

Data File : VL033378.D
Acq On : 19 Mar 2019 3:55
Operator : SY/AP
Sample : K1805-05DL 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
L1HA-OA1DL

Quant Time: Mar 19 06:59:11 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	717414	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1597780	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	1773322	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.57 95 1361027 10.36 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 103.60%

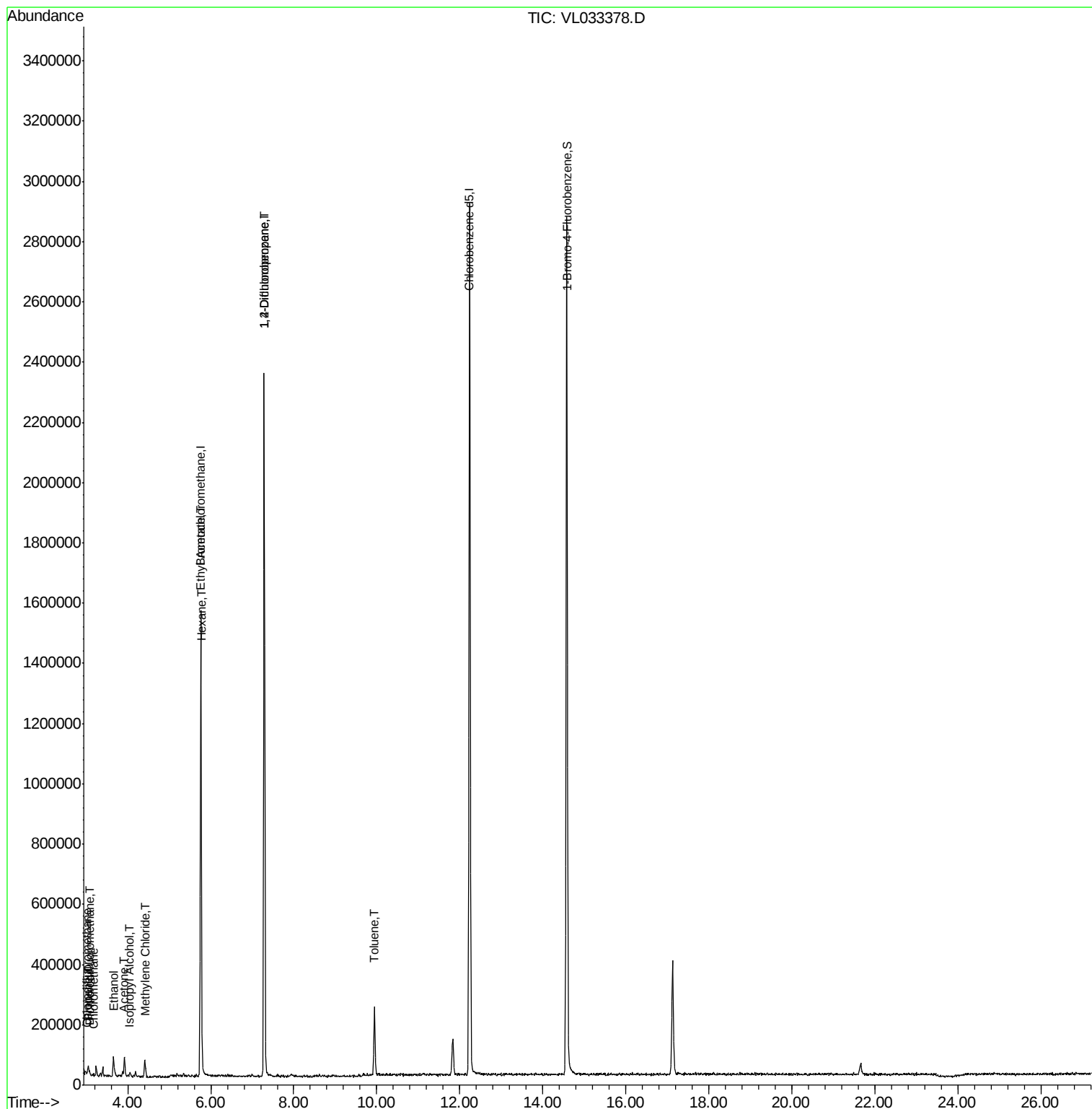
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	6828	0.054	ppbv	96
3) Chlorodifluoromethane	3.01	51	7183	0.087	ppbv #	82
4) Chloromethane	3.18	50	2646	0.059	ppbv #	79
9) Propene	3.05	41	4401	0.120	ppbv	88
13) Ethanol	3.65	45	65405	3.732	ppbv	98
15) Acetone	3.91	43	50418	0.452	ppbv	96
19) Isopropyl Alcohol	4.05	45	5423	0.102	ppbv #	65
20) Methylene Chloride	4.41	84	18085	0.497	ppbv	97
25) Ethyl Acetate	5.77	43	6424	0.040	ppbv #	80
26) Hexane	5.78	57	4836	0.067	ppbv #	1
39) 1,2-Dichloropropane	7.29	63	428659	8.005	ppbv #	24
53) Toluene	9.94	91	166436	1.024	ppbv	98

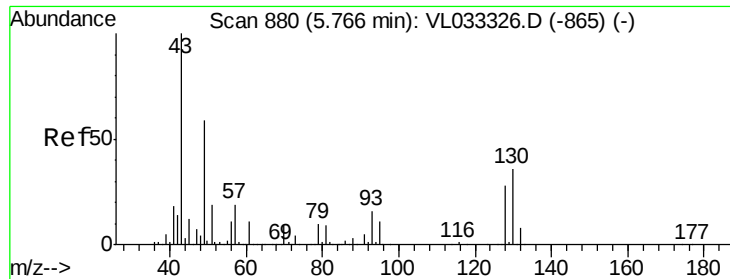
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

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Instrument :

MSVOA_L

ClientSampleId :

