

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071620\
 Data File : VL035198.D
 Acq On : 16 Jul 2020 17:49
 Operator : SY/AP
 Sample : L3318-01 600X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 PERM-02

Quant Time: Jul 17 04:09:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 08 07:05:23 2020
 QLast Update : Wed Jul 08 07:05:23 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1064741	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	2611832	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.09	117	2406479	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	1976398	10.11	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.10%

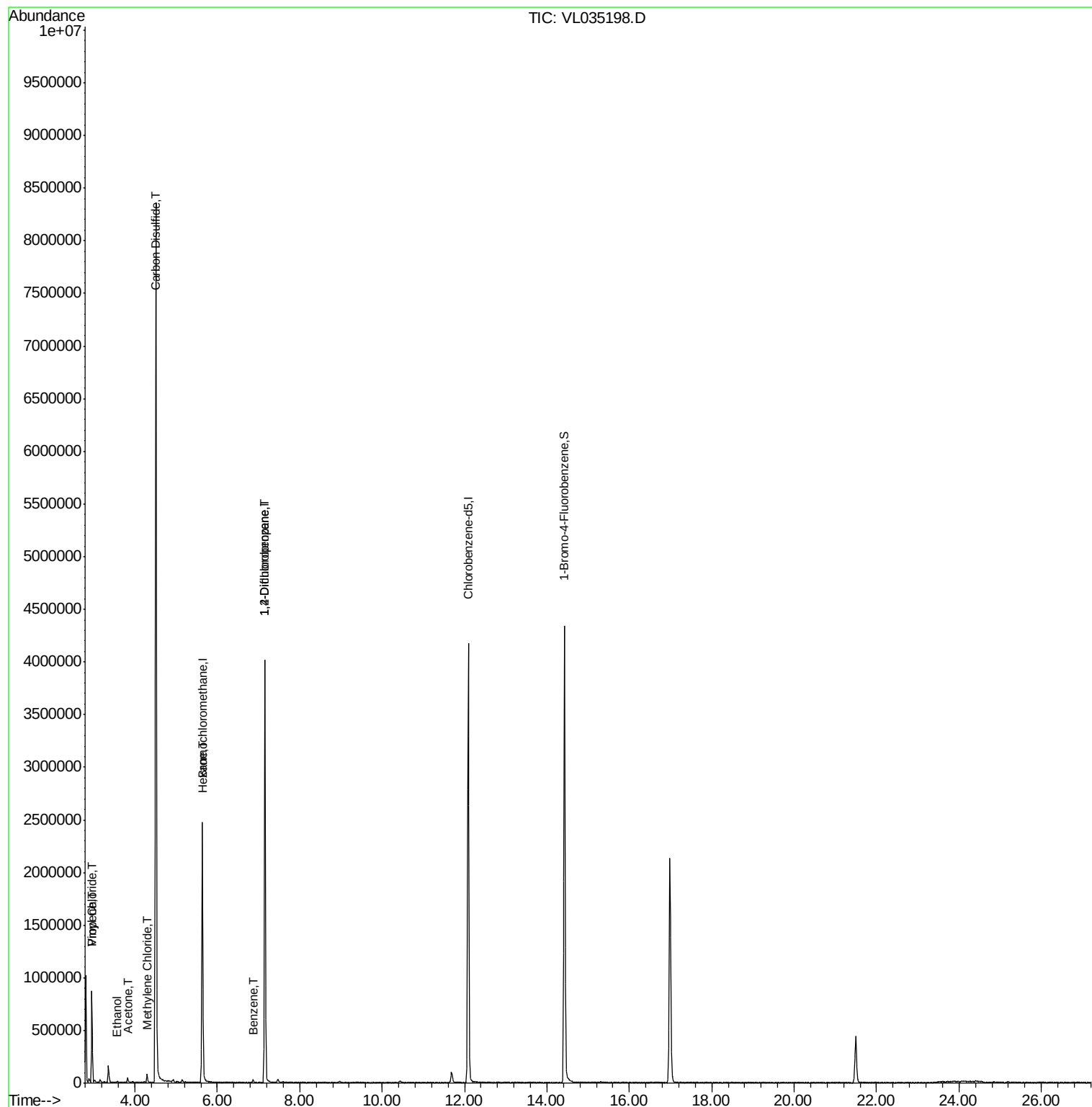
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	2.95	62	46031	0.650	ppbv #	49
9) Propene	2.95	41	4243	0.095	ppbv #	13
13) Ethanol	3.55	45	621	0.044	ppbv #	35
15) Acetone	3.82	43	36790	0.255	ppbv #	76
20) Methylene Chloride	4.30	84	24256	0.387	ppbv #	77
26) Hexane	5.65	57	3189	0.032	ppbv #	33
27) Carbon Disulfide	4.51	76	9889847	71.806	ppbv #	82
36) Benzene	6.86	78	8972	0.047	ppbv #	91
39) 1,2-Dichloropropane	7.15	63	703323	9.356	ppbv #	22

