

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL070221\
 Data File : VL037273.D
 Acq On : 2 Jul 2021 13:55
 Operator : SY/AP
 Sample : M2911-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1DUP

Manual Integrations
 APPROVED

MMDadoda
 7/6/2021 6:44:33 PM

Quant Time: Jul 12 09:05:27 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	1193047	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3453158	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	3008188	10.00	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2312615	10.15	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	57593	0.278 ppbv	92
3) Chlorodifluoromethane	3.00	51	108652m	0.468 ppbv	
4) Chloromethane	3.15	50	40090	0.519 ppbv	91
9) Propene	3.03	41	761859m	10.271 ppbv	
11) Trichlorofluoromethane	3.96	101	161407	0.729 ppbv	91
13) Ethanol	3.62	45	391523	34.122 ppbv	49
15) Acetone	3.86	43	1314736m	9.772 ppbv	
19) Isopropyl Alcohol	3.98	45	1054233	12.937 ppbv	98
20) Methylene Chloride	4.36	84	619067	7.686 ppbv	94
26) Hexane	5.70	57	488591	3.319 ppbv #	58
29) Chloroform	5.76	83	64942	0.286 ppbv #	83
34) 2-Butanone	5.27	43	83172	0.619 ppbv #	88
35) Carbon Tetrachloride	7.03	117	13474m	0.058 ppbv	
36) Benzene	6.91	78	59563	0.213 ppbv	95
38) Trichloroethene	7.85	130	6530m	0.049 ppbv	
44) 2,2,4-Trimethylpentane	7.89	57	62480	0.133 ppbv #	73
53) Toluene	9.83	91	825545	2.475 ppbv	100
59) m/p-Xylene	12.99	91	71632m	0.204 ppbv	
61) Styrene	13.55	104	23349m	0.135 ppbv	
74) 1,2,4-Trimethylbenzene	16.79	105	41225m	0.109 ppbv	
76) 1,4-Dichlorobenzene	17.16	146	401113m	1.747 ppbv	

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

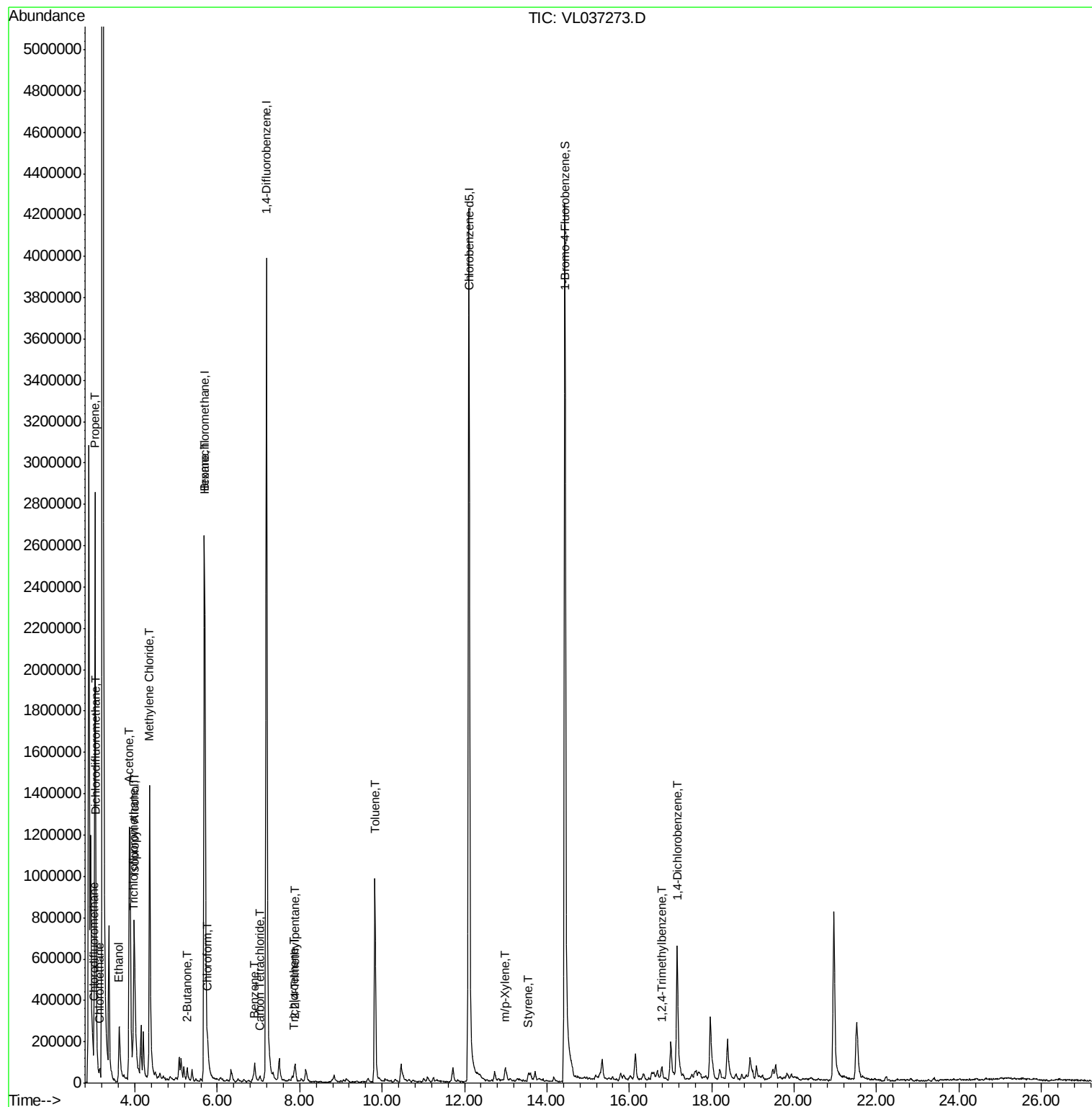
Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL070221\
Data File : VL037273.D
Acq On : 2 Jul 2021 13:55
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Sample : M2911-01DUP
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

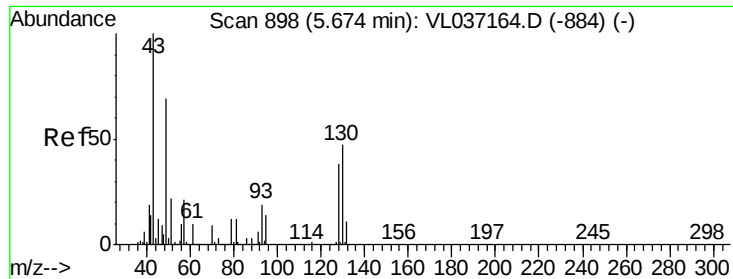
Instrument :
MSVOA_L
ClientSampled :
1DUP

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Quant Time: Jul 12 09:05:27 2021
Quant Method : Z:\VOASRV\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: VL037273.D

Acq: 2 Jul 2021 13:55

Instrument :

MSVOA_L

ClientSampled :

1DUP

Tot Ion: 49 Resp: 1193047

Ion Ratio Lower Upper

49 100

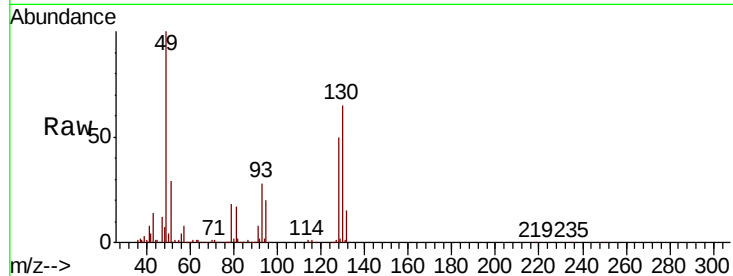
128 55.3 29.3 88.0

130 71.4 35.9 107.8

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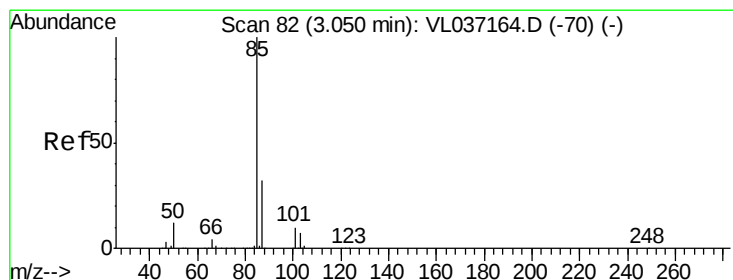
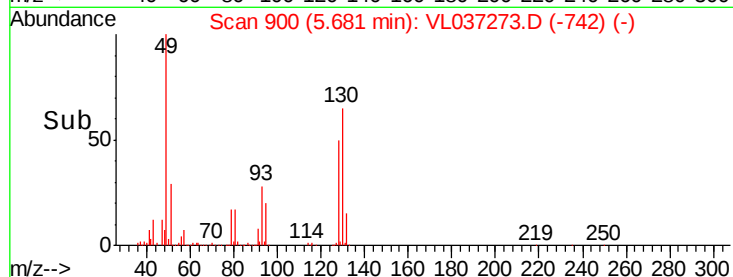
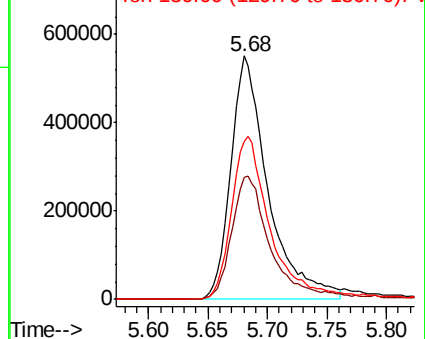
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.278 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL037273.D

