

Data File : VL034656.D
Acq On : 19 Feb 2020 22:21
Operator : SY/AP
Sample : L1553-03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Quant Time: Feb 20 06:51:54 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Jan 30 17:16:44 2020
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	745878	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	1591714	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.11	117	1543285	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.44 95 1344420 10.31 ppbv -0.01
Spiked Amount 10.000 Range 65 - 135 Recovery = 103.10%

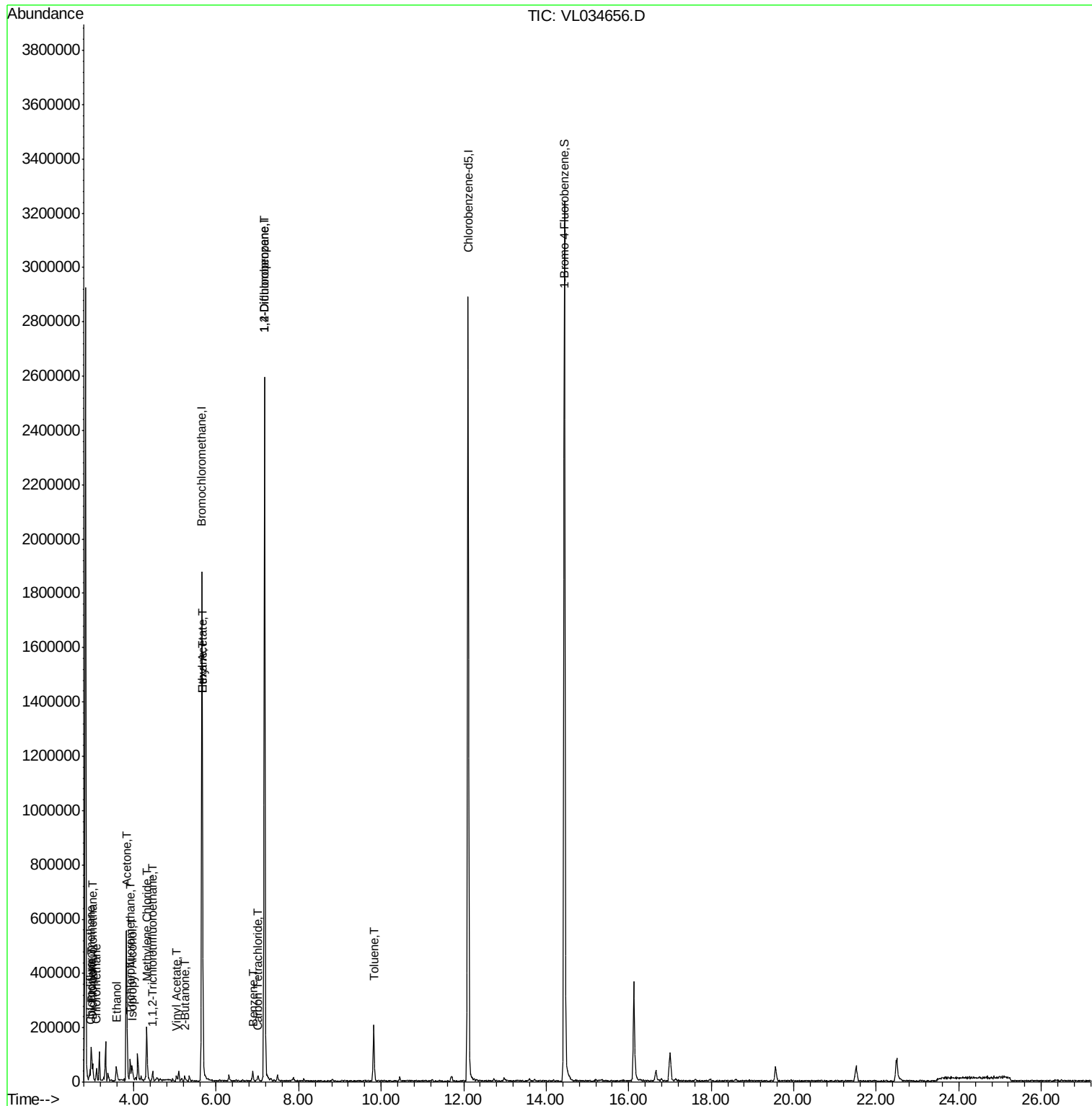
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.01	85	35689	0.217	ppbv	92
3) Chlorodifluoromethane	2.95	51	37714	0.418	ppbv	93
4) Chloromethane	3.10	50	32284	0.585	ppbv	89
9) Propene	2.99	41	19601	0.559	ppbv	86
11) Trichlorofluoromethane	3.92	101	45472	0.305	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.46	101	7941	0.082	ppbv	98
13) Ethanol	3.57	45	20237	2.153	ppbv #	1
15) Acetone	3.82	43	577636	5.269	ppbv	97
19) Isopropyl Alcohol	3.96	45	32818	0.513	ppbv #	94
20) Methylene Chloride	4.32	84	64064	1.535	ppbv	85
23) Vinyl Acetate	5.05	43	4165	0.033	ppbv #	1
25) Ethyl Acetate	5.67	43	57178	0.322	ppbv #	82
26) Hexane	5.67	57	71037	0.956	ppbv #	37
34) 2-Butanone	5.24	43	9900	0.086	ppbv #	54
35) Carbon Tetrachloride	7.01	117	6979	0.046	ppbv #	71
36) Benzene	6.89	78	13752	0.097	ppbv #	84
39) 1,2-Dichloropropane	7.18	63	453338	7.726	ppbv #	19
53) Toluene	9.82	91	130669	0.840	ppbv	100

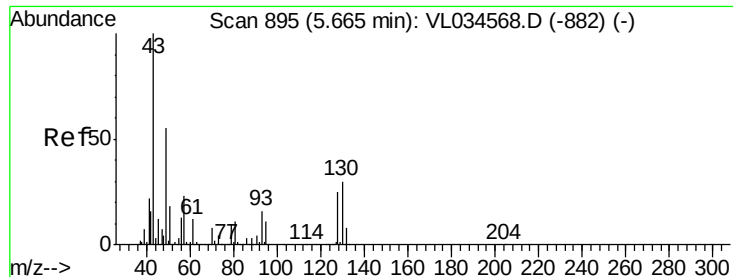
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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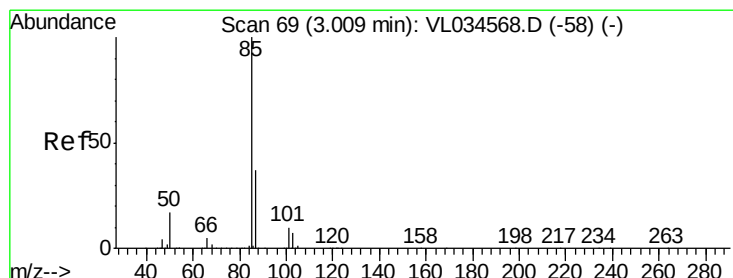
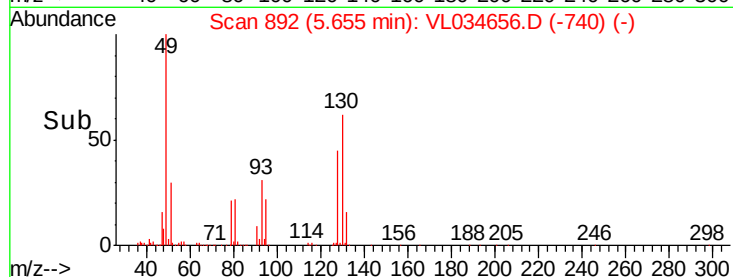
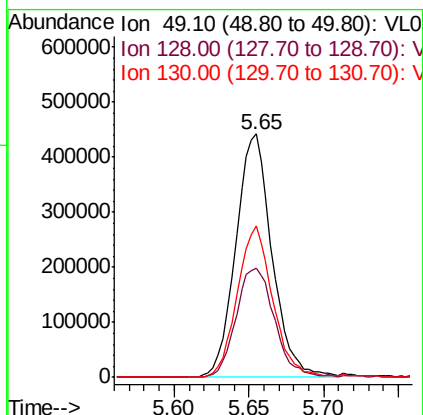
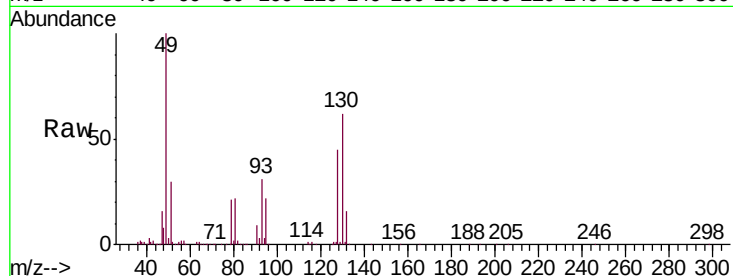




