

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120919\
 Data File : VL034481.D
 Acq On : 10 Dec 2019 2:06
 Operator : SY/AP
 Sample : K6181-01DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1A-1DL

Quant Time: Dec 10 07:14:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	949544	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1876826	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1885957	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1616252	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

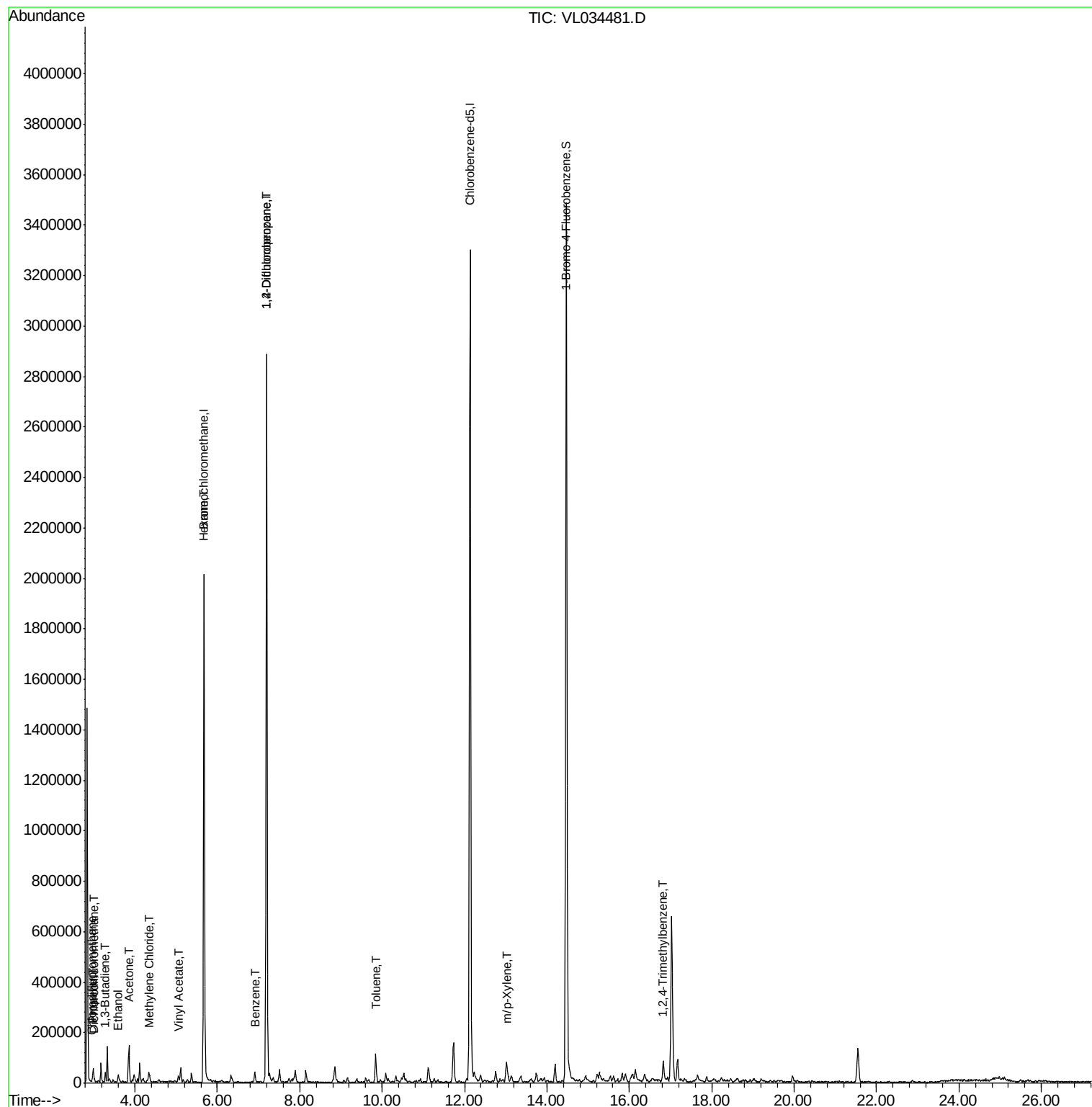
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	6133	0.036	ppbv #	80
3) Chlorodifluoromethane	2.95	51	6298	0.053	ppbv #	87
9) Propene	2.98	41	19587	0.372	ppbv	98
13) Ethanol	3.58	45	8449	0.577	ppbv #	40
15) Acetone	3.84	43	100192	0.737	ppbv #	89
16) 1,3-Butadiene	3.29	39	4308	0.073	ppbv #	43
20) Methylene Chloride	4.34	84	10932	0.227	ppbv	91
23) Vinyl Acetate	5.06	43	9200	0.052	ppbv #	1
26) Hexane	5.69	57	7662	0.073	ppbv #	1
36) Benzene	6.91	78	17970	0.096	ppbv	99
39) 1,2-Dichloropropane	7.20	63	545796	7.551	ppbv #	24
53) Toluene	9.84	91	46308	0.217	ppbv #	62
59) m/p-Xylene	13.04	91	18077	0.071	ppbv #	33
74) 1,2,4-Trimethylbenzene	16.83	105	26475	0.088	ppbv #	63

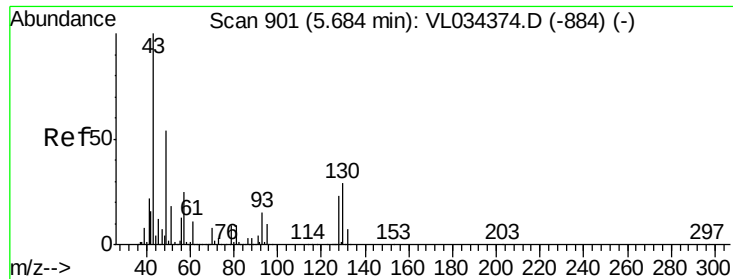
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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1A-1DL

Quant Time: Dec 10 07:14:32 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL034481.D

Acq: 10 Dec 2019 2:06

Instrument :

MSVOA_L

ClientSampleId :

