

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121718\
 Data File : VL033005.D
 Acq On : 17 Dec 2018 21:12
 Operator : SY/AP
 Sample : J6382-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 18 01:16:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 09:35:17 2018
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1313975	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3181562	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3464299	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2504277	9.78	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.80%

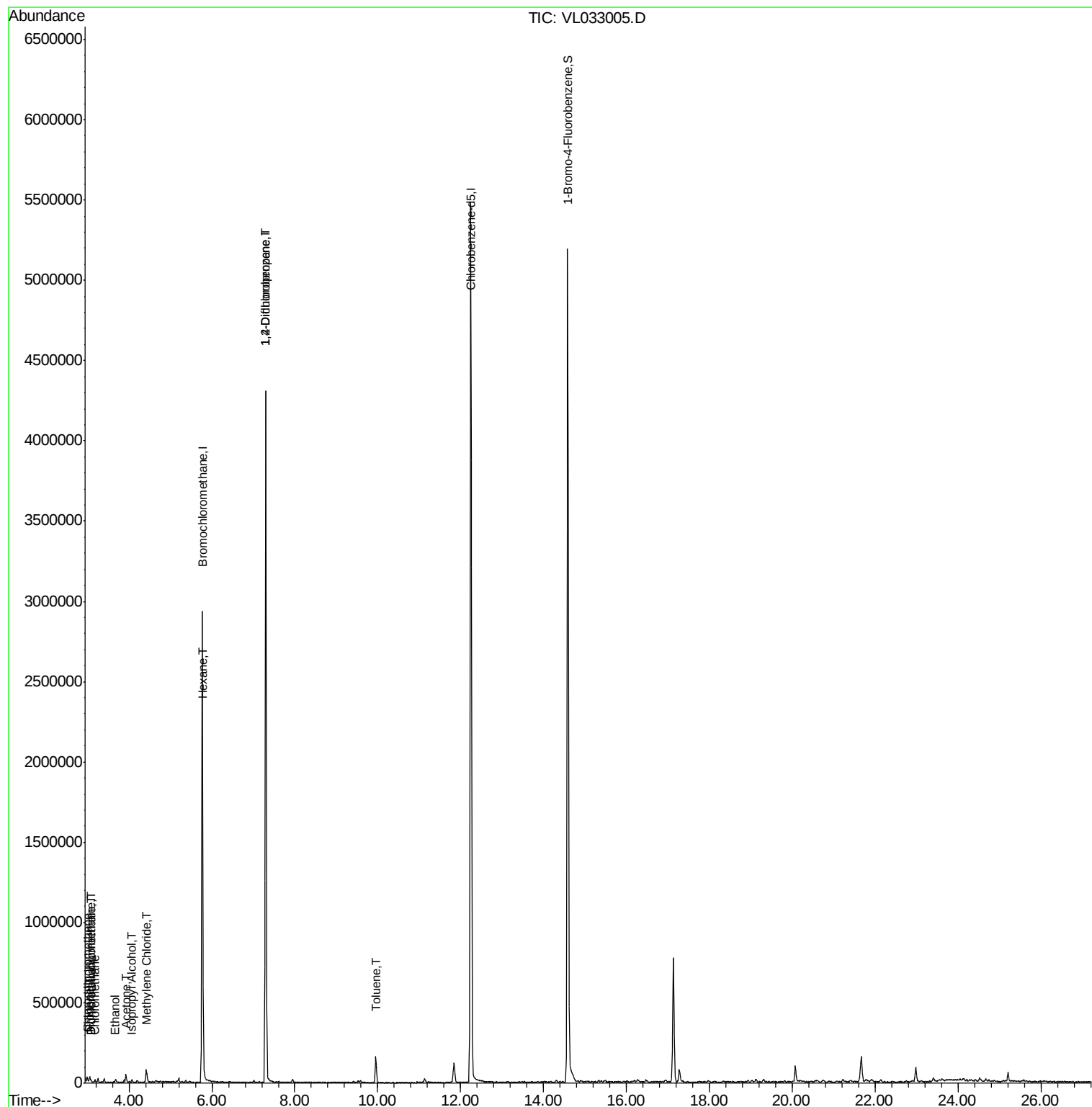
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	10953	0.062	ppbv	91
3) Chlorodifluoromethane	2.99	51	18889	0.190	ppbv #	65
4) Chloromethane	3.18	50	9869	0.170	ppbv #	83
8) Dichlorotetrafluoroethane	3.08	85	10953	0.075	ppbv #	17
9) Propene	3.04	41	2278	0.058	ppbv #	15
13) Ethanol	3.67	45	16497	1.218	ppbv	95
15) Acetone	3.93	43	44768	0.397	ppbv	95
19) Isopropyl Alcohol	4.07	45	4750	0.067	ppbv #	95
20) Methylene Chloride	4.42	84	24265	0.440	ppbv #	94
26) Hexane	5.79	57	18678	0.152	ppbv #	54
39) 1,2-Dichloropropane	7.30	63	736376	8.297	ppbv #	21
53) Toluene	9.95	91	120841	0.487	ppbv	97

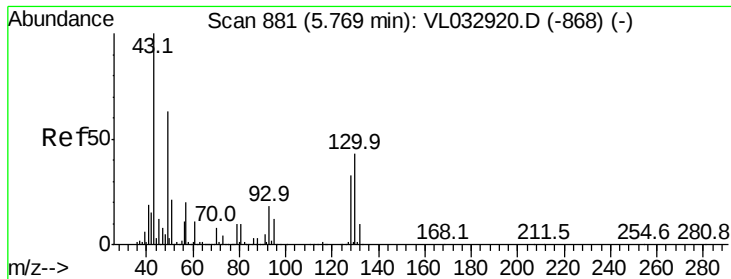
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Dec 07 09:35:17 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033005.D

Acq: 17 Dec 2018 21:12

Instrument :
MSVOA_L
ClientSampleId :