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 892
 Delta R.T. -0.01 min
 Lab File: VL034656.D
 Acq: 19 Feb 2020 22:21

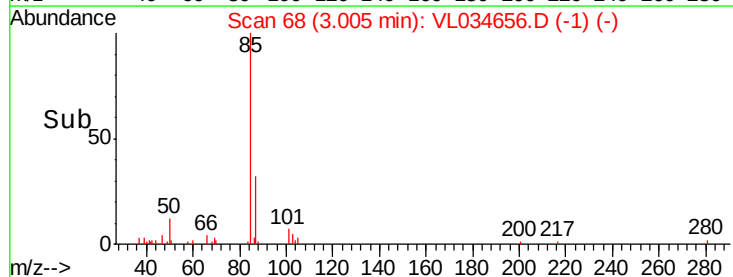
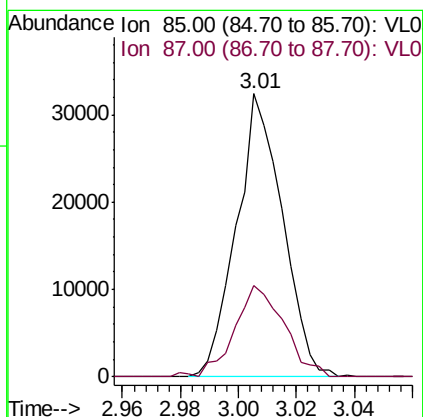
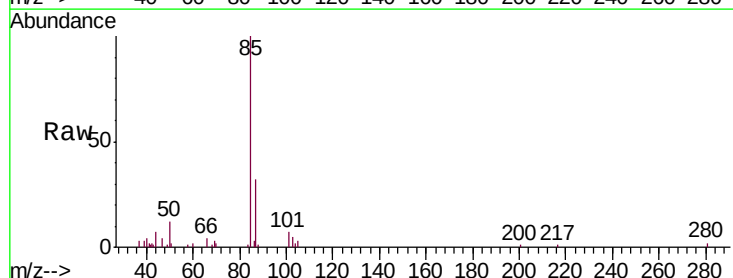
Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

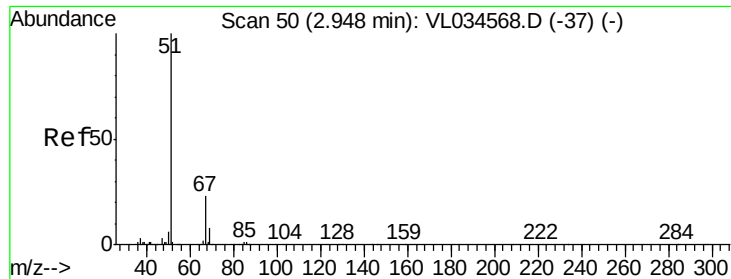
Tgt Ion: 49 Resp: 745878
 Ion Ratio Lower Upper
 49 100
 128 48.7 22.7 68.1
 130 61.8 28.6 85.8



#2
 Dichlorodifluoromethane
 Concen: 0.217 ppbv
 RT: 3.01 min Scan# 68
 Delta R.T. -0.00 min
 Lab File: VL034656.D
 Acq: 19 Feb 2020 22:21

Tgt Ion: 85 Resp: 35689
 Ion Ratio Lower Upper
 85 100
 87 32.3 29.5 44.3





#3

Chlorodifluoromethane

Concen: 0.418 ppbv

RT: 2.95 min Scan# 50

Delta R.T. -0.00 min

Lab File: VL034656.D

Acq: 19 Feb 2020 22:21

Instrument :

MSVOA_L

ClientSampleId :

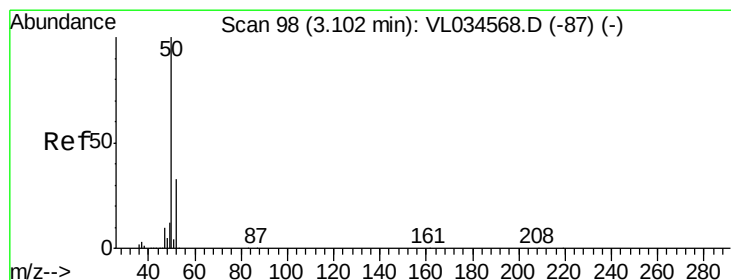
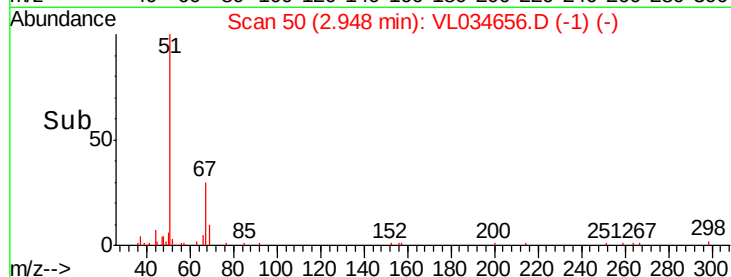
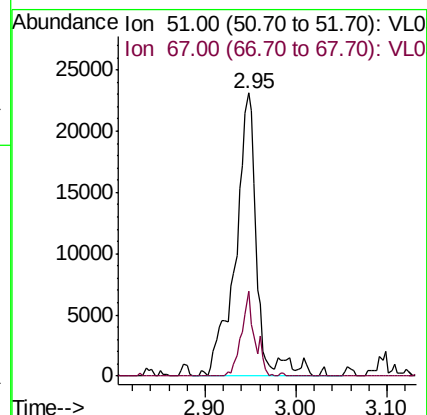
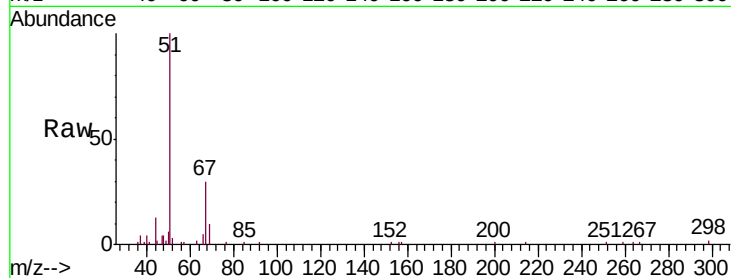
AA-1

Tgt Ion: 51 Resp: 37714

Ion Ratio Lower Upper

51 100

67 19.0 17.8 26.8



#4

Chloromethane

Concen: 0.585 ppbv

RT: 3.10 min Scan# 98

Delta R.T. -0.00 min

Lab File: VL034656.D

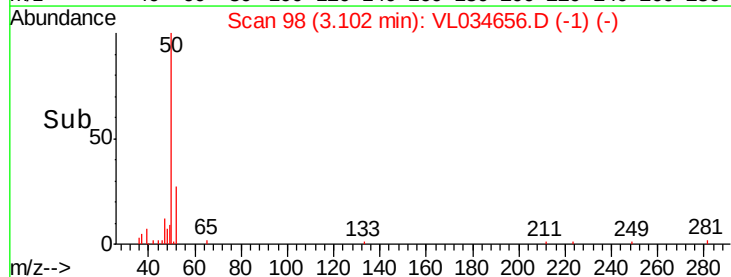
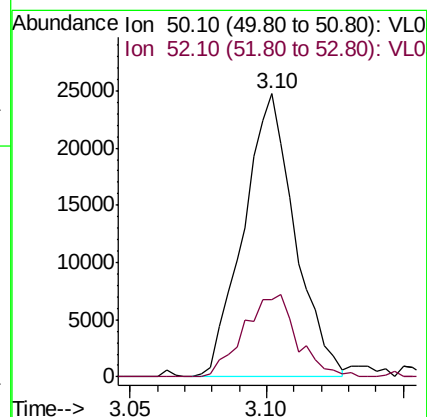
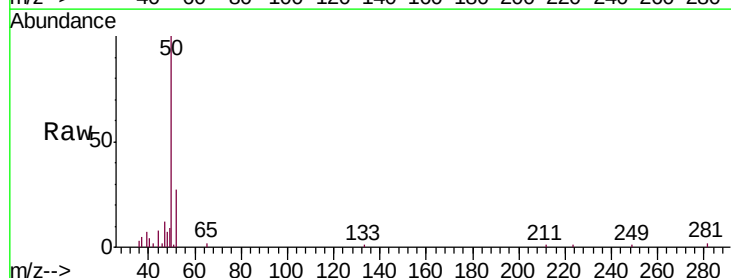
Acq: 19 Feb 2020 22:21