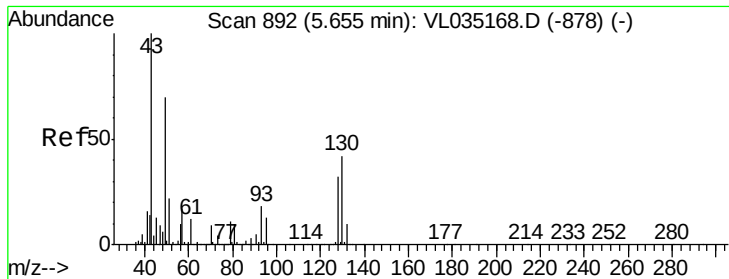
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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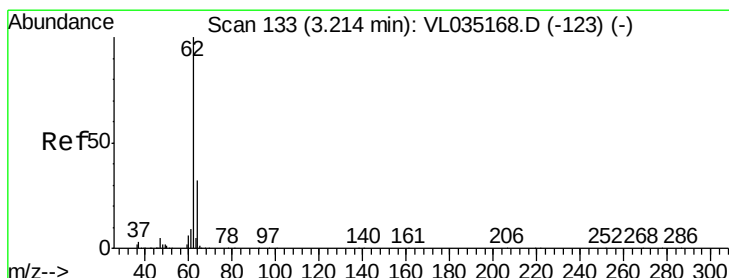
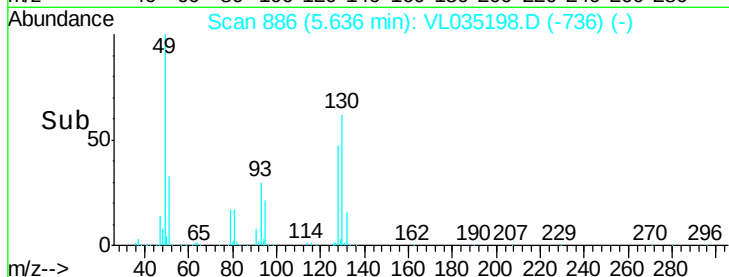
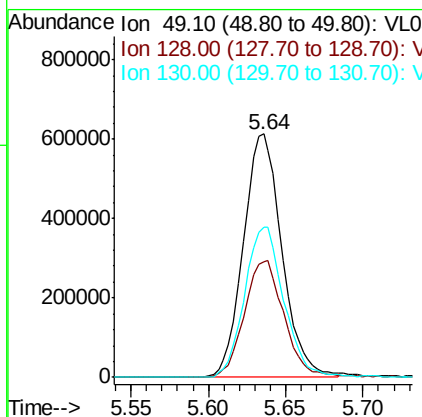
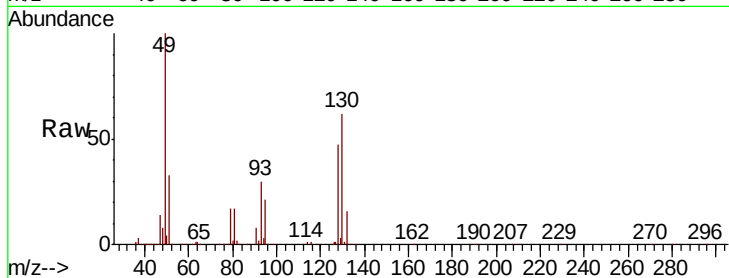




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.64 min Scan# 886
 Delta R.T. -0.02 min
 Lab File: VL035198.D
 Acq: 16 Jul 2020 17:49

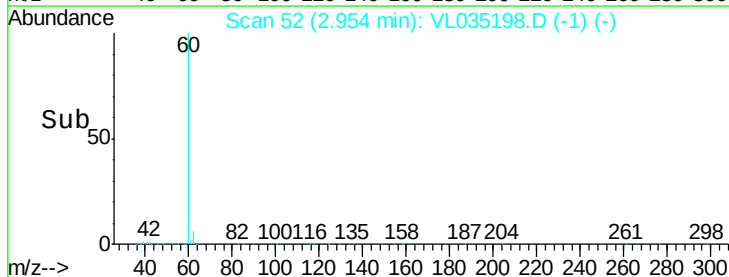
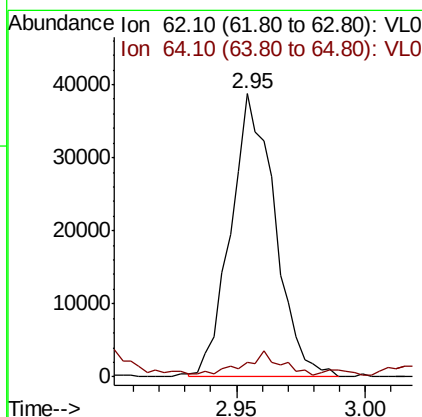
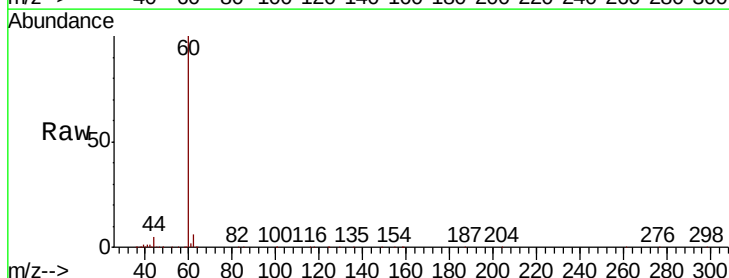
Instrument :
 MSVOA_L
 ClientSampleId :
 PERM-02