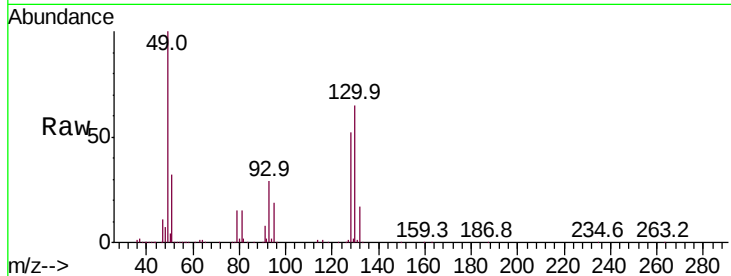
Tot Ion: 49 Resp: 1313975

Ion Ratio Lower Upper

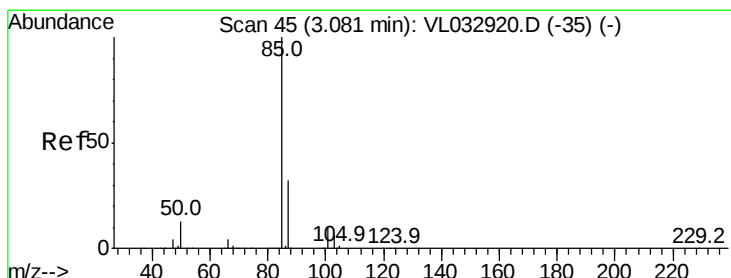
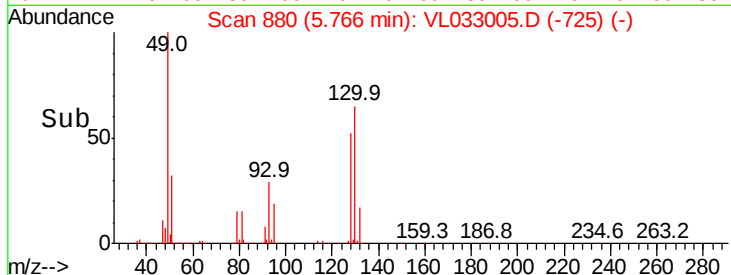
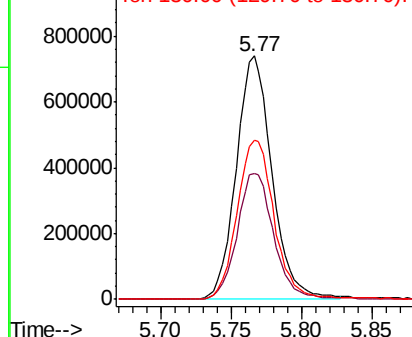
49 100

128 53.4 26.3 78.8

130 68.5 33.9 101.7



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



#2

Dichlorodifluoromethane

Concen: 0.062 ppbv

RT: 3.08 min Scan# 45

Delta R.T. 0.00 min

Lab File: VL033005.D

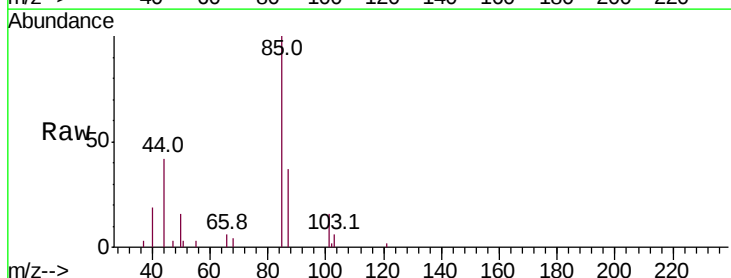
Acq: 17 Dec 2018 21:12

Tgt Ion: 85 Resp: 10953

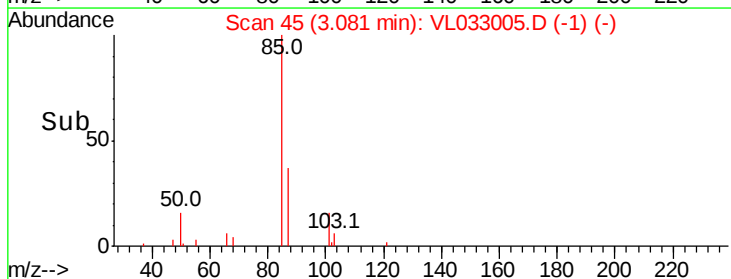
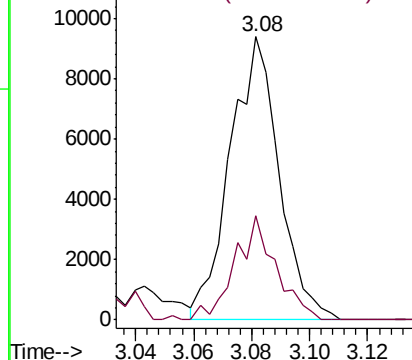
Ion Ratio Lower Upper

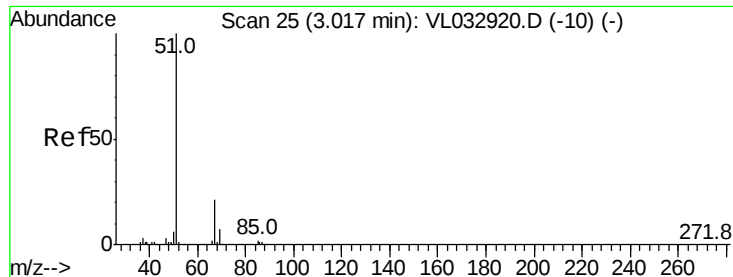
85 100

87 37.0 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.190 ppbv

RT: 2.99 min Scan# 18

Delta R.T. -0.02 min

Lab File: VL033005.D

Acq: 17 Dec 2018 21:12

Instrument :

