

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121718\
 Data File : VL033021.D
 Acq On : 18 Dec 2018 7:42
 Operator : SY/AP
 Sample : J6444-06DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 18 09:19:25 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

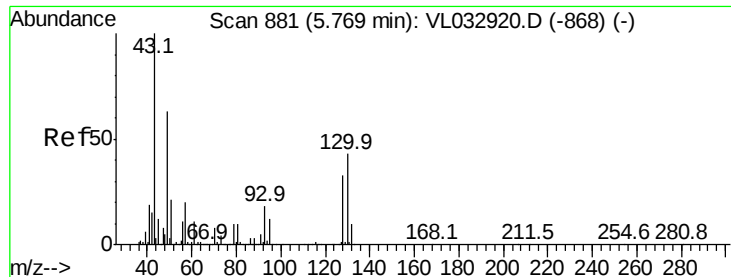
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1201627	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2841734	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2096910	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1974972	12.75	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	127.50%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	10548	0.066 ppbv	100
3) Chlorodifluoromethane	3.01	51	9843	0.108 ppbv #	90
4) Chloromethane	3.17	50	11711	0.221 ppbv #	84
9) Propene	3.24	41	20234	0.562 ppbv	95
13) Ethanol	3.66	45	30977	2.500 ppbv #	27
15) Acetone	3.92	43	105670	1.025 ppbv	99
16) 1,3-Butadiene	3.35	39	4182	0.102 ppbv #	39
19) Isopropyl Alcohol	4.06	45	9684	0.150 ppbv #	95
20) Methylene Chloride	4.42	84	99047	1.965 ppbv	90
25) Ethyl Acetate	5.79	43	43119	0.177 ppbv #	85
26) Hexane	5.79	57	58767	0.522 ppbv #	46
34) 2-Butanone	5.36	43	4968	0.040 ppbv #	66
39) 1,2-Dichloropropane	7.30	63	685029	8.642 ppbv #	21
53) Toluene	9.95	91	1796408	8.104 ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033021.D

Acq: 18 Dec 2018 7:42

Instrument :

MSVOA_L

ClientSampled :

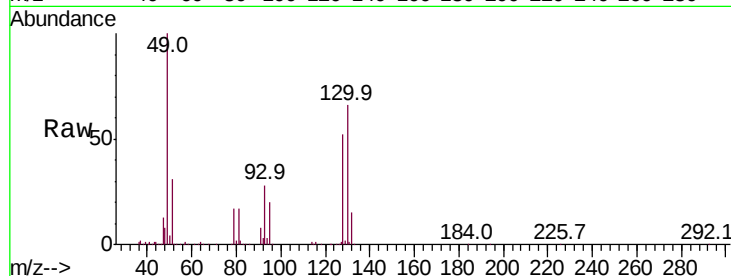
Tot Ion: 49 Resp: 1201627

Ion Ratio Lower Upper

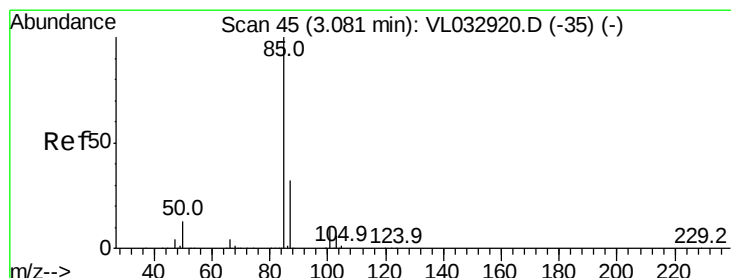
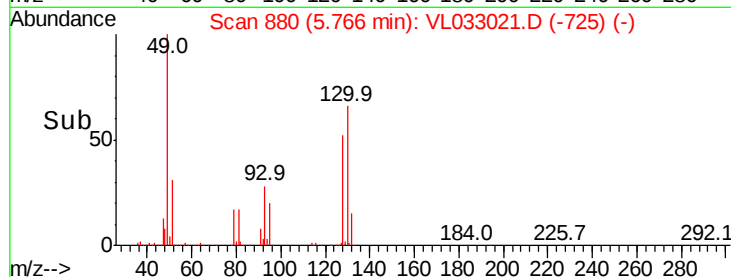
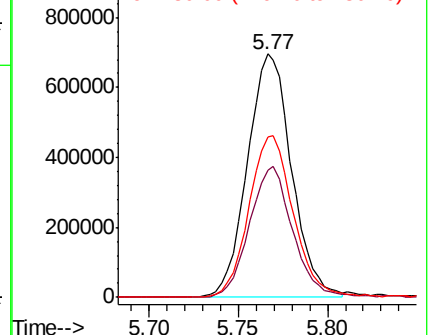
49 100

128 53.2 26.3 78.8

130 67.7 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: 0.066 ppbv

RT: 3.08 min Scan# 45

Delta R.T. 0.00 min

Lab File: VL033021.D

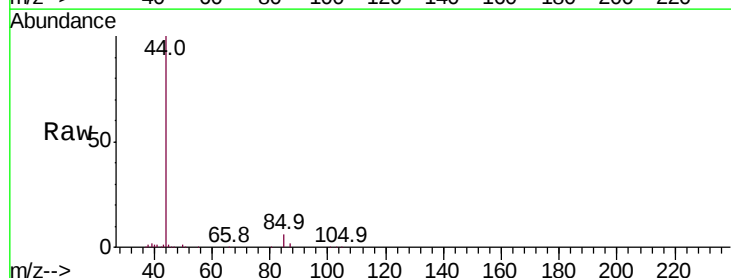
Acq: 18 Dec 2018 7:42

Tgt Ion: 85 Resp: 10548

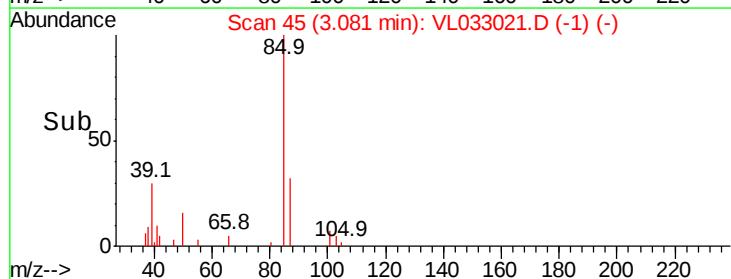
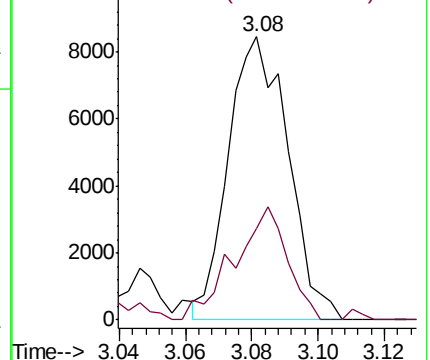
Ion Ratio Lower Upper

