

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110520\
 Data File : VL035864.D
 Acq On : 5 Nov 2020 17:38
 Operator : SY/AP
 Sample : L4220-07 2X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
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 11/9/2020 1:38:38 PM

Quant Time: Nov 08 14:12:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 0
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1146345	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	4546161	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	4325679	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	3179941	10.35	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	29419	0.136	ppbv	94
3) Chlorodifluoromethane	2.97	51	25963	0.189	ppbv #	89
9) Propene	3.00	41	167835m	3.340	ppbv	
10) Heptane	8.10	43	1461116	10.528	ppbv	99
11) Trichlorofluoromethane	3.93	101	31436	0.116	ppbv	99
13) Ethanol	3.59	45	12696m	1.165	ppbv	
15) Acetone	3.83	43	900834m	7.350	ppbv	
20) Methylene Chloride	4.32	84	91959	1.066	ppbv	94
26) Hexane	5.66	57	1906050	14.315	ppbv #	45
27) Carbon Disulfide	4.53	76	271782	1.362	ppbv	99
29) Chloroform	5.73	83	64318	0.246	ppbv	89
30) Cyclohexane	7.11	84	164923	1.137	ppbv #	79
34) 2-Butanone	5.23	43	55705	0.378	ppbv #	81
36) Benzene	6.86	78	188125	0.557	ppbv	94
52) Tetrachloroethene	11.20	164	161024	1.006	ppbv	98
53) Toluene	9.78	91	571796	1.402	ppbv	99
58) Ethyl Benzene	12.68	91	249712	0.474	ppbv	90
59) m/p-Xylene	12.95	91	622215	1.396	ppbv	99
60) o-Xylene	13.67	91	258983	0.597	ppbv	97
64) n-propylbenzene	15.54	120	55510	0.282	ppbv #	51
70) n-Butylbenzene	18.56	91	554440	0.835	ppbv	97
72) 4-Ethyltoluene	15.82	105	115331	0.219	ppbv #	91
73) 1,3,5-Trimethylbenzene	15.98	105	66648m	0.138	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	273991m	0.531	ppbv	

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

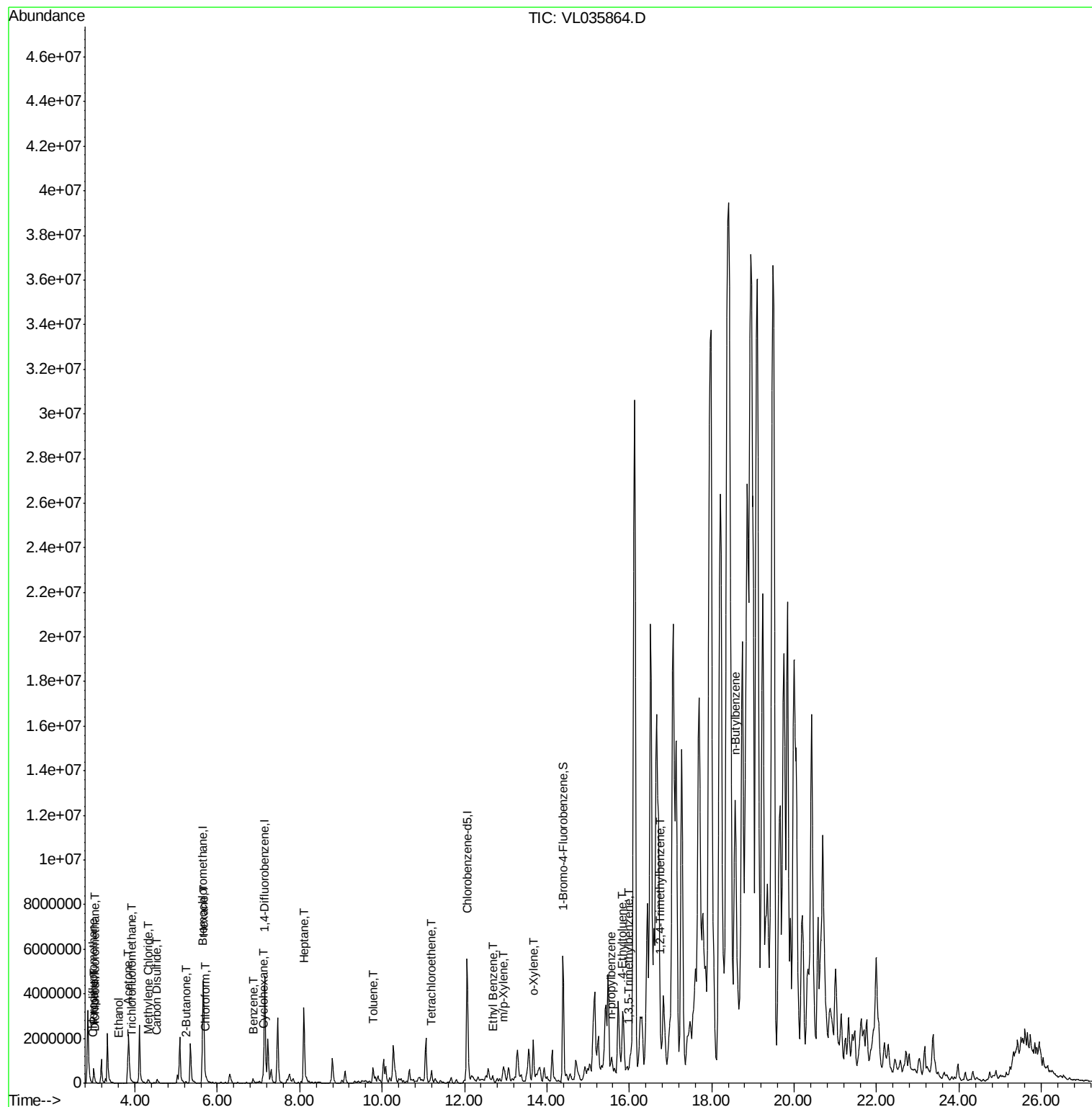
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL110520\
Data File : VL035864.D
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Misc : 400ml/MSVOA L
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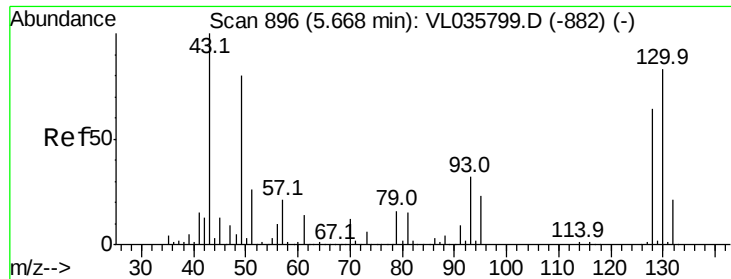
Instrument :
MSVOA_L
ClientSampleId :
SV2

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Quant Time: Nov 08 14:12:50 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.03 min

Lab File: VL035864.D

Acq: 5 Nov 2020 17:38

Instrument :

MSVOA_L

ClientSampled :

SV2

Tot Ion: 49 Resp: 1146345

Ion Ratio Lower Upper

49 100

128 82.0 41.5 124.6

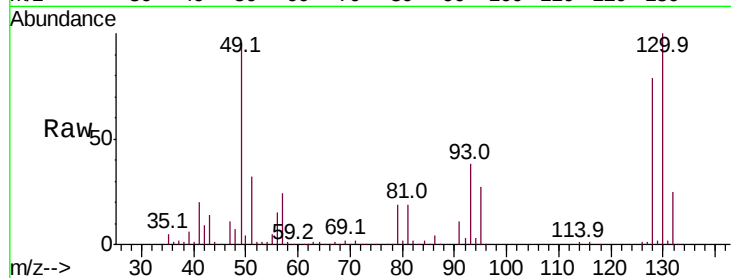
130 105.7 53.7 161.1

Manual Integrations

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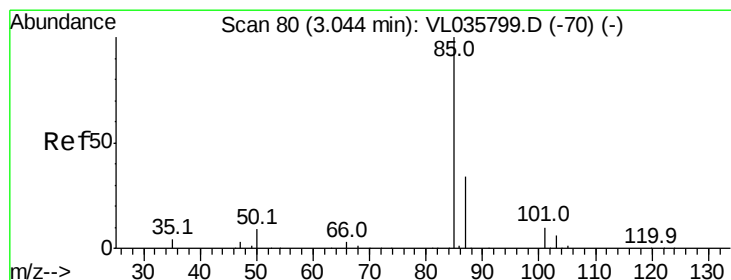
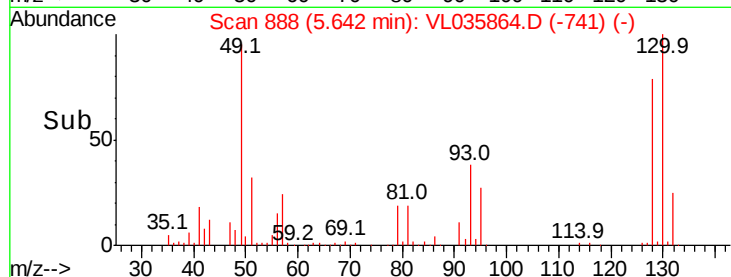
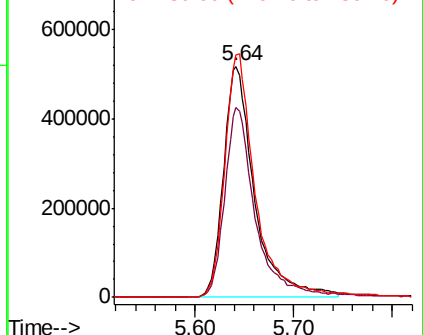
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.136 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.02 min

Lab File: VL035864.D

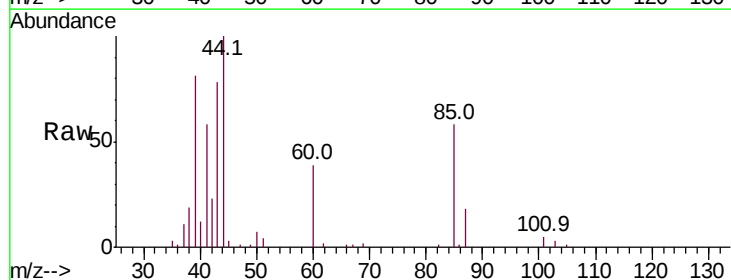
Acq: 5 Nov 2020 17:38

Tgt Ion: 85 Resp: 29419

Ion Ratio Lower Upper

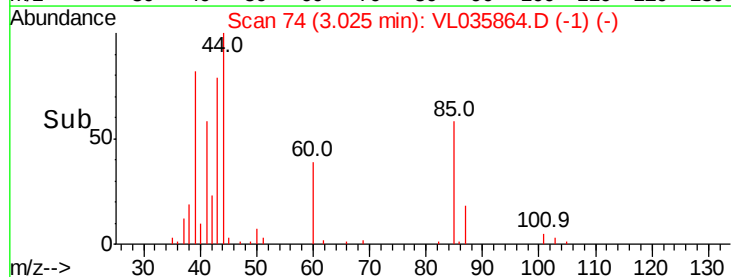
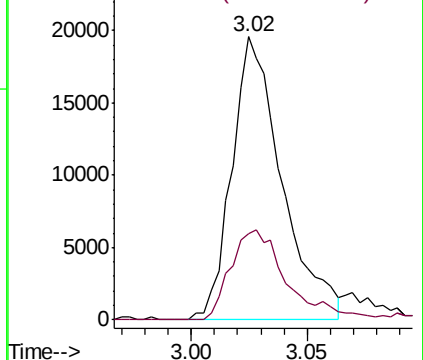
85 100

