

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071620\
 Data File : VL035204.D
 Acq On : 16 Jul 2020 21:42
 Operator : SY/AP
 Sample : L3318-01DUP 1200X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 PERM-02DUP

Quant Time: Jul 17 06:49:38 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	5.63	49	1029376	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	2510065	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.09	117	2347296	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1961542	10.29	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

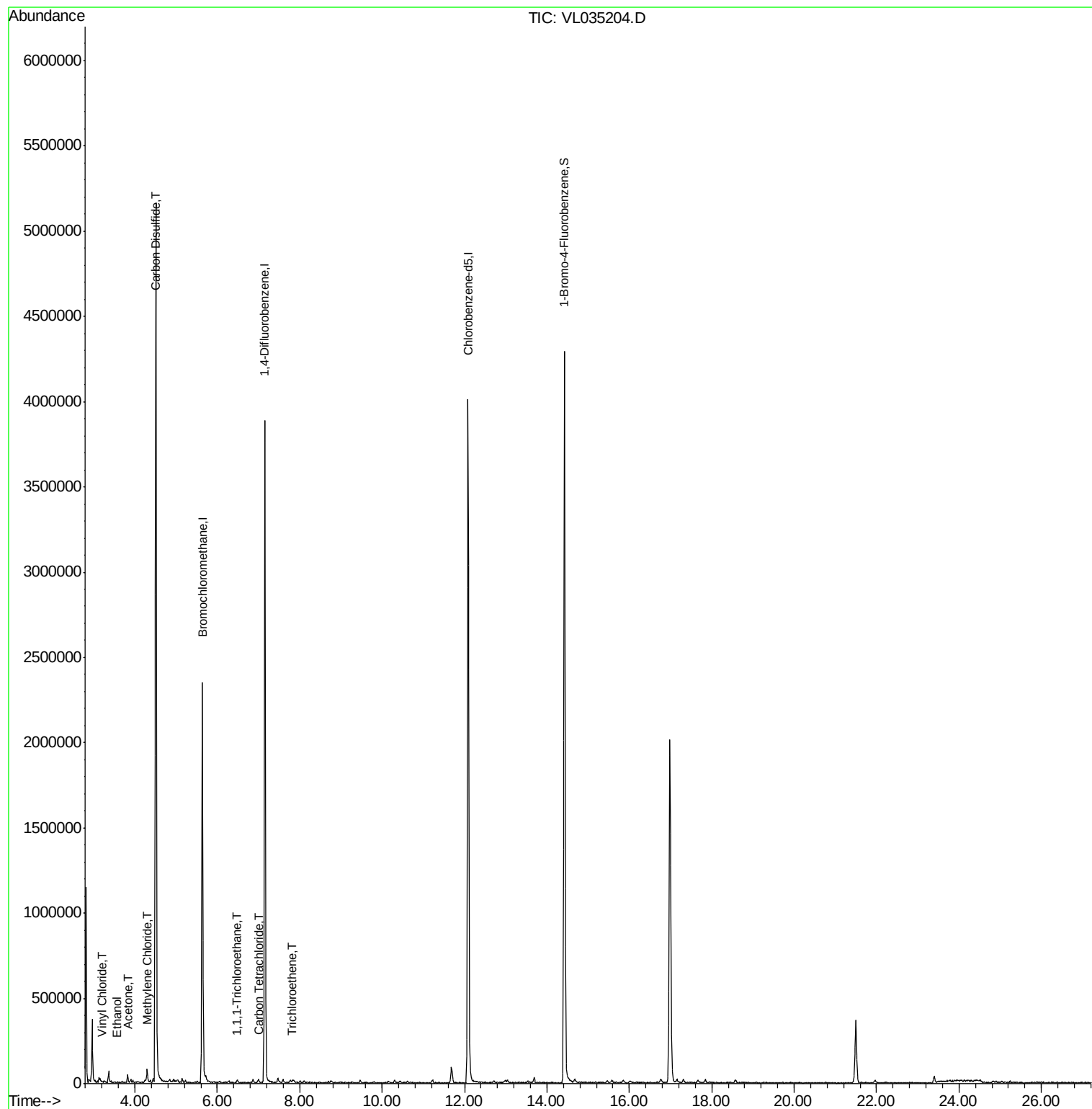
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.20	62	3953m	0.058	ppbv	
13) Ethanol	3.57	45	3793m	0.277	ppbv	
15) Acetone	3.82	43	39006m	0.280	ppbv	
20) Methylene Chloride	4.30	84	20711	0.342	ppbv	# 89
27) Carbon Disulfide	4.51	76	6114698	45.922	ppbv	94
32) 1,1,1-Trichloroethane	6.48	97	8804m	0.055	ppbv	
35) Carbon Tetrachloride	7.00	117	9270m	0.057	ppbv	
38) Trichloroethene	7.83	130	3539m	0.048	ppbv	