1A-1DL

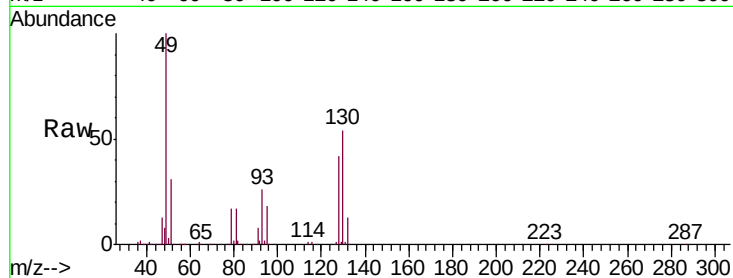
Tgt Ion: 49 Resp: 949544

Ion Ratio Lower Upper

49 100

128 43.8 21.8 65.3

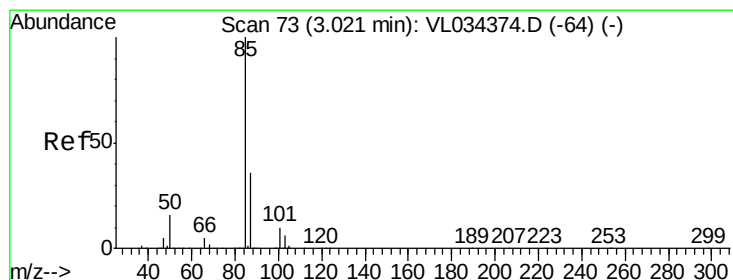
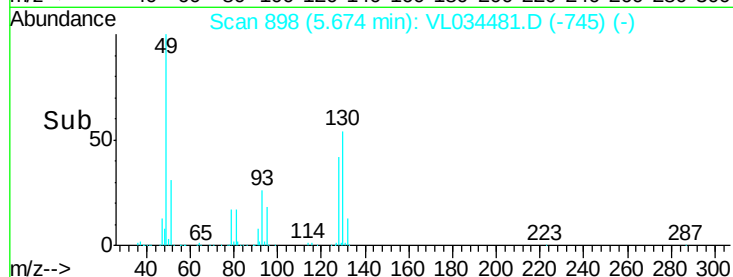
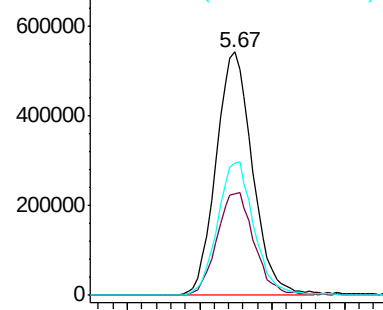
130 55.3 28.0 84.0



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: 0.036 ppbv

RT: 3.02 min Scan# 71

Delta R.T. -0.01 min

Lab File: VL034481.D

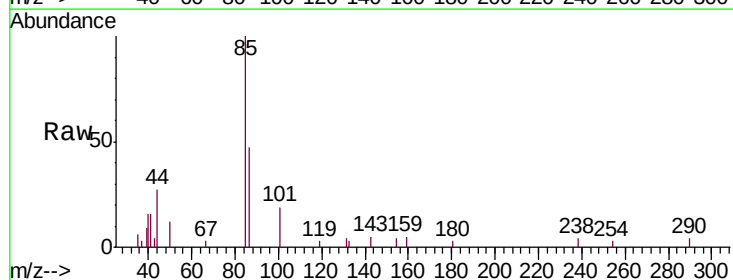
Acq: 10 Dec 2019 2:06

Tgt Ion: 85 Resp: 6133

Ion Ratio Lower Upper

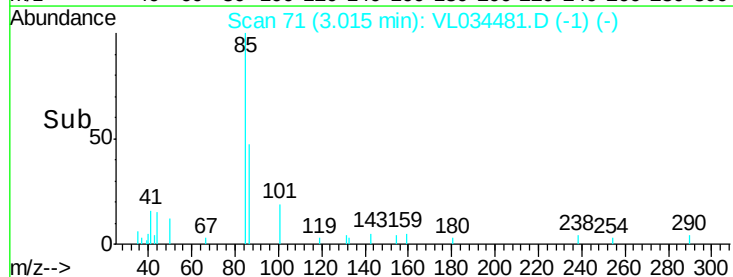
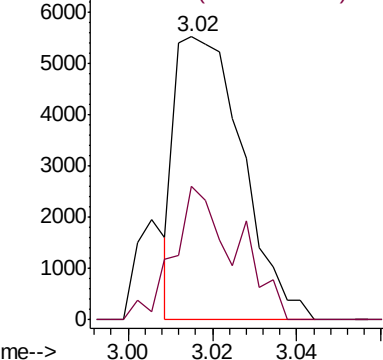
85 100

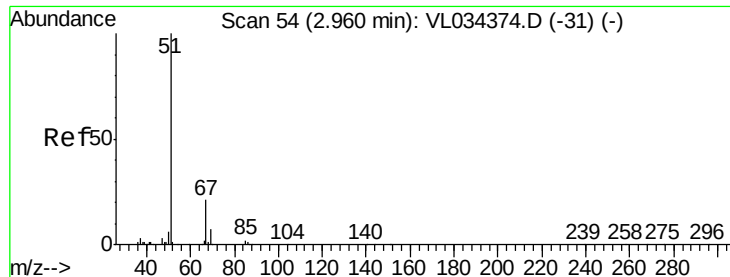
87 47.3 28.5 42.7#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

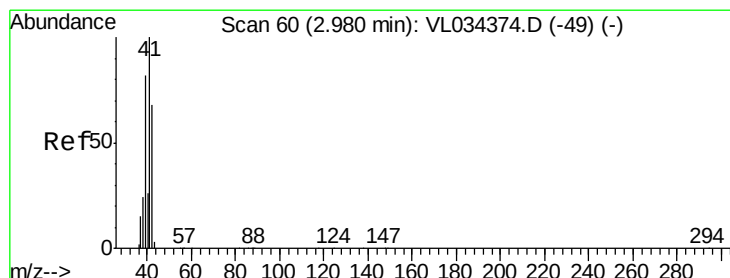
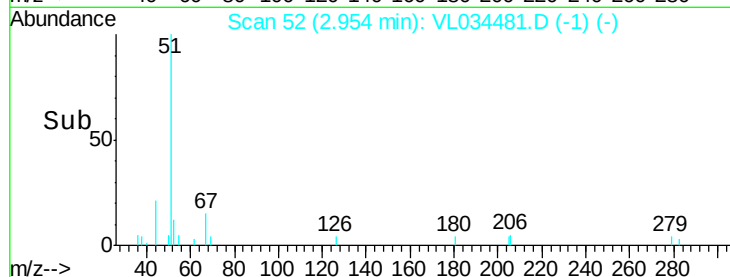
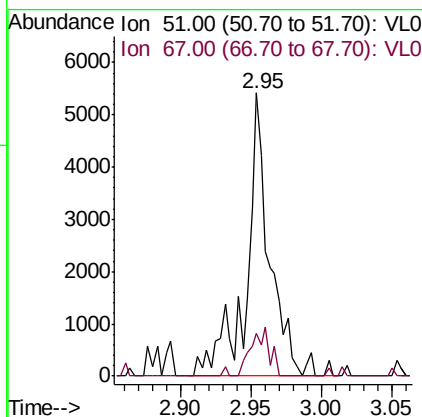
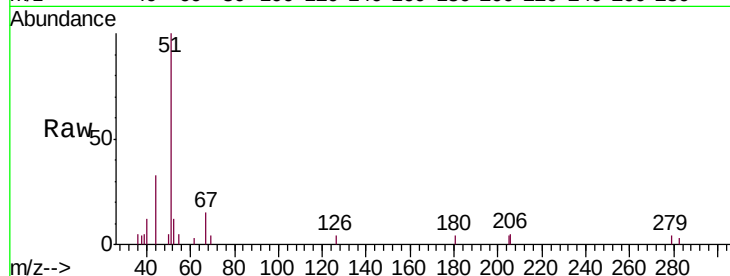




#3
 Chlorodifluoromethane
 Concen: 0.053 ppbv
 RT: 2.95 min Scan# 52
 Delta R.T. -0.01 min
 Lab File: VL034481.D
 Acq: 10 Dec 2019 2:06

