

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032621\
 Data File : VL036516.D
 Acq On : 26 Mar 2021 16:26
 Operator : SY/AP
 Sample : M1760-05
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-8-RM-NETXT-TO-GR

Manual Integrations
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 3/29/2021 4:39:21 PM

Quant Time: Mar 28 21:06:01 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 28 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	5.69	49	1516780	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.20	114	3383758	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.12	117	3105236	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	2466048	9.96	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	45773m	0.185	ppbv	
11) Trichlorofluoromethane	3.96	101	48337	0.192	ppbv	99
13) Ethanol	3.63	45	3084527	286.708	ppbv	93
15) Acetone	3.87	43	1226328m	8.215	ppbv	
17) tert-Butyl alcohol	4.32	59	54737m	0.421	ppbv	
19) Isopropyl Alcohol	3.99	45	1300641	15.838	ppbv	98
20) Methylene Chloride	4.36	84	140103	2.004	ppbv	98
25) Ethyl Acetate	5.70	43	587769	1.656	ppbv #	95
29) Chloroform	5.77	83	36089m	0.137	ppbv	
34) 2-Butanone	5.27	43	77124m	0.467	ppbv	
35) Carbon Tetrachloride	7.04	117	14004m	0.054	ppbv	
36) Benzene	6.92	78	37836m	0.121	ppbv	
38) Trichloroethene	7.86	130	212380m	1.749	ppbv	
52) Tetrachloroethene	11.26	164	5200m	0.045	ppbv	
53) Toluene	9.84	91	136780	0.412	ppbv	99
59) m/p-Xylene	13.01	91	70715m	0.179	ppbv	
61) Styrene	13.57	104	23544m	0.123	ppbv	
76) 1,4-Dichlorobenzene	17.17	146	62061m	0.266	ppbv	

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

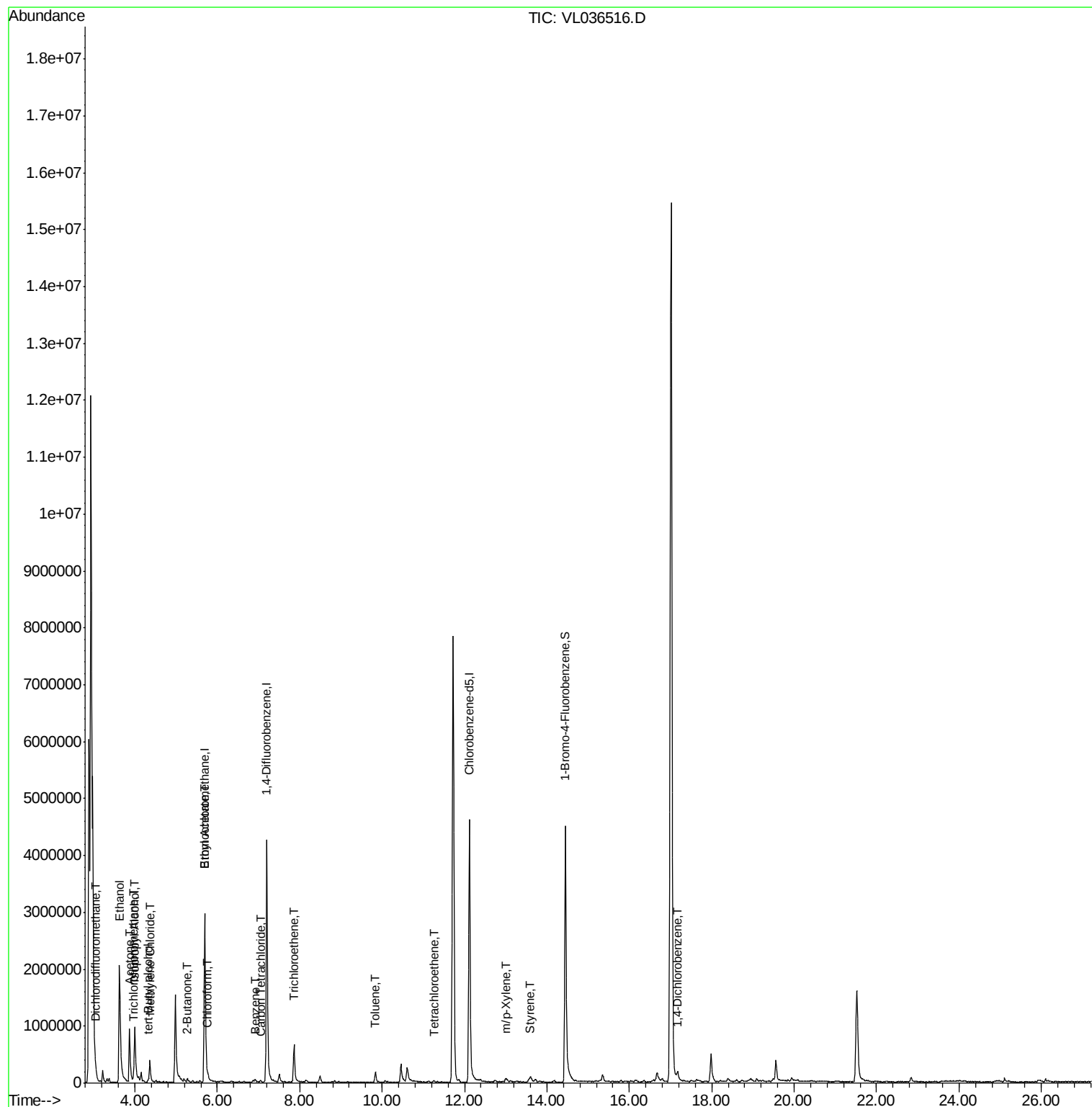
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032621\
Data File : VL036516.D
Acq On : 26 Mar 2021 16:26
Operator : SY/AP
Sample : M1760-05
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

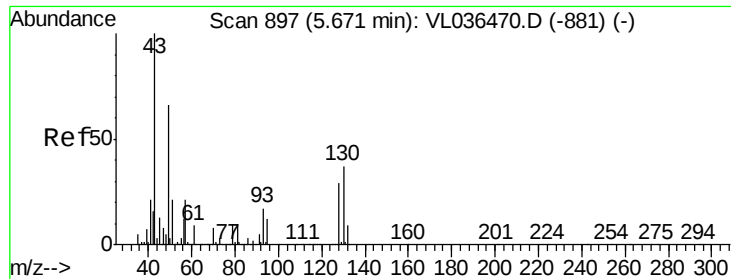
Instrument :
MSVOA_L
ClientSampleId :
SS-8-RM-NETXT-TO-GR

Manual Integrations
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3/29/2021 4:39:21 PM

Quant Time: Mar 28 21:06:01 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: 5.69 min Scan# 902

Delta R.T. 0.02 min

Lab File: VL036516.D

Acq: 26 Mar 2021 16:26

Instrument :

MSVOA_L

ClientSampleId :

SS-8-RM-NETXT-TO-GR

Tot Ion: 49 Resp: 1516780

Ion Ratio Lower Upper

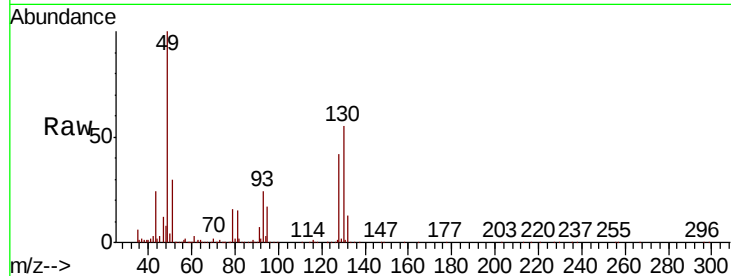
49 100

128 44.5 23.5 70.6

130 57.1 29.1 87.4

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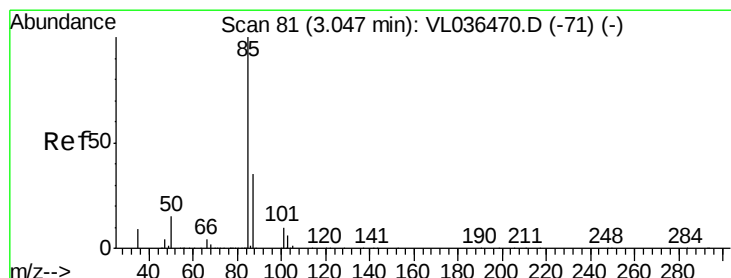
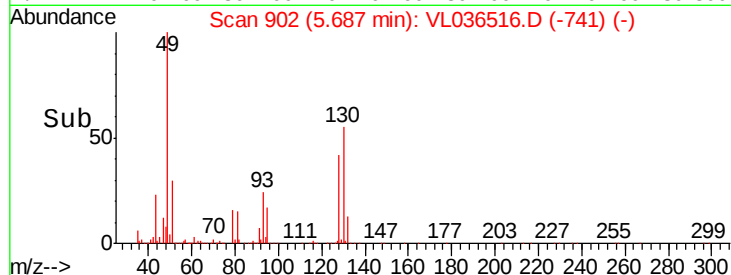
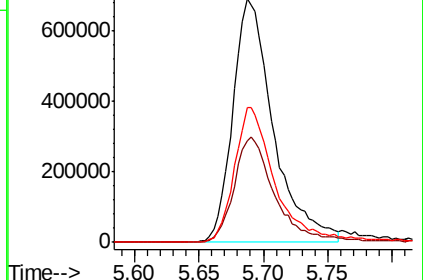
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.185 ppbv m