MSVOA_L

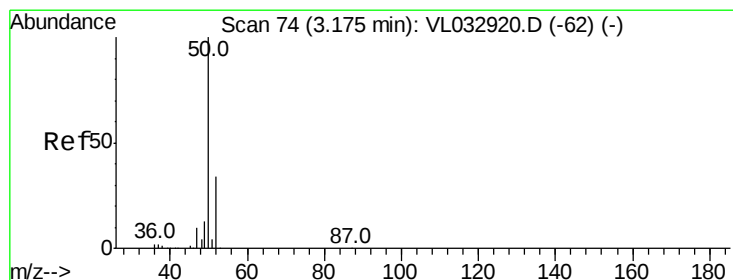
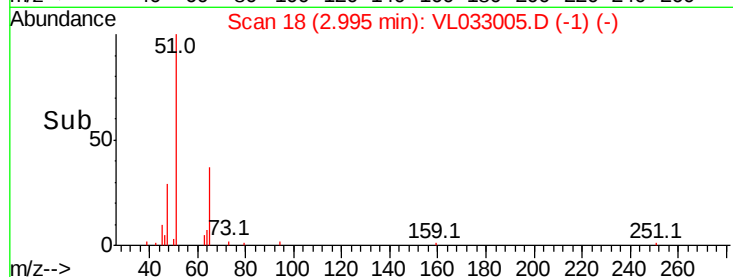
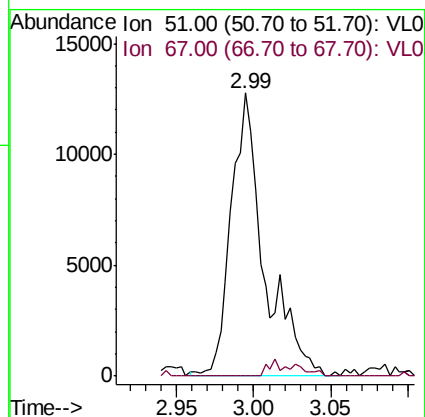
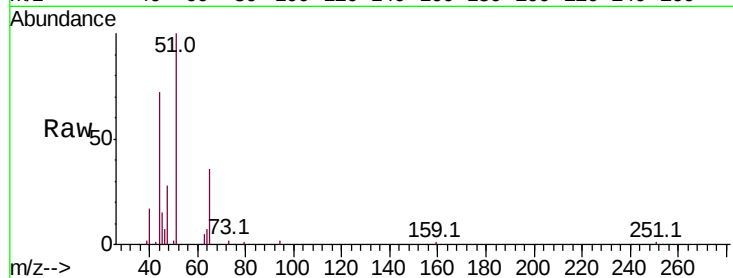
ClientSampleId :

Tot Ion: 51 Resp: 18889

Ion Ratio Lower Upper

51 100

67 4.4 16.8 25.2#



#4

Chloromethane

Concen: 0.170 ppbv

RT: 3.18 min Scan# 75

Delta R.T. 0.00 min

Lab File: VL033005.D

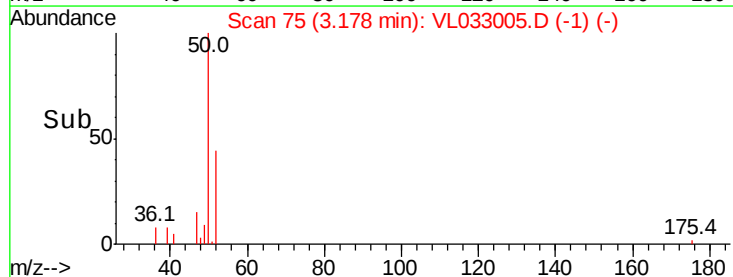
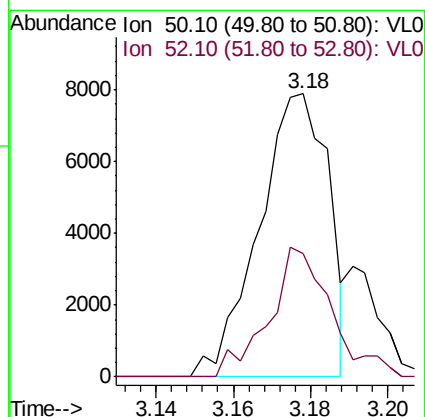
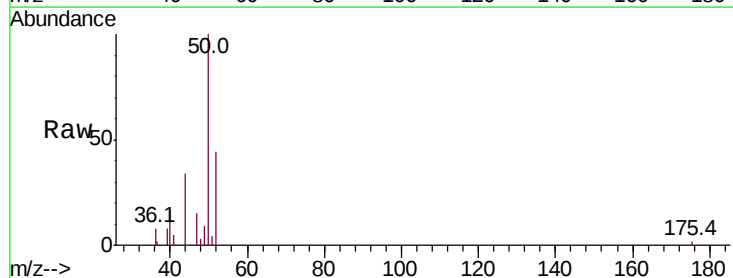
Acq: 17 Dec 2018 21:12

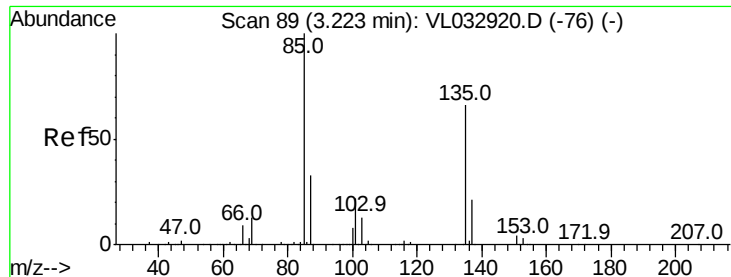
Tgt Ion: 50 Resp: 9869

Ion Ratio Lower Upper

50 100

52 43.6 27.3 40.9#





#8

Dichlorotetrafluoroethane

Concen: 0.075 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.14 min

Lab File: VL033005.D

Acq: 17 Dec 2018 21:12

Instrument :

MSVOA_L

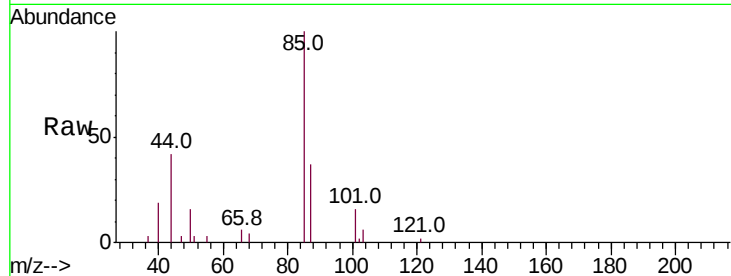
ClientSampleId :

