

Data File : VL034796.D
Acq On : 5 Mar 2020 15:09
Operator : SY/AP
Sample : L1704-06DL2 20X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-1-4DL

Quant Time: Mar 06 03:42:58 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030420AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Mar 04 06:36:39 2020
QLast Update : Wed Mar 04 06:36:39 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	998432	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.18	114	2048777	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.11	117	2111077	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1835640	10.43	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.30%

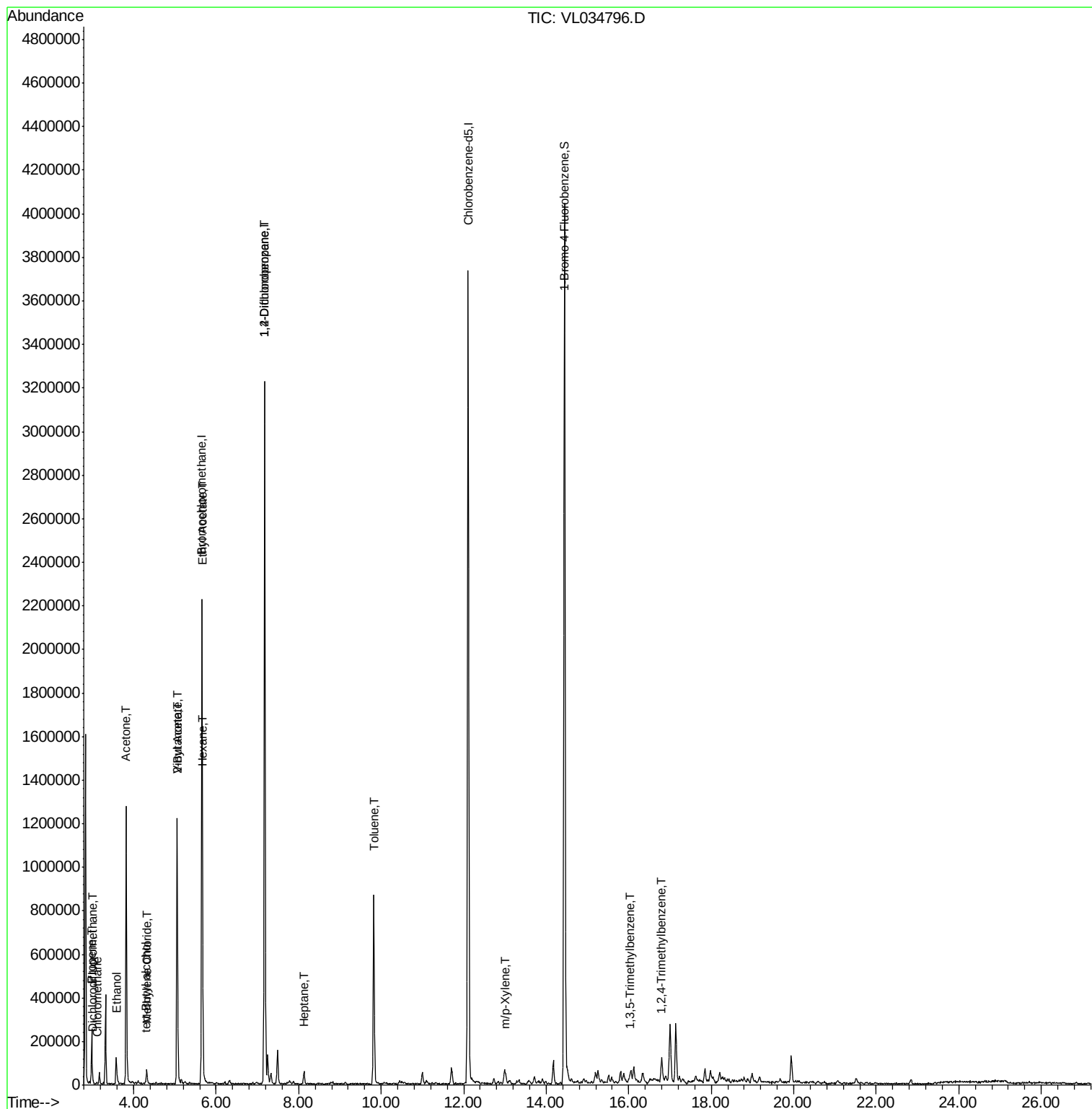
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.01	85	5832	0.036	ppbv #	81
4) Chloromethane	3.11	50	4629	0.076	ppbv	91
9) Propene	2.98	41	48227	1.077	ppbv #	70
10) Heptane	8.12	43	5637	0.050	ppbv #	27
13) Ethanol	3.57	45	117433	7.655	ppbv	97
15) Acetone	3.82	43	1210003	10.120	ppbv	100
17) tert-Butyl alcohol	4.29	59	3612	0.038	ppbv #	71
20) Methylene Chloride	4.32	84	12750	0.299	ppbv #	84
23) Vinyl Acetate	5.05	43	1474398	9.196	ppbv	98
25) Ethyl Acetate	5.67	43	11835	0.057	ppbv #	80
26) Hexane	5.68	57	13956	0.155	ppbv #	59
34) 2-Butanone	5.05	43	1474398	11.062	ppbv #	54
39) 1,2-Dichloropropane	7.18	63	592342	8.384	ppbv #	25
53) Toluene	9.82	91	577370	3.116	ppbv	96
59) m/p-Xylene	13.02	91	8293	0.037	ppbv #	31
73) 1,3,5-Trimethylbenzene	16.02	105	7984	0.033	ppbv	98
74) 1,2,4-Trimethylbenzene	16.79	105	21305	0.081	ppbv #	67

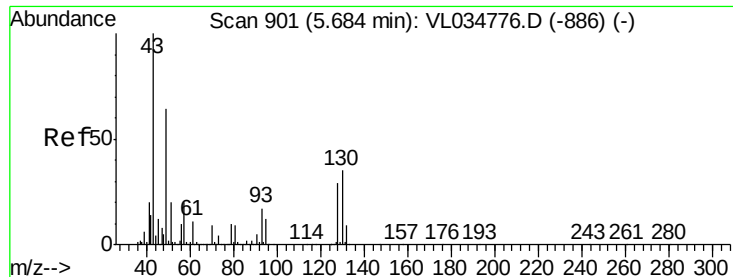
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar 04 06:36:39 2020
QLast Update : Wed Mar 04 06:36:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.03 min

Lab File: VL034796.D

Acq: 5 Mar 2020 15:09

Instrument :

MSVOA_L

ClientSampleId :

IA-1-4DL

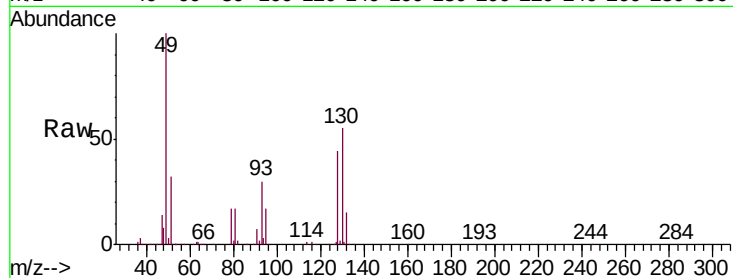
Tgt Ion: 49 Resp: 998432

Ion Ratio Lower Upper

49 100

128 45.1 21.6 64.6

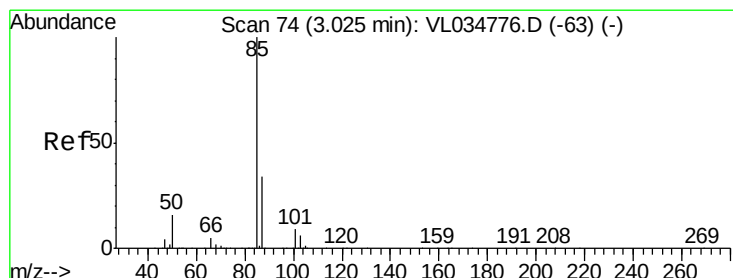
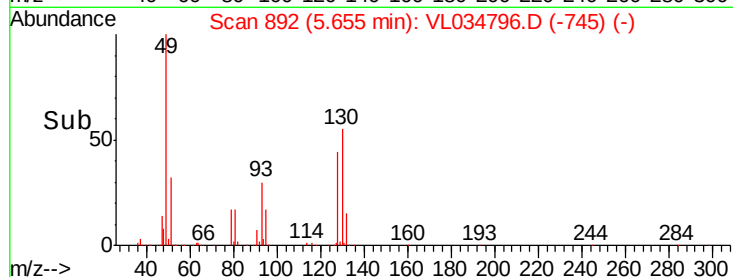
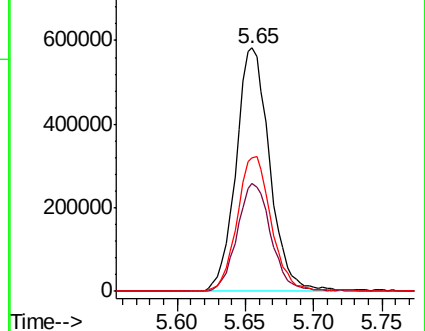
130 56.4 27.4 82.2