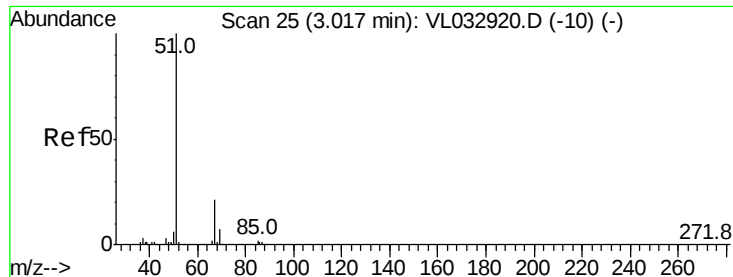
85 100

87 32.3 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: 0.108 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033021.D

Acq: 18 Dec 2018 7:42

Instrument :

MSVOA_L

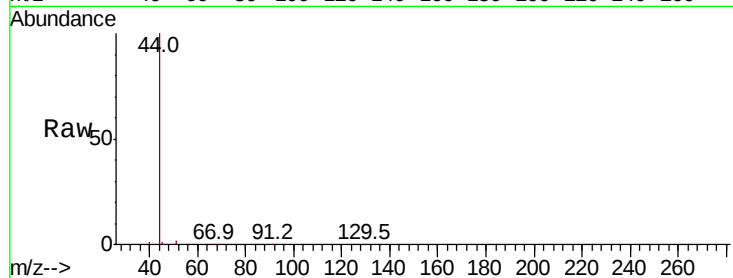
ClientSampleId :

Tot Ion: 51 Resp: 9843

Ion Ratio Lower Upper

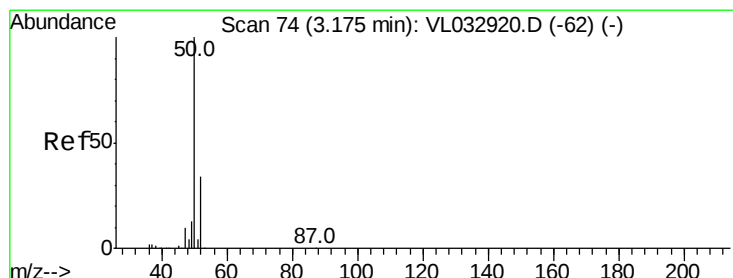
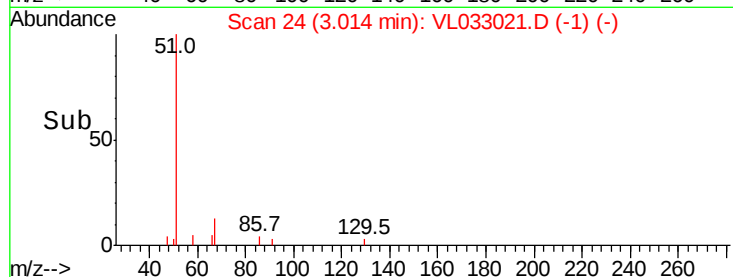
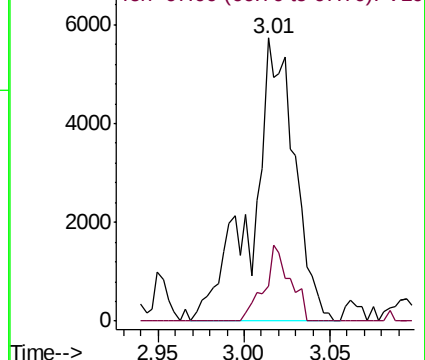
51 100

67 16.2 16.8 25.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.221 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL033021.D

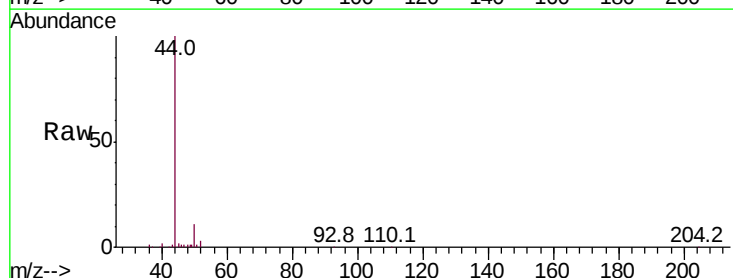
Acq: 18 Dec 2018 7:42

Tgt Ion: 50 Resp: 11711

Ion Ratio Lower Upper

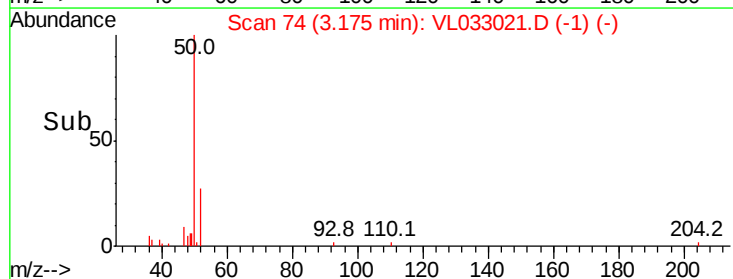
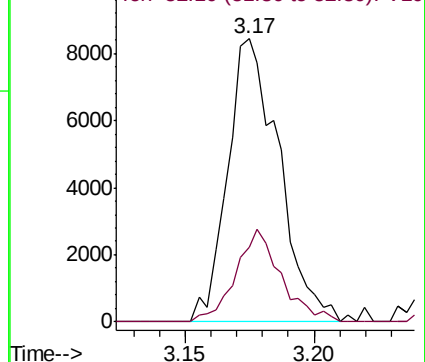
50 100

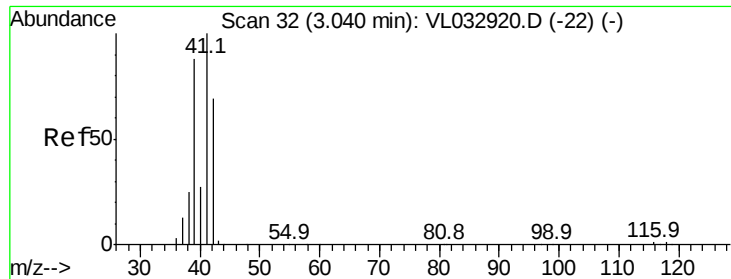
52 25.0 27.3 40.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.562 ppbv