Tot Ion: 85 Resp: 10953

Ion Ratio Lower Upper

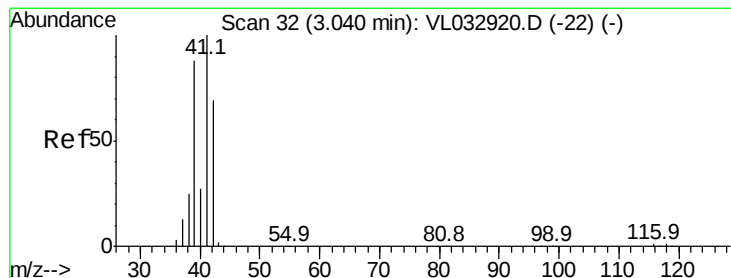
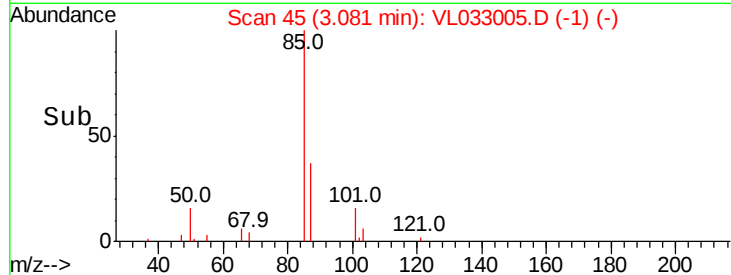
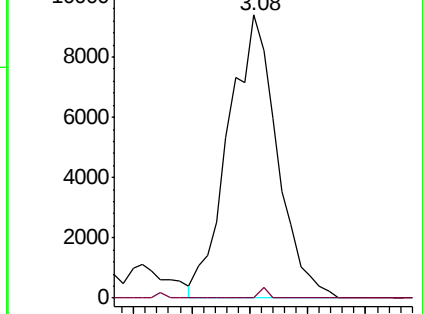
85 100

135 0.6 54.5 81.7#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0



#9

Propene

Concen: 0.058 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.00 min

Lab File: VL033005.D

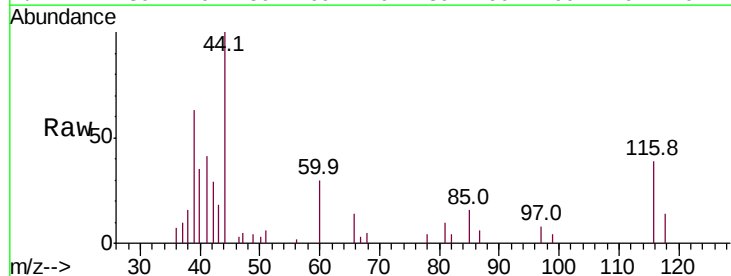
Acq: 17 Dec 2018 21:12

Tgt Ion: 41 Resp: 2278

Ion Ratio Lower Upper

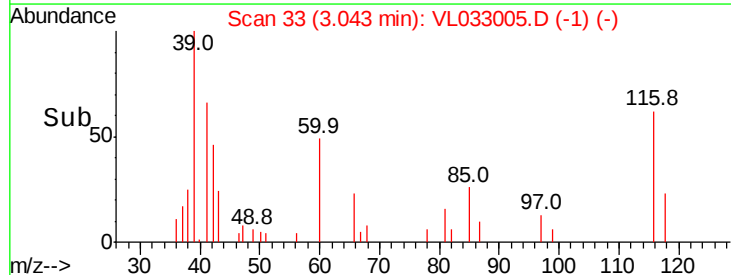
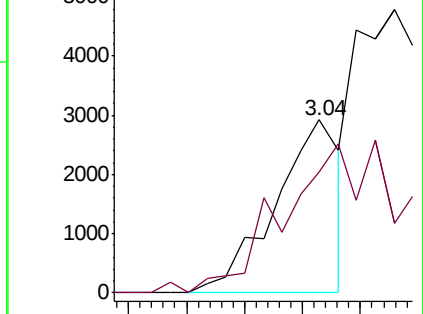
41 100

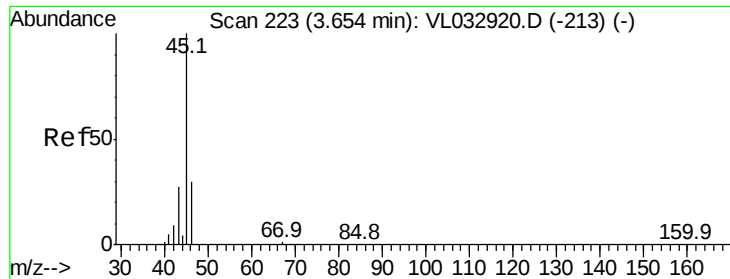
42 0.0 56.2 84.2#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 1.218 ppbv

RT: 3.67 min Scan# 228

Delta R.T. 0.02 min

Lab File: VL033005.D

Acq: 17 Dec 2018 21:12

Instrument :

MSVOA_L

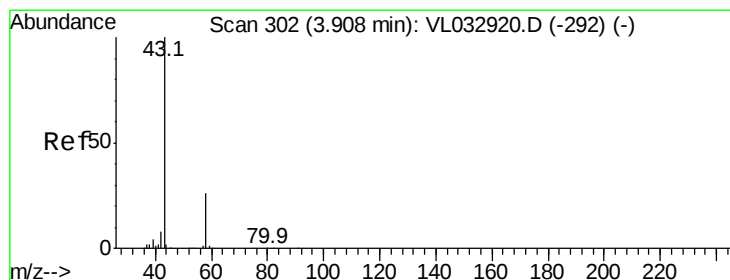
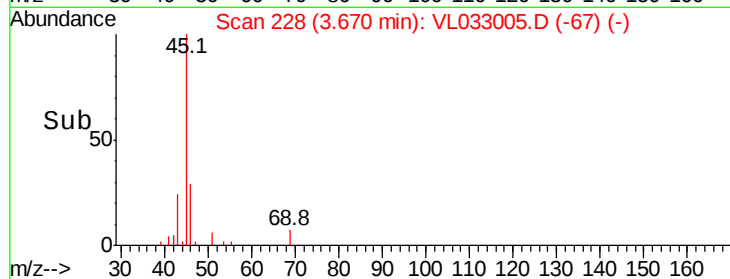
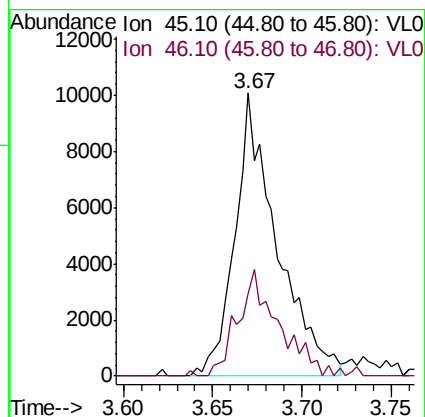
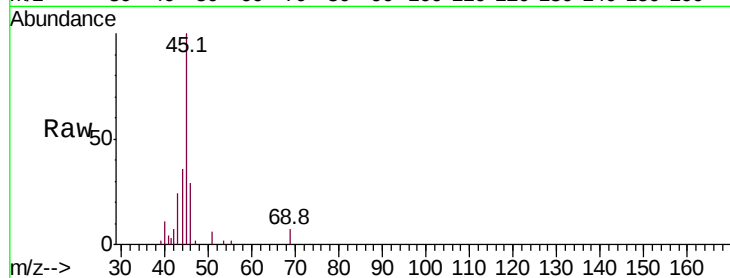
ClientSampleId :

