

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091720\
 Data File : VL035674.D
 Acq On : 18 Sep 2020 2:26
 Operator : SY/AP
 Sample : L3983-04 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-12

Manual Integrations
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Quant Time: Sep 20 20:49:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 2020
 QLast Update : Mon Sep 14 15:19:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1117816	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4434351	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.11	117	4386385	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	3327423	10.68	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Chloromethane	3.14	50	14914	0.225	ppbv	97
9) Propene	3.01	41	977827	20.516	ppbv	95
10) Heptane	8.14	43	78878	0.616	ppbv	100
13) Ethanol	3.61	45	101644	8.601	ppbv	97
15) Acetone	3.84	43	4727275	38.344	ppbv	91
17) tert-Butyl alcohol	4.30	59	224896	1.499	ppbv	98
19) Isopropyl Alcohol	3.97	45	71838	0.977	ppbv #	93
20) Methylene Chloride	4.35	84	96327	1.049	ppbv	94
26) Hexane	5.69	57	137684	1.116	ppbv #	51
27) Carbon Disulfide	4.56	76	109919	0.621	ppbv	98
29) Chloroform	5.76	83	26387	0.105	ppbv	86
30) Cyclohexane	7.14	84	30357	0.230	ppbv #	84
31) cis-1,2-Dichloroethene	5.56	61	48534	0.383	ppbv	93
34) 2-Butanone	5.25	43	670065	5.092	ppbv	98
36) Benzene	6.91	78	187145	0.652	ppbv	96
38) Trichloroethene	7.85	130	355836	2.134	ppbv	95
50) 4-Methyl-2-Pentanone	8.75	43	3478274	18.253	ppbv	99
51) 2-Hexanone	10.16	43	242123	1.549	ppbv #	93
52) Tetrachloroethene	11.25	164	10320355m	61.545	ppbv	
53) Toluene	9.83	91	1166540	3.232	ppbv	97
58) Ethyl Benzene	12.74	91	455250	1.006	ppbv	91
59) m/p-Xylene	12.99	91	1589459	4.205	ppbv	95
60) o-Xylene	13.72	91	537366	1.412	ppbv	95
64) n-propylbenzene	15.59	120	67389	0.361	ppbv #	58
72) 4-Ethyltoluene	15.87	105	392191	0.810	ppbv	95
73) 1,3,5-Trimethylbenzene	16.02	105	180642	0.404	ppbv	87
74) 1,2,4-Trimethylbenzene	16.79	105	857356	1.744	ppbv #	71

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

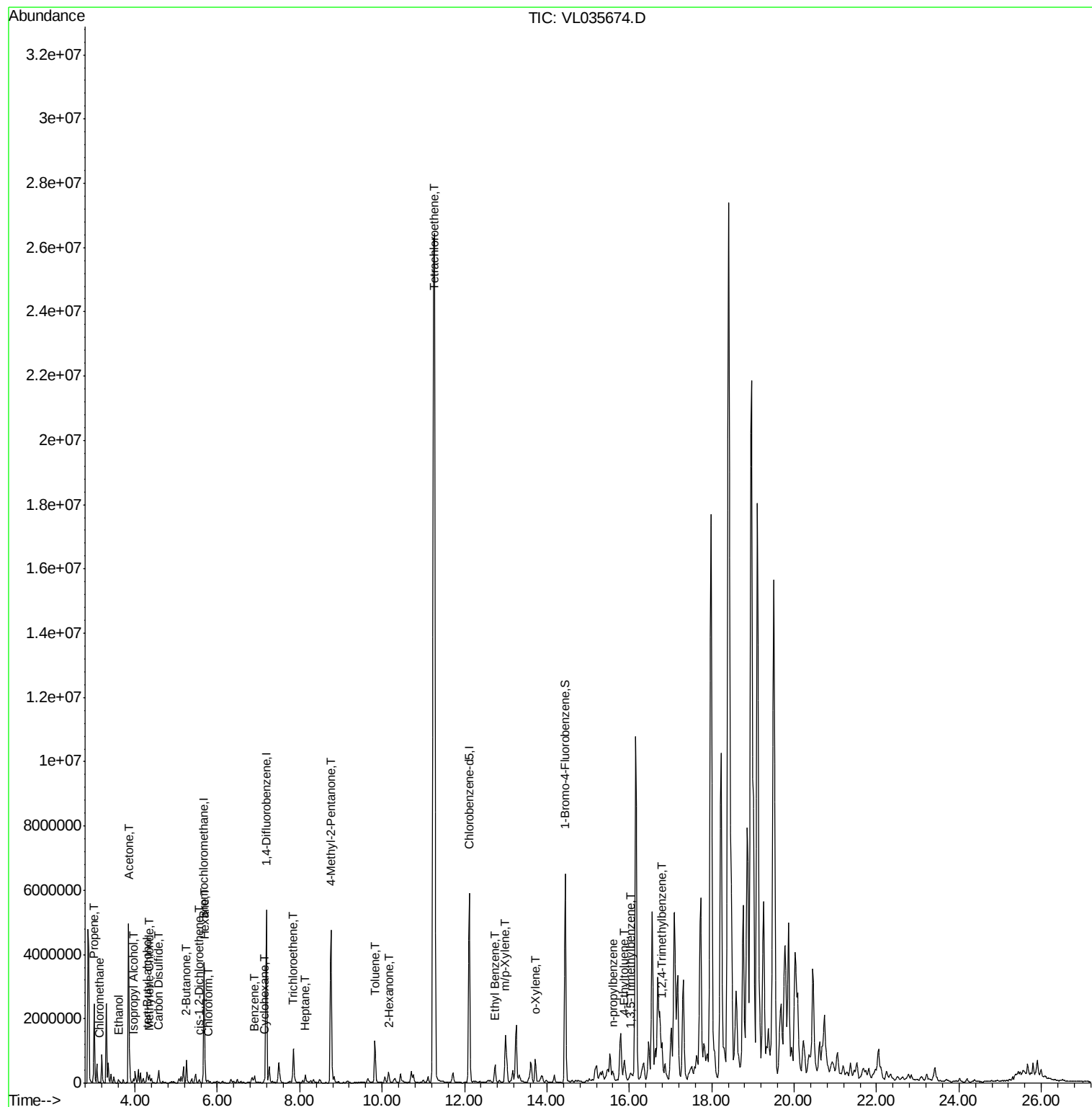
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091720\
Data File : VL035674.D
Acq On : 18 Sep 2020 2:26
Operator : SY/AP
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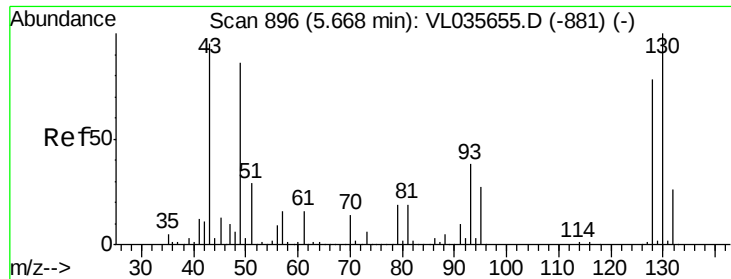
Instrument :
MSVOA_L
ClientSampleId :
SV-12

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Quant Time: Sep 20 20:49:42 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep
QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration





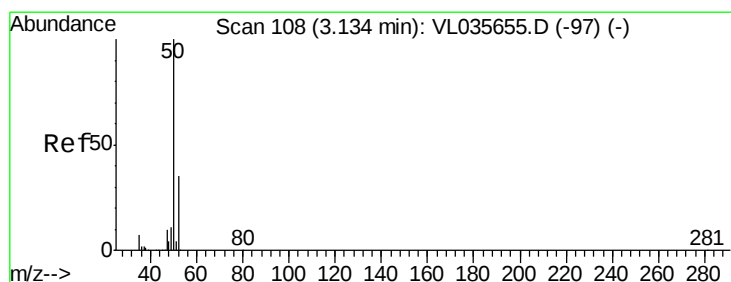
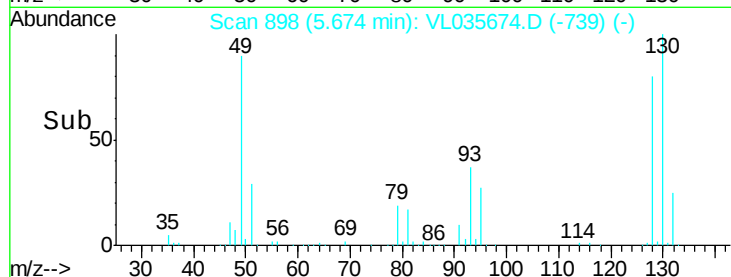
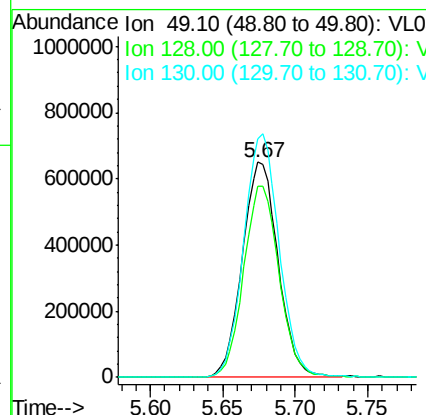
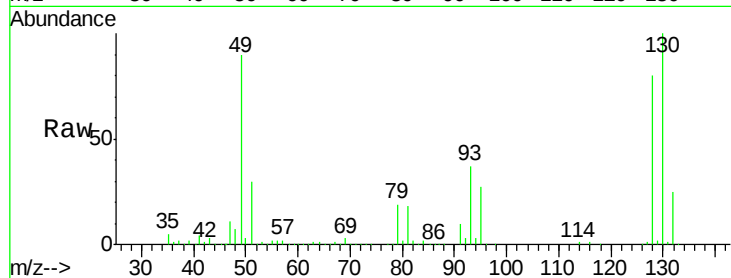
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Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.01 min
Lab File: VL035674.D
Acq: 18 Sep 2020 2:26

Instrument :
MSVOA_L
ClientSampled :
SV-12

Tot Ion: 49 Resp: 1117816
Ion Ratio Lower Upper
49 100
128 88.5 50.0 150.1
130 112.7 64.4 193.2

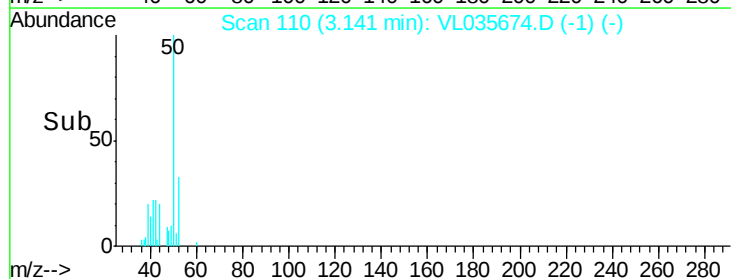
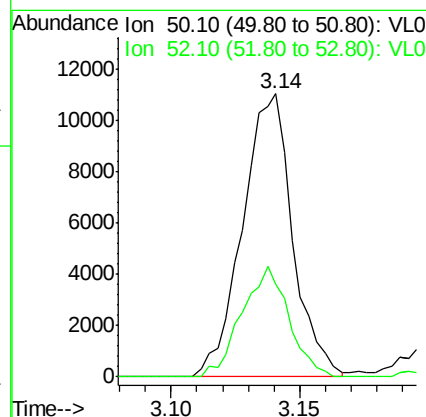
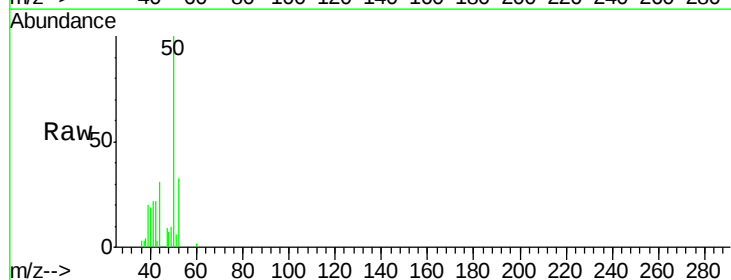
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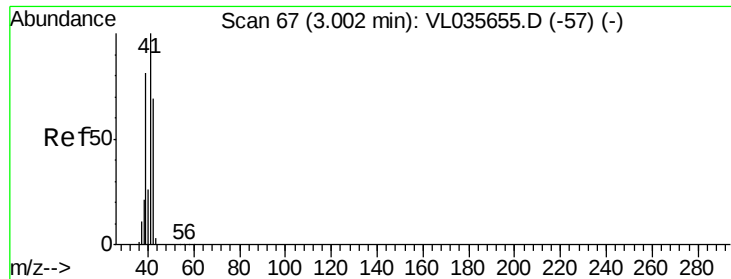
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#4
Chloromethane
Concen: 0.225 ppbv
RT: 3.14 min Scan# 110
Delta R.T. 0.01 min
Lab File: VL035674.D
Acq: 18 Sep 2020 2:26

