

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061319\
 Data File : VL033918.D
 Acq On : 14 Jun 2019 4:48
 Operator : SY/AP
 Sample : K3367-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 14 05:38:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	890569	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.27	114	2020801	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.22	117	1882132	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	1564818	10.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

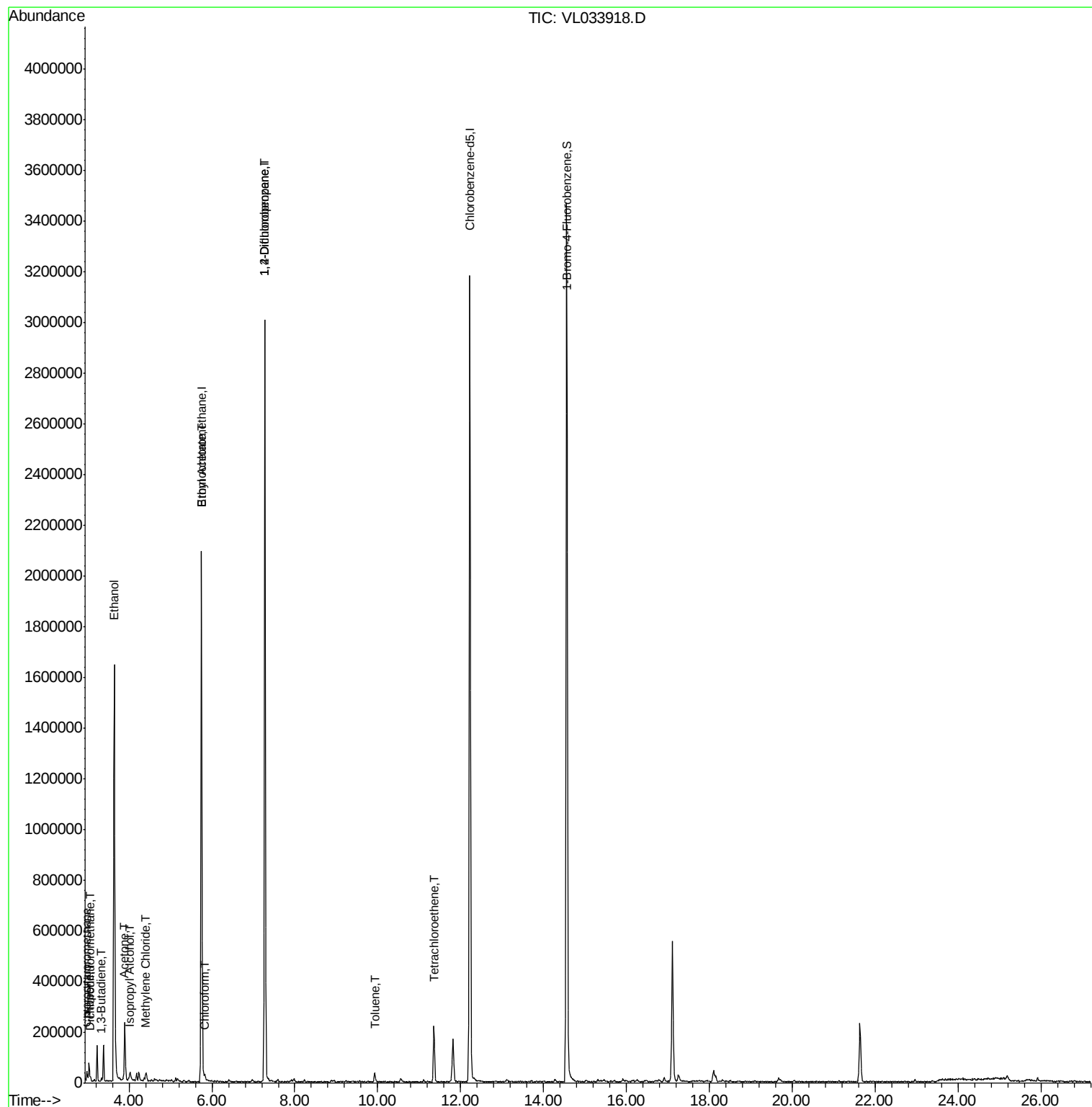
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	14205	0.098	ppbv	98
3) Chlorodifluoromethane	2.98	51	31269	0.298	ppbv #	71
9) Propene	3.04	41	14910	0.380	ppbv	88
13) Ethanol	3.64	45	1764303	138.230	ppbv	97
15) Acetone	3.89	43	218330	1.681	ppbv	97
16) 1,3-Butadiene	3.34	39	1532	0.031	ppbv #	6
19) Isopropyl Alcohol	4.02	45	35217	0.475	ppbv #	86
20) Methylene Chloride	4.40	84	7839	0.155	ppbv	89
25) Ethyl Acetate	5.75	43	7407	0.037	ppbv #	39
29) Chloroform	5.83	83	10931	0.071	ppbv	88
39) 1,2-Dichloropropane	7.27	63	526126	8.831	ppbv #	26
52) Tetrachloroethene	11.35	164	51849	0.955	ppbv	90
53) Toluene	9.92	91	23783	0.139	ppbv	100

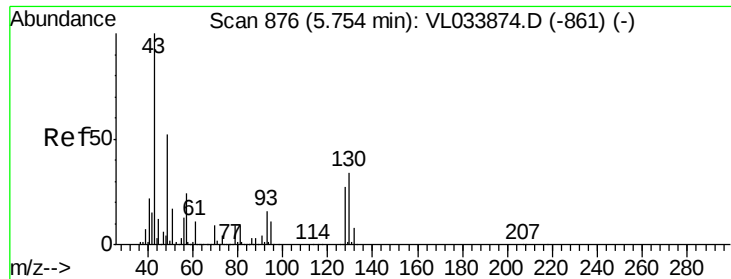
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 874

Delta R.T. -0.01 min

Lab File: VL033918.D

Acq: 14 Jun 2019 4:48

Instrument :

MSVOA_L

ClientSampleId :