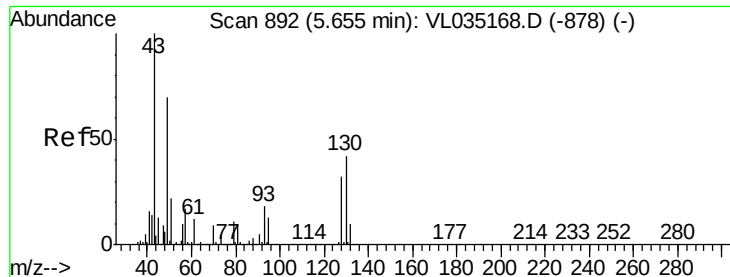
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.63 min Scan# 885

Delta R.T. -0.02 min

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ClientSampleId :

PERM-02DUP

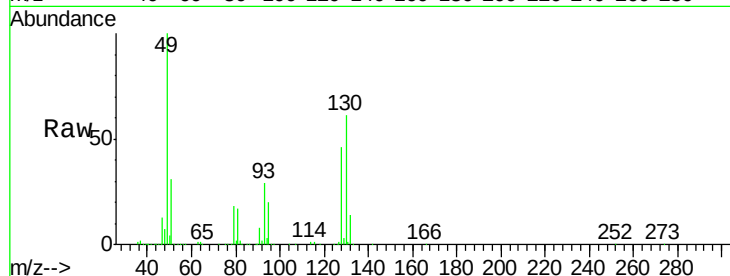
Tot Ion: 49 Resp: 1029376

Ion Ratio Lower Upper

49 100

128 49.4 23.8 71.4

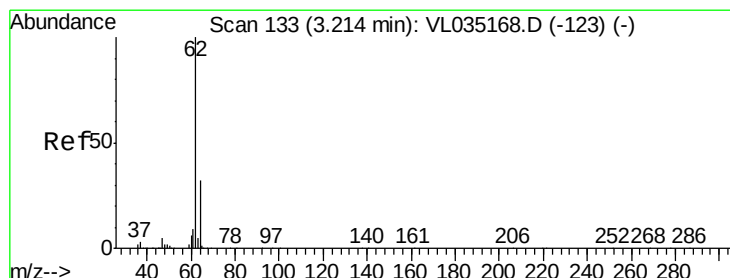
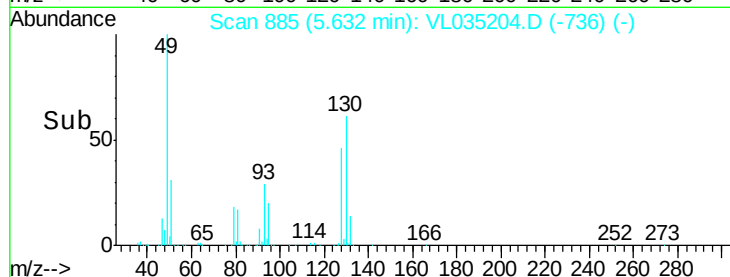
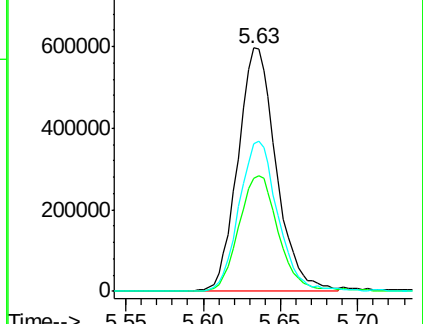
130 63.3 29.9 89.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#5