Tgt Ion: 50 Resp: 14914
Ion Ratio Lower Upper
50 100
52 32.7 27.7 41.5





#9

Propene

Concen: 20.516 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.01 min

Lab File: VL035674.D

Acq: 18 Sep 2020 2:26

Instrument :

MSVOA_L

ClientSampleId :

SV-12

Tot Ion: 41 Resp: 977827

Ion Ratio Lower Upper

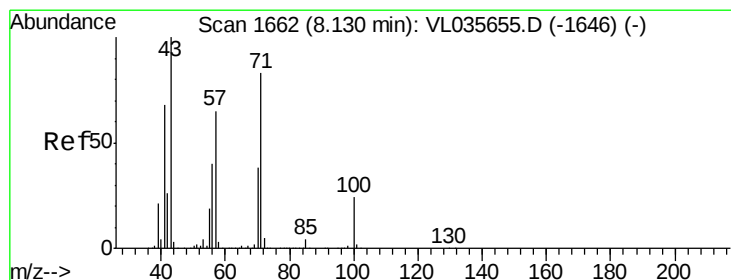
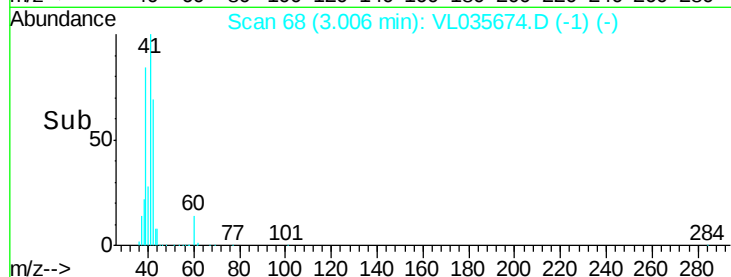
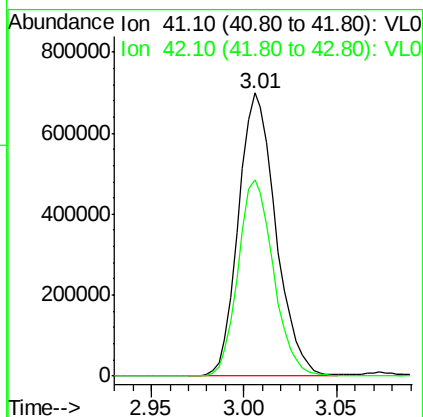
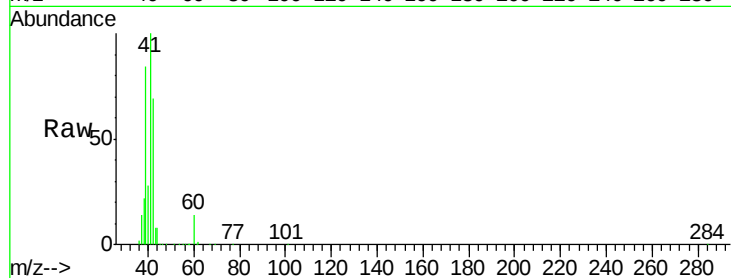
41 100

42 66.0 56.3 84.5

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#10

Heptane

Concen: 0.616 ppbv

RT: 8.14 min Scan# 1664

Delta R.T. 0.01 min

Lab File: VL035674.D

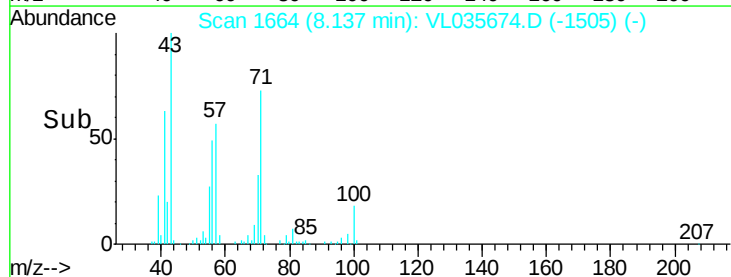
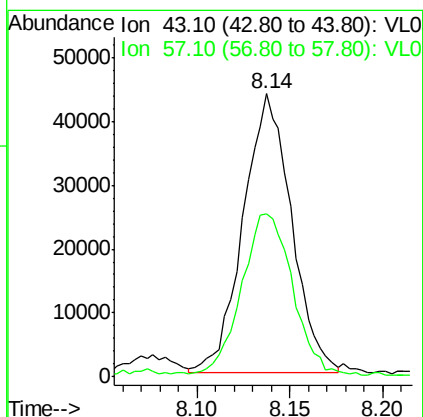
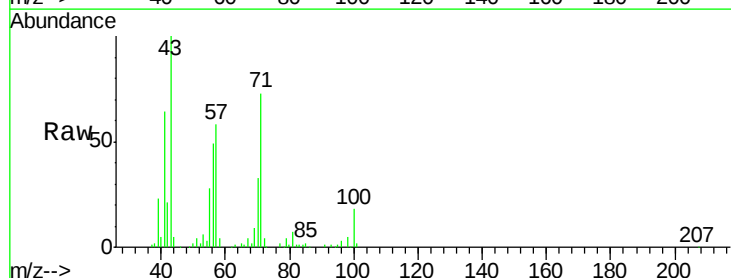
Acq: 18 Sep 2020 2:26

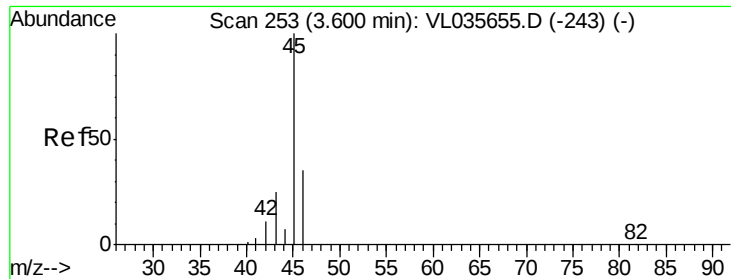
Tgt Ion: 43 Resp: 78878

Ion Ratio Lower Upper

43 100

57 64.3 51.4 77.0





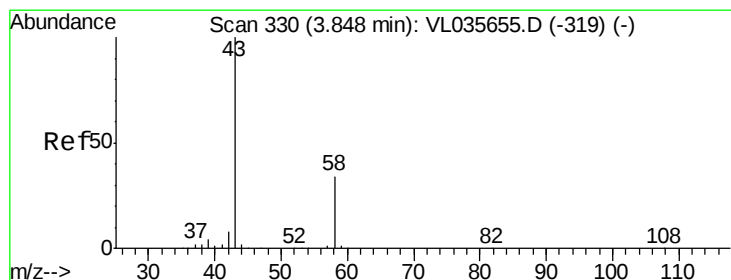
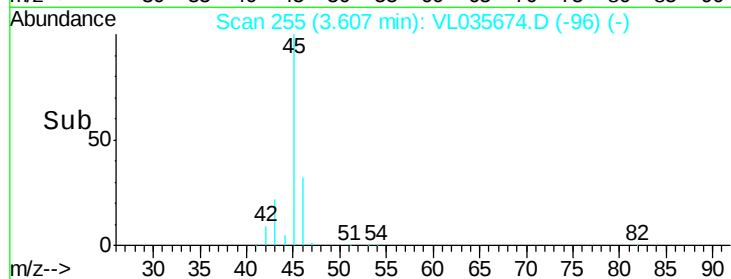
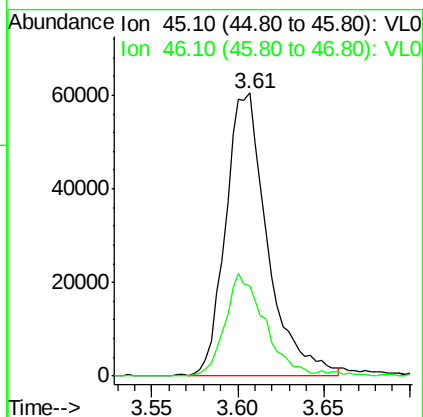
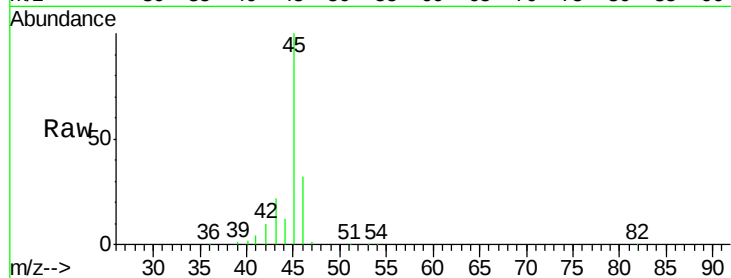
#13
Ethanol
Concen: 8.601 ppbv
RT: 3.61 min Scan# 255
Delta R.T. 0.01 min
Lab File: VL035674.D
Acq: 18 Sep 2020 2:26

Instrument :
MSVOA_L
ClientSampleId :
SV-12

Tot Ion: 45 Resp: 101644
Ion Ratio Lower Upper
45 100
46 35.9 15.2 60.6

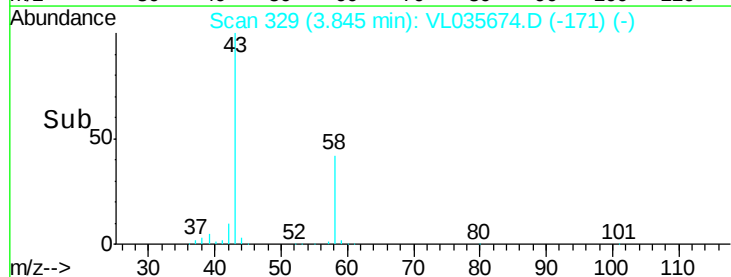
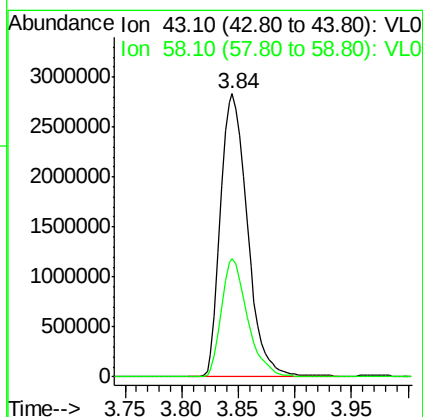
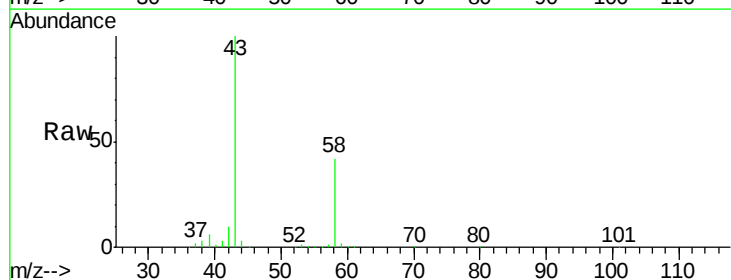
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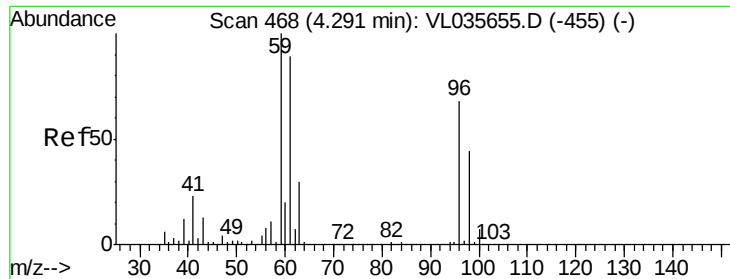
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#15
Acetone
Concen: 38.344 ppbv
RT: 3.84 min Scan# 329
Delta R.T. 0.01 min
Lab File: VL035674.D
Acq: 18 Sep 2020 2:26

