

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080620\
 Data File : VL035348.D
 Acq On : 6 Aug 2020 13:44
 Operator : SY/AP
 Sample : L3557-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Manual Integrations
 APPROVED

MMDadoda
 8/7/2020 12:53:39 PM

Quant Time: Aug 07 10:07:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 0
 QLast Update : Wed Aug 05 13:04:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1289899	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3206591	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	3073918	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.43	95	2552637	9.96	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	47646m	0.278	ppbv	
3) Chlorodifluoromethane	2.93	51	50197m	0.341	ppbv	
4) Chloromethane	3.08	50	43102	0.517	ppbv #	80
9) Propene	2.97	41	25479	0.486	ppbv	84
10) Heptane	8.12	43	17393	0.130	ppbv	98
11) Trichlorofluoromethane	3.91	101	51909	0.234	ppbv	94
13) Ethanol	3.56	45	473018	26.139	ppbv	98
15) Acetone	3.81	43	975929	5.328	ppbv	97
19) Isopropyl Alcohol	3.93	45	87720m	0.755	ppbv	
20) Methylene Chloride	4.31	84	601906	8.058	ppbv	96
26) Hexane	5.66	57	451385	3.739	ppbv #	49
27) Carbon Disulfide	4.52	76	18584m	0.110	ppbv	
34) 2-Butanone	5.22	43	72789	0.461	ppbv	100
35) Carbon Tetrachloride	7.01	117	15090m	0.068	ppbv	
36) Benzene	6.88	78	24237m	0.112	ppbv	
38) Trichloroethene	7.83	130	7682m	0.077	ppbv	
44) 2,2,4-Trimethylpentane	7.86	57	42101m	0.109	ppbv	
52) Tetrachloroethene	11.24	164	3564m	0.042	ppbv	
53) Toluene	9.81	91	583251	2.476	ppbv	98
59) m/p-Xylene	12.99	91	31116m	0.104	ppbv	
74) 1,2,4-Trimethylbenzene	16.78	105	35517m	0.096	ppbv	

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

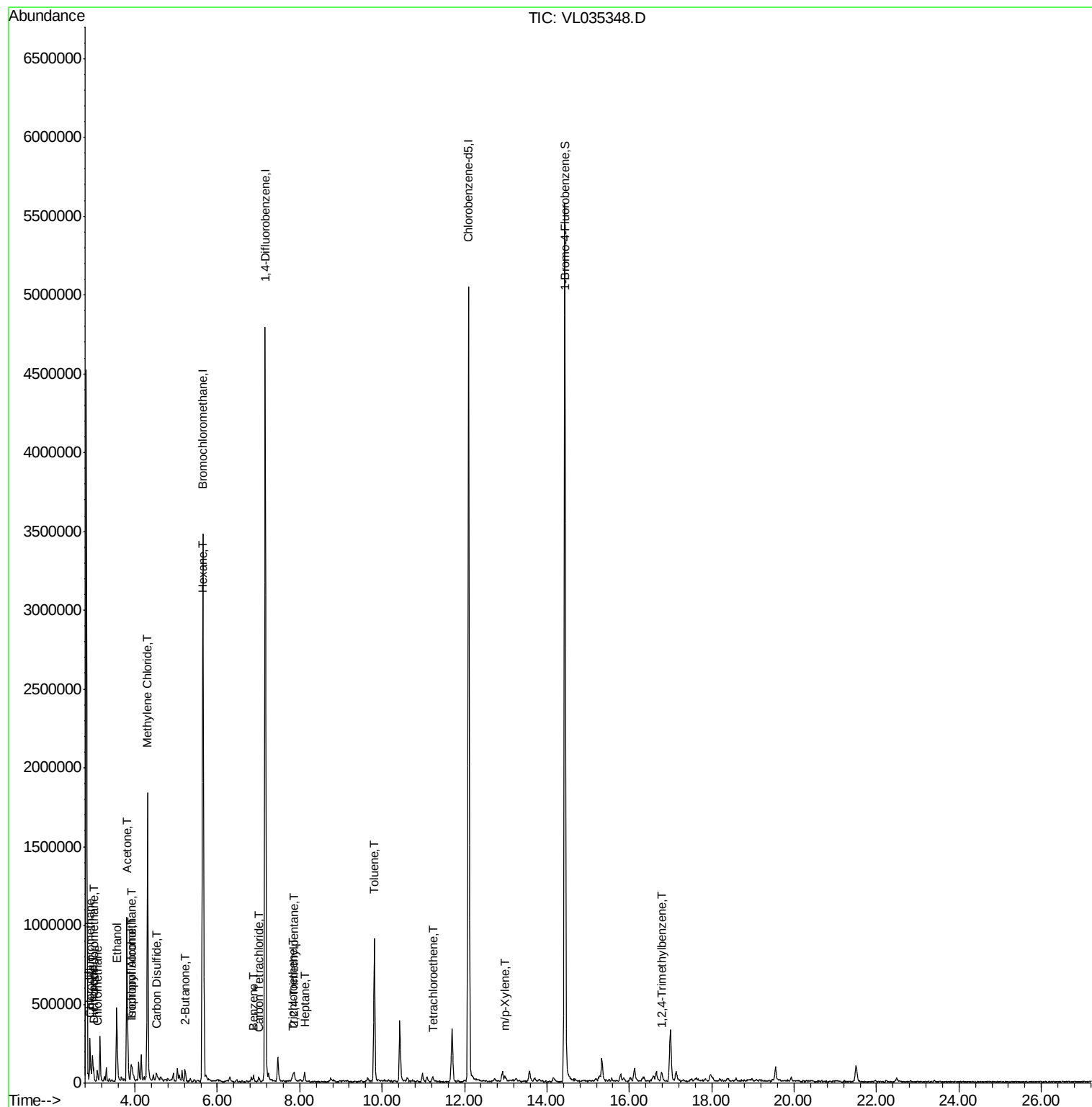
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL080620\
Data File : VL035348.D
Acq On : 6 Aug 2020 13:44
Operator : SY/AP
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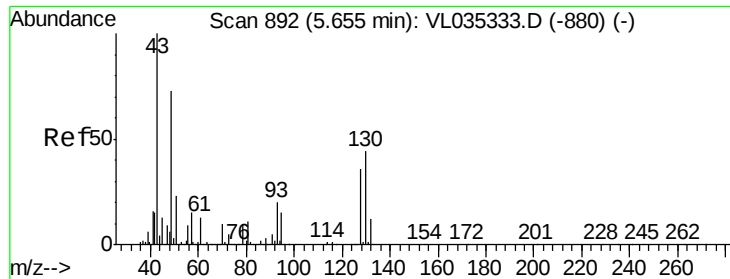
Instrument :
MSVOA_L
ClientSampleId :
AA-1

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Quant Time: Aug 07 10:07:46 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug
QLast Update : Wed Aug 05 13:04:46 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.01 min

Lab File: VL035348.D

Acq: 6 Aug 2020 13:44

Instrument :

MSVOA_L

ClientSampled :

AA-1

Tot Ion: 49 Resp: 1289899

Ion Ratio Lower Upper

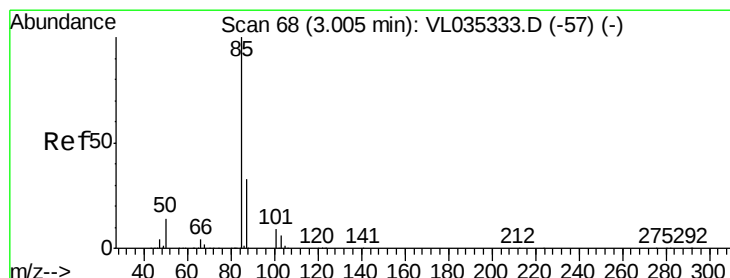
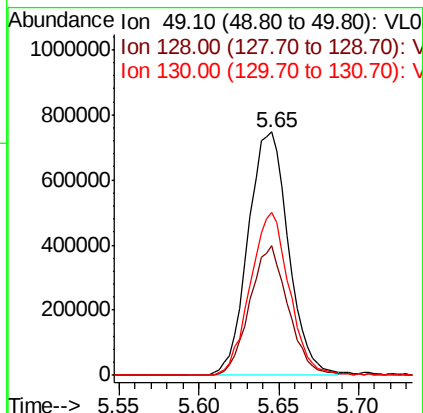
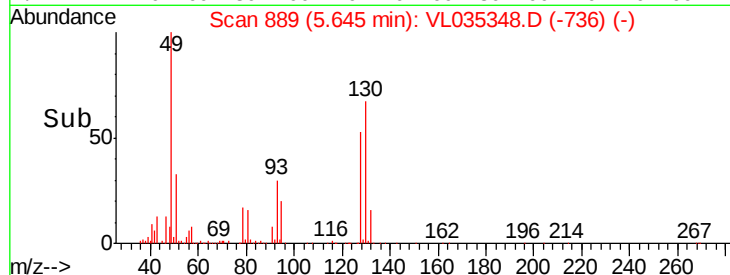
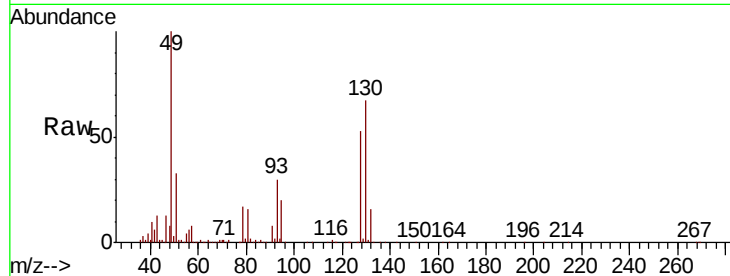
49 100

