

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL121620\
 Data File : VL036183.D
 Acq On : 17 Dec 2020 1:46
 Operator : SY/AP
 Sample : L5041-03
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT

Manual Integrations
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 12/17/2020 3:56:51 PM

Quant Time: Dec 17 13:48:20 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120720AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 2020

QLast Update : Mon Dec 07 16:56:49 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1394896	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2571819	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2388463	10.00	ppbv	0.00

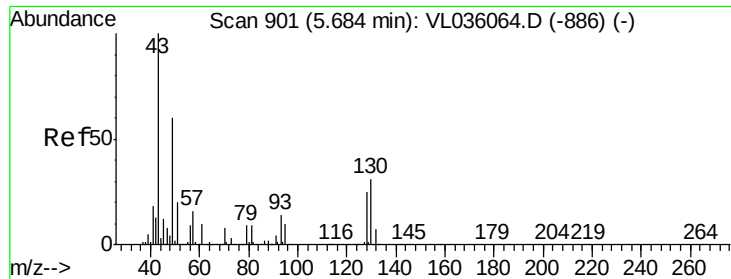
System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2099327	11.07	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.70%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.05	85	44715	0.275	ppbv	93
3) Chlorodifluoromethane	2.99	51	68602	0.431	ppbv	94
4) Chloromethane	3.15	50	15820m	0.202	ppbv	
7) Chloroethane	3.56	64	62485	2.110	ppbv	92
9) Propene	3.02	41	41561m	0.521	ppbv	
10) Heptane	8.14	43	25540	0.125	ppbv	91
11) Trichlorofluoromethane	3.96	101	114730	0.600	ppbv	85
12) 1,1,2-Trichlorotrifluoroet	4.49	101	206056	1.588	ppbv	87
13) Ethanol	3.61	45	453611	41.273	ppbv	90
15) Acetone	3.86	43	1020023	6.084	ppbv	95
17) tert-Butyl alcohol	4.31	59	46505m	0.286	ppbv	
18) 1,1-Dichloroethene	4.29	96	144483m	2.507	ppbv	
19) Isopropyl Alcohol	3.98	45	1514934	14.785	ppbv #	100
20) Methylene Chloride	4.35	84	1272269	18.520	ppbv	94
24) 1,1-Dichloroethane	5.02	63	2545925	16.218	ppbv	98
26) Hexane	5.70	57	915604m	6.074	ppbv	
29) Chloroform	5.77	83	21455	0.108	ppbv #	74
32) 1,1,1-Trichloroethane	6.53	97	14808255	72.501	ppbv	89
34) 2-Butanone	5.26	43	67829	0.398	ppbv	99
35) Carbon Tetrachloride	7.03	117	12348m	0.082	ppbv	
36) Benzene	6.92	78	29297m	0.134	ppbv	
37) 1,2-Dichloroethane	6.33	62	15511m	0.123	ppbv	
38) Trichloroethene	7.85	130	32675m	0.401	ppbv	
44) 2,2,4-Trimethylpentane	7.88	57	50211m	0.127	ppbv	
52) Tetrachloroethene	11.24	164	46343	0.587	ppbv #	82
53) Toluene	9.83	91	368037m	1.504	ppbv	
59) m/p-Xylene	12.98	91	78218m	0.284	ppbv	
60) o-Xylene	13.72	91	36142m	0.139	ppbv	
74) 1,2,4-Trimethylbenzene	16.79	105	42558m	0.158	ppbv	
75) 1,3-Dichlorobenzene	17.02	146	144154m	1.068	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.00 min

Lab File: VL036183.D

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Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

Tgt Ion: 49 Resp: 1394896

Ion Ratio Lower Upper

49 100

128 35.0 21.1 63.1

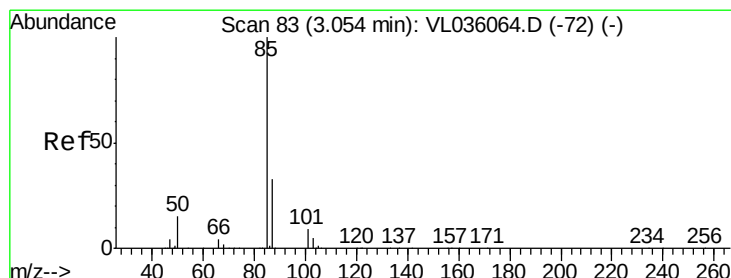
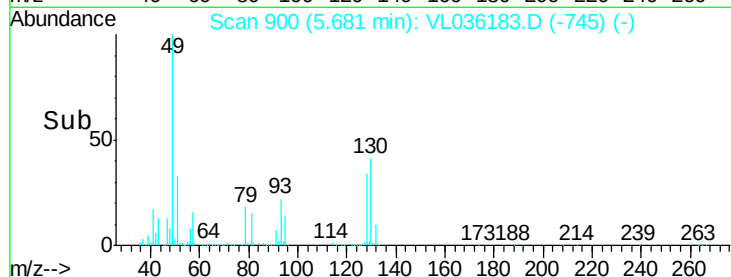
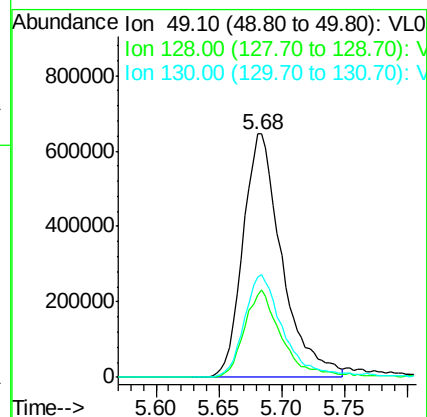
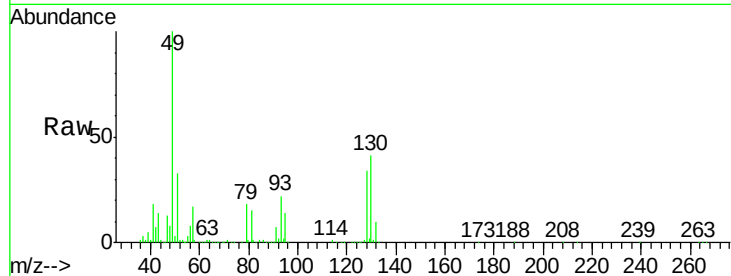
130 43.5 27.1 81.3

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.275 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.00 min

Lab File: VL036183.D

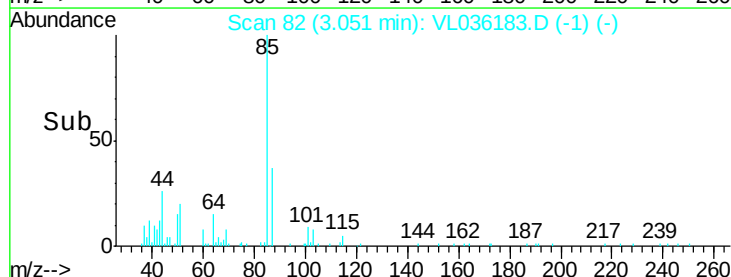
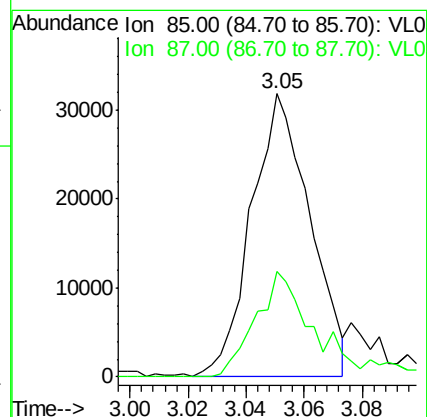
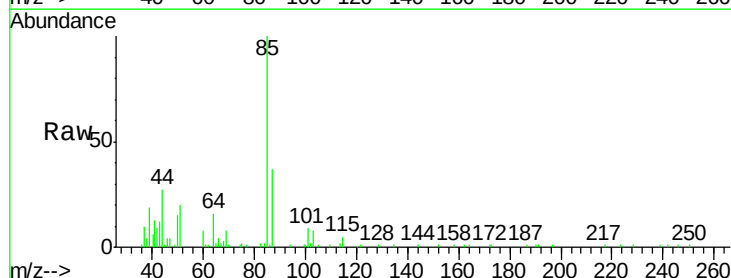
Acq: 17 Dec 2020 1:46

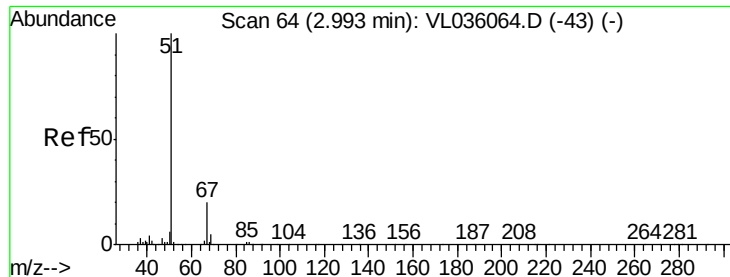
Tgt Ion: 85 Resp: 44715

Ion Ratio Lower Upper

85 100

87 37.1 26.5 39.7





#3

Chlorodifluoromethane

Concen: 0.431 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL036183.D

Acq: 17 Dec 2020 1:46

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

Tgt Ion: 51 Resp: 68602

Ion Ratio Lower Upper

51 100

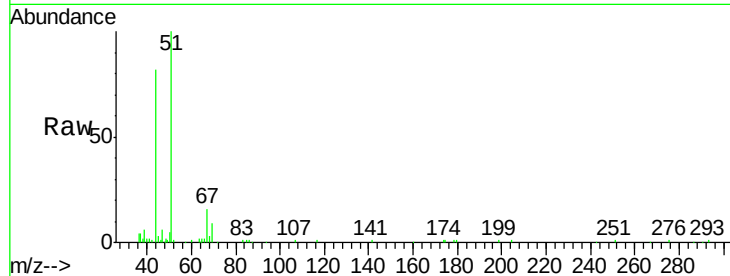
67 20.5 14.3 21.5

Manual Integrations

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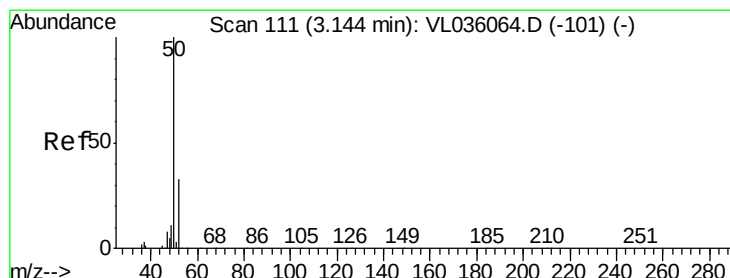
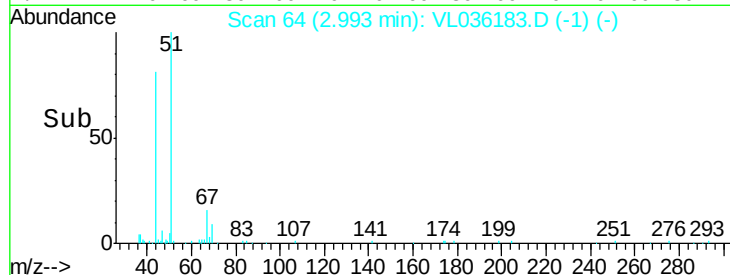
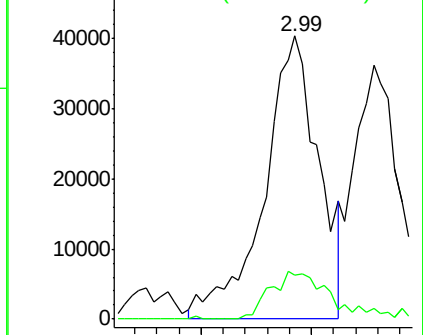
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.202 ppbv m

