

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120720\
 Data File : VL036081.D
 Acq On : 8 Dec 2020 1:47
 Operator : SY/AP
 Sample : L4948-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Quant Time: Dec 08 08:41:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1155090	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2556647	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2303711	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1872275	10.24	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

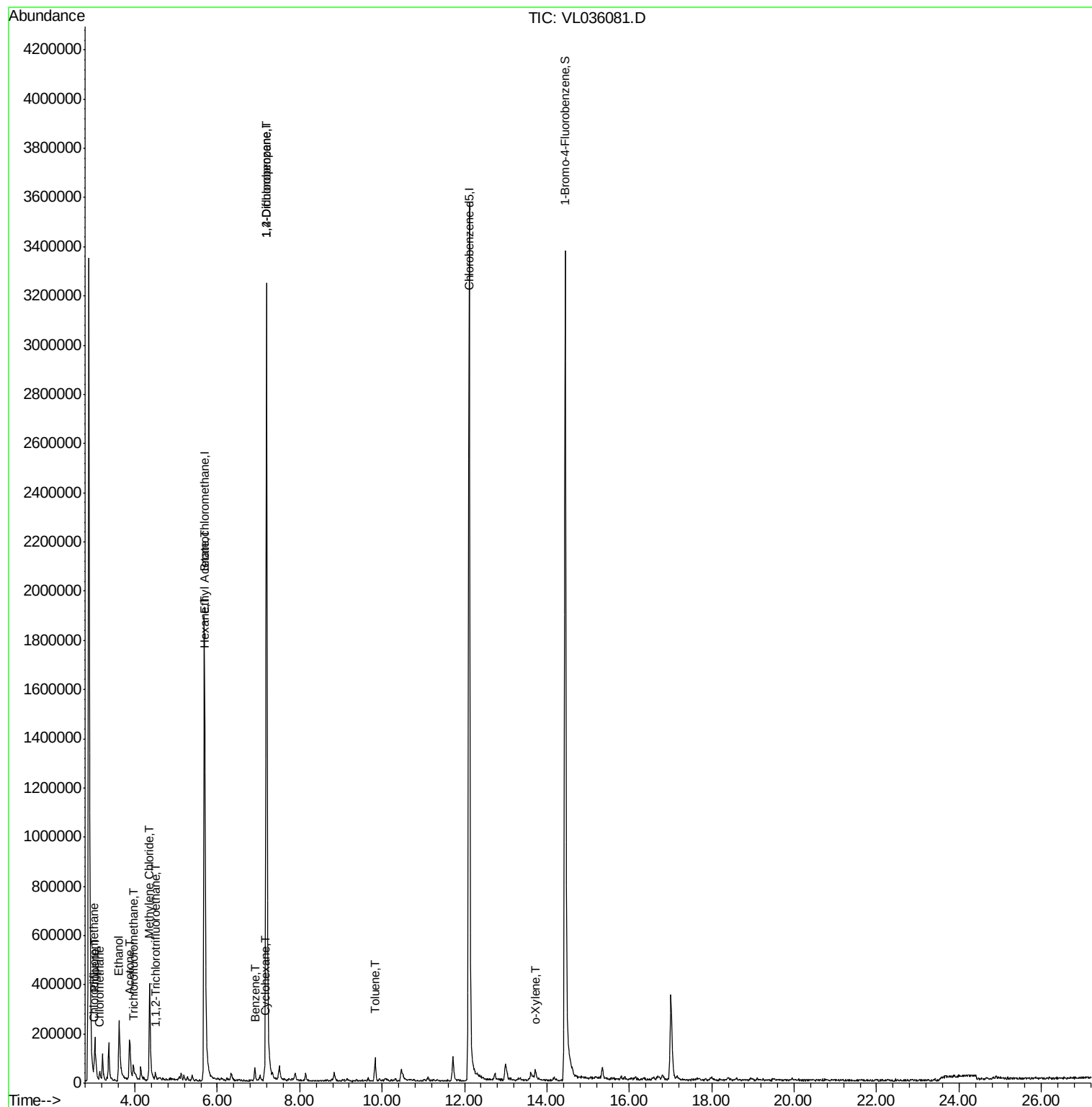
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.00	51	47743	0.362	ppbv	93
4) Chloromethane	3.15	50	17066	0.264	ppbv	94
9) Propene	3.02	41	41312	0.626	ppbv	86
11) Trichlorofluoromethane	3.96	101	38606	0.244	ppbv #	80
12) 1,1,2-Trichlorotrifluoroet	4.49	101	6490	0.060	ppbv	84
13) Ethanol	3.62	45	222873	24.489	ppbv	71
15) Acetone	3.87	43	150728	1.086	ppbv #	80
20) Methylene Chloride	4.36	84	154211	2.711	ppbv	98
25) Ethyl Acetate	5.70	43	114005	0.411	ppbv #	81
26) Hexane	5.70	57	148038	1.186	ppbv #	40
30) Cyclohexane	7.15	84	11643	0.127	ppbv #	8
36) Benzene	6.92	78	41326	0.191	ppbv	96
39) 1,2-Dichloropropane	7.19	63	745253	8.710	ppbv #	24
53) Toluene	9.83	91	65594	0.270	ppbv	95
60) o-Xylene	13.73	91	8056	0.032	ppbv #	33

