

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL111919\
 Data File : VL034391.D
 Acq On : 19 Nov 2019 22:54
 Operator : SY/AP
 Sample : K5924-01DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Quant Time: Nov 20 04:06:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 20 03:30:54 2019
 QLast Update : Wed Nov 20 03:30:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	983316	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1922355	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1914774	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1616544	10.04	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.40%

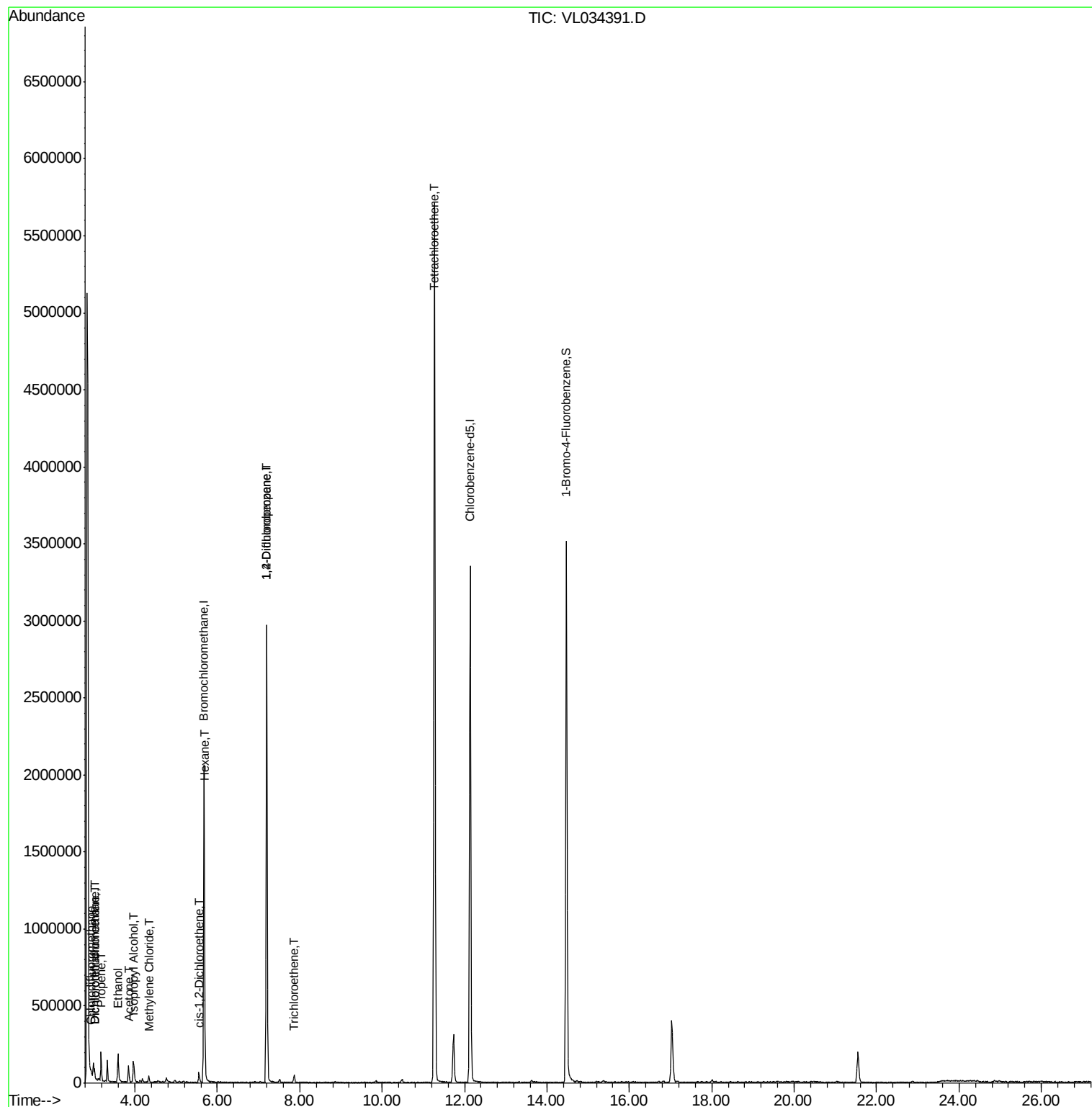
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	37227	0.209	ppbv	99
3) Chlorodifluoromethane	2.93	51	19495	0.159	ppbv #	76
8) Dichlorotetrafluoroethane	3.02	85	37227	0.233	ppbv #	18
9) Propene	3.18	41	46510	0.854	ppbv	98
13) Ethanol	3.59	45	181826	11.397	ppbv	93
15) Acetone	3.84	43	99291	0.705	ppbv	96
19) Isopropyl Alcohol	3.96	45	153265	1.497	ppbv #	97
20) Methylene Chloride	4.33	84	4461	0.089	ppbv #	66
26) Hexane	5.69	57	7908	0.073	ppbv #	28
31) cis-1,2-Dichloroethene	5.55	61	35258	0.316	ppbv	88
38) Trichloroethene	7.87	130	4466	0.057	ppbv	89
39) 1,2-Dichloropropane	7.20	63	574751	7.055	ppbv #	24
52) Tetrachloroethene	11.27	164	1389390	16.710	ppbv	98

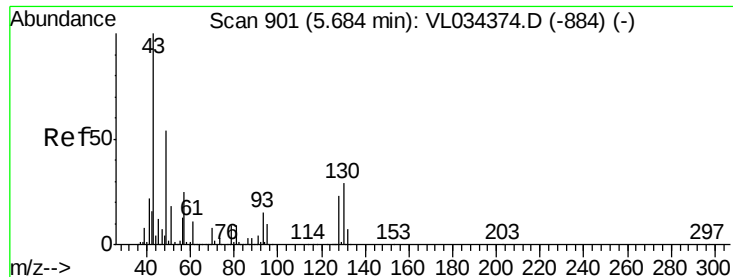
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
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QLast Update : Wed Nov 20 03:30:54 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.01 min

