

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091420\
 Data File : VL035606.D
 Acq On : 14 Sep 2020 19:46
 Operator : SY/AP
 Sample : L3983-03 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-9

Manual Integrations
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Quant Time: Sep 15 07:29:55 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	5.66	49	1029694	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4392504	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4466767	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3404080	10.73	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	22463m	0.197	ppbv	
9) Propene	3.00	41	34488	0.786	ppbv	89
10) Heptane	8.12	43	25118	0.213	ppbv	91
13) Ethanol	3.60	45	45107	4.144	ppbv	94
15) Acetone	3.83	43	5112151	45.015	ppbv	89
17) tert-Butyl alcohol	4.29	59	117561	0.850	ppbv	99
19) Isopropyl Alcohol	3.96	45	35035	0.517	ppbv #	93
20) Methylene Chloride	4.34	84	107594	1.272	ppbv	94
26) Hexane	5.68	57	59063	0.520	ppbv #	43
34) 2-Butanone	5.24	43	519658	3.986	ppbv	99
36) Benzene	6.89	78	48885	0.172	ppbv	95
38) Trichloroethene	7.83	130	24835	0.150	ppbv	93
50) 4-Methyl-2-Pentanone	8.74	43	790078	4.186	ppbv	100
51) 2-Hexanone	10.14	43	169828	1.097	ppbv #	99
52) Tetrachloroethene	11.22	164	753946	4.539	ppbv	99
53) Toluene	9.81	91	2367987	6.623	ppbv	99
58) Ethyl Benzene	12.71	91	155699	0.338	ppbv #	87
59) m/p-Xylene	12.97	91	536799	1.395	ppbv	96
60) o-Xylene	13.70	91	197414	0.509	ppbv	97
64) n-propylbenzene	15.56	120	21460m	0.113	ppbv	
72) 4-Ethyltoluene	15.85	105	111106	0.225	ppbv	97
73) 1,3,5-Trimethylbenzene	16.00	105	70499	0.155	ppbv	92
74) 1,2,4-Trimethylbenzene	16.77	105	307291	0.614	ppbv #	70

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

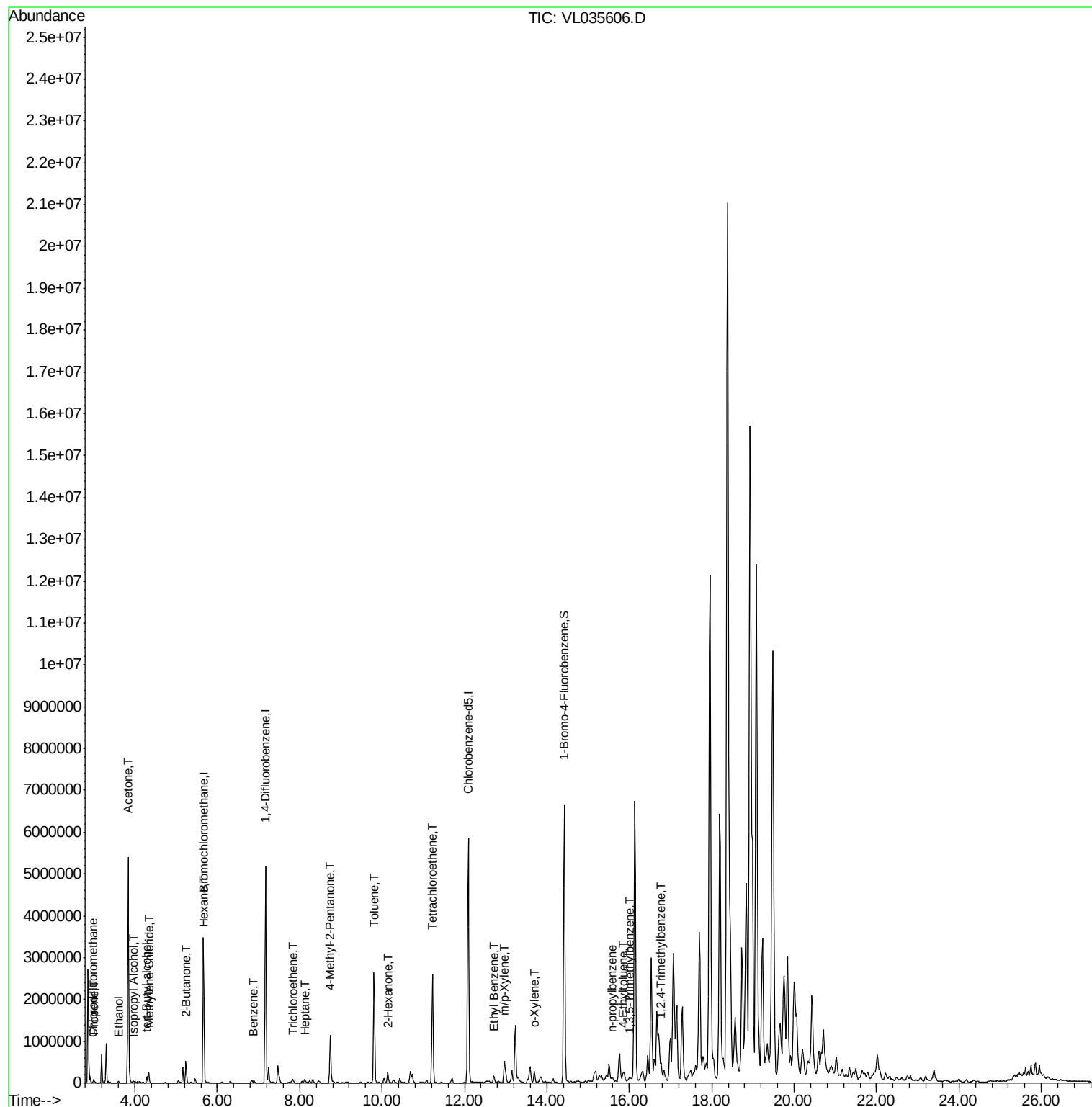
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091420\
Data File : VL035606.D
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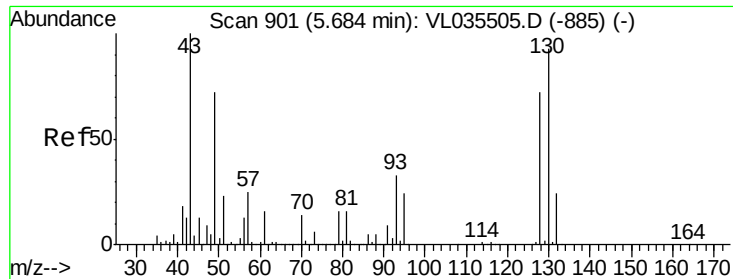
Instrument :
MSVOA_L
ClientSampleId :
SV-9

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Quant Time: Sep 15 07:29:55 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: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL035606.D

Acq: 14 Sep 2020 19:46

Instrument :

MSVOA_L

ClientSampled :

SV-9

Tot Ion: 49 Resp: 1029694

Ion Ratio Lower Upper

49 100

128 95.1 50.0 150.1

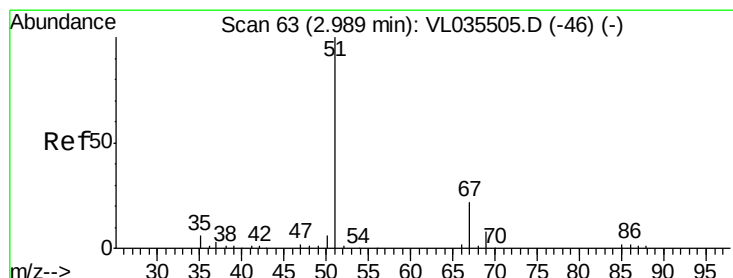
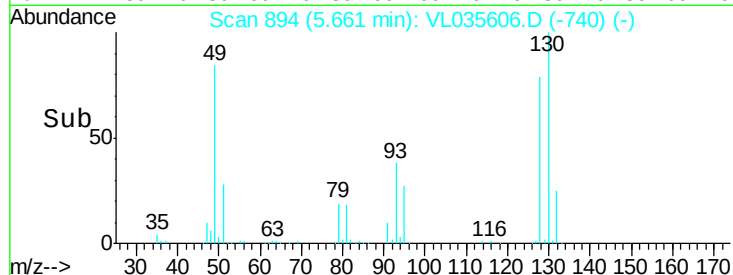
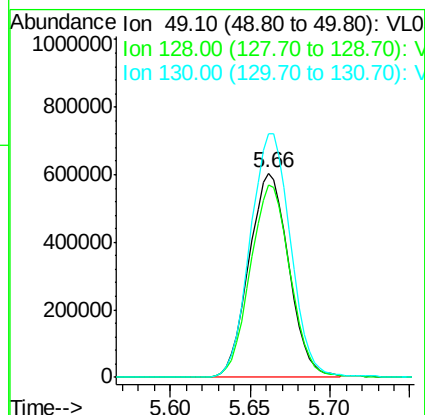
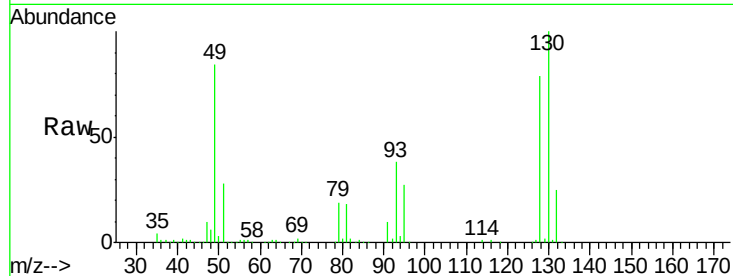
130 122.1 64.4 193.2