Tgt Ion: 43 Resp: 4727275
Ion Ratio Lower Upper
43 100
58 40.6 28.4 42.6





#17

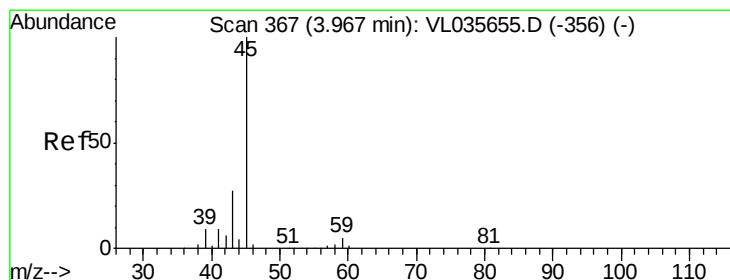
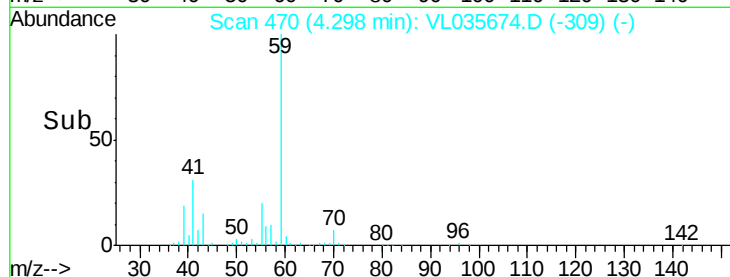
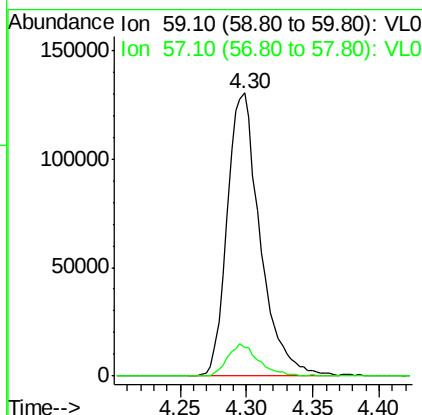
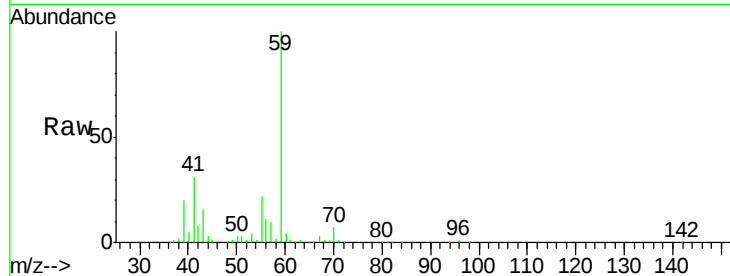
tert-Butyl alcohol
Concen: 1.499 ppbv
RT: 4.30 min Scan# 470
Delta R.T. 0.02 min
Lab File: VL035674.D
Acq: 18 Sep 2020 2:26

Instrument :
MSVOA_L
ClientSampleId :
SV-12

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.4	12.6

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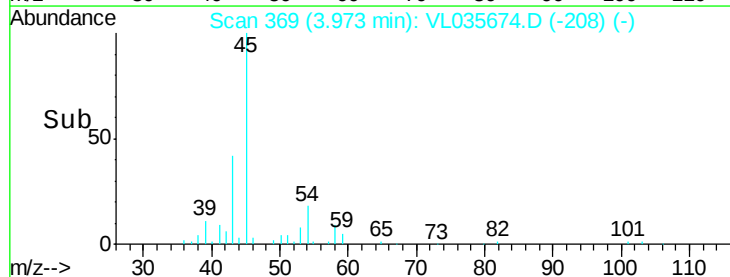
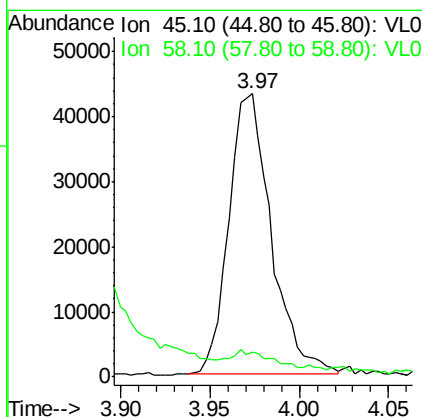
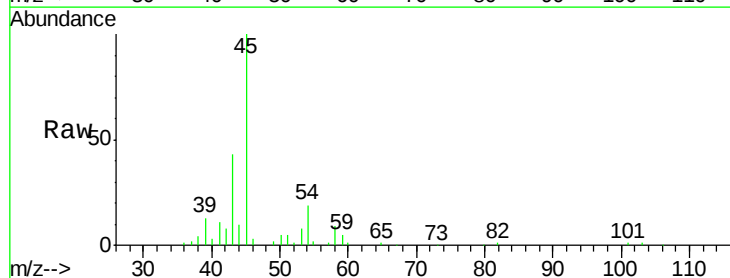
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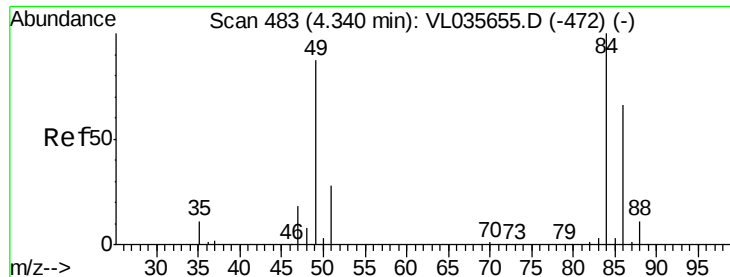


#19

Isopropyl Alcohol
Concen: 0.977 ppbv
RT: 3.97 min Scan# 369
Delta R.T. 0.02 min
Lab File: VL035674.D
Acq: 18 Sep 2020 2:26

Tgt Ion	Ratio	Lower	Upper
45	100		
58	0.0	2.0	3.0#





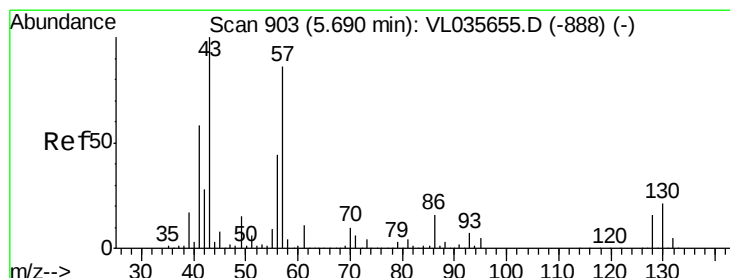
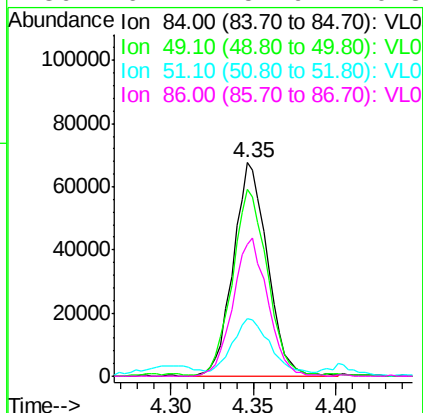
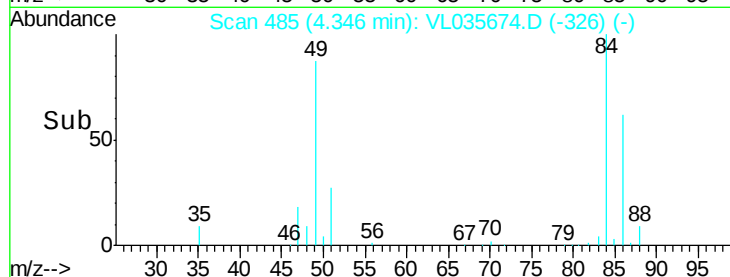
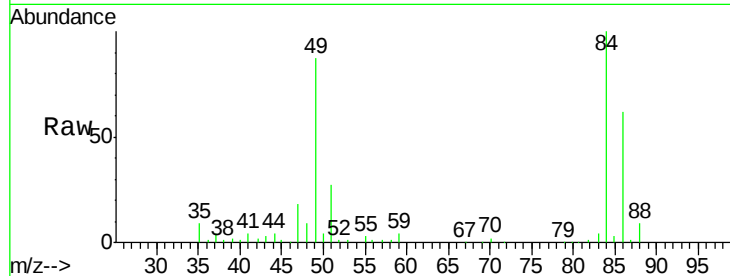
#20
Methvlene Chloride
Concen: 1.049 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.01 min
Lab File: VL035674.D
Acq: 18 Sep 2020 2:26

Instrument :
MSVOA_L
ClientSampled :
SV-12

Tot Ion	84	Resp	96327
Ion	Ratio	Lower	Upper
84	100		
49	87.2	65.4	98.0
51	22.8	21.5	32.3
86	62.1	52.9	79.3

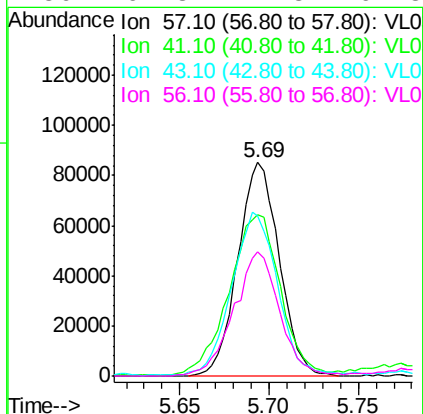
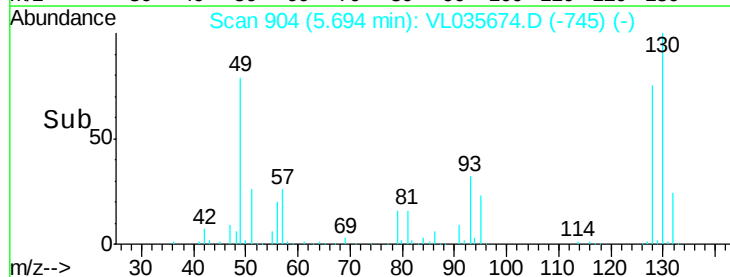
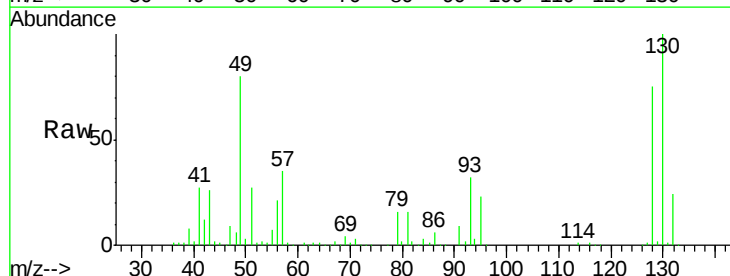
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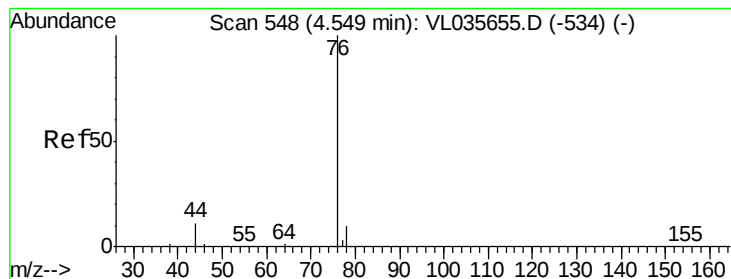
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#26
Hexane
Concen: 1.116 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.01 min
Lab File: VL035674.D
Acq: 18 Sep 2020 2:26

