

Data File : VL033384.D
Acq On : 19 Mar 2019 10:21
Operator : SY/AP
Sample : K1805-04 2X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ST-SS-1

Quant Time: Mar 19 12:08:30 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019
QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	744894	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1655375	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.24	117	1766430	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.57 95 1343956 10.27 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.70%

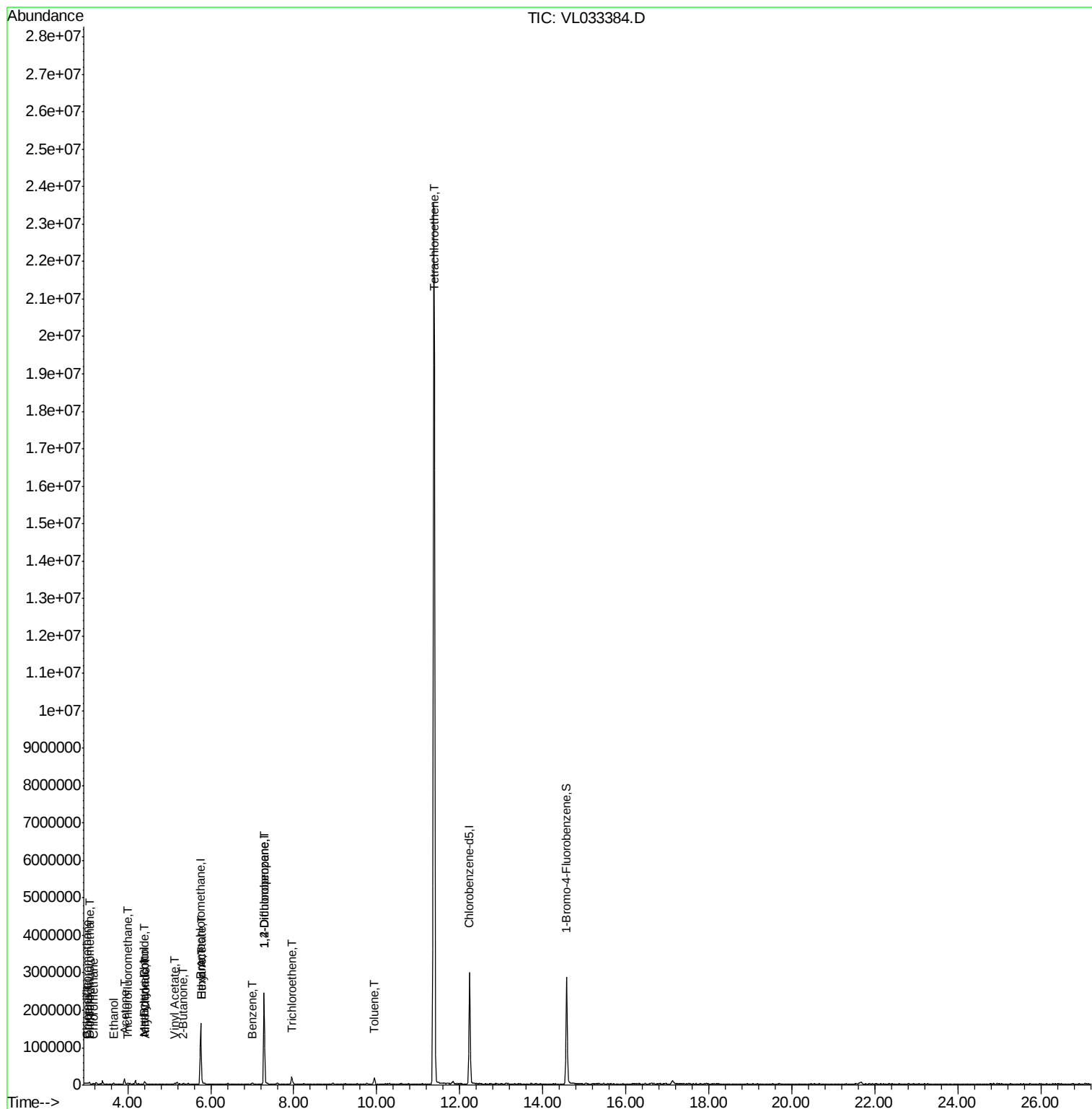
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	27396	0.209	ppbv	95
3) Chlorodifluoromethane	3.01	51	14559	0.170	ppbv	95
4) Chloromethane	3.17	50	1672	0.036	ppbv #	79
9) Propene	3.04	41	1960	0.051	ppbv #	52
11) Trichlorofluoromethane	4.00	101	14656	0.112	ppbv	94
13) Ethanol	3.65	45	5600	0.308	ppbv #	38
15) Acetone	3.91	43	103621	0.895	ppbv	93
17) tert-Butyl alcohol	4.39	59	2335	0.143	ppbv #	74
20) Methylene Chloride	4.40	84	13143	0.348	ppbv	94
21) Allyl Chloride	4.43	41	2396	0.043	ppbv #	23
23) Vinyl Acetate	5.14	43	6576	0.049	ppbv #	32
25) Ethyl Acetate	5.78	43	16833	0.100	ppbv #	80
26) Hexane	5.78	57	36409	0.484	ppbv #	38
34) 2-Butanone	5.35	43	15039	0.138	ppbv	99
36) Benzene	6.99	78	8213	0.055	ppbv	94
38) Trichloroethene	7.95	130	54544	0.973	ppbv	90
39) 1,2-Dichloropropane	7.28	63	443727	7.998	ppbv #	24
52) Tetrachloroethene	11.38	164	7034883	113.983	ppbv	94
53) Toluene	9.94	91	114356	0.679	ppbv	99

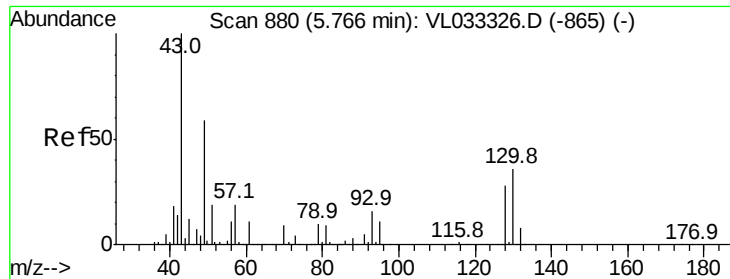
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033384.D

Acq: 19 Mar 2019 10:21

Instrument :

MSVOA_L

ClientSampleId :

ST-SS-1

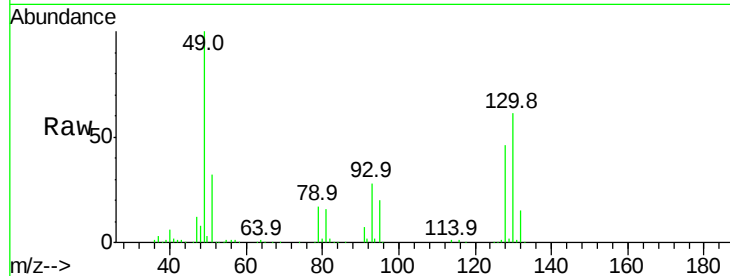
Tgt Ion: 49 Resp: 744894

Ion Ratio Lower Upper

49 100

128 46.9 23.5 70.6

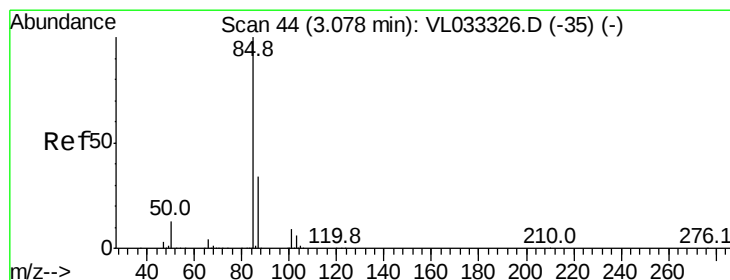
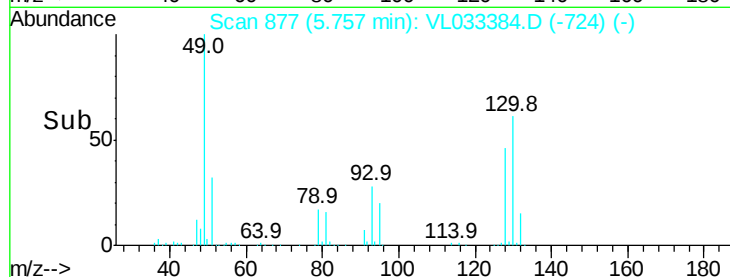
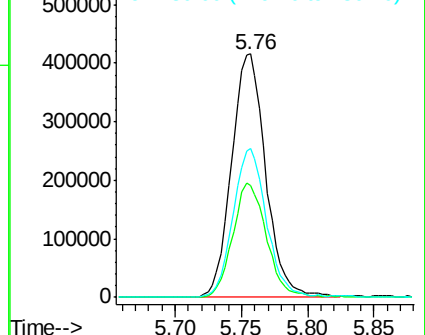
130 60.7 30.1 90.3