128 51.0 25.4 76.0

130 65.2 32.1 96.3

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#2

Dichlorodifluoromethane

Concen: 0.278 ppbv m

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL035348.D

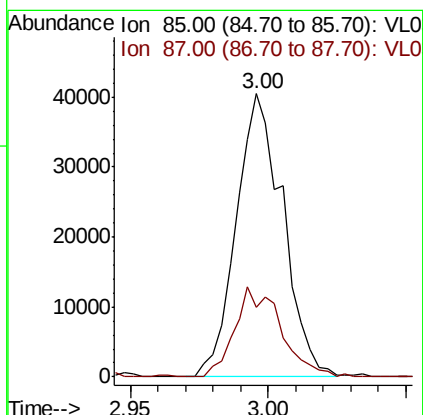
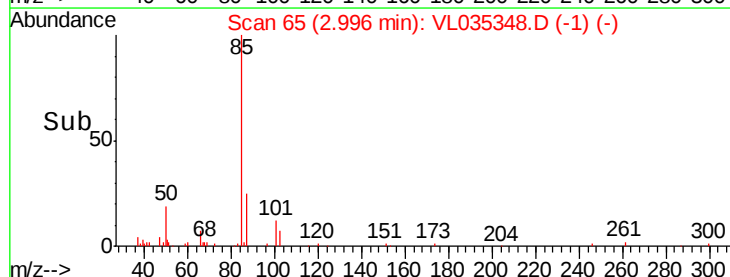
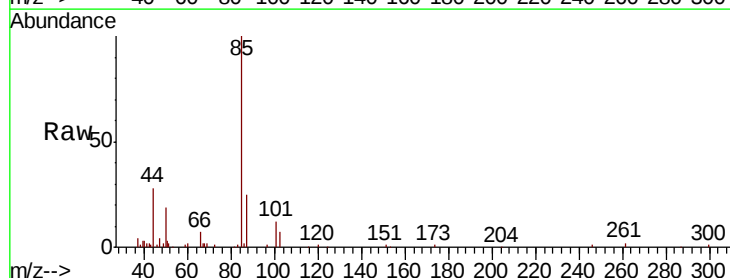
Acq: 6 Aug 2020 13:44

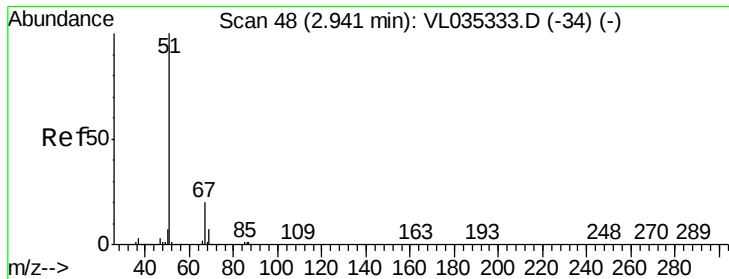
Tgt Ion: 85 Resp: 47646

Ion Ratio Lower Upper

85 100

87 24.6 26.7 40.1#





#3

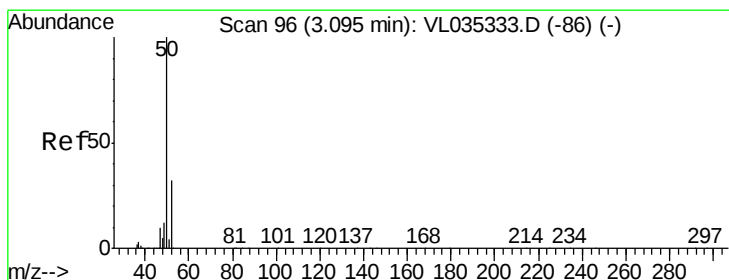
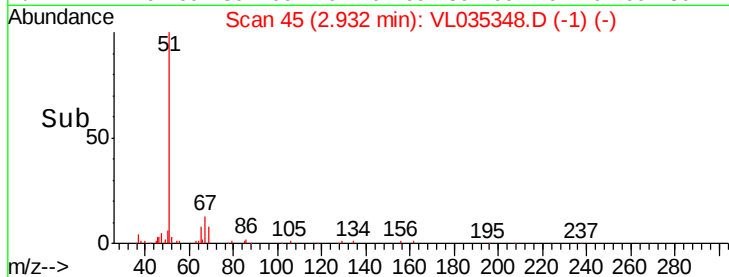
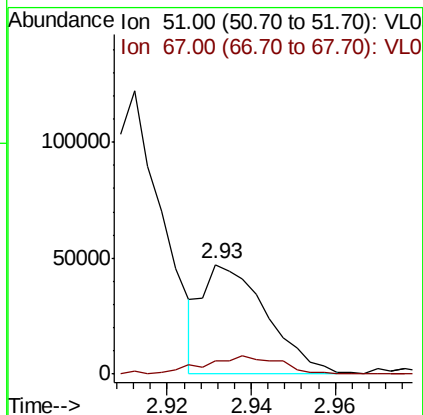
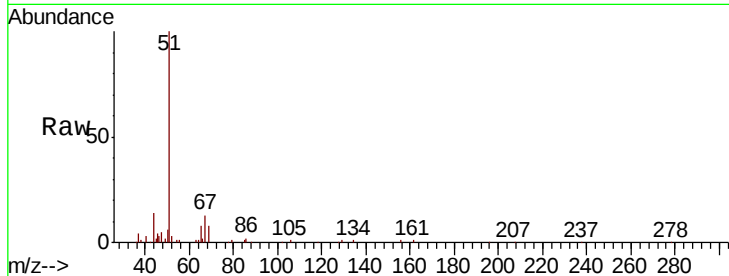
Chlorodifluoromethane
Concen: 0.341 ppbv
RT: 2.93 min Scan# 45
Delta R.T. -0.01 min
Lab File: VL035348.D
Acq: 6 Aug 2020 13:44

Instrument :
MSVOA_L
ClientSampled :
AA-1

Tot Ion	Ratio	Lower	Upper
51	100		
67	20.3	16.6	25.0

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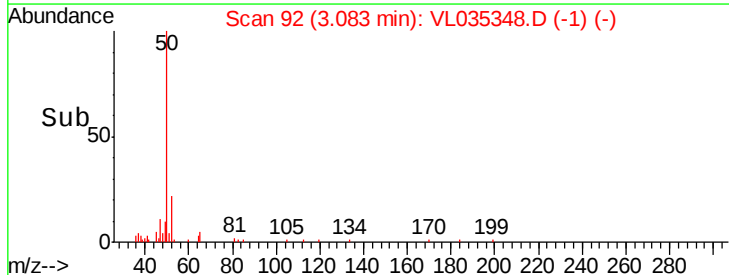
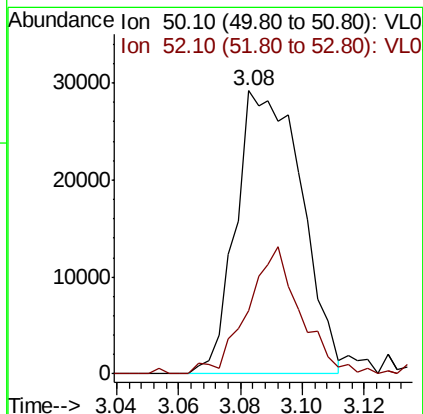
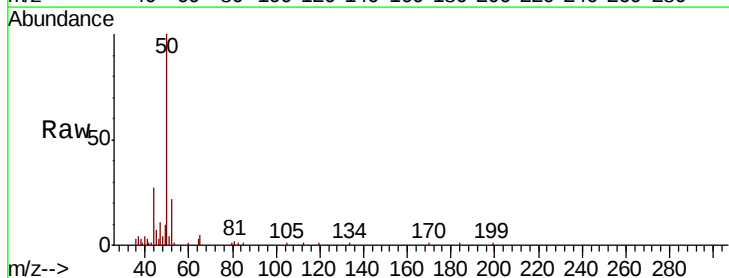
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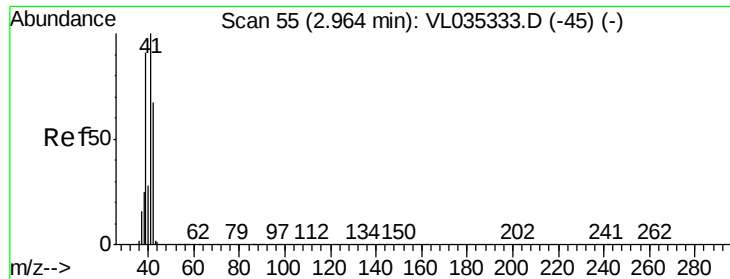


#4

Chloromethane
Concen: 0.517 ppbv
RT: 3.08 min Scan# 92
Delta R.T. -0.01 min
Lab File: VL035348.D
Acq: 6 Aug 2020 13:44

Tgt Ion	Ratio	Lower	Upper
50	100		
52	21.5	26.0	39.0





#9

Propene

Concen: 0.486 ppbv

RT: 2.97 min Scan# 57

Delta R.T. 0.01 min

Lab File: VL035348.D

Acq: 6 Aug 2020 13:44

Instrument :

MSVOA_L

ClientSampleId :