Lab File: VL034391.D

Acq: 19 Nov 2019 22:54

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

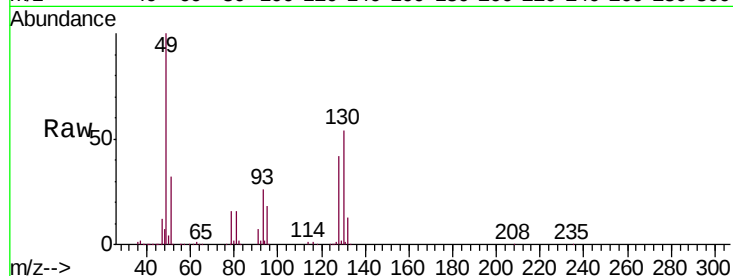
Tgt Ion: 49 Resp: 983316

Ion Ratio Lower Upper

49 100

128 43.7 21.8 65.3

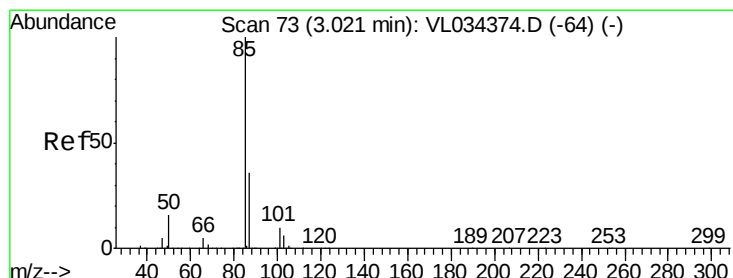
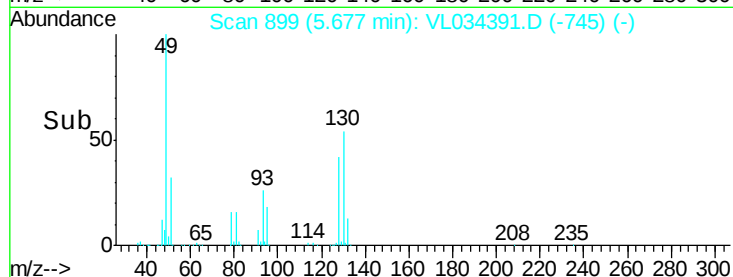
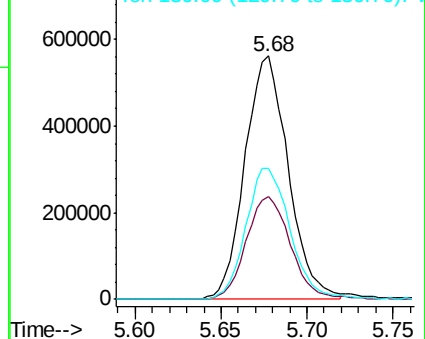
130 55.5 28.0 84.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.209 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL034391.D

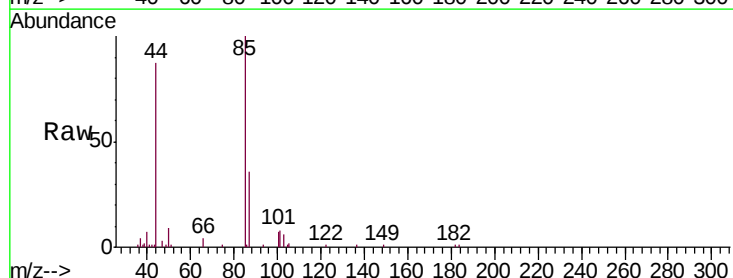
Acq: 19 Nov 2019 22:54

Tgt Ion: 85 Resp: 37227

Ion Ratio Lower Upper

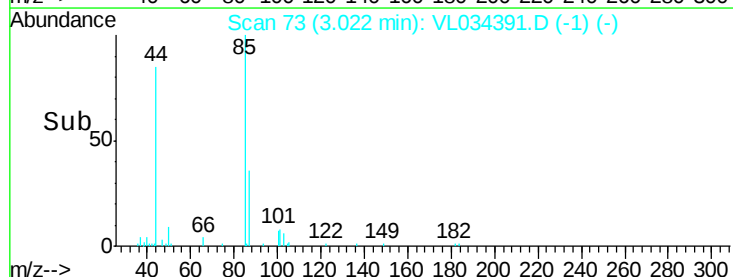
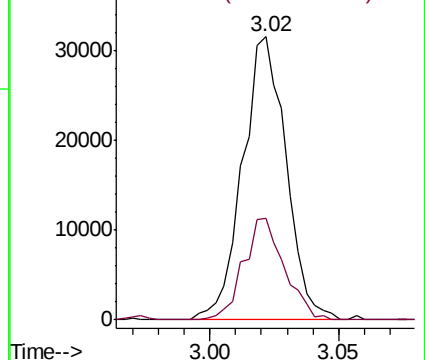
85 100

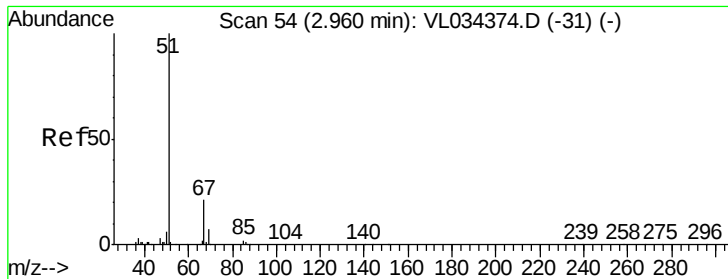
87 36.1 28.5 42.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.159 ppbv

RT: 2.93 min Scan# 46

Delta R.T. -0.03 min

Lab File: VL034391.D

Acq: 19 Nov 2019 22:54

Instrument :

MSVOA_L

ClientSampleId :

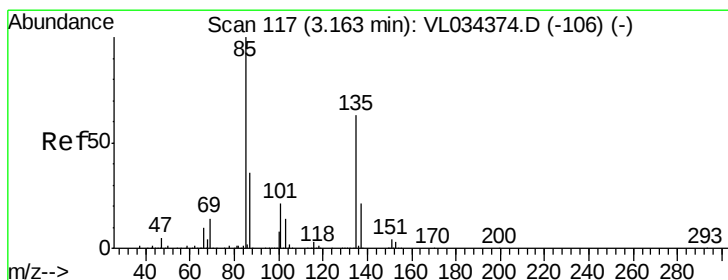
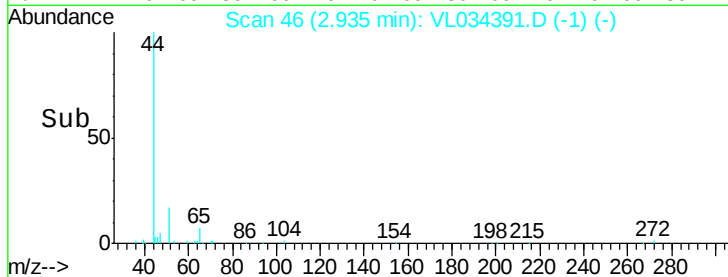
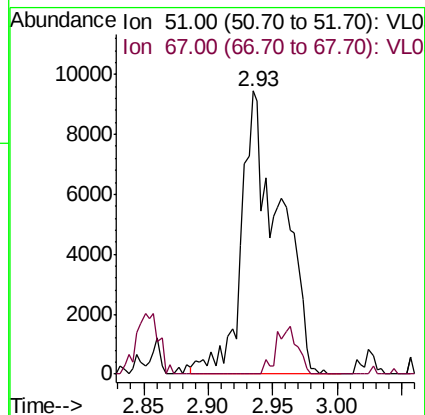
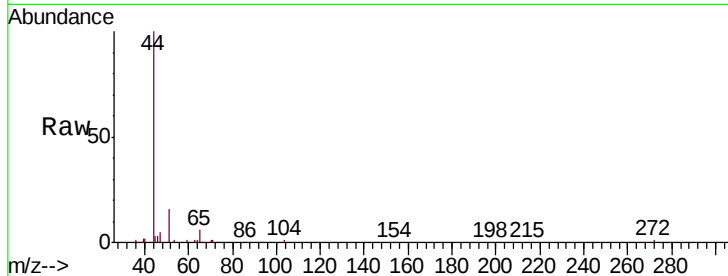
IA1DL