Vinyl Chloride

Concen: 0.058 ppbv m

RT: 3.20 min Scan# 127

Delta R.T. -0.02 min

Lab File: VL035204.D

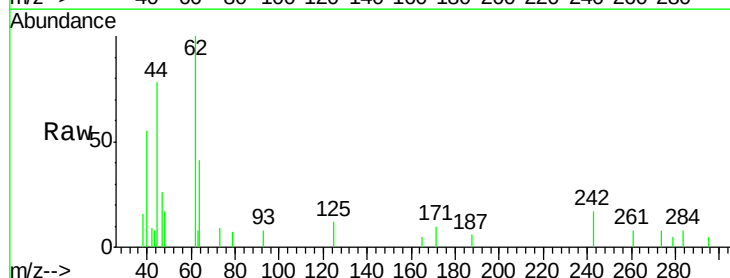
Acq: 16 Jul 2020 21:42

Tgt Ion: 62 Resp: 3953

Ion Ratio Lower Upper

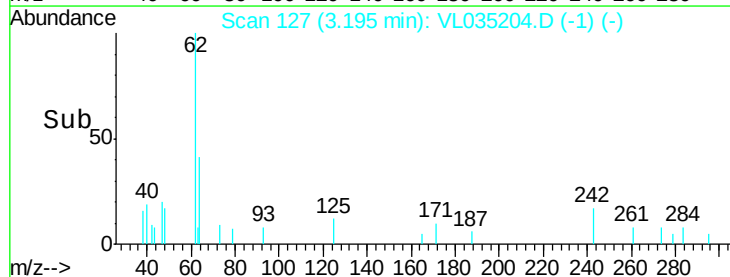
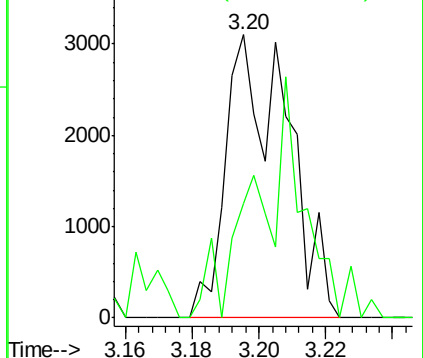
62 100

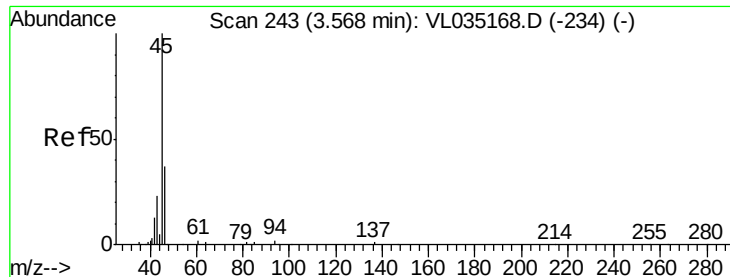
64 40.6 25.9 38.9#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#13

Ethanol

Concen: 0.277 ppbv m

RT: 3.57 min Scan# 244

Delta R.T. 0.00 min

Lab File: VL035204.D

Acq: 16 Jul 2020 21:42

Instrument :

MSVOA_L

ClientSampleId :

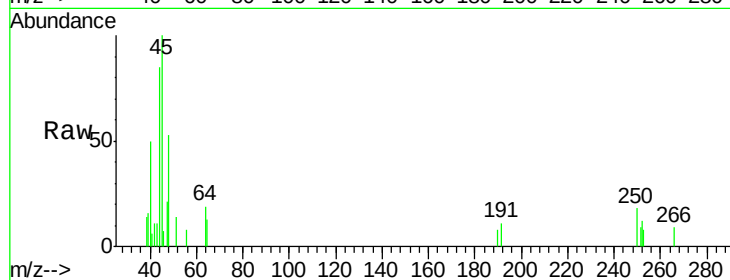
PERM-02DUP

Tot Ion: 45 Resp: 3793

Ion Ratio Lower Upper

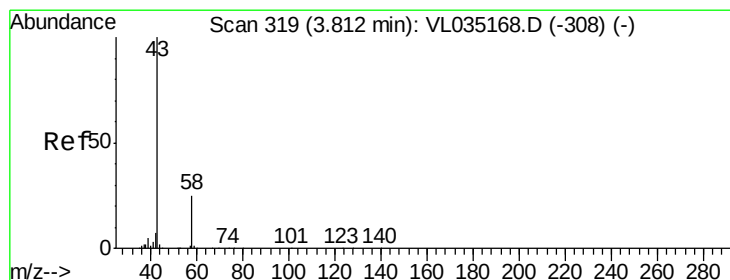
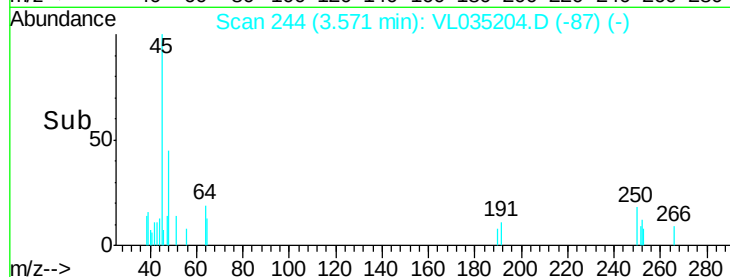
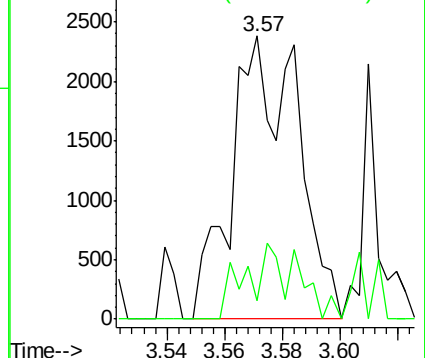
45 100

46 0.0 16.2 65.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 0.280 ppbv m

