

Data File : VL033372.D
Acq On : 18 Mar 2019 23:59
Operator : SY/AP
Sample : K1952-03DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
L1HA-IA1DL

Quant Time: Mar 19 06:57:15 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	753222	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1690609	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1631340	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.57 95 1264673 10.46 ppbv -0.01
Spiked Amount 10.000 Range 65 - 135 Recovery = 104.60%

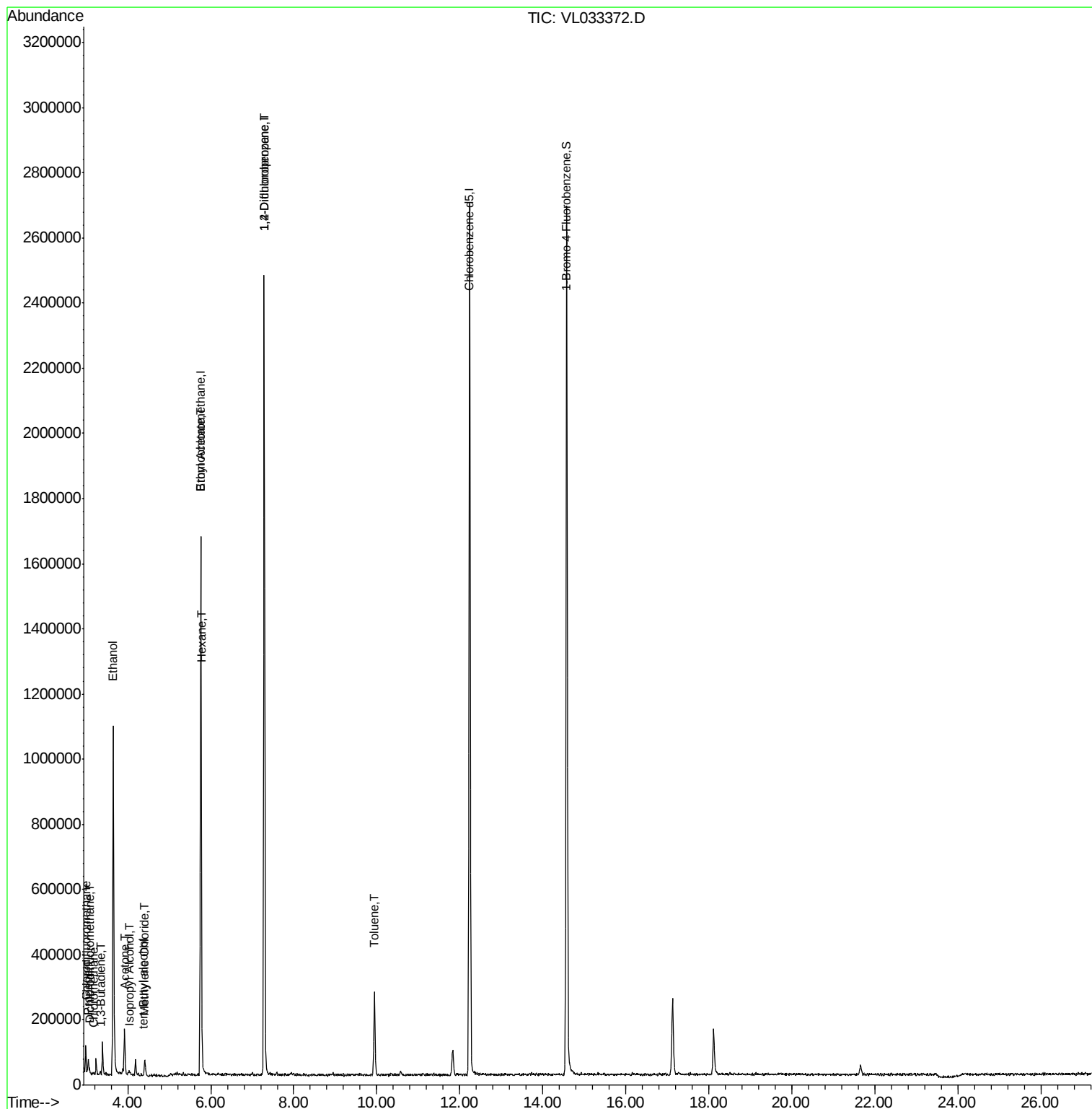
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	8709	0.066	ppbv #	86
3) Chlorodifluoromethane	2.99	51	8606	0.100	ppbv #	78
4) Chloromethane	3.18	50	2789	0.060	ppbv	89
9) Propene	3.05	41	6533	0.169	ppbv #	74
13) Ethanol	3.65	45	1118952	60.819	ppbv	97
15) Acetone	3.91	43	88836	0.759	ppbv #	85
16) 1,3-Butadiene	3.34	39	1404	0.037	ppbv #	13
17) tert-Butyl alcohol	4.37	59	1604	0.097	ppbv #	74
19) Isopropyl Alcohol	4.03	45	11826	0.212	ppbv #	1
20) Methylene Chloride	4.41	84	13839	0.362	ppbv	91
25) Ethyl Acetate	5.77	43	5375	0.032	ppbv #	84
26) Hexane	5.78	57	10773	0.142	ppbv #	53
39) 1,2-Dichloropropane	7.29	63	456846	8.063	ppbv #	24
53) Toluene	9.95	91	189839	1.104	ppbv	99

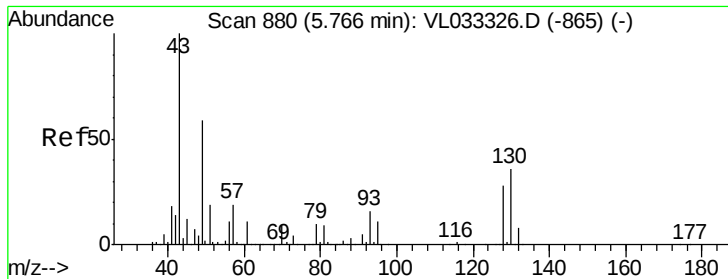
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#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-IA1DL