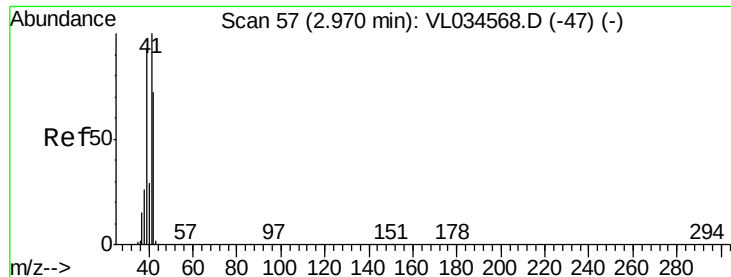
Tgt Ion: 50 Resp: 32284

Ion Ratio Lower Upper

50 100

52 26.9 26.6 39.8





#9

Propene

Concen: 0.559 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.02 min

Lab File: VL034656.D

Acq: 19 Feb 2020 22:21

Instrument :

MSVOA_L

ClientSampleId :

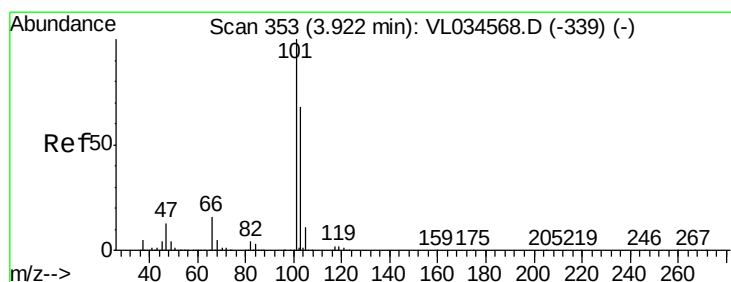
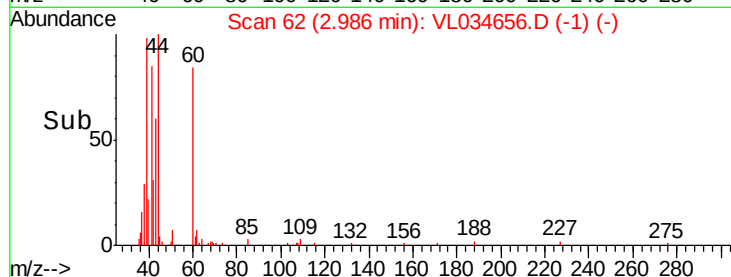
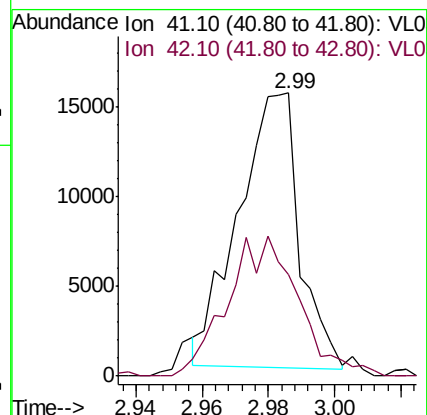
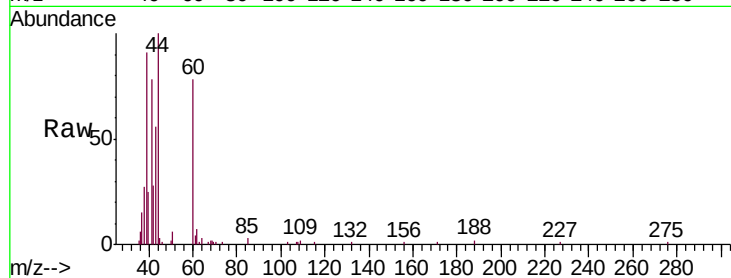
AA-1

Tgt Ion: 41 Resp: 19601

Ion Ratio Lower Upper

41 100

42 59.7 57.0 85.4



#11

Trichlorofluoromethane

Concen: 0.305 ppbv

RT: 3.92 min Scan# 352

Delta R.T. -0.00 min

Lab File: VL034656.D

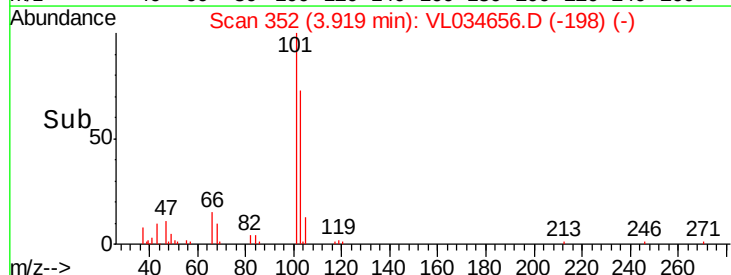
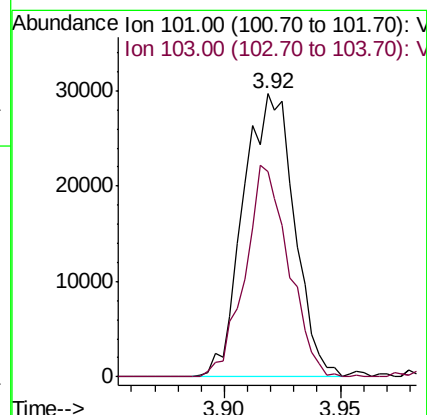
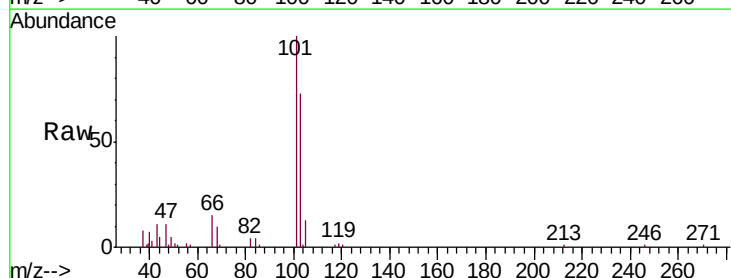
Acq: 19 Feb 2020 22:21

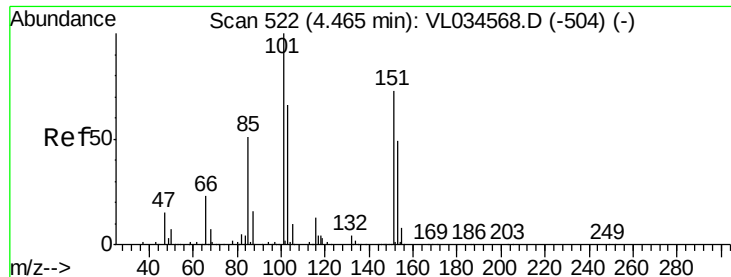
Tgt Ion: 101 Resp: 45472

Ion Ratio Lower Upper

101 100

103 72.6 54.4 81.6





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.082 ppbv

RT: 4.46 min Scan# 520

Delta R.T. -0.01 min

Lab File: VL034656.D

Acq: 19 Feb 2020 22:21

Instrument :

MSVOA_L

ClientSampleId :