AA-1

Tot Ion: 41 Resp: 25479

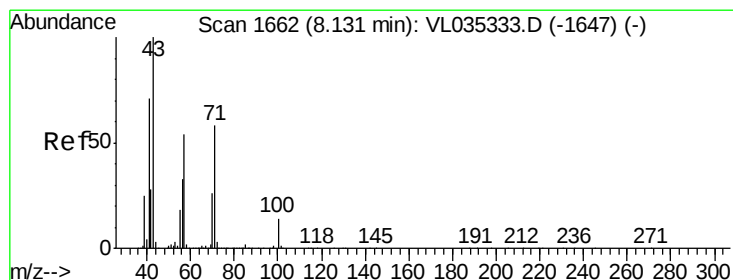
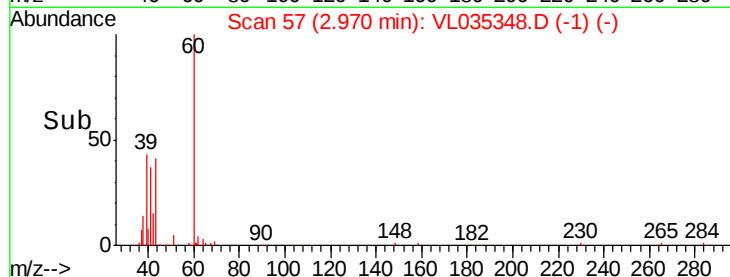
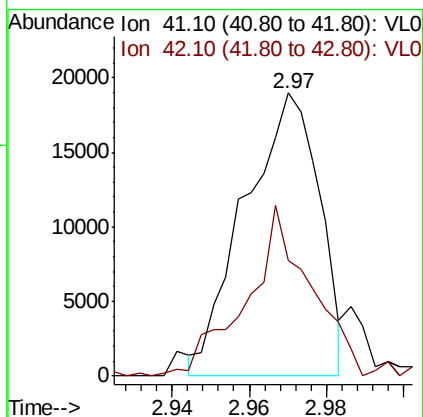
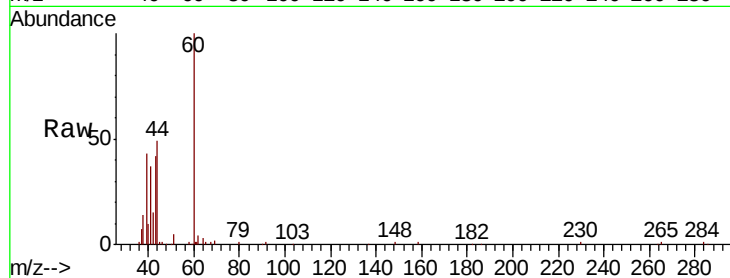
Ion Ratio Lower Upper

41 100

42 55.8 55.3 82.9

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#10

Heptane

Concen: 0.130 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VL035348.D

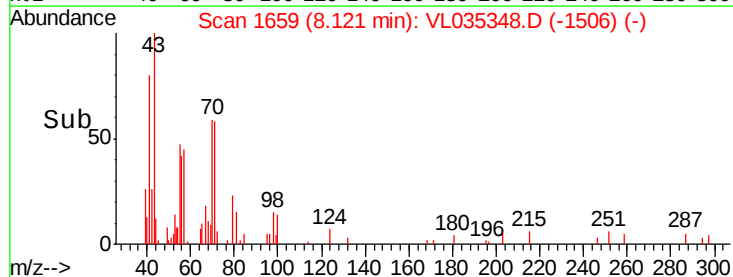
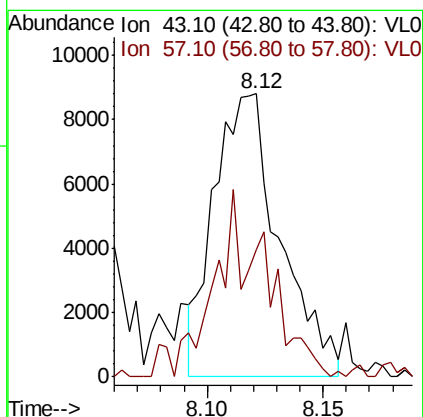
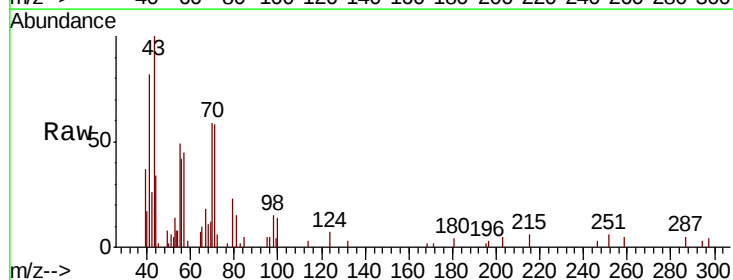
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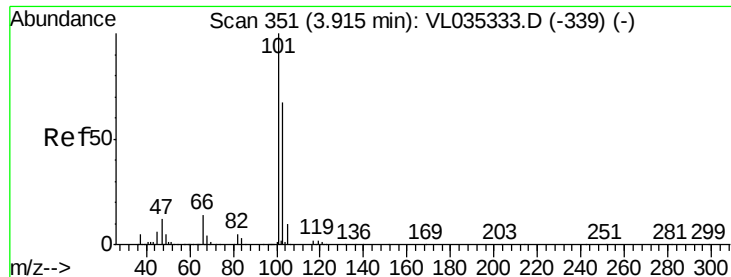
Tgt Ion: 43 Resp: 17393

Ion Ratio Lower Upper

43 100

57 52.7 43.0 64.6





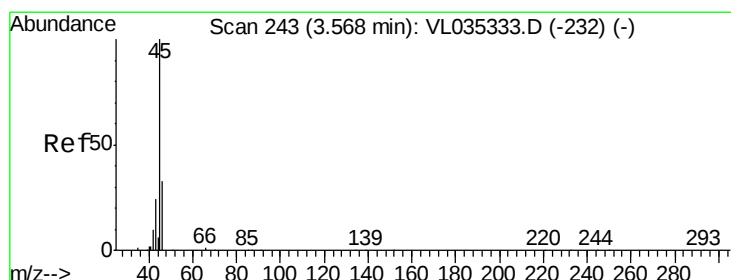
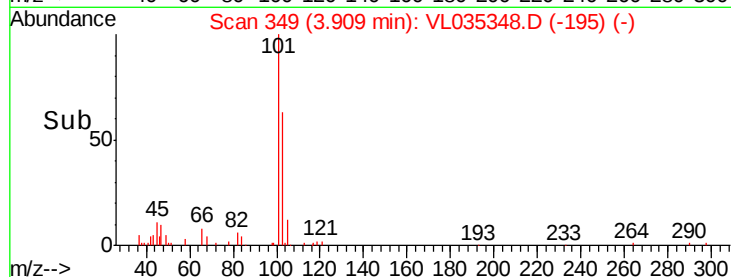
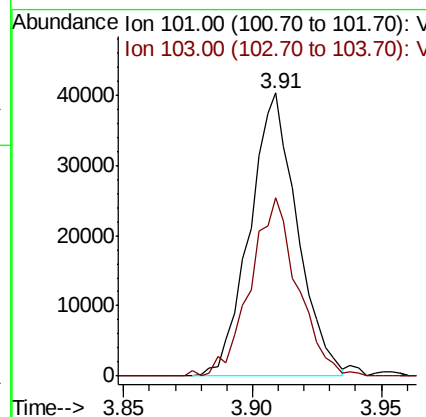
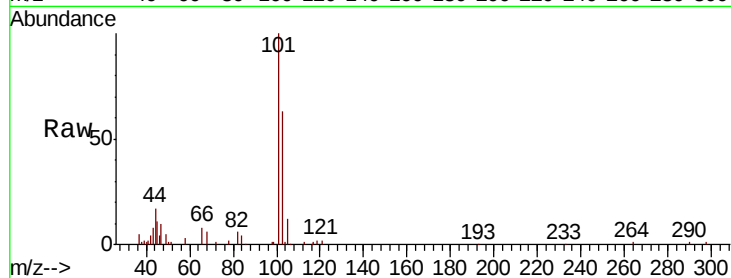
#11
 Trichlorofluoromethane
 Concen: 0.234 ppbv
 RT: 3.91 min Scan# 349
 Delta R.T. -0.01 min
 Lab File: VL035348.D
 Acq: 6 Aug 2020 13:44

Instrument :
 MSVOA_L
 ClientSampled :
 AA-1

Tot Ion	Ratio	Resp	Lower	Upper
101	100	51909		
103	62.1	53.8	80.8	

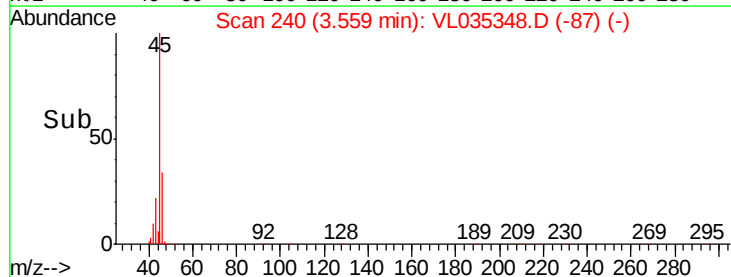
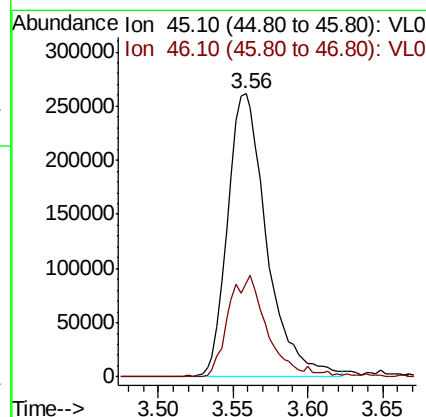
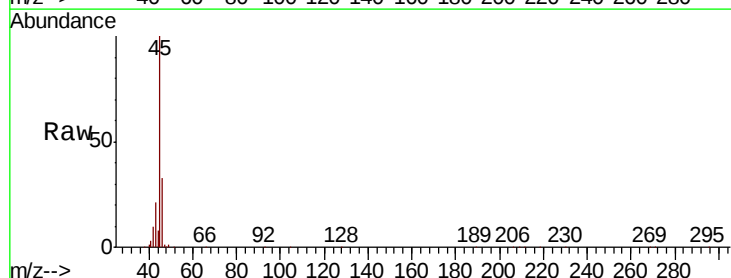
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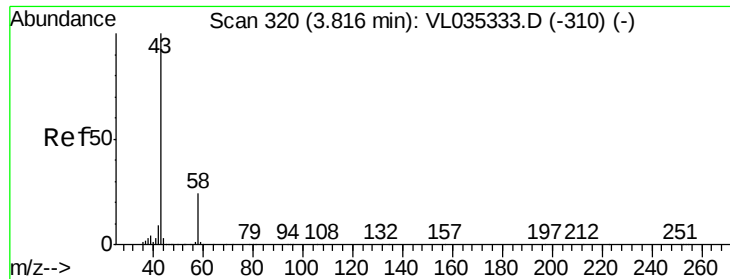
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#13
 Ethanol
 Concen: 26.139 ppbv
 RT: 3.56 min Scan# 240
 Delta R.T. -0.01 min
 Lab File: VL035348.D
 Acq: 6 Aug 2020 13:44