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#3

Chlorodifluoromethane

Concen: 0.197 ppbv m

RT: 2.98 min Scan# 59

Delta R.T. 0.00 min

Lab File: VL035606.D

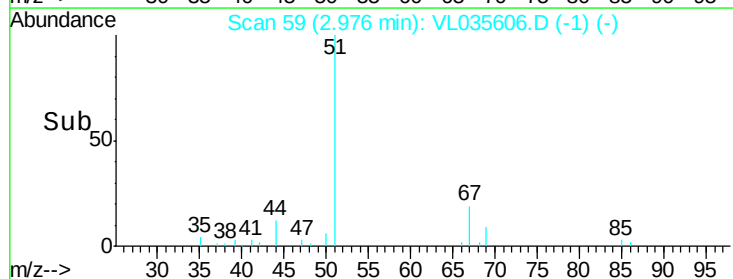
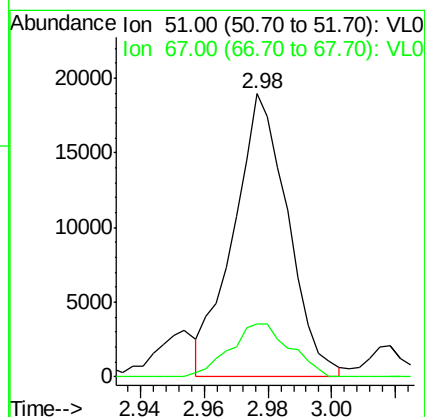
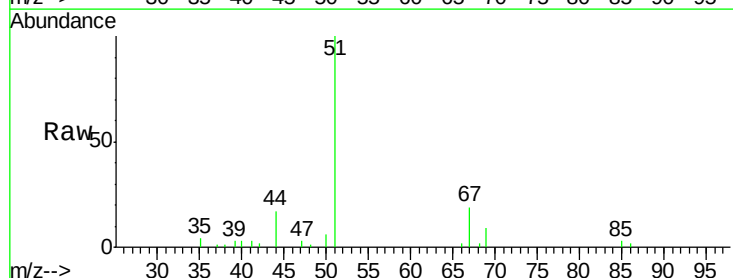
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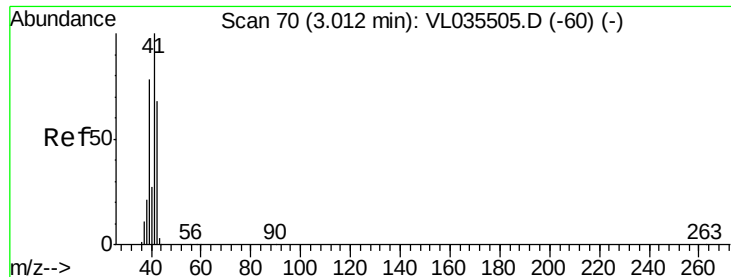
Tgt Ion: 51 Resp: 22463

Ion Ratio Lower Upper

51 100

67 20.7 17.8 26.8





#9

Propene

Concen: 0.786 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.01 min

Lab File: VL035606.D

Acq: 14 Sep 2020 19:46

Instrument :

MSVOA_L

ClientSampled :

SV-9

Tot Ion: 41 Resp: 34488

Ion Ratio Lower Upper

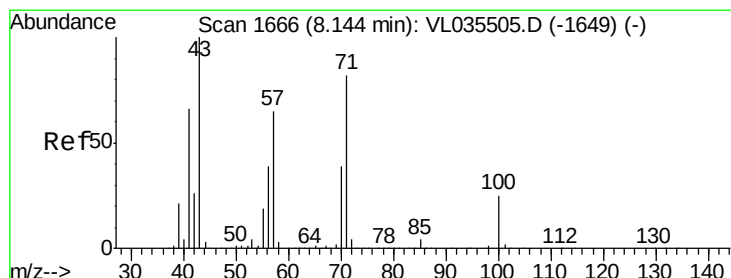
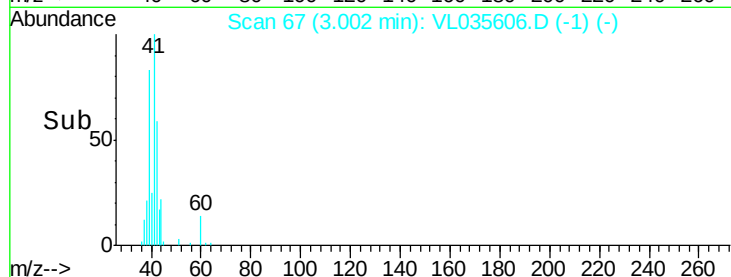
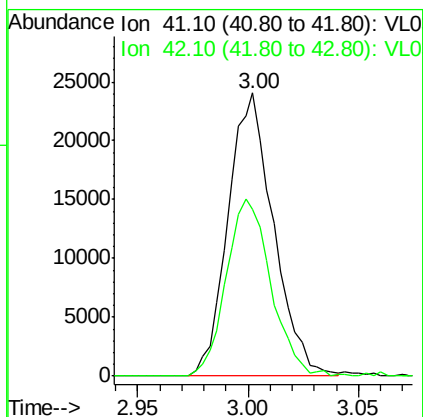
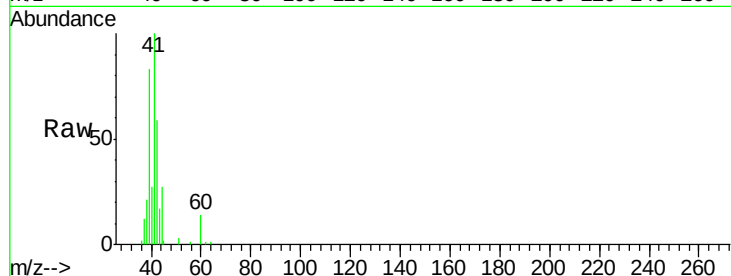
41 100

42 61.4 56.3 84.5

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#10

Heptane

Concen: 0.213 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. -0.01 min

Lab File: VL035606.D

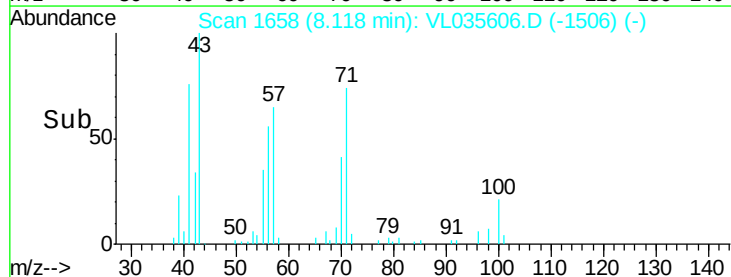
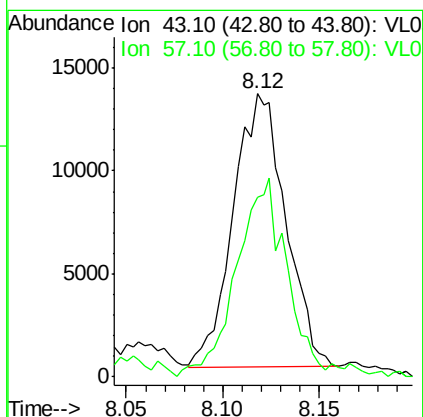
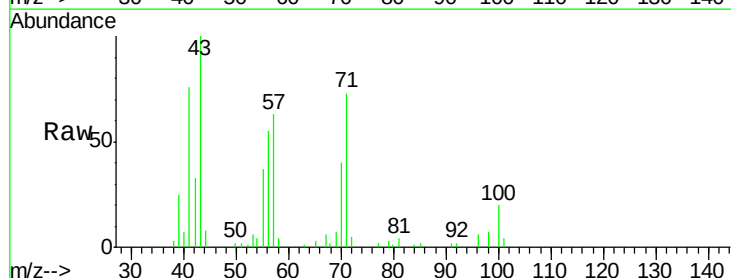
Acq: 14 Sep 2020 19:46

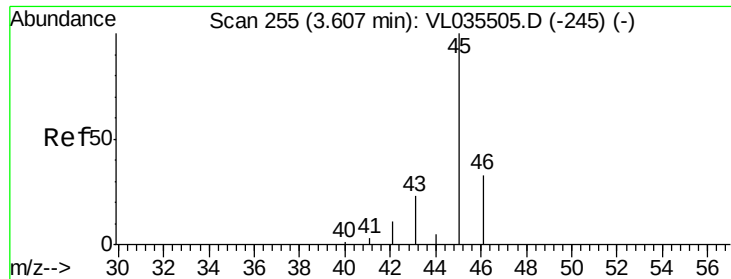
Tgt Ion: 43 Resp: 25118

Ion Ratio Lower Upper

43 100

57 71.6 51.4 77.0





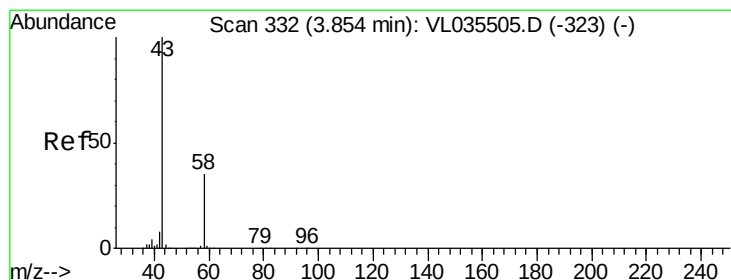
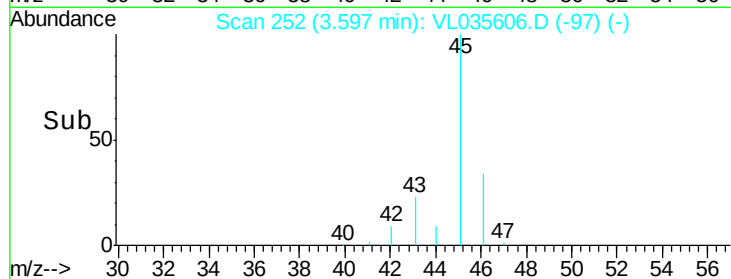
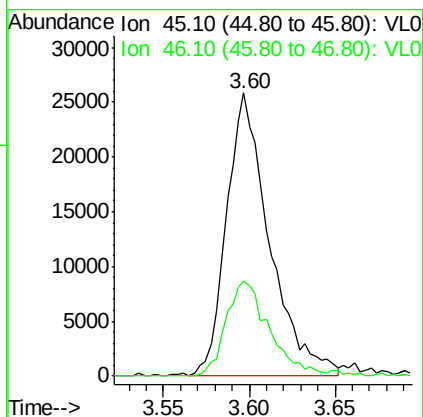
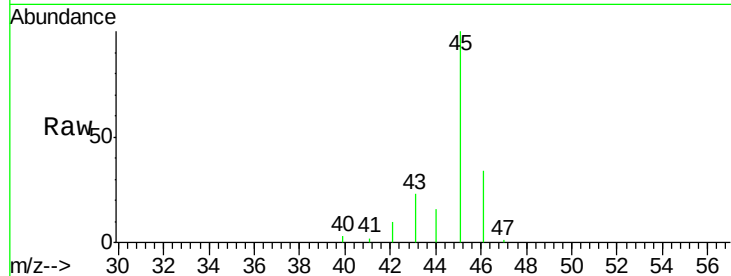
#13
Ethanol
Concen: 4.144 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.00 min
Lab File: VL035606.D
Acq: 14 Sep 2020 19:46

