

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082020\
 Data File : VL035481.D
 Acq On : 20 Aug 2020 19:08
 Operator : SY/AP
 Sample : L3743-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSMP-4DL

Manual Integrations
 APPROVED

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 8/21/2020 11:24:40 AM

Quant Time: Aug 21 10:00:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Mon Aug 1
 QLast Update : Mon Aug 17 19:28:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1070329	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4943357	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	4840472	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3453217	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.01	41	108465m	2.011	ppbv	
13) Ethanol	3.60	45	901018	45.591	ppbv	99
15) Acetone	3.85	43	525679	4.267	ppbv #	79
20) Methylene Chloride	4.35	84	308756	3.106	ppbv #	65
26) Hexane	5.69	57	123078	0.910	ppbv #	30
29) Chloroform	5.76	83	32060m	0.118	ppbv	
34) 2-Butanone	5.25	43	92078	0.557	ppbv #	69
36) Benzene	6.89	78	51941	0.143	ppbv #	86
38) Trichloroethene	7.84	130	2508213	12.428	ppbv #	86
41) Tetrahydrofuran	6.07	42	23227m	0.255	ppbv	
52) Tetrachloroethene	11.24	164	1517992	6.859	ppbv	87
53) Toluene	9.82	91	373439	0.799	ppbv	99
58) Ethyl Benzene	12.73	91	83233	0.142	ppbv	96
59) m/p-Xylene	12.99	91	259886	0.526	ppbv #	83
60) o-Xylene	13.71	91	97325	0.203	ppbv	89
72) 4-Ethyltoluene	15.86	105	69523	0.110	ppbv #	92
73) 1,3,5-Trimethylbenzene	16.02	105	72153m	0.123	ppbv	
74) 1,2,4-Trimethylbenzene	16.78	105	295511	0.464	ppbv #	70
79) Naphthalene	22.23	128	108717	0.121	ppbv #	93

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

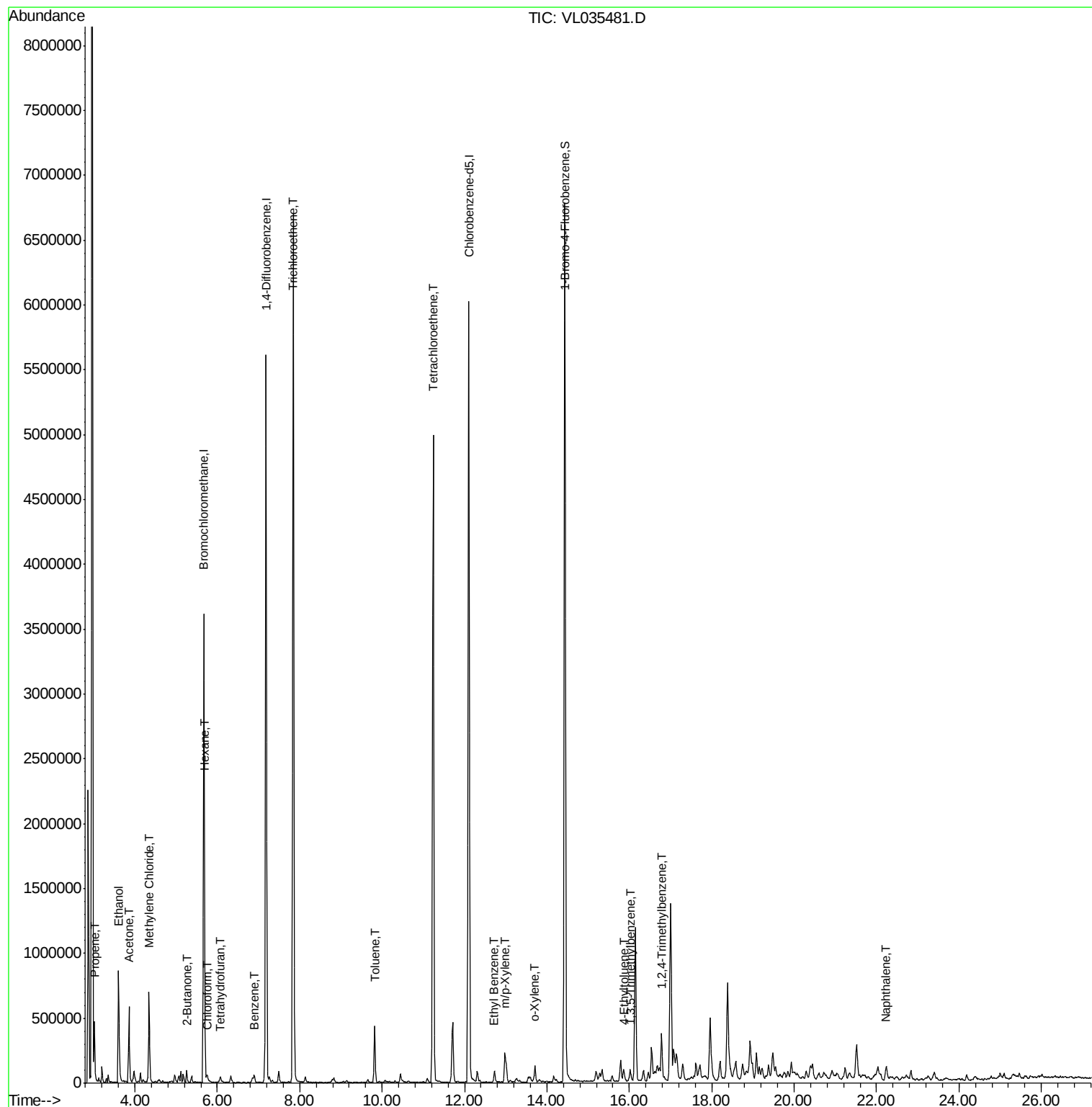
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL082020\
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Quant Time: Aug 21 10:00:21 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug
QLast Update : Mon Aug 17 19:28:30 2020
Response via : Initial Calibration





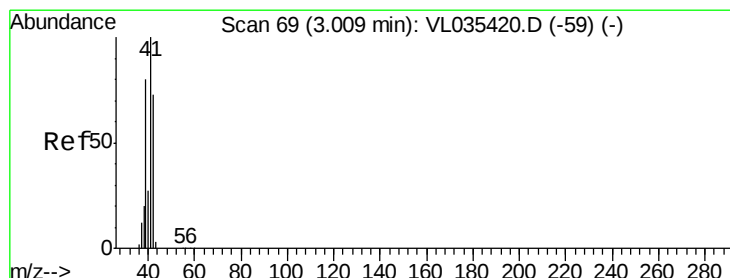
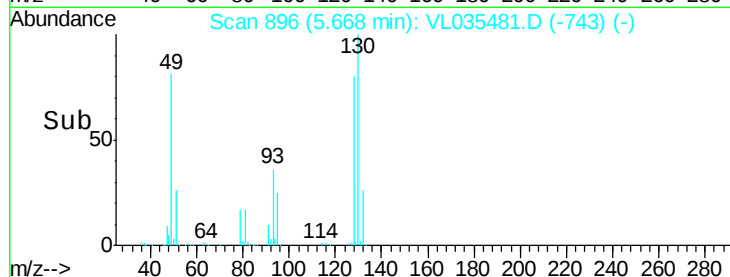
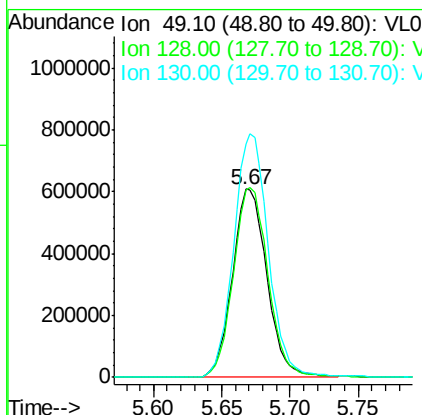
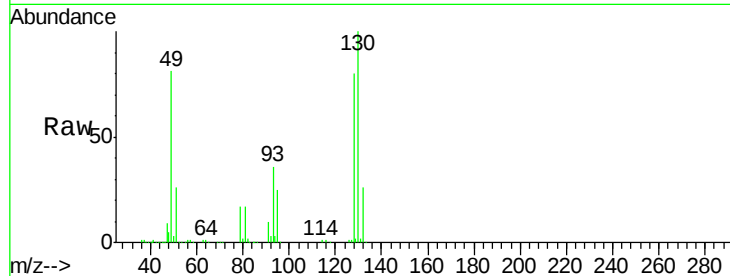
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67 min Scan# 896
 Delta R.T. -0.01 min
 Lab File: VL035481.D
 Acq: 20 Aug 2020 19:08

Instrument :
 MSVOA_L
 ClientSampleId :
 SSMP-4DL

Tot Ion: 49 Resp: 1070329
 Ion Ratio Lower Upper
 49 100
 128 102.4 20.9 62.7#
 130 130.9 26.7 80.1#