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL036183.D

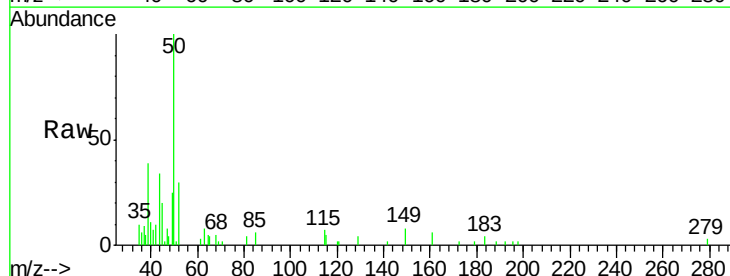
Acq: 17 Dec 2020 1:46

Tgt Ion: 50 Resp: 15820

Ion Ratio Lower Upper

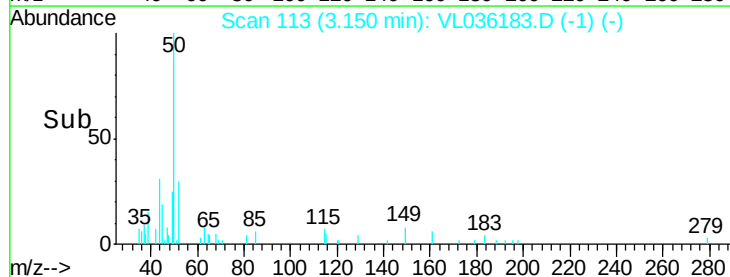
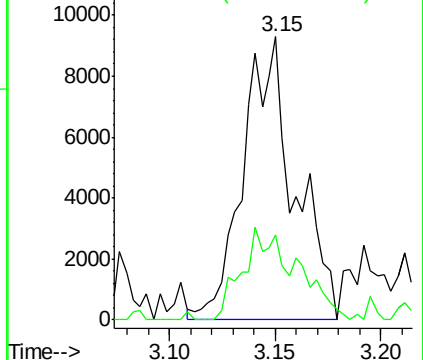
50 100

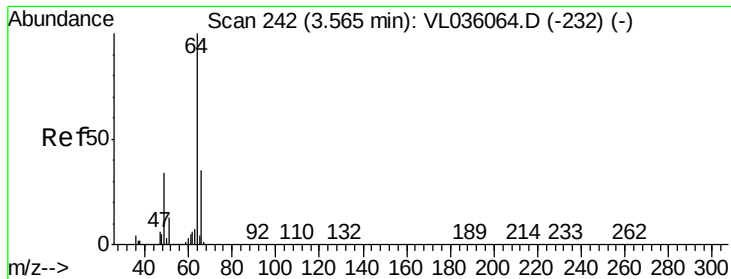
52 30.1 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 2.110 ppbv

RT: 3.56 min Scan# 241

Delta R.T. -0.00 min

Lab File: VL036183.D

Acq: 17 Dec 2020 1:46

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

Tgt Ion: 64 Resp: 62485

Ion Ratio Lower Upper

64 100

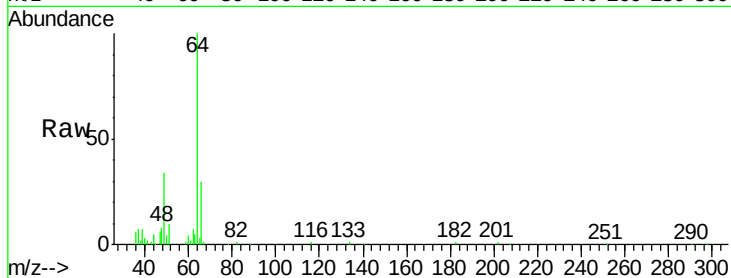
66 30.1 27.7 41.5

Manual Integrations

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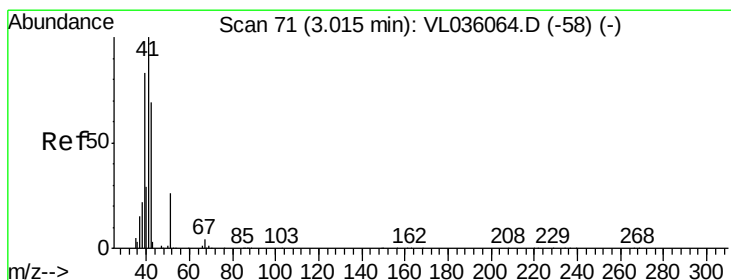
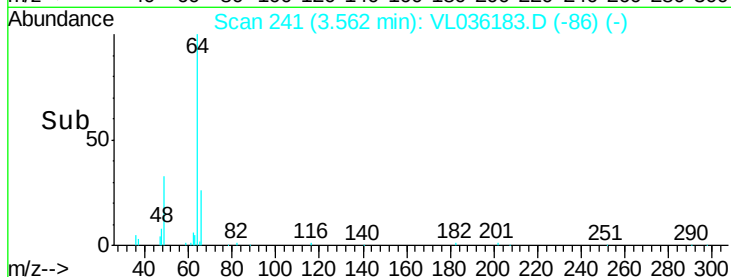
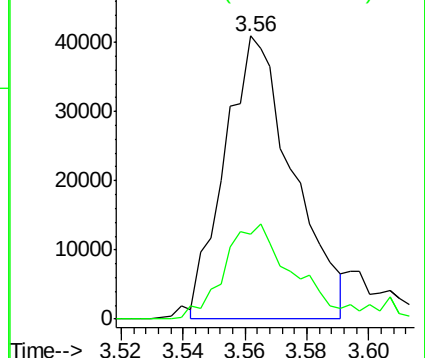
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 0.521 ppbv m

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL036183.D

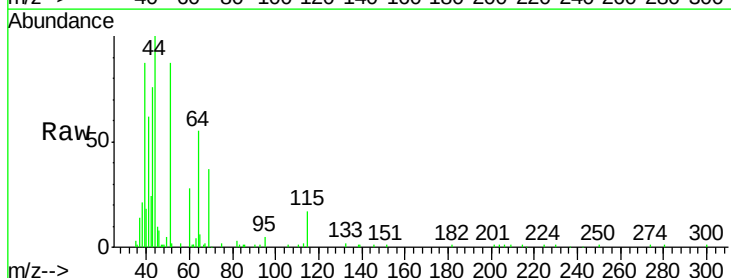
Acq: 17 Dec 2020 1:46

Tgt Ion: 41 Resp: 41561

Ion Ratio Lower Upper

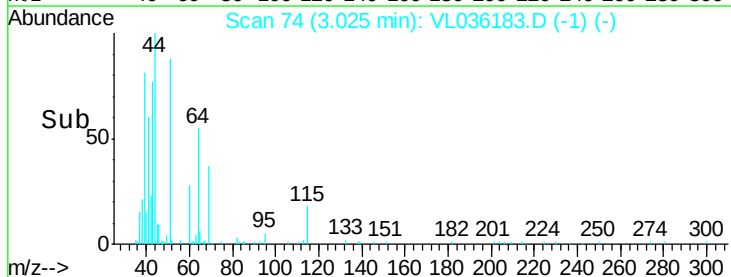
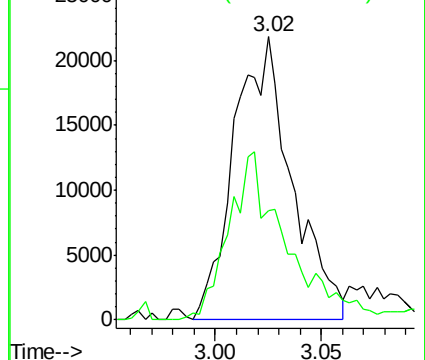
41 100

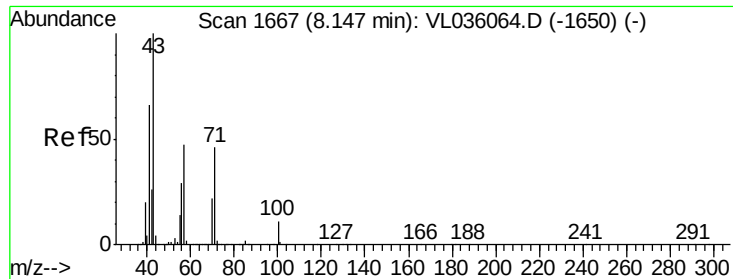
42 62.1 57.0 85.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





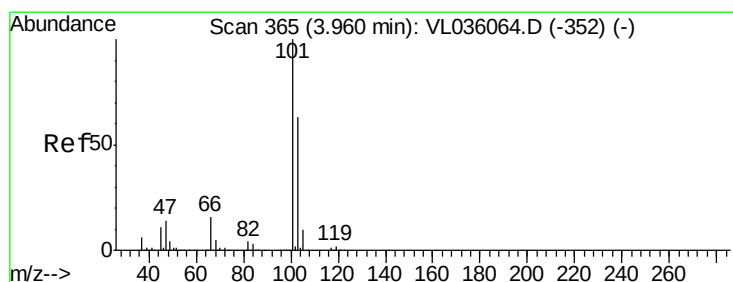
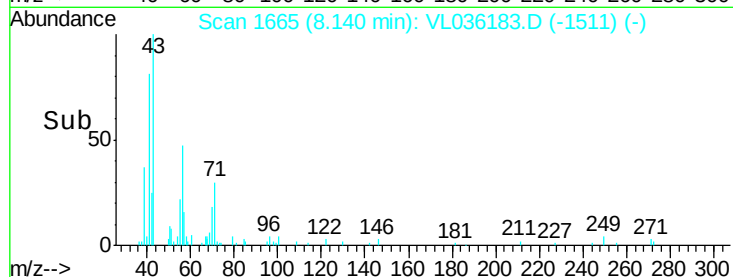
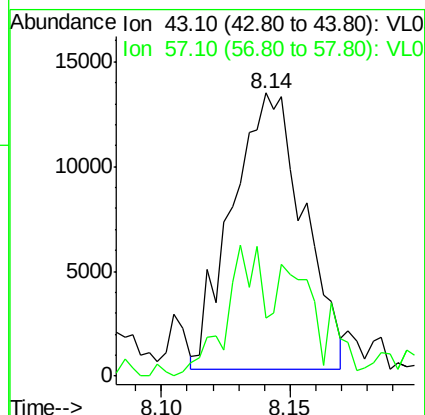
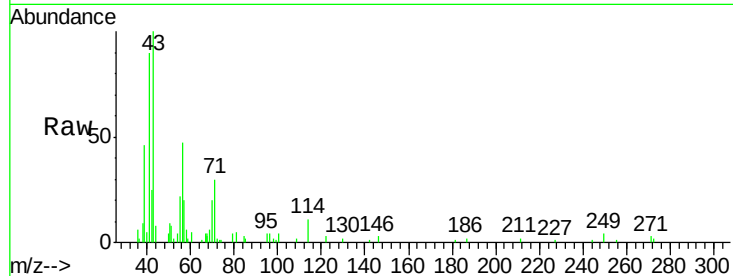
#10
Heptane
Concen: 0.125 ppbv
RT: 8.14 min Scan# 1665
Delta R.T. -0.01 min
Lab File: VL036183.D
Acq: 17 Dec 2020 1:46

Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

Tgt Ion: 43 Resp: 25540
Ion Ratio Lower Upper
43 100
57 53.1 37.9 56.9

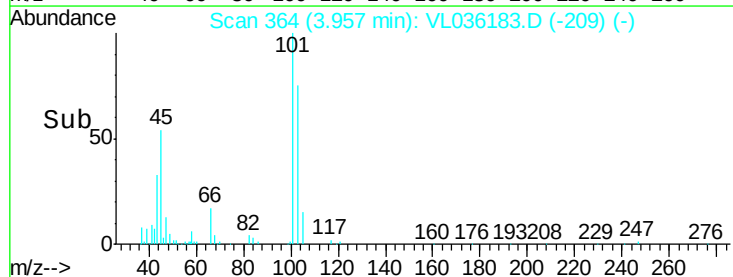
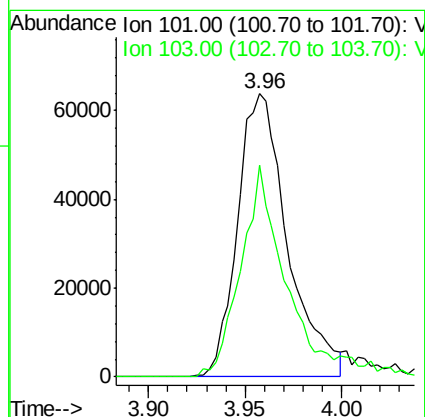
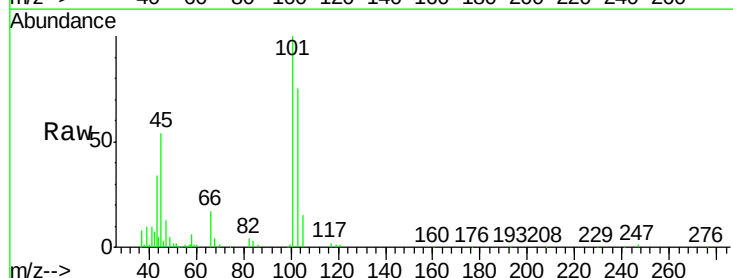
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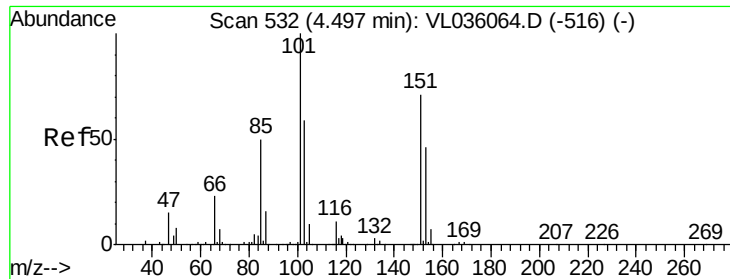
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#11
Trichlorofluoromethane
Concen: 0.600 ppbv
RT: 3.96 min Scan# 364
Delta R.T. -0.00 min
Lab File: VL036183.D
Acq: 17 Dec 2020 1:46