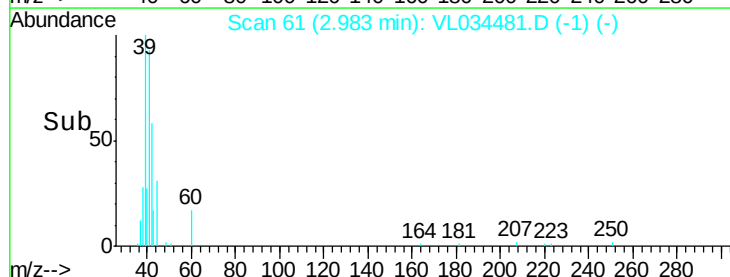
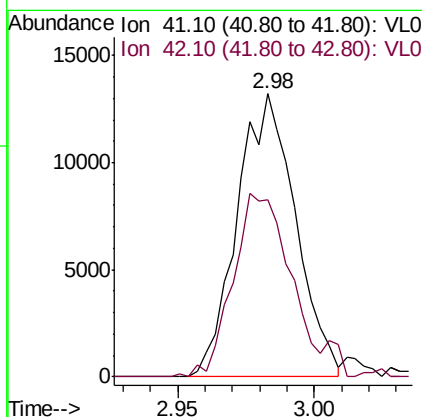
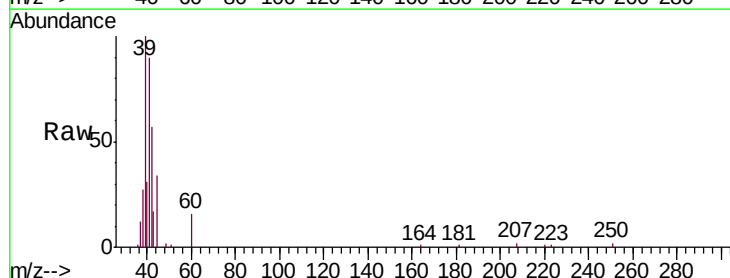
Instrument :
 MSVOA_L
 ClientSampleId :
 1A-1DL

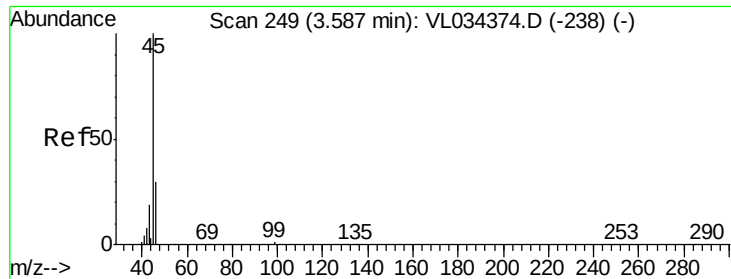
Tgt Ion: 51 Resp: 6298
 Ion Ratio Lower Upper
 51 100
 67 14.2 16.2 24.2#



#9
 Propene
 Concen: 0.372 ppbv
 RT: 2.98 min Scan# 61
 Delta R.T. 0.00 min
 Lab File: VL034481.D
 Acq: 10 Dec 2019 2:06

Tgt Ion: 41 Resp: 19587
 Ion Ratio Lower Upper
 41 100
 42 66.9 54.6 82.0

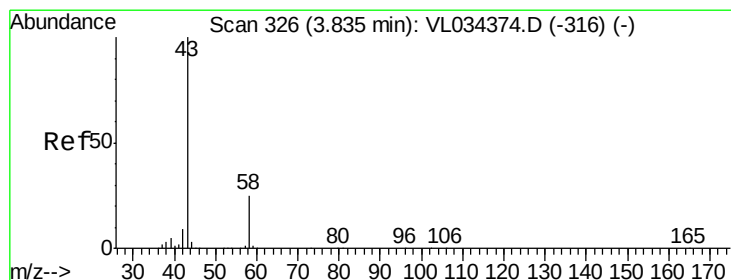
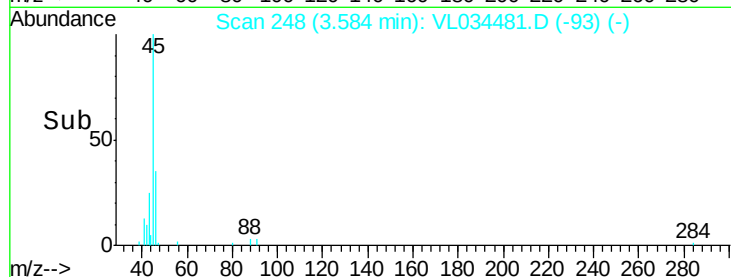
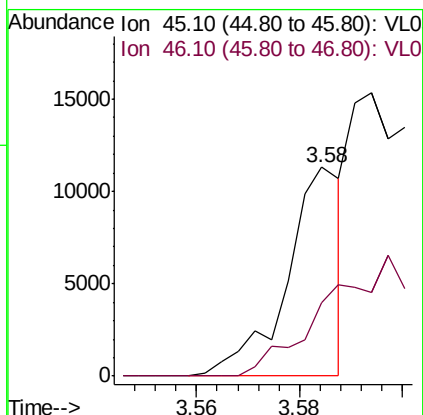
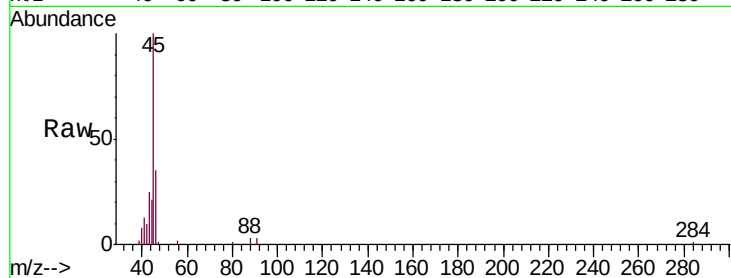




#13
Ethanol
Concen: 0.577 ppbv
RT: 3.58 min Scan# 248
Delta R.T. -0.00 min
Lab File: VL034481.D
Acq: 10 Dec 2019 2:06

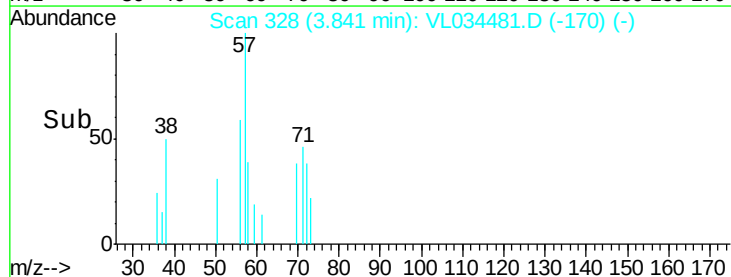
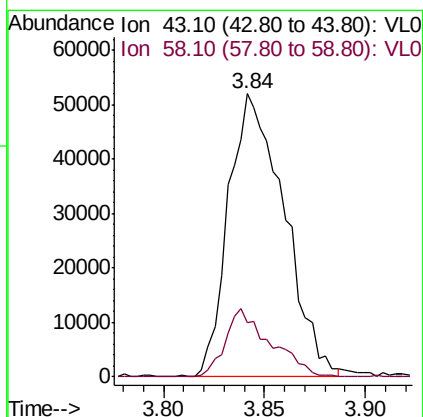
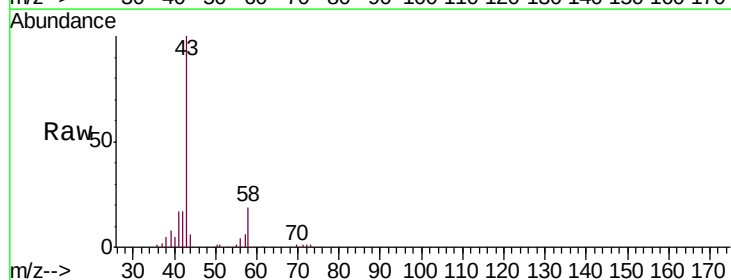
Instrument :
MSVOA_L
ClientSampleId :
1A-1DL