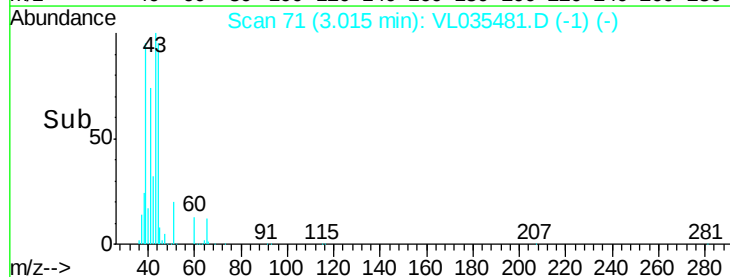
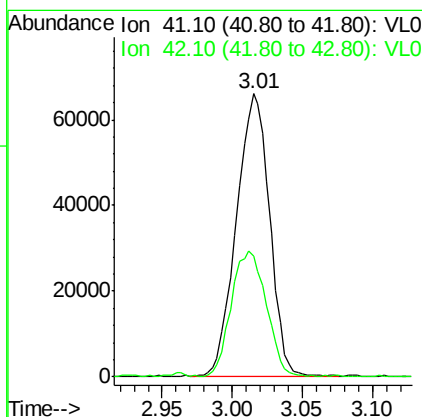
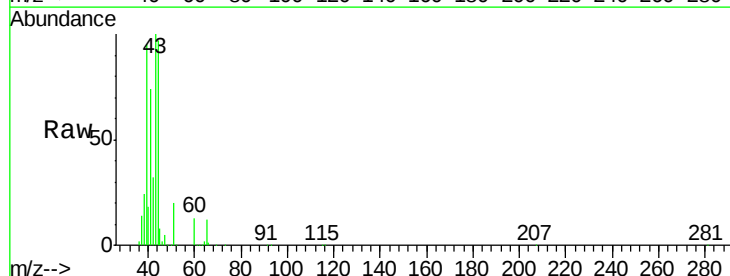
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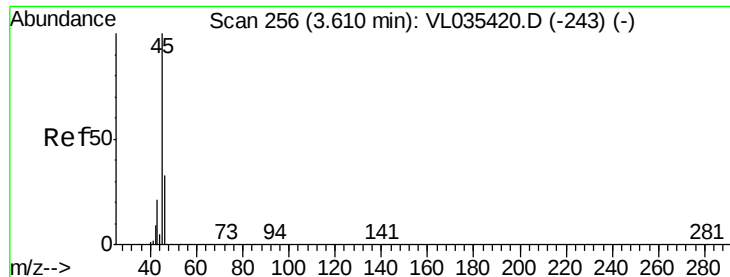
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#9
 Propene
 Concen: 2.011 ppbv m
 RT: 3.01 min Scan# 71
 Delta R.T. 0.01 min
 Lab File: VL035481.D
 Acq: 20 Aug 2020 19:08

Tgt Ion: 41 Resp: 108465
 Ion Ratio Lower Upper
 41 100
 42 4.6 55.5 83.3#





#13

Ethanol

Concen: 45.591 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.00 min

Lab File: VL035481.D

Acq: 20 Aug 2020 19:08

Instrument :

MSVOA_L

ClientSampleId :

SSMP-4DL

Tot Ion: 45 Resp: 901018

Ion Ratio Lower Upper

45 100

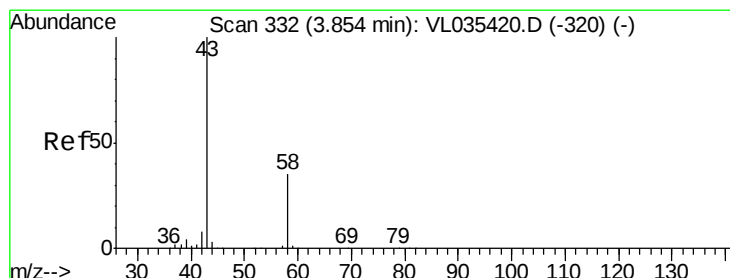
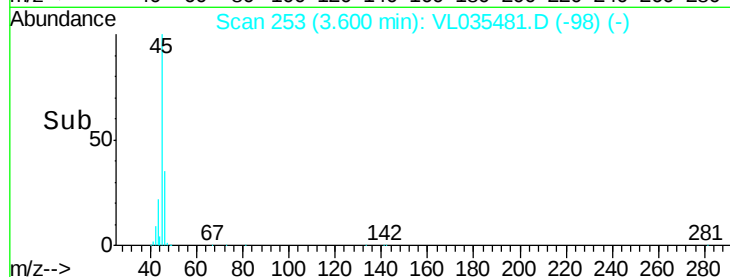
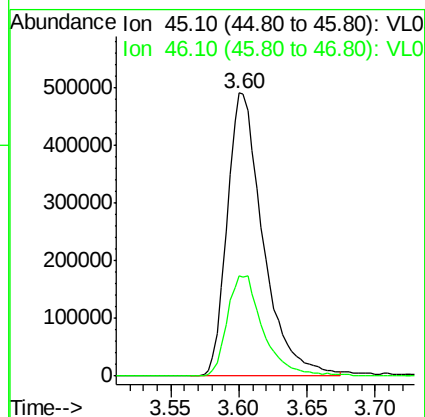
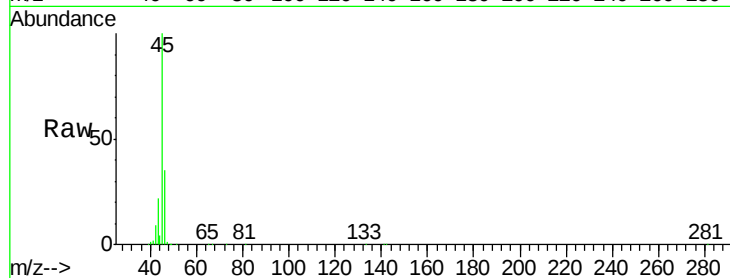
46 35.7 14.2 56.6

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#15

Acetone

Concen: 4.267 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.01 min

Lab File: VL035481.D

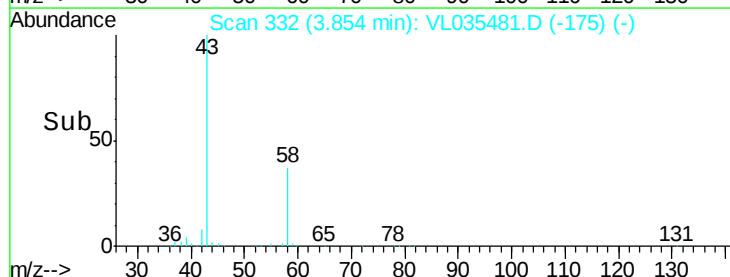
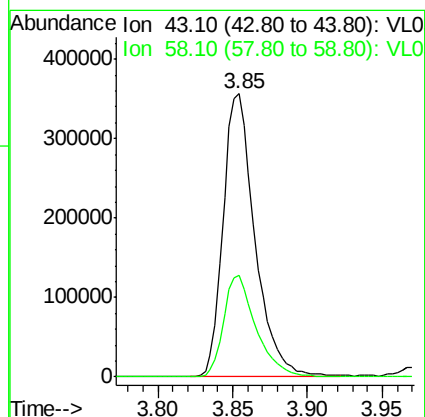
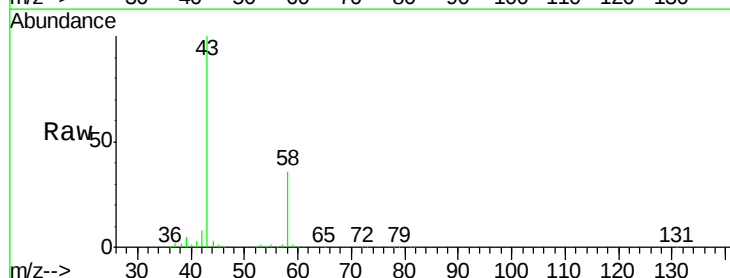
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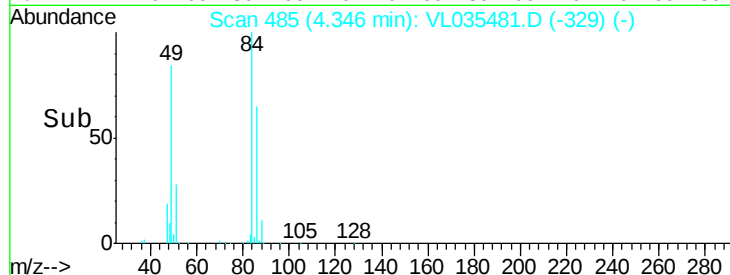
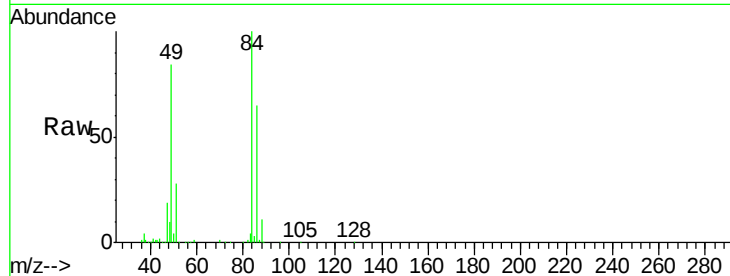
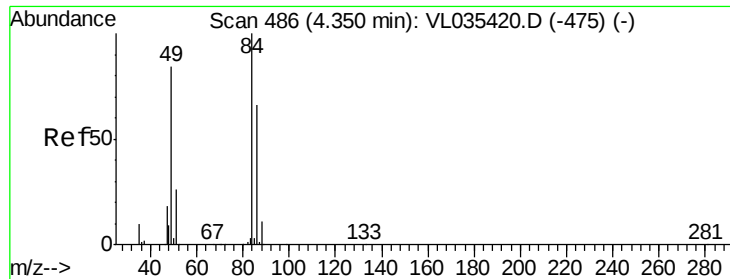
Tgt Ion: 43 Resp: 525679