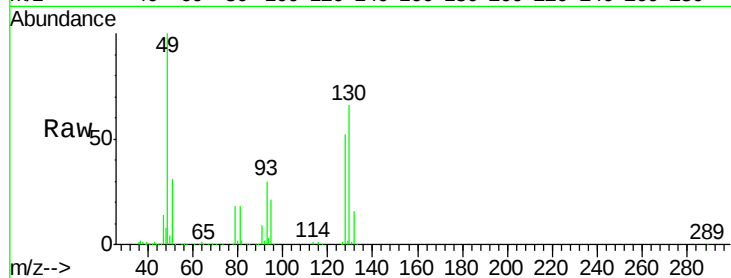
Tot Ion: 49 Resp: 890569

Ion Ratio Lower Upper

49 100

128 51.2 25.5 76.5

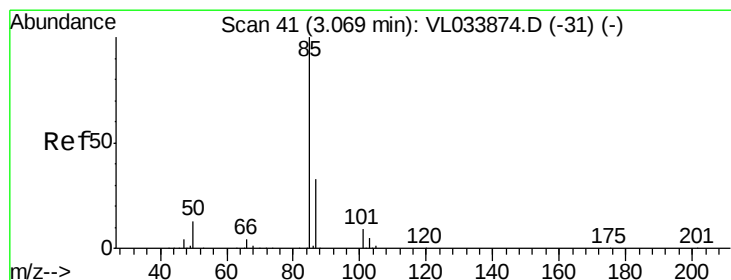
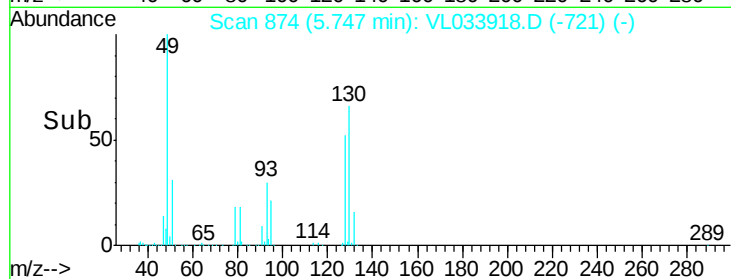
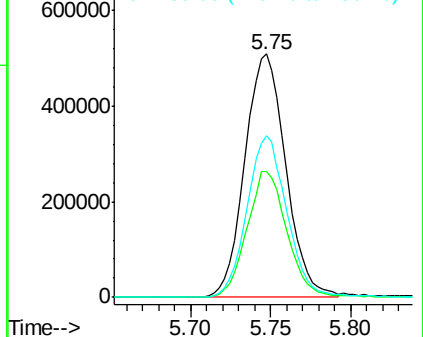
130 65.4 32.5 97.4



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: 0.098 ppbv

RT: 3.07 min Scan# 41

Delta R.T. -0.00 min

Lab File: VL033918.D

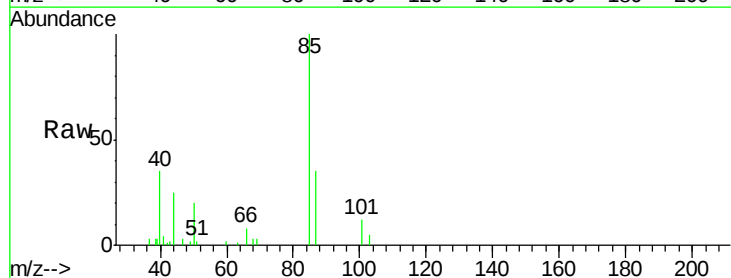
Acq: 14 Jun 2019 4:48

Tgt Ion: 85 Resp: 14205

Ion Ratio Lower Upper

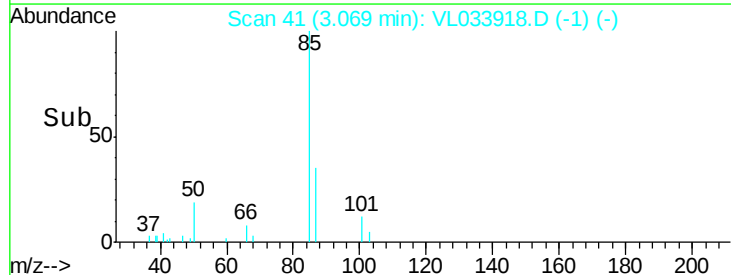
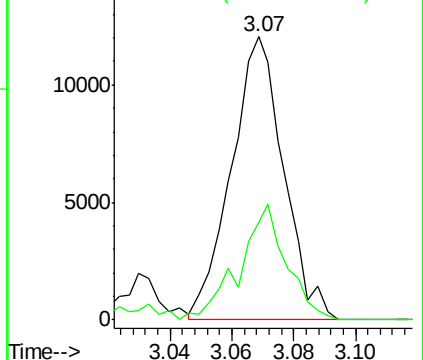
85 100

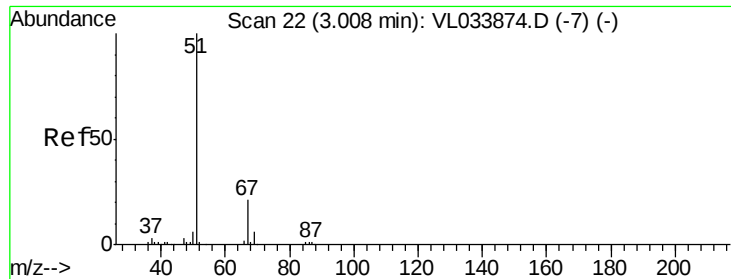
87 34.5 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

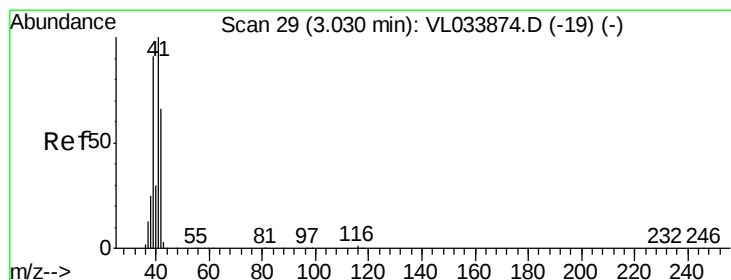
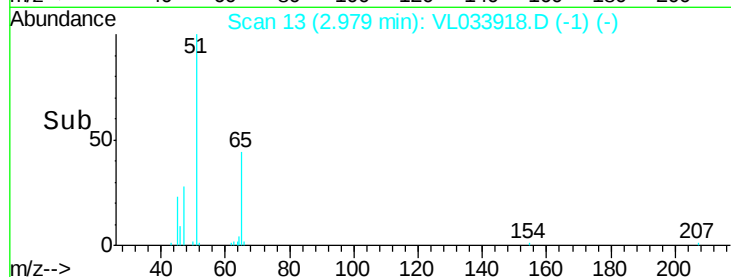
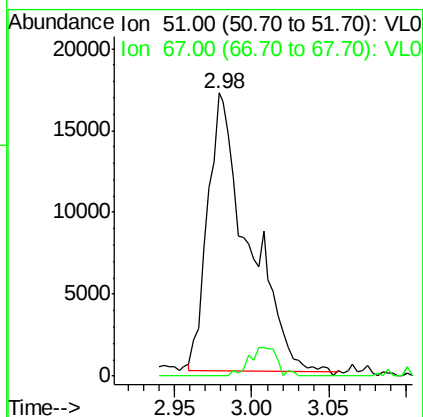
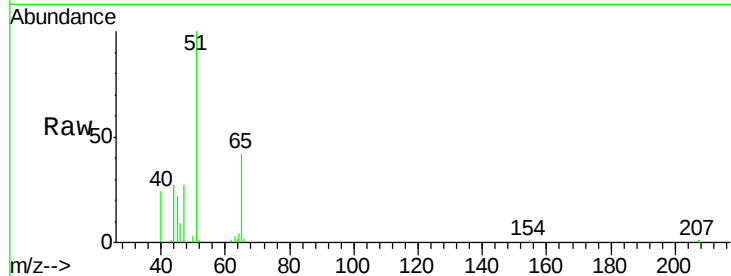