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: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033384.D

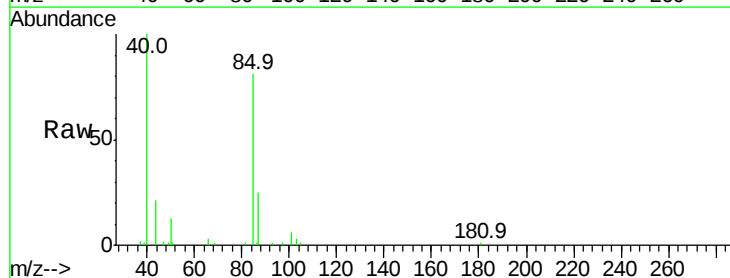
Acq: 19 Mar 2019 10:21

Tgt Ion: 85 Resp: 27396

Ion Ratio Lower Upper

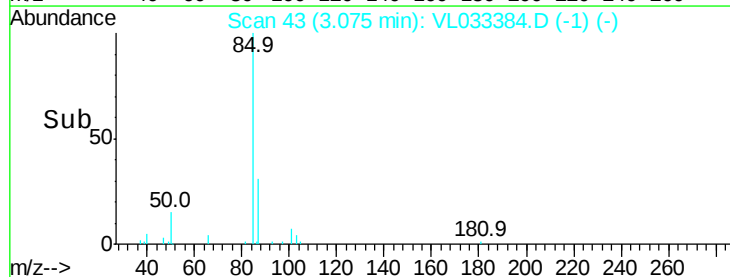
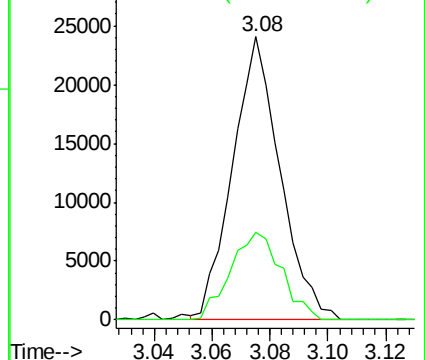
85 100

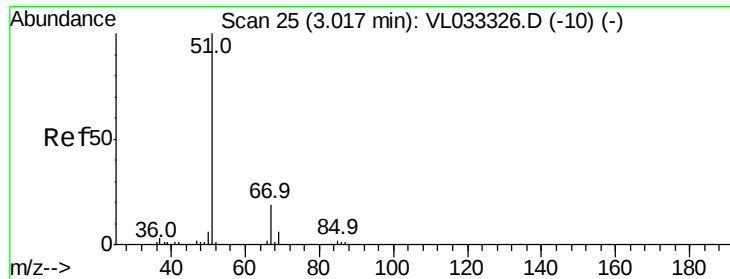
87 30.7 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.170 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.01 min

Lab File: VL033384.D

Acq: 19 Mar 2019 10:21

Instrument :

MSVOA_L

ClientSampled :

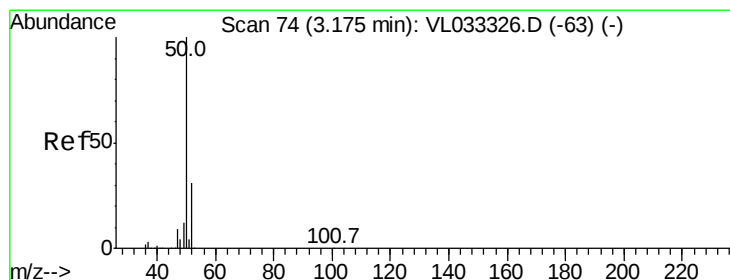
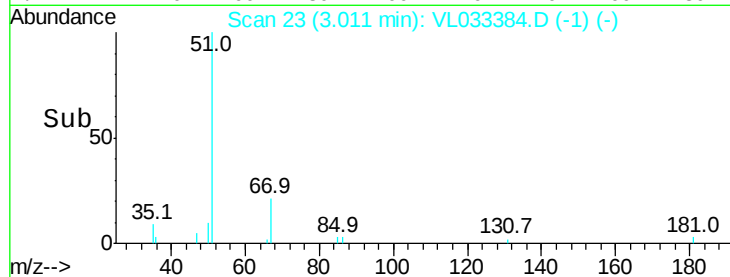
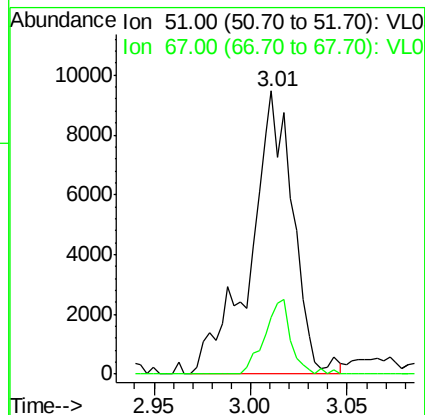
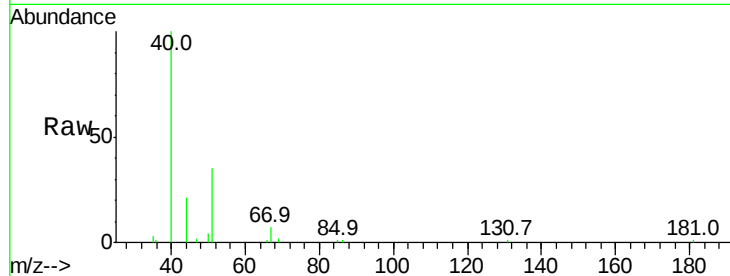
ST-SS-1

Tgt Ion: 51 Resp: 14559

Ion Ratio Lower Upper

51 100

67 16.4 14.9 22.3



#4

Chloromethane

Concen: 0.036 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033384.D

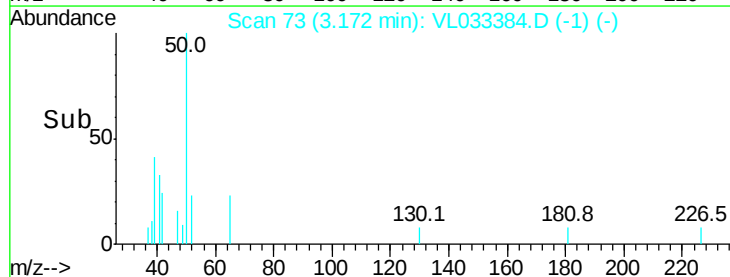
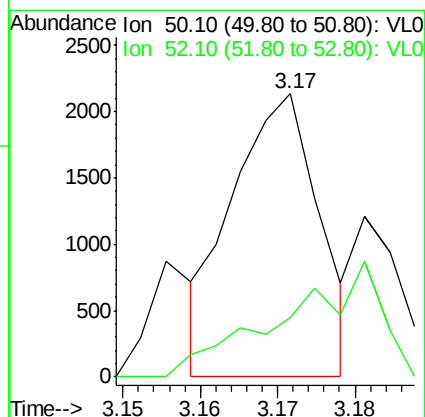
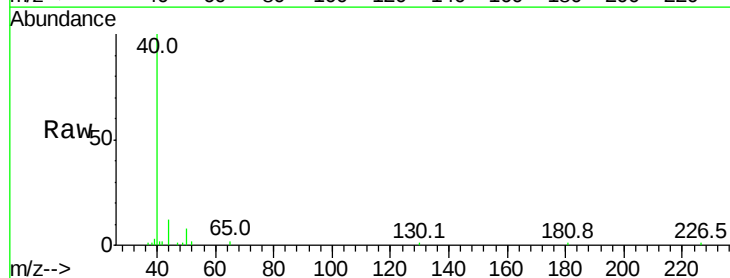
Acq: 19 Mar 2019 10:21

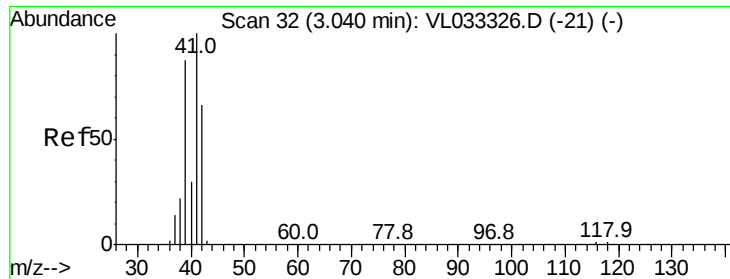
Tgt Ion: 50 Resp: 1672

Ion Ratio Lower Upper

50 100

52 20.0 25.0 37.6#





#9

Propene

Concen: 0.051 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL033384.D

Acq: 19 Mar 2019 10:21

Instrument :

MSVOA_L

ClientSampleId :