Tgt Ion	Ratio	Resp	Lower	Upper
45	100	473018		
46	37.0	15.2	61.0	





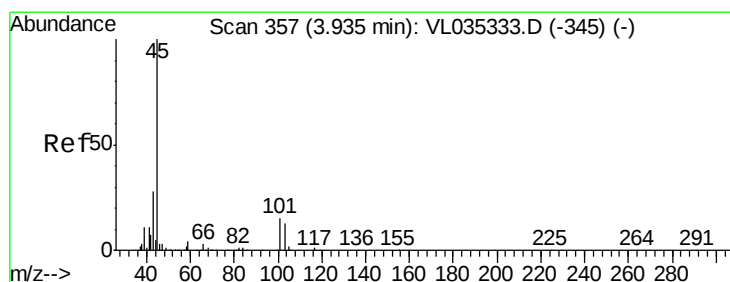
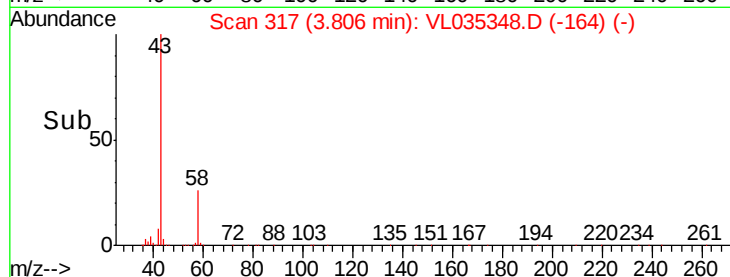
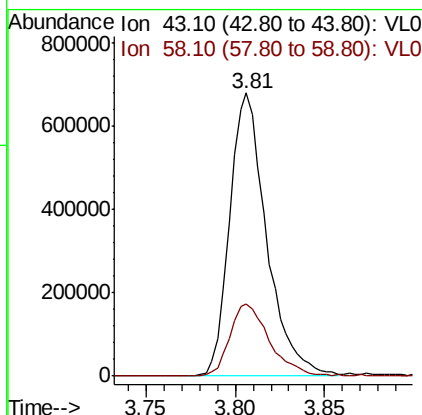
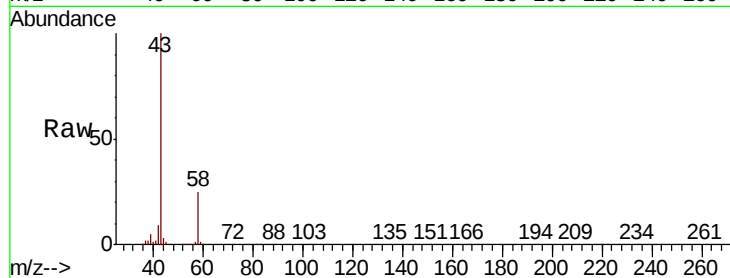
#15
Acetone
Concen: 5.328 ppbv
RT: 3.81 min Scan# 317
Delta R.T. -0.01 min
Lab File: VL035348.D
Acq: 6 Aug 2020 13:44

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tot Ion: 43 Resp: 975929
Ion Ratio Lower Upper
43 100
58 27.6 21.0 31.4

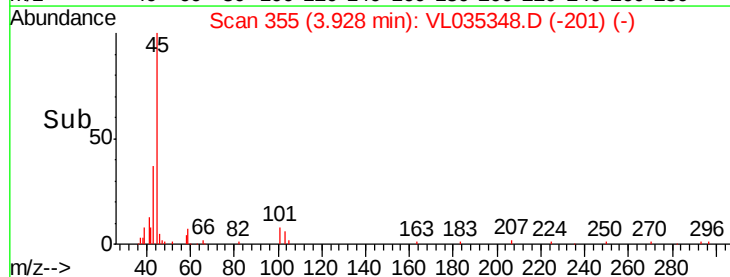
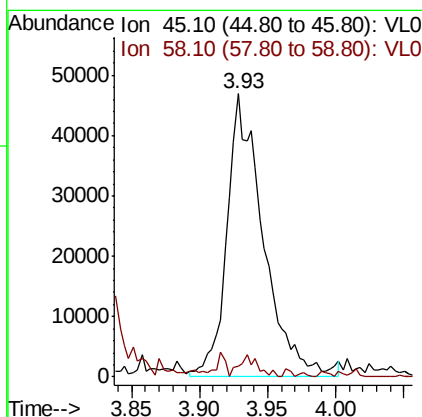
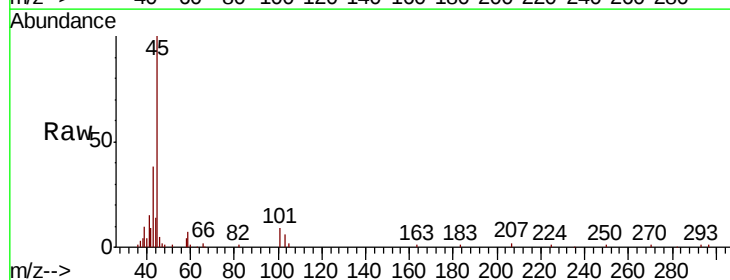
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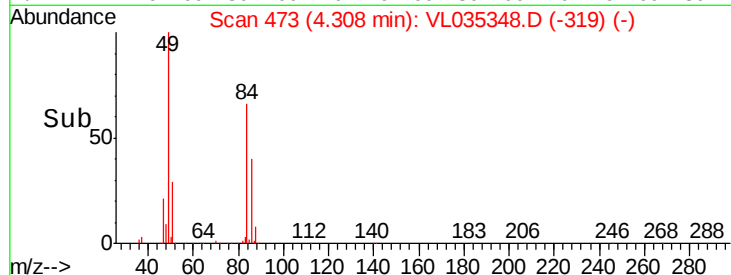
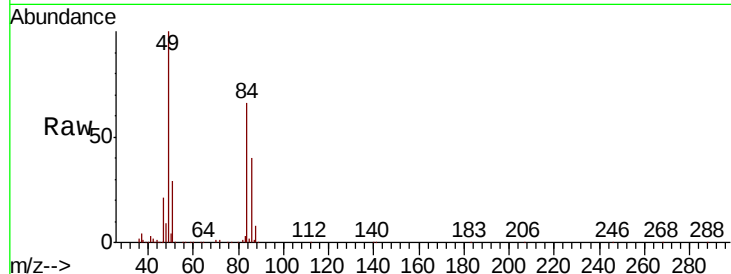
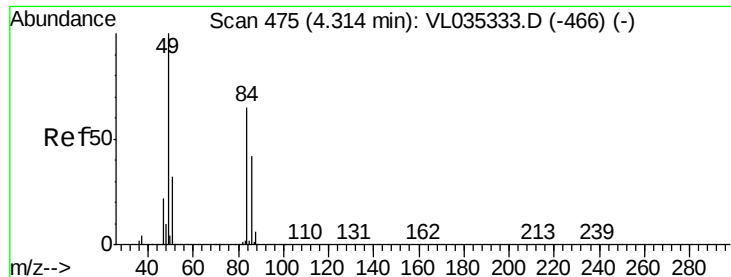
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#19
Isopropyl Alcohol
Concen: 0.755 ppbv m
RT: 3.93 min Scan# 355
Delta R.T. -0.01 min
Lab File: VL035348.D
Acq: 6 Aug 2020 13:44

