

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033351.D
 Acq On : 16 Mar 2019 4:25
 Operator : SY/AP
 Sample : K1827-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 16 06:48:35 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	800714	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1754731	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1748360	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1337382	10.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

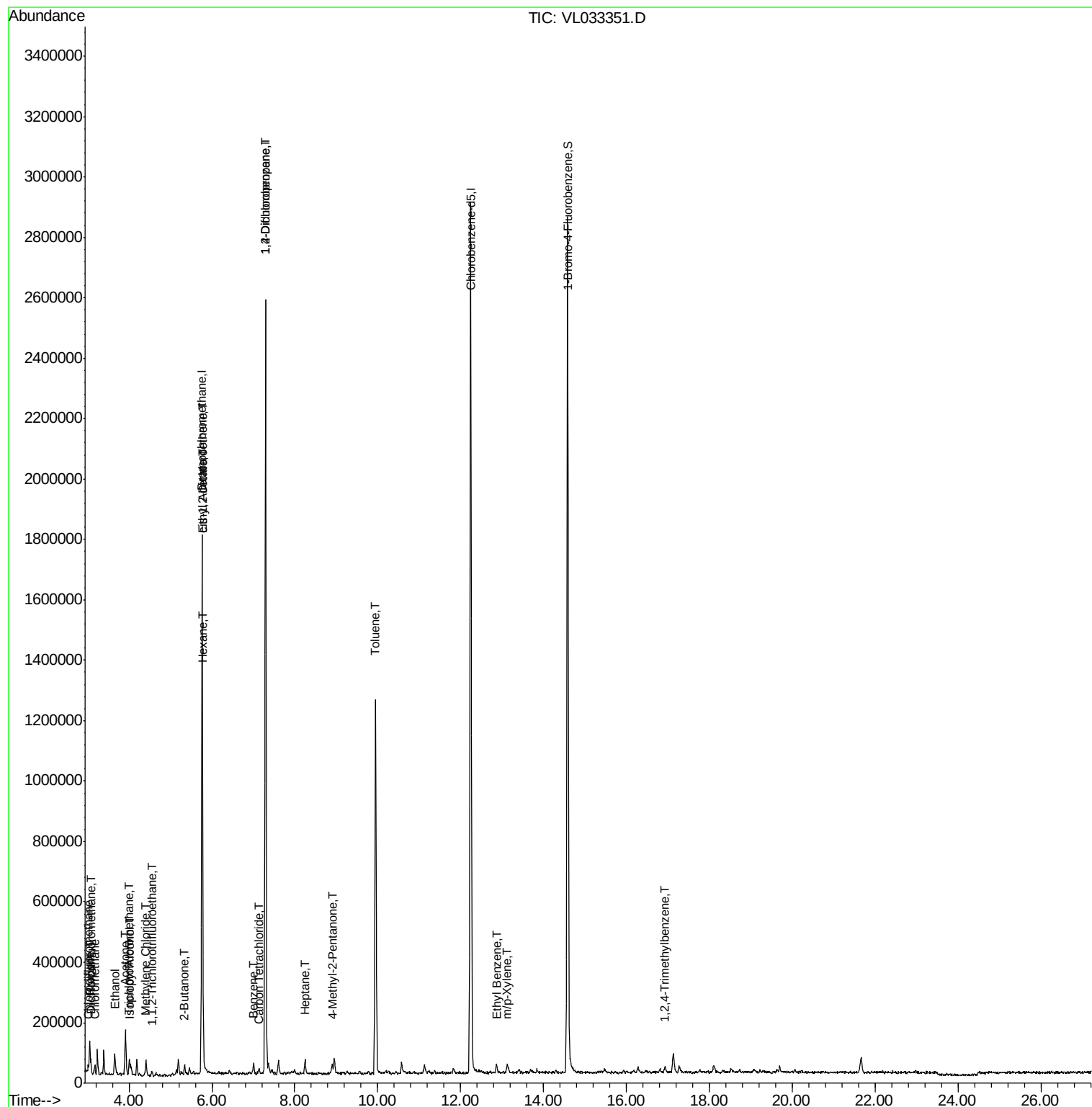
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	32405	0.230 ppbv	96
3) Chlorodifluoromethane	3.01	51	25748	0.280 ppbv	98
4) Chloromethane	3.17	50	22200	0.446 ppbv	92
9) Propene	3.05	41	19128	0.466 ppbv #	71
10) Heptane	8.25	43	14985	0.147 ppbv	98
11) Trichlorofluoromethane	4.00	101	30601	0.218 ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.55	101	4455	0.048 ppbv #	58
13) Ethanol	3.65	45	77414	3.958 ppbv	99
15) Acetone	3.91	43	152136	1.222 ppbv	98
19) Isopropyl Alcohol	4.04	45	34198	0.578 ppbv #	88
20) Methylene Chloride	4.41	84	10561	0.260 ppbv #	76
25) Ethyl Acetate	5.78	43	86419	0.478 ppbv	98
26) Hexane	5.78	57	40050	0.495 ppbv	93
31) cis-1,2-Dichloroethene	5.78	61	5694	0.070 ppbv #	36
34) 2-Butanone	5.34	43	14925	0.130 ppbv #	48
35) Carbon Tetrachloride	7.14	117	5741	0.046 ppbv	94
36) Benzene	7.00	78	23054	0.147 ppbv	99
39) 1,2-Dichloropropane	7.29	63	478249	8.132 ppbv #	24
50) 4-Methyl-2-Pentanone	8.90	43	14337	0.088 ppbv #	79
53) Toluene	9.95	91	932144	5.224 ppbv	99
58) Ethyl Benzene	12.87	91	19006	0.077 ppbv #	88
59) m/p-Xylene	13.13	91	6271	0.030 ppbv #	100
74) 1,2,4-Trimethylbenzene	16.93	105	5315	0.022 ppbv #	64

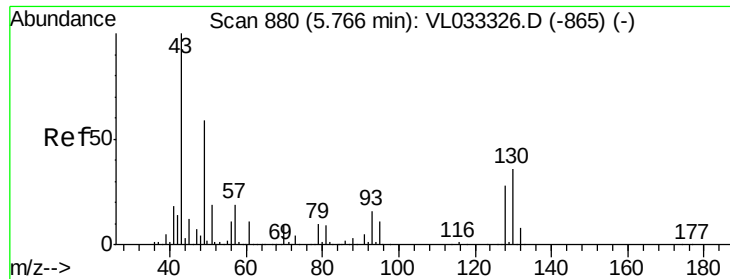
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
Data File : VL033351.D
Acq On : 16 Mar 2019 4:25
Operator : SY/AP
Sample : K1827-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Mar 16 06:48:35 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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

Lab File: VL033351.D

Acq: 16 Mar 2019 4:25

Instrument :

MSVOA_L

ClientSampleId :

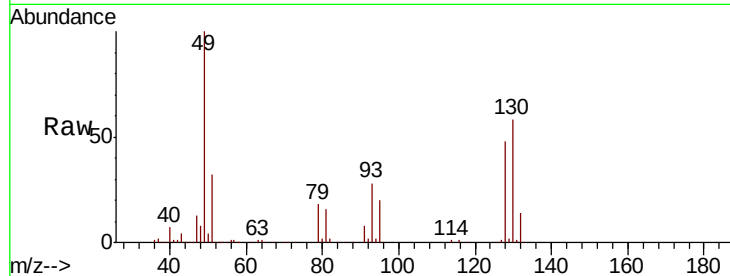
Tot Ion: 49 Resp: 800714

Ion Ratio Lower Upper

49 100

128 46.3 23.5 70.6

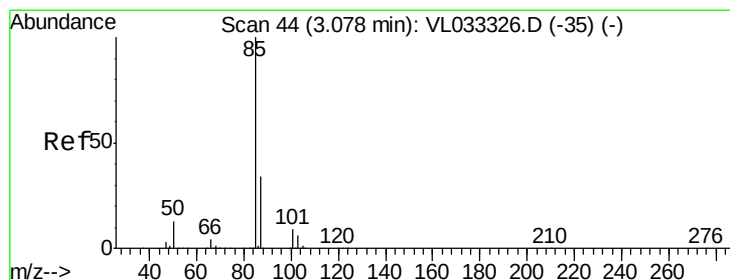
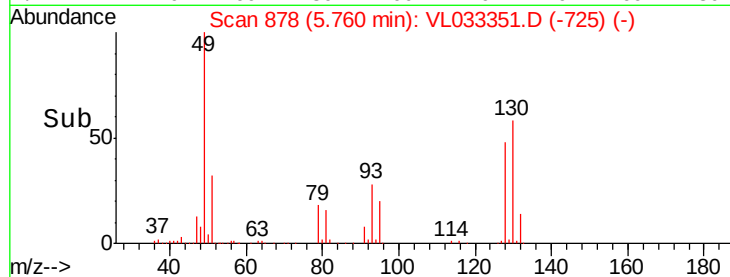
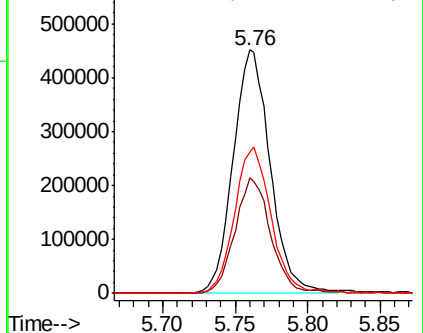
130 59.9 30.1 90.3



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: 0.230 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL033351.D