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: 0.036 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.02 min

Lab File: VL034796.D

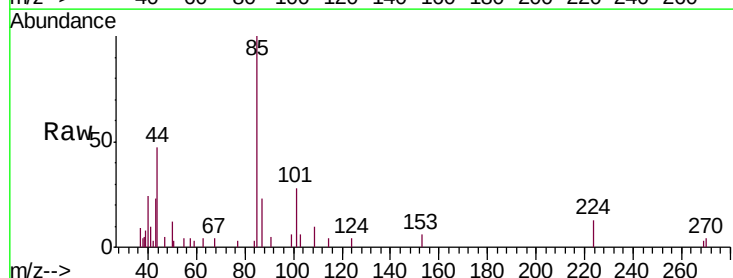
Acq: 5 Mar 2020 15:09

Tgt Ion: 85 Resp: 5832

Ion Ratio Lower Upper

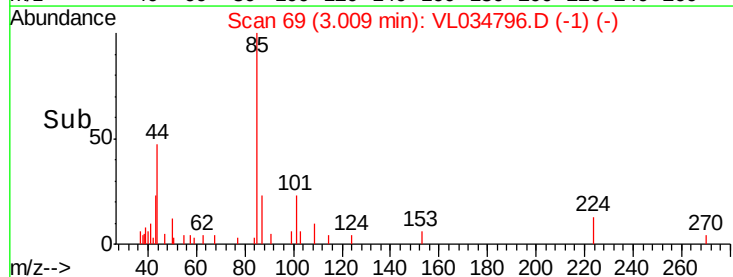
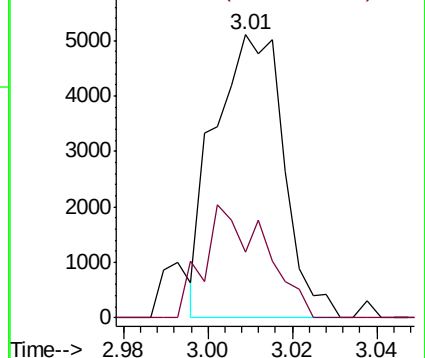
85 100

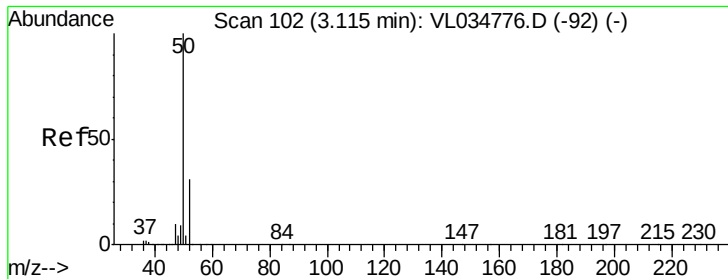
87 23.4 27.2 40.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.076 ppbv

RT: 3.11 min Scan# 99

Delta R.T. -0.01 min

Lab File: VL034796.D

Acq: 5 Mar 2020 15:09

Instrument :

MSVOA_L

ClientSampleId :

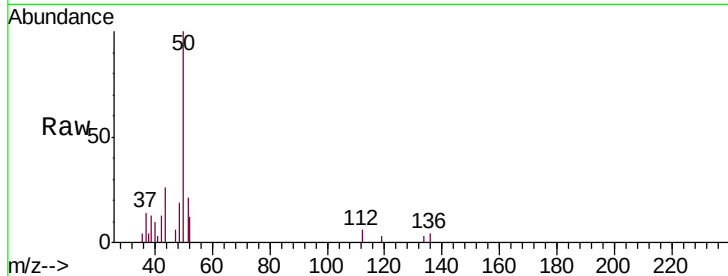
IA-1-4DL

Tgt Ion: 50 Resp: 4629

Ion Ratio Lower Upper

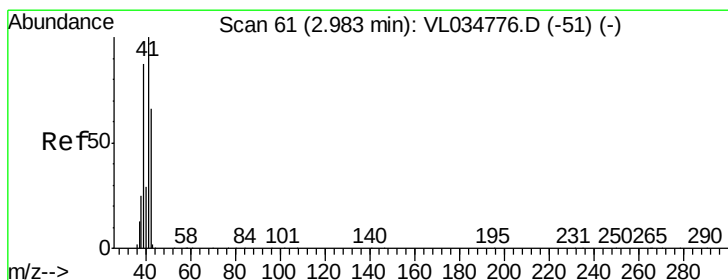
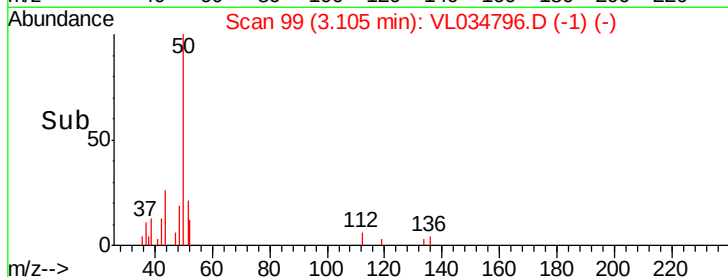
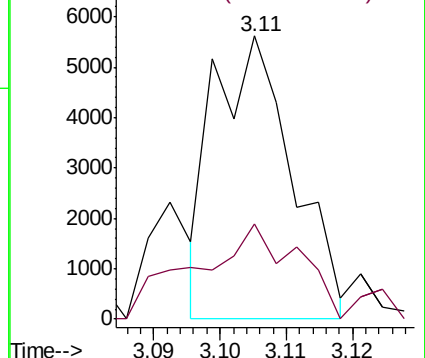
50 100

52 36.3 25.0 37.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 1.077 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.00 min

Lab File: VL034796.D

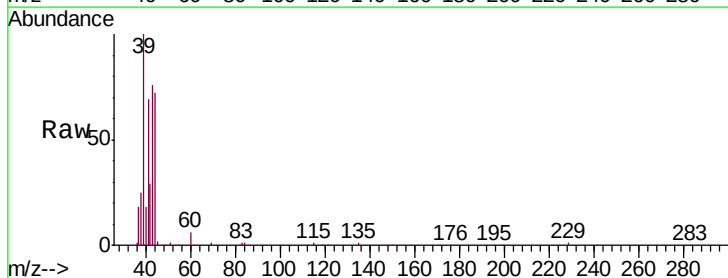
Acq: 5 Mar 2020 15:09

Tgt Ion: 41 Resp: 48227

Ion Ratio Lower Upper

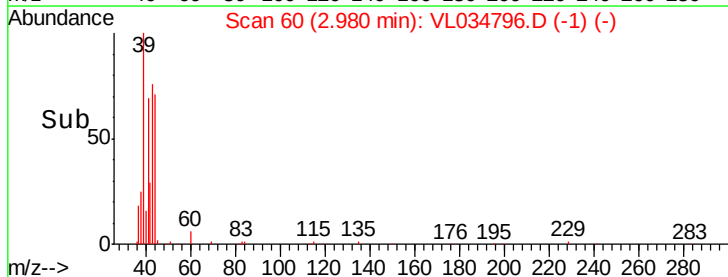
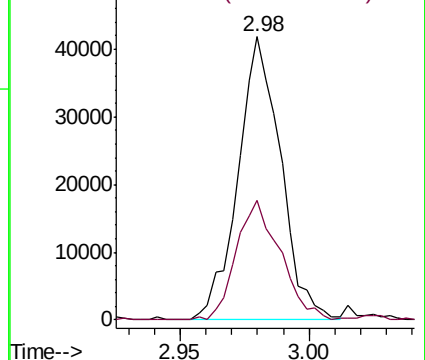
41 100