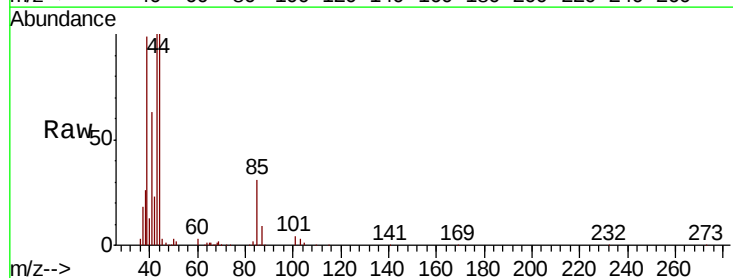
Acq: 2 Jul 2021 13:55

Tgt Ion: 85 Resp: 57593

Ion Ratio Lower Upper

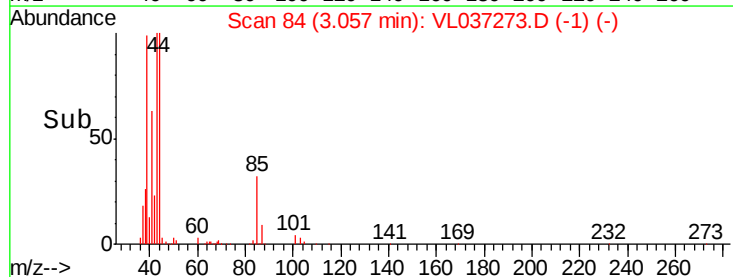
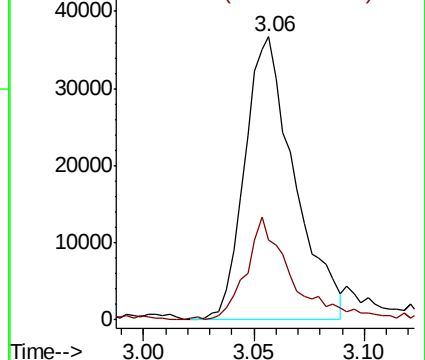
85 100

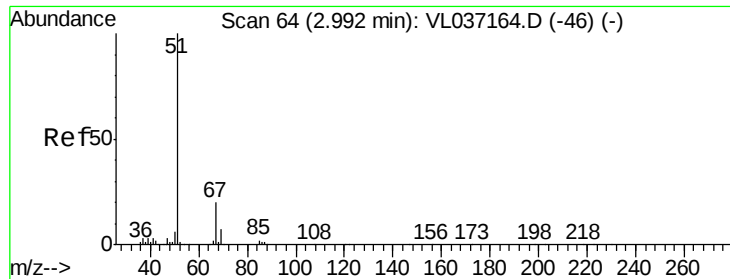
87 27.7 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.468 ppbv m

RT: 3.00 min Scan# 65

Delta R.T. 0.00 min

Lab File: VL037273.D

Acq: 2 Jul 2021 13:55

Instrument :

MSVOA_L

ClientSampleId :

1DUP

Tot Ion: 51 Resp: 108652

Ion Ratio Lower Upper

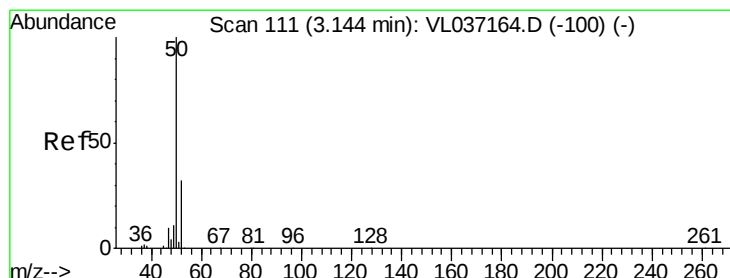
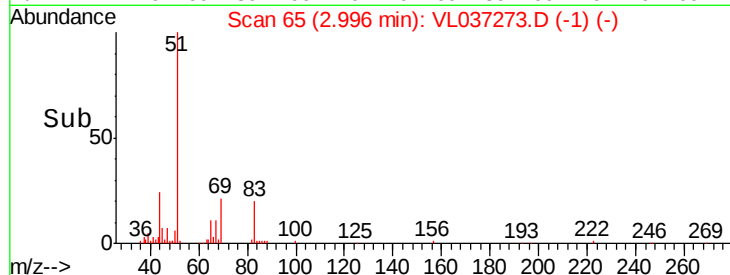
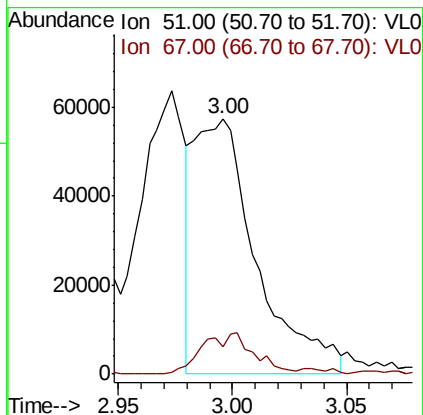
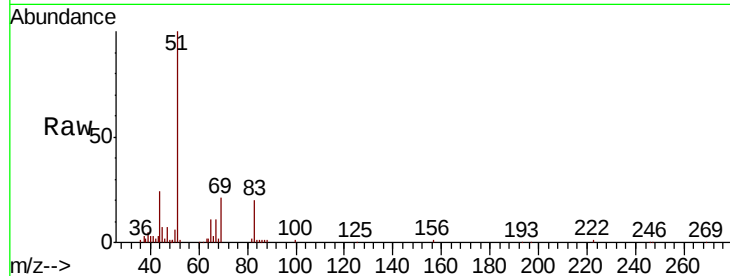
51 100

67 14.7 15.8 23.6#

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#4

Chloromethane

Concen: 0.519 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL037273.D

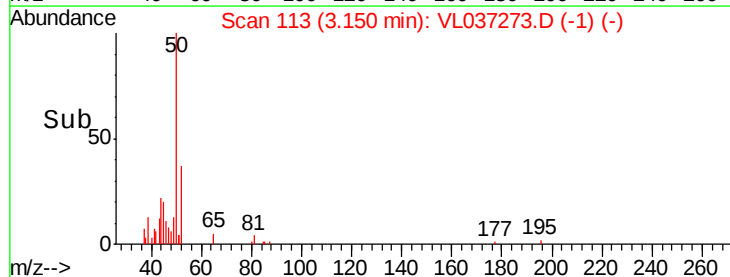
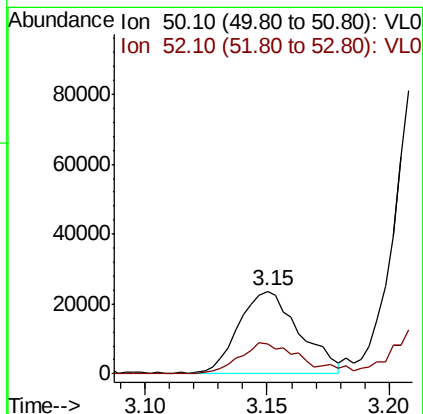
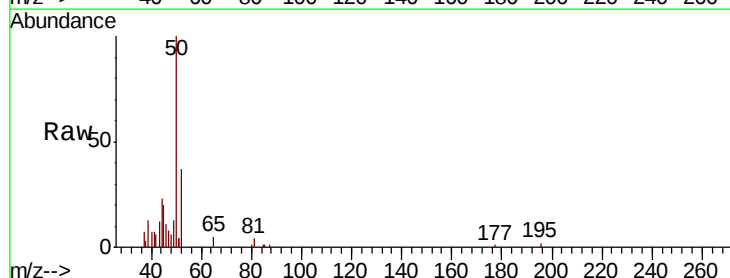
Acq: 2 Jul 2021 13:55

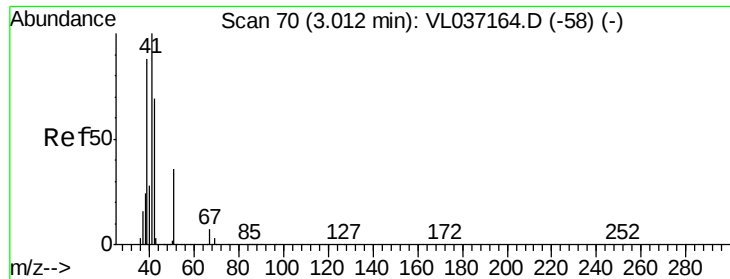
Tgt Ion: 50 Resp: 40090

Ion Ratio Lower Upper

50 100

52 37.2 25.8 38.8





#9

Propene

Concen: 10.271 ppbv m

RT: 3.03 min Scan# 76

Delta R.T. 0.02 min

Lab File: VL037273.D

Acq: 2 Jul 2021 13:55

Instrument :

MSVOA_L

ClientSampleId :