Tgt Ion: 51 Resp: 19495

Ion Ratio Lower Upper

51 100

67 9.3 16.2 24.2#



#8

Dichlorotetrafluoroethane

Concen: 0.233 ppbv

RT: 3.02 min Scan# 73

Delta R.T. -0.14 min

Lab File: VL034391.D

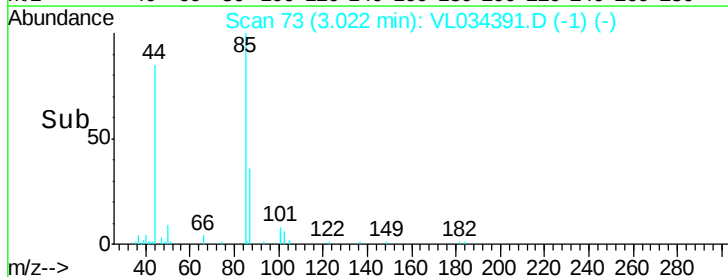
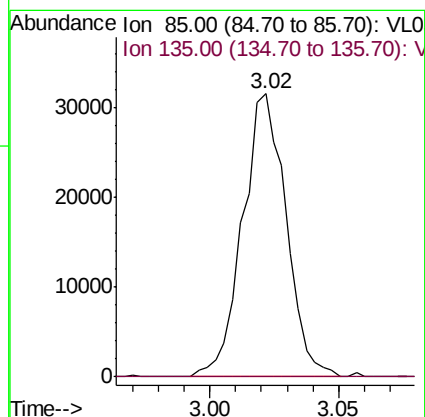
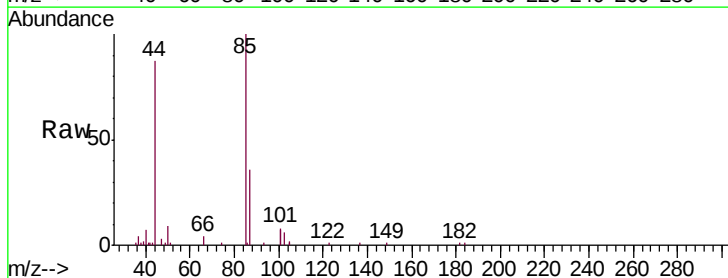
Acq: 19 Nov 2019 22:54

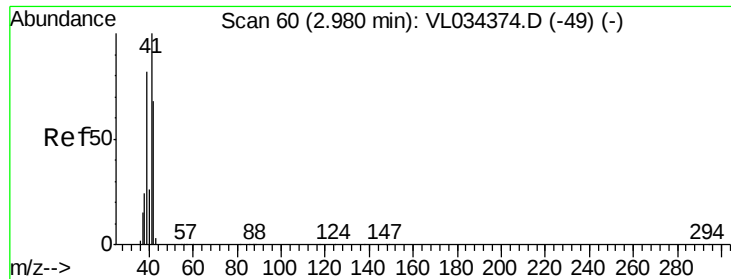
Tgt Ion: 85 Resp: 37227

Ion Ratio Lower Upper

85 100

135 0.0 51.1 76.7#





#9

Propene

Concen: 0.854 ppbv

RT: 3.18 min Scan# 123

Delta R.T. 0.20 min

Lab File: VL034391.D

Acq: 19 Nov 2019 22:54

Instrument :

MSVOA_L

ClientSampleId :

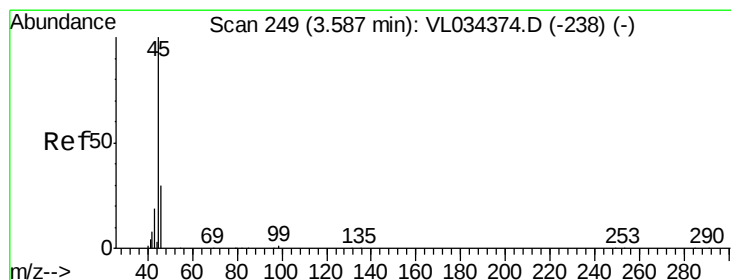
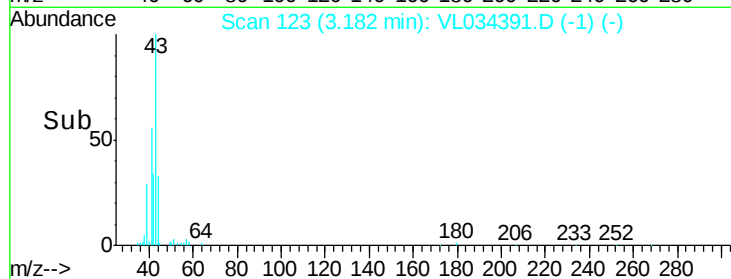
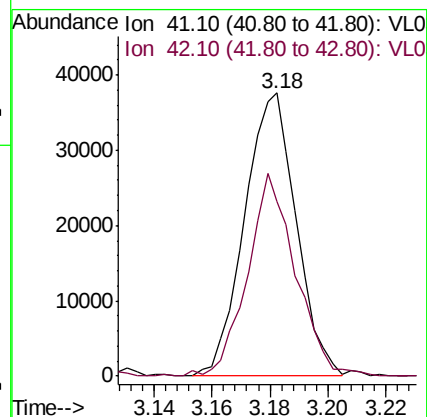
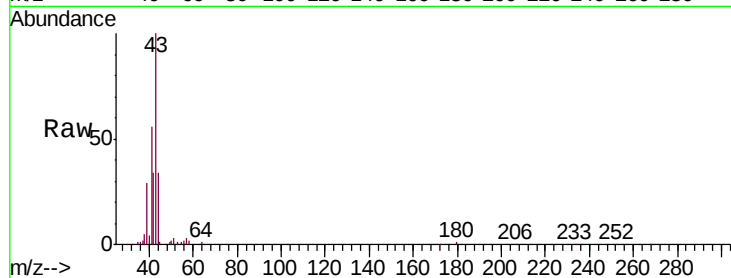
IA1DL