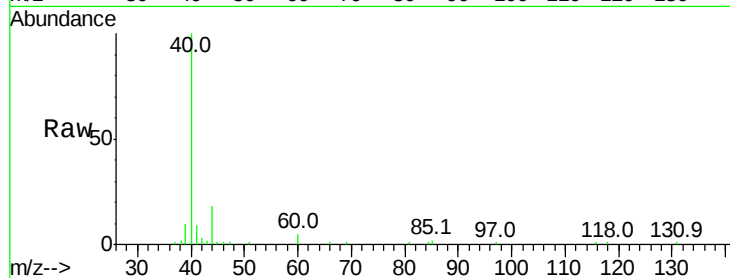
ST-SS-1

Tgt Ion: 41 Resp: 1960

Ion Ratio Lower Upper

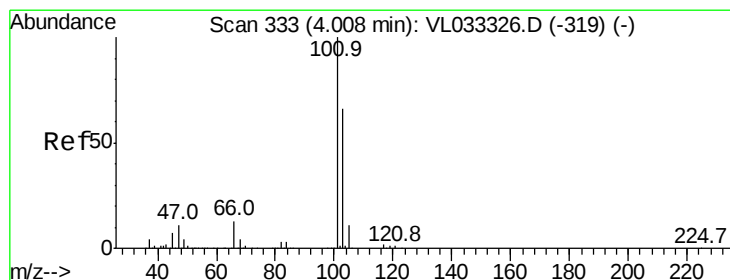
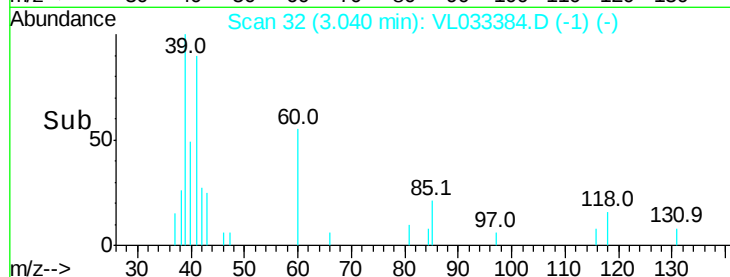
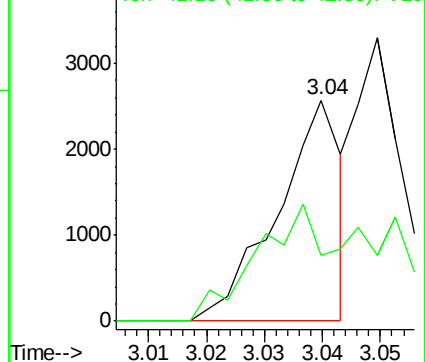
41 100

42 108.5 55.2 82.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.112 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.01 min

Lab File: VL033384.D

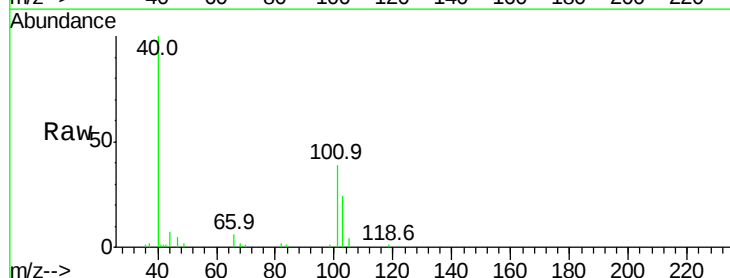
Acq: 19 Mar 2019 10:21

Tgt Ion: 101 Resp: 14656

Ion Ratio Lower Upper

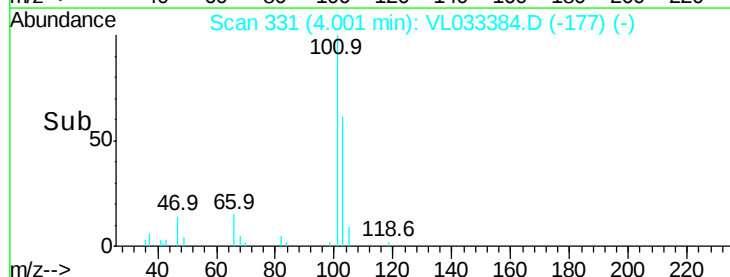
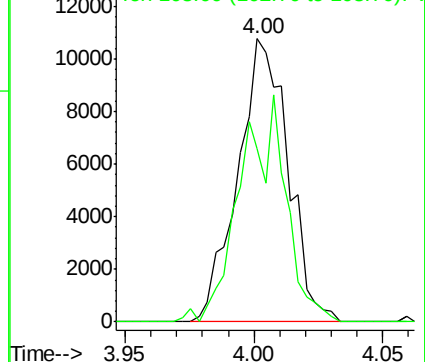
101 100

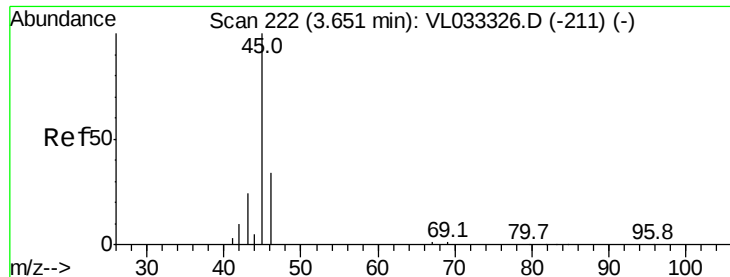
103 61.3 52.9 79.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 0.308 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033384.D

Acq: 19 Mar 2019 10:21

Instrument :

MSVOA_L

ClientSampleId :

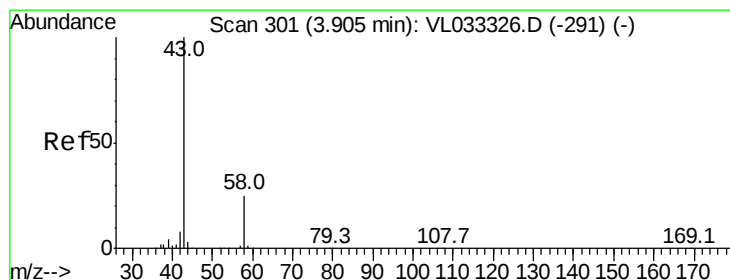
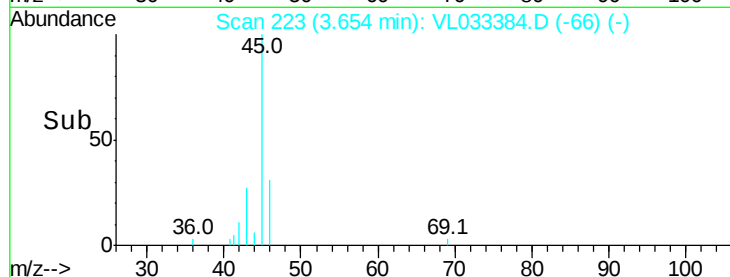
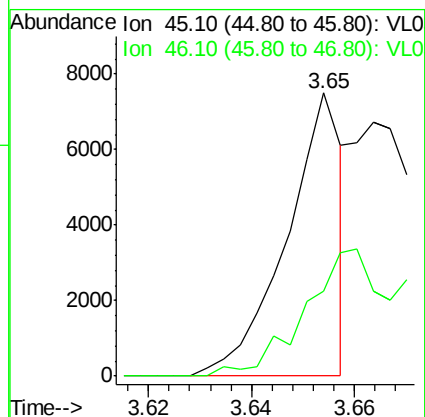
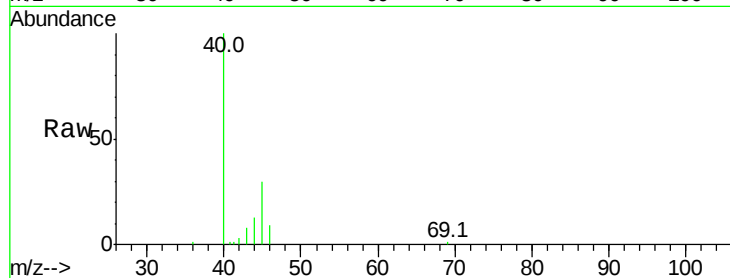
ST-SS-1