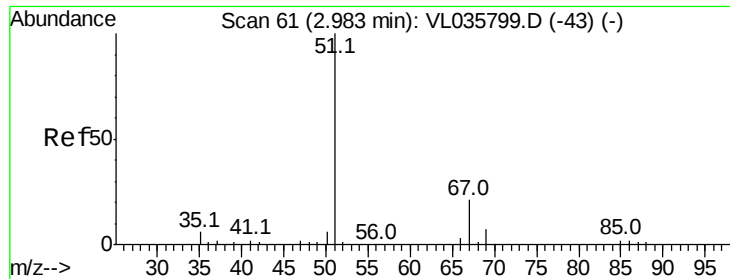
87 30.7 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





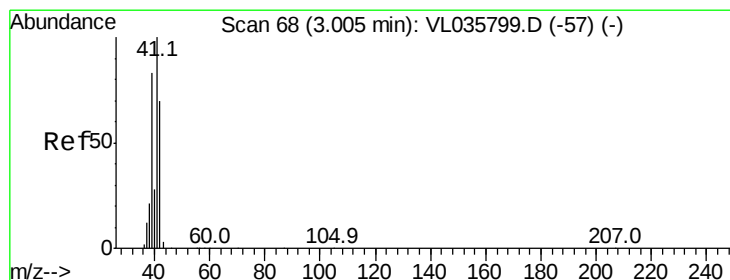
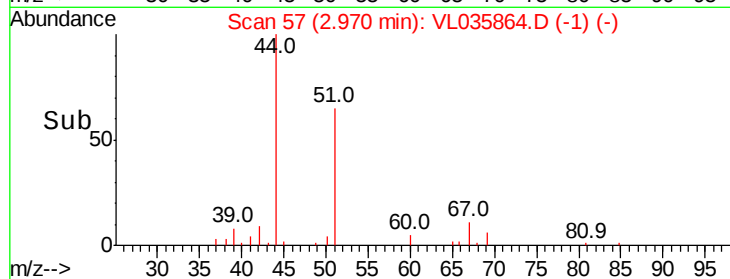
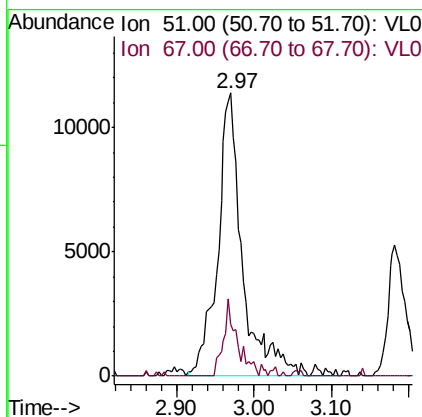
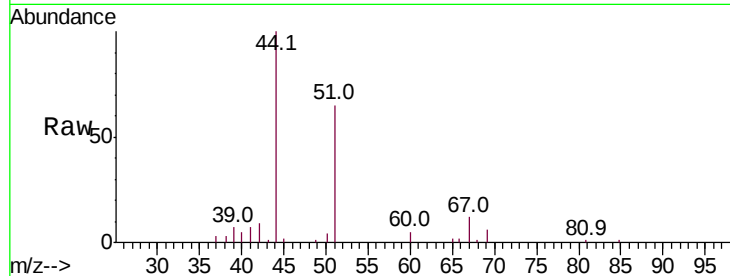
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 Chlorodifluoromethane
 Concen: 0.189 ppbv
 RT: 2.97 min Scan# 57
 Delta R.T. -0.01 min
 Lab File: VL035864.D
 Acq: 5 Nov 2020 17:38

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Tot Ion	Ratio	Lower	Upper
51	100		
67	16.2	17.0	25.4#

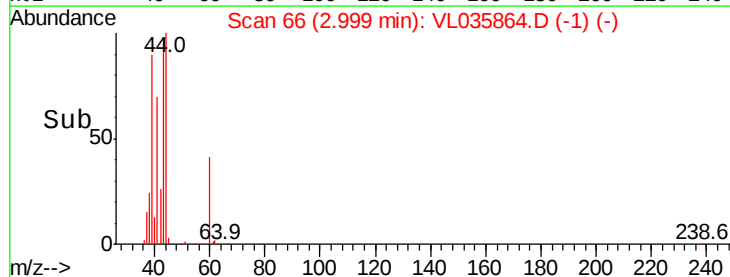
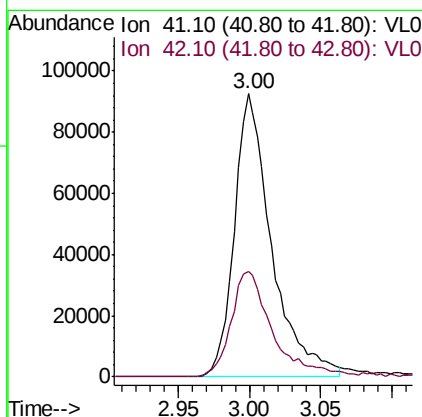
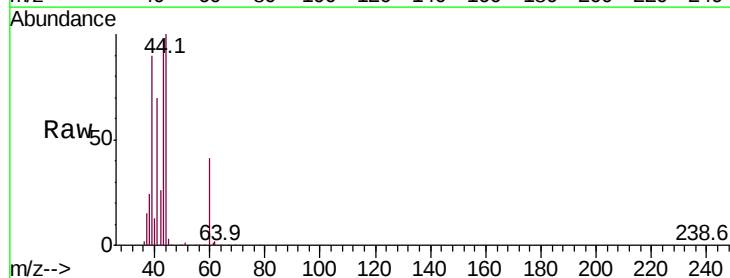
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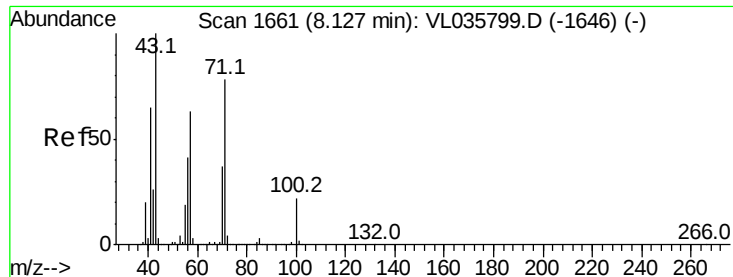
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#9
 Propene
 Concen: 3.340 ppbv m
 RT: 3.00 min Scan# 66
 Delta R.T. -0.01 min
 Lab File: VL035864.D
 Acq: 5 Nov 2020 17:38

Tgt Ion	Ratio	Lower	Upper
41	100		
42	149.4	56.2	84.4#





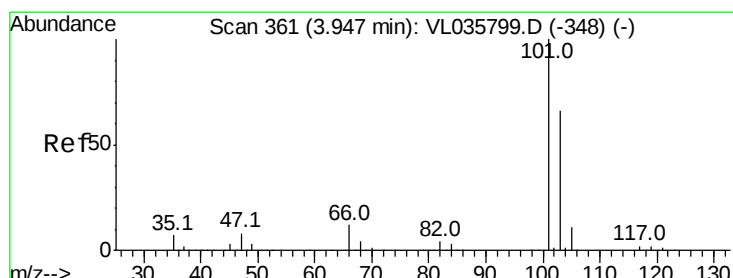
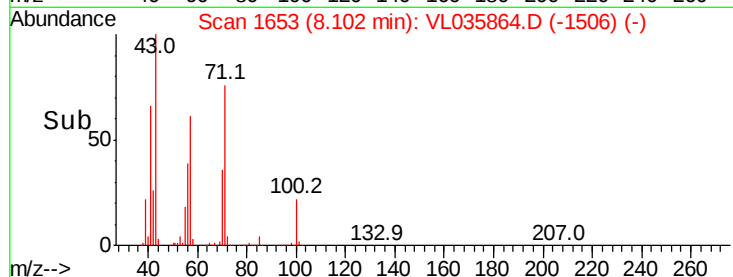
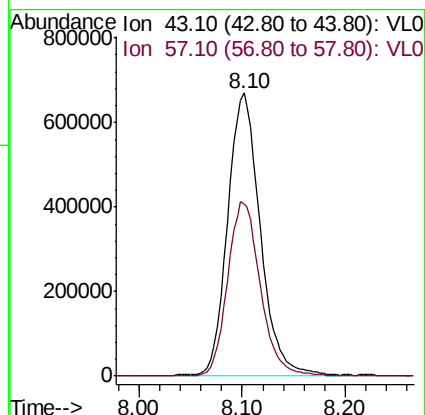
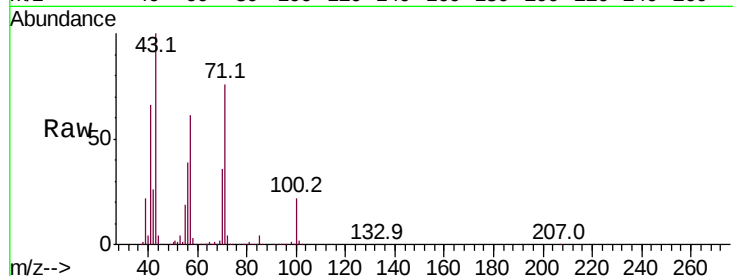
#10
Heptane
Concen: 10.528 ppbv
RT: 8.10 min Scan# 1653
Delta R.T. -0.03 min
Lab File: VL035864.D
Acq: 5 Nov 2020 17:38

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion: 43 Resp: 1461116
Ion Ratio Lower Upper
43 100
57 63.0 50.0 75.0