Tgt Ion: 41 Resp: 46510

Ion Ratio Lower Upper

41 100

42 66.5 54.6 82.0



#13

Ethanol

Concen: 11.397 ppbv

RT: 3.59 min Scan# 249

Delta R.T. 0.00 min

Lab File: VL034391.D

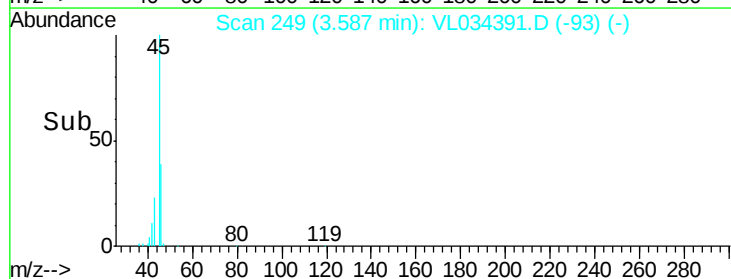
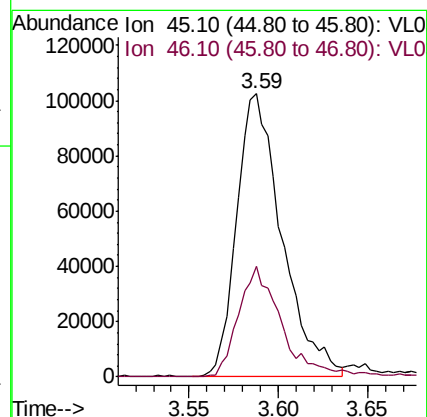
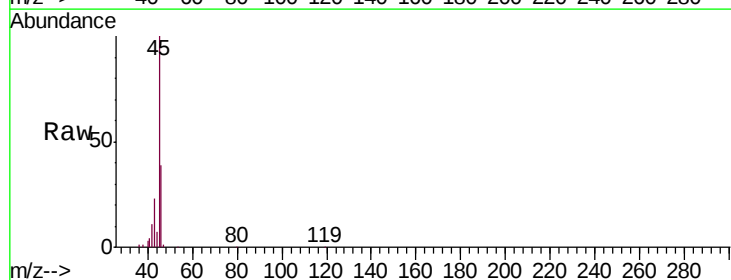
Acq: 19 Nov 2019 22:54

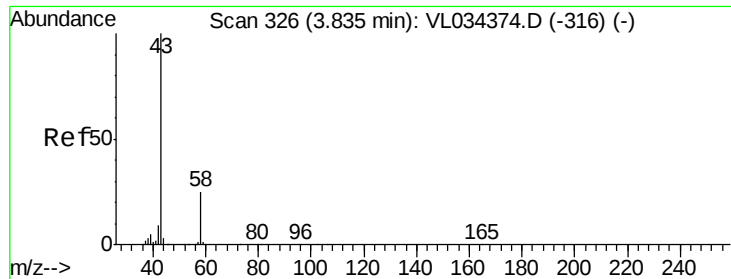
Tgt Ion: 45 Resp: 181826

Ion Ratio Lower Upper

45 100

46 38.4 13.8 55.4





#15

Acetone

Concen: 0.705 ppbv

RT: 3.84 min Scan# 329

Delta R.T. 0.01 min

Lab File: VL034391.D

Acq: 19 Nov 2019 22:54

Instrument :

MSVOA_L

ClientSampleId :

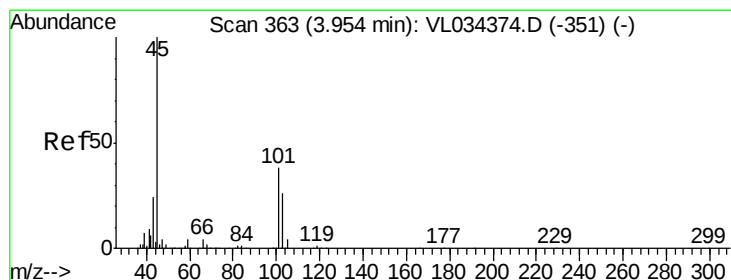
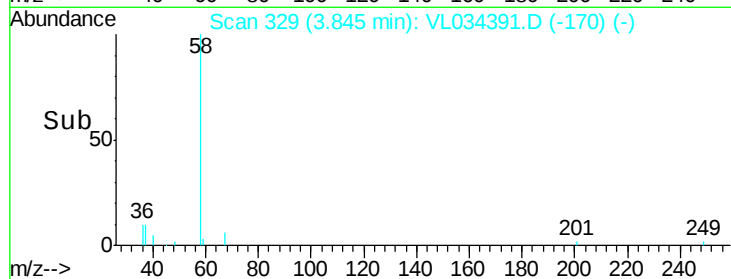
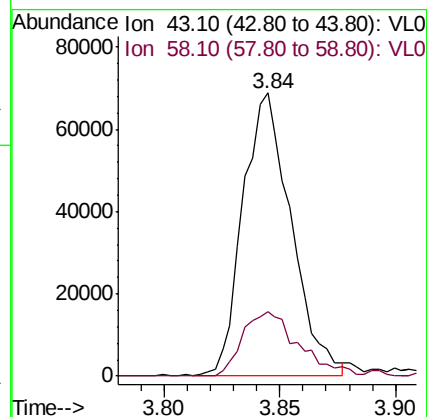
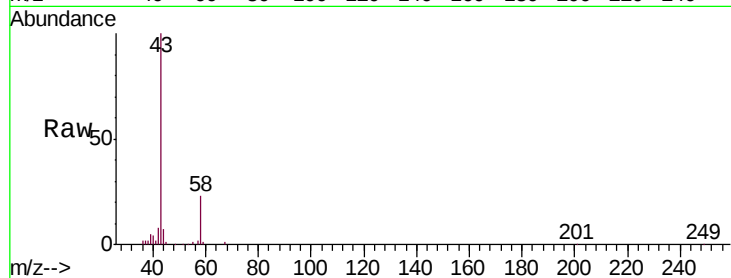
IA1DL