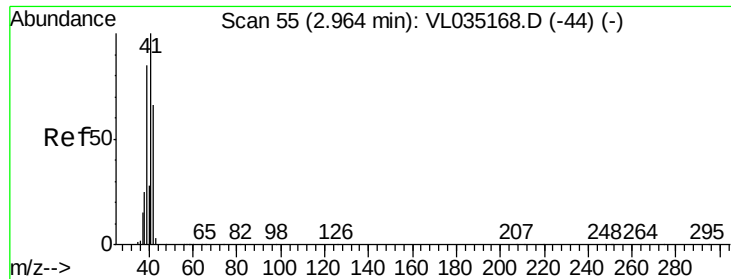
Tot Ion: 49 Resp: 1064741
 Ion Ratio Lower Upper
 49 100
 128 49.9 23.8 71.4
 130 63.6 29.9 89.8



#5
 Vinyl Chloride
 Concen: 0.650 ppbv
 RT: 2.95 min Scan# 52
 Delta R.T. -0.26 min
 Lab File: VL035198.D
 Acq: 16 Jul 2020 17:49

Tgt Ion: 62 Resp: 46031
 Ion Ratio Lower Upper
 62 100
 64 4.0 25.9 38.9#





#9

Propene

Concen: 0.095 ppbv

RT: 2.95 min Scan# 51

Delta R.T. -0.01 min

Lab File: VL035198.D

Acq: 16 Jul 2020 17:49

Instrument :

MSVOA_L

ClientSampleId :

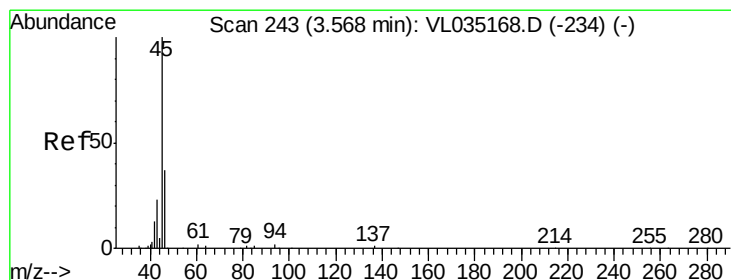
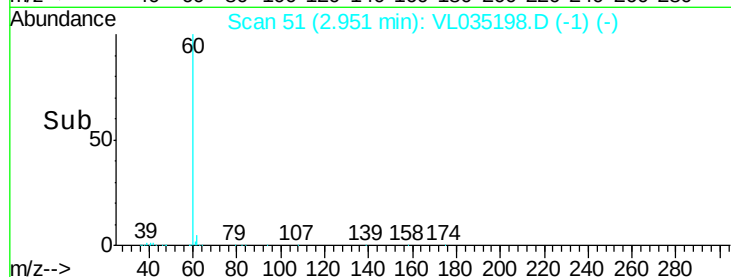
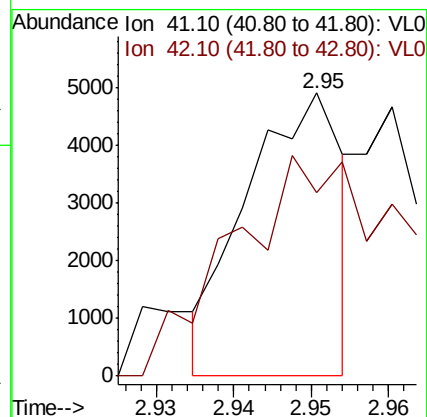
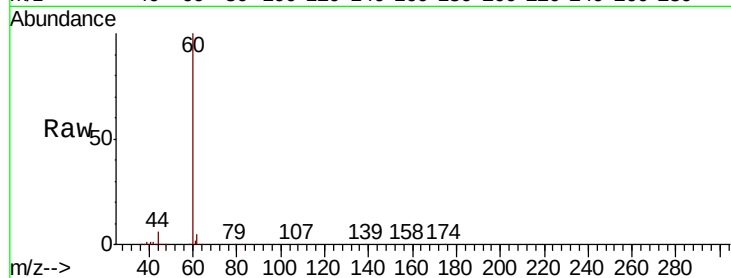
PERM-02

