

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091620\
 Data File : VL035649.D
 Acq On : 17 Sep 2020 4:52
 Operator : SY/AP
 Sample : L4016-01 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-13

Manual Integrations
 APPROVED

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 9/17/2020 1:53:06 PM

Quant Time: Sep 17 09:03:28 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	1324531	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	5301898	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	5212644	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	3925883	10.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.01	41	175292	3.104	ppbv #	61
13) Ethanol	3.61	45	19401	1.386	ppbv	99
15) Acetone	3.84	43	3857792	26.408	ppbv	95
17) tert-Butyl alcohol	4.32	59	30444m	0.171	ppbv	
20) Methylene Chloride	4.34	84	107662	0.990	ppbv	97
26) Hexane	5.69	57	48503	0.332	ppbv #	47
29) Chloroform	5.75	83	574829	1.929	ppbv	100
30) Cyclohexane	7.13	84	31267	0.200	ppbv #	86
31) cis-1,2-Dichloroethene	5.55	61	144435	0.963	ppbv	98
34) 2-Butanone	5.26	43	73549	0.467	ppbv	96
36) Benzene	6.90	78	85247	0.248	ppbv	99
38) Trichloroethene	7.84	130	2059468	10.331	ppbv	95
44) 2,2,4-Trimethylpentane	7.88	57	2872085	6.360	ppbv	97
52) Tetrachloroethene	11.23	164	13346586m	66.568	ppbv	
53) Toluene	9.82	91	453374	1.050	ppbv	97
58) Ethyl Benzene	12.73	91	143057	0.266	ppbv	94
59) m/p-Xylene	12.99	91	465541	1.036	ppbv	96
60) o-Xylene	13.71	91	186253	0.412	ppbv	95
72) 4-Ethyltoluene	15.86	105	97740	0.170	ppbv #	93
73) 1,3,5-Trimethylbenzene	16.01	105	61064	0.115	ppbv	94
74) 1,2,4-Trimethylbenzene	16.78	105	254202	0.435	ppbv #	73

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

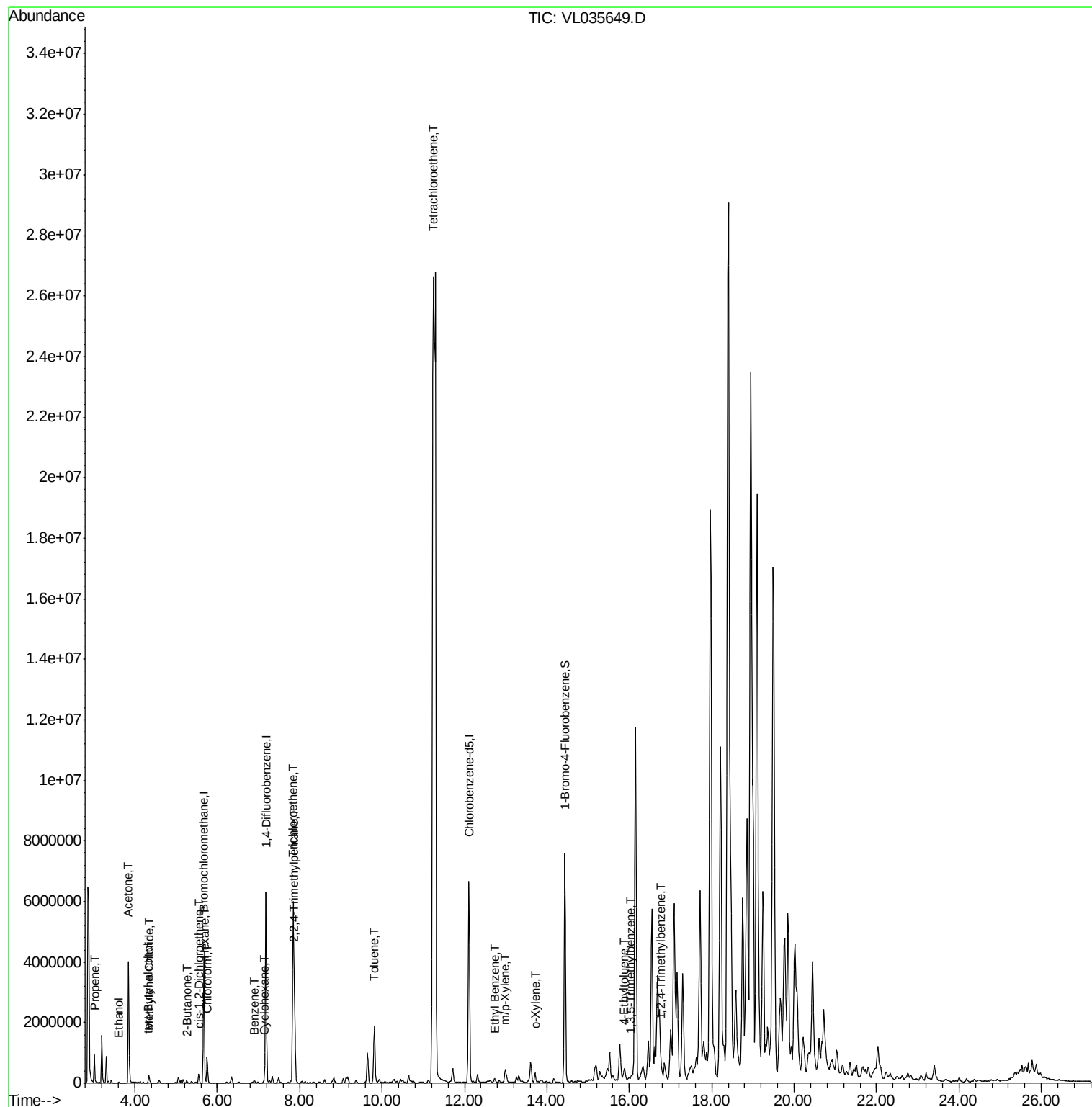
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091620\
Data File : VL035649.D
Acq On : 17 Sep 2020 4:52
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

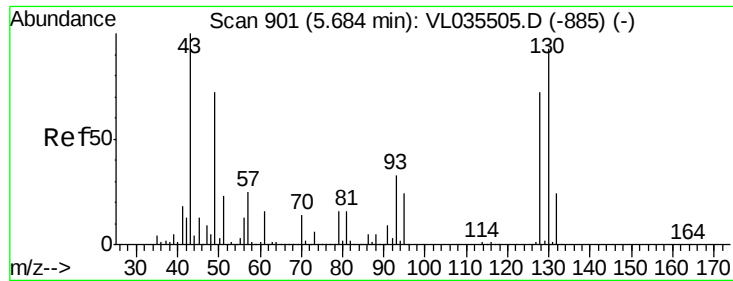
Instrument :
MSVOA_L
ClientSampleId :
SV-13

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Quant Time: Sep 17 09:03:28 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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.00 min

Lab File: VL035649.D

Acq: 17 Sep 2020 4:52

Instrument :

MSVOA_L

ClientSampled :

SV-13

Tot Ion: 49 Resp: 1324531

Ion Ratio Lower Upper

49 100

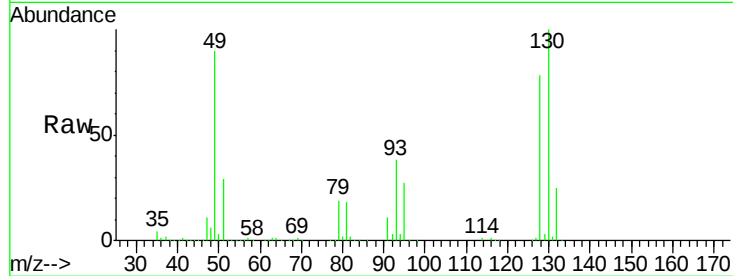
128 89.5 50.0 150.1

130 114.1 64.4 193.2

Manual Integrations
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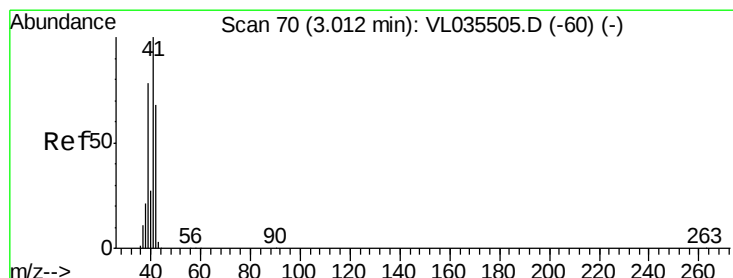
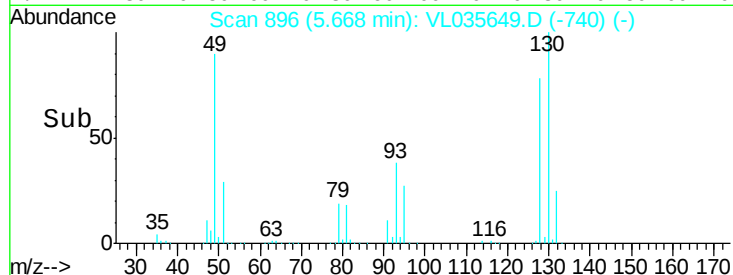
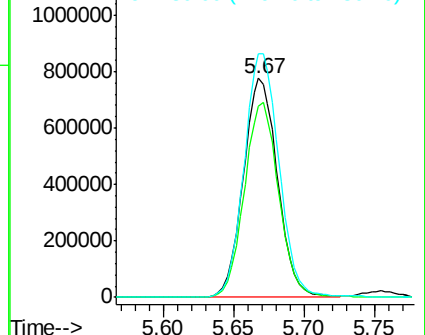
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 3.104 ppbv

