

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033344.D
 Acq On : 15 Mar 2019 23:42
 Operator : SY/AP
 Sample : K1827-06DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 16 03:59:19 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	762687	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1729501	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	1899050	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1449780	10.30	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.00%

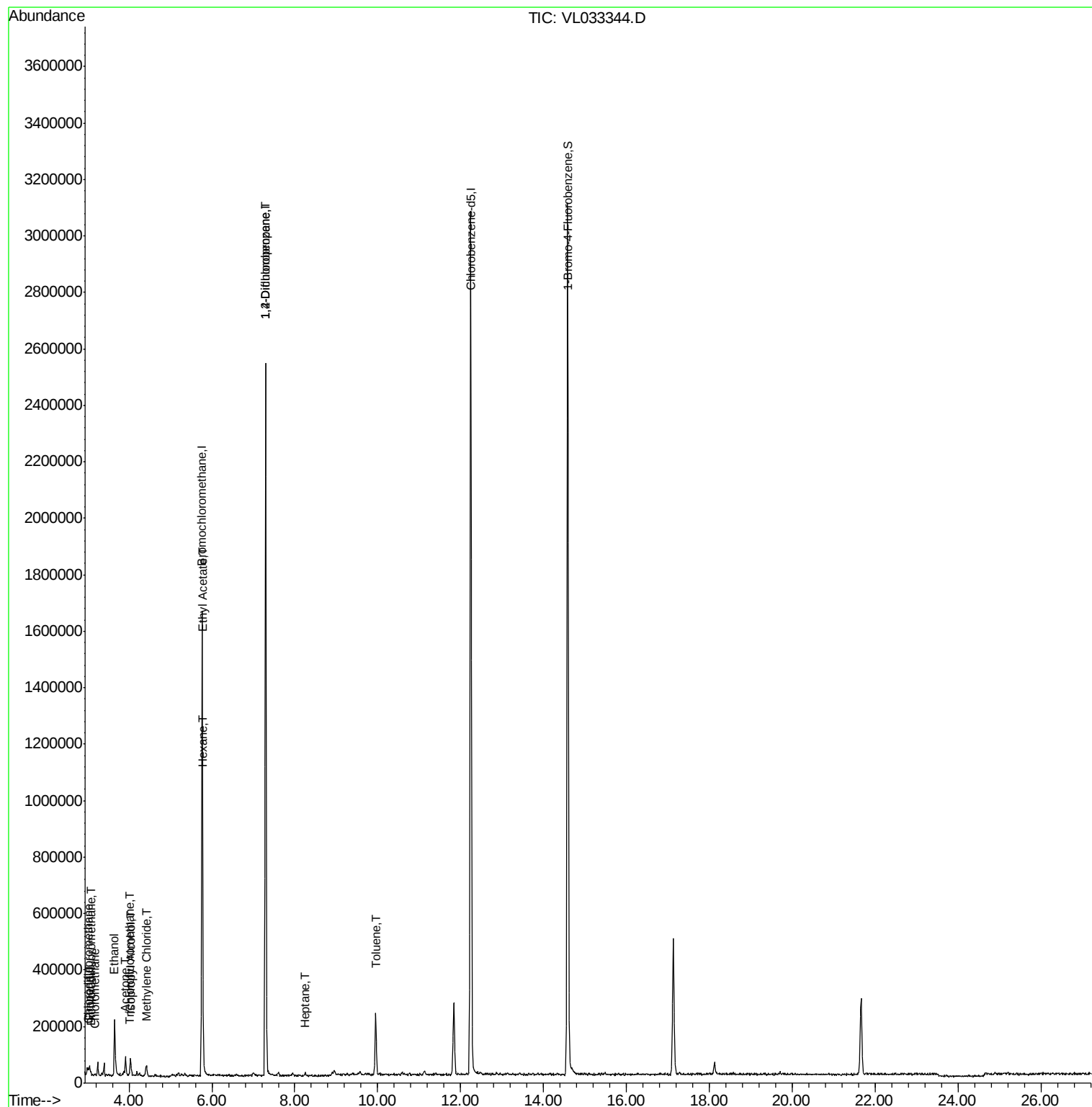
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	7156	0.053	ppbv	98
3) Chlorodifluoromethane	3.02	51	36002	0.411	ppbv #	84
4) Chloromethane	3.18	50	2751	0.058	ppbv	98
9) Propene	3.05	41	4361	0.112	ppbv	92
10) Heptane	8.26	43	3119	0.032	ppbv #	81
11) Trichlorofluoromethane	4.01	101	3600	0.027	ppbv	98
13) Ethanol	3.65	45	220395	11.831	ppbv	96
15) Acetone	3.91	43	63814	0.538	ppbv	95
19) Isopropyl Alcohol	4.04	45	63931	1.134	ppbv #	93
20) Methylene Chloride	4.41	84	3960	0.102	ppbv	95
25) Ethyl Acetate	5.78	43	19757	0.115	ppbv #	96
26) Hexane	5.79	57	9982	0.130	ppbv #	85
39) 1,2-Dichloropropane	7.29	63	462277	7.975	ppbv #	25
53) Toluene	9.95	91	152981	0.870	ppbv	98

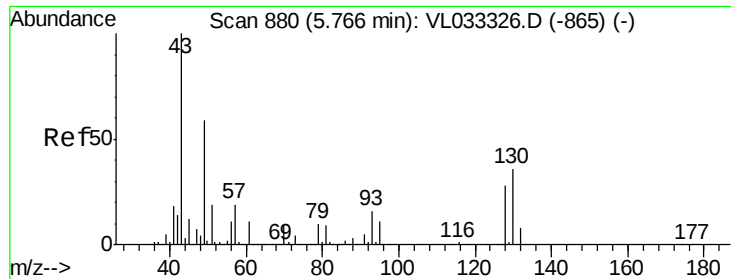
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
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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# 879