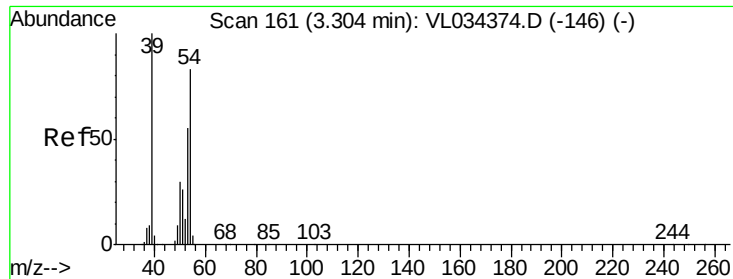
Tgt Ion: 45 Resp: 8449
Ion Ratio Lower Upper
45 100
46 0.0 13.8 55.4#



#15
Acetone
Concen: 0.737 ppbv
RT: 3.84 min Scan# 328
Delta R.T. 0.01 min
Lab File: VL034481.D
Acq: 10 Dec 2019 2:06

Tgt Ion: 43 Resp: 100192
Ion Ratio Lower Upper
43 100
58 19.8 20.2 30.4#

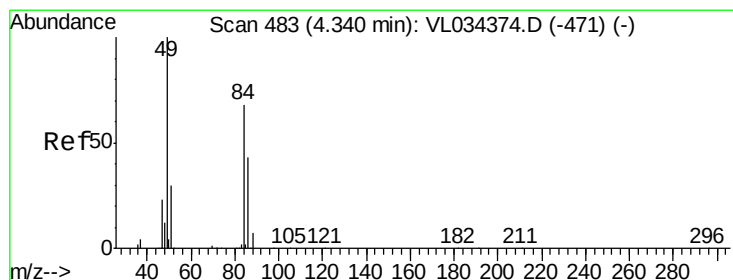
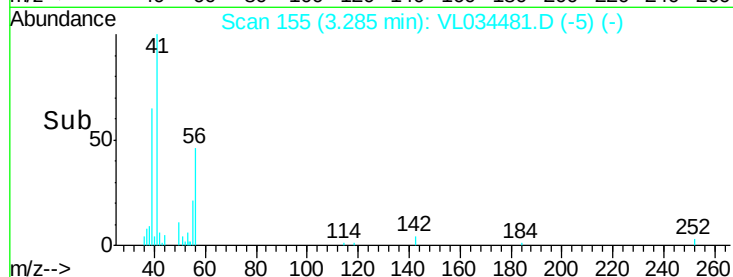
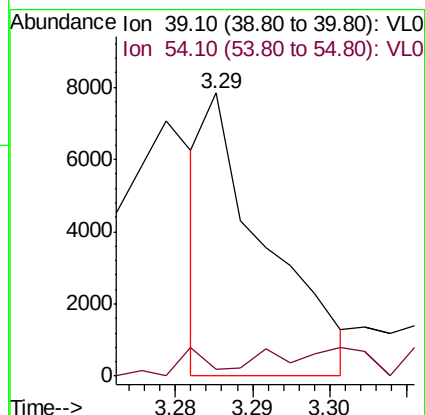
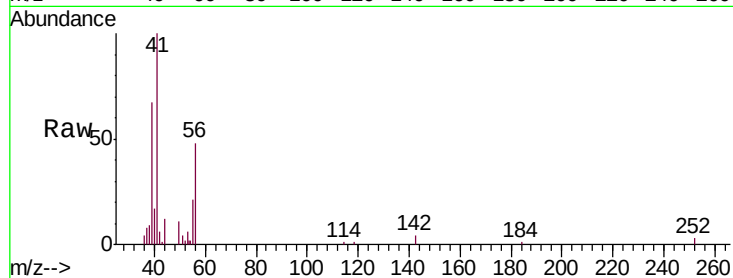




#16
1,3-Butadiene
Concen: 0.073 ppbv
RT: 3.29 min Scan# 155
Delta R.T. -0.02 min
Lab File: VL034481.D
Acq: 10 Dec 2019 2:06

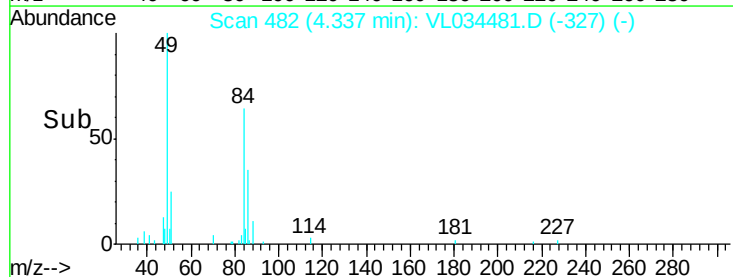
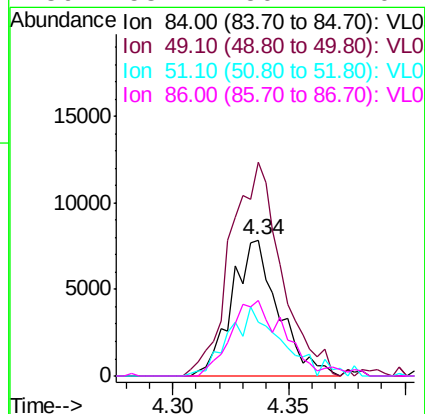
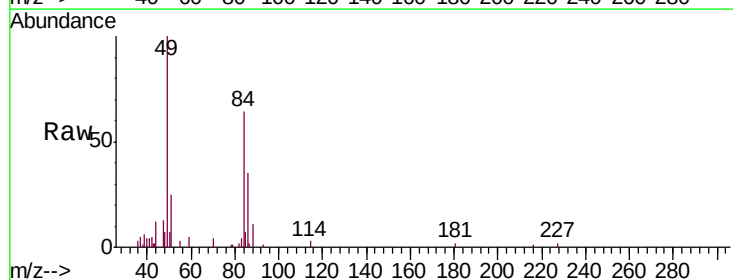
Instrument :
MSVOA_L
ClientSampleId :
1A-1DL

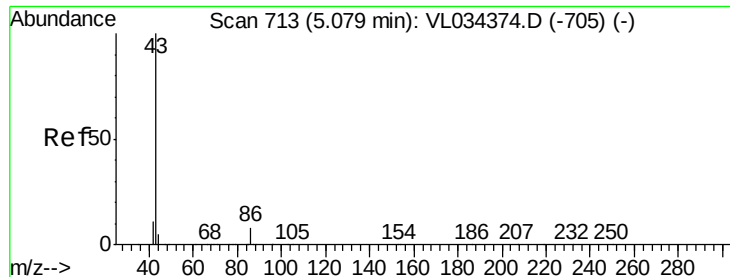
Tgt Ion: 39 Resp: 4308
Ion Ratio Lower Upper
39 100
54 30.3 64.7 97.1#