Tgt Ion: 45 Resp: 87720
Ion Ratio Lower Upper
45 100
58 0.0 1.9 2.9#





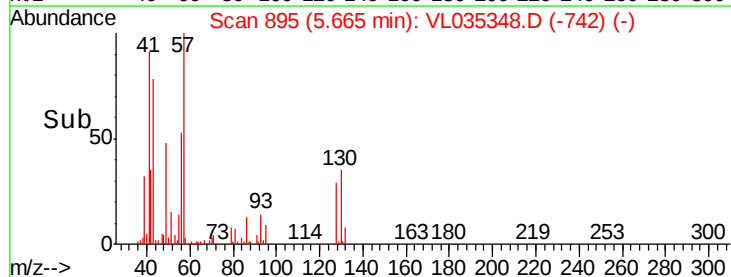
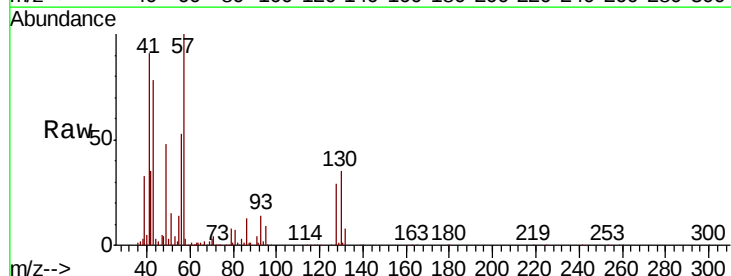
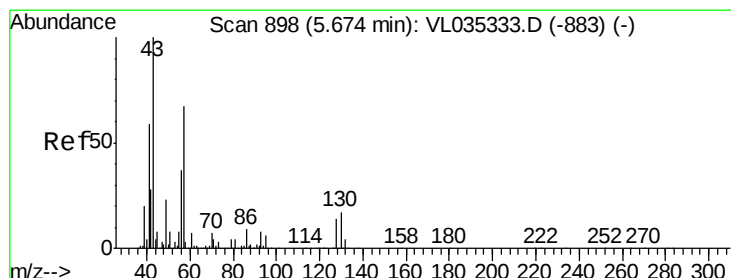
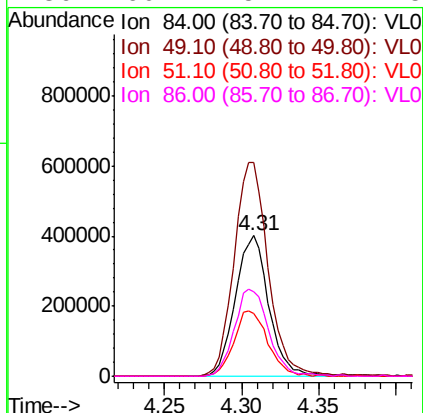
#20
Methvlene Chloride
Concen: 8.058 ppbv
RT: 4.31 min Scan# 473
Delta R.T. -0.01 min
Lab File: VL035348.D
Acq: 6 Aug 2020 13:44

Tot Ion	84	Resp	601906
Ion Ratio	Lower	Upper	
84	100		
49	152.1	122.8	184.2
51	44.4	40.1	60.1
86	60.2	51.7	77.5

Instrument :
MSVOA_L
ClientSampleId :
AA-1

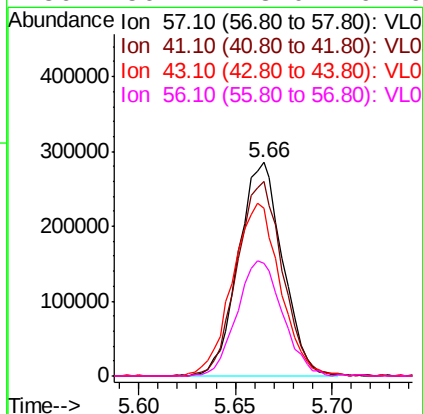
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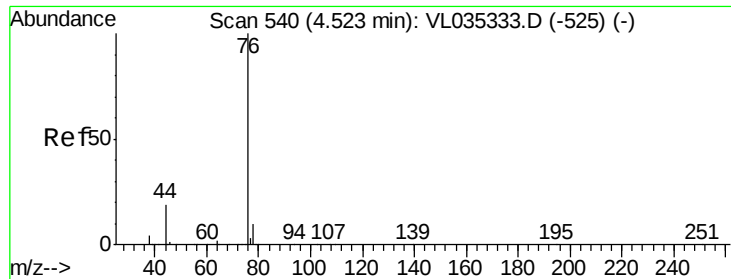
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#26
Hexane
Concen: 3.739 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL035348.D
Acq: 6 Aug 2020 13:44

Tgt Ion	57	Resp	451385
Ion Ratio	Lower	Upper	
57	100		
41	94.7	75.2	112.8
43	88.6	180.6	270.8#
56	56.2	43.0	64.6





#27

Carbon Disulfide

Concen: 0.110 ppbv m

RT: 4.52 min Scan# 538

Delta R.T. -0.01 min

Lab File: VL035348.D

Acq: 6 Aug 2020 13:44

Instrument :

MSVOA_L

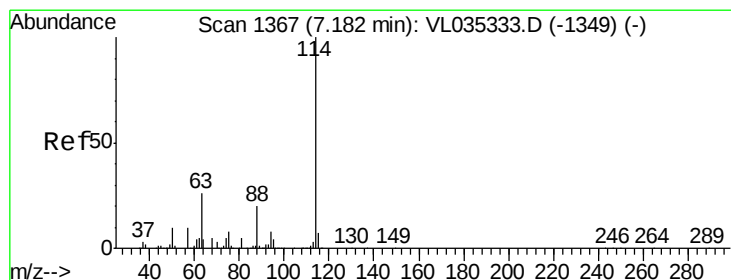
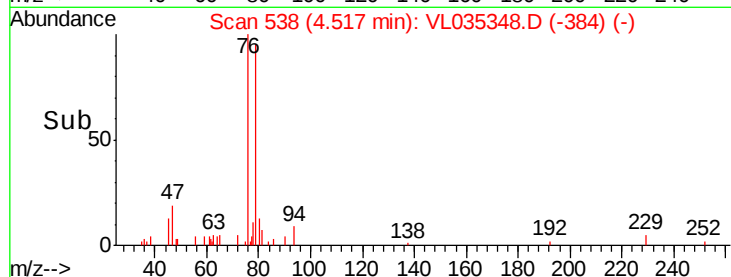
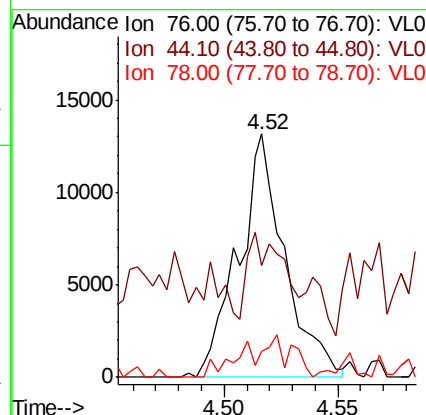
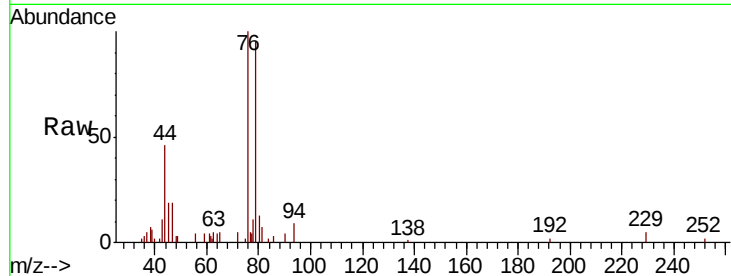
ClientSampled :

AA-1

Tot Ion	Ratio	Lower	Upper
76	100		
44	31.4	15.4	23.2#
78	17.7	7.7	11.5#

Manual Integrations
APPROVED

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8/7/2020 12:53:39 PM



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

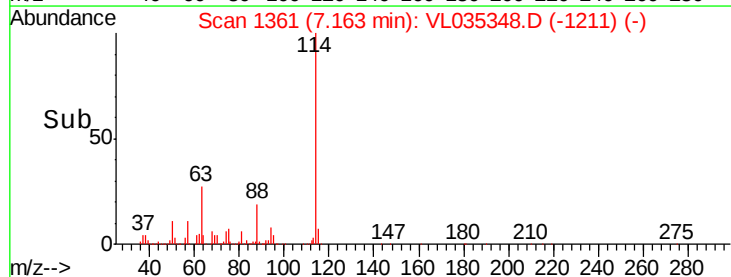
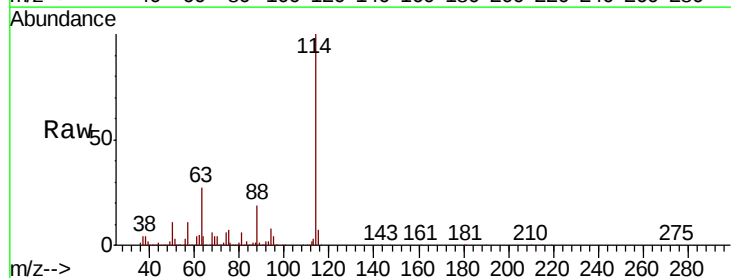
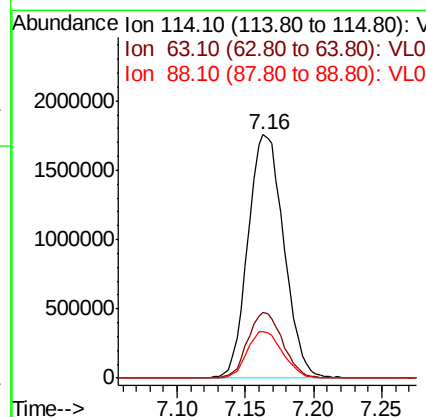
RT: 7.16 min Scan# 1361

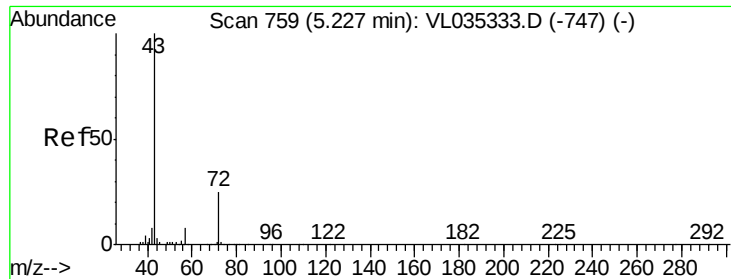
Delta R.T. -0.02 min

Lab File: VL035348.D

Acq: 6 Aug 2020 13:44

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.2	21.3	31.9
88	19.0	15.3	22.9





#34

2-Butanone

Concen: 0.461 ppbv

RT: 5.22 min Scan# 757

Delta R.T. -0.01 min

Lab File: VL035348.D

Acq: 6 Aug 2020 13:44

Instrument :

