

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032621\
 Data File : VL036514.D
 Acq On : 26 Mar 2021 15:01
 Operator : SY/AP
 Sample : M1760-04
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-6-CR-104

Manual Integrations
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Quant Time: Mar 28 21:02:27 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	1500869	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.21	114	3396049	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.12	117	3183465	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	2471645	9.74	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	43374m	0.177	ppbv	
4) Chloromethane	3.16	50	34516	0.348	ppbv	100
9) Propene	3.03	41	47033m	0.526	ppbv	
11) Trichlorofluoromethane	3.97	101	54299	0.218	ppbv	97
13) Ethanol	3.63	45	3218401	302.323	ppbv	94
15) Acetone	3.87	43	1422548	9.630	ppbv	98
17) tert-Butyl alcohol	4.34	59	72626m	0.565	ppbv	
19) Isopropyl Alcohol	4.00	45	1252894	15.418	ppbv #	97
20) Methylene Chloride	4.37	84	226838m	3.280	ppbv	
25) Ethyl Acetate	5.70	43	781710	2.226	ppbv #	95
29) Chloroform	5.77	83	30536m	0.117	ppbv	
31) cis-1,2-Dichloroethene	5.58	61	30022m	0.190	ppbv	
32) 1,1,1-Trichloroethane	6.53	97	7577m	0.029	ppbv	
34) 2-Butanone	5.27	43	127838	0.771	ppbv	97
35) Carbon Tetrachloride	7.05	117	16270m	0.062	ppbv	
36) Benzene	6.92	78	62256	0.199	ppbv #	89
38) Trichloroethene	7.87	130	262687m	2.155	ppbv	
52) Tetrachloroethene	11.25	164	5134m	0.045	ppbv	
53) Toluene	9.84	91	181210m	0.543	ppbv	
59) m/p-Xylene	13.00	91	96097m	0.238	ppbv	
60) o-Xylene	13.73	91	38080m	0.097	ppbv	
61) Styrene	13.57	104	45058m	0.229	ppbv	
76) 1,4-Dichlorobenzene	17.17	146	90396m	0.378	ppbv	

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

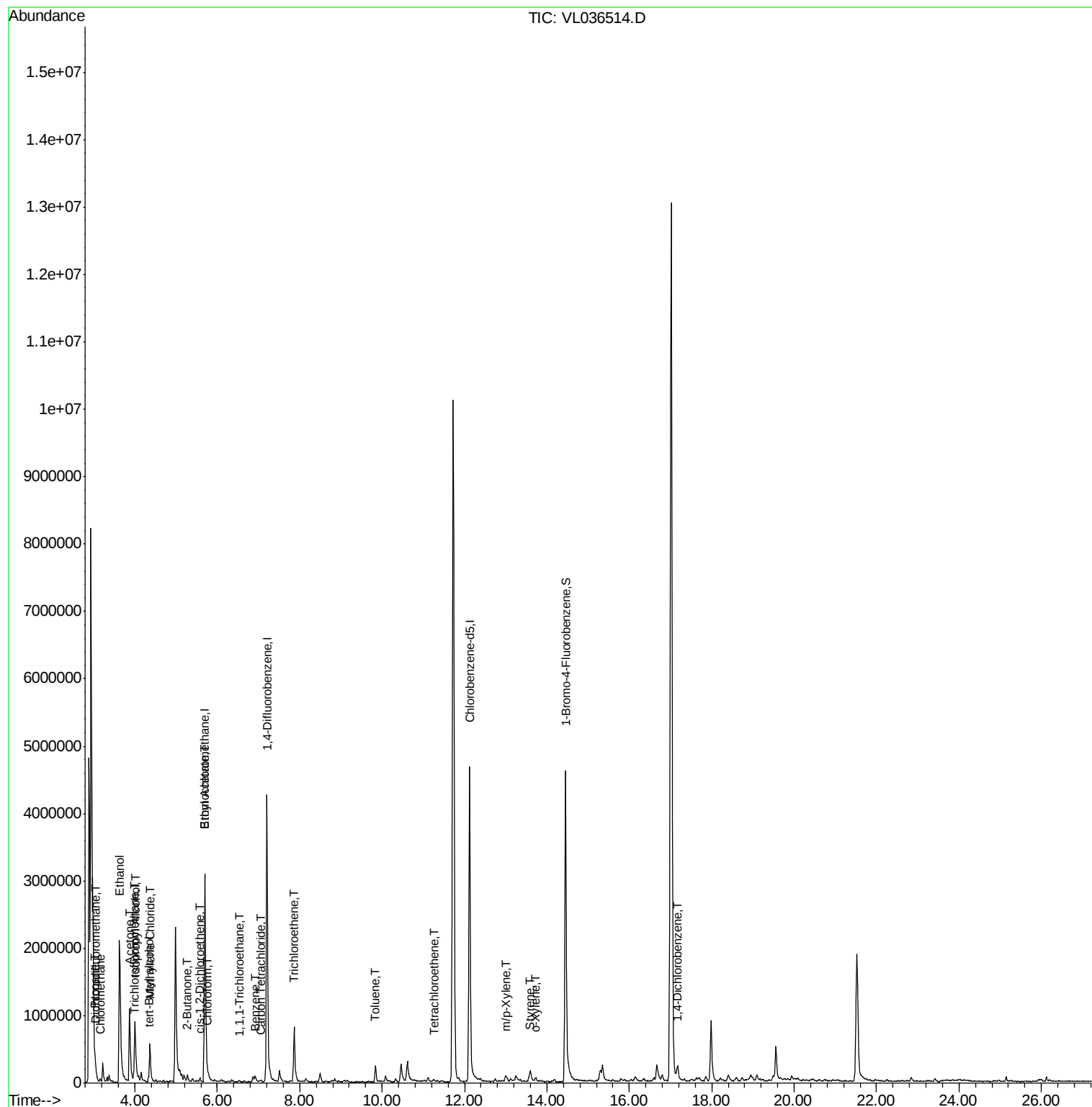
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032621\
Data File : VL036514.D
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Quant Time: Mar 28 21:02:27 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.02 min

Lab File: VL036514.D

Acq: 26 Mar 2021 15:01

Instrument :

MSVOA_L

ClientSampleId :

SS-6-CR-104

Tot Ion: 49 Resp: 1500869

Ion Ratio Lower Upper

49 100

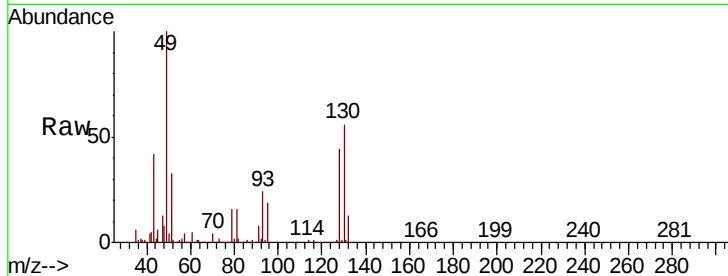
128 44.3 23.5 70.6

130 57.6 29.1 87.4

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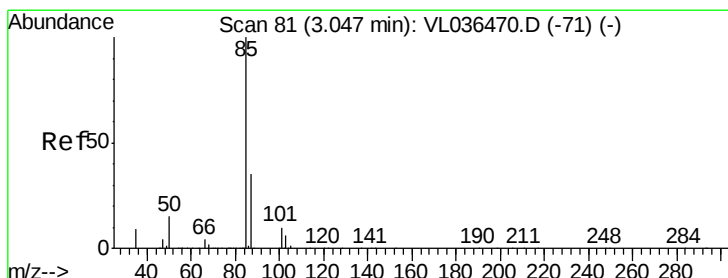
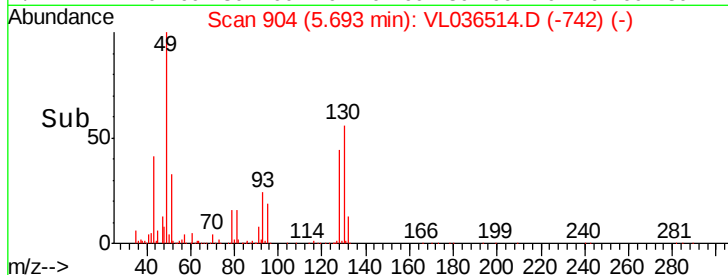
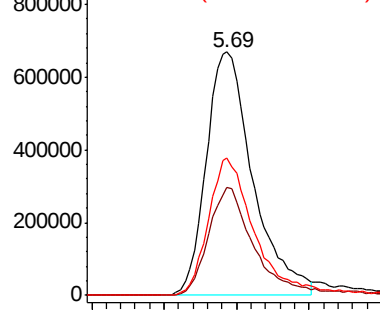
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.177 ppbv m

RT: 3.06 min Scan# 85

Delta R.T. 0.01 min

Lab File: VL036514.D

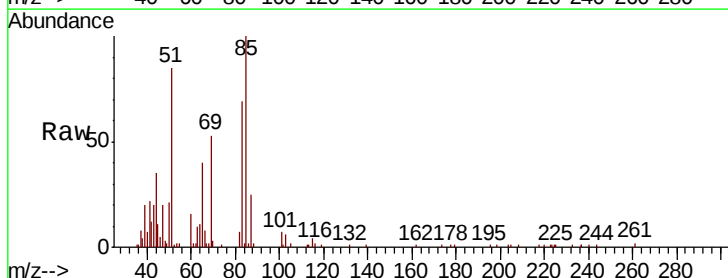
Acq: 26 Mar 2021 15:01

Tgt Ion: 85 Resp: 43374

Ion Ratio Lower Upper

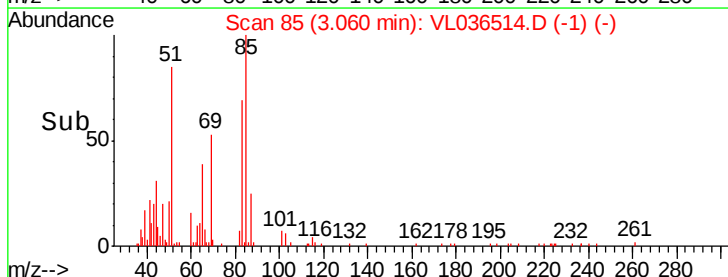
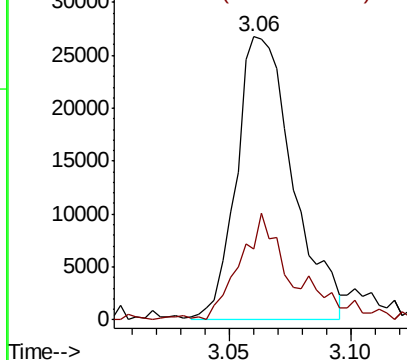
85 100