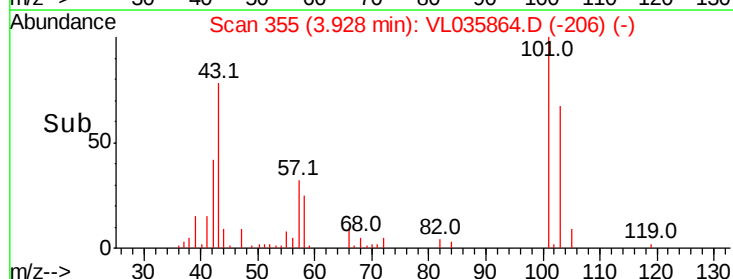
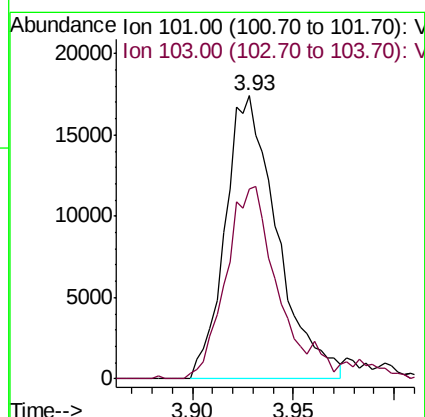
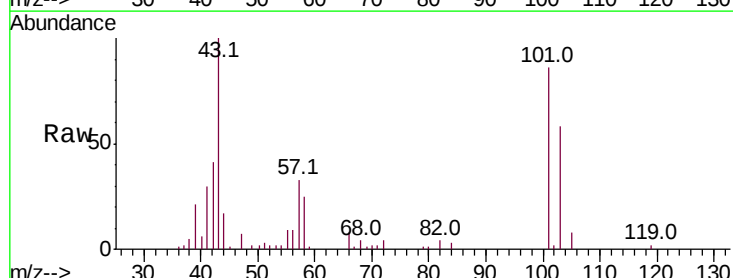
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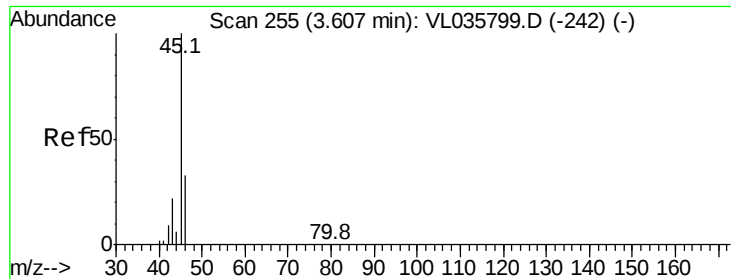
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#11
Trichlorofluoromethane
Concen: 0.116 ppbv
RT: 3.93 min Scan# 355
Delta R.T. -0.02 min
Lab File: VL035864.D
Acq: 5 Nov 2020 17:38

Tgt Ion: 101 Resp: 31436
Ion Ratio Lower Upper
101 100
103 65.2 53.0 79.4





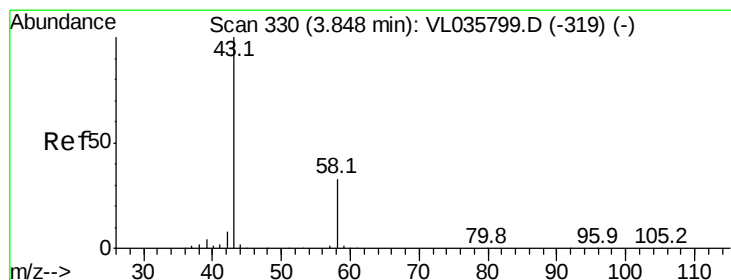
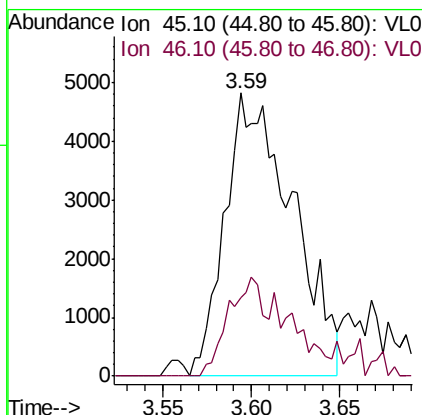
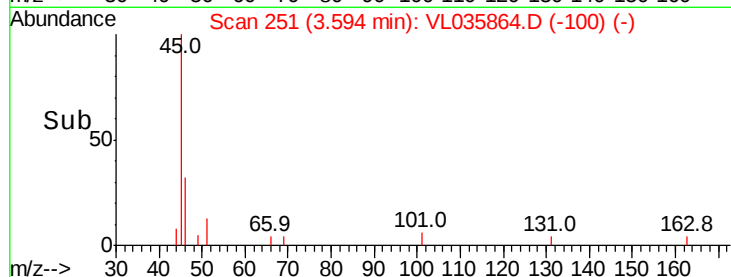
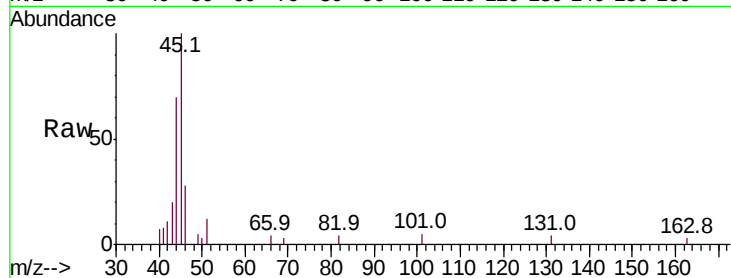
#13
Ethanol
Concen: 1.165 ppbv m
RT: 3.59 min Scan# 251
Delta R.T. -0.01 min
Lab File: VL035864.D
Acq: 5 Nov 2020 17:38

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion: 45 Resp: 12696
Ion Ratio Lower Upper
45 100
46 0.0 16.1 64.5#

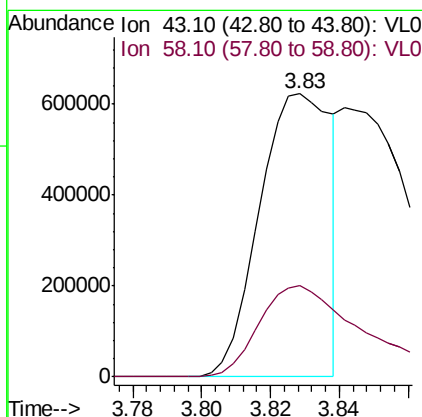
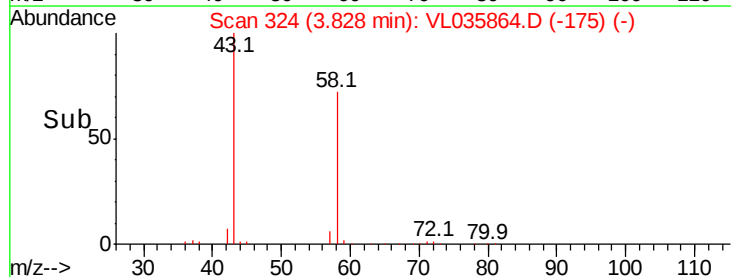
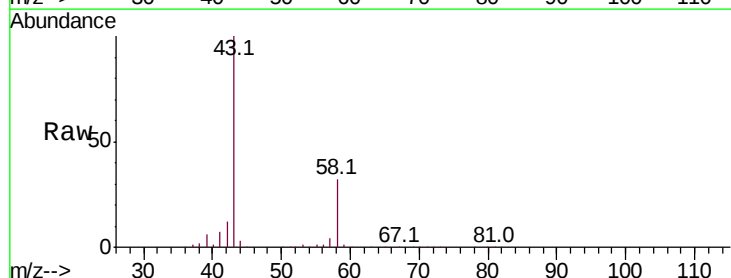
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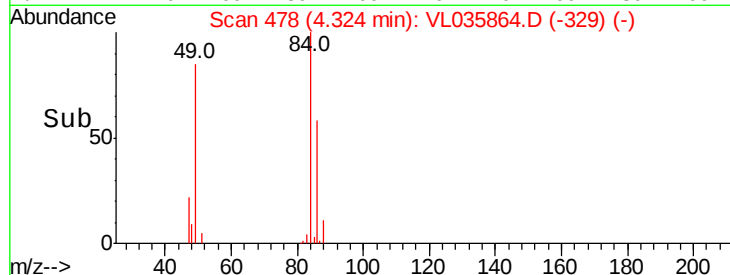
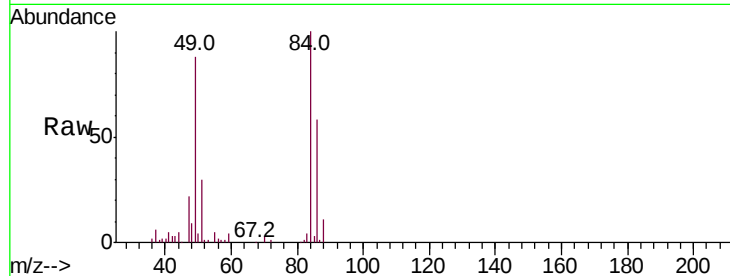
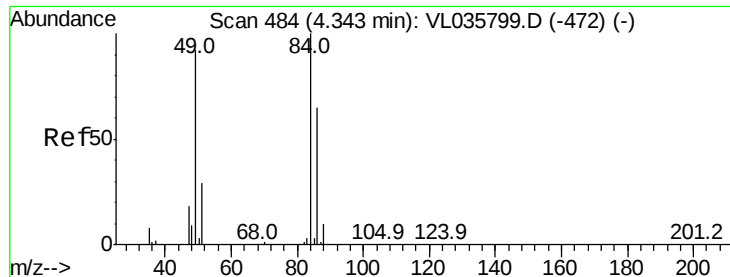
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#15
Acetone
Concen: 7.350 ppbv m
RT: 3.83 min Scan# 324
Delta R.T. -0.02 min
Lab File: VL035864.D
Acq: 5 Nov 2020 17:38