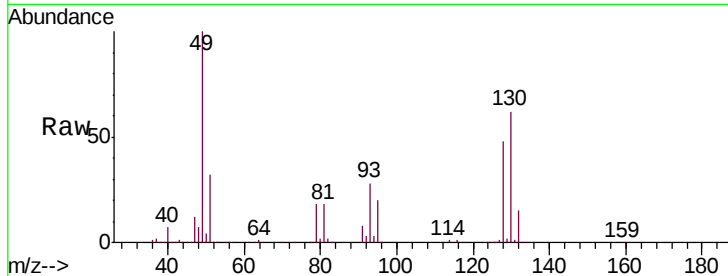
Tgt Ion: 49 Resp: 753222

Ion Ratio Lower Upper

49 100

128 47.6 23.5 70.6

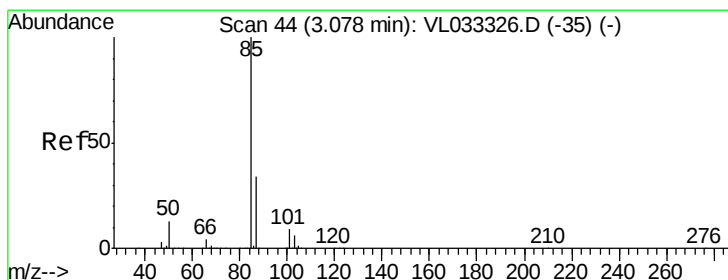
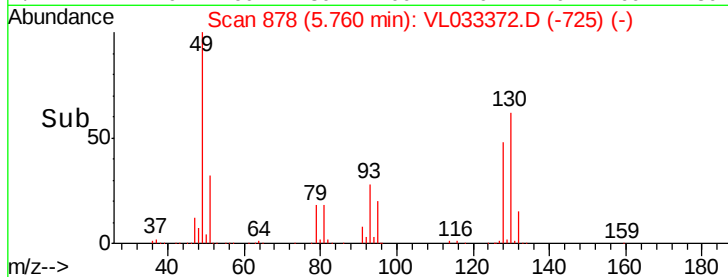
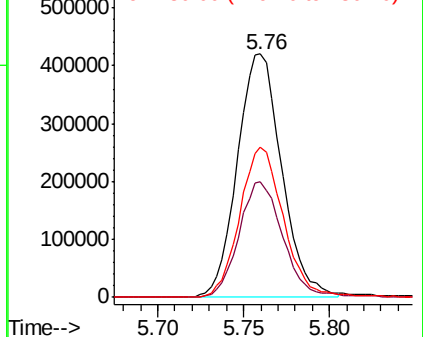
130 61.0 30.1 90.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.066 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL033372.D

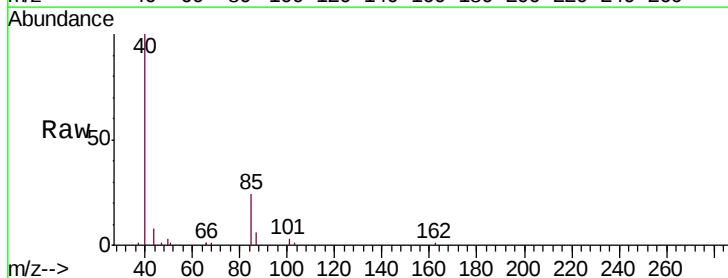
Acq: 18 Mar 2019 23:59

Tgt Ion: 85 Resp: 8709

Ion Ratio Lower Upper

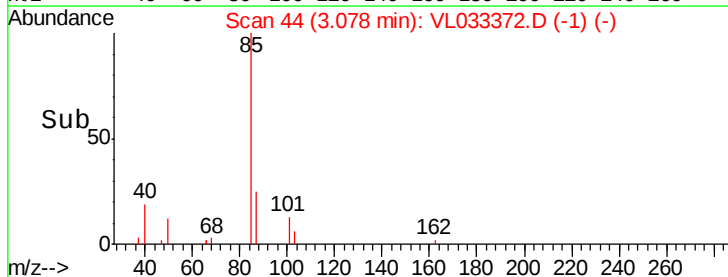
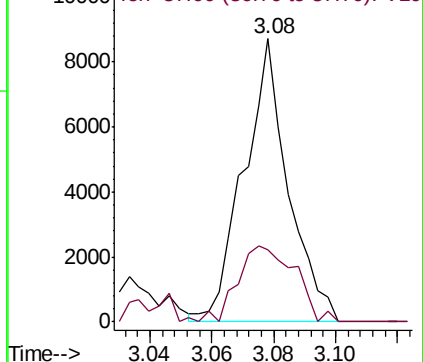
85 100

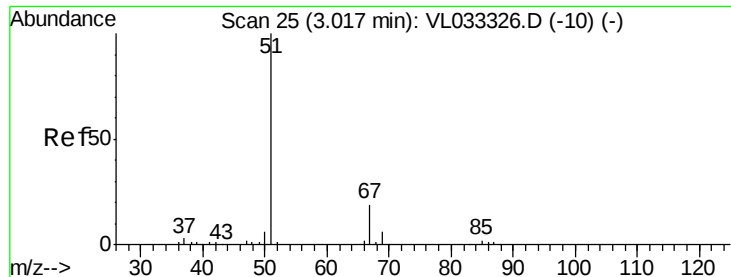
87 25.4 26.9 40.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.100 ppbv

RT: 2.99 min Scan# 15

Delta R.T. -0.03 min

Lab File: VL033372.D

Acq: 18 Mar 2019 23:59

Instrument :

MSVOA_L

ClientSampleId :

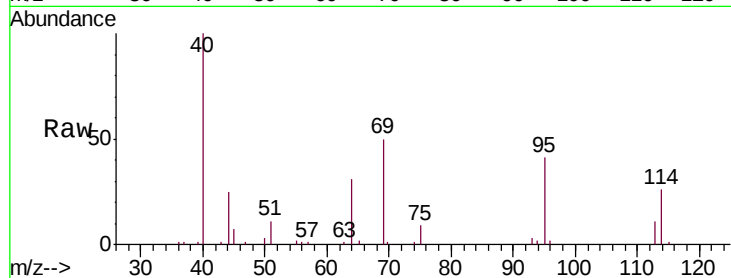
L1HA-IA1DL

Tgt Ion: 51 Resp: 8606

Ion Ratio Lower Upper

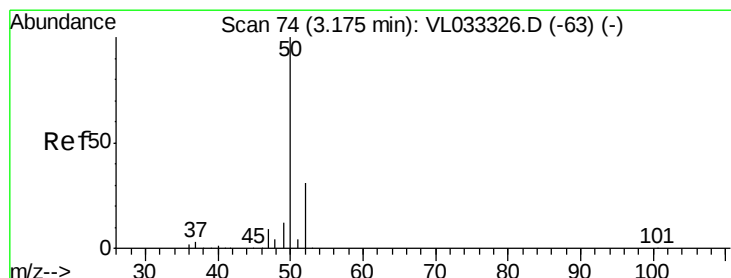
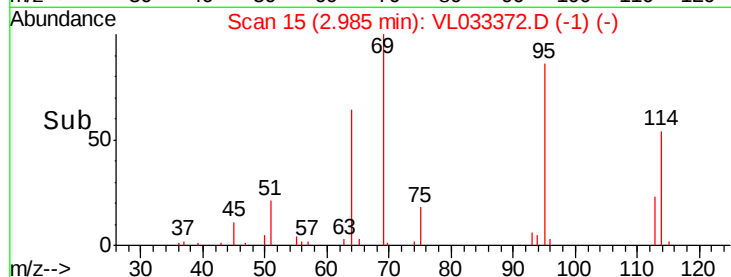
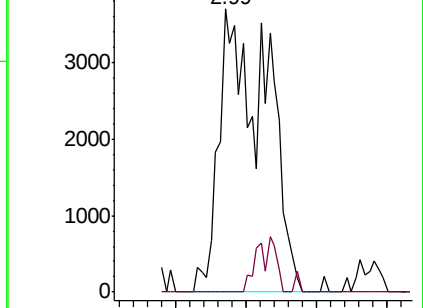
51 100