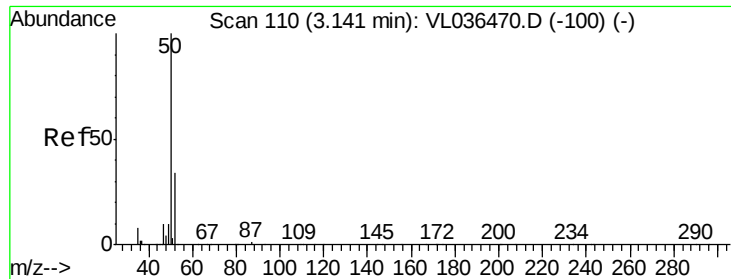
87 24.9 27.8 41.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.348 ppbv

RT: 3.16 min Scan# 115

Delta R.T. 0.02 min

Lab File: VL036514.D

Acq: 26 Mar 2021 15:01

Instrument :

MSVOA_L

ClientSampleId :

SS-6-CR-104

Tot Ion: 50 Resp: 34516

Ion Ratio Lower Upper

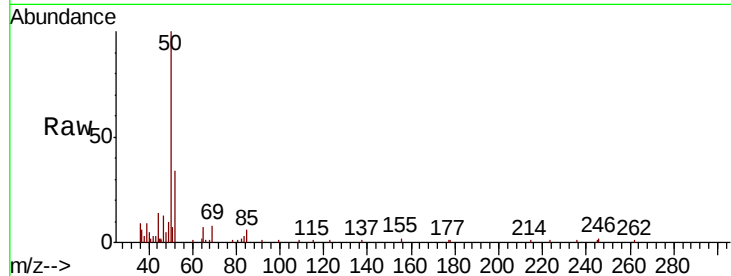
50 100

52 33.5 27.0 40.6

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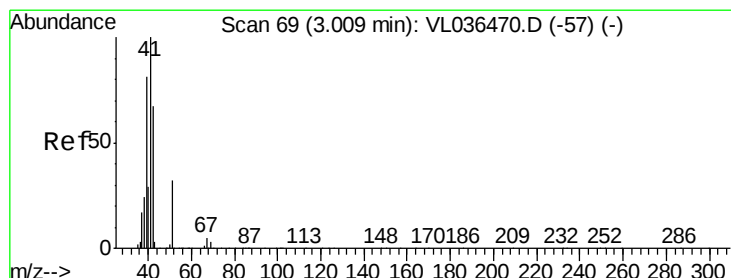
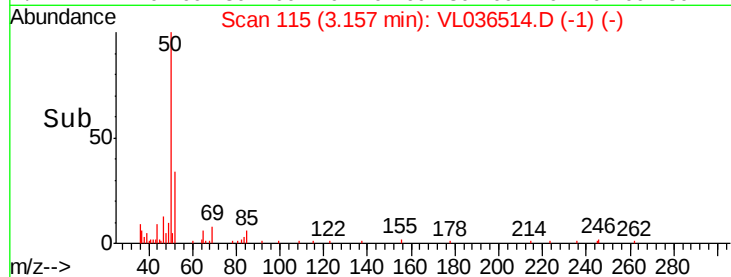
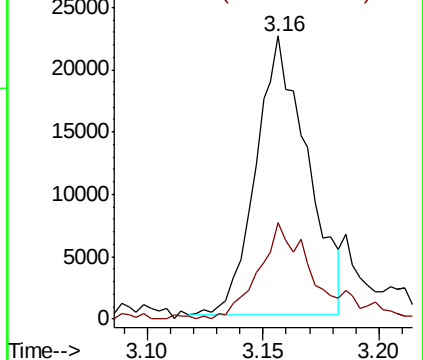
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Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.526 ppbv m

RT: 3.03 min Scan# 76

Delta R.T. 0.02 min

Lab File: VL036514.D

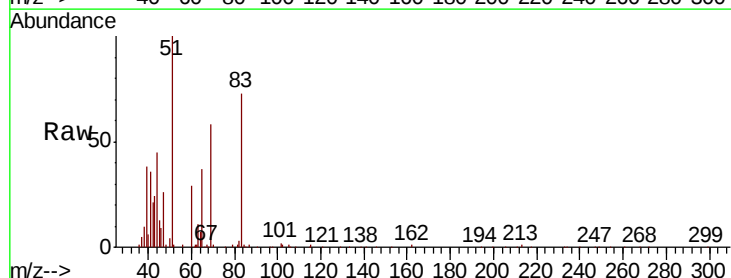
Acq: 26 Mar 2021 15:01

Tgt Ion: 41 Resp: 47033

Ion Ratio Lower Upper

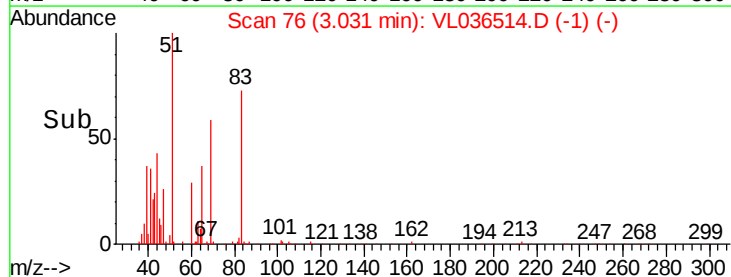
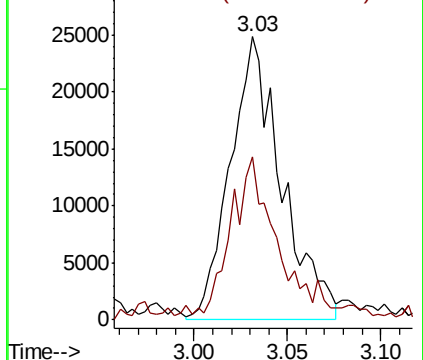
41 100

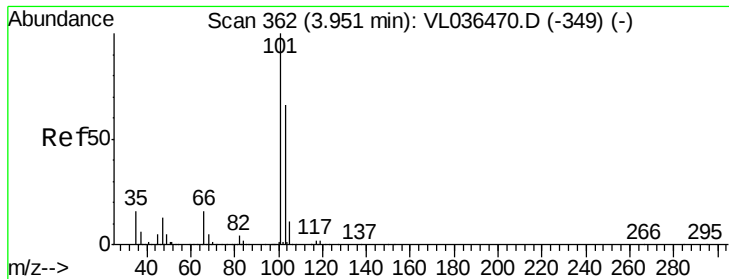
42 57.5 57.0 85.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#11

Trichlorofluoromethane

Concen: 0.218 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.02 min

Lab File: VL036514.D

Acq: 26 Mar 2021 15:01

Instrument :

MSVOA_L

ClientSampleId :

SS-6-CR-104

Tot Ion:101 Resp: 54299

Ion Ratio Lower Upper

101 100

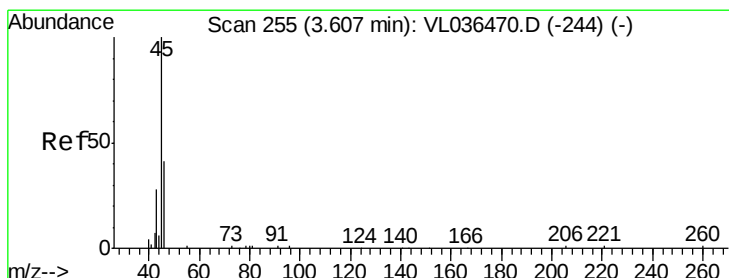
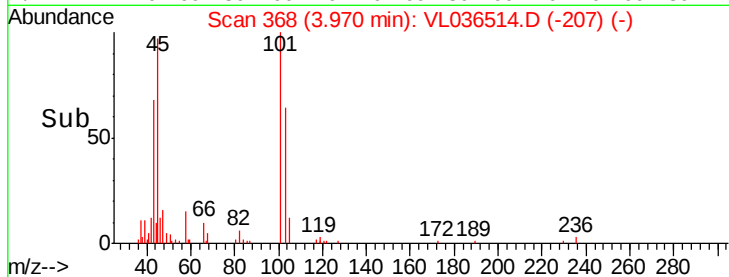
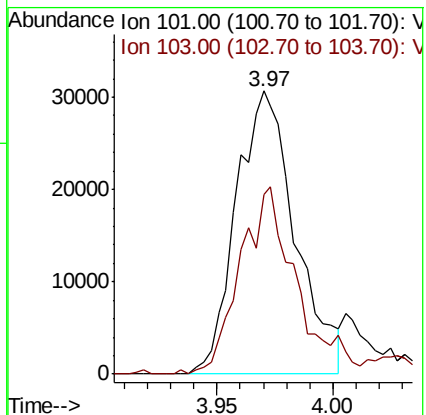
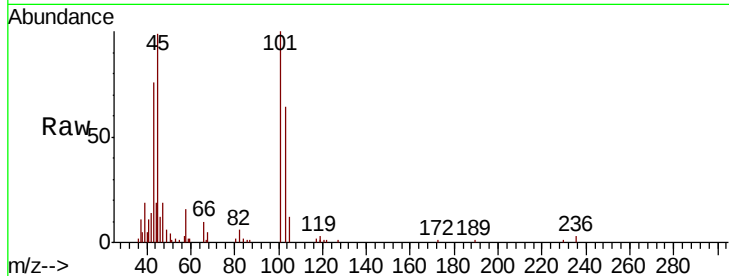
103 63.5 52.5 78.7

