

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL121620\
 Data File : VL036184.D
 Acq On : 17 Dec 2020 2:27
 Operator : SY/AP
 Sample : L5041-02
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

Manual Integrations
 APPROVED

MMDadoda
 12/17/2020 3:56:53 PM

Quant Time: Dec 17 07:40:52 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	1362400	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2606395	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2321185	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2113080	11.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	114.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	46671	0.294	ppbv	98
3) Chlorodifluoromethane	3.00	51	55080	0.354	ppbv	98
4) Chloromethane	3.15	50	41999	0.550	ppbv	94
9) Propene	3.02	41	47696m	0.613	ppbv	
11) Trichlorofluoromethane	3.96	101	43516	0.233	ppbv	91
13) Ethanol	3.61	45	177831m	16.566	ppbv	
15) Acetone	3.86	43	609203	3.721	ppbv	97
19) Isopropyl Alcohol	3.98	45	483822m	4.834	ppbv	
20) Methylene Chloride	4.35	84	184238	2.746	ppbv	92
24) 1,1-Dichloroethane	5.03	63	15584m	0.102	ppbv	
26) Hexane	5.70	57	186673	1.268	ppbv #	39
32) 1,1,1-Trichloroethane	6.53	97	7754m	0.039	ppbv	
34) 2-Butanone	5.27	43	25335m	0.147	ppbv	
35) Carbon Tetrachloride	7.03	117	11328m	0.075	ppbv	
36) Benzene	6.91	78	28740m	0.130	ppbv	
44) 2,2,4-Trimethylpentane	7.89	57	65593m	0.164	ppbv	
53) Toluene	9.83	91	57383	0.231	ppbv	96
59) m/p-Xylene	12.99	91	45745m	0.171	ppbv	
74) 1,2,4-Trimethylbenzene	16.79	105	45879m	0.175	ppbv	

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

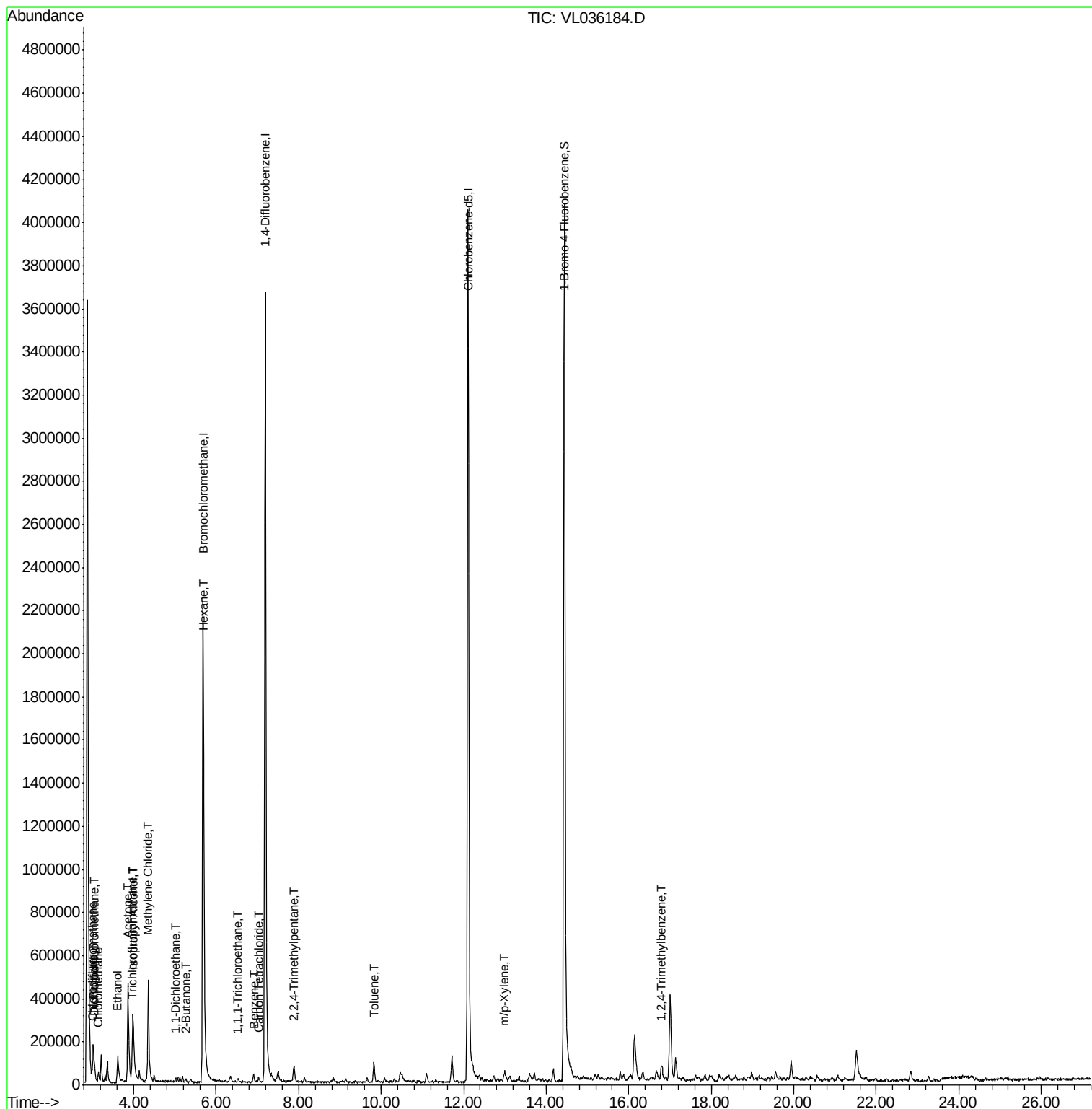
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL121620\
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Acq On : 17 Dec 2020 2:27
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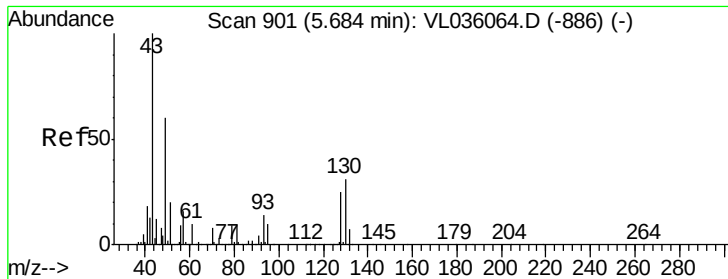
Instrument :
MSVOA_L
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Quant Time: Dec 17 07:40:52 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.01 min

Lab File: VL036184.D

Acq: 17 Dec 2020 2:27

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

Tgt Ion: 49 Resp: 1362400

Ion Ratio Lower Upper

49 100

128 35.8 21.1 63.1

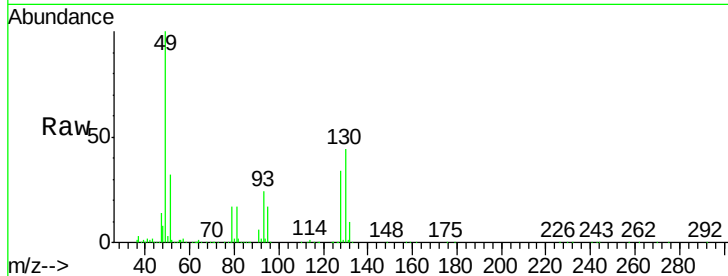
130 46.2 27.1 81.3

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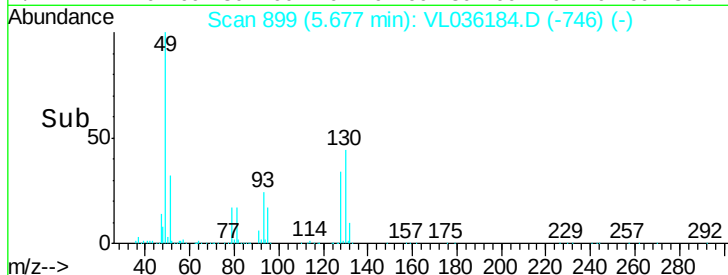


Abundance Ion 49.10 (48.80 to 49.80): VL0

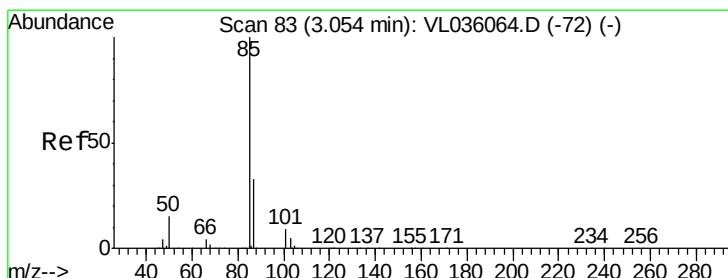
Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