Tgt Ion: 43 Resp: 900834
Ion Ratio Lower Upper
43 100
58 52.7 27.5 41.3#





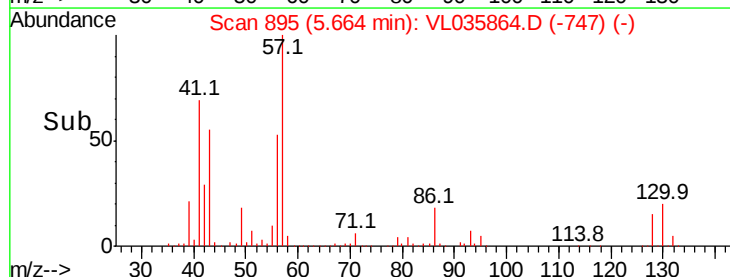
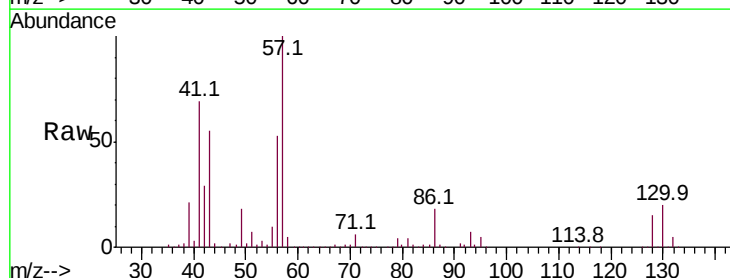
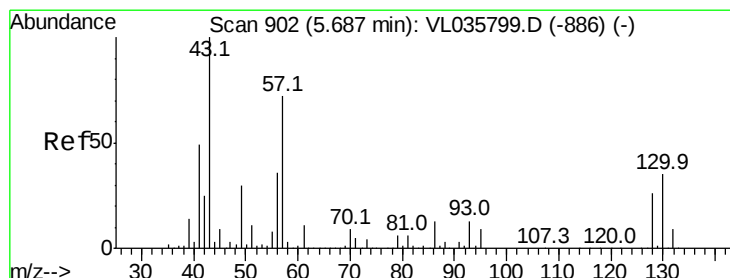
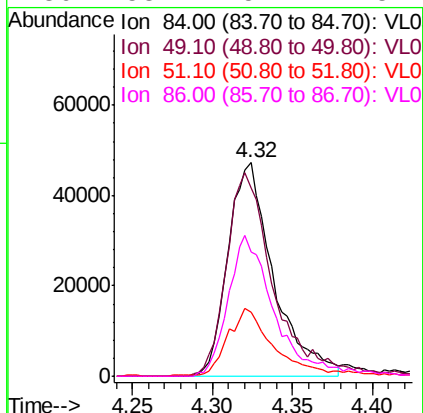
#20
Methvlene Chloride
Concen: 1.066 ppbv
RT: 4.32 min Scan# 478
Delta R.T. -0.02 min
Lab File: VL035864.D
Acq: 5 Nov 2020 17:38

Tot Ion	84	Resp	91959
Ion Ratio	Lower	Upper	
84	100		
49	88.1	73.8	110.8
51	29.7	23.0	34.4
86	58.1	52.1	78.1

Instrument :
MSVOA_L
ClientSampled :
SV2

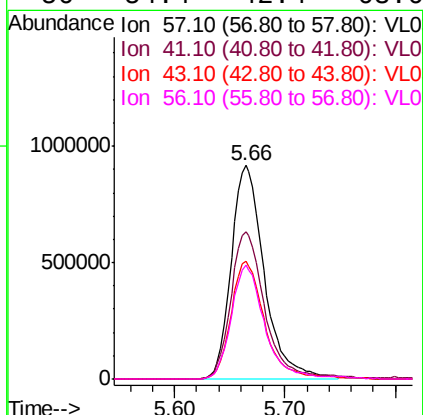
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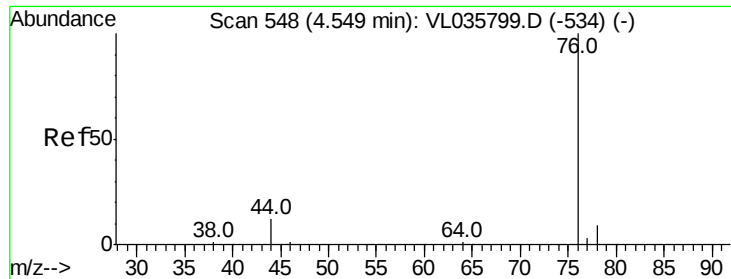
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#26
Hexane
Concen: 14.315 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL035864.D
Acq: 5 Nov 2020 17:38

Tgt Ion	57	Resp	1906050
Ion Ratio	Lower	Upper	
57	100		
41	71.7	58.9	88.3
43	56.2	150.2	225.2#
56	54.4	42.4	63.6





#27

Carbon Disulfide

Concen: 1.362 ppbv

RT: 4.53 min Scan# 542

Delta R.T. -0.02 min

Lab File: VL035864.D

Acq: 5 Nov 2020 17:38

Instrument :

MSVOA_L

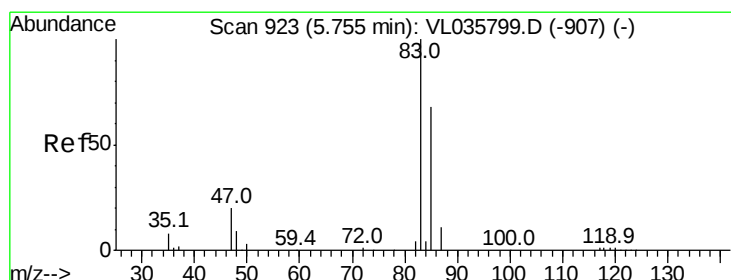
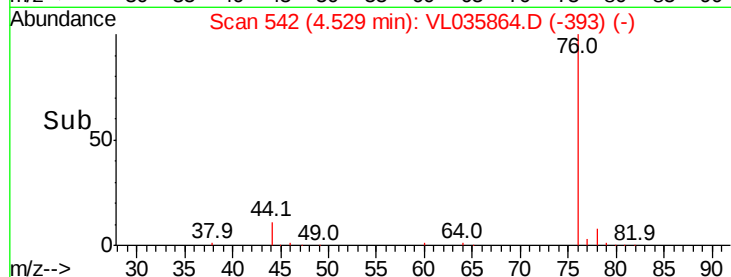
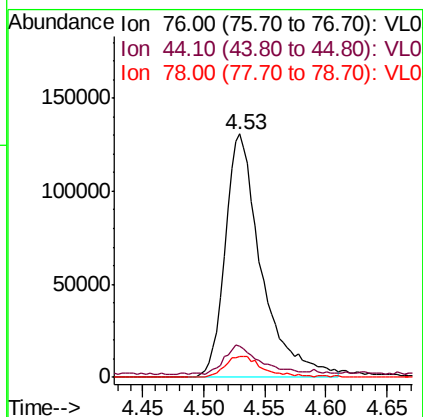
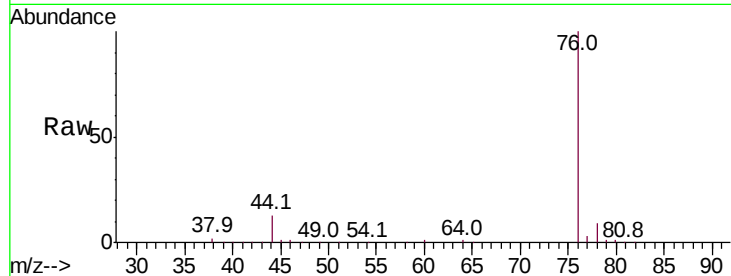
ClientSampleId :

SV2

Tot Ion:	76	Resp:	271782
Ion	Ratio	Lower	Upper
76	100		
44	12.4	9.9	14.9
78	9.1	8.1	12.1

Manual Integrations
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#29

Chloroform

Concen: 0.246 ppbv

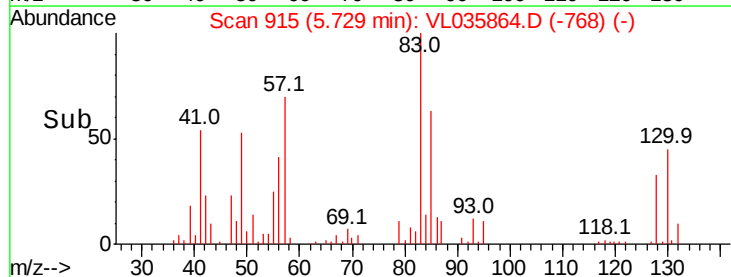
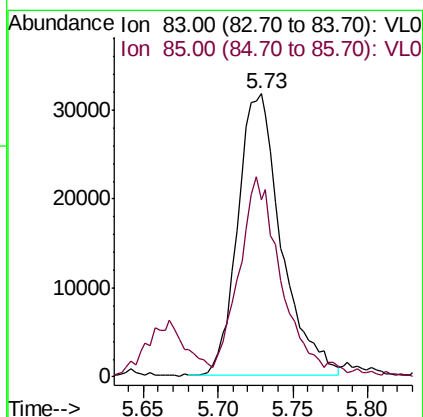
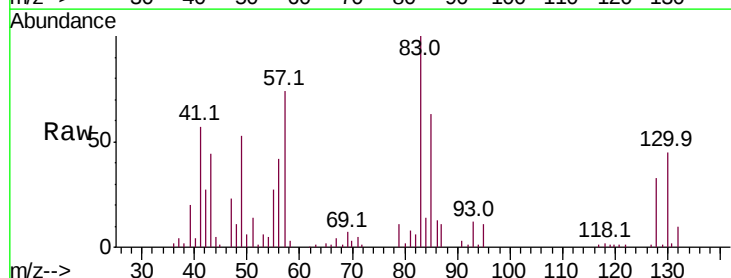
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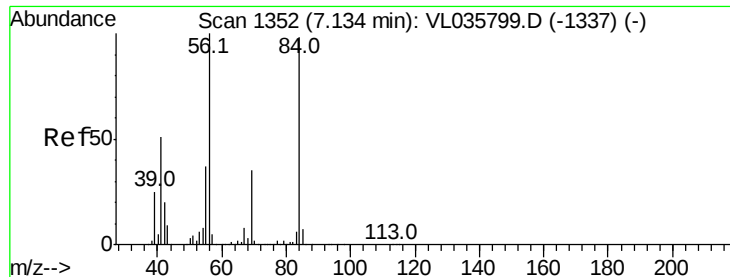
Delta R.T. -0.03 min