Ion Ratio Lower Upper

43 100

58 36.9 21.0 31.6#





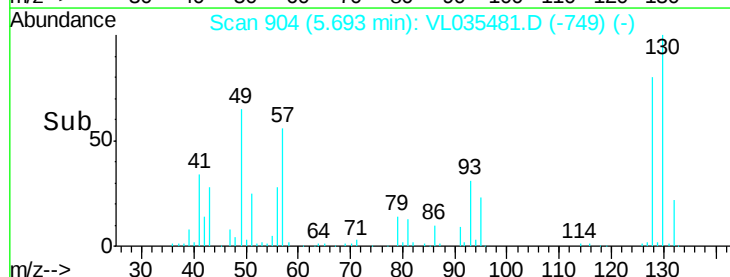
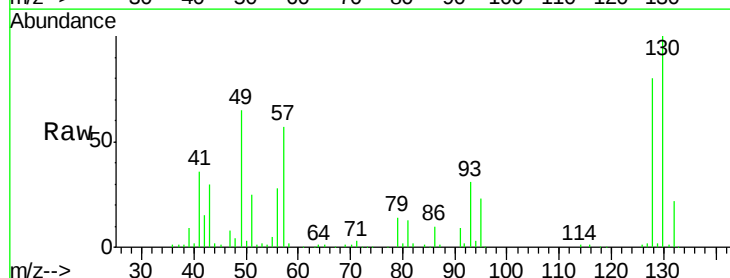
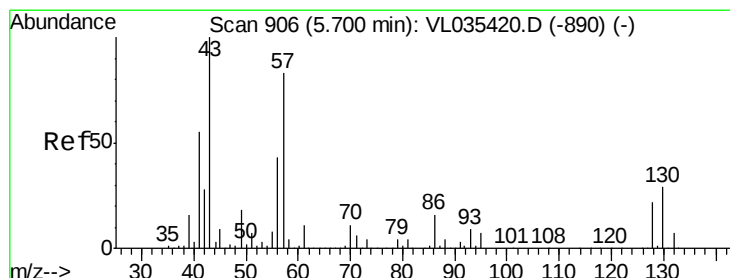
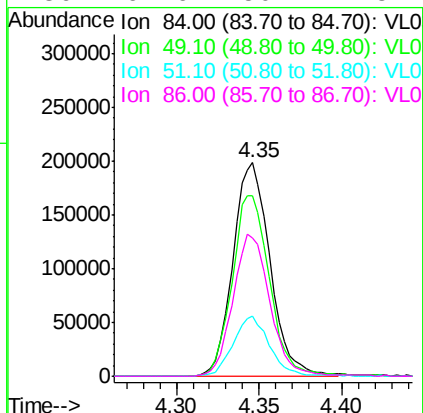
#20
Methvlene Chloride
Concen: 3.106 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.00 min
Lab File: VL035481.D
Acq: 20 Aug 2020 19:08

Tot Ion	Ratio	Lower	Upper
84	100		
49	84.5	118.6	177.8#
51	27.7	36.4	54.6#
86	64.6	50.2	75.4

Instrument :
MSVOA_L
ClientSampleId :
SSMP-4DL

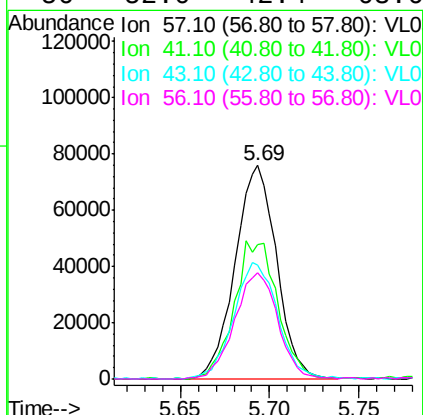
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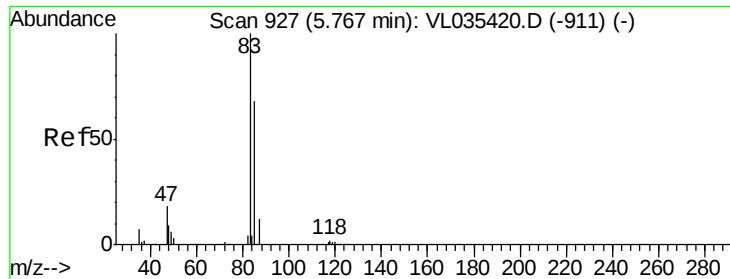
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#26
Hexane
Concen: 0.910 ppbv
RT: 5.69 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL035481.D
Acq: 20 Aug 2020 19:08

Tgt Ion	Ratio	Lower	Upper
57	100		
41	67.6	75.5	113.3#
43	58.2	181.7	272.5#
56	52.0	42.4	63.6





#29

Chloroform

Concen: 0.118 ppbv m

RT: 5.76 min Scan# 924

Delta R.T. -0.00 min

Lab File: VL035481.D

Acq: 20 Aug 2020 19:08

Instrument :

MSVOA_L

ClientSampleId :

SSMP-4DL

Tot Ion: 83 Resp: 32060

Ion Ratio Lower Upper

83 100

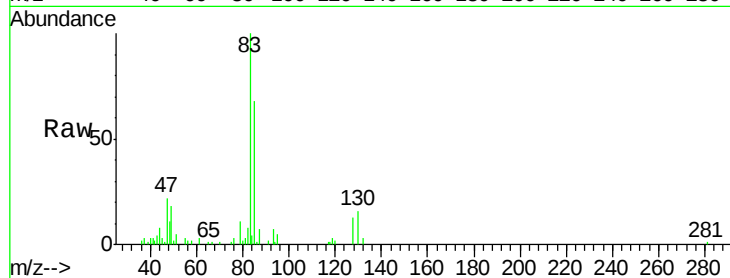
85 68.1 52.7 79.1

Manual Integrations

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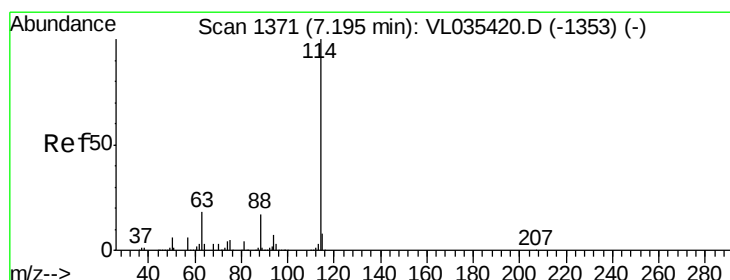
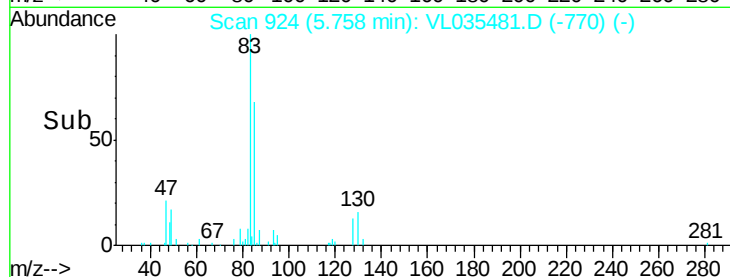
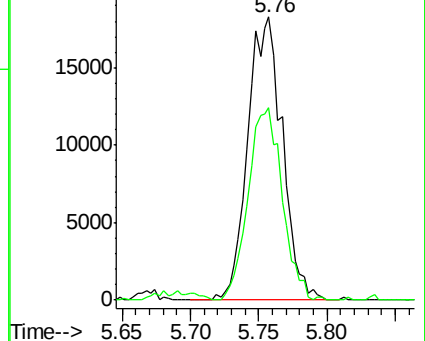
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. -0.01 min