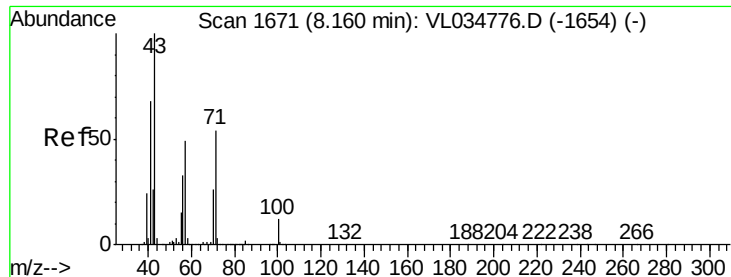
42 44.7 55.6 83.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

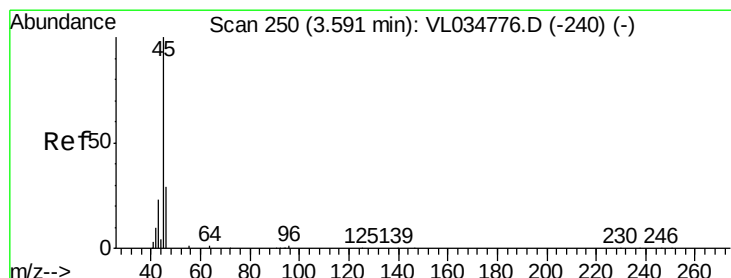
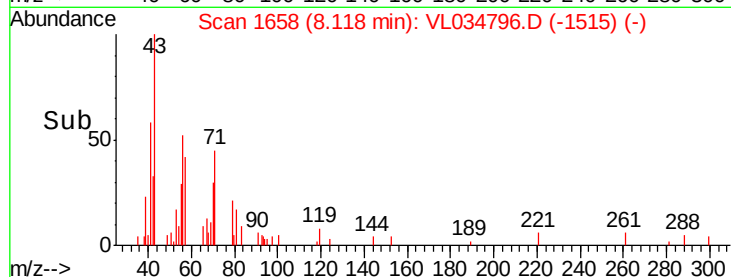
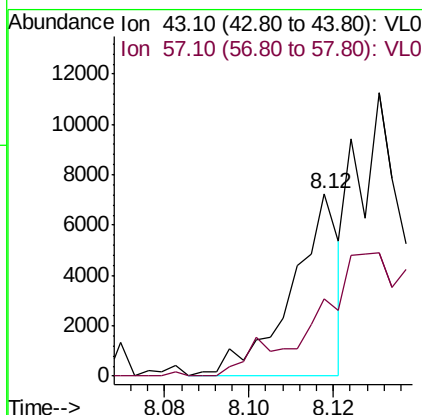
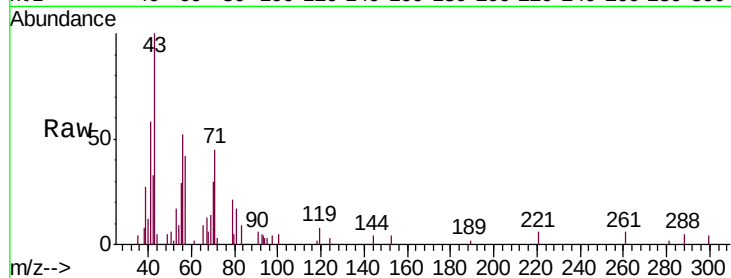




#10
Heptane
Concen: 0.050 ppbv
RT: 8.12 min Scan# 1658
Delta R.T. -0.04 min
Lab File: VL034796.D
Acq: 5 Mar 2020 15:09

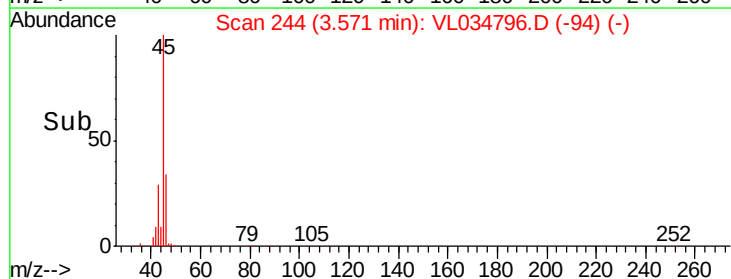
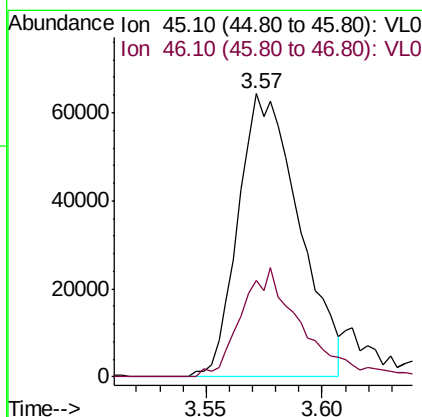
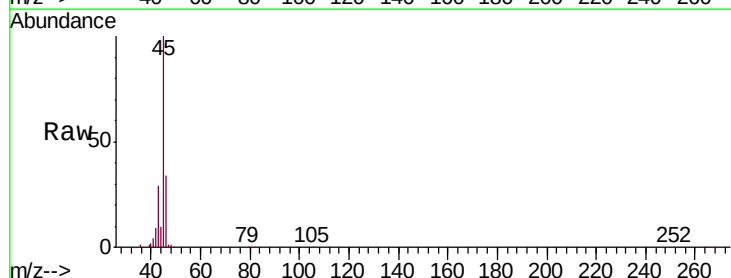
Instrument :
MSVOA_L
ClientSampleId :
IA-1-4DL

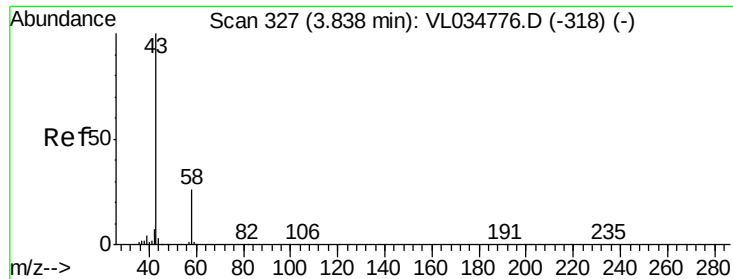
Tgt Ion: 43 Resp: 5637
Ion Ratio Lower Upper
43 100
57 0.0 40.5 60.7#



#13
Ethanol
Concen: 7.655 ppbv
RT: 3.57 min Scan# 244
Delta R.T. -0.02 min
Lab File: VL034796.D
Acq: 5 Mar 2020 15:09

Tgt Ion: 45 Resp: 117433
Ion Ratio Lower Upper
45 100
46 38.6 14.7 58.9





#15

Acetone

Concen: 10.120 ppbv

RT: 3.82 min Scan# 320

Delta R.T. -0.02 min

Lab File: VL034796.D

Acq: 5 Mar 2020 15:09

Instrument :

MSVOA_L

ClientSampleId :