#20
Methylene Chloride
Concen: 0.227 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL034481.D
Acq: 10 Dec 2019 2:06

Tgt Ion: 84 Resp: 10932
Ion Ratio Lower Upper
84 100
49 157.4 116.8 175.2
51 37.4 35.6 53.4
86 58.2 50.7 76.1

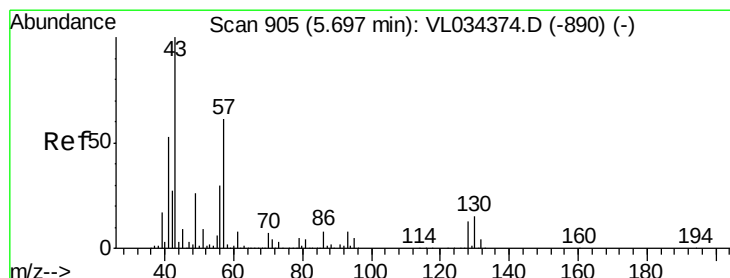
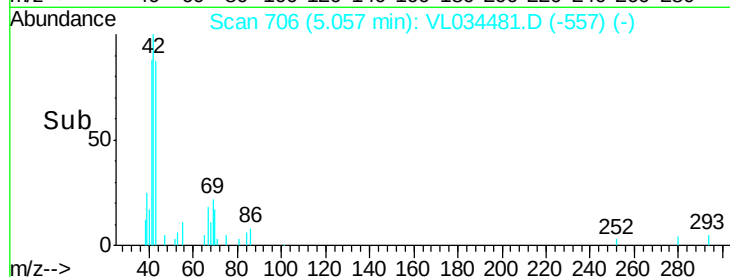
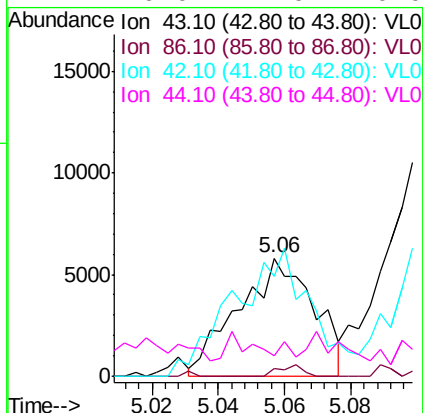
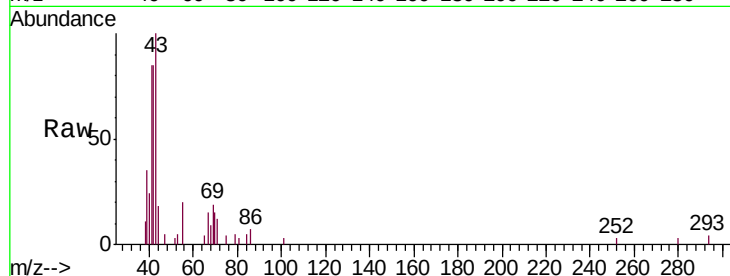




#23
 Vinyl Acetate
 Concen: 0.052 ppbv
 RT: 5.06 min Scan# 706
 Delta R.T. -0.02 min
 Lab File: VL034481.D
 Acq: 10 Dec 2019 2:06

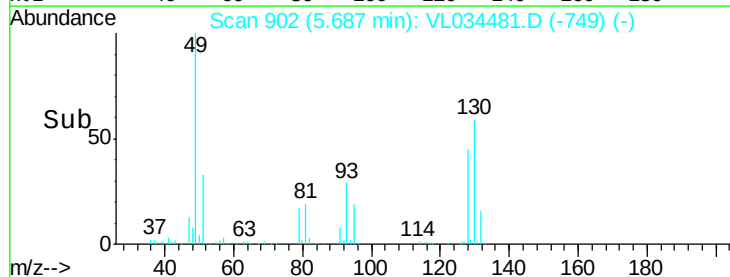
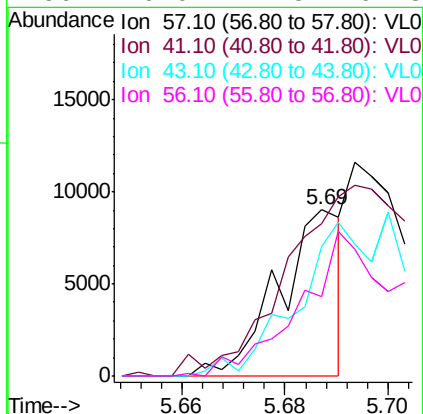
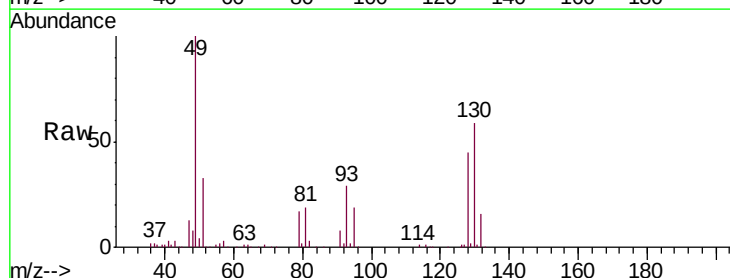
Instrument :
 MSVOA_L
 ClientSampleId :
 1A-1DL

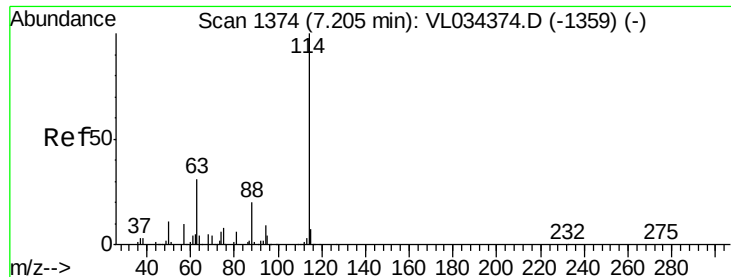
Tgt Ion:	43	Resp:	9200
Ion	Ratio	Lower	Upper
43	100		
86	9.6	5.8	8.6#
42	105.7	8.9	13.3#
44	0.0	4.0	6.0#



#26
 Hexane
 Concen: 0.073 ppbv
 RT: 5.69 min Scan# 902
 Delta R.T. -0.01 min
 Lab File: VL034481.D
 Acq: 10 Dec 2019 2:06

Tgt Ion:	57	Resp:	7662
Ion	Ratio	Lower	Upper
57	100		
41	0.0	75.0	112.4#
43	0.0	186.6	279.8#
56	0.0	41.5	62.3#