Lab File: VL035481.D

Acq: 20 Aug 2020 19:08

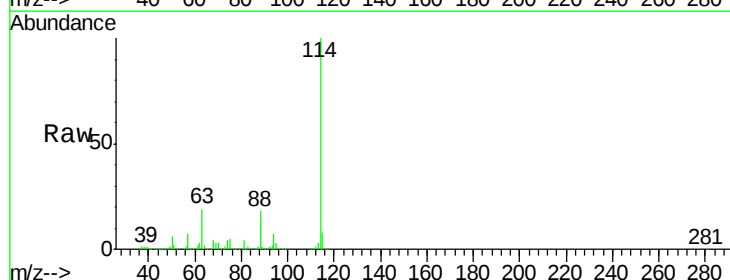
Tgt Ion: 114 Resp: 4943357

Ion Ratio Lower Upper

114 100

63 17.4 23.1 34.7#

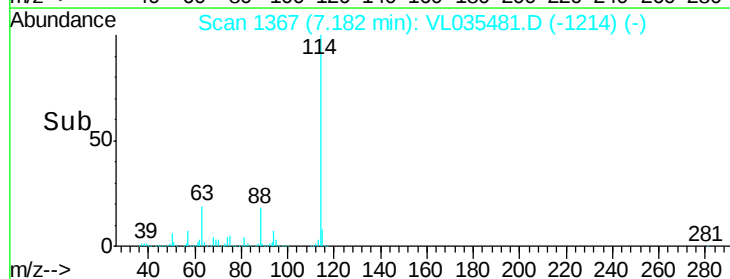
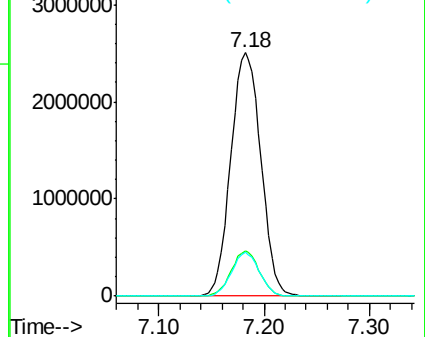
88 16.7 15.9 23.9

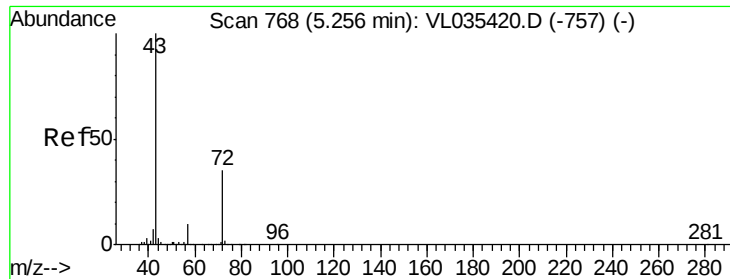


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





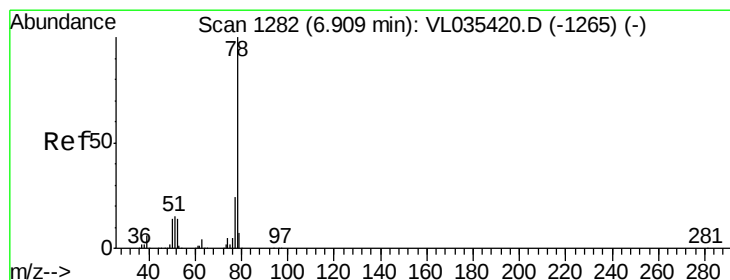
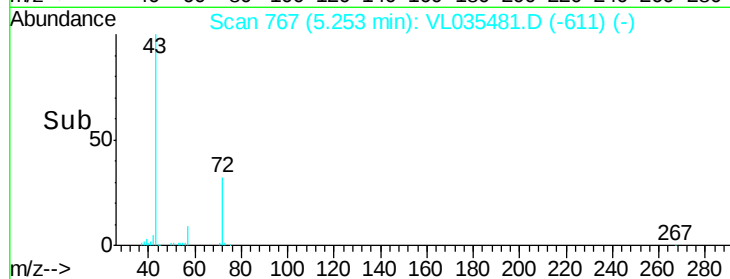
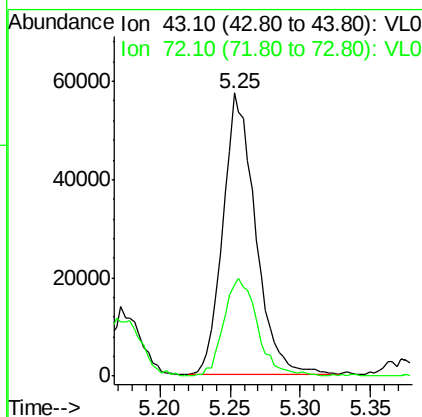
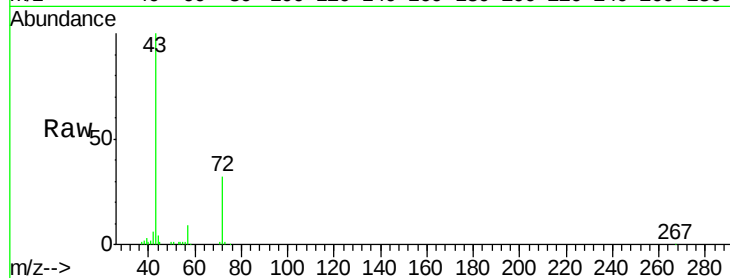
#34
2-Butanone
Concen: 0.557 ppbv
RT: 5.25 min Scan# 767
Delta R.T. 0.00 min
Lab File: VL035481.D
Acq: 20 Aug 2020 19:08

Instrument :
MSVOA_L
ClientSampleId :
SSMP-4DL

Tot Ion	Ratio	Lower	Upper
43	100		
72	36.6	17.6	26.4#

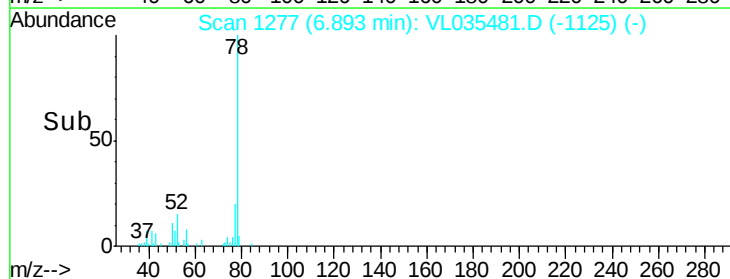
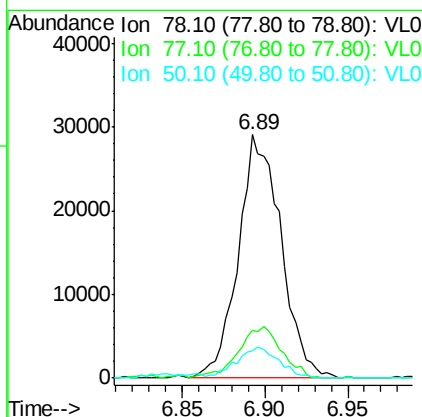
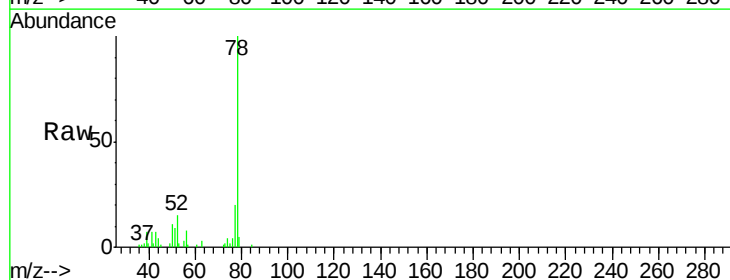
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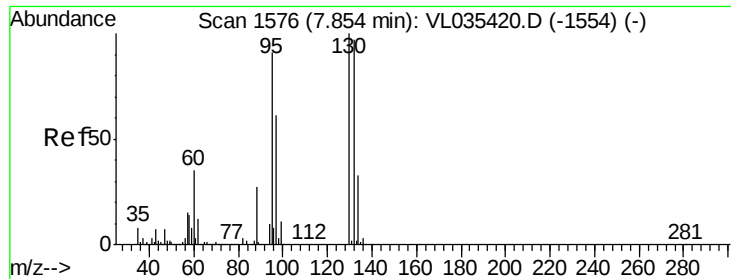
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#36
Benzene
Concen: 0.143 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. -0.01 min
Lab File: VL035481.D
Acq: 20 Aug 2020 19:08

Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.8	19.6	29.4
50	11.0	16.3	24.5#