Time-->



Time-->



#2

Dichlorodifluoromethane

Concen: 0.294 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.00 min

Lab File: VL036184.D

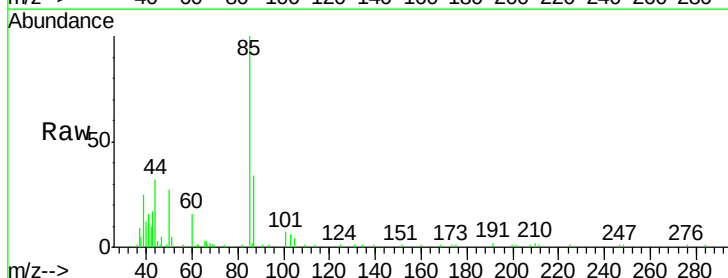
Acq: 17 Dec 2020 2:27

Tgt Ion: 85 Resp: 46671

Ion Ratio Lower Upper

85 100

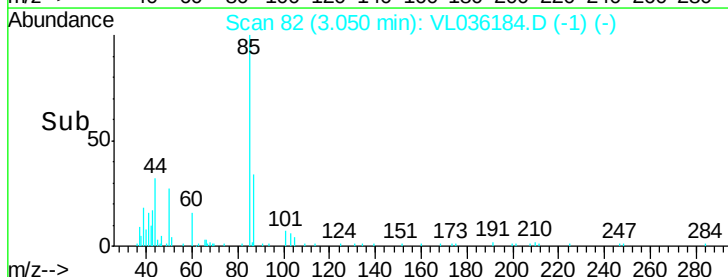
87 31.7 26.5 39.7



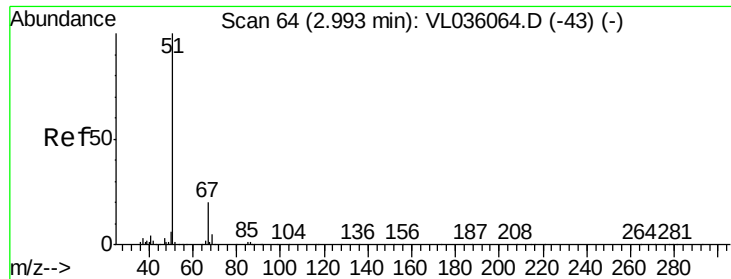
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Time-->



Time-->



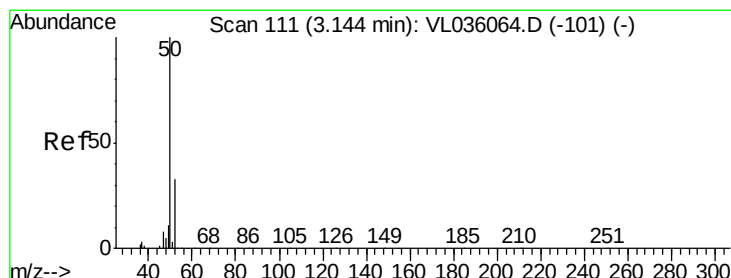
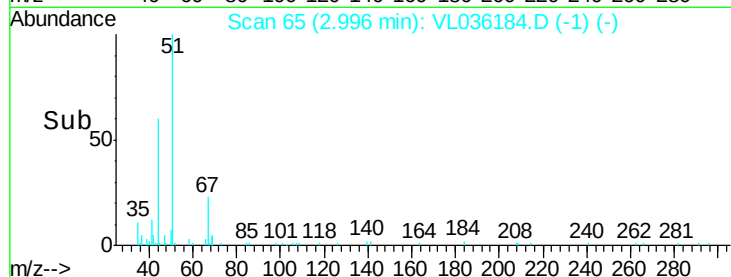
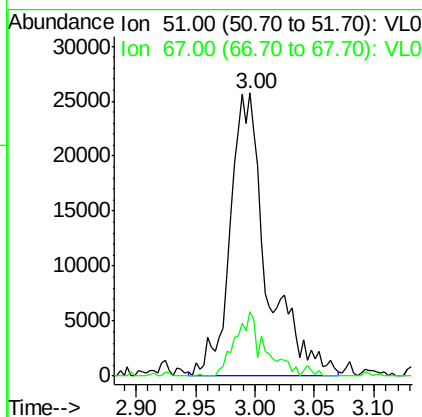
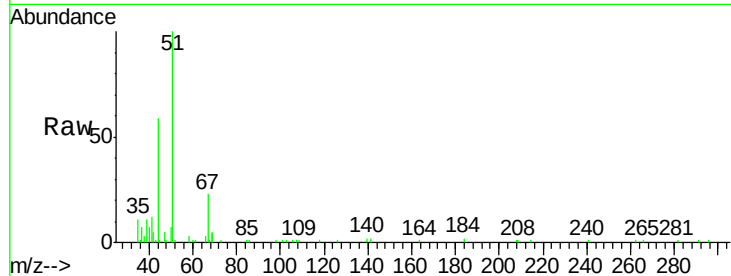
#3
Chlorodifluoromethane
Concen: 0.354 ppbv
RT: 3.00 min Scan# 65
Delta R.T. 0.00 min
Lab File: VL036184.D
Acq: 17 Dec 2020 2:27

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

Tgt Ion	Ratio	Lower	Upper
51	100		
67	18.9	14.3	21.5

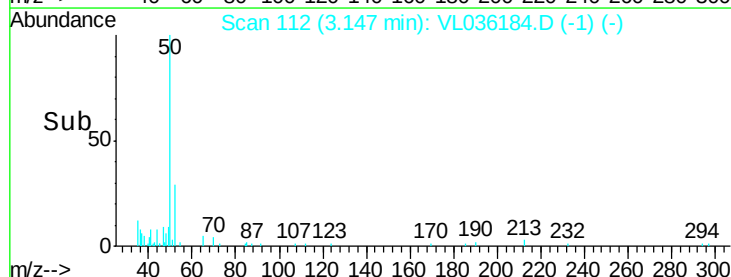
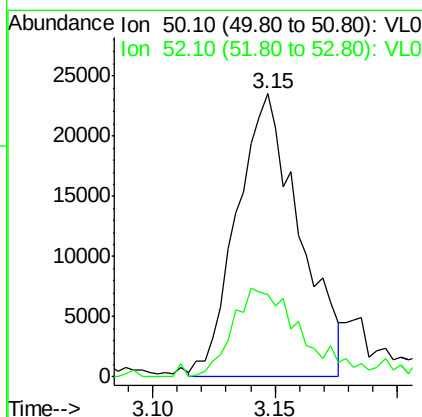
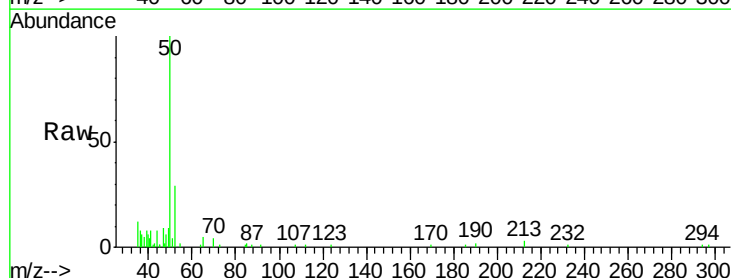
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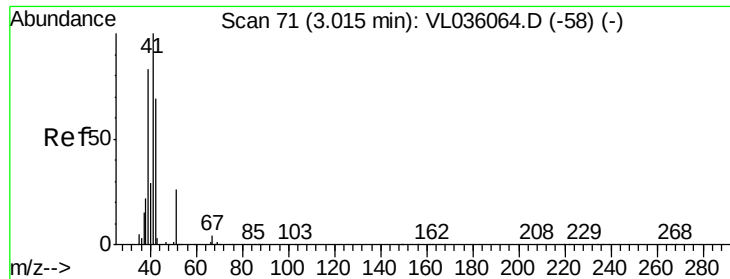
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#4
Chloromethane
Concen: 0.550 ppbv
RT: 3.15 min Scan# 112
Delta R.T. 0.00 min
Lab File: VL036184.D
Acq: 17 Dec 2020 2:27

Tgt Ion	Ratio	Lower	Upper
50	100		
52	29.5	26.1	39.1





#9

Propene

Concen: 0.613 ppbv m

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL036184.D

Acq: 17 Dec 2020 2:27

Instrument :

MSVOA_L

ClientSampled :