Lab File: VL035864.D

Acq: 5 Nov 2020 17:38

Tgt Ion:	83	Resp:	64318
Ion	Ratio	Lower	Upper
83	100		
85	59.1	54.6	81.8





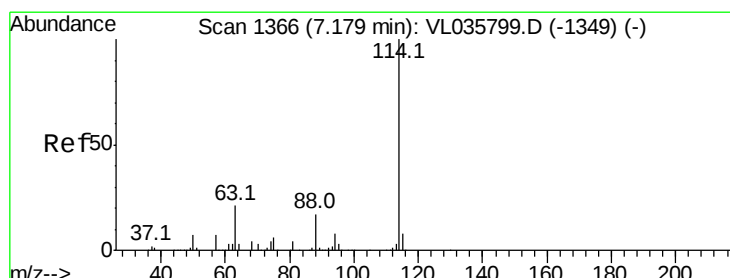
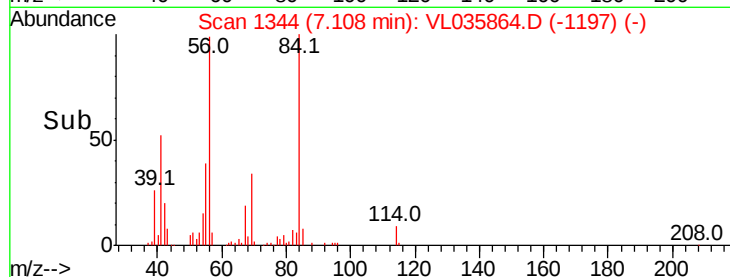
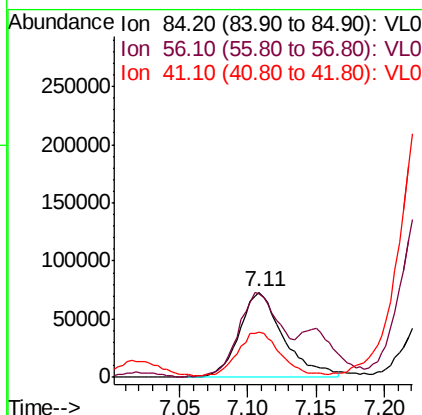
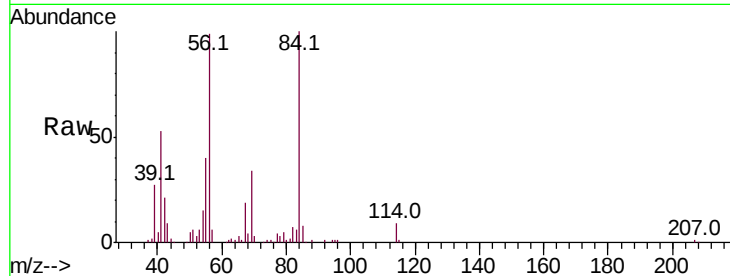
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Cvclohexane
Concen: 1.137 ppbv
RT: 7.11 min Scan# 1344
Delta R.T. -0.03 min
Lab File: VL035864.D
Acq: 5 Nov 2020 17:38

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion	Ratio	Lower	Upper
84	100		
56	137.9	86.4	129.6#
41	49.1	42.1	63.1

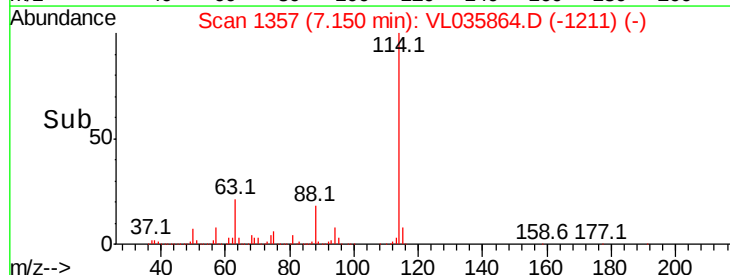
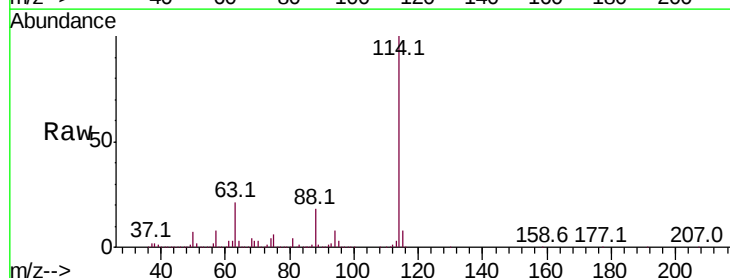
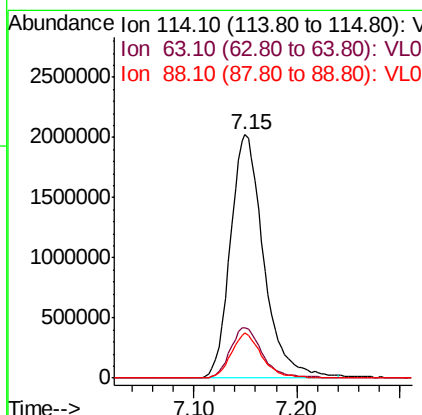
Manual Integrations
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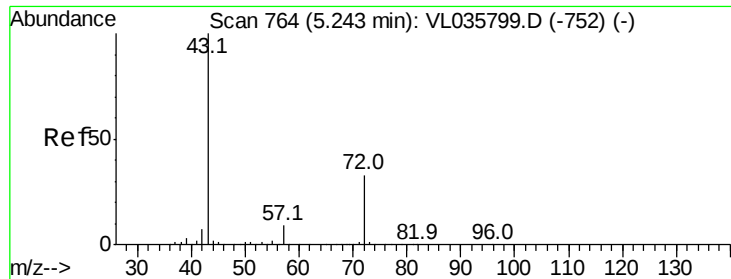
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. -0.03 min
Lab File: VL035864.D
Acq: 5 Nov 2020 17:38

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.4	16.1	24.1
88	17.2	13.7	20.5





#34

2-Butanone

Concen: 0.378 ppbv

RT: 5.23 min Scan# 760

Delta R.T. -0.01 min

Lab File: VL035864.D

Acq: 5 Nov 2020 17:38

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tot Ion: 43 Resp: 55705

Ion Ratio Lower Upper

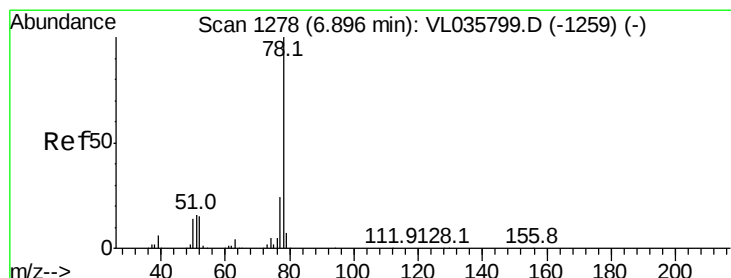
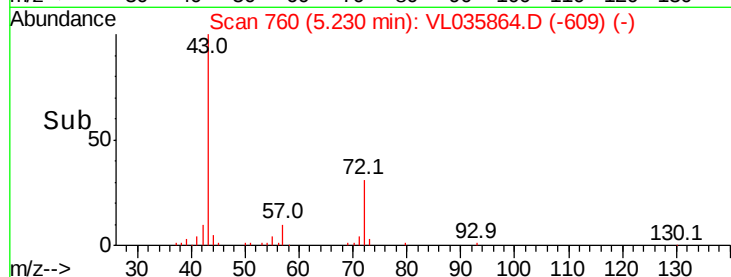
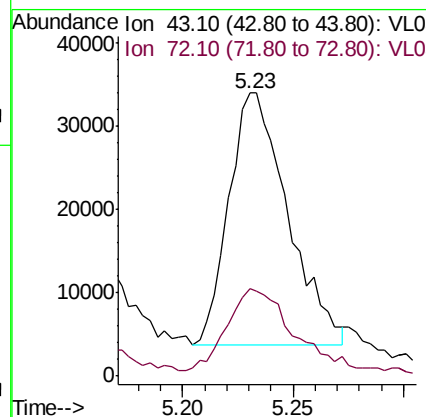
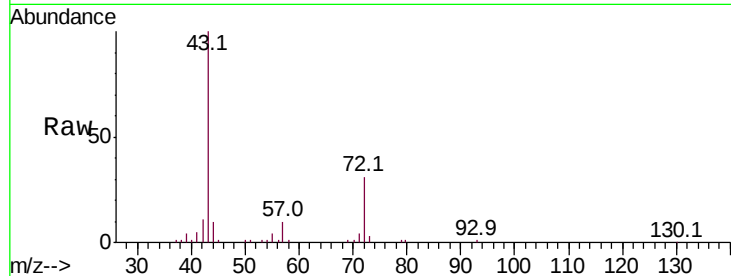
43 100

72 44.0 26.5 39.7#

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#36

Benzene

Concen: 0.557 ppbv

RT: 6.86 min Scan# 1268

Delta R.T. -0.03 min

Lab File: VL035864.D

Acq: 5 Nov 2020 17:38

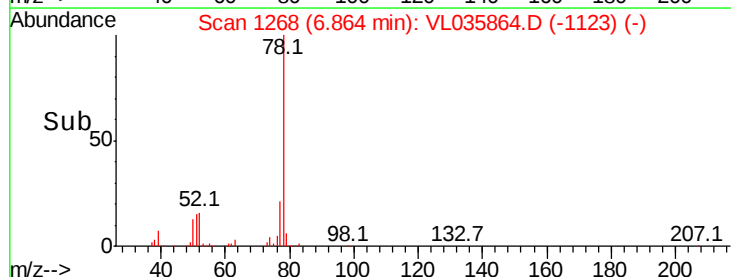
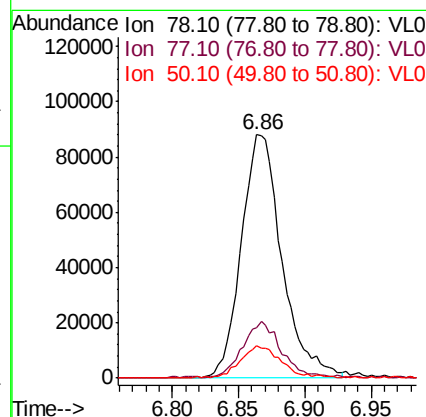
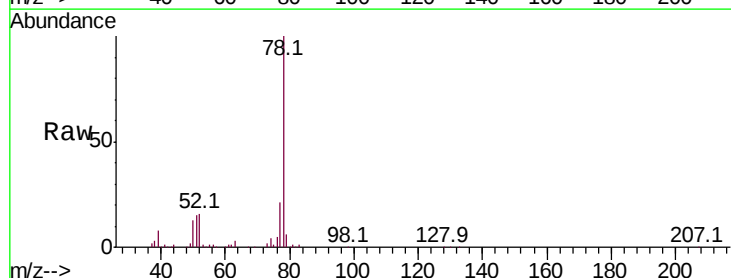
Tgt Ion: 78 Resp: 188125