L1HA-OA1DL

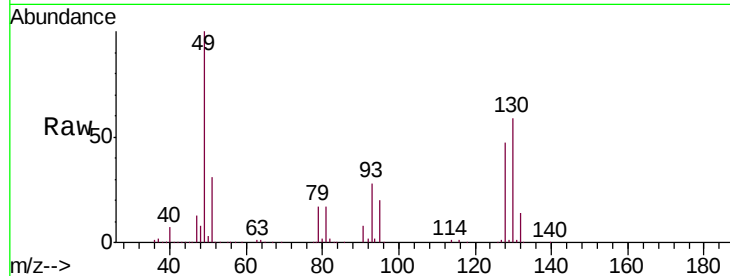
Tgt Ion: 49 Resp: 717414

Ion Ratio Lower Upper

49 100

128 46.9 23.5 70.6

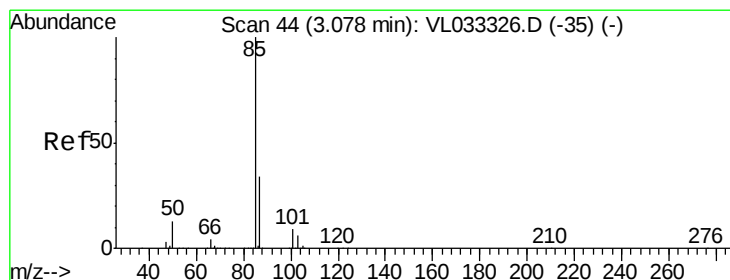
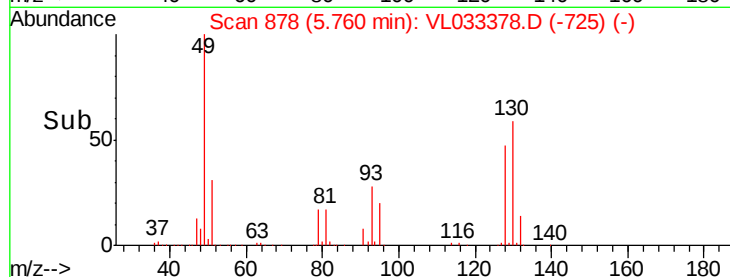
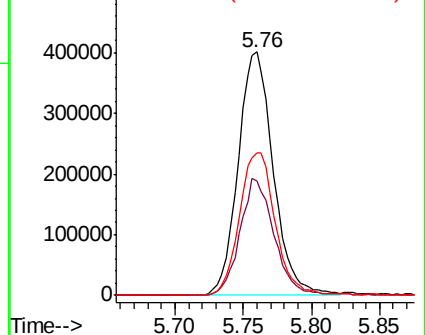
130 61.0 30.1 90.3



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: 0.054 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL033378.D

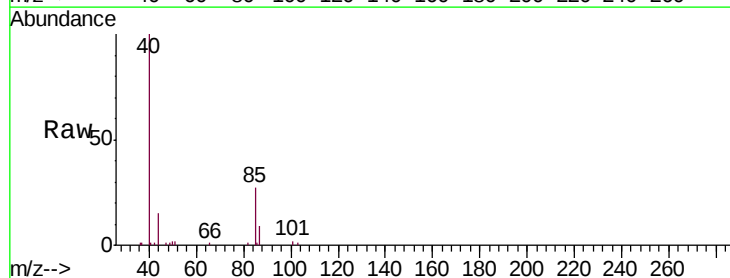
Acq: 19 Mar 2019 3:55

Tgt Ion: 85 Resp: 6828

Ion Ratio Lower Upper

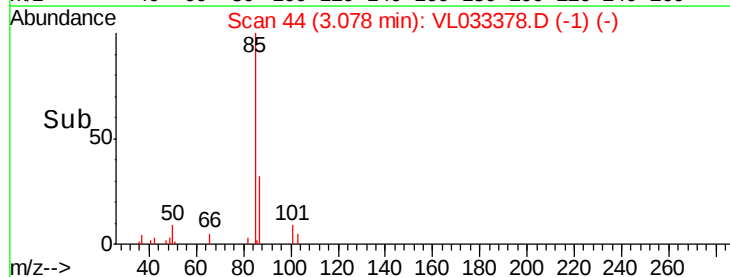
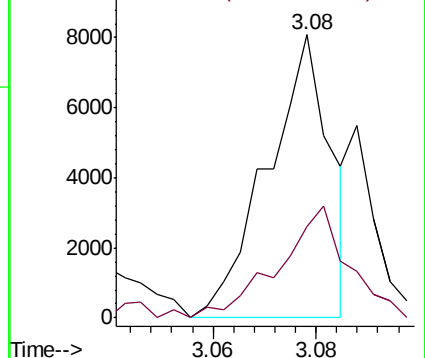
85 100

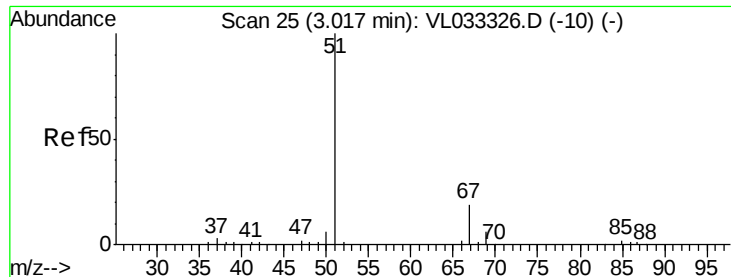
87 31.4 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.087 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033378.D

Acq: 19 Mar 2019 3:55

Instrument :

MSVOA_L

ClientSampleId :