EFFLUENT

Tgt Ion: 41 Resp: 47696

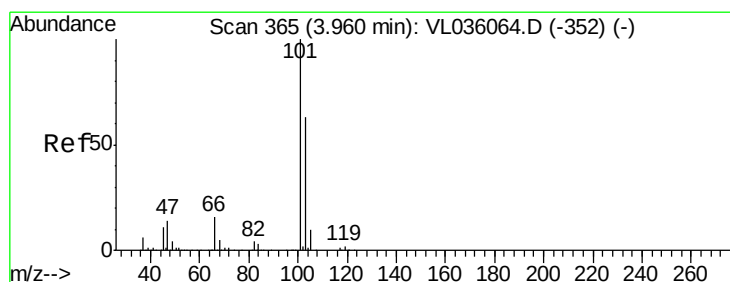
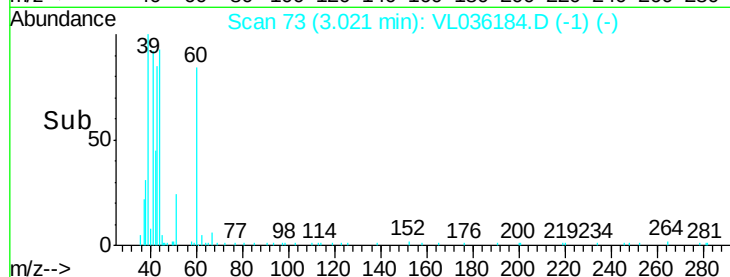
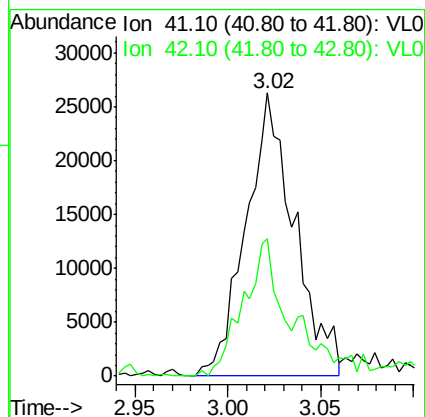
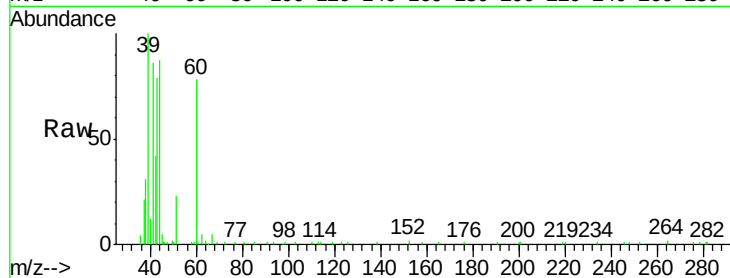
Ion Ratio Lower Upper

41 100

42 48.8 57.0 85.6#

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#11

Trichlorofluoromethane

Concen: 0.233 ppbv

RT: 3.96 min Scan# 364

Delta R.T. -0.00 min

Lab File: VL036184.D

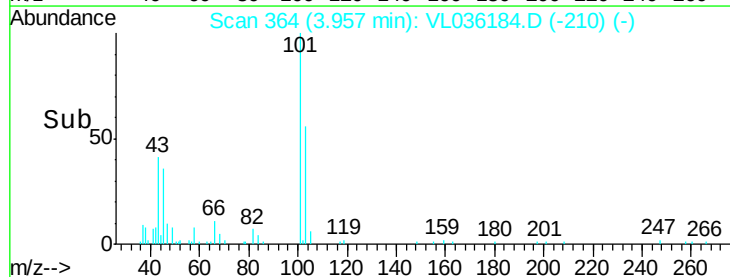
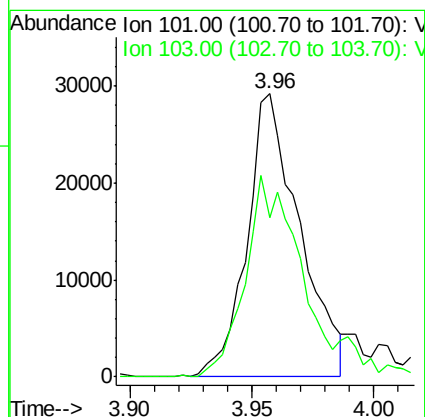
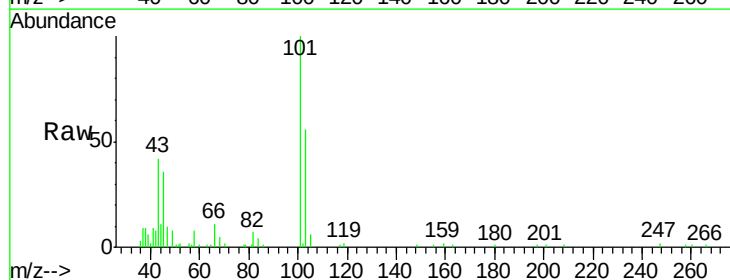
Acq: 17 Dec 2020 2:27

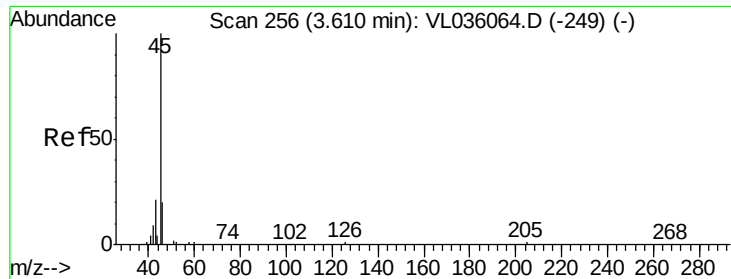
Tgt Ion: 101 Resp: 43516

Ion Ratio Lower Upper

101 100

103 56.1 50.3 75.5





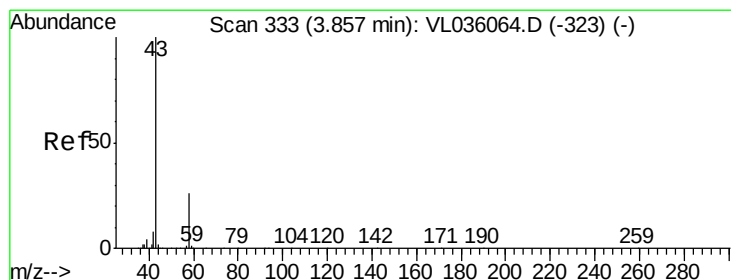
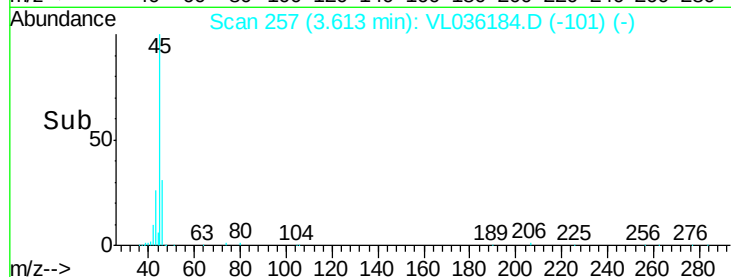
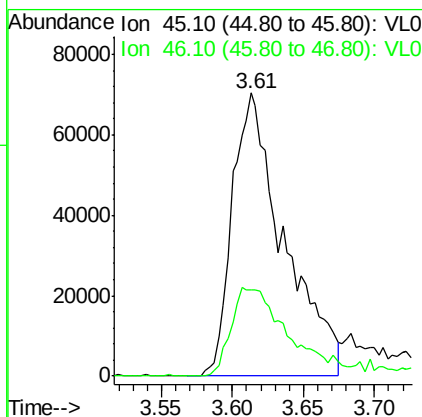
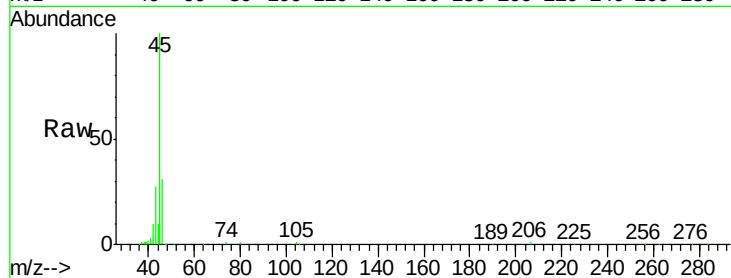
#13
Ethanol
Concen: 16.566 ppbv m
RT: 3.61 min Scan# 257
Delta R.T. 0.00 min
Lab File: VL036184.D
Acq: 17 Dec 2020 2:27