Instrument :
MSVOA_L
ClientSampled :
SV-9

Tot Ion: 45 Resp: 45107
Ion Ratio Lower Upper
45 100
46 34.2 15.2 60.6

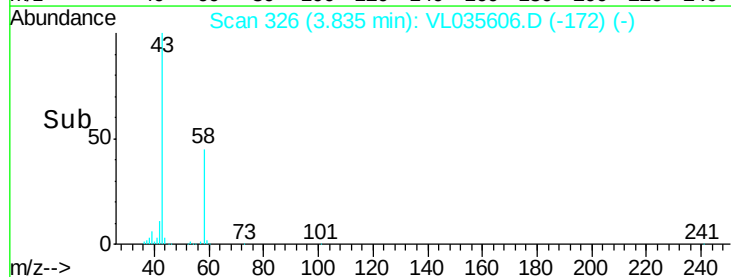
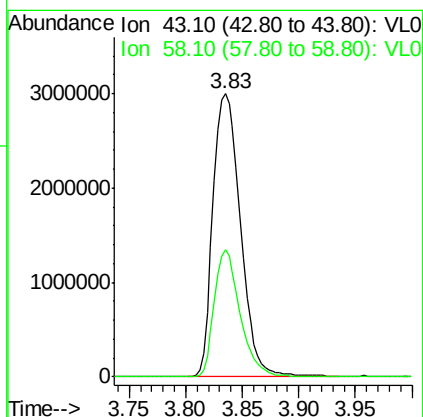
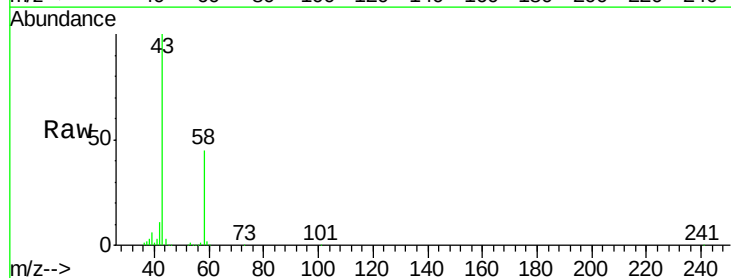
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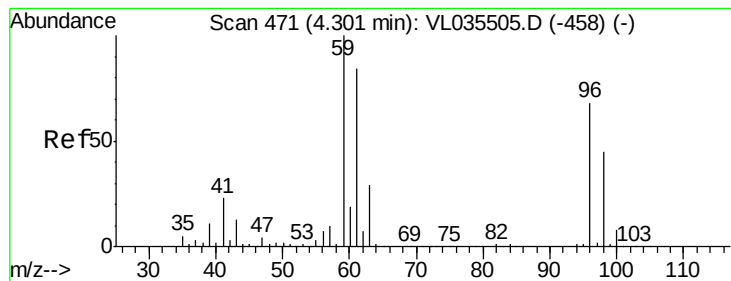
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#15
Acetone
Concen: 45.015 ppbv
RT: 3.83 min Scan# 326
Delta R.T. -0.00 min
Lab File: VL035606.D
Acq: 14 Sep 2020 19:46

Tgt Ion: 43 Resp: 5112151
Ion Ratio Lower Upper
43 100
58 42.2 28.4 42.6





#17

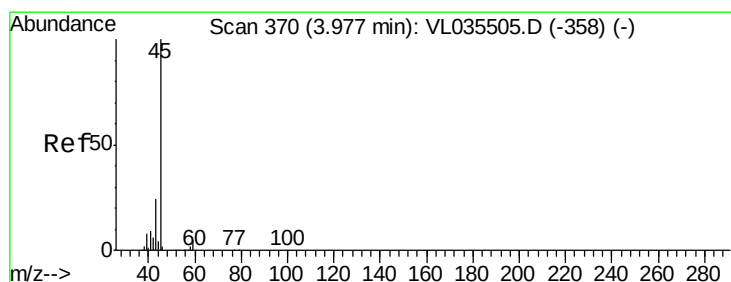
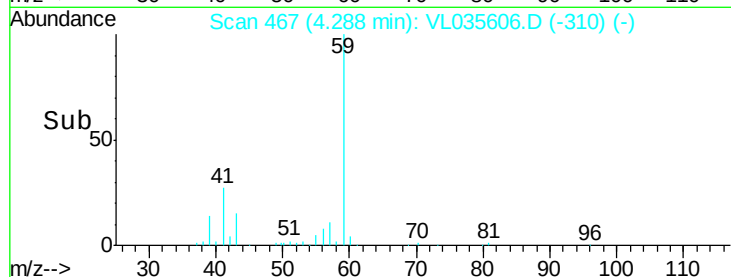
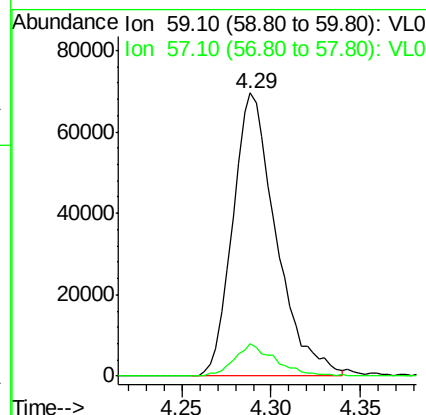
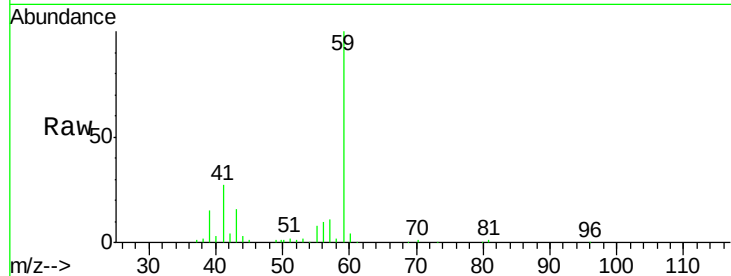
tert-Butyl alcohol
 Concen: 0.850 ppbv
 RT: 4.29 min Scan# 467
 Delta R.T. 0.01 min
 Lab File: VL035606.D
 Acq: 14 Sep 2020 19:46

Instrument :
 MSVOA_L
 ClientSampled :
 SV-9

Tot Ion: 59 Resp: 117561
 Ion Ratio Lower Upper
 59 100
 57 10.8 8.4 12.6

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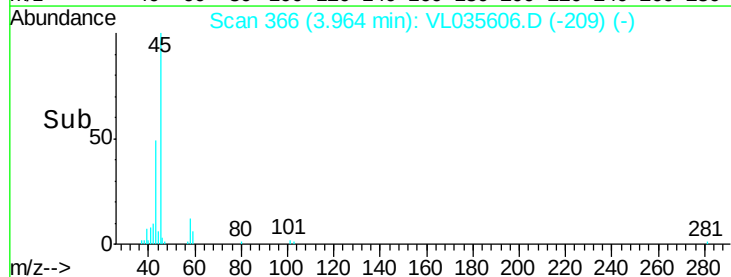
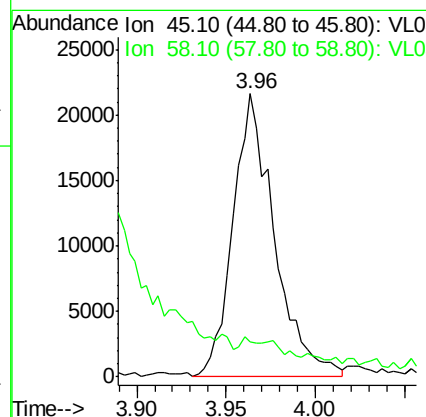
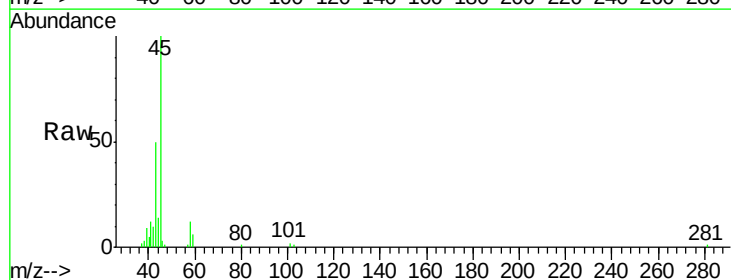
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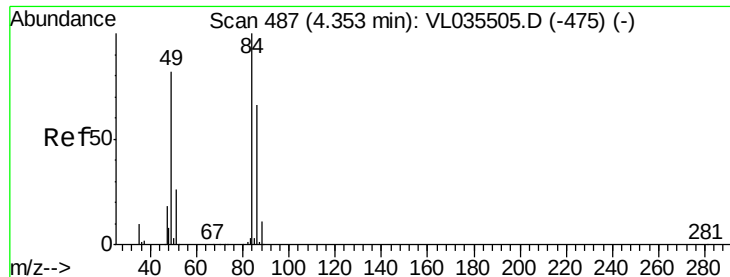


#19

Isopropyl Alcohol
 Concen: 0.517 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. 0.01 min
 Lab File: VL035606.D
 Acq: 14 Sep 2020 19:46