Tgt Ion: 43 Resp: 99291

Ion Ratio Lower Upper

43 100

58 27.5 20.2 30.4



#19

Isopropyl Alcohol

Concen: 1.497 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL034391.D

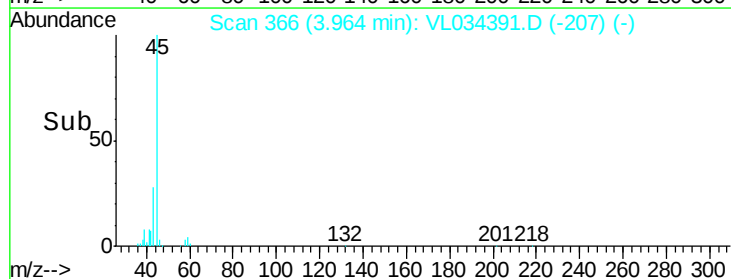
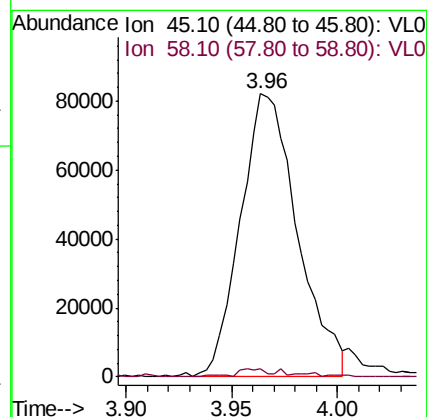
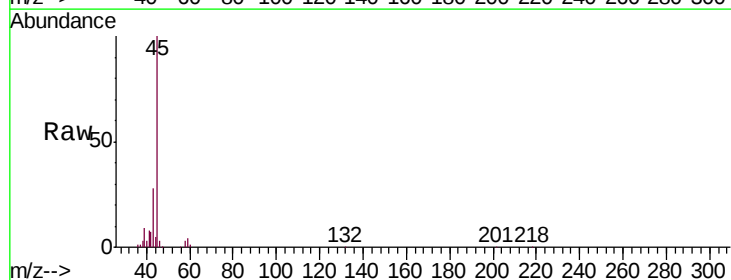
Acq: 19 Nov 2019 22:54

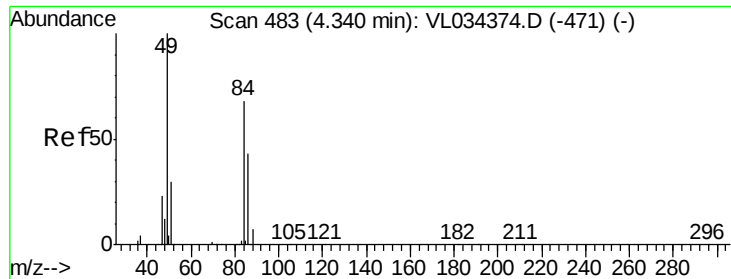
Tgt Ion: 45 Resp: 153265

Ion Ratio Lower Upper

45 100

58 2.8 1.3 1.9#

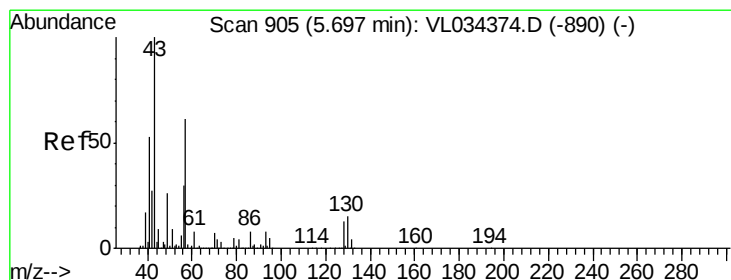
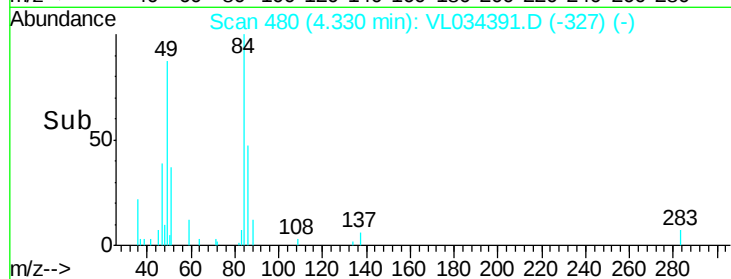
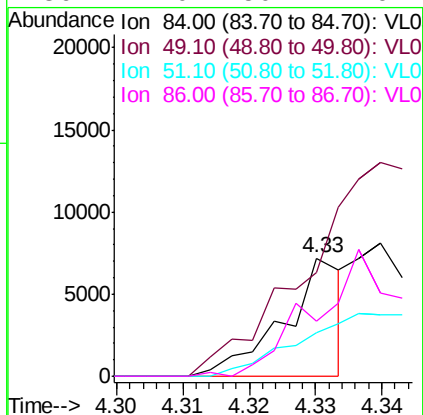
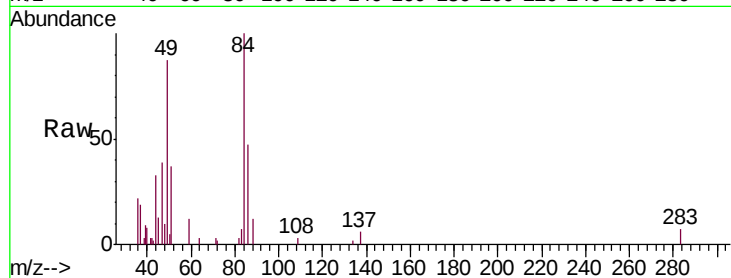




#20
Methylene Chloride
Concen: 0.089 ppbv
RT: 4.33 min Scan# 480
Delta R.T. -0.01 min
Lab File: VL034391.D
Acq: 19 Nov 2019 22:54

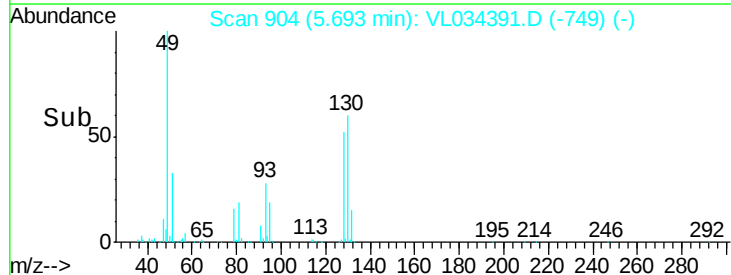
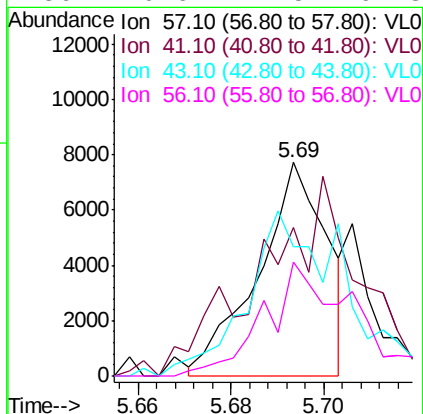
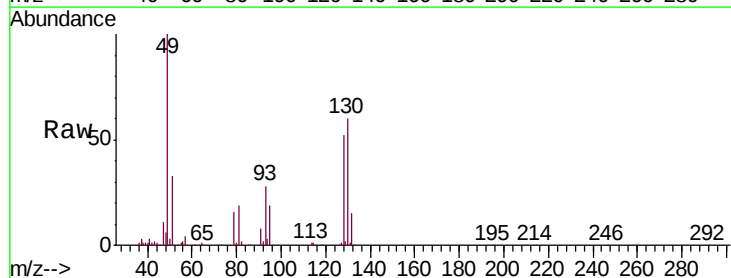
Instrument :
MSVOA_L
ClientSampled :
IA1DL