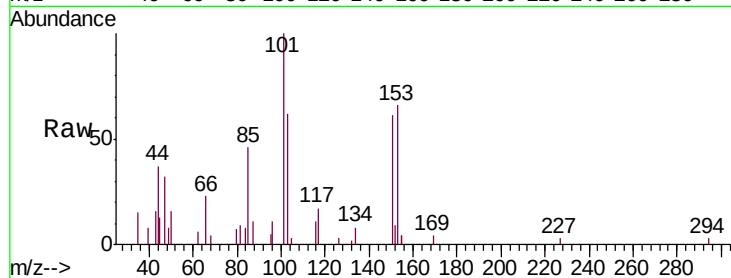
AA-1

Tgt Ion: 101 Resp: 7941

Ion Ratio Lower Upper

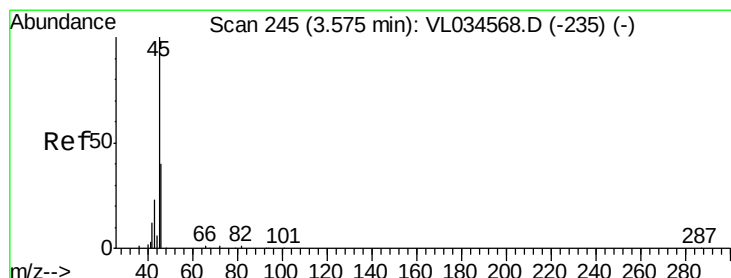
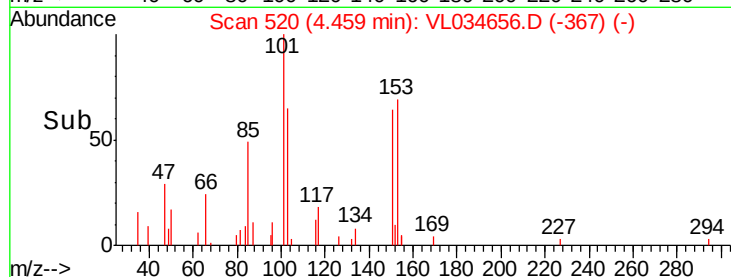
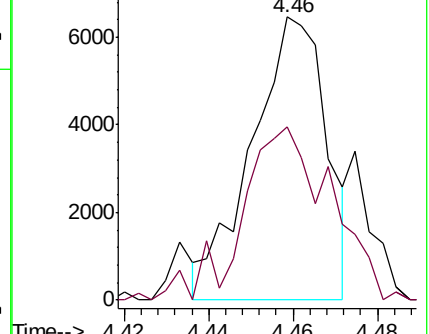
101 100

151 73.1 57.0 85.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 2.153 ppbv

RT: 3.57 min Scan# 245

Delta R.T. -0.00 min

Lab File: VL034656.D

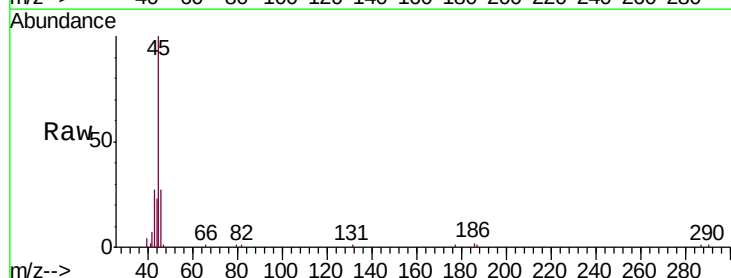
Acq: 19 Feb 2020 22:21

Tgt Ion: 45 Resp: 20237

Ion Ratio Lower Upper

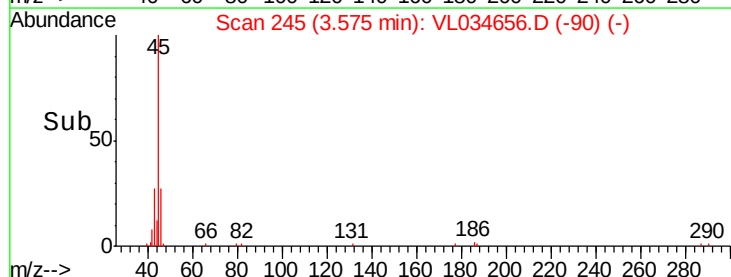
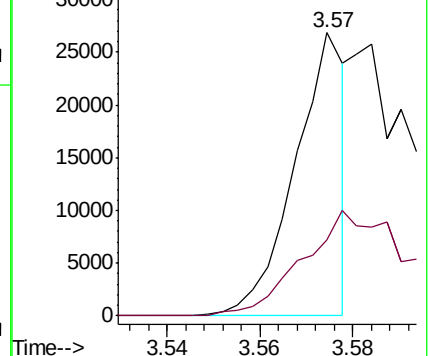
45 100

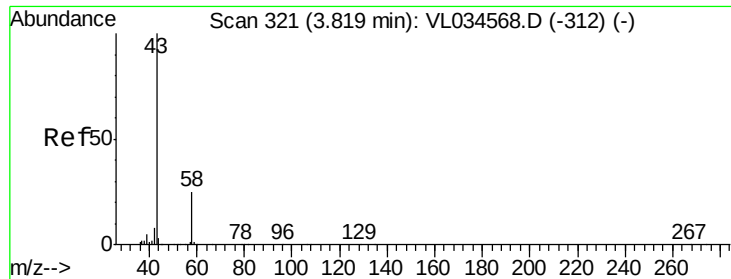
46 97.0 14.8 59.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

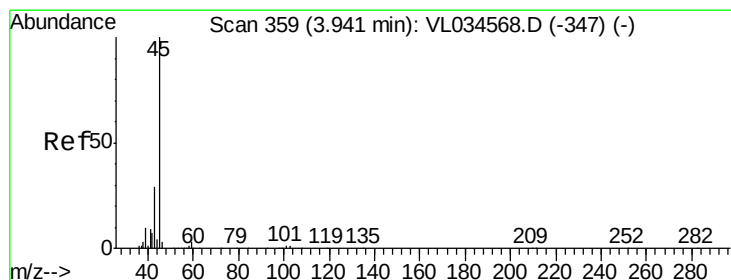
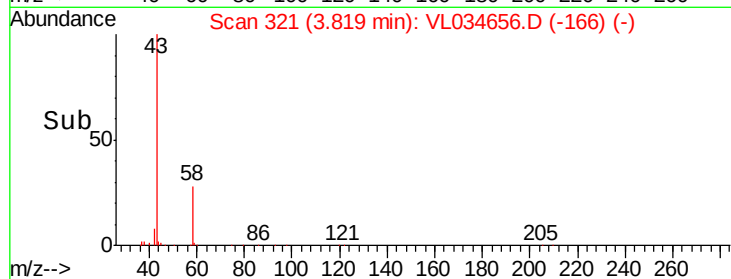
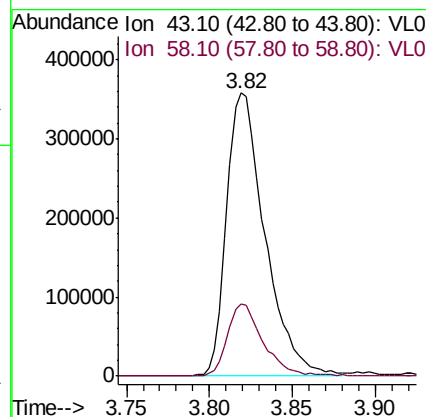
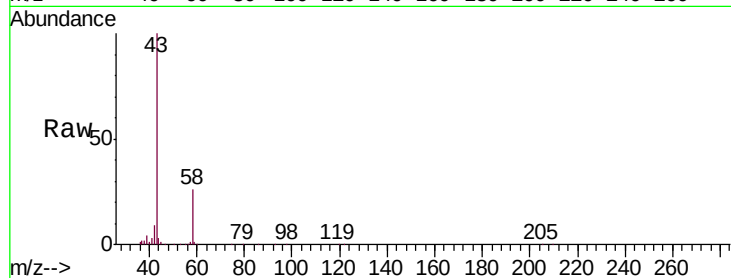




#15
Acetone
Concen: 5.269 ppbv
RT: 3.82 min Scan# 321
Delta R.T. -0.00 min
Lab File: VL034656.D
Acq: 19 Feb 2020 22:21

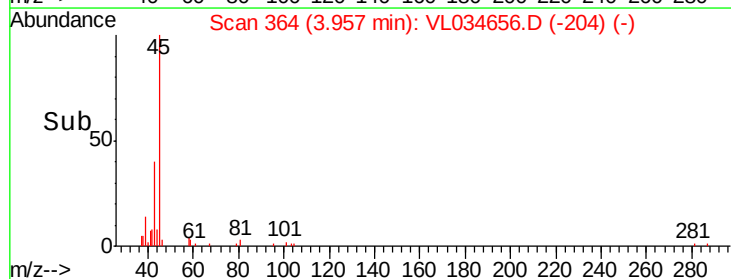
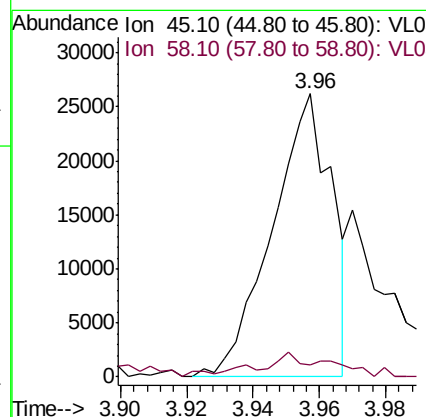
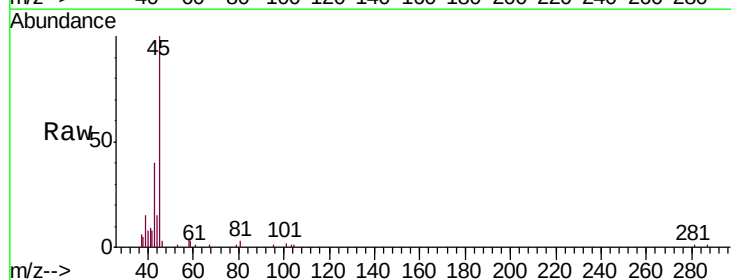
Instrument :
MSVOA_L
ClientSampled :
AA-1