RT: 3.24 min Scan# 95

Delta R.T. 0.20 min

Lab File: VL033021.D

Acq: 18 Dec 2018 7:42

Instrument :

MSVOA_L

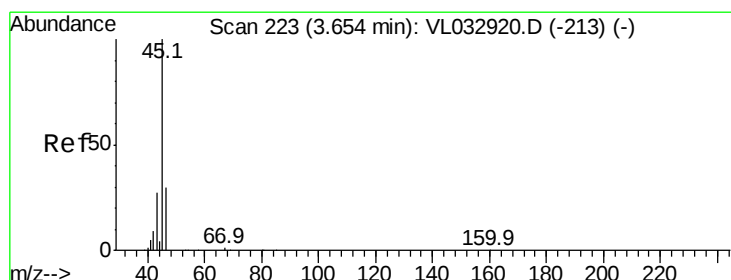
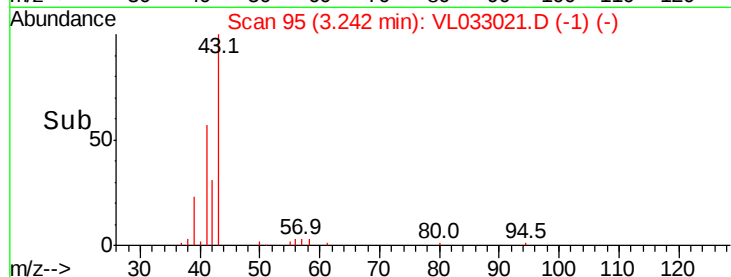
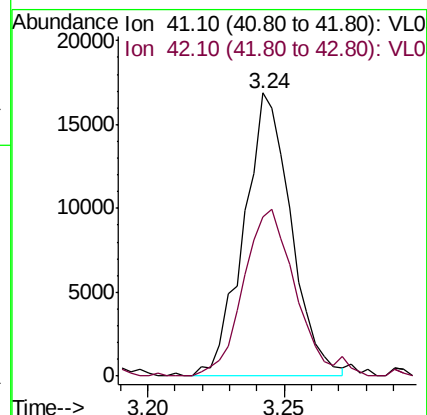
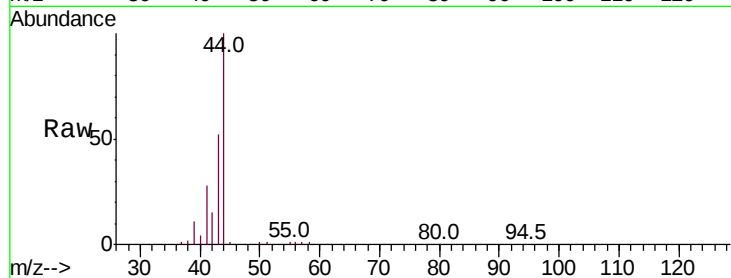
ClientSampleId :

Tot Ion: 41 Resp: 20234

Ion Ratio Lower Upper

41 100

42 66.0 56.2 84.2



#13

Ethanol

Concen: 2.500 ppbv

RT: 3.66 min Scan# 226

Delta R.T. 0.01 min

Lab File: VL033021.D

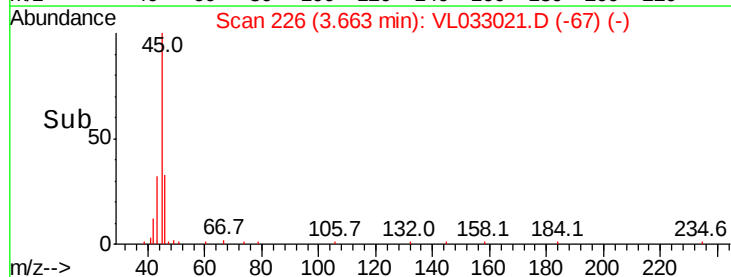
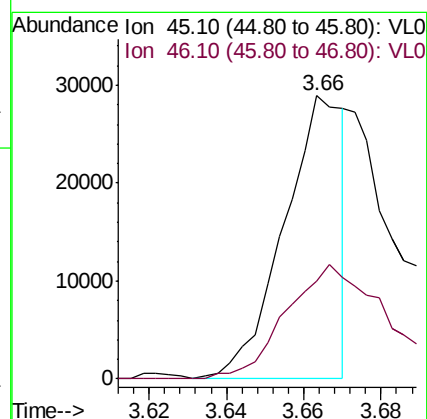
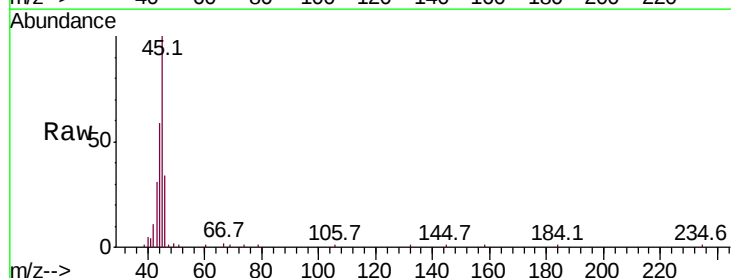
Acq: 18 Dec 2018 7:42

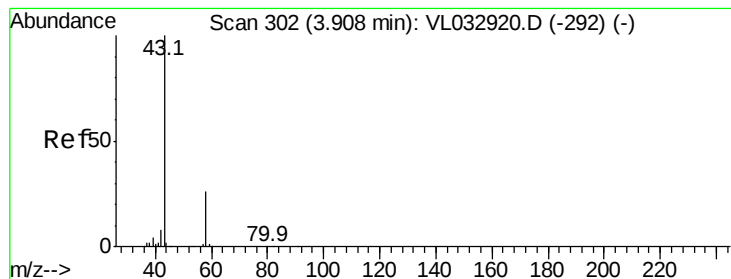
Tgt Ion: 45 Resp: 30977

Ion Ratio Lower Upper

45 100

46 77.0 13.8 55.4#





#15

Acetone

Concen: 1.025 ppbv

RT: 3.92 min Scan# 306

Delta R.T. 0.01 min

Lab File: VL033021.D

Acq: 18 Dec 2018 7:42

Instrument :

