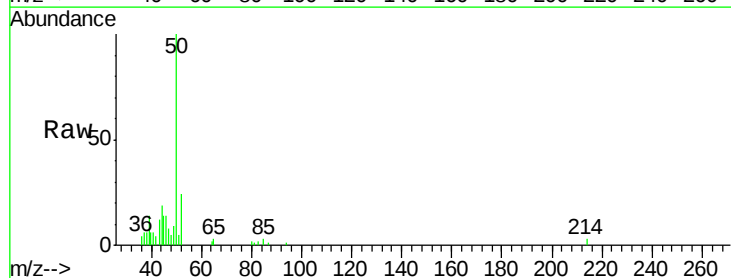
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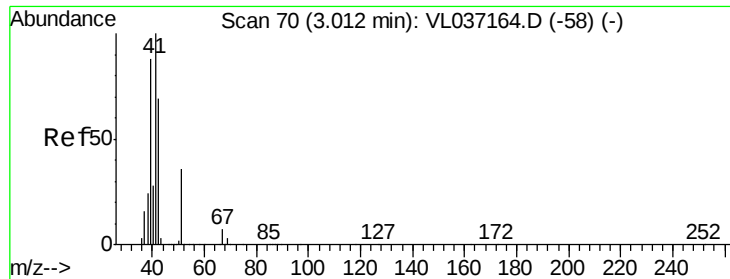


#4

Chloromethane
Concen: 0.507 ppbv
RT: 3.15 min Scan# 113
Delta R.T. 0.01 min
Lab File: VL037272.D
Acq: 2 Jul 2021 13:14

Tgt Ion	50	Resp	41448
Ion Ratio	100	Lower	Upper
50	100		
52	24.4	25.8	38.8#





#9

Propene

Concen: 10.257 ppbv m

RT: 3.03 min Scan# 75

Delta R.T. 0.02 min

Lab File: VL037272.D

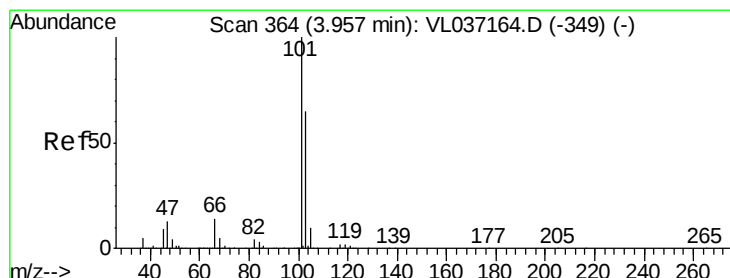
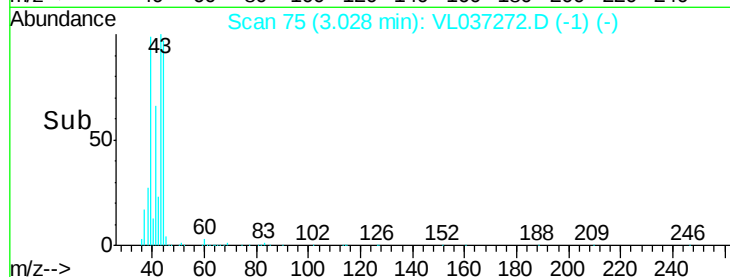
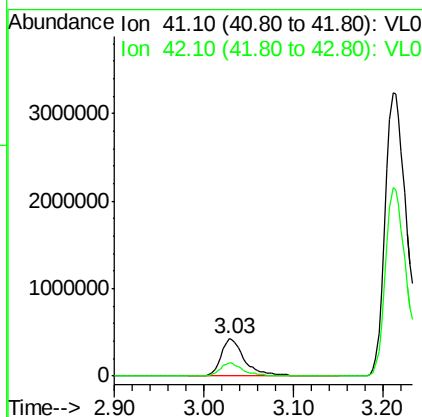
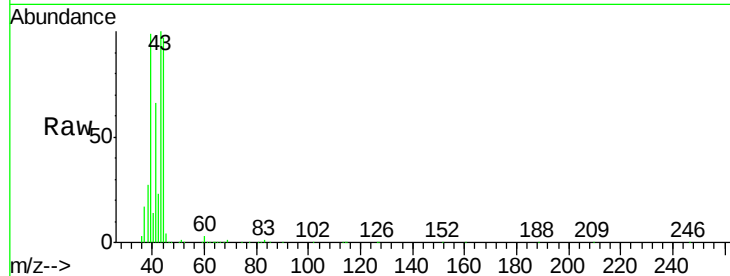
Acq: 2 Jul 2021 13:14

Instrument :
MSVOA_L
ClientSampleId :
1

Tot Ion: 41 Resp: 804000
Ion Ratio Lower Upper
41 100
42 495.6 54.5 81.7#

Manual Integrations
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#11

Trichlorofluoromethane

Concen: 0.679 ppbv

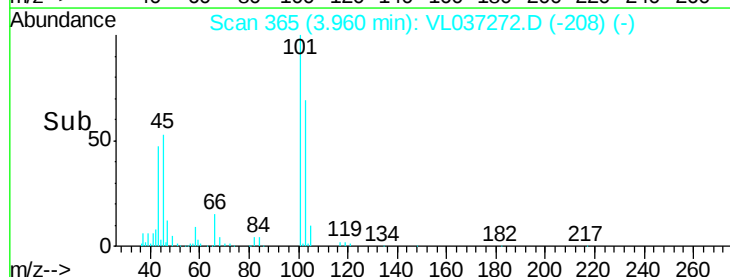
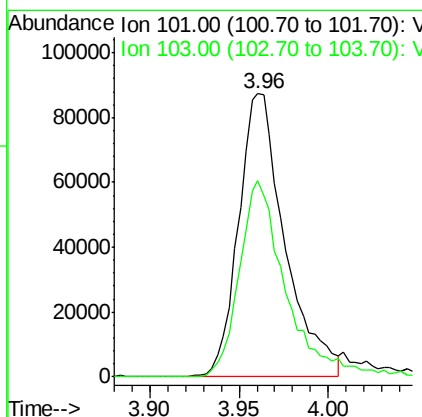
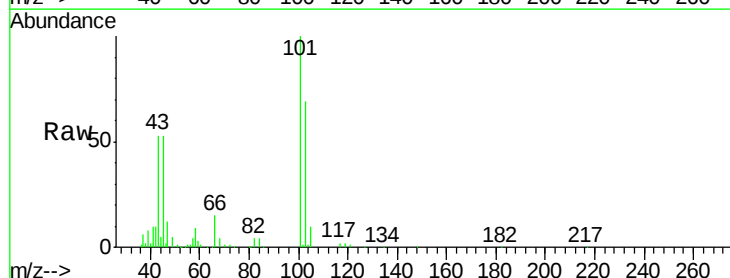
RT: 3.96 min Scan# 365