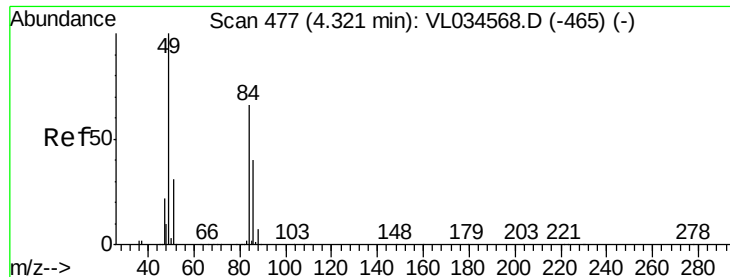
Tgt Ion: 43 Resp: 577636
Ion Ratio Lower Upper
43 100
58 23.9 20.3 30.5



#19
Isopropyl Alcohol
Concen: 0.513 ppbv
RT: 3.96 min Scan# 364
Delta R.T. 0.02 min
Lab File: VL034656.D
Acq: 19 Feb 2020 22:21

Tgt Ion: 45 Resp: 32818
Ion Ratio Lower Upper
45 100
58 0.0 1.7 2.5#

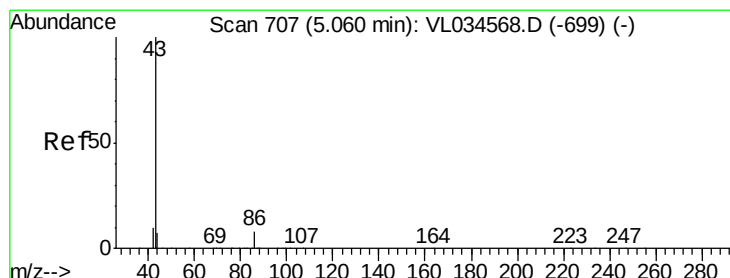
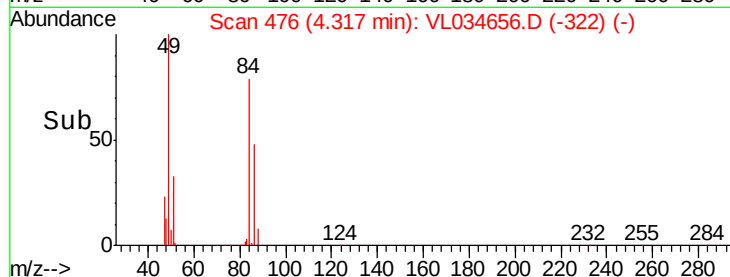
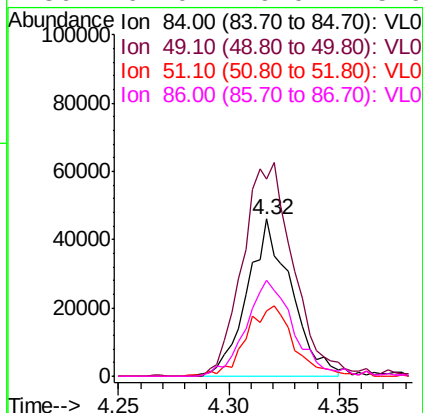
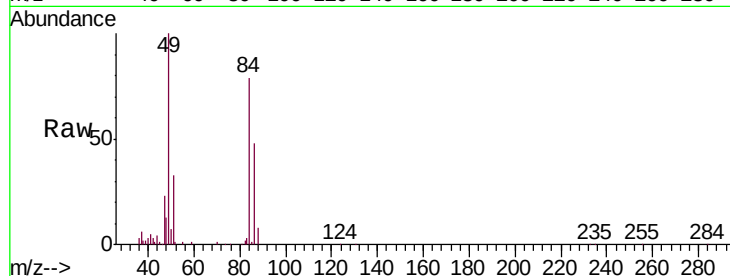




#20
Methylene Chloride
Concen: 1.535 ppbv
RT: 4.32 min Scan# 476
Delta R.T. -0.00 min
Lab File: VL034656.D
Acq: 19 Feb 2020 22:21

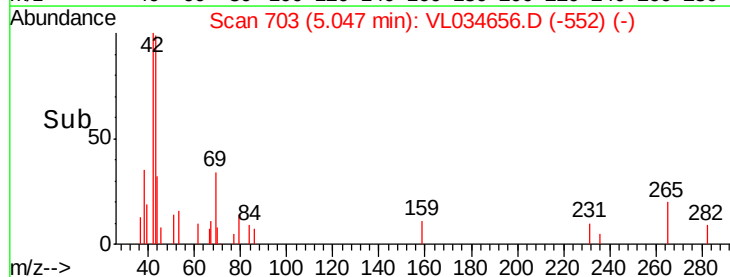
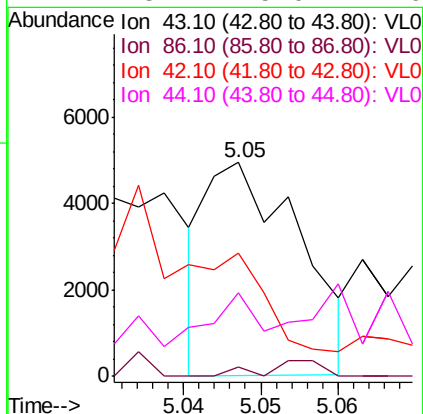
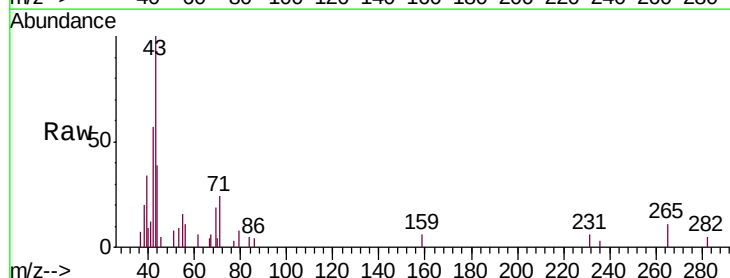
Instrument :
MSVOA_L
ClientSampleId :
AA-1

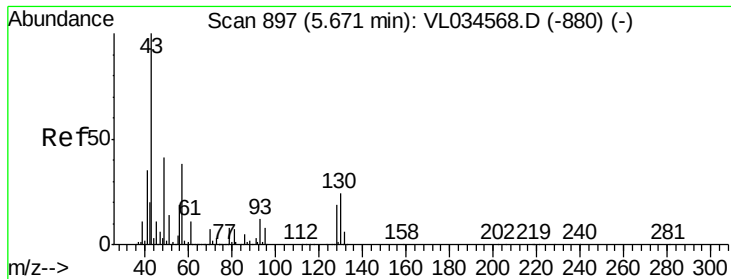
Tgt Ion:	84	Resp:	64064
Ion	Ratio	Lower	Upper
84	100		
49	125.4	122.4	183.6
51	41.1	38.6	57.8
86	61.0	49.0	73.6



#23
Vinyl Acetate
Concen: 0.033 ppbv
RT: 5.05 min Scan# 703
Delta R.T. -0.01 min
Lab File: VL034656.D
Acq: 19 Feb 2020 22:21

Tgt Ion:	43	Resp:	4165
Ion	Ratio	Lower	Upper
43	100		
86	20.2	5.9	8.9#
42	225.9	8.8	13.2#
44	78.4	5.0	7.6#