Tgt Ion: 45 Resp: 5600

Ion Ratio Lower Upper

45 100

46 0.0 14.9 59.7#



#15

Acetone

Concen: 0.895 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033384.D

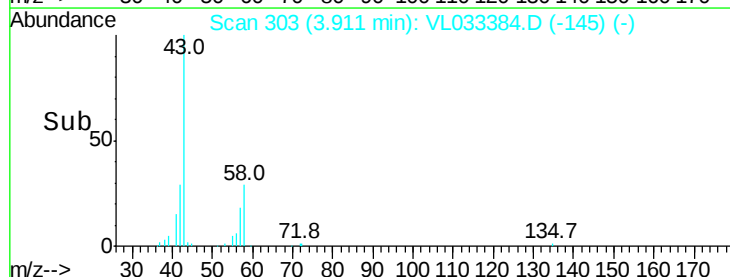
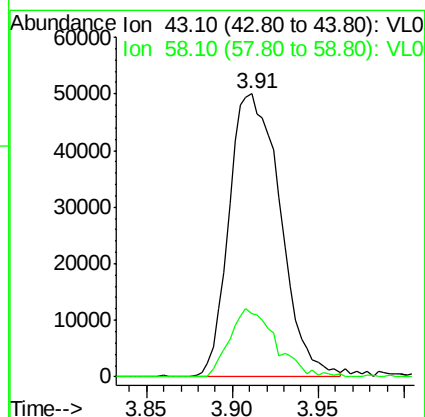
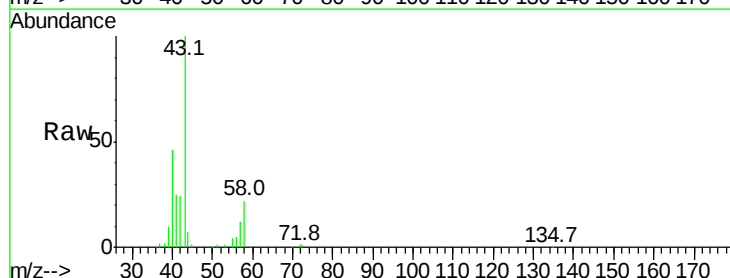
Acq: 19 Mar 2019 10:21

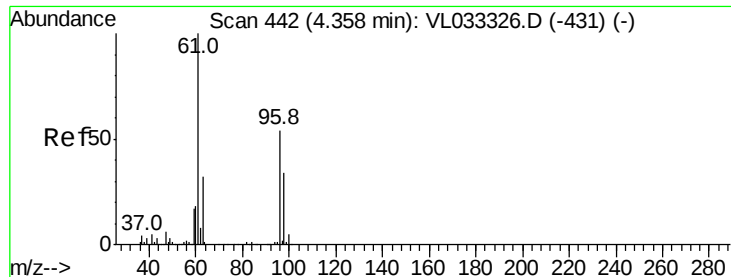
Tgt Ion: 43 Resp: 103621

Ion Ratio Lower Upper

43 100

58 22.0 20.4 30.6





#17

tert-Butyl alcohol

Concen: 0.143 ppbv

RT: 4.39 min Scan# 453

Delta R.T. 0.04 min

Lab File: VL033384.D

Acq: 19 Mar 2019 10:21

Instrument :

MSVOA_L

ClientSampleId :

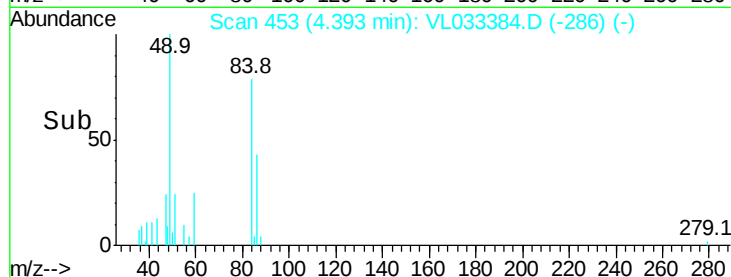
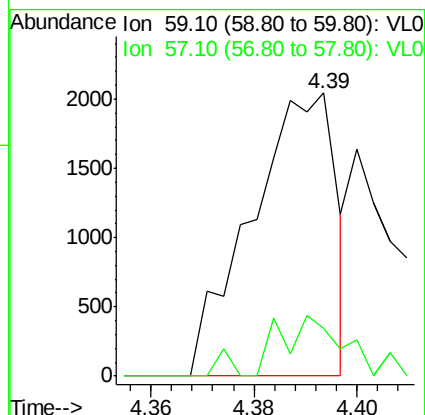
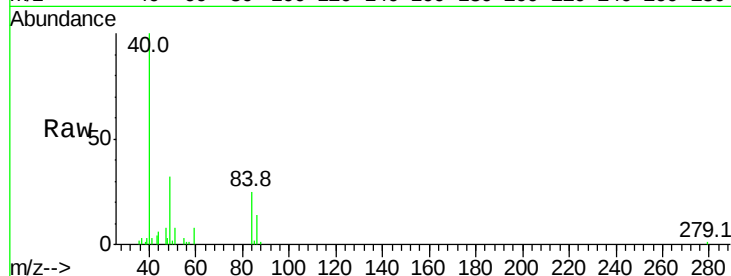
ST-SS-1

Tgt Ion: 59 Resp: 2335

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



#20

Methylene Chloride

Concen: 0.348 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.01 min

Lab File: VL033384.D

Acq: 19 Mar 2019 10:21

Tgt Ion: 84 Resp: 13143

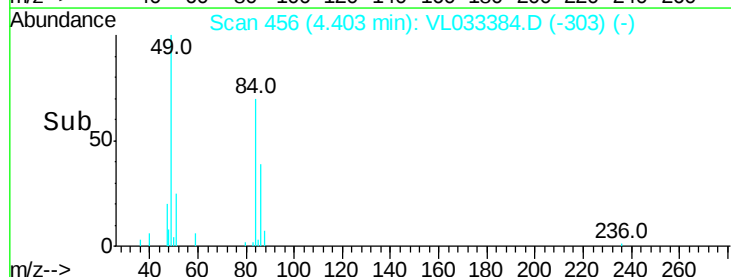
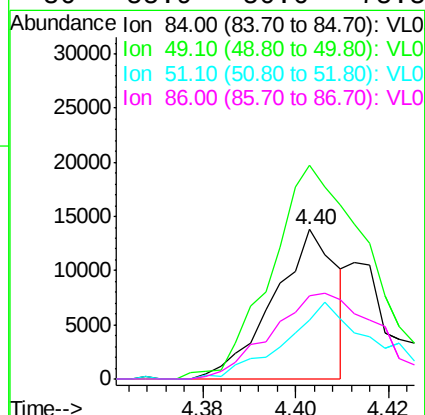
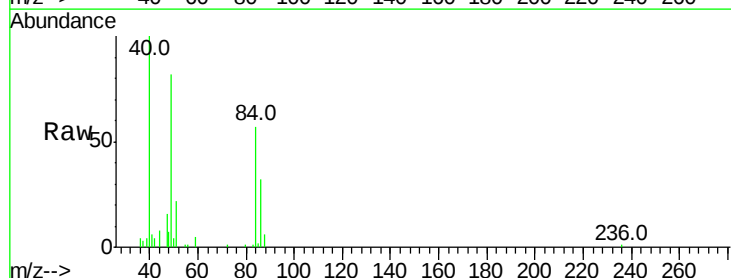
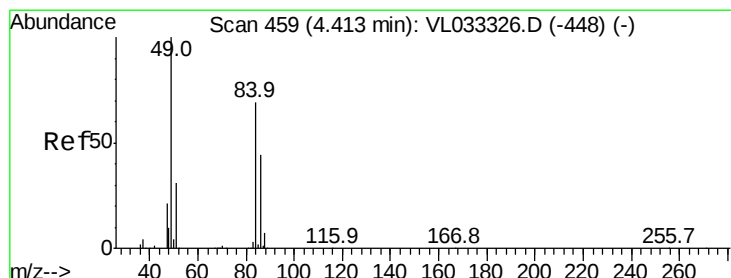
Ion Ratio Lower Upper