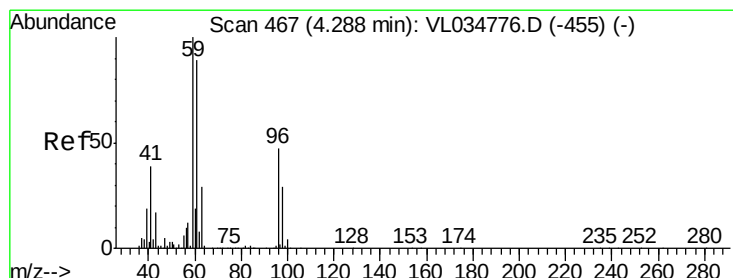
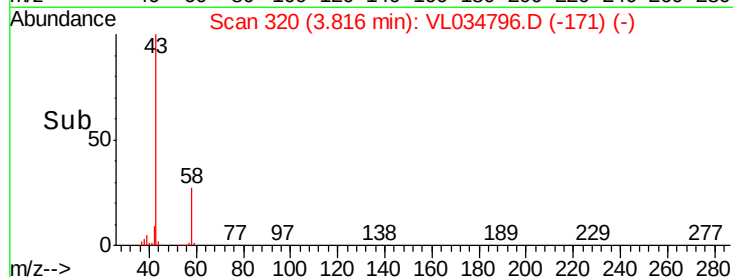
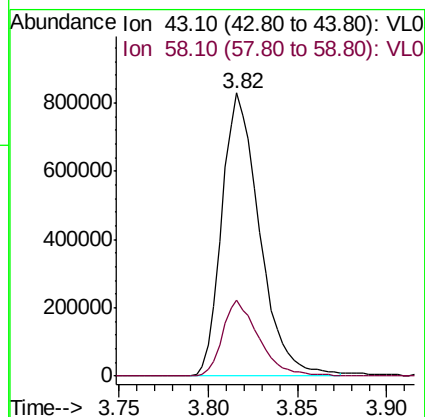
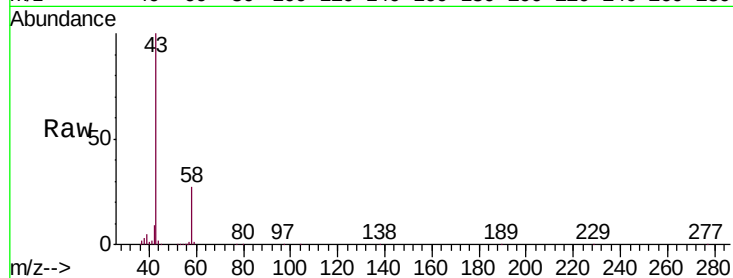
IA-1-4DL

Tgt Ion: 43 Resp: 1210003

Ion Ratio Lower Upper

43 100

58 26.5 21.0 31.6



#17

tert-Butyl alcohol

Concen: 0.038 ppbv

RT: 4.29 min Scan# 469

Delta R.T. 0.01 min

Lab File: VL034796.D

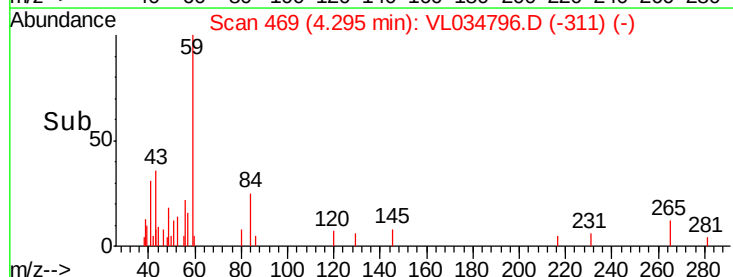
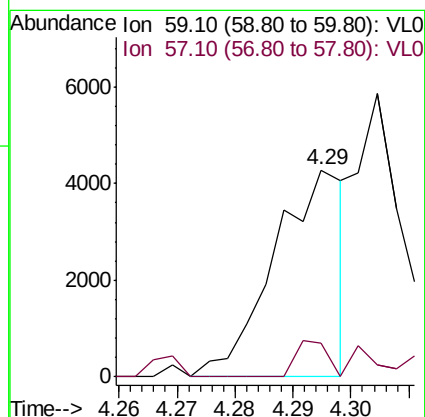
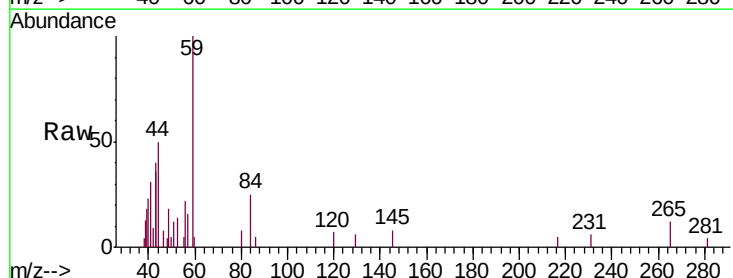
Acq: 5 Mar 2020 15:09

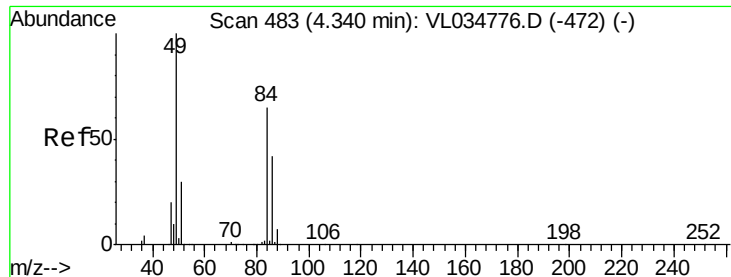
Tgt Ion: 59 Resp: 3612

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#

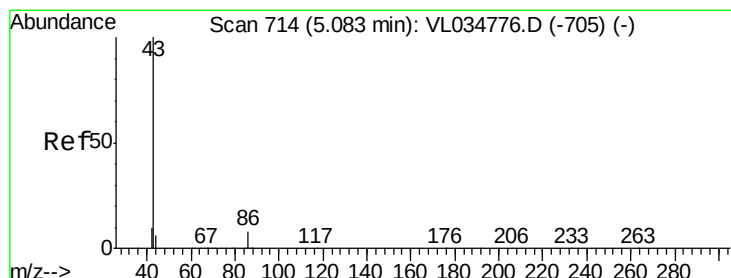
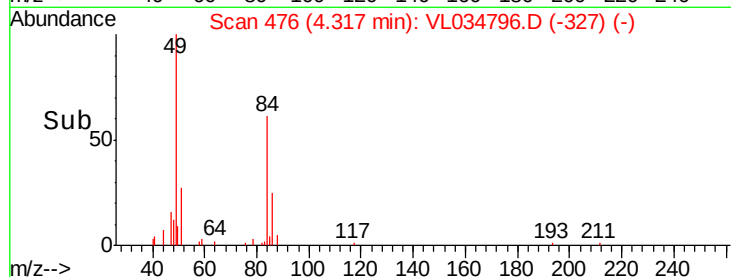
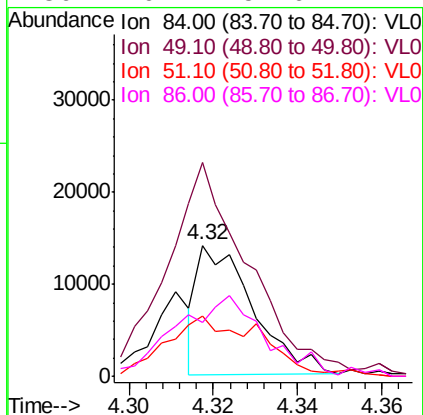
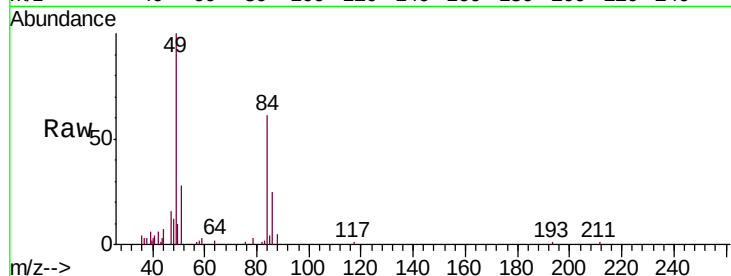




#20
Methylene Chloride
Concen: 0.299 ppbv
RT: 4.32 min Scan# 476
Delta R.T. -0.02 min
Lab File: VL034796.D
Acq: 5 Mar 2020 15:09