1DUP

Tot Ion: 41 Resp: 761859

Ion Ratio Lower Upper

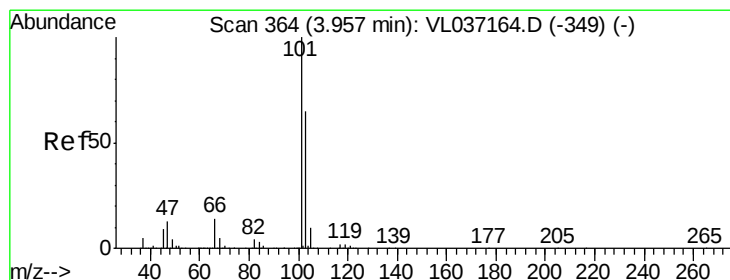
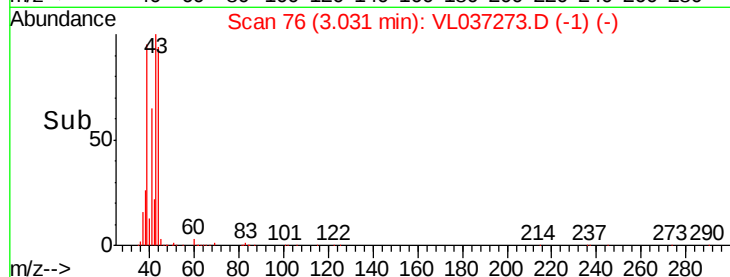
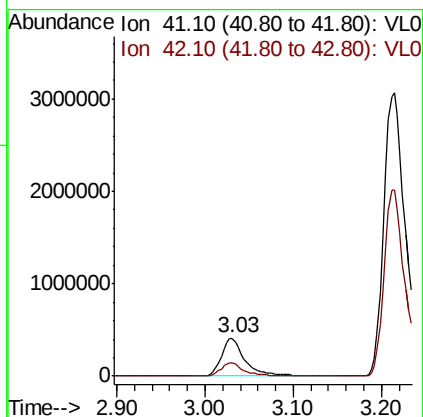
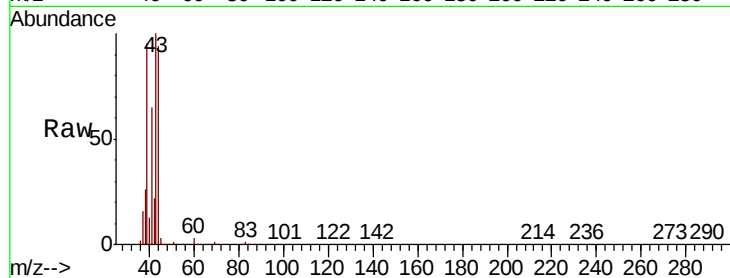
41 100

42 482.6 54.5 81.7#

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#11

Trichlorofluoromethane

Concen: 0.729 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.00 min

Lab File: VL037273.D

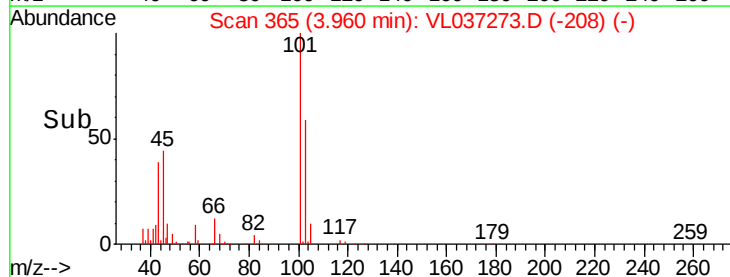
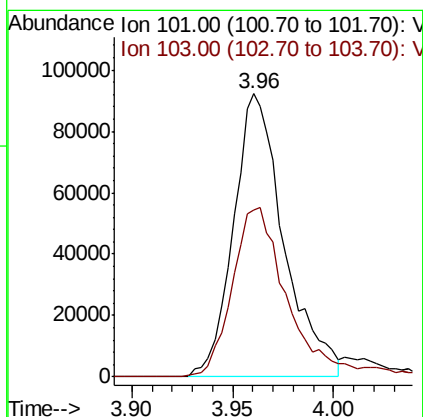
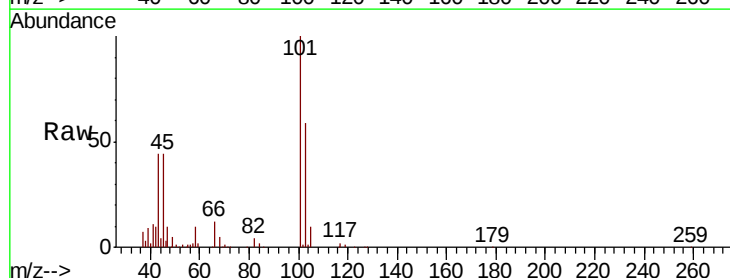
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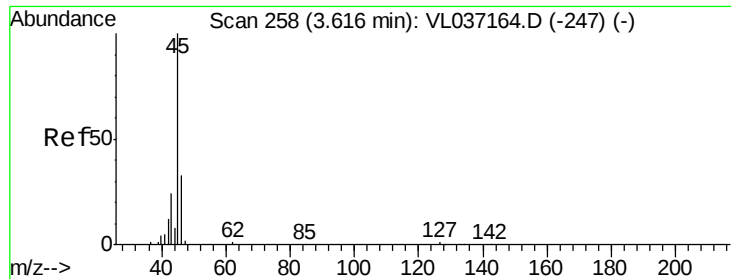
Tgt Ion: 101 Resp: 161407

Ion Ratio Lower Upper

101 100

103 58.3 52.2 78.4





#13

Ethanol

Concen: 34.122 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.00 min

Lab File: VL037273.D

Acq: 2 Jul 2021 13:55

Instrument :

MSVOA_L

ClientSampleId :

1DUP

Tot Ion: 45 Resp: 391523

Ion Ratio Lower Upper

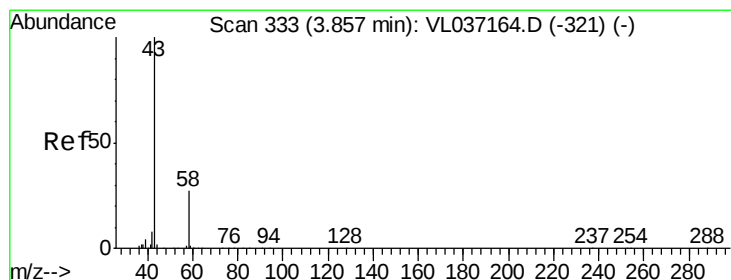
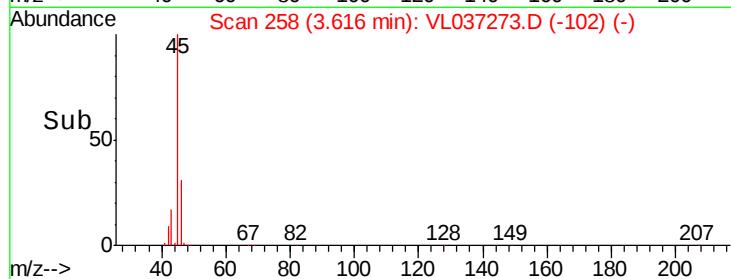
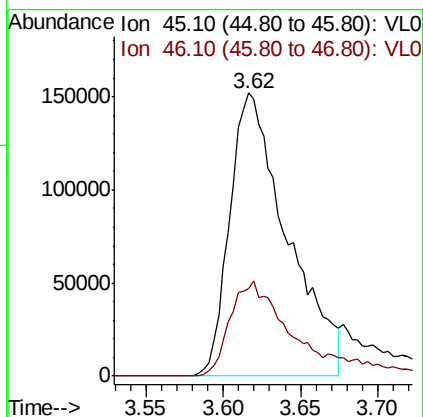
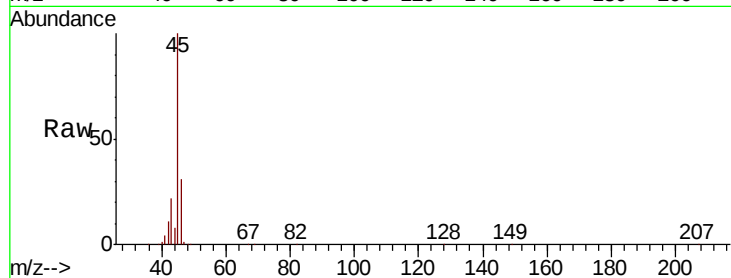
45 100

46 39.0 34.2 137.0

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#15

Acetone

Concen: 9.772 ppbv m

RT: 3.86 min Scan# 334

Delta R.T. 0.00 min

Lab File: VL037273.D

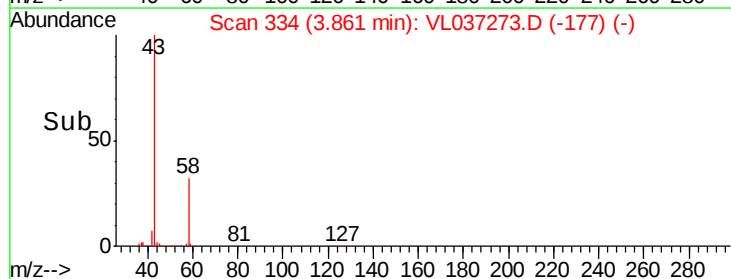
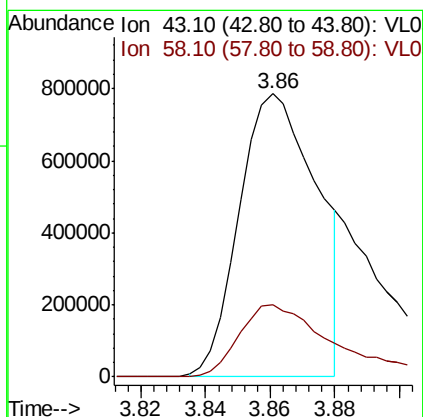
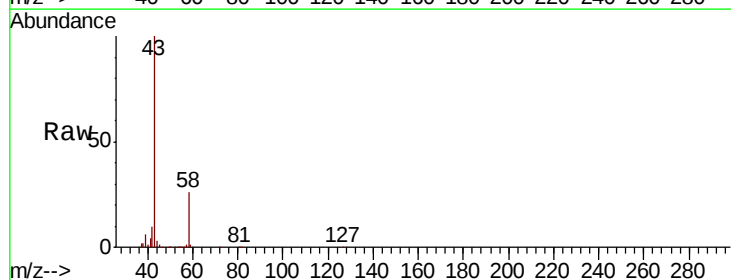
Acq: 2 Jul 2021 13:55