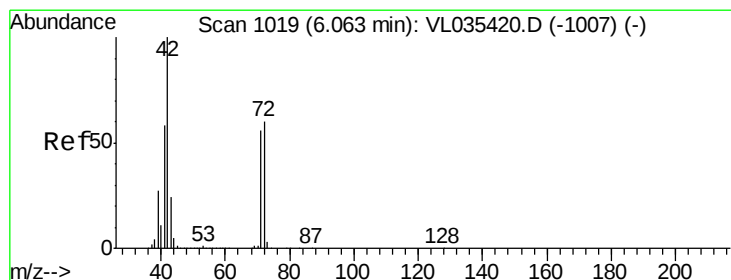
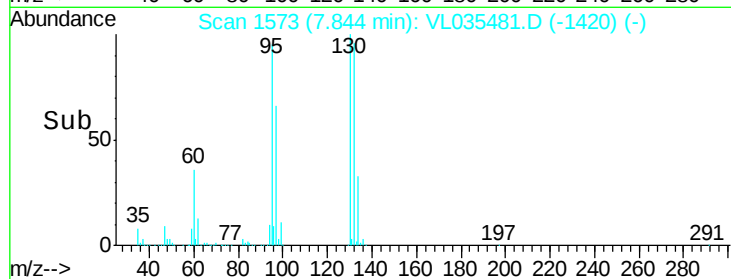
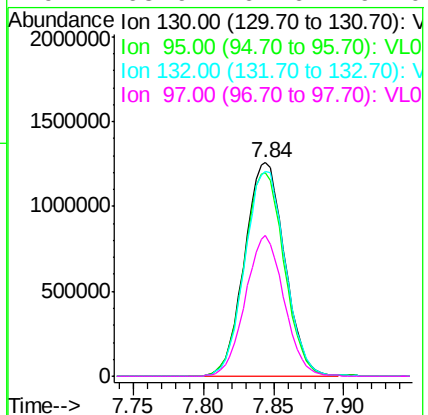
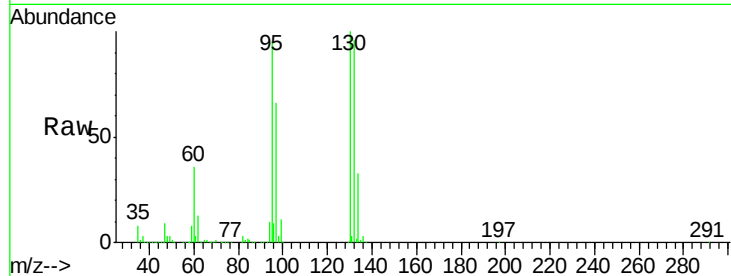
#38
 Trichloroethene
 Concen: 12.428 ppbv
 RT: 7.84 min Scan# 1573
 Delta R.T. -0.01 min
 Lab File: VL035481.D
 Acq: 20 Aug 2020 19:08

Instrument :
 MSVOA_L
 ClientSampleId :
 SSMP-4DL

Tot Ion	Ratio	Lower	Upper
130	100		
95	95.5	95.8	143.8#
132	96.2	74.3	111.5
97	65.9	62.6	94.0

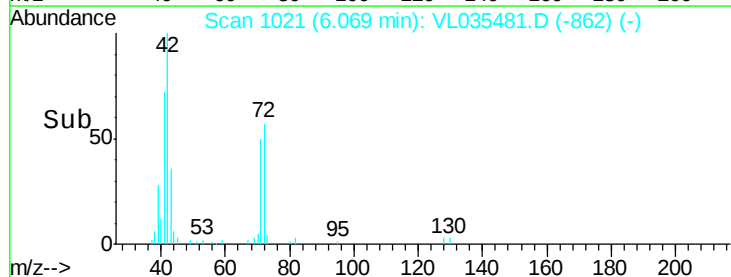
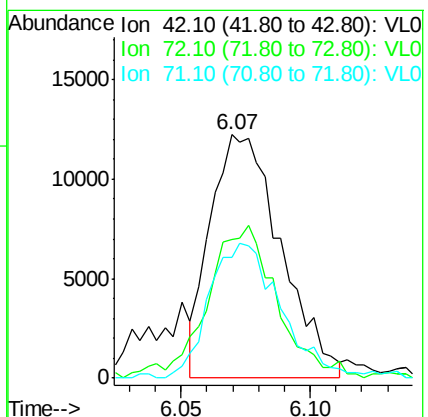
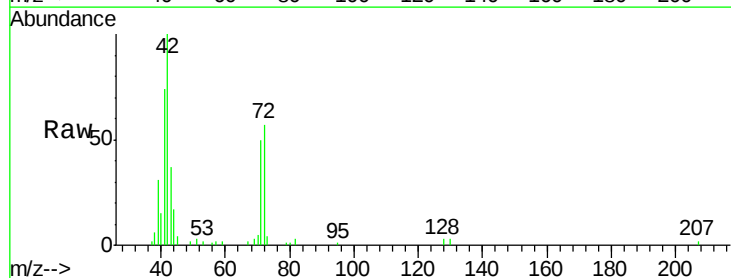
Manual Integrations
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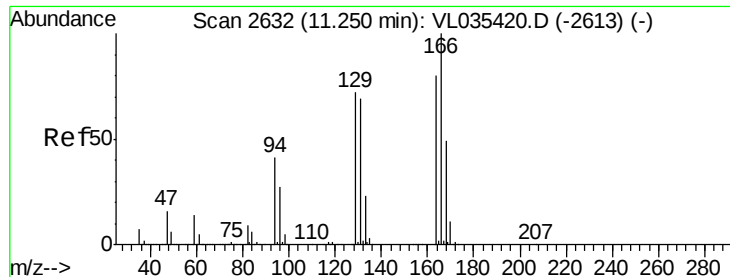
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#41
 Tetrahydrofuran
 Concen: 0.255 ppbv m
 RT: 6.07 min Scan# 1021
 Delta R.T. 0.01 min
 Lab File: VL035481.D
 Acq: 20 Aug 2020 19:08

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	29.4	44.2#
71	0.0	28.9	43.3#





#52

Tetrachloroethene

Concen: 6.859 ppbv

RT: 11.24 min Scan# 2628

Delta R.T. -0.01 min

Lab File: VL035481.D

Acq: 20 Aug 2020 19:08

Instrument :

MSVOA_L

ClientSampleId :

SSMP-4DL

Tot Ion:164 Resp: 1517992

Ion Ratio Lower Upper

164 100

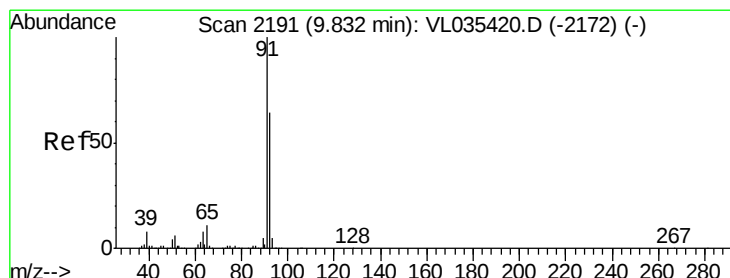
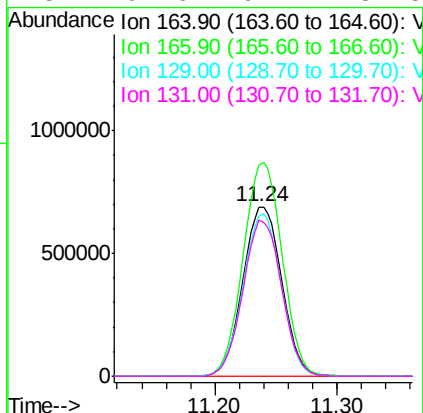
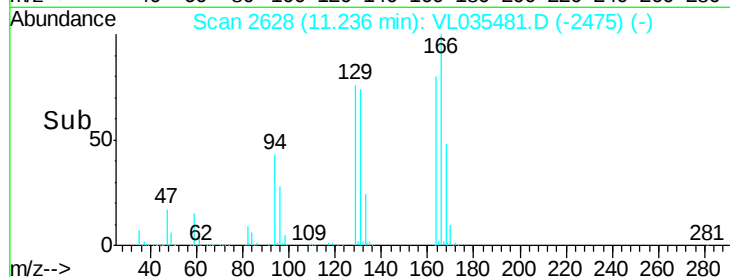
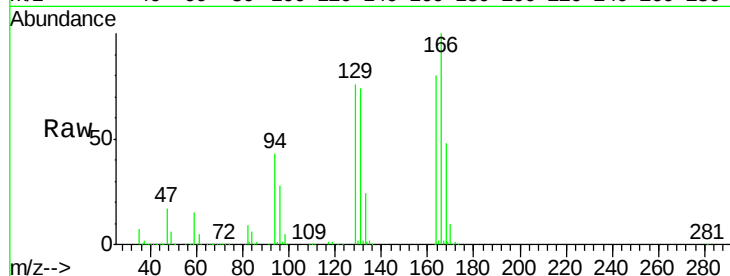
166 124.6 103.4 155.0