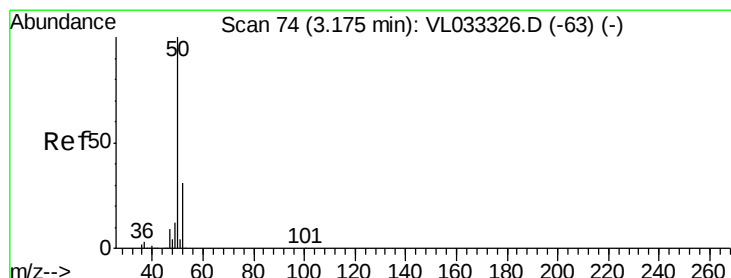
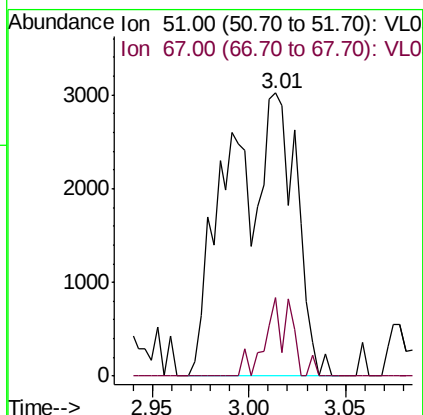
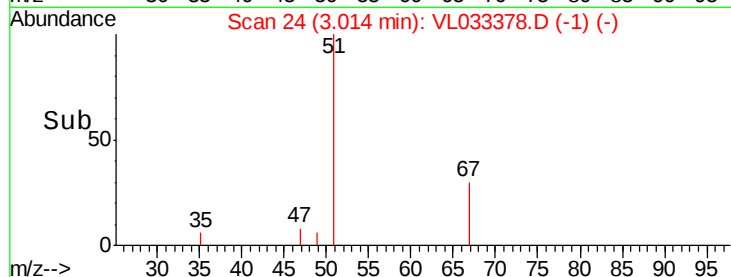
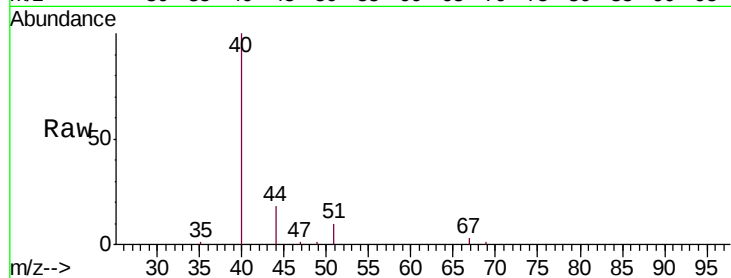
L1HA-OA1DL

Tgt Ion: 51 Resp: 7183

Ion Ratio Lower Upper

51 100

67 10.7 14.9 22.3#



#4

Chloromethane

Concen: 0.059 ppbv

RT: 3.18 min Scan# 75

Delta R.T. 0.00 min

Lab File: VL033378.D

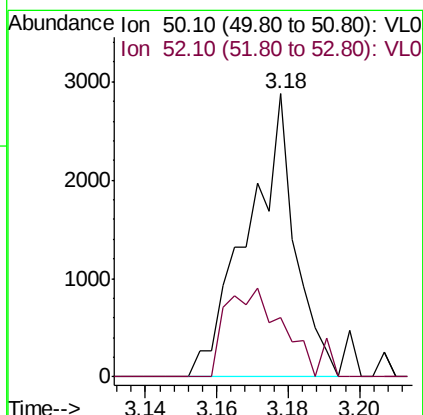
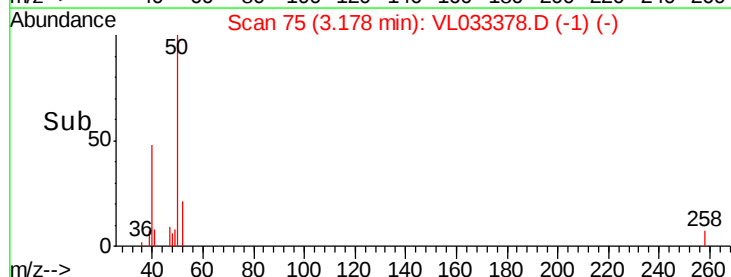
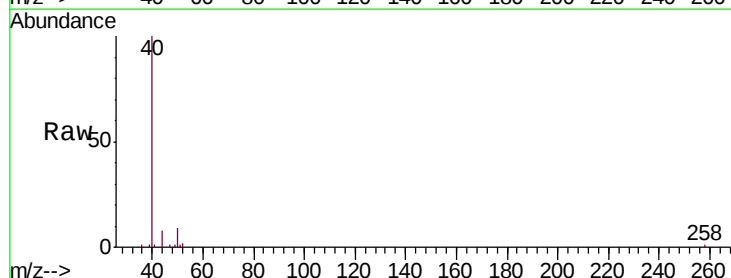
Acq: 19 Mar 2019 3:55

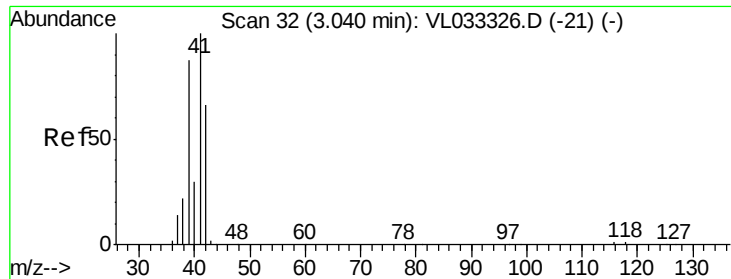
Tgt Ion: 50 Resp: 2646

Ion Ratio Lower Upper

50 100

52 19.8 25.0 37.6#





#9

Propene

Concen: 0.120 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL033378.D

Acq: 19 Mar 2019 3:55

Instrument :

MSVOA_L

ClientSampleId :

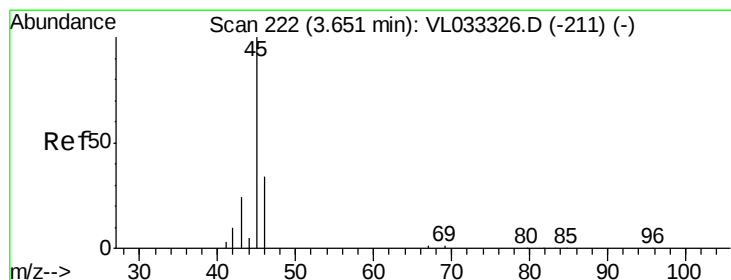
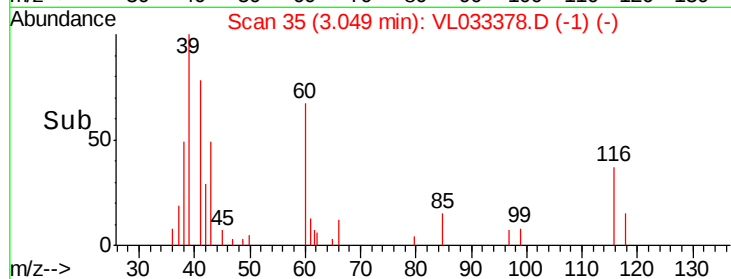
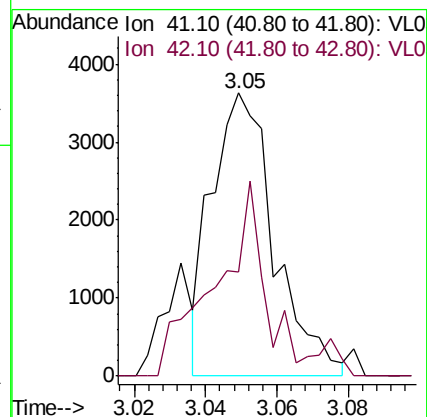
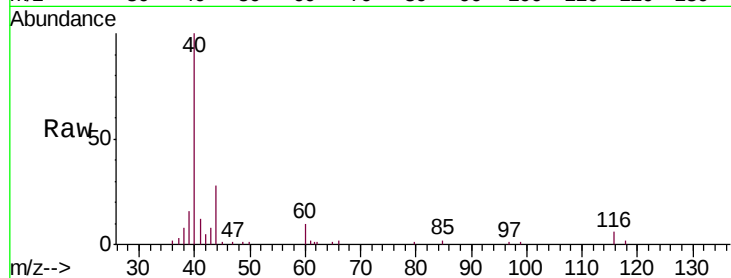
L1HA-OA1DL