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL036516.D

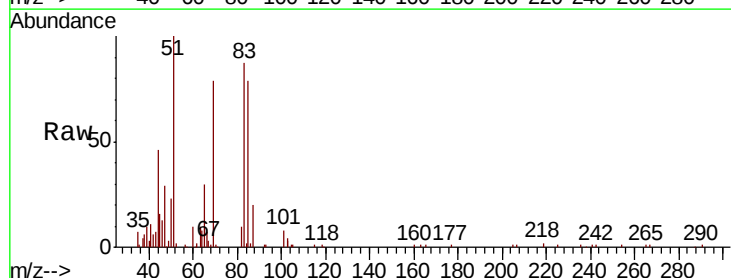
Acq: 26 Mar 2021 16:26

Tgt Ion: 85 Resp: 45773

Ion Ratio Lower Upper

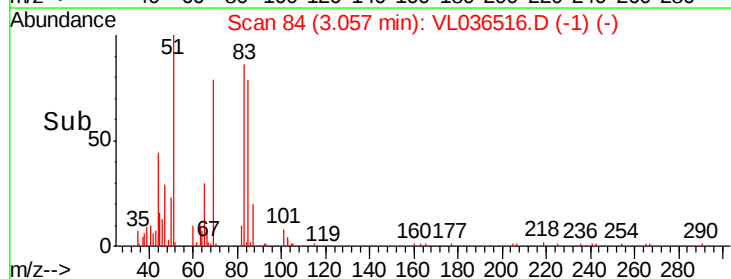
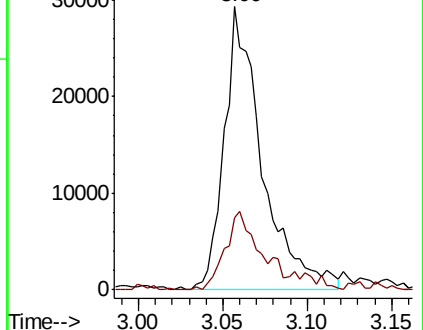
85 100

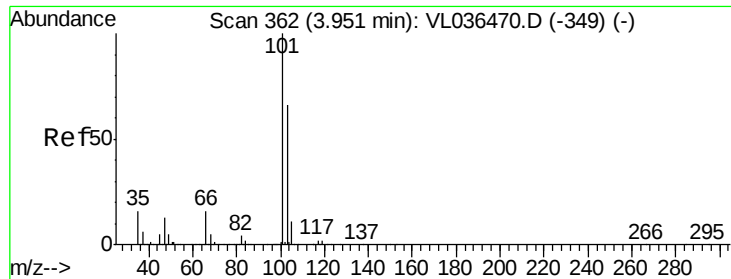
87 25.6 27.8 41.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





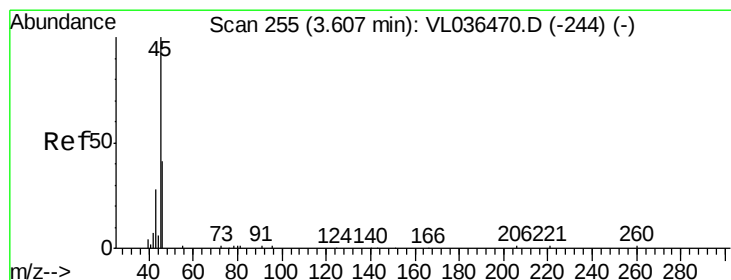
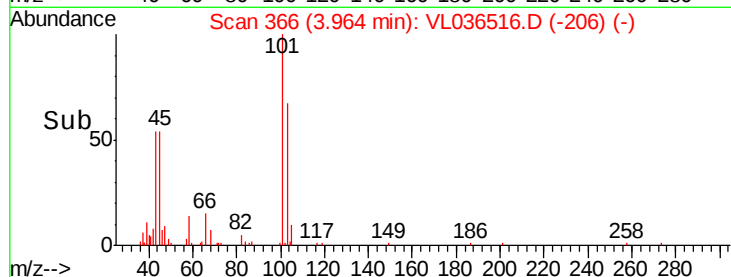
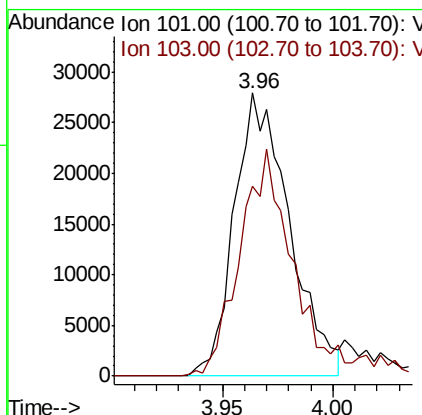
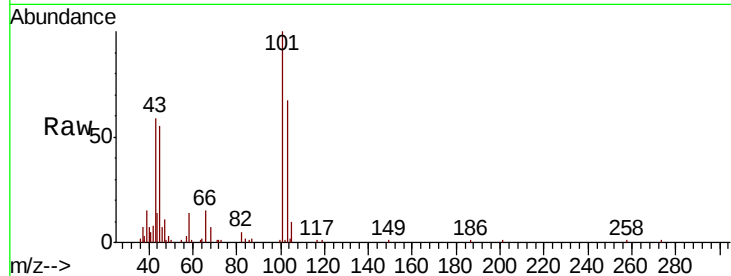
#11
 Trichlorofluoromethane
 Concen: 0.192 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. 0.01 min
 Lab File: VL036516.D
 Acq: 26 Mar 2021 16:26

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-8-RM-NETXT-TO-GR

Tot Ion	Ion	Ratio	Lower	Upper
101	100			
103	66.8	52.5	78.7	

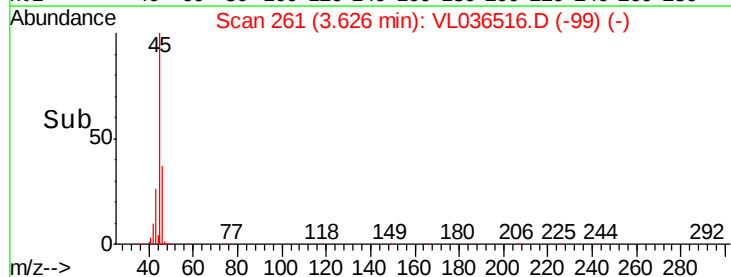
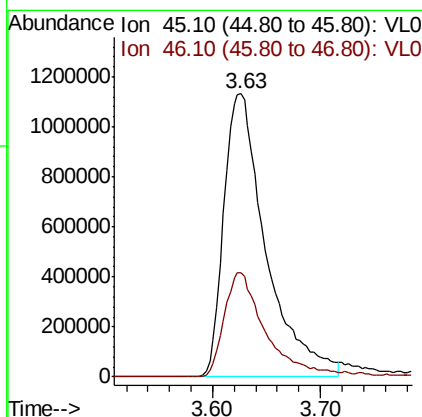
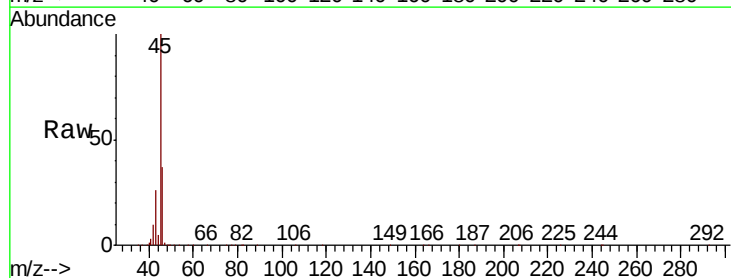
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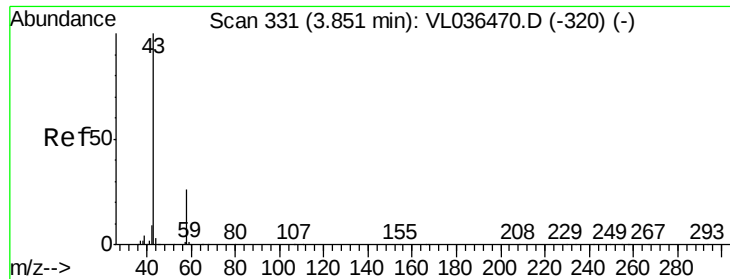
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#13
 Ethanol
 Concen: 286.708 ppbv
 RT: 3.63 min Scan# 261
 Delta R.T. 0.02 min
 Lab File: VL036516.D
 Acq: 26 Mar 2021 16:26