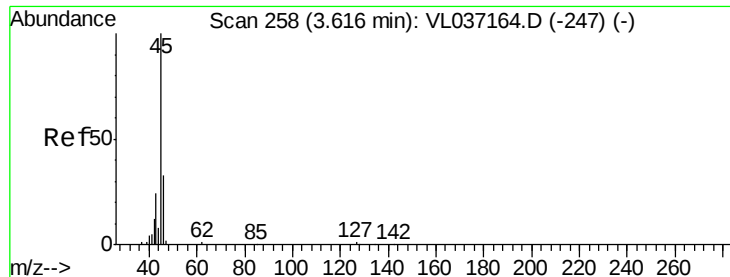
Delta R.T. 0.00 min

Lab File: VL037272.D

Acq: 2 Jul 2021 13:14

Tgt Ion: 101 Resp: 158886
Ion Ratio Lower Upper
101 100
103 69.4 52.2 78.4





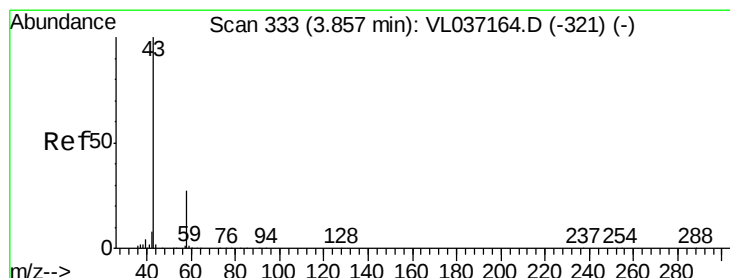
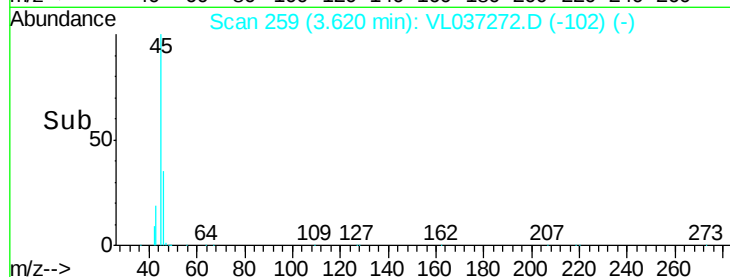
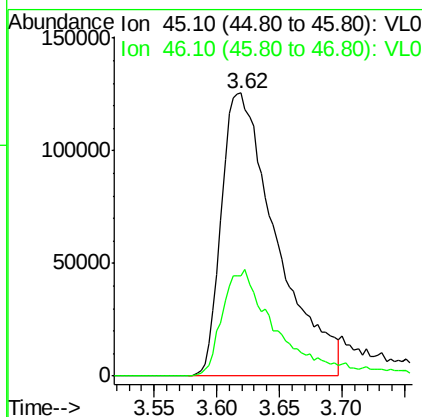
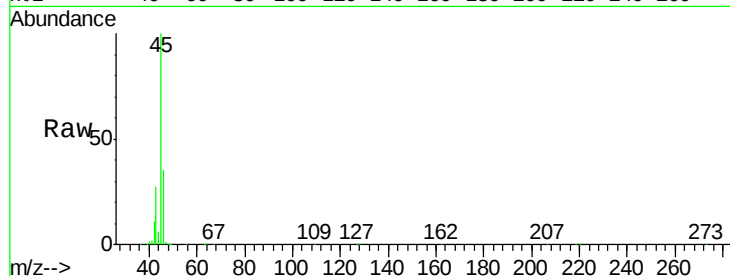
#13
Ethanol
Concen: 31.553 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.00 min
Lab File: VL037272.D
Acq: 2 Jul 2021 13:14

Instrument :
MSVOA_L
ClientSampled :
1

Tot Ion	45	46	Ratio	Lower	Upper
Resp: 382610	100	39.1		34.2	137.0

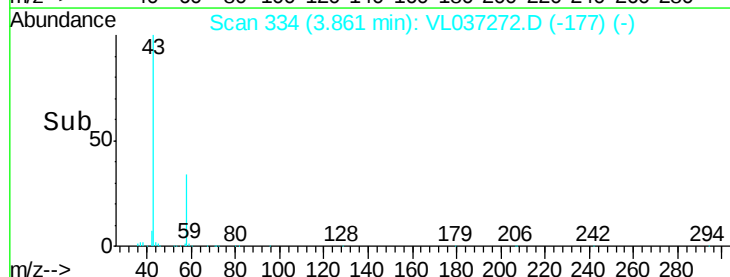
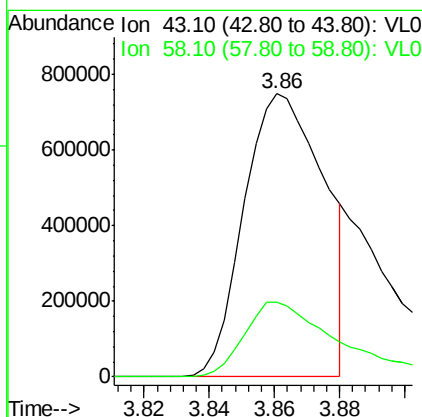
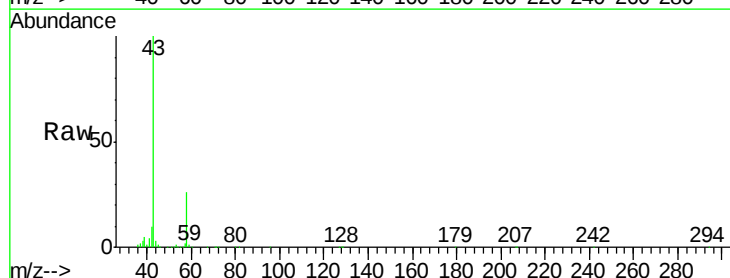
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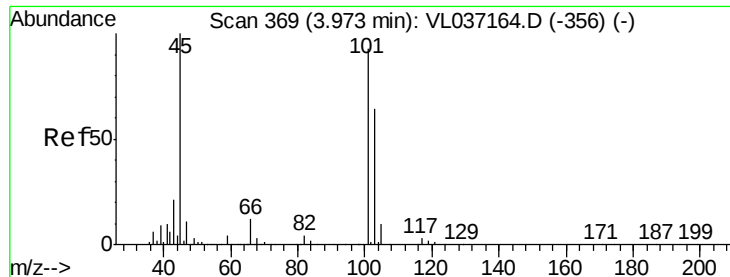
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#15
Acetone
Concen: 8.987 ppbv m
RT: 3.86 min Scan# 334
Delta R.T. 0.00 min
Lab File: VL037272.D
Acq: 2 Jul 2021 13:14

Tgt Ion	43	58	Ratio	Lower	Upper
Resp: 1277823	100	34.4		23.7	35.5





#19

Isopropyl Alcohol

Concen: 11.615 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.01 min

Lab File: VL037272.D

Acq: 2 Jul 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

1

Tot Ion: 45 Resp: 1000213

Ion Ratio Lower Upper

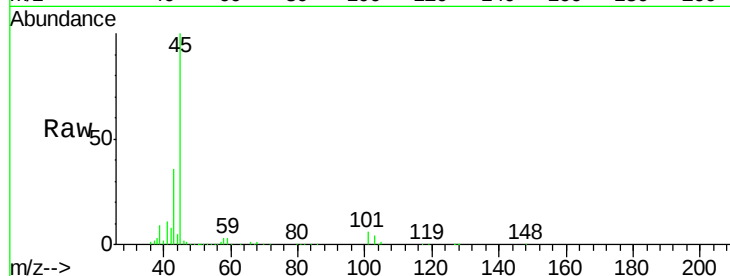
45 100

58 3.9 2.4 3.6#

Manual Integrations
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.98

400000

300000

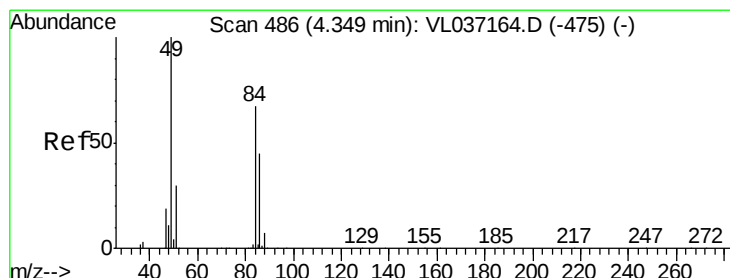
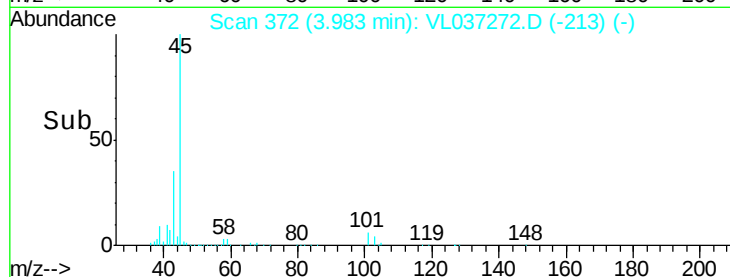
200000