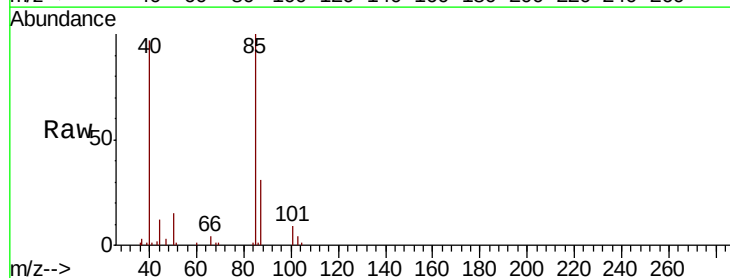
Acq: 16 Mar 2019 4:25

Tgt Ion: 85 Resp: 32405

Ion Ratio Lower Upper

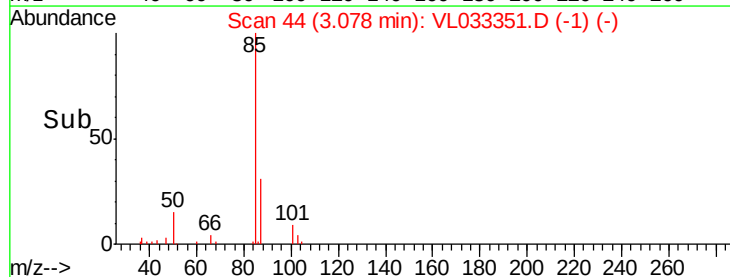
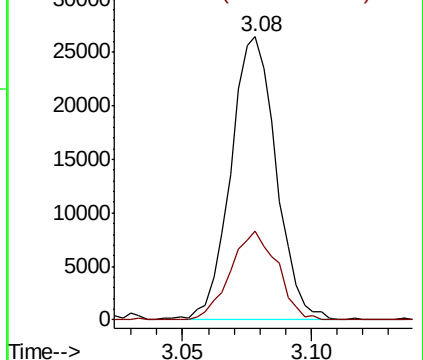
85 100

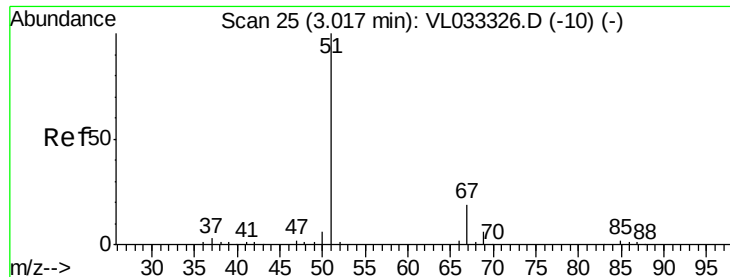
87 31.3 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.280 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.01 min

Lab File: VL033351.D

Acq: 16 Mar 2019 4:25

Instrument :

MSVOA_L

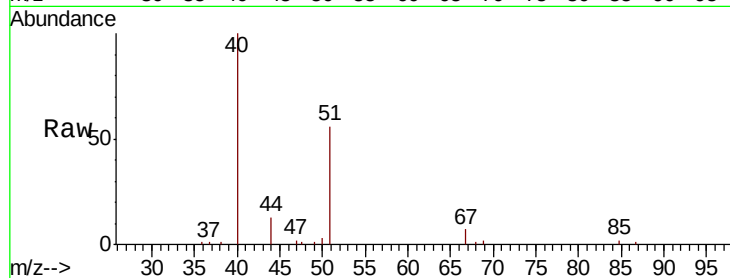
ClientSampleId :

Tot Ion: 51 Resp: 25748

Ion Ratio Lower Upper

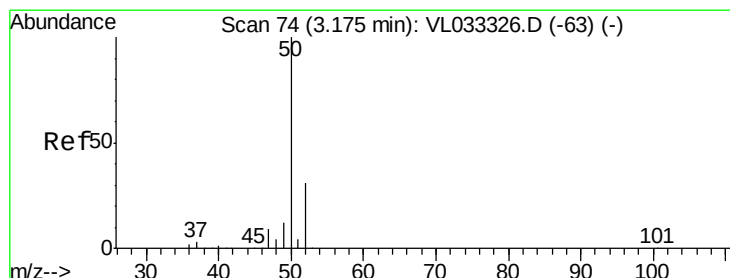
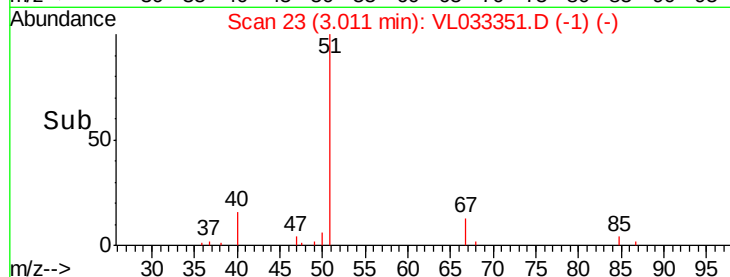
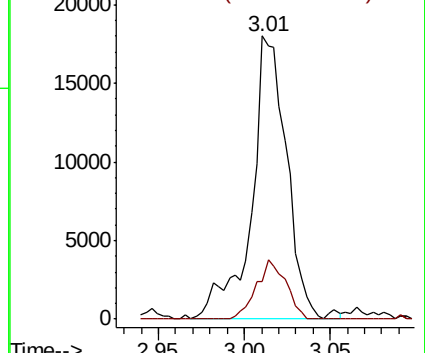
51 100

67 17.6 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: 0.446 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL033351.D

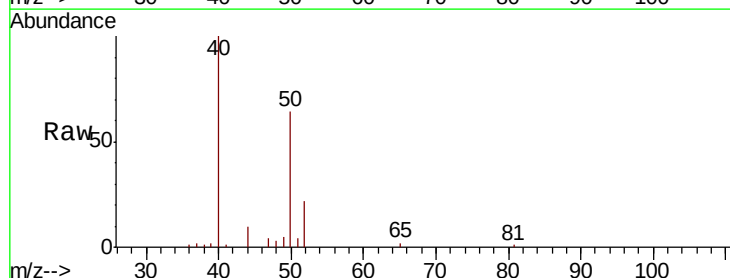
Acq: 16 Mar 2019 4:25

Tgt Ion: 50 Resp: 22200

Ion Ratio Lower Upper

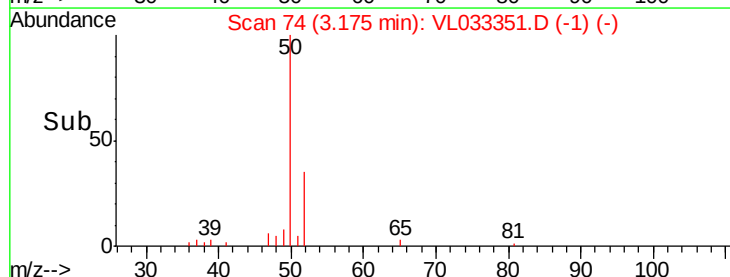
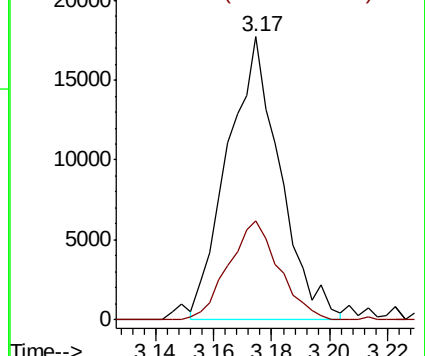
50 100

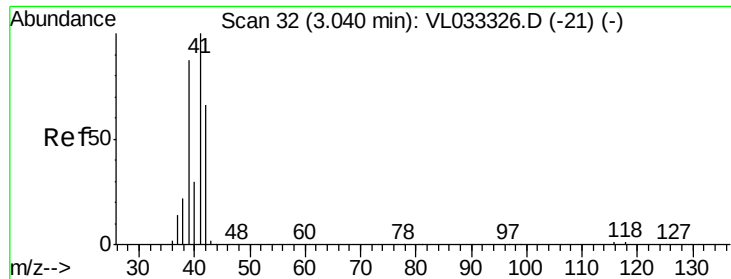
52 35.8 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.466 ppbv

RT: 3.05 min Scan# 36

Delta R.T. 0.01 min

Lab File: VL033351.D

Acq: 16 Mar 2019 4:25

Instrument :

MSVOA_L

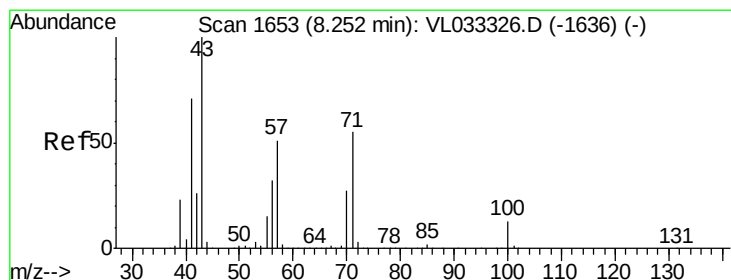
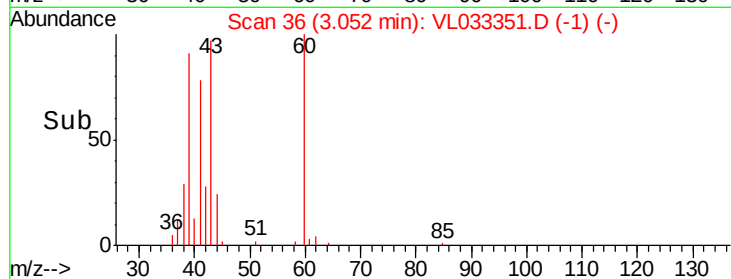
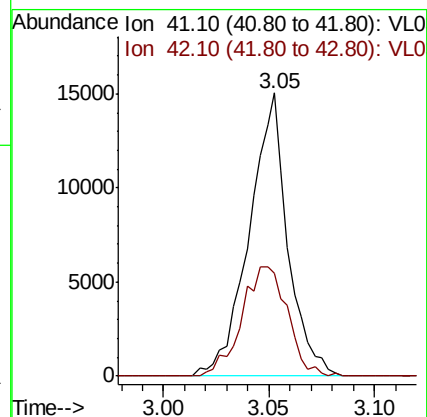
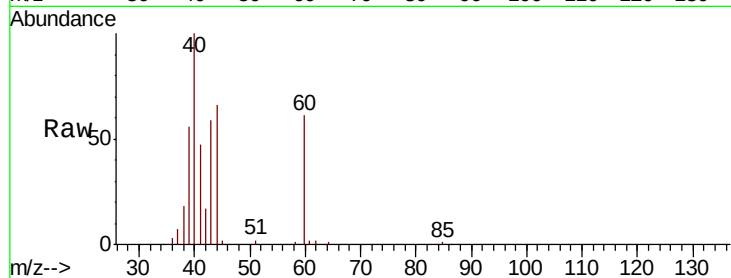
ClientSampled :