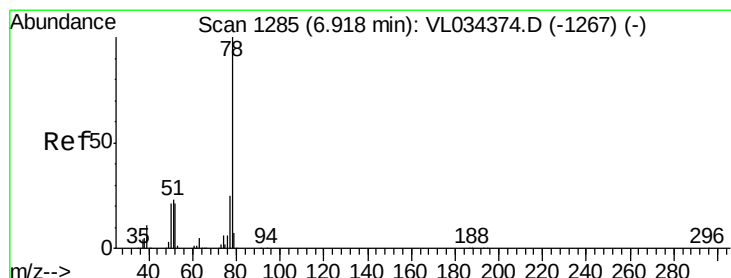
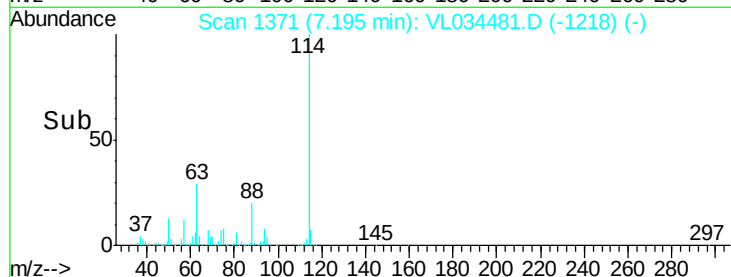
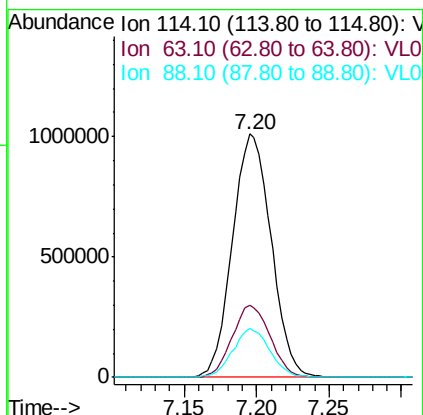
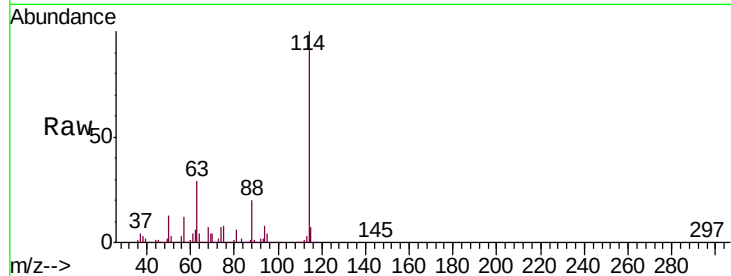




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1371
 Delta R.T. -0.01 min
 Lab File: VL034481.D
 Acq: 10 Dec 2019 2:06

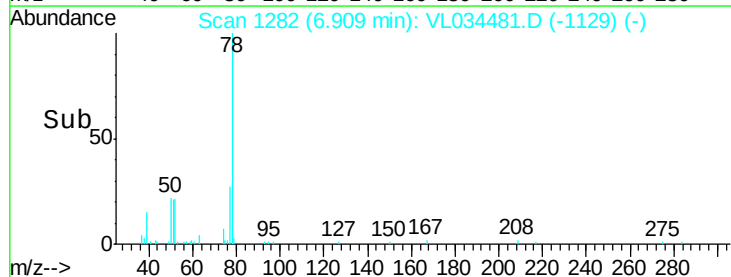
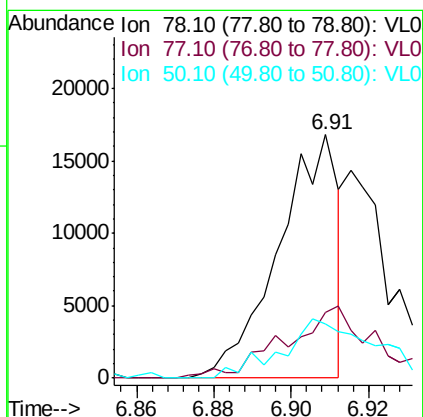
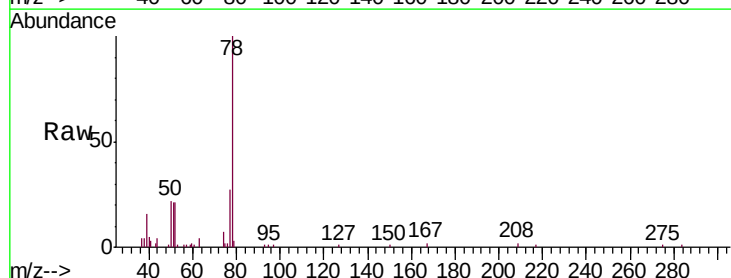
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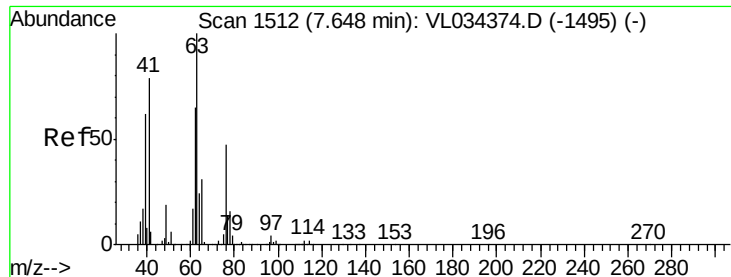
Tgt Ion:114 Resp: 1876826
 Ion Ratio Lower Upper
 114 100
 63 29.2 24.2 36.4
 88 19.3 15.9 23.9



#36
 Benzene
 Concen: 0.096 ppbv
 RT: 6.91 min Scan# 1282
 Delta R.T. -0.01 min
 Lab File: VL034481.D
 Acq: 10 Dec 2019 2:06

Tgt Ion: 78 Resp: 17970
 Ion Ratio Lower Upper
 78 100
 77 25.8 20.2 30.4
 50 22.1 17.1 25.7

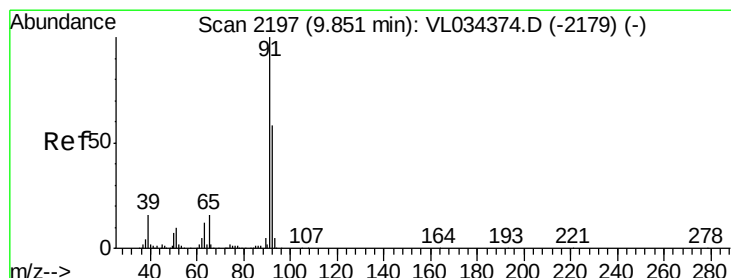
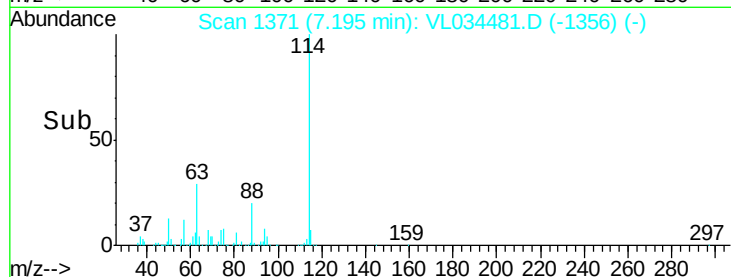
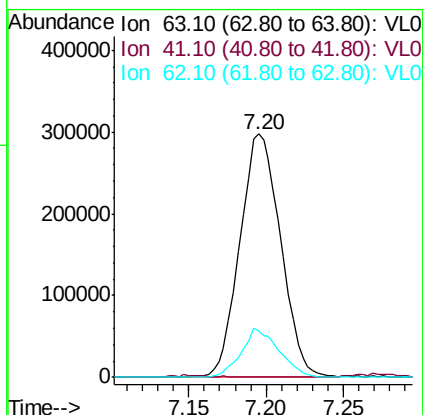
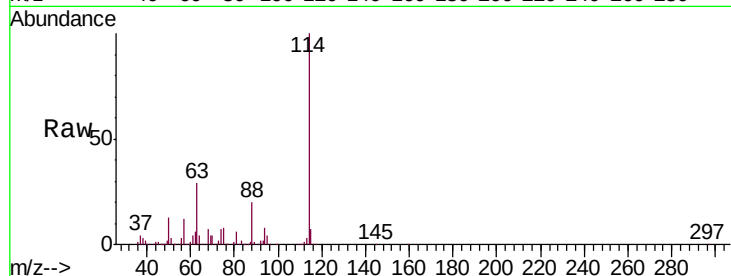