67 8.6 14.9 22.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.060 ppbv

RT: 3.18 min Scan# 75

Delta R.T. 0.00 min

Lab File: VL033372.D

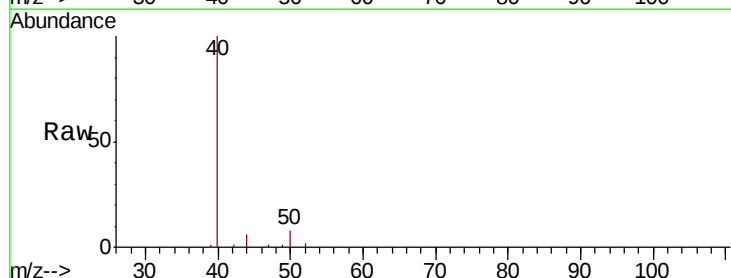
Acq: 18 Mar 2019 23:59

Tgt Ion: 50 Resp: 2789

Ion Ratio Lower Upper

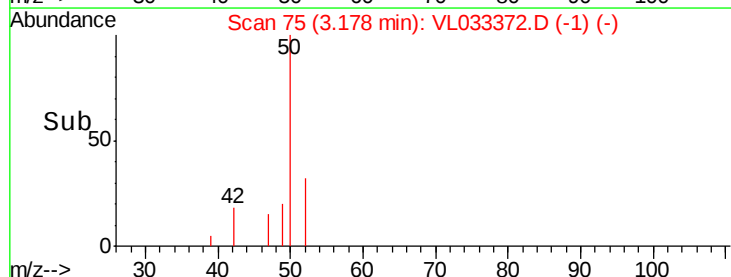
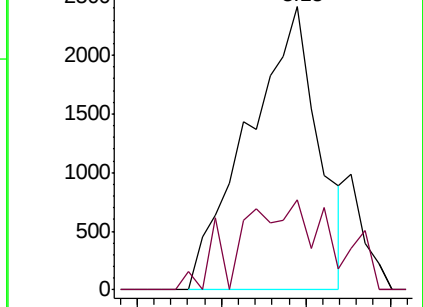
50 100

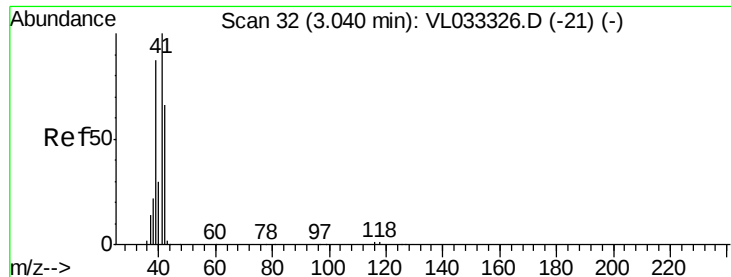
52 25.5 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.169 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL033372.D

Acq: 18 Mar 2019 23:59

Instrument :

MSVOA_L

ClientSampleId :

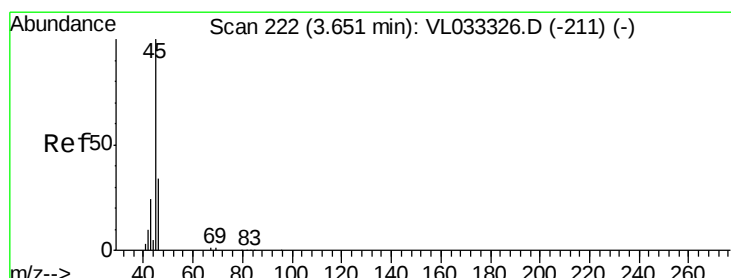
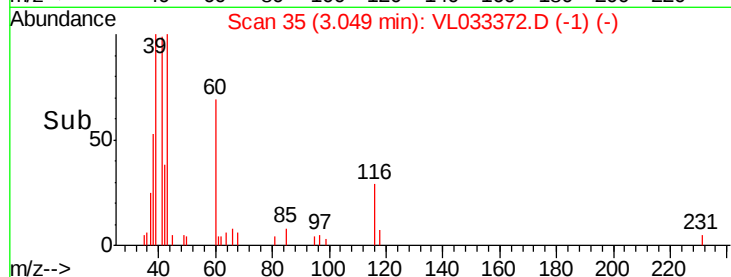
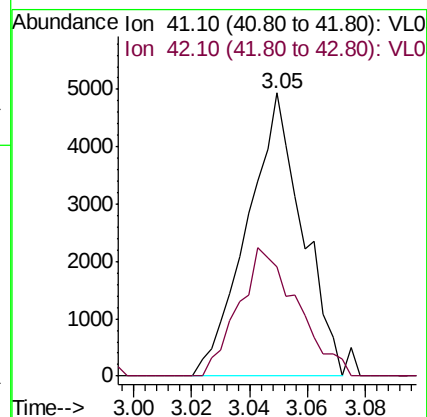
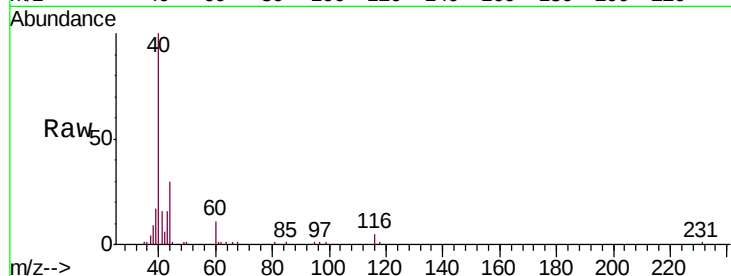
L1HA-IA1DL

Tgt Ion: 41 Resp: 6533

Ion Ratio Lower Upper

41 100

42 48.1 55.2 82.8#



#13

Ethanol

Concen: 60.819 ppbv

RT: 3.65 min Scan# 221

Delta R.T. -0.00 min

Lab File: VL033372.D

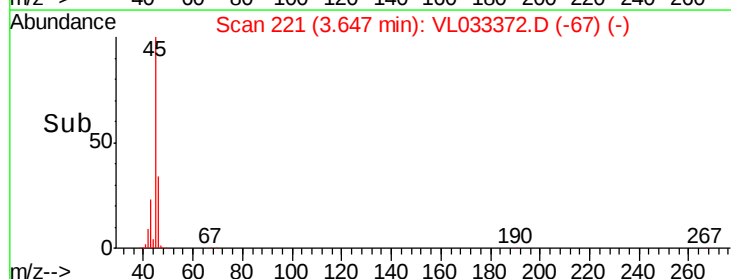
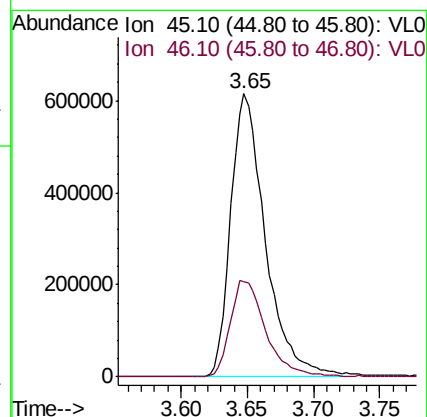
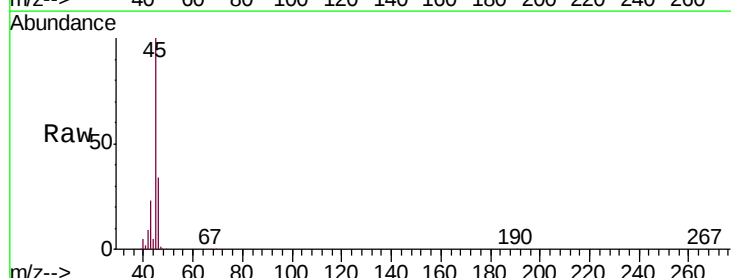
Acq: 18 Mar 2019 23:59