MSVOA_L

ClientSampleId :

AA-1

Tot Ion: 43 Resp: 72789

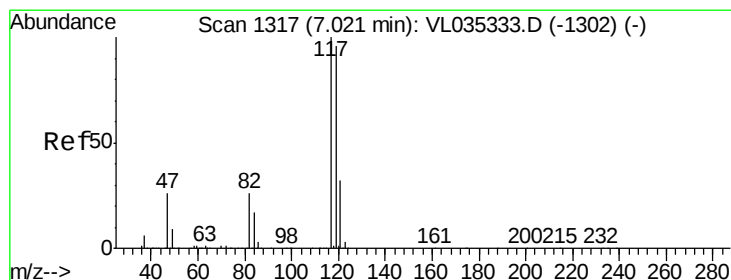
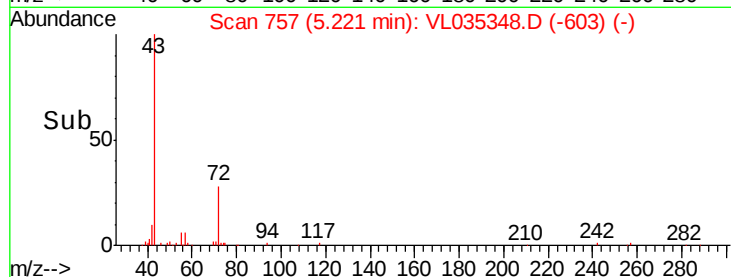
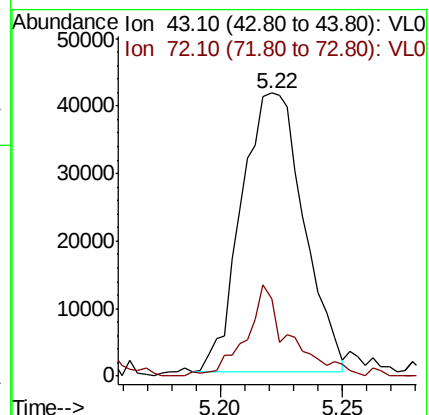
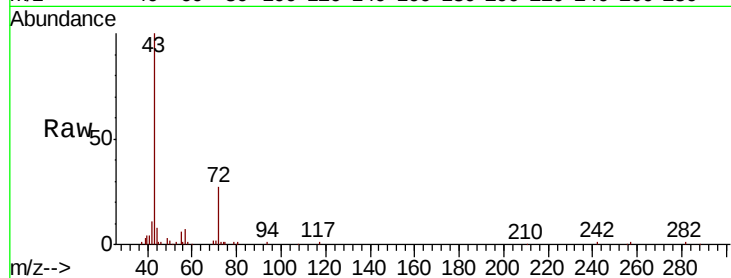
Ion Ratio Lower Upper

43 100

72 23.4 18.9 28.3

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#35

Carbon Tetrachloride

Concen: 0.068 ppbv m

RT: 7.01 min Scan# 1312

Delta R.T. -0.02 min

Lab File: VL035348.D

Acq: 6 Aug 2020 13:44

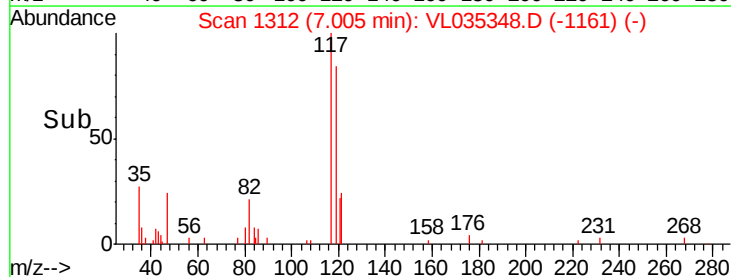
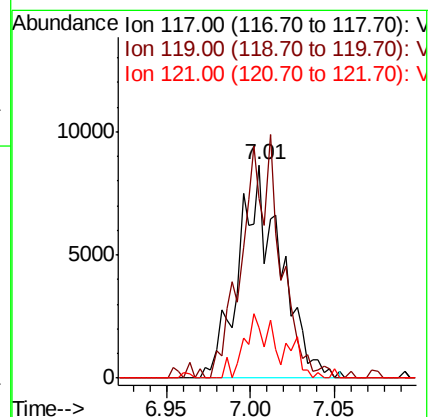
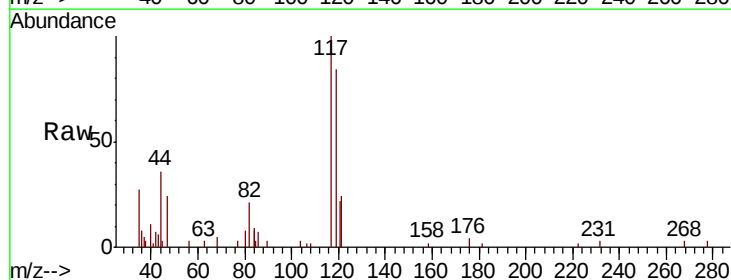
Tgt Ion: 117 Resp: 15090

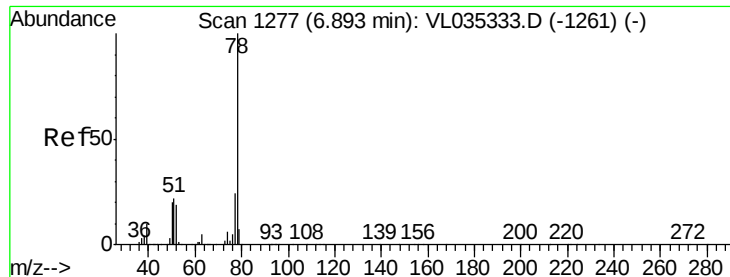
Ion Ratio Lower Upper

117 100

119 84.2 77.0 115.6

121 23.6 26.0 39.0#





#36

Benzene

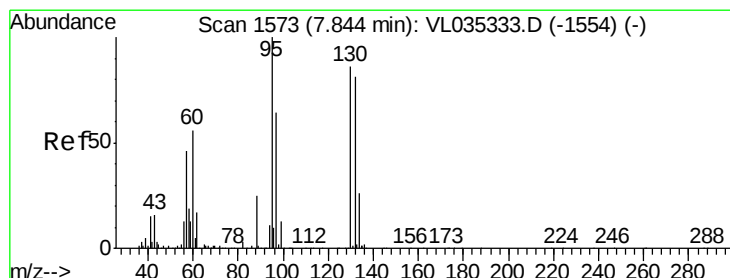
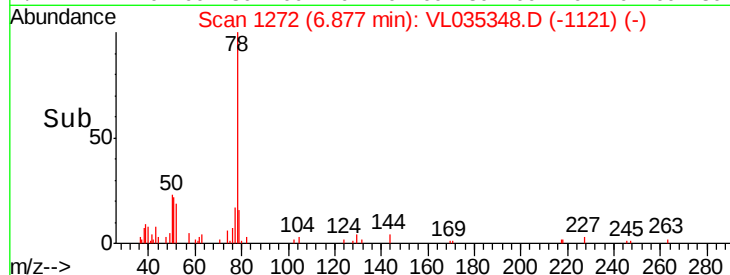
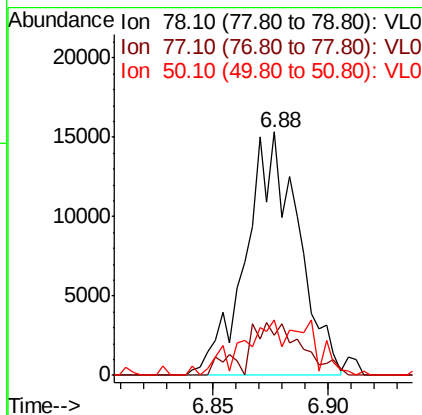
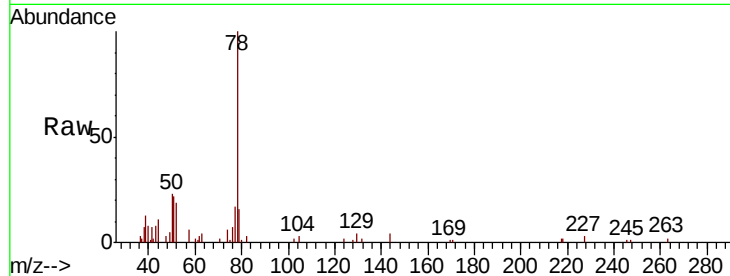
Concen: 0.112 ppbv m
RT: 6.88 min Scan# 1272
Delta R.T. -0.02 min
Lab File: VL035348.D
Acq: 6 Aug 2020 13:44

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tot Ion	Ratio	Lower	Upper
78	100		
77	16.7	19.3	28.9#
50	22.8	16.3	24.5