100000

0

Time-->

3.90 3.95 4.00 4.05 4.10



#20

Methylene Chloride

Concen: 5.239 ppbv

RT: 4.36 min Scan# 489

Delta R.T. 0.01 min

Lab File: VL037272.D

Acq: 2 Jul 2021 13:14

Tgt Ion: 84 Resp: 445909

Ion Ratio Lower Upper

84 100

49 153.7 119.7 179.5

51 47.7 36.1 54.1

86 61.2 53.7 80.5

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

500000

400000

300000

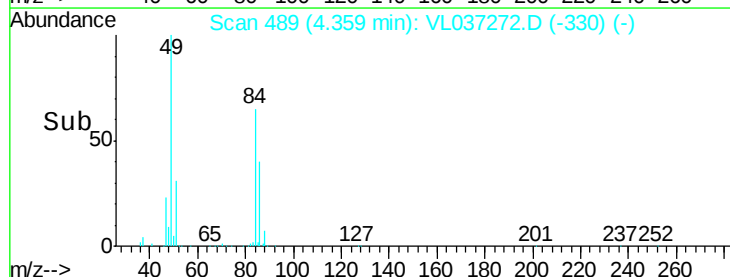
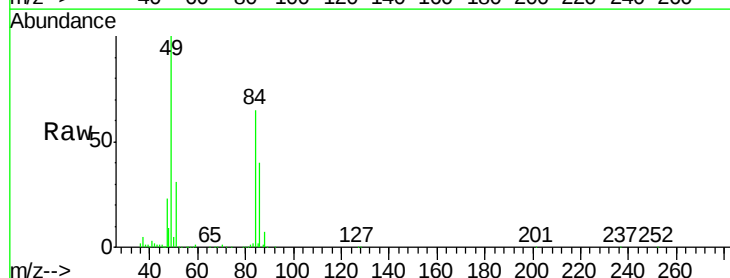
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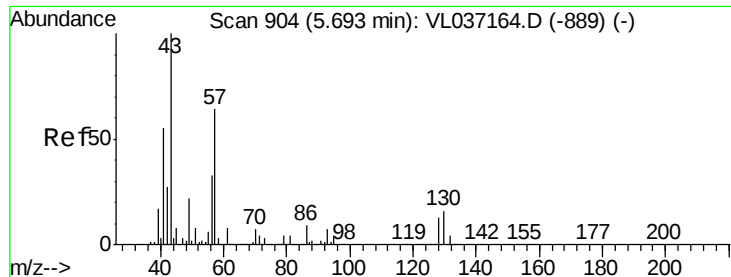
100000

0

Time-->

4.30 4.35 4.40 4.45





#26

Hexane

Concen: 2.849 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.01 min

Lab File: VL037272.D

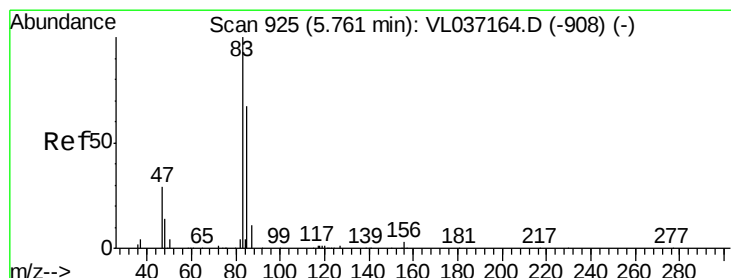
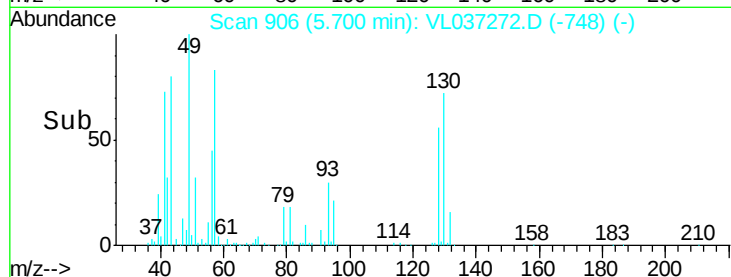
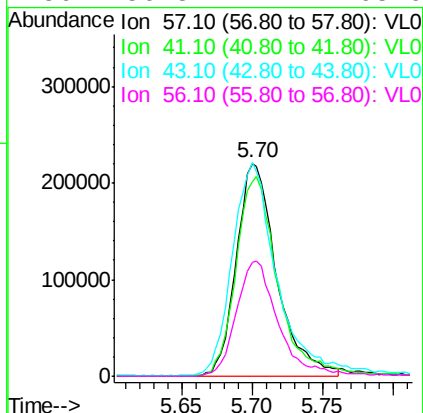
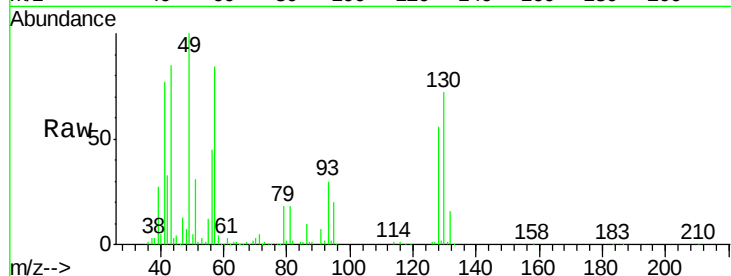
Acq: 2 Jul 2021 13:14

Instrument :
MSVOA_L
ClientSampled :
1

Tot Ion	57	Resp	443161
Ion Ratio	Lower	Upper	
57	100		
41	97.8	73.5	110.3
43	112.4	170.7	256.1#
56	56.8	42.4	63.6