Tgt Ion: 41 Resp: 4401

Ion Ratio Lower Upper

41 100

42 59.3 55.2 82.8



#13

Ethanol

Concen: 3.732 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033378.D

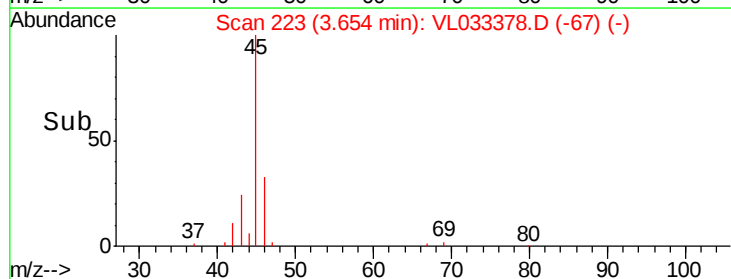
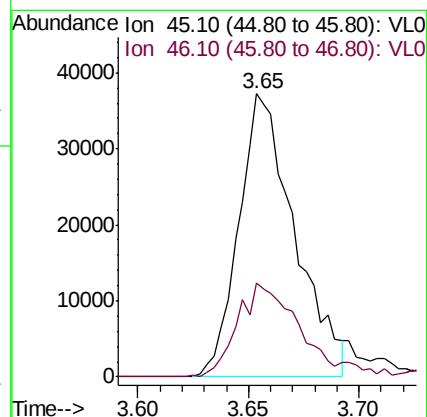
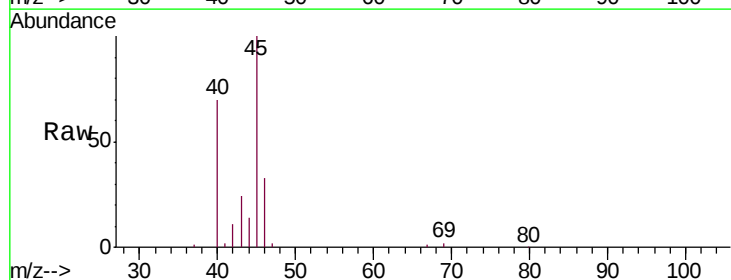
Acq: 19 Mar 2019 3:55

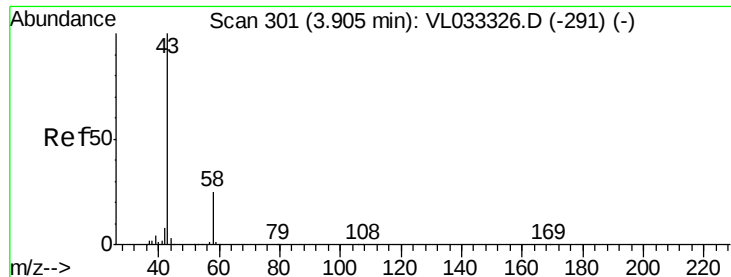
Tgt Ion: 45 Resp: 65405

Ion Ratio Lower Upper

45 100

46 38.7 14.9 59.7





#15

Acetone

Concen: 0.452 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.01 min

Lab File: VL033378.D

Acq: 19 Mar 2019 3:55

Instrument :

MSVOA_L

ClientSampleId :

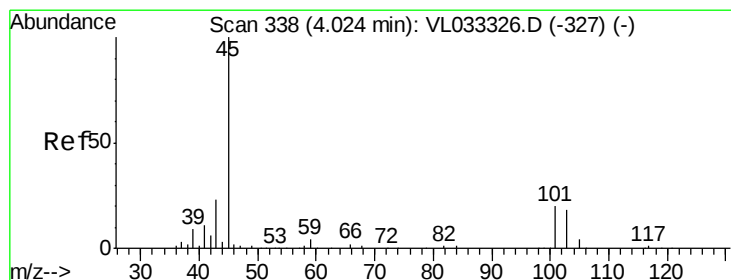
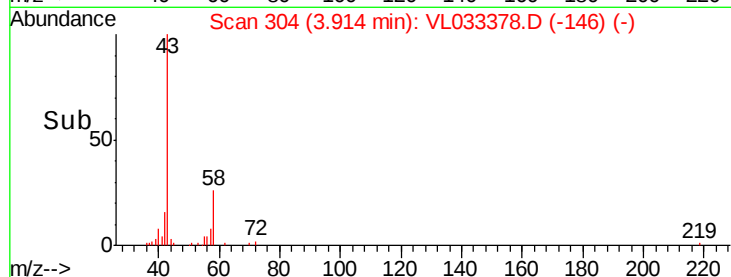
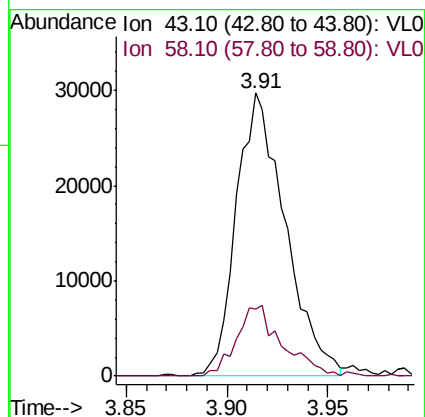
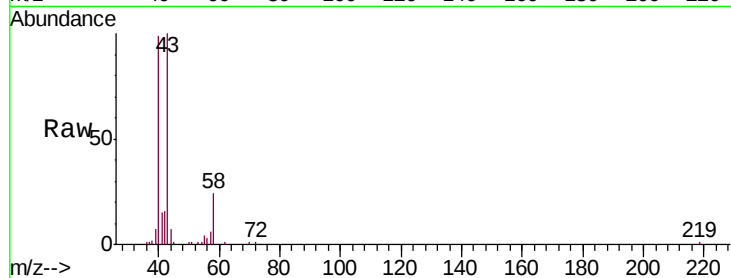
L1HA-OA1DL