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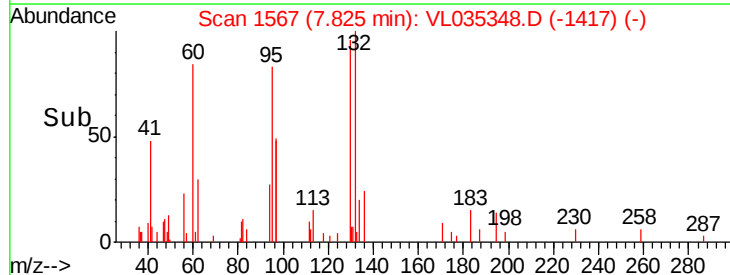
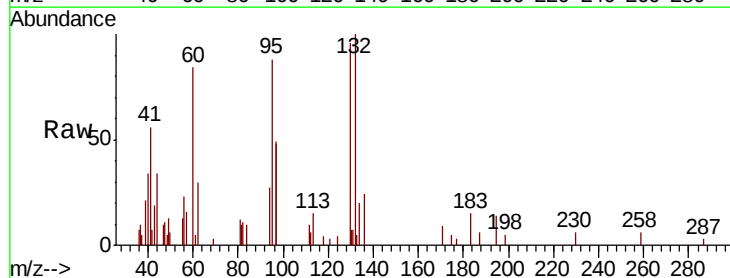
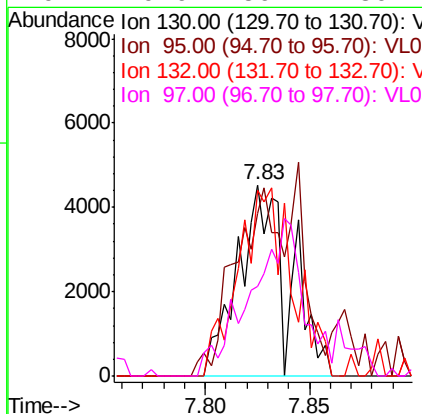


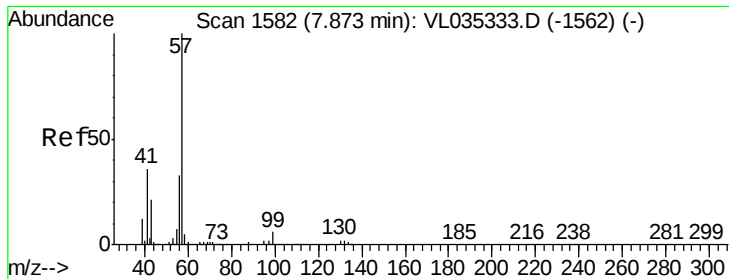
#38

Trichloroethene

Concen: 0.077 ppbv m
RT: 7.83 min Scan# 1567
Delta R.T. -0.02 min
Lab File: VL035348.D
Acq: 6 Aug 2020 13:44

Tgt Ion	Ratio	Lower	Upper
130	100		
95	91.1	93.4	140.2#
132	103.8	76.1	114.1
97	49.9	59.4	89.2#





#44

2,2,4-Trimethylpentane

Concen: 0.109 ppbv m

RT: 7.86 min Scan# 1577

Delta R.T. -0.02 min

Lab File: VL035348.D

Acq: 6 Aug 2020 13:44

Instrument :

MSVOA_L

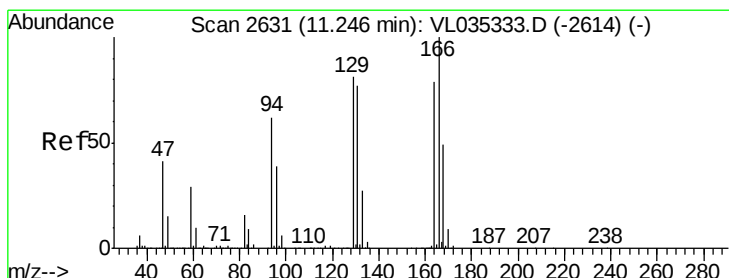
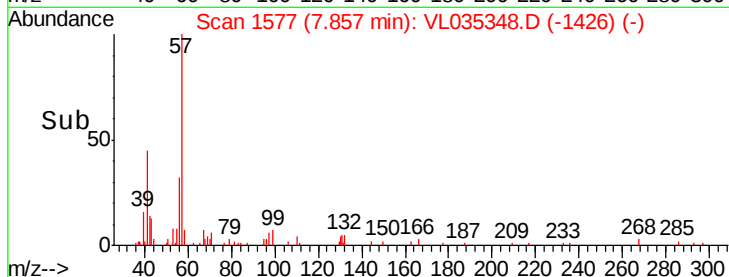
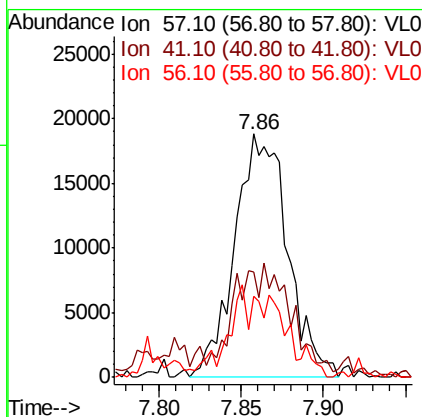
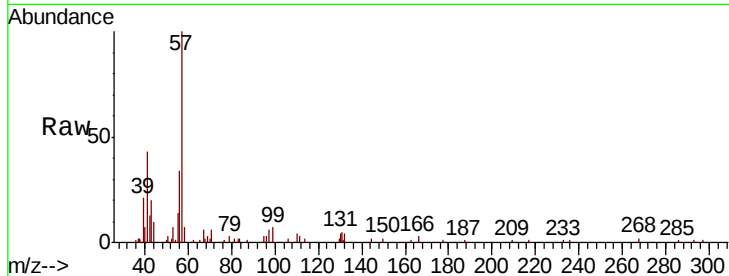
ClientSampled :

AA-1

Tot Ion:	57	Resp:	42101
Ion Ratio		Lower	Upper
57	100		
41	60.6	27.9	41.9#
56	37.4	25.4	38.0

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#52

Tetrachloroethene

Concen: 0.042 ppbv m

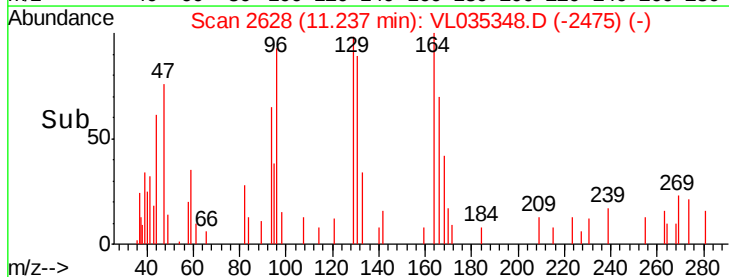
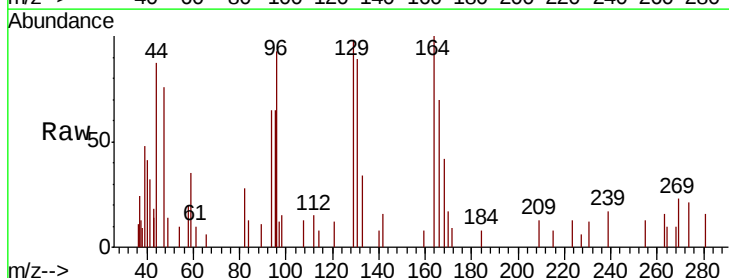
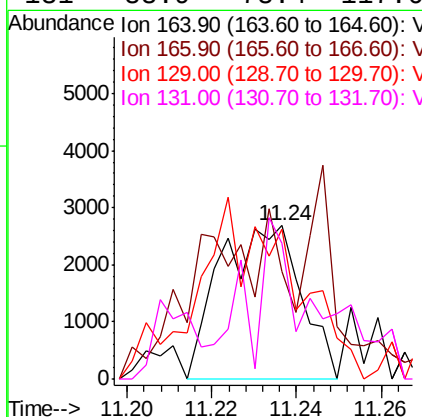
RT: 11.24 min Scan# 2628

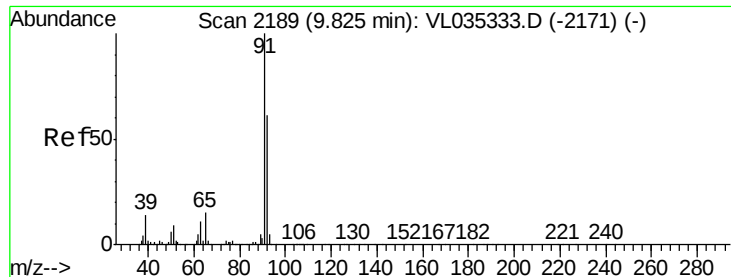
Delta R.T. -0.01 min

Lab File: VL035348.D

Acq: 6 Aug 2020 13:44

Tgt Ion:	164	Resp:	3564
Ion Ratio		Lower	Upper
164	100		
166	69.9	101.4	152.0#
129	97.8	82.1	123.1
131	88.9	78.4	117.6





#53

Toluene

Concen: 2.476 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.01 min

Lab File: VL035348.D

Acq: 6 Aug 2020 13:44

Instrument :

MSVOA_L

ClientSampleId :

AA-1

Tot Ion: 91 Resp: 583251

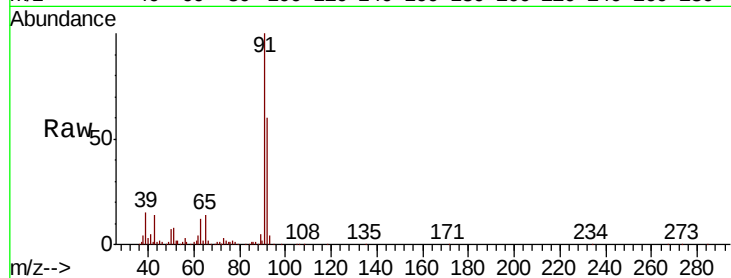
Ion Ratio Lower Upper

91 100

92 59.1 48.5 72.7

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

300000

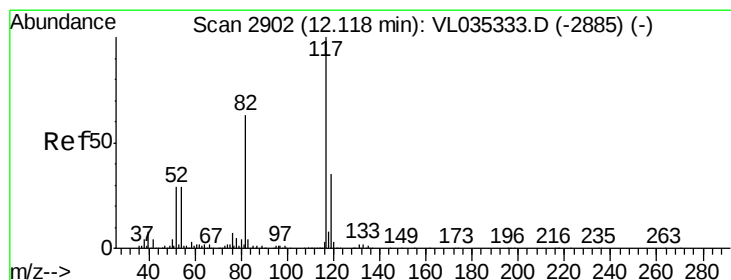
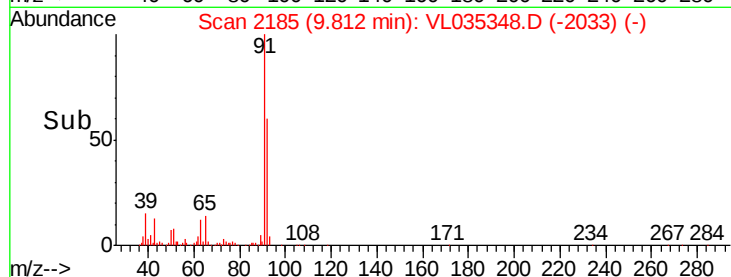
200000