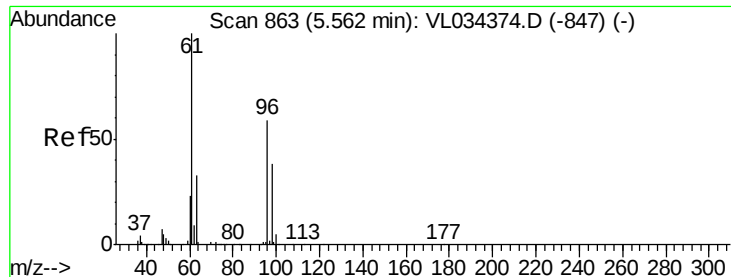
Tgt Ion:	84	Resp:	4461
Ion	Ratio	Lower	Upper
84	100		
49	87.3	116.8	175.2#
51	37.4	35.6	53.4
86	47.0	50.7	76.1#



#26
Hexane
Concen: 0.073 ppbv
RT: 5.69 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL034391.D
Acq: 19 Nov 2019 22:54

Tgt Ion:	57	Resp:	7908
Ion	Ratio	Lower	Upper
57	100		
41	0.0	75.0	112.4#
43	113.2	186.6	279.8#
56	70.6	41.5	62.3#





#31

cis-1,2-Dichloroethene

Concen: 0.316 ppbv

RT: 5.55 min Scan# 860

Delta R.T. -0.01 min

Lab File: VL034391.D

Acq: 19 Nov 2019 22:54

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

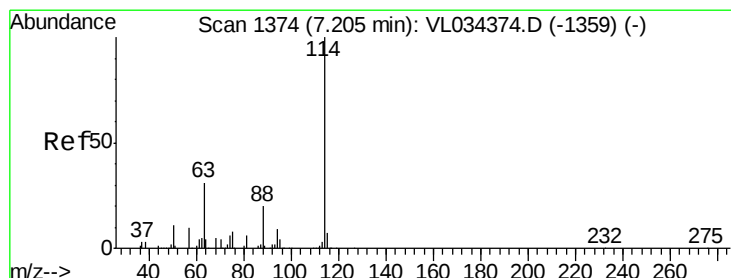
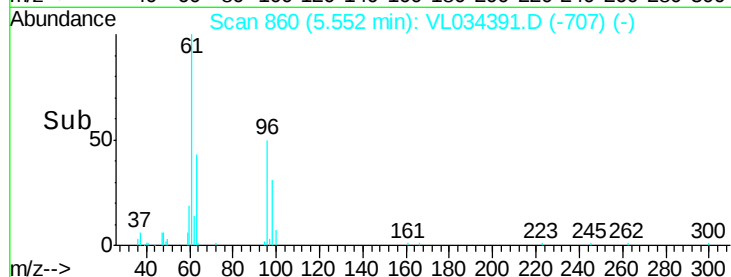
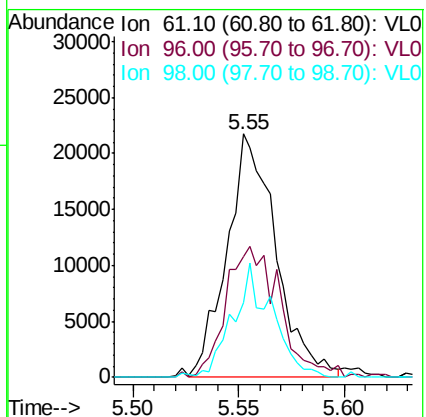
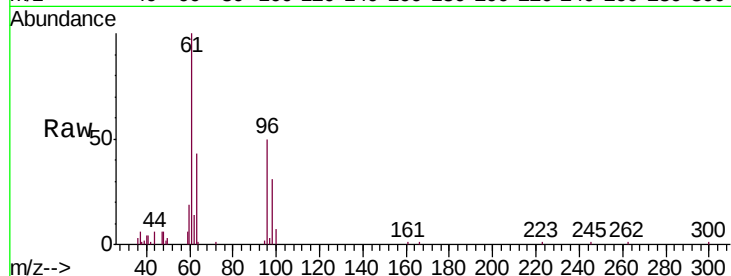
Tgt Ion: 61 Resp: 35258

Ion Ratio Lower Upper

61 100

96 50.0 47.4 71.2

98 31.0 30.6 45.8



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 min Scan# 1372

Delta R.T. -0.01 min

Lab File: VL034391.D

Acq: 19 Nov 2019 22:54

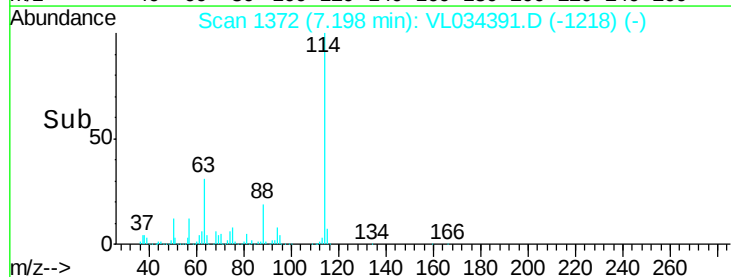
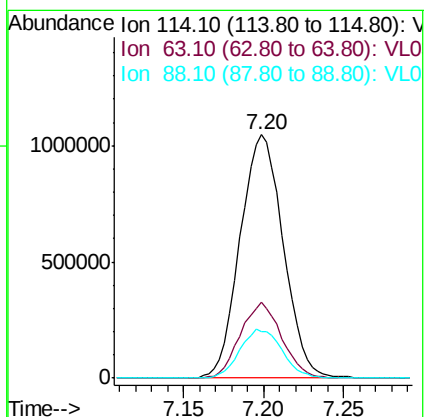
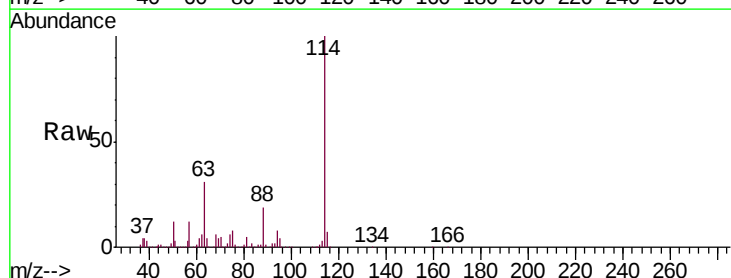
Tgt Ion: 114 Resp: 1922355