Delta R.T. -0.00 min

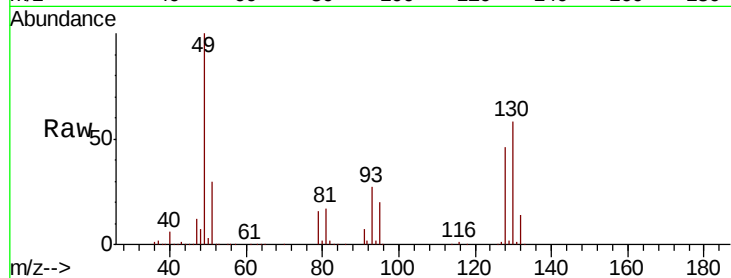
Lab File: VL033344.D

Acq: 15 Mar 2019 23:42

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 49 Resp: 762687

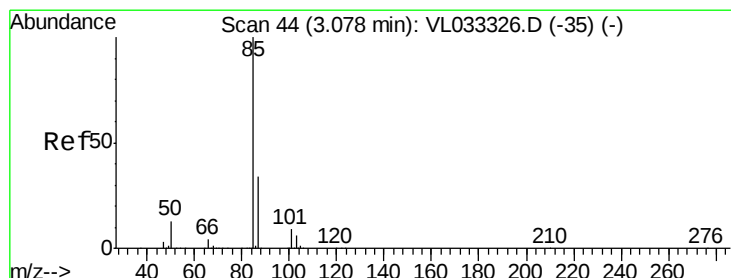
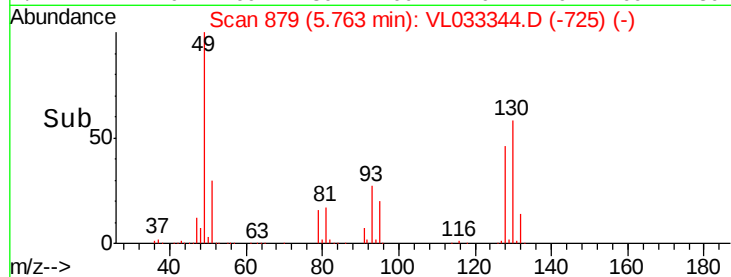
Ion	Ratio	Lower	Upper
49	100		
128	46.7	23.5	70.6
130	60.6	30.1	90.3



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: 0.053 ppbv

RT: 3.08 min Scan# 45

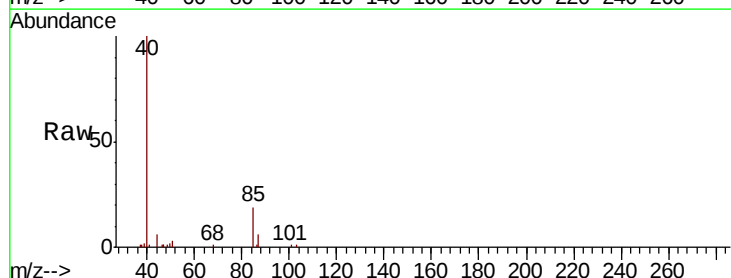
Delta R.T. 0.00 min

Lab File: VL033344.D

Acq: 15 Mar 2019 23:42

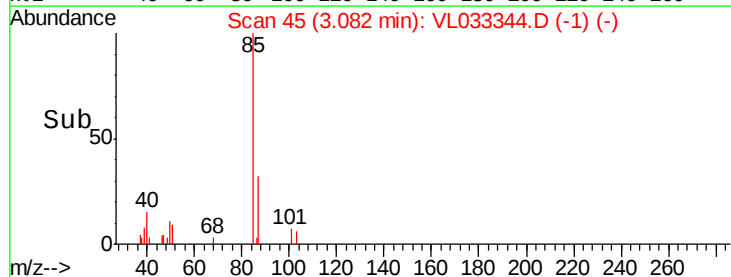
Tgt Ion: 85 Resp: 7156

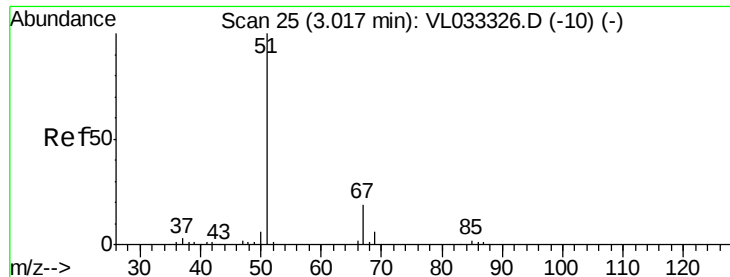
Ion	Ratio	Lower	Upper
85	100		
87	32.3	26.9	40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.411 ppbv

RT: 3.02 min Scan# 26

Delta R.T. 0.00 min

Lab File: VL033344.D

Acq: 15 Mar 2019 23:42

Instrument :

MSVOA_L

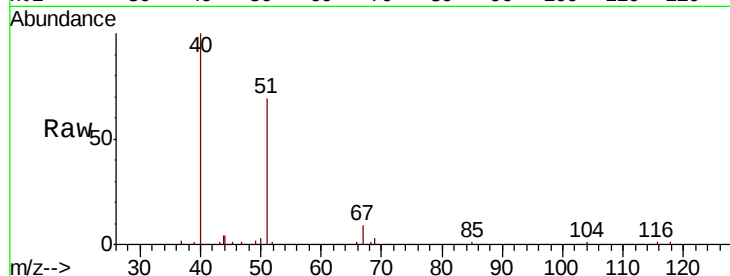
ClientSampleId :

Tot Ion: 51 Resp: 36002

Ion Ratio Lower Upper

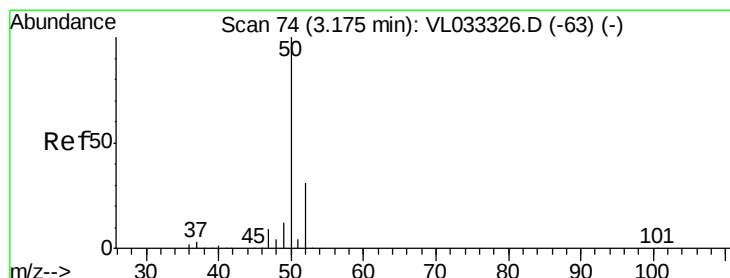
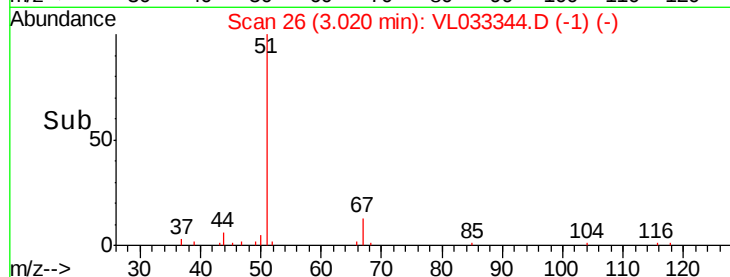
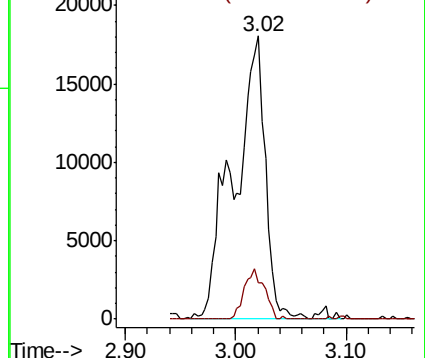
51 100