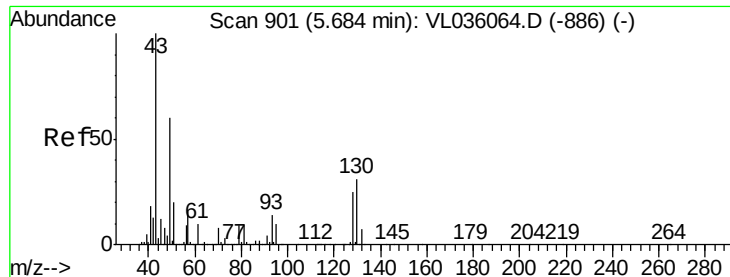
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 08 08:41:00 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration

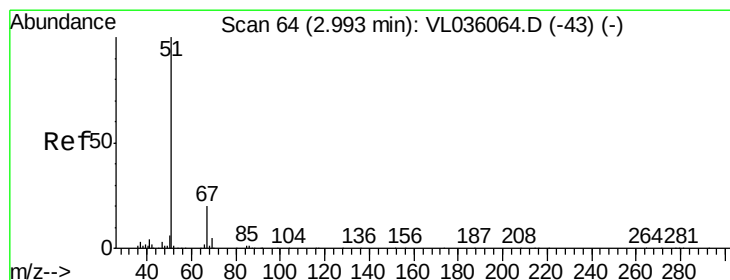
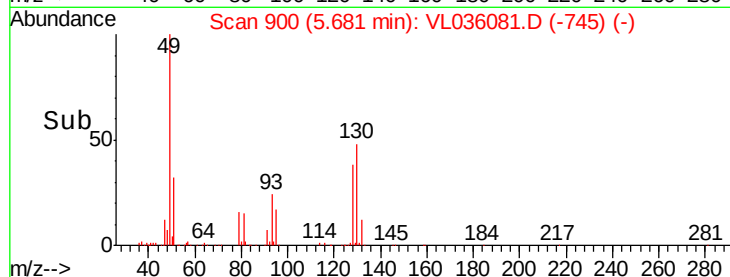
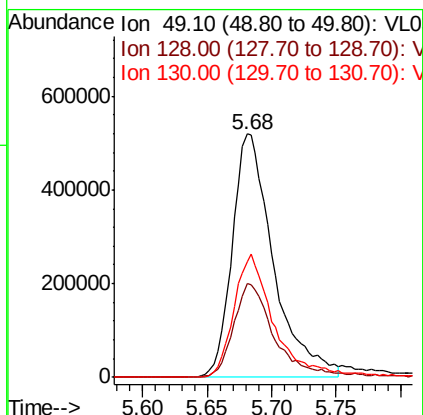
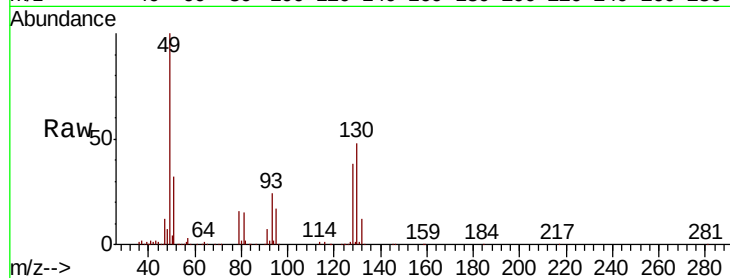