Tgt Ion	Ion	Ratio	Lower	Upper
45	100			
46	37.1	16.6	66.2	





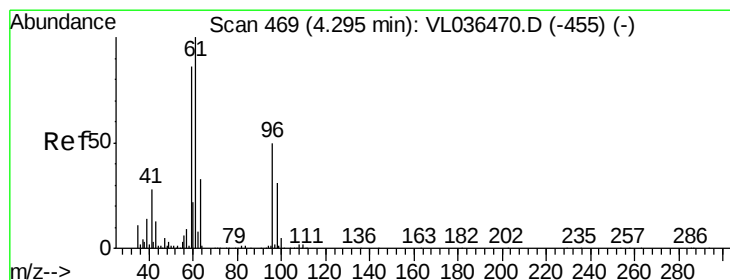
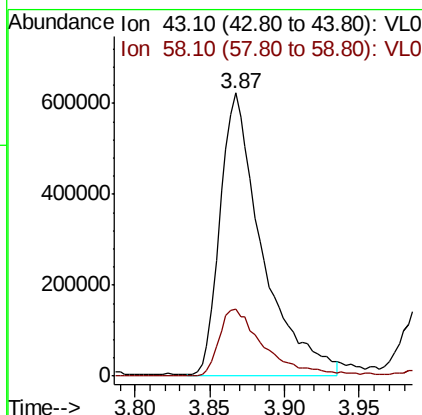
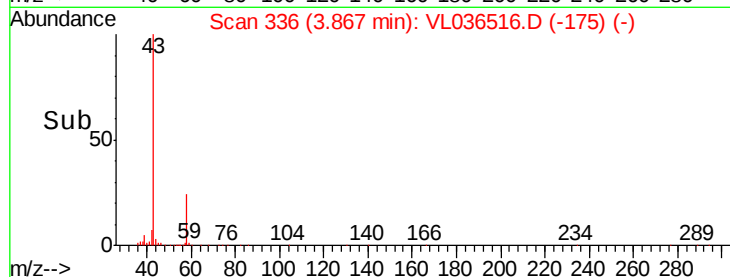
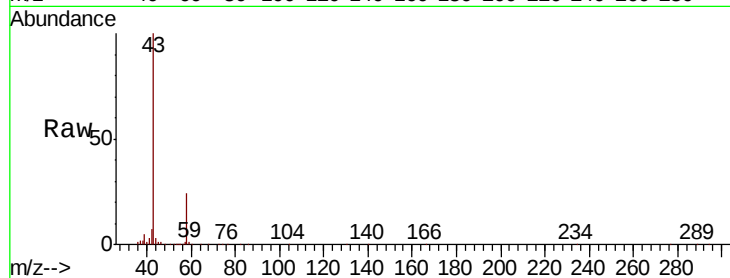
#15
Acetone
Concen: 8.215 ppbv m
RT: 3.87 min Scan# 336
Delta R.T. 0.02 min
Lab File: VL036516.D
Acq: 26 Mar 2021 16:26

Instrument :
MSVOA_L
ClientSampleId :
SS-8-RM-NETXT-TO-GR

Tot Ion: 43 Resp: 1226328
Ion Ratio Lower Upper
43 100
58 25.8 21.2 31.8

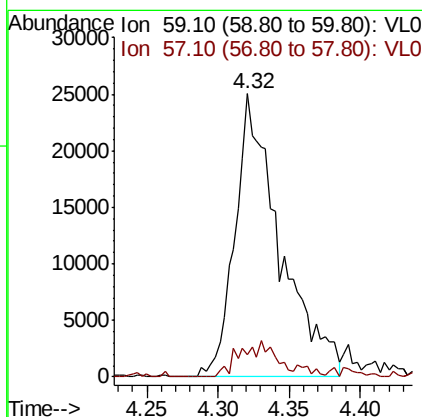
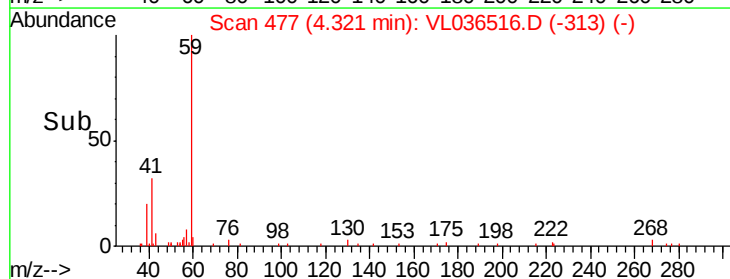
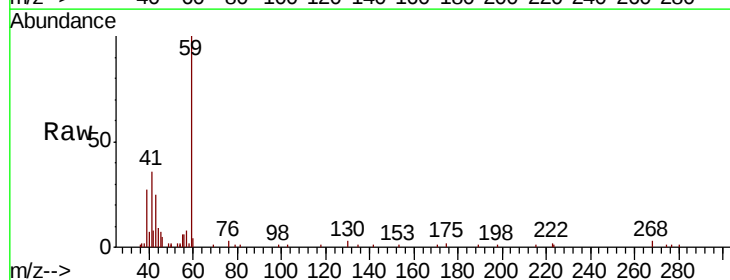
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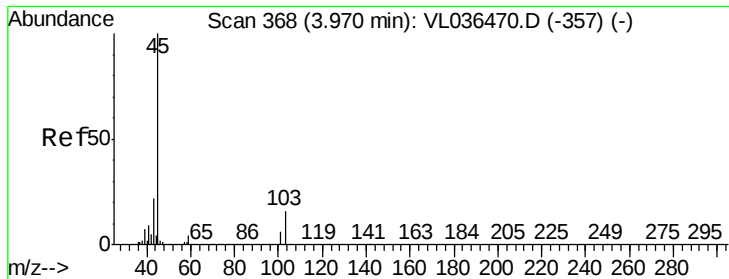
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#17
tert-Butyl alcohol
Concen: 0.421 ppbv m
RT: 4.32 min Scan# 477
Delta R.T. 0.03 min
Lab File: VL036516.D
Acq: 26 Mar 2021 16:26

Tgt Ion: 59 Resp: 54737
Ion Ratio Lower Upper
59 100
57 12.0 8.6 12.8





#19

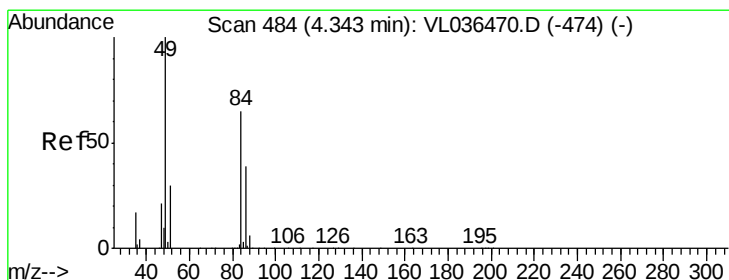
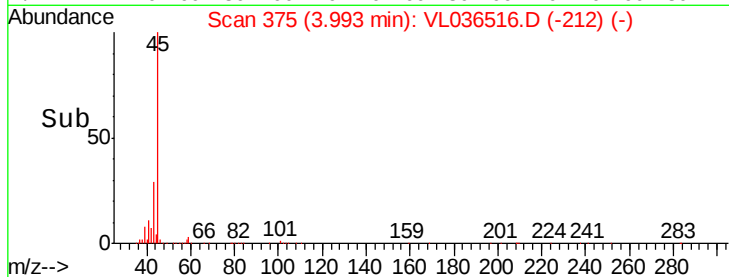
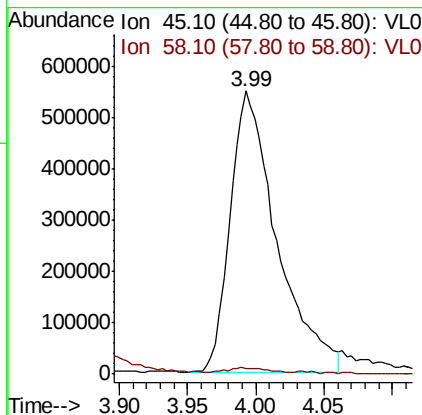
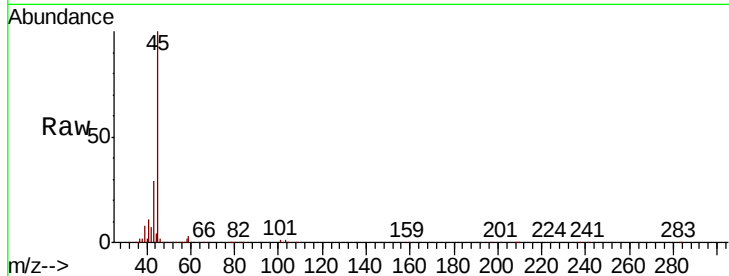
Isopropyl Alcohol
 Concen: 15.838 ppbv
 RT: 3.99 min Scan# 375
 Delta R.T. 0.02 min
 Lab File: VL036516.D
 Acq: 26 Mar 2021 16:26