MSVOA_L

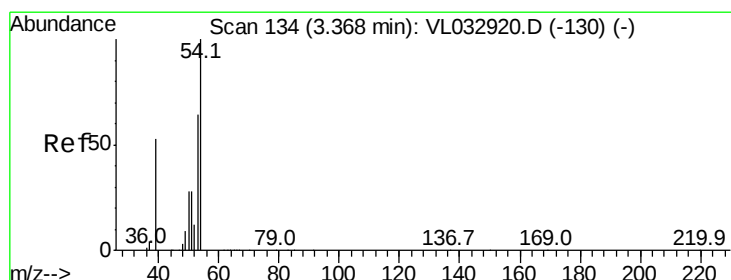
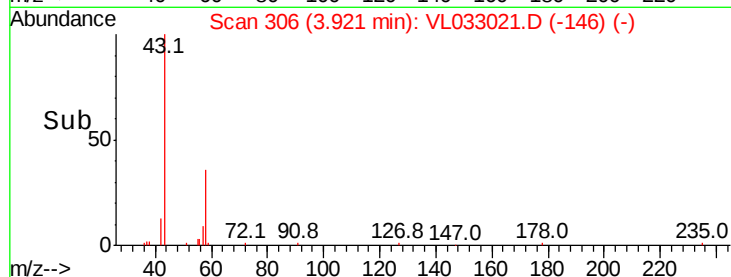
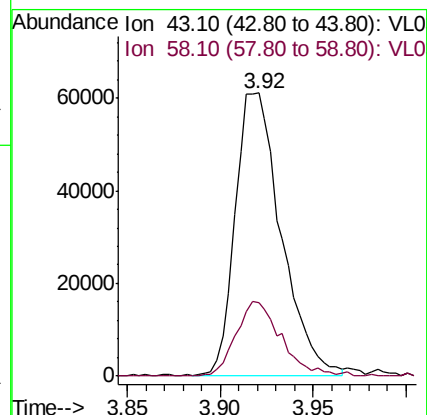
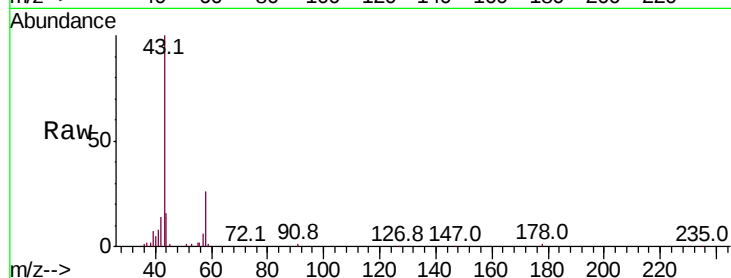
ClientSampleId :

Tot Ion: 43 Resp: 105670

Ion Ratio Lower Upper

43 100

58 26.4 20.6 30.8



#16

1,3-Butadiene

Concen: 0.102 ppbv

RT: 3.35 min Scan# 129

Delta R.T. -0.02 min

Lab File: VL033021.D

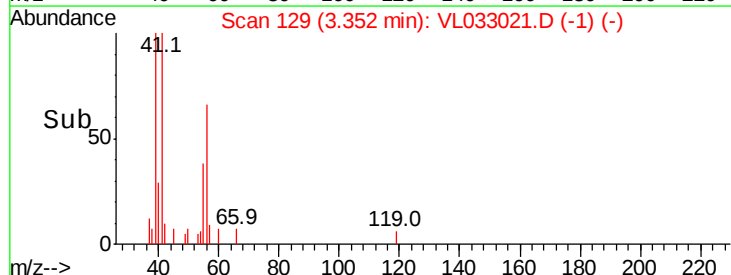
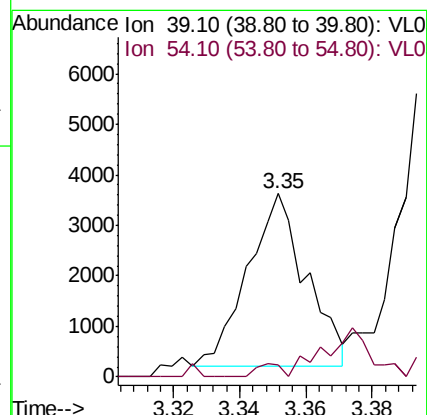
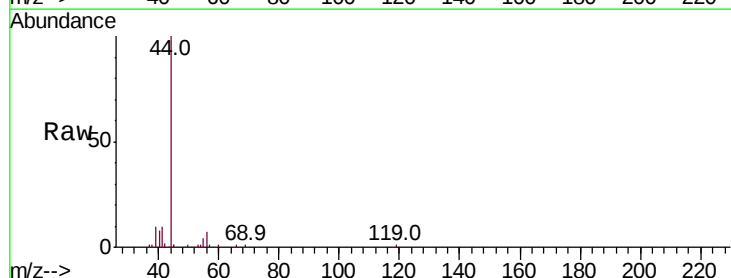
Acq: 18 Dec 2018 7:42

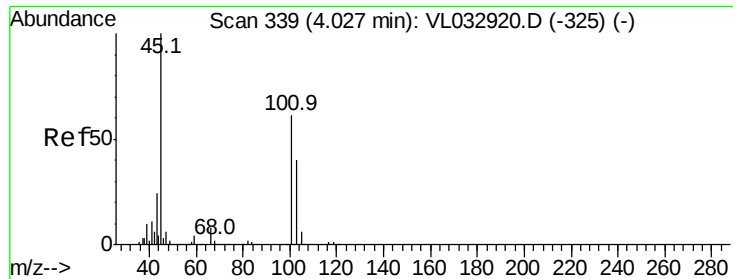
Tgt Ion: 39 Resp: 4182

Ion Ratio Lower Upper

39 100

54 32.9 72.7 109.1#





#19

Isopropyl Alcohol

Concen: 0.150 ppbv

RT: 4.06 min Scan# 349

Delta R.T. 0.03 min

Lab File: VL033021.D

Acq: 18 Dec 2018 7:42

Instrument :