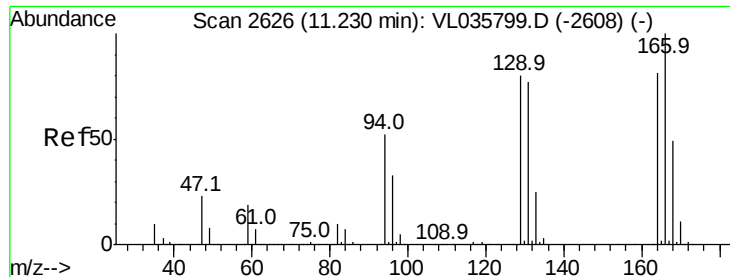
Ion Ratio Lower Upper

78 100

77 20.0 19.3 28.9

50 13.2 11.4 17.2





#52

Tetrachloroethene

Concen: 1.006 ppbv

RT: 11.20 min Scan# 2616

Delta R.T. -0.03 min

Lab File: VL035864.D

Acq: 5 Nov 2020 17:38

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tot Ion:164 Resp: 161024

Ion Ratio Lower Upper

164 100

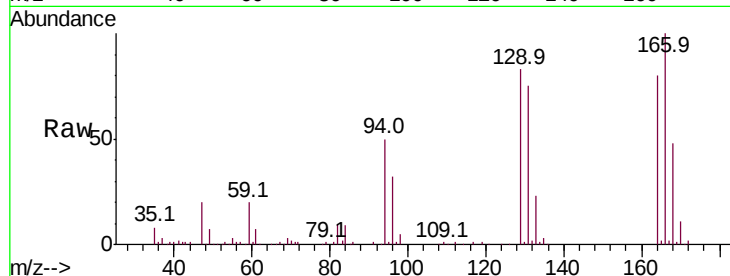
166 124.5 99.3 148.9

129 103.7 79.3 118.9

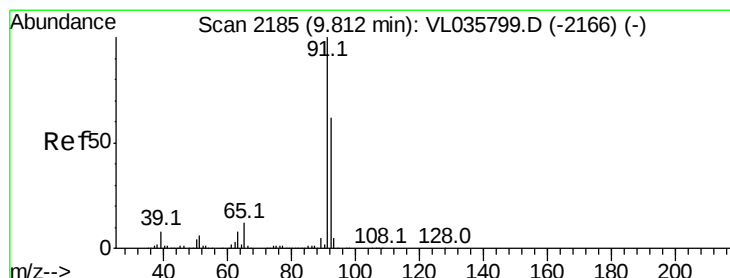
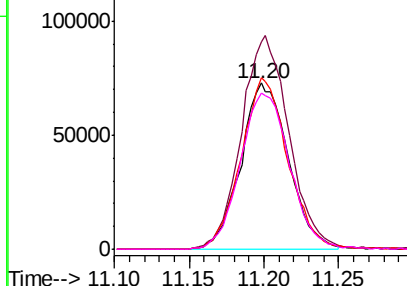
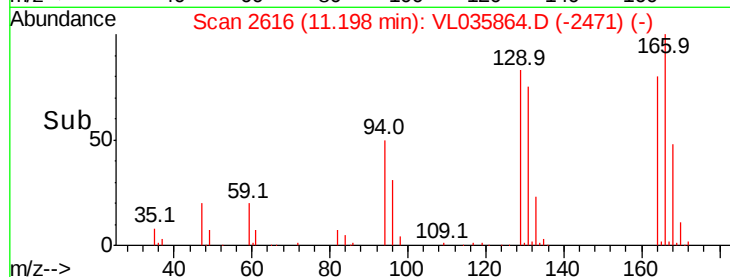
131 94.1 76.5 114.7

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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: 1.402 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.03 min

Lab File: VL035864.D

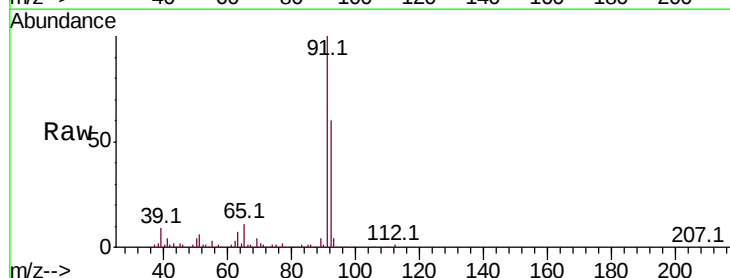
Acq: 5 Nov 2020 17:38

Tgt Ion: 91 Resp: 571796

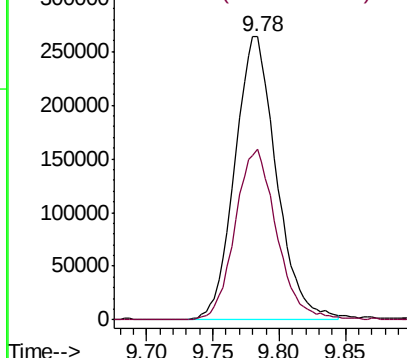
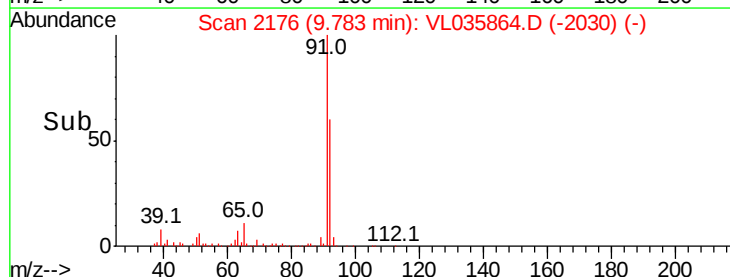
Ion Ratio Lower Upper

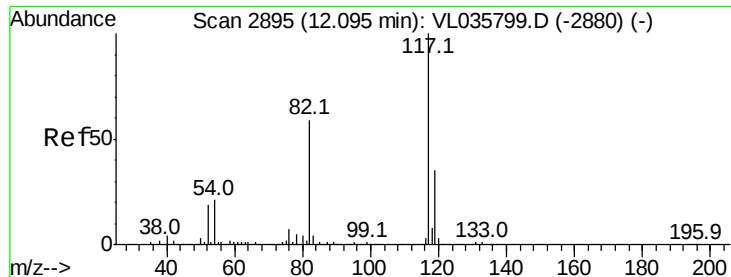
91 100

92 61.3 49.8 74.6



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





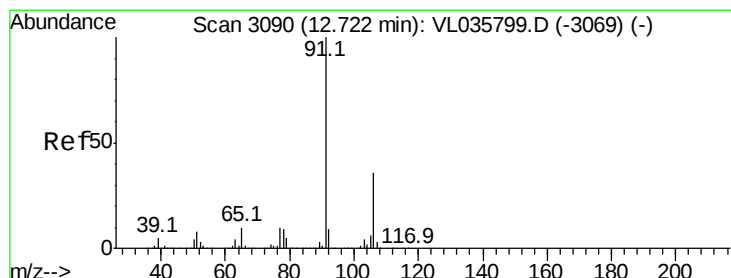
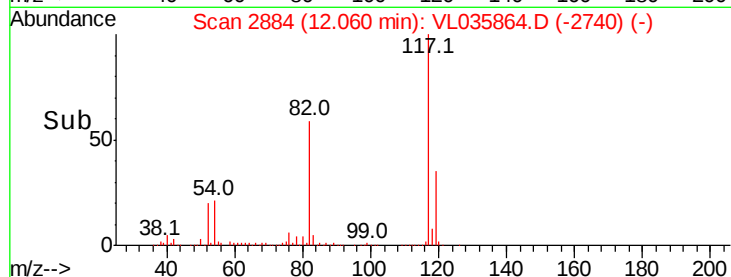
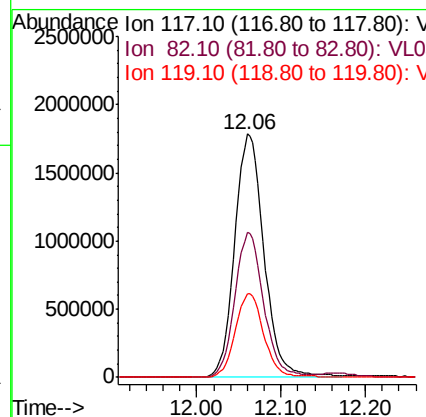
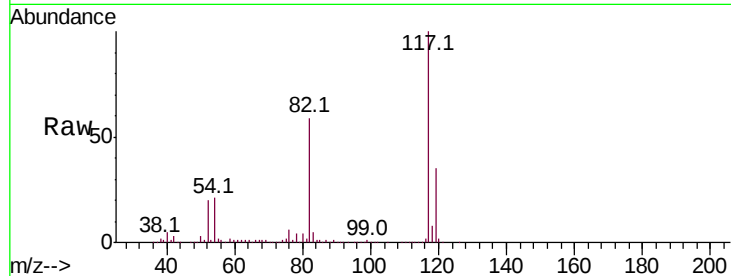
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2884
Delta R.T. -0.04 min
Lab File: VL035864.D
Acq: 5 Nov 2020 17:38

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion:117 Resp: 4325679
Ion Ratio Lower Upper
117 100
82 58.2 50.6 76.0
119 34.0 52.6 78.8#

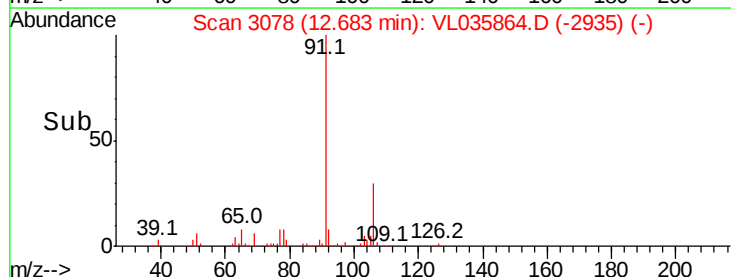
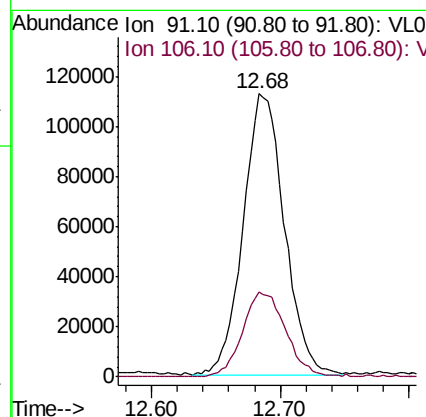
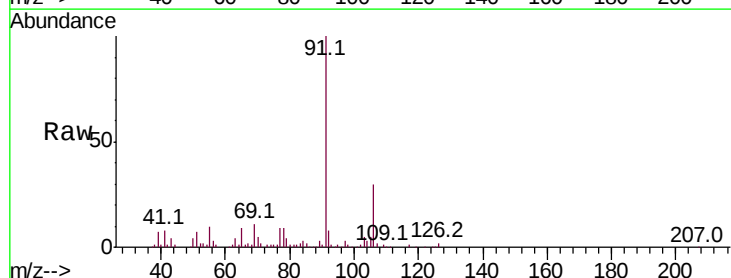
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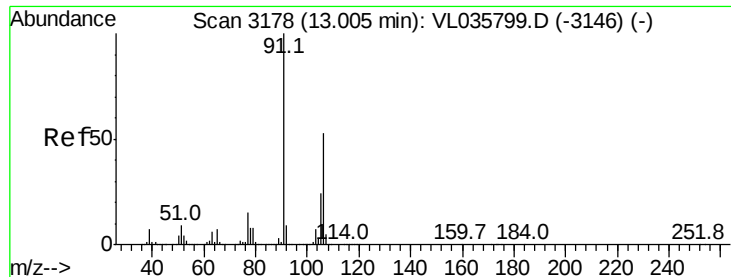
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#58
Ethyl Benzene
Concen: 0.474 ppbv
RT: 12.68 min Scan# 3078
Delta R.T. -0.04 min
Lab File: VL035864.D
Acq: 5 Nov 2020 17:38