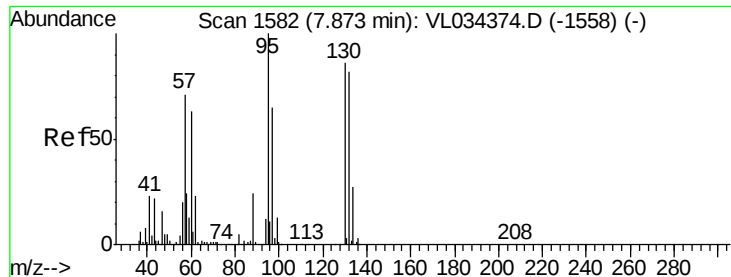
Ion Ratio Lower Upper

114 100

63 30.1 24.2 36.4

88 19.9 15.9 23.9





#38

Trichloroethene

Concen: 0.057 ppbv

RT: 7.87 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VL034391.D

Acq: 19 Nov 2019 22:54

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

Tgt Ion:130 Resp: 4466

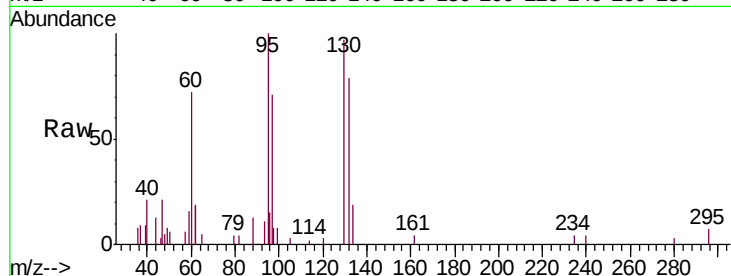
Ion Ratio Lower Upper

130 100

95 103.2 93.4 140.0

132 81.3 76.4 114.6

97 81.4 61.1 91.7

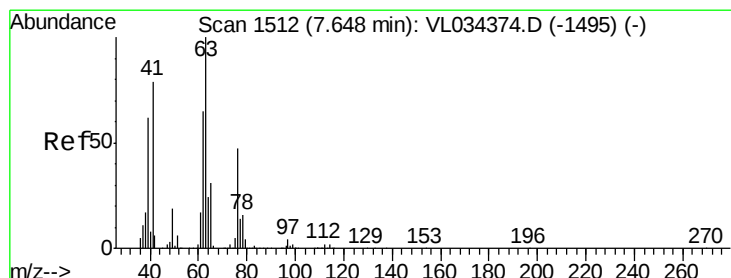
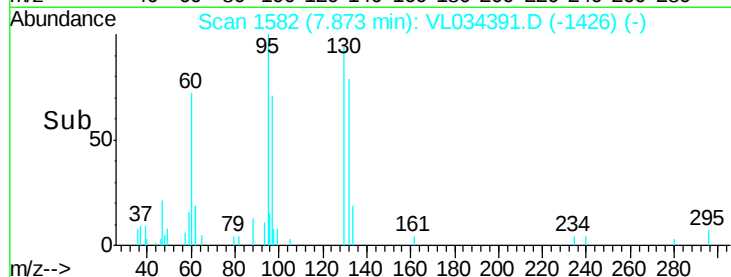
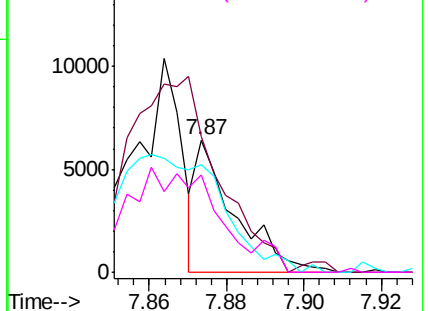


Abundance Ion 130.00 (129.70 to 130.70): V

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



#39

1,2-Dichloropropane

Concen: 7.055 ppbv

RT: 7.20 min Scan# 1372

Delta R.T. -0.45 min

Lab File: VL034391.D

Acq: 19 Nov 2019 22:54

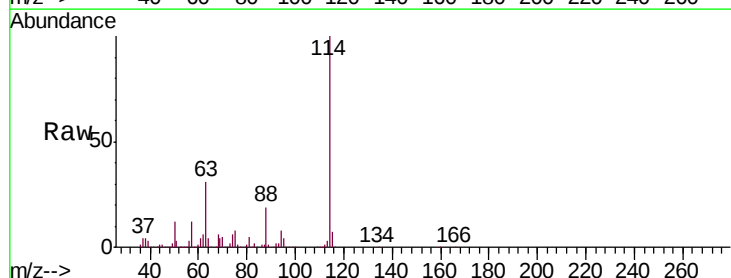
Tgt Ion: 63 Resp: 574751

Ion Ratio Lower Upper

63 100

41 0.1 63.1 94.7#

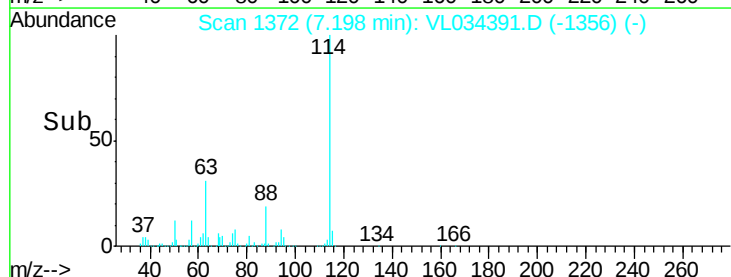
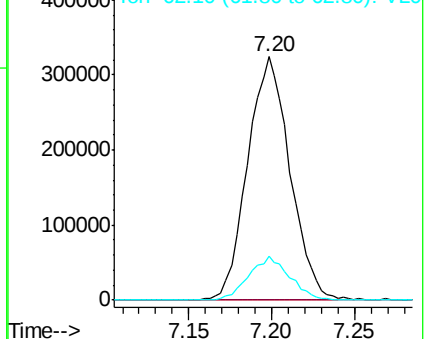
62 18.1 52.3 78.5#