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-8-RM-NETXT-TO-GR

Tot Ion: 45 Resp: 1300641
 Ion Ratio Lower Upper
 45 100
 58 3.0 2.9 4.3

Manual Integrations
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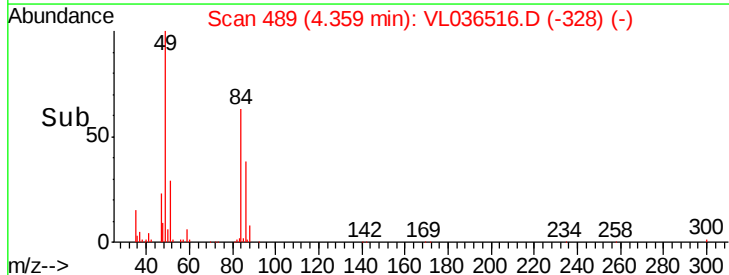
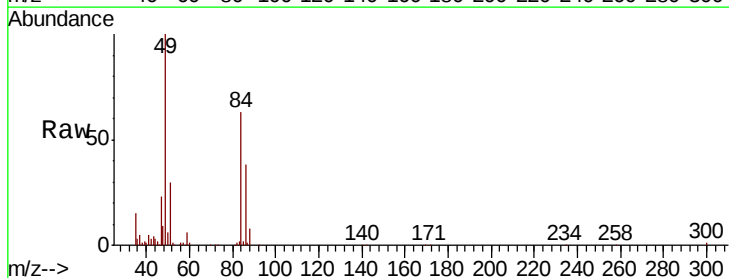
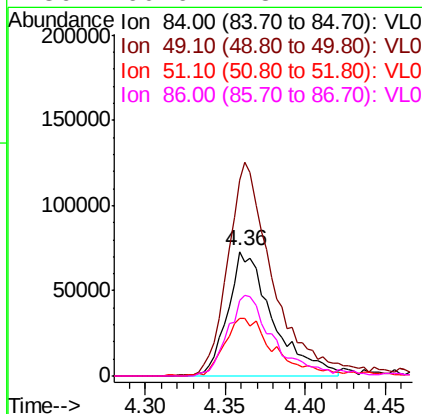
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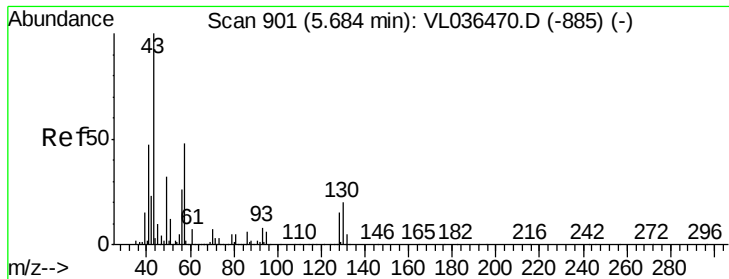


#20

Methylene Chloride
 Concen: 2.004 ppbv
 RT: 4.36 min Scan# 489
 Delta R.T. 0.02 min
 Lab File: VL036516.D
 Acq: 26 Mar 2021 16:26

Tgt Ion: 84 Resp: 140103
 Ion Ratio Lower Upper
 84 100
 49 157.3 122.9 184.3
 51 45.3 36.9 55.3
 86 60.6 48.2 72.4





#25

Ethyl Acetate

Concen: 1.656 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.02 min

Lab File: VL036516.D

Acq: 26 Mar 2021 16:26

Instrument :

MSVOA_L

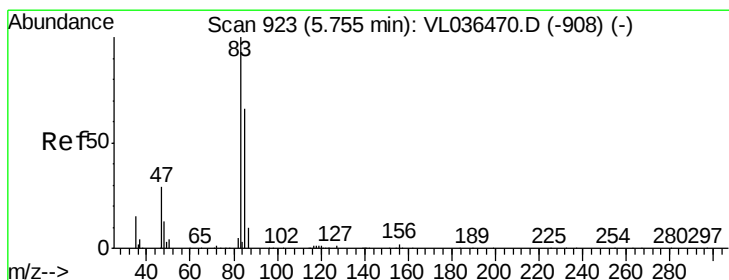
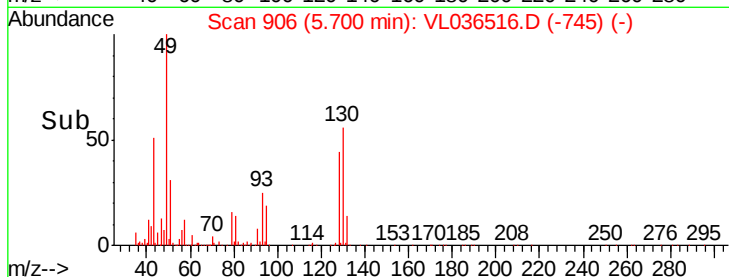
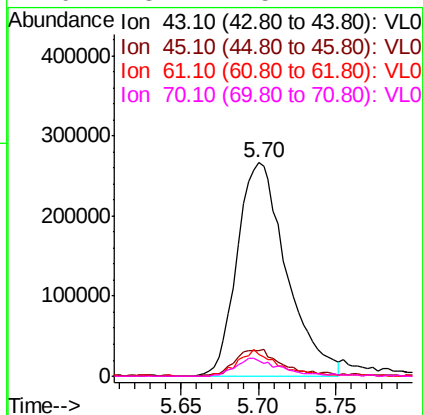
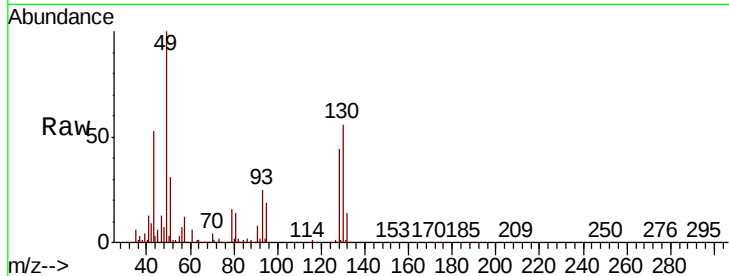
ClientSampleId :

SS-8-RM-NETXT-TO-GR

Tot Ion	Ratio	Lower	Upper
43	100		
45	12.4	7.9	11.9#
61	10.1	7.4	11.2
70	8.1	5.1	7.7#

Manual Integrations
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#29

Chloroform

Concen: 0.137 ppbv m

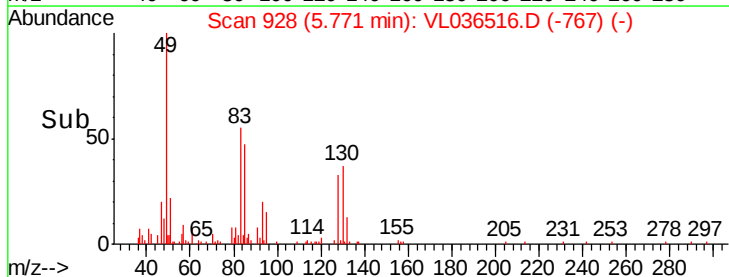
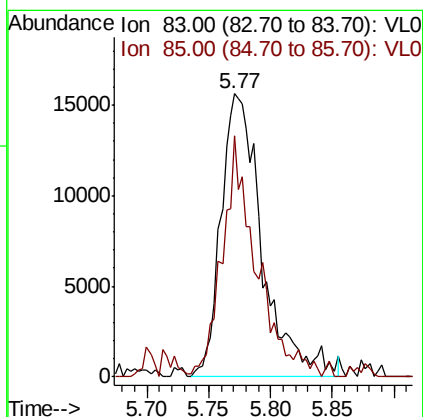
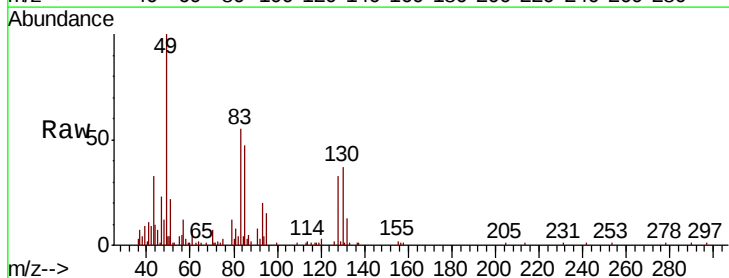
RT: 5.77 min Scan# 928