Tgt Ion: 101 Resp: 114730
Ion Ratio Lower Upper
101 100
103 74.7 50.3 75.5





#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.588 ppbv

RT: 4.49 min Scan# 531

Delta R.T. -0.00 min

Lab File: VL036183.D

Acq: 17 Dec 2020 1:46

Instrument :

MSVOA_L

ClientSampled :

INFLUENT

Tgt Ion: 101 Resp: 206056

Ion Ratio Lower Upper

101 100

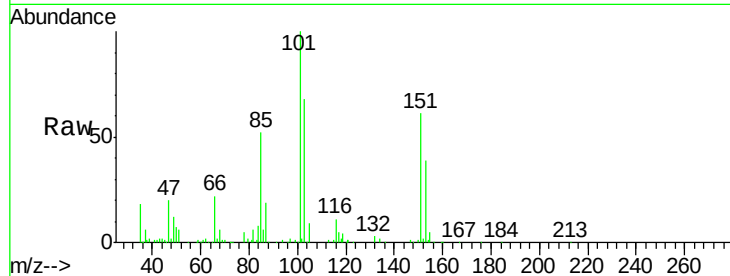
151 62.7 59.3 88.9

Manual Integrations

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

120000

100000

80000

60000

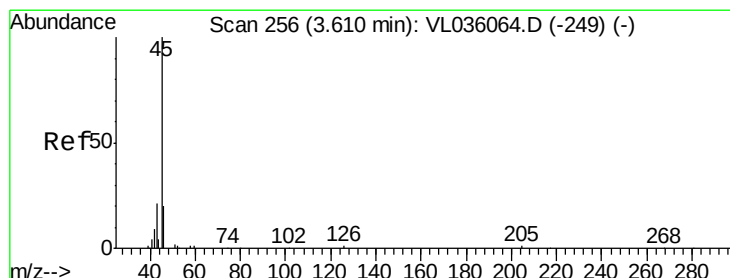
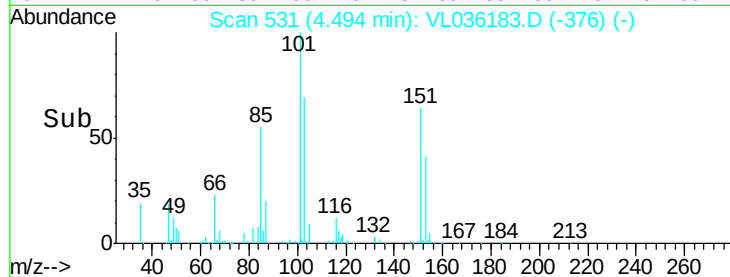
40000

20000

0

4.45 4.50 4.55

Time-->



#13

Ethanol

Concen: 41.273 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.00 min

Lab File: VL036183.D

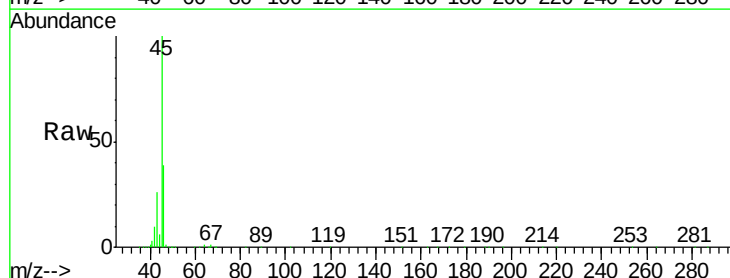
Acq: 17 Dec 2020 1:46

Tgt Ion: 45 Resp: 453611

Ion Ratio Lower Upper

45 100

46 40.7 19.0 75.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

250000

200000

150000

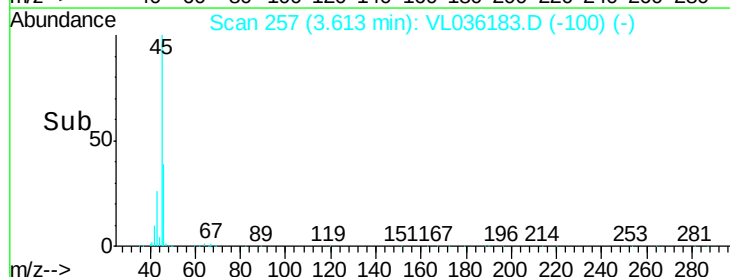
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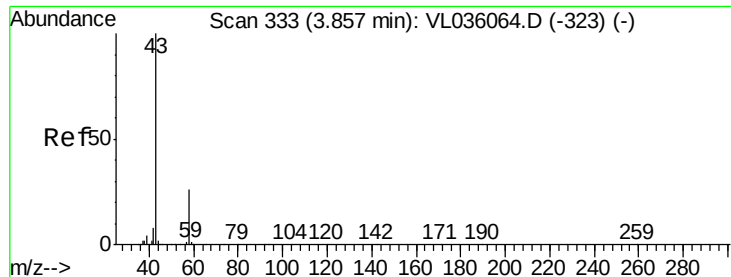
50000

0

3.55 3.60 3.65

Time-->





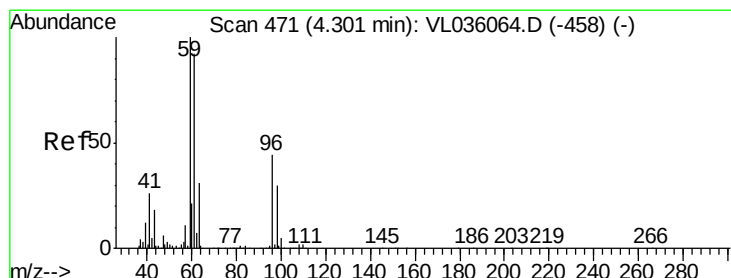
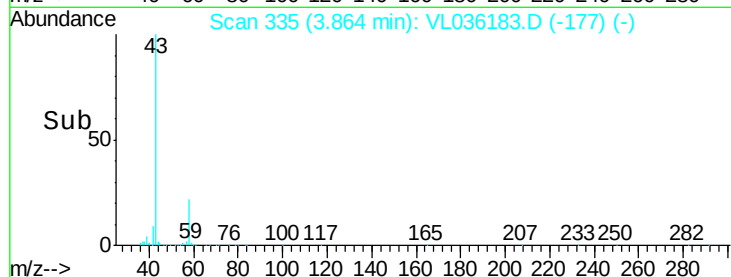
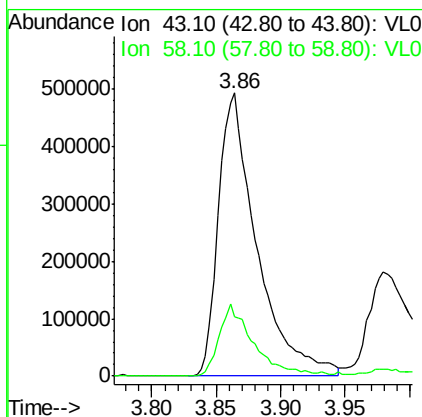
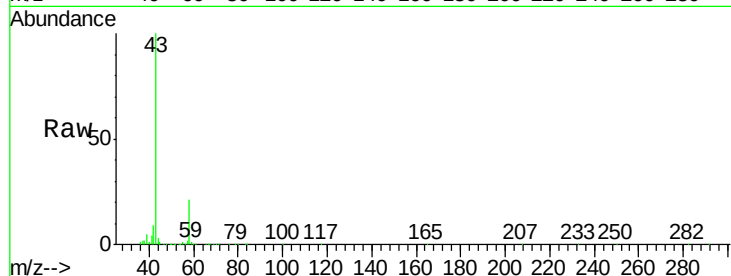
#15
Acetone
Concen: 6.084 ppbv
RT: 3.86 min Scan# 335
Delta R.T. 0.01 min
Lab File: VL036183.D
Acq: 17 Dec 2020 1:46

Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

Tgt Ion: 43 Resp: 1020023
Ion Ratio Lower Upper
43 100
58 23.3 20.9 31.3

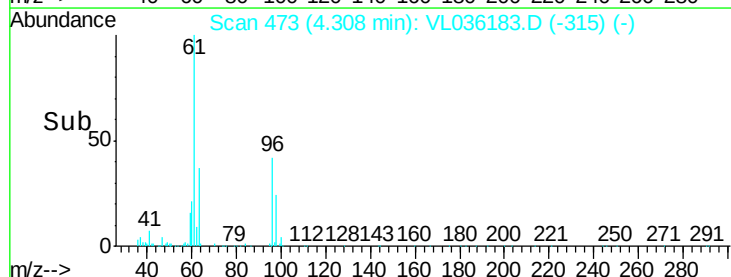
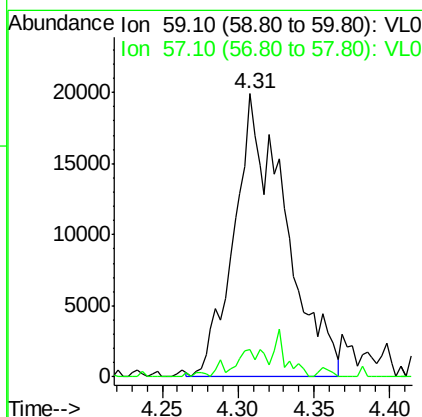
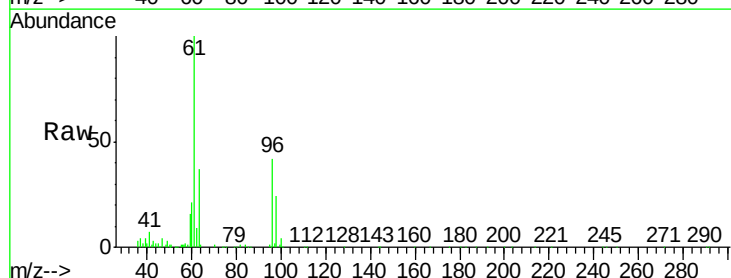
Manual Integrations
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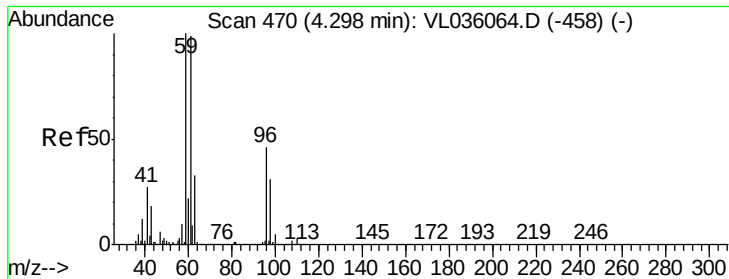
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#17
tert-Butyl alcohol
Concen: 0.286 ppbv m
RT: 4.31 min Scan# 473
Delta R.T. 0.01 min
Lab File: VL036183.D
Acq: 17 Dec 2020 1:46