67 11.2 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: 0.058 ppbv

RT: 3.18 min Scan# 75

Delta R.T. 0.00 min

Lab File: VL033344.D

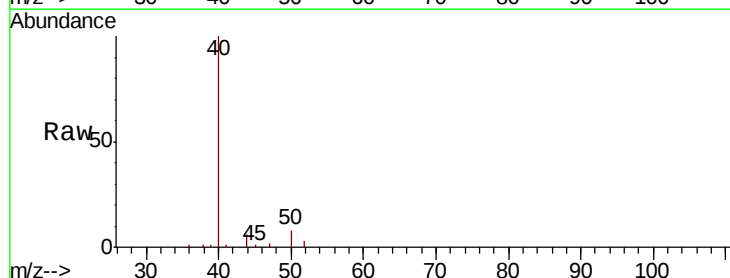
Acq: 15 Mar 2019 23:42

Tgt Ion: 50 Resp: 2751

Ion Ratio Lower Upper

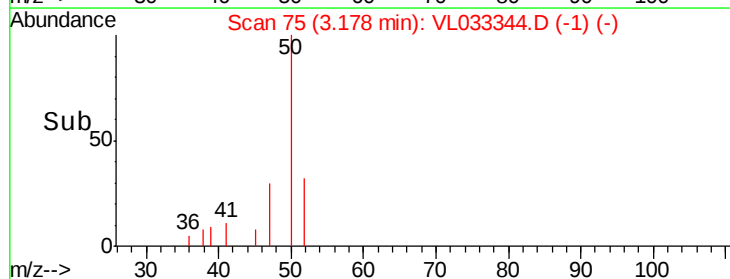
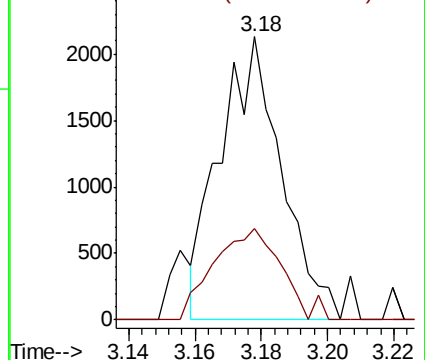
50 100

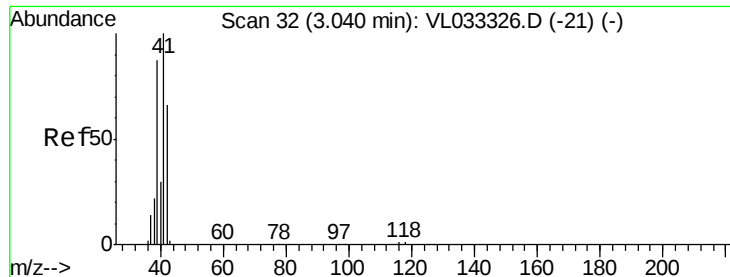
52 32.4 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.112 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.01 min

Lab File: VL033344.D

Acq: 15 Mar 2019 23:42

Instrument :

MSVOA_L

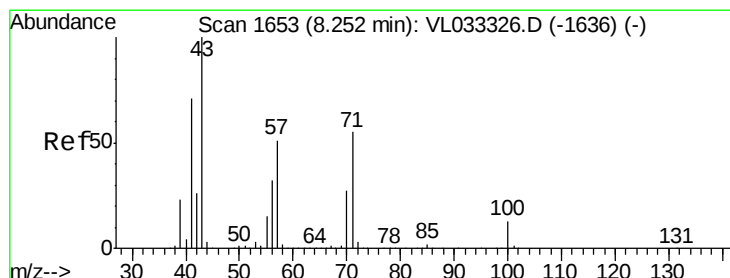
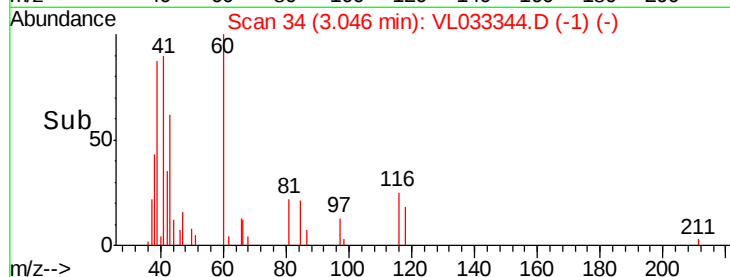
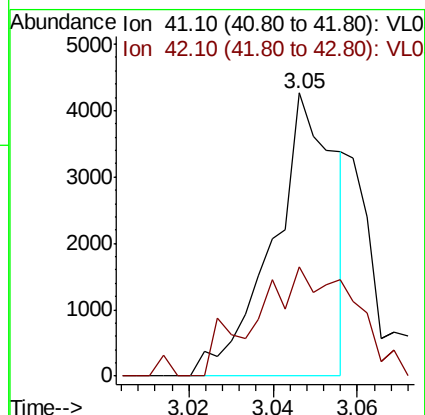
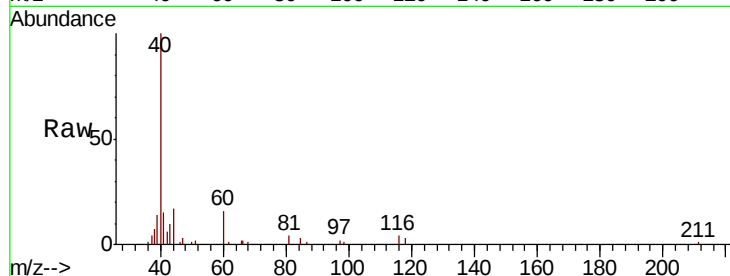
ClientSampleId :