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

Tgt Ion: 45 Resp: 177831
Ion Ratio Lower Upper
45 100
46 35.4 19.0 75.8

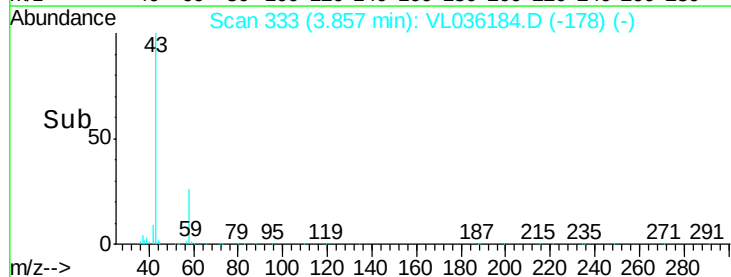
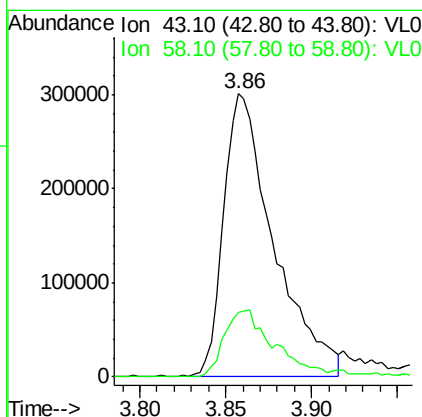
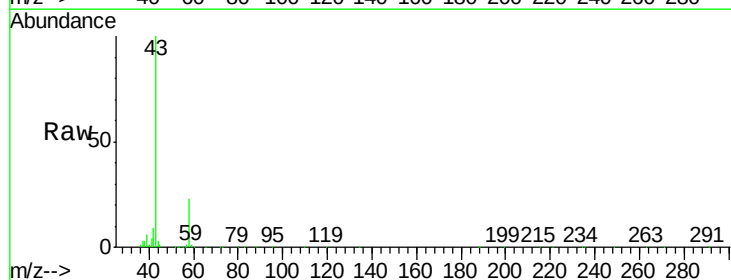
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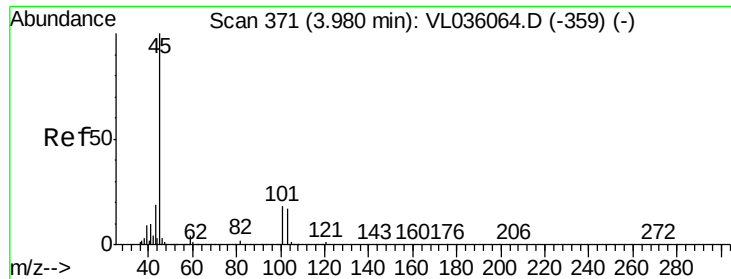
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#15
Acetone
Concen: 3.721 ppbv
RT: 3.86 min Scan# 333
Delta R.T. -0.00 min
Lab File: VL036184.D
Acq: 17 Dec 2020 2:27

Tgt Ion: 43 Resp: 609203
Ion Ratio Lower Upper
43 100
58 24.7 20.9 31.3





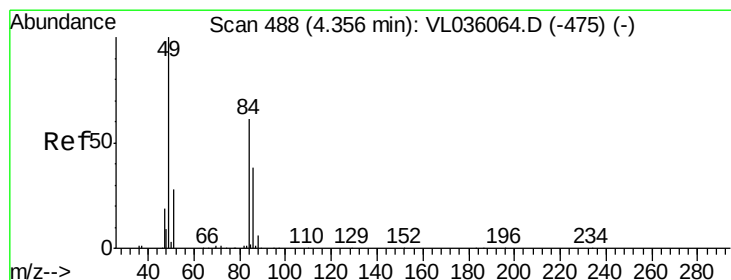
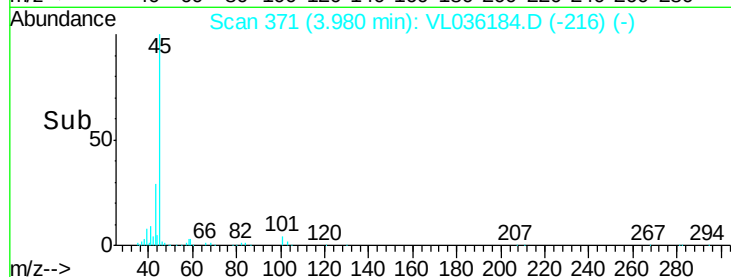
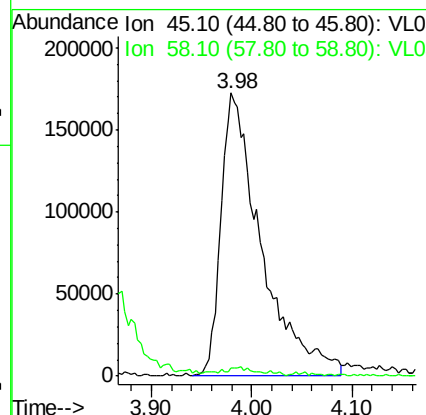
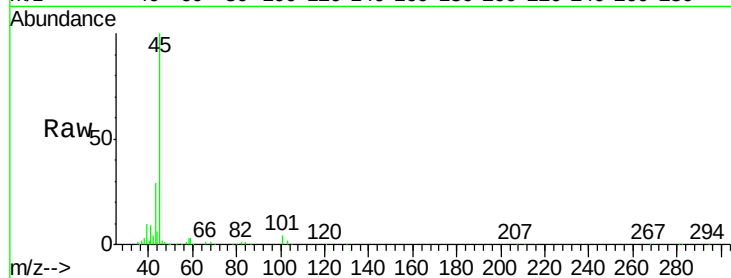
#19
Isopropyl Alcohol
Concen: 4.834 ppbv m
RT: 3.98 min Scan# 371
Delta R.T. -0.00 min
Lab File: VL036184.D
Acq: 17 Dec 2020 2:27

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

Tgt Ion: 45 Resp: 483822
Ion Ratio Lower Upper
45 100
58 2.2 0.0 0.0#

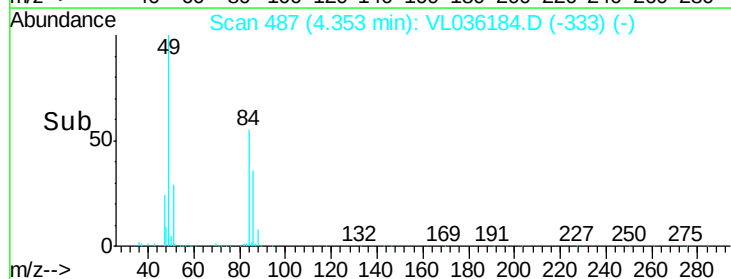
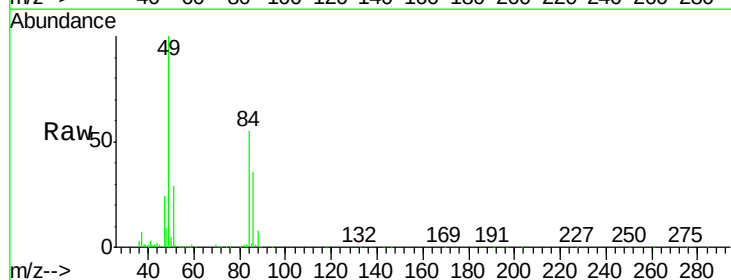
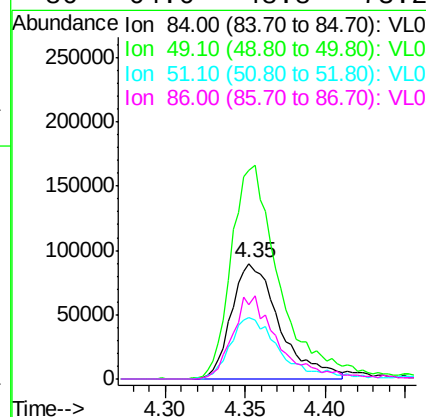
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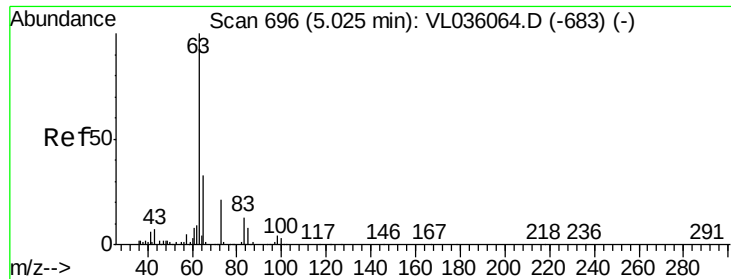
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#20
Methylene Chloride
Concen: 2.746 ppbv
RT: 4.35 min Scan# 487
Delta R.T. -0.00 min
Lab File: VL036184.D
Acq: 17 Dec 2020 2:27

Tgt Ion: 84 Resp: 184238
Ion Ratio Lower Upper
84 100
49 179.7 133.0 199.4
51 52.3 38.9 58.3
86 64.6 48.8 73.2





#24

1,1-Dichloroethane

Concen: 0.102 ppbv

RT: 5.03 min Scan# 697

Delta R.T. 0.00 min

Lab File: VL036184.D

Acq: 17 Dec 2020 2:27

Instrument :