Tot Ion: 41 Resp: 19128

Ion Ratio Lower Upper

41 100

42 45.8 55.2 82.8#



#10

Heptane

Concen: 0.147 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.01 min

Lab File: VL033351.D

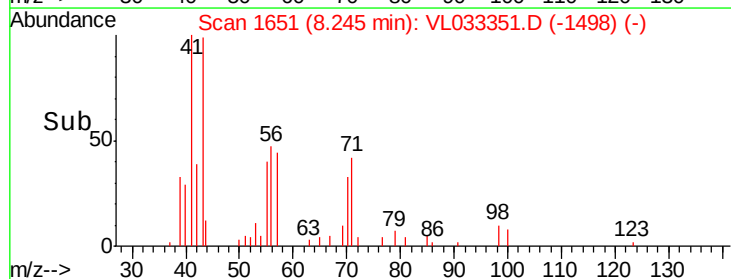
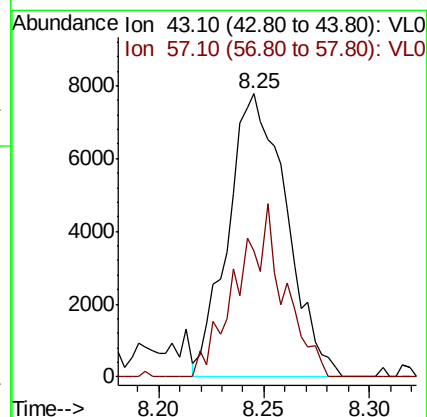
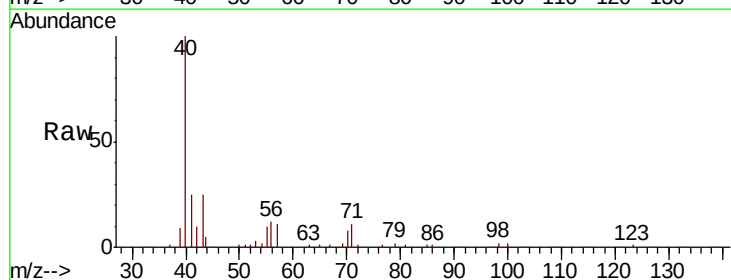
Acq: 16 Mar 2019 4:25

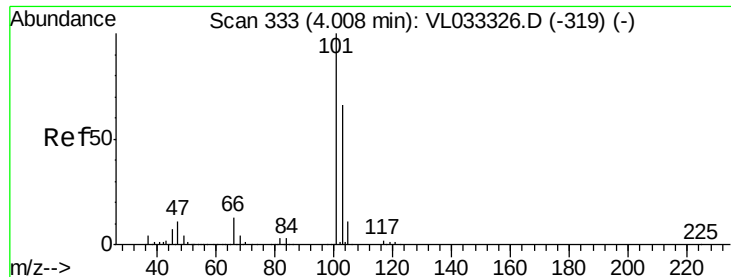
Tgt Ion: 43 Resp: 14985

Ion Ratio Lower Upper

43 100

57 48.9 40.4 60.6

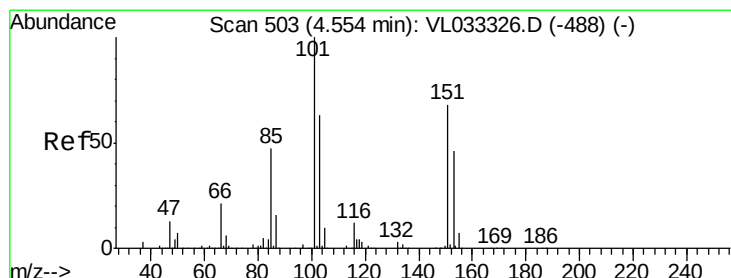
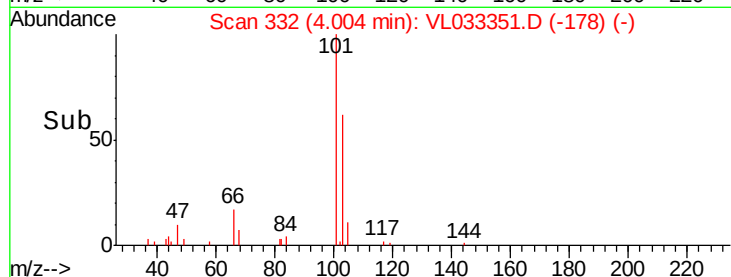
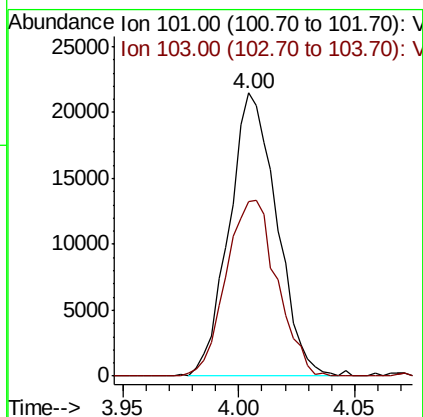
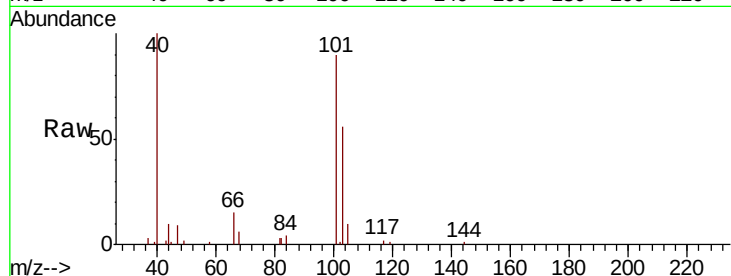




#11
 Trichlorofluoromethane
 Concen: 0.218 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033351.D
 Acq: 16 Mar 2019 4:25

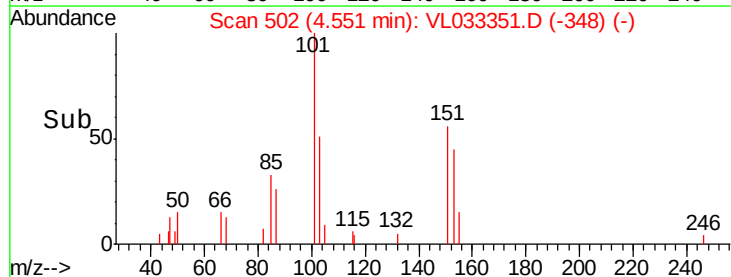
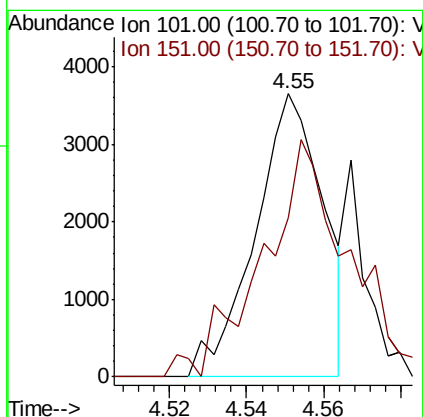
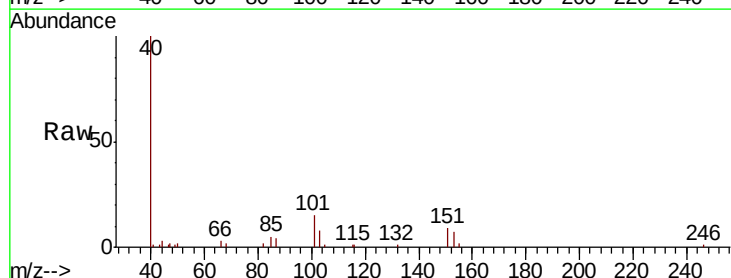
Instrument :
 MSVOA_L
 ClientSampleId :

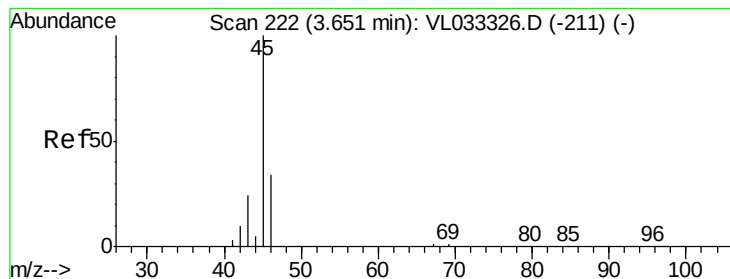
Tot Ion:101 Resp: 30601
 Ion Ratio Lower Upper
 101 100
 103 61.8 52.9 79.3



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.048 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033351.D
 Acq: 16 Mar 2019 4:25

Tgt Ion:101 Resp: 4455
 Ion Ratio Lower Upper
 101 100
 151 104.6 56.3 84.5#





#13

Ethanol

Concen: 3.958 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033351.D

Acq: 16 Mar 2019 4:25

Instrument :

MSVOA_L

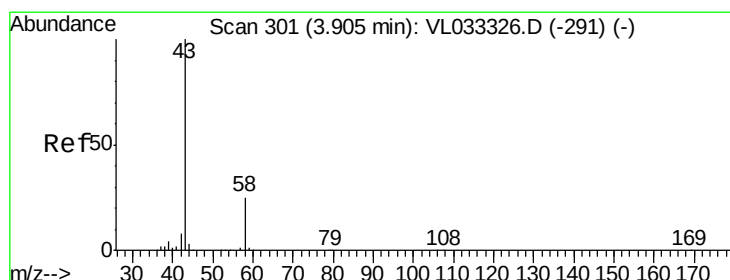
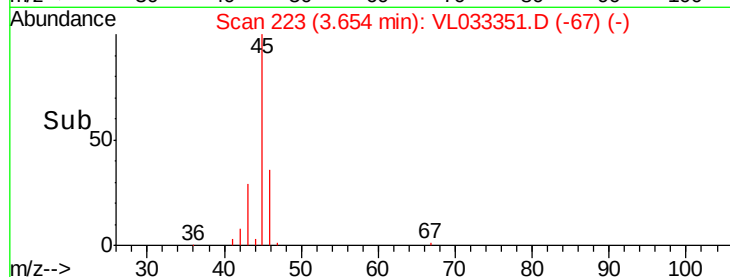
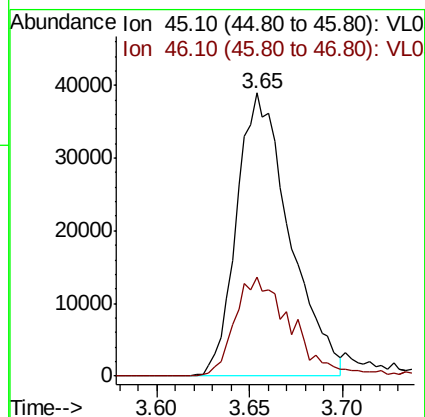
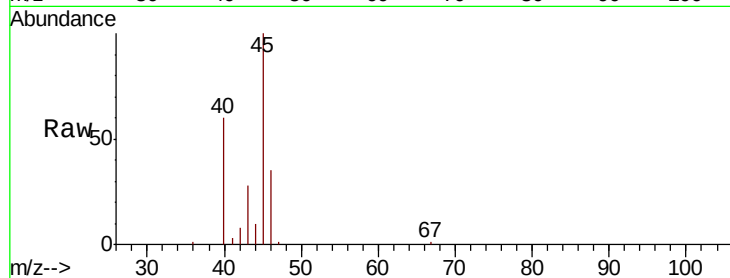
ClientSampleId :