Tgt Ion: 43 Resp: 50418

Ion Ratio Lower Upper

43 100

58 23.5 20.4 30.6



#19

Isopropyl Alcohol

Concen: 0.102 ppbv

RT: 4.05 min Scan# 347

Delta R.T. 0.03 min

Lab File: VL033378.D

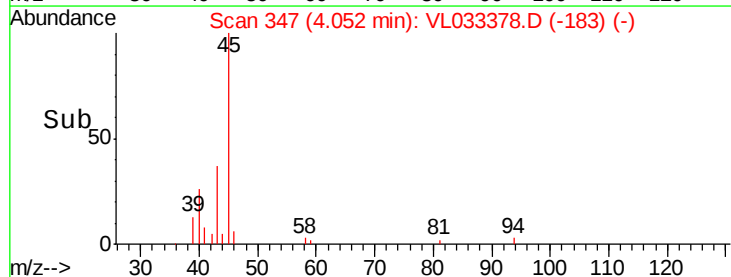
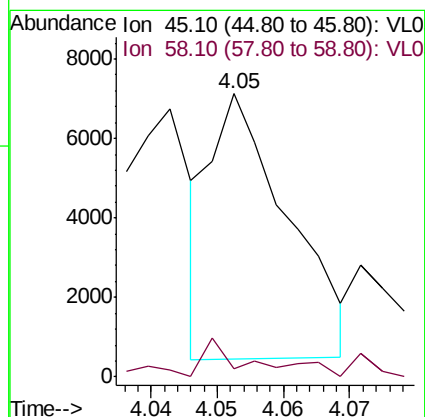
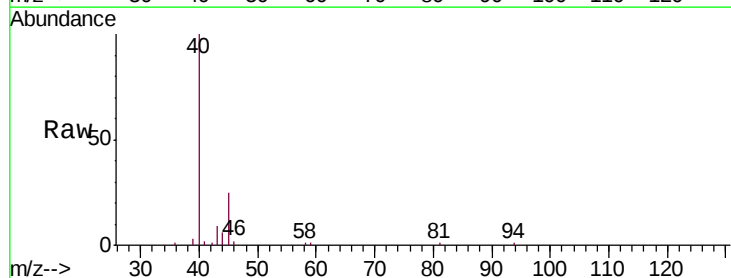
Acq: 19 Mar 2019 3:55

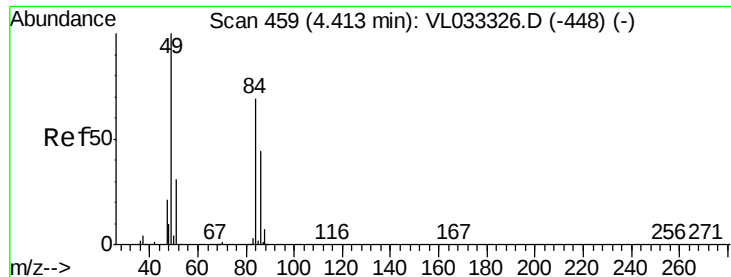
Tgt Ion: 45 Resp: 5423

Ion Ratio Lower Upper

45 100

58 14.5 1.5 2.3#

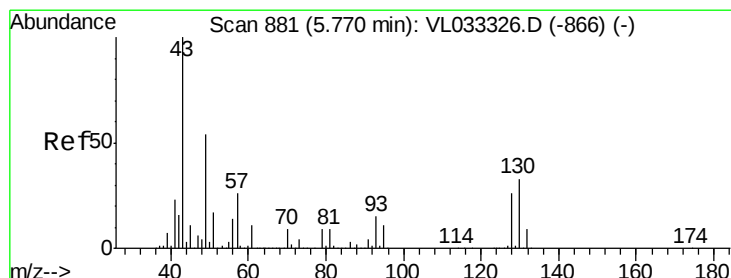
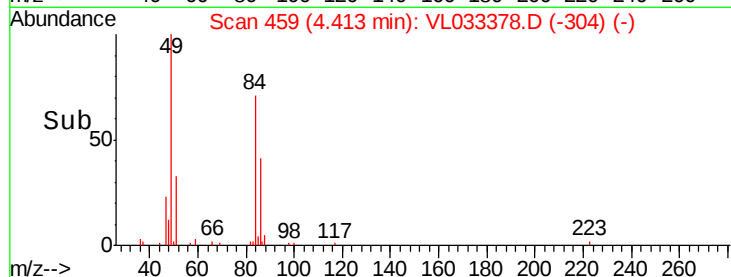
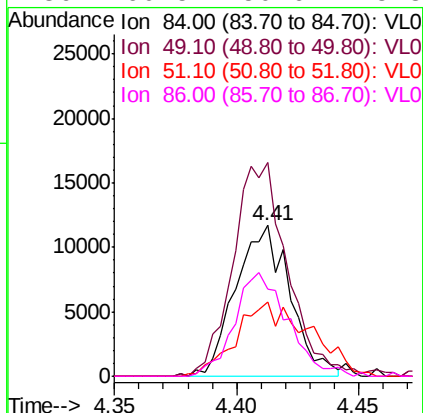
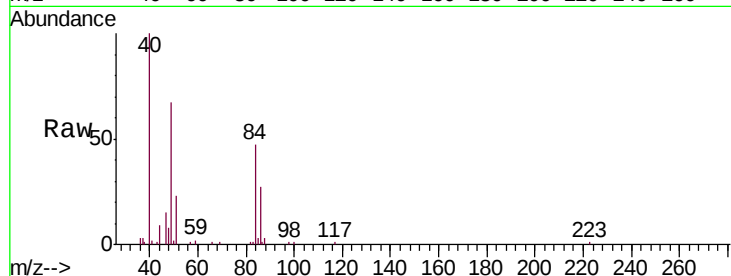