MSVOA_L

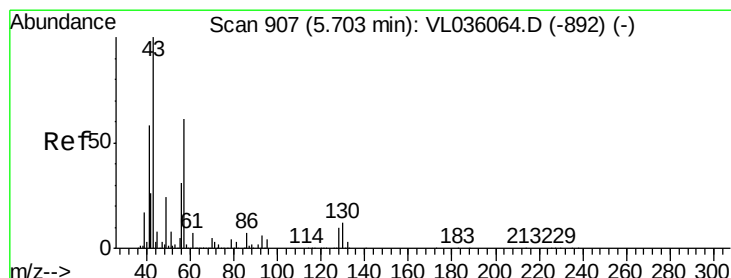
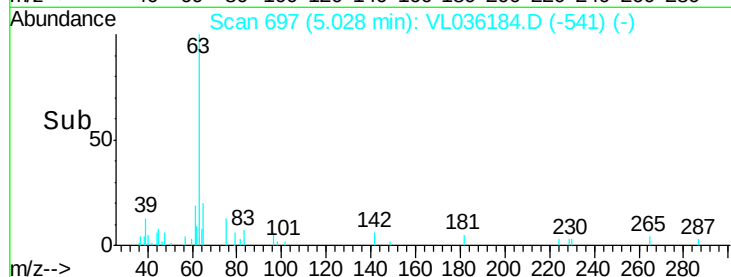
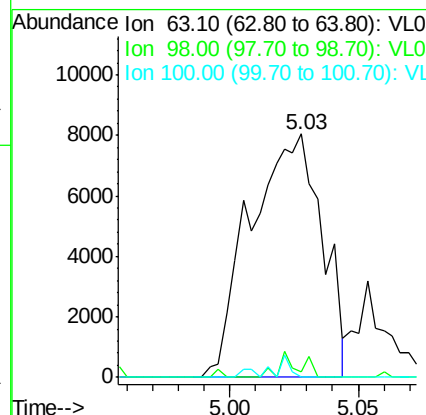
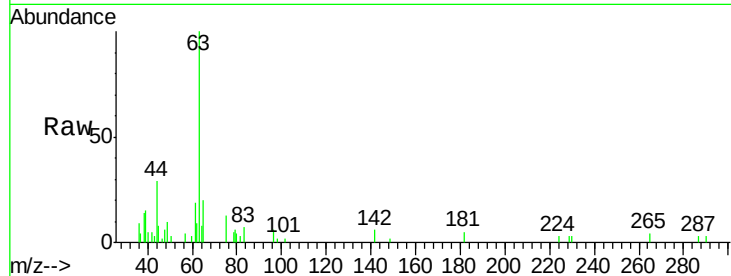
ClientSampled :

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Tgt Ion:	63	Resp:	15584
Ion Ratio	Lower	Upper	
63	100		
98	2.1	2.2	6.6#
100	0.0	1.5	4.4#

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#26

Hexane

Concen: 1.268 ppbv

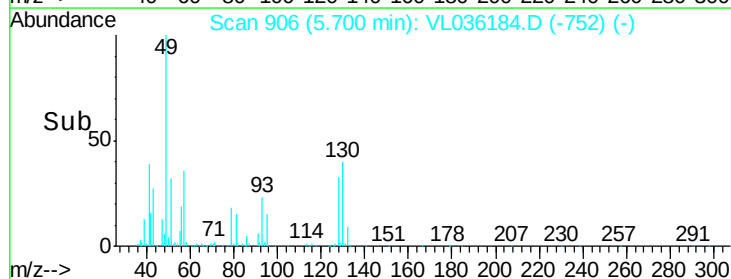
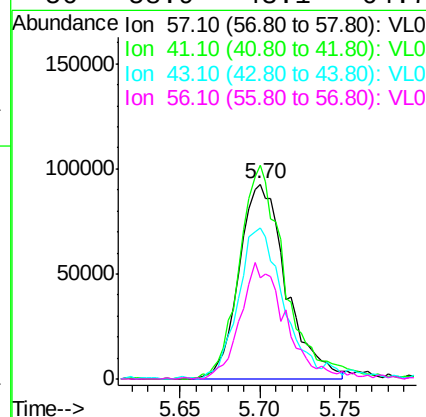
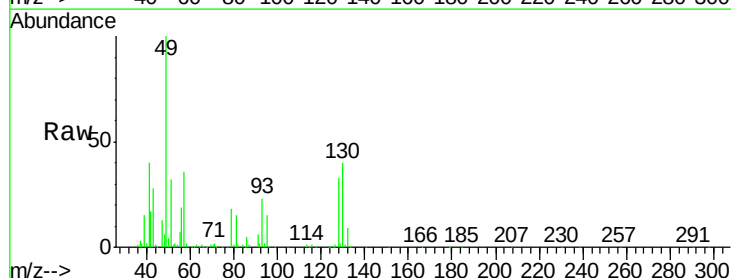
RT: 5.70 min Scan# 906

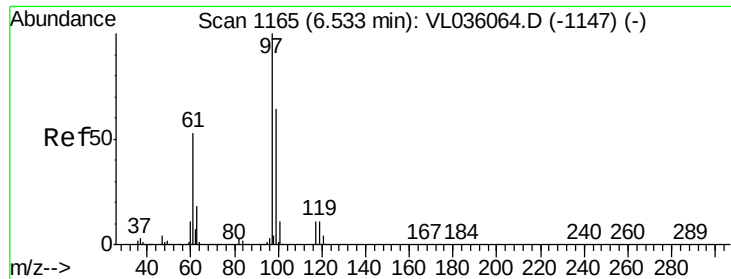
Delta R.T. -0.00 min

Lab File: VL036184.D

Acq: 17 Dec 2020 2:27

Tgt Ion:	57	Resp:	186673
Ion Ratio	Lower	Upper	
57	100		
41	107.6	82.9	124.3
43	80.6	199.9	299.9#
56	58.9	43.1	64.7





#32

1,1,1-Trichloroethane

Concen: 0.039 ppbv m

RT: 6.53 min Scan# 1165

Delta R.T. -0.00 min

Lab File: VL036184.D

Acq: 17 Dec 2020 2:27

Instrument :

MSVOA_L

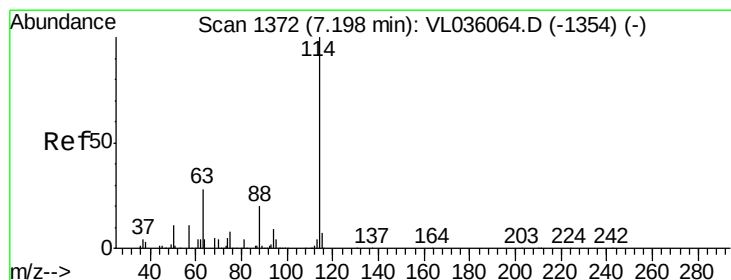
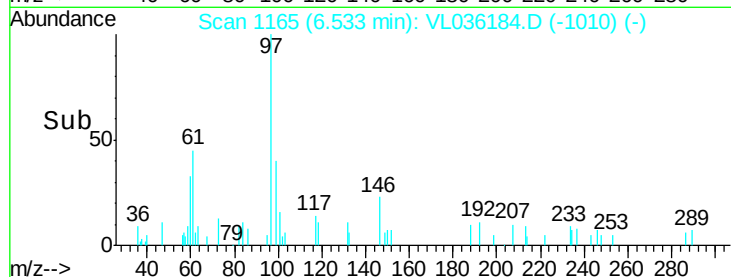
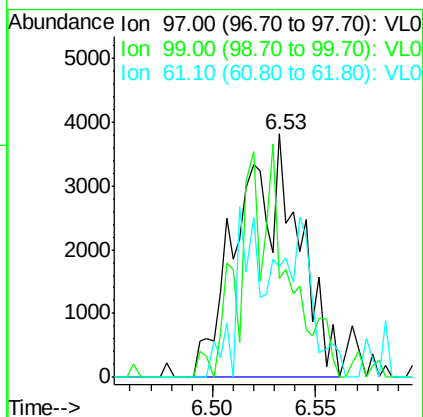
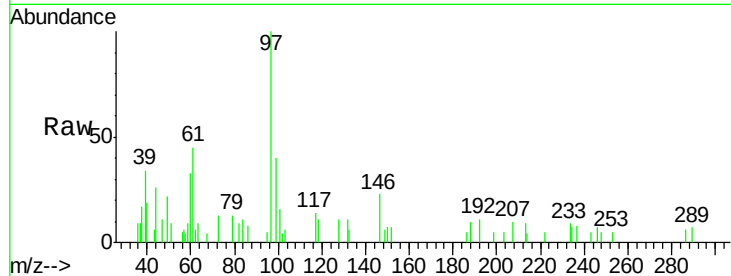
ClientSampleId :

EFFLUENT

Tgt Ion:	97	Resp:	7754
Ion	Ratio	Lower	Upper
97	100		
99	73.9	52.4	78.6
61	0.0	43.4	65.0#