Tgt Ion: 59 Resp: 46505
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#





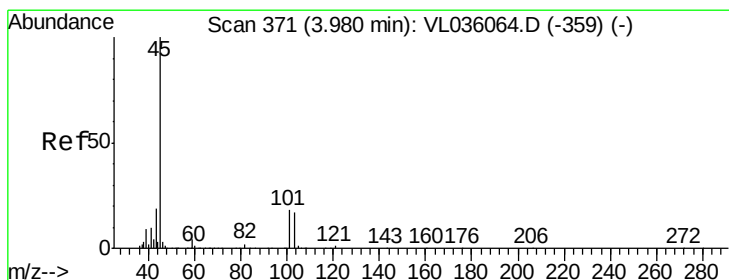
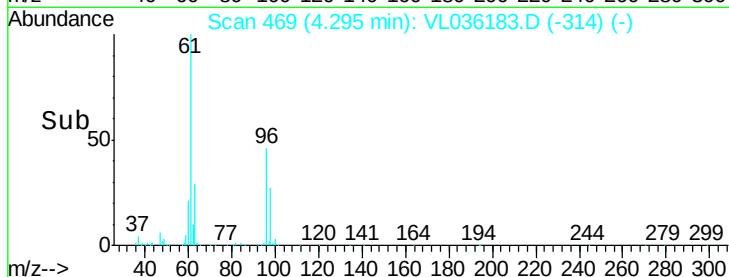
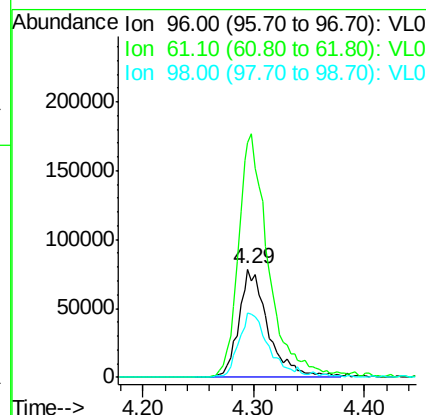
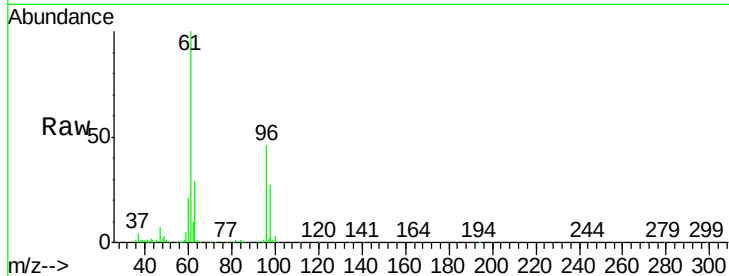
#18
 1,1-Dichloroethene
 Concen: 2.507 ppbv m
 RT: 4.29 min Scan# 469
 Delta R.T. -0.00 min
 Lab File: VL036183.D
 Acq: 17 Dec 2020 1:46

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT

Tgt Ion	Ratio	Lower	Upper
96	100		
61	216.3	171.4	257.2
98	59.0	54.2	81.2

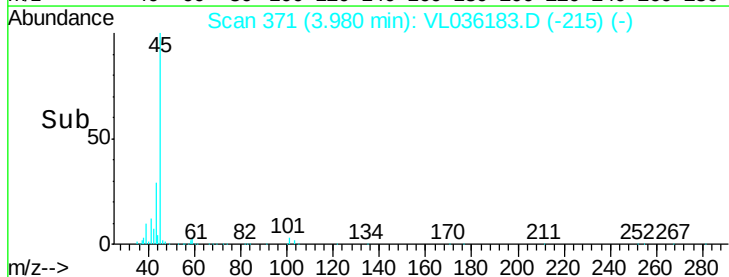
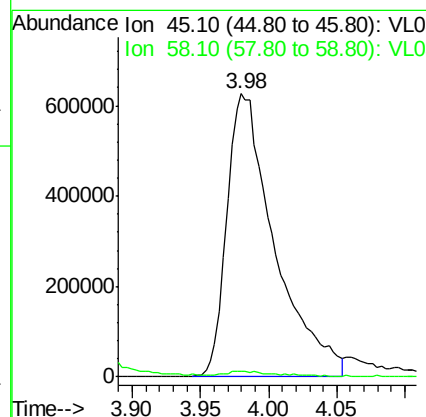
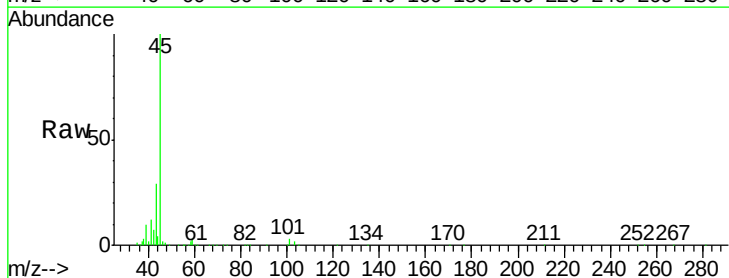
Manual Integrations
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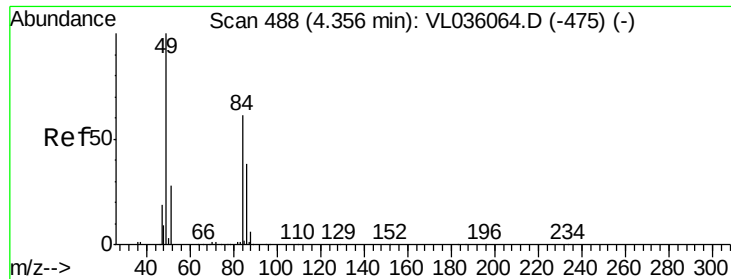
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#19
 Isopropyl Alcohol
 Concen: 14.785 ppbv
 RT: 3.98 min Scan# 371
 Delta R.T. 0.00 min
 Lab File: VL036183.D
 Acq: 17 Dec 2020 1:46

Tgt Ion	Ratio	Lower	Upper
45	100		
58	1.8	0.0	0.0#





#20
Methylene Chloride
Concen: 18.520 ppbv
RT: 4.35 min Scan# 487
Delta R.T. -0.00 min
Lab File: VL036183.D
Acq: 17 Dec 2020 1:46

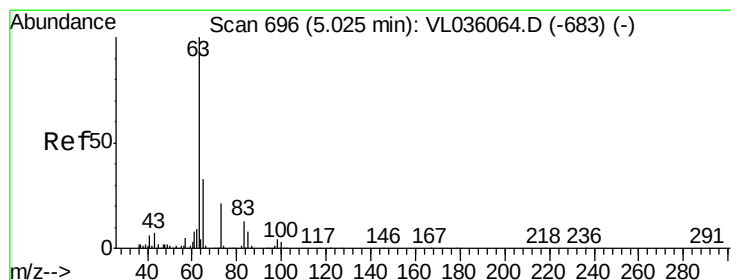
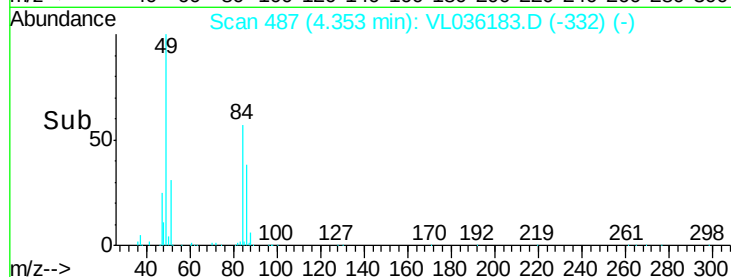
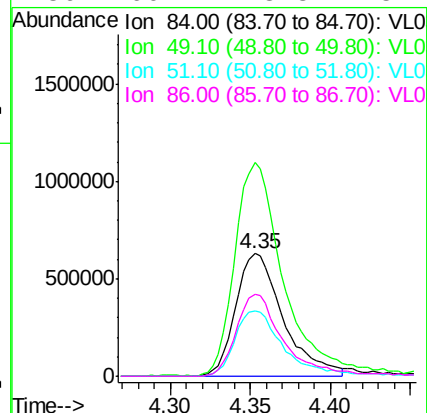
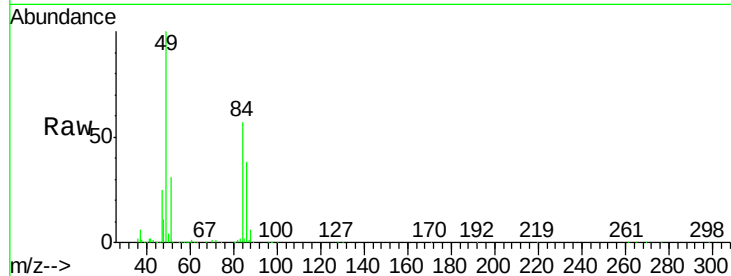
Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

Tgt Ion: 84 Resp: 1272269

Ion	Ratio	Lower	Upper
84	100		
49	173.9	133.0	199.4
51	53.4	38.9	58.3
86	66.4	48.8	73.2

Manual Integrations
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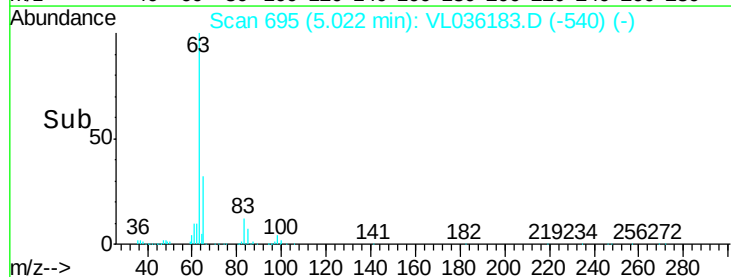
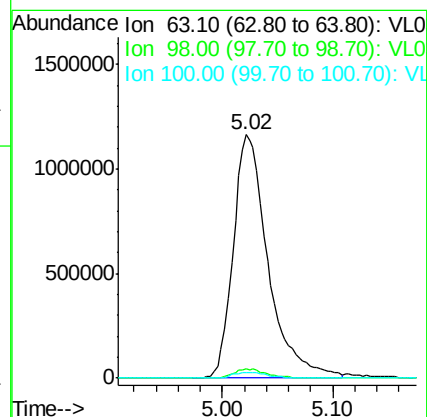
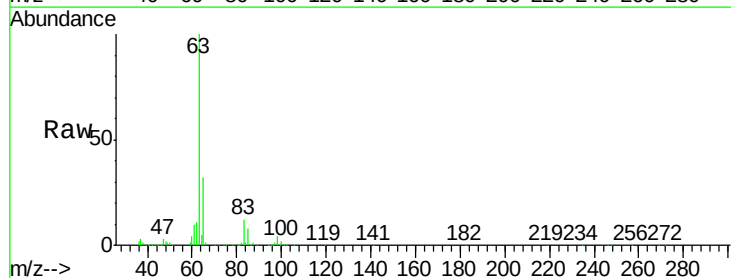
MMDadoda
12/17/2020 3:56:51 PM

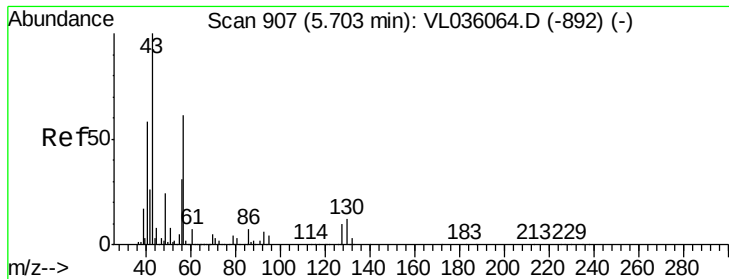


#24
1,1-Dichloroethane
Concen: 16.218 ppbv
RT: 5.02 min Scan# 695
Delta R.T. -0.00 min
Lab File: VL036183.D
Acq: 17 Dec 2020 1:46

Tgt Ion: 63 Resp: 2545925

Ion	Ratio	Lower	Upper
63	100		
98	3.9	2.2	6.6
100	2.2	1.5	4.4





#26

Hexane

Concen: 6.074 ppbv m

RT: 5.70 min Scan# 906

Delta R.T. -0.00 min

Lab File: VL036183.D

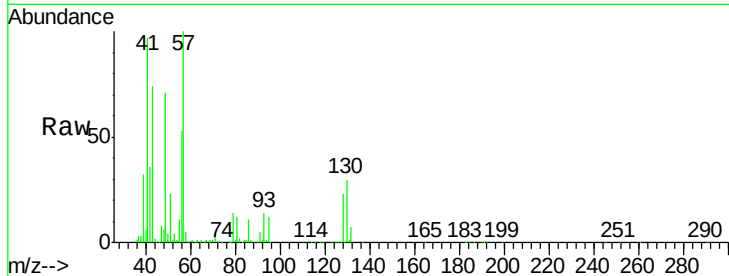
Acq: 17 Dec 2020 1:46

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT



Tgt Ion: 57 Resp: 915604

Ion Ratio Lower Upper

57 100

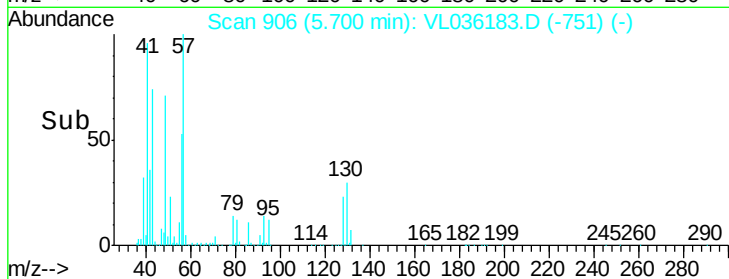
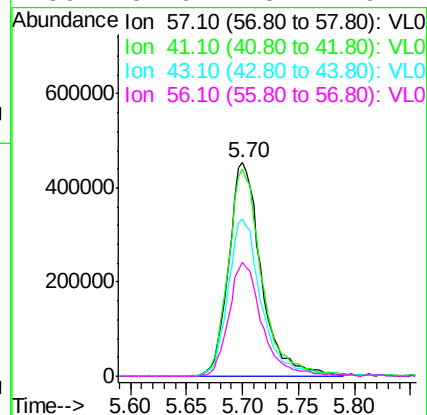
41 100.8 82.9 124.3