Tgt Ion: 45 Resp: 35035
 Ion Ratio Lower Upper
 45 100
 58 0.0 2.0 3.0#





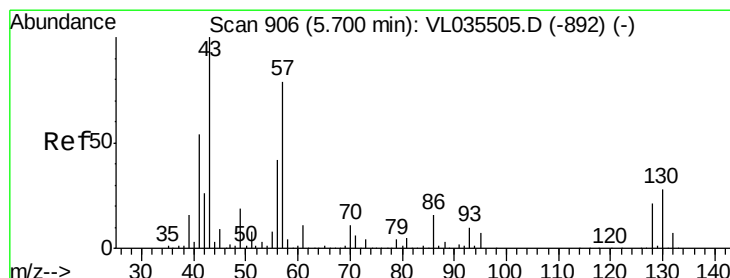
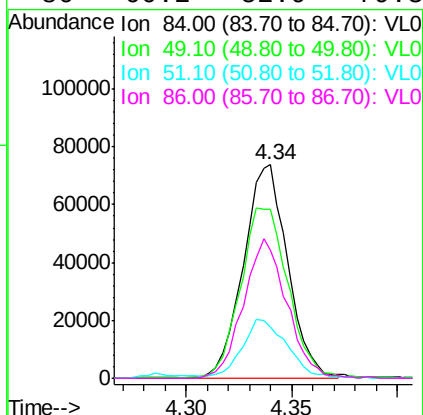
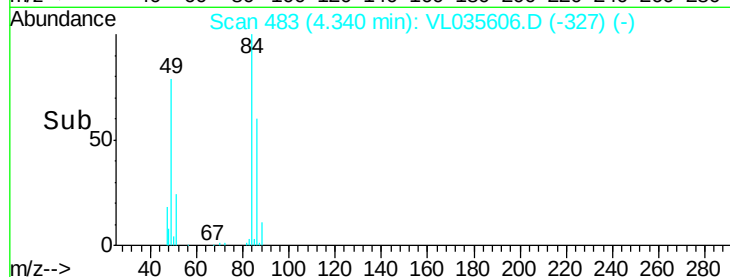
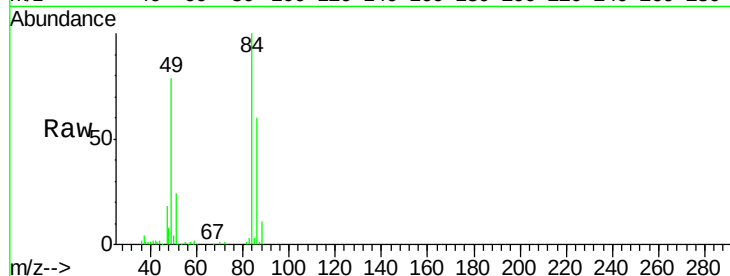
#20
Methylene Chloride
Concen: 1.272 ppbv
RT: 4.34 min Scan# 483
Delta R.T. 0.00 min
Lab File: VL035606.D
Acq: 14 Sep 2020 19:46

Instrument :
MSVOA_L
ClientSampled :
SV-9

Tot Ion:	84	Resp:	107594
Ion Ratio	Lower	Upper	
84	100		
49	78.1	65.4	98.0
51	23.7	21.5	32.3
86	60.2	52.9	79.3

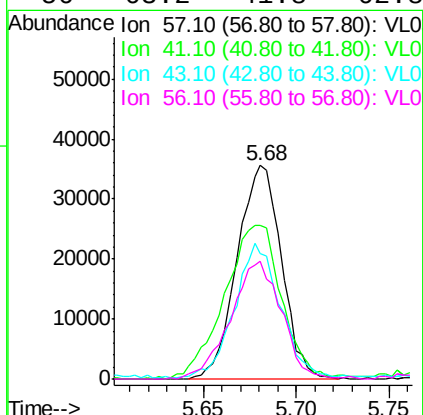
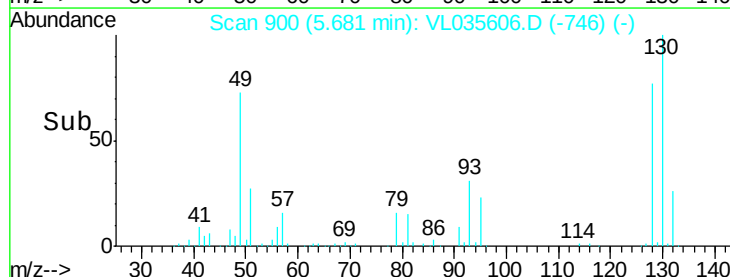
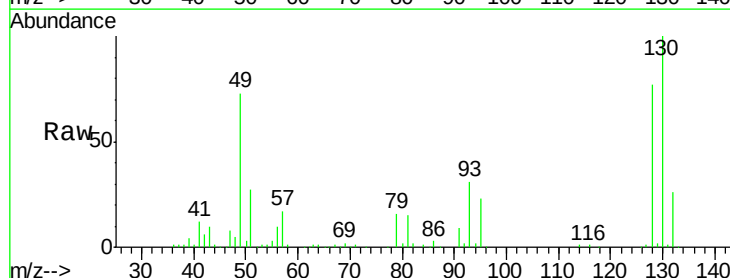
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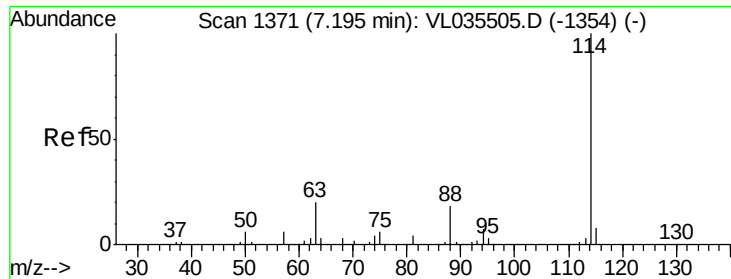
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#26
Hexane
Concen: 0.520 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL035606.D
Acq: 14 Sep 2020 19:46

Tgt Ion:	57	Resp:	59063
Ion Ratio	Lower	Upper	
57	100		
41	93.4	55.9	83.9#
43	64.5	141.8	212.8#
56	63.2	41.8	62.8#





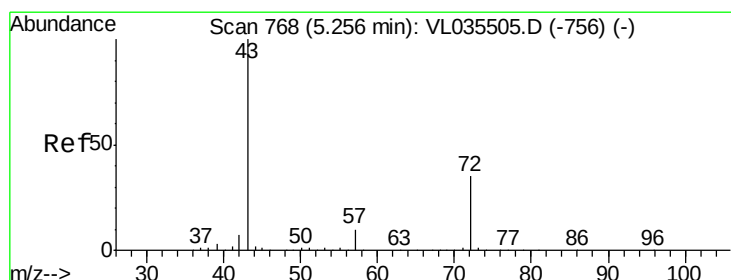
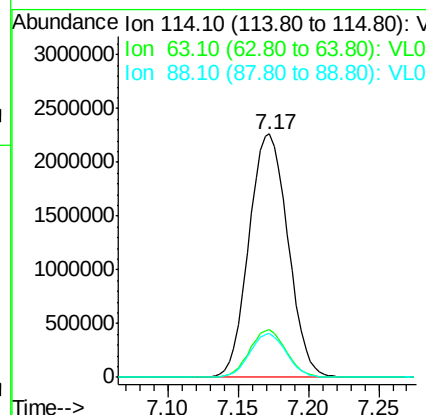
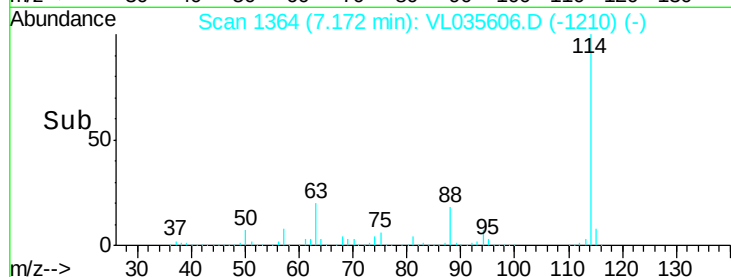
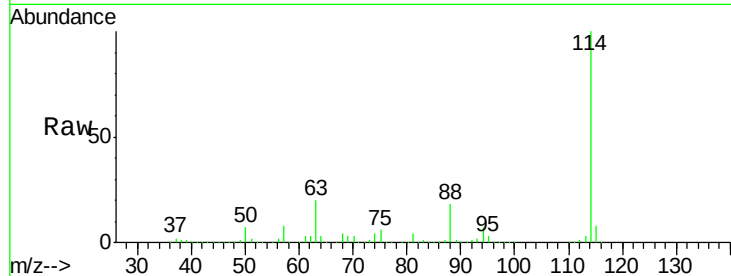
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.00 min
 Lab File: VL035606.D
 Acq: 14 Sep 2020 19:46

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-9

Tot Ion:114 Resp: 4392504
 Ion Ratio Lower Upper
 114 100
 63 18.5 14.7 22.1
 88 17.0 13.4 20.2

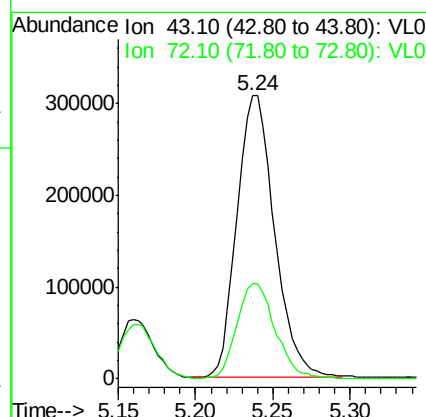
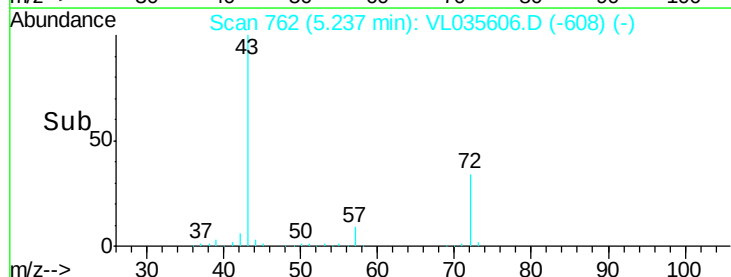
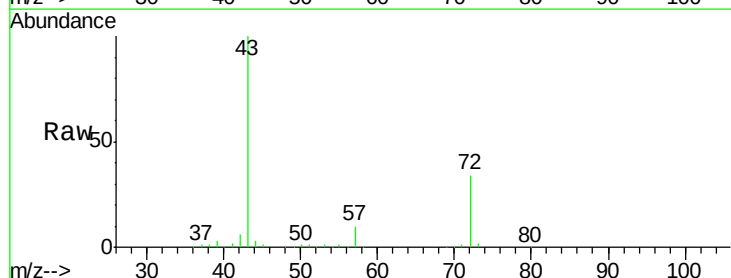
Manual Integrations
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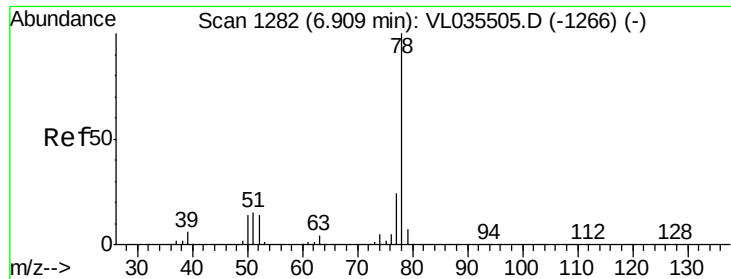
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#34
 2-Butanone
 Concen: 3.986 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. -0.00 min
 Lab File: VL035606.D
 Acq: 14 Sep 2020 19:46