#39
 1,2-Dichloropropane
 Concen: 7.551 ppbv
 RT: 7.20 min Scan# 1371
 Delta R.T. -0.45 min
 Lab File: VL034481.D
 Acq: 10 Dec 2019 2:06

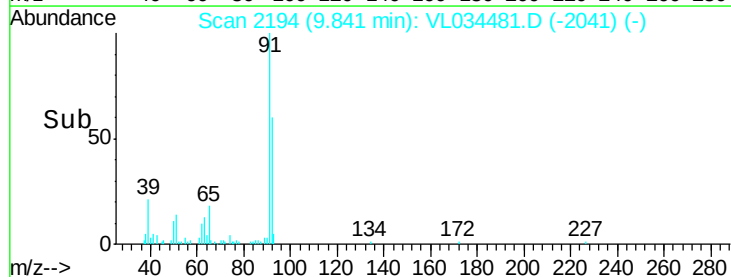
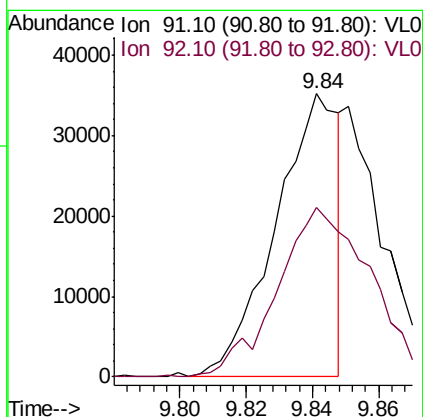
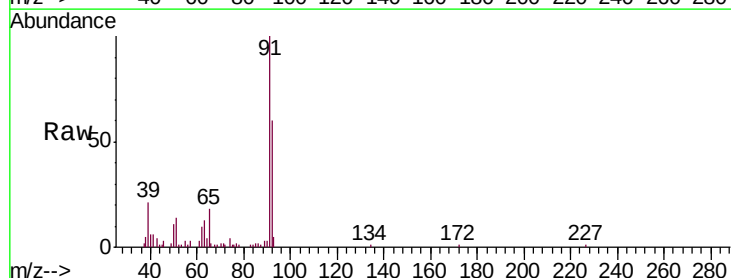
Instrument :
 MSVOA_L
 ClientSampleId :
 1A-1DL

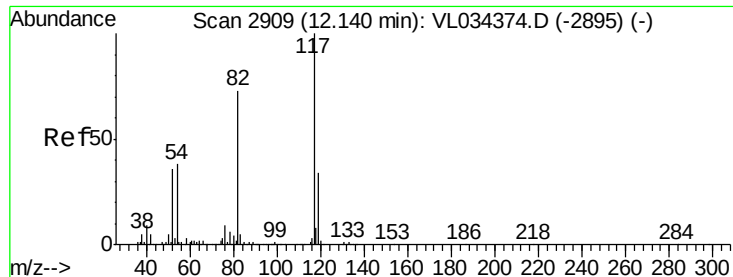
Tgt Ion: 63 Resp: 545796
 Ion Ratio Lower Upper
 63 100
 41 0.0 63.1 94.7#
 62 19.0 52.3 78.5#



#53
 Toluene
 Concen: 0.217 ppbv
 RT: 9.84 min Scan# 2194
 Delta R.T. -0.01 min
 Lab File: VL034481.D
 Acq: 10 Dec 2019 2:06

Tgt Ion: 91 Resp: 46308
 Ion Ratio Lower Upper
 91 100
 92 88.9 47.9 71.9#

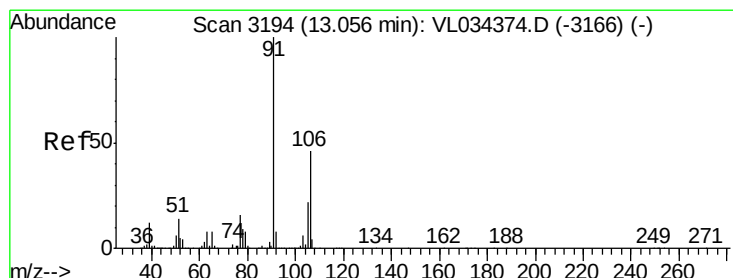
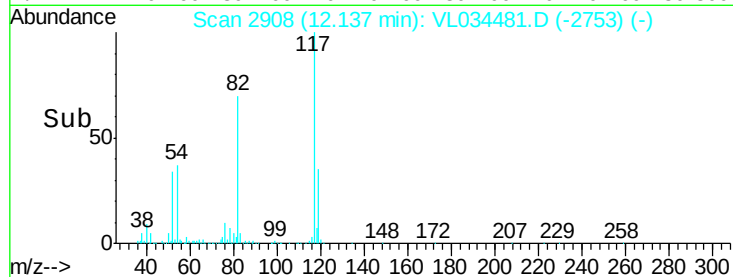
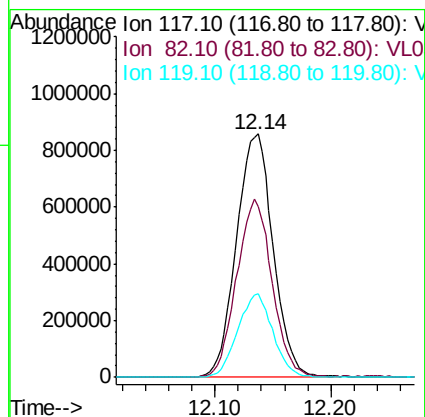
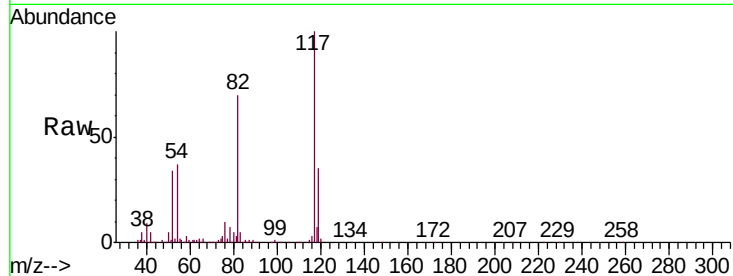




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2908
Delta R.T. -0.00 min
Lab File: VL034481.D
Acq: 10 Dec 2019 2:06