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

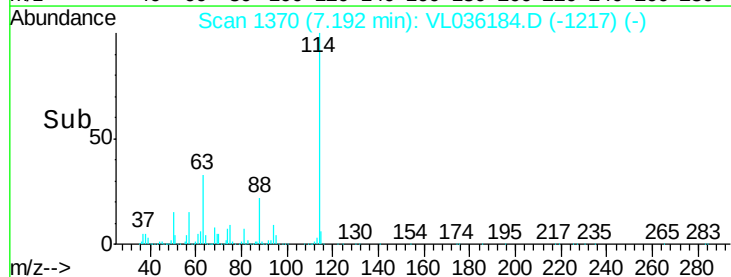
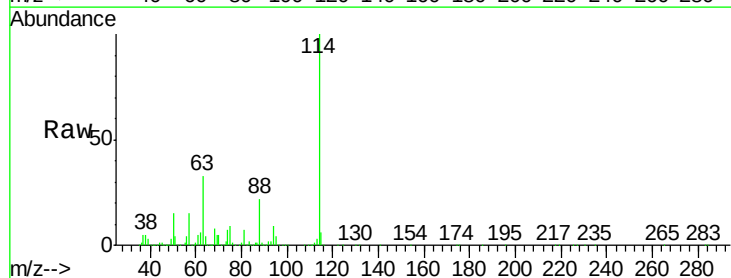
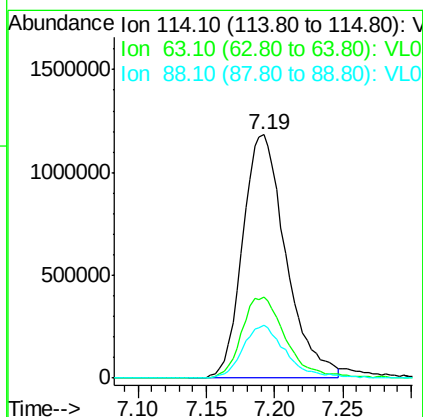
RT: 7.19 min Scan# 1370

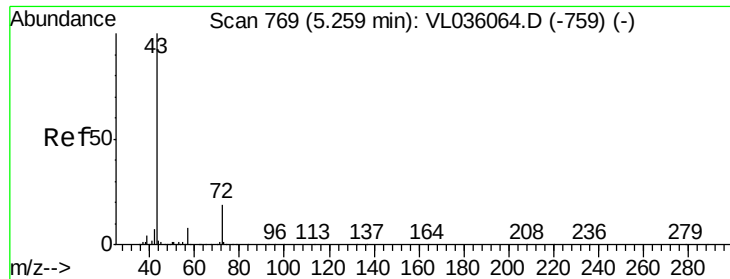
Delta R.T. -0.01 min

Lab File: VL036184.D

Acq: 17 Dec 2020 2:27

Tgt Ion:	114	Resp:	2606395
Ion	Ratio	Lower	Upper
114	100		
63	34.5	23.6	35.4
88	21.9	15.8	23.6





#34

2-Butanone

Concen: 0.147 ppbv m

RT: 5.27 min Scan# 772

Delta R.T. 0.01 min

Lab File: VL036184.D

Acq: 17 Dec 2020 2:27

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

Tgt Ion: 43 Resp: 25335

Ion Ratio Lower Upper

43 100

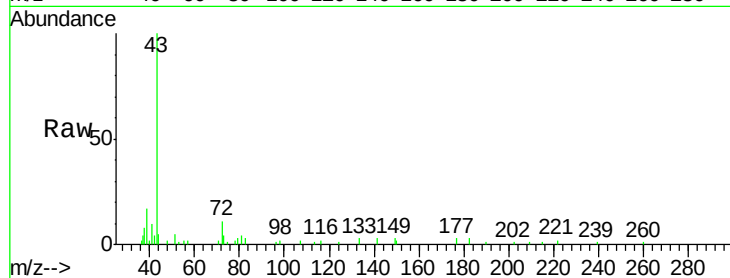
72 22.6 16.5 24.7

Manual Integrations

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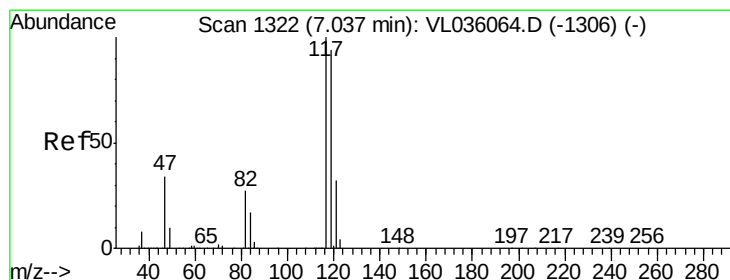
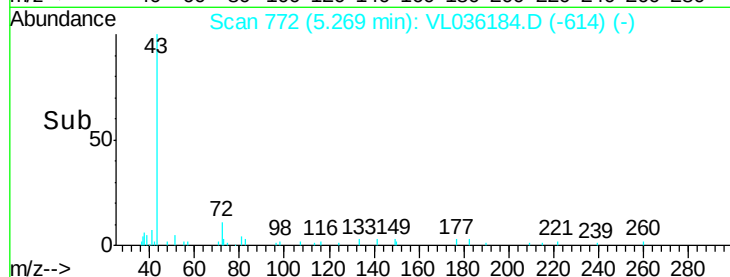
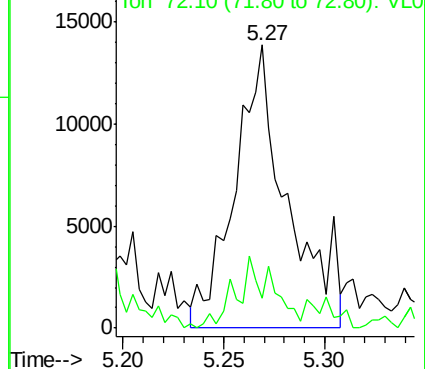
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.075 ppbv m

RT: 7.03 min Scan# 1321

Delta R.T. -0.00 min

Lab File: VL036184.D

Acq: 17 Dec 2020 2:27

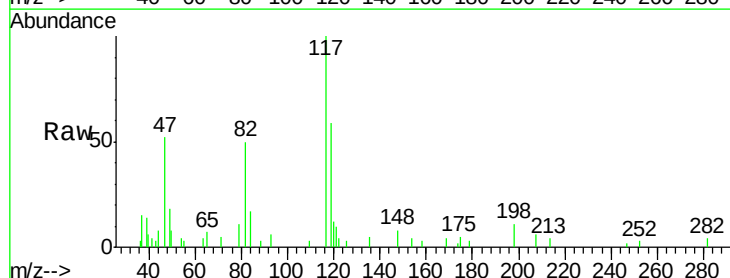
Tgt Ion: 117 Resp: 11328

Ion Ratio Lower Upper

117 100

119 59.2 75.1 112.7#

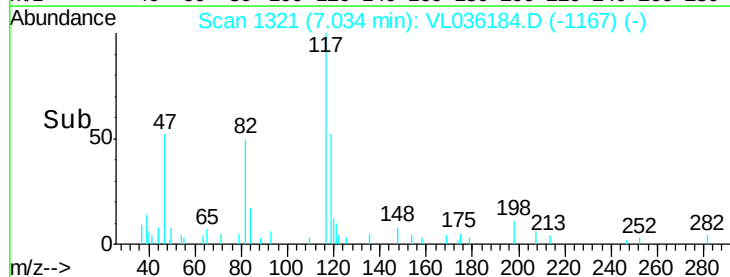
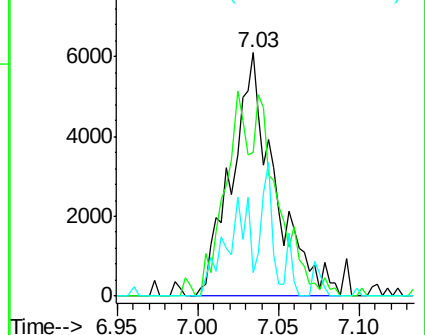
121 9.8 25.6 38.4#