Tgt Ion: 43 Resp: 519658
 Ion Ratio Lower Upper
 43 100
 72 35.1 27.7 41.5





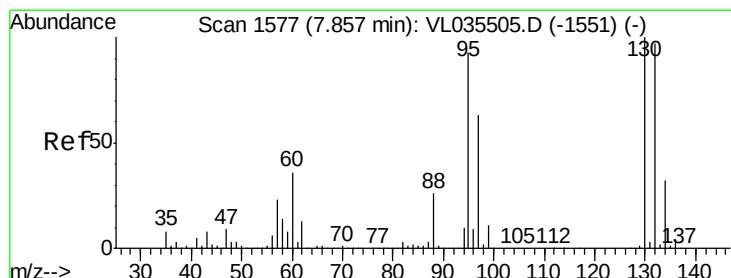
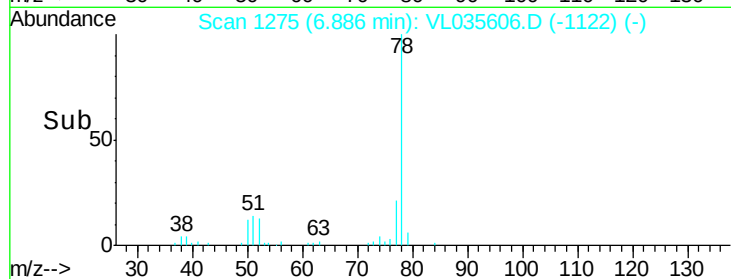
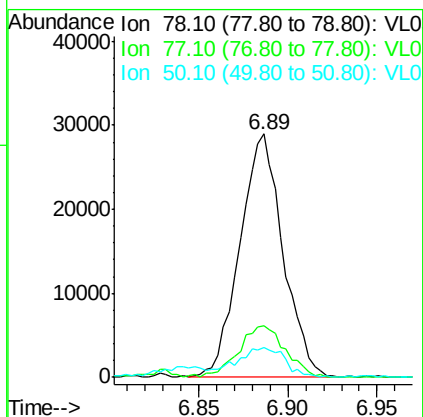
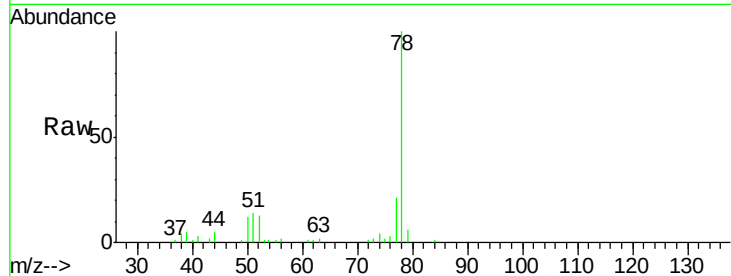
#36
Benzene
Concen: 0.172 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.01 min
Lab File: VL035606.D
Acq: 14 Sep 2020 19:46

Instrument :
MSVOA_L
ClientSampled :
SV-9

Tot Ion:	78	Resp:	48885
Ion	Ratio	Lower	Upper
78	100		
77	21.2	19.3	28.9
50	12.3	11.0	16.6

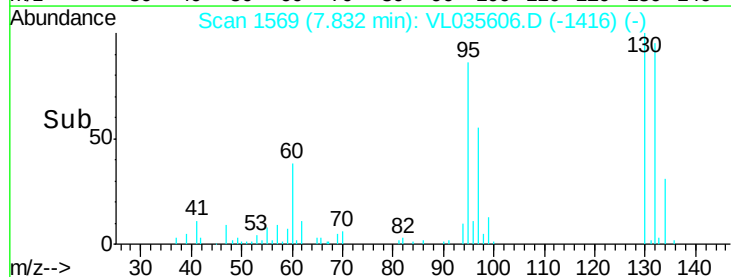
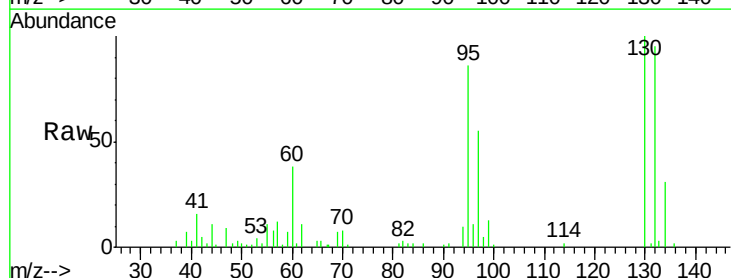
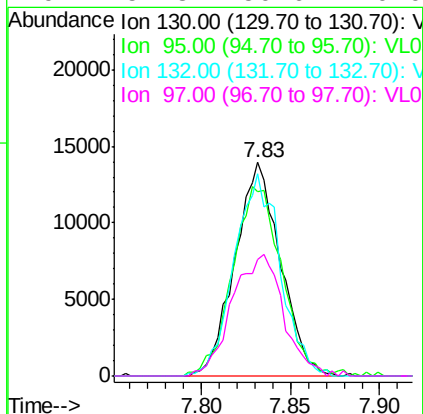
Manual Integrations
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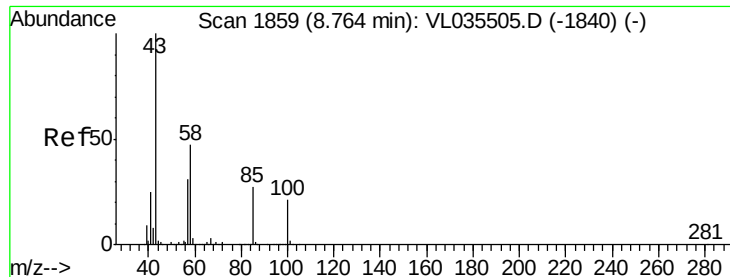
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#38
Trichloroethene
Concen: 0.150 ppbv
RT: 7.83 min Scan# 1569
Delta R.T. -0.01 min
Lab File: VL035606.D
Acq: 14 Sep 2020 19:46

Tgt Ion:	130	Resp:	24835
Ion	Ratio	Lower	Upper
130	100		
95	84.4	74.6	112.0
132	94.6	77.6	116.4
97	54.8	50.6	76.0





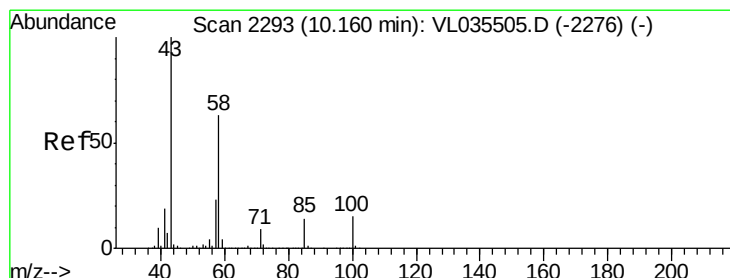
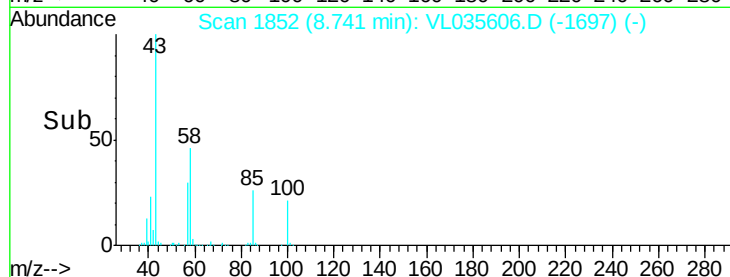
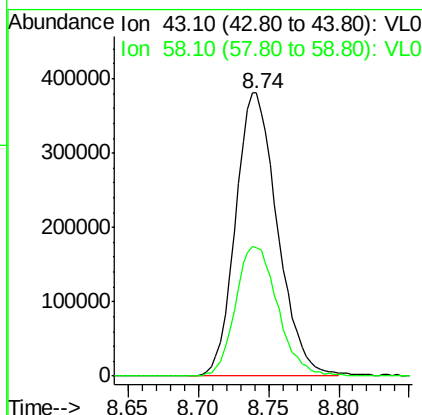
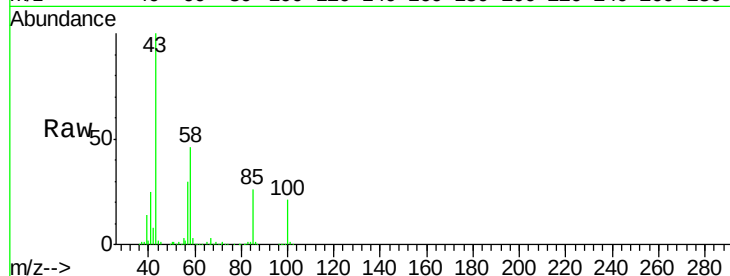
#50
4-Methyl-2-Pentanone
Concen: 4.186 ppbv
RT: 8.74 min Scan# 1852
Delta R.T. -0.00 min
Lab File: VL035606.D
Acq: 14 Sep 2020 19:46

