

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033021\
 Data File : VL036571.D
 Acq On : 30 Mar 2021 16:01
 Operator : SY/AP
 Sample : M1797-02 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MF-SG-02(2021)

Manual Integrations
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MMDadoda
 4/1/2021 10:58:18 AM

Quant Time: Mar 31 16:37:13 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 2
 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	1265578	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2938131	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	2660991	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2117900	9.99	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	23465m	0.114	ppbv	
13) Ethanol	3.59	45	854898	95.236	ppbv	96
15) Acetone	3.83	43	1732017	13.905	ppbv	99
17) tert-Butyl alcohol	4.29	59	29485m	0.272	ppbv	
19) Isopropyl Alcohol	3.99	45	344910m	5.034	ppbv	
20) Methylene Chloride	4.33	84	675719	11.586	ppbv	97
24) 1,1-Dichloroethane	5.00	63	21932m	0.141	ppbv	
26) Hexane	5.67	57	1363573	9.922	ppbv #	47
29) Chloroform	5.74	83	46824	0.213	ppbv	94
32) 1,1,1-Trichloroethane	6.49	97	1333666	6.021	ppbv	99
34) 2-Butanone	5.24	43	62667m	0.437	ppbv	
36) Benzene	6.87	78	52053	0.192	ppbv #	90
40) 1,4-Dioxane	7.84	88	25284m	0.988	ppbv	
52) Tetrachloroethene	11.20	164	22387m	0.224	ppbv	
53) Toluene	9.79	91	48949m	0.170	ppbv	

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

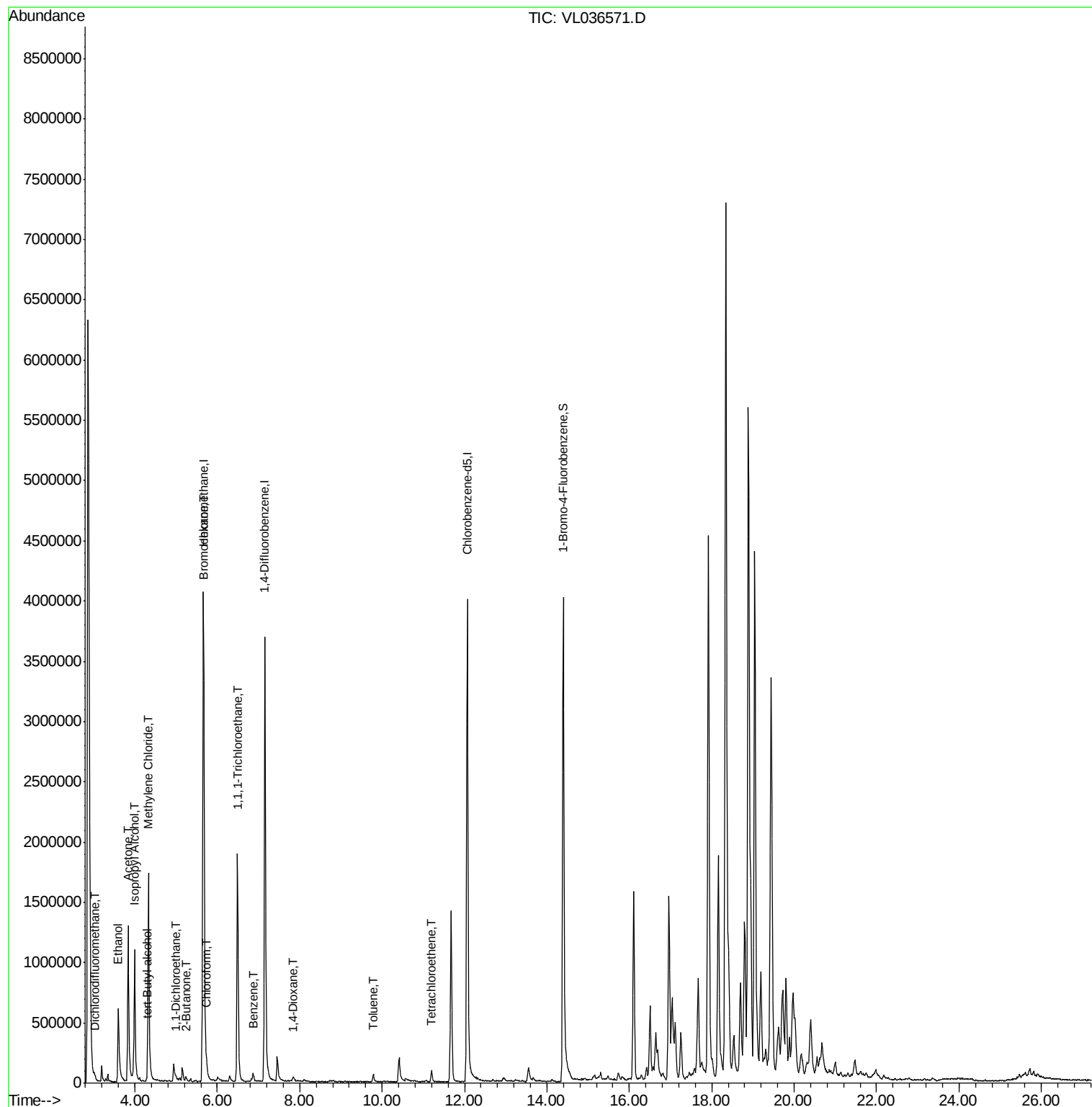
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL033021\
Data File : VL036571.D
Acq On : 30 Mar 2021 16:01
Operator : SY/AP
Sample : M1797-02 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

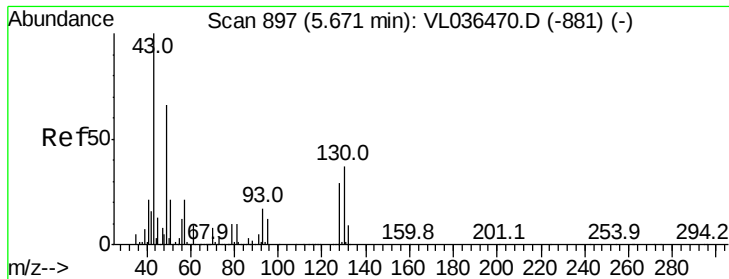
Instrument :
MSVOA_L
ClientSampleId :
MF-SG-02(2021)

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Quant Time: Mar 31 16:37:13 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# 890

Delta R.T. -0.02 min

Lab File: VL036571.D

Acq: 30 Mar 2021 16:01

Instrument :

MSVOA_L

ClientSampleId :

MF-SG-02(2021)