#20
Methylene Chloride
Concen: 0.497 ppbv
RT: 4.41 min Scan# 459
Delta R.T. -0.00 min
Lab File: VL033378.D
Acq: 19 Mar 2019 3:55

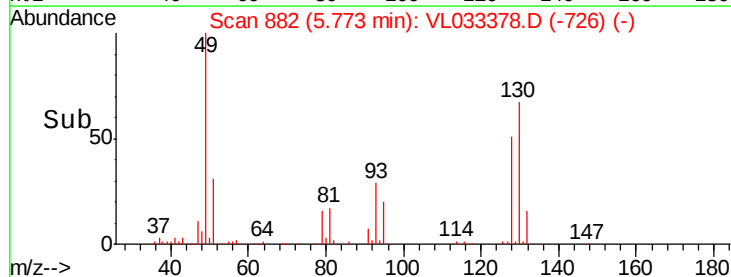
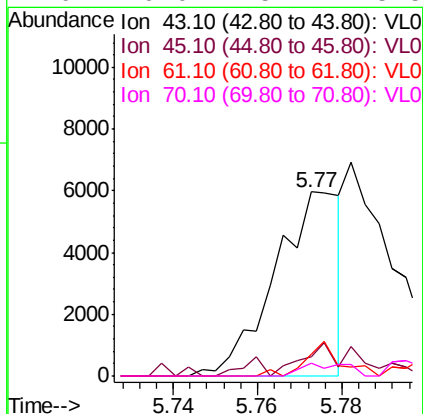
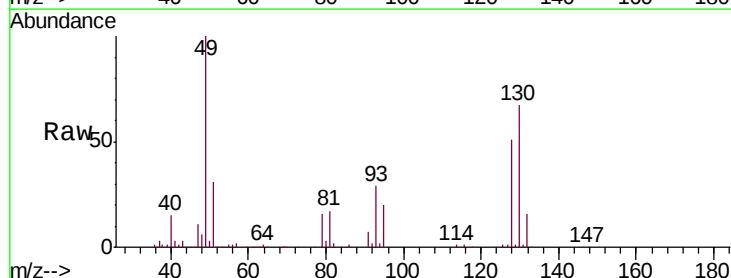
Instrument :
MSVOA_L
ClientSampleId :
L1HA-OA1DL

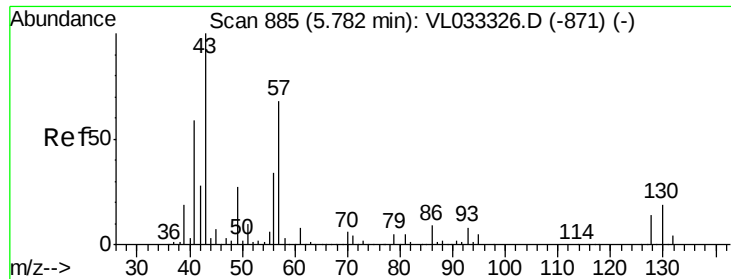
Tgt Ion:	84	Resp:	18085
Ion	Ratio	Lower	Upper
84	100		
49	141.5	115.4	173.0
51	47.2	35.8	53.6
86	60.5	50.6	75.8



#25
Ethyl Acetate
Concen: 0.040 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.00 min
Lab File: VL033378.D
Acq: 19 Mar 2019 3:55

Tgt Ion:	43	Resp:	6424
Ion	Ratio	Lower	Upper
43	100		
45	20.1	7.9	11.9#
61	13.6	7.4	11.2#
70	0.0	5.7	8.5#

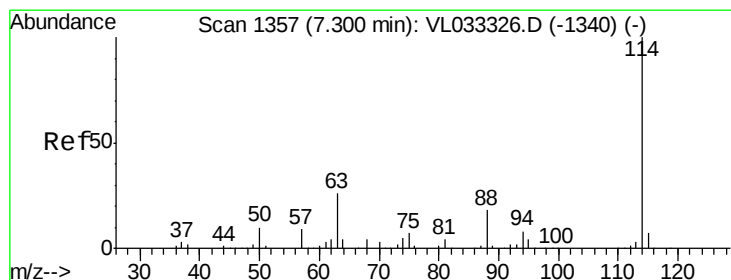
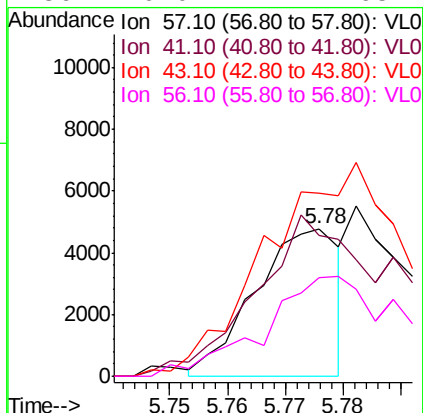
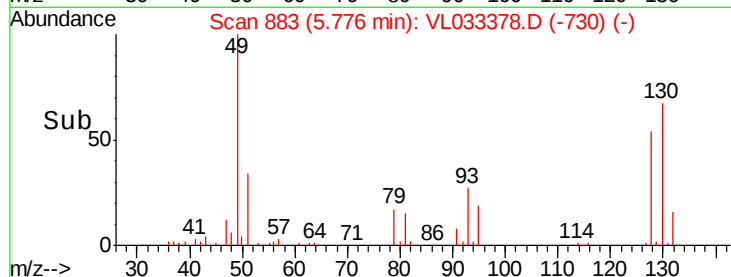
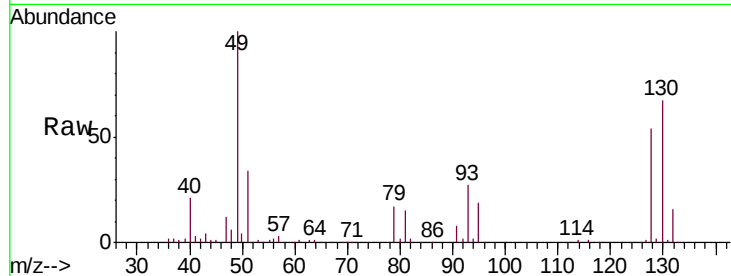