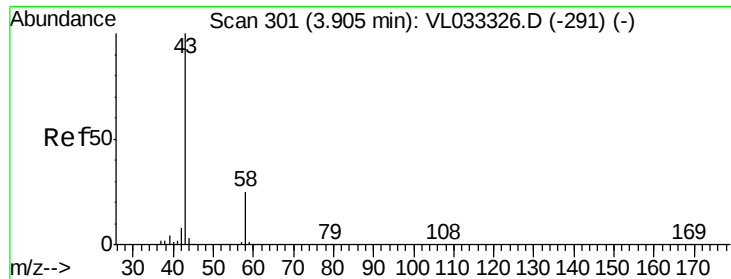
Tgt Ion: 45 Resp: 1118952

Ion Ratio Lower Upper

45 100

46 35.4 14.9 59.7





#15

Acetone

Concen: 0.759 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033372.D

Acq: 18 Mar 2019 23:59

Instrument :

MSVOA_L

ClientSampleId :

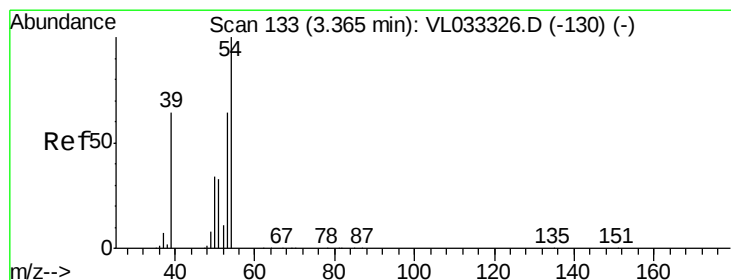
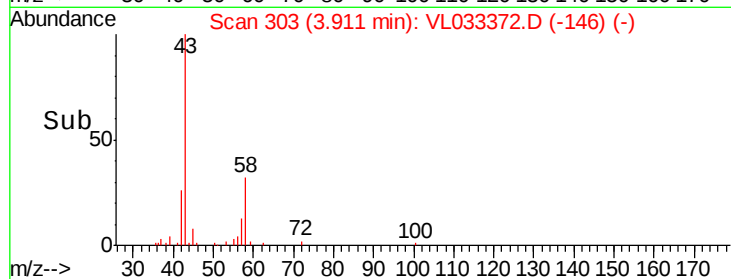
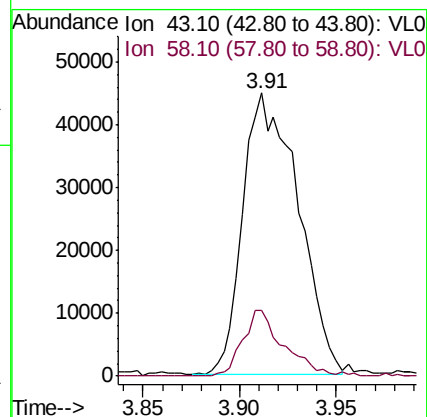
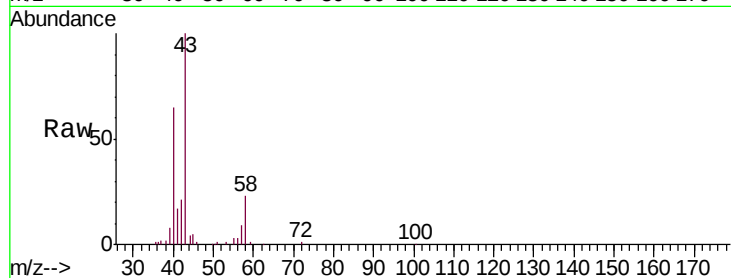
L1HA-IA1DL

Tgt Ion: 43 Resp: 88836

Ion Ratio Lower Upper

43 100

58 17.7 20.4 30.6#



#16

1,3-Butadiene

Concen: 0.037 ppbv

RT: 3.34 min Scan# 126

Delta R.T. -0.02 min

Lab File: VL033372.D

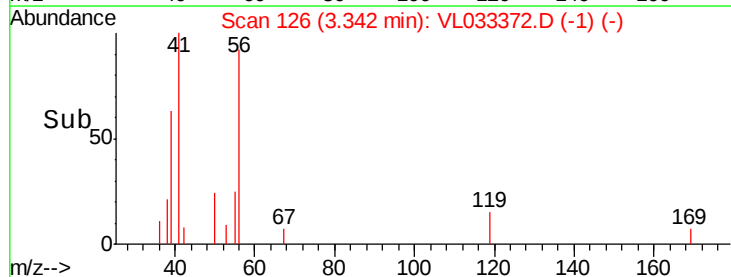
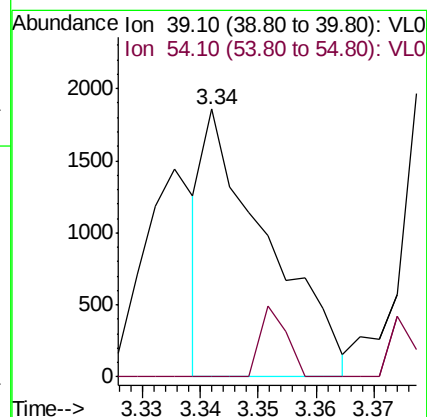
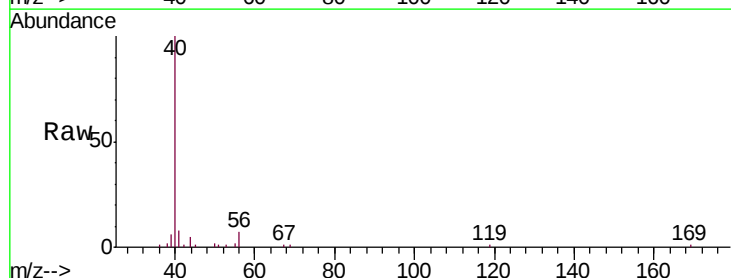
Acq: 18 Mar 2019 23:59