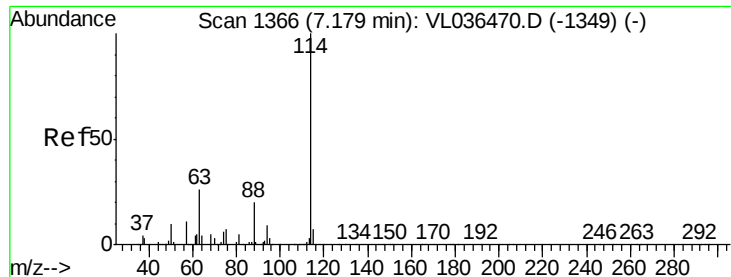
Delta R.T. 0.02 min

Lab File: VL036516.D

Acq: 26 Mar 2021 16:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	85.4	52.6	78.8#





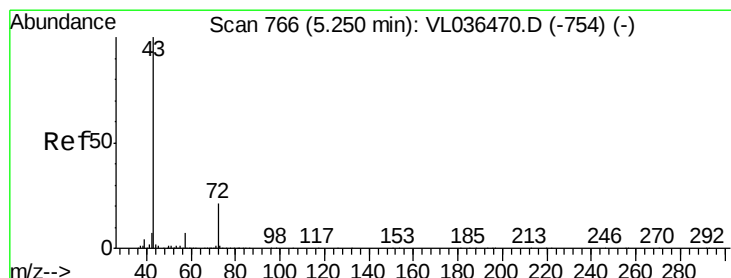
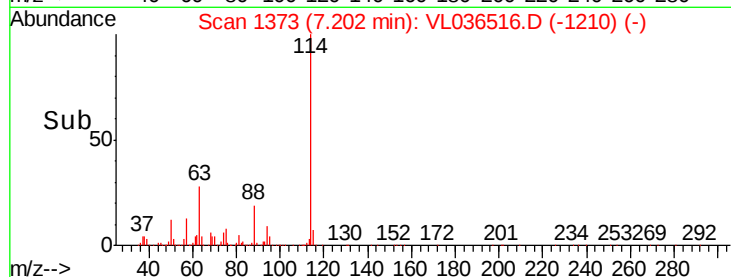
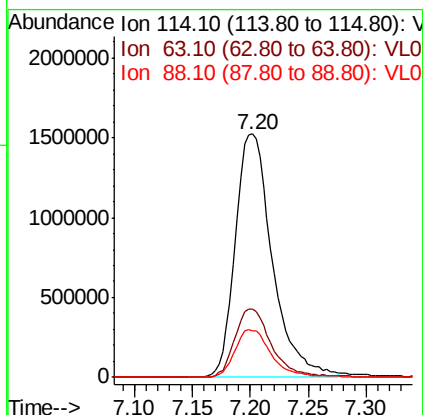
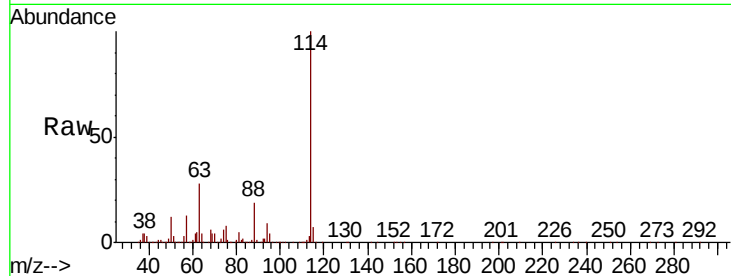
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1373
 Delta R.T. 0.02 min
 Lab File: VL036516.D
 Acq: 26 Mar 2021 16:26

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-8-RM-NETXT-TO-GR

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.5	22.4	33.6
88	19.6	15.4	23.0

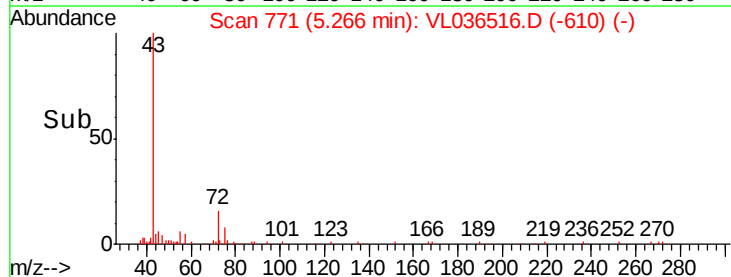
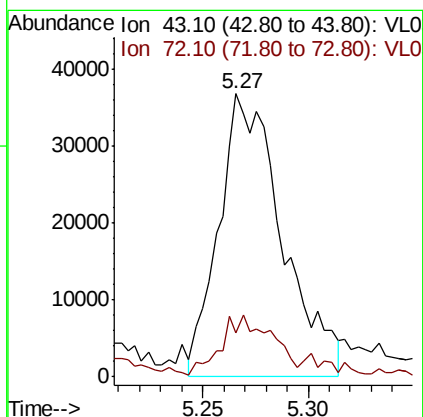
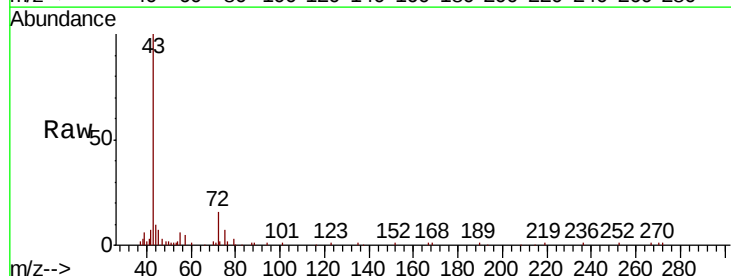
Manual Integrations
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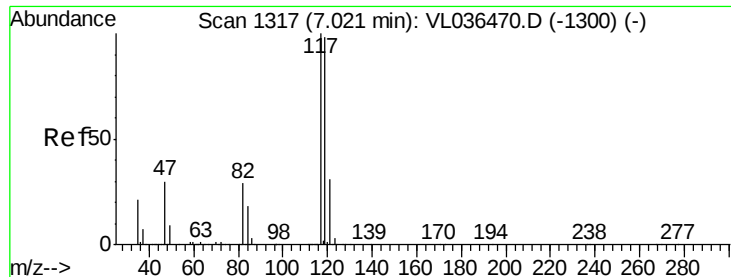
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#34
 2-Butanone
 Concen: 0.467 ppbv m
 RT: 5.27 min Scan# 771
 Delta R.T. 0.02 min
 Lab File: VL036516.D
 Acq: 26 Mar 2021 16:26

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.5	17.0	25.6





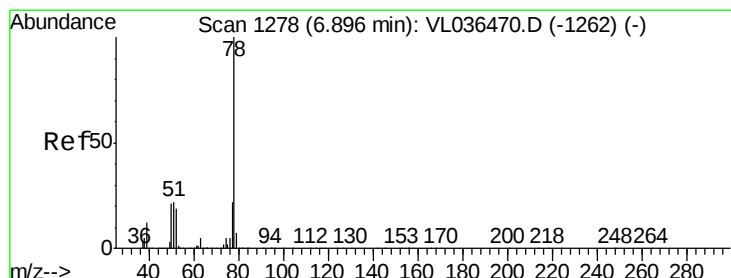
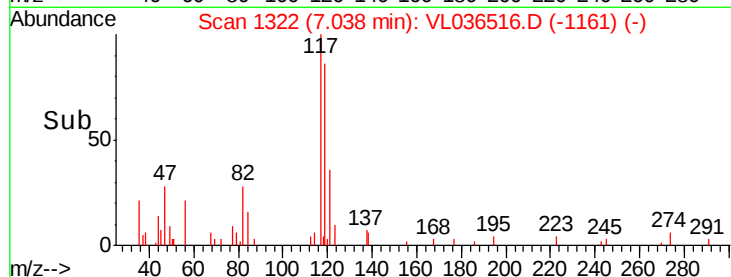
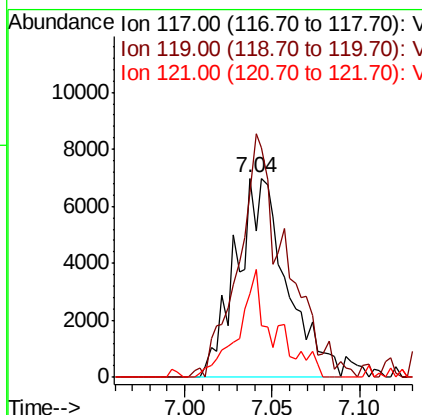
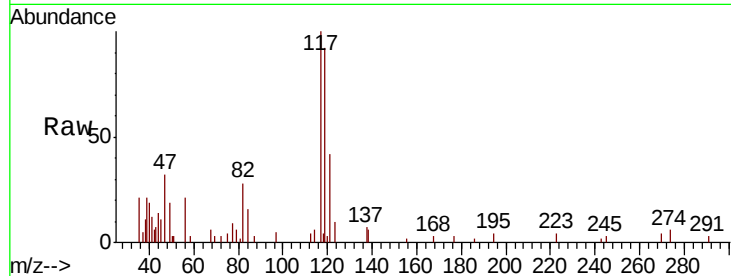
#35
Carbon Tetrachloride
Concen: 0.054 ppbv m
RT: 7.04 min Scan# 1322
Delta R.T. 0.02 min
Lab File: VL036516.D
Acq: 26 Mar 2021 16:26