Tgt Ion	57	Resp	137684
Ion	Ratio	Lower	Upper
57	100		
41	93.3	55.9	83.9#
43	84.5	141.8	212.8#
56	64.3	41.8	62.8#





#27

Carbon Disulfide

Concen: 0.621 ppbv

RT: 4.56 min Scan# 550

Delta R.T. 0.01 min

Lab File: VL035674.D

Acq: 18 Sep 2020 2:26

Instrument :

MSVOA_L

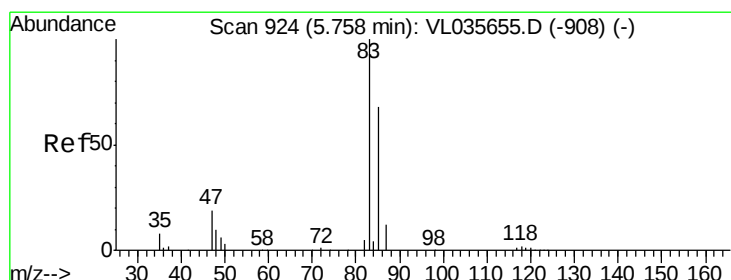
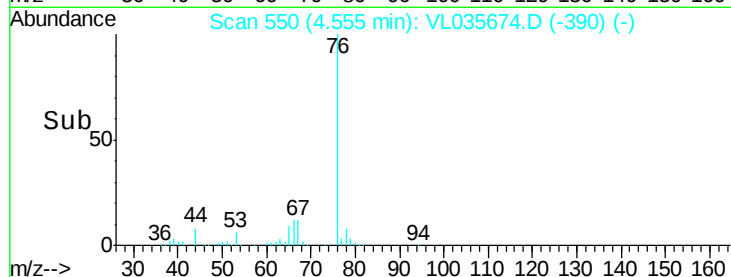
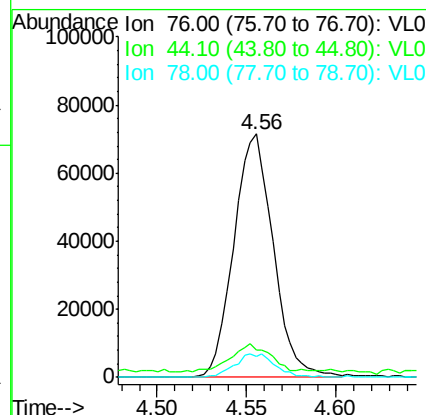
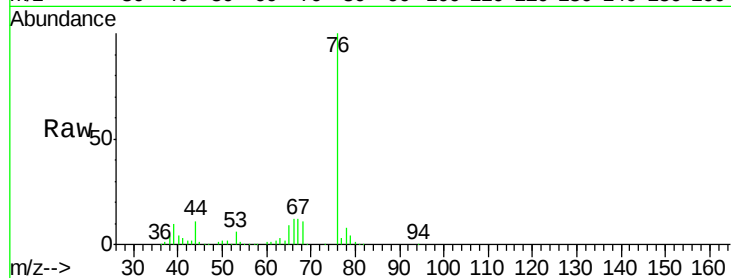
ClientSampleId :

SV-12

Tot Ion:	76	Resp:	109919
Ion Ratio	Lower	Upper	
76	100		
44	12.6	9.3	13.9
78	10.2	7.8	11.6

Manual Integrations
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#29

Chloroform

Concen: 0.105 ppbv

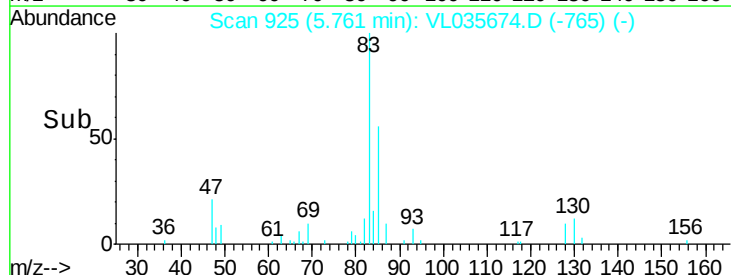
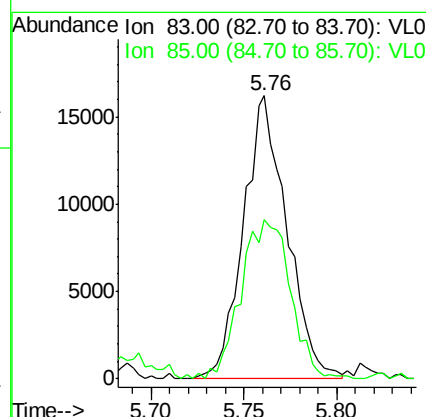
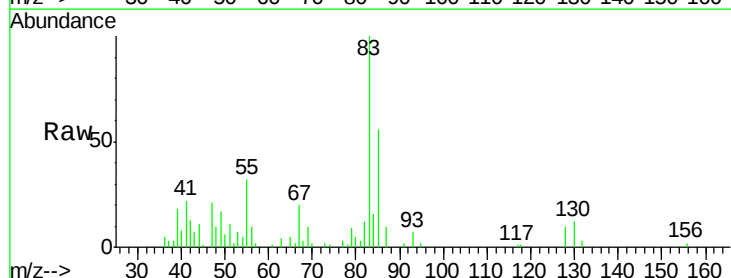
RT: 5.76 min Scan# 925

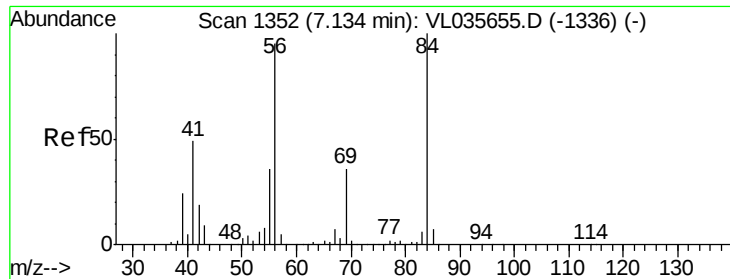
Delta R.T. 0.01 min

Lab File: VL035674.D

Acq: 18 Sep 2020 2:26

Tgt Ion:	83	Resp:	26387
Ion Ratio	Lower	Upper	
83	100		
85	56.2	53.9	80.9





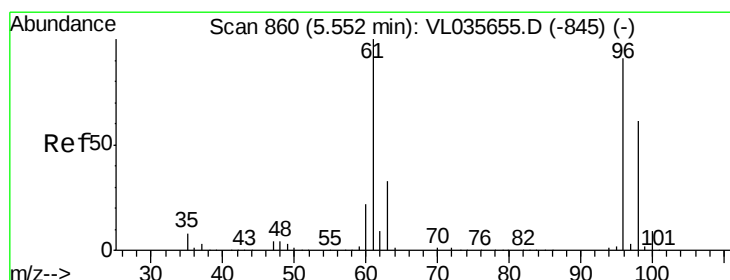
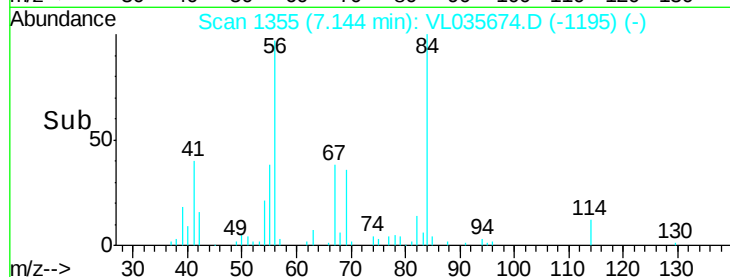
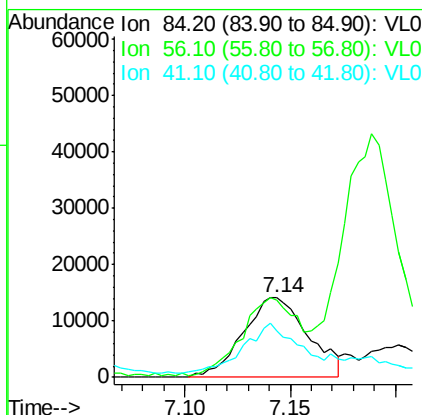
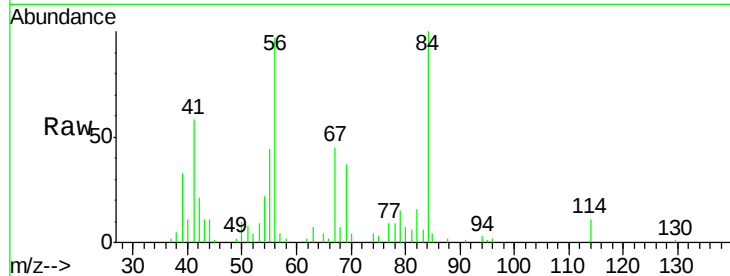
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Cvclohexane
Concen: 0.230 ppbv
RT: 7.14 min Scan# 1355
Delta R.T. 0.01 min
Lab File: VL035674.D
Acq: 18 Sep 2020 2:26

Instrument :
MSVOA_L
ClientSampled :
SV-12

Tot Ion	Ratio	Lower	Upper
84	100		
56	93.9	80.1	120.1
41	72.2	38.1	57.1#

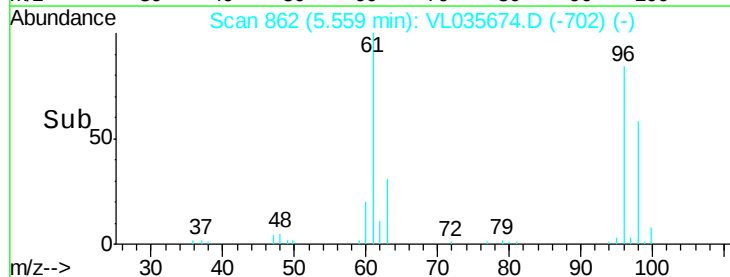
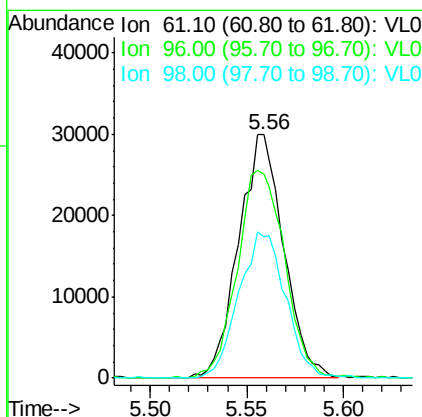
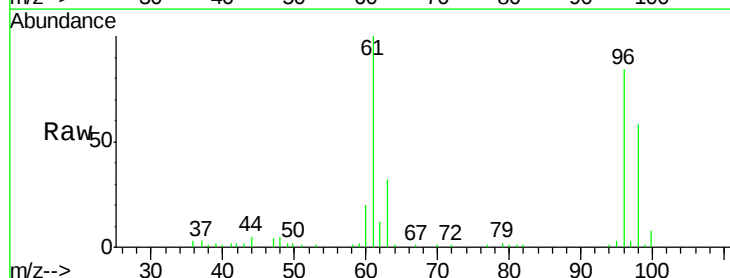
Manual Integrations
APPROVED