Tot Ion: 41 Resp: 4361

Ion Ratio Lower Upper

41 100

42 62.5 55.2 82.8



#10

Heptane

Concen: 0.032 ppbv

RT: 8.26 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VL033344.D

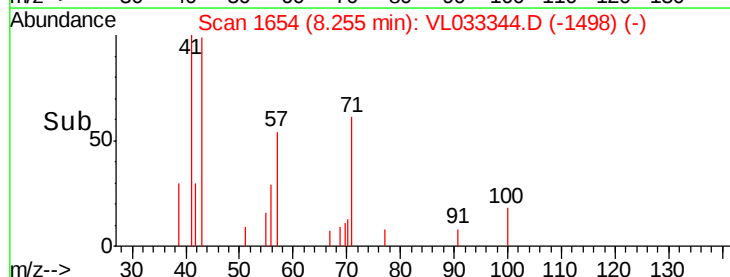
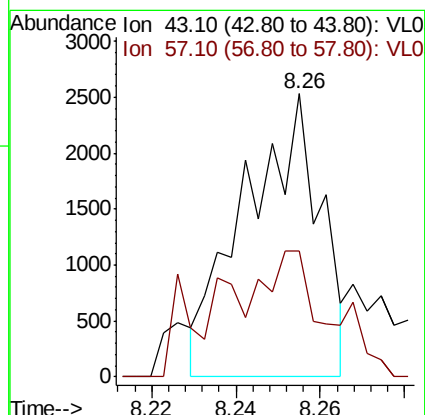
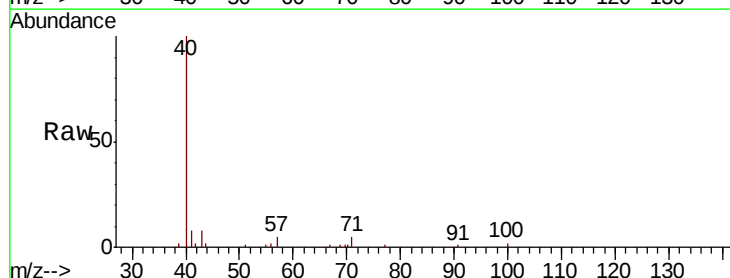
Acq: 15 Mar 2019 23:42

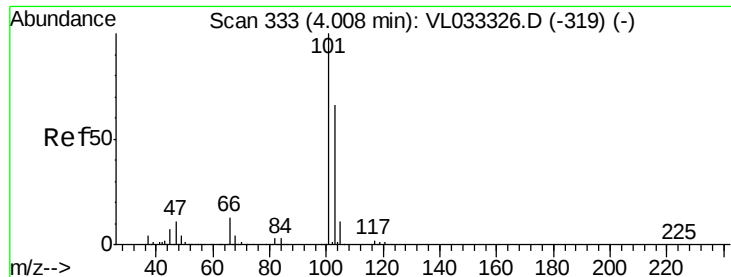
Tgt Ion: 43 Resp: 3119

Ion Ratio Lower Upper

43 100

57 63.7 40.4 60.6#

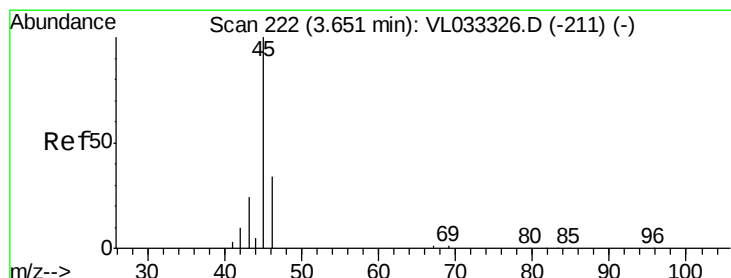
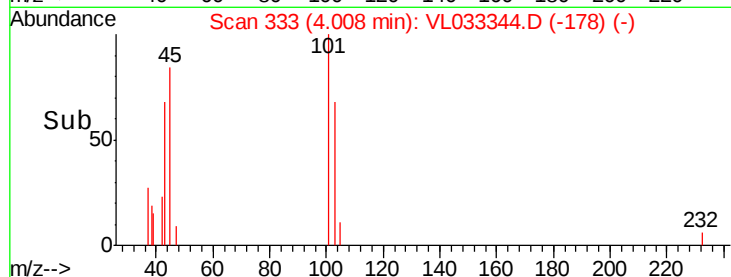
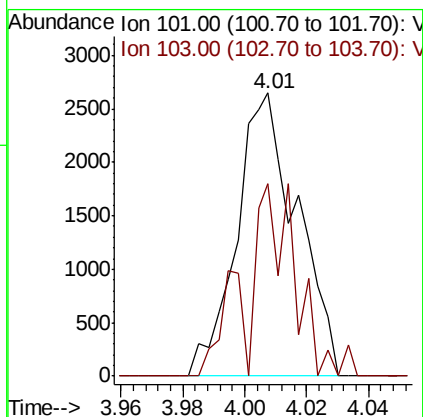
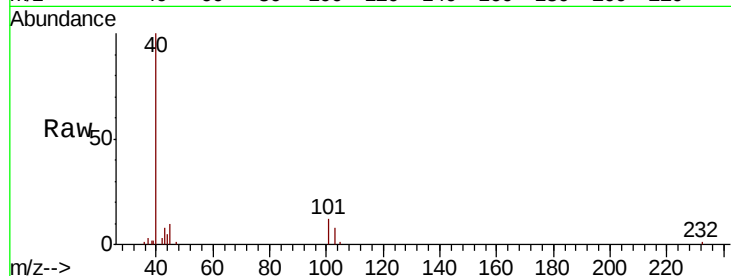




#11
 Trichlorofluoromethane
 Concen: 0.027 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. -0.00 min
 Lab File: VL033344.D
 Acq: 15 Mar 2019 23:42

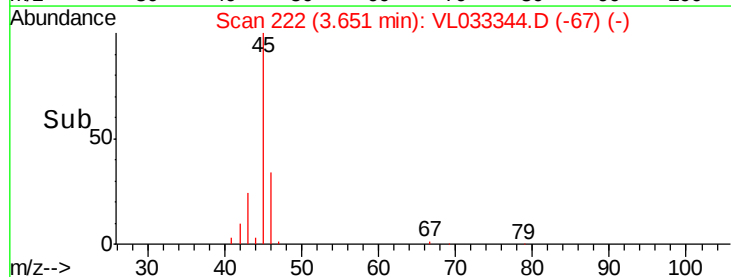
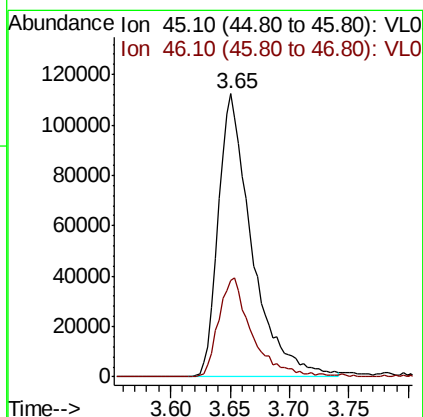
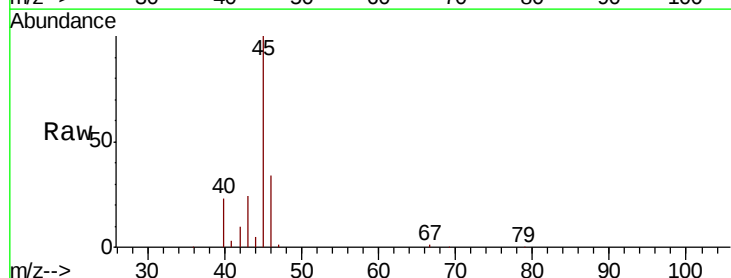
Instrument :
 MSVOA_L
 ClientSampleId :