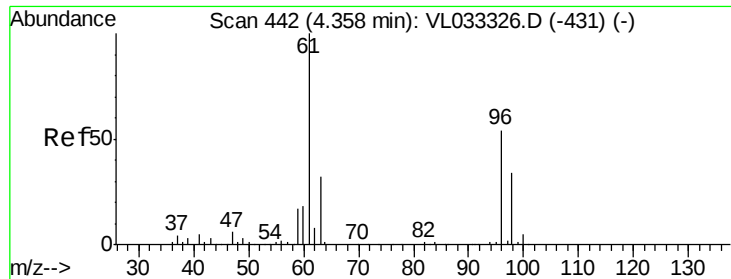
Tgt Ion: 39 Resp: 1404

Ion Ratio Lower Upper

39 100

54 11.1 76.8 115.2#



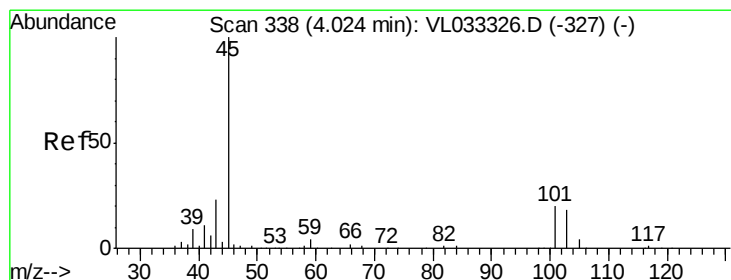
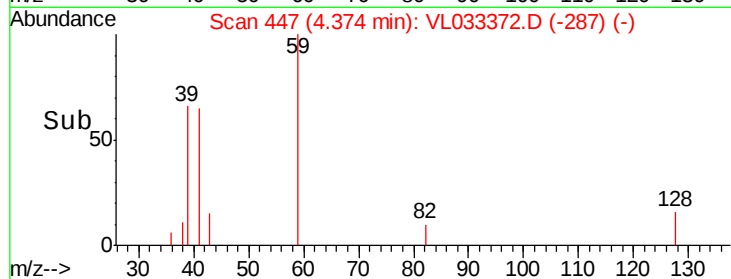
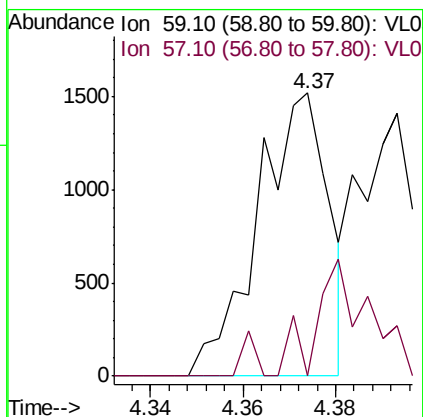
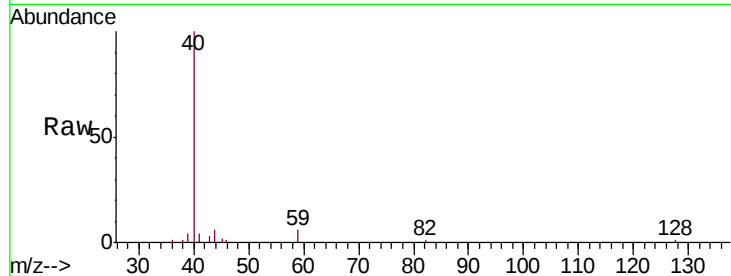


#17

tert-Butyl alcohol
 Concen: 0.097 ppbv
 RT: 4.37 min Scan# 447
 Delta R.T. 0.02 min
 Lab File: VL033372.D
 Acq: 18 Mar 2019 23:59

Instrument :
 MSVOA_L
 ClientSampleId :
 L1HA-IA1DL

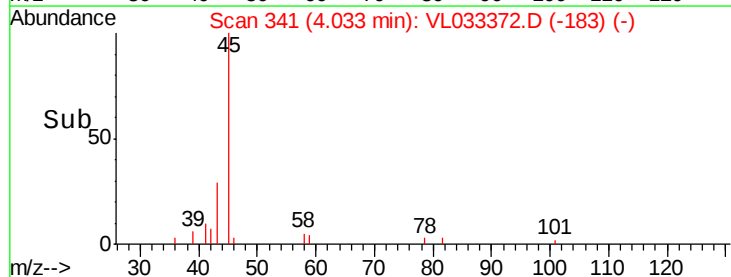
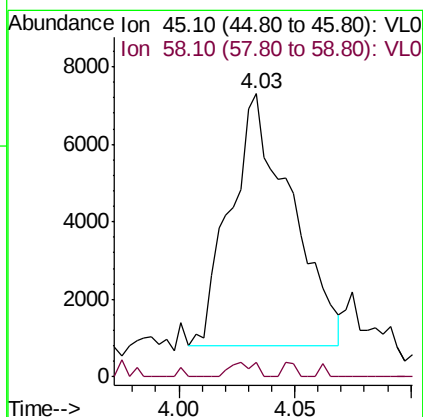
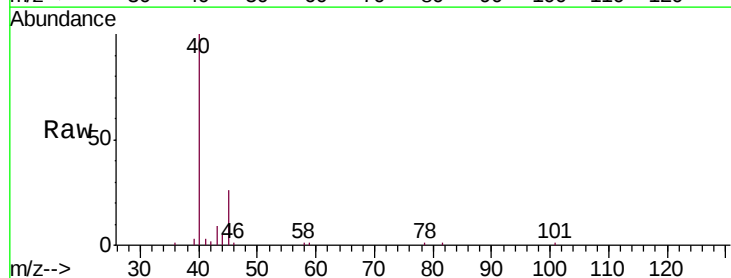
Tgt Ion: 59 Resp: 1604
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.7 11.5#

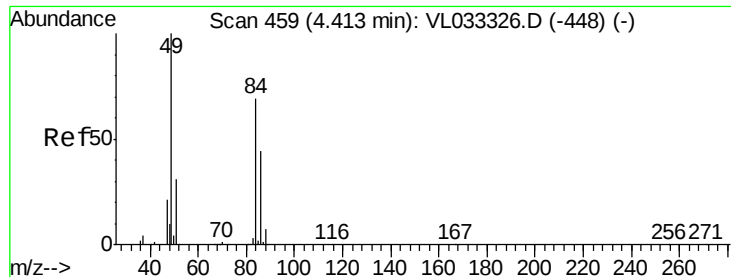


#19

Isopropyl Alcohol
 Concen: 0.212 ppbv
 RT: 4.03 min Scan# 341
 Delta R.T. 0.01 min
 Lab File: VL033372.D
 Acq: 18 Mar 2019 23:59