Tot Ion: 49 Resp: 1265578

Ion Ratio Lower Upper

49 100

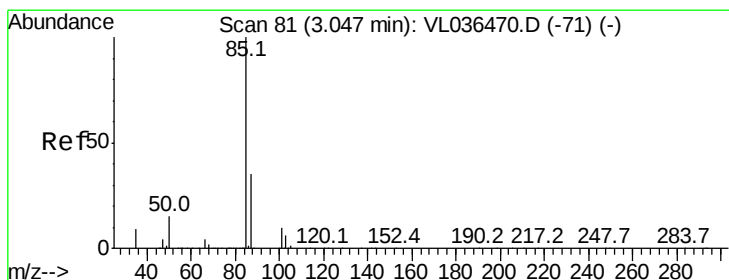
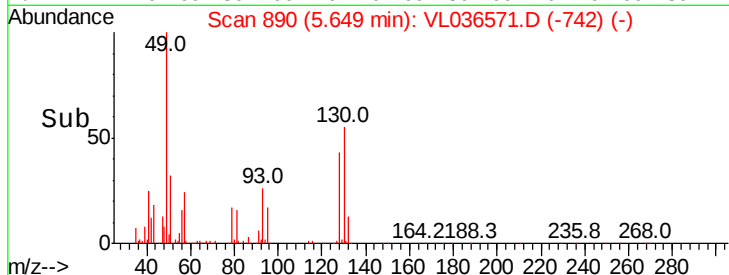
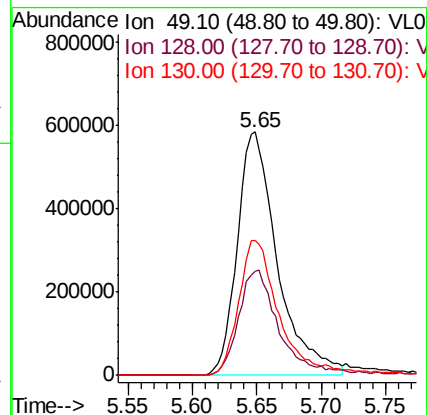
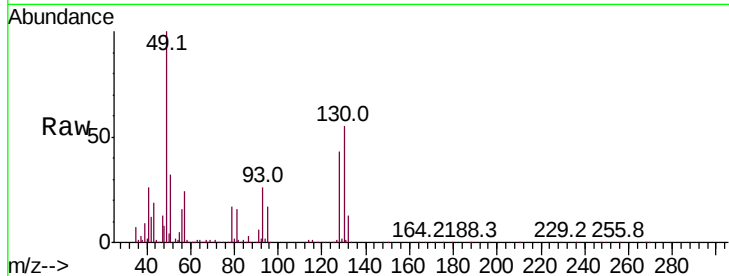
128 45.4 23.5 70.6

130 58.1 29.1 87.4

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#2

Dichlorodifluoromethane

Concen: 0.114 ppbv m

RT: 3.03 min Scan# 76

Delta R.T. -0.02 min

Lab File: VL036571.D

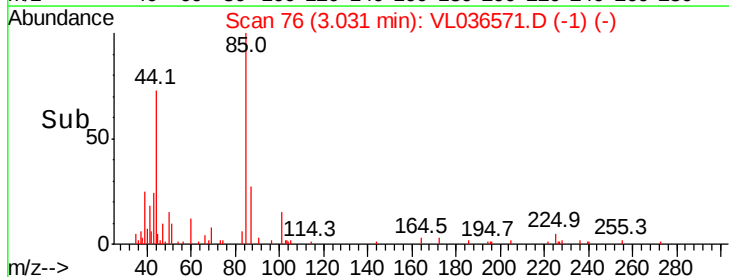
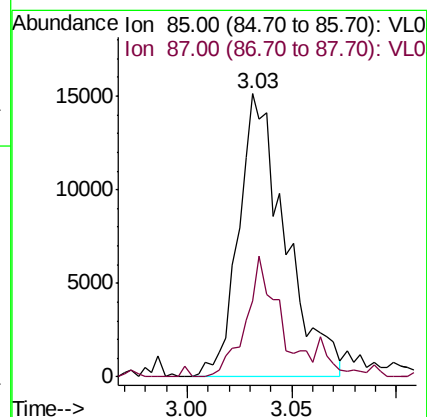
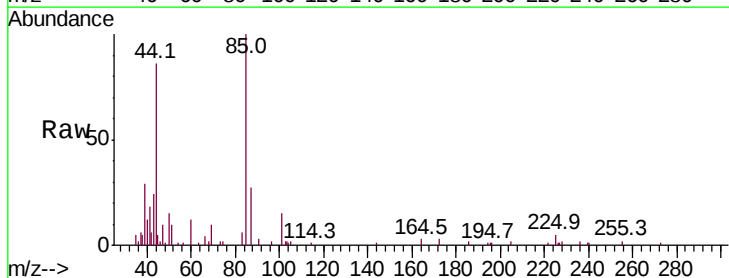
Acq: 30 Mar 2021 16:01

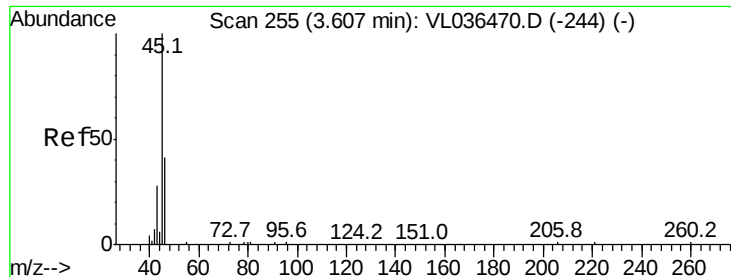
Tgt Ion: 85 Resp: 23465

Ion Ratio Lower Upper

85 100

87 26.7 27.8 41.8#





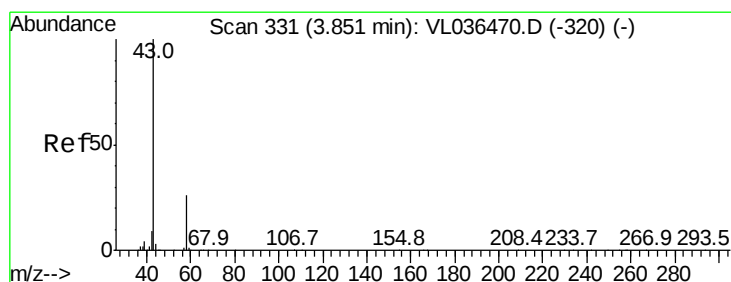
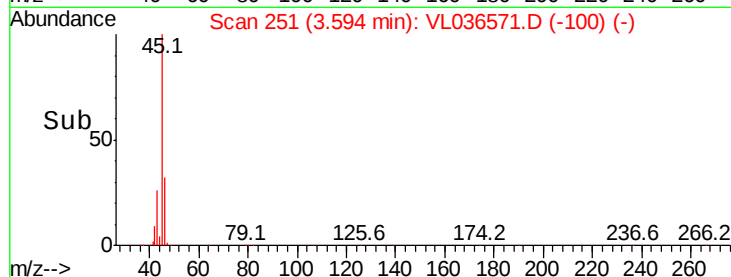
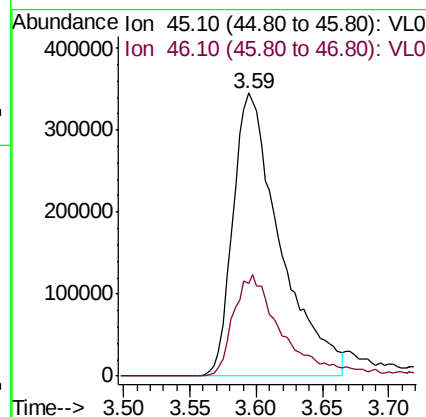
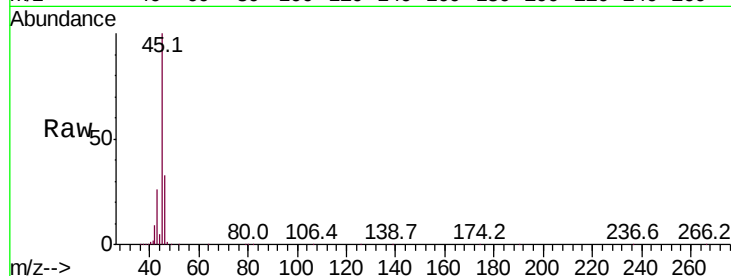
#13
Ethanol
Concen: 95.236 ppbv
RT: 3.59 min Scan# 251
Delta R.T. -0.01 min
Lab File: VL036571.D
Acq: 30 Mar 2021 16:01