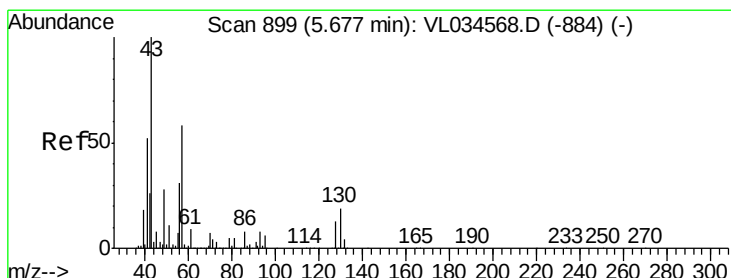
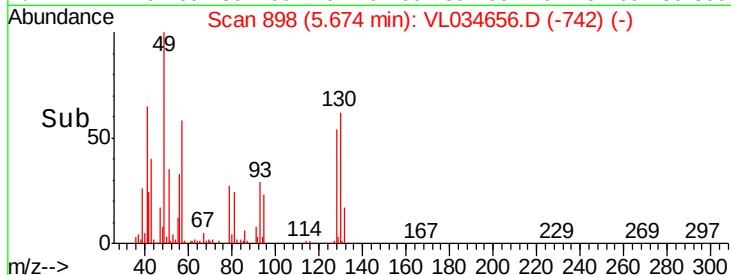
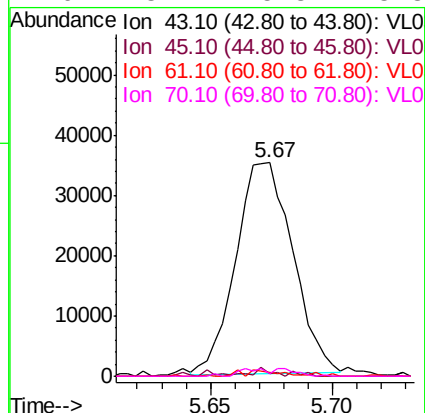
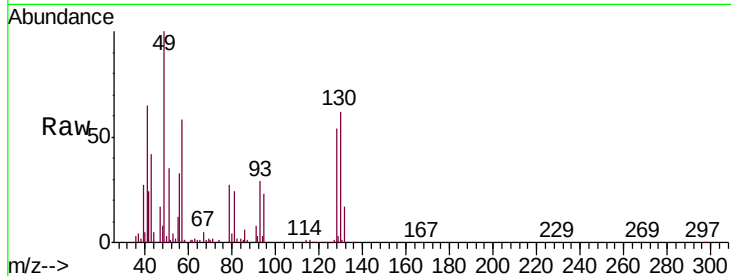




#25
Ethyl Acetate
Concen: 0.322 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL034656.D
Acq: 19 Feb 2020 22:21

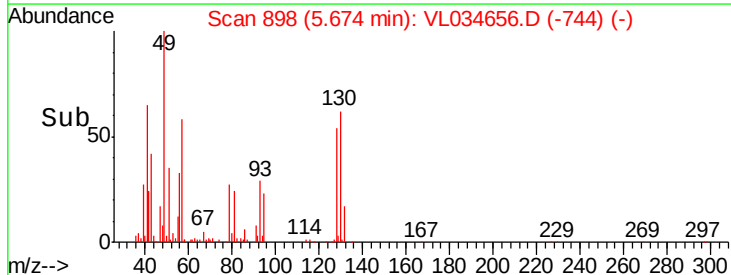
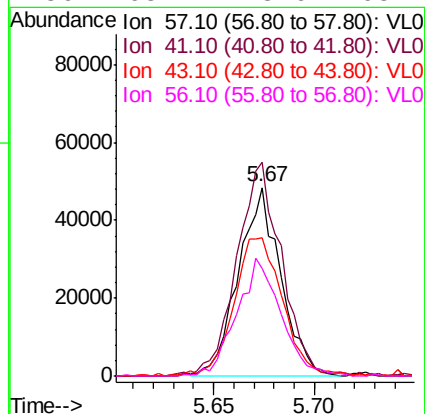
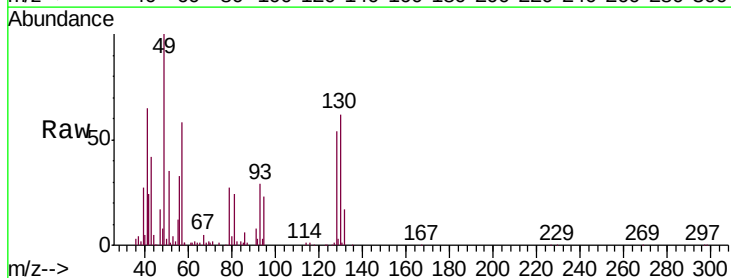
Instrument :
MSVOA_L
ClientSampleId :
AA-1

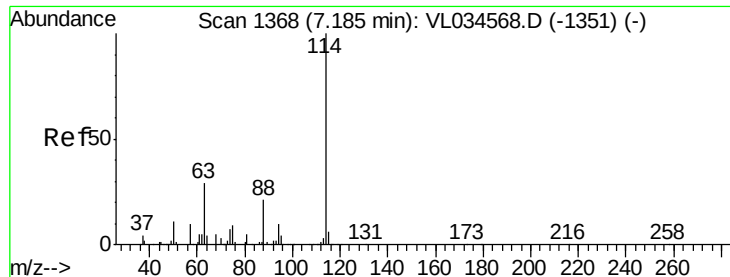
Tgt Ion:	43	Resp:	57178
Ion	Ratio	Lower	Upper
43	100		
45	2.9	8.5	12.7#
61	2.3	7.8	11.6#
70	3.2	5.8	8.8#



#26
Hexane
Concen: 0.956 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.00 min
Lab File: VL034656.D
Acq: 19 Feb 2020 22:21

Tgt Ion:	57	Resp:	71037
Ion	Ratio	Lower	Upper
57	100		
41	119.8	76.2	114.2#
43	85.8	189.9	284.9#
56	65.4	43.6	65.4

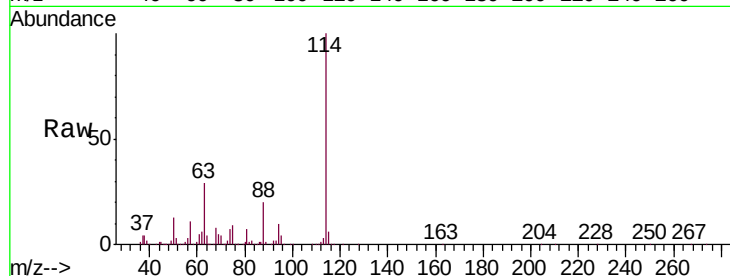




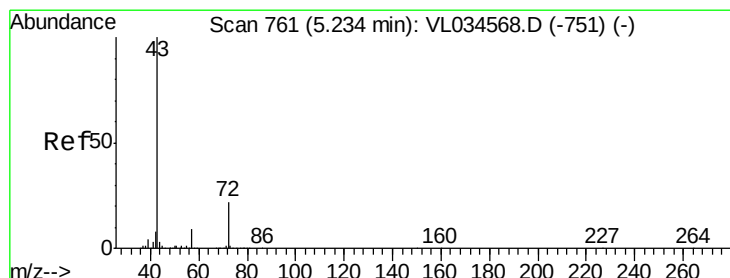
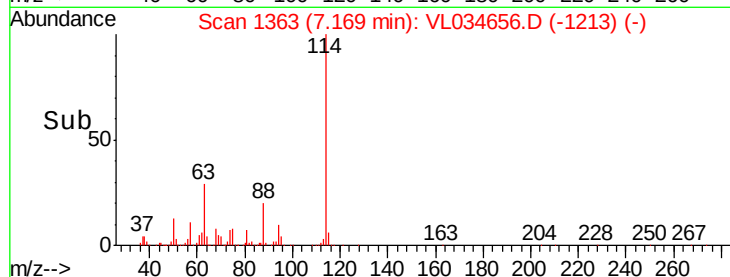
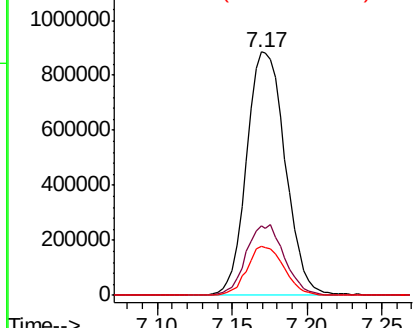
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.02 min
 Lab File: VL034656.D
 Acq: 19 Feb 2020 22:21

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Tgt Ion:114 Resp: 1591714
 Ion Ratio Lower Upper
 114 100
 63 28.8 24.1 36.1
 88 19.5 15.9 23.9