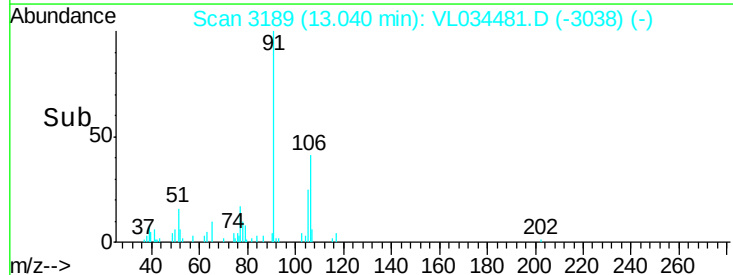
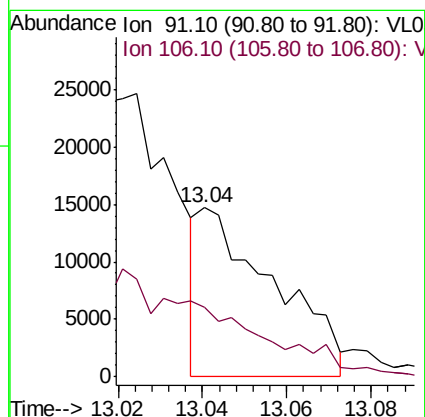
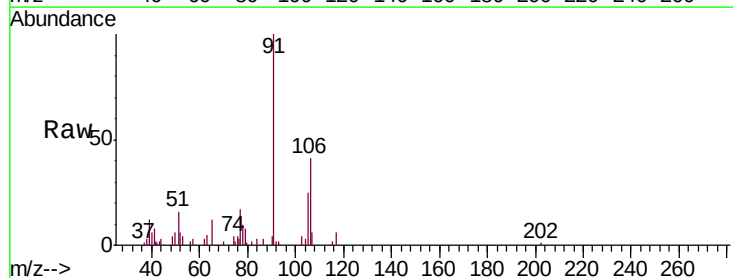
Instrument :
MSVOA_L
ClientSampleId :
1A-1DL

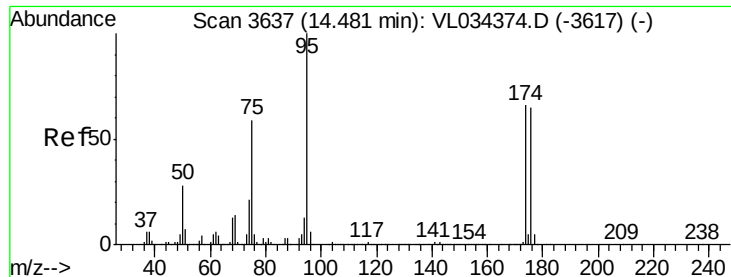
Tgt Ion:117 Resp: 1885957
Ion Ratio Lower Upper
117 100
82 70.9 57.5 86.3
119 32.9 25.4 38.2



#59
m/p-Xylene
Concen: 0.071 ppbv
RT: 13.04 min Scan# 3189
Delta R.T. -0.02 min
Lab File: VL034481.D
Acq: 10 Dec 2019 2:06

Tgt Ion: 91 Resp: 18077
Ion Ratio Lower Upper
91 100
106 0.0 34.6 51.8#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.187 ppbv

RT: 14.47 min Scan# 3634

Delta R.T. -0.01 min

Lab File: VL034481.D

Acq: 10 Dec 2019 2:06

Instrument :

MSVOA_L

ClientSampleId :

1A-1DL

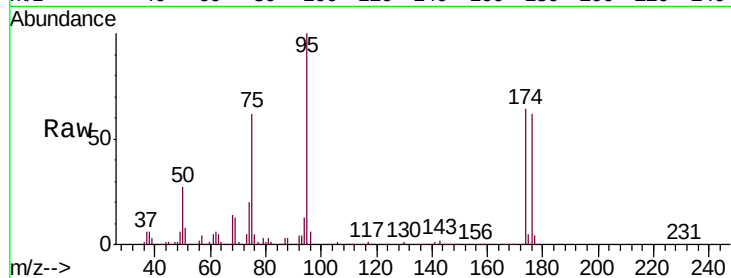
Tgt Ion: 95 Resp: 1616252

Ion Ratio Lower Upper

95 100

174 64.7 52.2 78.2

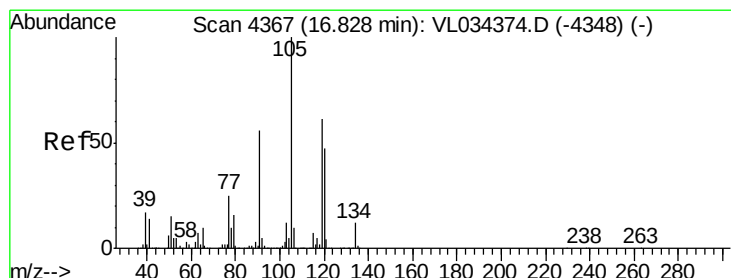
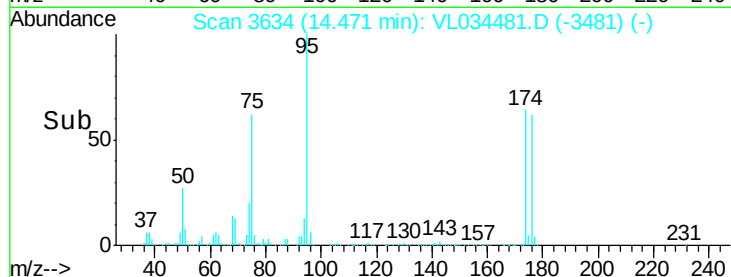
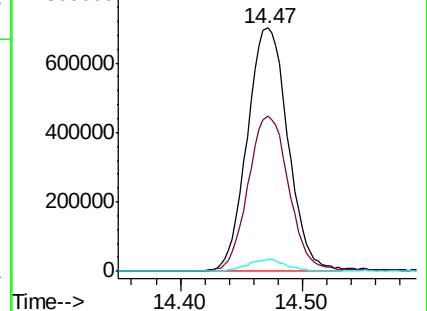
175 4.8 3.8 5.8



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



#74

1,2,4-Trimethylbenzene

Concen: 0.088 ppbv

RT: 16.83 min Scan# 4367

Delta R.T. 0.00 min

Lab File: VL034481.D

Acq: 10 Dec 2019 2:06

Tgt Ion: 105 Resp: 26475

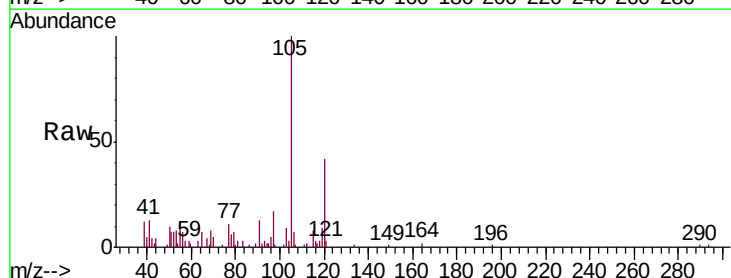
Ion Ratio Lower Upper

105 100

120 41.6 37.4 56.0

91 11.1 46.3 69.5#

77 9.4 20.6 30.8#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