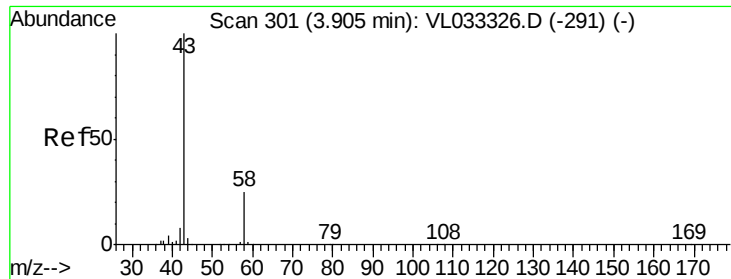
Tot Ion:101 Resp: 3600
 Ion Ratio Lower Upper
 101 100
 103 68.0 52.9 79.3



#13
 Ethanol
 Concen: 11.831 ppbv
 RT: 3.65 min Scan# 222
 Delta R.T. -0.00 min
 Lab File: VL033344.D
 Acq: 15 Mar 2019 23:42

Tgt Ion: 45 Resp: 220395
 Ion Ratio Lower Upper
 45 100
 46 35.2 14.9 59.7





#15

Acetone

Concen: 0.538 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033344.D

Acq: 15 Mar 2019 23:42

Instrument :

MSVOA_L

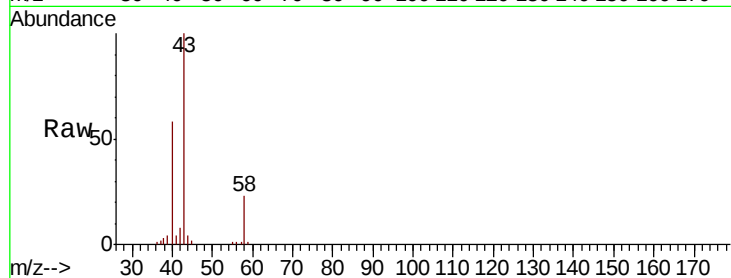
ClientSampleId :

Tot Ion: 43 Resp: 63814

Ion Ratio Lower Upper

43 100

58 28.3 20.4 30.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.91

50000

40000

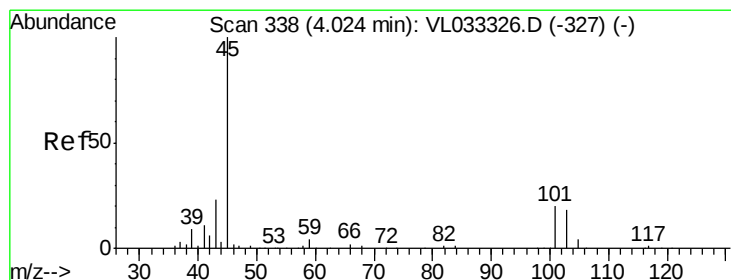
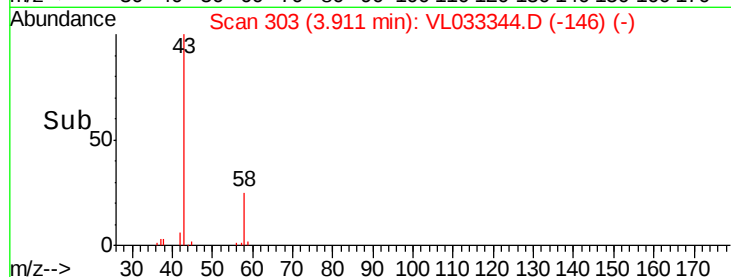
30000

20000

10000

0

Time--> 3.85 3.90 3.95



#19

Isopropyl Alcohol

Concen: 1.134 ppbv

RT: 4.04 min Scan# 342

Delta R.T. 0.01 min

Lab File: VL033344.D

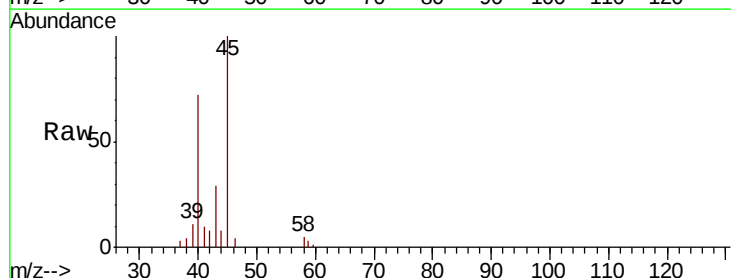
Acq: 15 Mar 2019 23:42

Tgt Ion: 45 Resp: 63931

Ion Ratio Lower Upper

45 100

58 4.5 1.5 2.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.04

40000

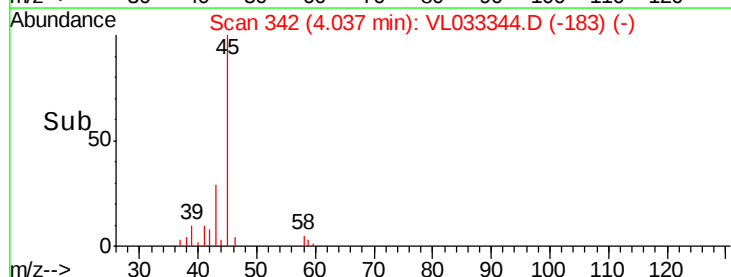
30000

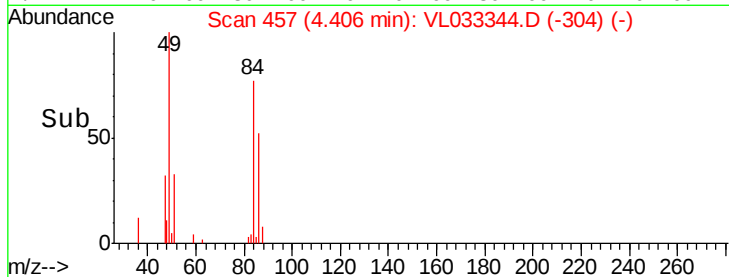
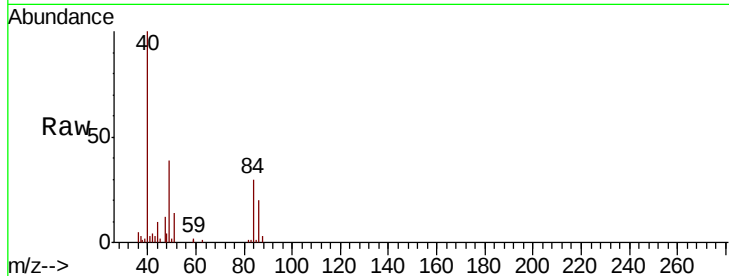
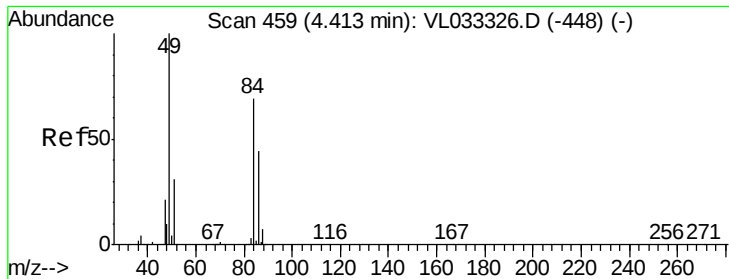
20000