Instrument :
MSVOA_L
ClientSampleId :
MF-SG-02(2021)

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.9	16.6	66.2

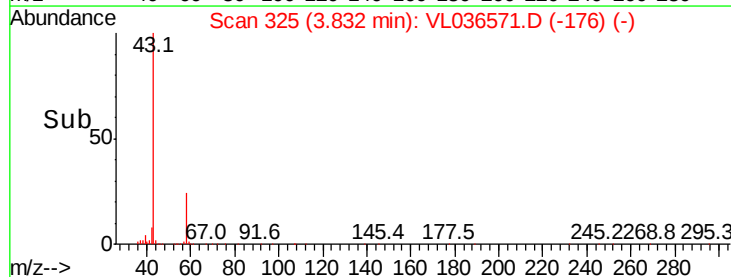
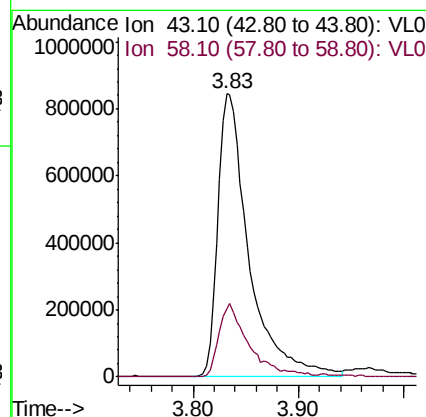
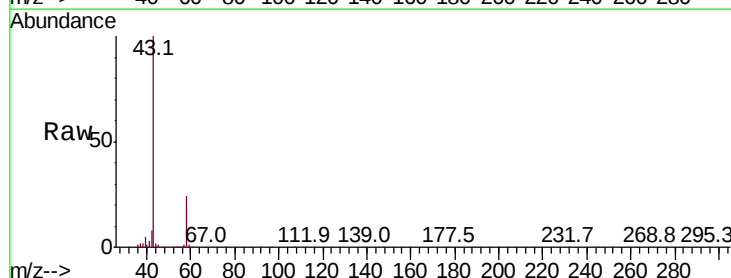
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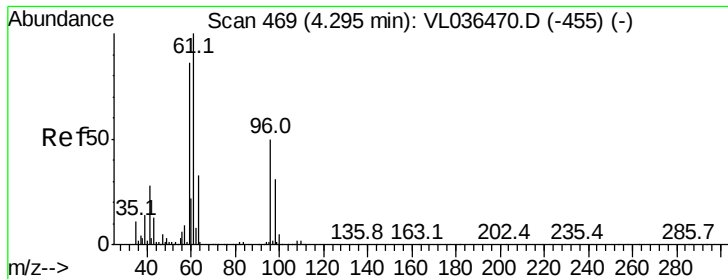
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#15
Acetone
Concen: 13.905 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.02 min
Lab File: VL036571.D
Acq: 30 Mar 2021 16:01

Tgt Ion	Ratio	Lower	Upper
43	100		
58	26.8	21.2	31.8





#17

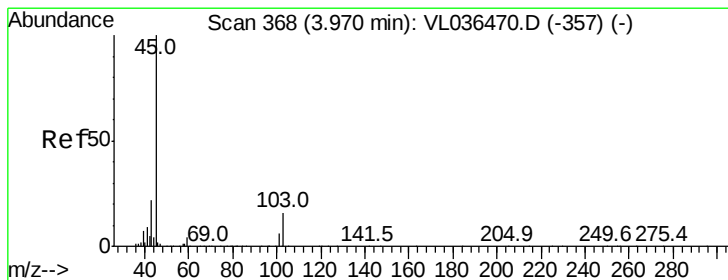
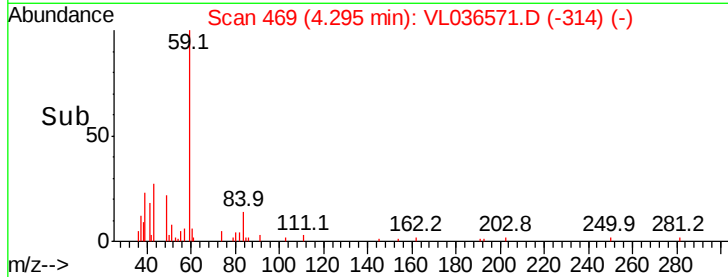
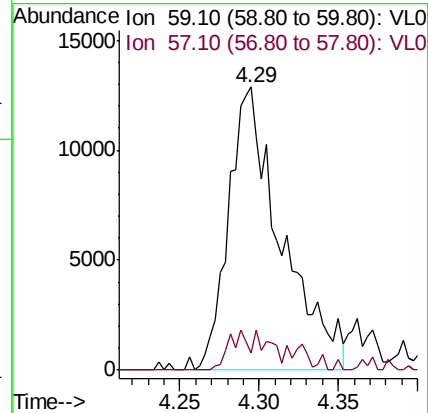
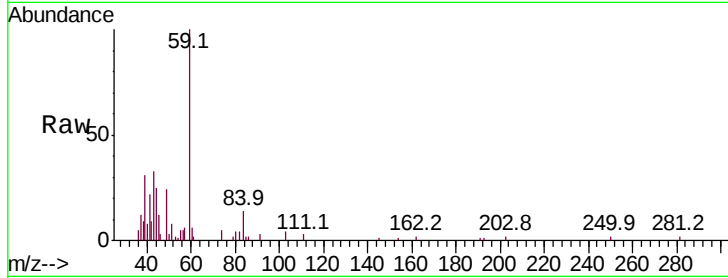
tert-Butyl alcohol
Concen: 0.272 ppbv m
RT: 4.29 min Scan# 469
Delta R.T. -0.00 min
Lab File: VL036571.D
Acq: 30 Mar 2021 16:01

Instrument :
MSVOA_L
ClientSampleId :
MF-SG-02(2021)

Tot Ion	Ratio	Lower	Upper
59	100		
57	15.0	8.6	12.8#

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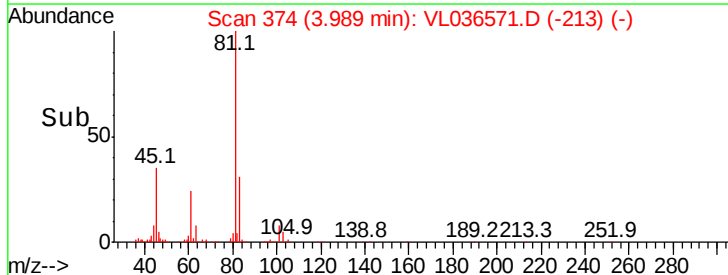
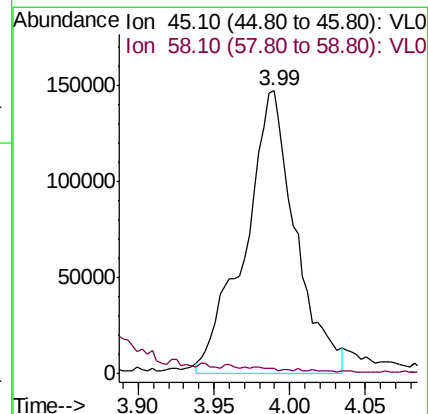
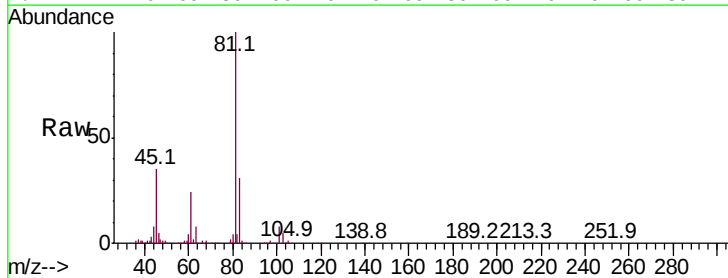
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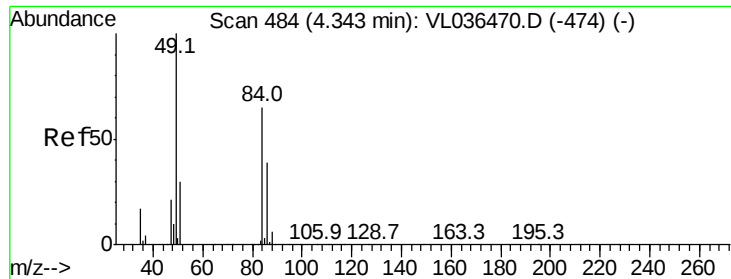