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#29

Chloroform

Concen: 0.284 ppbv m

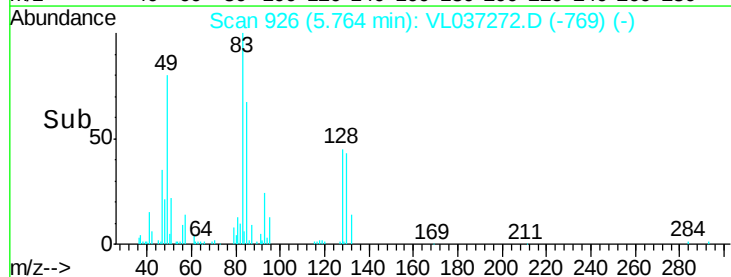
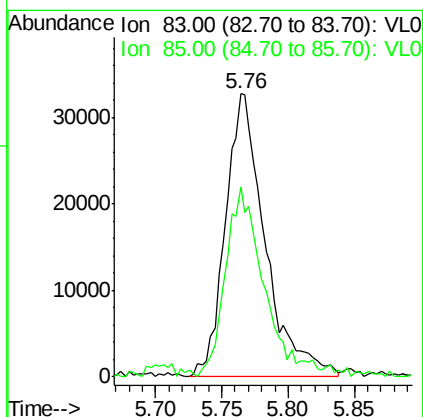
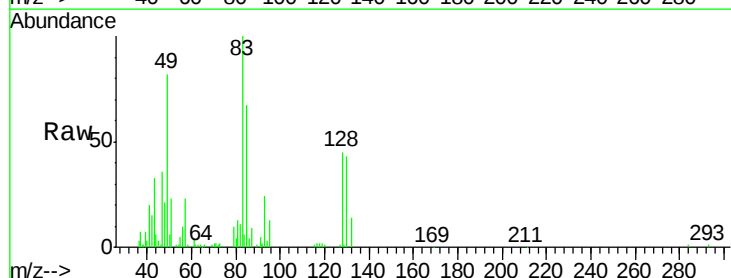
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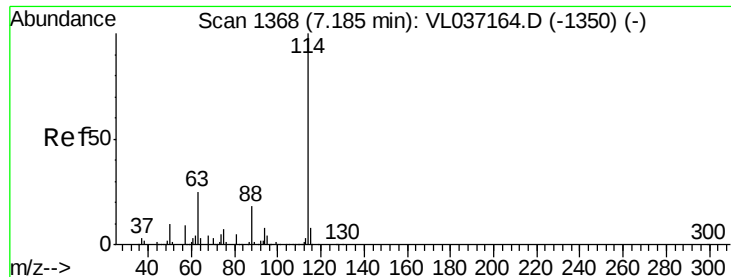
Delta R.T. 0.00 min

Lab File: VL037272.D

Acq: 2 Jul 2021 13:14

Tgt Ion	83	Resp	68315
Ion Ratio	Lower	Upper	
83	100		
85	67.1	53.6	80.4





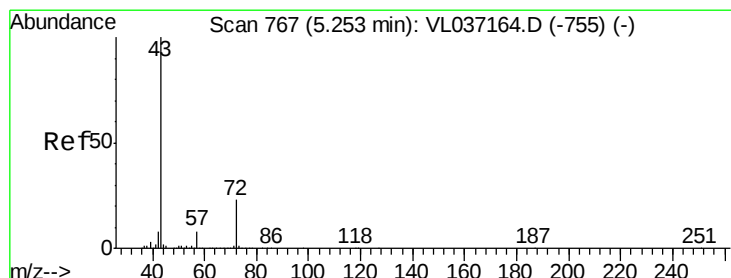
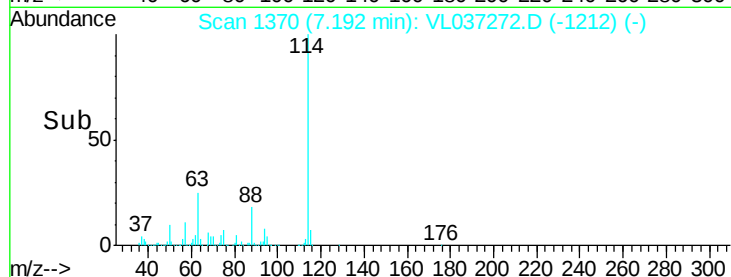
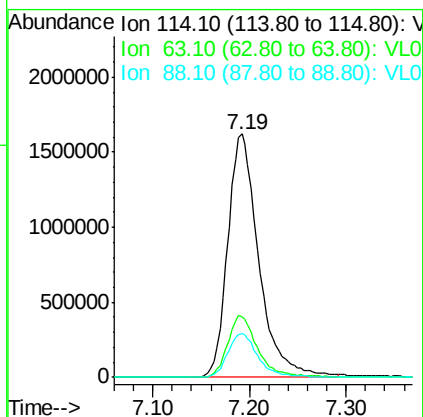
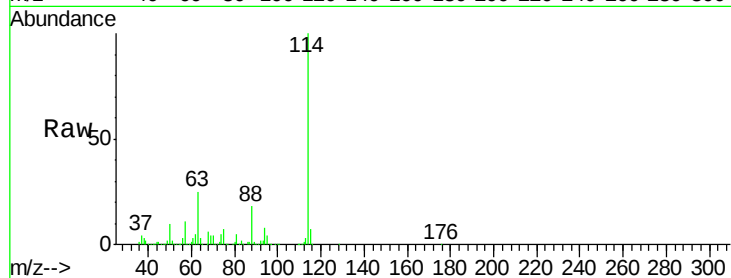
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. 0.01 min
 Lab File: VL037272.D
 Acq: 2 Jul 2021 13:14

Instrument :
 MSVOA_L
 ClientSampleId :
 1

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.1	19.6	29.4
88	18.1	14.2	21.2

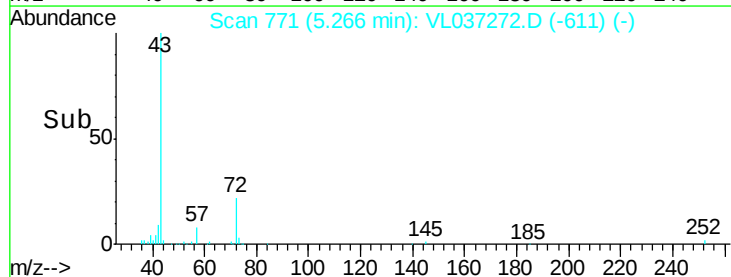
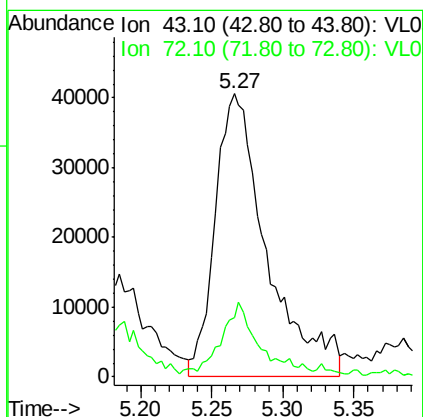
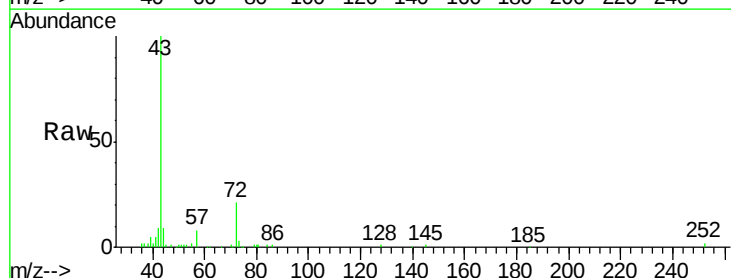
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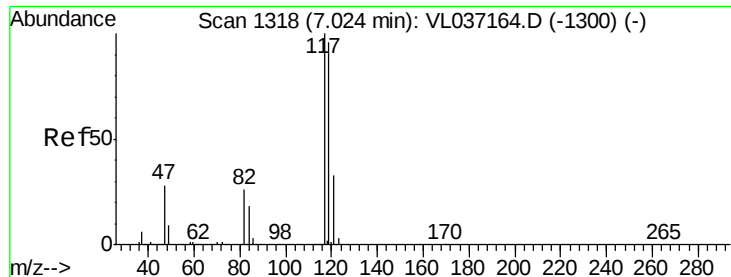
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#34
 2-Butanone
 Concen: 0.728 ppbv m
 RT: 5.27 min Scan# 771
 Delta R.T. 0.01 min
 Lab File: VL037272.D
 Acq: 2 Jul 2021 13:14