129 94.5 90.2 135.4

131 92.6 91.7 137.5

Manual Integrations
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#53

Toluene

Concen: 0.799 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.00 min

Lab File: VL035481.D

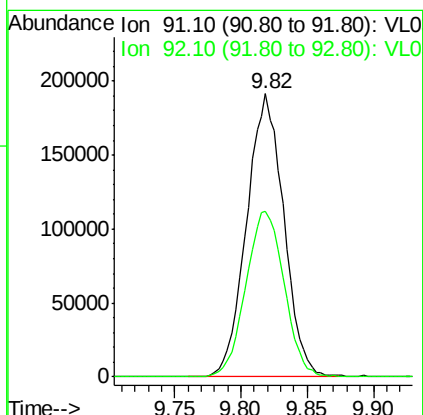
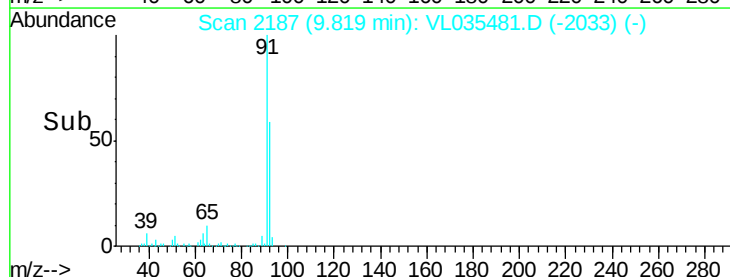
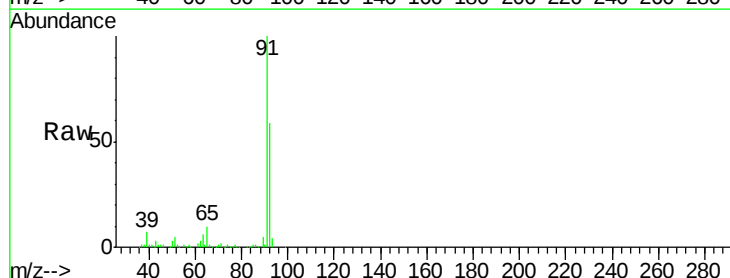
Acq: 20 Aug 2020 19:08

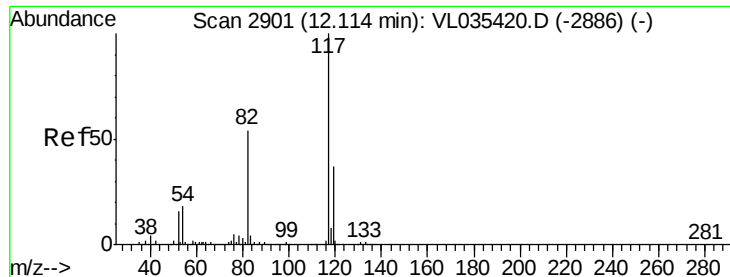
Tgt Ion: 91 Resp: 373439

Ion Ratio Lower Upper

91 100

92 60.7 49.1 73.7





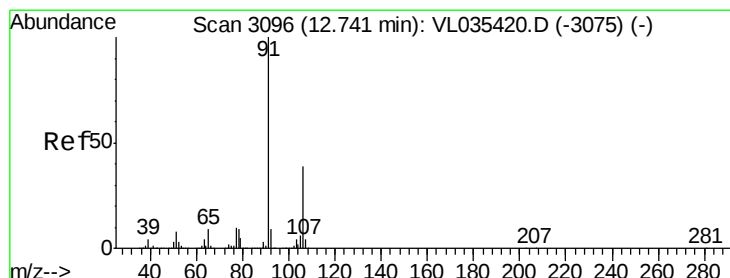
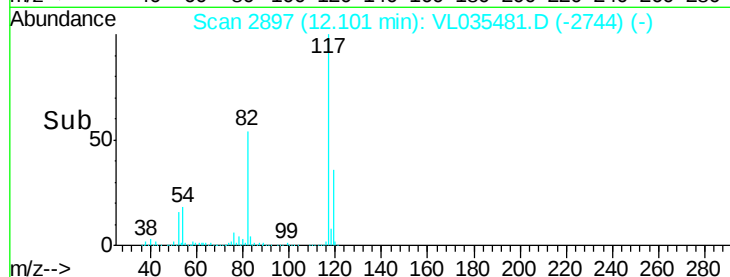
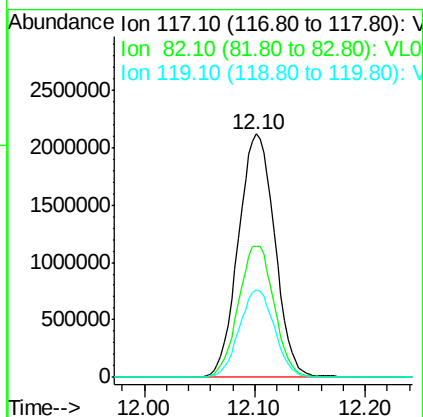
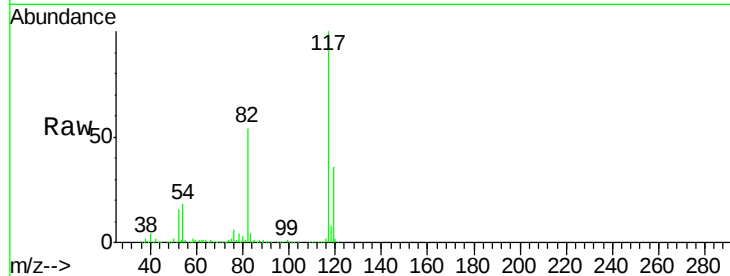
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. -0.01 min
Lab File: VL035481.D
Acq: 20 Aug 2020 19:08

Instrument :
MSVOA_L
ClientSampleId :
SSMP-4DL

Tot Ion:117 Resp: 4840472
Ion Ratio Lower Upper
117 100
82 53.1 57.4 86.0#
119 35.0 28.4 42.6

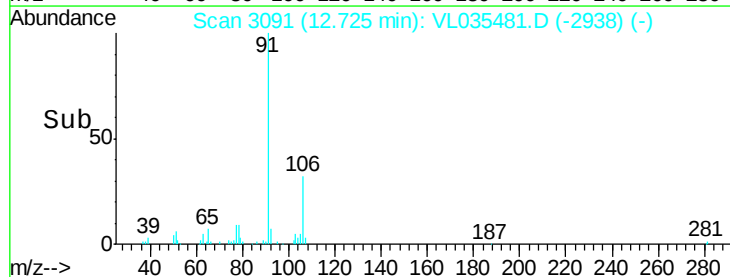
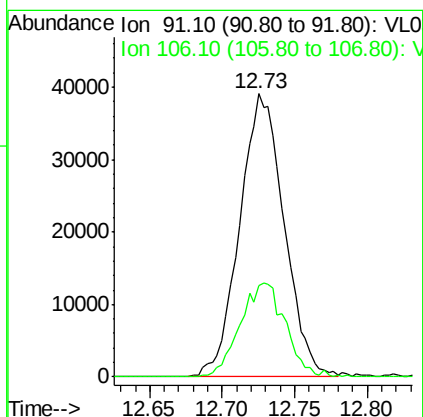
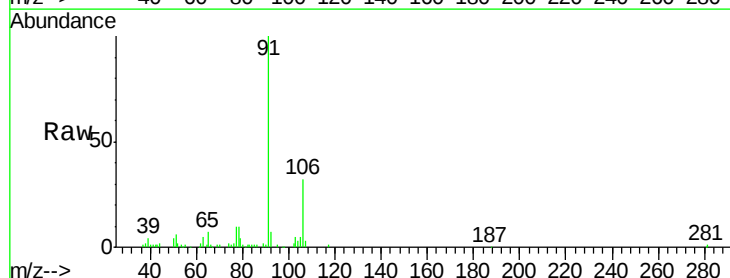
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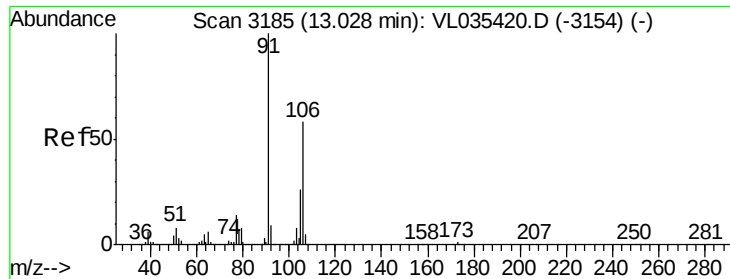
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#58
Ethyl Benzene
Concen: 0.142 ppbv
RT: 12.73 min Scan# 3091
Delta R.T. -0.01 min
Lab File: VL035481.D
Acq: 20 Aug 2020 19:08