RT: 3.01 min Scan# 71

Delta R.T. 0.02 min

Lab File: VL035649.D

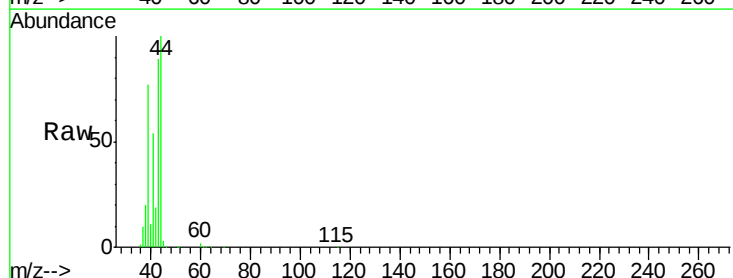
Acq: 17 Sep 2020 4:52

Tgt Ion: 41 Resp: 175292

Ion Ratio Lower Upper

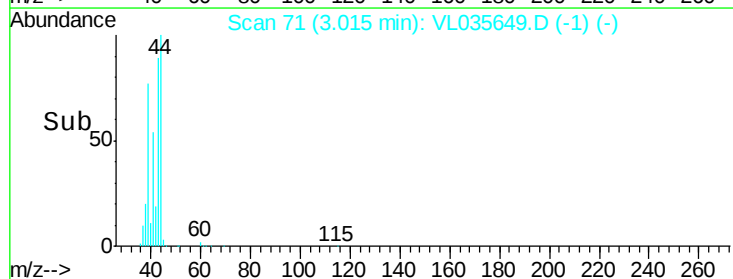
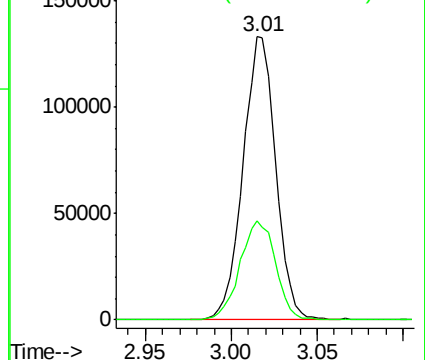
41 100

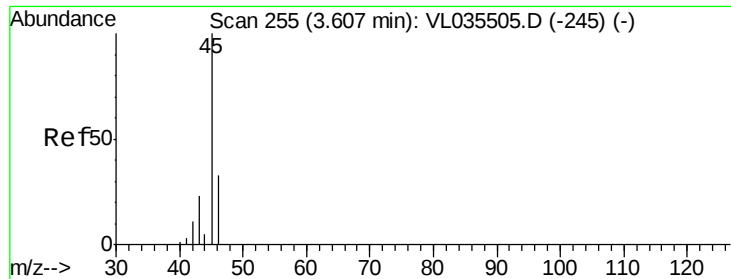
42 38.4 56.3 84.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





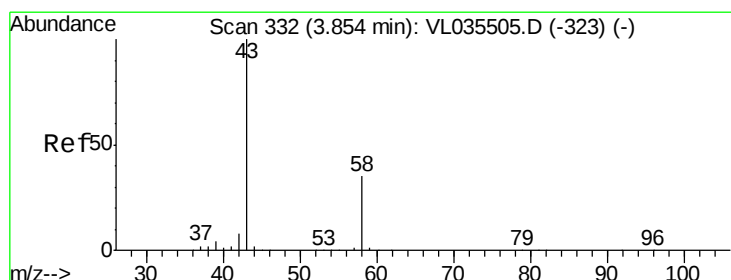
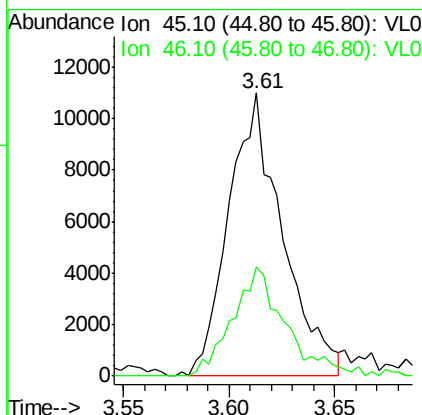
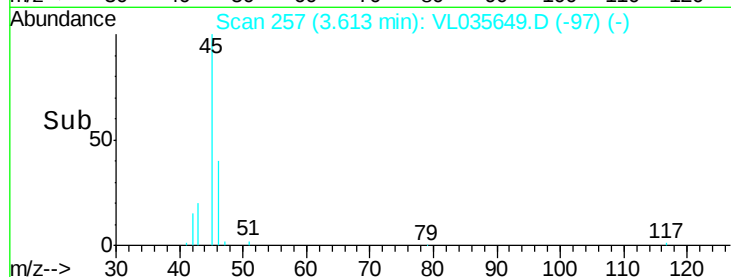
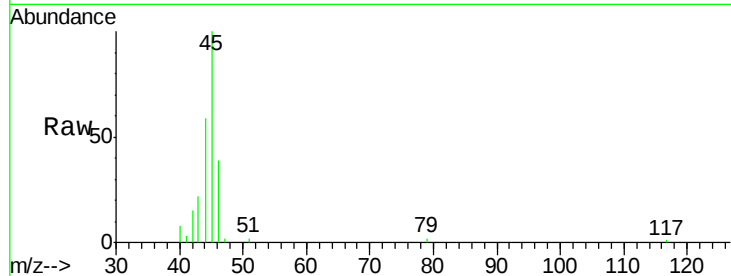
#13
Ethanol
Concen: 1.386 ppbv
RT: 3.61 min Scan# 257
Delta R.T. 0.02 min
Lab File: VL035649.D
Acq: 17 Sep 2020 4:52

Instrument :
MSVOA_L
ClientSampleId :
SV-13

Tot Ion: 45 Resp: 19401
Ion Ratio Lower Upper
45 100
46 38.6 15.2 60.6

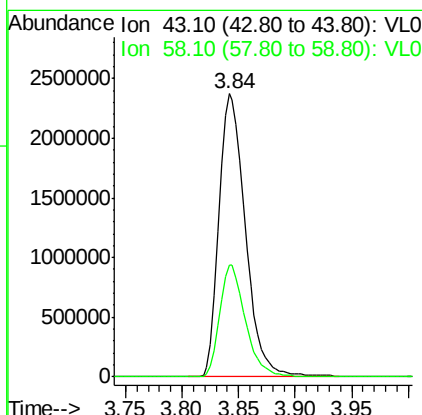
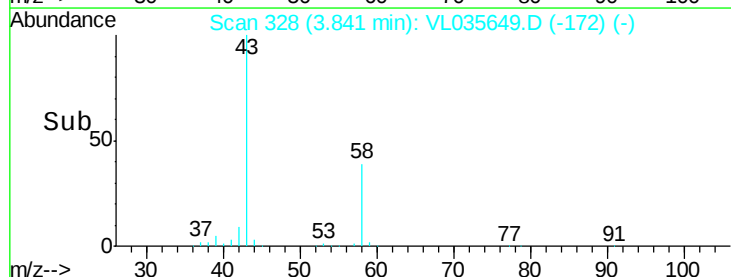
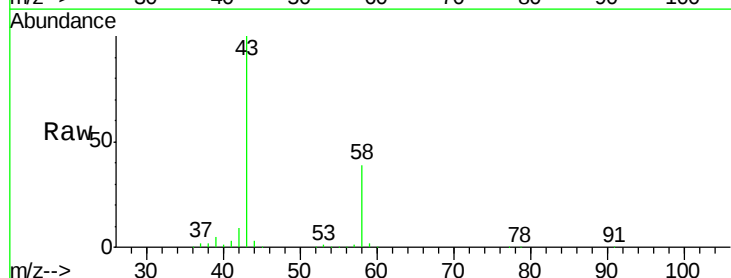
Manual Integrations
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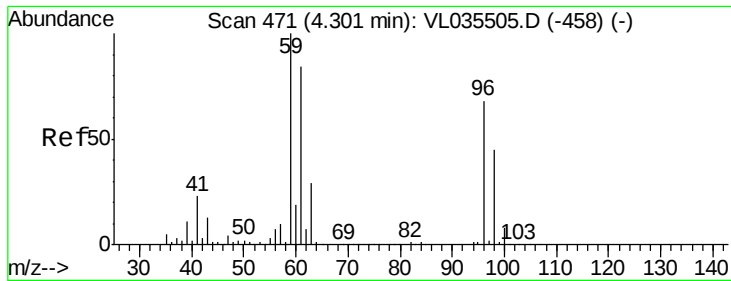
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#15
Acetone
Concen: 26.408 ppbv
RT: 3.84 min Scan# 328
Delta R.T. 0.00 min
Lab File: VL035649.D
Acq: 17 Sep 2020 4:52

Tgt Ion: 43 Resp: 3857792
Ion Ratio Lower Upper
43 100
58 38.7 28.4 42.6





#17

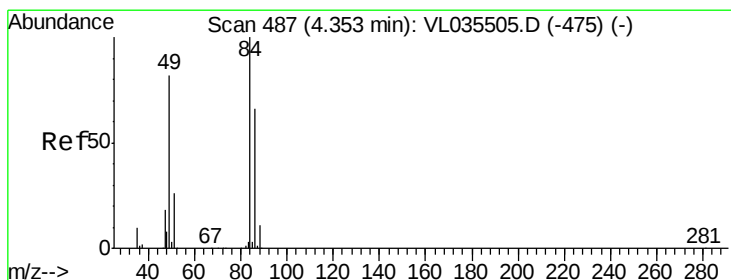
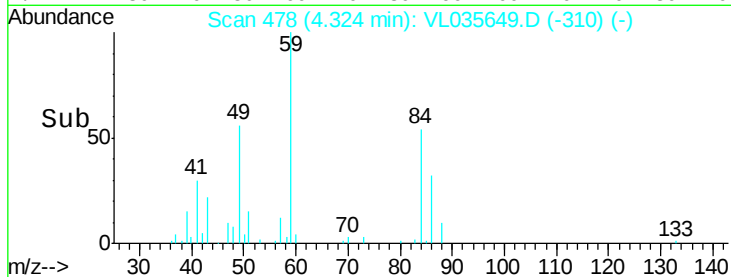
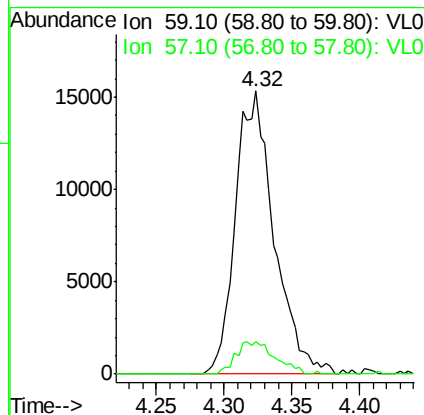
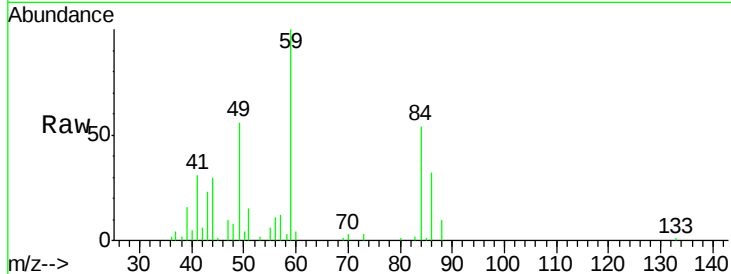
tert-Butyl alcohol
 Concen: 0.171 ppbv
 RT: 4.32 min Scan# 478
 Delta R.T. 0.04 min
 Lab File: VL035649.D
 Acq: 17 Sep 2020 4:52