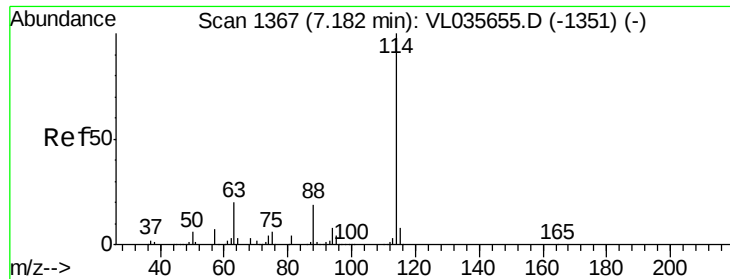
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#31
cis-1,2-Dichloroethene
Concen: 0.383 ppbv
RT: 5.56 min Scan# 862
Delta R.T. 0.01 min
Lab File: VL035674.D
Acq: 18 Sep 2020 2:26

Tgt Ion	Ratio	Lower	Upper
61	100		
96	84.0	74.4	111.6
98	58.0	49.2	73.8





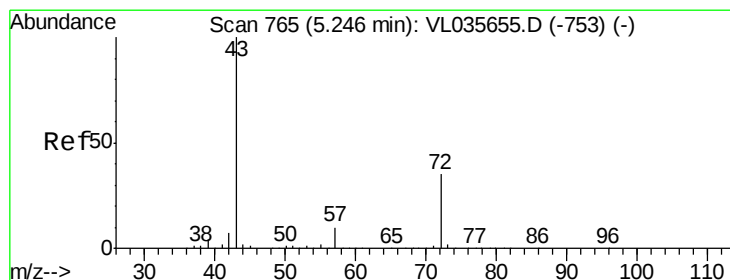
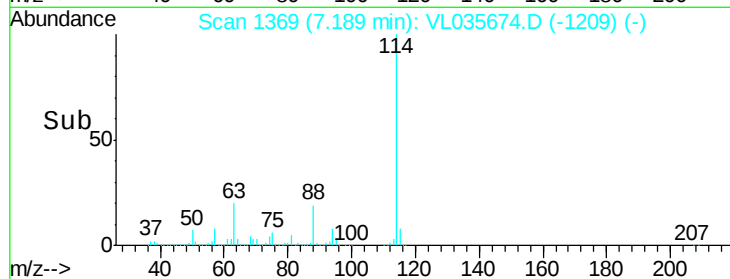
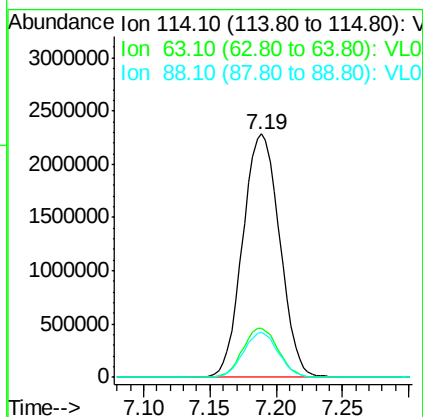
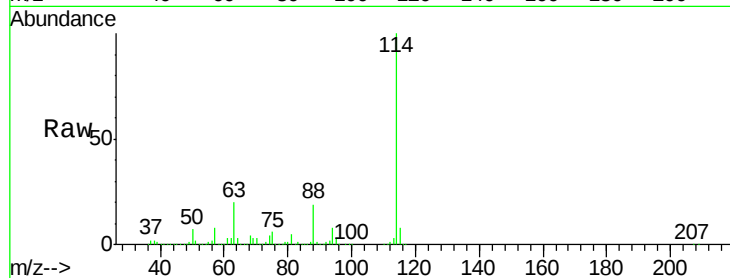
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1369
 Delta R.T. 0.01 min
 Lab File: VL035674.D
 Acq: 18 Sep 2020 2:26

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-12

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.5	14.7	22.1
88	17.4	13.4	20.2

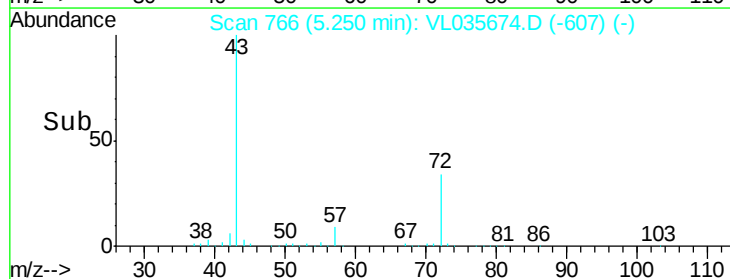
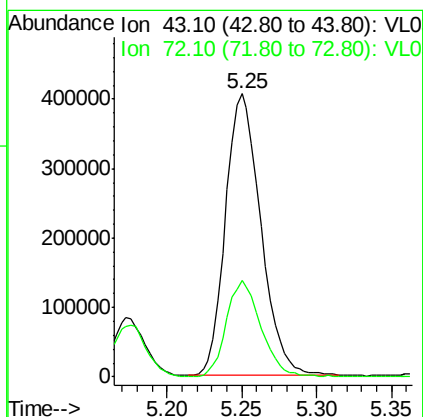
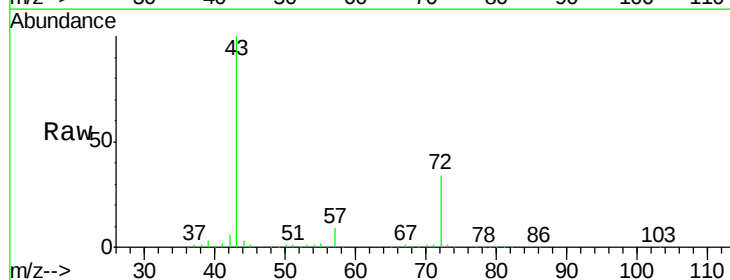
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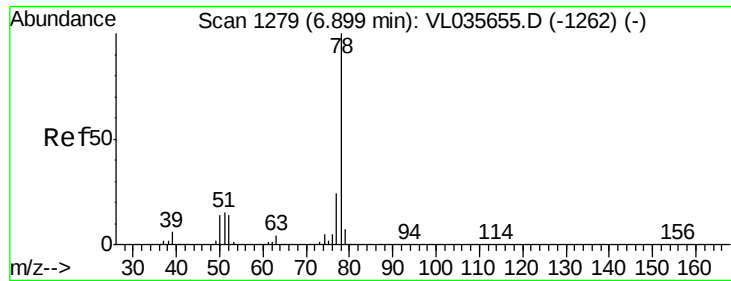
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#34
 2-Butanone
 Concen: 5.092 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. 0.01 min
 Lab File: VL035674.D
 Acq: 18 Sep 2020 2:26

Tgt Ion	Ratio	Lower	Upper
43	100		
72	33.6	27.7	41.5





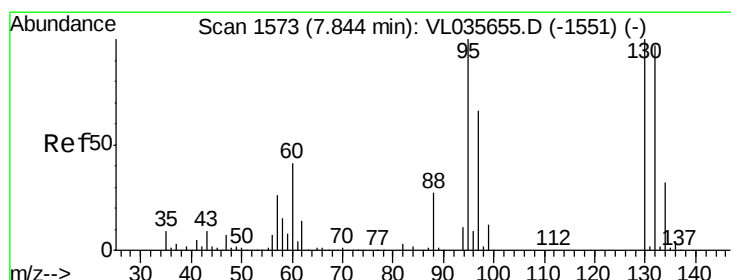
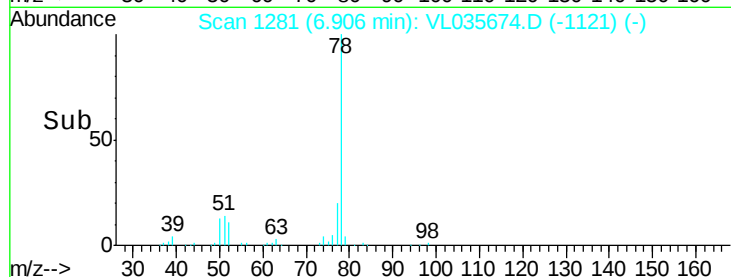
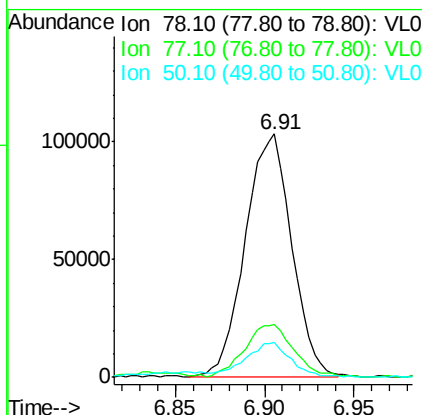
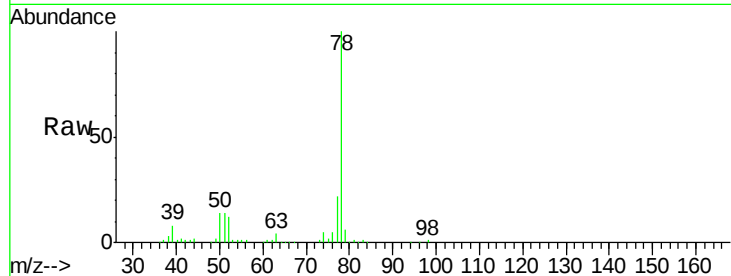
#36
Benzene
Concen: 0.652 ppbv
RT: 6.91 min Scan# 1281
Delta R.T. 0.01 min
Lab File: VL035674.D
Acq: 18 Sep 2020 2:26

Instrument :
MSVOA_L
ClientSampleId :
SV-12

Tot Ion	Ratio	Lower	Upper
78	100		
77	21.0	19.3	28.9
50	13.8	11.0	16.6

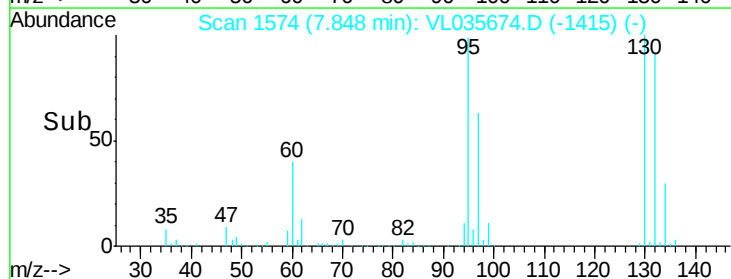
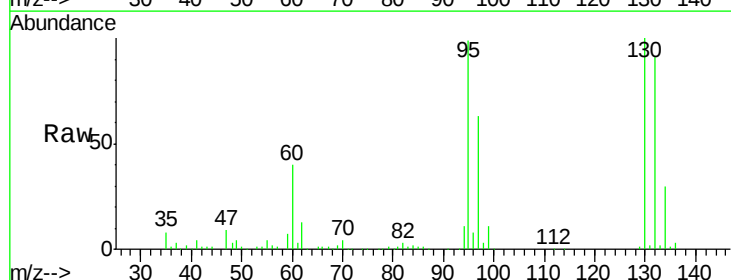
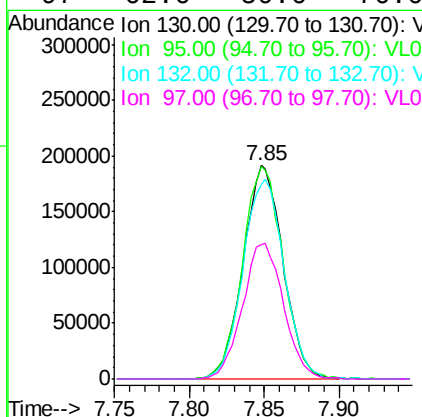
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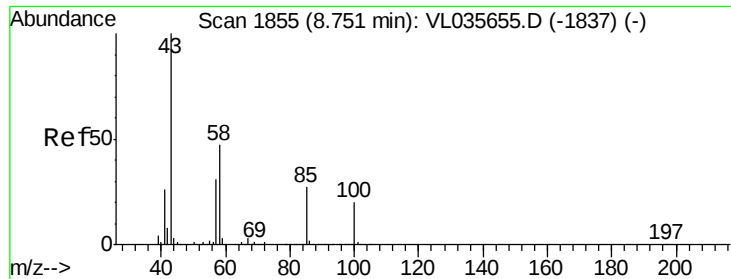
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#38
Trichloroethene
Concen: 2.134 ppbv
RT: 7.85 min Scan# 1574
Delta R.T. 0.01 min
Lab File: VL035674.D
Acq: 18 Sep 2020 2:26