Tot Ion: 45 Resp: 77414

Ion Ratio Lower Upper

45 100

46 38.0 14.9 59.7



#15

Acetone

Concen: 1.222 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL033351.D

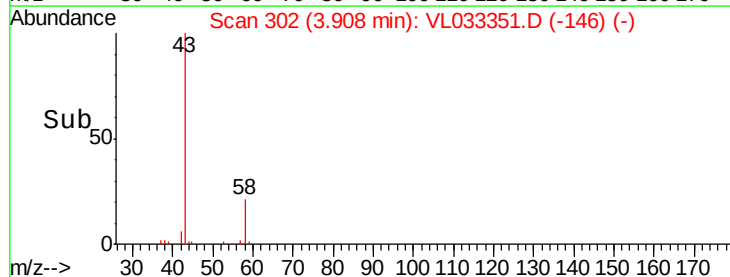
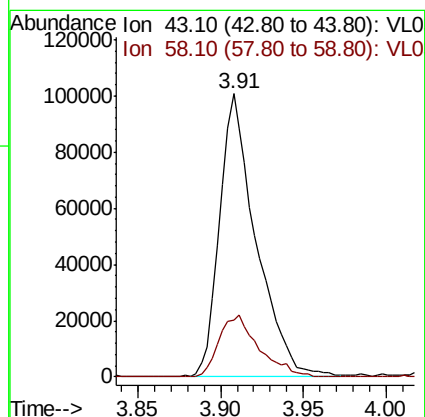
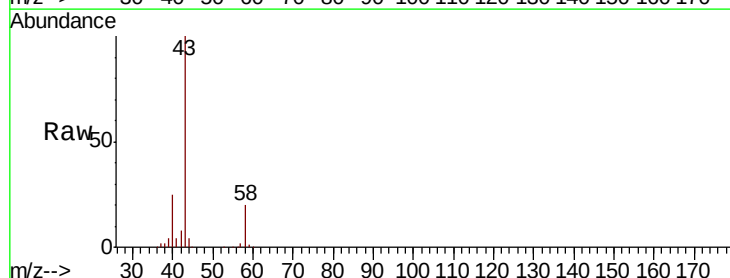
Acq: 16 Mar 2019 4:25

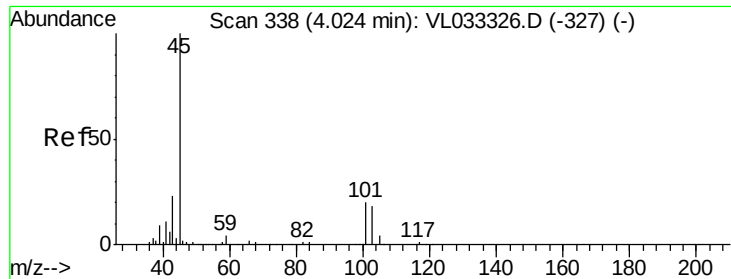
Tgt Ion: 43 Resp: 152136

Ion Ratio Lower Upper

43 100

58 24.4 20.4 30.6





#19

Isopropyl Alcohol

Concen: 0.578 ppbv

RT: 4.04 min Scan# 342

Delta R.T. 0.01 min

Lab File: VL033351.D

Acq: 16 Mar 2019 4:25

Instrument :

MSVOA_L

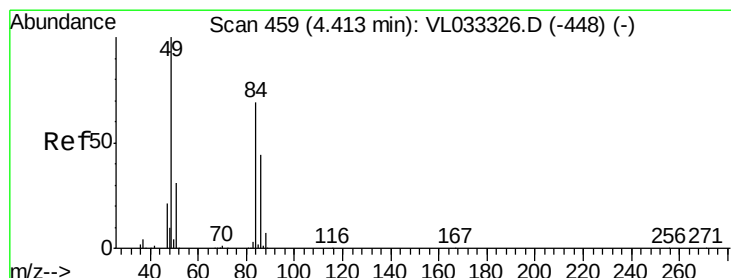
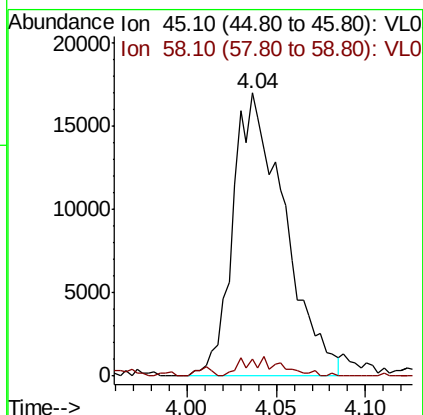
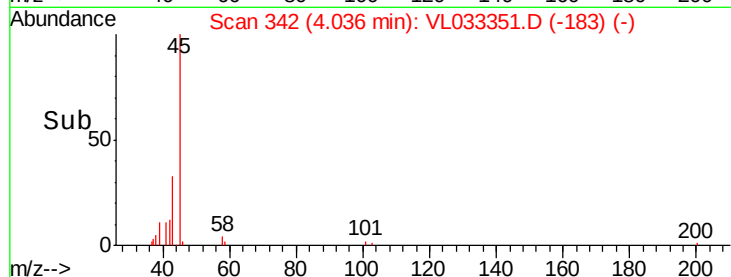
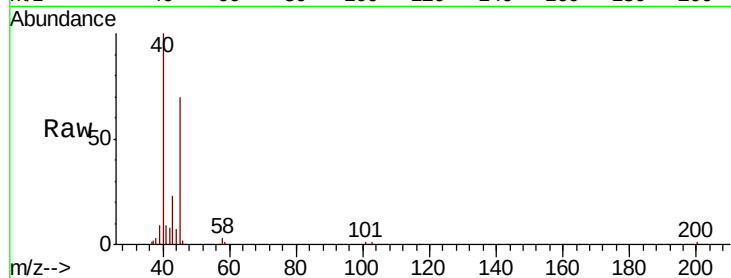
ClientSampleId :

Tot Ion: 45 Resp: 34198

Ion Ratio Lower Upper

45 100

58 6.2 1.5 2.3#



#20

Methylene Chloride

Concen: 0.260 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.01 min

Lab File: VL033351.D

Acq: 16 Mar 2019 4:25

Tgt Ion: 84 Resp: 10561

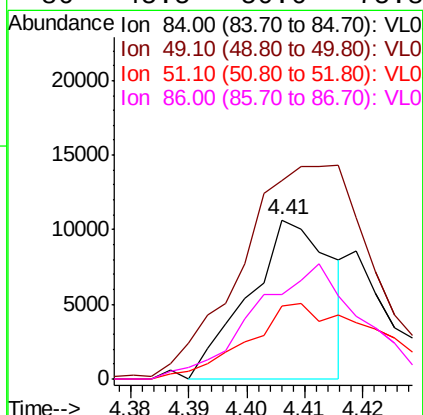
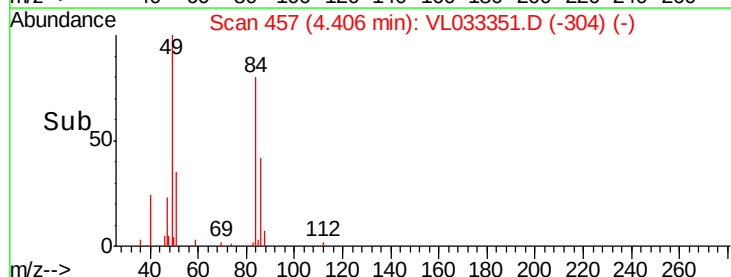
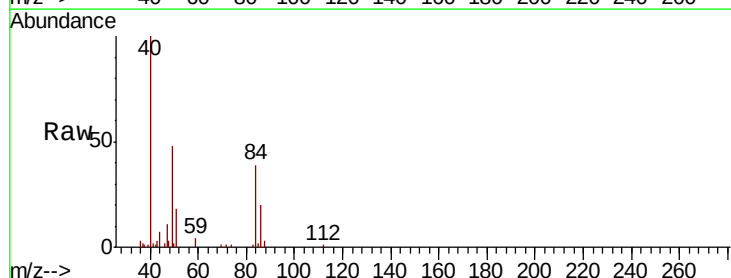
Ion Ratio Lower Upper