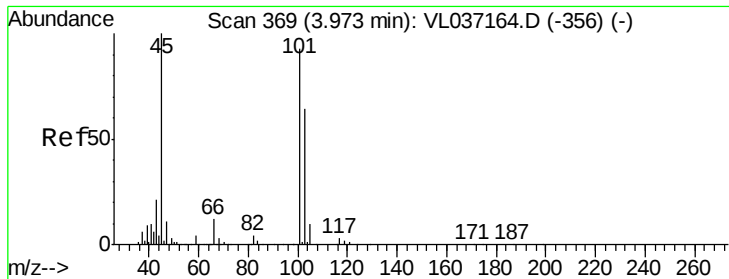
Tgt Ion: 43 Resp: 1314736

Ion Ratio Lower Upper

43 100

58 34.0 23.7 35.5





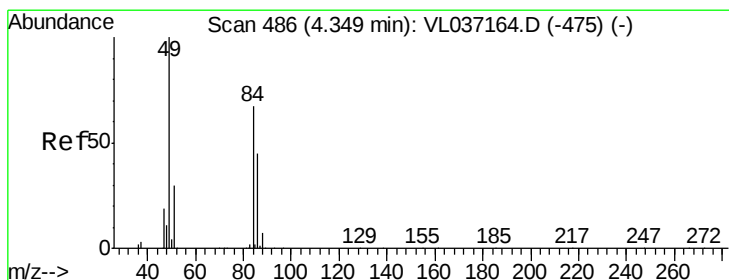
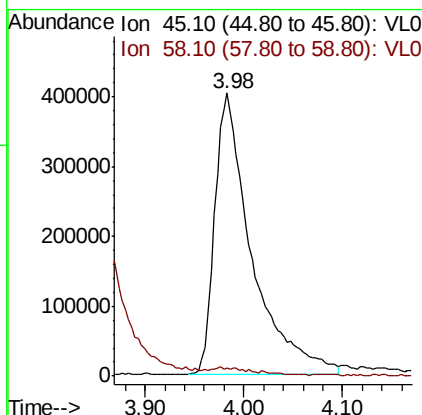
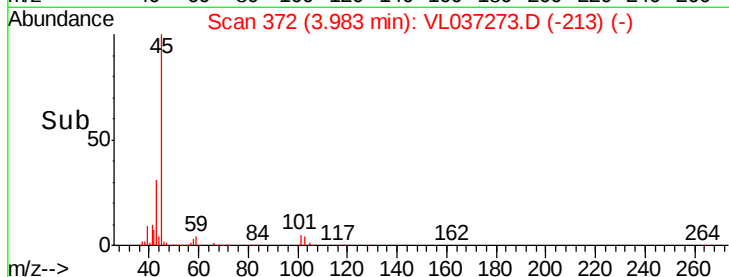
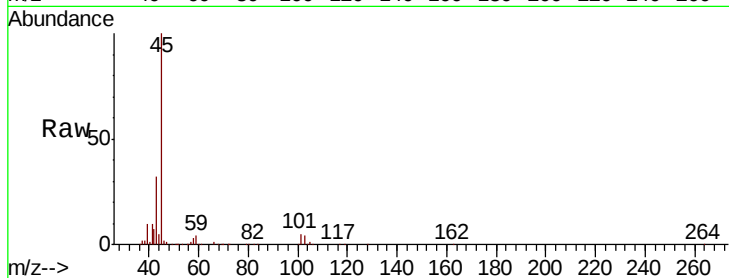
#19
Isopropyl Alcohol
Concen: 12.937 ppbv
RT: 3.98 min Scan# 372
Delta R.T. 0.01 min
Lab File: VL037273.D
Acq: 2 Jul 2021 13:55

Instrument :
MSVOA_L
ClientSampleId :
1DUP

Tot Ion: 45 Resp: 1054233
Ion Ratio Lower Upper
45 100
58 3.6 2.4 3.6

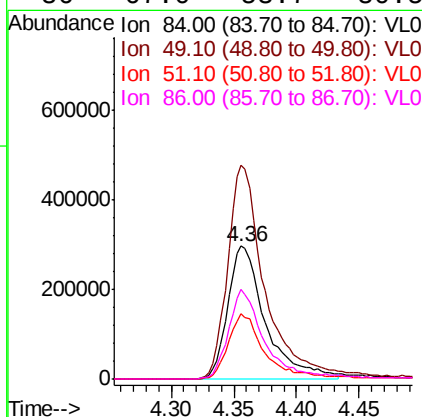
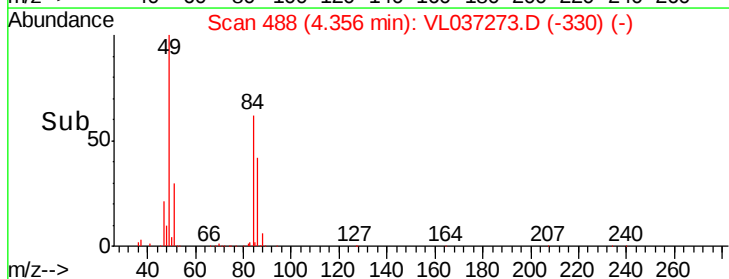
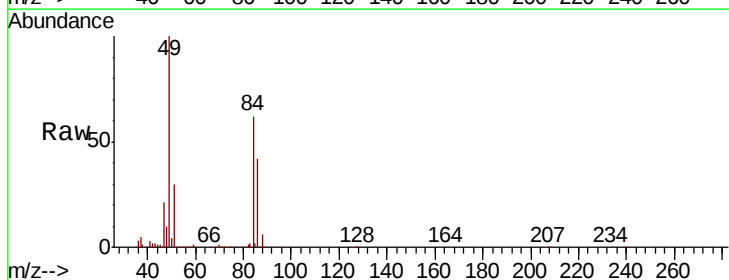
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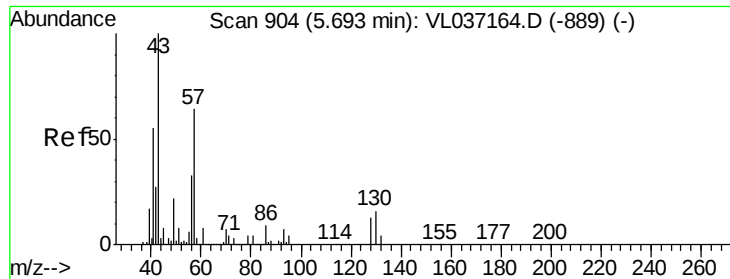
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#20
Methylene Chloride
Concen: 7.686 ppbv
RT: 4.36 min Scan# 488
Delta R.T. 0.01 min
Lab File: VL037273.D
Acq: 2 Jul 2021 13:55

Tgt Ion: 84 Resp: 619067
Ion Ratio Lower Upper
84 100
49 160.7 119.7 179.5
51 48.6 36.1 54.1
86 67.0 53.7 80.5





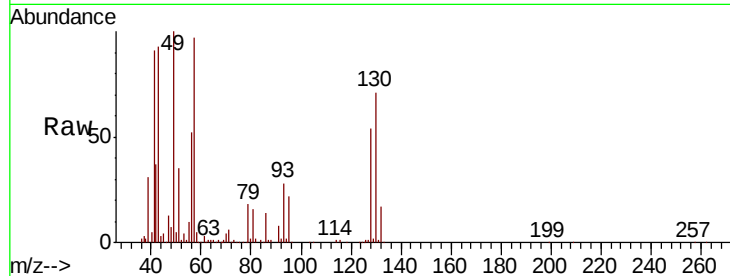
#26
Hexane
Concen: 3.319 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.01 min
Lab File: VL037273.D
Acq: 2 Jul 2021 13:55

Instrument :
MSVOA_L
ClientSampleId :
1DUP

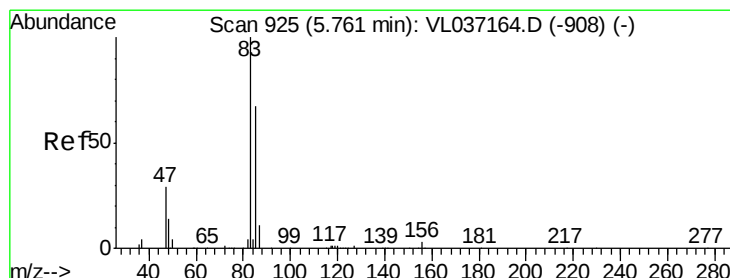
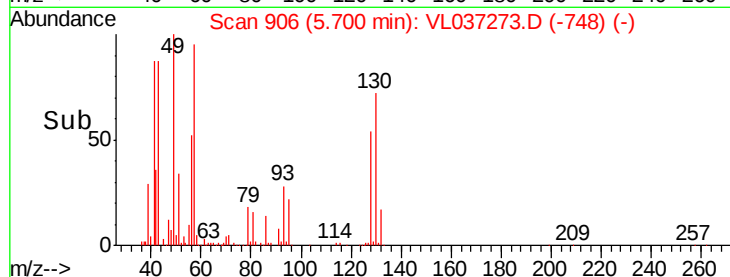
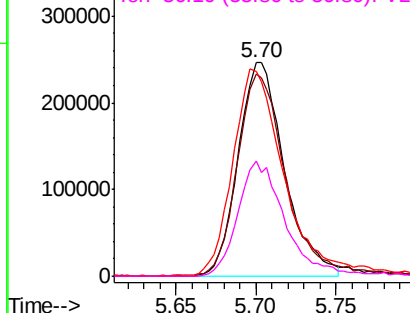
Tot Ion	Ratio	Lower	Upper
57	100		
41	100.9	73.5	110.3
43	109.8	170.7	256.1#
56	56.0	42.4	63.6