#3
 Chlorodifluoromethane
 Concen: 0.298 ppbv
 RT: 2.98 min Scan# 13
 Delta R.T. -0.03 min
 Lab File: VL033918.D
 Acq: 14 Jun 2019 4:48

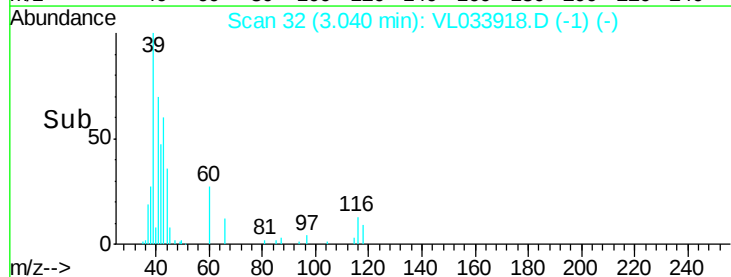
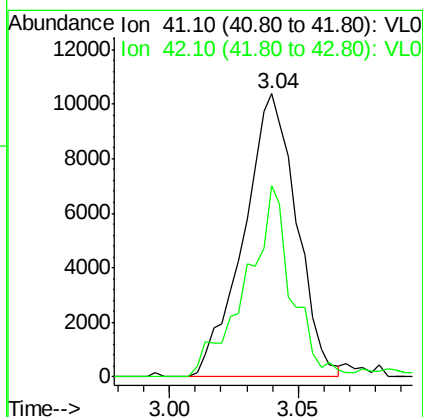
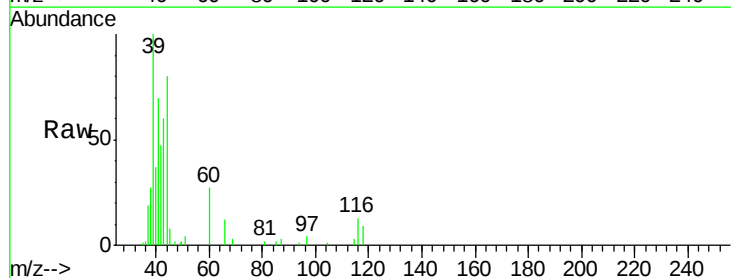
Instrument :
 MSVOA_L
 ClientSampleId :

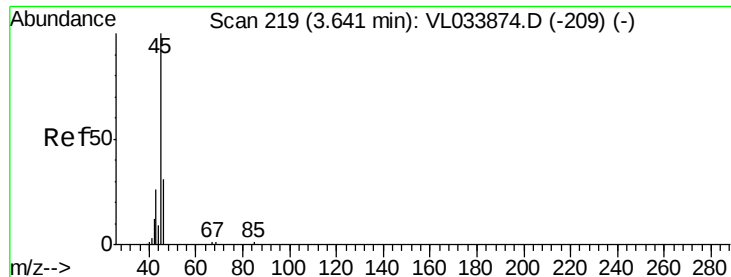
Tot Ion: 51 Resp: 31269
 Ion Ratio Lower Upper
 51 100
 67 7.2 16.4 24.6#



#9
 Propene
 Concen: 0.380 ppbv
 RT: 3.04 min Scan# 32
 Delta R.T. 0.01 min
 Lab File: VL033918.D
 Acq: 14 Jun 2019 4:48

Tgt Ion: 41 Resp: 14910
 Ion Ratio Lower Upper
 41 100
 42 60.7 56.3 84.5

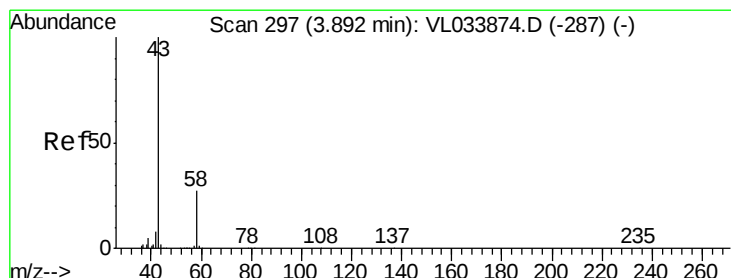
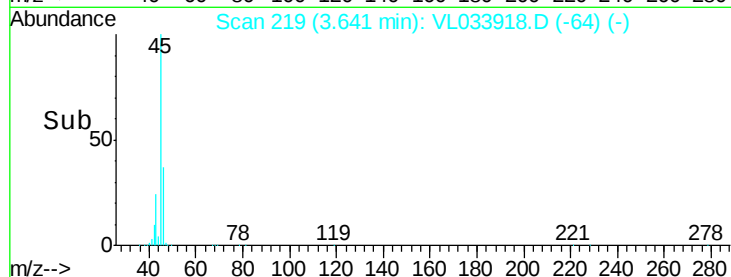
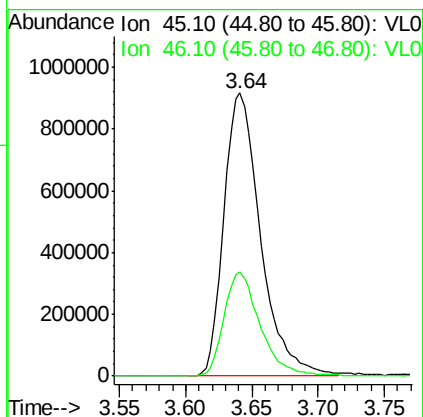
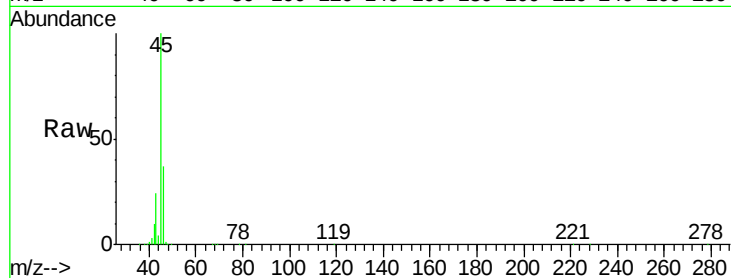