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#13

Ethanol

Concen: 302.323 ppbv

RT: 3.63 min Scan# 261

Delta R.T. 0.02 min

Lab File: VL036514.D

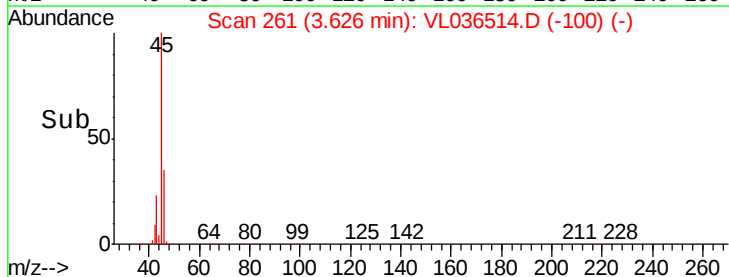
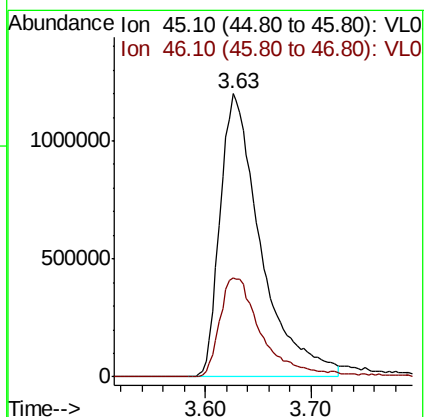
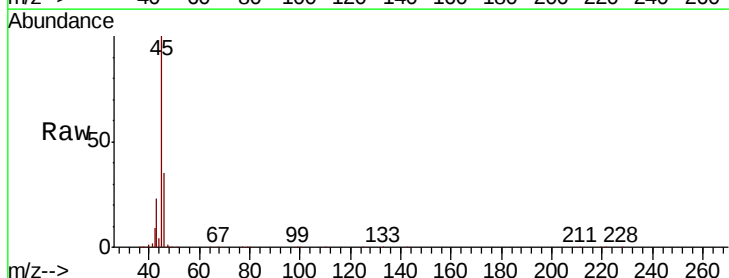
Acq: 26 Mar 2021 15:01

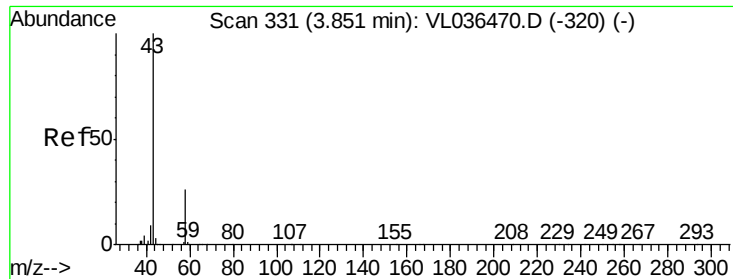
Tgt Ion: 45 Resp: 3218401

Ion Ratio Lower Upper

45 100

46 37.4 16.6 66.2





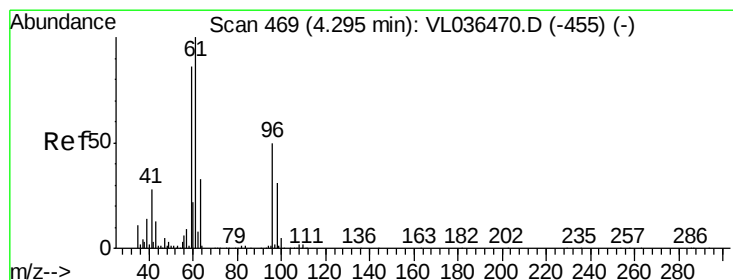
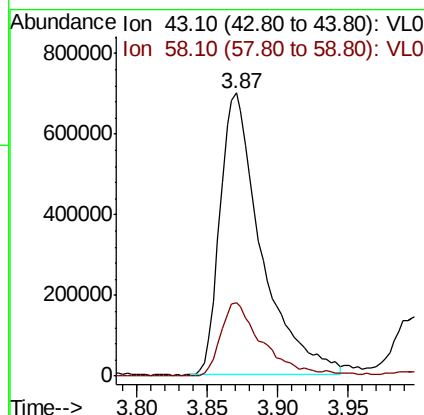
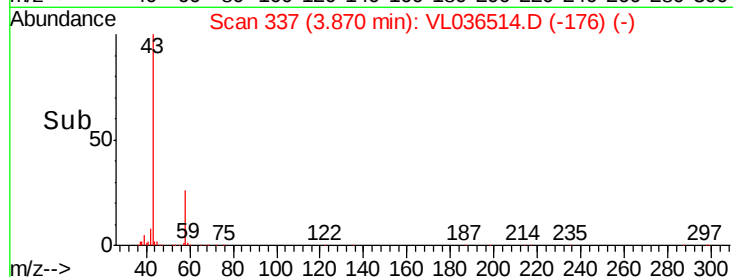
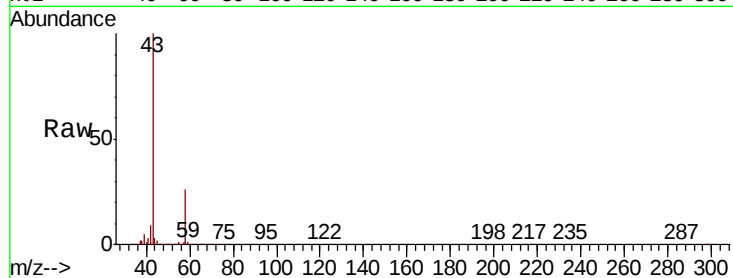
#15
Acetone
Concen: 9.630 ppbv
RT: 3.87 min Scan# 337
Delta R.T. 0.02 min
Lab File: VL036514.D
Acq: 26 Mar 2021 15:01

Instrument :
MSVOA_L
ClientSampleId :
SS-6-CR-104

Tot Ion	Ratio	Lower	Upper
43	100		
58	27.4	21.2	31.8

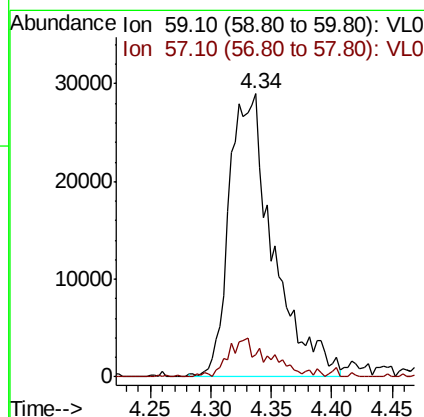
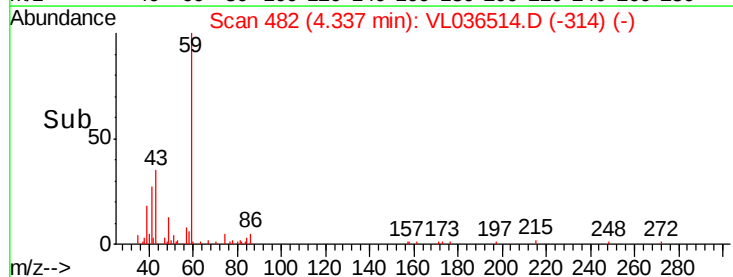
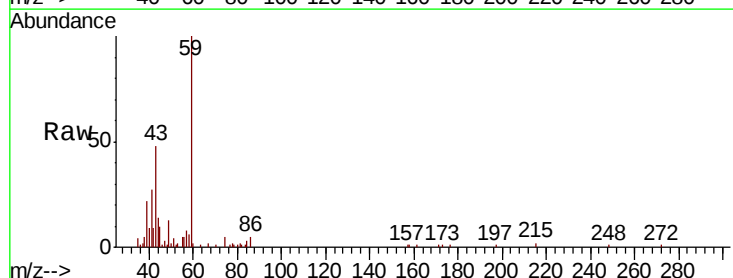
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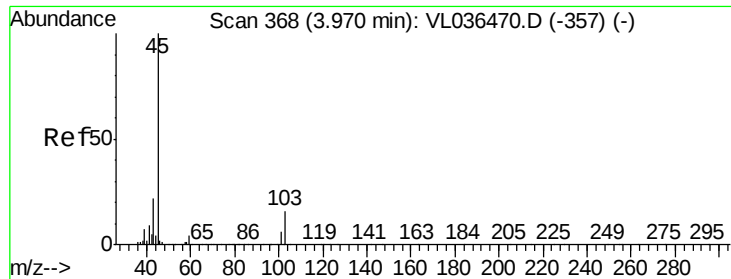
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#17
tert-Butyl alcohol
Concen: 0.565 ppbv m
RT: 4.34 min Scan# 482
Delta R.T. 0.04 min
Lab File: VL036514.D
Acq: 26 Mar 2021 15:01

Tgt Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.6	12.8#





#19

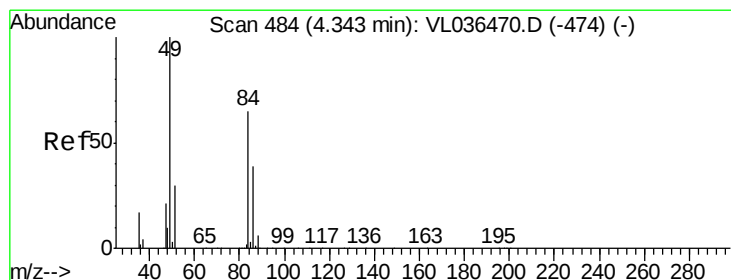
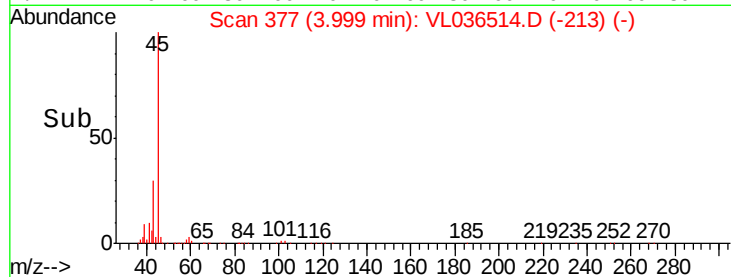
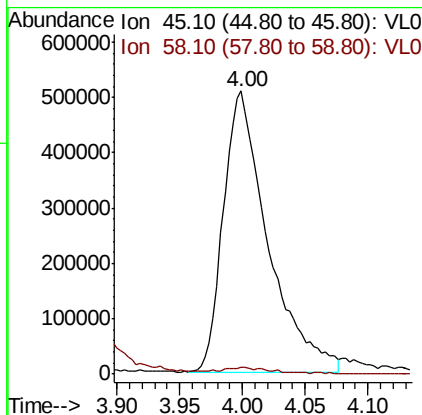
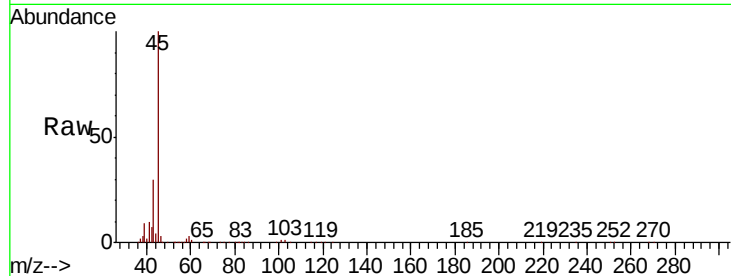
Isopropyl Alcohol
 Concen: 15.418 ppbv
 RT: 4.00 min Scan# 377
 Delta R.T. 0.03 min
 Lab File: VL036514.D
 Acq: 26 Mar 2021 15:01