10000

0

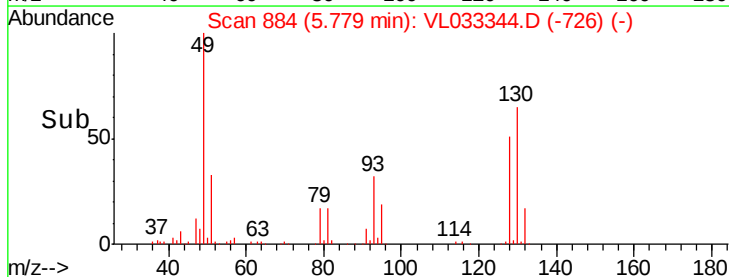
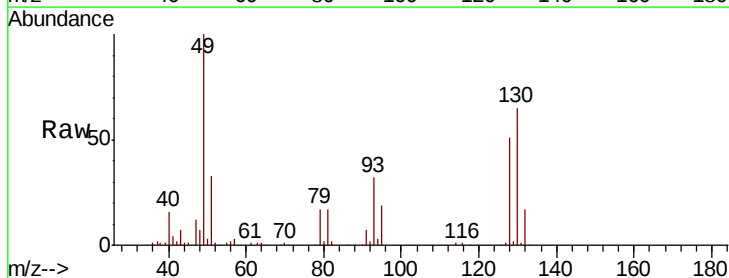
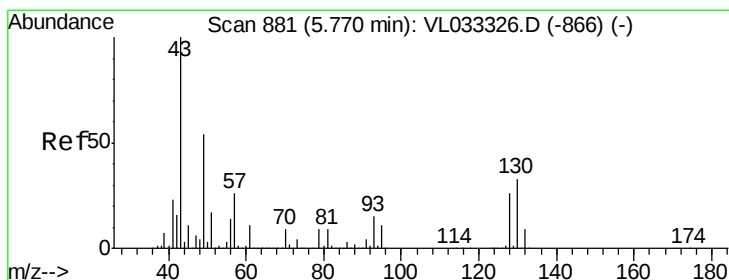
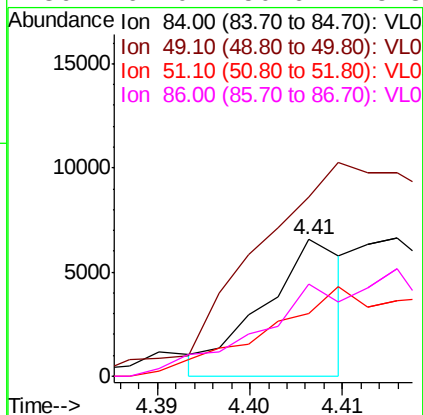
Time--> 4.00 4.05





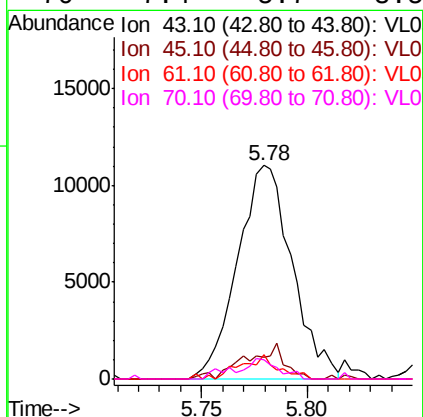
#20
Methylene Chloride
Concen: 0.102 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.01 min
Lab File: VL033344.D
Acq: 15 Mar 2019 23:42

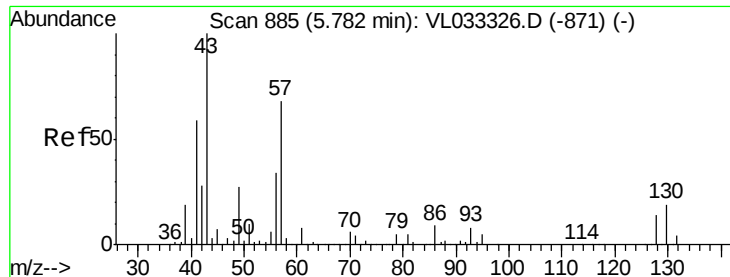
Tot Ion:	84	Resp:	3960
Ion	Ratio	Lower	Upper
84	100		
49	137.0	115.4	173.0
51	40.0	35.8	53.6
86	61.0	50.6	75.8



#25
Ethyl Acetate
Concen: 0.115 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.01 min
Lab File: VL033344.D
Acq: 15 Mar 2019 23:42

Tgt Ion:	43	Resp:	19757
Ion	Ratio	Lower	Upper
43	100		
45	12.3	7.9	11.9#
61	7.7	7.4	11.2
70	7.4	5.7	8.5