MSVOA_L

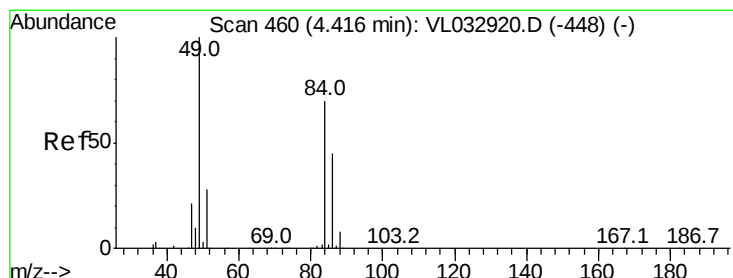
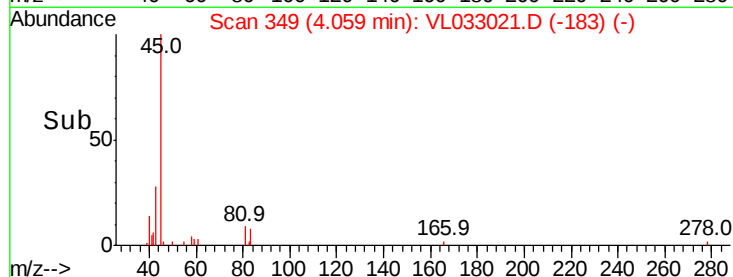
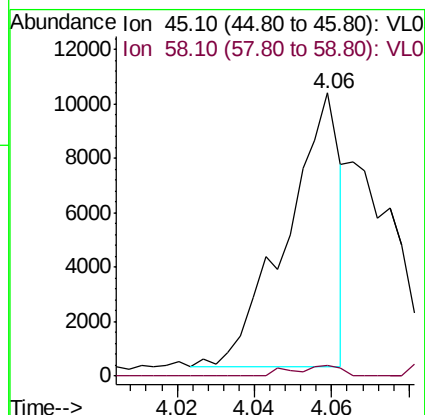
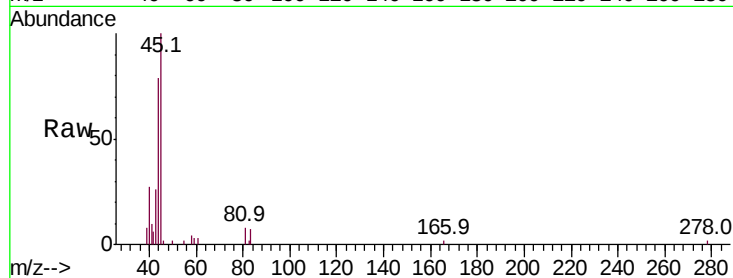
ClientSampleId :

Tot Ion: 45 Resp: 9684

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#



#20

Methylene Chloride

Concen: 1.965 ppbv

RT: 4.42 min Scan# 460

Delta R.T. 0.00 min

Lab File: VL033021.D

Acq: 18 Dec 2018 7:42

Tgt Ion: 84 Resp: 99047

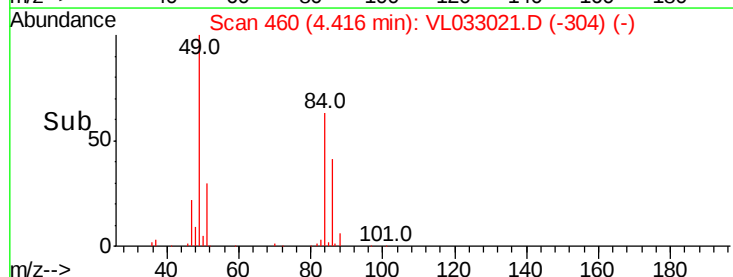
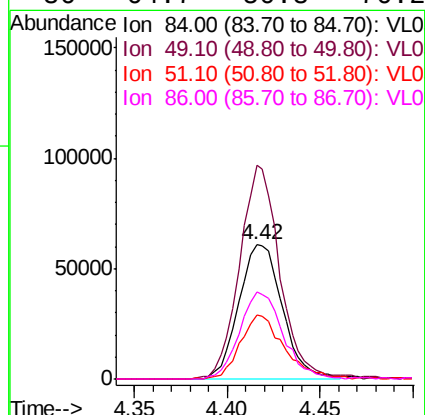
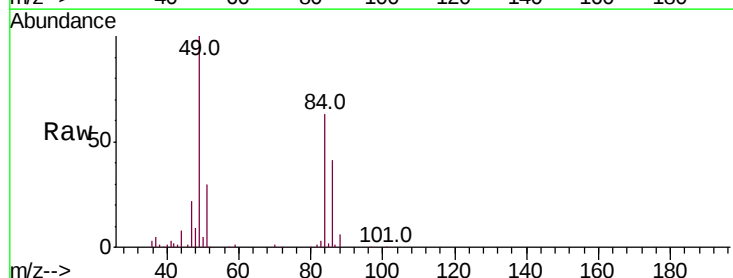
Ion Ratio Lower Upper