Instrument :
 MSVOA_L
 ClientSampled :
 SV-13

Tot Ion: 59 Resp: 30444
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

Manual Integrations
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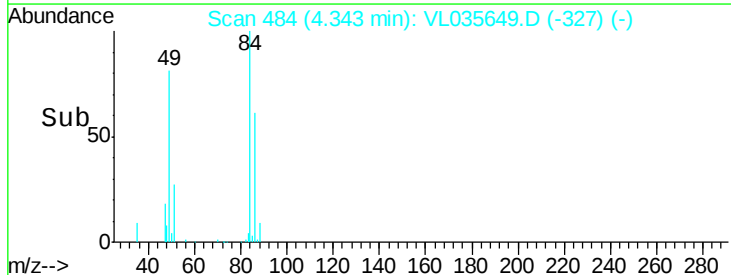
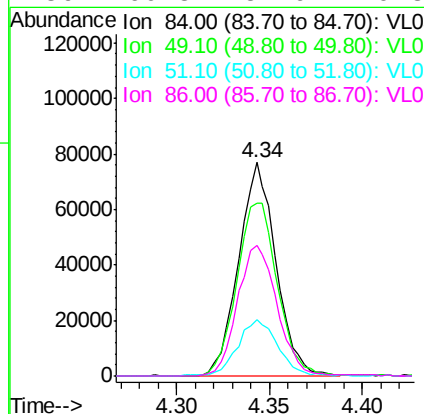
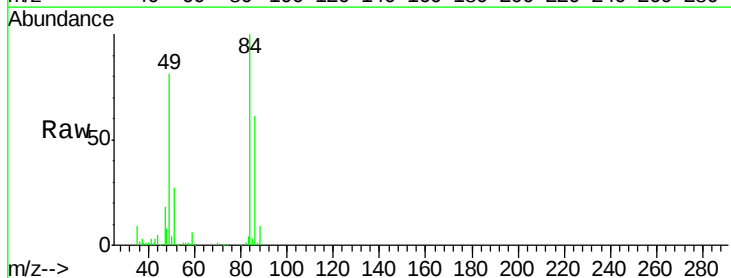
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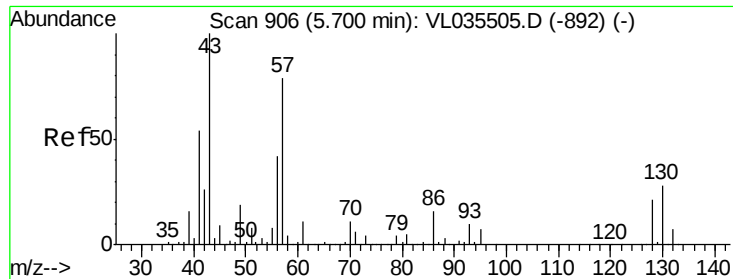


#20

Methylene Chloride
 Concen: 0.990 ppbv
 RT: 4.34 min Scan# 484
 Delta R.T. 0.01 min
 Lab File: VL035649.D
 Acq: 17 Sep 2020 4:52

Tgt Ion: 84 Resp: 107662
 Ion Ratio Lower Upper
 84 100
 49 81.2 65.4 98.0
 51 26.0 21.5 32.3
 86 60.8 52.9 79.3





#26

Hexane

Concen: 0.332 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.01 min

Lab File: VL035649.D

Acq: 17 Sep 2020 4:52

Instrument :

MSVOA_L

ClientSampleId :

SV-13

Tot Ion: 57 Resp: 48503

Ion Ratio Lower Upper

57 100

41 80.6 55.9 83.9

43 64.2 141.8 212.8#

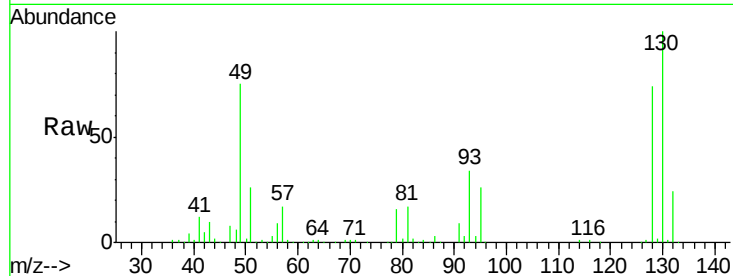
56 61.3 41.8 62.8

Manual Integrations

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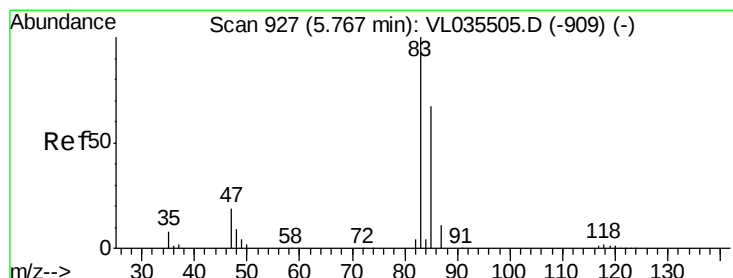
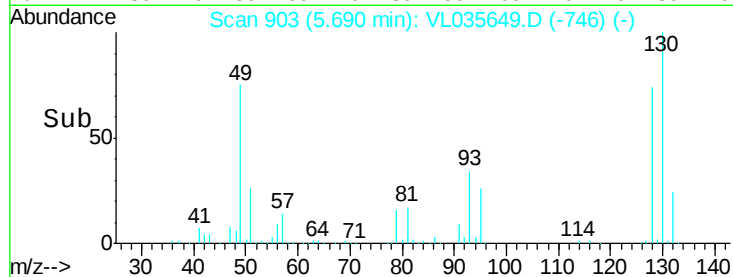
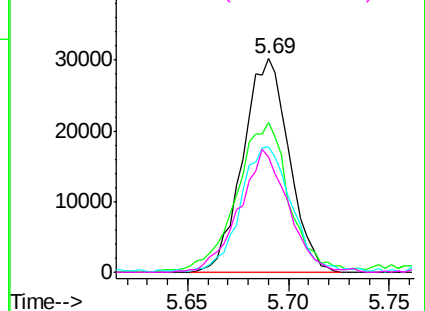


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29

Chloroform

Concen: 1.929 ppbv

RT: 5.75 min Scan# 923

Delta R.T. 0.01 min

Lab File: VL035649.D

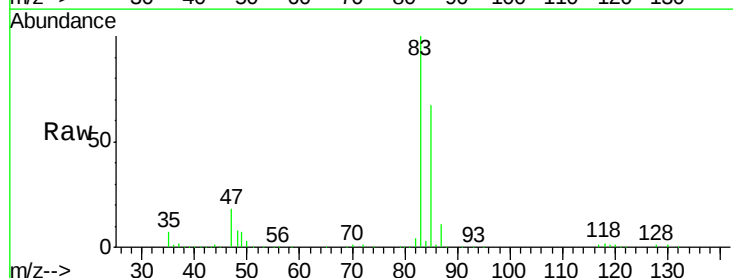
Acq: 17 Sep 2020 4:52

Tgt Ion: 83 Resp: 574829

Ion Ratio Lower Upper

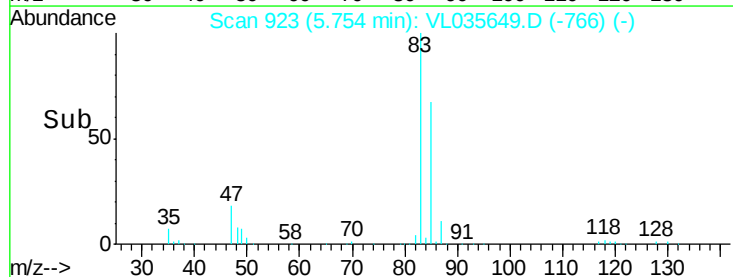
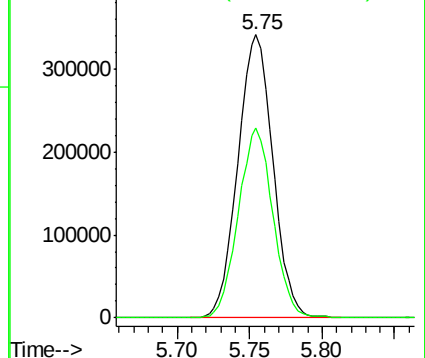
83 100