Tot Ion: 45 Resp: 16497

Ion Ratio Lower Upper

45 100

46 37.6 13.8 55.4



#15

Acetone

Concen: 0.397 ppbv

RT: 3.93 min Scan# 308

Delta R.T. 0.02 min

Lab File: VL033005.D

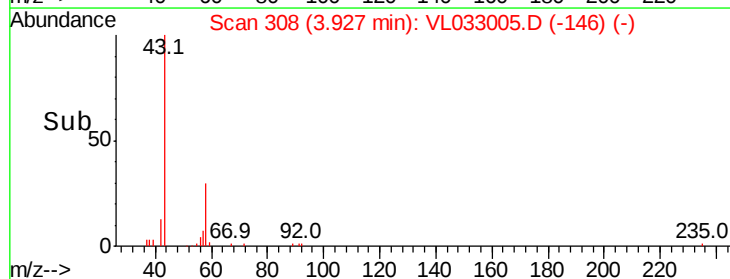
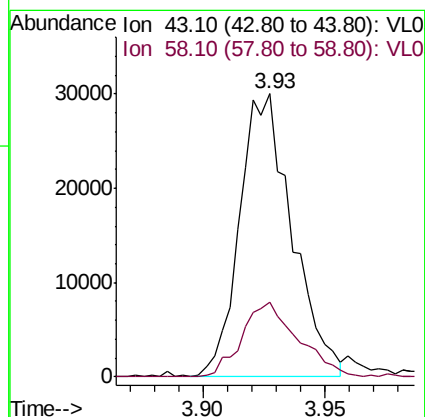
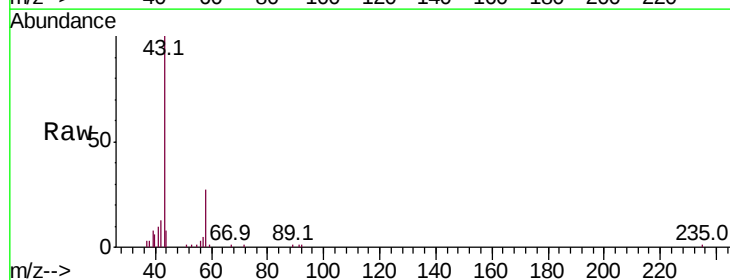
Acq: 17 Dec 2018 21:12

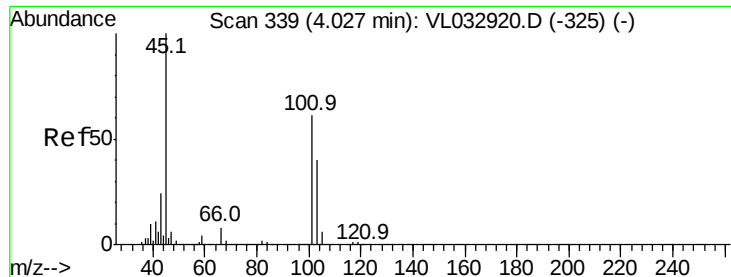
Tgt Ion: 43 Resp: 44768

Ion Ratio Lower Upper

43 100

58 28.4 20.6 30.8





#19

Isopropyl Alcohol

Concen: 0.067 ppbv

RT: 4.07 min Scan# 352

Delta R.T. 0.04 min

Lab File: VL033005.D

Acq: 17 Dec 2018 21:12

Instrument :

MSVOA_L

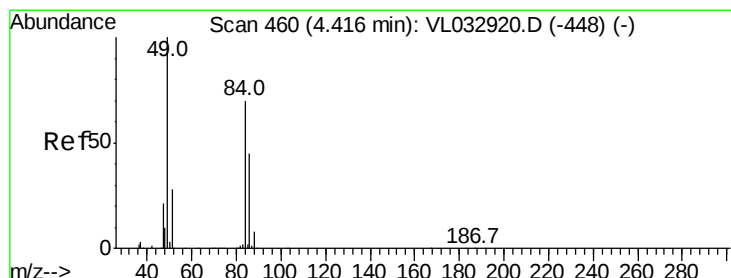
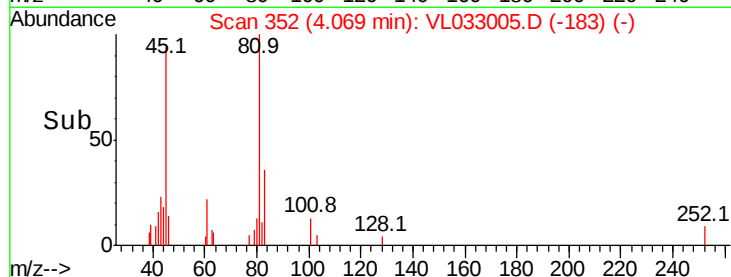
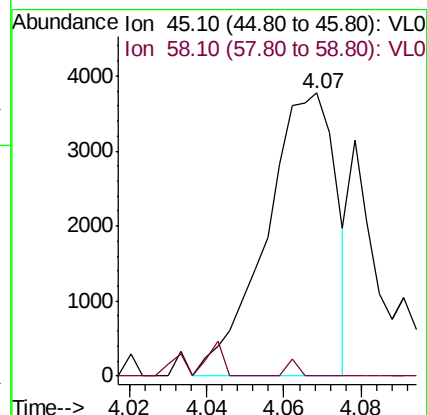
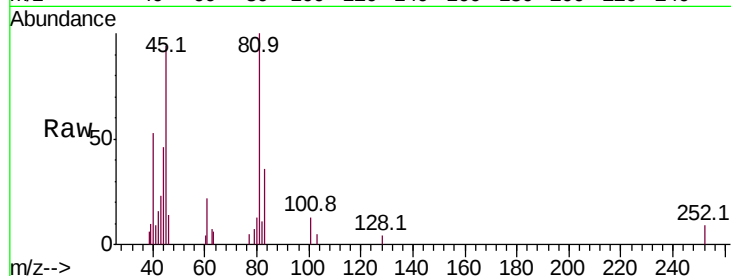
ClientSampleId :