Tot Ion: 41 Resp: 4243

Ion Ratio Lower Upper

41 100

42 138.6 54.6 81.8#



#13

Ethanol

Concen: 0.044 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.02 min

Lab File: VL035198.D

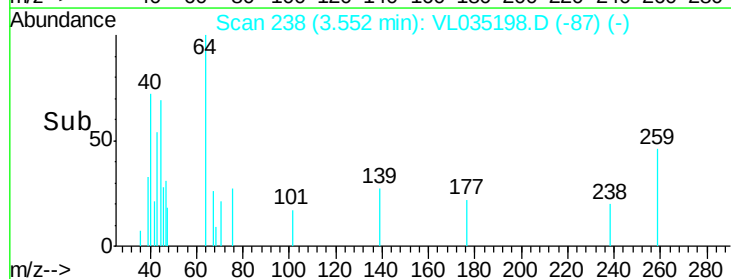
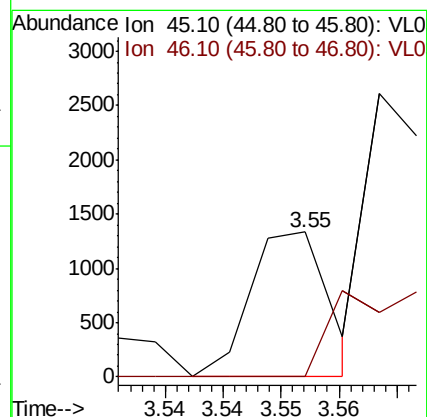
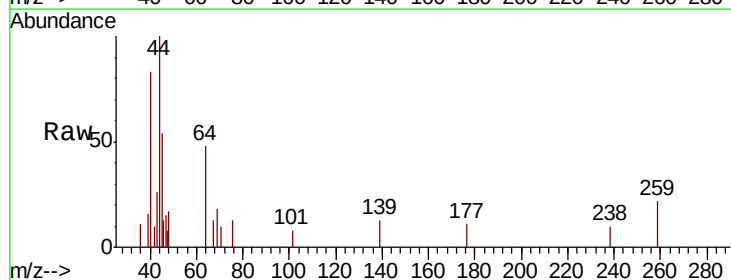
Acq: 16 Jul 2020 17:49

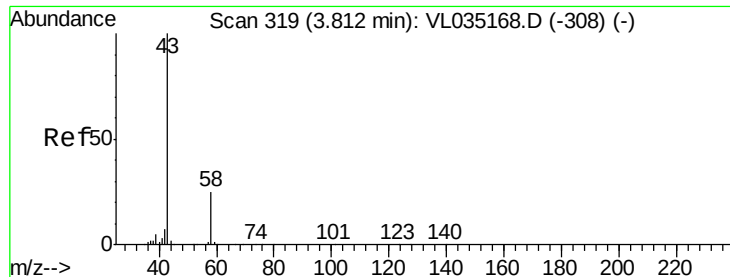
Tgt Ion: 45 Resp: 621

Ion Ratio Lower Upper

45 100

46 0.0 16.2 65.0#





#15

Acetone

Concen: 0.255 ppbv

RT: 3.82 min Scan# 322

Delta R.T. 0.01 min

Lab File: VL035198.D

Acq: 16 Jul 2020 17:49

Instrument :

MSVOA_L

ClientSampleId :

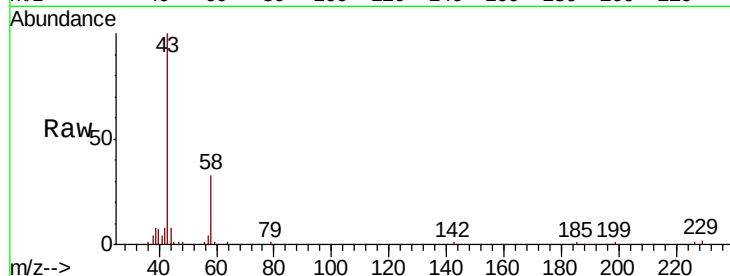
PERM-02

Tot Ion: 43 Resp: 36790

Ion Ratio Lower Upper

43 100

58 38.7 21.3 31.9#



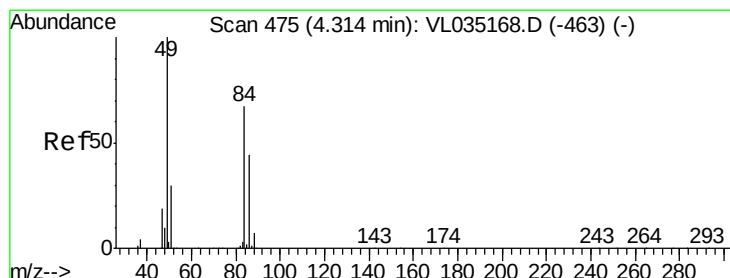
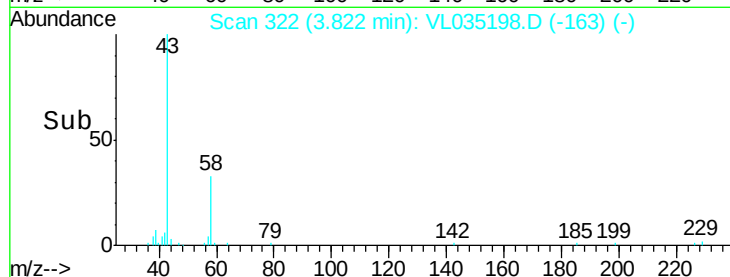
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.82