Tgt Ion	Ratio	Lower	Upper
130	100		
95	99.2	74.6	112.0
132	91.2	77.6	116.4
97	62.6	50.6	76.0





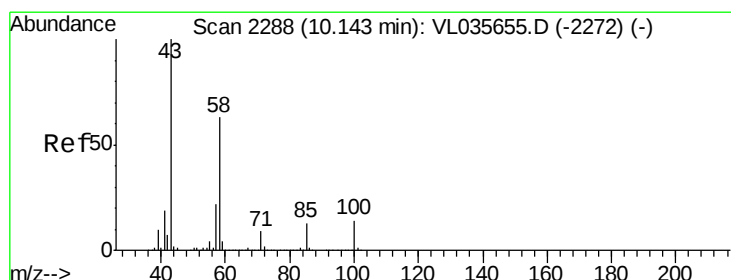
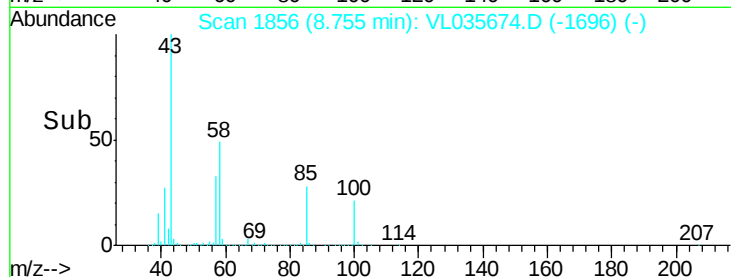
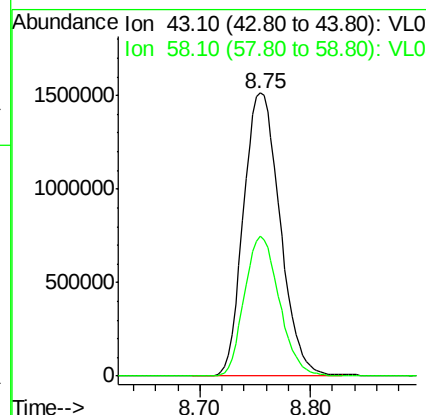
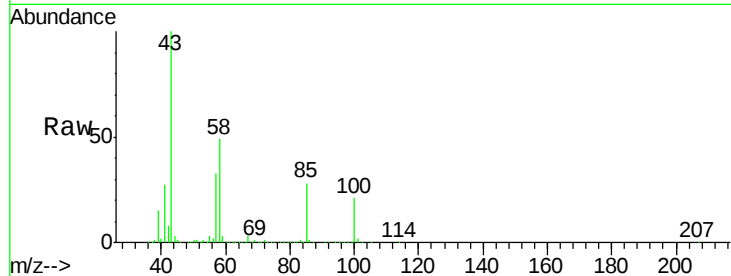
#50
4-Methyl-2-Pentanone
Concen: 18.253 ppbv
RT: 8.75 min Scan# 1856
Delta R.T. 0.01 min
Lab File: VL035674.D
Acq: 18 Sep 2020 2:26

Instrument :
MSVOA_L
ClientSampleId :
SV-12

Tot Ion: 43 Resp: 3478274
Ion Ratio Lower Upper
43 100
58 47.4 37.4 56.0

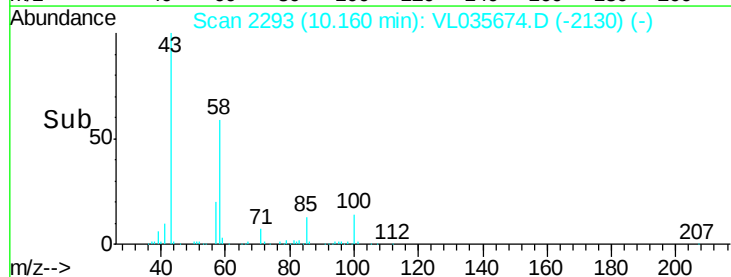
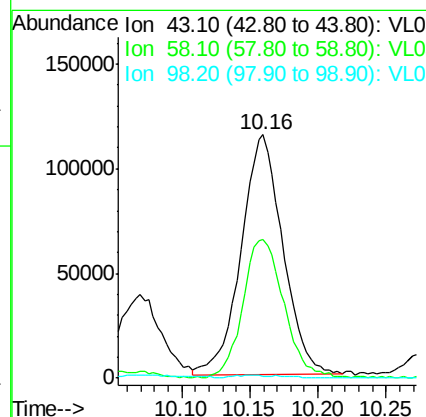
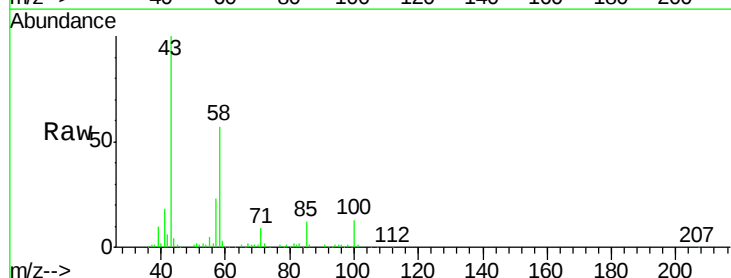
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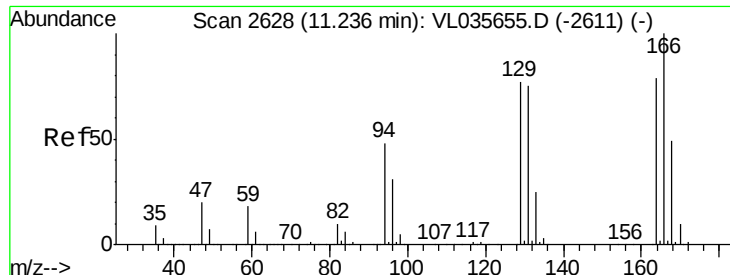
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#51
2-Hexanone
Concen: 1.549 ppbv
RT: 10.16 min Scan# 2293
Delta R.T. 0.02 min
Lab File: VL035674.D
Acq: 18 Sep 2020 2:26

Tgt Ion: 43 Resp: 242123
Ion Ratio Lower Upper
43 100
58 57.3 50.2 75.4
98 1.5 0.4 0.6#





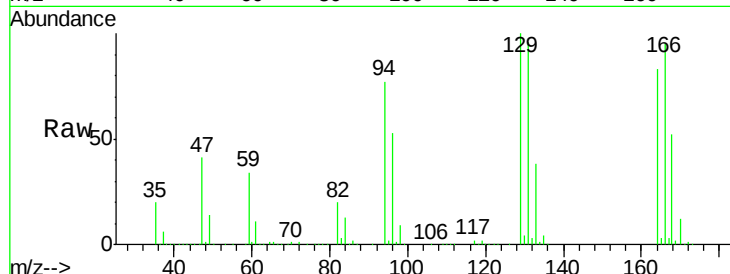
#52
Tetrachloroethene
Concen: 61.545 ppbv m
RT: 11.25 min Scan# 2631
Delta R.T. 0.02 min
Lab File: VL035674.D
Acq: 18 Sep 2020 2:26

Instrument :
MSVOA_L
ClientSampleId :
SV-12

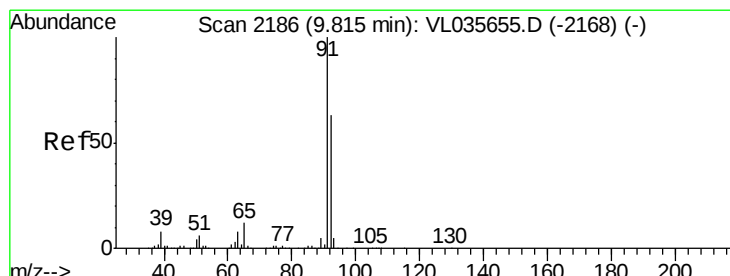
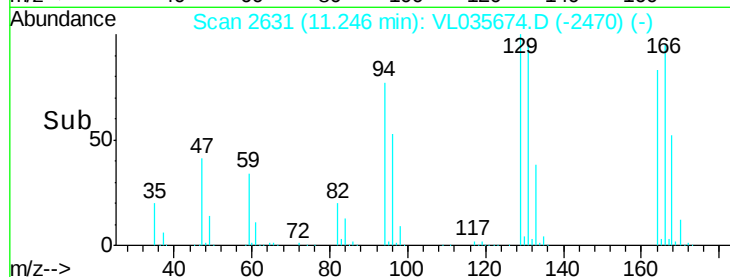
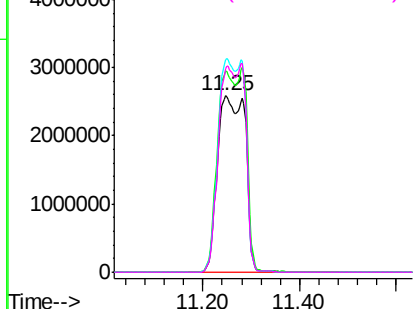
Tot Ion:164 Resp:10320355
Ion Ratio Lower Upper
164 100
166 114.1 100.9 151.3
129 120.6 75.3 112.9#
131 115.9 73.0 109.4#

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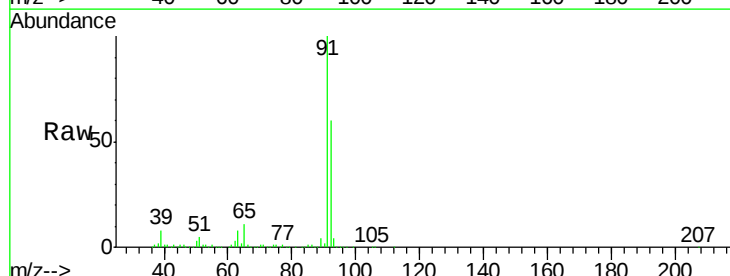


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V

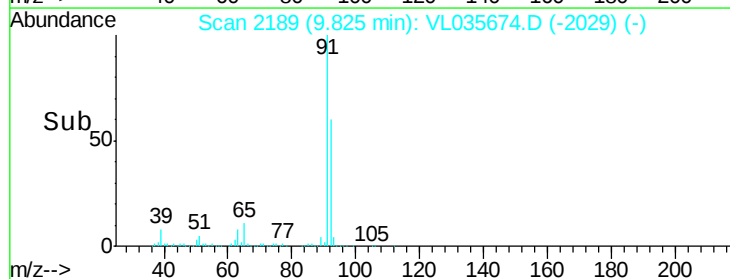
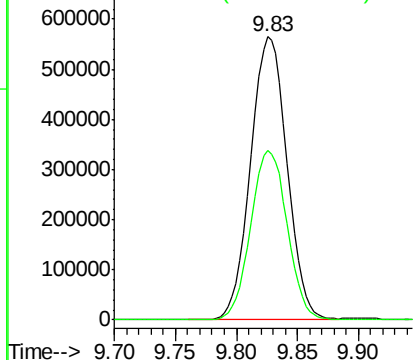


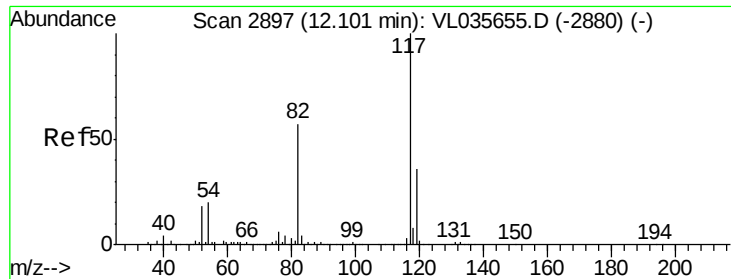
#53
Toluene
Concen: 3.232 ppbv
RT: 9.83 min Scan# 2189
Delta R.T. 0.01 min
Lab File: VL035674.D
Acq: 18 Sep 2020 2:26