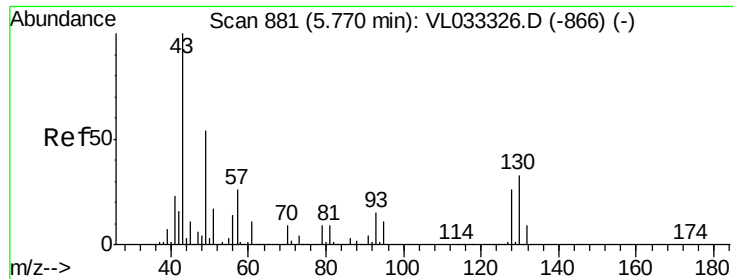
84 100

49 106.9 115.4 173.0#

51 41.2 35.8 53.6

86 45.5 50.6 75.8#

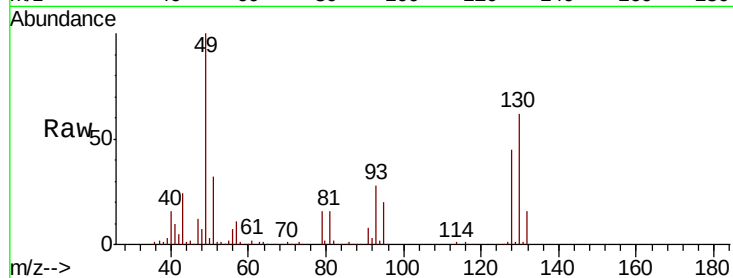




#25
Ethyl Acetate
Concen: 0.478 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033351.D
Acq: 16 Mar 2019 4:25

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	86419
Ion	Ratio	Lower	Upper
43	100		
45	10.2	7.9	11.9
61	8.0	7.4	11.2
70	6.7	5.7	8.5



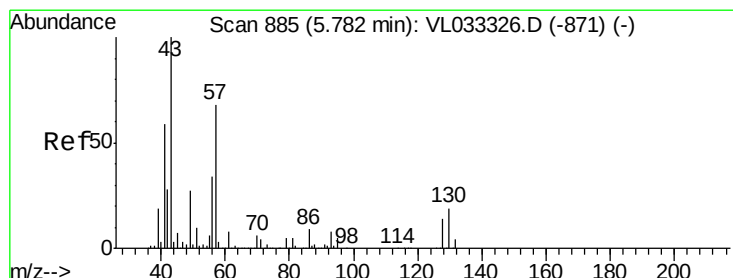
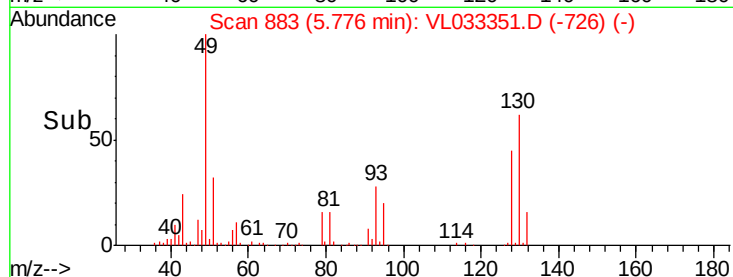
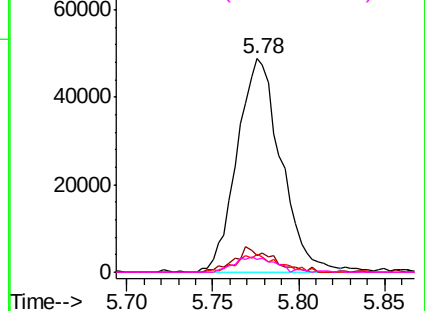
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

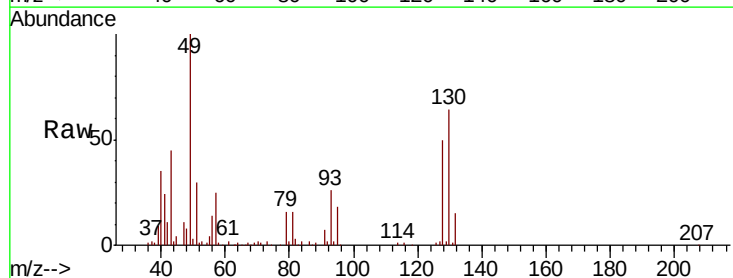
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.495 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL033351.D
Acq: 16 Mar 2019 4:25

Tgt Ion:	57	Resp:	40050
Ion	Ratio	Lower	Upper
57	100		
41	101.0	70.5	105.7
43	221.0	181.8	272.8
56	60.0	42.2	63.2



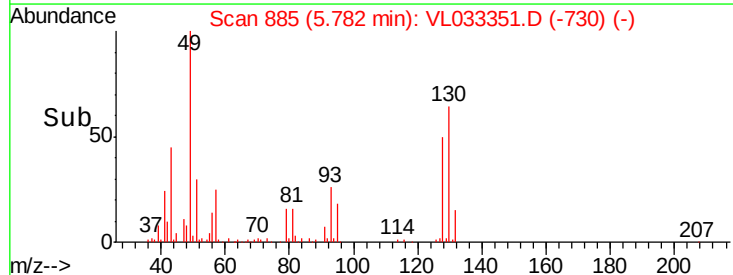
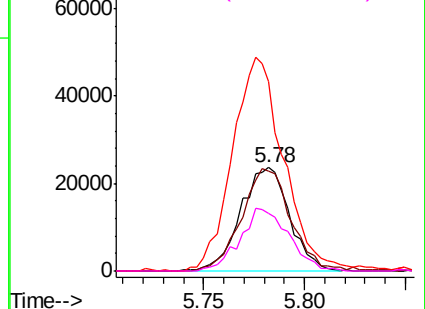
Abundance

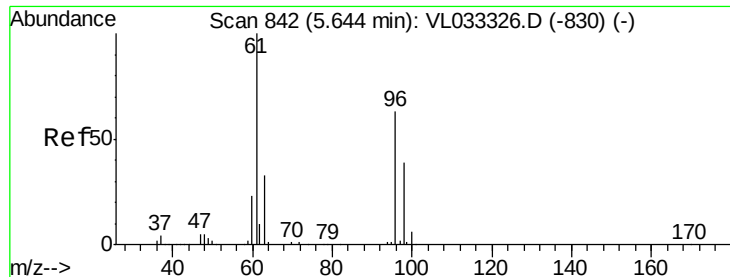
Ion 57.10 (56.80 to 57.80): VL0

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



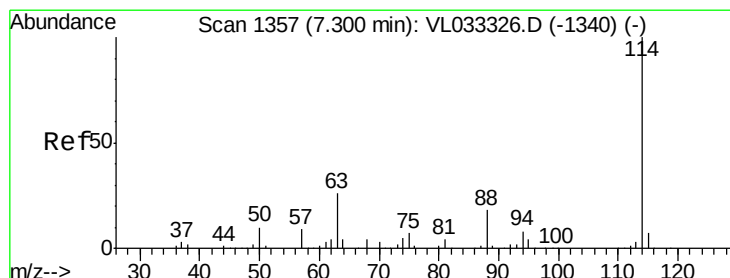
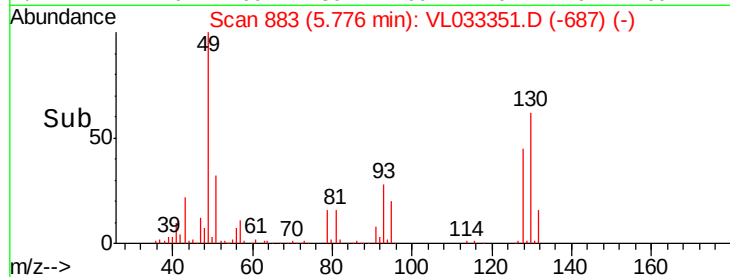
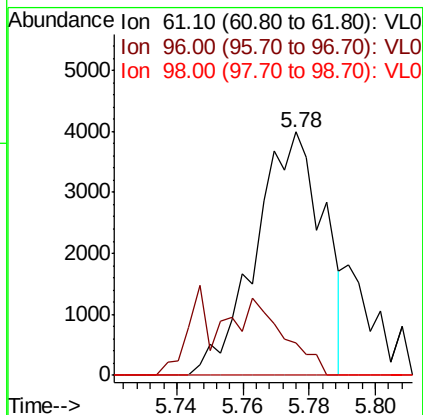
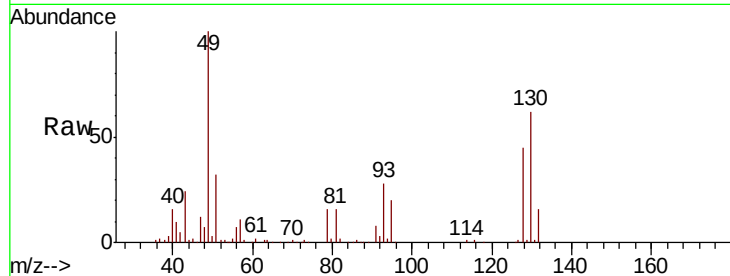


#31

cis-1,2-Dichloroethene
 Concen: 0.070 ppbv
 RT: 5.78 min Scan# 883
 Delta R.T. 0.13 min
 Lab File: VL033351.D
 Acq: 16 Mar 2019 4:25

Instrument :
 MSVOA_L
 ClientSampled :

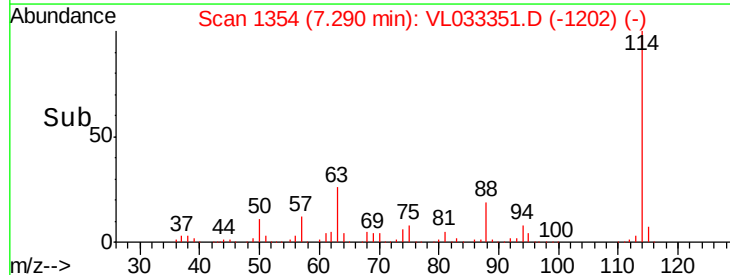
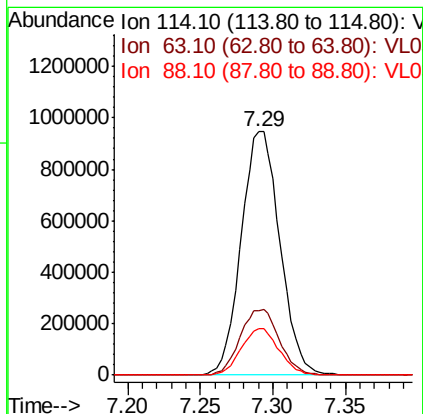
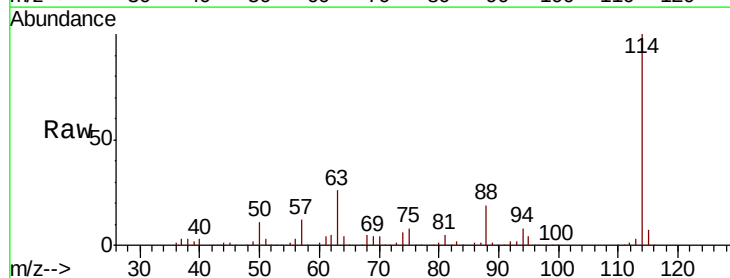
Tot Ion	61	Resp	5694
Ion Ratio	100		
Lower	50.3		
Upper	75.5#		
96	13.4		
98	0.0		
	31.5		
	47.3#		