#13
Ethanol
Concen: 138.230 ppbv
RT: 3.64 min Scan# 219
Delta R.T. -0.00 min
Lab File: VL033918.D
Acq: 14 Jun 2019 4:48

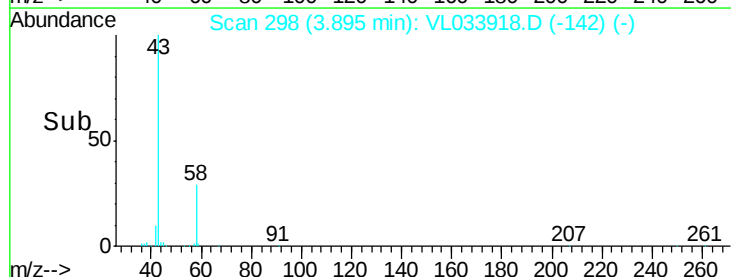
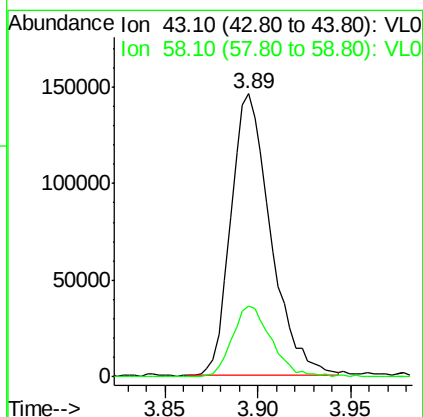
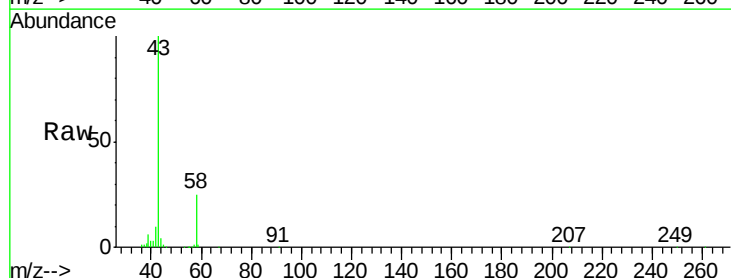
Instrument :
MSVOA_L
ClientSampleId :

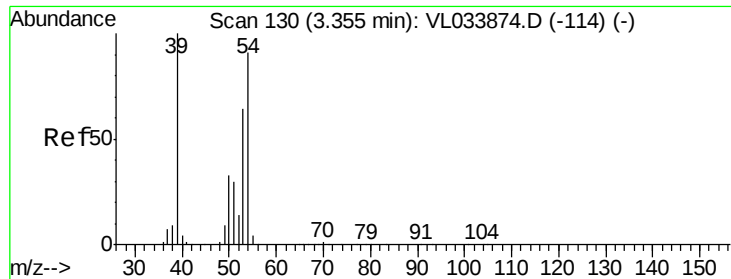
Tot Ion: 45 Resp: 1764303
Ion Ratio Lower Upper
45 100
46 36.6 15.3 61.1



#15
Acetone
Concen: 1.681 ppbv
RT: 3.89 min Scan# 298
Delta R.T. 0.00 min
Lab File: VL033918.D
Acq: 14 Jun 2019 4:48

Tgt Ion: 43 Resp: 218330
Ion Ratio Lower Upper
43 100
58 24.9 21.3 31.9

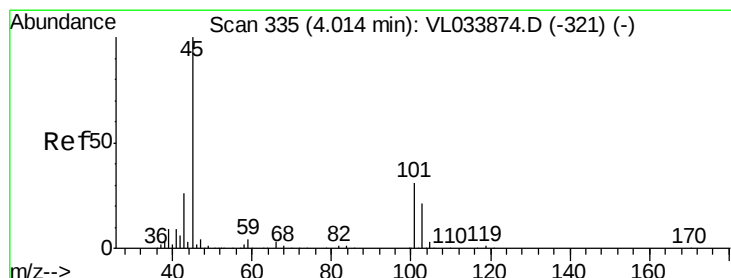
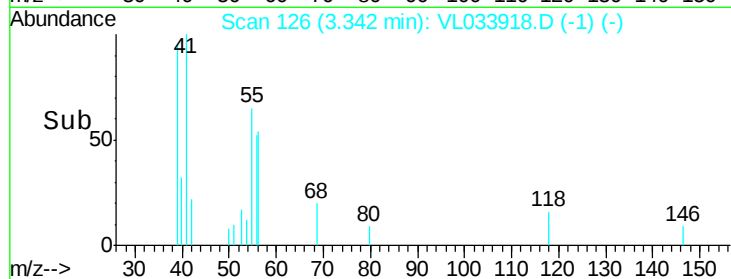
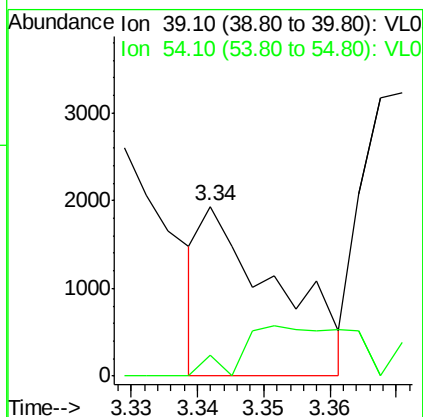
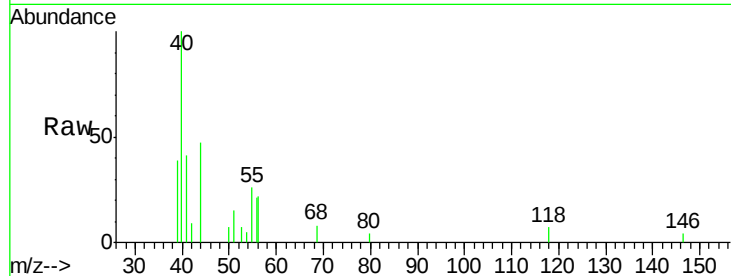




#16
1,3-Butadiene
Concen: 0.031 ppbv
RT: 3.34 min Scan# 126
Delta R.T. -0.01 min
Lab File: VL033918.D
Acq: 14 Jun 2019 4:48