Tgt Ion: 91 Resp: 249712
Ion Ratio Lower Upper
91 100
106 29.8 28.6 43.0





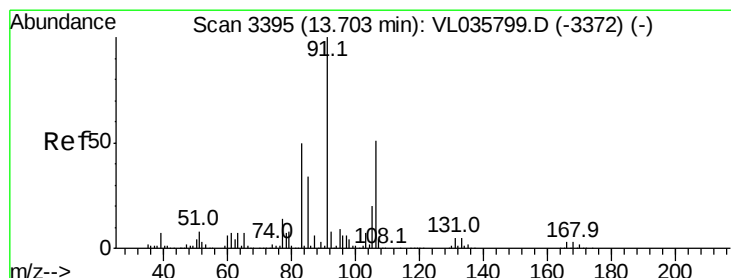
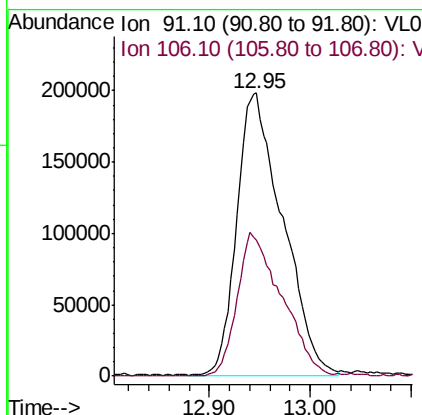
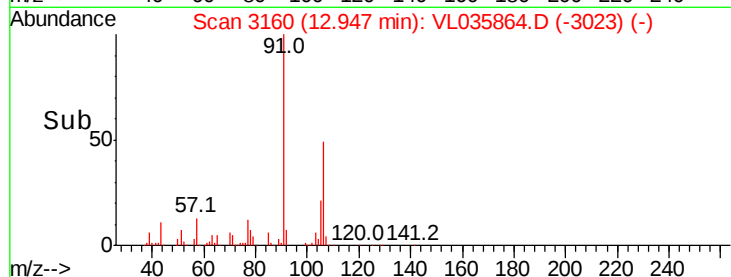
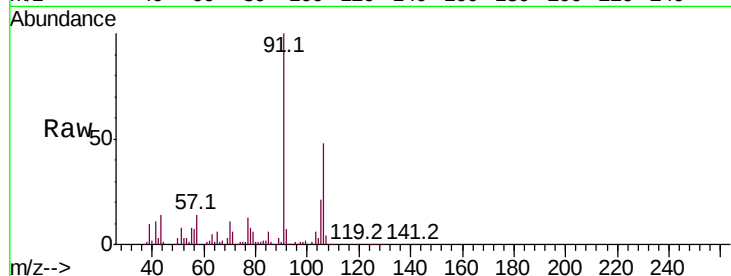
#59
m/p-Xylene
Concen: 1.396 ppbv
RT: 12.95 min Scan# 3160
Delta R.T. -0.06 min
Lab File: VL035864.D
Acq: 5 Nov 2020 17:38

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion	Ratio	Lower	Upper
91	100		
106	50.1	39.5	59.3

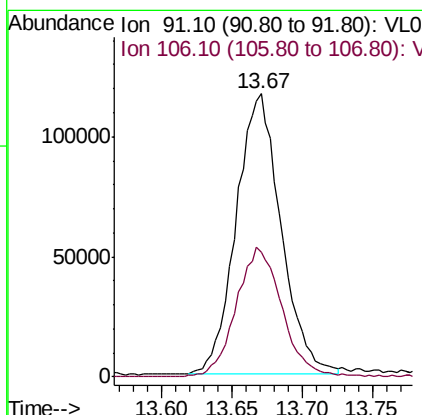
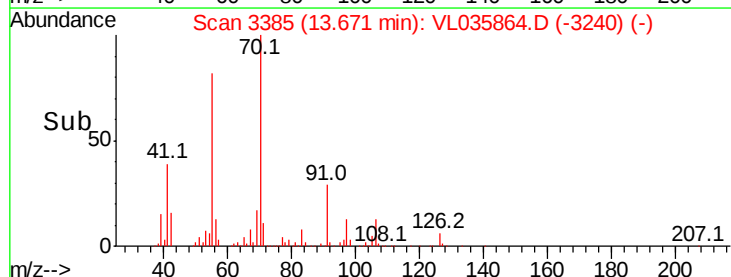
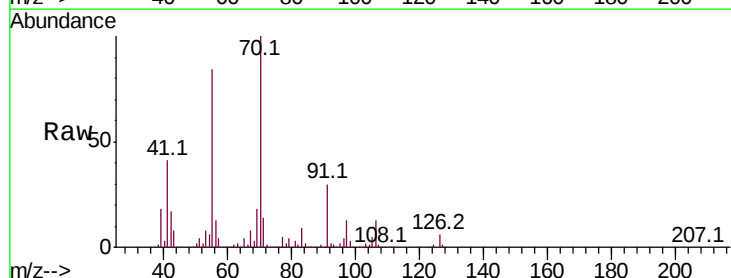
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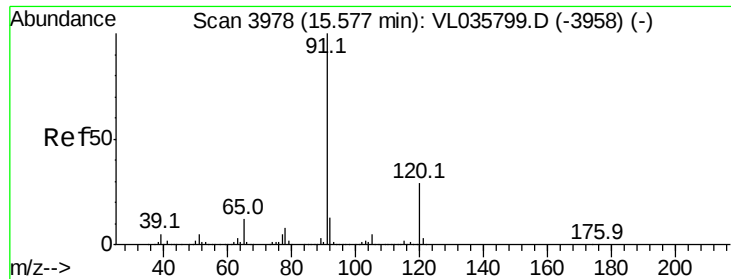
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#60
o-Xylene
Concen: 0.597 ppbv
RT: 13.67 min Scan# 3385
Delta R.T. -0.03 min
Lab File: VL035864.D
Acq: 5 Nov 2020 17:38

Tgt Ion	Ratio	Lower	Upper
91	100		
106	47.9	24.8	74.4





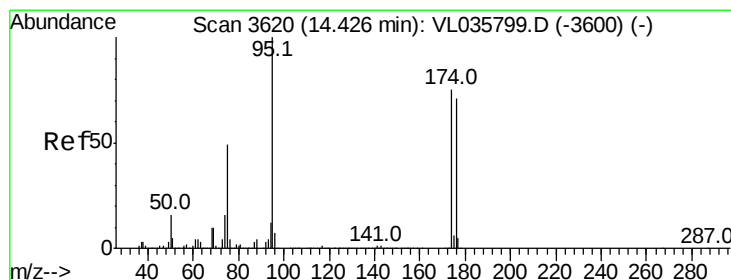
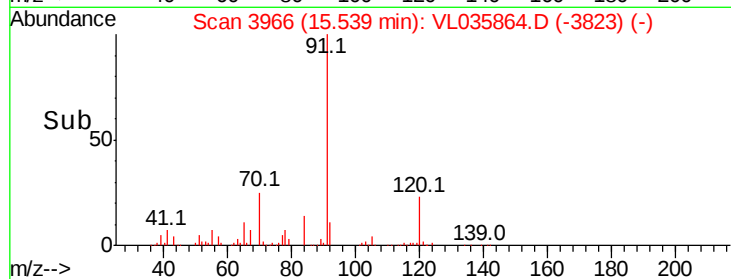
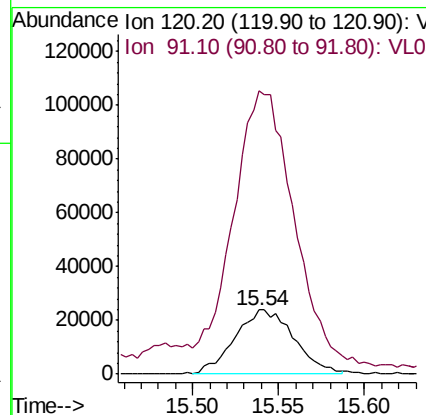
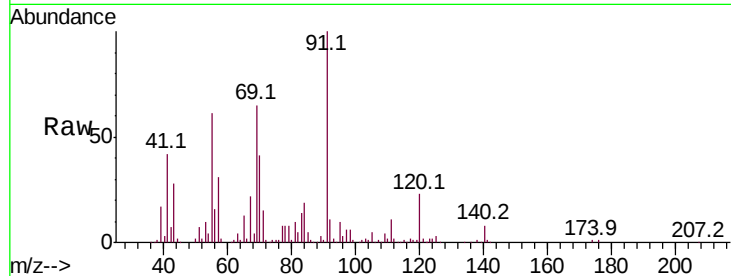
#64
n-propylbenzene
Concen: 0.282 ppbv
RT: 15.54 min Scan# 3966
Delta R.T. -0.04 min
Lab File: VL035864.D
Acq: 5 Nov 2020 17:38

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion:120 Resp: 55510
Ion Ratio Lower Upper
120 100
91 502.7 311.1 466.7#

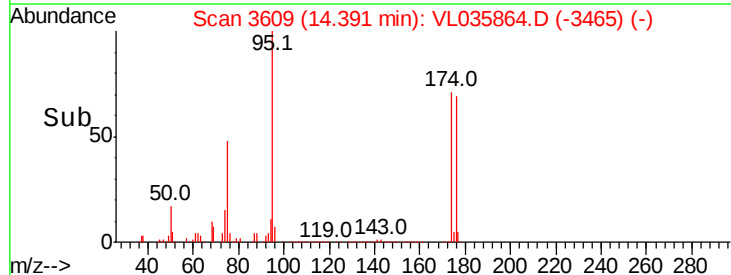
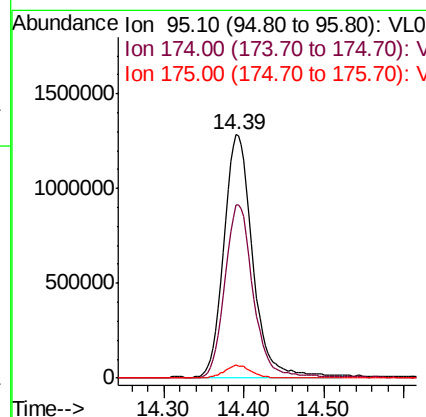
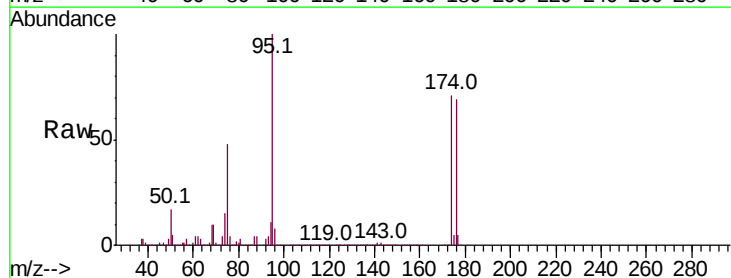
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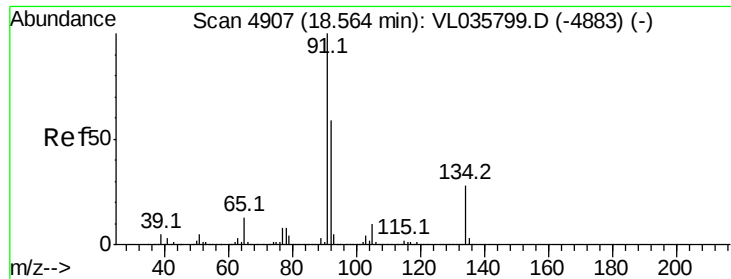
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.347 ppbv
RT: 14.39 min Scan# 3609
Delta R.T. -0.04 min
Lab File: VL035864.D
Acq: 5 Nov 2020 17:38