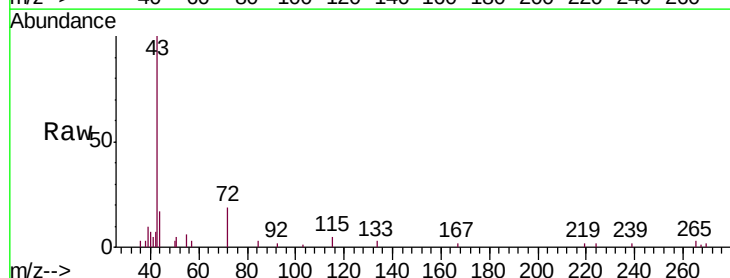


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

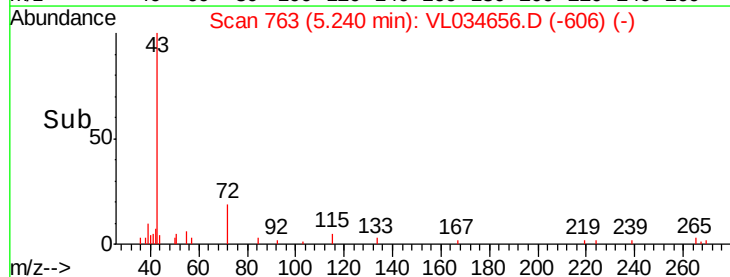
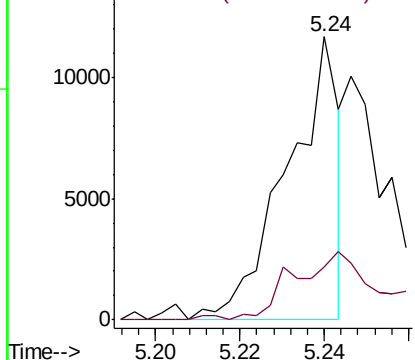


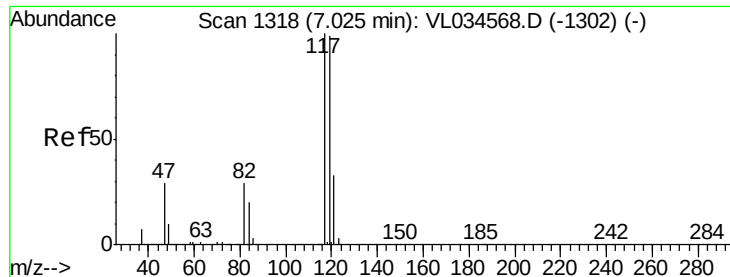
#34
 2-Butanone
 Concen: 0.086 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. 0.01 min
 Lab File: VL034656.D
 Acq: 19 Feb 2020 22:21

Tgt Ion: 43 Resp: 9900
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.2 25.8#



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





#35

Carbon Tetrachloride

Concen: 0.046 ppbv

RT: 7.01 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VL034656.D

Acq: 19 Feb 2020 22:21

Instrument :

MSVOA_L

ClientSampleId :

AA-1

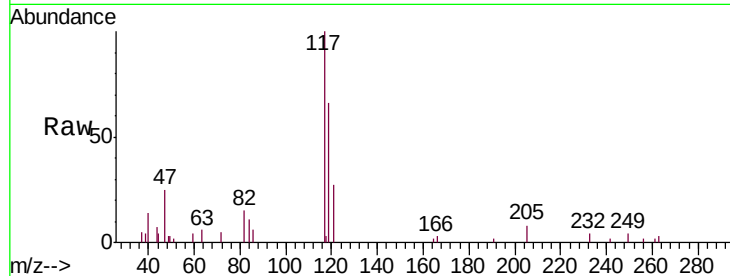
Tgt Ion: 117 Resp: 6979

Ion Ratio Lower Upper

117 100

119 63.6 79.5 119.3#

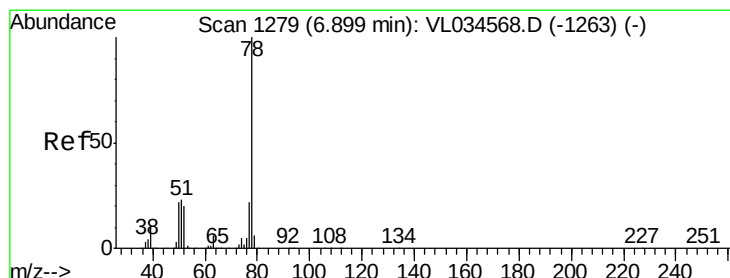
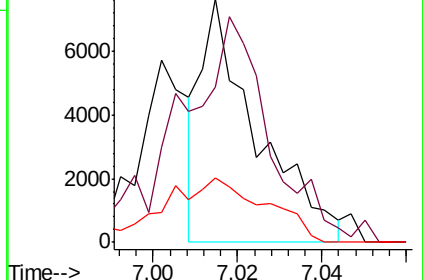
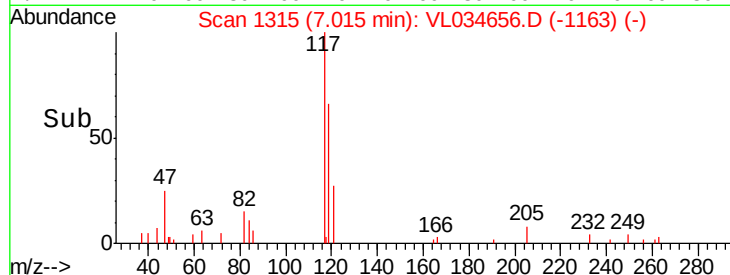
121 29.0 26.2 39.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.097 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.01 min

Lab File: VL034656.D

Acq: 19 Feb 2020 22:21

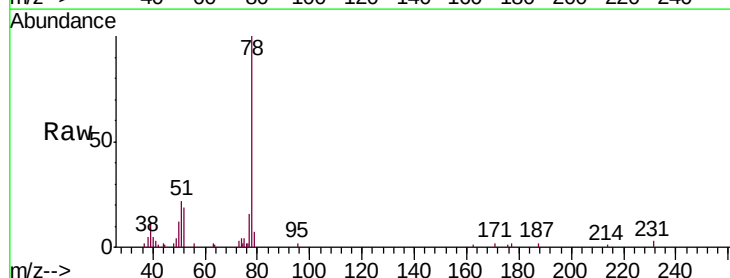
Tgt Ion: 78 Resp: 13752

Ion Ratio Lower Upper

78 100

77 16.5 17.3 25.9#

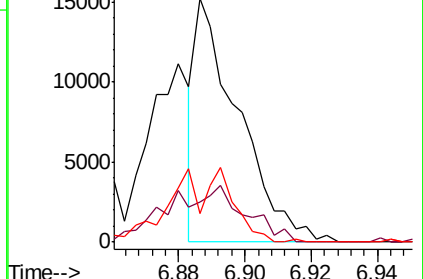
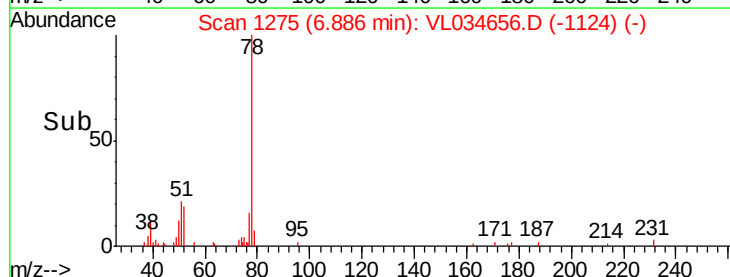
50 11.9 17.4 26.2#