#19

Isopropyl Alcohol
Concen: 5.034 ppbv m
RT: 3.99 min Scan# 374
Delta R.T. 0.02 min
Lab File: VL036571.D
Acq: 30 Mar 2021 16:01

Tgt Ion	Ratio	Lower	Upper
45	100		
58	129.4	2.9	4.3#





#20

Methylene Chloride

Concen: 11.586 ppbv

RT: 4.33 min Scan# 480

Delta R.T. -0.01 min

Lab File: VL036571.D

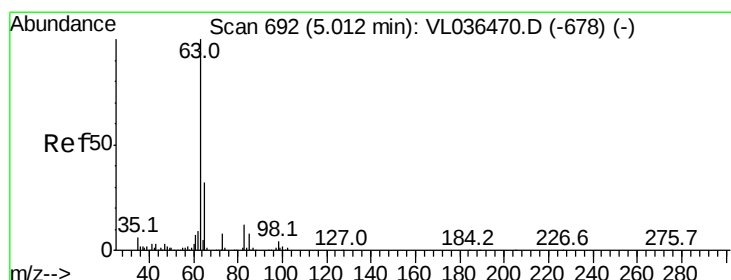
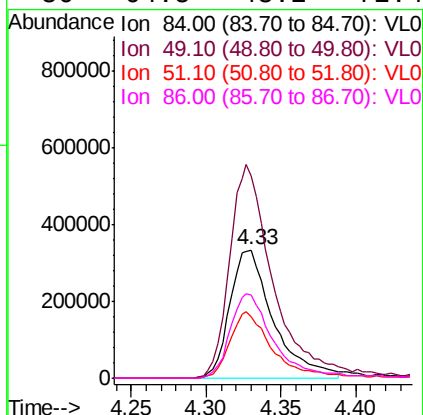
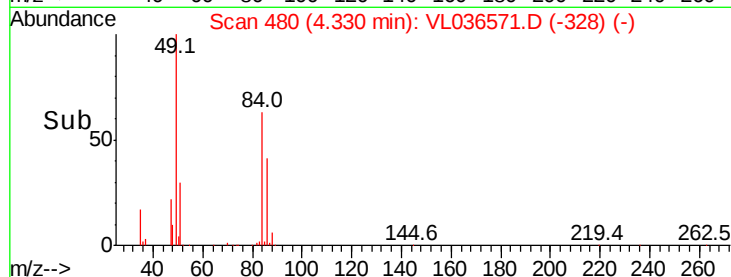
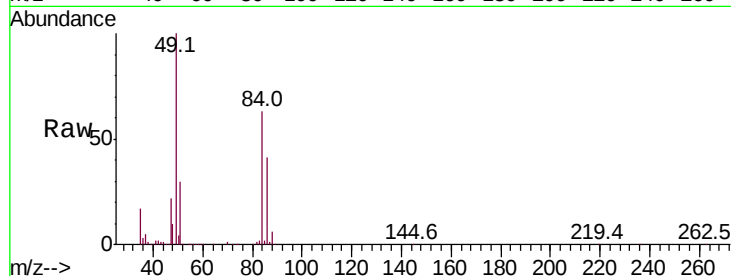
Acq: 30 Mar 2021 16:01

Instrument :
MSVOA_L
ClientSampleId :
MF-SG-02(2021)

Tot Ion	84	Resp	675719
Ion Ratio	Lower	Upper	
84	100		
49	157.5	122.9	184.3
51	47.7	36.9	55.3
86	64.5	48.2	72.4

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#24

1,1-Dichloroethane

Concen: 0.141 ppbv m

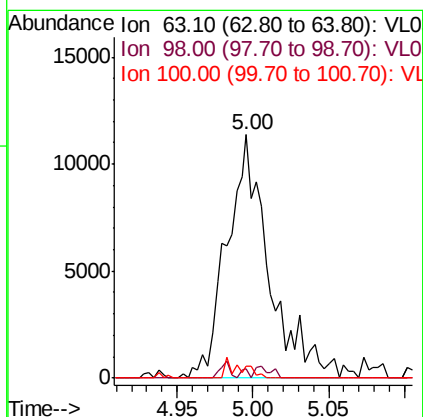
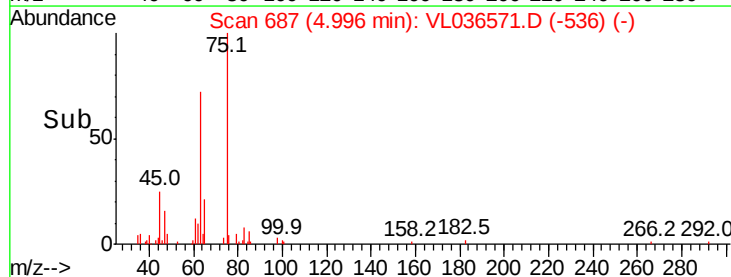
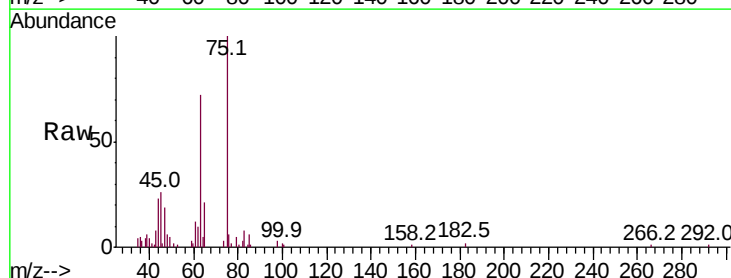
RT: 5.00 min Scan# 687

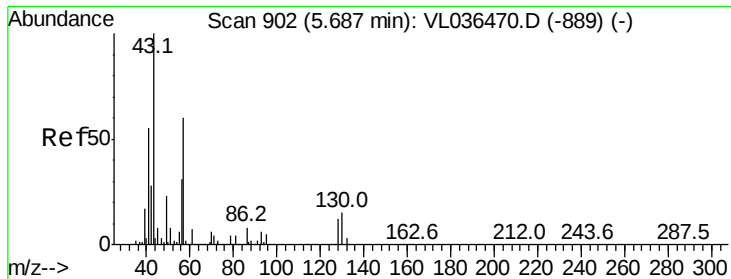
Delta R.T. -0.02 min

Lab File: VL036571.D

Acq: 30 Mar 2021 16:01

Tgt Ion	63	Resp	21932
Ion Ratio	Lower	Upper	
63	100		
98	3.6	2.1	6.2
100	3.4	0.9	2.8#





#26

Hexane

Concen: 9.922 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.02 min

Lab File: VL036571.D

Acq: 30 Mar 2021 16:01

Instrument :