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-6-CR-104

Tot Ion: 45 Resp: 1252894
 Ion Ratio Lower Upper
 45 100
 58 2.5 2.9 4.3#

Manual Integrations
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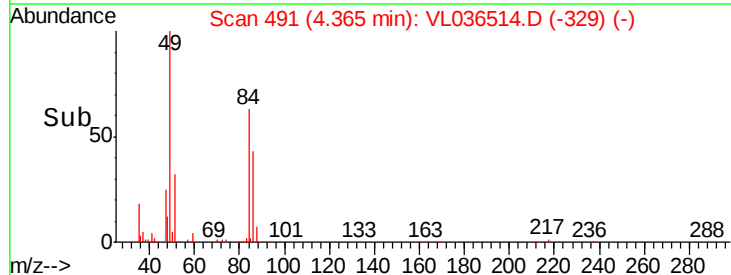
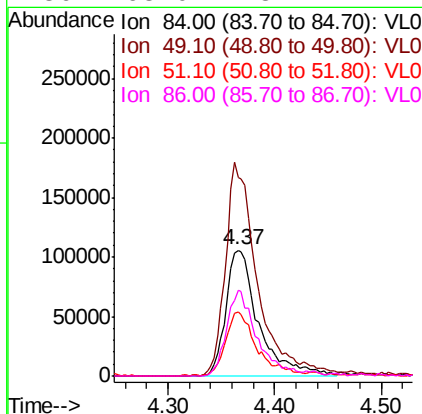
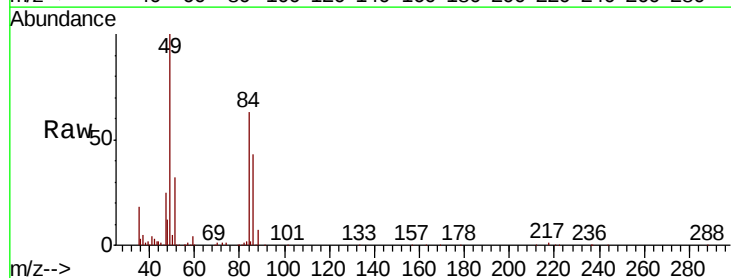
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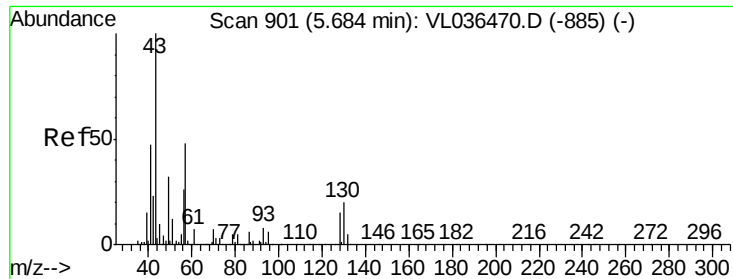


#20

Methylene Chloride
 Concen: 3.280 ppbv m
 RT: 4.37 min Scan# 491
 Delta R.T. 0.02 min
 Lab File: VL036514.D
 Acq: 26 Mar 2021 15:01

Tgt Ion: 84 Resp: 226838
 Ion Ratio Lower Upper
 84 100
 49 157.9 122.9 184.3
 51 50.7 36.9 55.3
 86 68.0 48.2 72.4





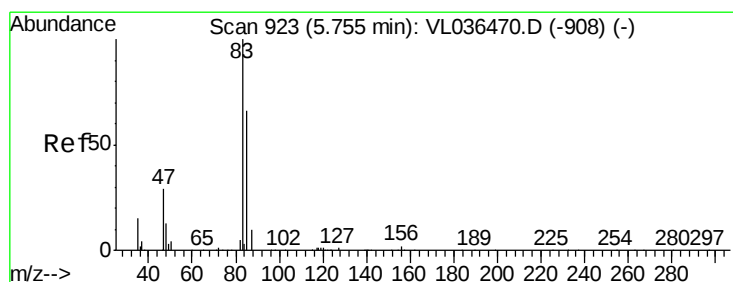
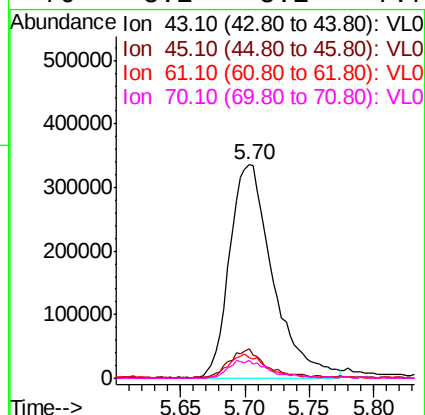
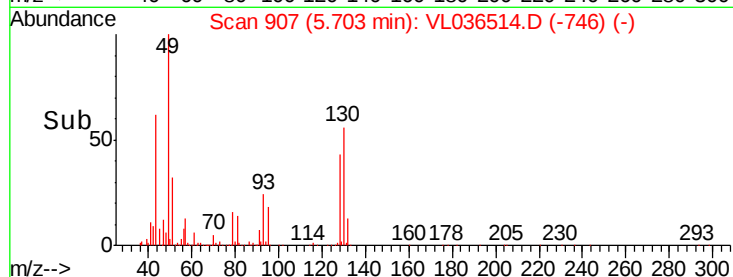
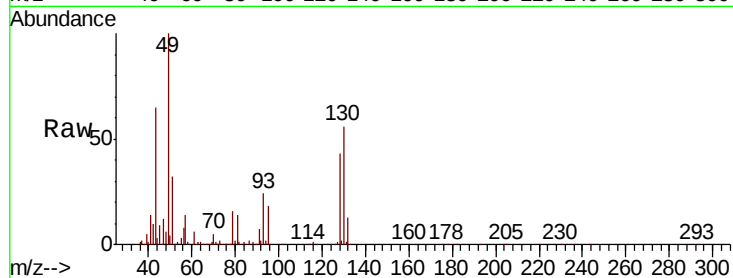
#25
Ethyl Acetate
Concen: 2.226 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.02 min
Lab File: VL036514.D
Acq: 26 Mar 2021 15:01

Instrument :
MSVOA_L
ClientSampleId :
SS-6-CR-104

Tot Ion	Ratio	Lower	Upper
43	100		
45	12.3	7.9	11.9#
61	10.7	7.4	11.2
70	8.1	5.1	7.7#

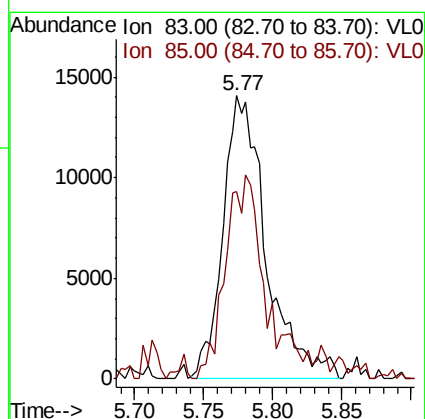
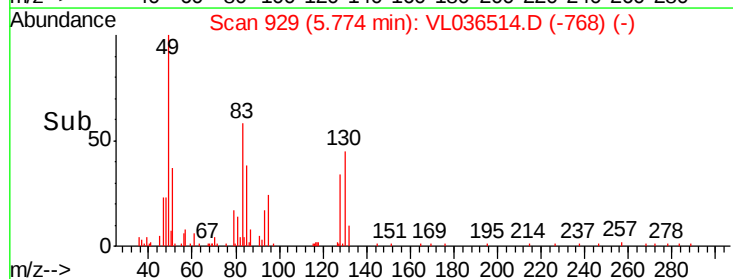
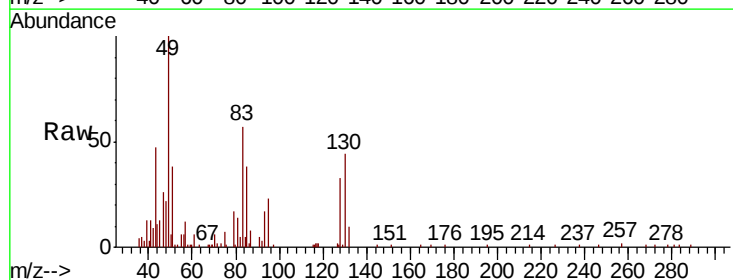
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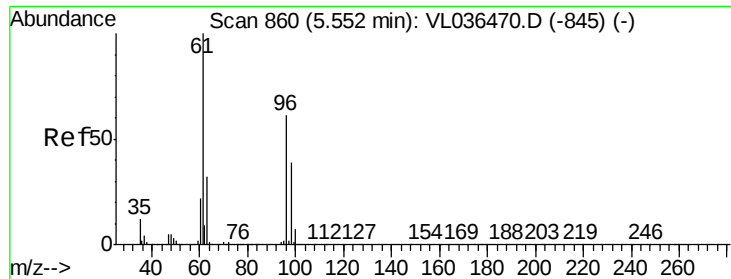
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#29
Chloroform
Concen: 0.117 ppbv m
RT: 5.77 min Scan# 929
Delta R.T. 0.02 min
Lab File: VL036514.D
Acq: 26 Mar 2021 15:01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.0	52.6	78.8