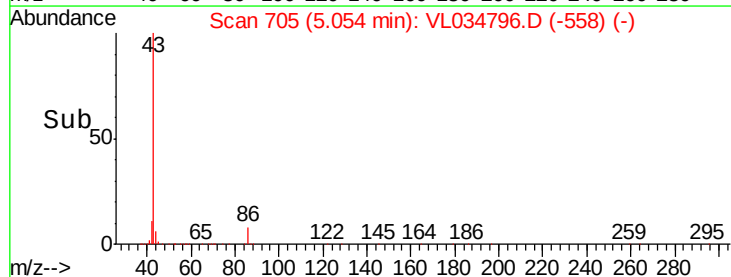
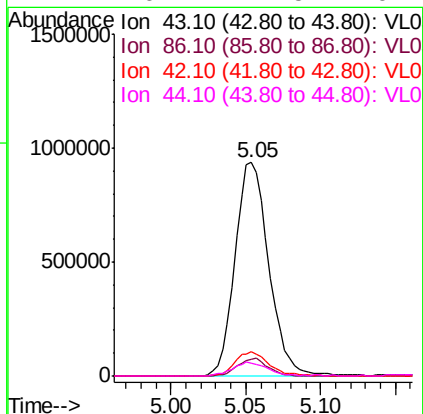
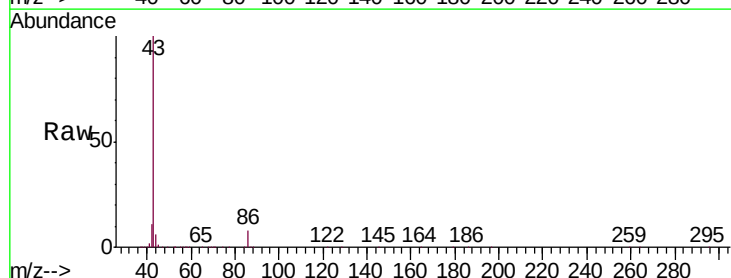
Instrument :
MSVOA_L
ClientSampleId :
IA-1-4DL

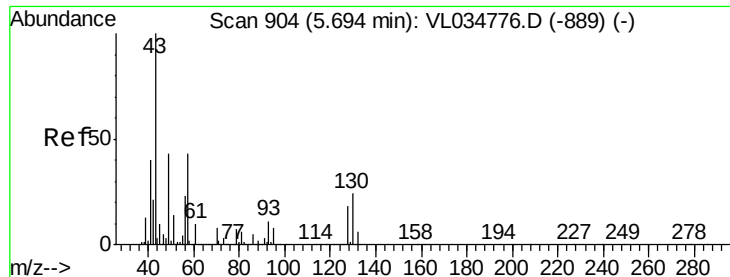
Tgt Ion: 84 Resp: 12750
Ion Ratio Lower Upper
84 100
49 170.9 123.2 184.8
51 43.1 37.4 56.2
86 40.4 51.6 77.4#



#23
Vinyl Acetate
Concen: 9.196 ppbv
RT: 5.05 min Scan# 705
Delta R.T. -0.03 min
Lab File: VL034796.D
Acq: 5 Mar 2020 15:09

Tgt Ion: 43 Resp: 1474398
Ion Ratio Lower Upper
43 100
86 7.7 5.9 8.9
42 11.4 8.2 12.2
44 6.2 4.5 6.7

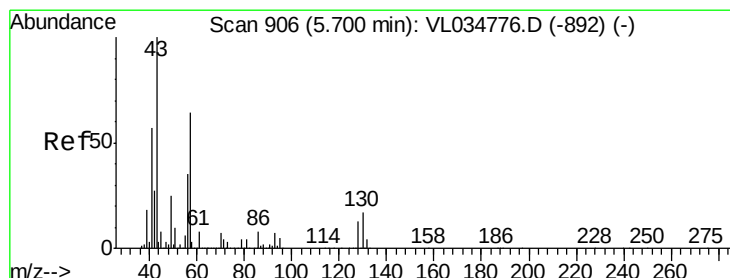
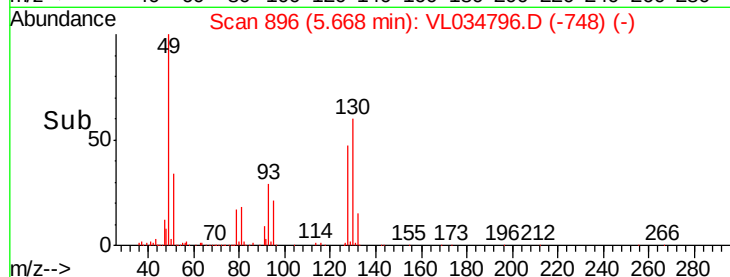
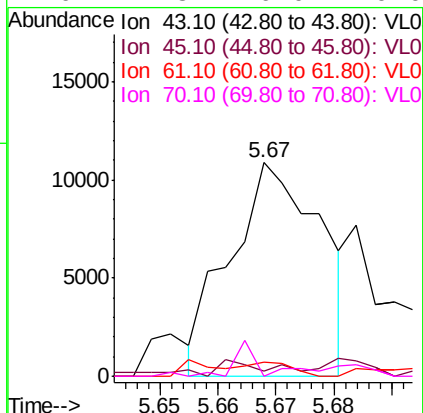
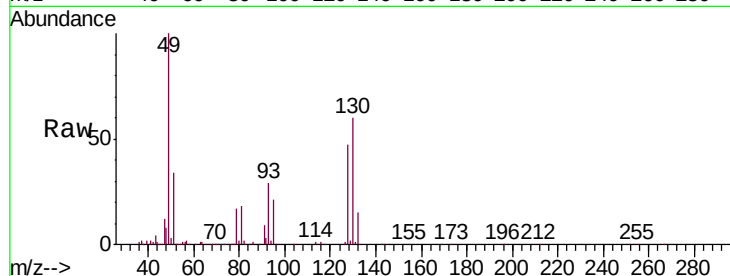




#25
Ethyl Acetate
Concen: 0.057 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.03 min
Lab File: VL034796.D
Acq: 5 Mar 2020 15:09

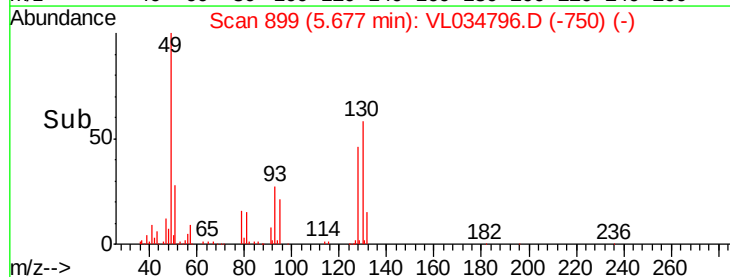
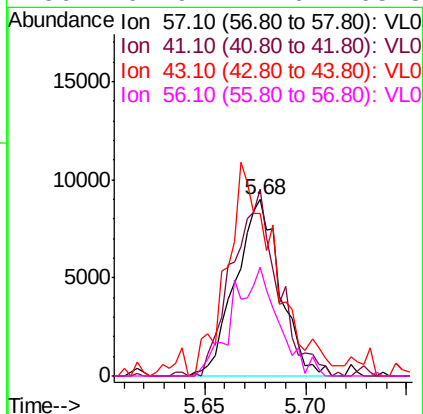
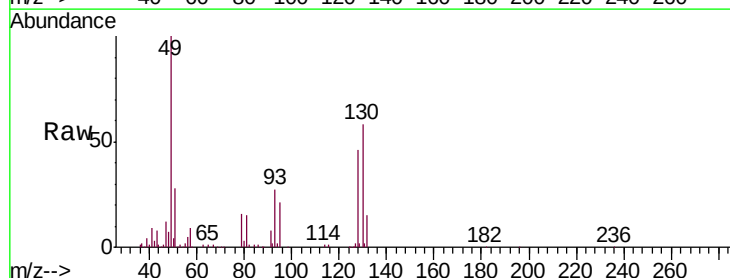
Instrument :
MSVOA_L
ClientSampleId :
IA-1-4DL