MSVOA_L

ClientSampleId :

MF-SG-02(2021)

Tot Ion: 57 Resp: 1363573

Ion Ratio Lower Upper

57 100

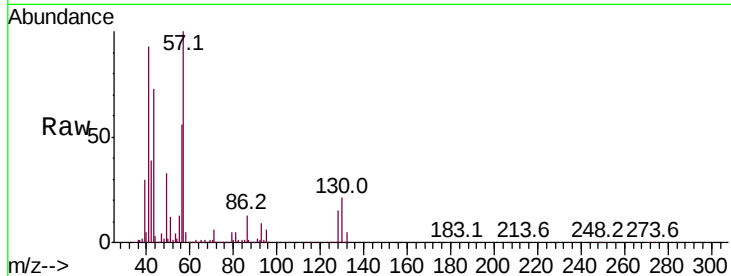
41 96.5 77.2 115.8

43 74.5 173.8 260.6#

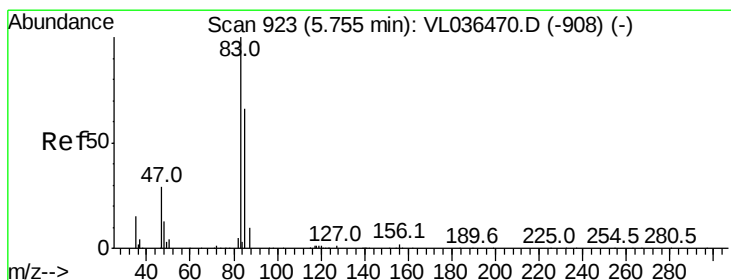
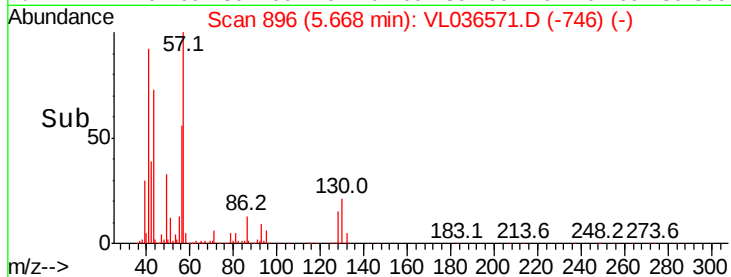
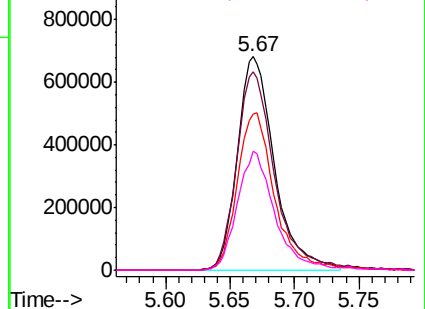
56 56.9 43.8 65.6

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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: 0.213 ppbv

RT: 5.74 min Scan# 917

Delta R.T. -0.02 min

Lab File: VL036571.D

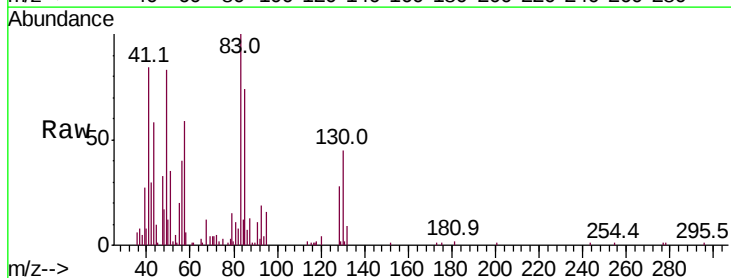
Acq: 30 Mar 2021 16:01

Tgt Ion: 83 Resp: 46824

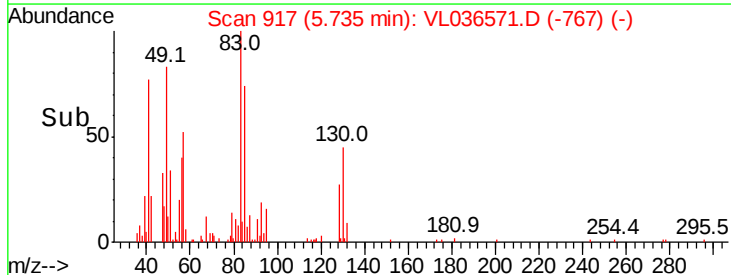
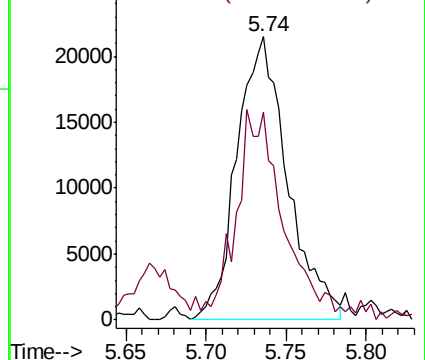
Ion Ratio Lower Upper

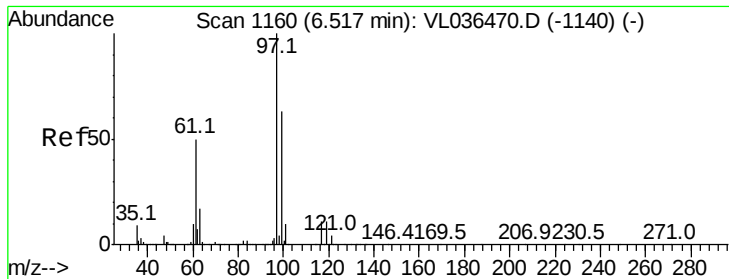
83 100

85 70.1 52.6 78.8



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





#32

1,1,1-Trichloroethane

Concen: 6.021 ppbv

RT: 6.49 min Scan# 1152

Delta R.T. -0.03 min

Lab File: VL036571.D

Acq: 30 Mar 2021 16:01

Instrument :

MSVOA_L

ClientSampleId :

MF-SG-02(2021)

Tot Ion: 97 Resp: 1333666

Ion Ratio Lower Upper

97 100

99 62.4 51.4 77.0

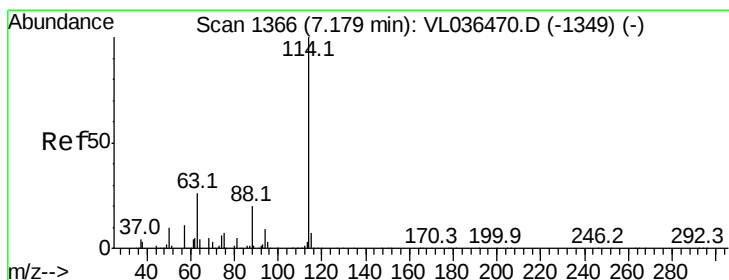
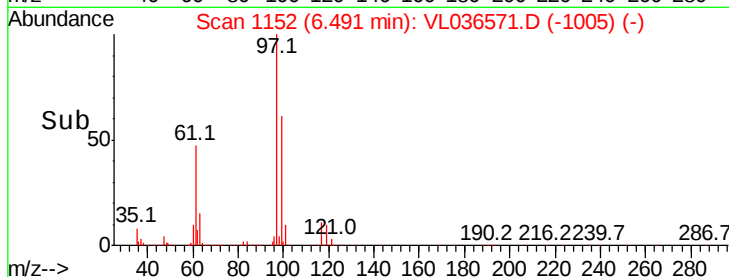
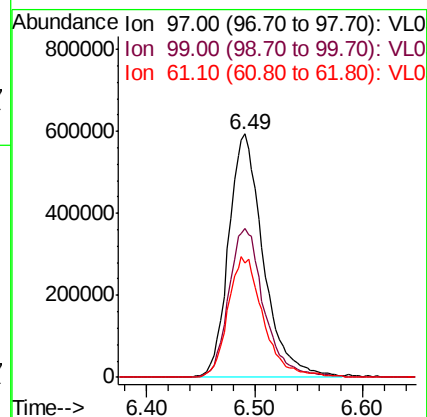
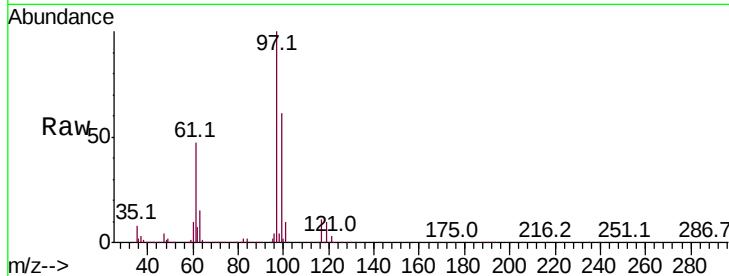
61 50.6 40.6 60.8