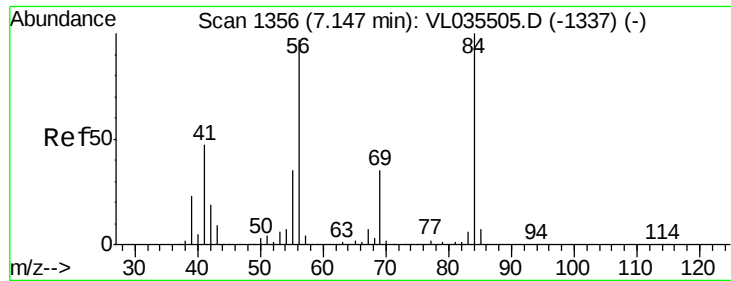
85 67.0 53.9 80.9



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





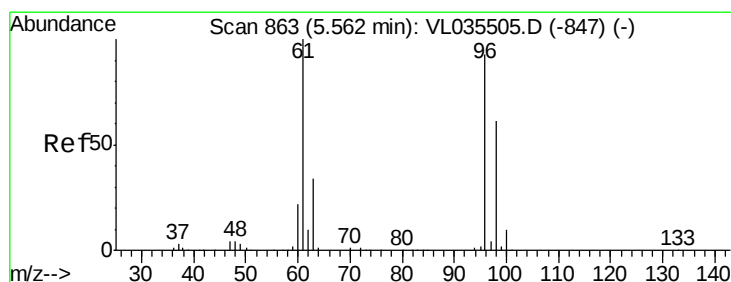
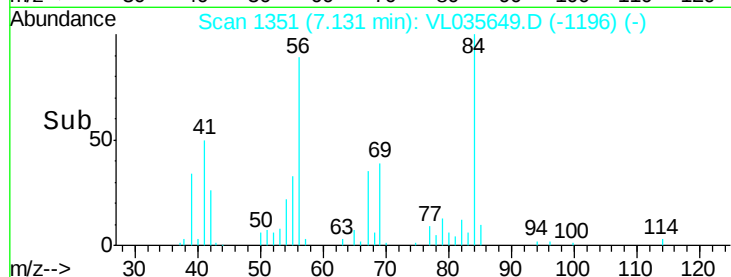
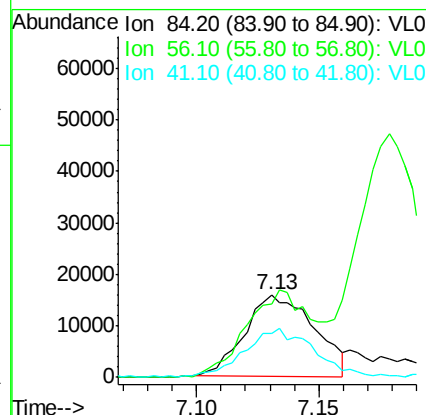
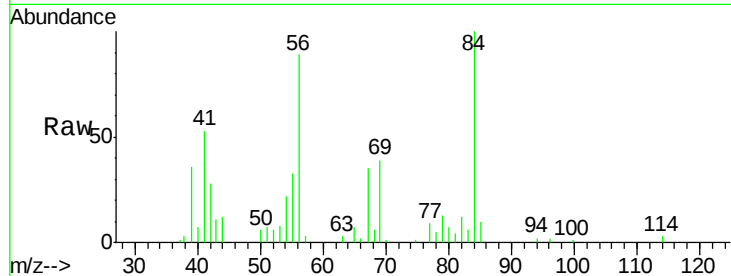
#30
Cvclohexane
Concen: 0.200 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.00 min
Lab File: VL035649.D
Acq: 17 Sep 2020 4:52

Instrument :
MSVOA_L
ClientSampled :
SV-13

Tot Ion	Ratio	Lower	Upper
84	100		
56	89.6	80.1	120.1
41	61.7	38.1	57.1

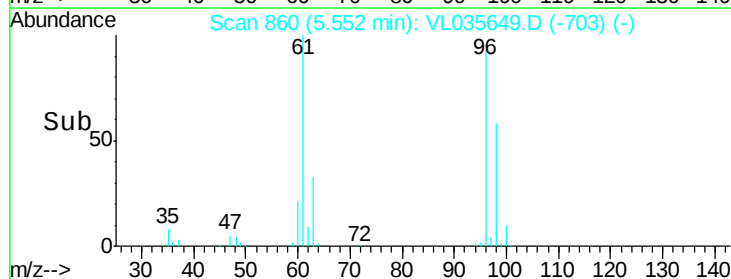
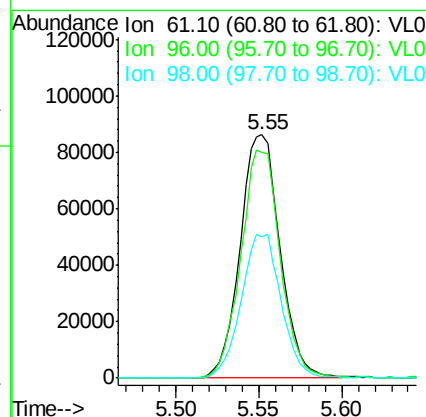
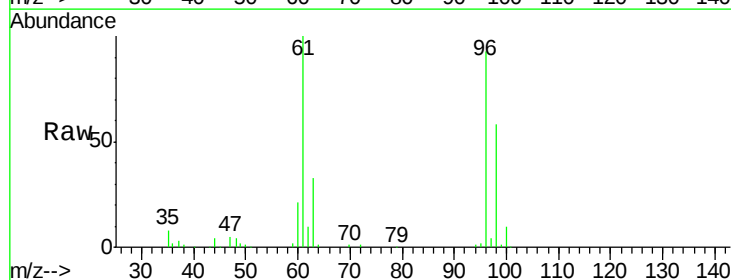
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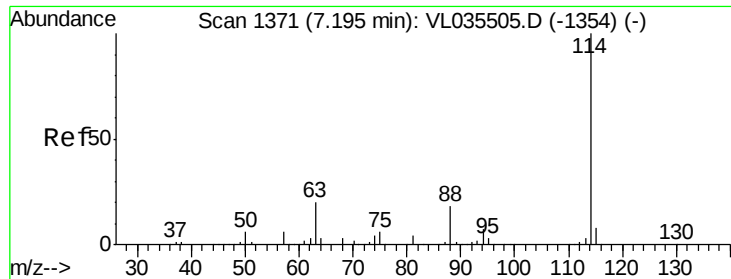
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#31
cis-1,2-Dichloroethene
Concen: 0.963 ppbv
RT: 5.55 min Scan# 860
Delta R.T. 0.01 min
Lab File: VL035649.D
Acq: 17 Sep 2020 4:52

Tgt Ion	Ratio	Lower	Upper
61	100		
96	92.5	74.4	111.6
98	58.1	49.2	73.8





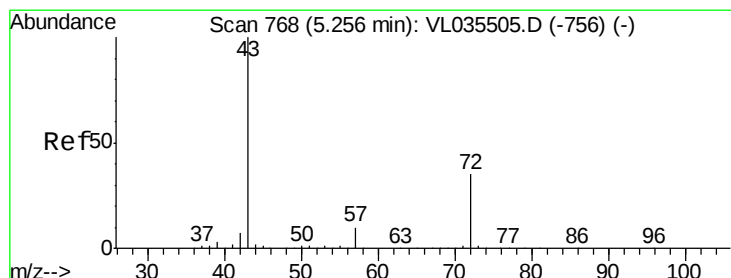
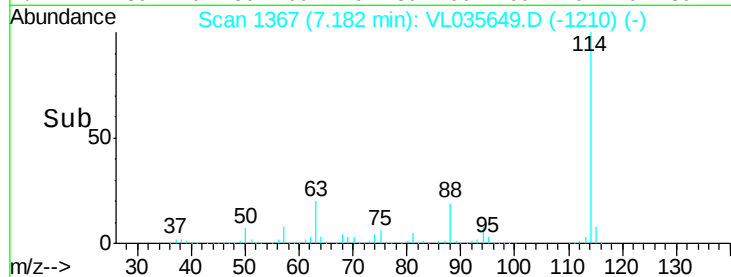
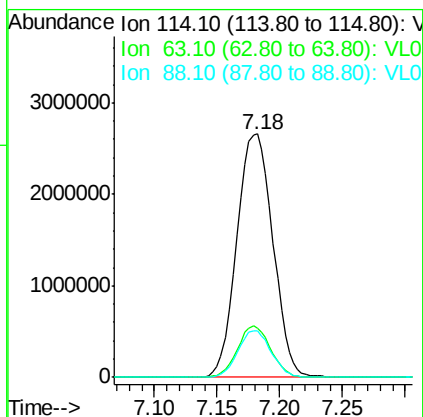
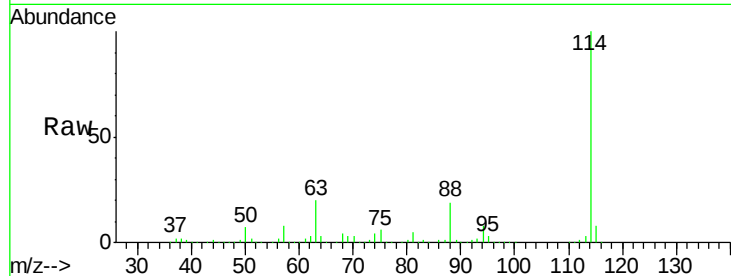
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. 0.01 min
 Lab File: VL035649.D
 Acq: 17 Sep 2020 4:52

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-13

Tot Ion:114 Resp: 5301898
 Ion Ratio Lower Upper
 114 100
 63 19.5 14.7 22.1
 88 17.8 13.4 20.2