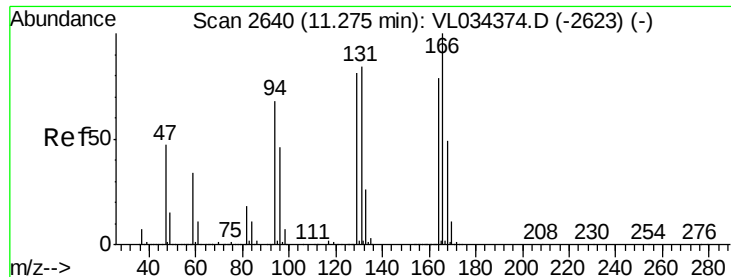


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 16.710 ppbv

RT: 11.27 min Scan# 2639

Delta R.T. -0.00 min

Lab File: VL034391.D

Acq: 19 Nov 2019 22:54

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

Tgt Ion:164 Resp: 1389390

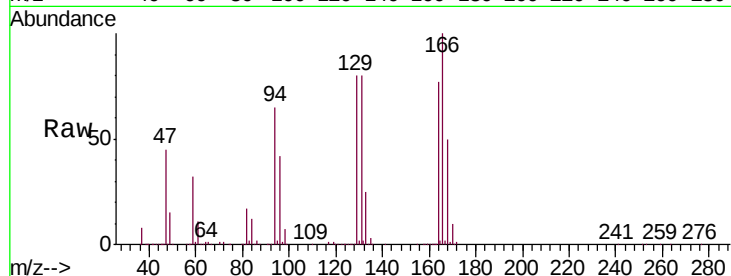
Ion Ratio Lower Upper

164 100

166 129.1 101.7 152.5

129 103.1 82.6 123.8

131 102.9 85.2 127.8

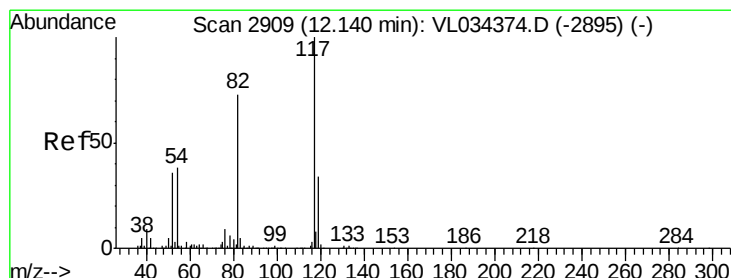
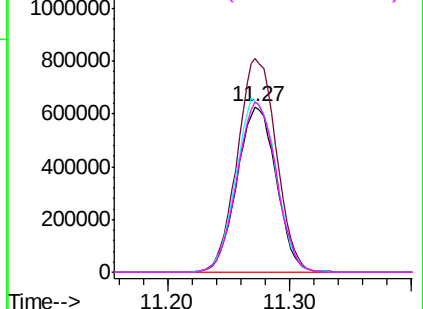
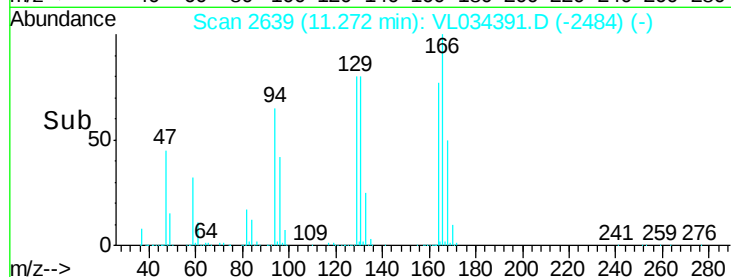


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.14 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VL034391.D

Acq: 19 Nov 2019 22:54

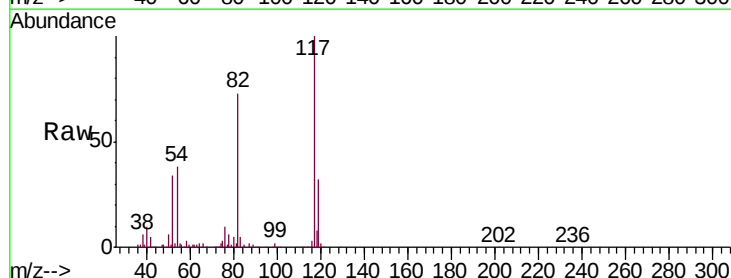
Tgt Ion:117 Resp: 1914774

Ion Ratio Lower Upper

117 100

82 72.9 57.5 86.3

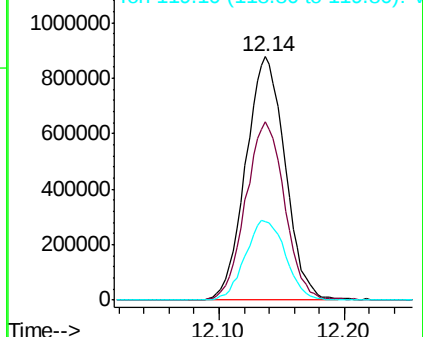
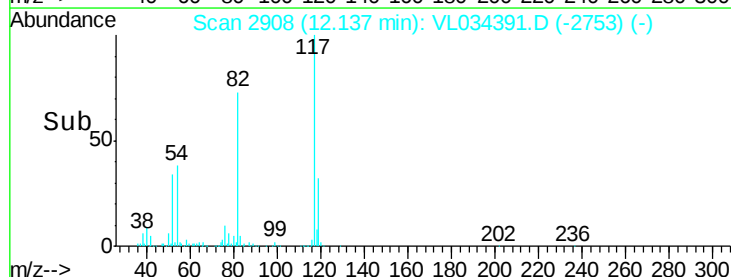
119 33.5 25.4 38.2

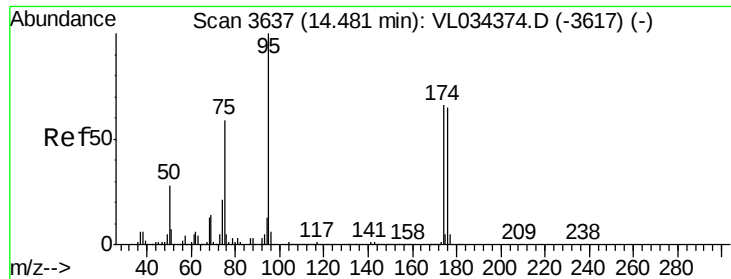


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.035 ppbv

RT: 14.47 min Scan# 3635

Delta R.T. -0.01 min

Lab File: VL034391.D

Acq: 19 Nov 2019 22:54

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

Tgt Ion: 95 Resp: 1616544

Ion Ratio Lower Upper

95 100

174 65.6 52.2 78.2

175 4.9 3.8 5.8