3.85

Time-->



#20

Methylene Chloride

Concen: 0.387 ppbv

RT: 4.30 min Scan# 470

Delta R.T. -0.02 min

Lab File: VL035198.D

Acq: 16 Jul 2020 17:49

Tgt Ion: 84 Resp: 24256

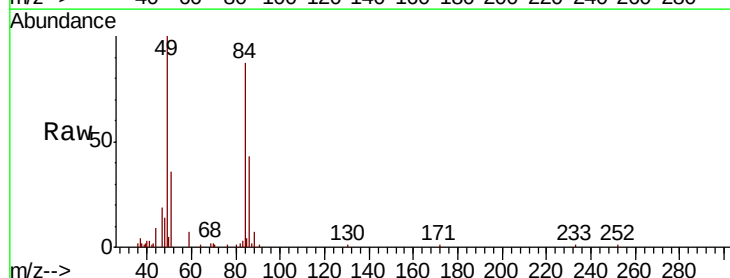
Ion Ratio Lower Upper

84 100

49 113.6 119.4 179.0#

51 41.4 36.6 55.0

86 48.7 52.5 78.7#



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

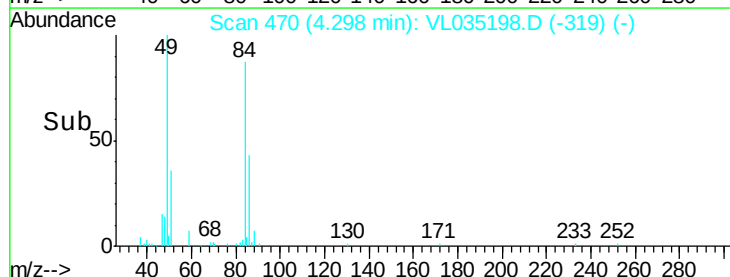
Ion 51.10 (50.80 to 51.80): VL0

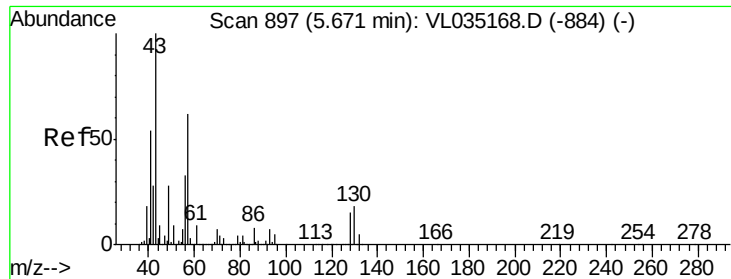
Ion 86.00 (85.70 to 86.70): VL0

4.30

4.35

Time-->

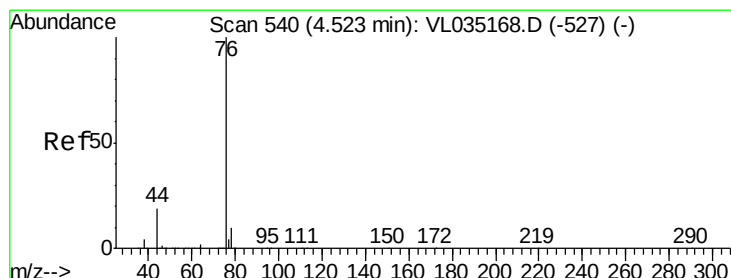
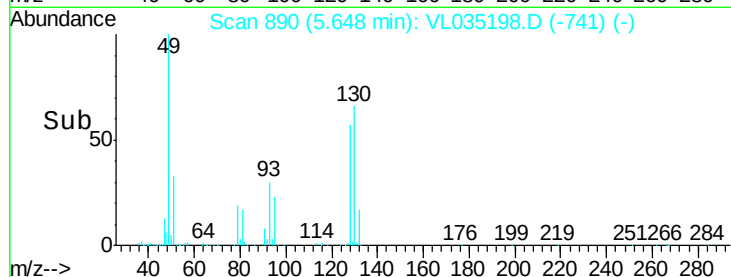
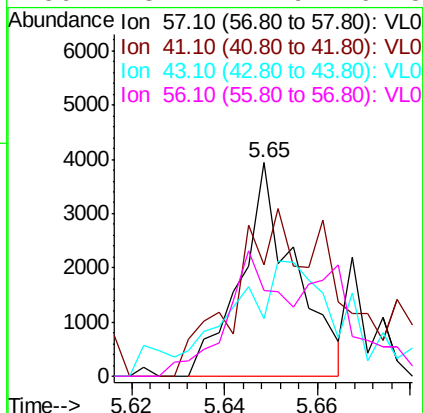
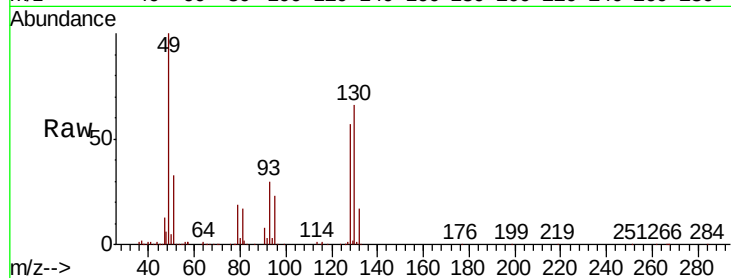




#26
Hexane
Concen: 0.032 ppbv
RT: 5.65 min Scan# 890
Delta R.T. -0.02 min
Lab File: VL035198.D
Acq: 16 Jul 2020 17:49