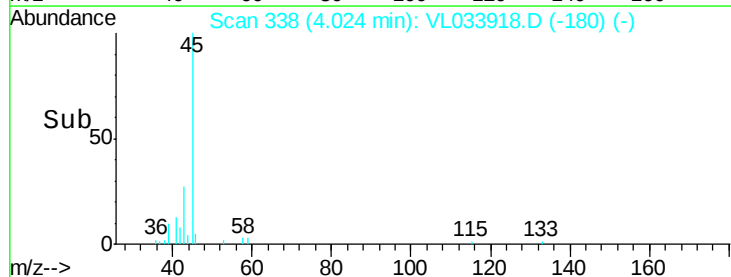
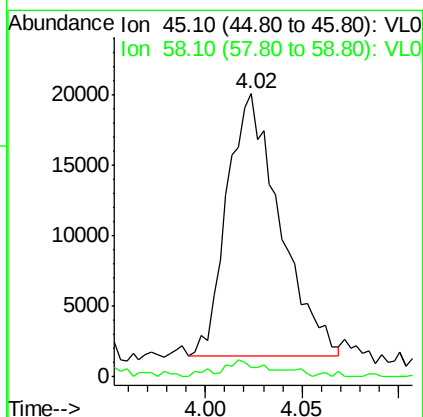
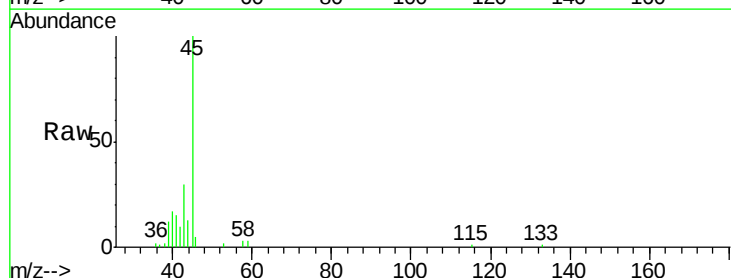
Instrument :
MSVOA_L
ClientSampled :

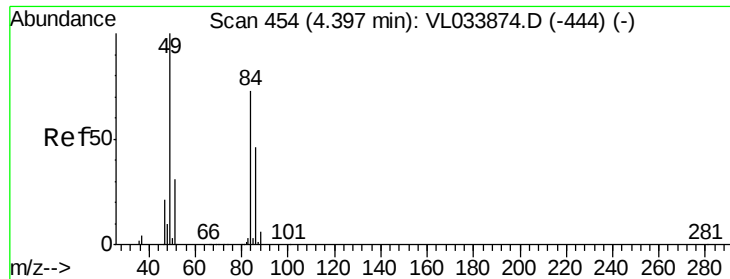
Tot Ion: 39 Resp: 1532
Ion Ratio Lower Upper
39 100
54 0.0 68.6 103.0#



#19
Isopropyl Alcohol
Concen: 0.475 ppbv
RT: 4.02 min Scan# 338
Delta R.T. 0.01 min
Lab File: VL033918.D
Acq: 14 Jun 2019 4:48

Tgt Ion: 45 Resp: 35217
Ion Ratio Lower Upper
45 100
58 7.0 1.8 2.6#

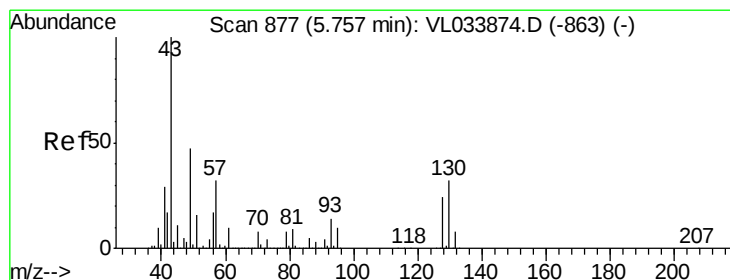
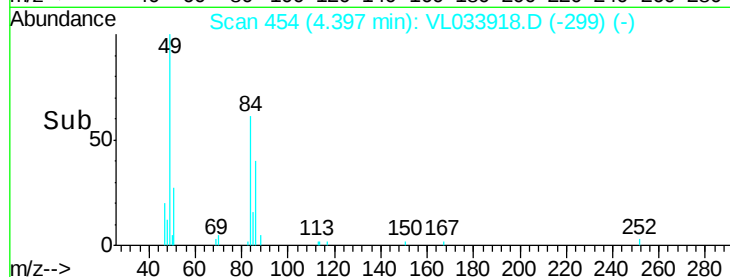
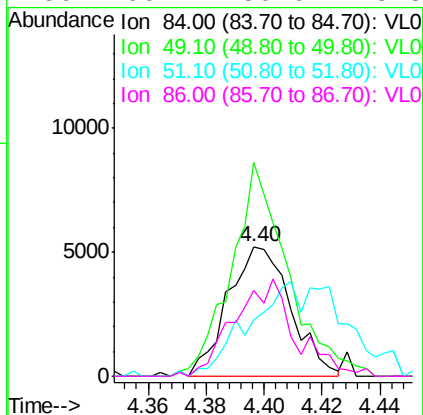
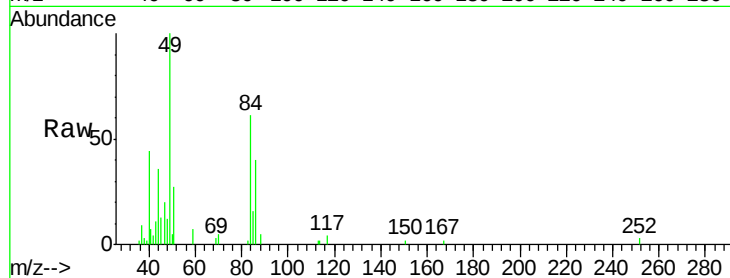




#20
Methylene Chloride
Concen: 0.155 ppbv
RT: 4.40 min Scan# 454
Delta R.T. -0.00 min
Lab File: VL033918.D
Acq: 14 Jun 2019 4:48

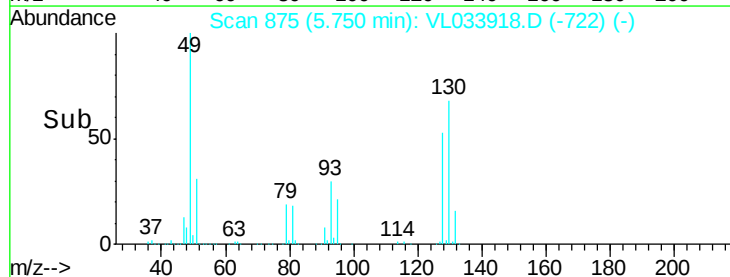
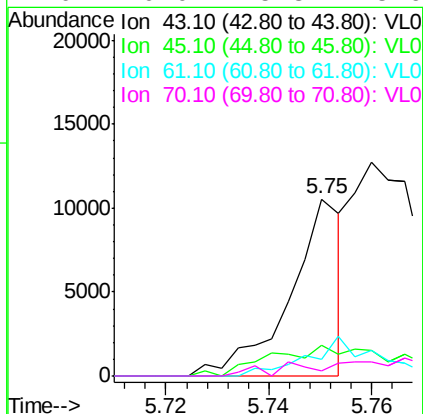
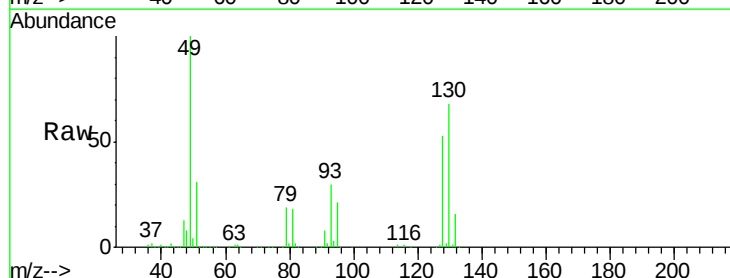
Instrument :
MSVOA_L
ClientSampled :