43 75.7 199.9 299.9#

56 54.9 43.1 64.7

Manual Integrations
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MMDadoda
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#29

Chloroform

Concen: 0.108 ppbv

RT: 5.77 min Scan# 929

Delta R.T. 0.01 min

Lab File: VL036183.D

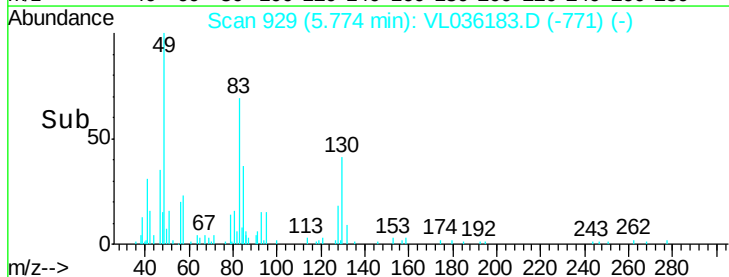
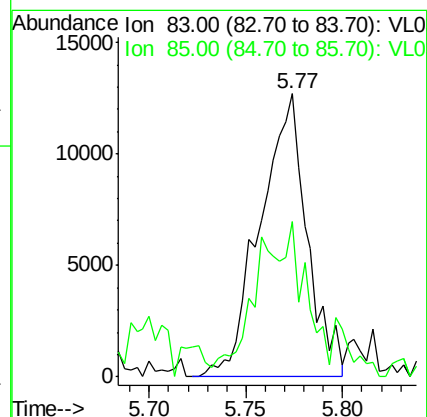
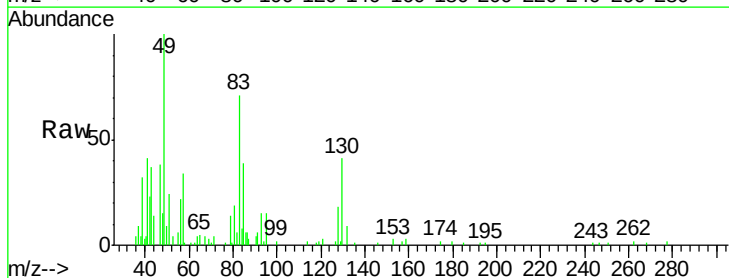
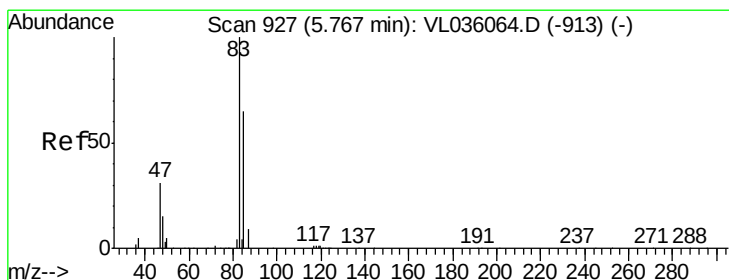
Acq: 17 Dec 2020 1:46

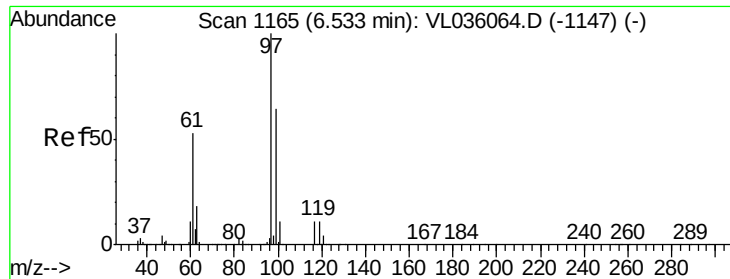
Tgt Ion: 83 Resp: 21455

Ion Ratio Lower Upper

83 100

85 44.3 51.8 77.6#





#32

1,1,1-Trichloroethane

Concen: 72.501 ppbv

RT: 6.53 min Scan# 1163

Delta R.T. -0.01 min

Lab File: VL036183.D

Acq: 17 Dec 2020 1:46

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

Tgt Ion: 97 Resp:14808255

Ion Ratio Lower Upper

97 100

99 72.6 52.4 78.6

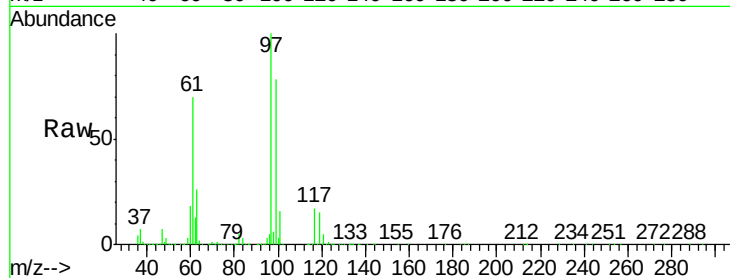
61 64.5 43.4 65.0

Manual Integrations

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MMDadoda

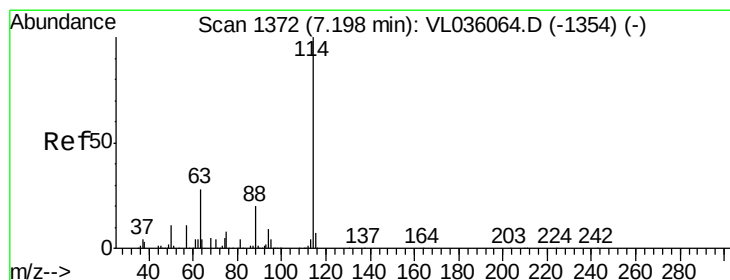
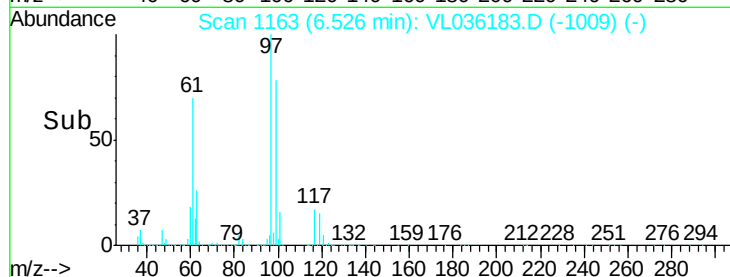
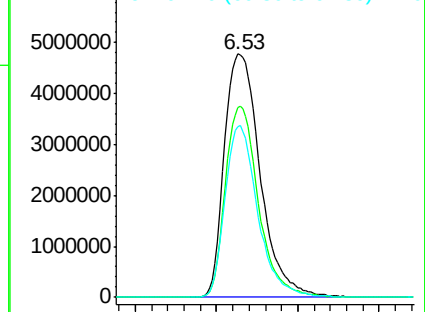
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Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 min Scan# 1371

Delta R.T. -0.00 min

Lab File: VL036183.D

Acq: 17 Dec 2020 1:46

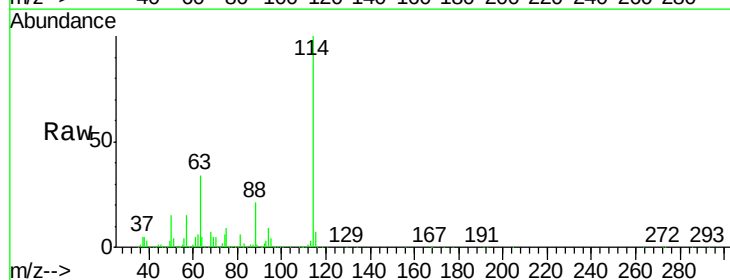
Tgt Ion:114 Resp: 2571819

Ion Ratio Lower Upper

114 100

63 35.0 23.6 35.4

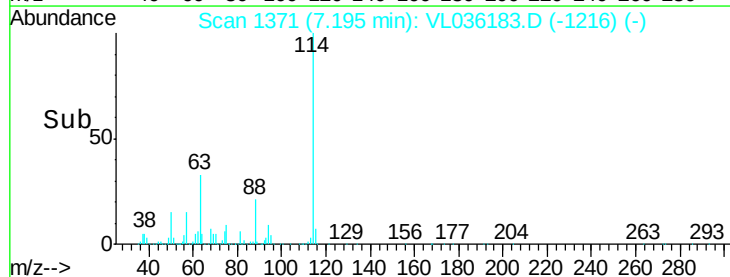
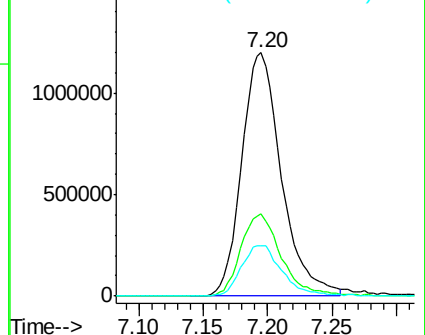
88 21.5 15.8 23.6

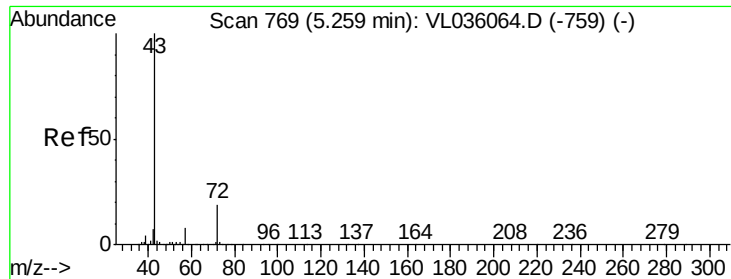


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





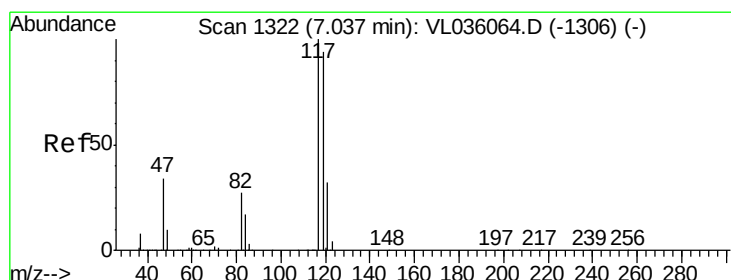
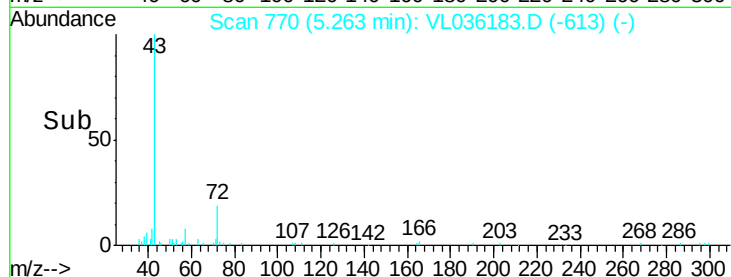
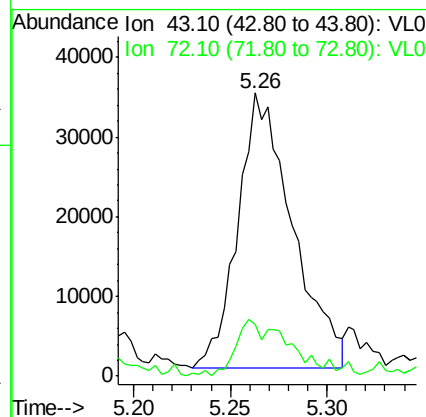
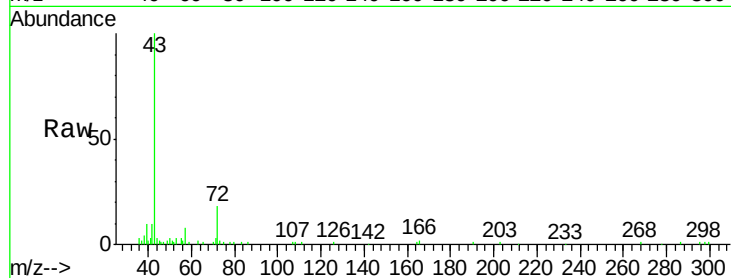
#34
2-Butanone
Concen: 0.398 ppbv
RT: 5.26 min Scan# 770
Delta R.T. 0.00 min
Lab File: VL036183.D
Acq: 17 Dec 2020 1:46

Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

Tgt Ion: 43 Resp: 67829
Ion Ratio Lower Upper
43 100
72 20.9 16.5 24.7

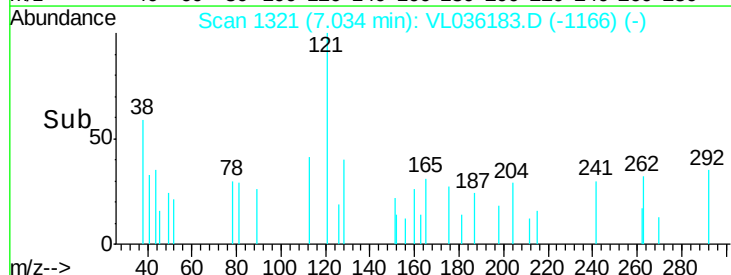
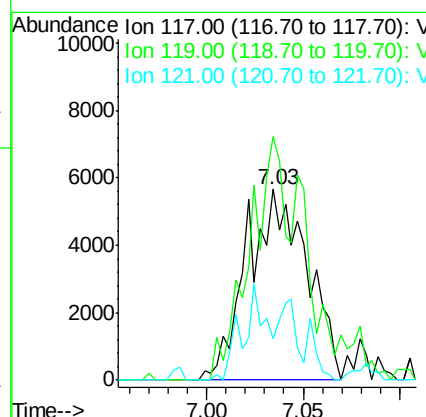
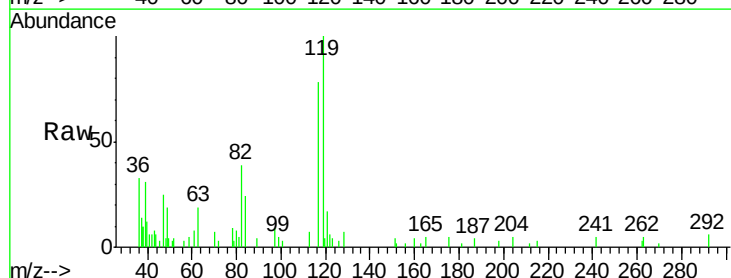
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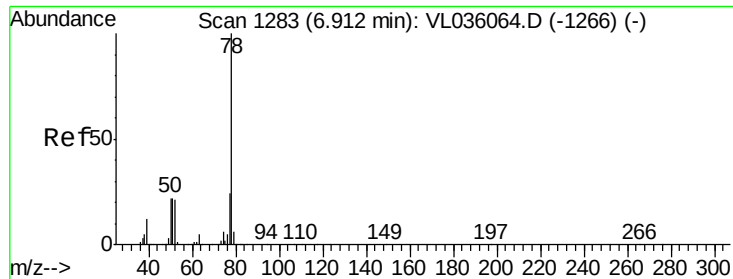
MMDadoda
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#35
Carbon Tetrachloride
Concen: 0.082 ppbv m
RT: 7.03 min Scan# 1321
Delta R.T. -0.00 min
Lab File: VL036183.D
Acq: 17 Dec 2020 1:46

Tgt Ion: 117 Resp: 12348
Ion Ratio Lower Upper
117 100
119 127.7 75.1 112.7#
121 22.0 25.6 38.4#





#36

Benzene

Concen: 0.134 ppbv m

RT: 6.92 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VL036183.D

Acq: 17 Dec 2020 1:46

Instrument :

MSVOA_L

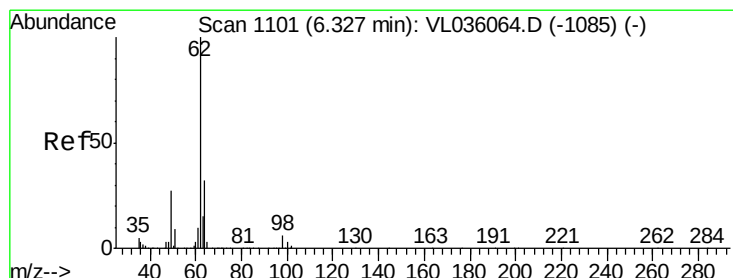
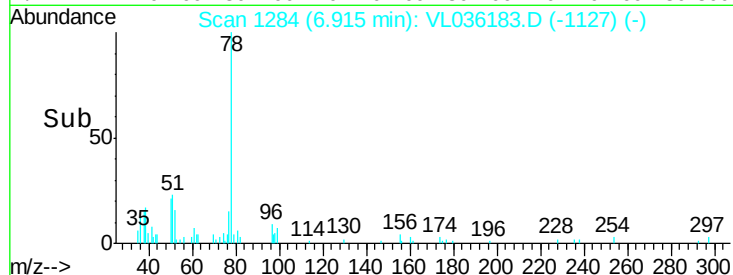
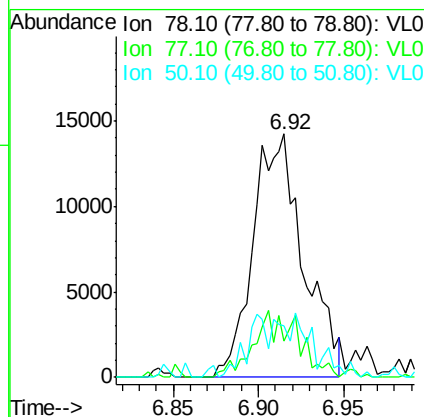
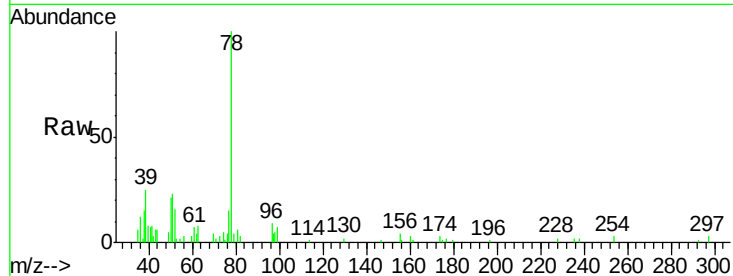
ClientSampleId :

INFLUENT

Tgt Ion:	78	Resp:	29297
Ion Ratio	Lower	Upper	
78	100		
77	15.0	19.4	29.2#
50	21.5	17.8	26.8

Manual Integrations
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#37

1,2-Dichloroethane

Concen: 0.123 ppbv m

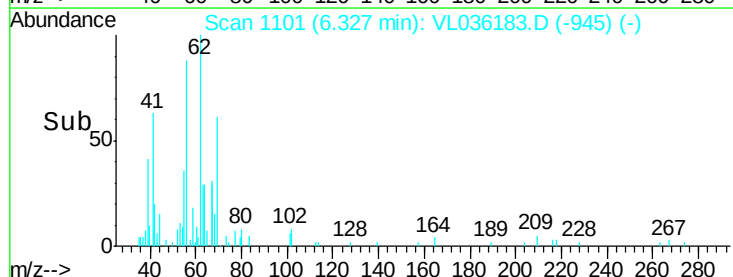
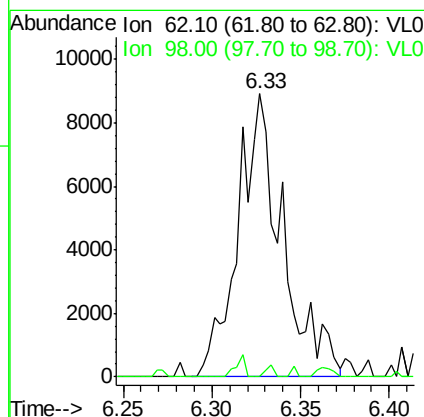
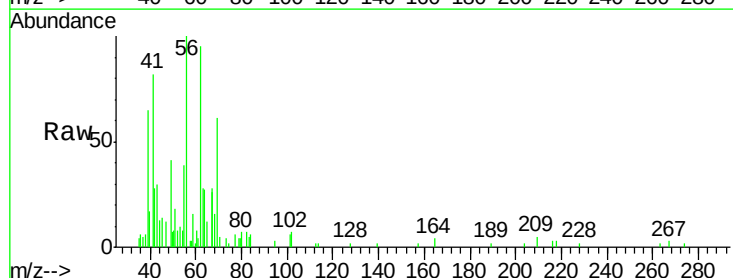
RT: 6.33 min Scan# 1101

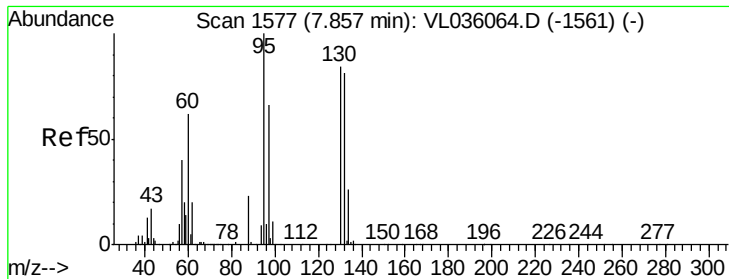
Delta R.T. 0.00 min

Lab File: VL036183.D

Acq: 17 Dec 2020 1:46

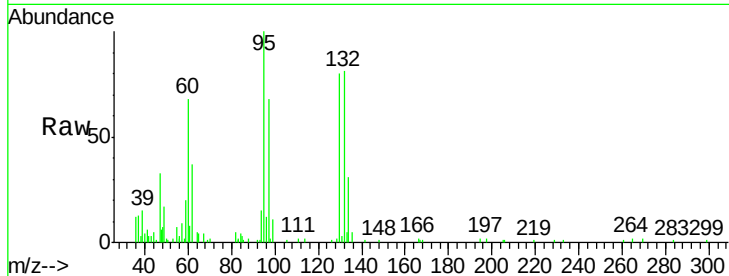
Tgt Ion:	62	Resp:	15511
Ion Ratio	Lower	Upper	
62	100		
98	5207.2	4.6	7.0#





#38
 Trichloroethene
 Concen: 0.401 ppbv m
 RT: 7.85 min Scan# 1576
 Delta R.T. -0.00 min
 Lab File: VL036183.D
 Acq: 17 Dec 2020 1:46

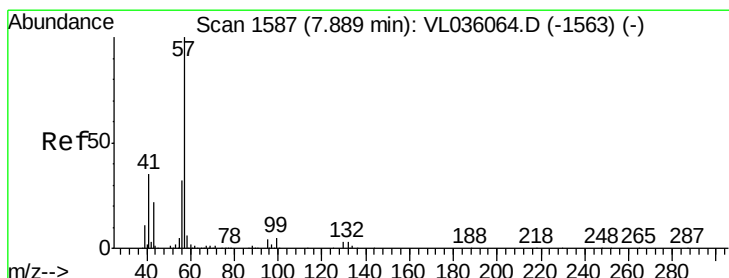
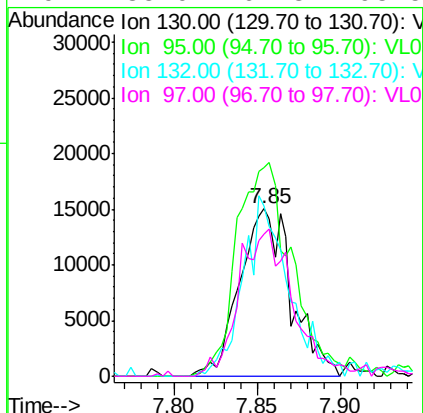
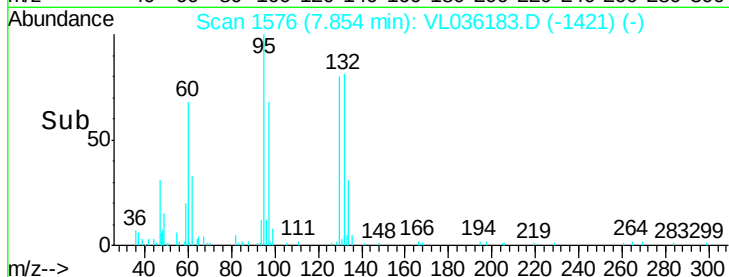
Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT