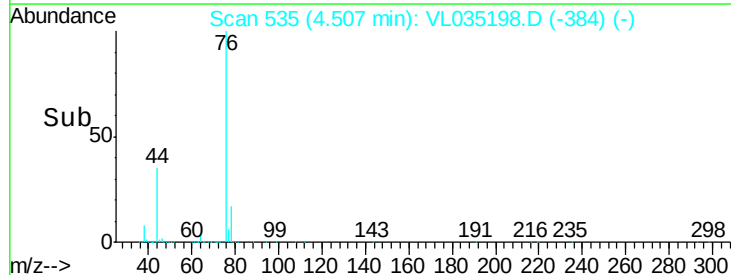
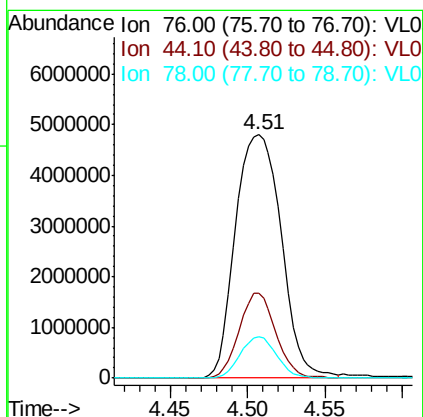
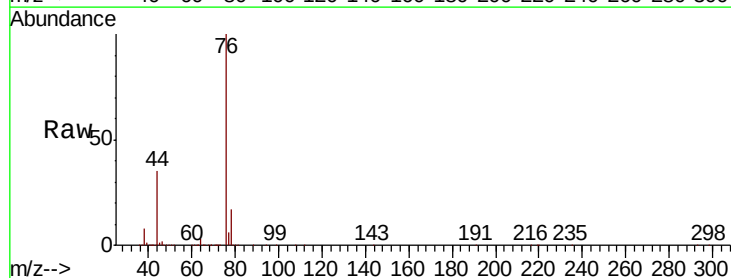
Instrument :
MSVOA_L
ClientSampleId :
PERM-02

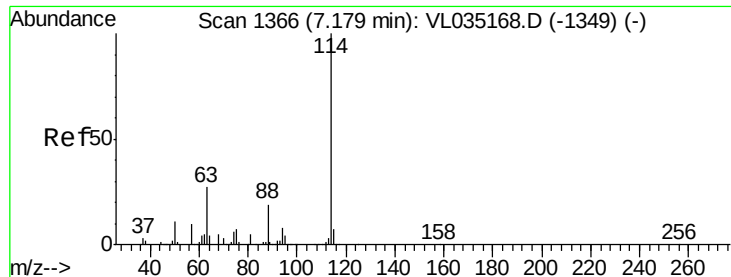
Tot Ion: 57 Resp: 3189
Ion Ratio Lower Upper
57 100
41 172.7 72.9 109.3#
43 135.4 179.5 269.3#
56 113.7 42.9 64.3#



#27
Carbon Disulfide
Concen: 71.806 ppbv
RT: 4.51 min Scan# 535
Delta R.T. -0.02 min
Lab File: VL035198.D
Acq: 16 Jul 2020 17:49

Tgt Ion: 76 Resp: 9889847
Ion Ratio Lower Upper
76 100
44 28.2 14.9 22.3#
78 13.8 7.5 11.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1358

Delta R.T. -0.03 min

Lab File: VL035198.D

Acq: 16 Jul 2020 17:49

Instrument :

MSVOA_L

ClientSampleId :