Tgt Ion: 91 Resp: 83233
Ion Ratio Lower Upper
91 100
106 32.4 24.1 36.1





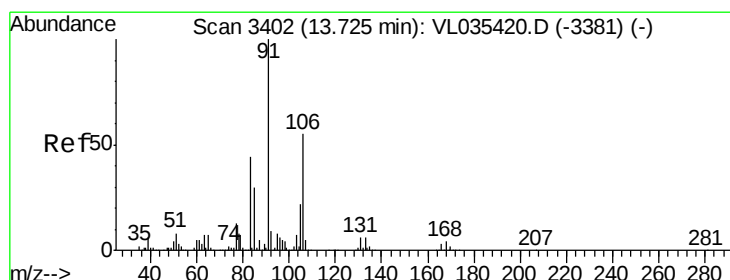
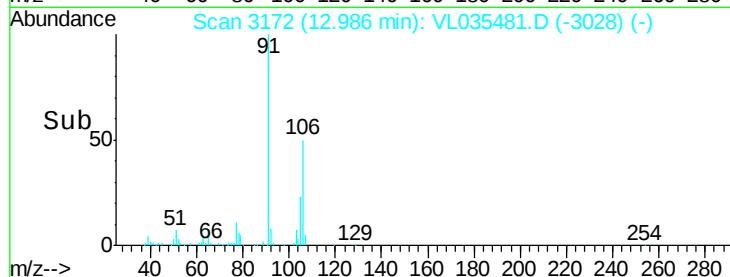
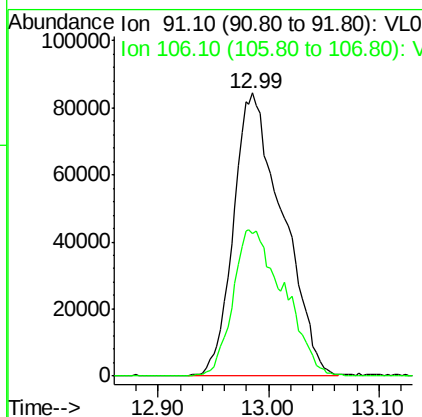
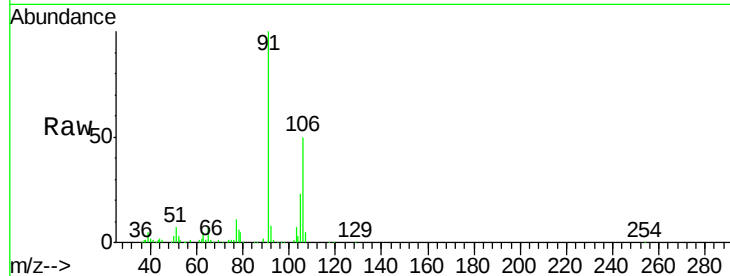
#59
m/p-Xylene
Concen: 0.526 ppbv
RT: 12.99 min Scan# 3172
Delta R.T. -0.04 min
Lab File: VL035481.D
Acq: 20 Aug 2020 19:08

Instrument :
MSVOA_L
ClientSampled :
SSMP-4DL

Tot Ion: 91 Resp: 259886
Ion Ratio Lower Upper
91 100
106 53.4 34.0 51.0#

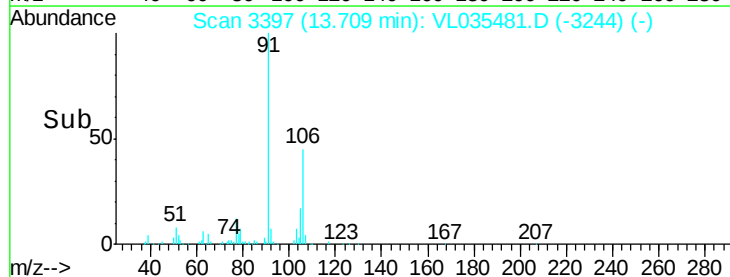
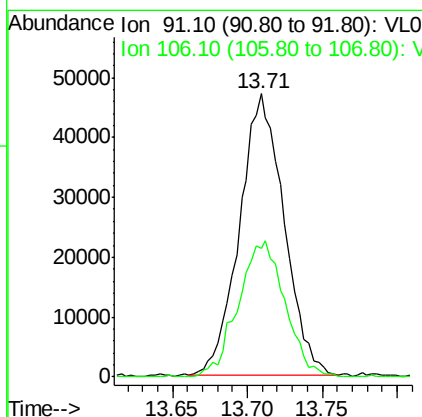
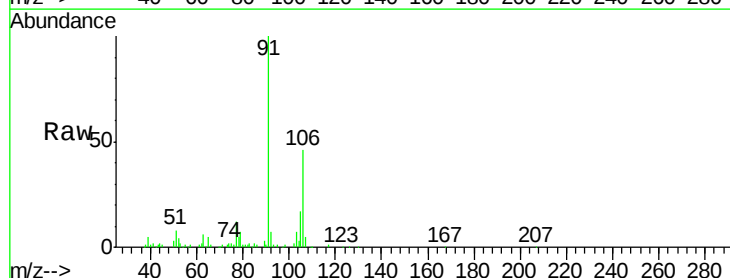
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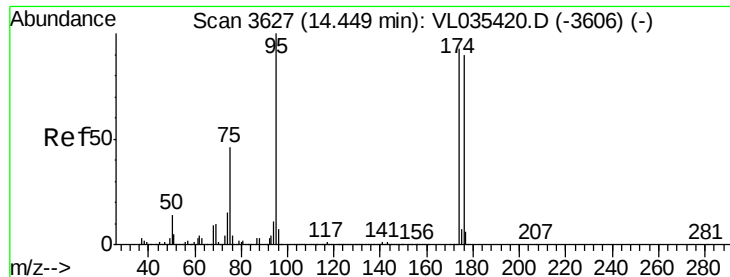
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#60
o-Xylene
Concen: 0.203 ppbv
RT: 13.71 min Scan# 3397
Delta R.T. -0.01 min
Lab File: VL035481.D
Acq: 20 Aug 2020 19:08

Tgt Ion: 91 Resp: 97325
Ion Ratio Lower Upper
91 100
106 50.7 21.8 65.3





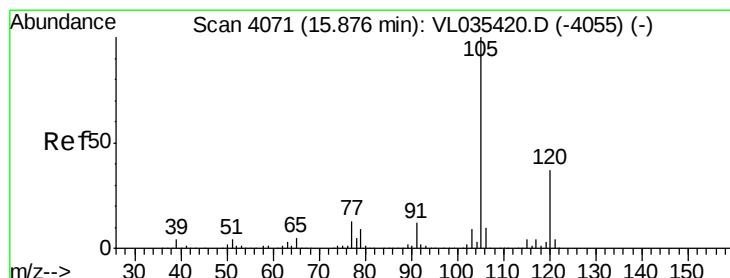
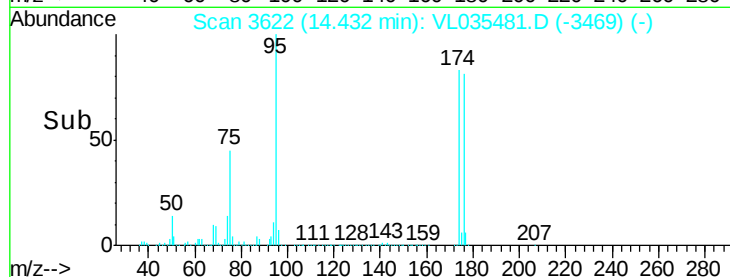
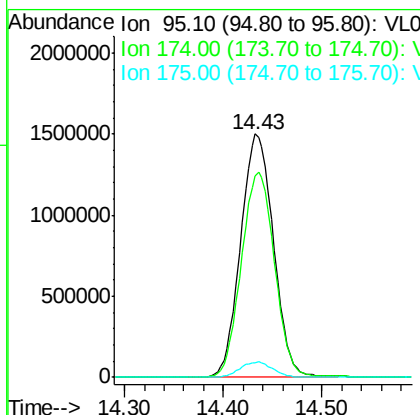
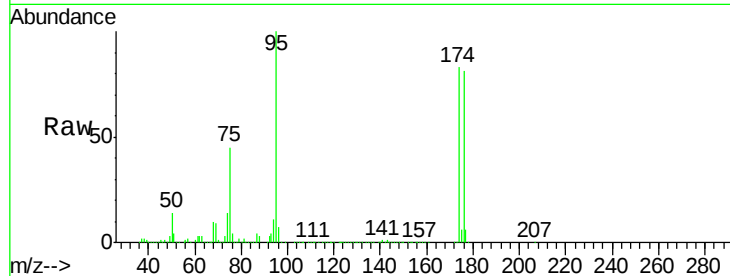
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.190 ppbv
 RT: 14.43 min Scan# 3622
 Delta R.T. -0.01 min
 Lab File: VL035481.D
 Acq: 20 Aug 2020 19:08

Instrument :
 MSVOA_L
 ClientSampleId :
 SSMP-4DL

Tot Ion: 95 Resp: 3453217
 Ion Ratio Lower Upper
 95 100
 174 86.1 44.0 66.0#
 175 6.3 3.2 4.8#