Manual Integrations

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.02 min

Lab File: VL036571.D

Acq: 30 Mar 2021 16:01

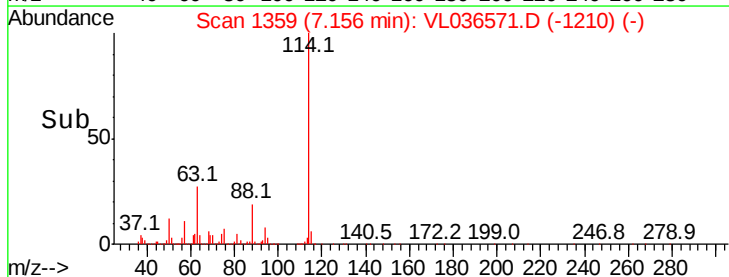
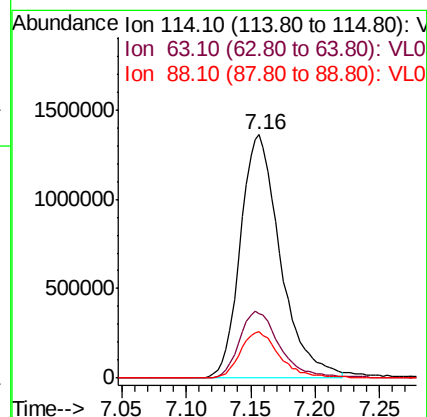
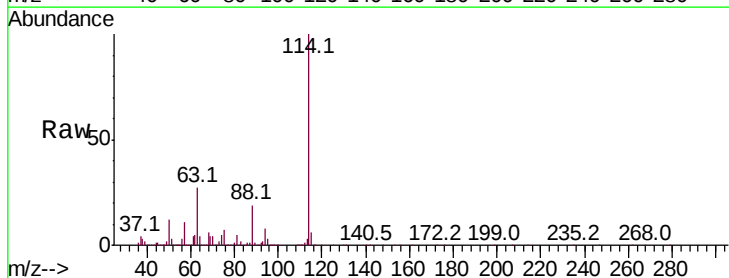
Tgt Ion: 114 Resp: 2938131

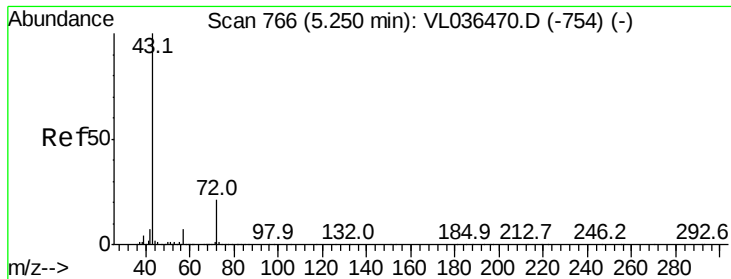
Ion Ratio Lower Upper

114 100

63 28.3 22.4 33.6

88 19.2 15.4 23.0





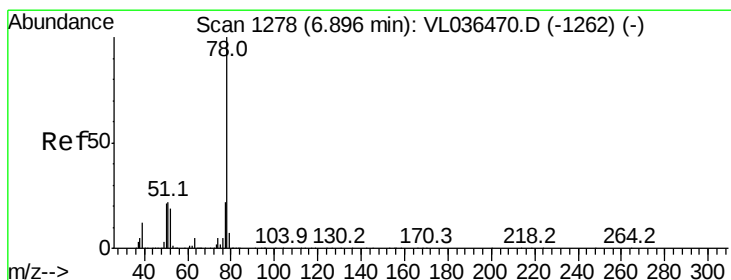
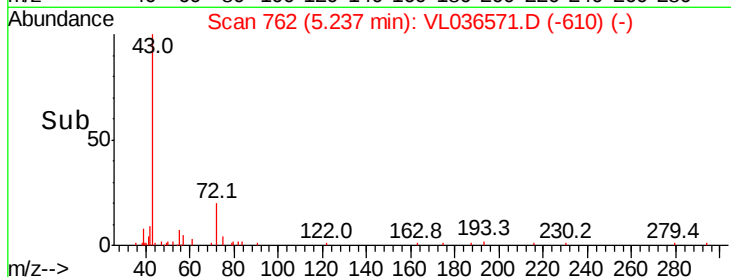
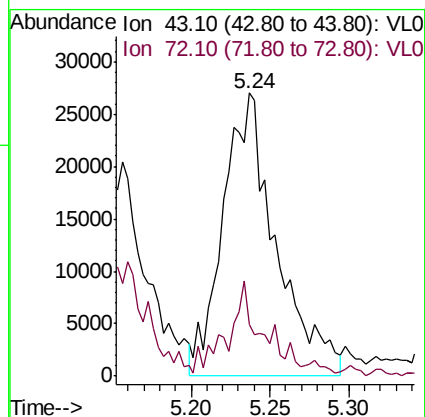
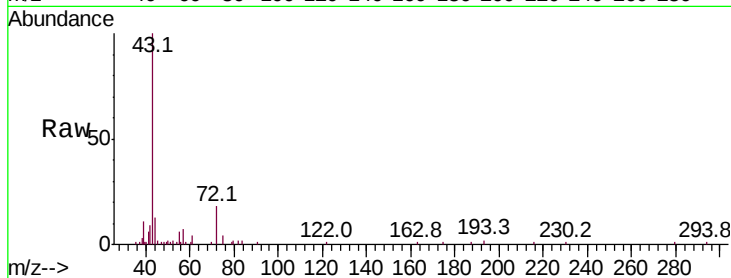
#34
2-Butanone
Concen: 0.437 ppbv m
RT: 5.24 min Scan# 762
Delta R.T. -0.01 min
Lab File: VL036571.D
Acq: 30 Mar 2021 16:01

Instrument :
MSVOA_L
ClientSampleId :
MF-SG-02(2021)