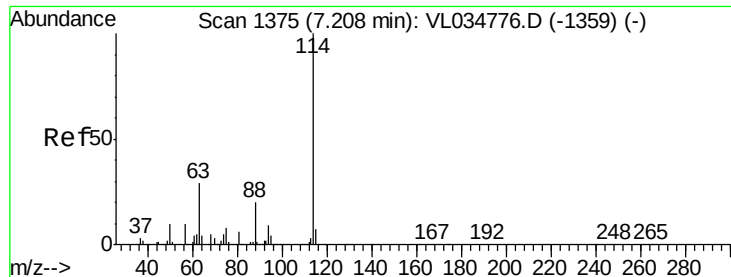
Tgt Ion:	43	Resp:	11835
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.2	12.4#
61	0.0	7.5	11.3#
70	7.8	6.0	9.0



#26
Hexane
Concen: 0.155 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.02 min
Lab File: VL034796.D
Acq: 5 Mar 2020 15:09

Tgt Ion:	57	Resp:	13956
Ion	Ratio	Lower	Upper
57	100		
41	107.9	72.0	108.0
43	133.0	179.1	268.7#
56	62.9	42.6	63.8

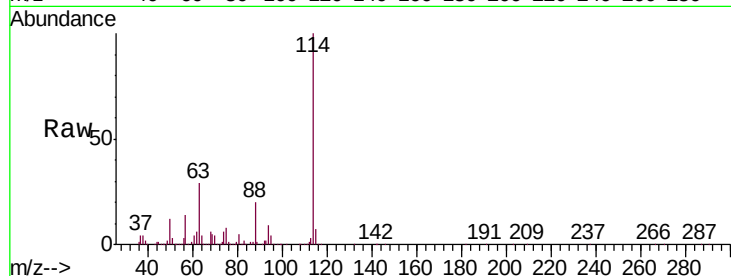




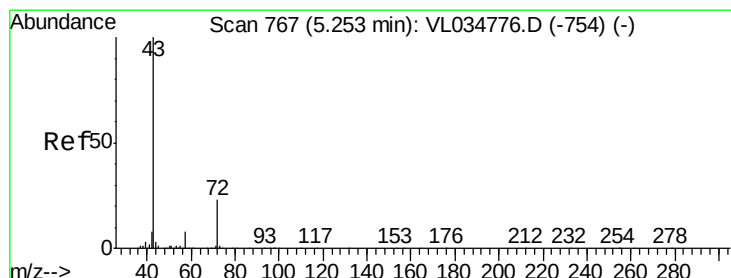
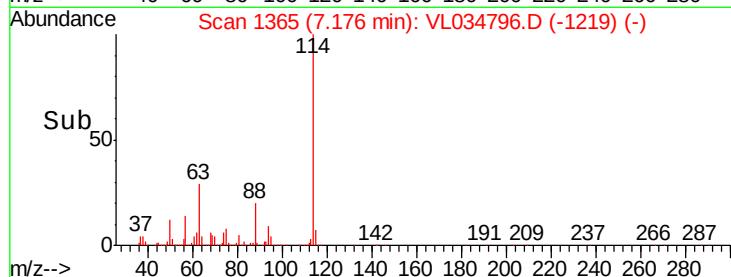
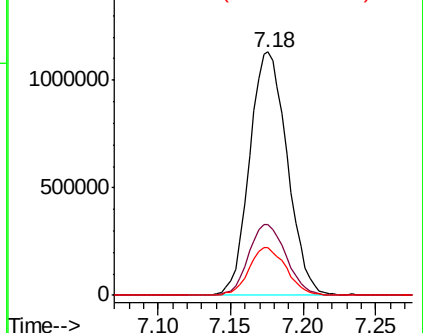
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.03 min
 Lab File: VL034796.D
 Acq: 5 Mar 2020 15:09

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1-4DL

Tgt Ion: 114 Resp: 2048777
 Ion Ratio Lower Upper
 114 100
 63 29.0 23.6 35.4
 88 19.4 15.8 23.8

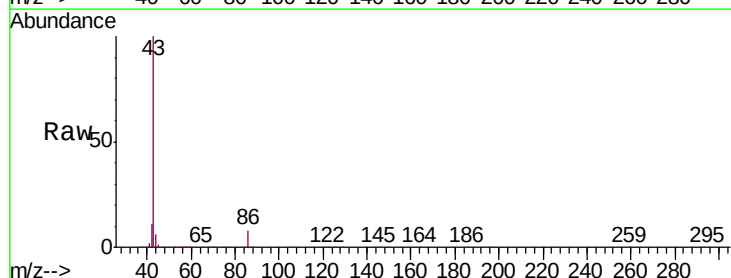


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

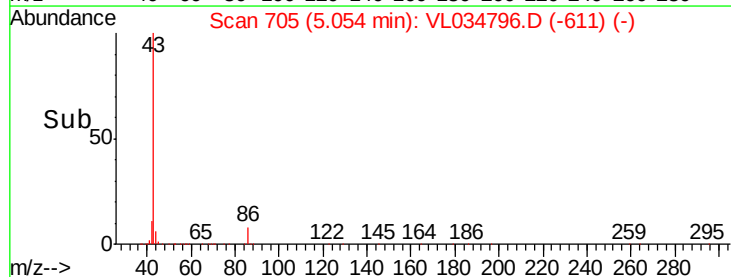
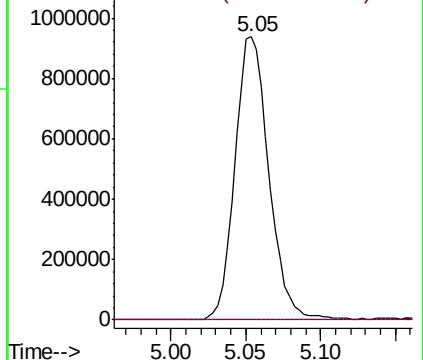


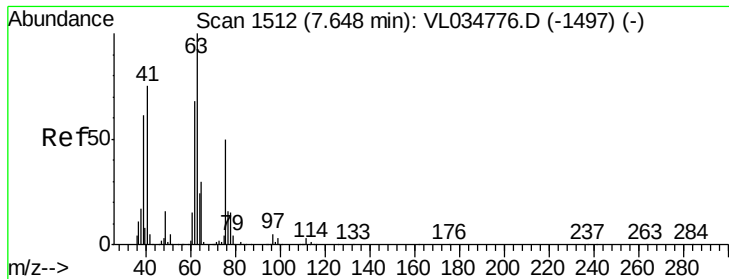
#34
 2-Butanone
 Concen: 11.062 ppbv
 RT: 5.05 min Scan# 705
 Delta R.T. -0.20 min
 Lab File: VL034796.D
 Acq: 5 Mar 2020 15:09

Tgt Ion: 43 Resp: 1474398
 Ion Ratio Lower Upper
 43 100
 72 0.2 17.5 26.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 8.384 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.47 min

Lab File: VL034796.D

Acq: 5 Mar 2020 15:09

Instrument :

MSVOA_L

ClientSampleId :