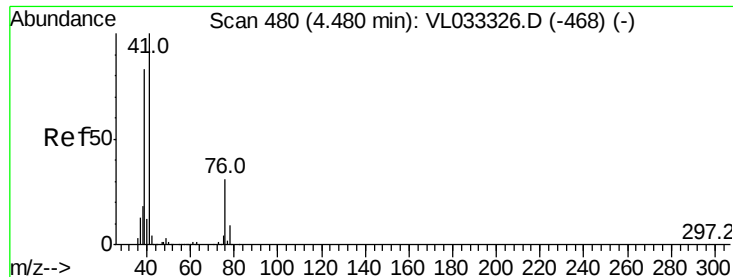
84 100

49 139.0 115.4 173.0

51 39.3 35.8 53.6

86 55.9 50.6 75.8

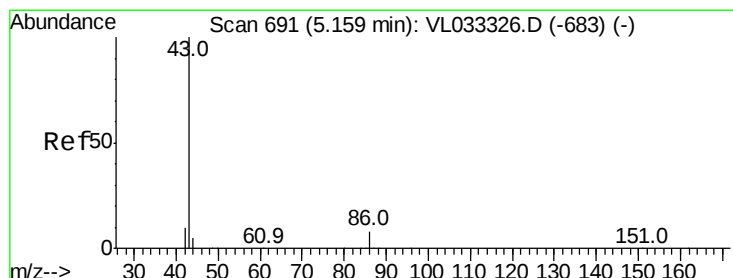
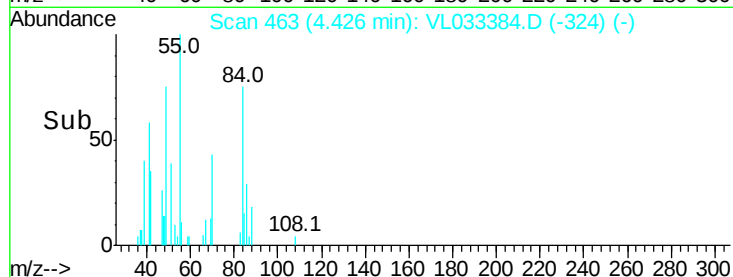
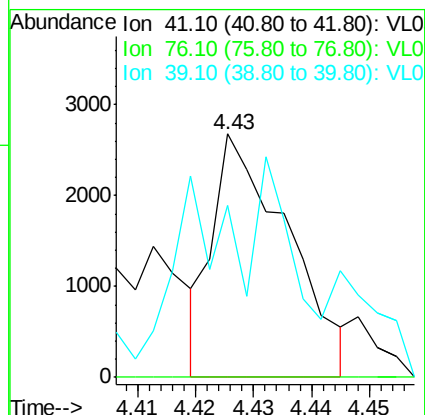
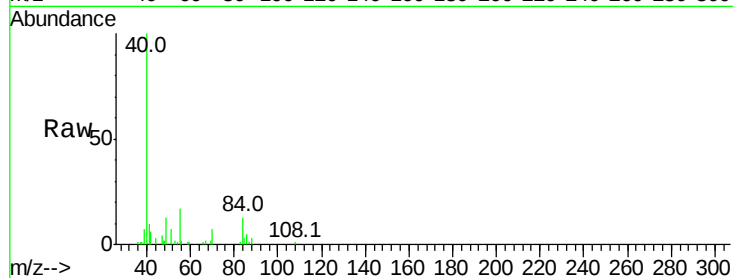




#21
 Allyl Chloride
 Concen: 0.043 ppbv
 RT: 4.43 min Scan# 463
 Delta R.T. -0.05 min
 Lab File: VL033384.D
 Acq: 19 Mar 2019 10:21

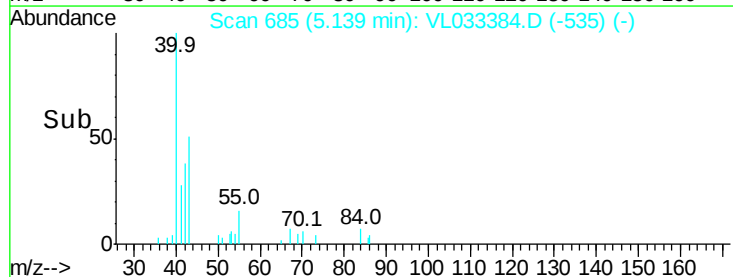
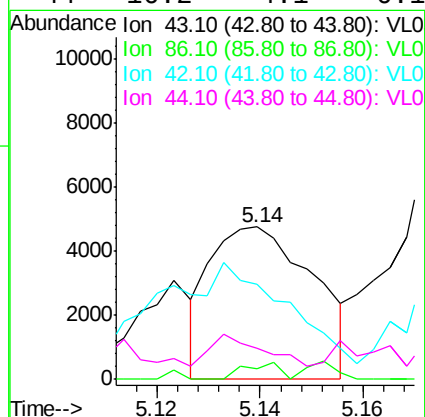
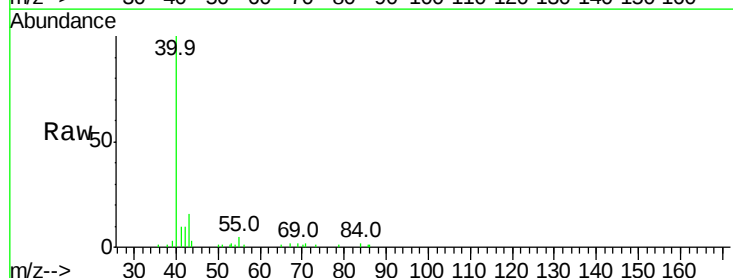
Instrument :
 MSVOA_L
 ClientSampleId :
 ST-SS-1

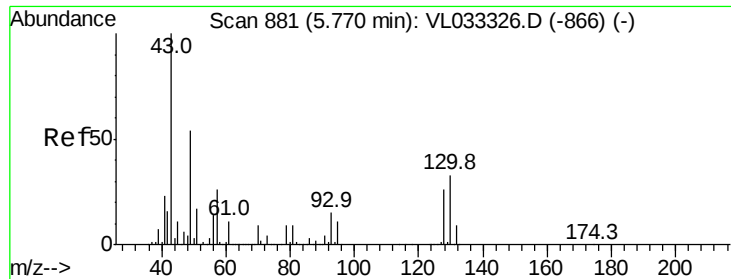
Tgt Ion: 41 Resp: 2396
 Ion Ratio Lower Upper
 41 100
 76 0.0 25.0 37.4#
 39 158.9 65.9 98.9#



#23
 Vinyl Acetate
 Concen: 0.049 ppbv
 RT: 5.14 min Scan# 685
 Delta R.T. -0.02 min
 Lab File: VL033384.D
 Acq: 19 Mar 2019 10:21

Tgt Ion: 43 Resp: 6576
 Ion Ratio Lower Upper
 43 100
 86 9.2 6.2 9.2
 42 60.0 8.1 12.1#
 44 16.2 4.1 6.1#





#25

Ethyl Acetate

Concen: 0.100 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.01 min

Lab File: VL033384.D

Acq: 19 Mar 2019 10:21

Instrument :

MSVOA_L

ClientSampleId :

ST-SS-1

Tgt Ion: 43 Resp: 16833

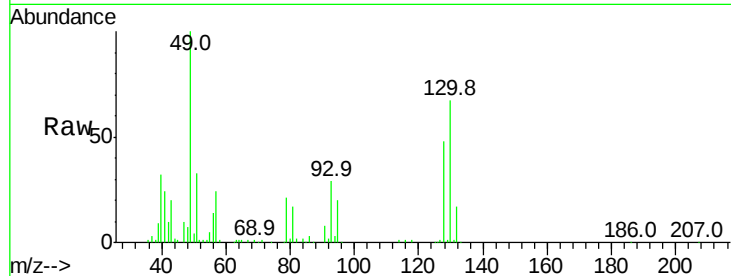
Ion Ratio Lower Upper

43 100

45 1.9 7.9 11.9#

61 0.4 7.4 11.2#

70 2.9 5.7 8.5#

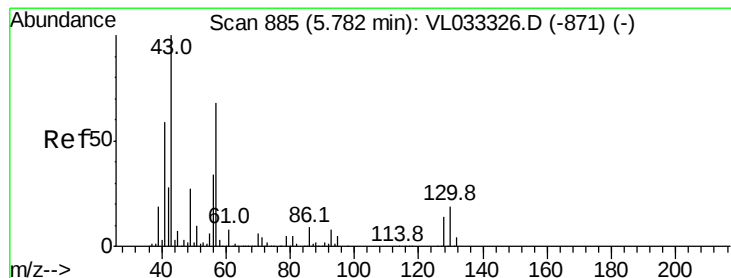
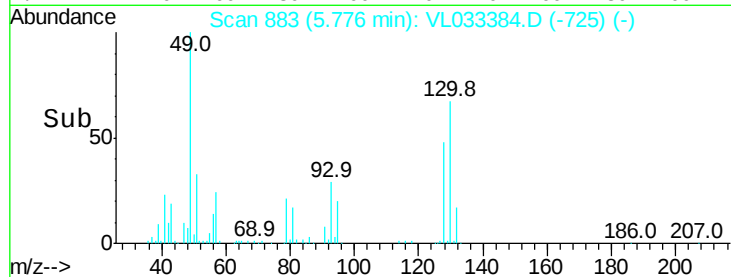
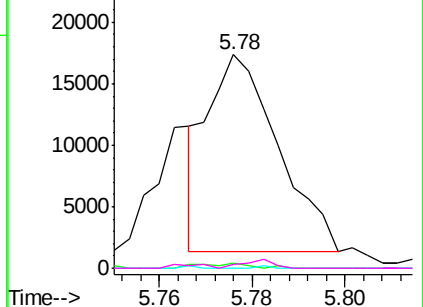


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.484 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.01 min