Tot Ion: 45 Resp: 4750

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#



#20

Methylene Chloride

Concen: 0.440 ppbv

RT: 4.42 min Scan# 460

Delta R.T. 0.00 min

Lab File: VL033005.D

Acq: 17 Dec 2018 21:12

Tgt Ion: 84 Resp: 24265

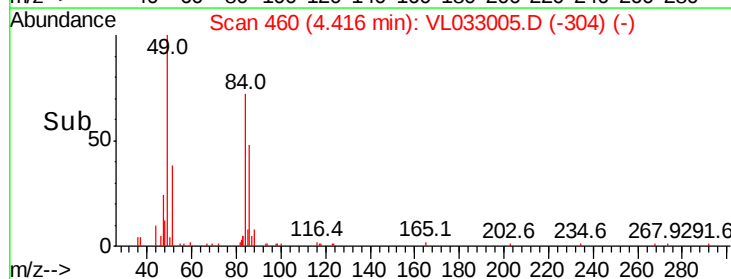
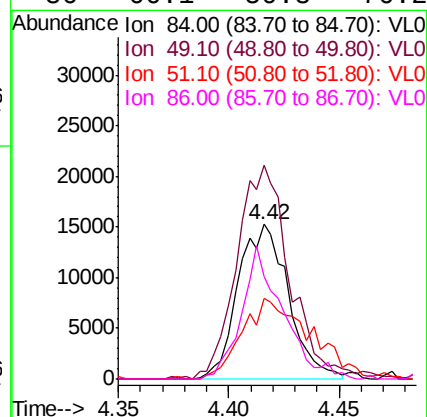
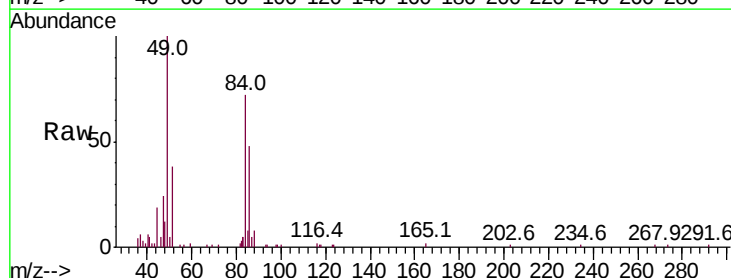
Ion Ratio Lower Upper

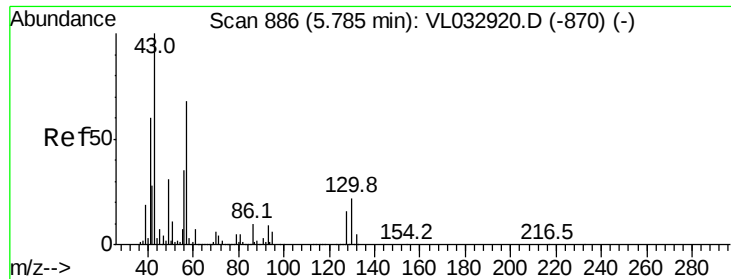
84 100

49 138.2 113.8 170.8

51 51.8 31.8 47.8#

86 66.1 50.8 76.2

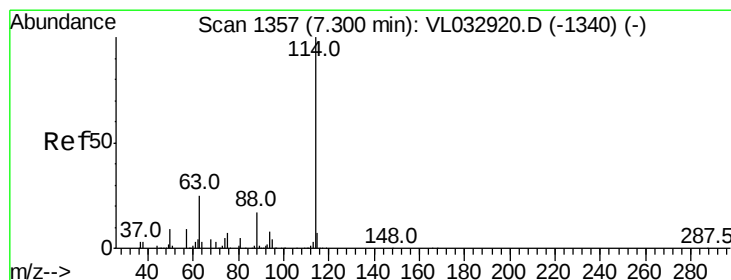
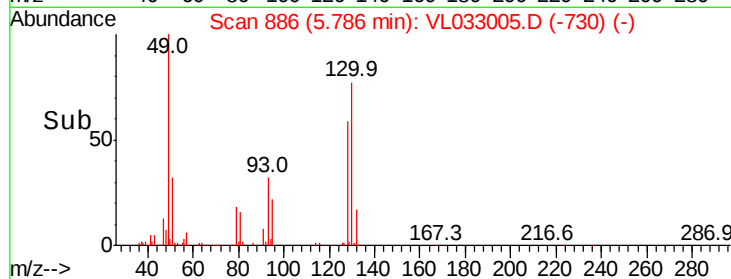
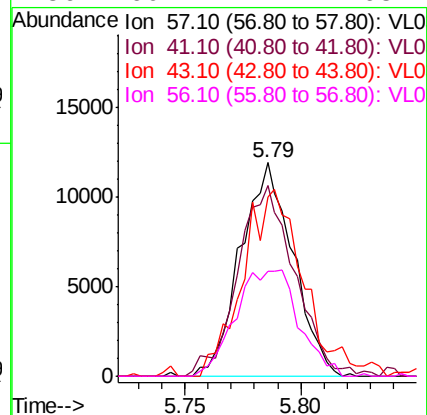
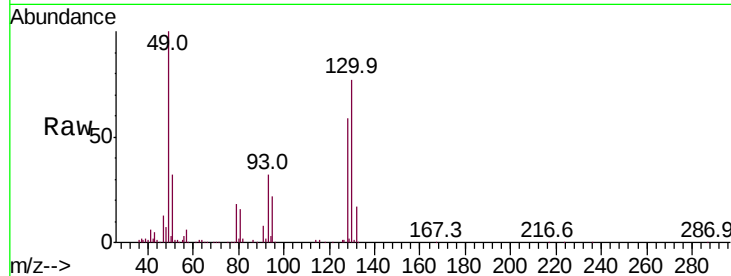