IA-1-4DL

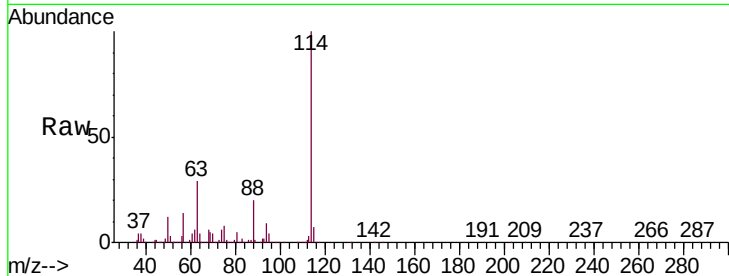
Tgt Ion: 63 Resp: 592342

Ion Ratio Lower Upper

63 100

41 0.0 60.3 90.5#

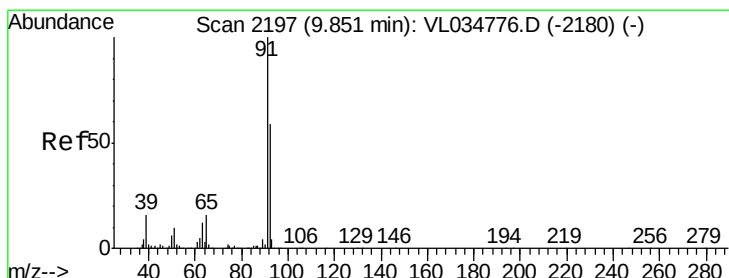
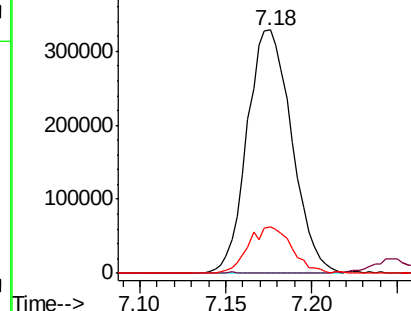
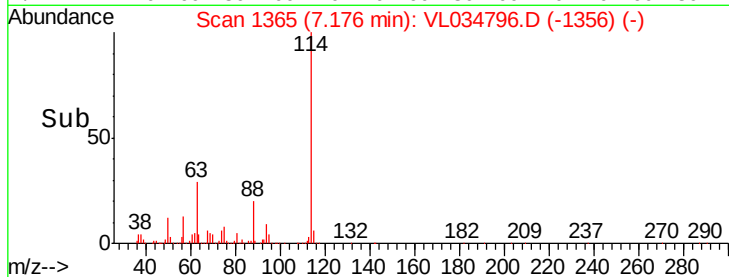
62 19.0 54.5 81.7#



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



#53

Toluene

Concen: 3.116 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.03 min

Lab File: VL034796.D

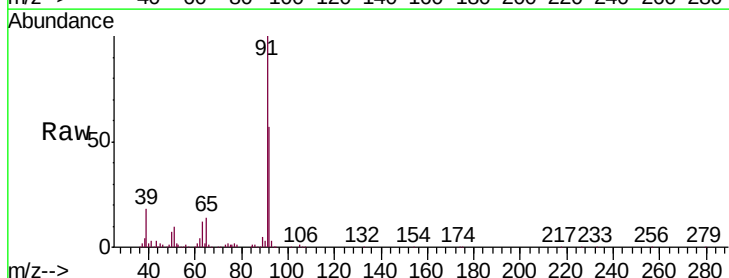
Acq: 5 Mar 2020 15:09

Tgt Ion: 91 Resp: 577370

Ion Ratio Lower Upper

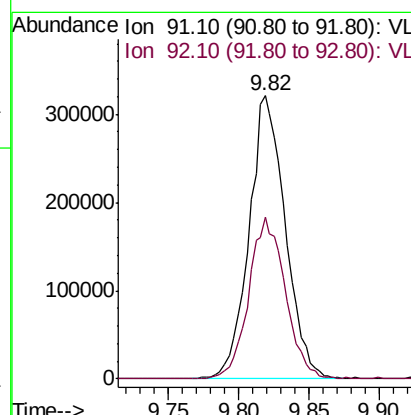
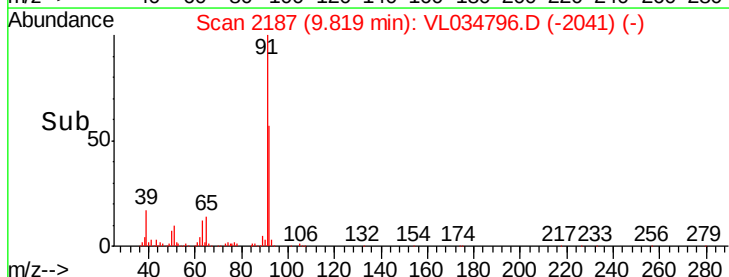
91 100

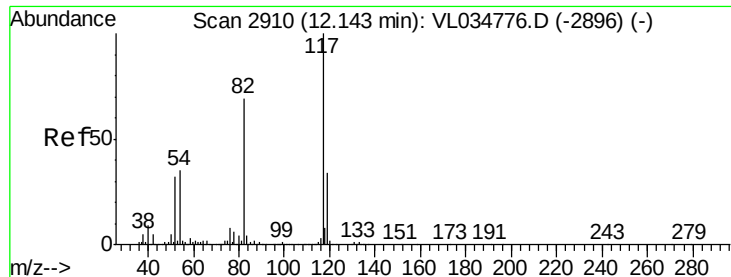
92 57.4 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

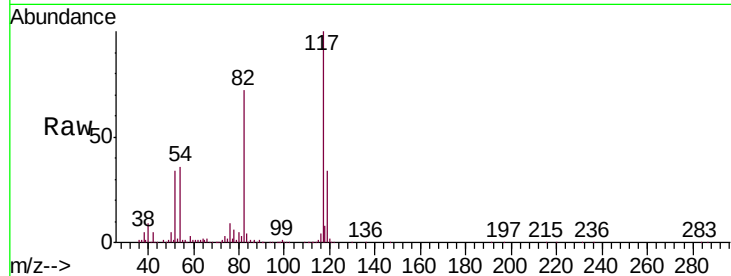




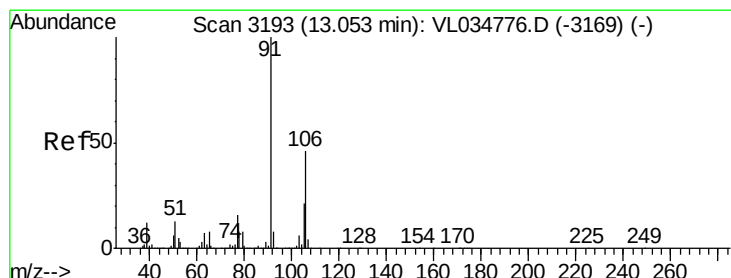
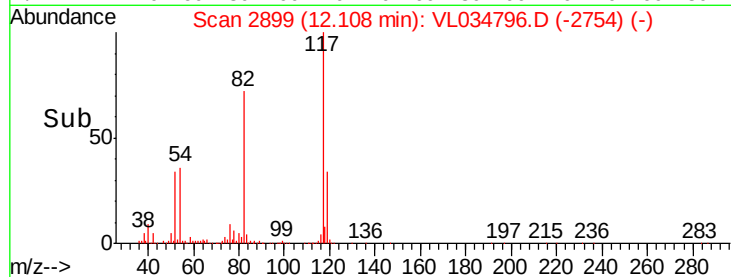
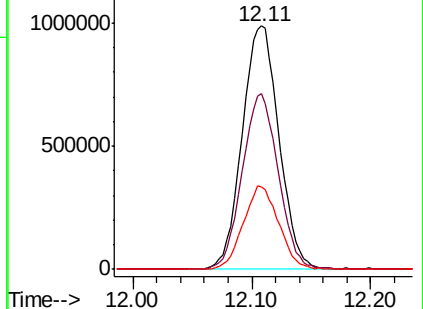
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.04 min
Lab File: VL034796.D
Acq: 5 Mar 2020 15:09

Instrument :
MSVOA_L
ClientSampleId :
IA-1-4DL

Tgt Ion:117 Resp: 2111077
Ion Ratio Lower Upper
117 100
82 70.8 53.9 80.9
119 33.1 25.0 37.4

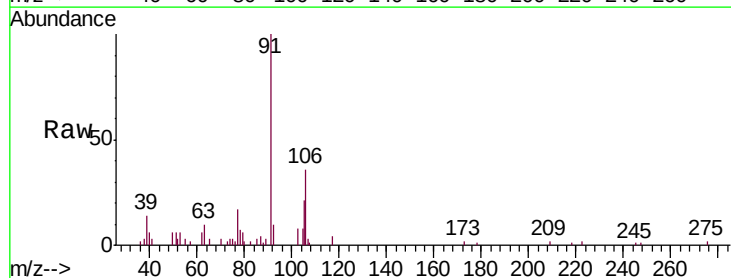


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

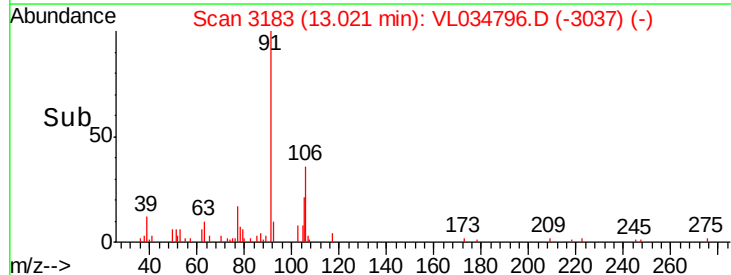
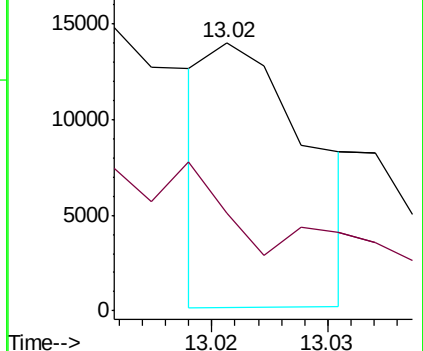