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.5	18.9	28.3





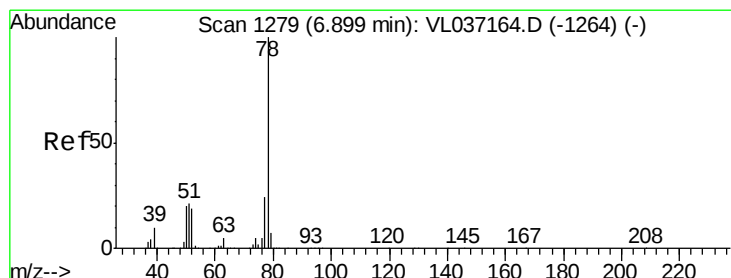
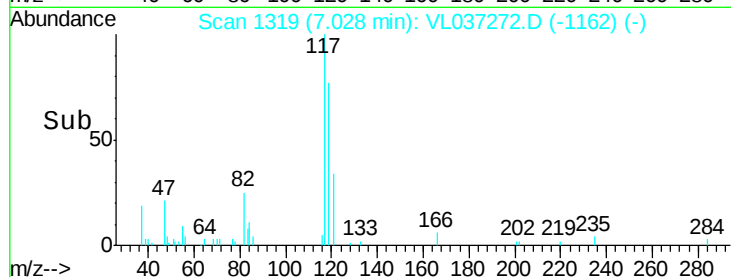
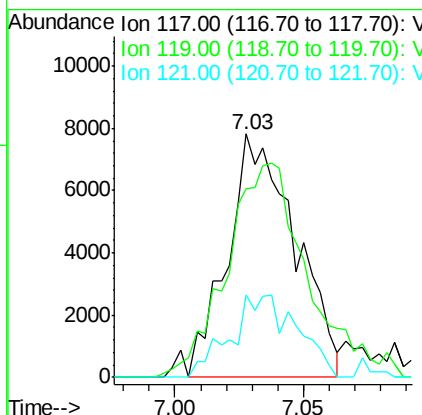
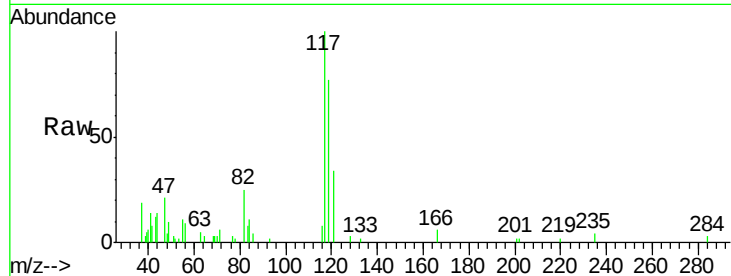
#35
Carbon Tetrachloride
Concen: 0.059 ppbv m
RT: 7.03 min Scan# 1319
Delta R.T. 0.00 min
Lab File: VL037272.D
Acq: 2 Jul 2021 13:14

Instrument :
MSVOA_L
ClientSampled :
1

Tot Ion	Ratio	Lower	Upper
117	100		
119	77.3	76.6	114.8
121	33.9	26.4	39.6

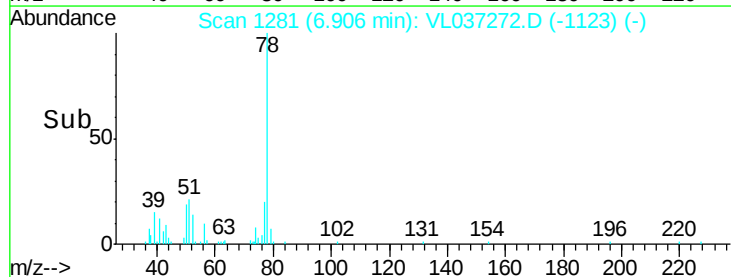
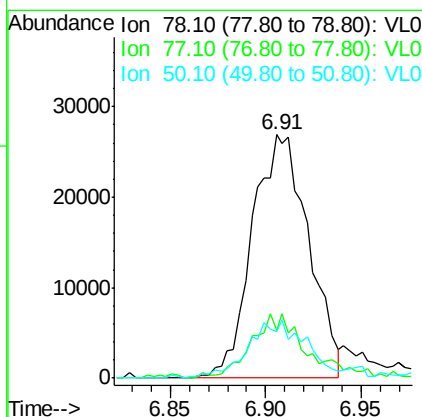
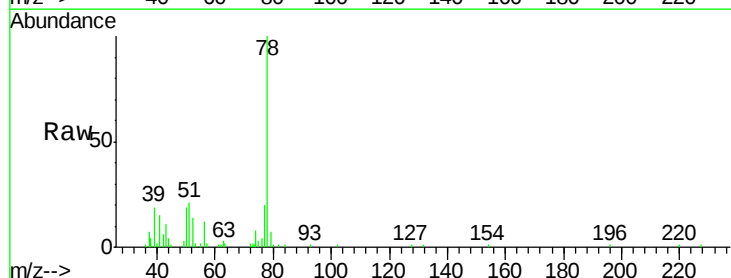
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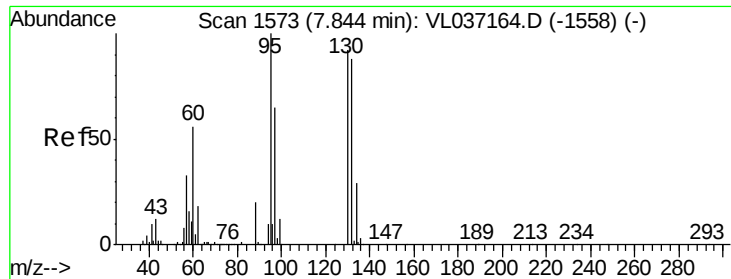
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#36
Benzene
Concen: 0.189 ppbv m
RT: 6.91 min Scan# 1281
Delta R.T. 0.01 min
Lab File: VL037272.D
Acq: 2 Jul 2021 13:14

Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.7	19.0	28.6
50	18.9	15.7	23.5





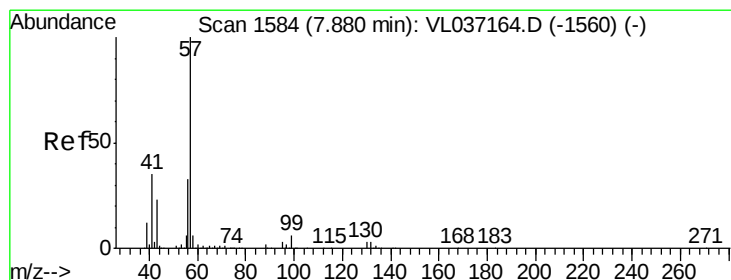
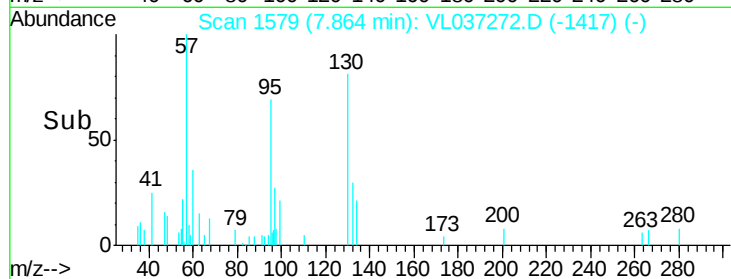
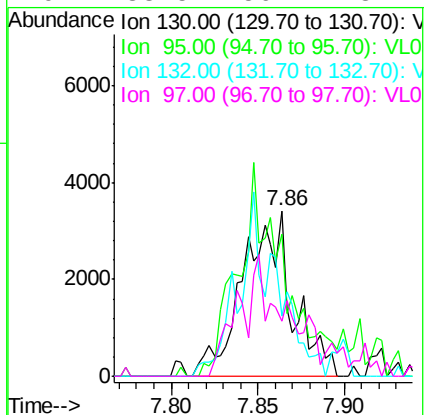
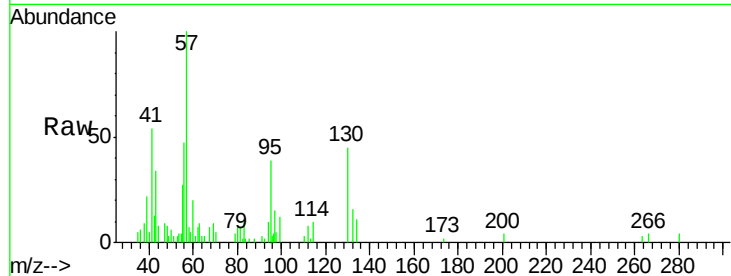
#38
 Trichloroethene
 Concen: 0.048 ppbv m
 RT: 7.86 min Scan# 1579
 Delta R.T. 0.02 min
 Lab File: VL037272.D
 Acq: 2 Jul 2021 13:14