PERM-02

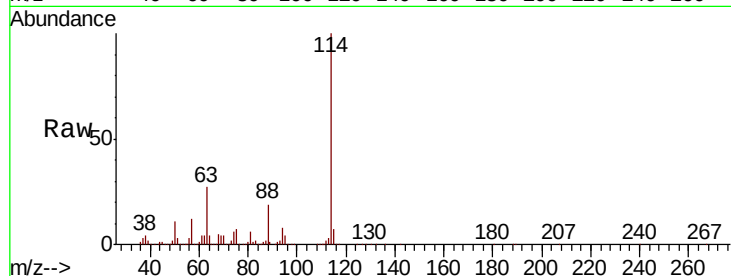
Tot Ion:114 Resp: 2611832

Ion Ratio Lower Upper

114 100

63 27.5 22.0 33.0

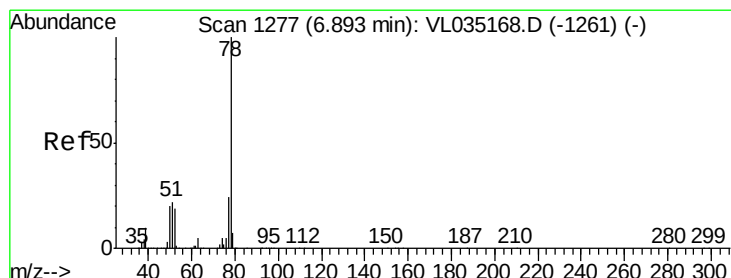
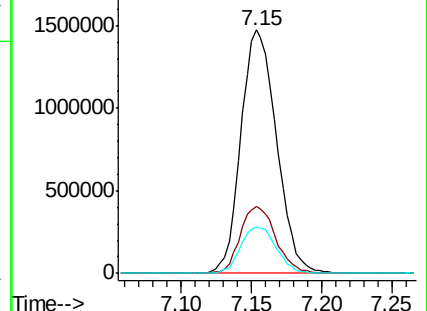
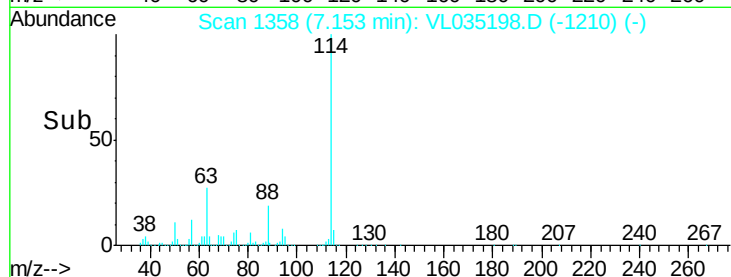
88 19.4 15.4 23.0



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#36

Benzene

Concen: 0.047 ppbv

RT: 6.86 min Scan# 1268

Delta R.T. -0.03 min

Lab File: VL035198.D

Acq: 16 Jul 2020 17:49

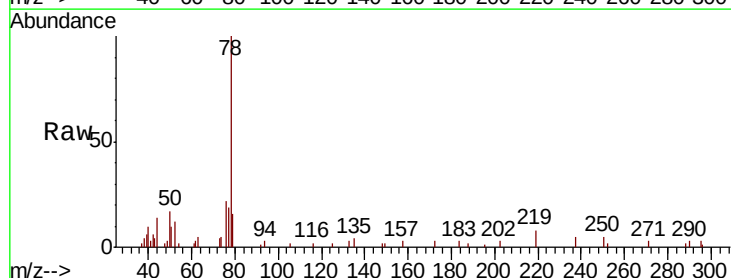
Tgt Ion: 78 Resp: 8972

Ion Ratio Lower Upper

78 100

77 19.8 19.3 28.9

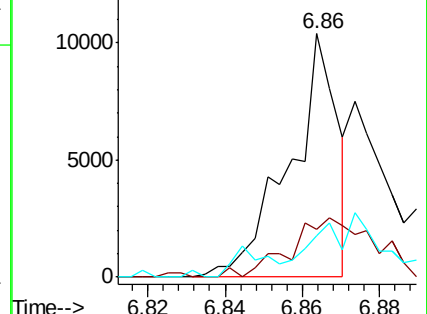
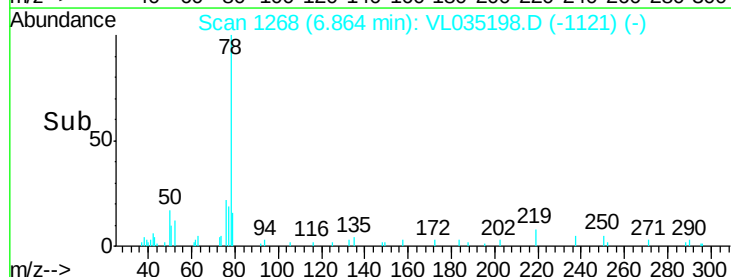
50 24.5 16.0 24.0#

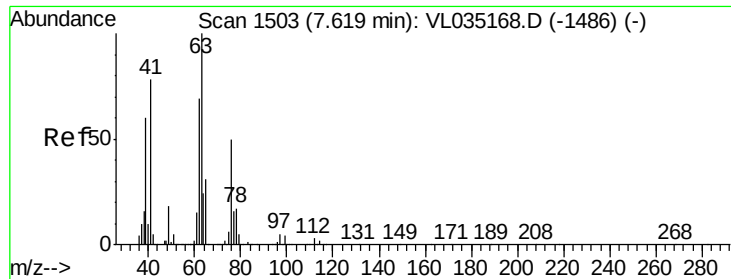


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#39

1,2-Dichloropropane

Concen: 9.356 ppbv

RT: 7.15 min Scan# 1358

Delta R.T. -0.47 min

Lab File: VL035198.D

Acq: 16 Jul 2020 17:49

Instrument :

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ClientSampleId :