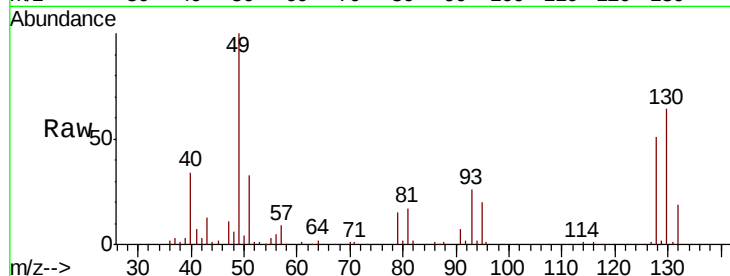




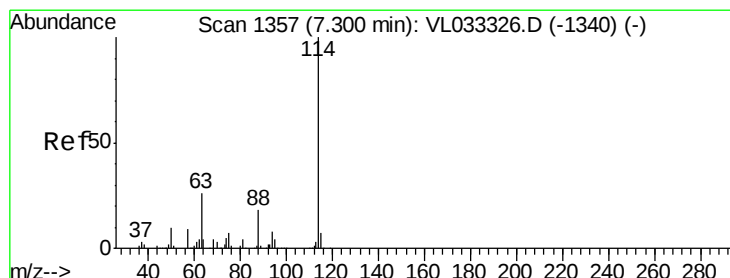
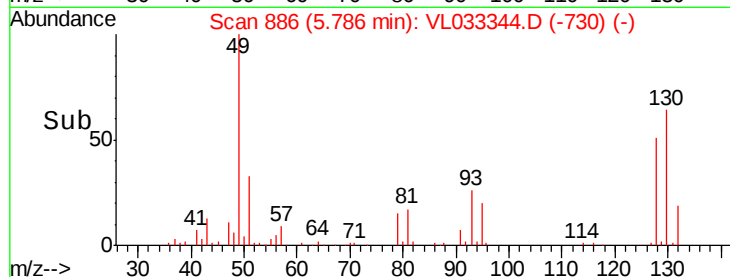
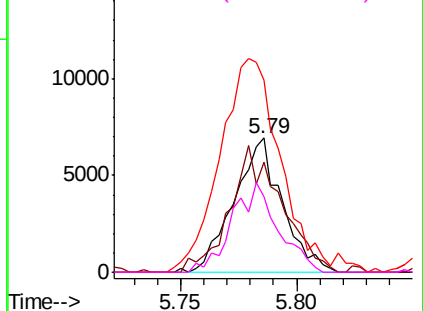
#26
Hexane
Concen: 0.130 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.00 min
Lab File: VL033344.D
Acq: 15 Mar 2019 23:42

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 9982
Ion Ratio Lower Upper
57 100
41 102.8 70.5 105.7
43 202.5 181.8 272.8
56 64.0 42.2 63.2#

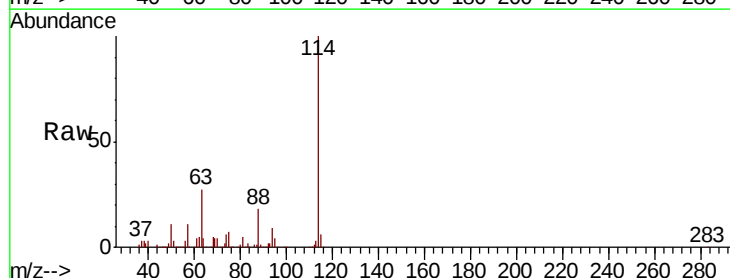


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

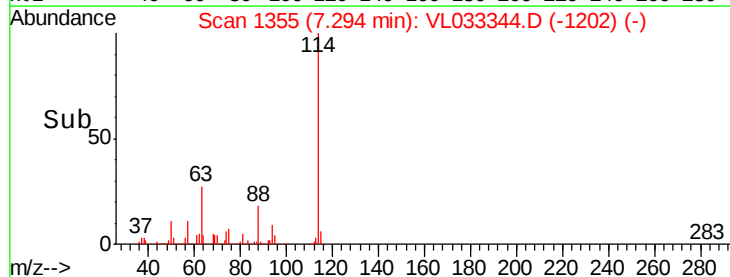
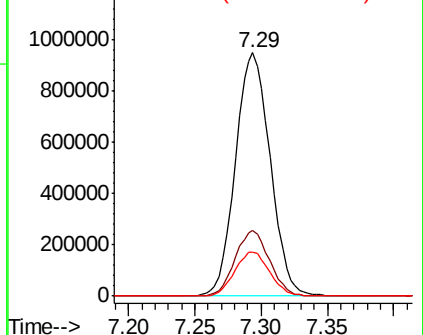


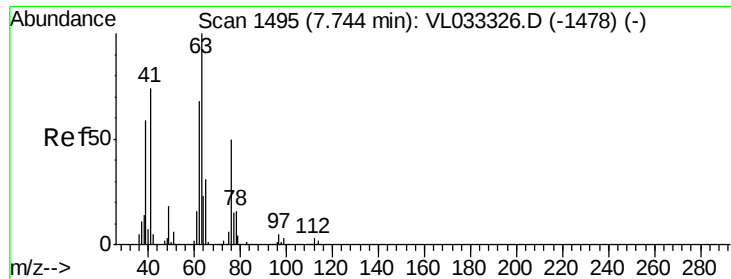
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1355
Delta R.T. -0.01 min
Lab File: VL033344.D
Acq: 15 Mar 2019 23:42

Tgt Ion: 114 Resp: 1729501
Ion Ratio Lower Upper
114 100
63 26.9 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

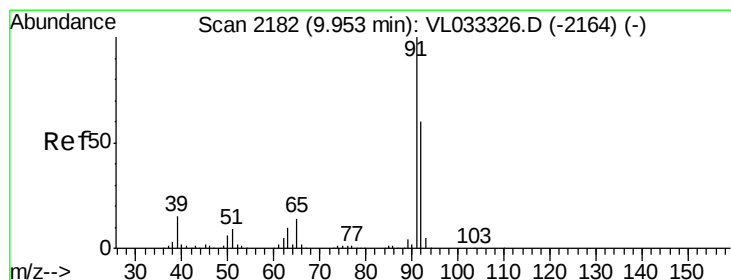
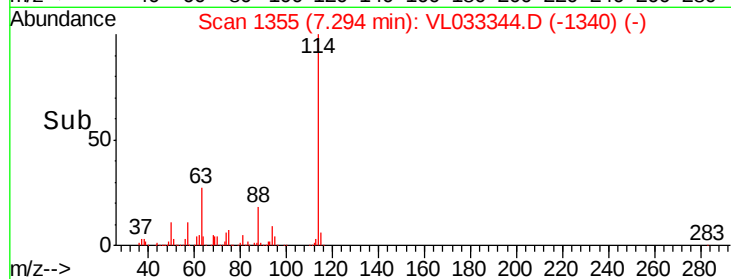
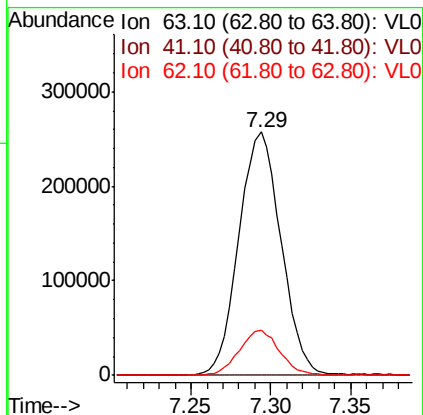
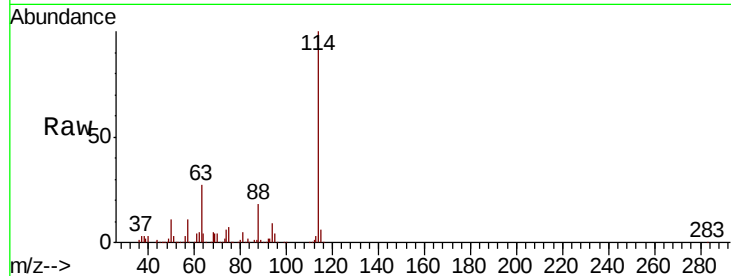