Instrument :
MSVOA_L
ClientSampleId :
SS-8-RM-NETXT-TO-GR

Tot Ion	Ratio	Lower	Upper
117	100		
119	92.5	78.2	117.2
121	42.0	24.5	36.7#

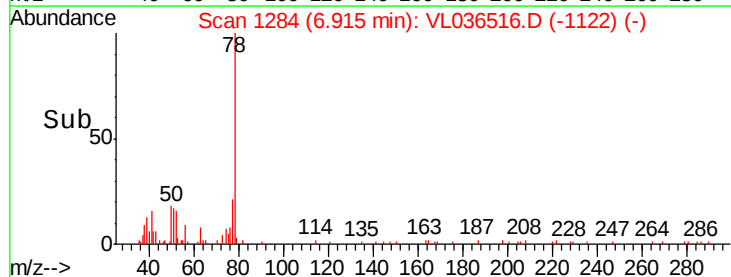
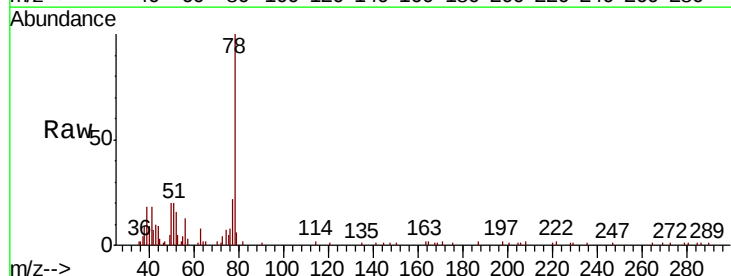
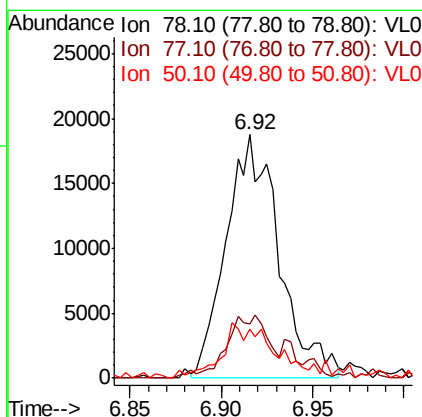
Manual Integrations
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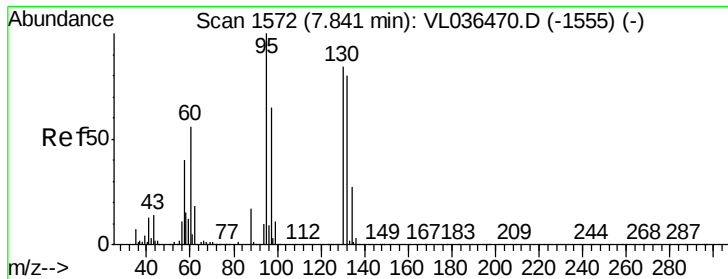
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3/29/2021 4:39:21 PM



#36
Benzene
Concen: 0.121 ppbv m
RT: 6.92 min Scan# 1284
Delta R.T. 0.02 min
Lab File: VL036516.D
Acq: 26 Mar 2021 16:26

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.4	18.0	27.0
50	19.9	16.5	24.7





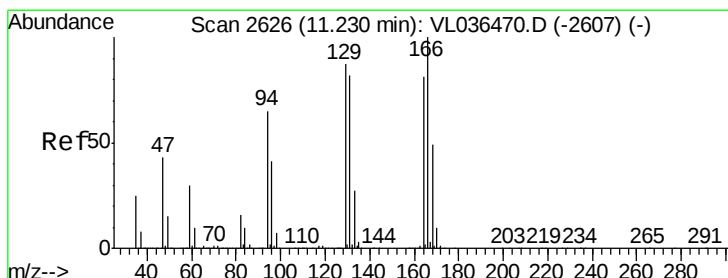
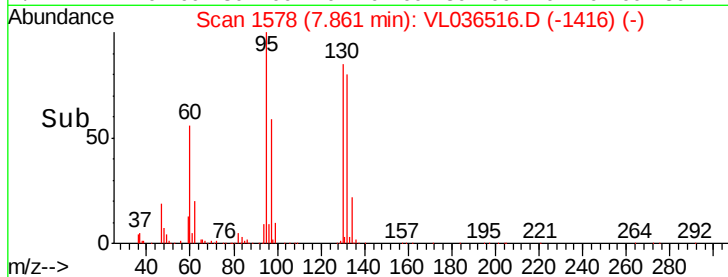
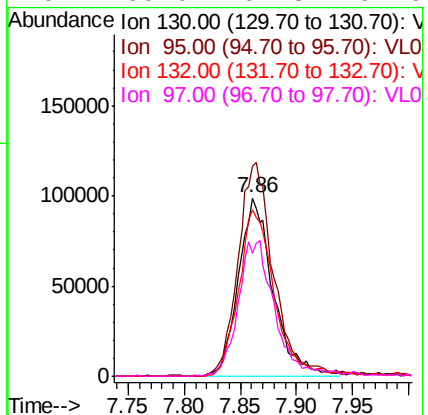
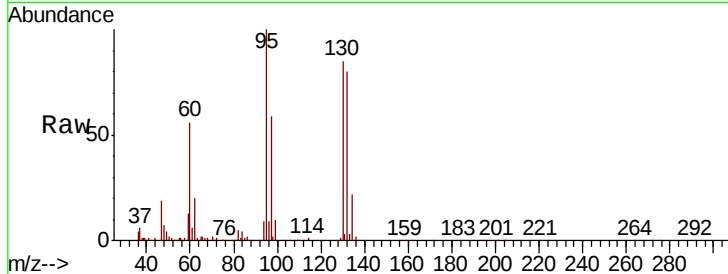
#38
 Trichloroethene
 Concen: 1.749 ppbv m
 RT: 7.86 min Scan# 1578
 Delta R.T. 0.02 min
 Lab File: VL036516.D
 Acq: 26 Mar 2021 16:26

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-8-RM-NETXT-TO-GR

Tot Ion	Ratio	Lower	Upper
130	100		
95	117.8	95.7	143.5
132	93.7	76.2	114.4
97	69.0	61.8	92.6