Tgt Ion: 45 Resp: 11826
 Ion Ratio Lower Upper
 45 100
 58 132.0 1.5 2.3#

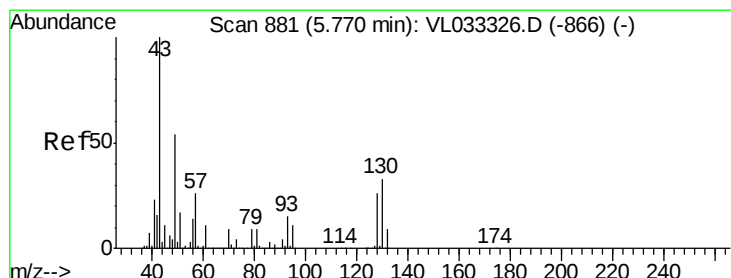
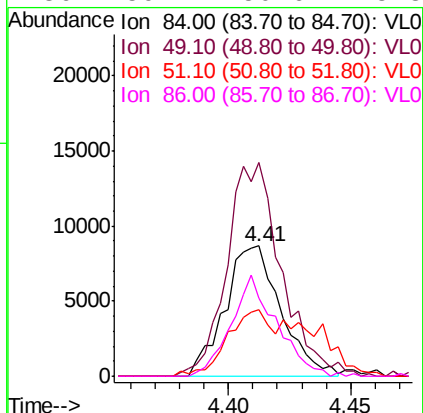
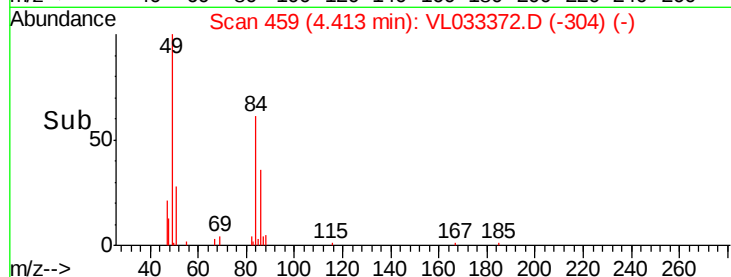
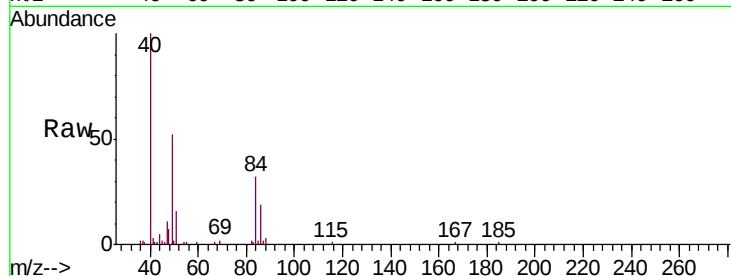




#20
Methylene Chloride
Concen: 0.362 ppbv
RT: 4.41 min Scan# 459
Delta R.T. -0.00 min
Lab File: VL033372.D
Acq: 18 Mar 2019 23:59

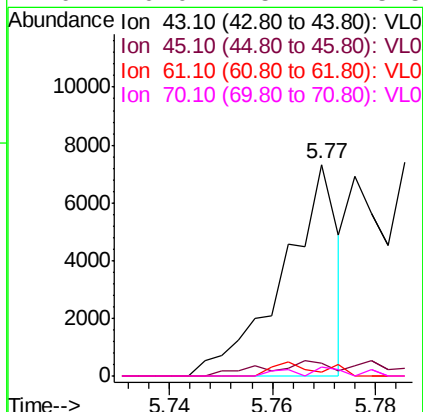
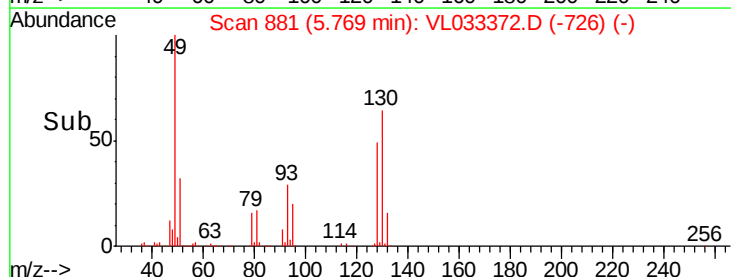
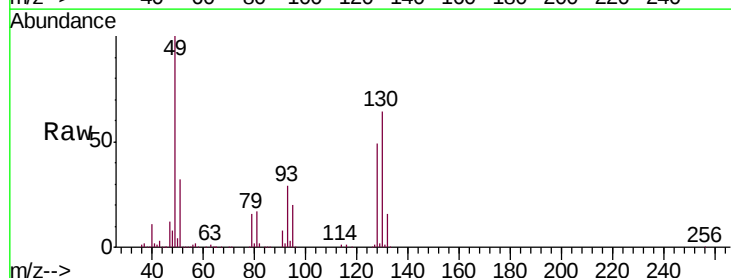
Instrument :
MSVOA_L
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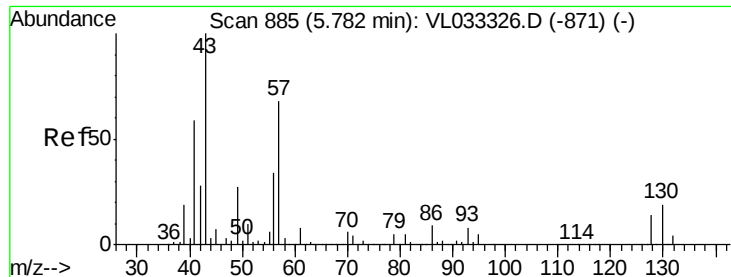
Tgt Ion:	84	Resp:	13839
Ion	Ratio	Lower	Upper
84	100		
49	158.2	115.4	173.0
51	49.1	35.8	53.6
86	59.4	50.6	75.8



#25
Ethyl Acetate
Concen: 0.032 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.00 min
Lab File: VL033372.D
Acq: 18 Mar 2019 23:59

Tgt Ion:	43	Resp:	5375
Ion	Ratio	Lower	Upper
43	100		
45	17.0	7.9	11.9#
61	5.5	7.4	11.2#
70	0.0	5.7	8.5#