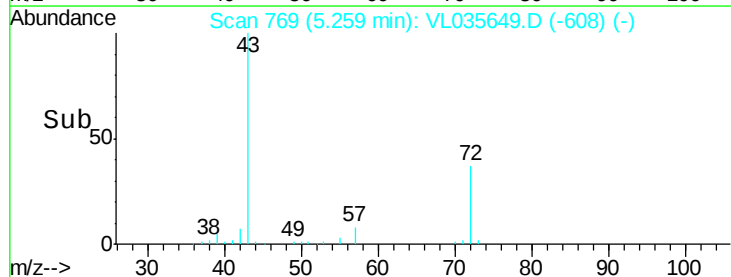
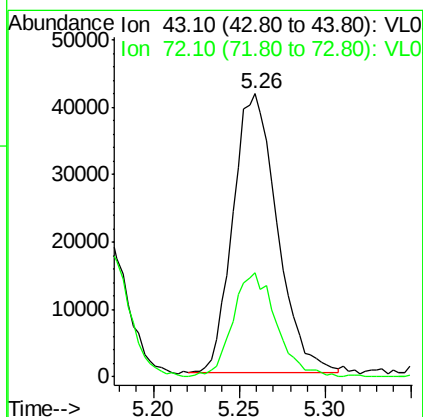
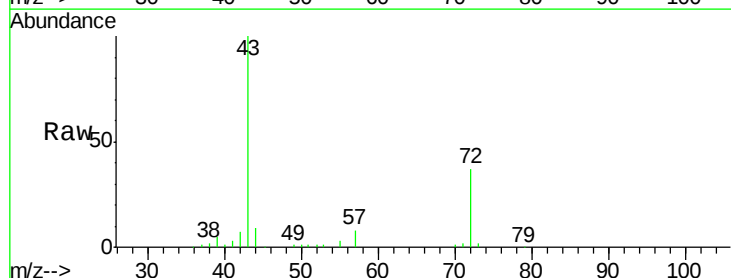
Manual Integrations
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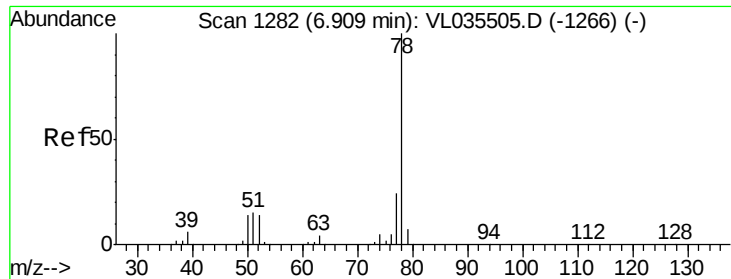
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#34
 2-Butanone
 Concen: 0.467 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. 0.02 min
 Lab File: VL035649.D
 Acq: 17 Sep 2020 4:52

Tgt Ion: 43 Resp: 73549
 Ion Ratio Lower Upper
 43 100
 72 37.1 27.7 41.5





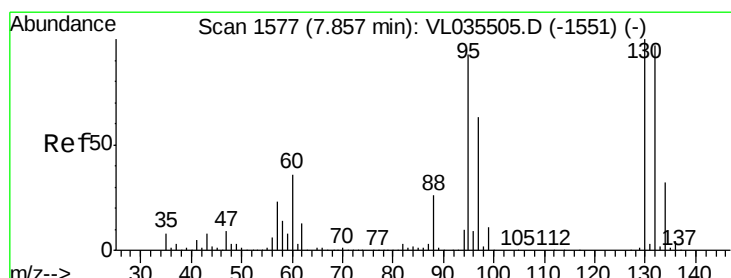
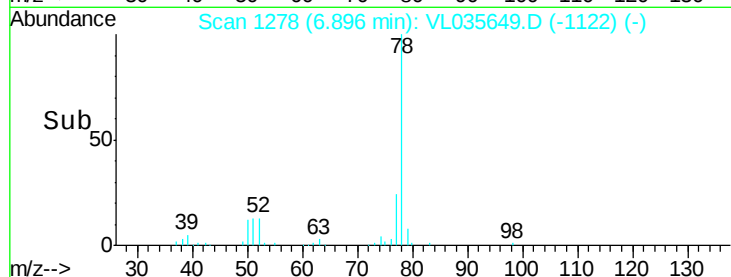
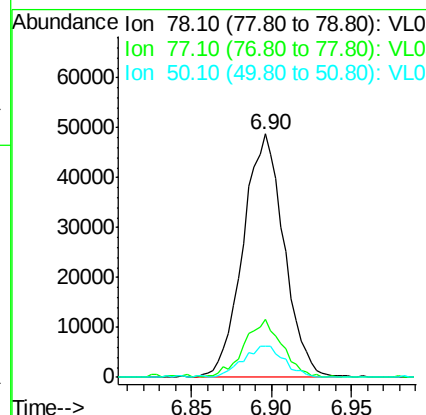
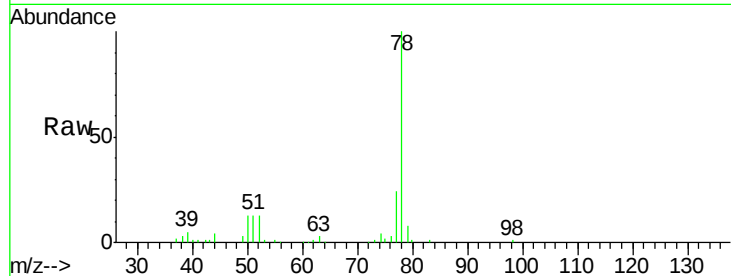
#36
Benzene
Concen: 0.248 ppbv
RT: 6.90 min Scan# 1278
Delta R.T. 0.00 min
Lab File: VL035649.D
Acq: 17 Sep 2020 4:52

Instrument :
MSVOA_L
ClientSampleId :
SV-13

Tot Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.3	28.9
50	12.6	11.0	16.6

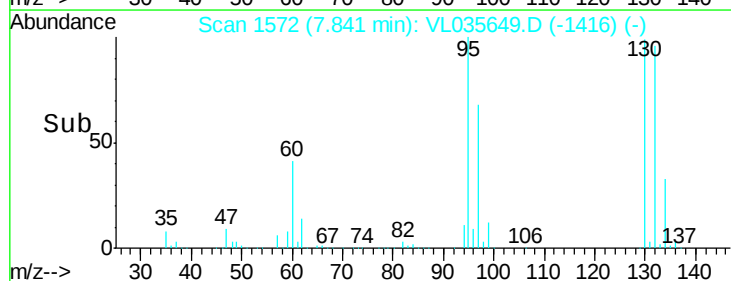
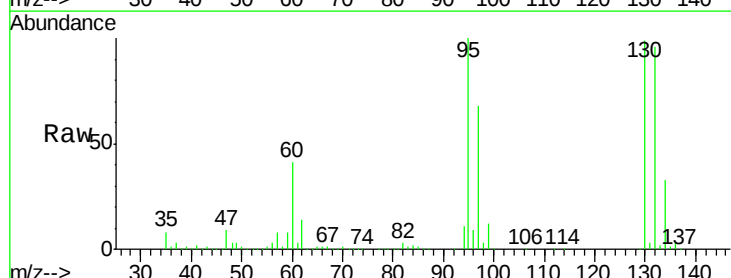
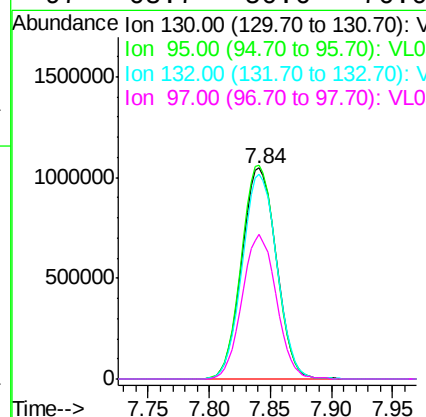
Manual Integrations
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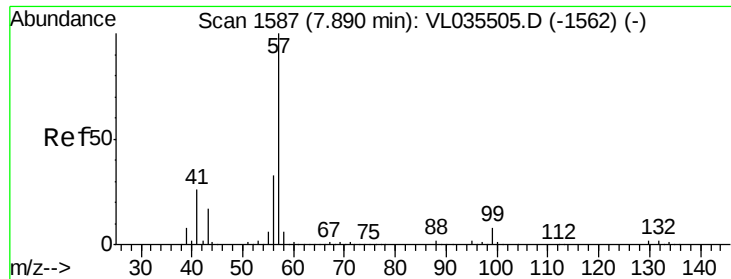
MMDadoda
9/17/2020 1:53:06 PM



#38
Trichloroethene
Concen: 10.331 ppbv
RT: 7.84 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VL035649.D
Acq: 17 Sep 2020 4:52

Tgt Ion	Ratio	Lower	Upper
130	100		
95	101.1	74.6	112.0
132	97.3	77.6	116.4
97	68.7	50.6	76.0





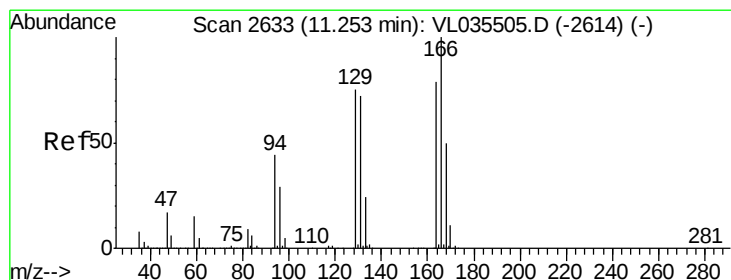
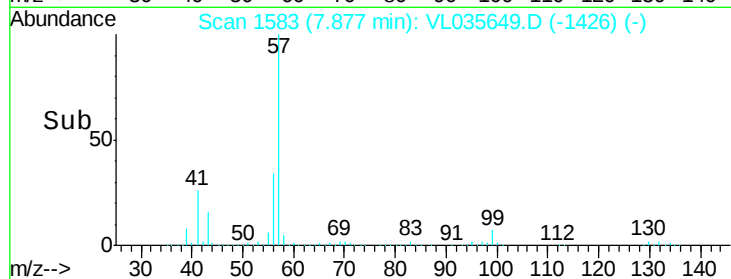
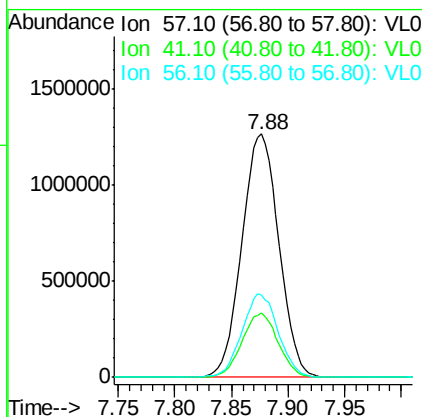
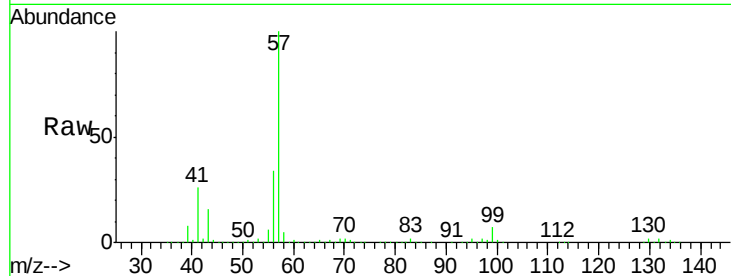
#44
2,2,4-Trimethylpentane
Concen: 6.360 ppbv
RT: 7.88 min Scan# 1583
Delta R.T. 0.01 min
Lab File: VL035649.D
Acq: 17 Sep 2020 4:52