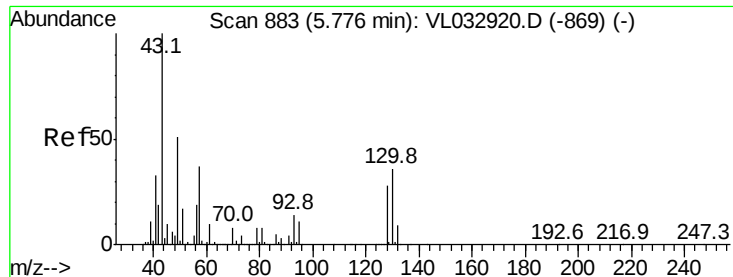
84 100

49 158.9 113.8 170.8

51 47.5 31.8 47.8

86 64.7 50.8 76.2





#25

Ethyl Acetate

Concen: 0.177 ppbv

RT: 5.79 min Scan# 886

Delta R.T. 0.01 min

Lab File: VL033021.D

Acq: 18 Dec 2018 7:42

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 43119

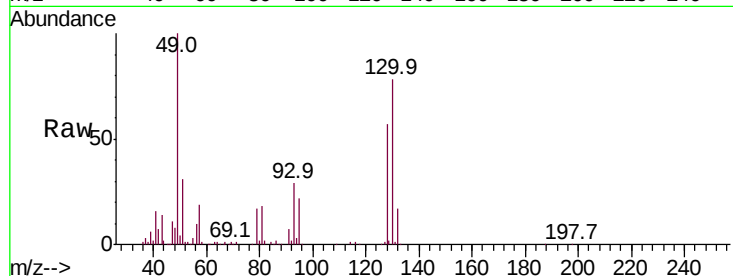
Ion Ratio Lower Upper

43 100

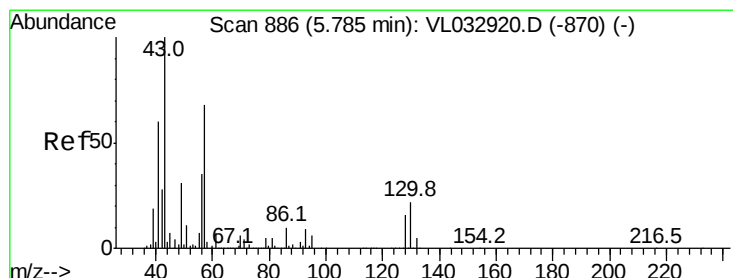
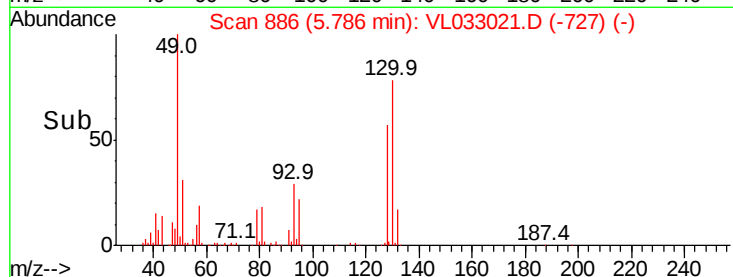
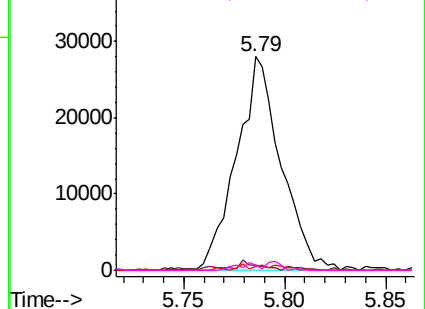
45 4.1 7.8 11.6#

61 2.6 7.4 11.2#

70 3.1 5.7 8.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.522 ppbv

RT: 5.79 min Scan# 886

Delta R.T. 0.00 min

Lab File: VL033021.D

Acq: 18 Dec 2018 7:42

Tgt Ion: 57 Resp: 58767

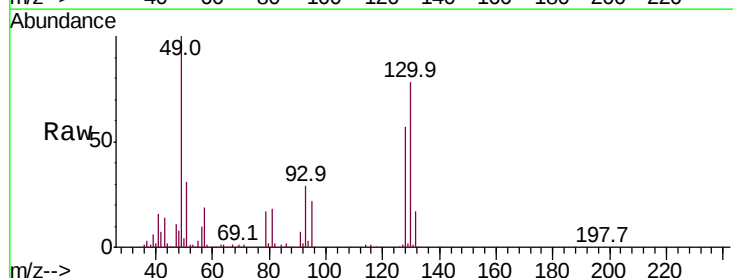
Ion Ratio Lower Upper

57 100

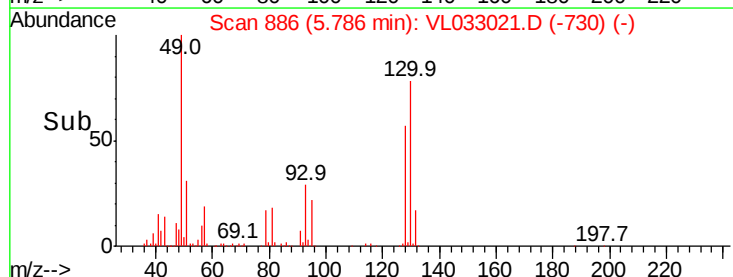
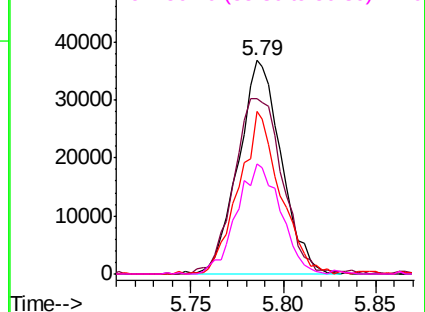
41 93.9 72.2 108.2

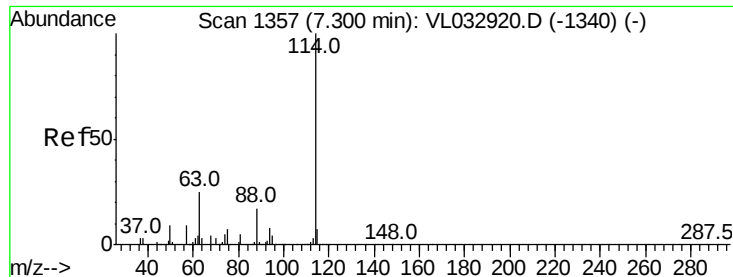
43 74.4 171.9 257.9#

56 53.5 42.2 63.2



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

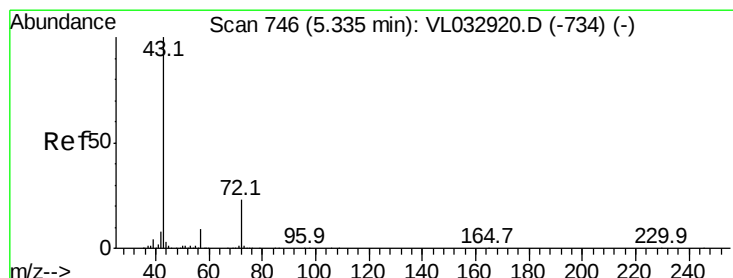
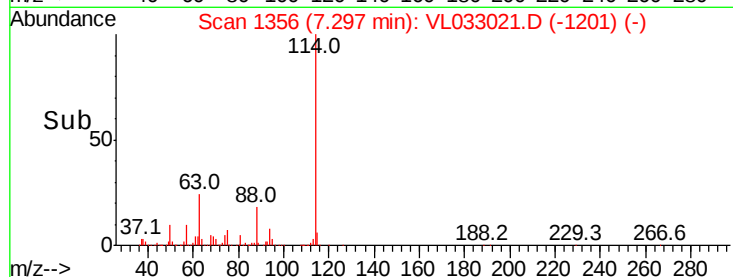
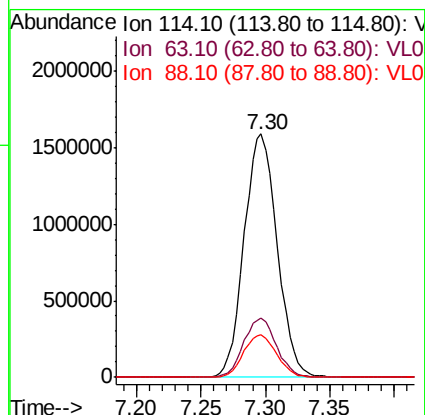
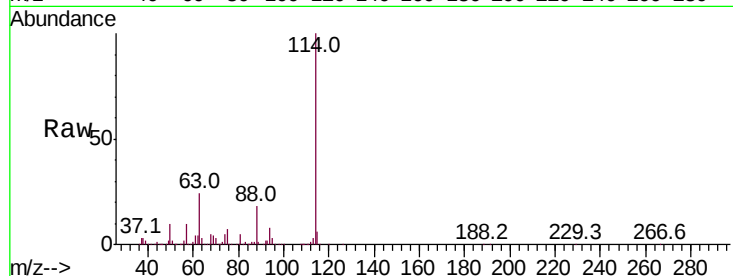