Lab File: VL033384.D

Acq: 19 Mar 2019 10:21

Tgt Ion: 57 Resp: 36409

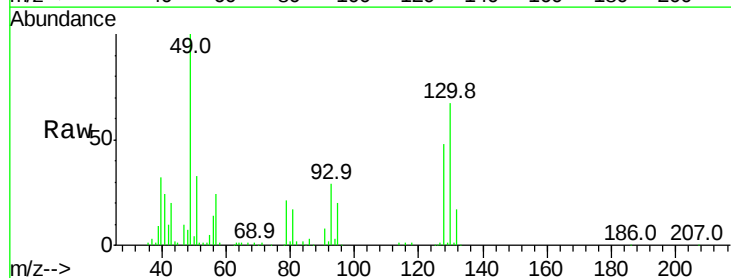
Ion Ratio Lower Upper

57 100

41 106.5 70.5 105.7#

43 78.1 181.8 272.8#

56 56.8 42.2 63.2

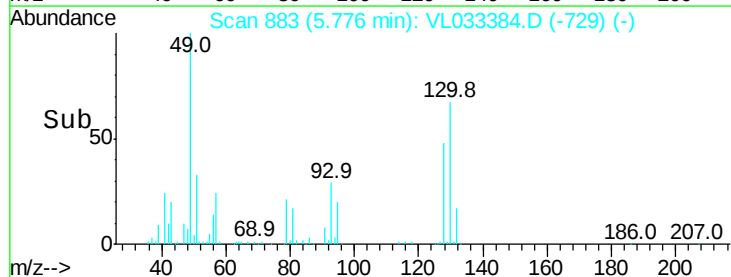
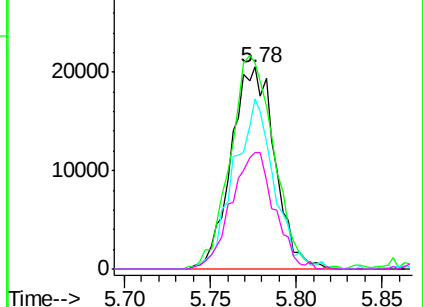


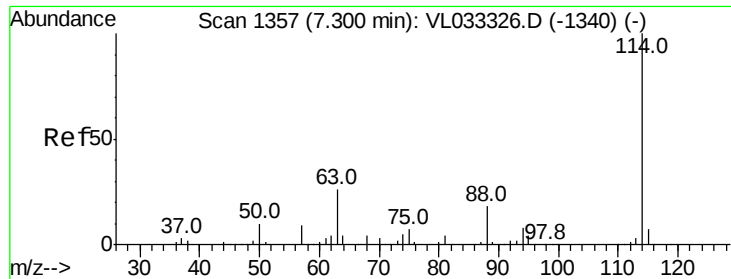
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

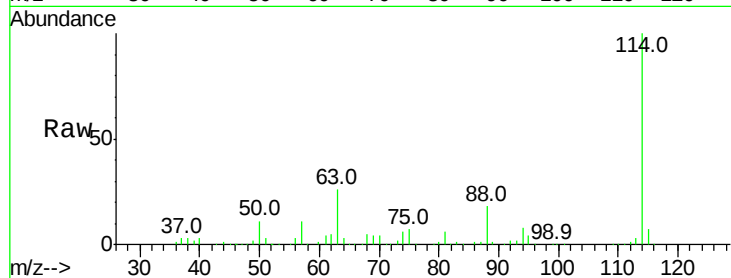




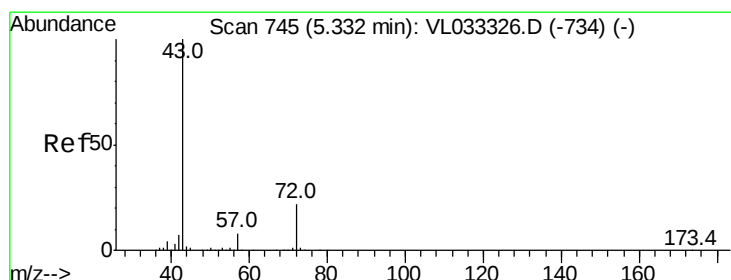
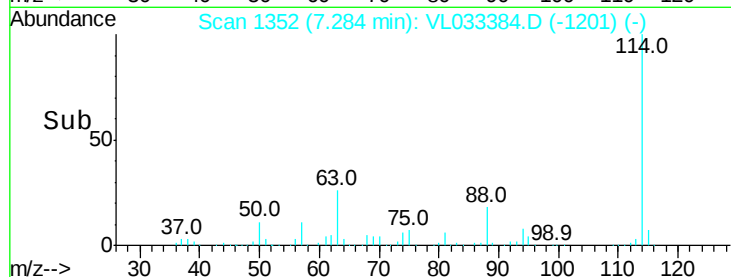
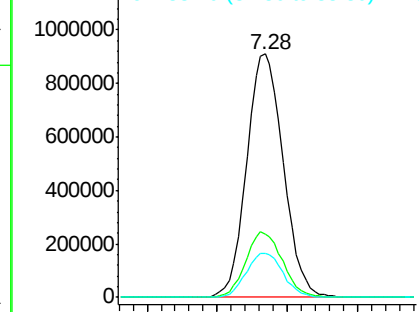
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.02 min
 Lab File: VL033384.D
 Acq: 19 Mar 2019 10:21

Instrument :
 MSVOA_L
 ClientSampleId :
 ST-SS-1

Tgt Ion:114 Resp: 1655375
 Ion Ratio Lower Upper
 114 100
 63 27.0 21.4 32.2
 88 18.4 14.5 21.7

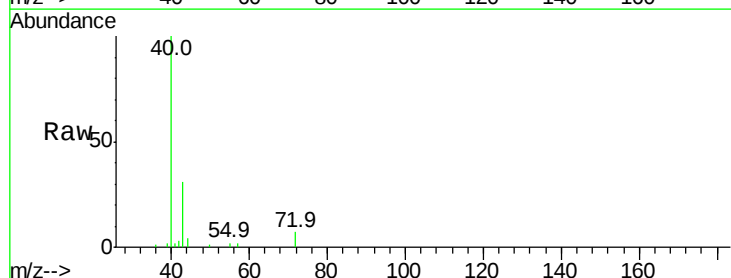


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

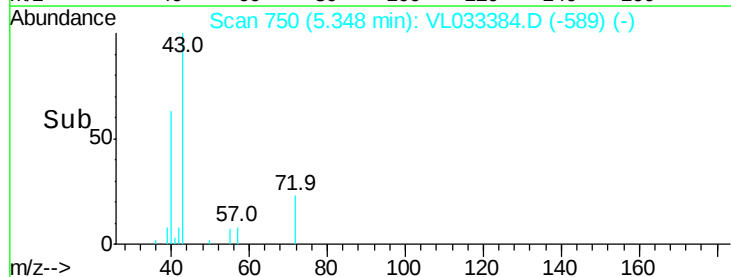
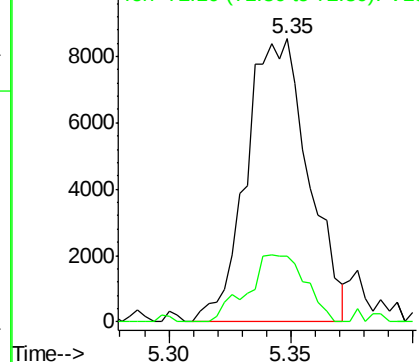


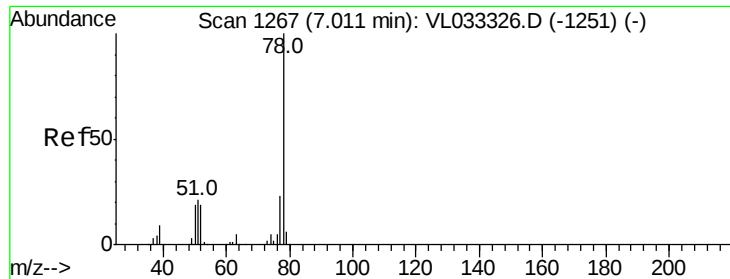
#34
 2-Butanone
 Concen: 0.138 ppbv
 RT: 5.35 min Scan# 750
 Delta R.T. 0.02 min
 Lab File: VL033384.D
 Acq: 19 Mar 2019 10:21

Tgt Ion: 43 Resp: 15039
 Ion Ratio Lower Upper
 43 100
 72 22.5 17.7 26.5



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.055 ppbv

RT: 6.99 min Scan# 1262

Delta R.T. -0.02 min

Lab File: VL033384.D

Acq: 19 Mar 2019 10:21

Instrument :

MSVOA_L

ClientSampled :