Instrument :
 MSVOA_L
 ClientSampled :
 1

Tot Ion	Ratio	Lower	Upper
130	100		
95	85.6	86.6	129.8#
132	36.6	76.6	114.8#
97	33.5	56.1	84.1#

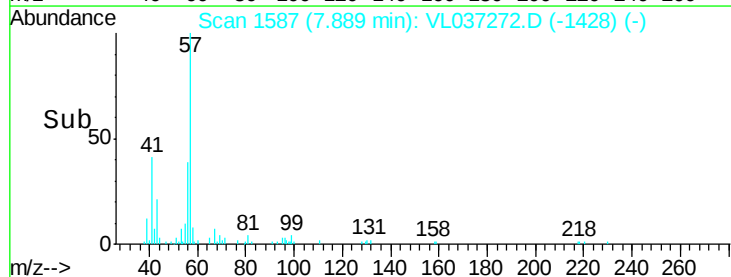
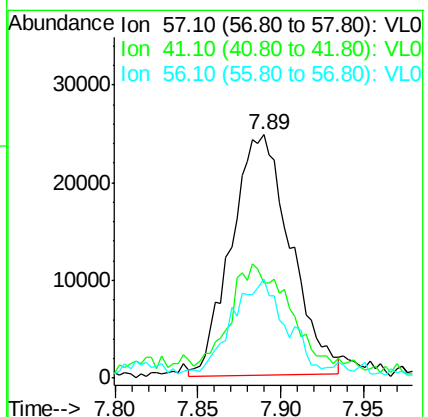
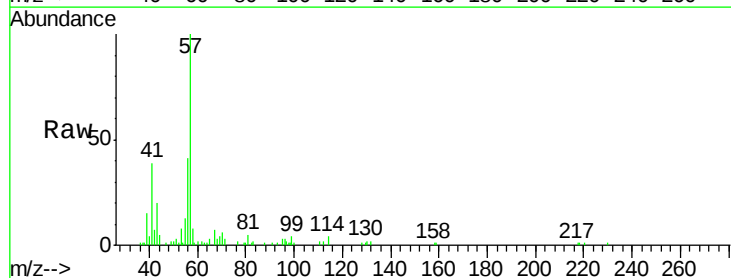
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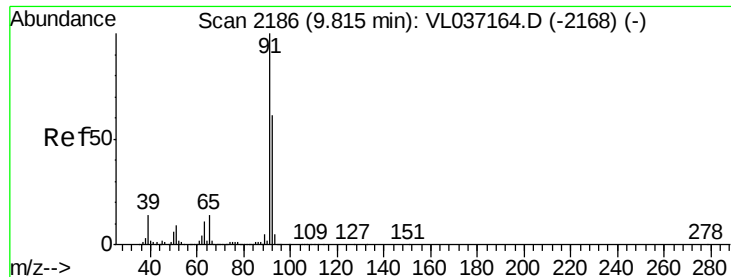
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#44
 2,2,4-Trimethylpentane
 Concen: 0.124 ppbv
 RT: 7.89 min Scan# 1587
 Delta R.T. 0.01 min
 Lab File: VL037272.D
 Acq: 2 Jul 2021 13:14

Tgt Ion	Ratio	Lower	Upper
57	100		
41	53.0	27.6	41.4#
56	44.6	25.3	37.9#





#53

Toluene

Concen: 2.384 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. 0.01 min

Lab File: VL037272.D

Acq: 2 Jul 2021 13:14

Instrument :

MSVOA_L

ClientSampled :

1

Tot Ion: 91 Resp: 833695

Ion Ratio Lower Upper

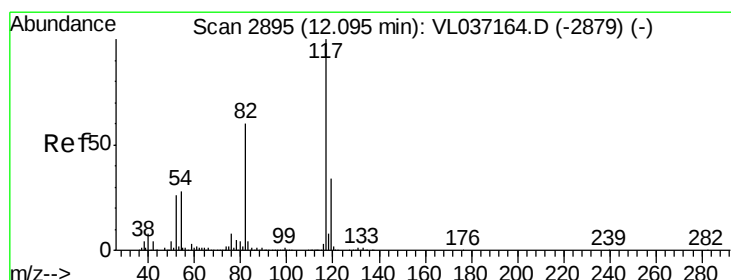
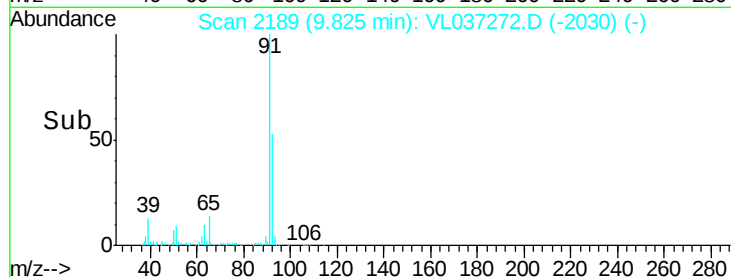
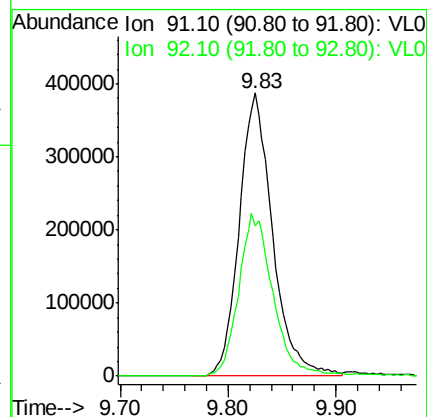
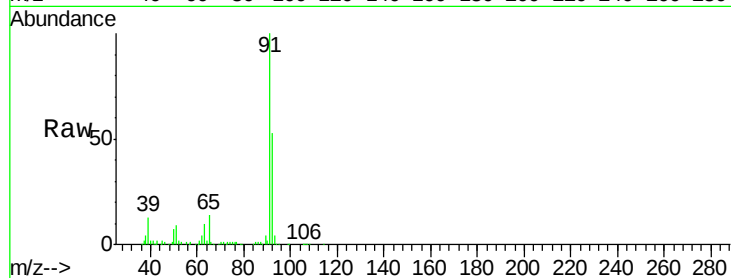
91 100