RT: 3.82 min Scan# 322

Delta R.T. 0.01 min

Lab File: VL035204.D

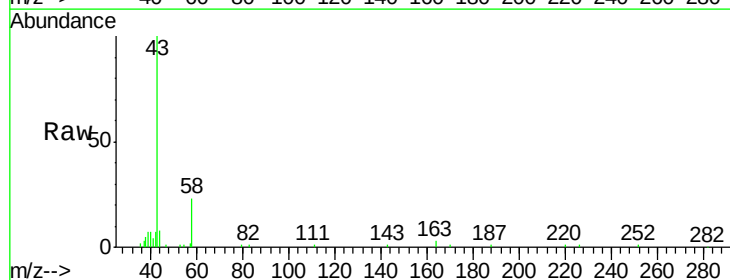
Acq: 16 Jul 2020 21:42

Tgt Ion: 43 Resp: 39006

Ion Ratio Lower Upper

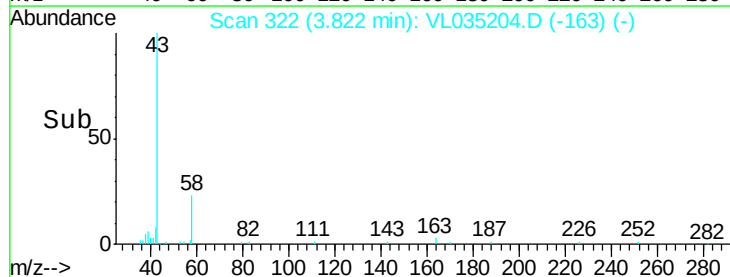
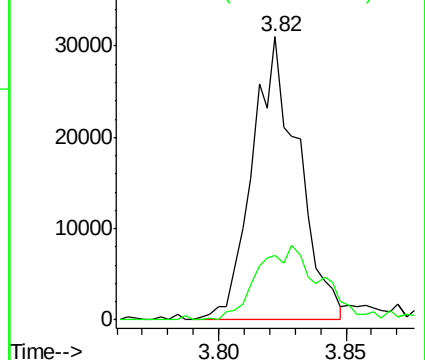
43 100

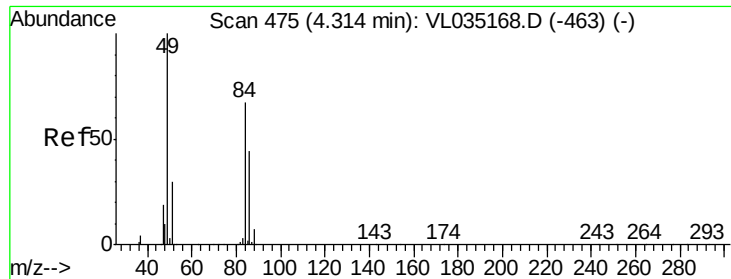
58 38.5 21.3 31.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

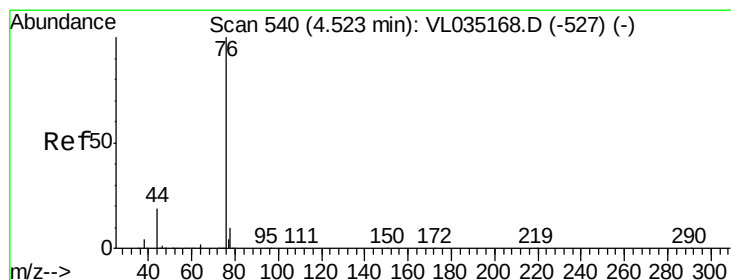
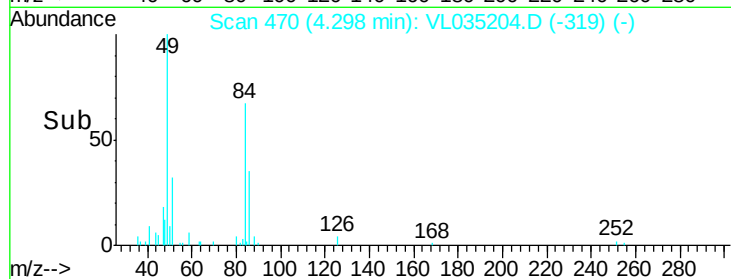
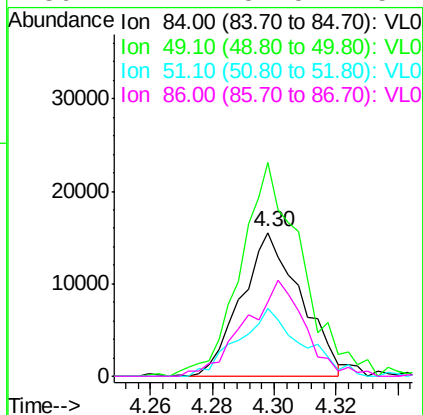
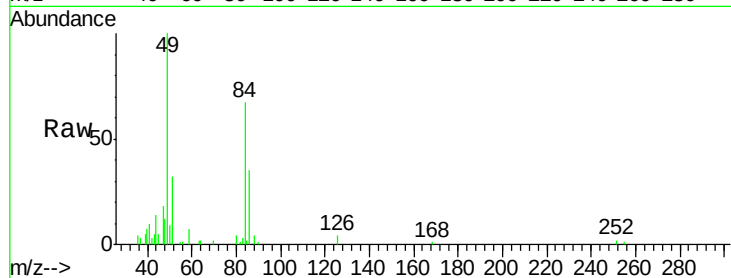