Manual Integrations
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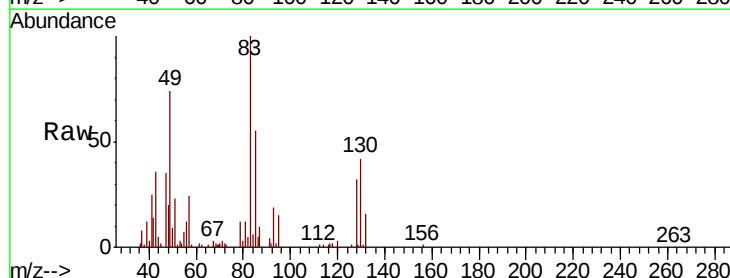


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

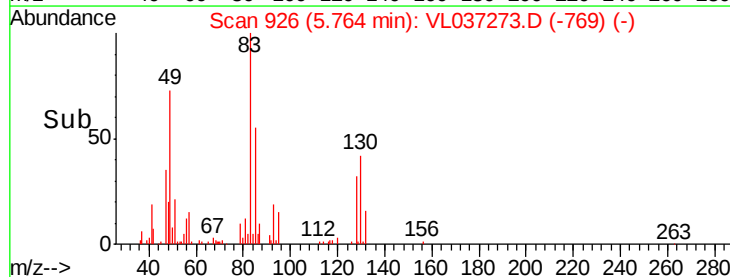
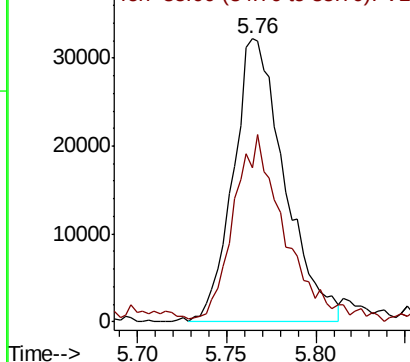


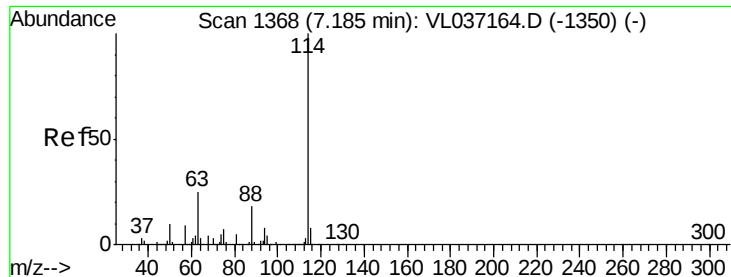
#29
Chloroform
Concen: 0.286 ppbv
RT: 5.76 min Scan# 926
Delta R.T. 0.00 min
Lab File: VL037273.D
Acq: 2 Jul 2021 13:55

Tgt Ion	Ratio	Lower	Upper
83	100		
85	53.6	53.6	80.4#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





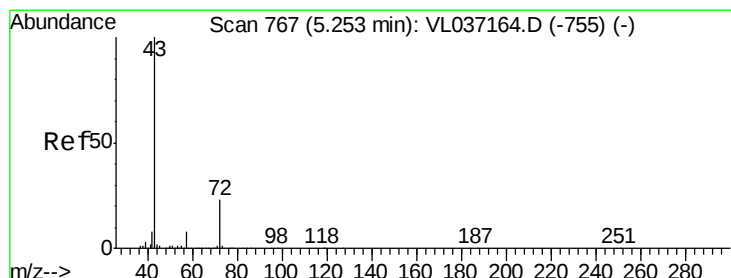
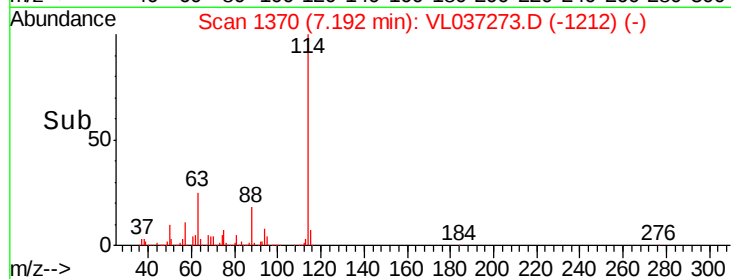
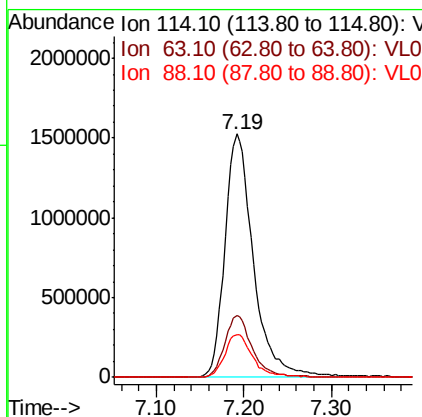
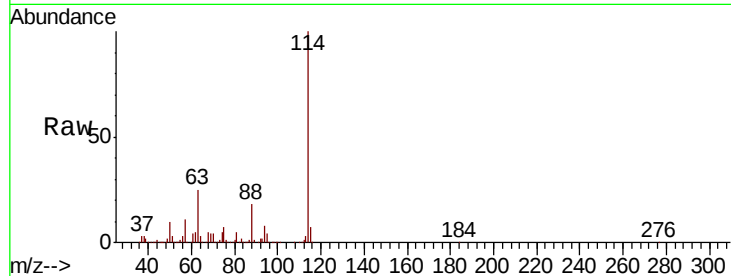
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. 0.01 min
 Lab File: VL037273.D
 Acq: 2 Jul 2021 13:55

Instrument :
 MSVOA_L
 ClientSampleId :
 1DUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.9	19.6	29.4
88	17.6	14.2	21.2

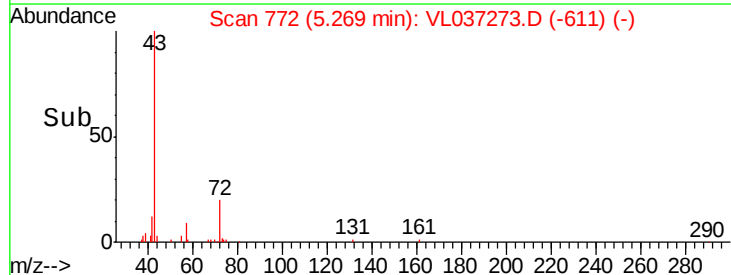
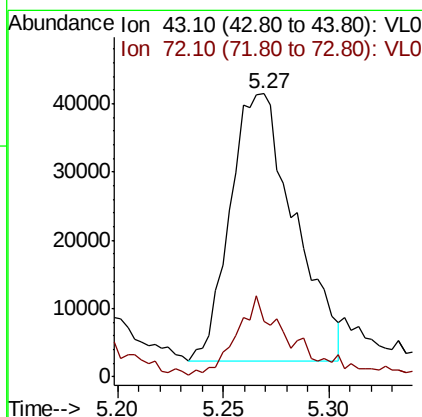
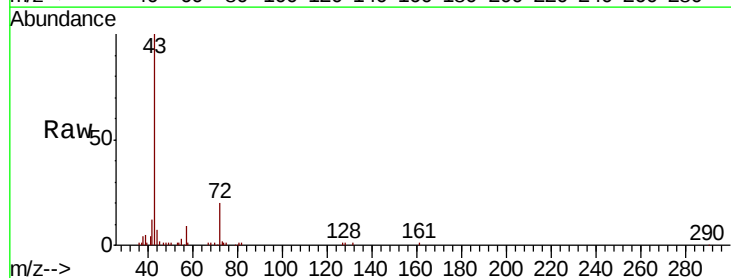
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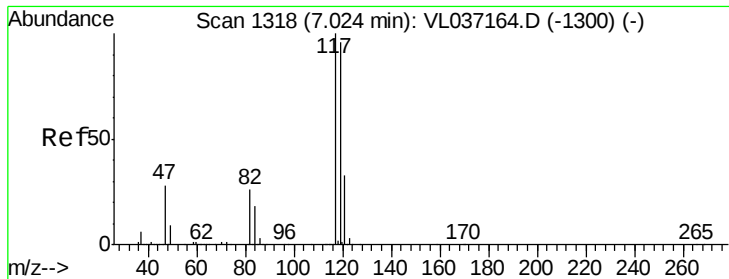
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#34
 2-Butanone
 Concen: 0.619 ppbv
 RT: 5.27 min Scan# 772
 Delta R.T. 0.02 min
 Lab File: VL037273.D
 Acq: 2 Jul 2021 13:55

Tgt Ion	Ratio	Lower	Upper
43	100		
72	29.4	18.9	28.3





#35

Carbon Tetrachloride

Concen: 0.058 ppbv m

RT: 7.03 min Scan# 1320

Delta R.T. 0.01 min

Lab File: VL037273.D

Acq: 2 Jul 2021 13:55

Instrument :

MSVOA_L

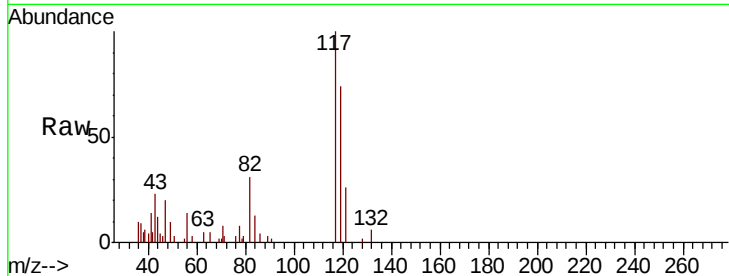
ClientSampleId :