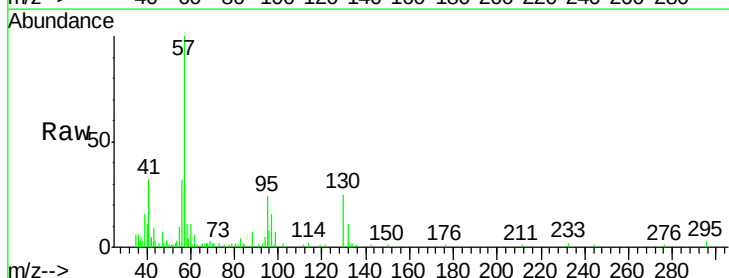
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	32675		
95	124.8	95.2	142.8	
132	101.4	76.9	115.3	
97	85.0	62.3	93.5	

Manual Integrations
 APPROVED

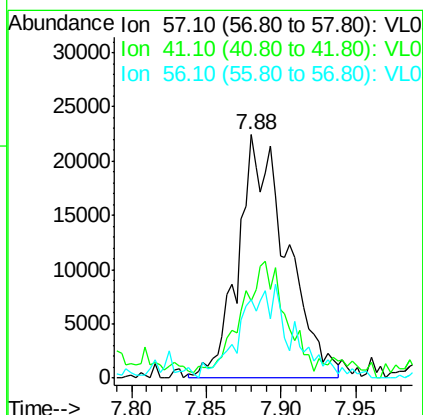
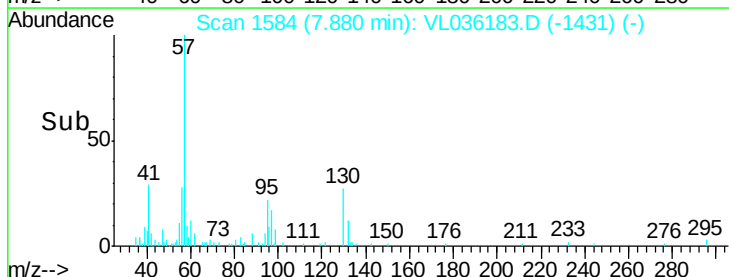
MMDadoda
 12/17/2020 3:56:51 PM

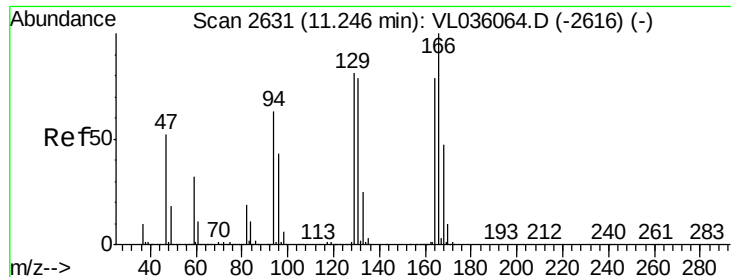


#44
 2,2,4-Trimethylpentane
 Concen: 0.127 ppbv m
 RT: 7.88 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: VL036183.D
 Acq: 17 Dec 2020 1:46



Tgt Ion	Ratio	Resp	Lower	Upper
57	100	50211		
41	0.0	28.9	43.3#	
56	0.0	25.3	37.9#	





#52

Tetrachloroethene

Concen: 0.587 ppbv

RT: 11.24 min Scan# 2630

Delta R.T. -0.00 min

Lab File: VL036183.D

Acq: 17 Dec 2020 1:46

Instrument :

MSVOA_L

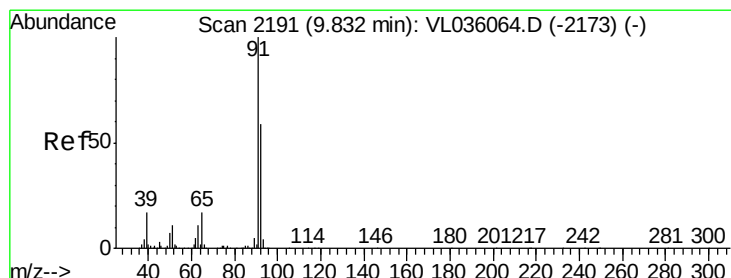
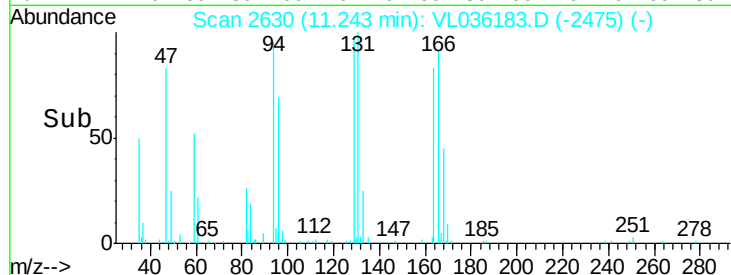
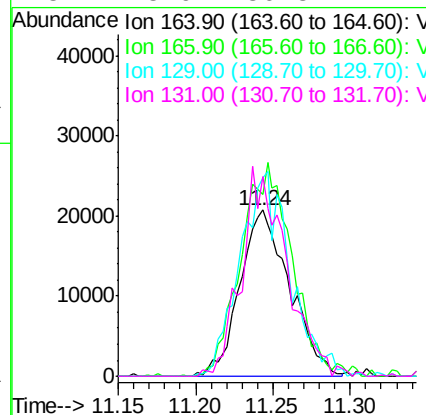
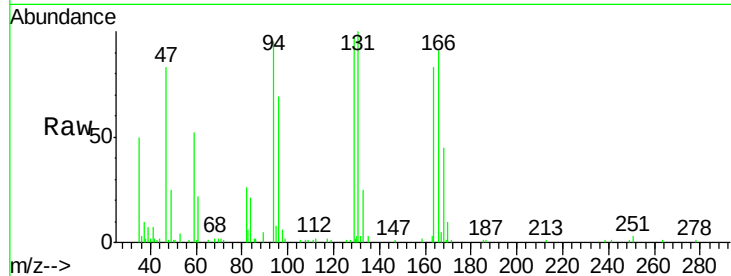
ClientSampleId :

INFLUENT

Tgt Ion:	164	Resp:	46343
Ion Ratio	Lower	Upper	
164	100		
166	109.3	101.9	152.9
129	119.5	82.1	123.1
131	123.9	80.8	121.2#

Manual Integrations
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#53

Toluene

Concen: 1.504 ppbv m

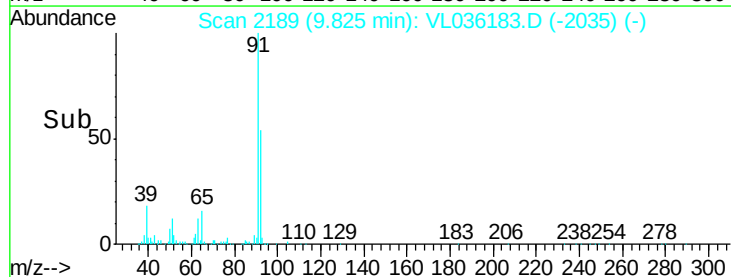
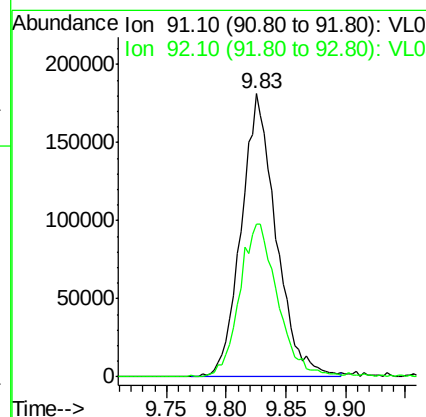
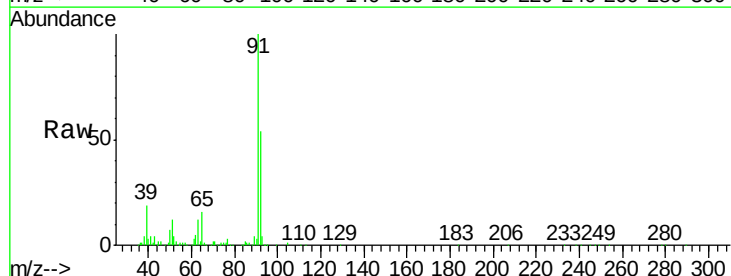
RT: 9.83 min Scan# 2189

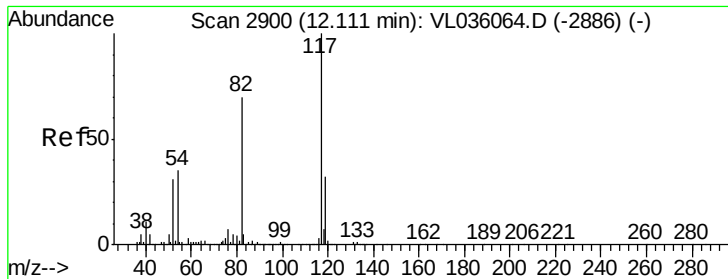
Delta R.T. -0.01 min

Lab File: VL036183.D

Acq: 17 Dec 2020 1:46

Tgt Ion:	91	Resp:	368037
Ion Ratio	Lower	Upper	
91	100		
92	59.6	48.2	72.2





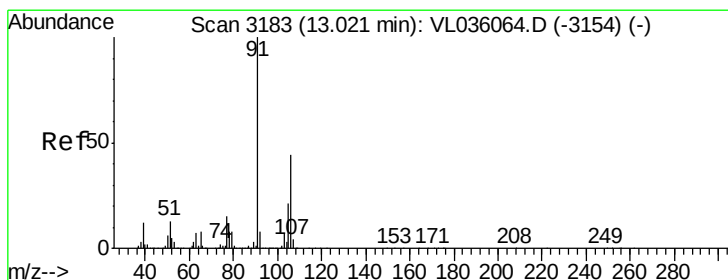
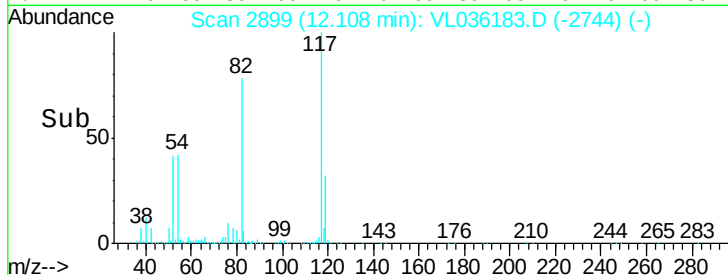
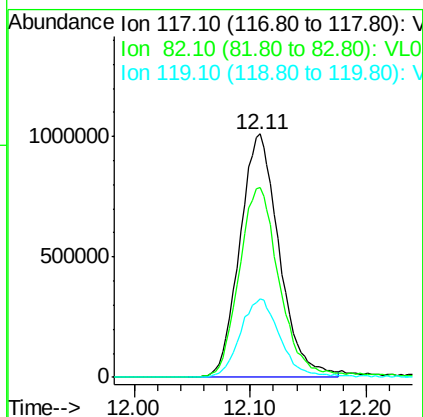
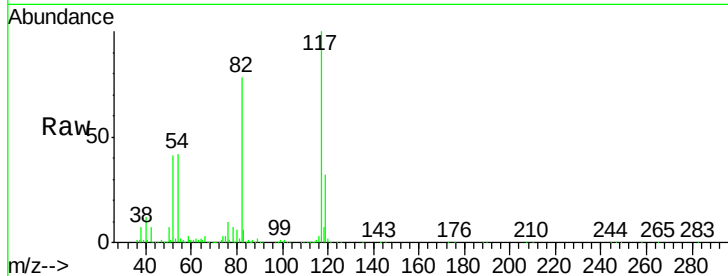
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.00 min
Lab File: VL036183.D
Acq: 17 Dec 2020 1:46

Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

Tgt Ion: 117 Resp: 2388463
Ion Ratio Lower Upper
117 100
82 81.3 0.0 0.0#
119 33.1 0.0 0.0#