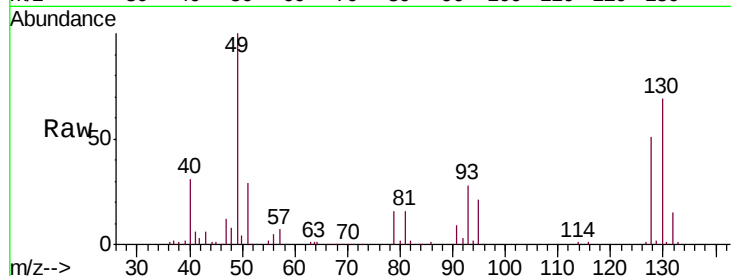




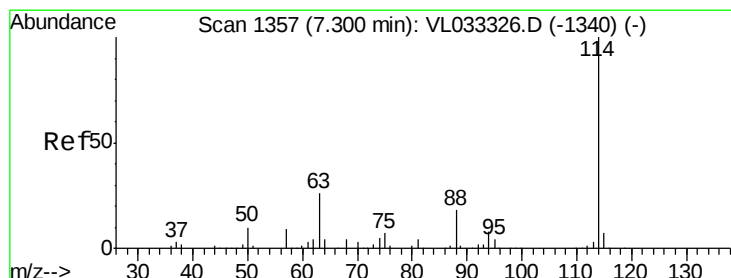
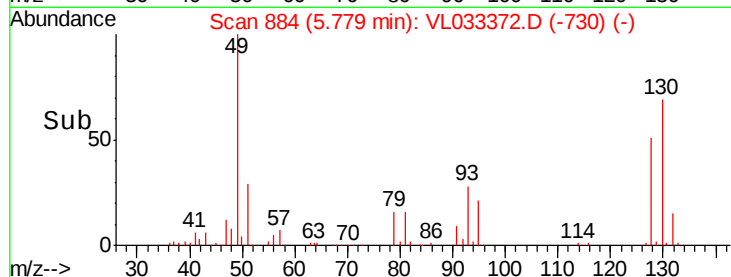
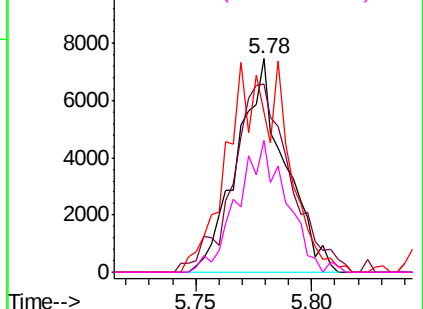
#26
Hexane
Concen: 0.142 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033372.D
Acq: 18 Mar 2019 23:59

Instrument :
MSVOA_L
ClientSampleId :
L1HA-IA1DL

Tgt Ion: 57 Resp: 10773
Ion Ratio Lower Upper
57 100
41 106.1 70.5 105.7#
43 120.7 181.8 272.8#
56 63.2 42.2 63.2

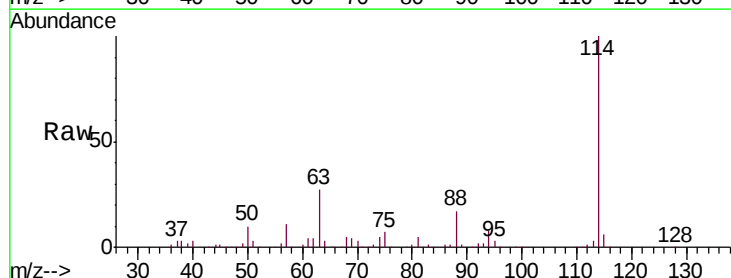


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

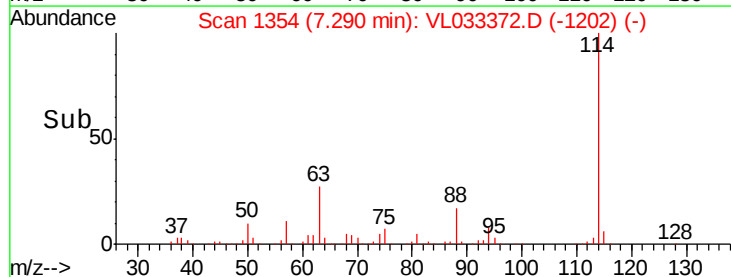
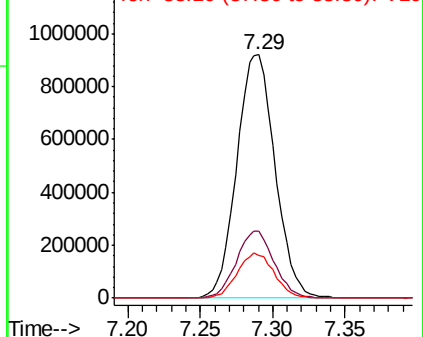


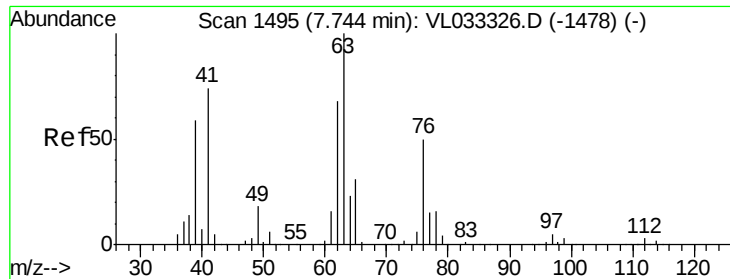
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.01 min
Lab File: VL033372.D
Acq: 18 Mar 2019 23:59

Tgt Ion: 114 Resp: 1690609
Ion Ratio Lower Upper
114 100
63 27.1 21.4 32.2
88 18.0 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

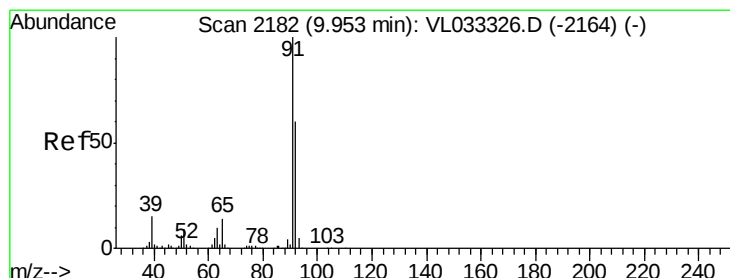
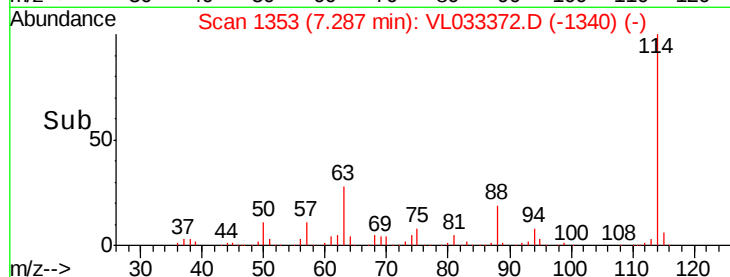
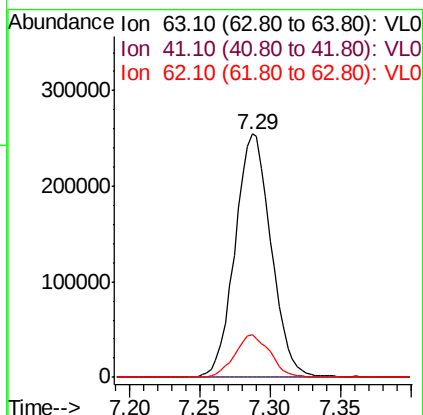
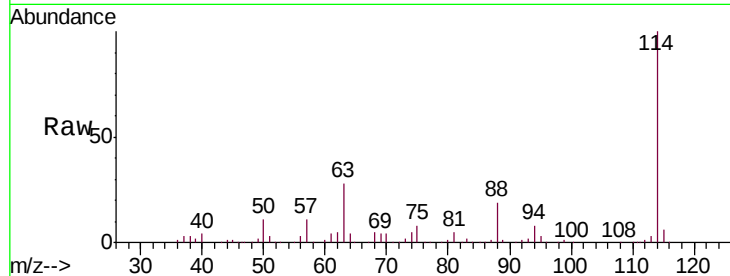




#39
 1,2-Dichloropropane
 Concen: 8.063 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.46 min
 Lab File: VL033372.D
 Acq: 18 Mar 2019 23:59