Instrument :
MSVOA_L
ClientSampled :
SV-9

Tot Ion: 43 Resp: 790078
Ion Ratio Lower Upper
43 100
58 46.7 37.4 56.0

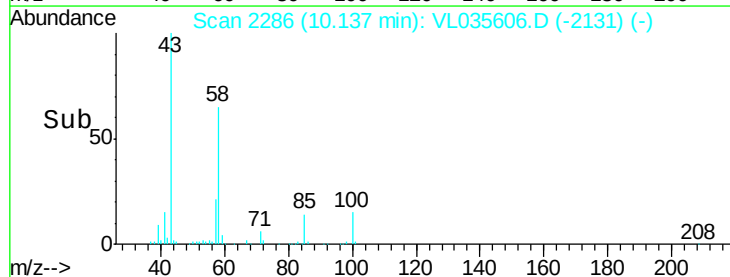
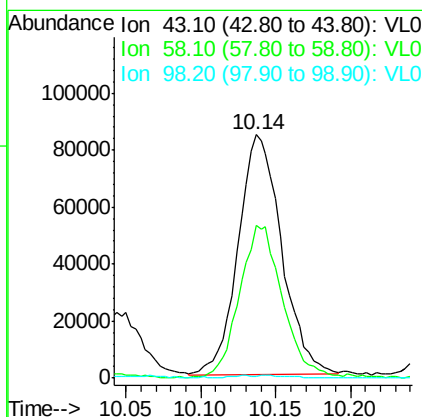
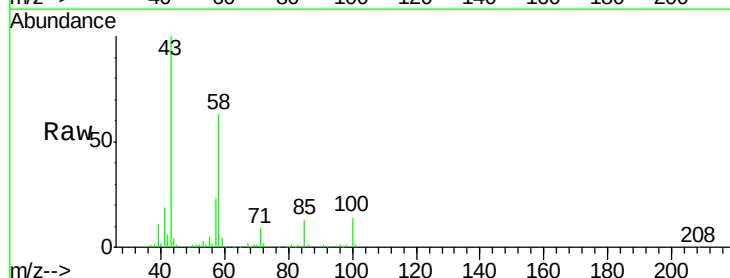
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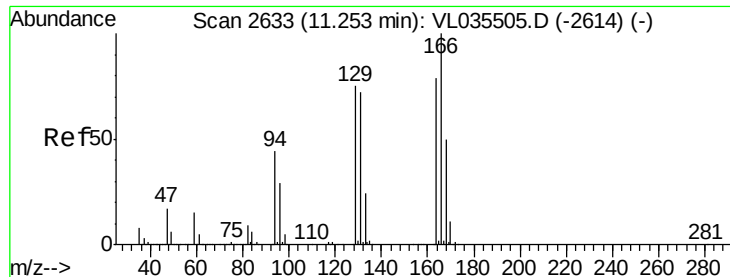
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#51
2-Hexanone
Concen: 1.097 ppbv
RT: 10.14 min Scan# 2286
Delta R.T. -0.00 min
Lab File: VL035606.D
Acq: 14 Sep 2020 19:46

Tgt Ion: 43 Resp: 169828
Ion Ratio Lower Upper
43 100
58 63.9 50.2 75.4
98 1.5 0.4 0.6#





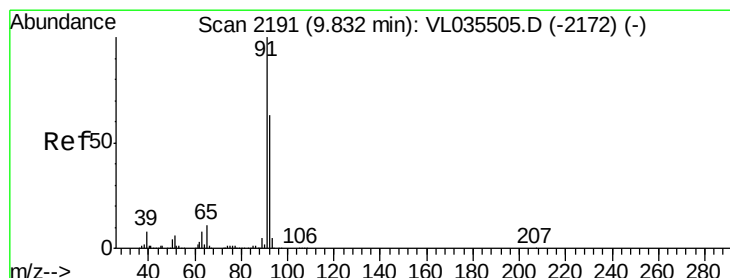
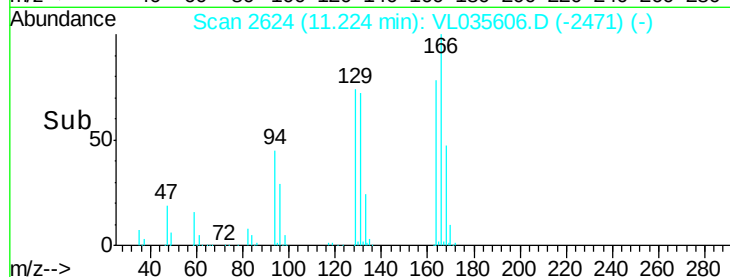
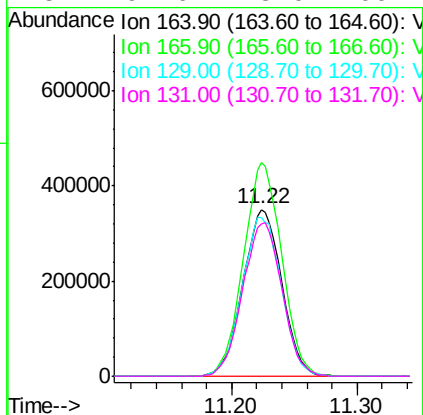
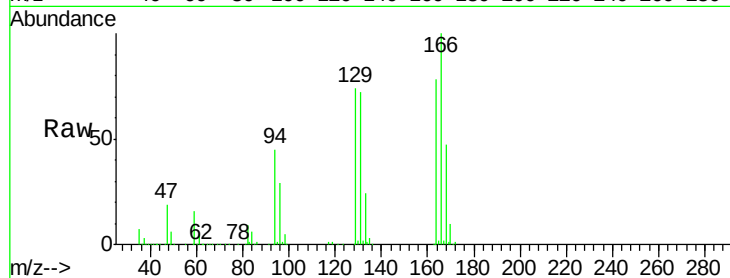
#52
Tetrachloroethene
Concen: 4.539 ppbv
RT: 11.22 min Scan# 2624
Delta R.T. -0.01 min
Lab File: VL035606.D
Acq: 14 Sep 2020 19:46

Instrument :
MSVOA_L
ClientSampleId :
SV-9

Tot Ion	Ratio	Lower	Upper
164	100		
166	128.0	100.9	151.3
129	95.2	75.3	112.9
131	91.6	73.0	109.4

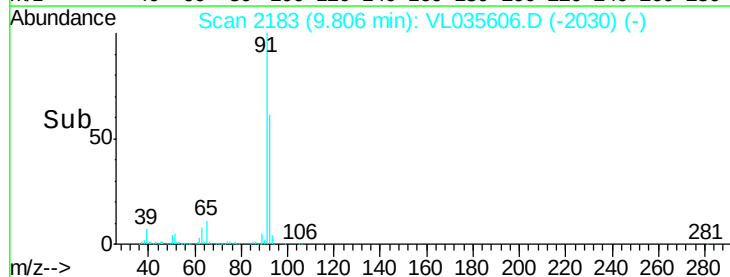
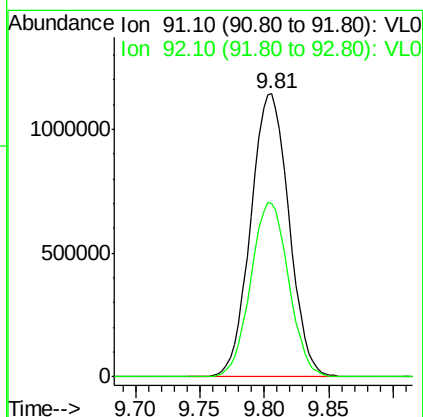
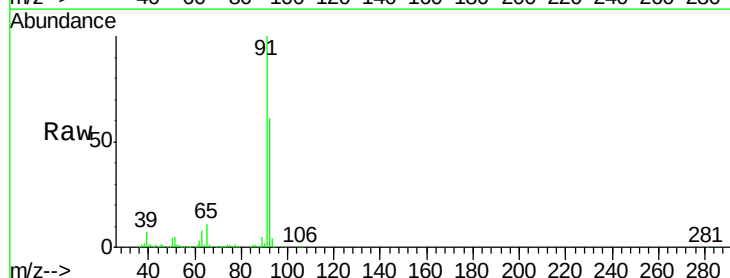
Manual Integrations
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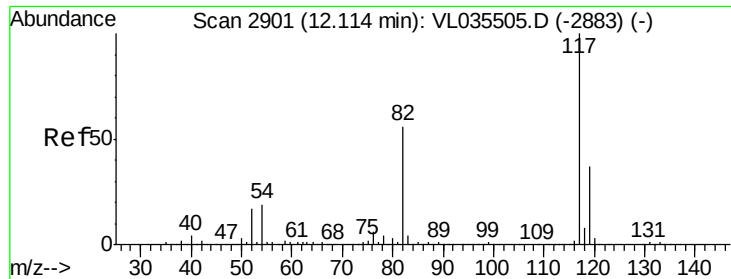
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#53
Toluene
Concen: 6.623 ppbv
RT: 9.81 min Scan# 2183
Delta R.T. -0.01 min
Lab File: VL035606.D
Acq: 14 Sep 2020 19:46

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.4	49.8	74.8





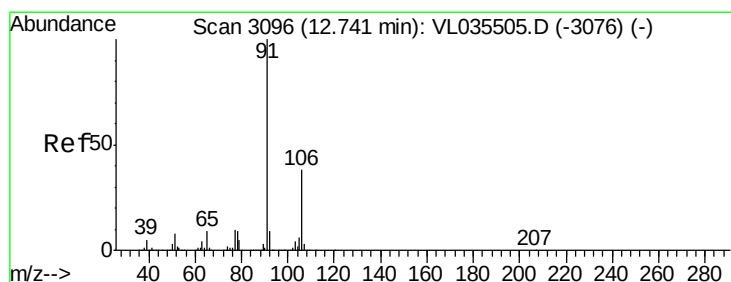
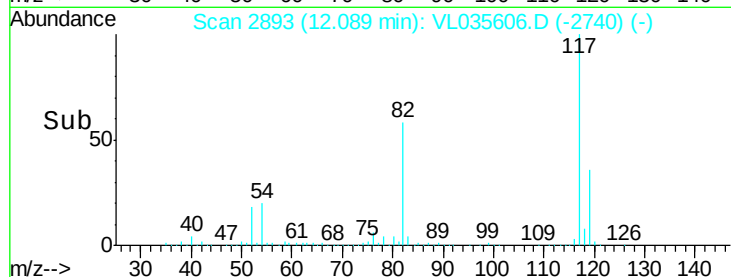
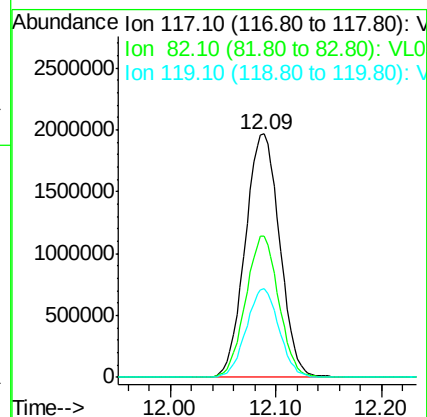
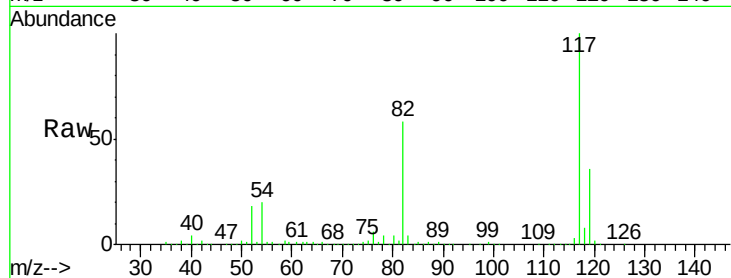
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL035606.D
Acq: 14 Sep 2020 19:46