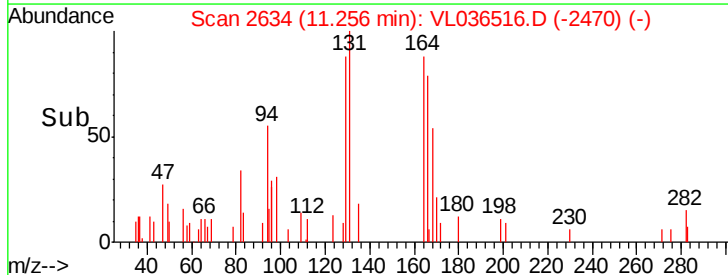
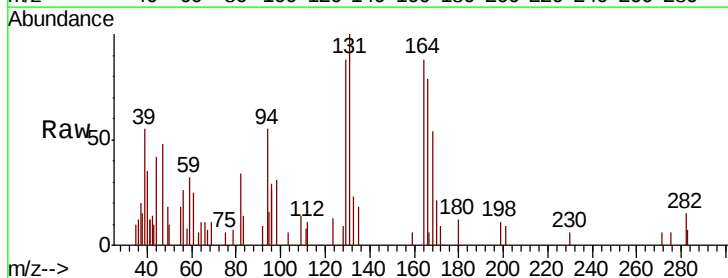
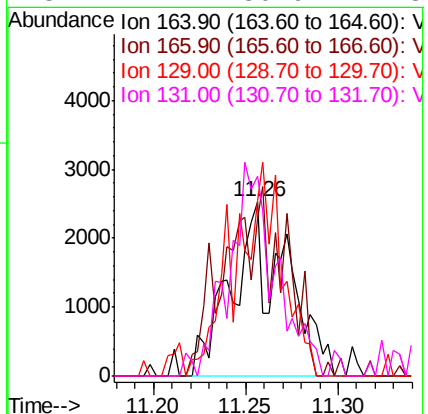
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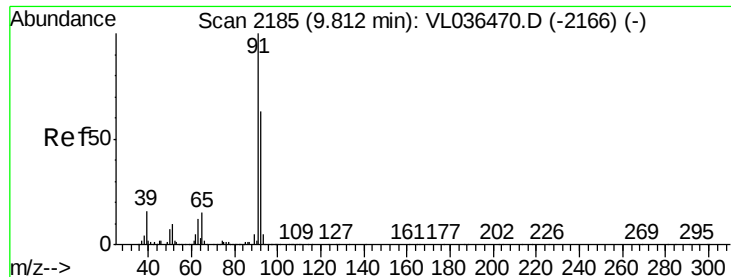
MMDadoda
 3/29/2021 4:39:21 PM



#52
 Tetrachloroethene
 Concen: 0.045 ppbv m
 RT: 11.26 min Scan# 2634
 Delta R.T. 0.03 min
 Lab File: VL036516.D
 Acq: 26 Mar 2021 16:26

Tgt Ion	Ratio	Lower	Upper
164	100		
166	90.3	98.3	147.5#
129	100.7	85.8	128.8
131	114.2	80.9	121.3





#53

Toluene

Concen: 0.412 ppbv

RT: 9.84 min Scan# 2194

Delta R.T. 0.03 min

Lab File: VL036516.D

Acq: 26 Mar 2021 16:26

Instrument :

MSVOA_L

ClientSampleId :

SS-8-RM-NETXT-TO-GR

Tot Ion: 91 Resp: 136780

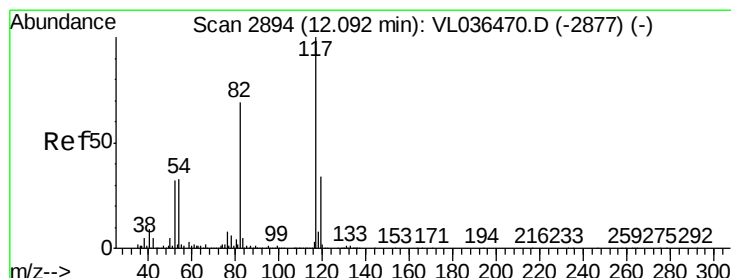
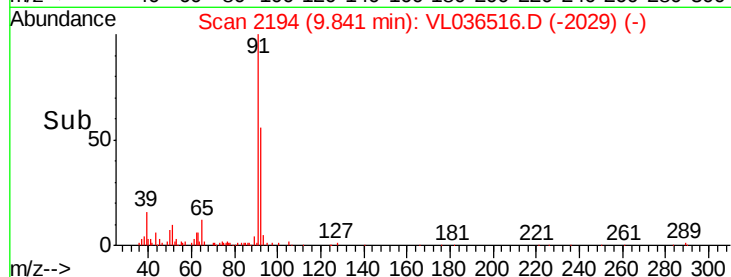
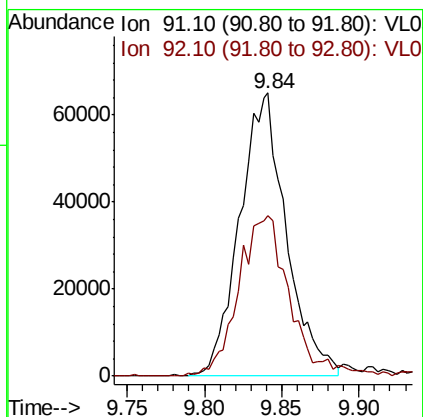
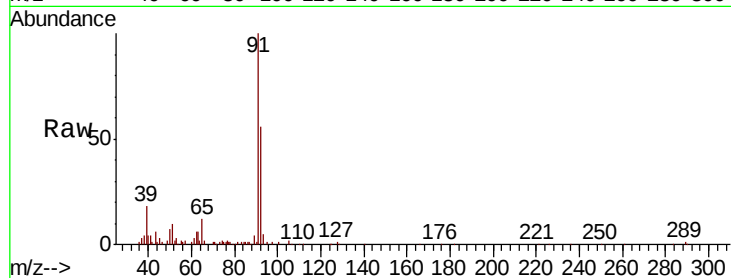
Ion Ratio Lower Upper

91 100

92 62.1 48.8 73.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2902

Delta R.T. 0.03 min

Lab File: VL036516.D

Acq: 26 Mar 2021 16:26

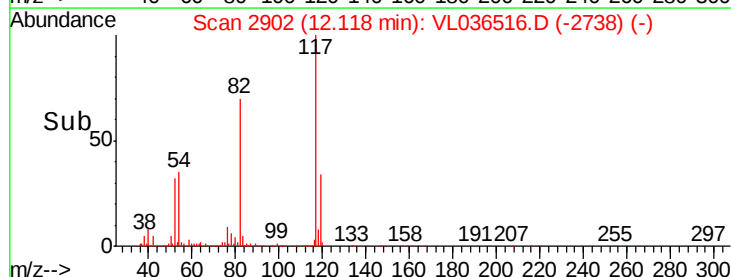
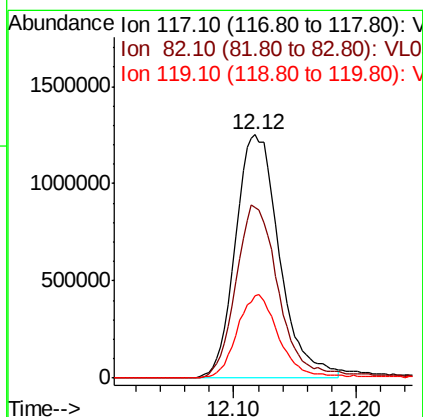
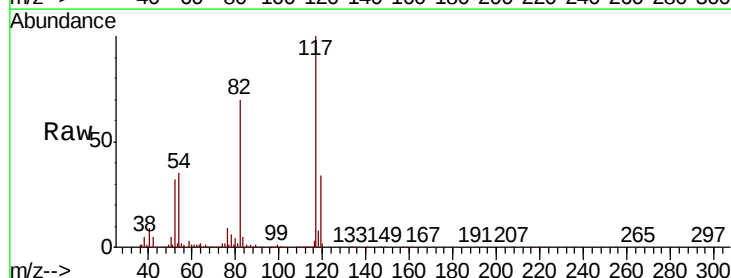
Tgt Ion: 117 Resp: 3105236

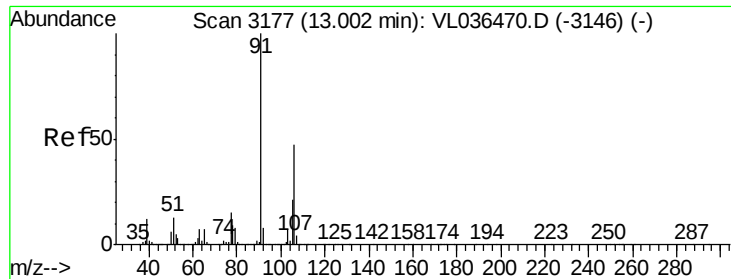
Ion Ratio Lower Upper

117 100

82 72.7 57.4 86.0

119 33.9 47.4 71.0#





#59

m/p-Xylene

Concen: 0.179 ppbv m

RT: 13.01 min Scan# 3178

Delta R.T. 0.00 min

Lab File: VL036516.D

Acq: 26 Mar 2021 16:26

Instrument :

MSVOA_L

ClientSampleId :