1DUP

Tot Ion	Ratio	Lower	Upper
117	100		
119	73.9	76.6	114.8#
121	26.4	26.4	39.6#

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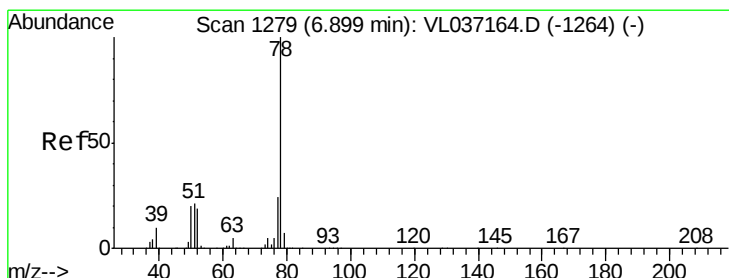
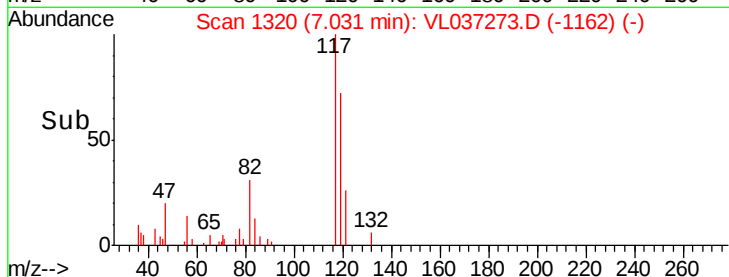
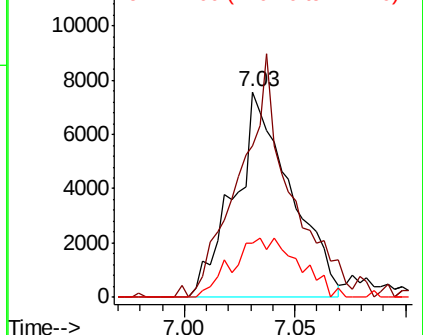


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.213 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. 0.01 min

Lab File: VL037273.D

Acq: 2 Jul 2021 13:55

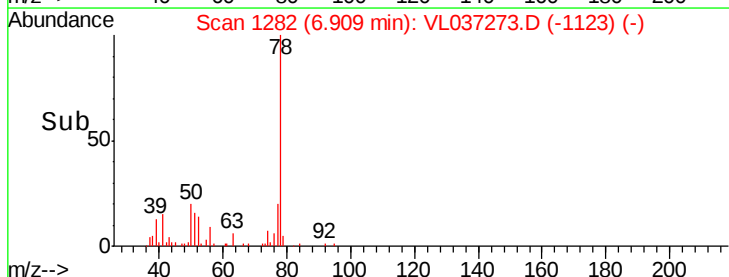
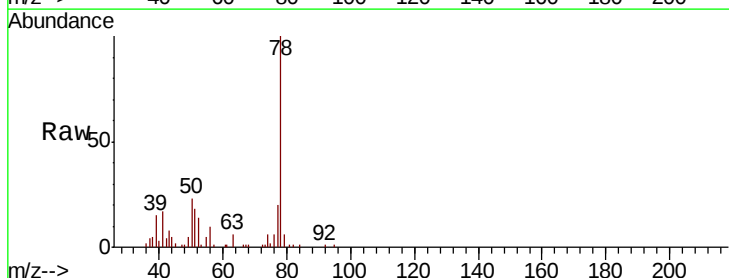
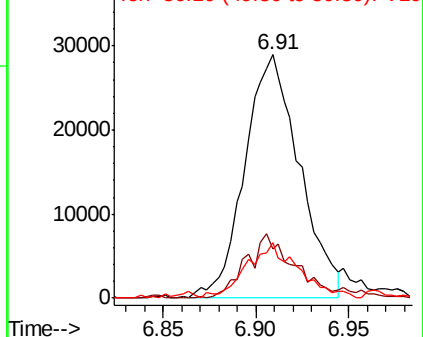
Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.0	19.0	28.6
50	19.9	15.7	23.5

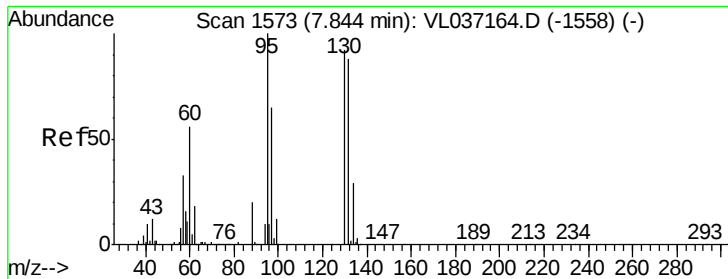
Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





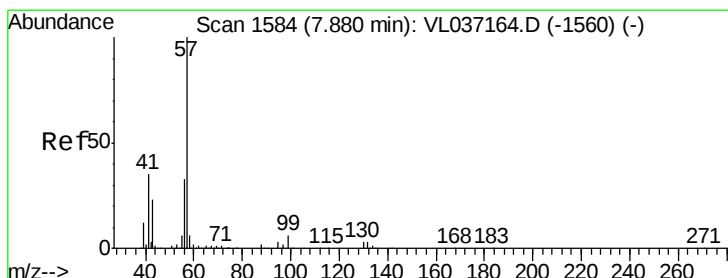
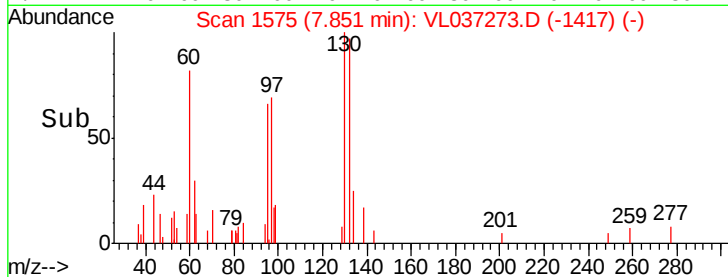
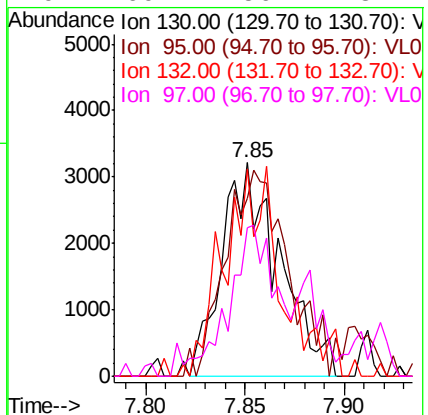
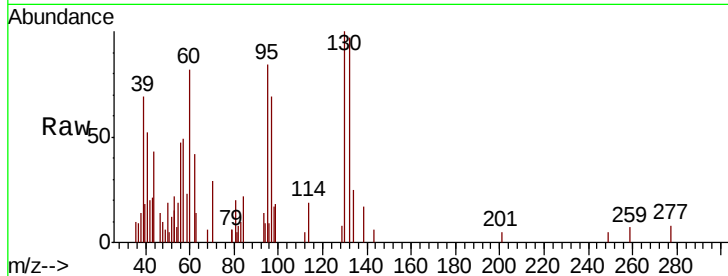
#38
 Trichloroethene
 Concen: 0.049 ppbv m
 RT: 7.85 min Scan# 1575
 Delta R.T. 0.01 min
 Lab File: VL037273.D
 Acq: 2 Jul 2021 13:55

Instrument :
 MSVOA_L
 ClientSampled :
 1DUP

Tot Ion	Ratio	Lower	Upper
130	100		
95	83.6	86.6	129.8#
132	97.2	76.6	114.8
97	69.4	56.1	84.1

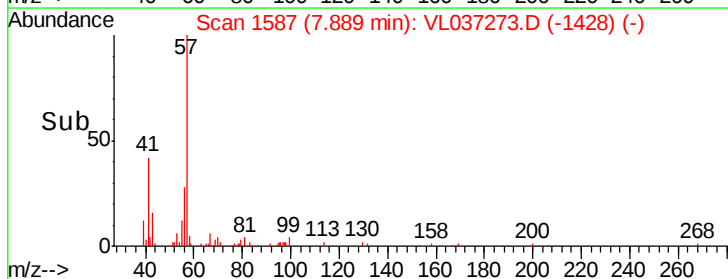
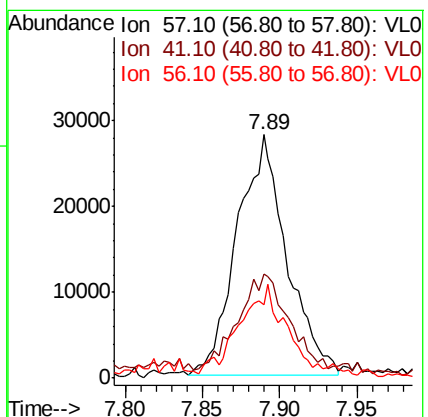
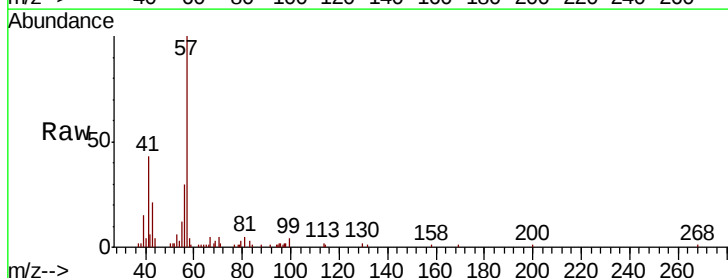
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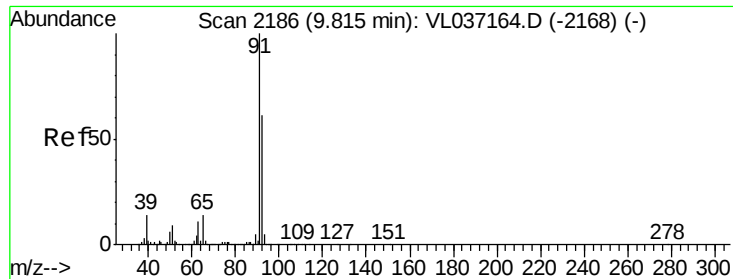
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#44
 2,2,4-Trimethylpentane
 Concen: 0.133 ppbv
 RT: 7.89 min Scan# 1587
 Delta R.T. 0.01 min
 Lab File: VL037273.D
 Acq: 2 Jul 2021 13:55