#39
 1,2-Dichloropropane
 Concen: 7.975 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.45 min
 Lab File: VL033344.D
 Acq: 15 Mar 2019 23:42

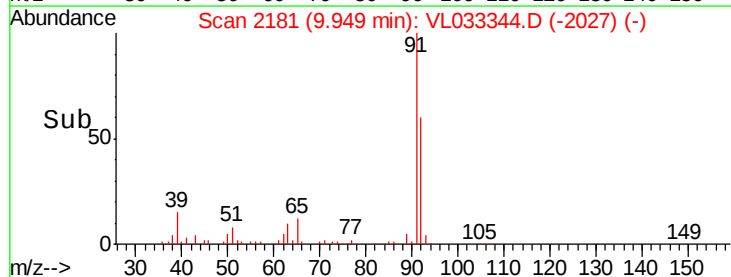
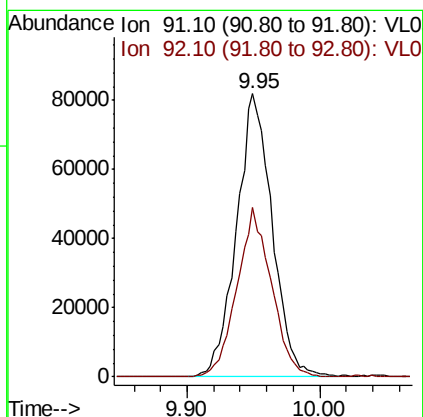
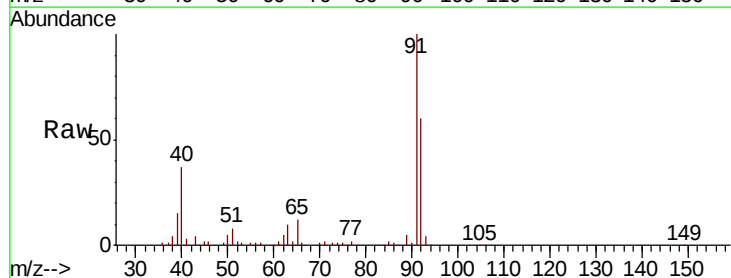
Instrument :
 MSVOA_L
 ClientSampleId :

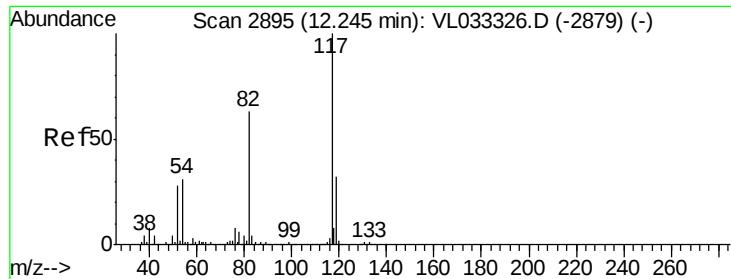
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	59.5	89.3#
62	18.8	54.7	82.1#



#53
 Toluene
 Concen: 0.870 ppbv
 RT: 9.95 min Scan# 2181
 Delta R.T. -0.00 min
 Lab File: VL033344.D
 Acq: 15 Mar 2019 23:42

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.9	47.4	71.0

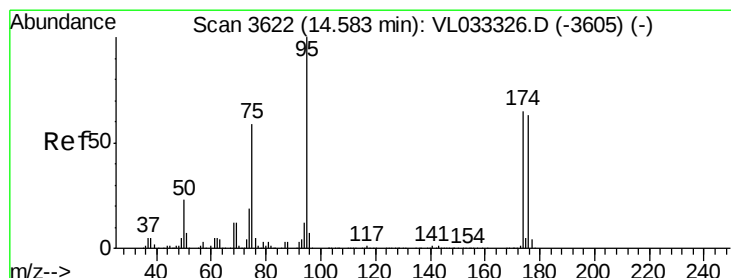
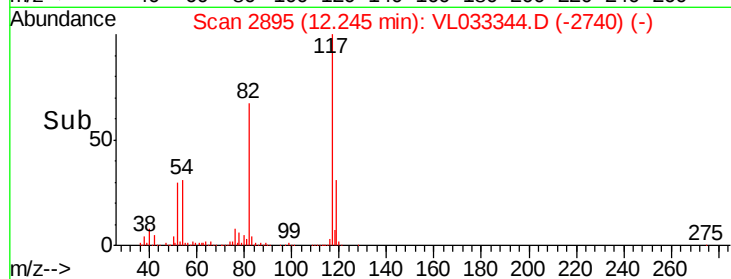
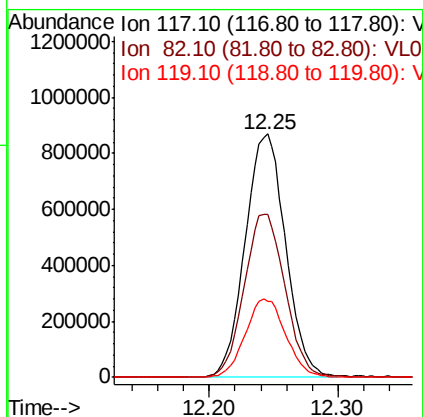
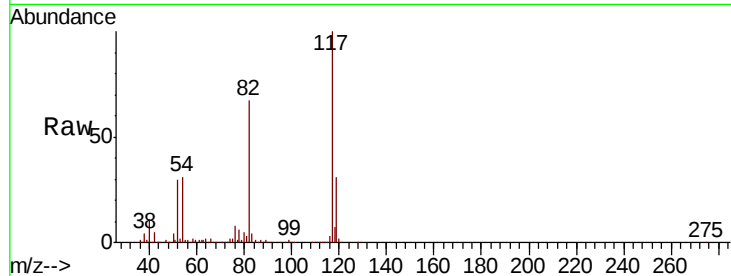




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.00 min
Lab File: VL033344.D
Acq: 15 Mar 2019 23:42

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:117 Resp: 1899050
Ion Ratio Lower Upper
117 100
82 68.2 53.4 80.2
119 32.5 27.3 40.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.303 ppbv
RT: 14.58 min Scan# 3622
Delta R.T. -0.00 min
Lab File: VL033344.D
Acq: 15 Mar 2019 23:42

Tgt Ion: 95 Resp: 1449780
Ion Ratio Lower Upper
95 100
174 63.9 51.5 77.3
175 4.6 3.8 5.6