#26
Hexane
Concen: 0.152 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.00 min
Lab File: VL033005.D
Acq: 17 Dec 2018 21:12

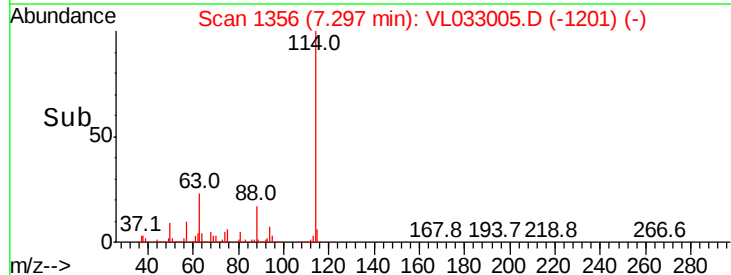
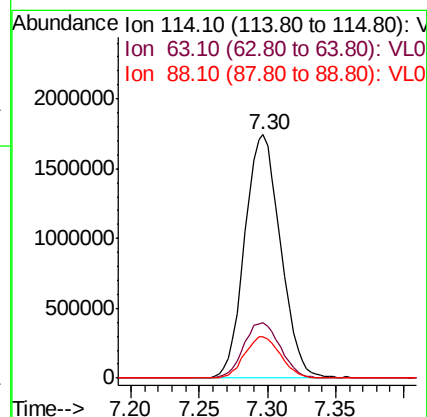
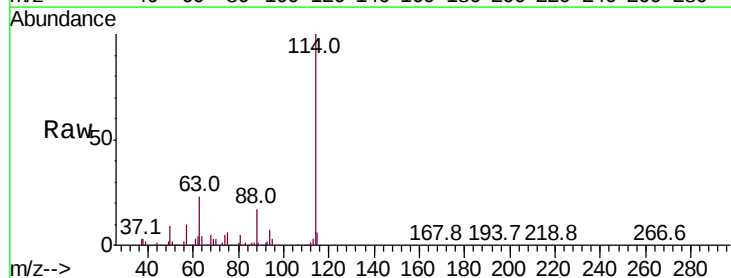
Instrument :
MSVOA_L
ClientSampleId :

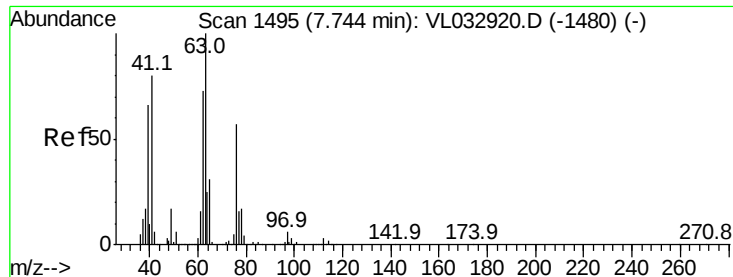
Tot Ion: 57 Resp: 18678
Ion Ratio Lower Upper
57 100
41 97.4 72.2 108.2
43 102.8 171.9 257.9#
56 60.2 42.2 63.2



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL033005.D
Acq: 17 Dec 2018 21:12

Tgt Ion: 114 Resp: 3181562
Ion Ratio Lower Upper
114 100
63 23.4 20.1 30.1
88 17.1 14.2 21.4





#39

1,2-Dichloropropane

Concen: 8.297 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL033005.D

Acq: 17 Dec 2018 21:12

Instrument :

MSVOA_L

ClientSampleId :

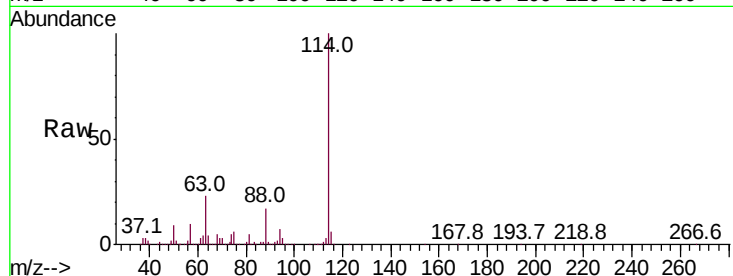
Tot Ion: 63 Resp: 736376

Ion Ratio Lower Upper

63 100

41 0.0 63.9 95.9#

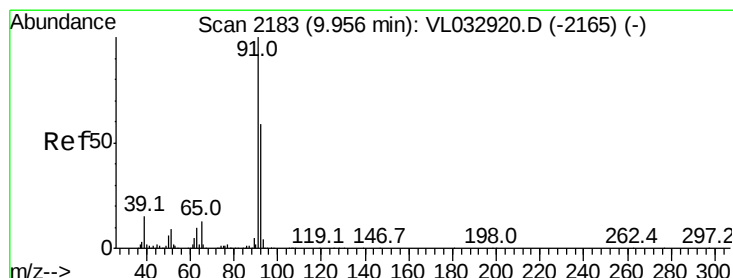
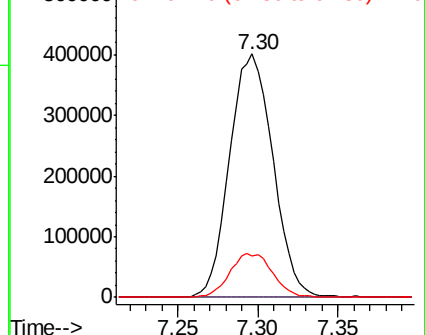
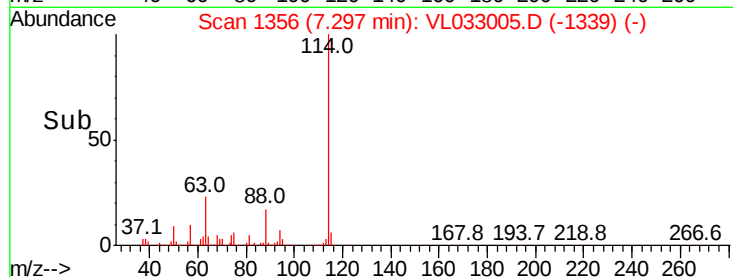
62 17.0 58.8 88.2#