Tgt Ion	Ratio	Lower	Upper
57	100		
41	51.7	27.6	41.4#
56	44.4	25.3	37.9#





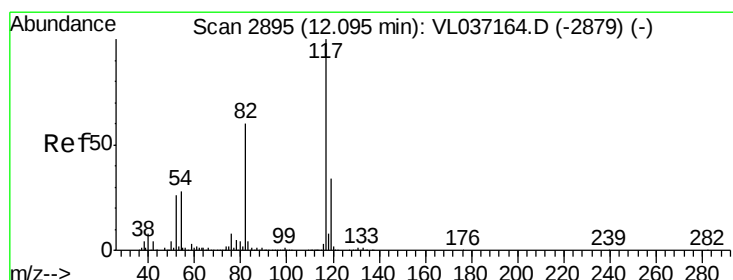
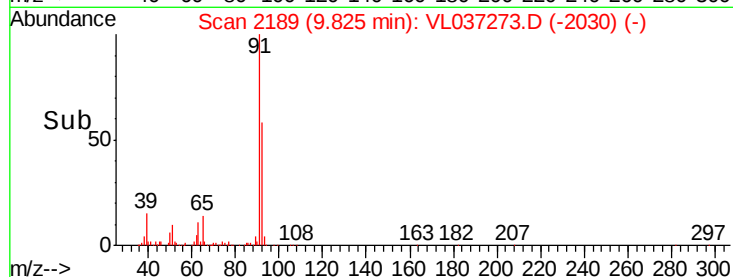
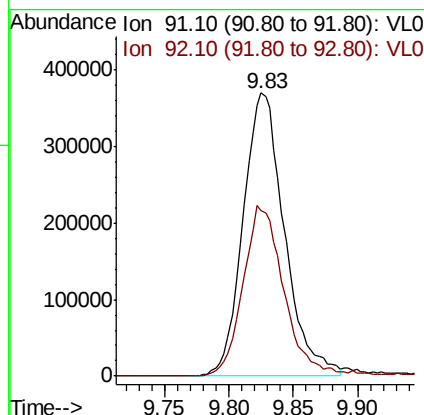
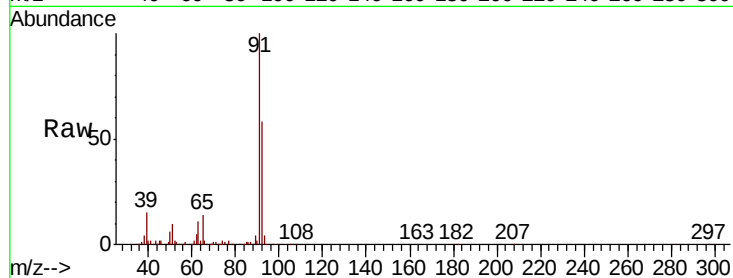
#53
Toluene
Concen: 2.475 ppbv
RT: 9.83 min Scan# 2189
Delta R.T. 0.01 min
Lab File: VL037273.D
Acq: 2 Jul 2021 13:55

Instrument :
MSVOA_L
ClientSampleId :
1DUP

Tot Ion	Ion	Ratio	Lower	Upper
91	100			
92	60.7	48.3	72.5	

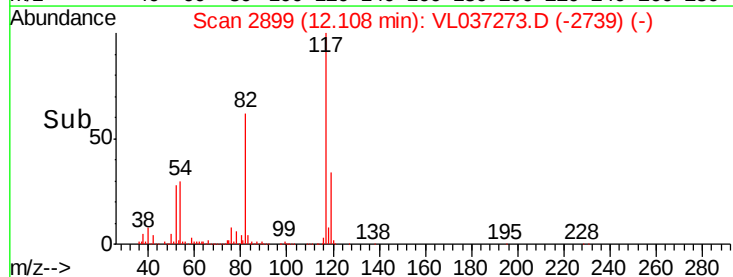
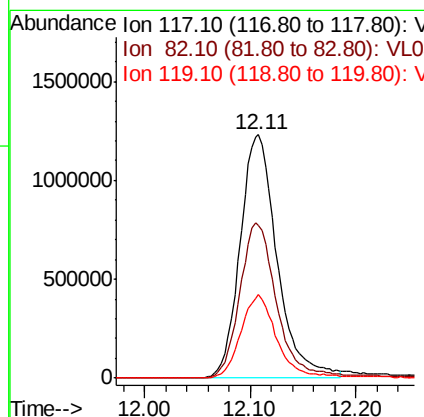
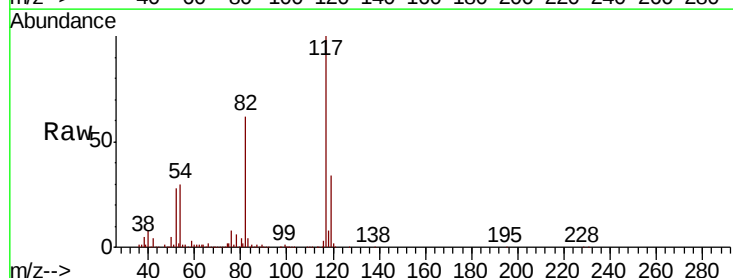
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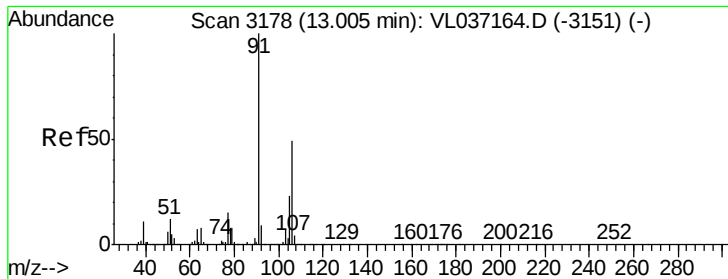
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. 0.01 min
Lab File: VL037273.D
Acq: 2 Jul 2021 13:55

Tgt Ion	Ion	Ratio	Lower	Upper
117	100			
82	65.3	51.7	77.5	
119	34.6	47.6	71.4	#





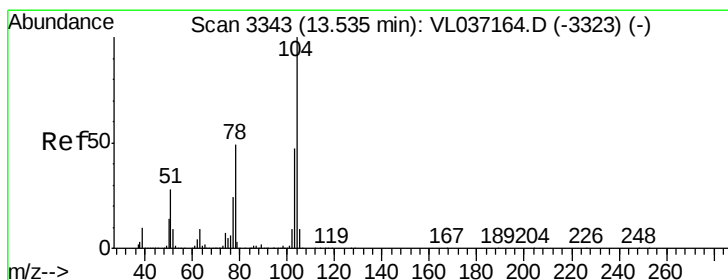
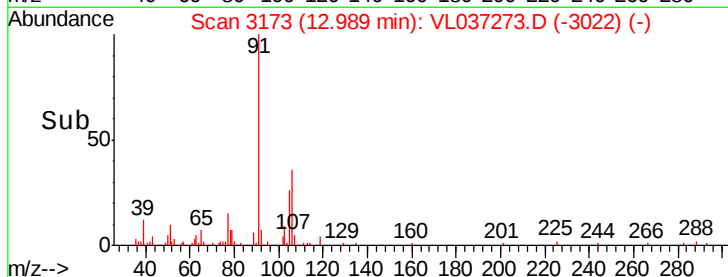
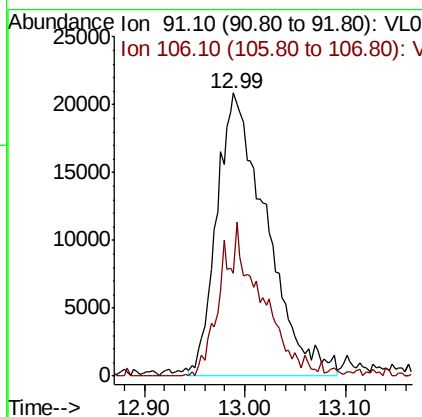
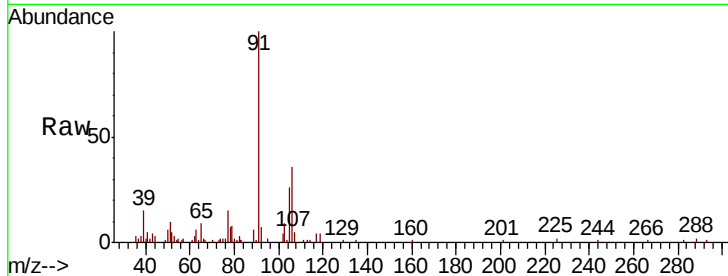
#59
m/p-Xylene
Concen: 0.204 ppbv m
RT: 12.99 min Scan# 3173
Delta R.T. -0.02 min
Lab File: VL037273.D
Acq: 2 Jul 2021 13:55