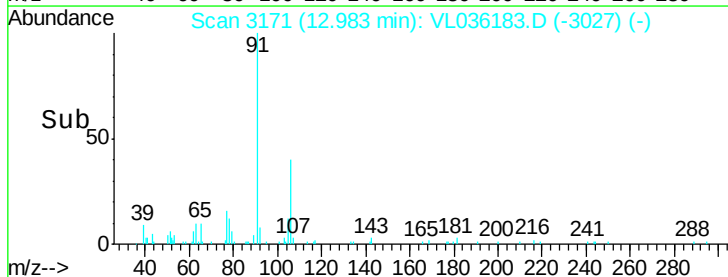
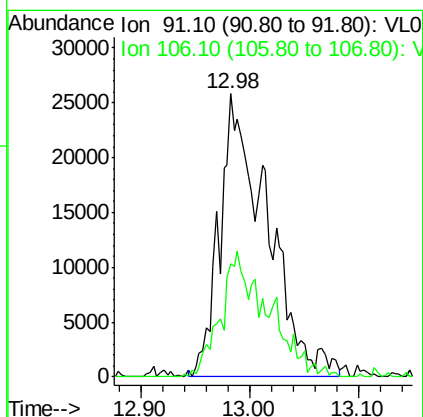
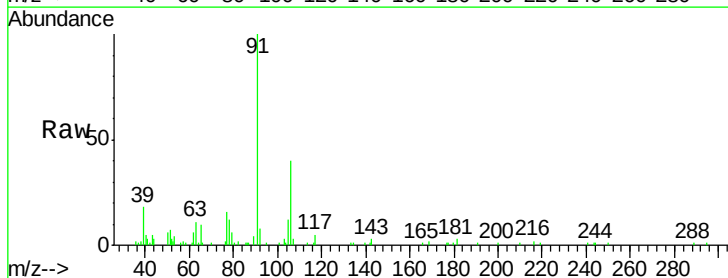
Manual Integrations
APPROVED

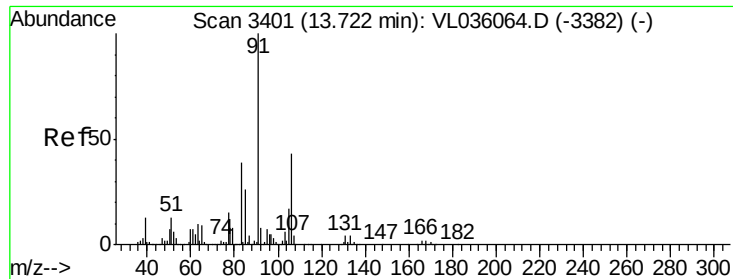
MMDadoda
12/17/2020 3:56:51 PM



#59
m/p-Xylene
Concen: 0.284 ppbv m
RT: 12.98 min Scan# 3171
Delta R.T. -0.04 min
Lab File: VL036183.D
Acq: 17 Dec 2020 1:46

Tgt Ion: 91 Resp: 78218
Ion Ratio Lower Upper
91 100
106 0.0 33.6 50.4#





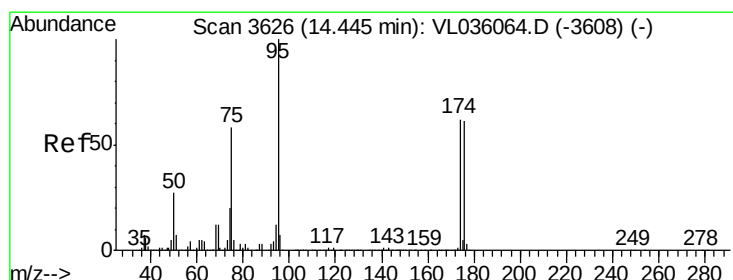
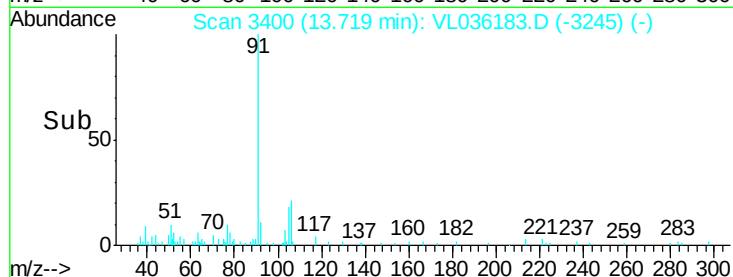
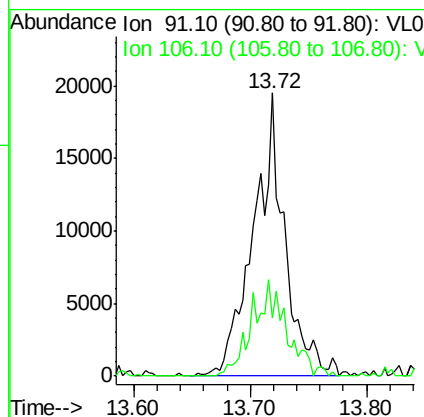
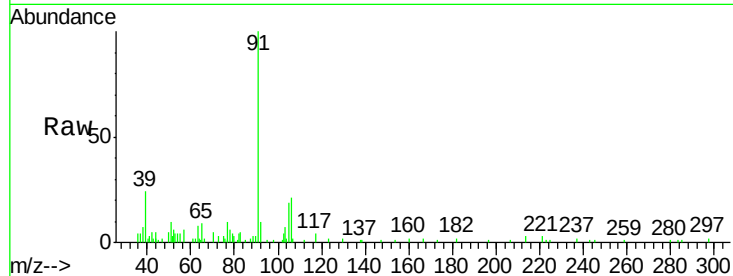
#60
o-Xylene
Concen: 0.139 ppbv m
RT: 13.72 min Scan# 3400
Delta R.T. -0.00 min
Lab File: VL036183.D
Acq: 17 Dec 2020 1:46

Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

Tgt Ion: 91 Resp: 36142
Ion Ratio Lower Upper
91 100
106 37.2 21.6 64.6

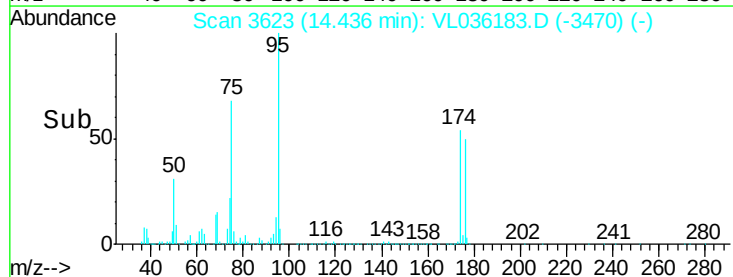
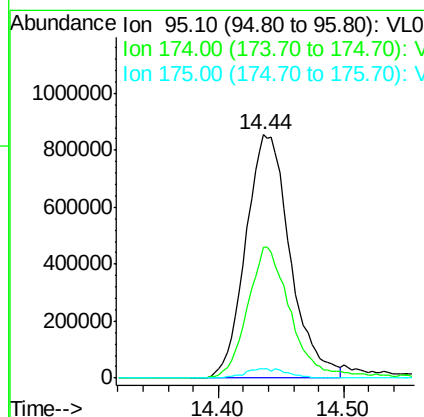
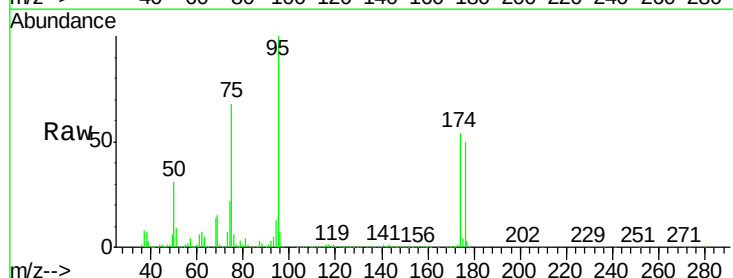
Manual Integrations
APPROVED

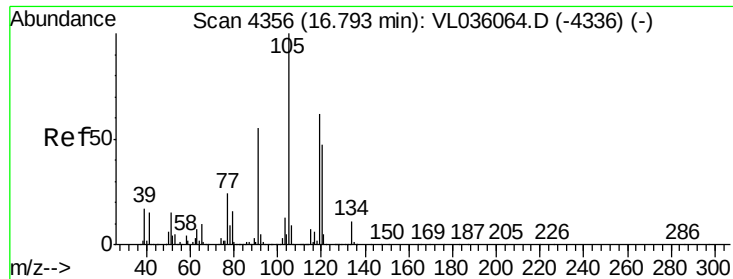
MMDadoda
12/17/2020 3:56:51 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 11.069 ppbv
RT: 14.44 min Scan# 3623
Delta R.T. -0.01 min
Lab File: VL036183.D
Acq: 17 Dec 2020 1:46

Tgt Ion: 95 Resp: 2099327
Ion Ratio Lower Upper
95 100
174 53.4 50.7 76.1
175 3.9 4.0 6.0#





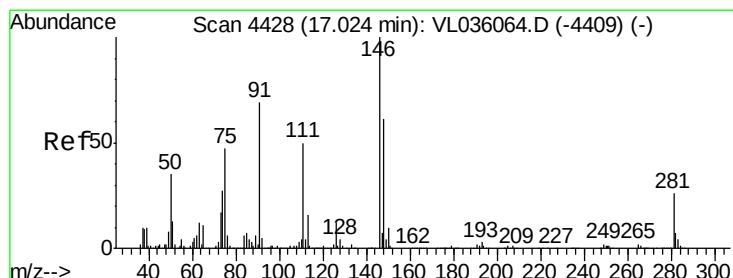
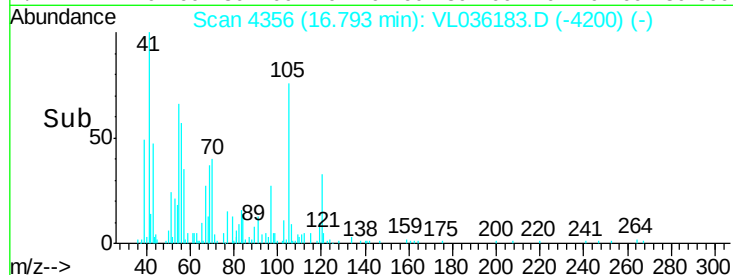
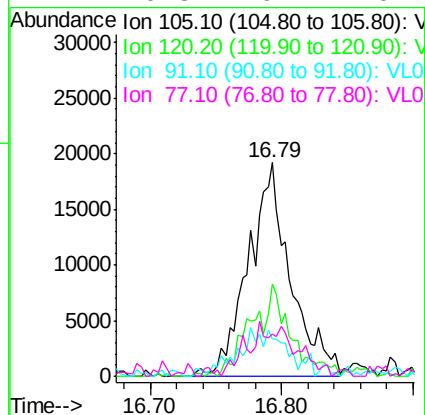
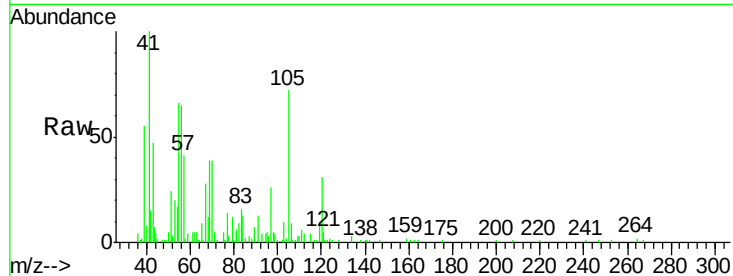
#74
 1,2,4-Trimethylbenzene
 Concen: 0.158 ppbv m
 RT: 16.79 min Scan# 4356
 Delta R.T. 0.00 min
 Lab File: VL036183.D
 Acq: 17 Dec 2020 1:46

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT

Tgt Ion:	105	Resp:	42558
Ion Ratio	Lower	Upper	
105	100		
120	43.4	37.4	56.0
91	17.3	45.6	68.4#
77	19.8	19.4	29.2

Manual Integrations
 APPROVED

MMDadoda
 12/17/2020 3:56:51 PM



#75
 1,3-Dichlorobenzene
 Concen: 1.068 ppbv m
 RT: 17.02 min Scan# 4427
 Delta R.T. -0.00 min
 Lab File: VL036183.D
 Acq: 17 Dec 2020 1:46

Tgt Ion:	146	Resp:	144154
Ion Ratio	Lower	Upper	
146	100		
111	94.4	25.1	75.3#
148	83.2	32.9	98.6