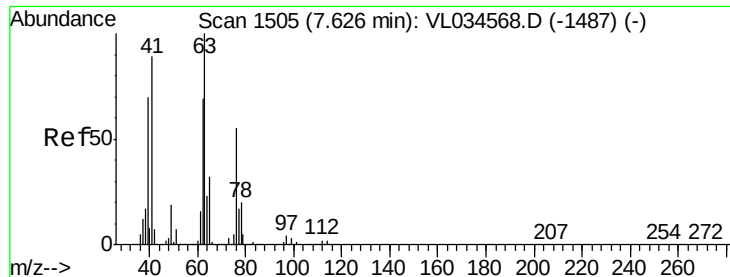


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

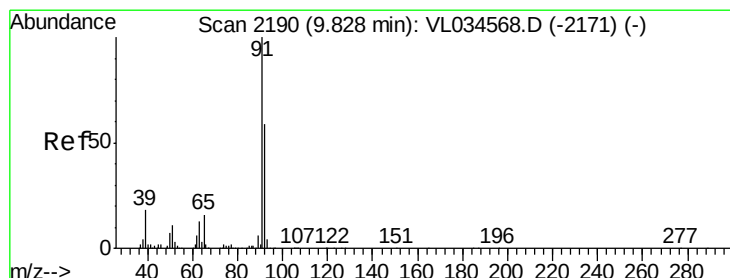
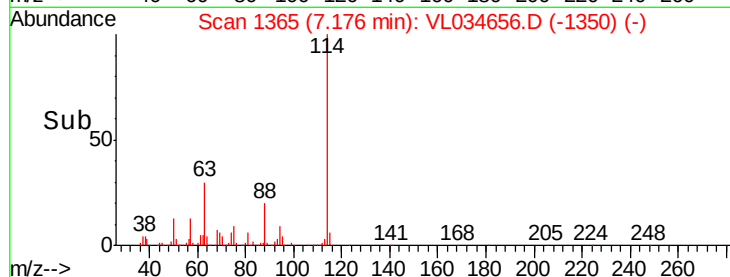
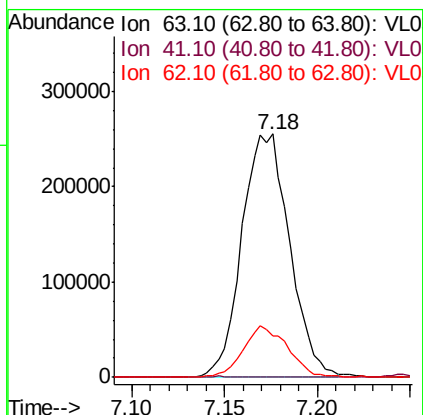
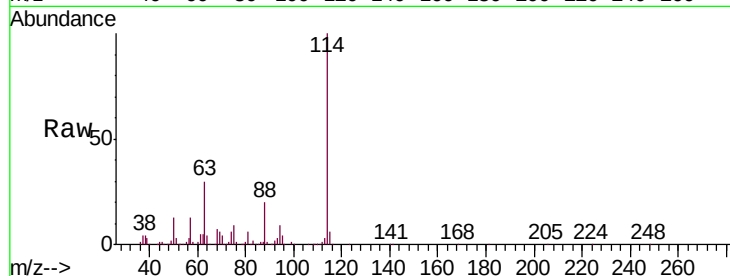




#39
 1,2-Dichloropropane
 Concen: 7.726 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.45 min
 Lab File: VL034656.D
 Acq: 19 Feb 2020 22:21

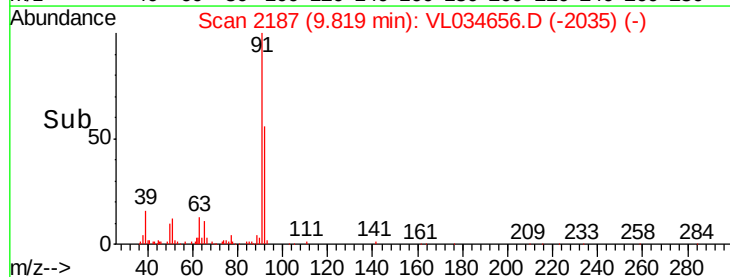
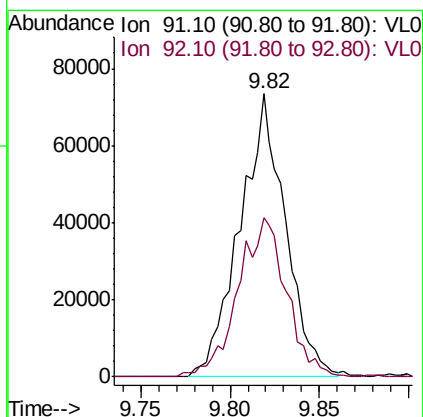
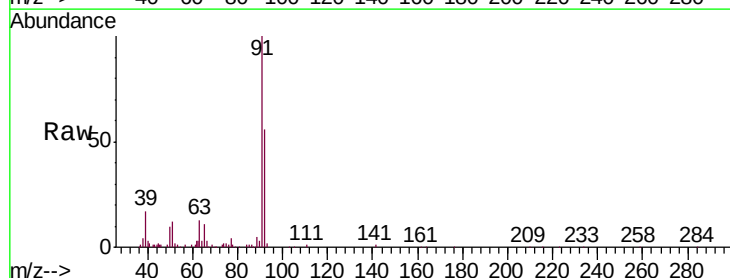
Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

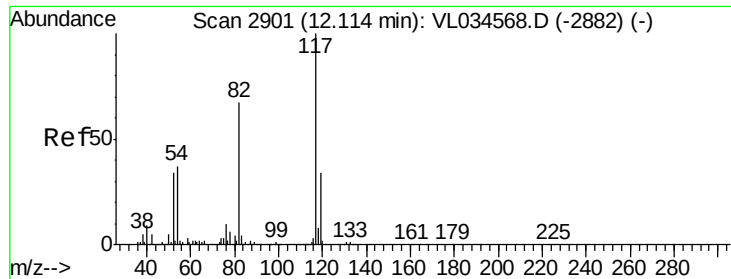
Tgt Ion: 63 Resp: 453338
 Ion Ratio Lower Upper
 63 100
 41 0.0 71.0 106.4#
 62 17.3 55.4 83.0#



#53
 Toluene
 Concen: 0.840 ppbv
 RT: 9.82 min Scan# 2187
 Delta R.T. -0.01 min
 Lab File: VL034656.D
 Acq: 19 Feb 2020 22:21

Tgt Ion: 91 Resp: 130669
 Ion Ratio Lower Upper
 91 100
 92 59.8 48.2 72.2

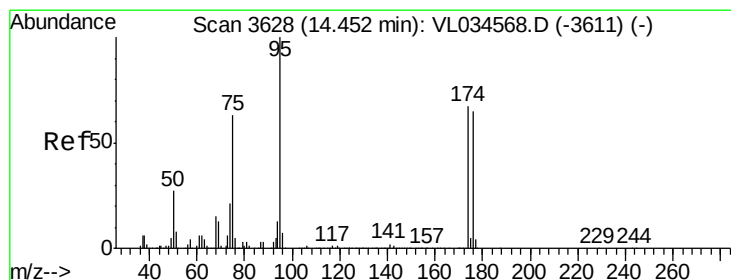
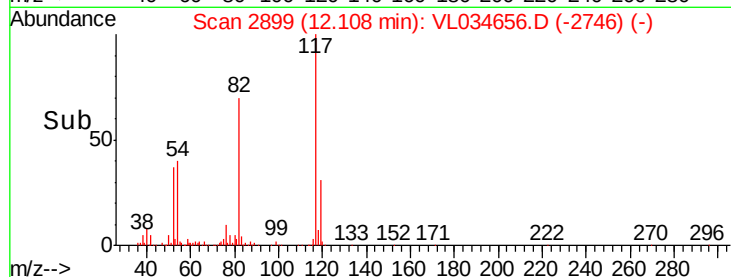
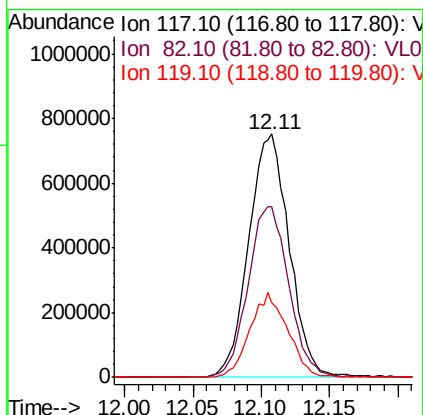
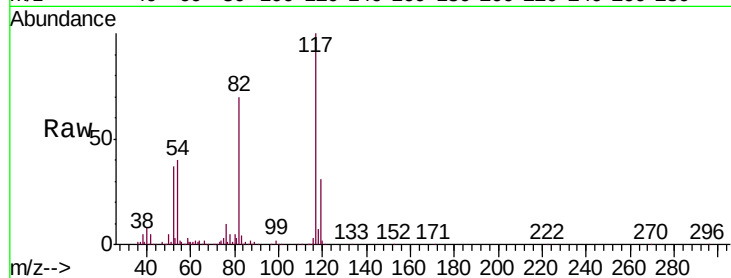




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.01 min
Lab File: VL034656.D
Acq: 19 Feb 2020 22:21

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tgt Ion: 117 Resp: 1543285
Ion Ratio Lower Upper
117 100
82 71.1 54.2 81.4
119 33.0 26.1 39.1



#68
1-Bromo-4-Fluorobenzene
Concen: 10.308 ppbv
RT: 14.44 min Scan# 3624
Delta R.T. -0.01 min
Lab File: VL034656.D
Acq: 19 Feb 2020 22:21

Tgt Ion: 95 Resp: 1344420
Ion Ratio Lower Upper
95 100
174 63.7 52.3 78.5
175 4.4 3.8 5.6