#20
Methylene Chloride
Concen: 0.342 ppbv
RT: 4.30 min Scan# 470
Delta R.T. -0.02 min
Lab File: VL035204.D
Acq: 16 Jul 2020 21:42

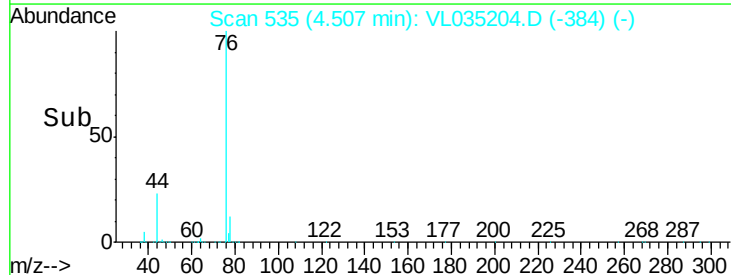
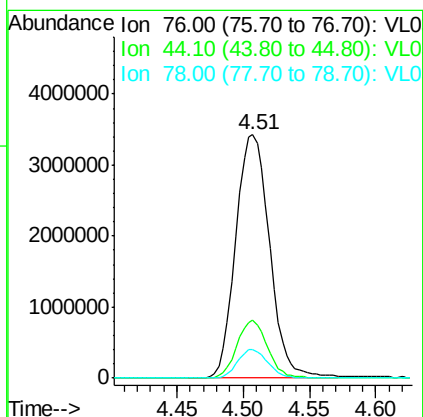
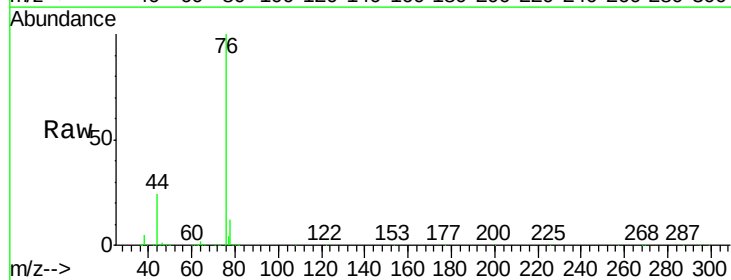
Instrument :
MSVOA_L
ClientSampleId :
PERM-02DUP

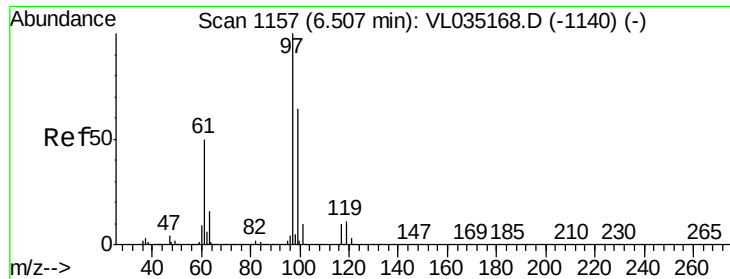
Tot Ion: 84 Resp: 20711
Ion Ratio Lower Upper
84 100
49 138.6 119.4 179.0
51 46.3 36.6 55.0
86 47.4 52.5 78.7#



#27
Carbon Disulfide
Concen: 45.922 ppbv
RT: 4.51 min Scan# 535
Delta R.T. -0.02 min
Lab File: VL035204.D
Acq: 16 Jul 2020 21:42

Tgt Ion: 76 Resp: 6114698
Ion Ratio Lower Upper
76 100
44 21.7 14.9 22.3
78 10.8 7.5 11.3





#32

1,1,1-Trichloroethane

Concen: 0.055 ppbv m

RT: 6.48 min Scan# 1148

Delta R.T. -0.03 min

Lab File: VL035204.D

Acq: 16 Jul 2020 21:42

Instrument :

MSVOA_L

ClientSampleId :