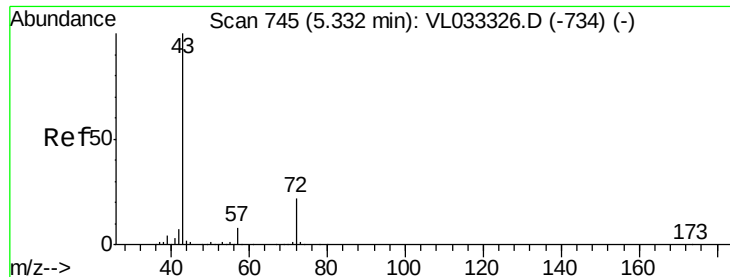


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.01 min
 Lab File: VL033351.D
 Acq: 16 Mar 2019 4:25

Tgt Ion	114	Resp	1754731
Ion Ratio	100		
Lower	21.4		
Upper	32.2		
63	27.4		
88	18.8		
	14.5		
	21.7		

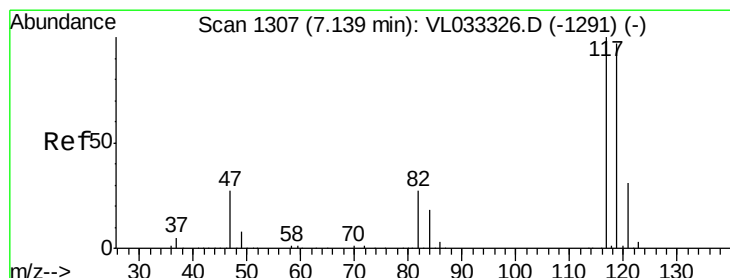
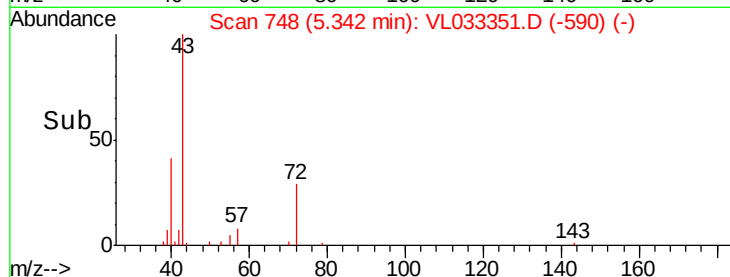
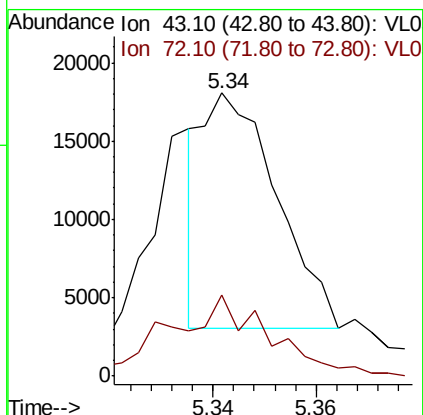
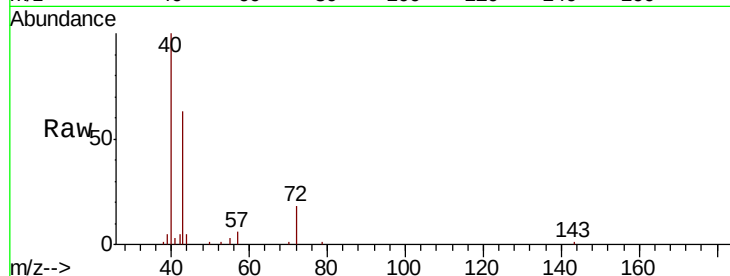




#34
2-Butanone
Concen: 0.130 ppbv
RT: 5.34 min Scan# 748
Delta R.T. 0.01 min
Lab File: VL033351.D
Acq: 16 Mar 2019 4:25

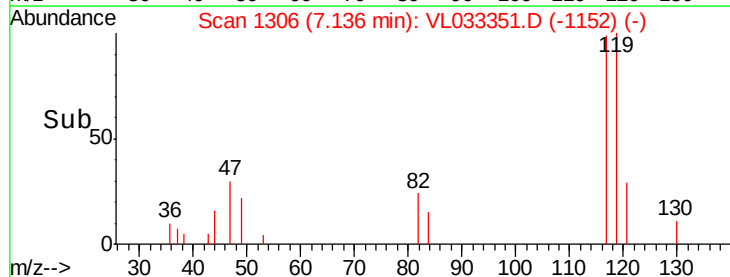
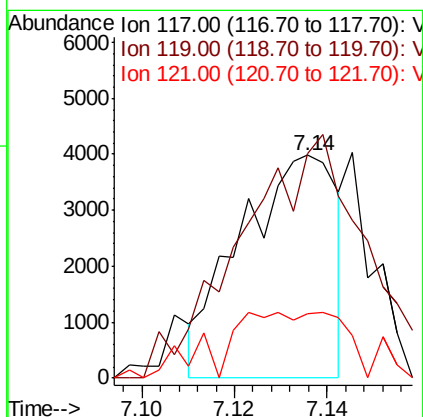
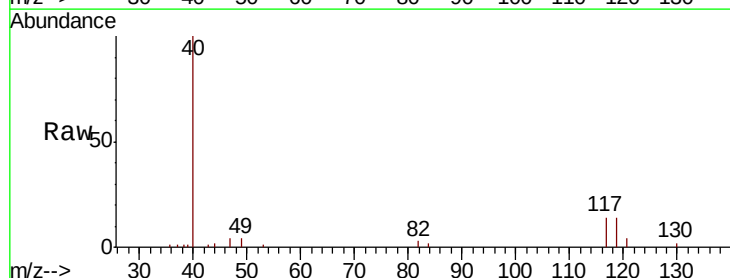
Instrument :
MSVOA_L
ClientSampleId :

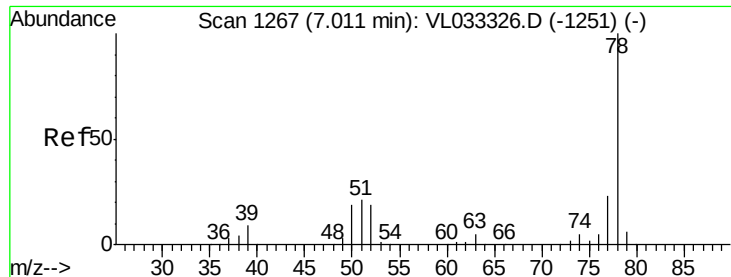
Tot Ion: 43 Resp: 14925
Ion Ratio Lower Upper
43 100
72 46.9 17.7 26.5#



#35
Carbon Tetrachloride
Concen: 0.046 ppbv
RT: 7.14 min Scan# 1306
Delta R.T. -0.00 min
Lab File: VL033351.D
Acq: 16 Mar 2019 4:25

Tgt Ion: 117 Resp: 5741
Ion Ratio Lower Upper
117 100
119 103.7 77.4 116.0
121 31.5 24.9 37.3

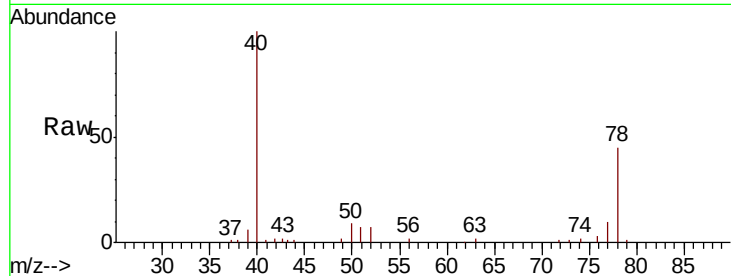




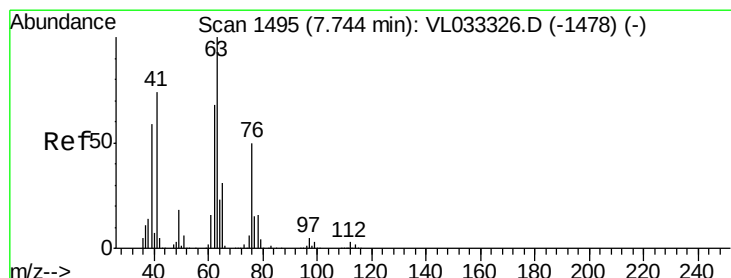
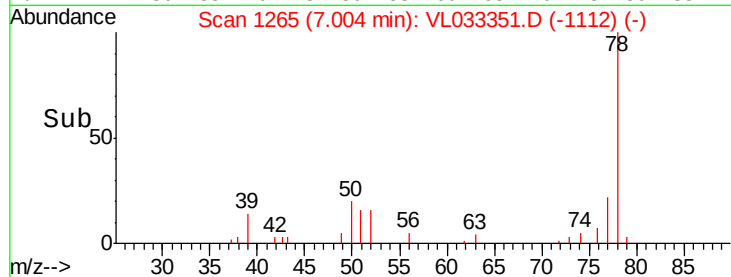
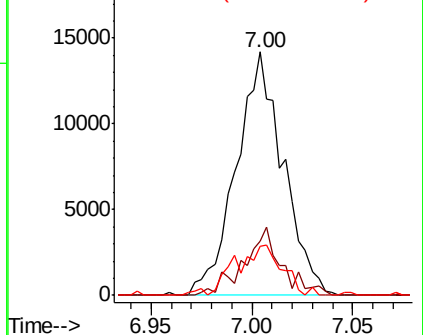
#36
Benzene
Concen: 0.147 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. -0.01 min
Lab File: VL033351.D
Acq: 16 Mar 2019 4:25

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 78 Resp: 23054
Ion Ratio Lower Upper
78 100
77 22.4 18.1 27.1
50 19.9 15.2 22.8