Tot Ion	Ratio	Lower	Upper
43	100		
72	25.2	17.0	25.6

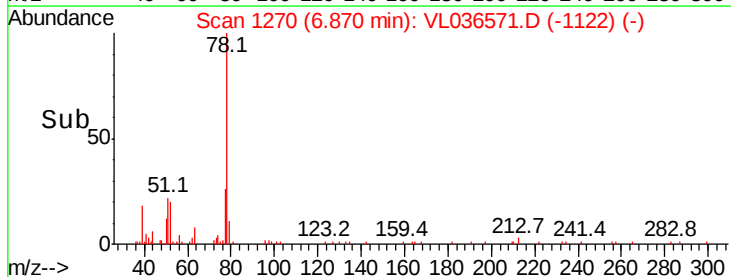
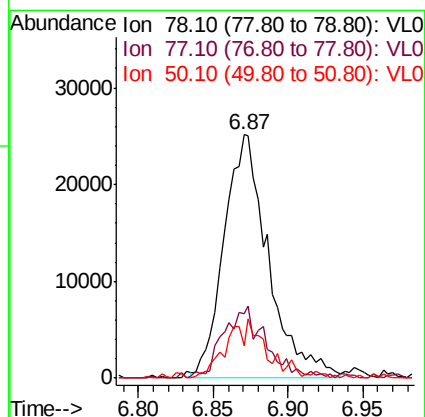
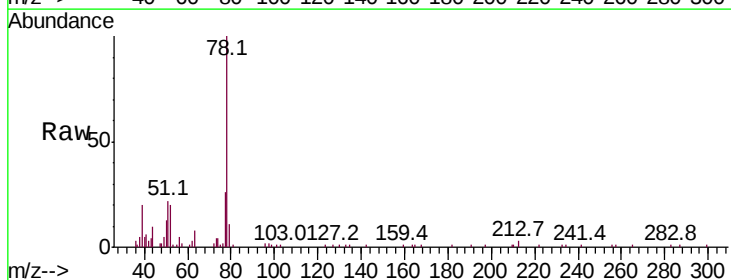
Manual Integrations
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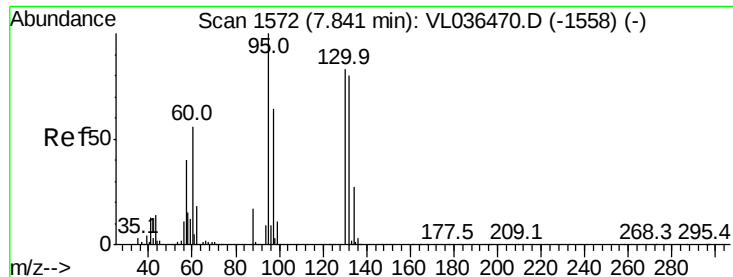
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#36
Benzene
Concen: 0.192 ppbv
RT: 6.87 min Scan# 1270
Delta R.T. -0.03 min
Lab File: VL036571.D
Acq: 30 Mar 2021 16:01

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.9	18.0	27.0
50	13.8	16.5	24.7#





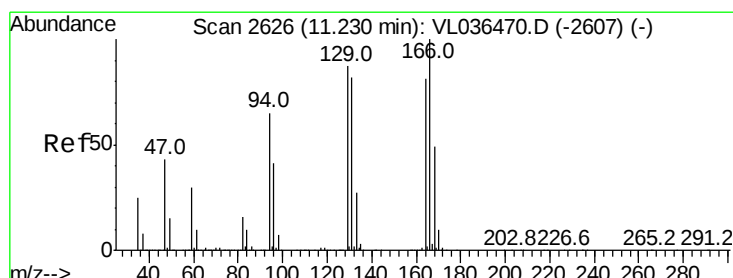
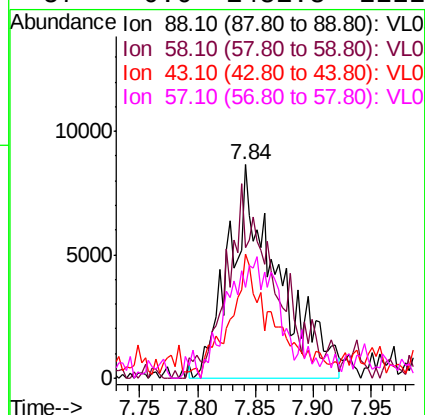
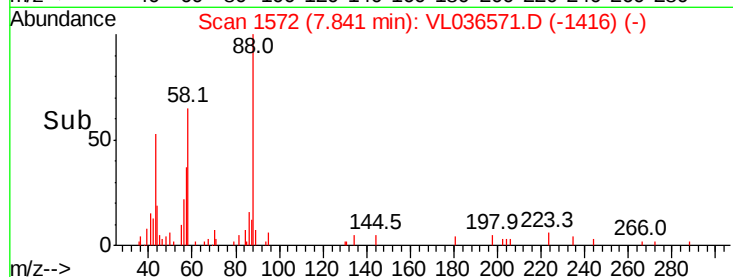
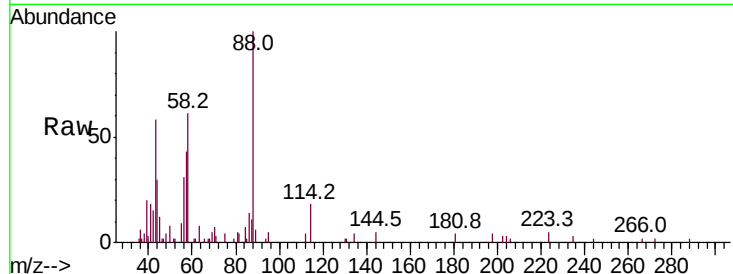
#40
1,4-Dioxane
Concen: 0.988 ppbv m
RT: 7.84 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL036571.D
Acq: 30 Mar 2021 16:01

Instrument :
MSVOA_L
ClientSampleId :
MF-SG-02(2021)

Tot Ion	Ratio	Lower	Upper
88	100		
58	0.0	134.1	201.1#
43	0.0	346.6	520.0#
57	0.0	1481.8	2222.8#

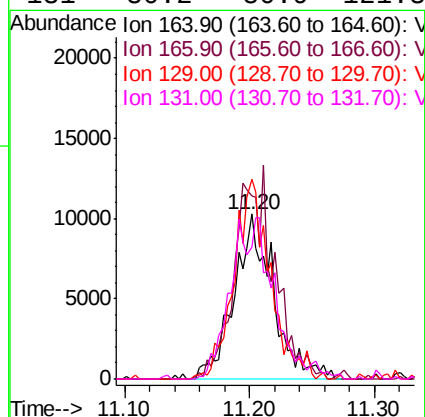
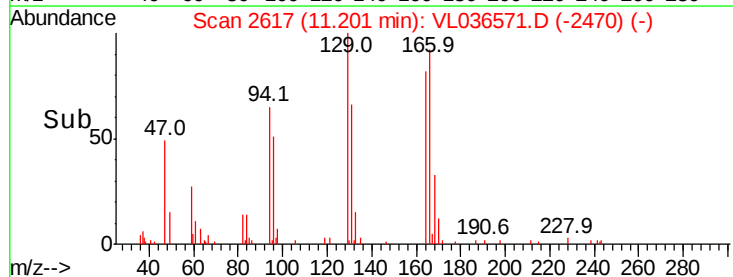
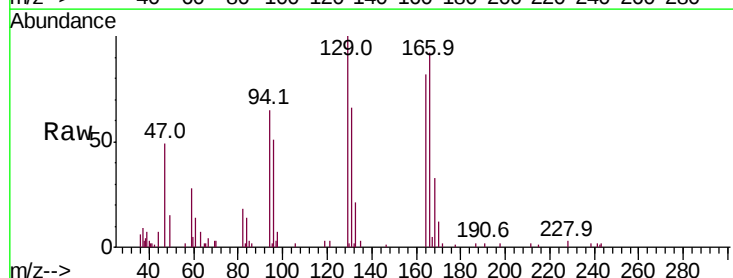
Manual Integrations
APPROVED