PERM-02DUP

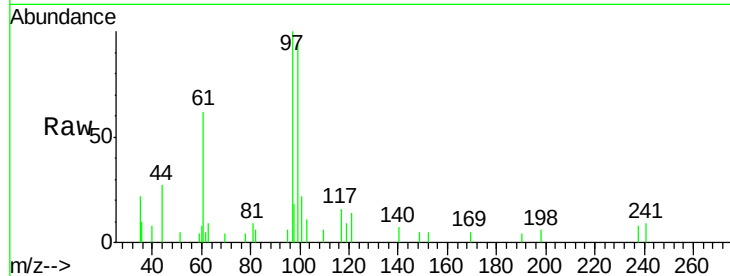
Tot Ion: 97 Resp: 8804

Ion Ratio Lower Upper

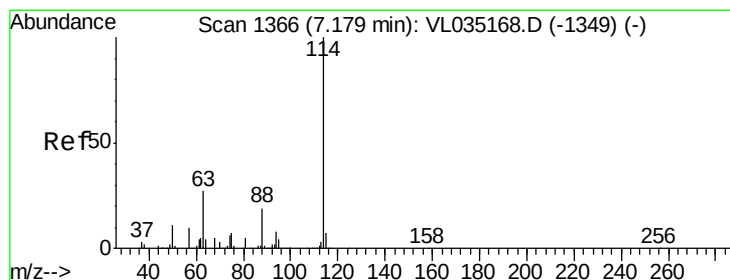
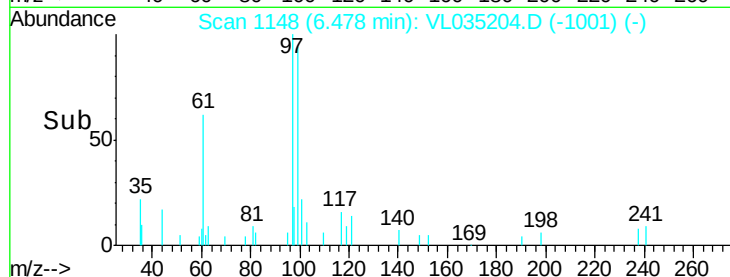
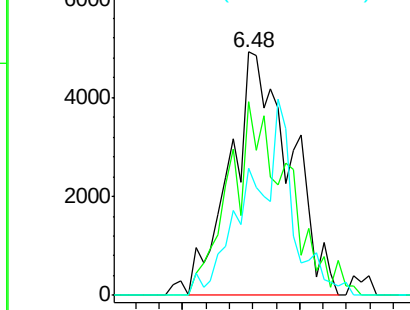
97 100

99 76.8 51.2 76.8

61 0.0 40.9 61.3#



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1358

Delta R.T. -0.03 min

Lab File: VL035204.D

Acq: 16 Jul 2020 21:42

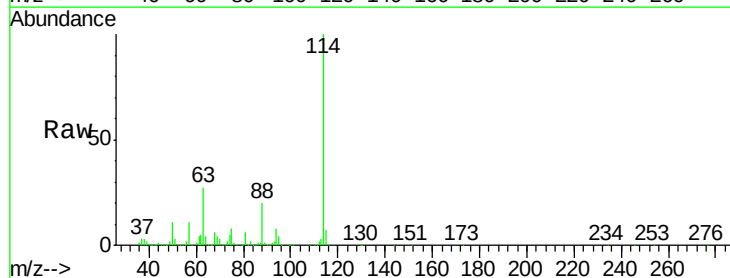
Tgt Ion: 114 Resp: 2510065

Ion Ratio Lower Upper

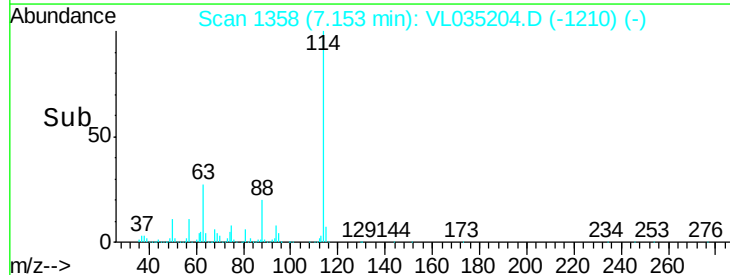
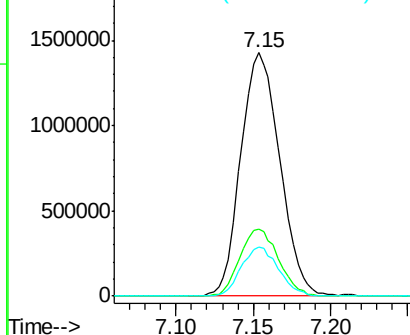
114 100