Instrument :
MSVOA_L
ClientSampled :
1DUP

Tot Ion	91	Resp	71632
Ion Ratio	100	Lower	Upper
106	0.0	37.0	55.4#

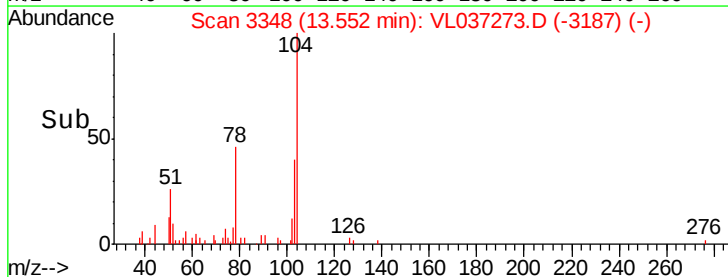
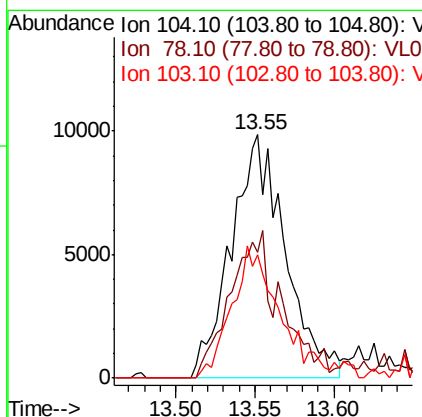
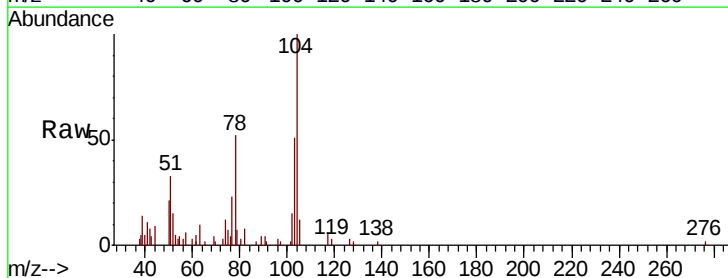
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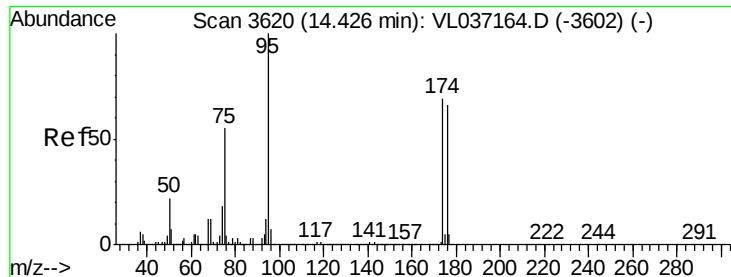
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#61
Styrene
Concen: 0.135 ppbv m
RT: 13.55 min Scan# 3348
Delta R.T. 0.02 min
Lab File: VL037273.D
Acq: 2 Jul 2021 13:55

Tgt Ion	104	Resp	23349
Ion Ratio	100	Lower	Upper
78	56.7	39.7	59.5
103	50.3	37.6	56.4





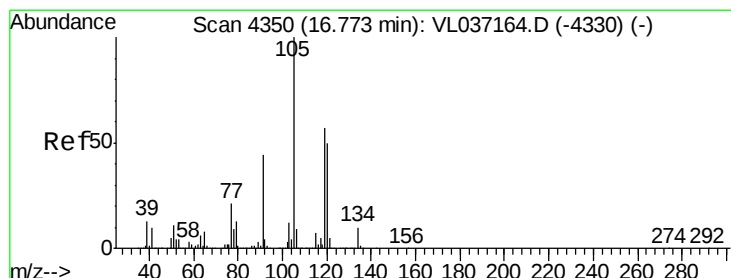
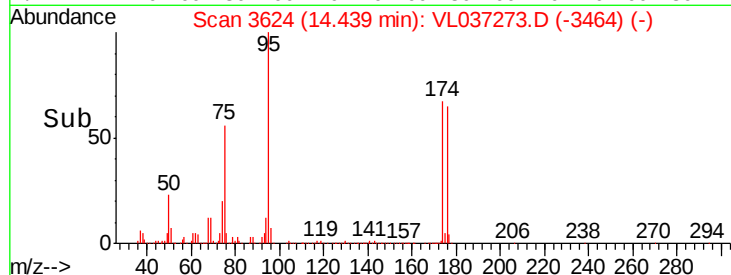
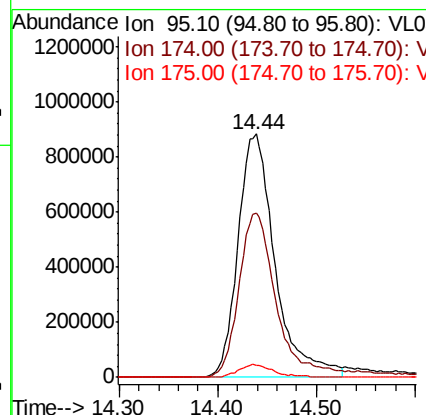
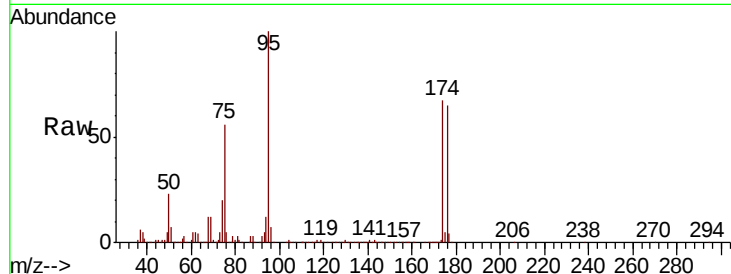
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.145 ppbv
 RT: 14.44 min Scan# 3624
 Delta R.T. 0.01 min
 Lab File: VL037273.D
 Acq: 2 Jul 2021 13:55

Instrument :
 MSVOA_L
 ClientSampled :
 1DUP

Tot Ion: 95 Resp: 2312615
 Ion Ratio Lower Upper
 95 100
 174 71.9 57.0 85.4
 175 5.3 4.4 6.6

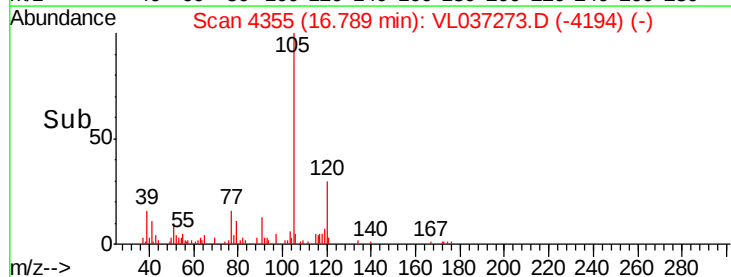
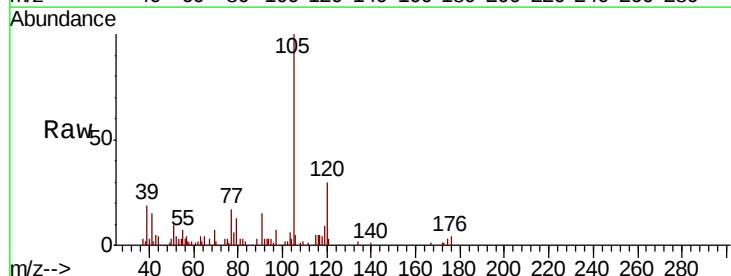
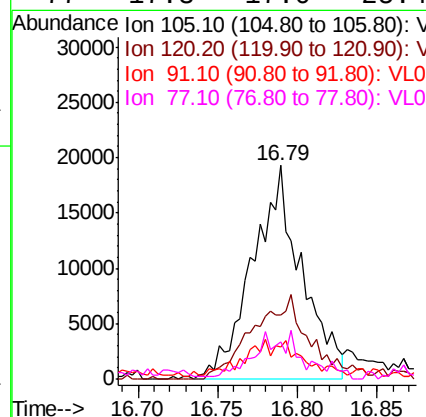
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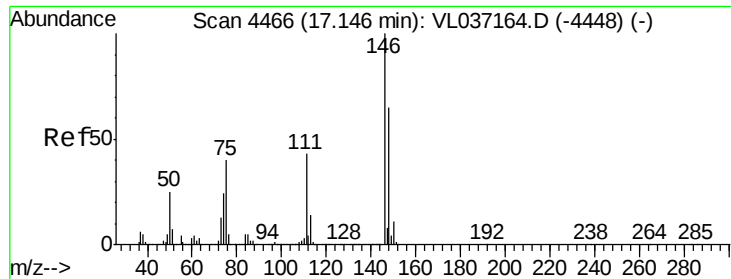
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.109 ppbv m
 RT: 16.79 min Scan# 4355
 Delta R.T. 0.02 min
 Lab File: VL037273.D
 Acq: 2 Jul 2021 13:55

Tgt Ion: 105 Resp: 41225
 Ion Ratio Lower Upper
 105 100
 120 29.9 39.8 59.8#
 91 15.1 37.0 55.4#
 77 17.3 17.0 25.4





#76

1,4-Dichlorobenzene

Concen: 1.747 ppbv m

RT: 17.16 min Scan# 4471

Delta R.T. 0.02 min

Lab File: VL037273.D

Acq: 2 Jul 2021 13:55

Instrument :

MSVOA_L

ClientSampleId :

1DUP

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.7	68.0
148	63.0	33.7	101.1

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