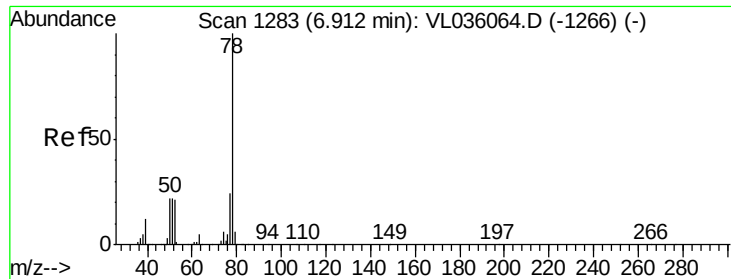


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

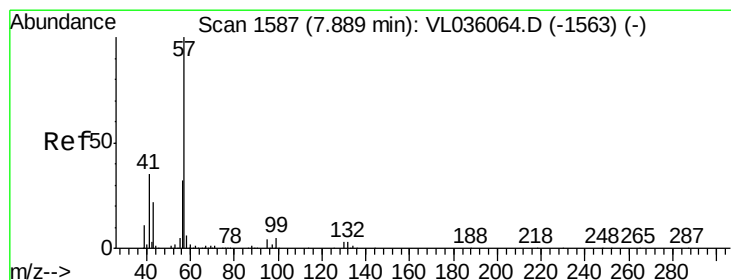
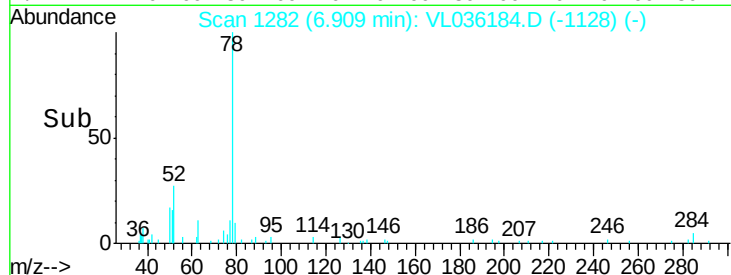
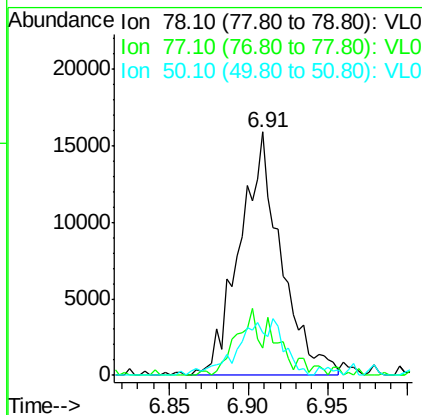
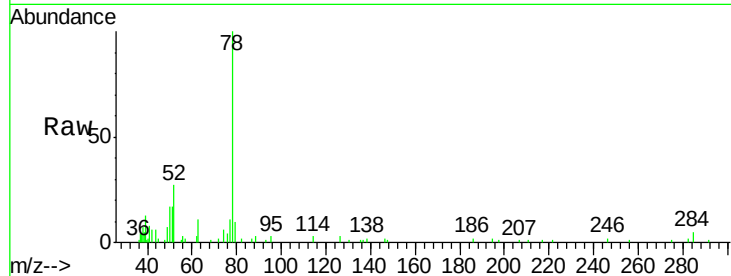
Concen: 0.130 ppbv m
 RT: 6.91 min Scan# 1282
 Delta R.T. -0.00 min
 Lab File: VL036184.D
 Acq: 17 Dec 2020 2:27

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

Tgt Ion	Ratio	Lower	Upper
78	100		
77	11.4	19.4	29.2#
50	17.4	17.8	26.8#

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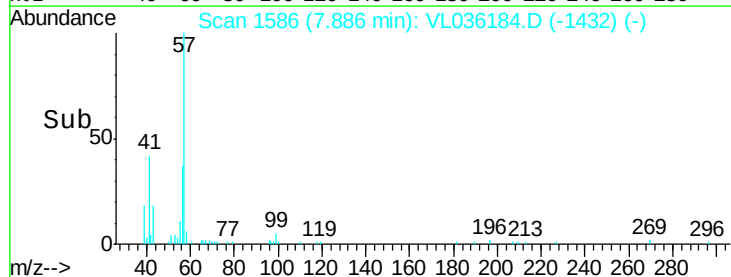
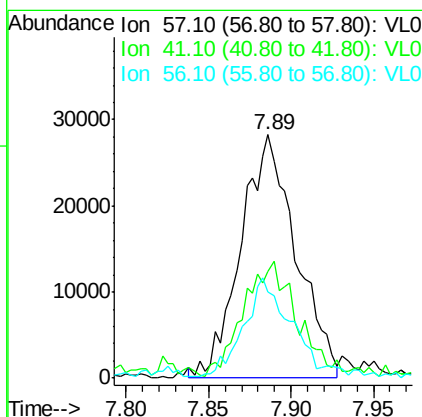
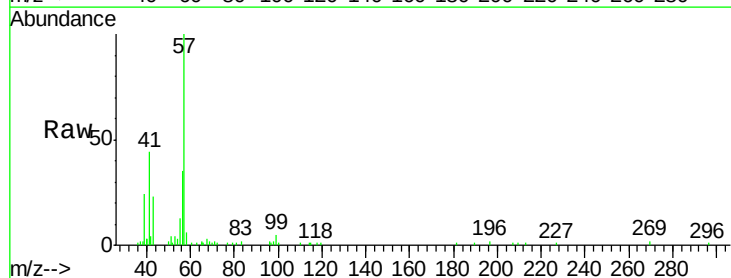


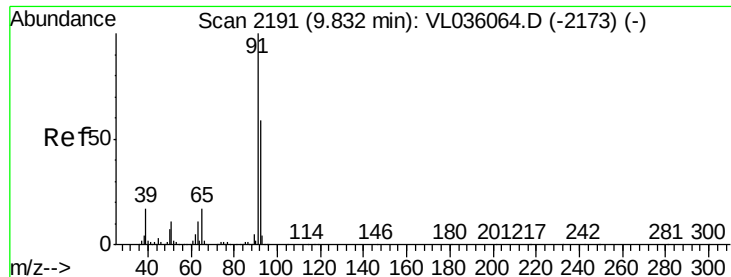
#44

2,2,4-Trimethylpentane

Concen: 0.164 ppbv m
 RT: 7.89 min Scan# 1586
 Delta R.T. -0.00 min
 Lab File: VL036184.D
 Acq: 17 Dec 2020 2:27

Tgt Ion	Ratio	Lower	Upper
57	100		
41	51.8	28.9	43.3#
56	38.3	25.3	37.9#





#53

Toluene

Concen: 0.231 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. -0.01 min

Lab File: VL036184.D

Acq: 17 Dec 2020 2:27

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

Tgt Ion: 91 Resp: 57383

Ion Ratio Lower Upper

91 100

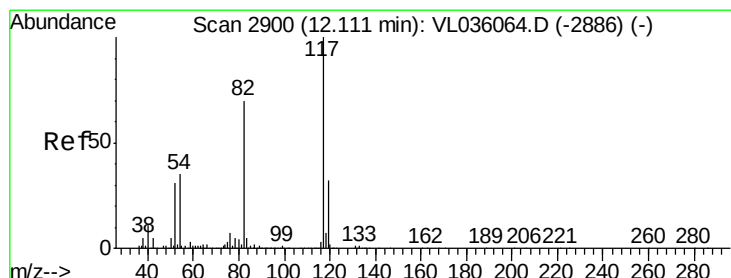
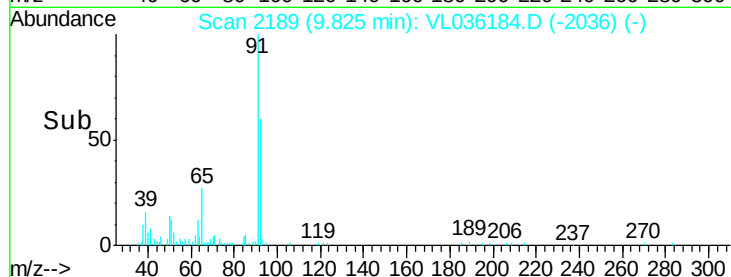
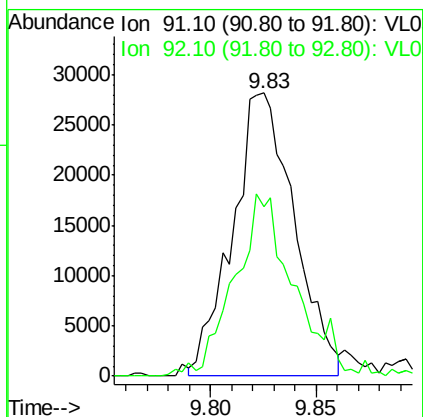
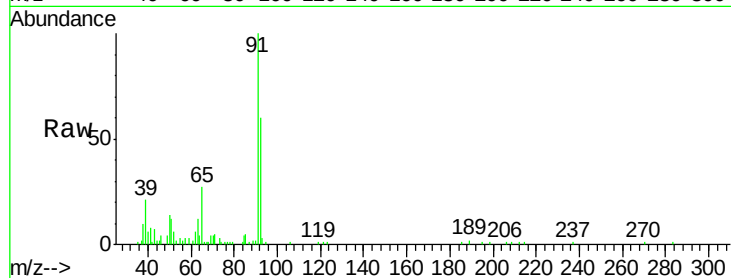
92 63.4 48.2 72.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2898