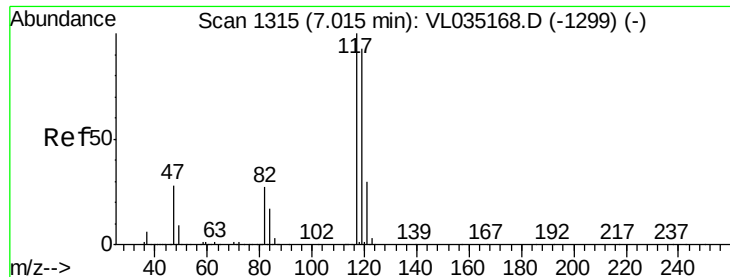
63 27.5 22.0 33.0

88 19.4 15.4 23.0



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#35

Carbon Tetrachloride

Concen: 0.057 ppbv m

RT: 7.00 min Scan# 1309

Delta R.T. -0.02 min

Lab File: VL035204.D

Acq: 16 Jul 2020 21:42

Instrument :

MSVOA_L

ClientSampleId :

PERM-02DUP

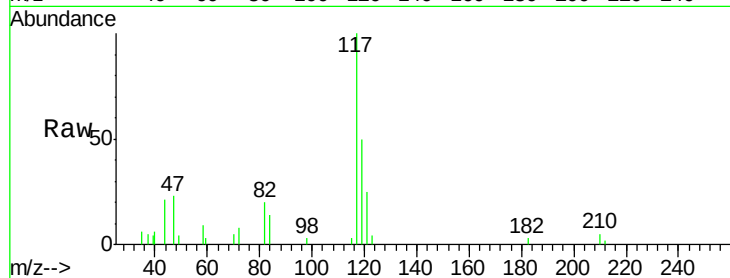
Tot Ion:117 Resp: 9270

Ion Ratio Lower Upper

117 100

119 49.6 74.8 112.2#

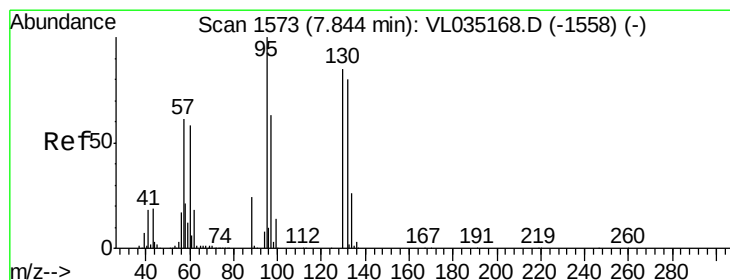
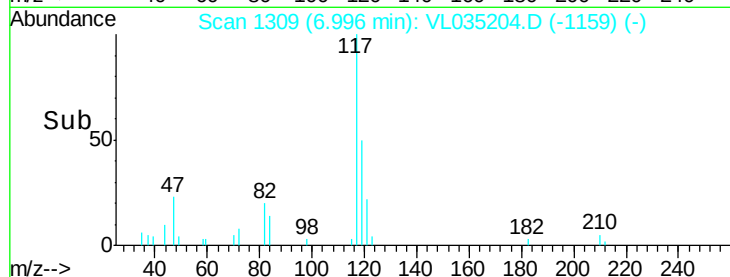
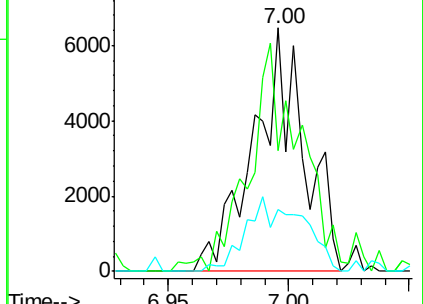
121 25.3 24.2 36.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#38