ST-SS-1

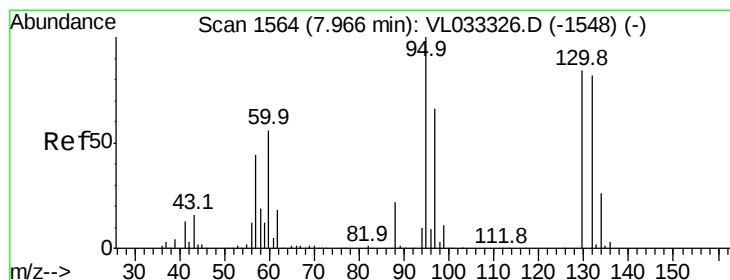
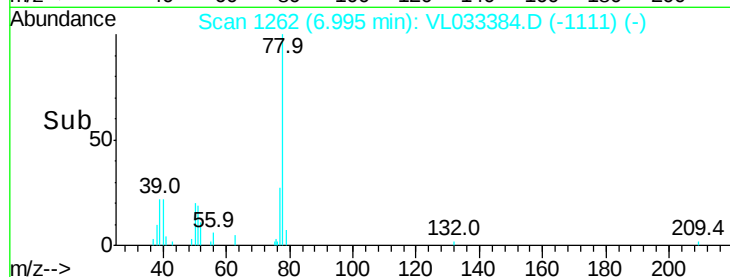
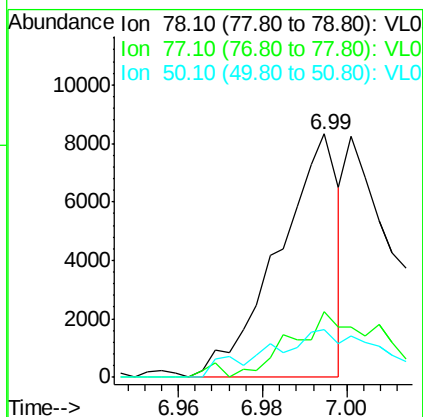
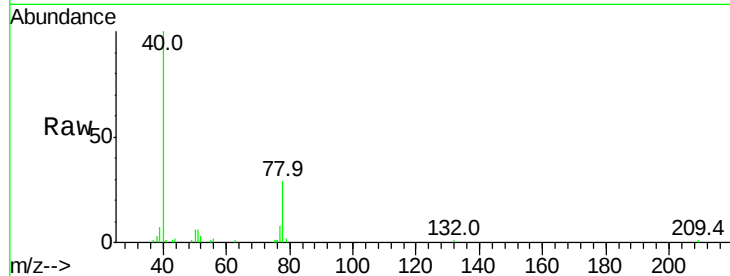
Tgt Ion: 78 Resp: 8213

Ion Ratio Lower Upper

78 100

77 27.0 18.1 27.1

50 19.8 15.2 22.8



#38

Trichloroethene

Concen: 0.973 ppbv

RT: 7.95 min Scan# 1560

Delta R.T. -0.01 min

Lab File: VL033384.D

Acq: 19 Mar 2019 10:21

Tgt Ion: 130 Resp: 54544

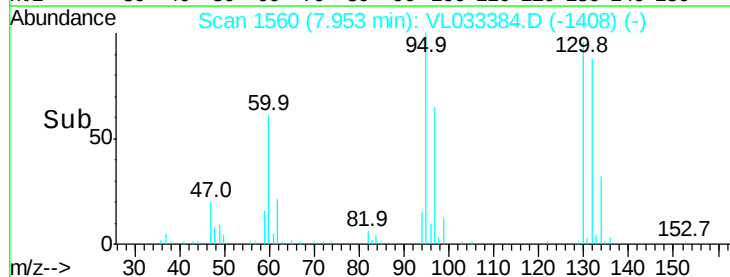
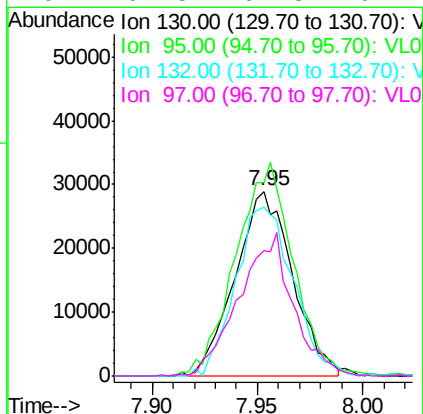
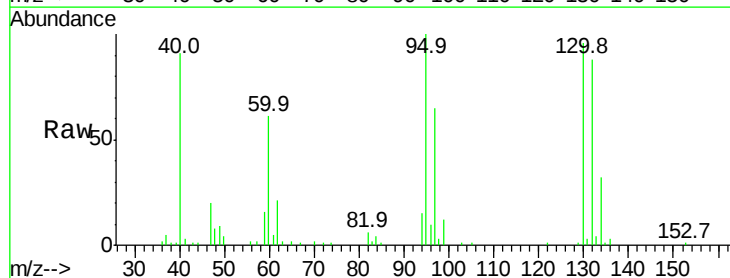
Ion Ratio Lower Upper

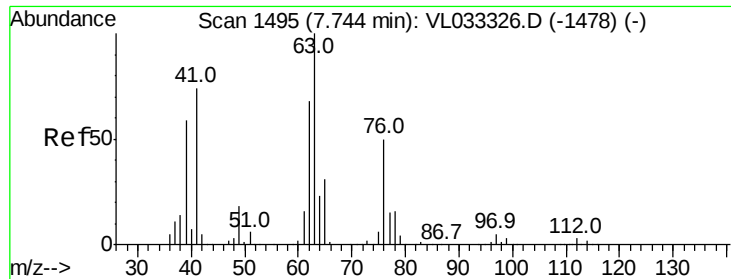
130 100

95 101.5 95.2 142.8

132 95.6 77.7 116.5

97 67.5 62.8 94.2

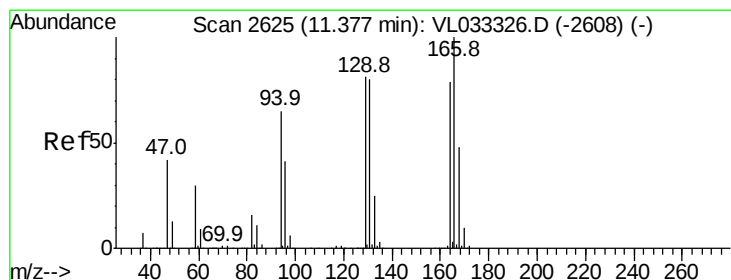
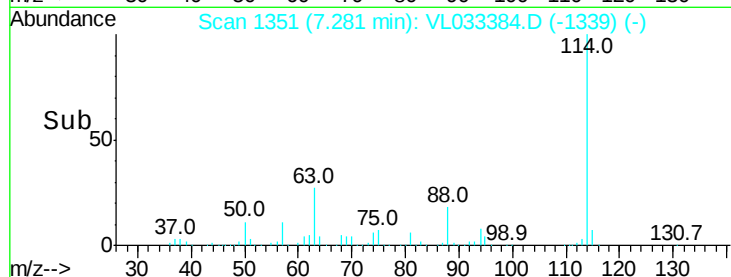
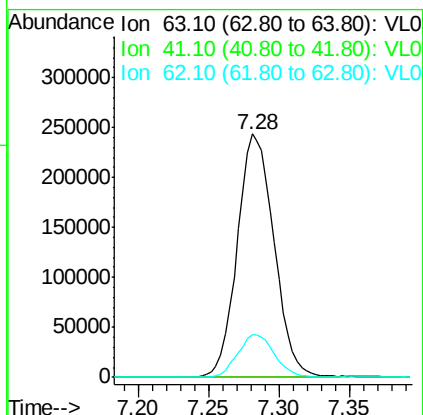
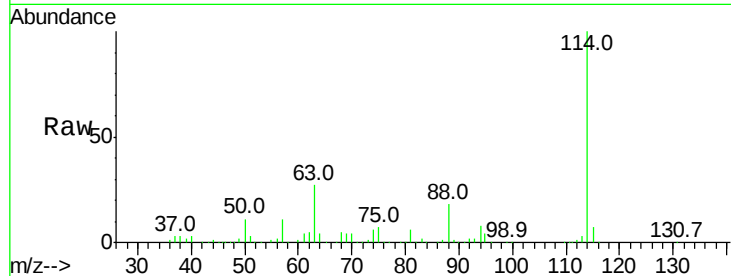




#39
 1,2-Dichloropropane
 Concen: 7.998 ppbv
 RT: 7.28 min Scan# 1351
 Delta R.T. -0.46 min
 Lab File: VL033384.D
 Acq: 19 Mar 2019 10:21

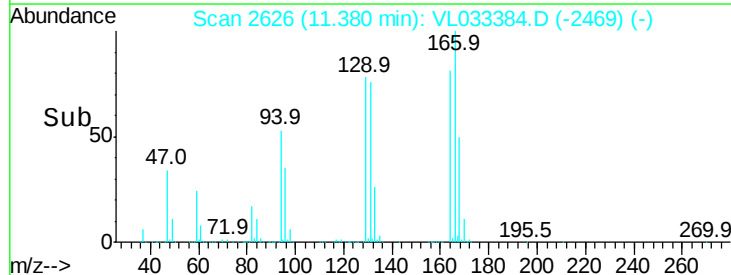
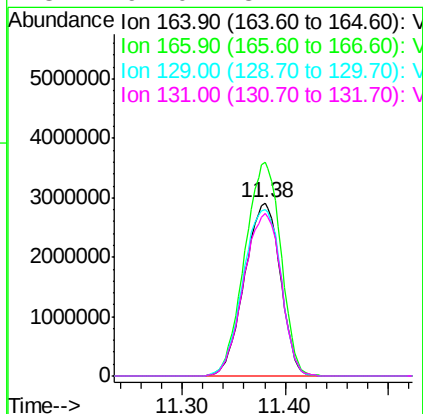
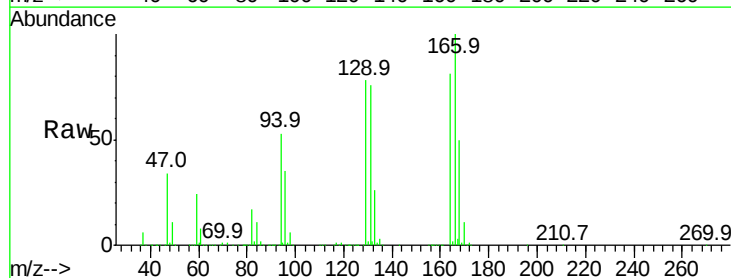
Instrument :
 MSVOA_L
 ClientSampleId :
 ST-SS-1