PERM-02

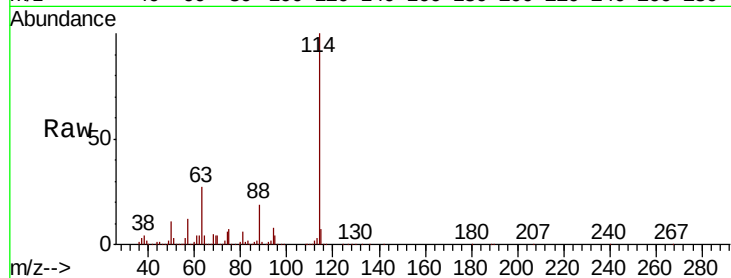
Tot Ion: 63 Resp: 703323

Ion Ratio Lower Upper

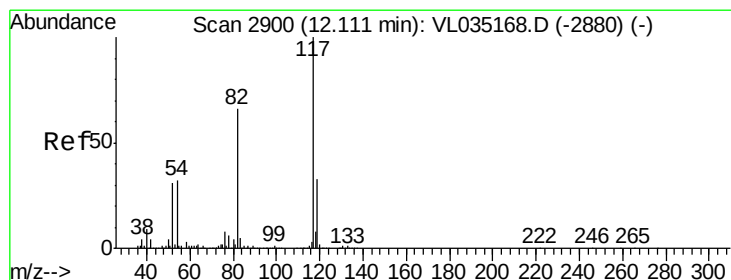
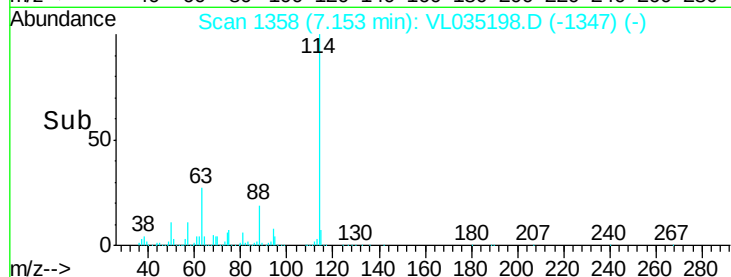
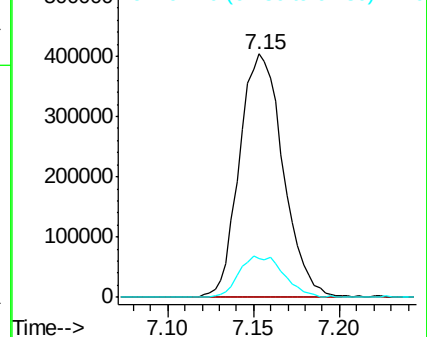
63 100

41 0.1 62.6 94.0#

62 16.0 55.0 82.6#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.03 min

Lab File: VL035198.D

Acq: 16 Jul 2020 17:49

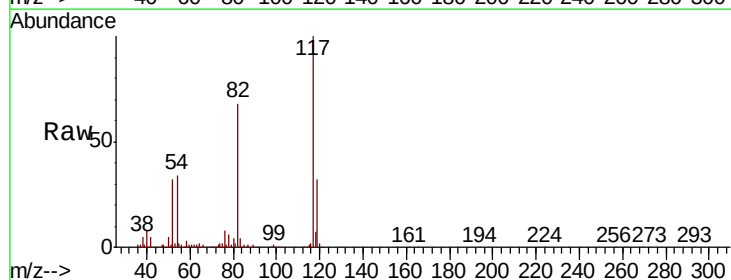
Tgt Ion: 117 Resp: 2406479

Ion Ratio Lower Upper

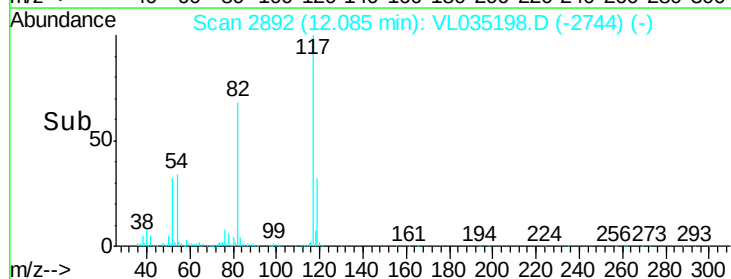
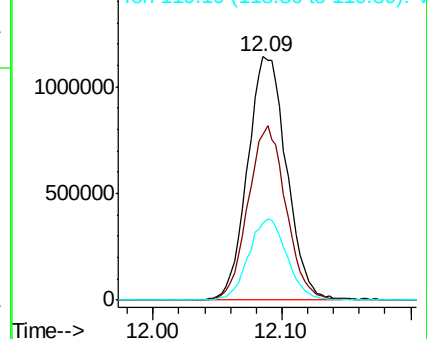
117 100

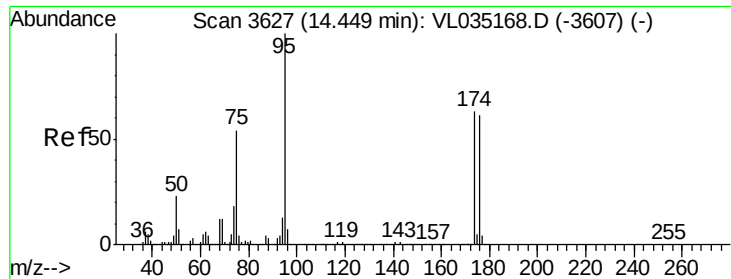
82 69.8 52.3 78.5

119 32.8 24.9 37.3



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





#68

1-Bromo-4-Fluorobenzene

Concen: 10.110 ppbv

RT: 14.43 min Scan# 3620

Delta R.T. -0.02 min

Lab File: VL035198.D

Acq: 16 Jul 2020 17:49

Instrument :

MSVOA_L

ClientSampleId :

PERM-02

Tot Ion: 95 Resp: 1976398

Ion Ratio Lower Upper

95 100

174 65.8 52.2 78.2

175 4.5 4.0 6.0