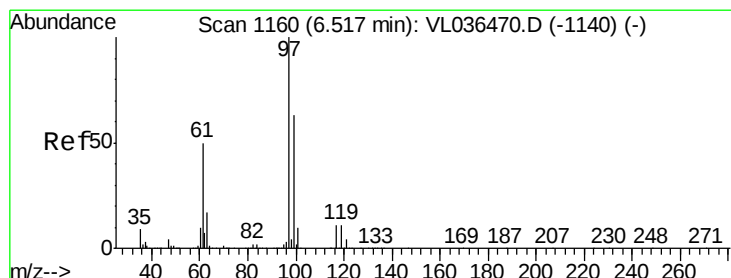
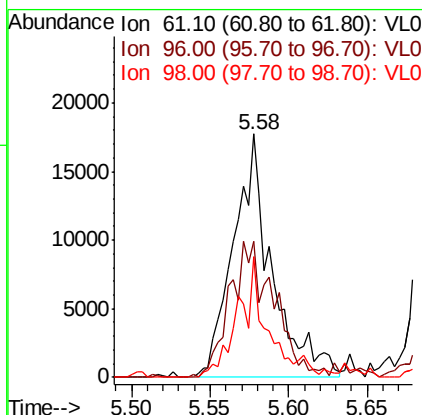
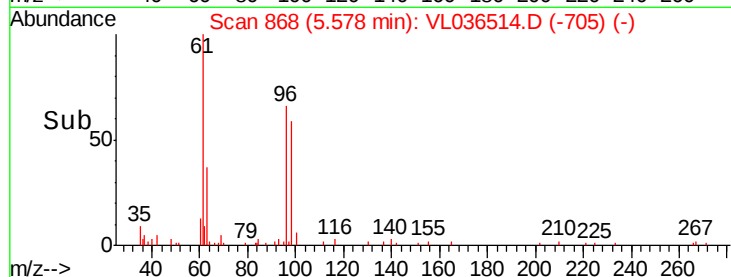
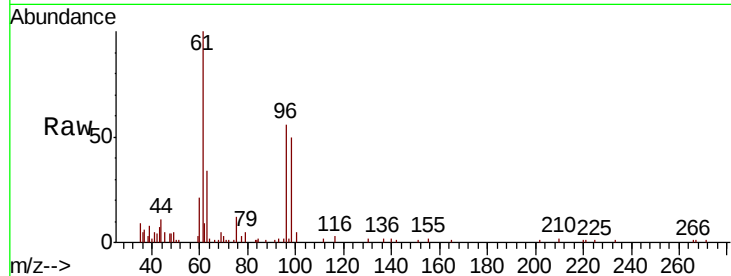
#31
 cis-1,2-Dichloroethene
 Concen: 0.190 ppbv m
 RT: 5.58 min Scan# 868
 Delta R.T. 0.03 min
 Lab File: VL036514.D
 Acq: 26 Mar 2021 15:01

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-6-CR-104

Tot Ion	Ratio	Lower	Upper
61	100		
96	56.1	48.7	73.1
98	49.8	31.4	47.0

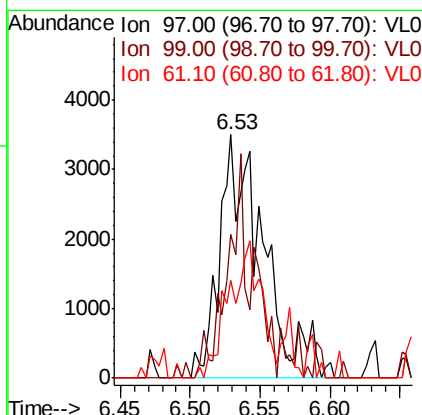
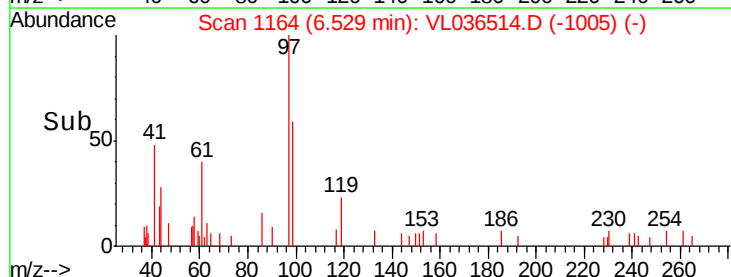
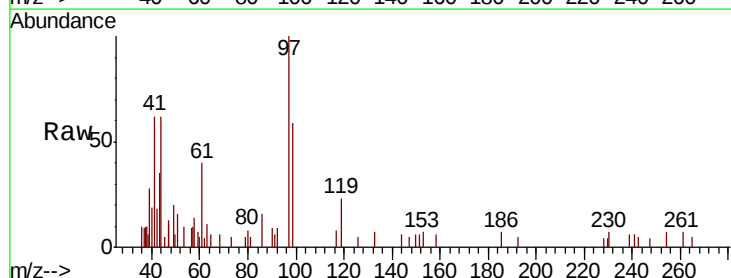
Manual Integrations
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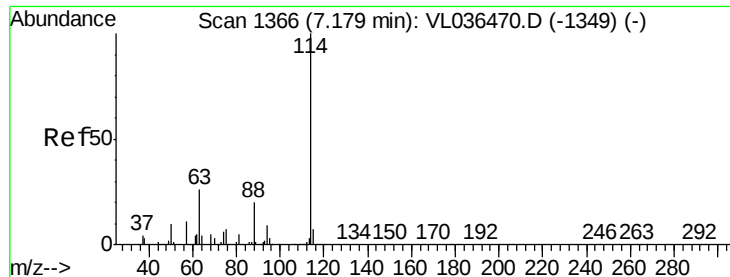
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#32
 1,1,1-Trichloroethane
 Concen: 0.029 ppbv m
 RT: 6.53 min Scan# 1164
 Delta R.T. 0.01 min
 Lab File: VL036514.D
 Acq: 26 Mar 2021 15:01

Tgt Ion	Ratio	Lower	Upper
97	100		
99	58.4	51.4	77.0
61	50.5	40.6	60.8





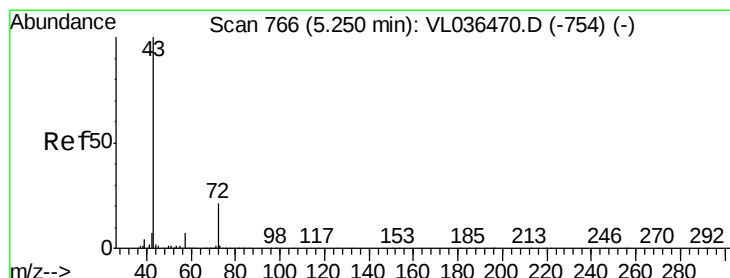
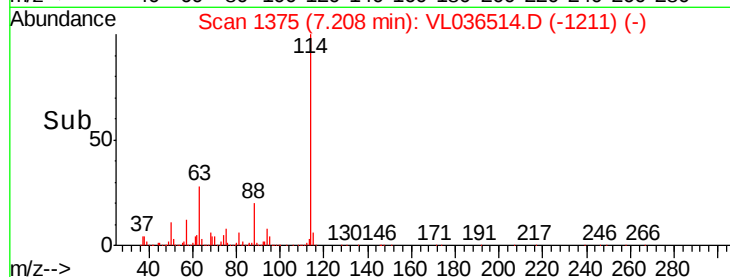
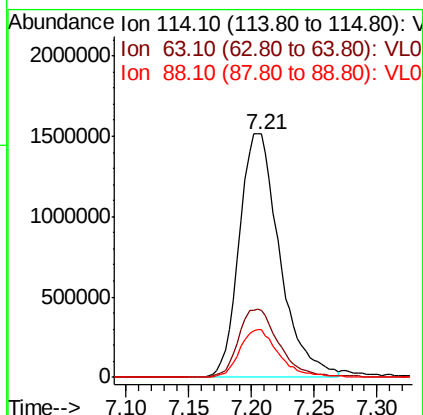
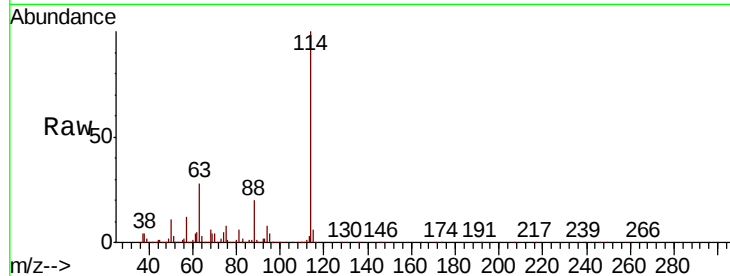
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1375
 Delta R.T. 0.03 min
 Lab File: VL036514.D
 Acq: 26 Mar 2021 15:01

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-6-CR-104

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.5	22.4	33.6
88	19.5	15.4	23.0

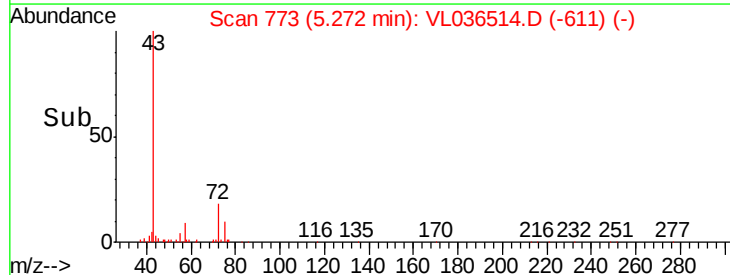
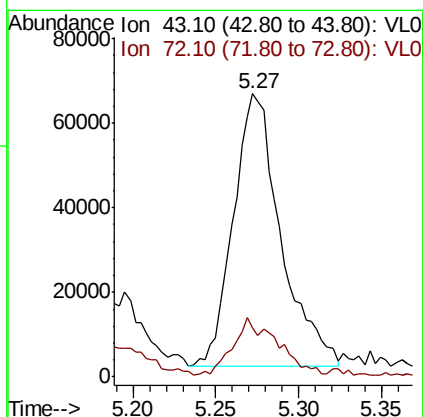
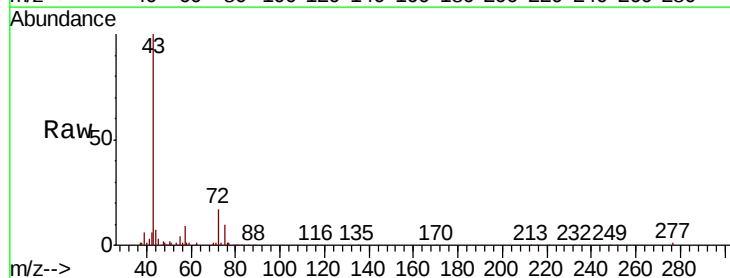
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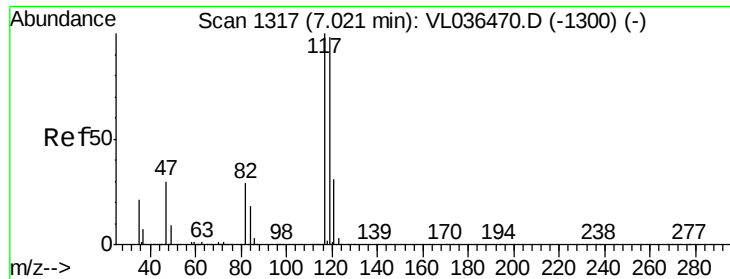
MMDadoda
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#34
 2-Butanone
 Concen: 0.771 ppbv
 RT: 5.27 min Scan# 773
 Delta R.T. 0.02 min
 Lab File: VL036514.D
 Acq: 26 Mar 2021 15:01