SS-8-RM-NETXT-TO-GR

Tot Ion: 91 Resp: 70715

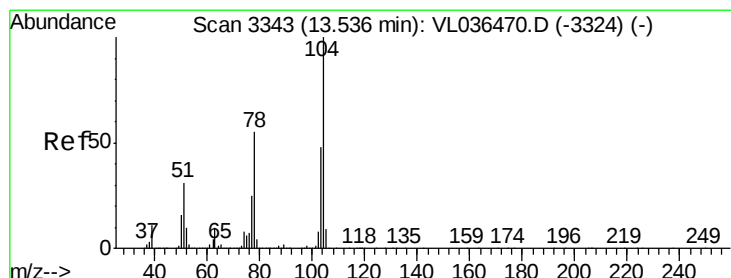
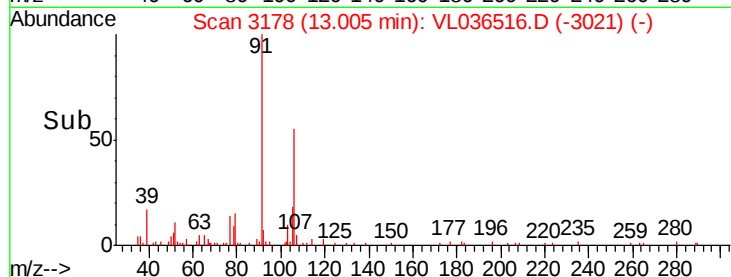
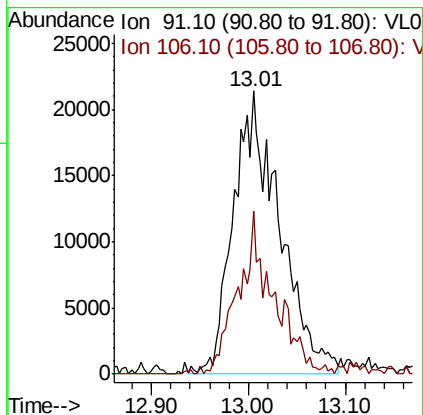
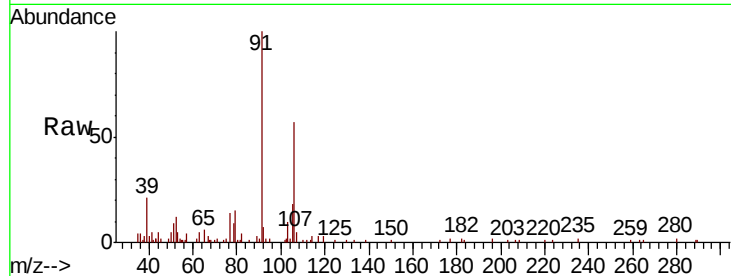
Ion Ratio Lower Upper

91 100

106 0.0 35.3 52.9#

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#61

Styrene

Concen: 0.123 ppbv m

RT: 13.57 min Scan# 3354

Delta R.T. 0.04 min

Lab File: VL036516.D

Acq: 26 Mar 2021 16:26

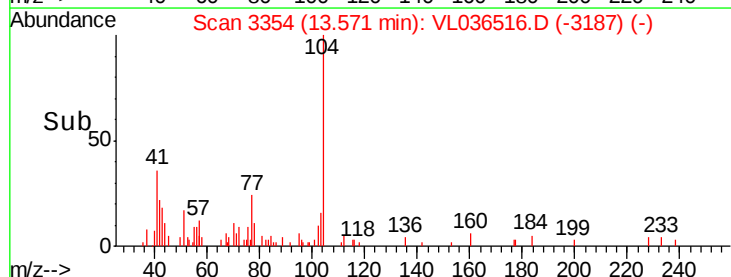
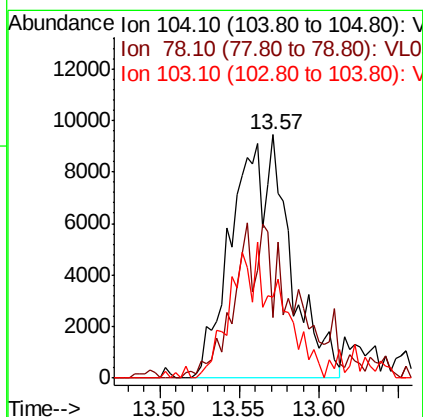
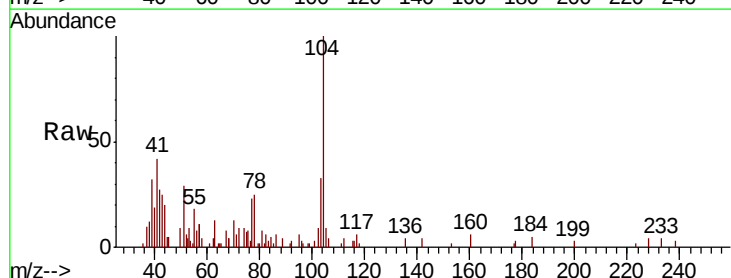
Tgt Ion: 104 Resp: 23544

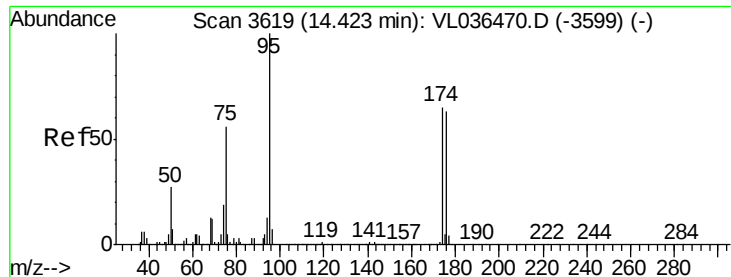
Ion Ratio Lower Upper

104 100

78 65.2 43.8 65.8

103 47.5 38.3 57.5





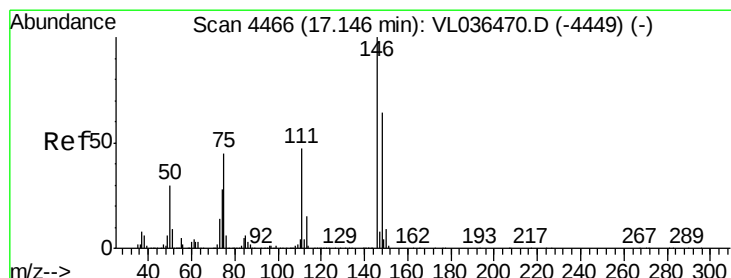
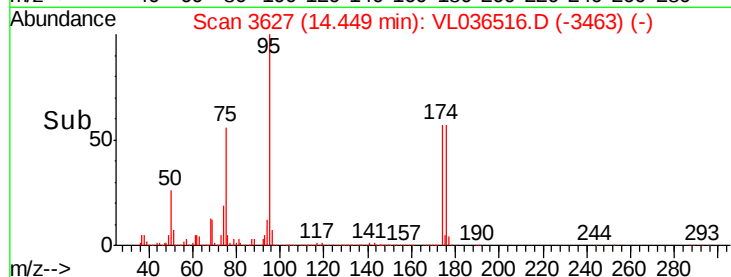
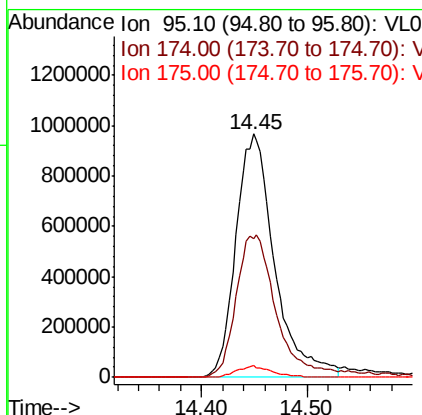
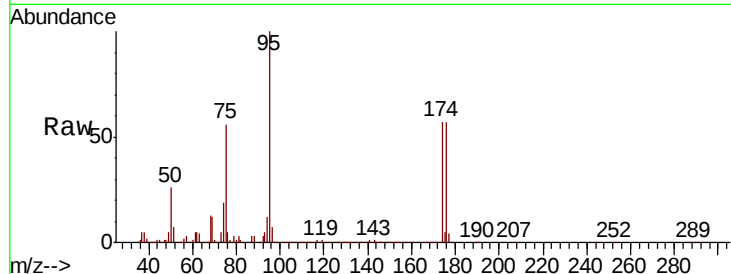
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.964 ppbv
 RT: 14.45 min Scan# 3627
 Delta R.T. 0.03 min
 Lab File: VL036516.D
 Acq: 26 Mar 2021 16:26

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-8-RM-NETXT-TO-GR

Tot Ion: 95 Resp: 2466048
 Ion Ratio Lower Upper
 95 100
 174 63.7 51.0 76.6
 175 4.4 3.9 5.9

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#76
 1,4-Dichlorobenzene
 Concen: 0.266 ppbv m
 RT: 17.17 min Scan# 4473
 Delta R.T. 0.02 min
 Lab File: VL036516.D
 Acq: 26 Mar 2021 16:26

Tgt Ion: 146 Resp: 62061
 Ion Ratio Lower Upper
 146 100
 111 0.0 24.3 72.8#
 148 70.6 33.0 98.9