#26
Hexane
Concen: 0.067 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.01 min
Lab File: VL033378.D
Acq: 19 Mar 2019 3:55

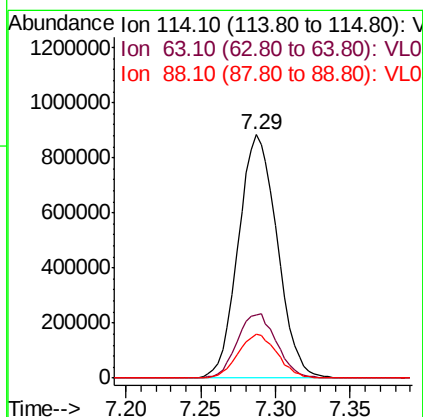
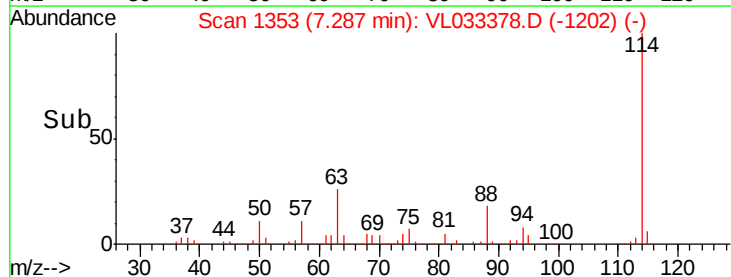
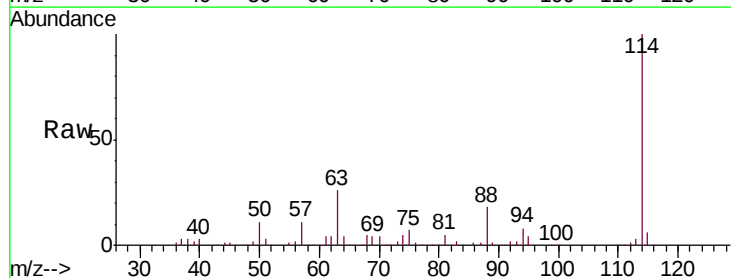
Instrument :
MSVOA_L
ClientSampleID :
L1HA-OA1DL

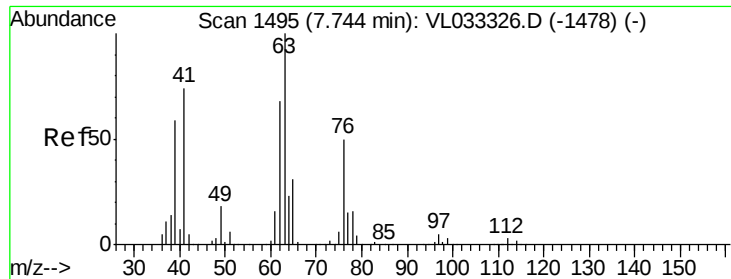
Tgt Ion: 57 Resp: 4836
Ion Ratio Lower Upper
57 100
41 181.6 70.5 105.7#
43 0.0 181.8 272.8#
56 0.0 42.2 63.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033378.D
Acq: 19 Mar 2019 3:55

Tgt Ion: 114 Resp: 1597780
Ion Ratio Lower Upper
114 100
63 27.0 21.4 32.2
88 18.2 14.5 21.7





#39

1,2-Dichloropropane

Concen: 8.005 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.45 min

Lab File: VL033378.D

Acq: 19 Mar 2019 3:55

Instrument :

MSVOA_L

ClientSampleId :

L1HA-OA1DL

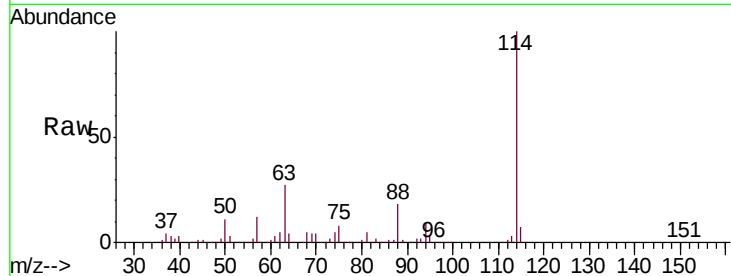
Tgt Ion: 63 Resp: 428659

Ion Ratio Lower Upper

63 100

41 0.0 59.5 89.3#

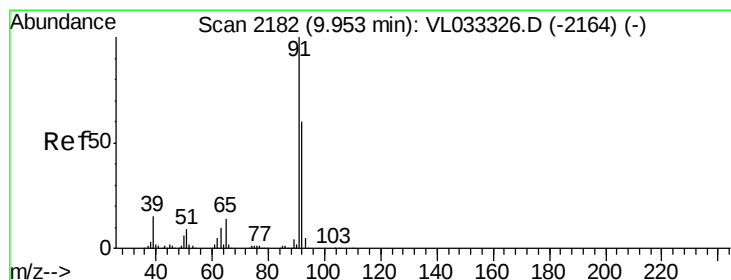
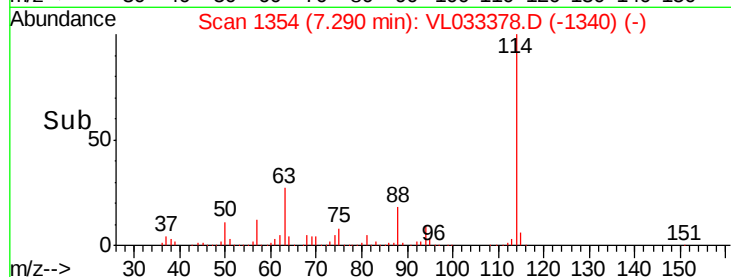
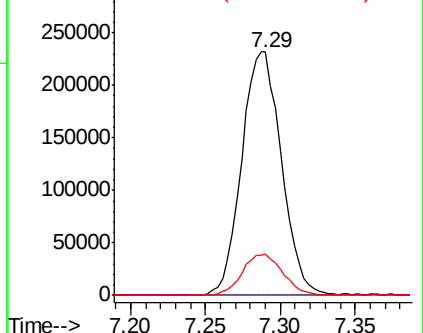
62 16.8 54.7 82.1#