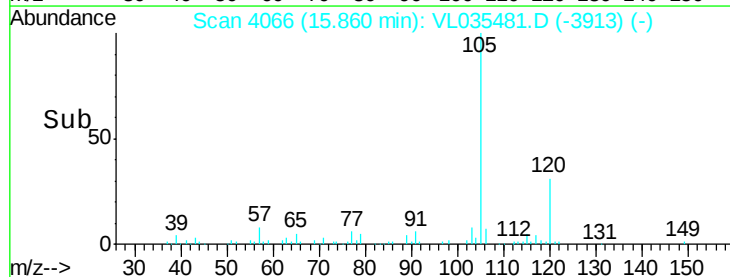
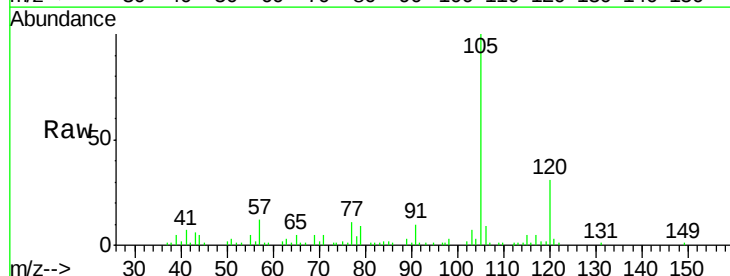
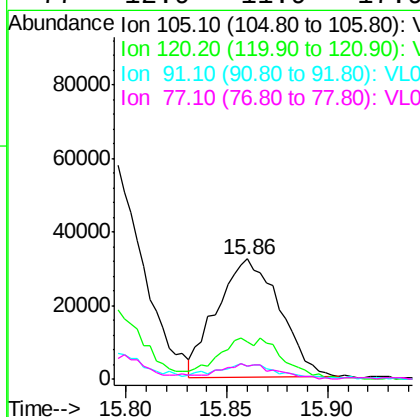
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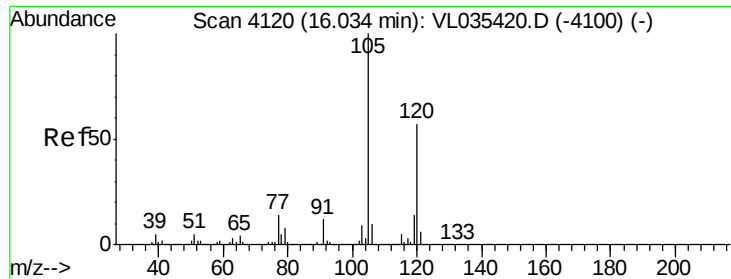
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#72
 4-Ethyltoluene
 Concen: 0.110 ppbv
 RT: 15.86 min Scan# 4066
 Delta R.T. -0.01 min
 Lab File: VL035481.D
 Acq: 20 Aug 2020 19:08

Tgt Ion: 105 Resp: 69523
 Ion Ratio Lower Upper
 105 100
 120 35.4 22.7 34.1#
 91 13.4 10.8 16.2
 77 12.9 11.9 17.9





#73

1,3,5-Trimethylbenzene

Concen: 0.123 ppbv m

RT: 16.02 min Scan# 4116

Delta R.T. -0.01 min

Lab File: VL035481.D

Acq: 20 Aug 2020 19:08

Instrument :

MSVOA_L

ClientSampleId :

SSMP-4DL

Tot Ion:105 Resp: 72153

Ion Ratio Lower Upper

105 100

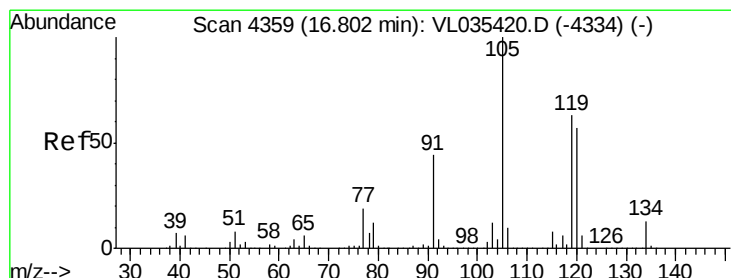
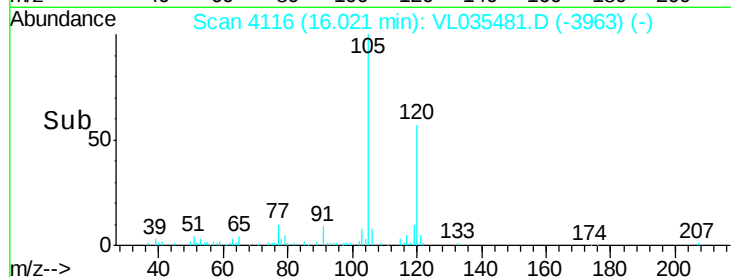
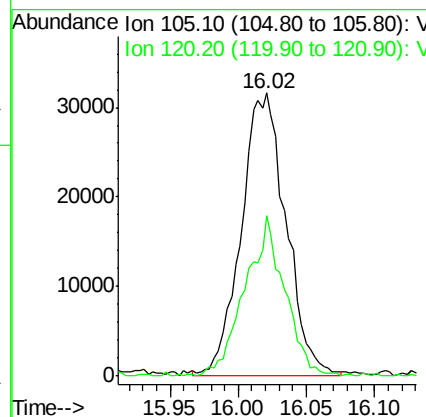
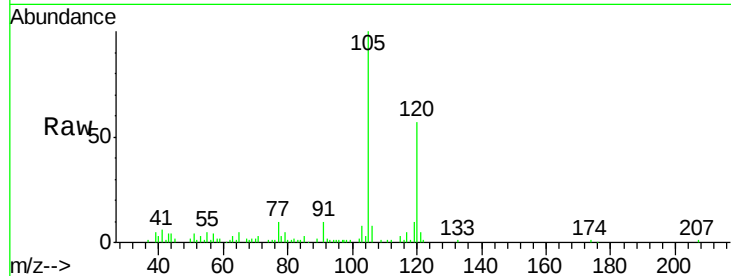
120 56.5 35.6 53.4#

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#74

1,2,4-Trimethylbenzene

Concen: 0.464 ppbv

RT: 16.78 min Scan# 4353

Delta R.T. -0.01 min

Lab File: VL035481.D

Acq: 20 Aug 2020 19:08

Tgt Ion:105 Resp: 295511

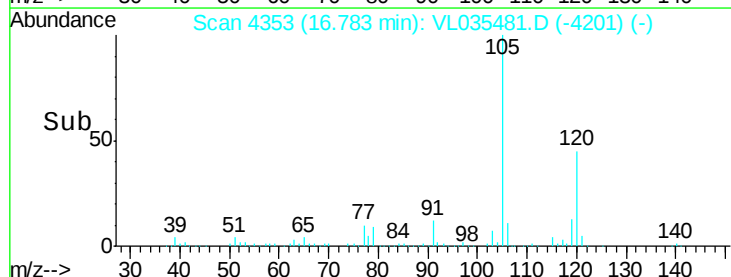
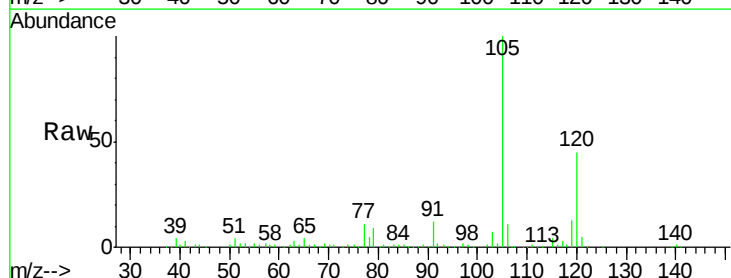
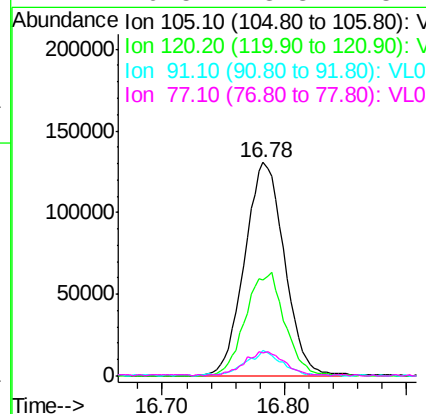
Ion Ratio Lower Upper

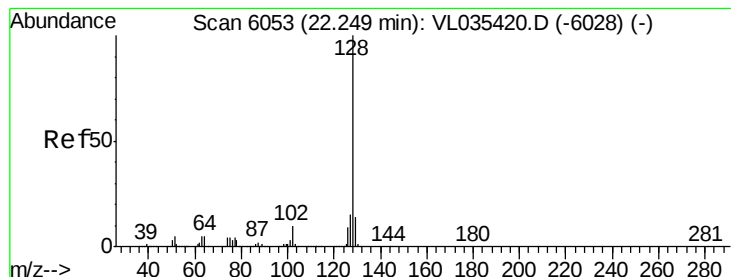
105 100

120 45.0 37.8 56.8

91 11.7 40.0 60.0#

77 10.5 18.8 28.2#





#79

Naphthalene

Concen: 0.121 ppbv

RT: 22.23 min Scan# 6047

Delta R.T. -0.01 min

Lab File: VL035481.D

Acq: 20 Aug 2020 19:08

Instrument :

MSVOA_L

ClientSampleId :

SSMP-4DL

Tot Ion:	128	Resp:	108717
Ion Ratio	Lower	Upper	
128	100		
127	9.7	11.4	17.0#
129	10.8	9.5	14.3

Manual Integrations
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