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.6	17.0	25.6





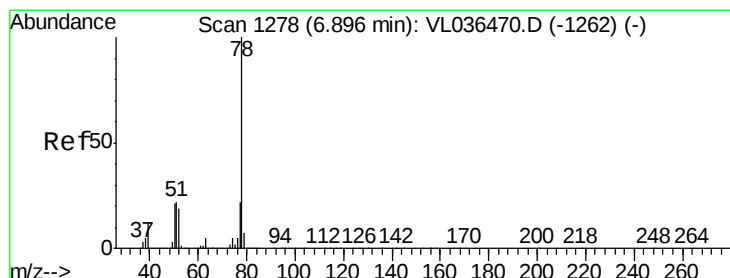
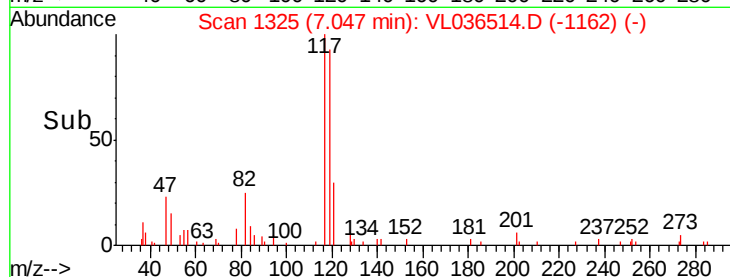
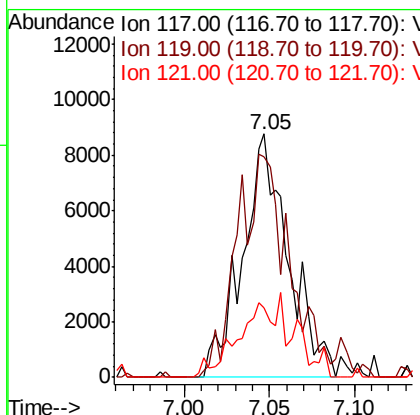
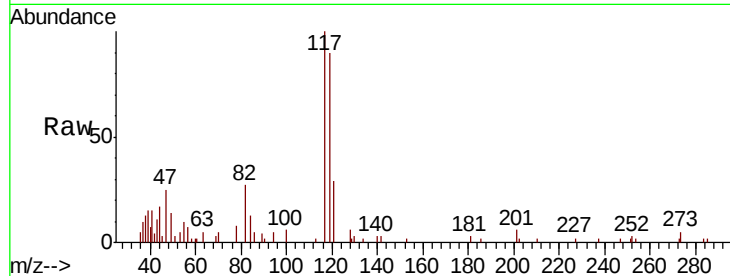
#35
Carbon Tetrachloride
Concen: 0.062 ppbv m
RT: 7.05 min Scan# 1325
Delta R.T. 0.03 min
Lab File: VL036514.D
Acq: 26 Mar 2021 15:01

Instrument :
MSVOA_L
ClientSampleId :
SS-6-CR-104

Tot Ion	Ratio	Lower	Upper
117	100		
119	90.4	78.2	117.2
121	28.5	24.5	36.7

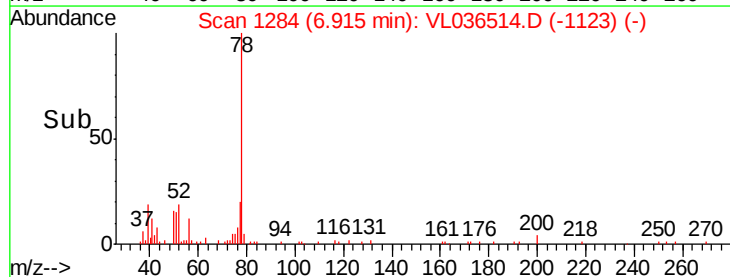
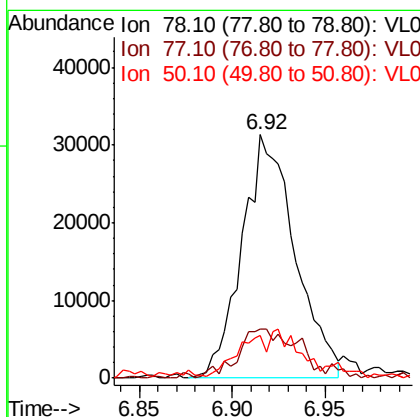
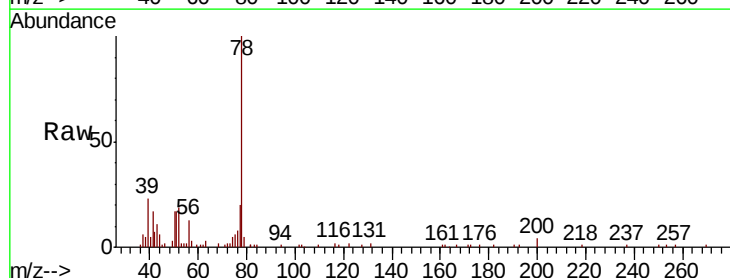
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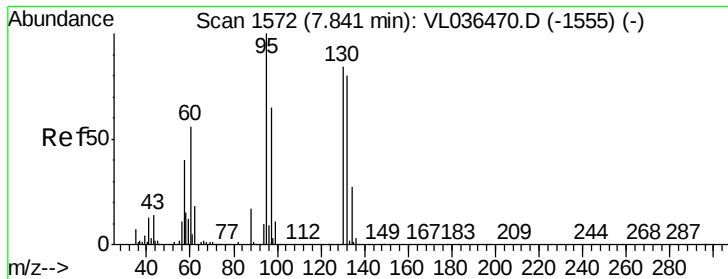
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#36
Benzene
Concen: 0.199 ppbv
RT: 6.92 min Scan# 1284
Delta R.T. 0.02 min
Lab File: VL036514.D
Acq: 26 Mar 2021 15:01

Tgt Ion	Ratio	Lower	Upper
78	100		
77	18.6	18.0	27.0
50	14.2	16.5	24.7





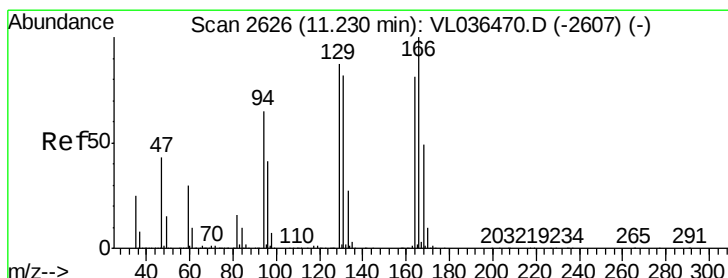
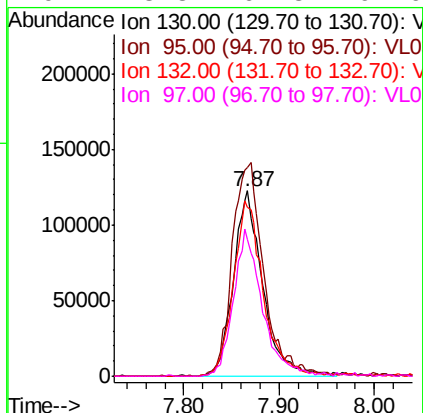
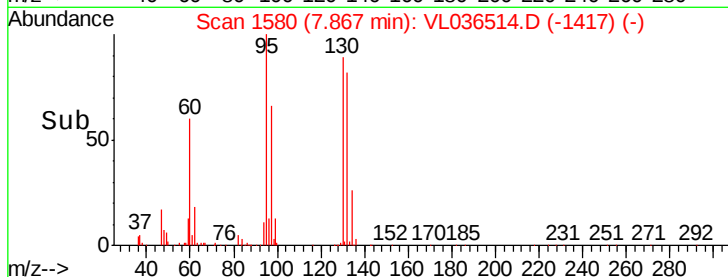
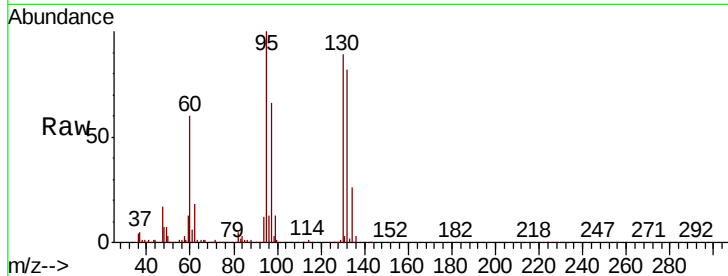
#38
 Trichloroethene
 Concen: 2.155 ppbv m
 RT: 7.87 min Scan# 1580
 Delta R.T. 0.03 min
 Lab File: VL036514.D
 Acq: 26 Mar 2021 15:01

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-6-CR-104

Tot Ion	Ratio	Lower	Upper
130	100		
95	112.3	95.7	143.5
132	91.6	76.2	114.4
97	73.8	61.8	92.6