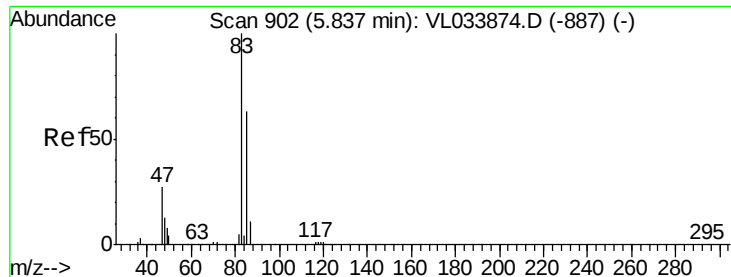
Tot Ion:	84	Resp:	7839
Ion	Ratio	Lower	Upper
84	100		
49	158.2	110.0	165.0
51	43.8	34.6	51.8
86	66.4	50.6	75.8



#25
Ethyl Acetate
Concen: 0.037 ppbv
RT: 5.75 min Scan# 875
Delta R.T. -0.01 min
Lab File: VL033918.D
Acq: 14 Jun 2019 4:48

Tgt Ion:	43	Resp:	7407
Ion	Ratio	Lower	Upper
43	100		
45	45.0	7.9	11.9#
61	30.5	7.8	11.6#
70	0.0	5.8	8.6#

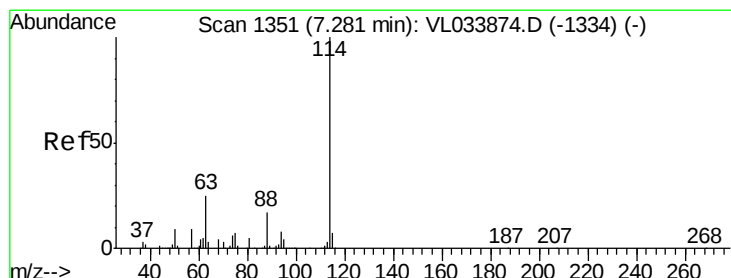
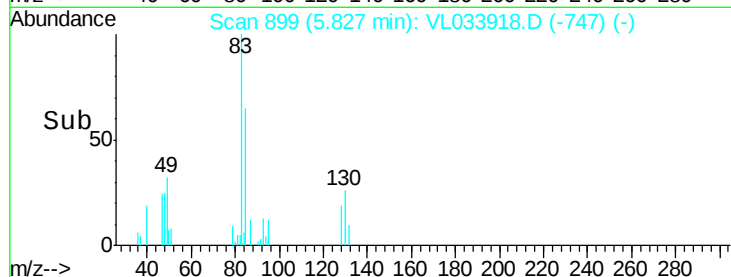
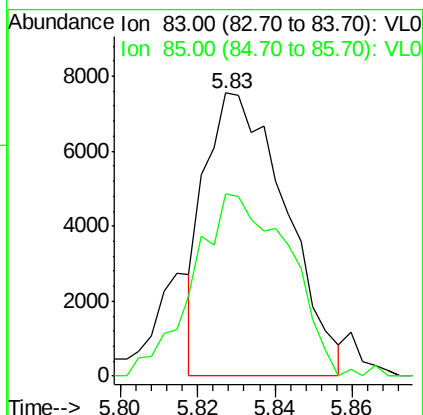
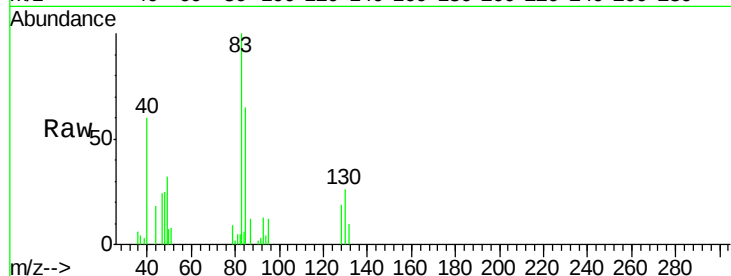




#29
Chloroform
Concen: 0.071 ppbv
RT: 5.83 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL033918.D
Acq: 14 Jun 2019 4:48

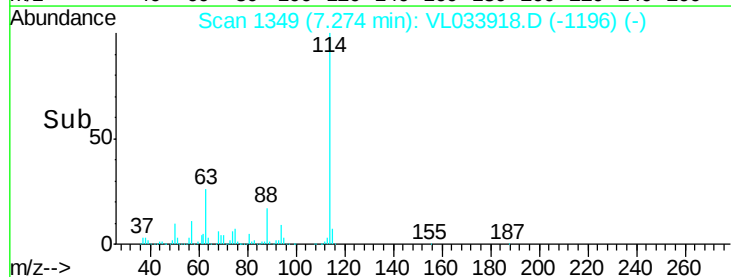
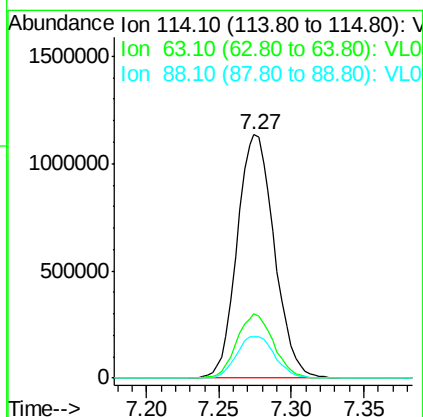
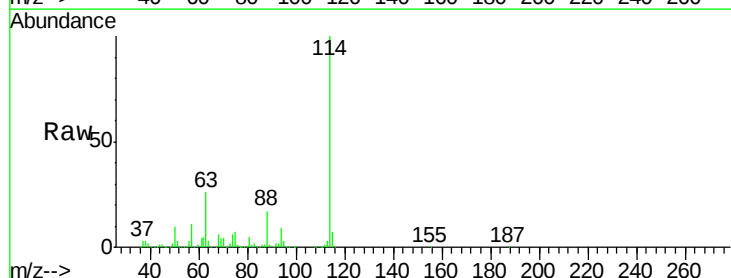
Instrument :
MSVOA_L
ClientSampleId :