Tgt Ion: 91 Resp: 1166540
Ion Ratio Lower Upper
91 100
92 60.1 49.8 74.8



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0





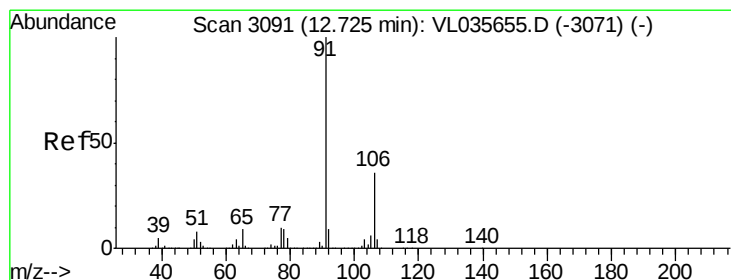
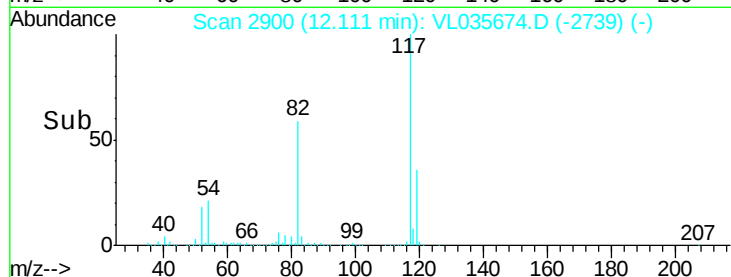
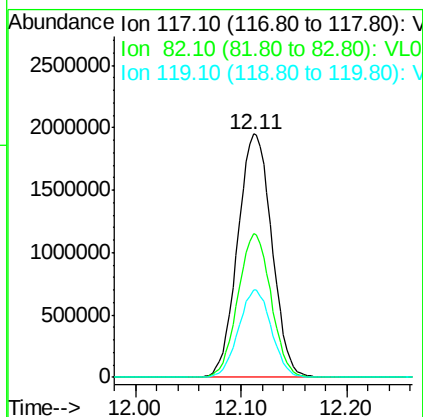
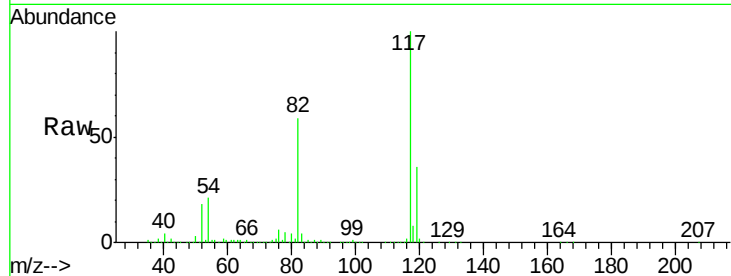
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. 0.02 min
Lab File: VL035674.D
Acq: 18 Sep 2020 2:26

Instrument :
MSVOA_L
ClientSampled :
SV-12

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.3	41.6	62.4
119	34.6	29.3	43.9

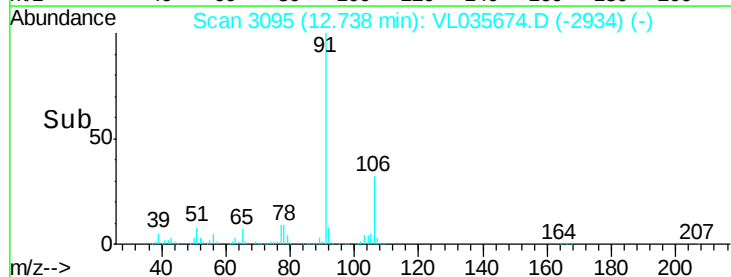
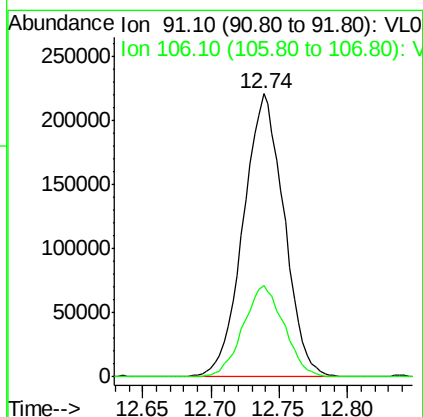
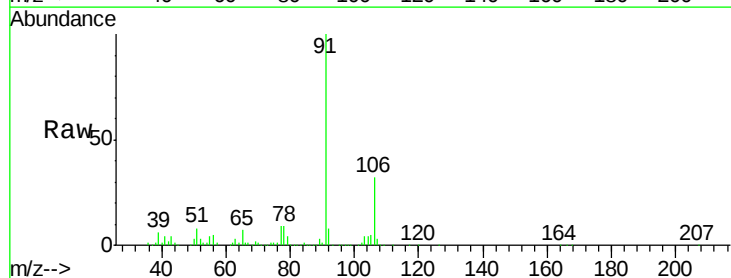
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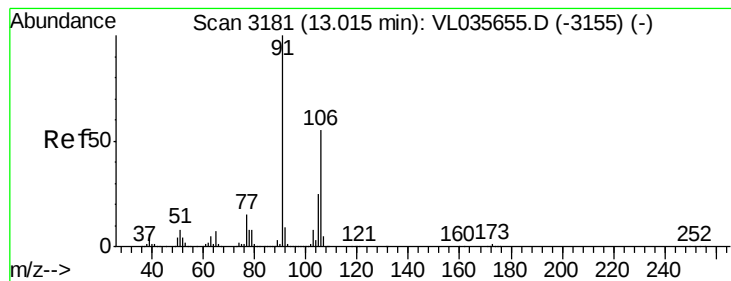
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#58
Ethyl Benzene
Concen: 1.006 ppbv
RT: 12.74 min Scan# 3095
Delta R.T. 0.02 min
Lab File: VL035674.D
Acq: 18 Sep 2020 2:26

Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.4	30.3	45.5





#59

m/p-Xylene

Concen: 4.205 ppbv

RT: 12.99 min Scan# 3174

Delta R.T. -0.02 min

Lab File: VL035674.D

Acq: 18 Sep 2020 2:26

Instrument :

MSVOA_L

ClientSampled :

SV-12

Tot Ion: 91 Resp: 1589459

Ion Ratio Lower Upper

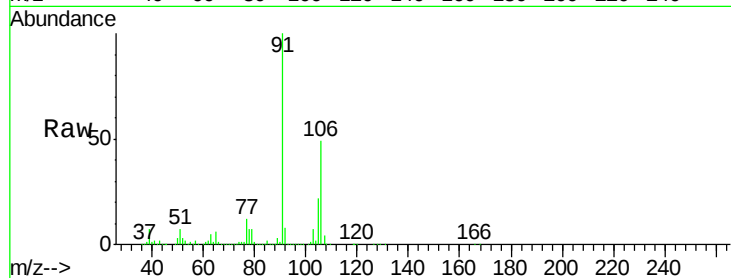
91 100

106 50.8 43.4 65.2

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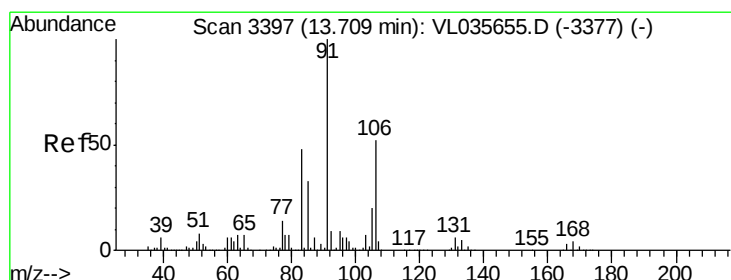
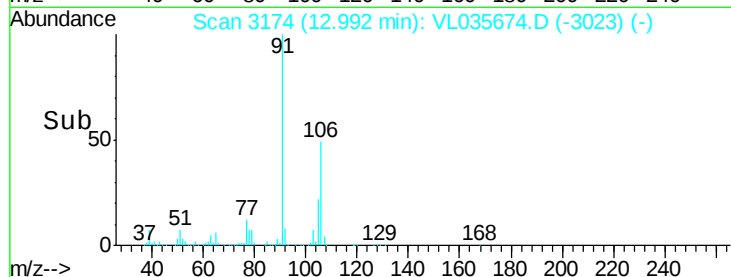
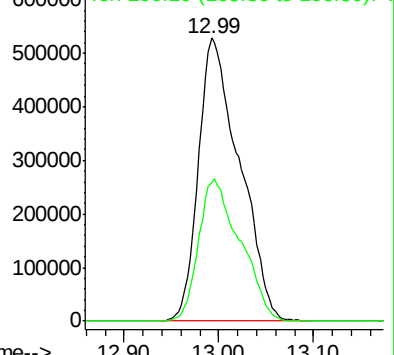
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 1.412 ppbv

RT: 13.72 min Scan# 3400

Delta R.T. 0.01 min

Lab File: VL035674.D

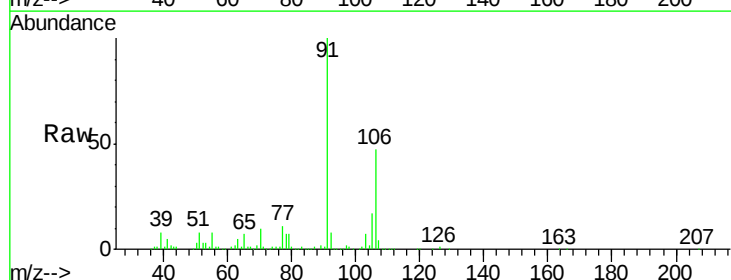
Acq: 18 Sep 2020 2:26

Tgt Ion: 91 Resp: 537366

Ion Ratio Lower Upper

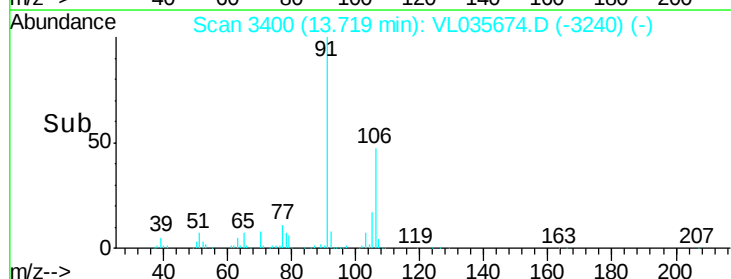
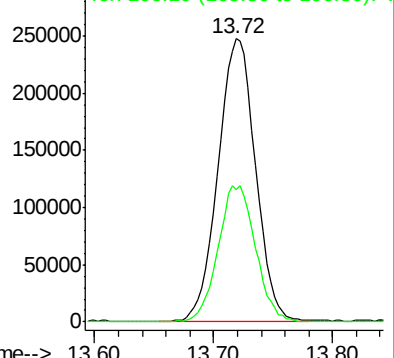
91 100

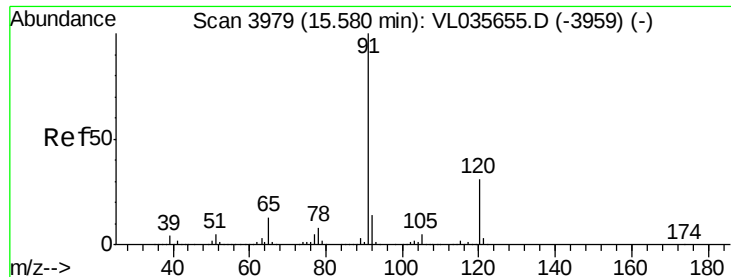
106 48.3 25.8 77.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