Trichloroethene

Concen: 0.048 ppbv m

RT: 7.83 min Scan# 1567

Delta R.T. -0.02 min

Lab File: VL035204.D

Acq: 16 Jul 2020 21:42

Tgt Ion:130 Resp: 3539

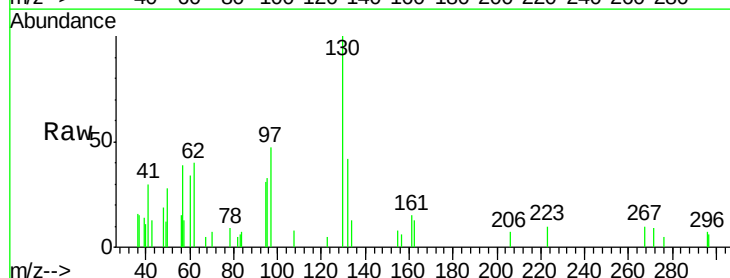
Ion Ratio Lower Upper

130 100

95 32.7 93.8 140.8#

132 42.3 75.0 112.4#

97 46.9 59.5 89.3#

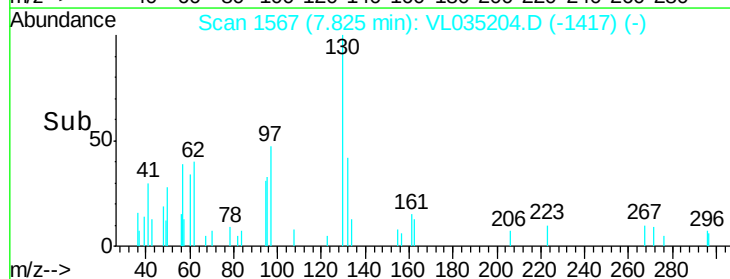
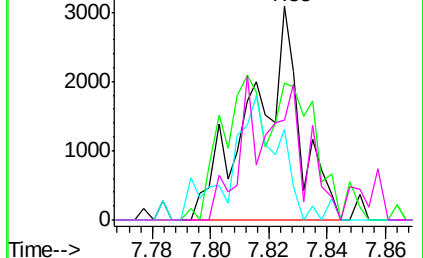


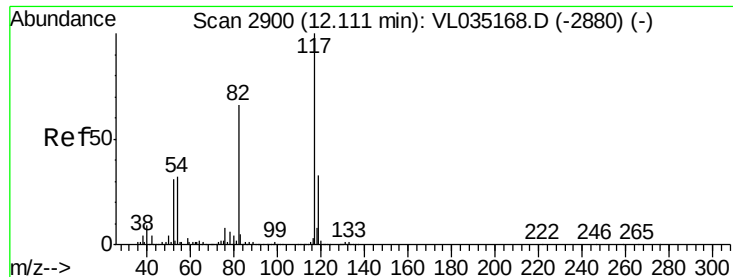
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

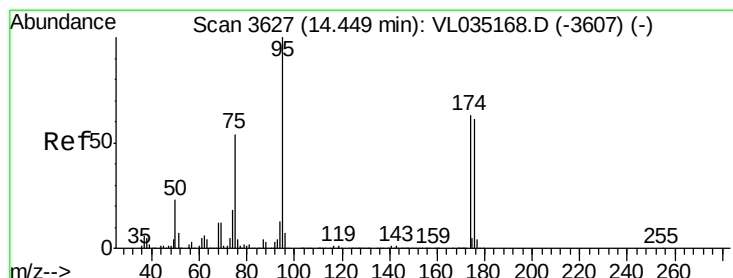
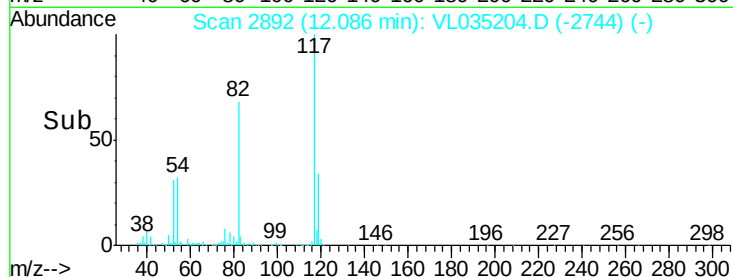
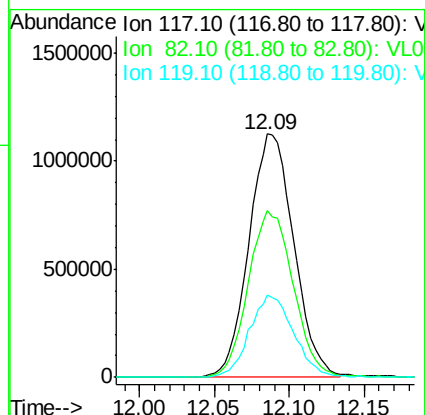
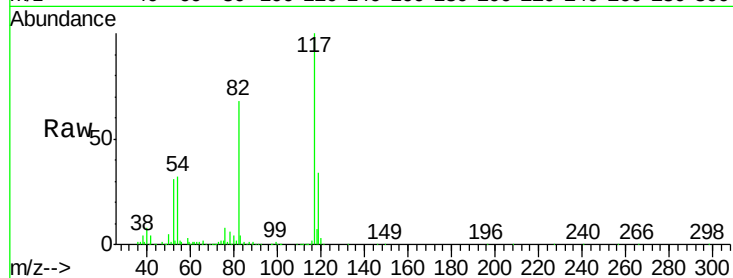




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.03 min
Lab File: VL035204.D
Acq: 16 Jul 2020 21:42

Instrument :
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PERM-02DUP

Tot Ion:117 Resp: 2347296
Ion Ratio Lower Upper
117 100
82 69.4 52.3 78.5
119 33.4 24.9 37.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.287 ppbv
RT: 14.42 min Scan# 3619
Delta R.T. -0.03 min
Lab File: VL035204.D
Acq: 16 Jul 2020 21:42

Tgt Ion: 95 Resp: 1961542
Ion Ratio Lower Upper
95 100
174 65.6 52.2 78.2
175 4.7 4.0 6.0