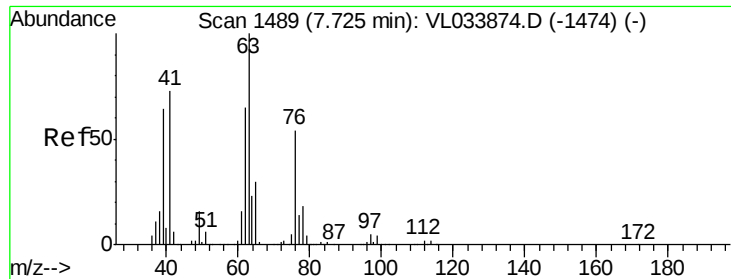
Tot Ion: 83 Resp: 10931
Ion Ratio Lower Upper
83 100
85 72.4 50.5 75.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.27 min Scan# 1349
Delta R.T. -0.01 min
Lab File: VL033918.D
Acq: 14 Jun 2019 4:48

Tgt Ion: 114 Resp: 2020801
Ion Ratio Lower Upper
114 100
63 26.2 21.1 31.7
88 17.7 14.2 21.4

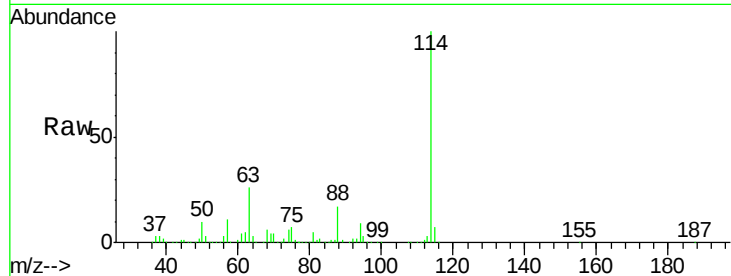




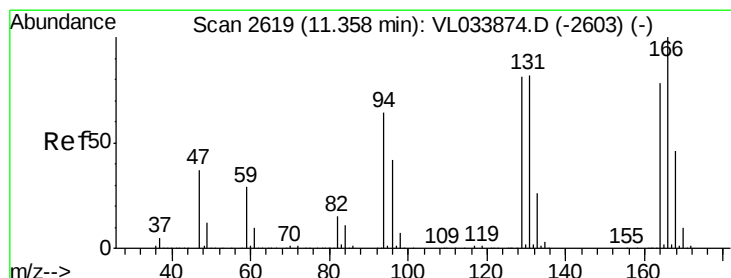
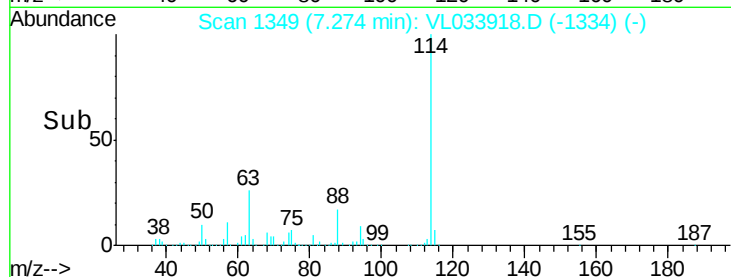
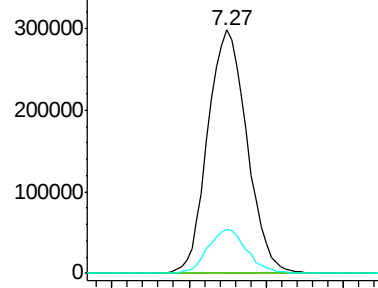
#39
 1,2-Dichloropropane
 Concen: 8.831 ppbv
 RT: 7.27 min Scan# 1349
 Delta R.T. -0.45 min
 Lab File: VL033918.D
 Acq: 14 Jun 2019 4:48

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 63 Resp: 526126
 Ion Ratio Lower Upper
 63 100
 41 0.1 58.7 88.1#
 62 18.1 51.9 77.9#

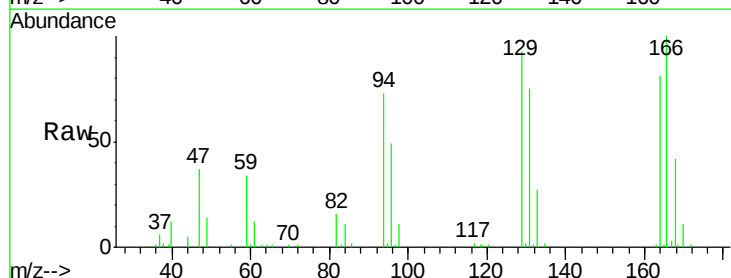


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

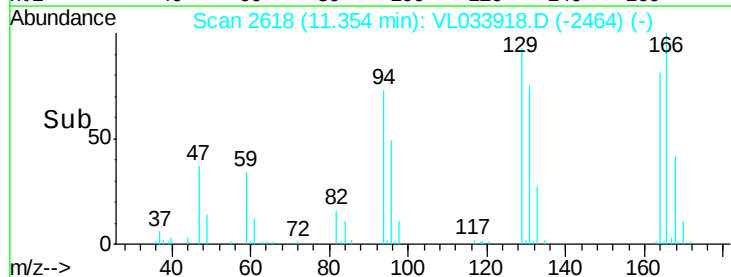
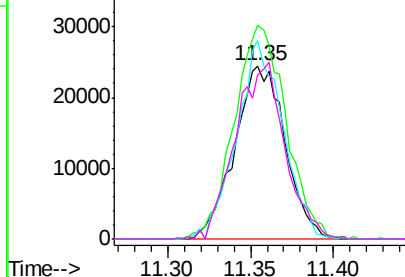


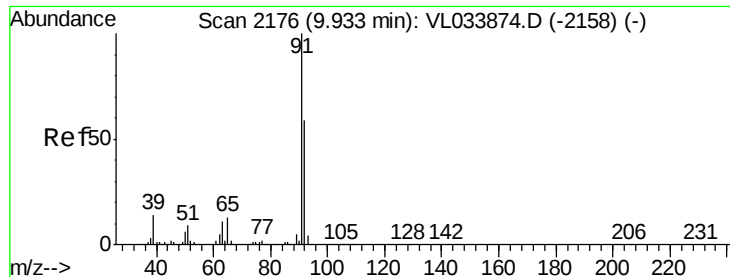
#52
 Tetrachloroethene
 Concen: 0.955 ppbv
 RT: 11.35 min Scan# 2618
 Delta R.T. -0.00 min
 Lab File: VL033918.D
 Acq: 14 Jun 2019 4:48