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: 1.024 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL033378.D

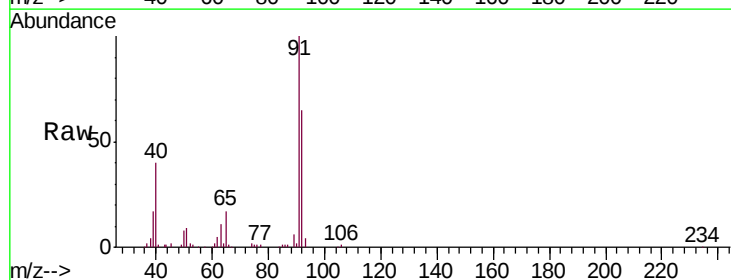
Acq: 19 Mar 2019 3:55

Tgt Ion: 91 Resp: 166436

Ion Ratio Lower Upper

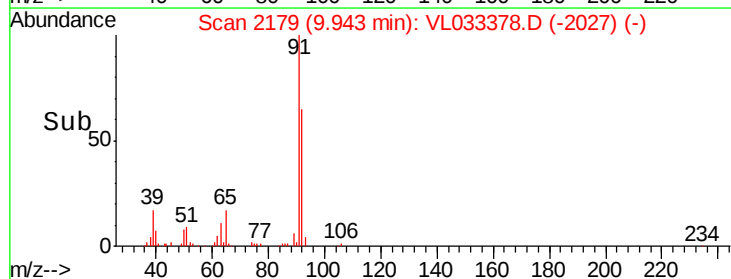
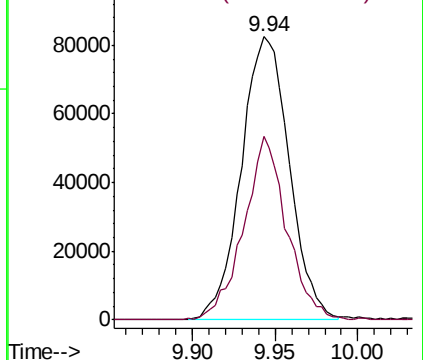
91 100

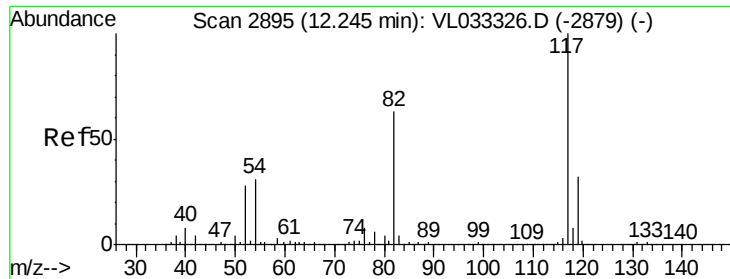
92 58.1 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

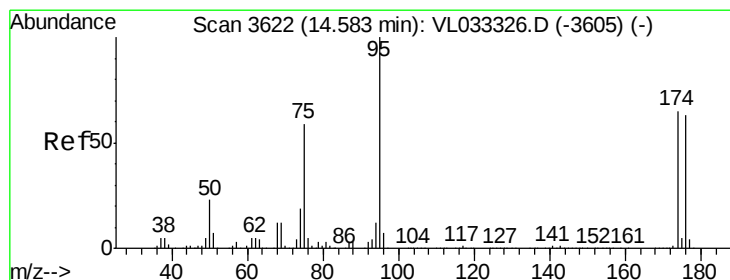
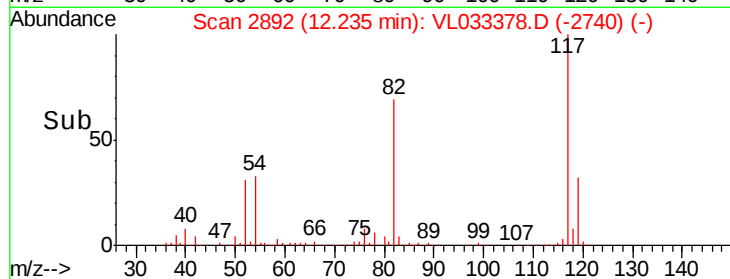
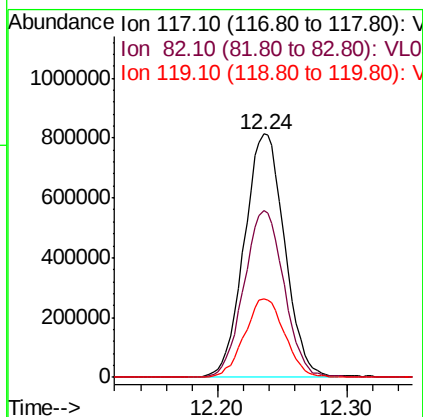
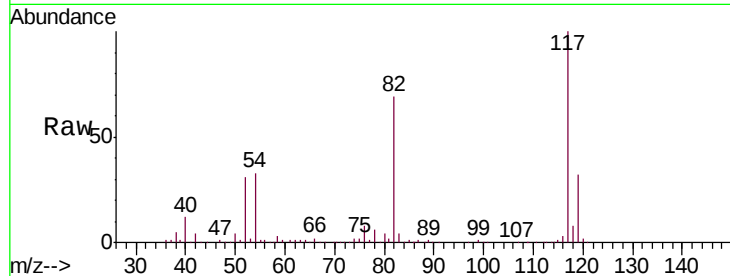




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033378.D
Acq: 19 Mar 2019 3:55

Instrument :
MSVOA_L
ClientSampleId :
L1HA-OA1DL

Tgt Ion:117 Resp: 1773322
Ion Ratio Lower Upper
117 100
82 68.4 53.4 80.2
119 32.3 27.3 40.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.358 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033378.D
Acq: 19 Mar 2019 3:55

Tgt Ion: 95 Resp: 1361027
Ion Ratio Lower Upper
95 100
174 63.6 51.5 77.3
175 4.5 3.8 5.6