Instrument :
MSVOA_L
ClientSampleId :
SV-13

Tot Ion: 57 Resp: 2872085
Ion Ratio Lower Upper
57 100
41 26.0 20.5 30.7
56 33.9 25.3 37.9

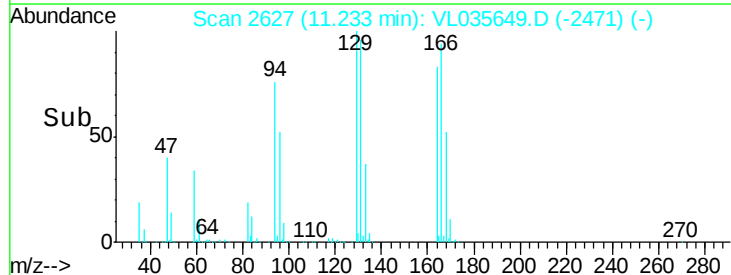
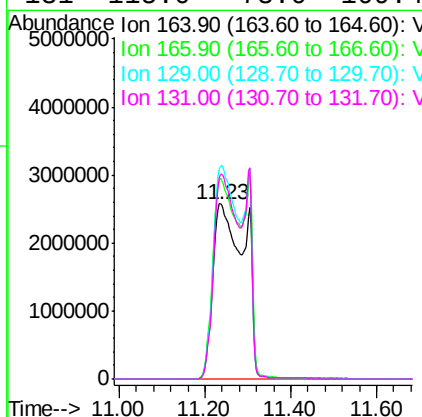
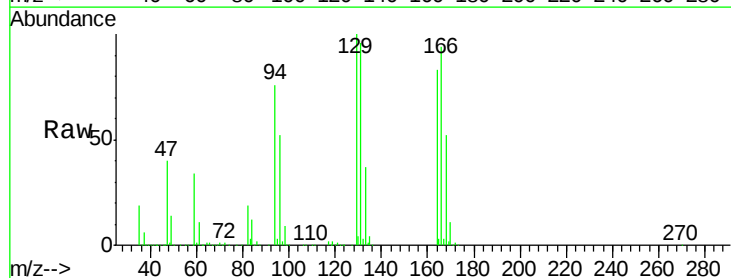
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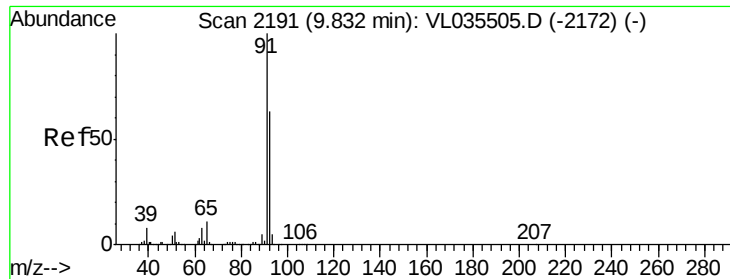
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#52
Tetrachloroethene
Concen: 66.568 ppbv m
RT: 11.23 min Scan# 2627
Delta R.T. 0.00 min
Lab File: VL035649.D
Acq: 17 Sep 2020 4:52

Tgt Ion:164 Resp:13346586
Ion Ratio Lower Upper
164 100
166 113.2 100.9 151.3
129 119.9 75.3 112.9#
131 115.0 73.0 109.4#





#53

Toluene

Concen: 1.050 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VL035649.D

Acq: 17 Sep 2020 4:52

Instrument :

MSVOA_L

ClientSampled :

SV-13

Tot Ion: 91 Resp: 453374

Ion Ratio Lower Upper

91 100

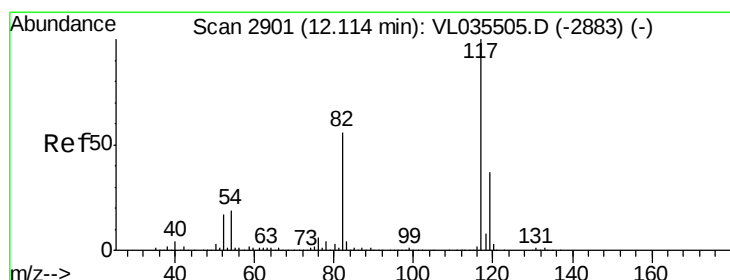
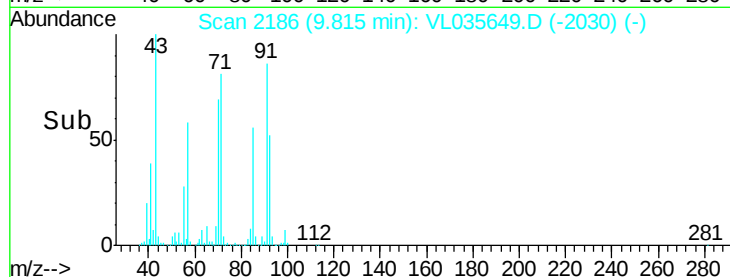
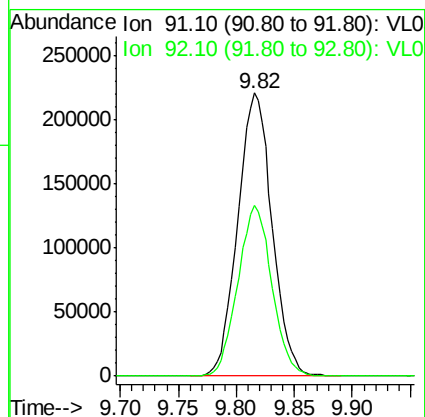
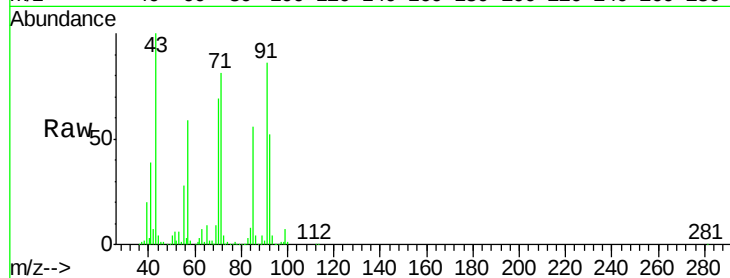
92 59.9 49.8 74.8

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. 0.01 min

Lab File: VL035649.D

Acq: 17 Sep 2020 4:52

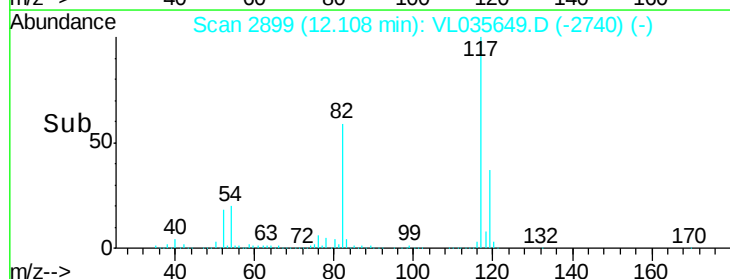
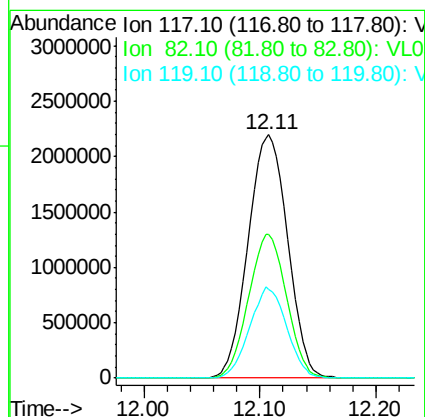
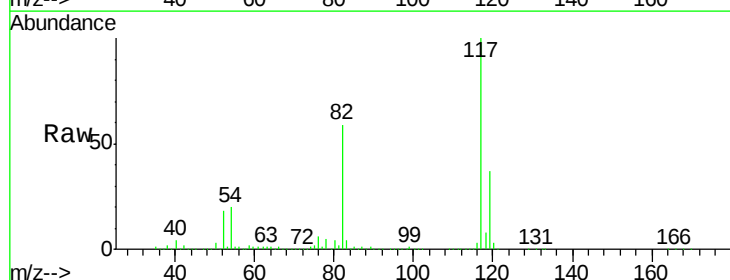
Tgt Ion: 117 Resp: 5212644