Tgt Ion:164 Resp: 51849
 Ion Ratio Lower Upper
 164 100
 166 122.2 103.1 154.7
 129 117.3 83.9 125.9
 131 93.4 85.1 127.7



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 165.90 (165.60 to 166.60): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.139 ppbv

RT: 9.92 min Scan# 2173

Delta R.T. -0.01 min

Lab File: VL033918.D

Acq: 14 Jun 2019 4:48

Instrument :

MSVOA_L

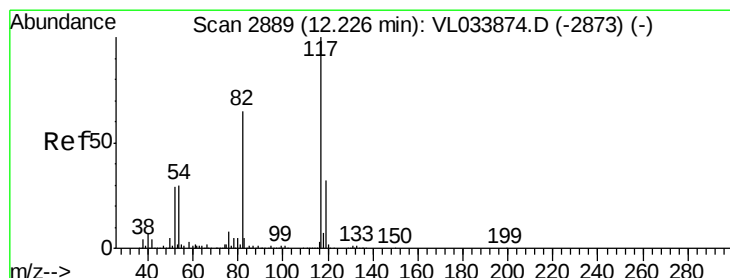
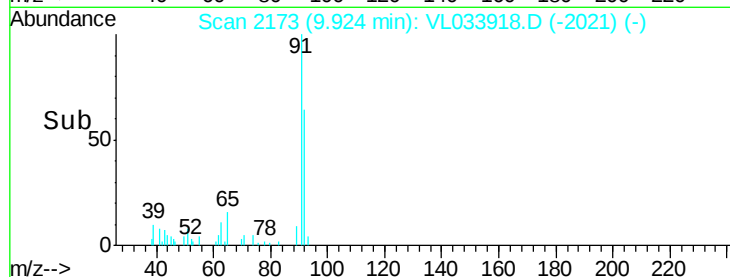
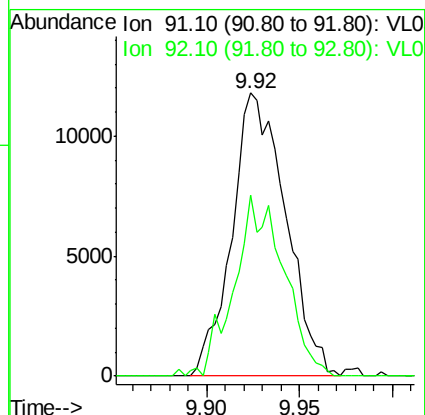
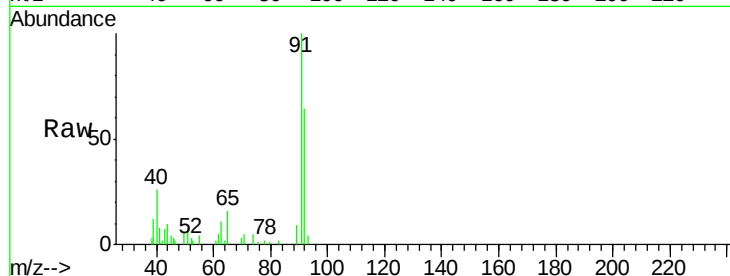
ClientSampleId :

Tot Ion: 91 Resp: 23783

Ion Ratio Lower Upper

91 100

92 58.5 47.0 70.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.22 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VL033918.D

Acq: 14 Jun 2019 4:48

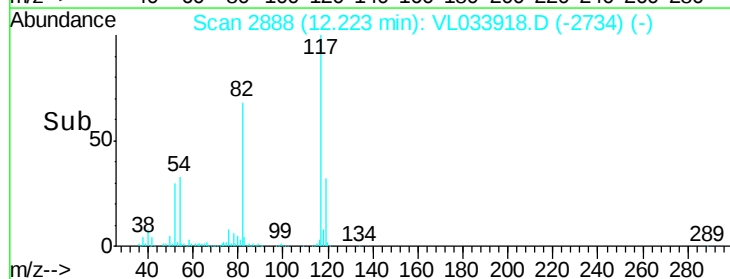
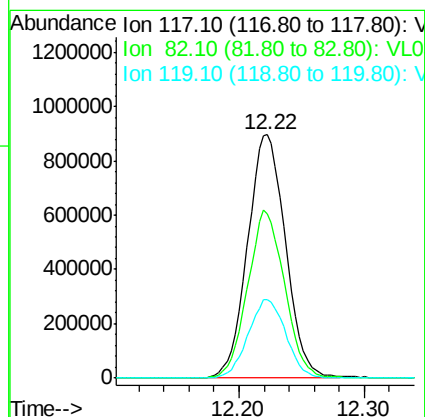
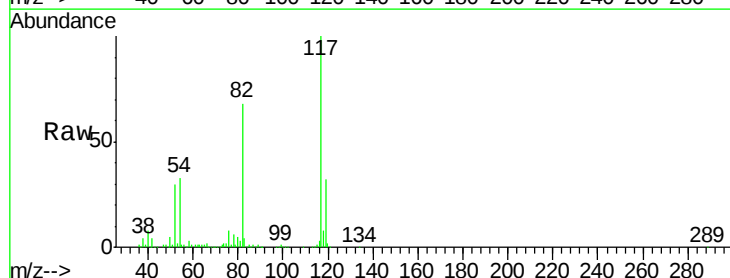
Tgt Ion: 117 Resp: 1882132

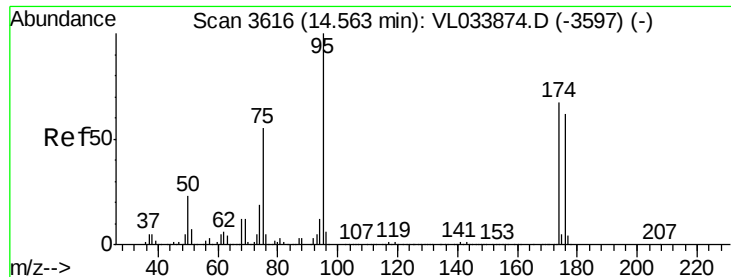
Ion Ratio Lower Upper

117 100

82 67.8 50.2 75.2

119 32.3 24.8 37.2





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.122 ppbv
 RT: 14.56 min Scan# 3615
 Delta R.T. -0.00 min
 Lab File: VL033918.D
 Acq: 14 Jun 2019 4:48

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 1564818
 Ion Ratio Lower Upper
 95 100
 174 66.1 54.0 81.0
 175 4.8 3.8 5.8