100000

0

9.75 9.80 9.85

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. -0.02 min

Lab File: VL035348.D

Acq: 6 Aug 2020 13:44

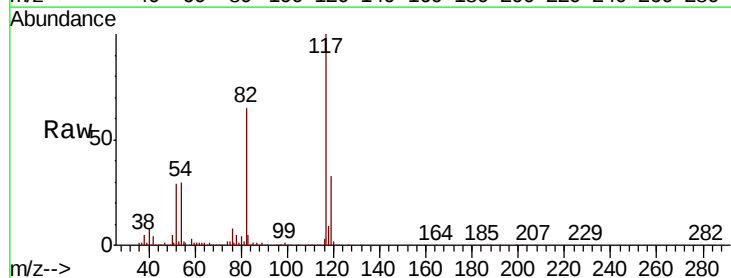
Tgt Ion: 117 Resp: 3073918

Ion Ratio Lower Upper

117 100

82 66.9 51.0 76.4

119 33.2 24.7 37.1



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

2000000

1500000

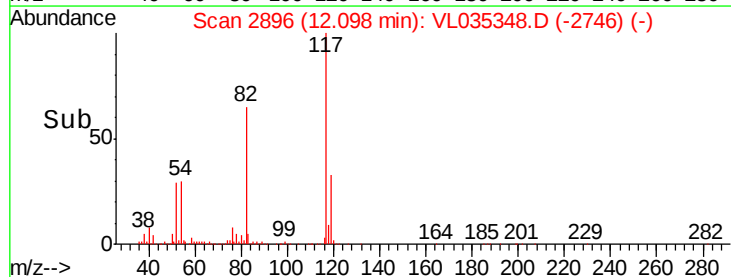
1000000

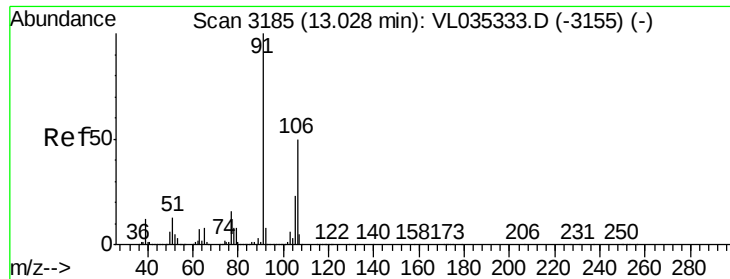
500000

0

12.00 12.10 12.20

Time-->





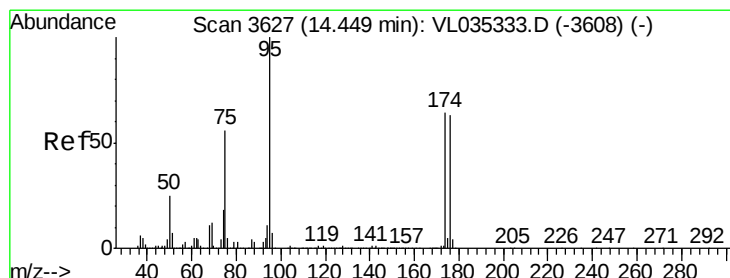
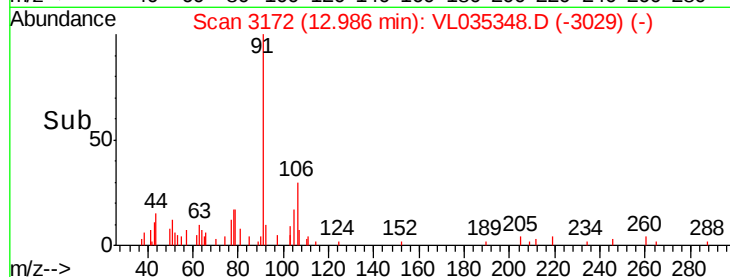
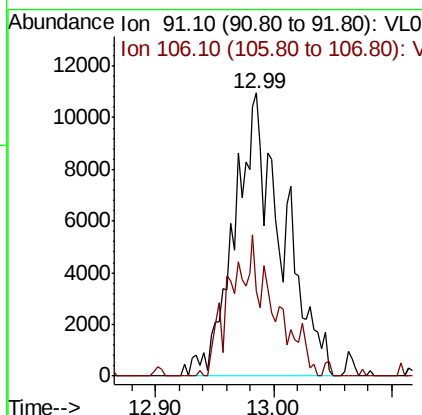
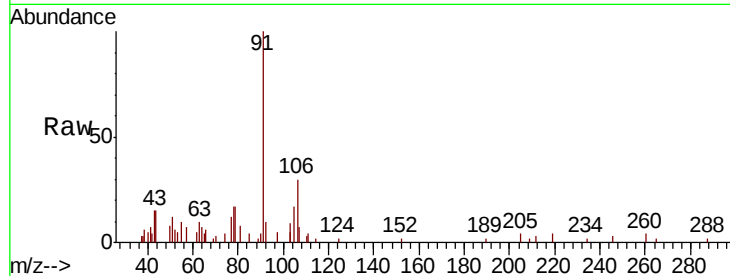
#59
m/p-Xylene
Concen: 0.104 ppbv m
RT: 12.99 min Scan# 3172
Delta R.T. -0.04 min
Lab File: VL035348.D
Acq: 6 Aug 2020 13:44

Instrument :
MSVOA_L
ClientSampled :
AA-1

Tot Ion: 91 Resp: 31116
Ion Ratio Lower Upper
91 100
106 0.0 37.8 56.8#

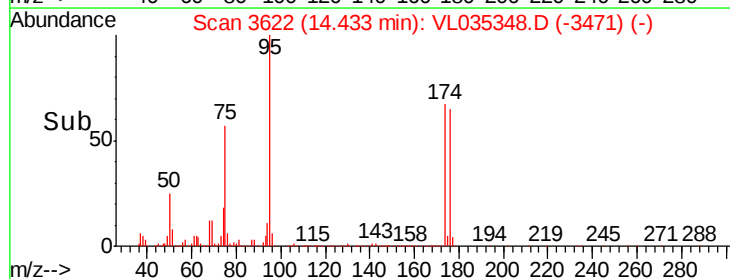
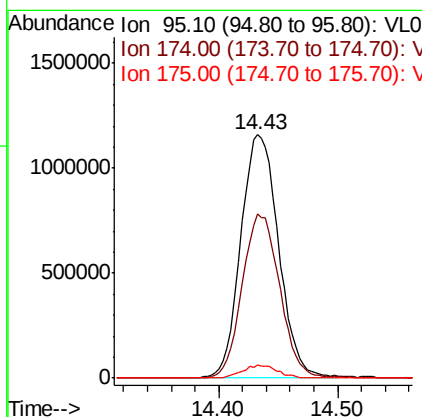
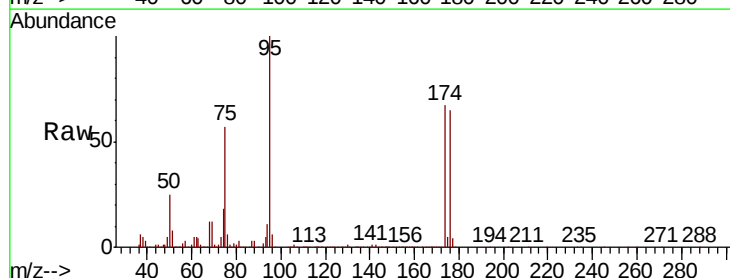
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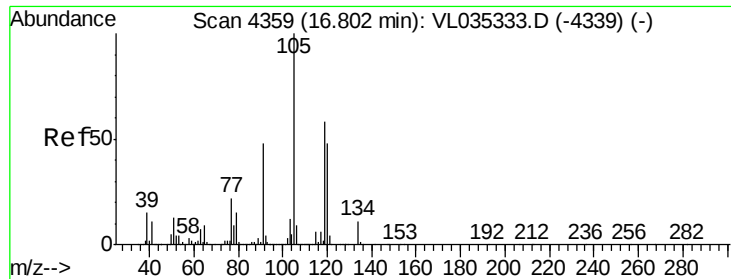
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.958 ppbv
RT: 14.43 min Scan# 3622
Delta R.T. -0.02 min
Lab File: VL035348.D
Acq: 6 Aug 2020 13:44

Tgt Ion: 95 Resp: 2552637
Ion Ratio Lower Upper
95 100
174 67.2 53.5 80.3
175 5.2 4.2 6.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.096 ppbv m
 RT: 16.78 min Scan# 4352
 Delta R.T. -0.02 min
 Lab File: VL035348.D
 Acq: 6 Aug 2020 13:44

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Tot Ion:	105	Resp:	35517
Ion Ratio	Lower	Upper	
105	100		
120	59.3	38.5	57.7#
91	22.8	39.0	58.6#
77	23.5	17.8	26.6

Manual Integrations
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