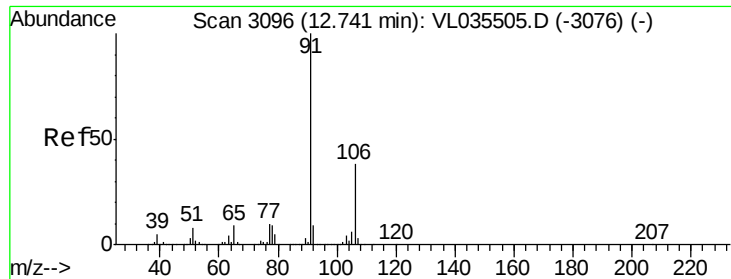
Ion Ratio Lower Upper

117 100

82 56.8 41.6 62.4

119 35.2 29.3 43.9





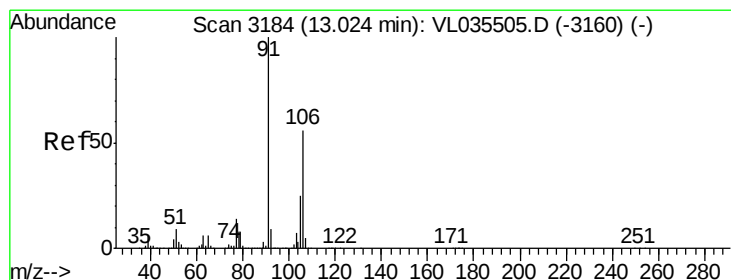
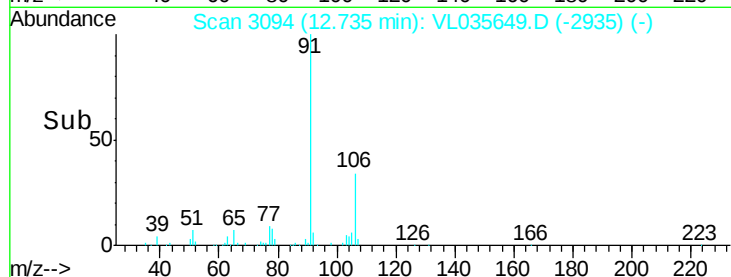
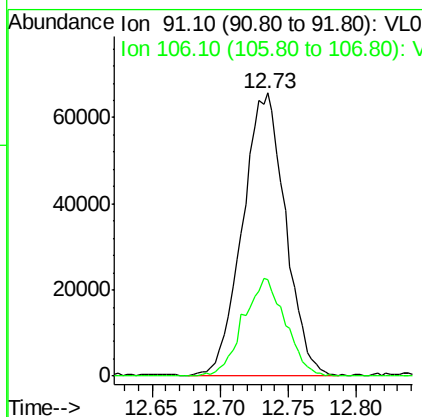
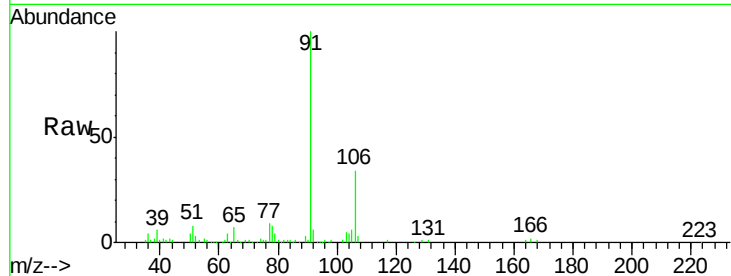
#58
Ethyl Benzene
Concen: 0.266 ppbv
RT: 12.73 min Scan# 3094
Delta R.T. 0.01 min
Lab File: VL035649.D
Acq: 17 Sep 2020 4:52

Instrument :
MSVOA_L
ClientSampleId :
SV-13

Tot Ion	Ratio	Lower	Upper
91	100		
106	34.0	30.3	45.5

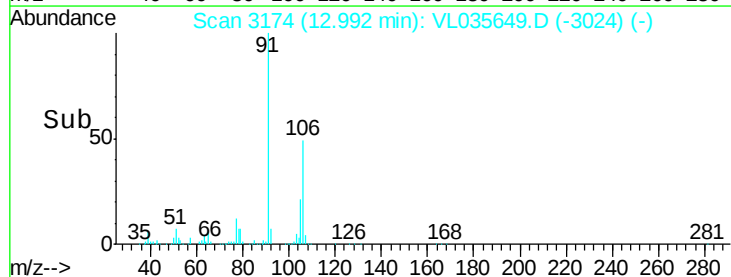
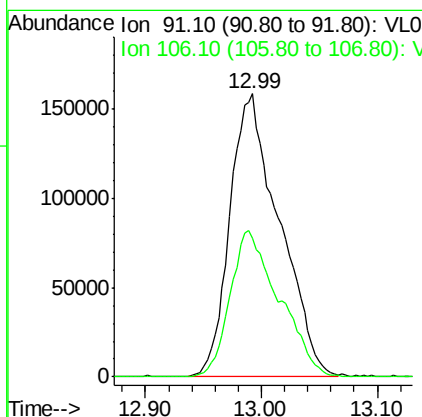
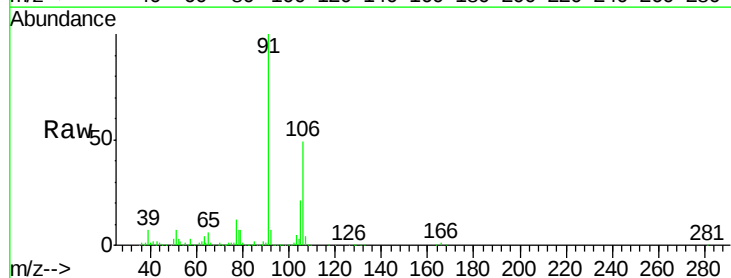
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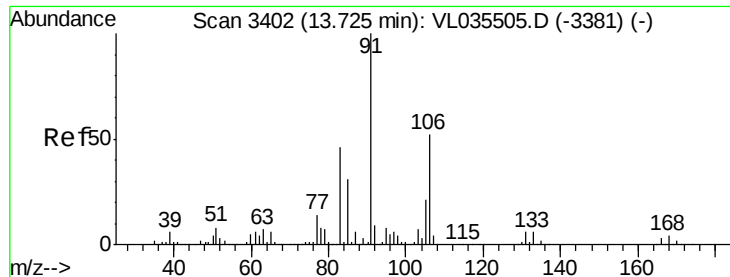
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#59
m/p-Xylene
Concen: 1.036 ppbv
RT: 12.99 min Scan# 3174
Delta R.T. -0.02 min
Lab File: VL035649.D
Acq: 17 Sep 2020 4:52

Tgt Ion	Ratio	Lower	Upper
91	100		
106	51.5	43.4	65.2





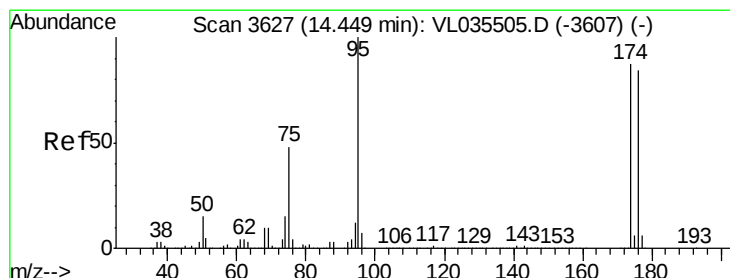
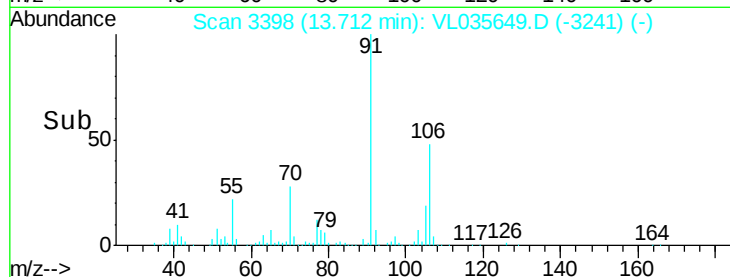
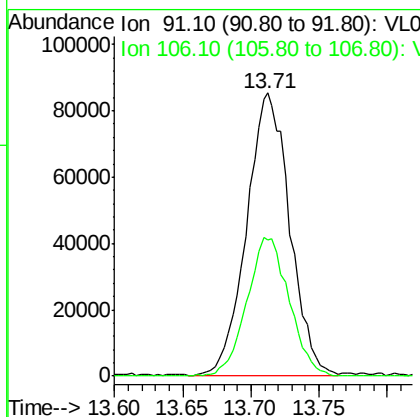
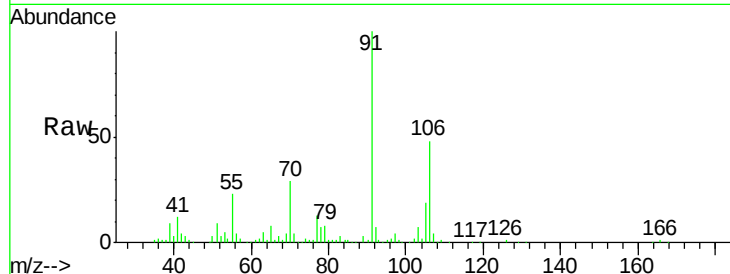
#60
o-Xylene
Concen: 0.412 ppbv
RT: 13.71 min Scan# 3398
Delta R.T. 0.01 min
Lab File: VL035649.D
Acq: 17 Sep 2020 4:52