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.00 min
 Lab File: VL033021.D
 Acq: 18 Dec 2018 7:42

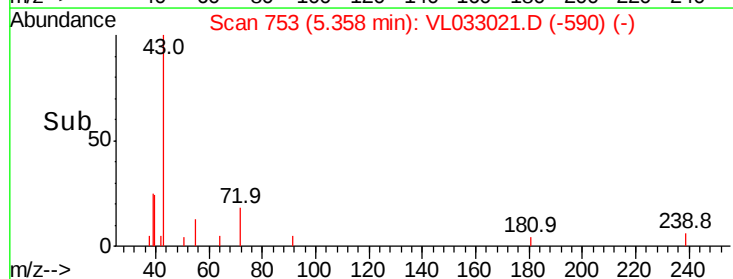
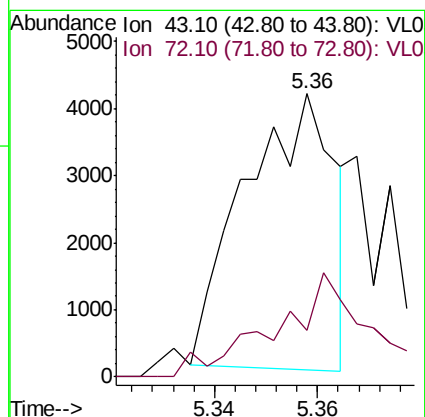
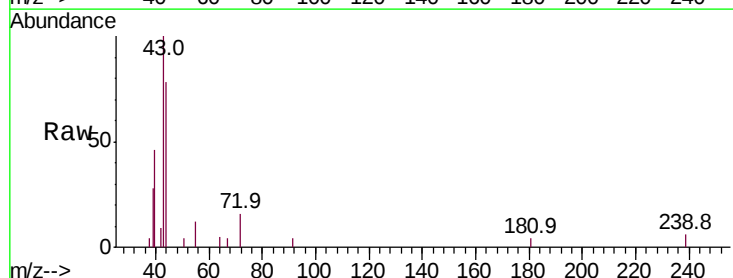
Instrument :
 MSVOA_L
 ClientSampleId :

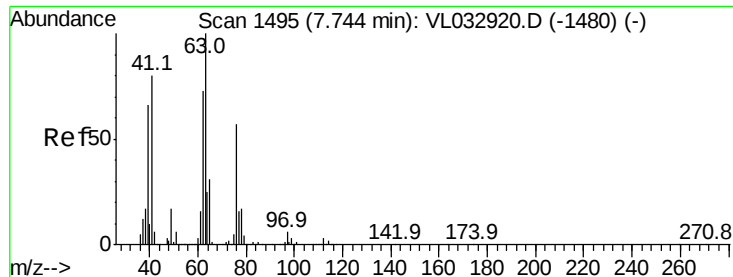
Tot Ion:114 Resp: 2841734
 Ion Ratio Lower Upper
 114 100
 63 24.2 20.1 30.1
 88 17.5 14.2 21.4



#34
 2-Butanone
 Concen: 0.040 ppbv
 RT: 5.36 min Scan# 753
 Delta R.T. 0.02 min
 Lab File: VL033021.D
 Acq: 18 Dec 2018 7:42

Tgt Ion: 43 Resp: 4968
 Ion Ratio Lower Upper
 43 100
 72 40.1 18.8 28.2#

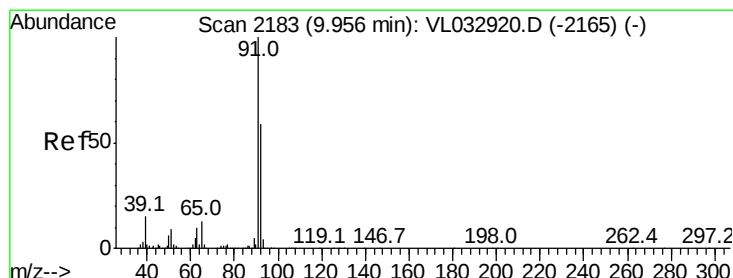
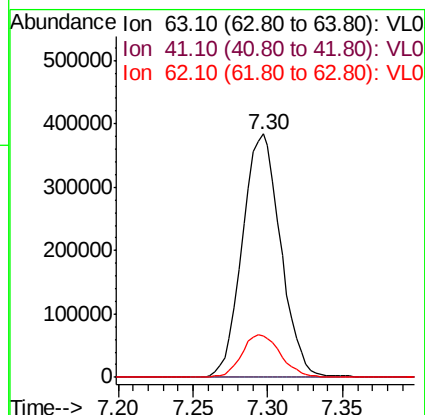
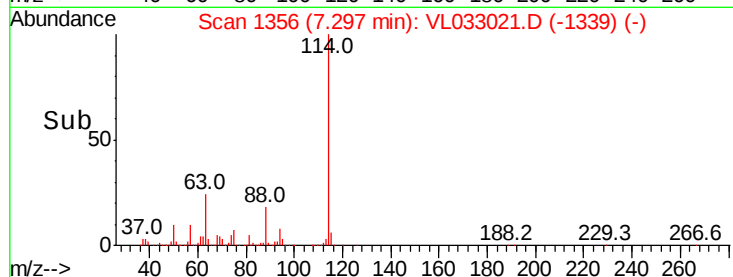
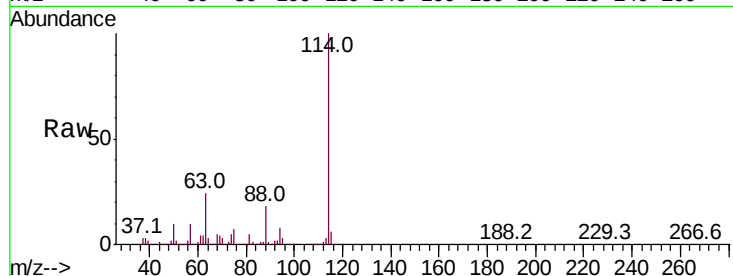




#39
 1,2-Dichloropropane
 Concen: 8.642 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.45 min
 Lab File: VL033021.D
 Acq: 18 Dec 2018 7:42