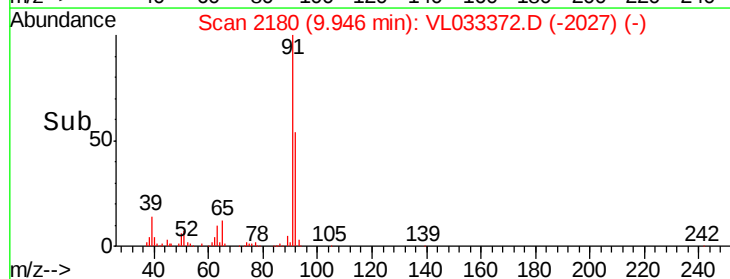
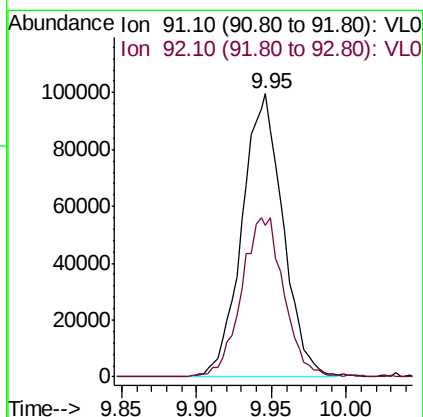
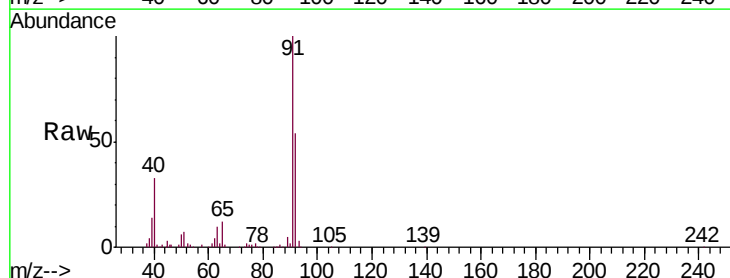
Instrument :
 MSVOA_L
 ClientSampleId :
 L1HA-IA1DL

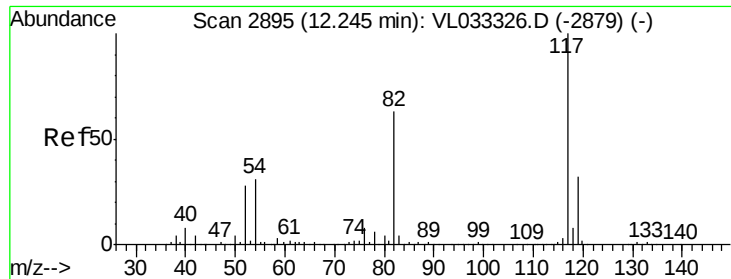
Tgt Ion: 63 Resp: 456846
 Ion Ratio Lower Upper
 63 100
 41 0.0 59.5 89.3#
 62 17.6 54.7 82.1#



#53
 Toluene
 Concen: 1.104 ppbv
 RT: 9.95 min Scan# 2180
 Delta R.T. -0.01 min
 Lab File: VL033372.D
 Acq: 18 Mar 2019 23:59

Tgt Ion: 91 Resp: 189839
 Ion Ratio Lower Upper
 91 100
 92 58.4 47.4 71.0

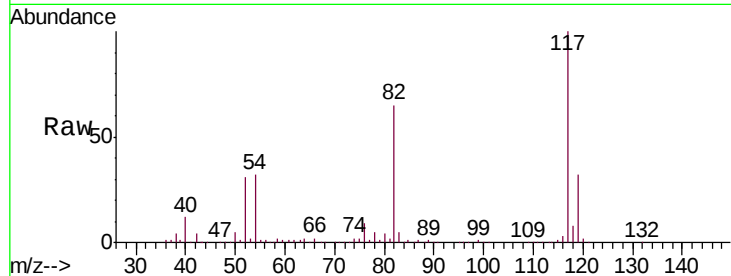




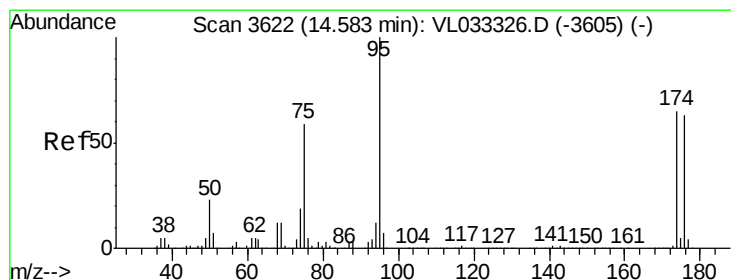
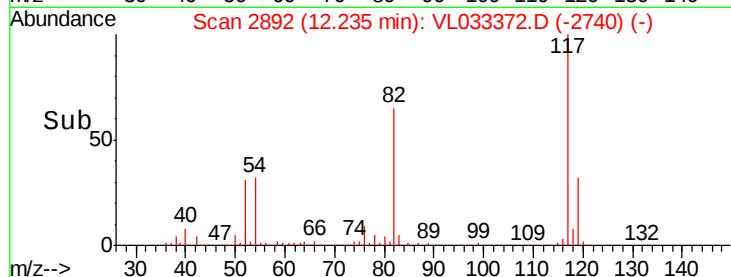
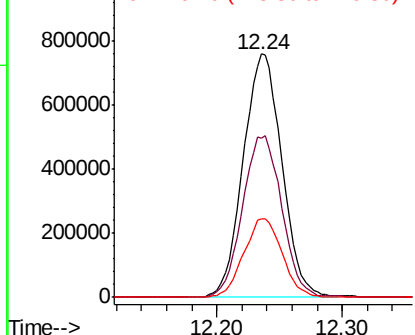
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033372.D
Acq: 18 Mar 2019 23:59

Instrument :
MSVOA_L
ClientSampleId :
L1HA-IA1DL

Tgt Ion:117 Resp: 1631340
Ion Ratio Lower Upper
117 100
82 67.9 53.4 80.2
119 32.3 27.3 40.9

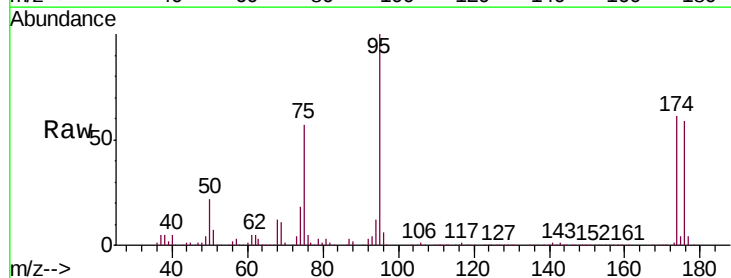


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.462 ppbv
RT: 14.57 min Scan# 3618
Delta R.T. -0.01 min
Lab File: VL033372.D
Acq: 18 Mar 2019 23:59

Tgt Ion: 95 Resp: 1264673
Ion Ratio Lower Upper
95 100
174 64.8 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