Instrument :
MSVOA_L
ClientSampled :
SV-13

Tot Ion: 91 Resp: 186253
Ion Ratio Lower Upper
91 100
106 48.3 25.8 77.4

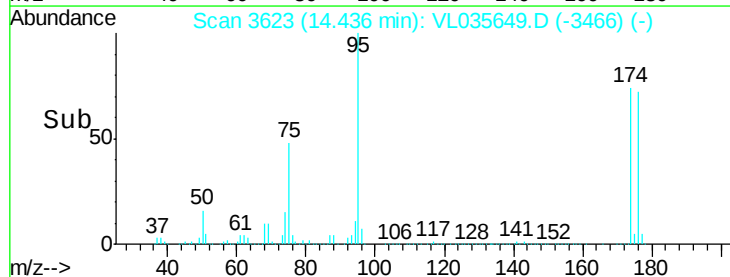
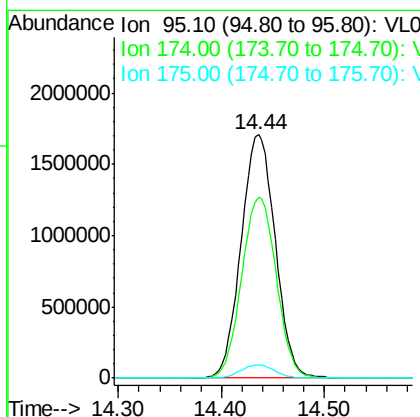
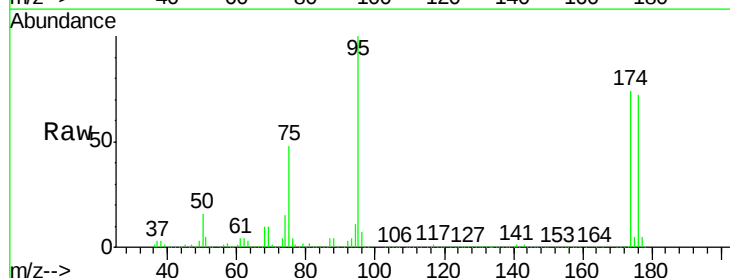
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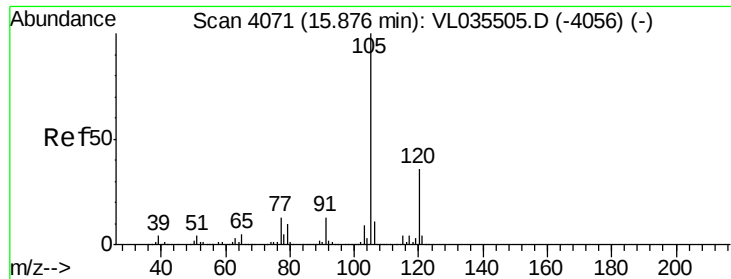
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.605 ppbv
RT: 14.44 min Scan# 3623
Delta R.T. 0.01 min
Lab File: VL035649.D
Acq: 17 Sep 2020 4:52

Tgt Ion: 95 Resp: 3925883
Ion Ratio Lower Upper
95 100
174 75.8 69.6 104.4
175 5.5 5.1 7.7





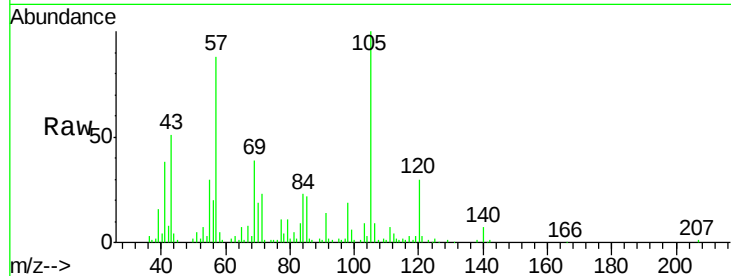
#72
4-Ethyltoluene
Concen: 0.170 ppbv
RT: 15.86 min Scan# 4065
Delta R.T. 0.00 min
Lab File: VL035649.D
Acq: 17 Sep 2020 4:52

Instrument :
MSVOA_L
ClientSampled :
SV-13

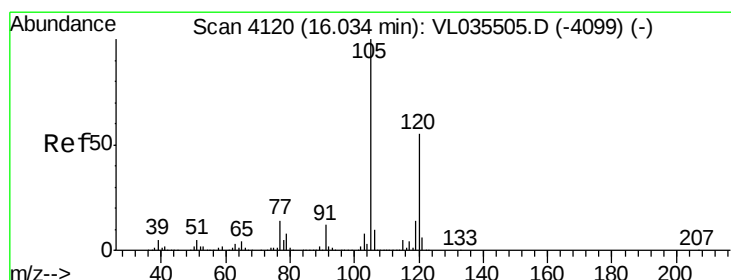
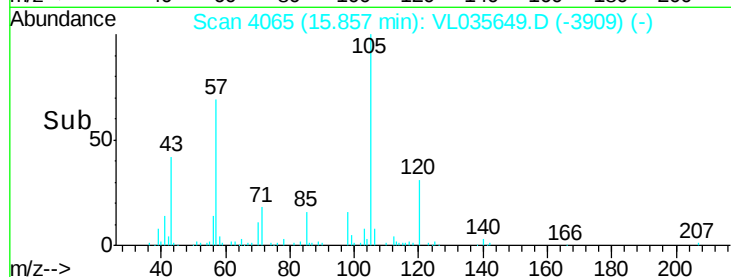
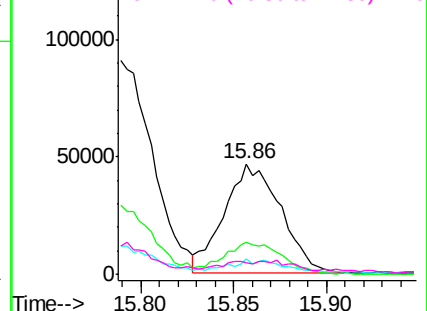
Tot Ion	Ratio	Resp	Lower	Upper
105	100	97740		
120	29.7		27.4	41.2
91	11.8		9.7	14.5
77	16.5		9.6	14.4

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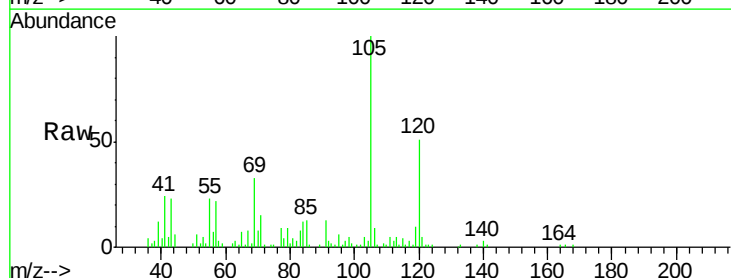


Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 77.10 (76.80 to 77.80): VL0

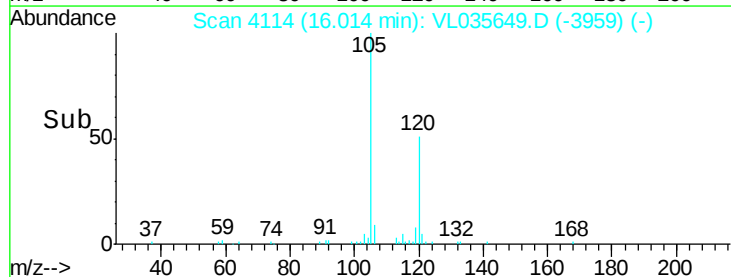
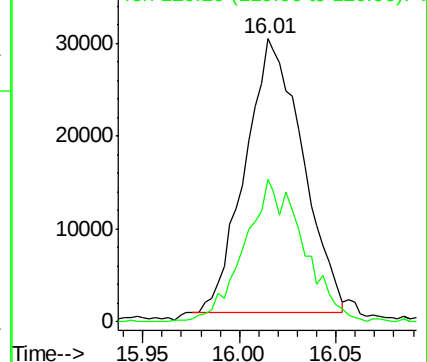


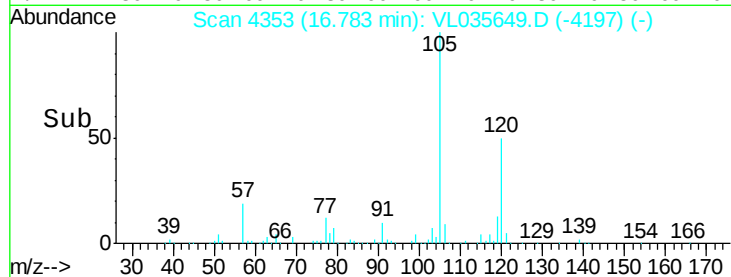
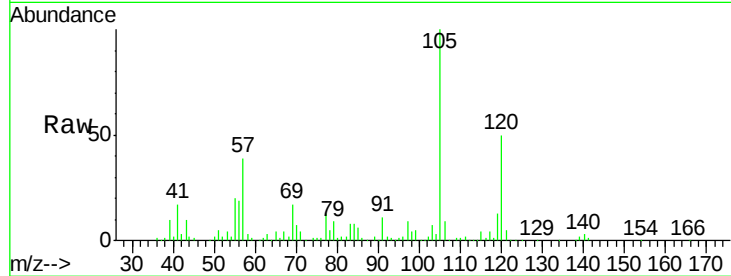
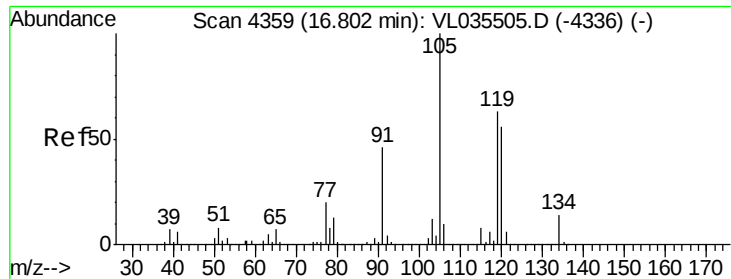
#73
1,3,5-Trimethylbenzene
Concen: 0.115 ppbv
RT: 16.01 min Scan# 4114
Delta R.T. -0.00 min
Lab File: VL035649.D
Acq: 17 Sep 2020 4:52

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	61064		
120	50.9		44.2	66.2



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





#74
 1,2,4-Trimethylbenzene
 Concen: 0.435 ppbv
 RT: 16.78 min Scan# 4353
 Delta R.T. 0.00 min
 Lab File: VL035649.D
 Acq: 17 Sep 2020 4:52

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-13

Tot Ion	Ion	Ratio	Resp Lower	Resp Upper
105	105	100		
120	120	50.3	44.4	66.6
91	91	10.5	37.1	55.7
77	77	11.7	16.0	24.0

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