Tgt Ion: 95 Resp: 3179941
Ion Ratio Lower Upper
95 100
174 72.2 59.8 89.6
175 5.1 4.3 6.5





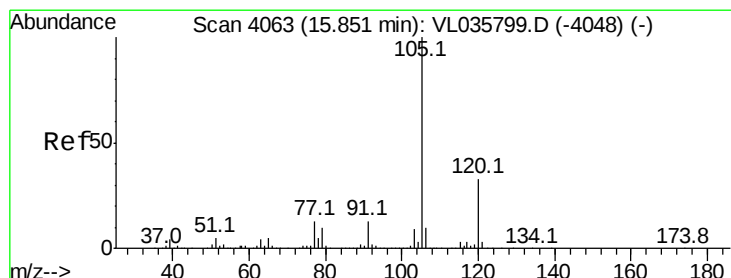
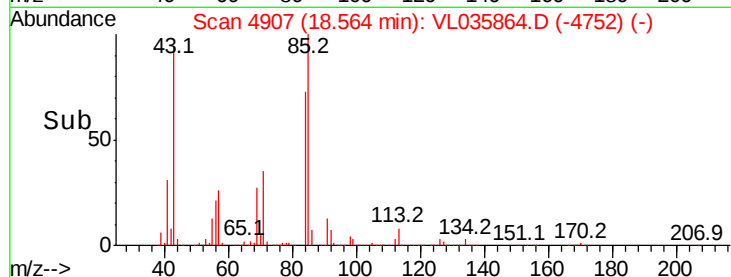
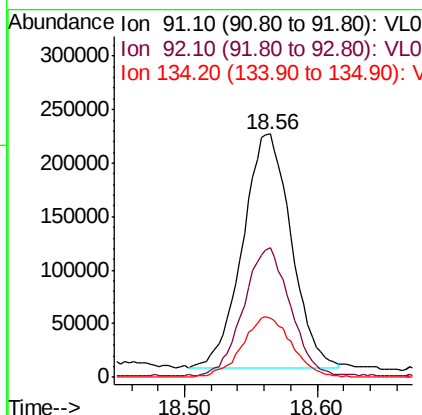
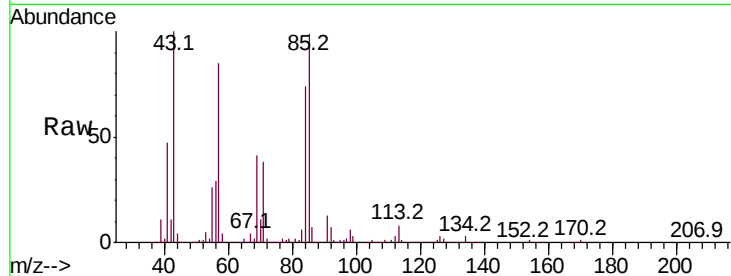
#70
n-Butylbenzene
Concen: 0.835 ppbv
RT: 18.56 min Scan# 4907
Delta R.T. -0.00 min
Lab File: VL035864.D
Acq: 5 Nov 2020 17:38

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tot Ion	Ratio	Resp	Lower	Upper
91	100	554440		
92	53.8		45.7	68.5
134	26.8		21.0	31.4

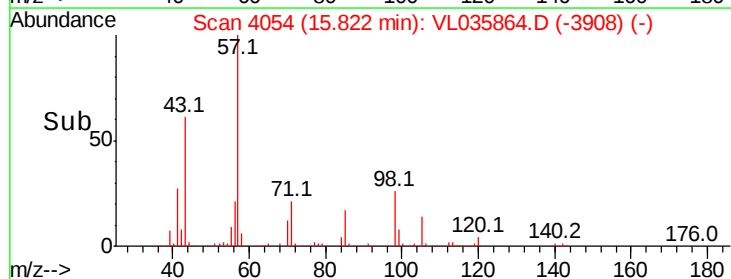
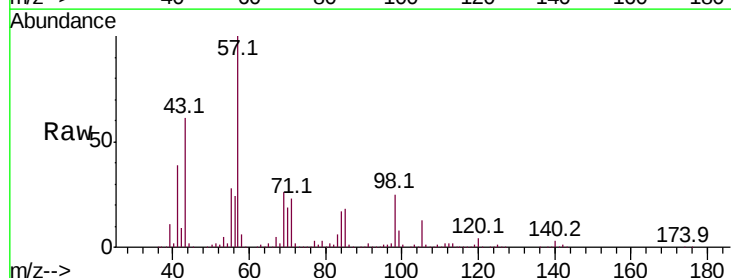
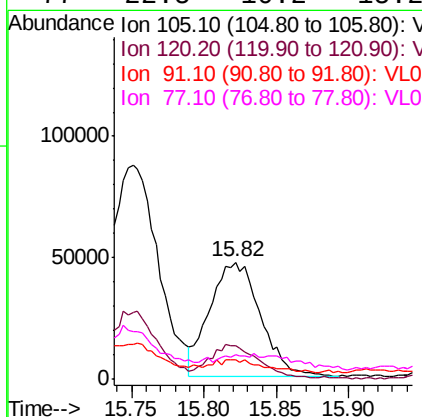
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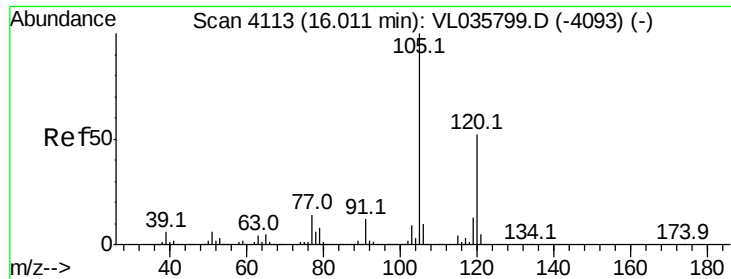
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#72
4-Ethyltoluene
Concen: 0.219 ppbv
RT: 15.82 min Scan# 4054
Delta R.T. -0.03 min
Lab File: VL035864.D
Acq: 5 Nov 2020 17:38

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	115331		
120	29.8		25.9	38.9
91	10.2		9.9	14.9
77	22.5		10.2	15.2#





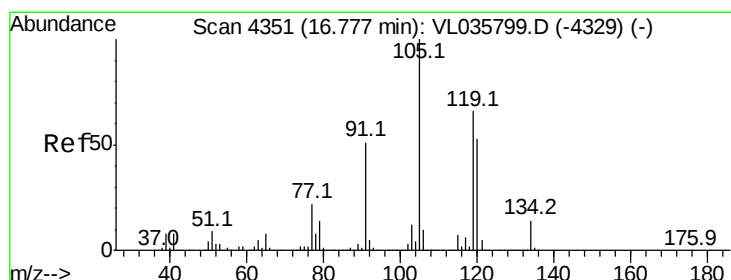
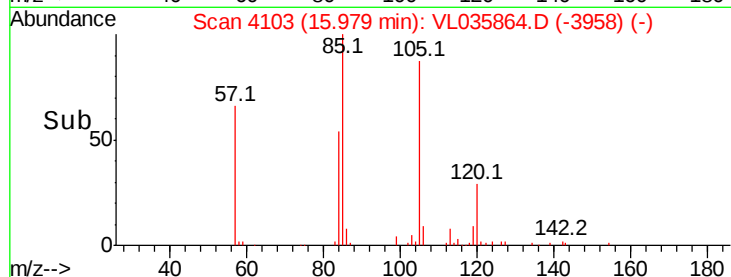
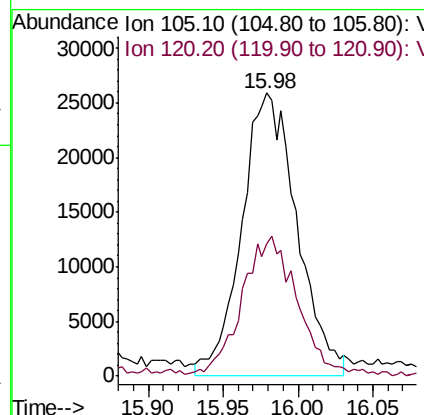
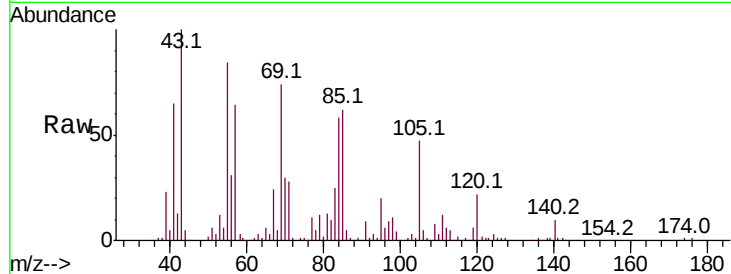
#73
 1,3,5-Trimethylbenzene
 Concen: 0.138 ppbv m
 RT: 15.98 min Scan# 4103
 Delta R.T. -0.03 min
 Lab File: VL035864.D
 Acq: 5 Nov 2020 17:38

Instrument :
 MSVOA_L
 ClientSampled :
 SV2

Tot Ion:105 Resp: 66648
 Ion Ratio Lower Upper
 105 100
 120 47.0 41.4 62.2

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.531 ppbv m
 RT: 16.75 min Scan# 4344
 Delta R.T. -0.02 min
 Lab File: VL035864.D
 Acq: 5 Nov 2020 17:38

Tgt Ion:105 Resp: 273991
 Ion Ratio Lower Upper
 105 100
 120 42.7 42.0 63.0
 91 11.2 41.0 61.6#
 77 16.7 17.3 25.9#