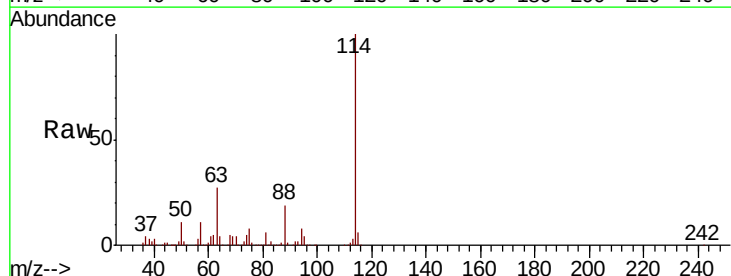


Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

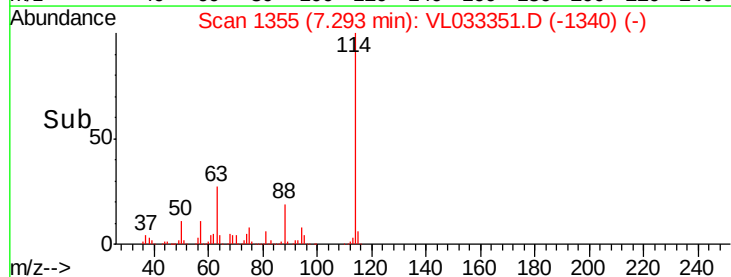
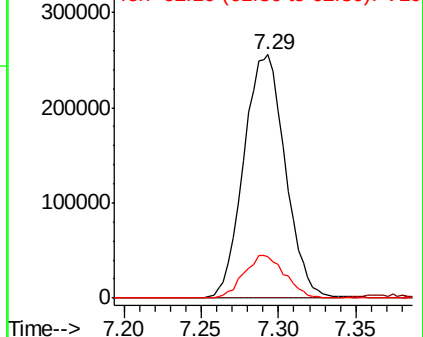


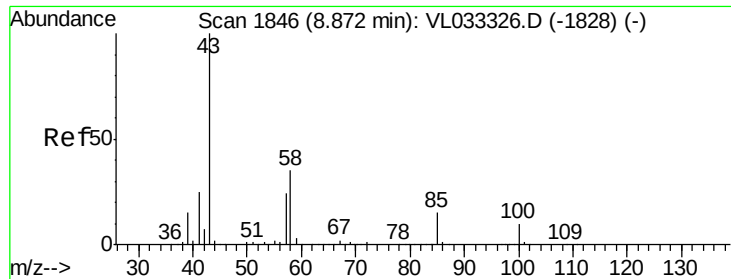
#39
1,2-Dichloropropane
Concen: 8.132 ppbv
RT: 7.29 min Scan# 1355
Delta R.T. -0.45 min
Lab File: VL033351.D
Acq: 16 Mar 2019 4:25

Tgt Ion: 63 Resp: 478249
Ion Ratio Lower Upper
63 100
41 0.0 59.5 89.3#
62 17.2 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





#50

4-Methyl-2-Pentanone

Concen: 0.088 ppbv

RT: 8.90 min Scan# 1854

Delta R.T. 0.03 min

Lab File: VL033351.D

Acq: 16 Mar 2019 4:25

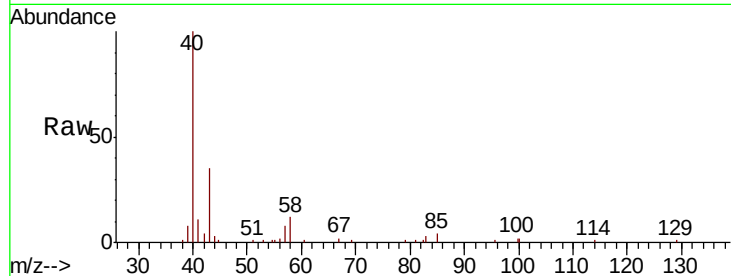
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 14337

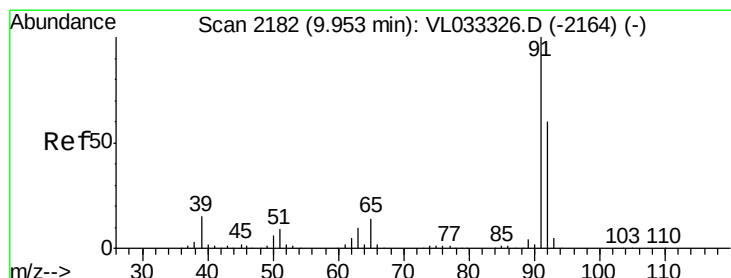
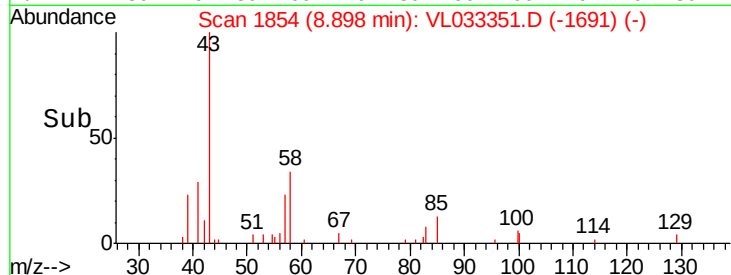
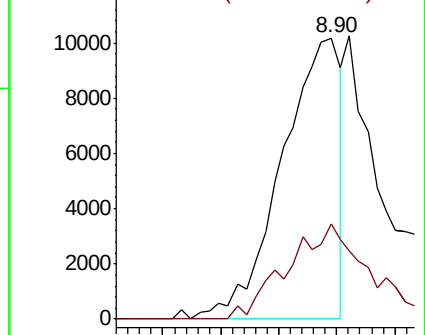
Ion Ratio Lower Upper

43 100

58 47.6 28.4 42.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0



#53

Toluene

Concen: 5.224 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL033351.D

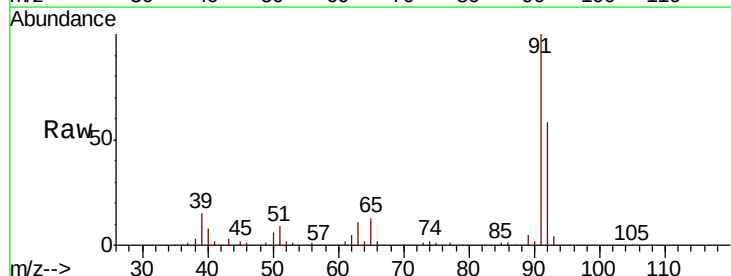
Acq: 16 Mar 2019 4:25

Tgt Ion: 91 Resp: 932144

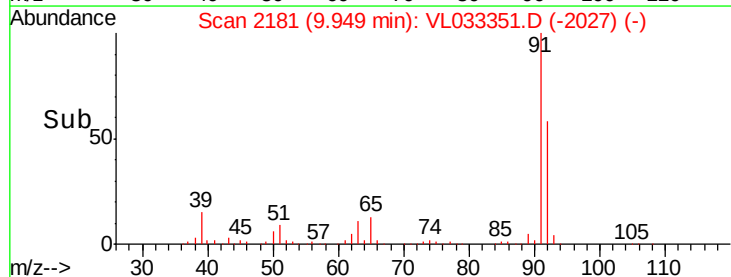
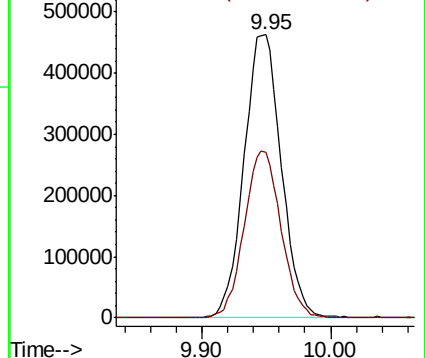
Ion Ratio Lower Upper

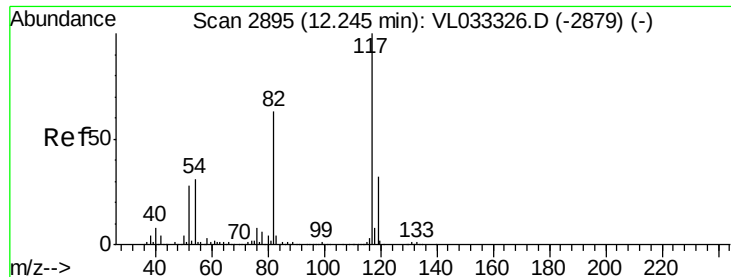
91 100

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

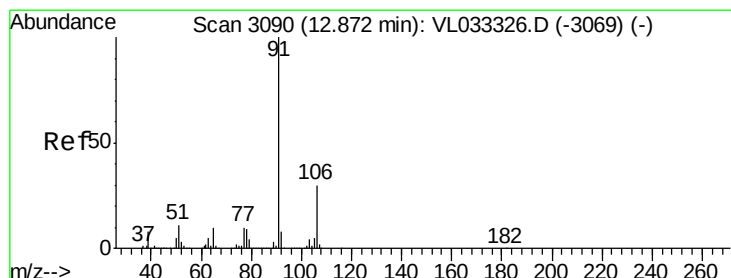
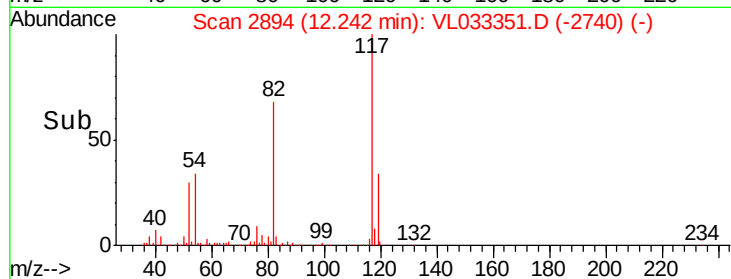
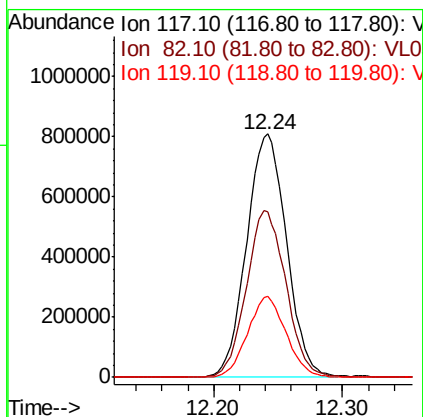
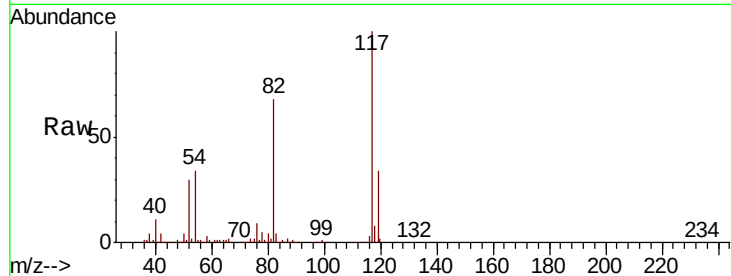