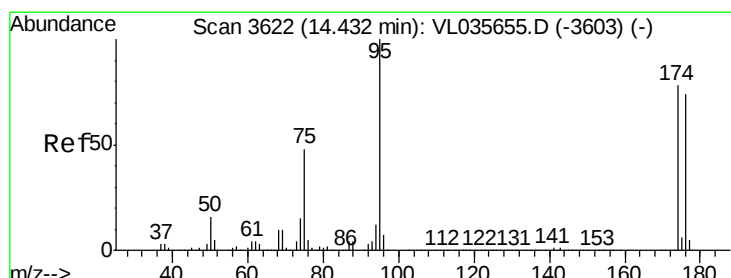
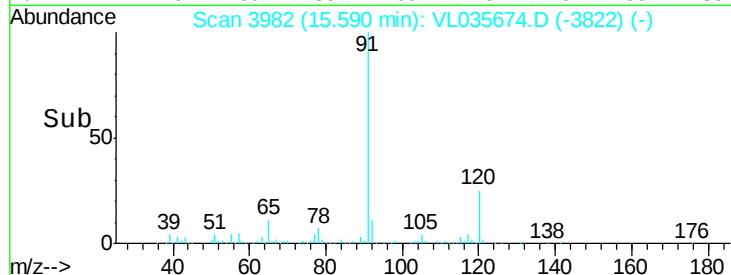
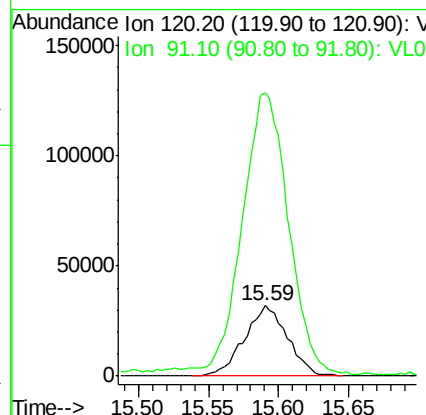
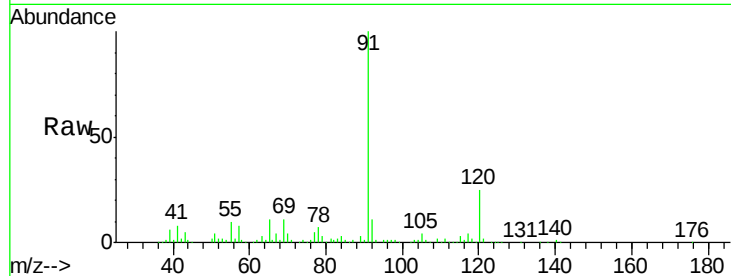
#64
n-propylbenzene
Concen: 0.361 ppbv
RT: 15.59 min Scan# 3982
Delta R.T. 0.01 min
Lab File: VL035674.D
Acq: 18 Sep 2020 2:26

Instrument :
MSVOA_L
ClientSampled :
SV-12

Tot Ion:120 Resp: 67389
Ion Ratio Lower Upper
120 100
91 440.1 279.4 419.0#

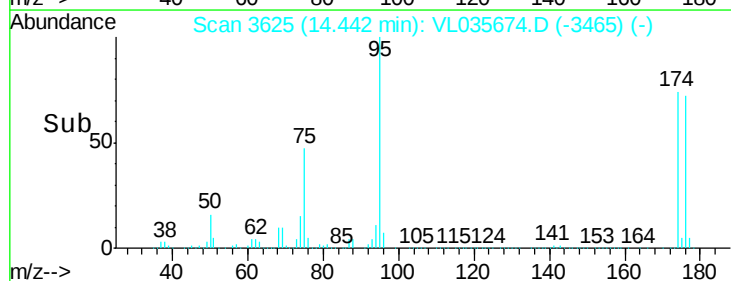
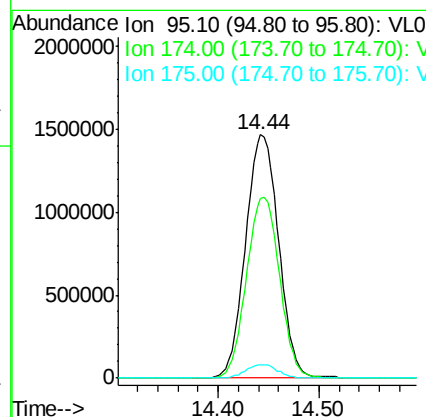
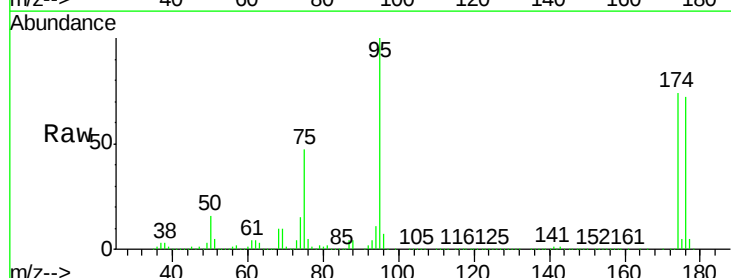
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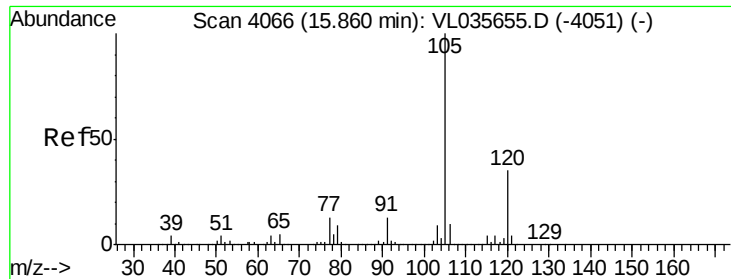
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.682 ppbv
RT: 14.44 min Scan# 3625
Delta R.T. 0.01 min
Lab File: VL035674.D
Acq: 18 Sep 2020 2:26

Tgt Ion: 95 Resp: 3327423
Ion Ratio Lower Upper
95 100
174 75.0 69.6 104.4
175 5.4 5.1 7.7





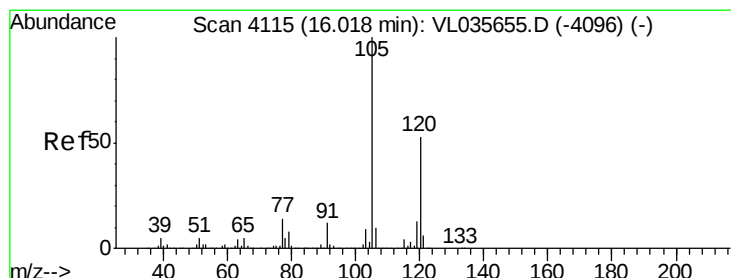
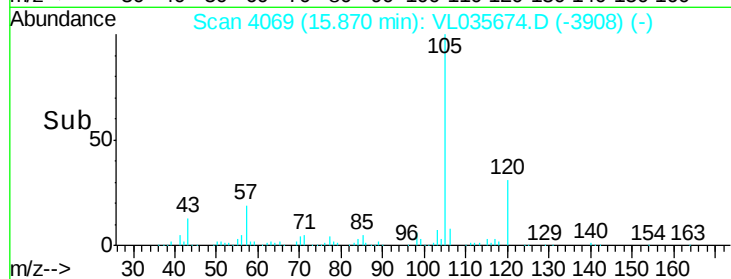
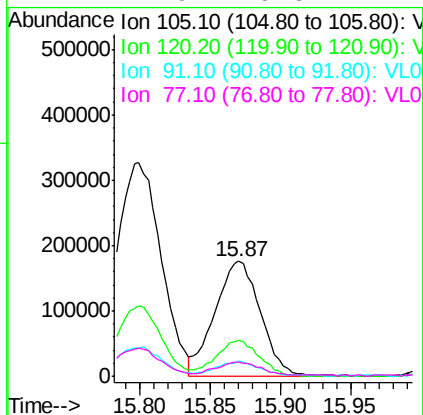
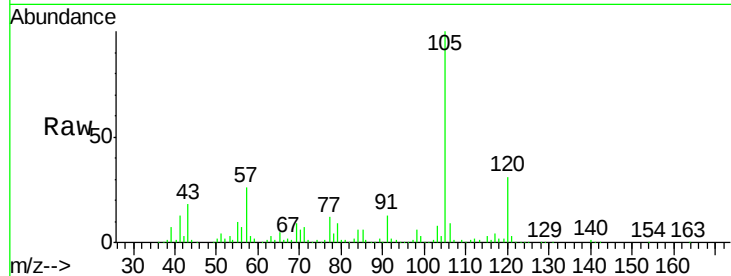
#72
 4-Ethyltoluene
 Concen: 0.810 ppbv
 RT: 15.87 min Scan# 4069
 Delta R.T. 0.02 min
 Lab File: VL035674.D
 Acq: 18 Sep 2020 2:26

Instrument :
 MSVOA_L
 ClientSampled :
 SV-12

Tot Ion	Ratio	Resp	Lower	Upper
105	100	392191		
120	30.1	27.4	41.2	
91	11.7	9.7	14.5	
77	11.9	9.6	14.4	

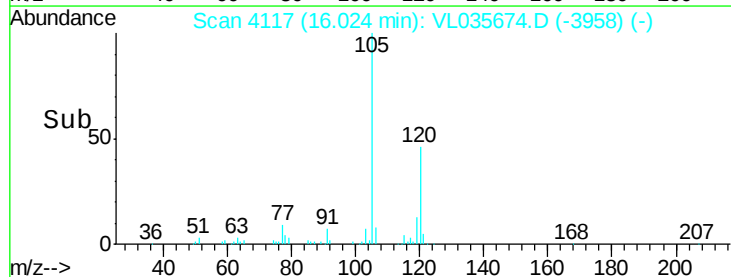
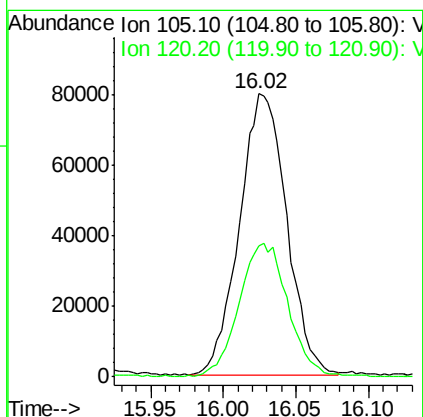
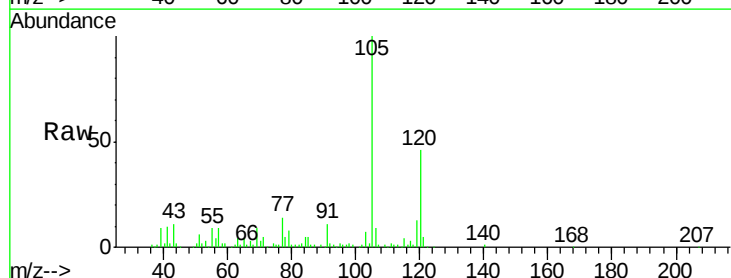
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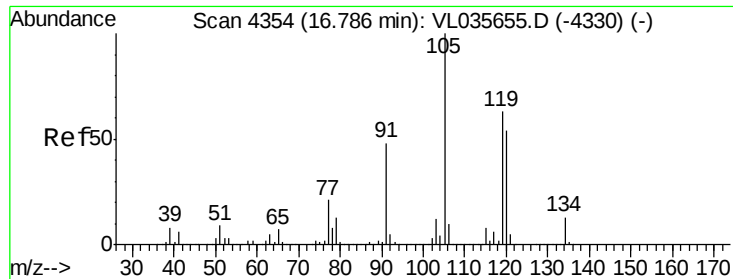
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#73
 1,3,5-Trimethylbenzene
 Concen: 0.404 ppbv
 RT: 16.02 min Scan# 4117
 Delta R.T. 0.01 min
 Lab File: VL035674.D
 Acq: 18 Sep 2020 2:26

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	180642		
120	46.0	44.2	66.2	





#74
 1,2,4-Trimethylbenzene
 Concen: 1.744 ppbv
 RT: 16.79 min Scan# 4356
 Delta R.T. 0.01 min
 Lab File: VL035674.D
 Acq: 18 Sep 2020 2:26

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-12

Tot Ion	Ratio	Resp Lower	Resp Upper
105	100		
120	46.6	44.4	66.6
91	10.7	37.1	55.7
77	12.3	16.0	24.0

Manual Integrations
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