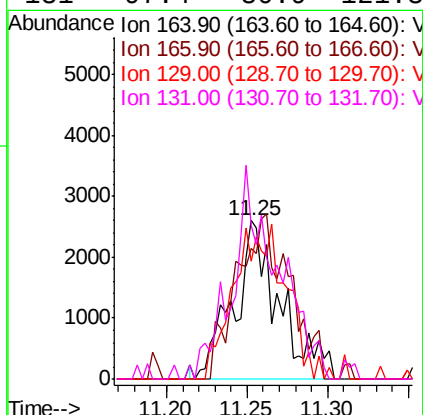
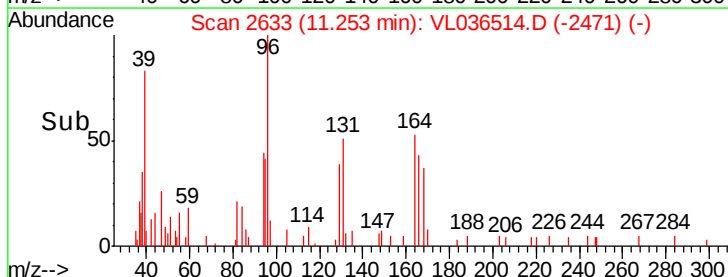
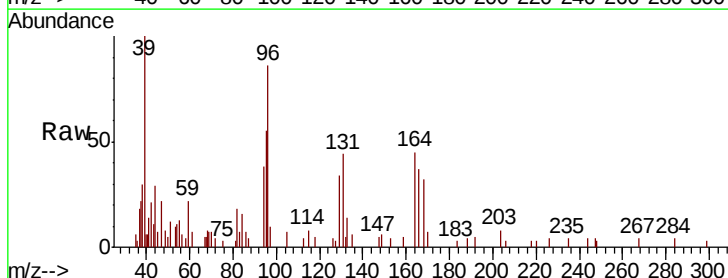
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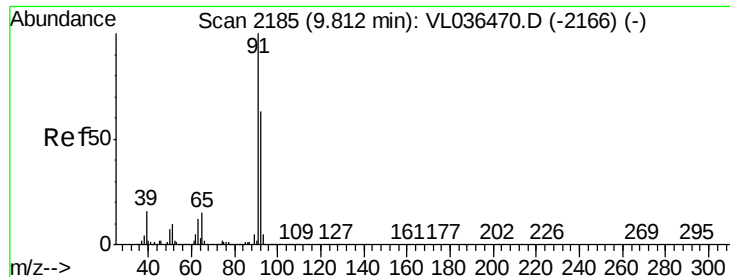
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#52
 Tetrachloroethene
 Concen: 0.045 ppbv m
 RT: 11.25 min Scan# 2633
 Delta R.T. 0.02 min
 Lab File: VL036514.D
 Acq: 26 Mar 2021 15:01

Tgt Ion	Ratio	Lower	Upper
164	100		
166	82.3	98.3	147.5#
129	74.5	85.8	128.8#
131	97.4	80.9	121.3





#53

Toluene

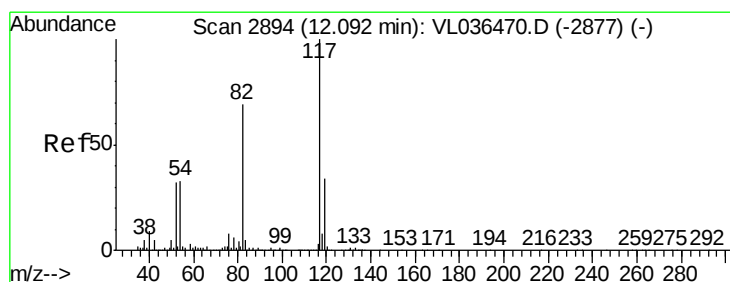
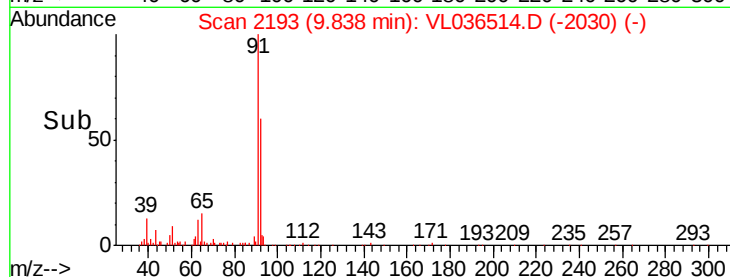
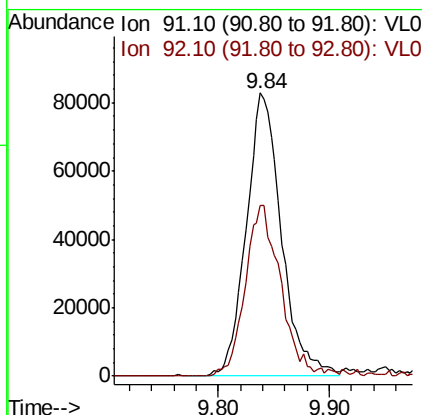
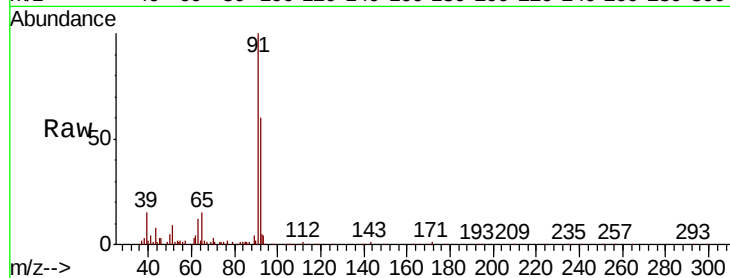
Concen: 0.543 ppbv m
RT: 9.84 min Scan# 2193
Delta R.T. 0.03 min
Lab File: VL036514.D
Acq: 26 Mar 2021 15:01

Instrument :
MSVOA_L
ClientSampleId :
SS-6-CR-104

Tot Ion	Ion	Ratio	Lower	Upper
91	100			
92	61.3	48.8	73.2	

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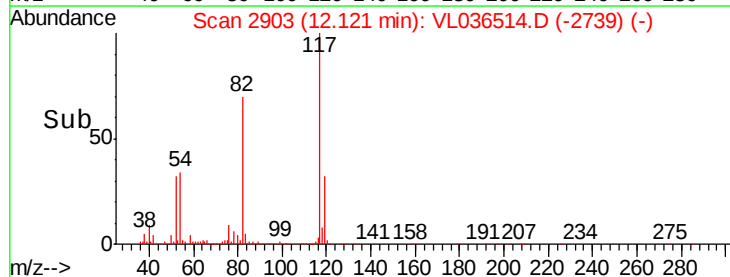
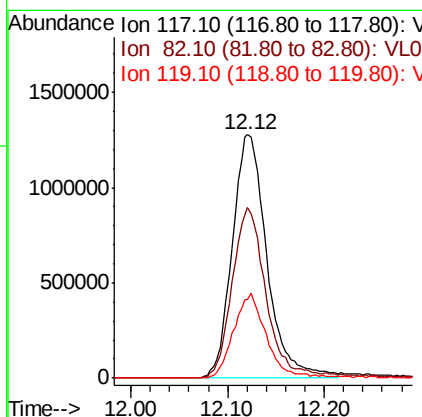
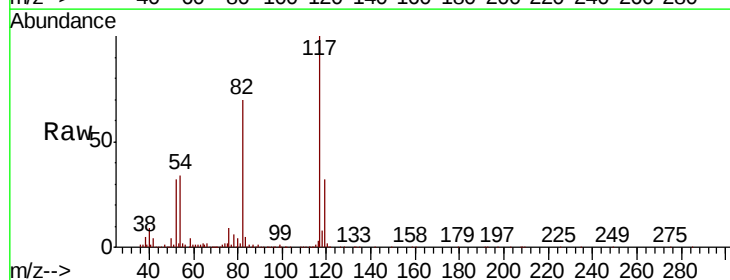


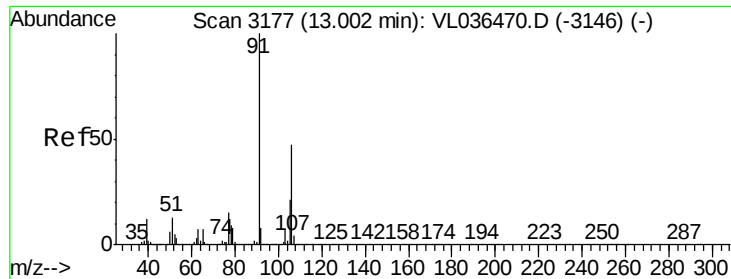
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. 0.03 min
Lab File: VL036514.D
Acq: 26 Mar 2021 15:01

Tgt Ion	Ion	Ratio	Lower	Upper
117	100			
82	71.2	57.4	86.0	
119	33.6	47.4	71.0	





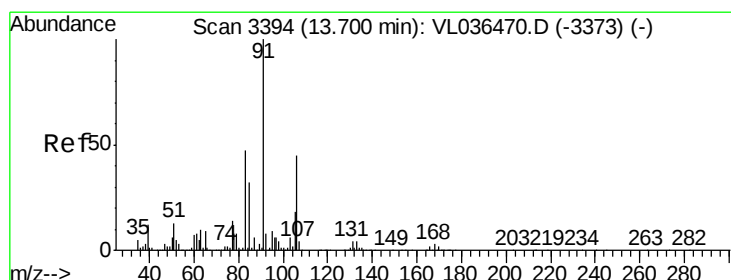
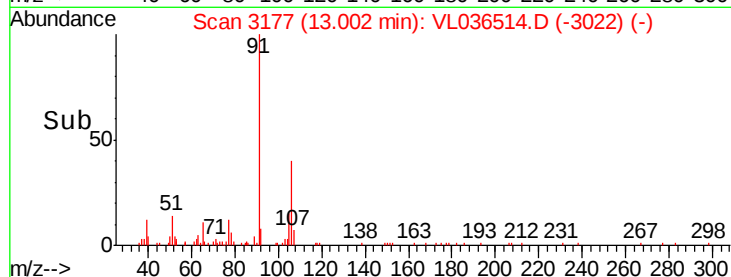
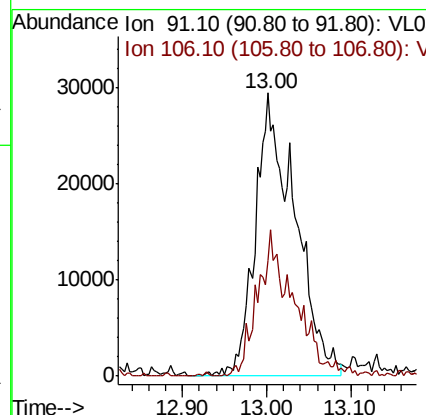
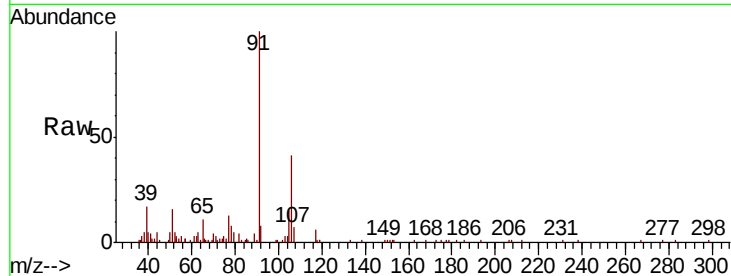
#59
m/p-Xylene
Concen: 0.238 ppbv m
RT: 13.00 min Scan# 3177
Delta R.T. -0.00 min
Lab File: VL036514.D
Acq: 26 Mar 2021 15:01