Delta R.T. -0.01 min

Lab File: VL036184.D

Acq: 17 Dec 2020 2:27

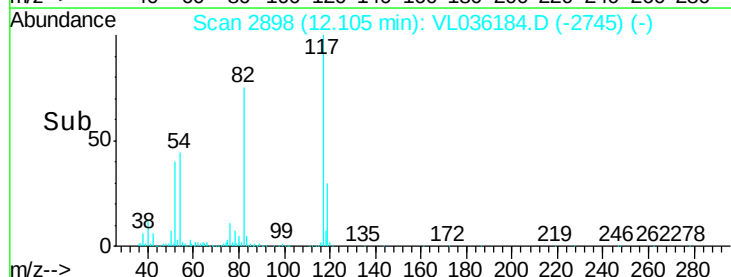
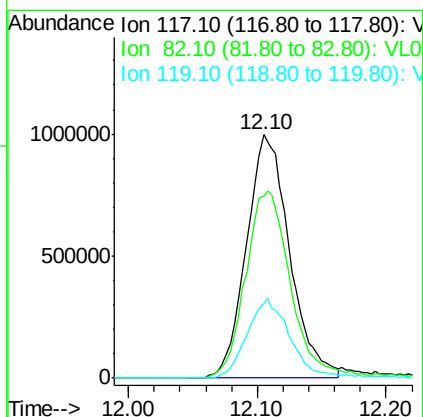
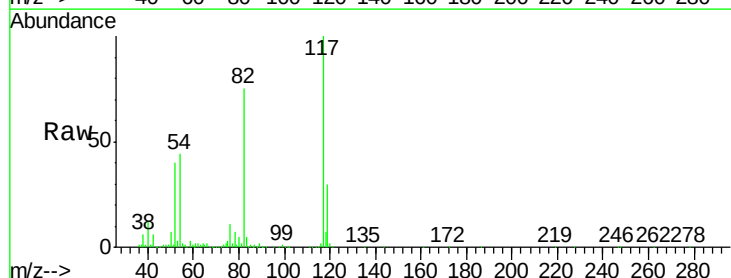
Tgt Ion: 117 Resp: 2321185

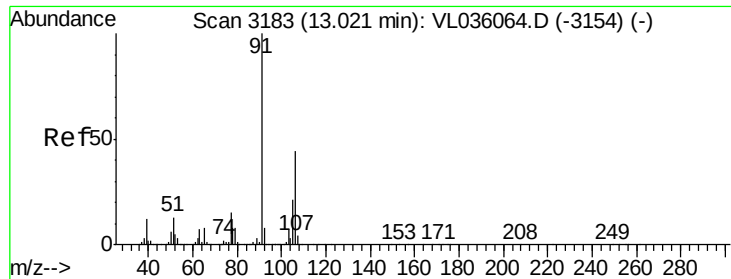
Ion Ratio Lower Upper

117 100

82 82.1 0.0 0.0#

119 33.4 0.0 0.0#





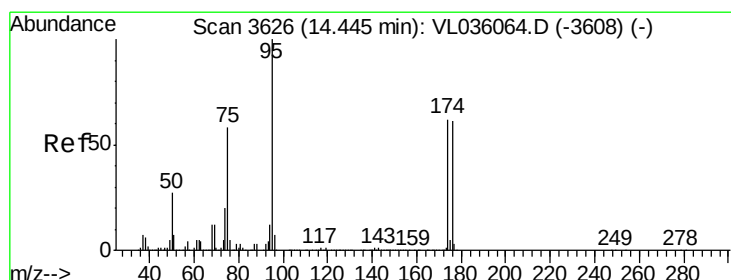
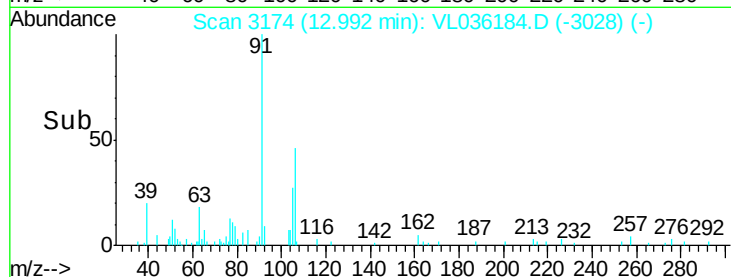
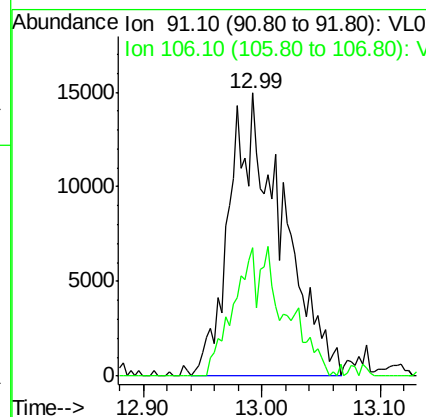
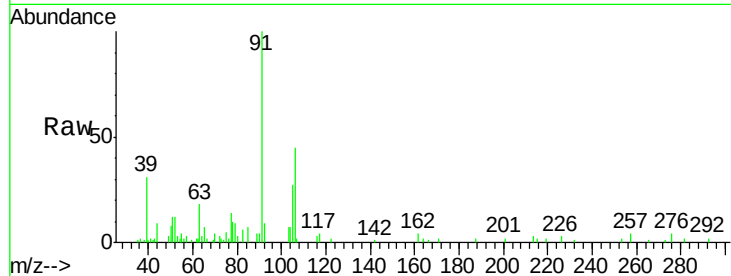
#59
m/p-Xylene
Concen: 0.171 ppbv m
RT: 12.99 min Scan# 3174
Delta R.T. -0.03 min
Lab File: VL036184.D
Acq: 17 Dec 2020 2:27

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

Tgt Ion: 91 Resp: 45745
Ion Ratio Lower Upper
91 100
106 0.0 33.6 50.4#

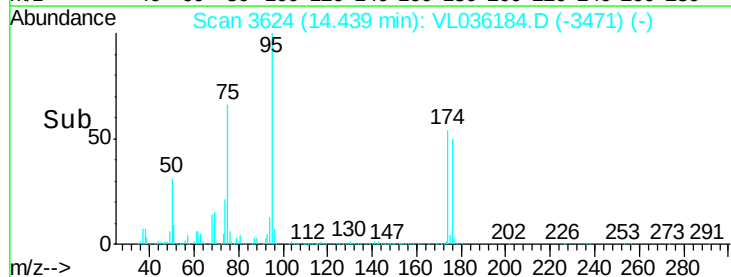
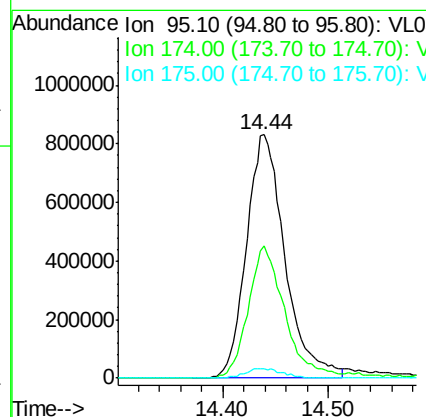
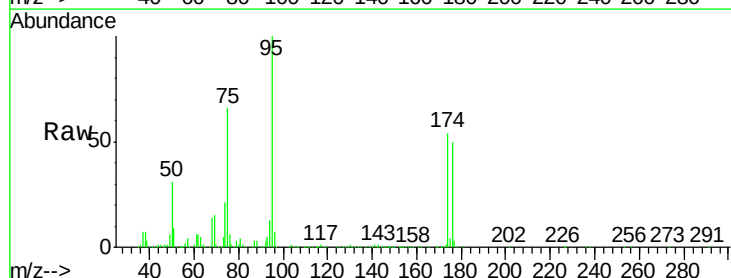
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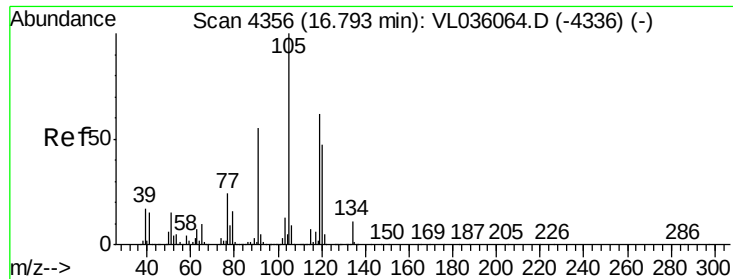
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#68
1-Bromo-4-Fluorobenzene
Concen: 11.465 ppbv
RT: 14.44 min Scan# 3624
Delta R.T. -0.01 min
Lab File: VL036184.D
Acq: 17 Dec 2020 2:27

Tgt Ion: 95 Resp: 2113080
Ion Ratio Lower Upper
95 100
174 54.6 50.7 76.1
175 3.8 4.0 6.0#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.175 ppbv m
 RT: 16.79 min Scan# 4356
 Delta R.T. -0.00 min
 Lab File: VL036184.D
 Acq: 17 Dec 2020 2:27

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

Tgt Ion	Ratio	Resp Lower	Resp Upper
105	100		
120	35.1	37.4	56.0#
91	16.1	45.6	68.4#
77	12.6	19.4	29.2#

Manual Integrations
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