92 59.9 48.3 72.5

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2898

Delta R.T. 0.01 min

Lab File: VL037272.D

Acq: 2 Jul 2021 13:14

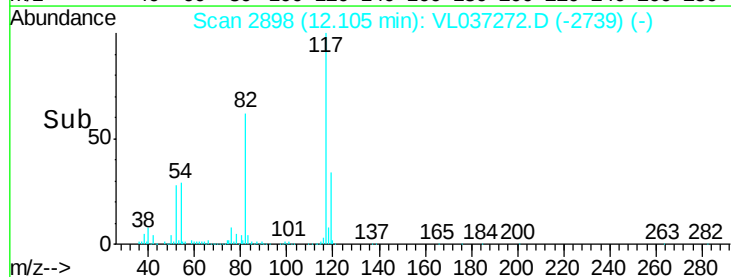
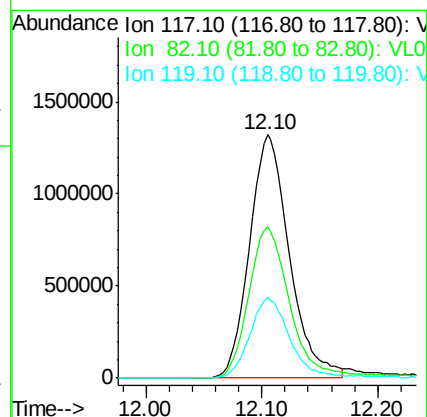
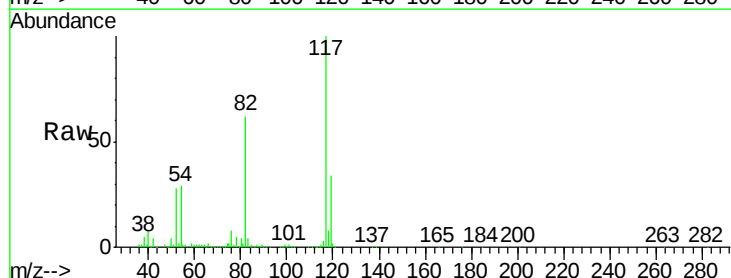
Tgt Ion: 117 Resp: 3158514

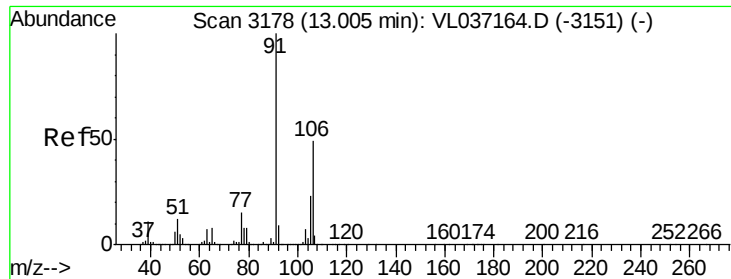
Ion Ratio Lower Upper

117 100

82 66.1 51.7 77.5

119 34.0 47.6 71.4#





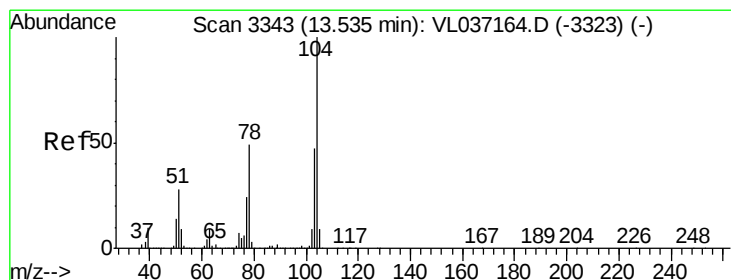
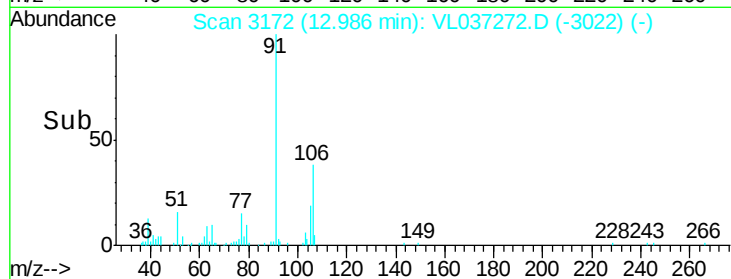
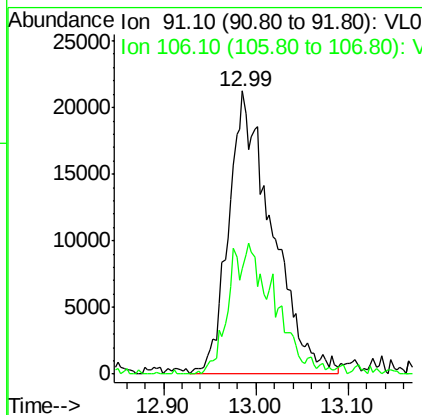
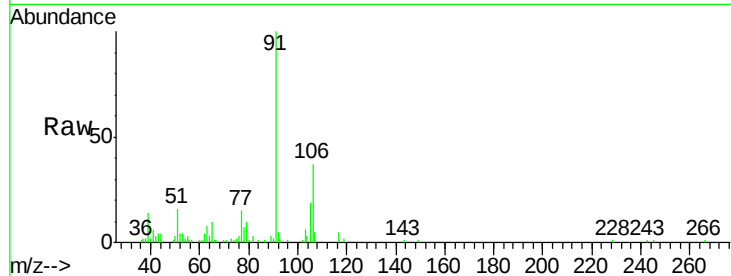
#59
m/p-Xylene
Concen: 0.189 ppbv m
RT: 12.99 min Scan# 3172
Delta R.T. -0.02 min
Lab File: VL037272.D
Acq: 2 Jul 2021 13:14

Instrument :
MSVOA_L
ClientSampled :
1

Tot Ion: 91 Resp: 69737
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.4#

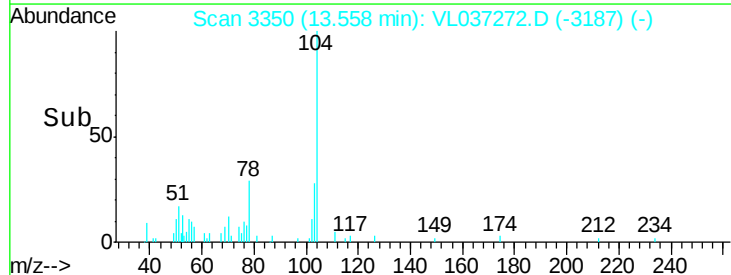
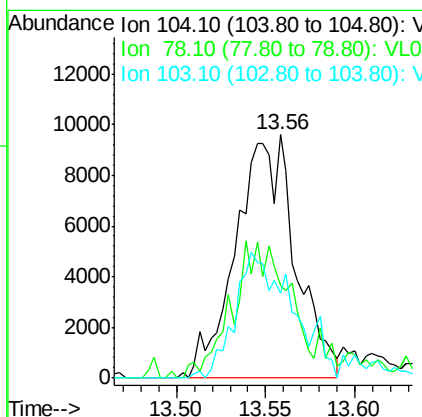
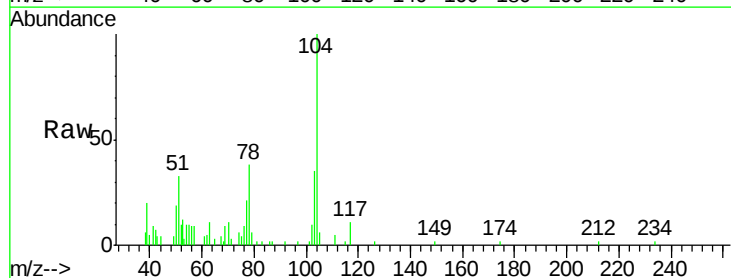
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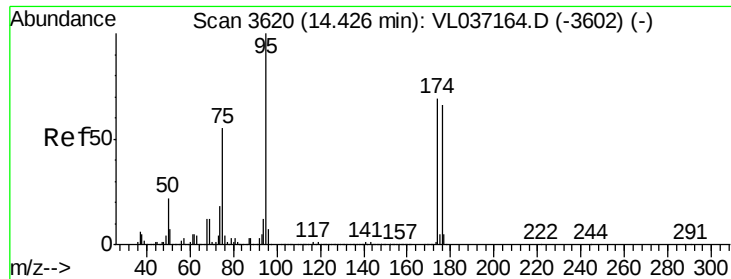
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#61
Styrene
Concen: 0.122 ppbv m
RT: 13.56 min Scan# 3350
Delta R.T. 0.02 min
Lab File: VL037272.D
Acq: 2 Jul 2021 13:14