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL033351.D
Acq: 16 Mar 2019 4:25

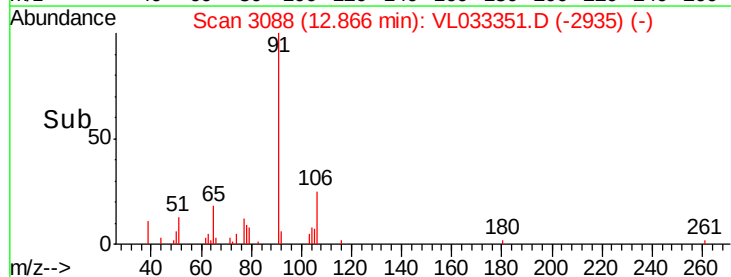
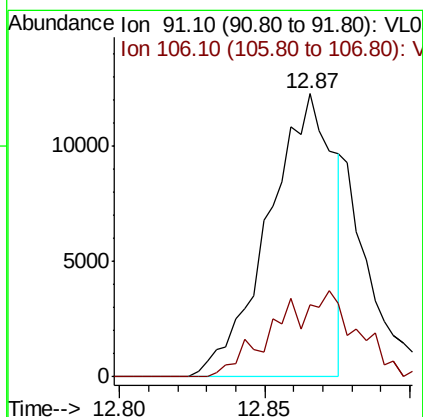
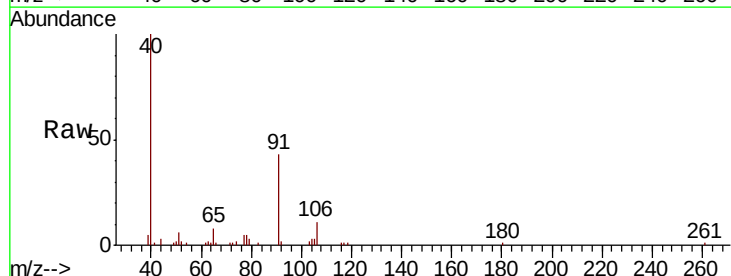
Instrument :
MSVOA_L
ClientSampleId :

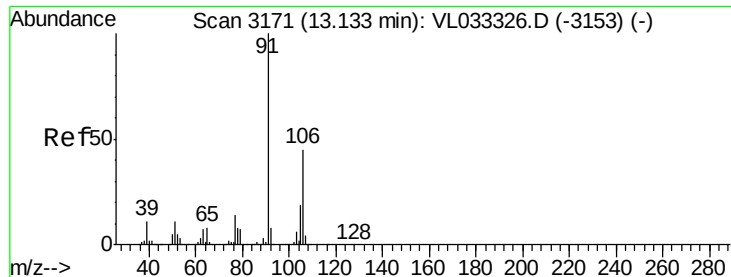
Tot Ion:117 Resp: 1748360
Ion Ratio Lower Upper
117 100
82 68.5 53.4 80.2
119 32.2 27.3 40.9



#58
Ethyl Benzene
Concen: 0.077 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. -0.01 min
Lab File: VL033351.D
Acq: 16 Mar 2019 4:25

Tgt Ion: 91 Resp: 19006
Ion Ratio Lower Upper
91 100
106 23.9 24.2 36.2#





#59

m/p-Xylene

Concen: 0.030 ppbv

RT: 13.13 min Scan# 3170

Delta R.T. -0.00 min

Lab File: VL033351.D

Acq: 16 Mar 2019 4:25

Instrument :

MSVOA_L

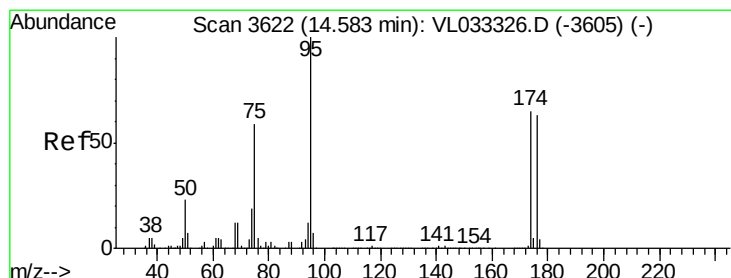
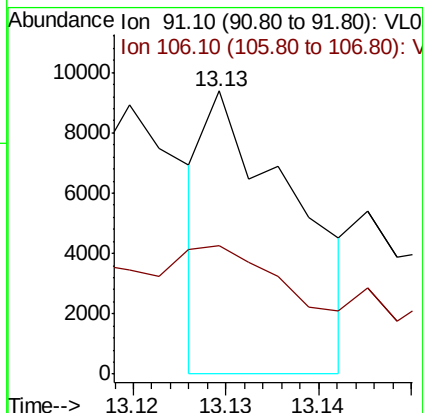
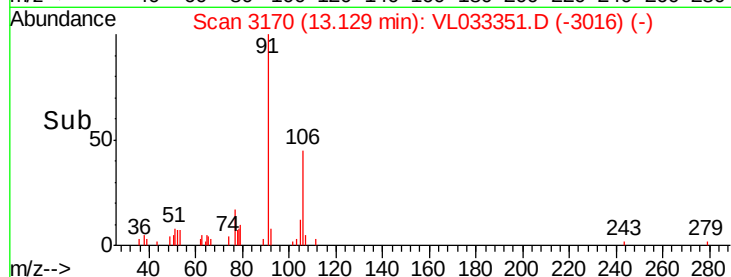
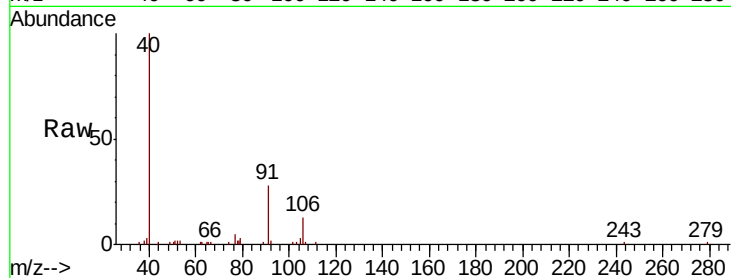
ClientSampleId :

Tot Ion: 91 Resp: 6271

Ion Ratio Lower Upper

91 100

106 183.2 0.0 0.0#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.323 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.00 min

Lab File: VL033351.D

Acq: 16 Mar 2019 4:25

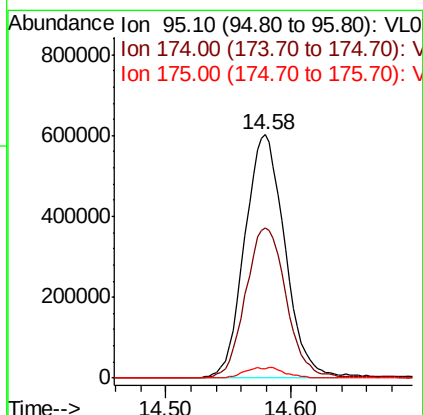
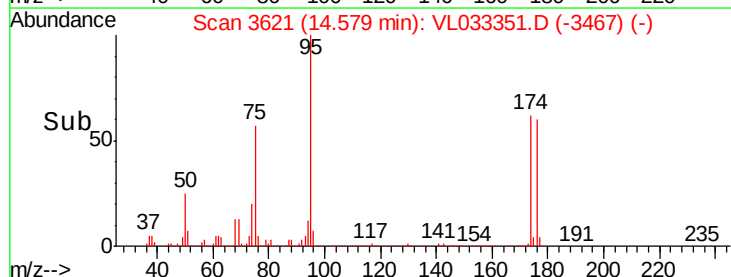
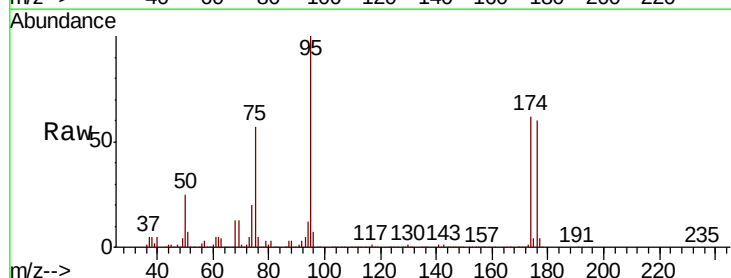
Tgt Ion: 95 Resp: 1337382

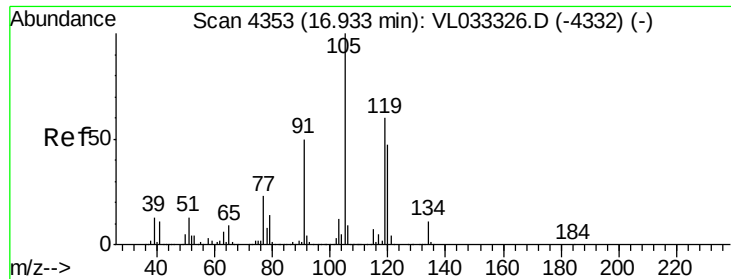
Ion Ratio Lower Upper

95 100

174 63.6 51.5 77.3

175 4.5 3.8 5.6





#74

1,2,4-Trimethylbenzene

Concen: 0.022 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. -0.01 min

Lab File: VL033351.D

Acq: 16 Mar 2019 4:25

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	105	Resp:	5315
Ion	Ratio	Lower	Upper
105	100		
120	36.2	37.4	56.2#
91	13.8	41.0	61.4#
77	4.9	18.5	27.7#