Instrument :
MSVOA_L
ClientSampleId :
SS-6-CR-104

Tot Ion: 91 Resp: 96097
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

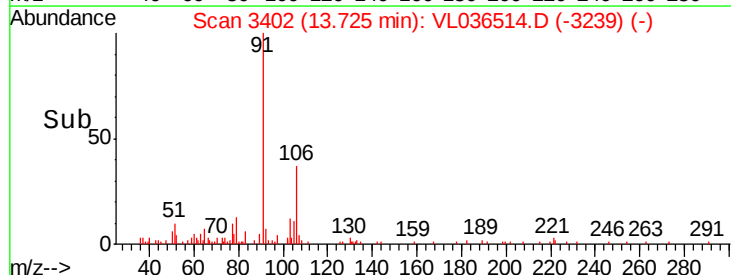
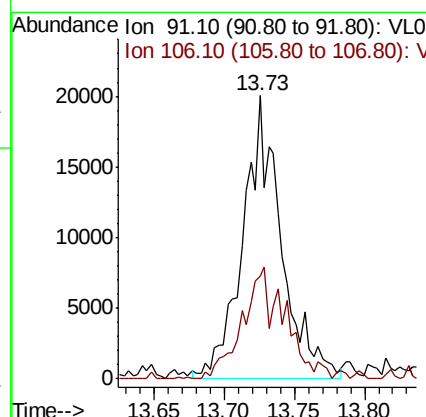
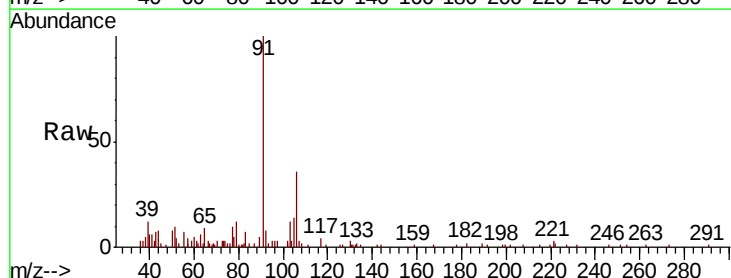
Manual Integrations
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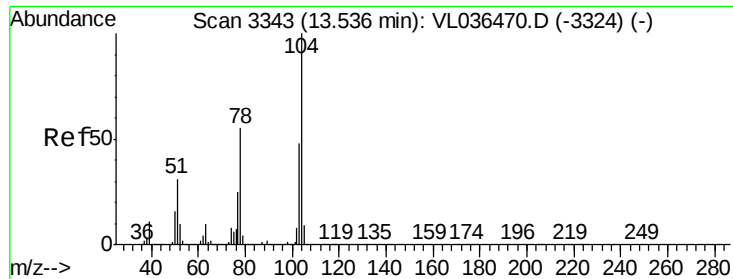
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#60
o-Xylene
Concen: 0.097 ppbv m
RT: 13.73 min Scan# 3402
Delta R.T. 0.03 min
Lab File: VL036514.D
Acq: 26 Mar 2021 15:01

Tgt Ion: 91 Resp: 38080
Ion Ratio Lower Upper
91 100
106 1.9 22.3 66.9#





#61

Stvrene

Concen: 0.229 ppbv m

RT: 13.57 min Scan# 3353

Delta R.T. 0.03 min

Lab File: VL036514.D

Acq: 26 Mar 2021 15:01

Instrument :

MSVOA_L

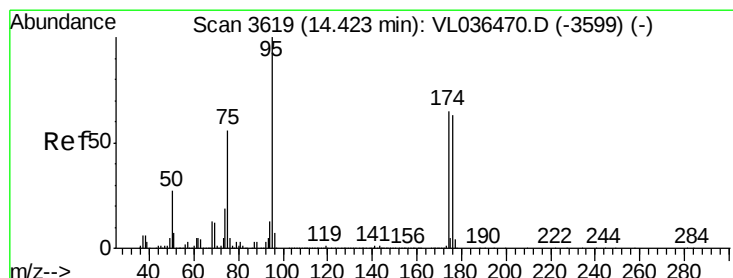
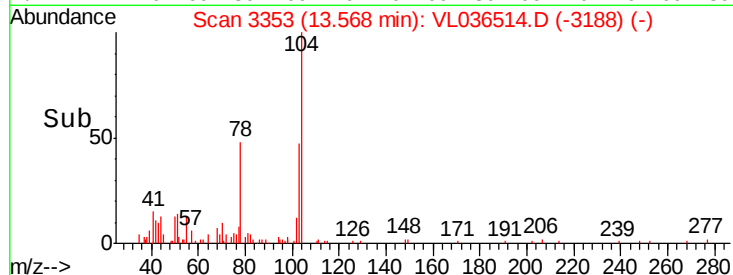
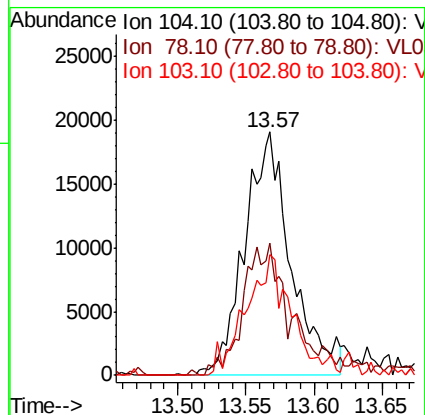
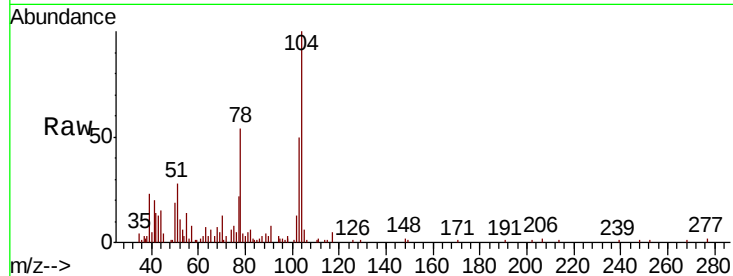
ClientSampled :

SS-6-CR-104

Tot Ion:	104	Resp:	45058
Ion Ratio	Lower	Upper	
104	100		
78	61.5	43.8	65.8
103	48.4	38.3	57.5

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.741 ppbv

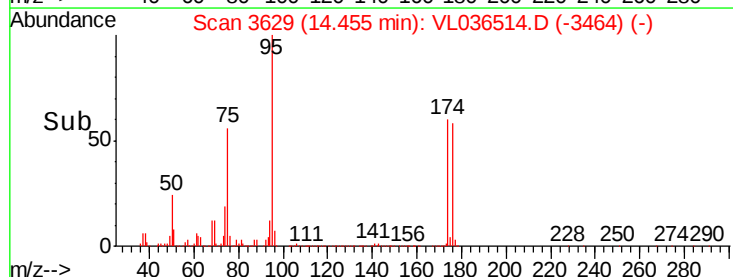
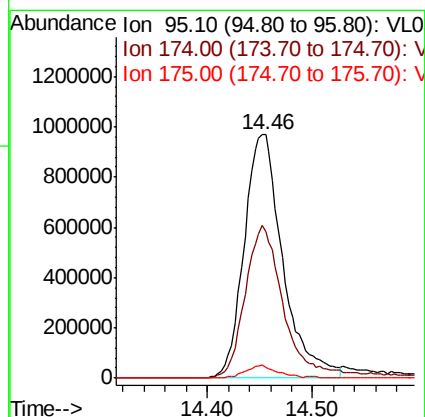
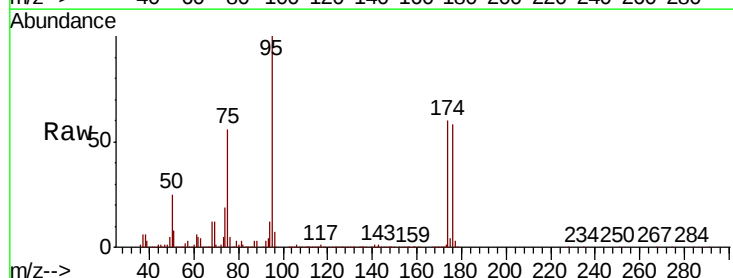
RT: 14.46 min Scan# 3629

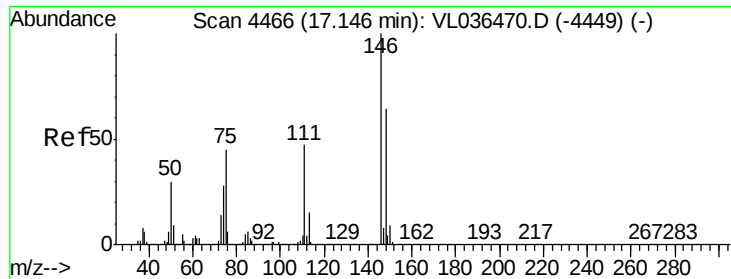
Delta R.T. 0.03 min

Lab File: VL036514.D

Acq: 26 Mar 2021 15:01

Tgt Ion:	95	Resp:	2471645
Ion Ratio	Lower	Upper	
95	100		
174	65.0	51.0	76.6
175	4.7	3.9	5.9





#76

1,4-Dichlorobenzene

Concen: 0.378 ppbv m

RT: 17.17 min Scan# 4474

Delta R.T. 0.03 min

Lab File: VL036514.D

Acq: 26 Mar 2021 15:01

Instrument :

MSVOA_L

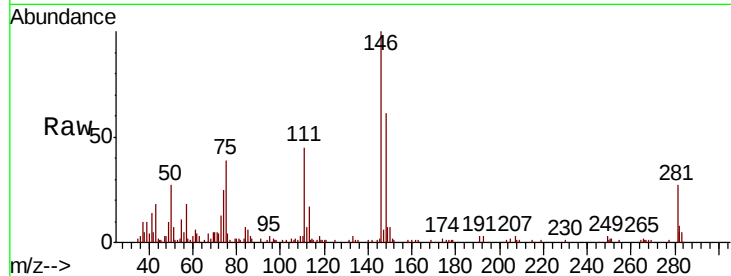
ClientSampleId :

SS-6-CR-104

Tot Ion:	146	Resp:	90396
Ion Ratio		Lower	Upper
146	100		
111	0.0	24.3	72.8#
148	0.0	33.0	98.9#

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Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