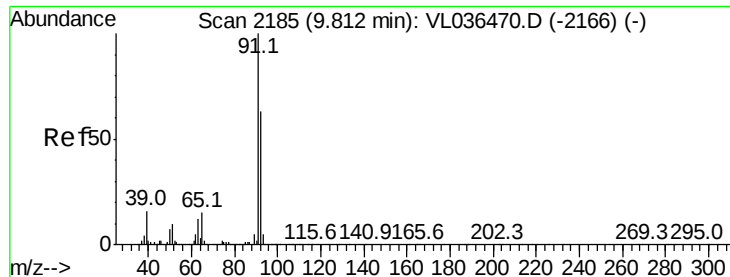
MMDadoda
4/1/2021 10:58:18 AM



#52
Tetrachloroethene
Concen: 0.224 ppbv m
RT: 11.20 min Scan# 2617
Delta R.T. -0.03 min
Lab File: VL036571.D
Acq: 30 Mar 2021 16:01

Tgt Ion	Ratio	Lower	Upper
164	100		
166	111.4	98.3	147.5
129	121.5	85.8	128.8
131	80.2	80.9	121.3#





#53

Toluene

Concen: 0.170 ppbv m

RT: 9.79 min Scan# 2177

Delta R.T. -0.03 min

Lab File: VL036571.D

Acq: 30 Mar 2021 16:01

Instrument :

MSVOA_L

ClientSampleId :

MF-SG-02(2021)

Tot Ion: 91 Resp: 48949

Ion Ratio Lower Upper

91 100

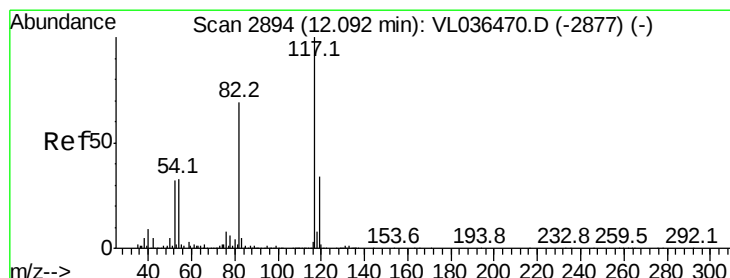
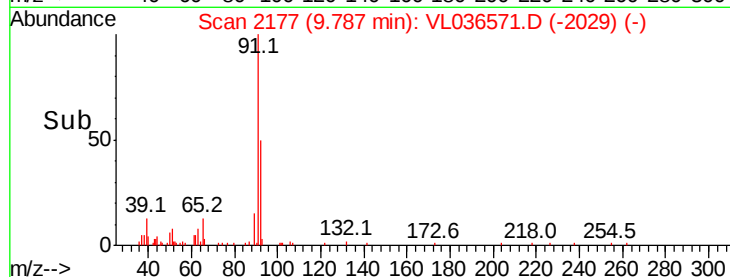
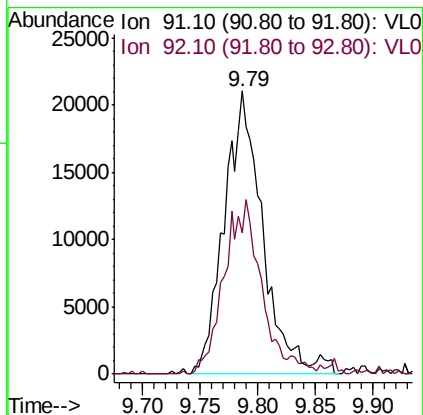
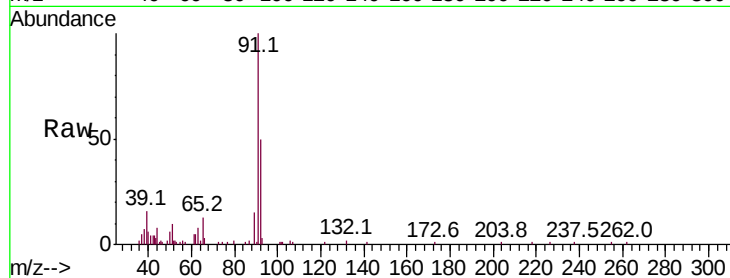
92 0.0 48.8 73.2#

Manual Integrations

APPROVED

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4/1/2021 10:58:18 AM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.03 min

Lab File: VL036571.D

Acq: 30 Mar 2021 16:01

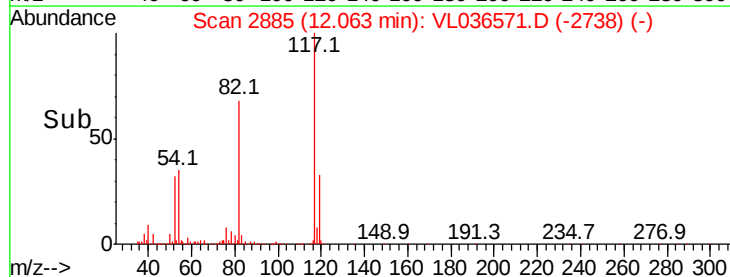
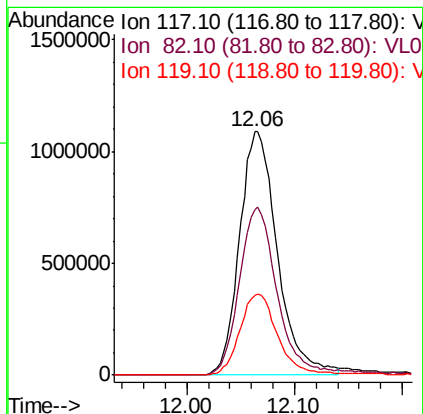
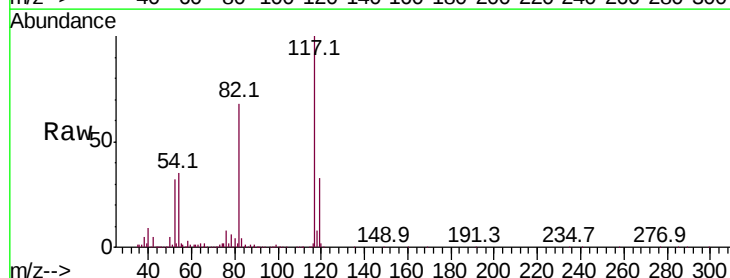
Tgt Ion: 117 Resp: 2660991

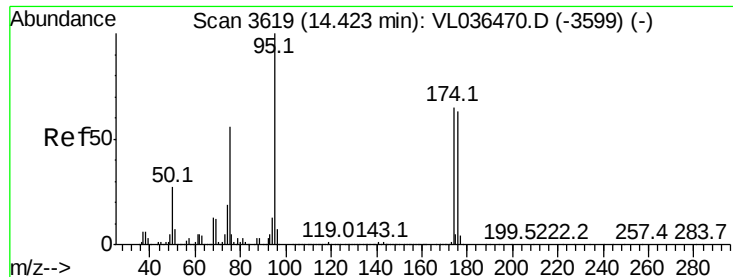
Ion Ratio Lower Upper

117 100

82 71.2 57.4 86.0

119 33.5 47.4 71.0#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.986 ppbv
 RT: 14.40 min Scan# 3611
 Delta R.T. -0.03 min
 Lab File: VL036571.D
 Acq: 30 Mar 2021 16:01

Instrument :
 MSVOA_L
 ClientSampleId :
 MF-SG-02(2021)

Tot Ion: 95 Resp: 2117900
 Ion Ratio Lower Upper
 95 100
 174 64.2 51.0 76.6
 175 4.7 3.9 5.9

Manual Integrations
 APPROVED

MMDadoda
 4/1/2021 10:58:18 AM