Instrument :
MSVOA_L
ClientSampled :
SV-9

Tot Ion:117 Resp: 4466767
Ion Ratio Lower Upper
117 100
82 55.7 41.6 62.4
119 34.9 29.3 43.9

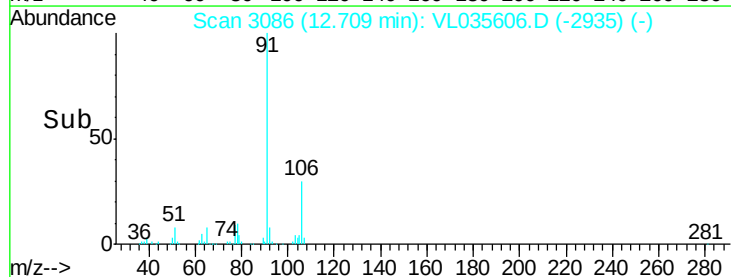
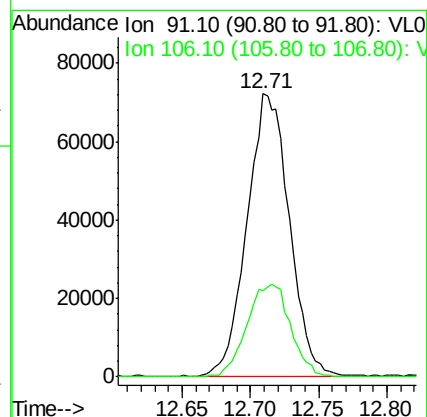
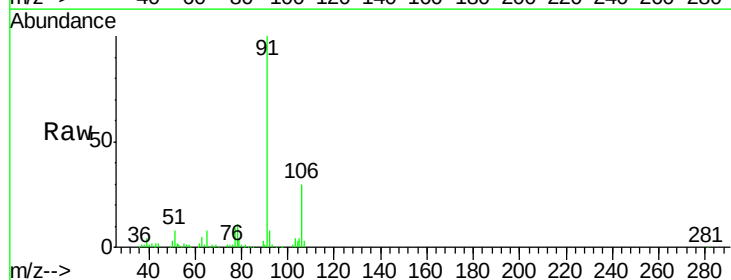
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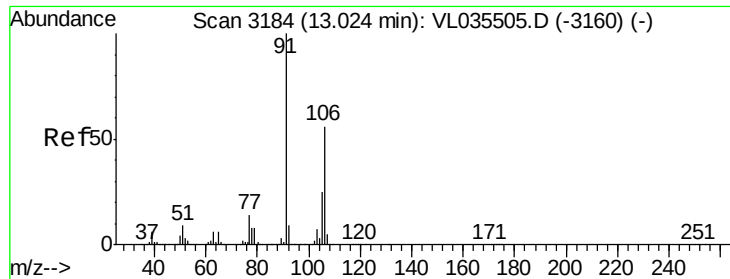
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#58
Ethyl Benzene
Concen: 0.338 ppbv
RT: 12.71 min Scan# 3086
Delta R.T. -0.01 min
Lab File: VL035606.D
Acq: 14 Sep 2020 19:46

Tgt Ion: 91 Resp: 155699
Ion Ratio Lower Upper
91 100
106 30.3 30.3 45.5#





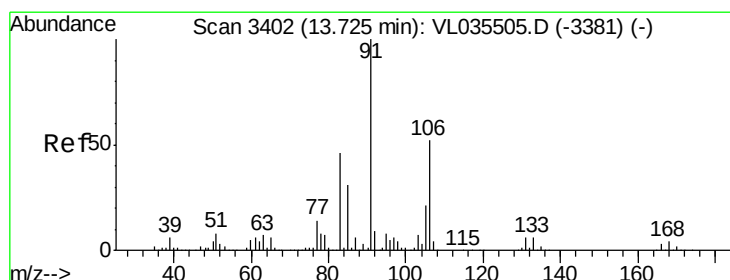
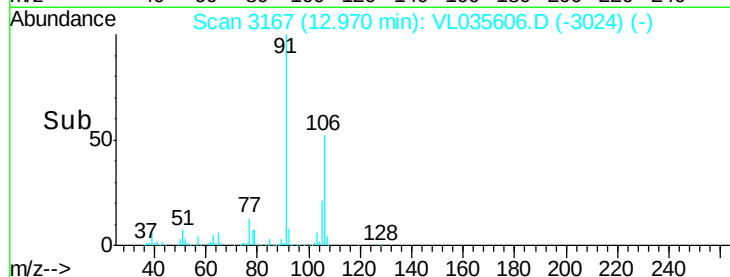
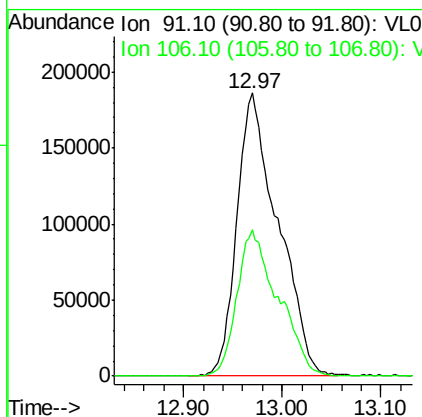
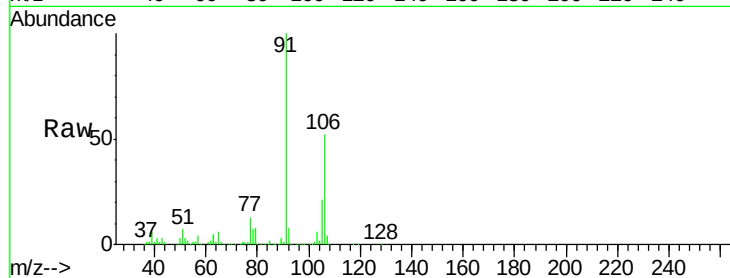
#59
m/p-Xylene
Concen: 1.395 ppbv
RT: 12.97 min Scan# 3167
Delta R.T. -0.04 min
Lab File: VL035606.D
Acq: 14 Sep 2020 19:46

Instrument :
MSVOA_L
ClientSampled :
SV-9

Tot Ion: 91 Resp: 536799
Ion Ratio Lower Upper
91 100
106 51.7 43.4 65.2

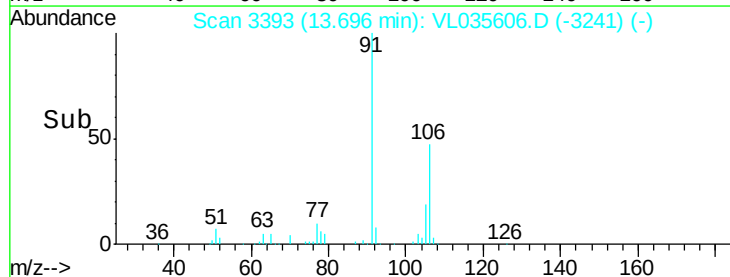
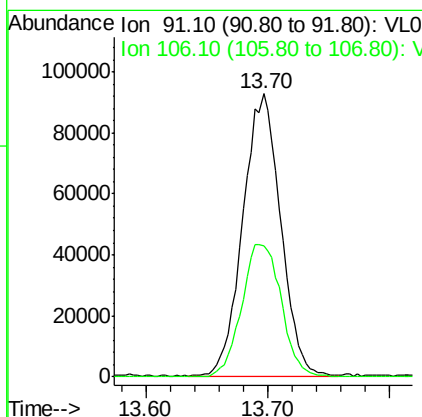
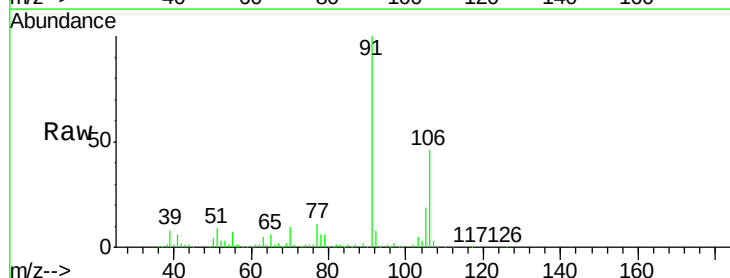
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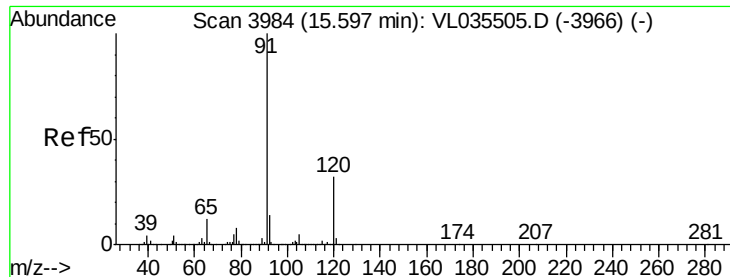
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#60
o-Xylene
Concen: 0.509 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL035606.D
Acq: 14 Sep 2020 19:46

Tgt Ion: 91 Resp: 197414
Ion Ratio Lower Upper
91 100
106 49.4 25.8 77.4





#64

n-propylbenzene

Concen: 0.113 ppbv m

RT: 15.56 min Scan# 3974

Delta R.T. -0.01 min

Lab File: VL035606.D

Acq: 14 Sep 2020 19:46

Instrument :

MSVOA_L

ClientSampleId :