Tgt Ion:104 Resp: 22144
Ion Ratio Lower Upper
104 100
78 65.2 39.7 59.5#
103 56.2 37.6 56.4





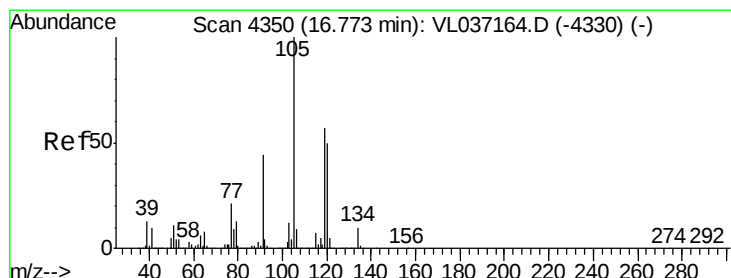
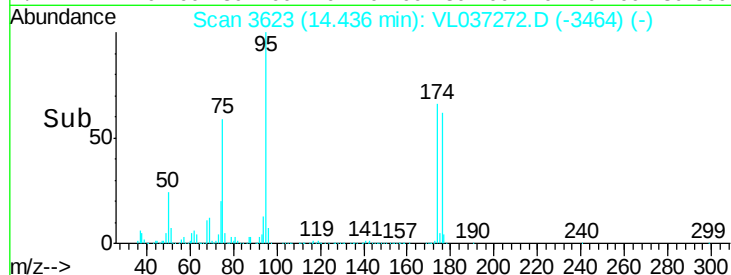
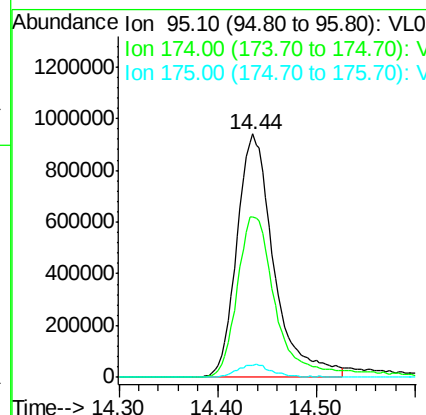
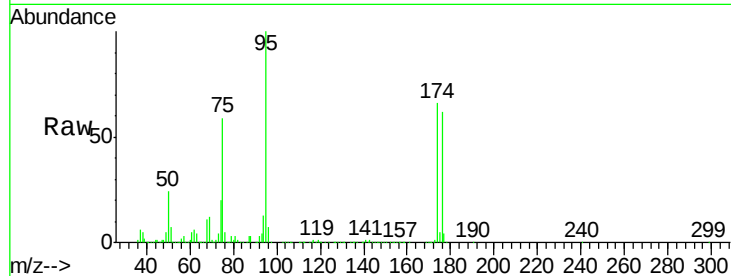
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.267 ppbv
 RT: 14.44 min Scan# 3623
 Delta R.T. 0.01 min
 Lab File: VL037272.D
 Acq: 2 Jul 2021 13:14

Instrument :
 MSVOA_L
 ClientSampled :
 1

Tot Ion: 95 Resp: 2457239
 Ion Ratio Lower Upper
 95 100
 174 71.9 57.0 85.4
 175 5.2 4.4 6.6

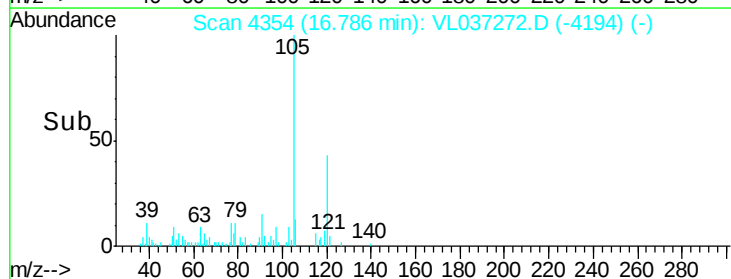
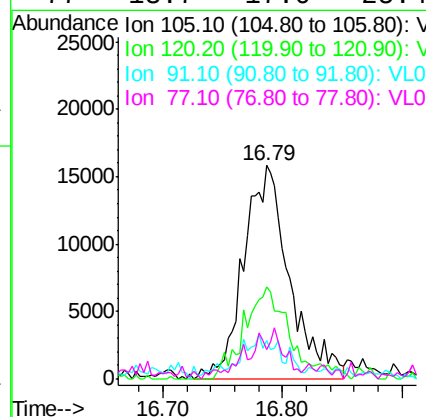
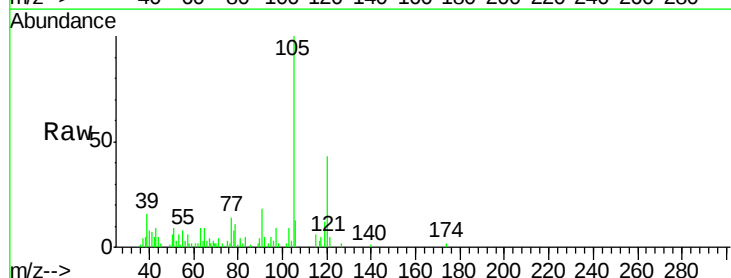
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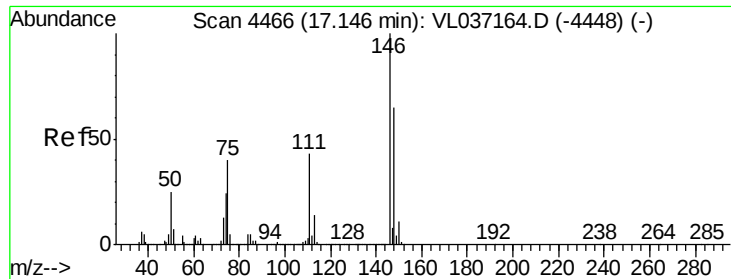
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.106 ppbv m
 RT: 16.79 min Scan# 4354
 Delta R.T. 0.01 min
 Lab File: VL037272.D
 Acq: 2 Jul 2021 13:14

Tgt Ion: 105 Resp: 42089
 Ion Ratio Lower Upper
 105 100
 120 43.0 39.8 59.8
 91 18.2 37.0 55.4#
 77 13.7 17.0 25.4#





#76
 1,4-Dichlorobenzene
 Concen: 1.668 ppbv m
 RT: 17.16 min Scan# 4471
 Delta R.T. 0.02 min
 Lab File: VL037272.D
 Acq: 2 Jul 2021 13:14

Instrument :
 MSVOA_L
 ClientSampleId :
 1

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.7	68.0
148	64.0	33.7	101.1

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