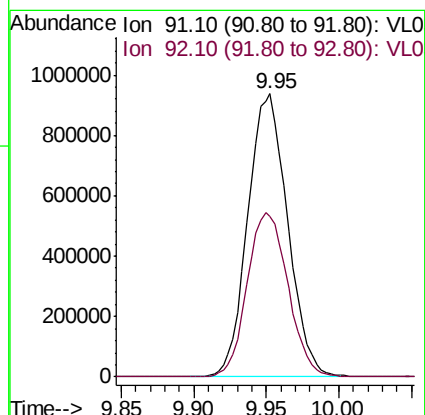
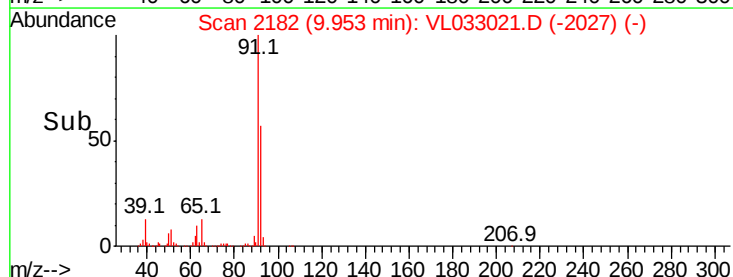
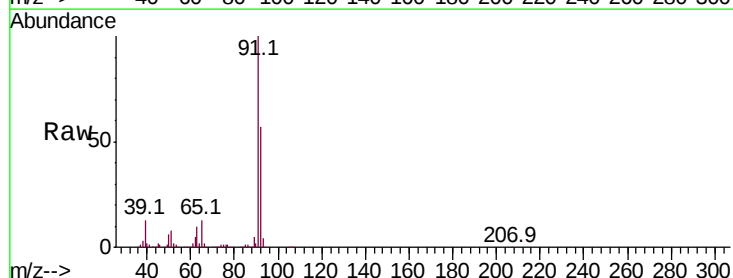
Instrument :
 MSVOA_L
 ClientSampleId :

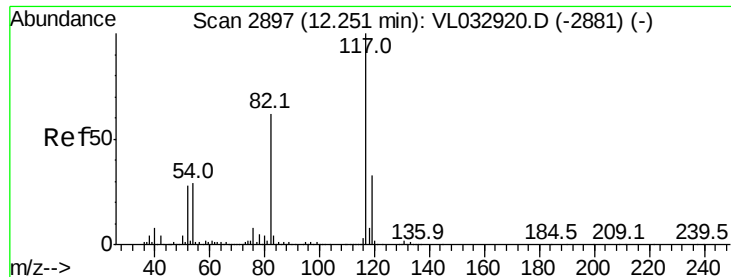
Tot Ion: 63 Resp: 685029
 Ion Ratio Lower Upper
 63 100
 41 0.0 63.9 95.9#
 62 17.2 58.8 88.2#



#53
 Toluene
 Concen: 8.104 ppbv
 RT: 9.95 min Scan# 2182
 Delta R.T. -0.00 min
 Lab File: VL033021.D
 Acq: 18 Dec 2018 7:42

Tgt Ion: 91 Resp: 1796408
 Ion Ratio Lower Upper
 91 100
 92 59.6 47.4 71.0

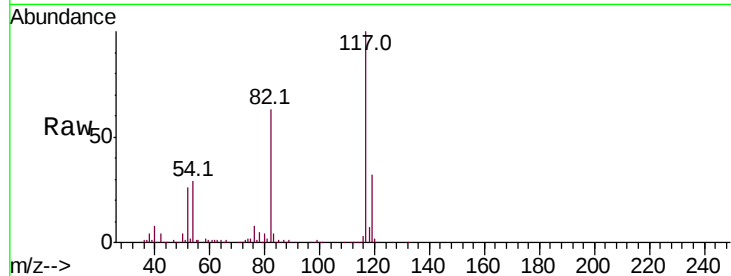




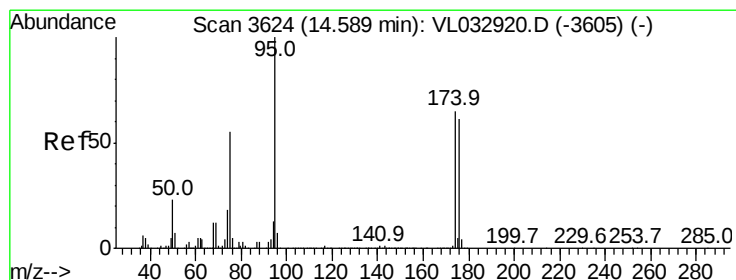
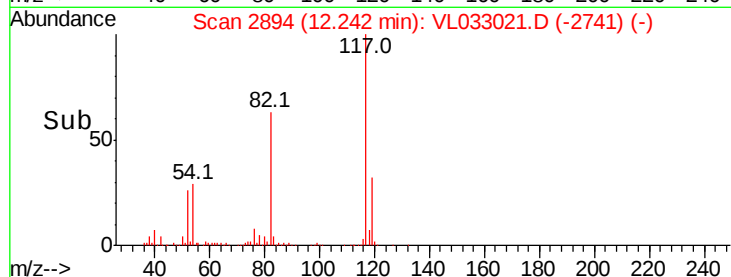
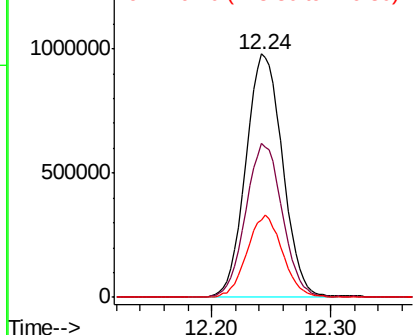
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.01 min
Lab File: VL033021.D
Acq: 18 Dec 2018 7:42

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:117 Resp: 2096910
Ion Ratio Lower Upper
117 100
82 63.4 47.8 71.8
119 32.9 43.1 64.7#

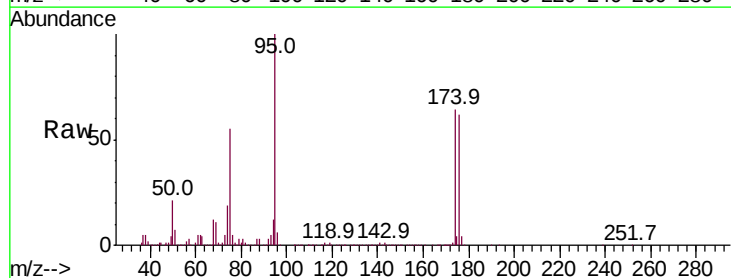


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 12.749 ppbv
RT: 14.58 min Scan# 3622
Delta R.T. -0.01 min
Lab File: VL033021.D
Acq: 18 Dec 2018 7:42

Tgt Ion: 95 Resp: 1974972
Ion Ratio Lower Upper
95 100
174 65.3 51.4 77.0
175 4.9 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V