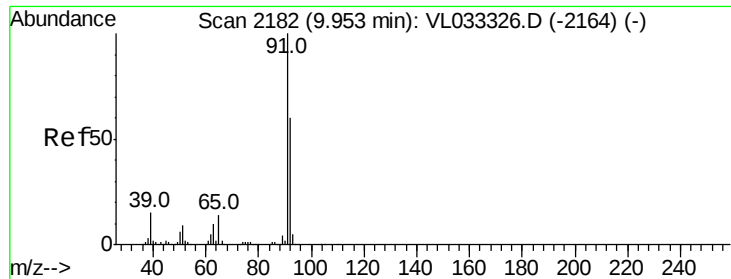
Tgt Ion: 63 Resp: 443727
 Ion Ratio Lower Upper
 63 100
 41 0.0 59.5 89.3#
 62 17.7 54.7 82.1#



#52
 Tetrachloroethene
 Concen: 113.983 ppbv
 RT: 11.38 min Scan# 2626
 Delta R.T. 0.00 min
 Lab File: VL033384.D
 Acq: 19 Mar 2019 10:21

Tgt Ion:164 Resp: 7034883
 Ion Ratio Lower Upper
 164 100
 166 123.4 101.5 152.3
 129 95.9 82.2 123.2
 131 94.0 81.1 121.7





#53

Toluene

Concen: 0.679 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL033384.D

Acq: 19 Mar 2019 10:21

Instrument :

MSVOA_L

ClientSampleId :

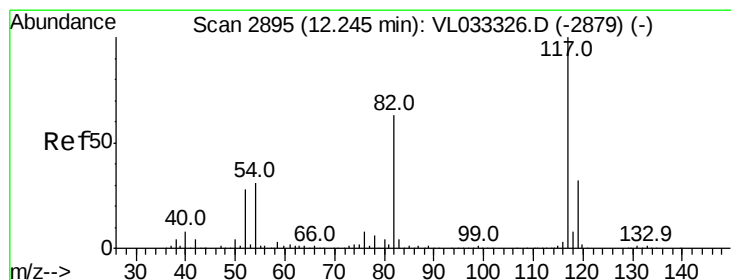
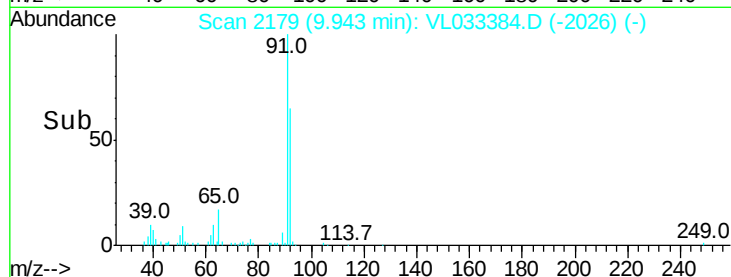
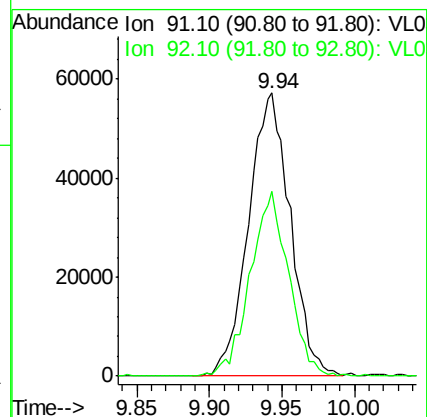
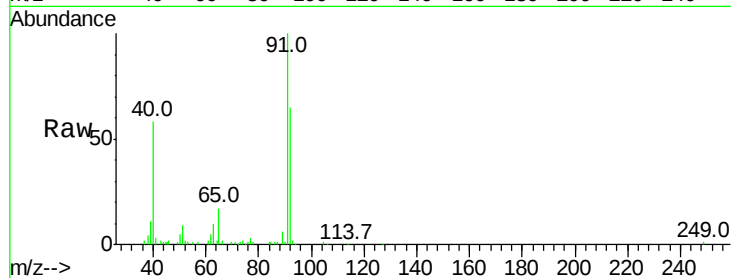
ST-SS-1

Tgt Ion: 91 Resp: 114356

Ion Ratio Lower Upper

91 100

92 60.2 47.4 71.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033384.D

Acq: 19 Mar 2019 10:21

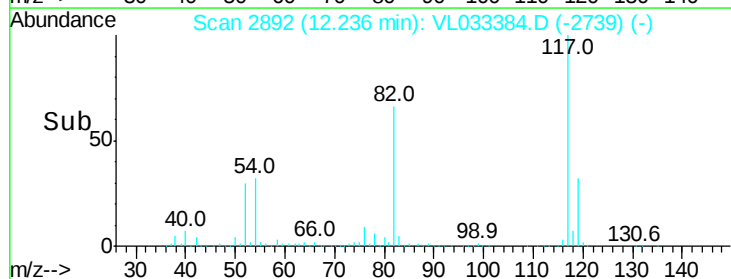
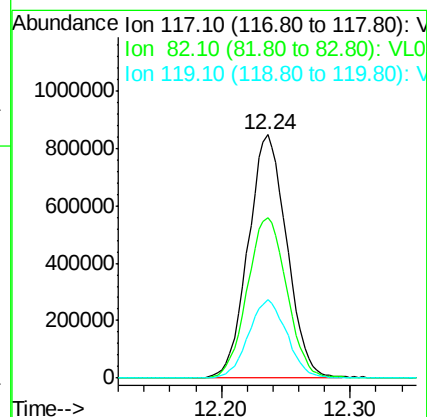
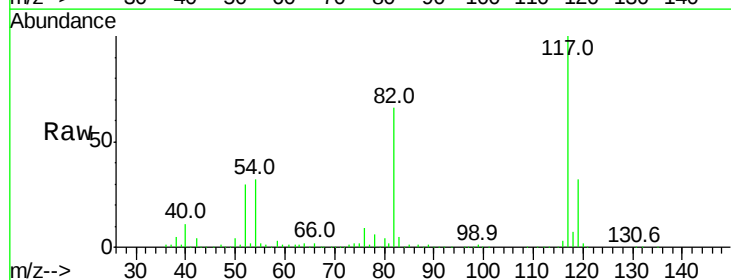
Tgt Ion: 117 Resp: 1766430

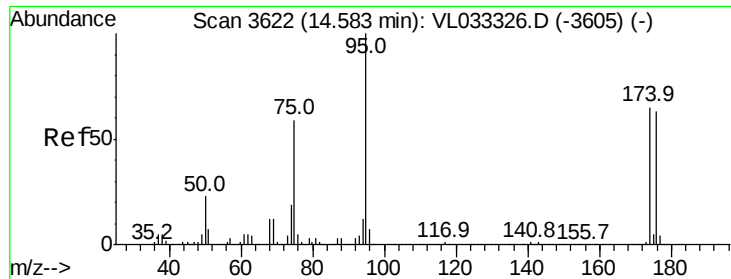
Ion Ratio Lower Upper

117 100

82 68.0 53.4 80.2

119 32.1 27.3 40.9





#68

1-Bromo-4-Fluorobenzene

Concen: 10.268 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033384.D

Acq: 19 Mar 2019 10:21

Instrument :

MSVOA_L

ClientSampleId :

ST-SS-1

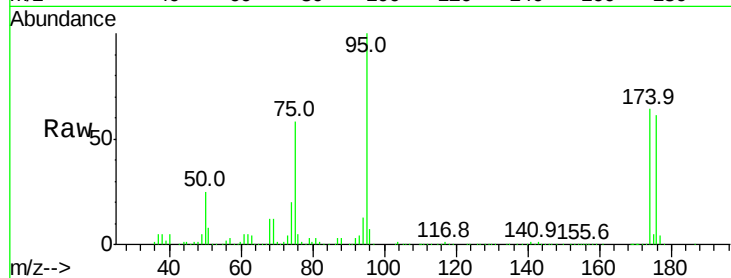
Tgt Ion: 95 Resp: 1343956

Ion Ratio Lower Upper

95 100

174 64.4 51.5 77.3

175 4.7 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