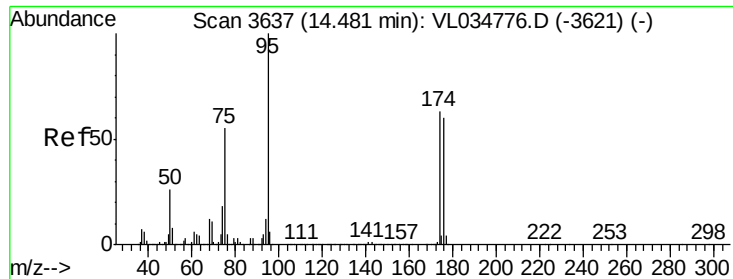
#59
m/p-Xylene
Concen: 0.037 ppbv
RT: 13.02 min Scan# 3183
Delta R.T. -0.03 min
Lab File: VL034796.D
Acq: 5 Mar 2020 15:09

Tgt Ion: 91 Resp: 8293
Ion Ratio Lower Upper
91 100
106 0.0 35.8 53.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.428 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. -0.04 min

Lab File: VL034796.D

Acq: 5 Mar 2020 15:09

Instrument :

MSVOA_L

ClientSampleId :

IA-1-4DL

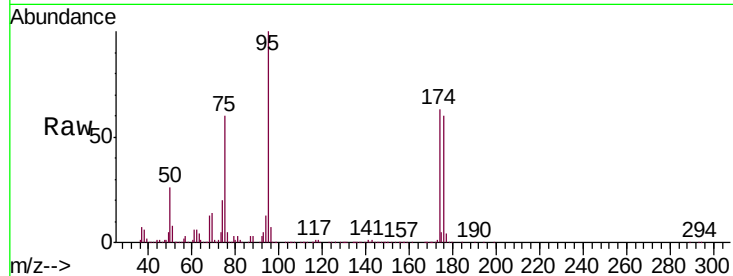
Tgt Ion: 95 Resp: 1835640

Ion Ratio Lower Upper

95 100

174 63.3 50.6 76.0

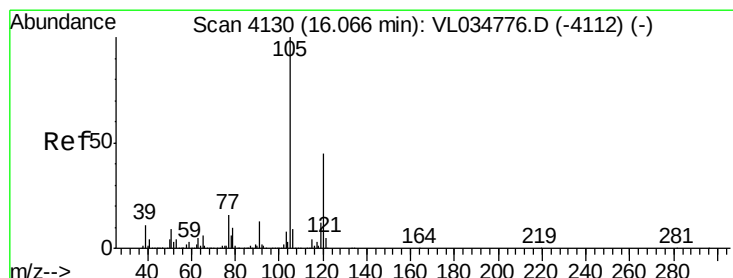
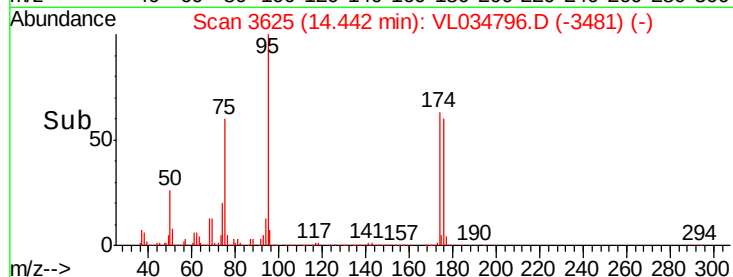
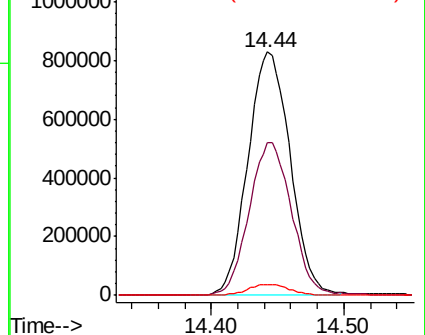
175 4.6 3.8 5.6



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



#73

1,3,5-Trimethylbenzene

Concen: 0.033 ppbv

RT: 16.02 min Scan# 4117

Delta R.T. -0.04 min

Lab File: VL034796.D

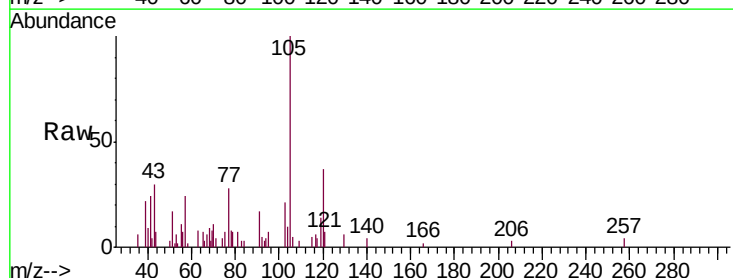
Acq: 5 Mar 2020 15:09

Tgt Ion: 105 Resp: 7984

Ion Ratio Lower Upper

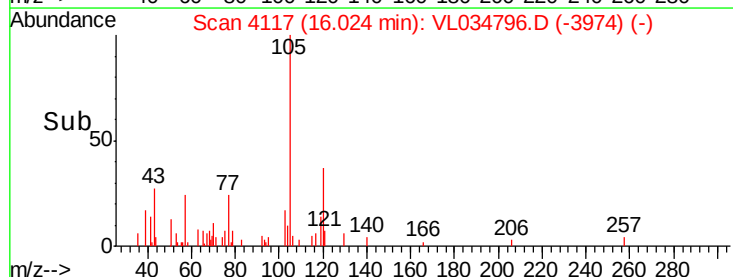
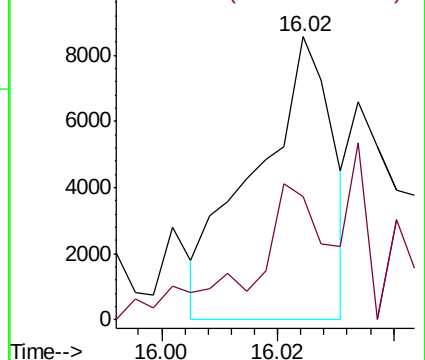
105 100

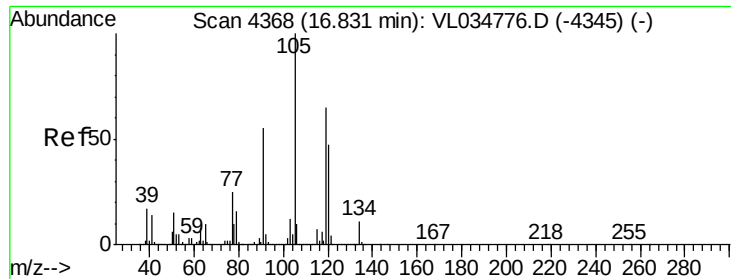
120 43.1 35.6 53.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74
 1,2,4-Trimethylbenzene
 Concen: 0.081 ppbv
 RT: 16.79 min Scan# 4354
 Delta R.T. -0.04 min
 Lab File: VL034796.D
 Acq: 5 Mar 2020 15:09

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1-4DL

Tgt Ion:	105	Resp:	21305
Ion	Ratio	Lower	Upper
105	100		
120	35.8	37.8	56.6#
91	13.7	43.8	65.8#
77	18.3	19.9	29.9#