SV-9

Tot Ion:120 Resp: 21460

Ion Ratio Lower Upper

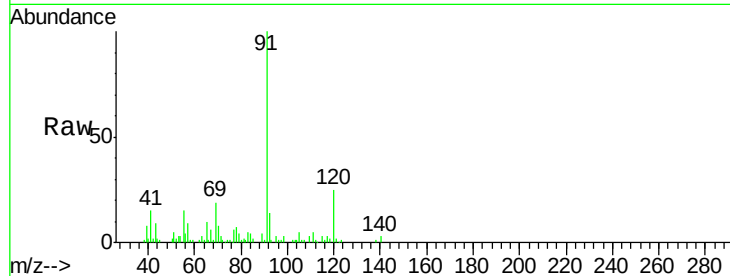
120 100

91 437.6 279.4 419.0#

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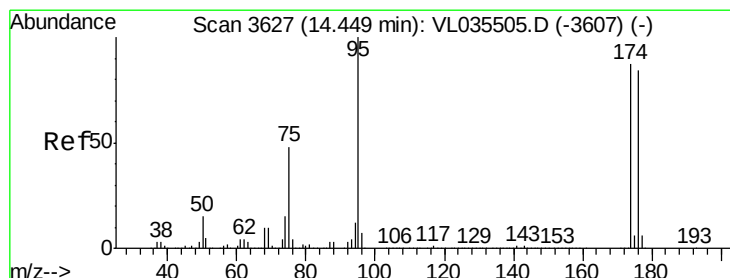
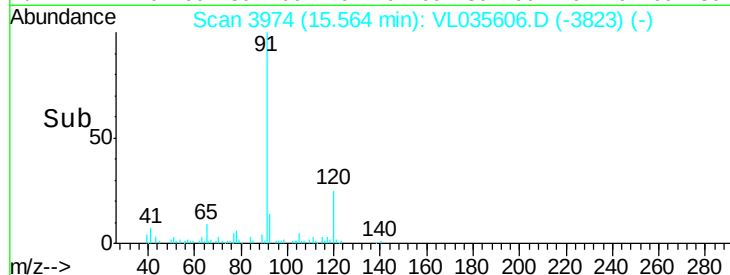
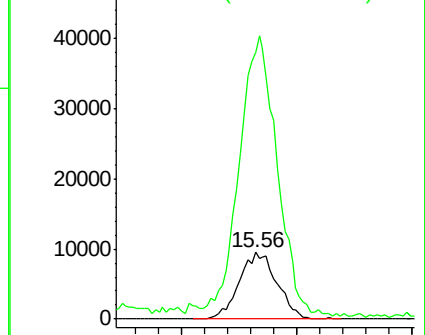
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Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.731 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL035606.D

Acq: 14 Sep 2020 19:46

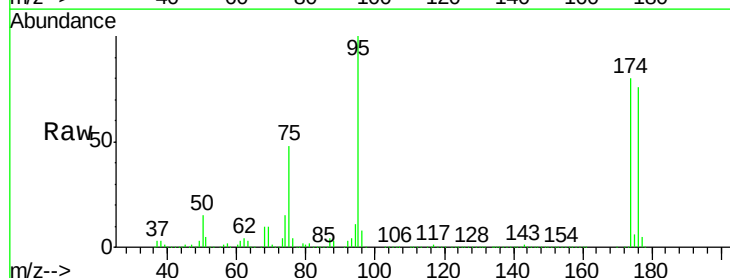
Tgt Ion: 95 Resp: 3404080

Ion Ratio Lower Upper

95 100

174 79.7 69.6 104.4

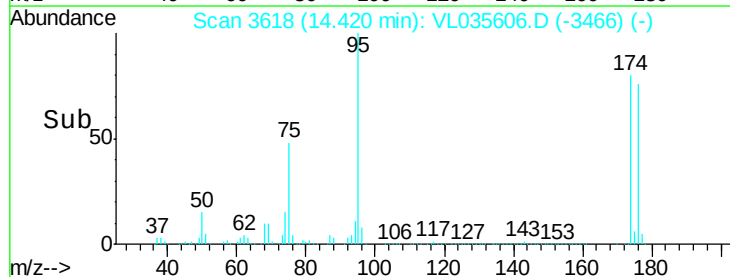
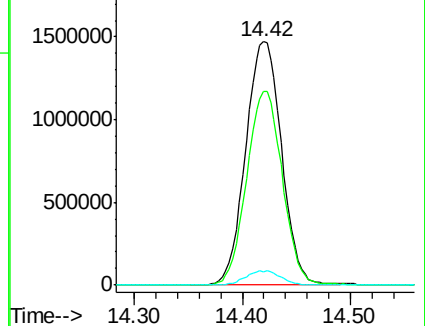
175 5.8 5.1 7.7

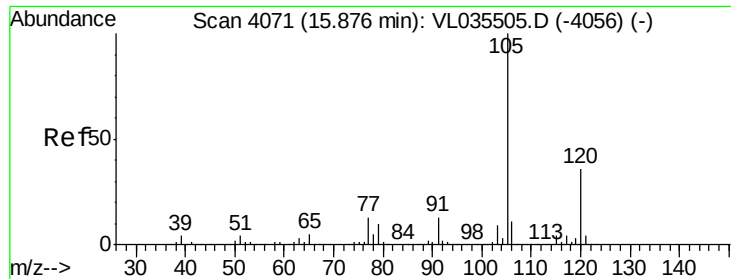


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#72

4-Ethyltoluene

Concen: 0.225 ppbv

RT: 15.85 min Scan# 4062

Delta R.T. -0.01 min

Lab File: VL035606.D

Acq: 14 Sep 2020 19:46

Instrument :

MSVOA_L

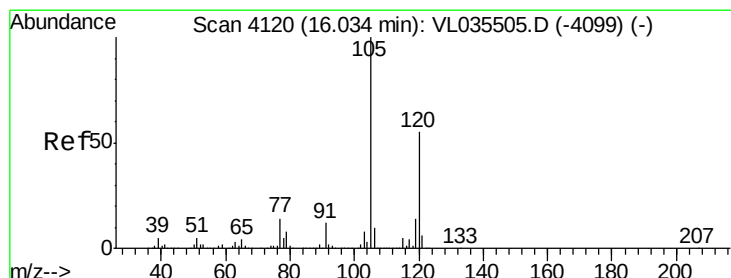
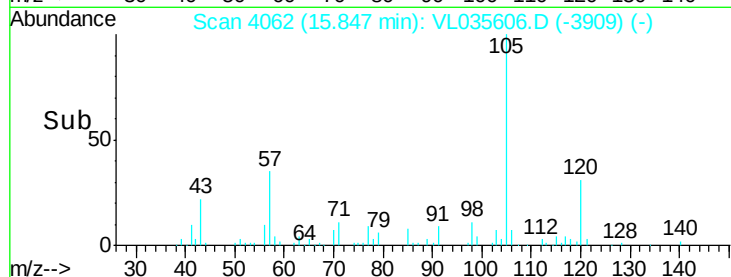
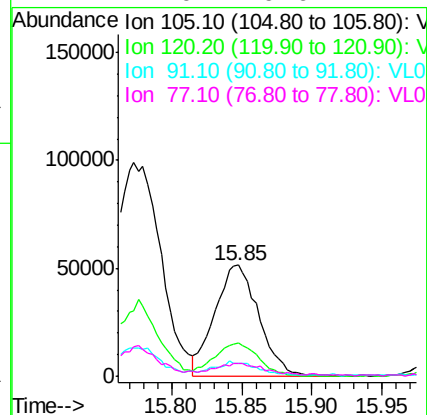
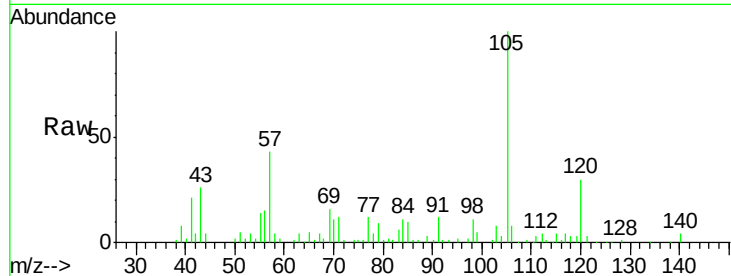
ClientSampled :

SV-9

Tot Ion	Ratio	Lower	Upper
105	100		
120	31.5	27.4	41.2
91	11.2	9.7	14.5
77	12.0	9.6	14.4

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#73

1,3,5-Trimethylbenzene

Concen: 0.155 ppbv

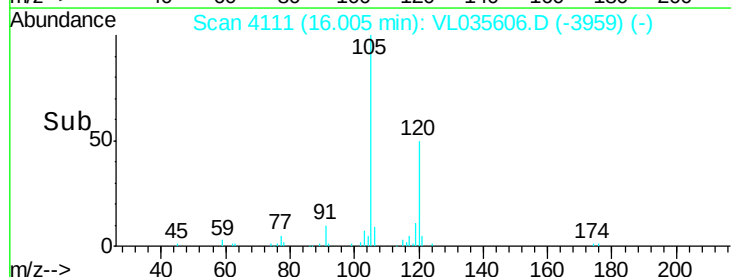
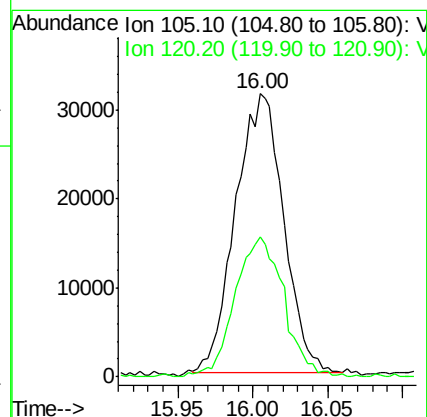
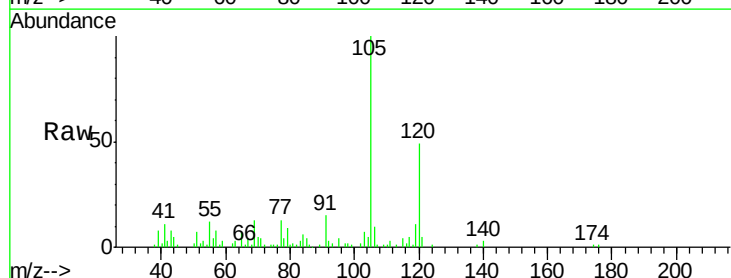
RT: 16.00 min Scan# 4111

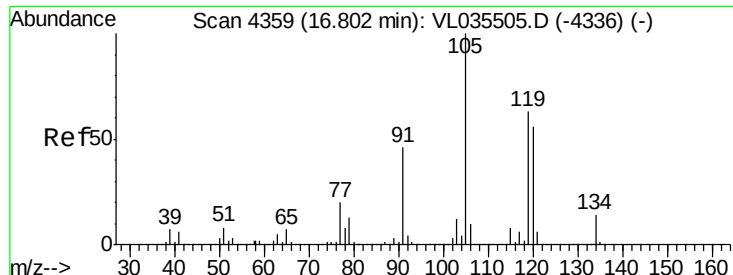
Delta R.T. -0.01 min

Lab File: VL035606.D

Acq: 14 Sep 2020 19:46

Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.2	44.2	66.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.614 ppbv
 RT: 16.77 min Scan# 4349
 Delta R.T. -0.01 min
 Lab File: VL035606.D
 Acq: 14 Sep 2020 19:46

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-9

Tot Ion	Ion	Ratio	Resp Lower	Resp Upper
105	105	100		
120	120	46.3	44.4	66.6
91	91	9.7	37.1	55.7
77	77	11.5	16.0	24.0

Manual Integrations
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