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



#53

Toluene

Concen: 0.487 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL033005.D

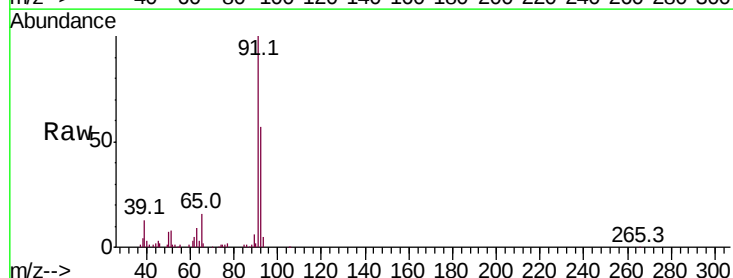
Acq: 17 Dec 2018 21:12

Tgt Ion: 91 Resp: 120841

Ion Ratio Lower Upper

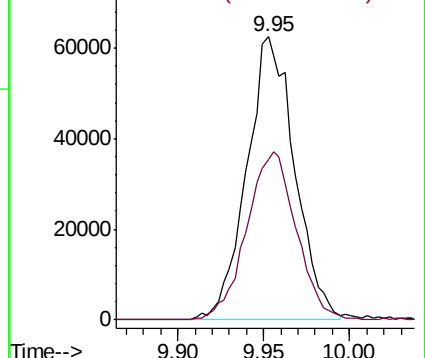
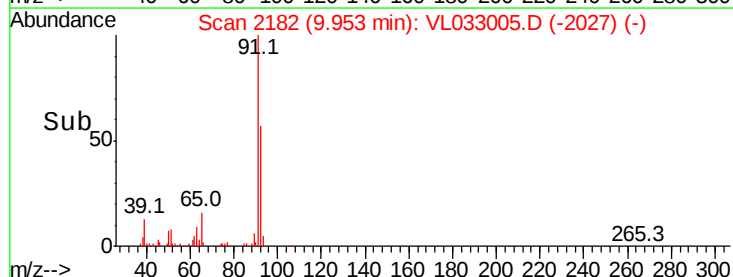
91 100

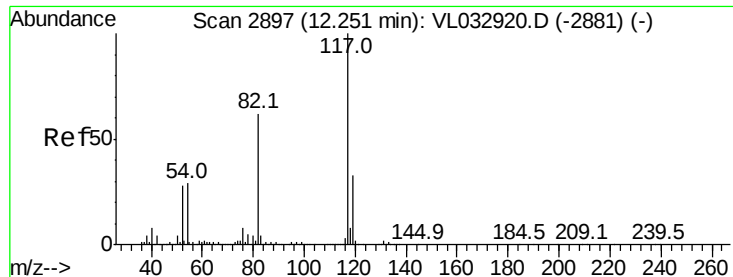
92 61.6 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

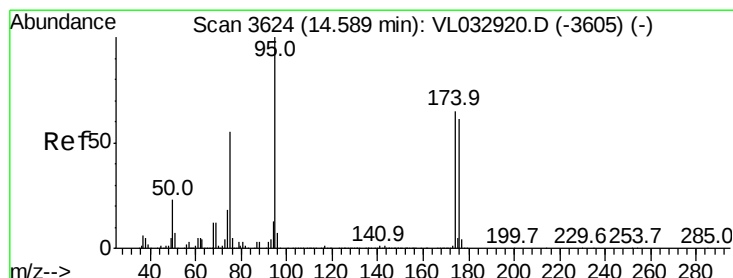
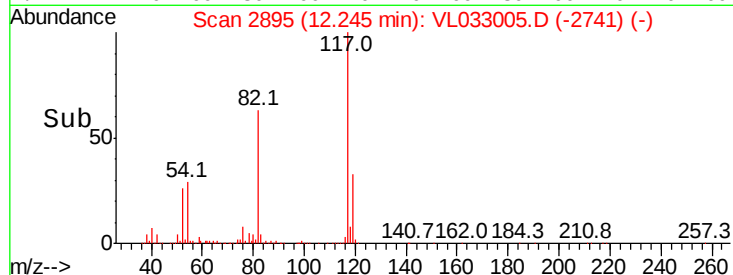
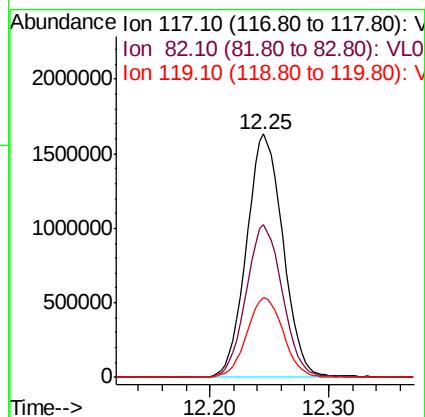
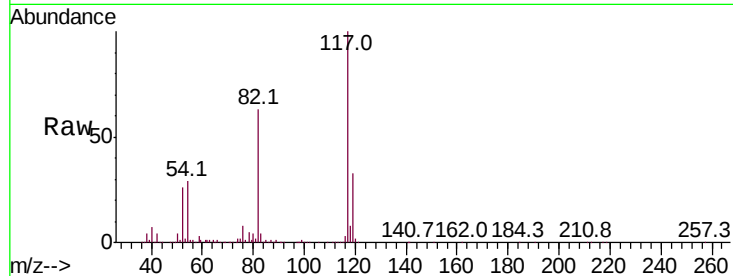




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.01 min
Lab File: VL033005.D
Acq: 17 Dec 2018 21:12

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:117 Resp: 3464299
Ion Ratio Lower Upper
117 100
82 62.8 47.8 71.8
119 33.0 43.1 64.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.785 ppbv
RT: 14.59 min Scan# 3623
Delta R.T. -0.00 min
Lab File: VL033005.D
Acq: 17 Dec 2018 21:12

Tgt Ion: 95 Resp: 2504277
Ion Ratio Lower Upper
95 100
174 67.9 51.4 77.0
175 4.9 3.8 5.6