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL036081.D
Acq: 8 Dec 2020 1:47

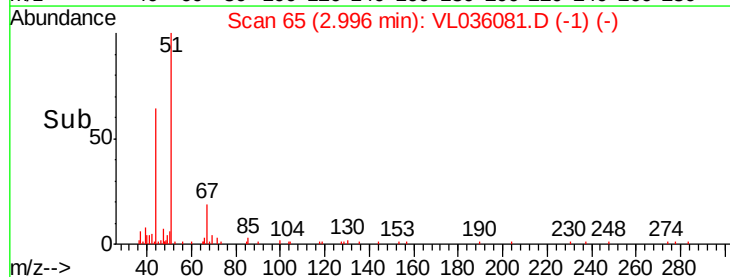
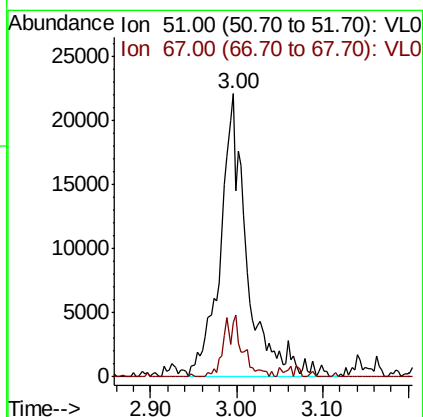
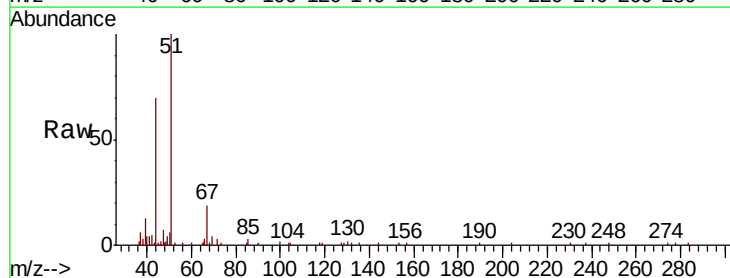
Instrument :
MSVOA_L
ClientSampleId :
AA-1

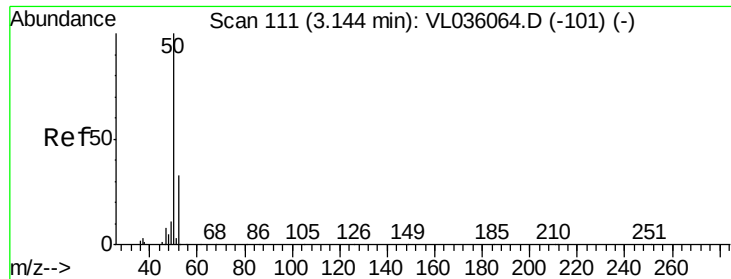
Tot Ion: 49 Resp: 1155090
Ion Ratio Lower Upper
49 100
128 39.2 21.1 63.1
130 50.4 27.1 81.3



#3
Chlorodifluoromethane
Concen: 0.362 ppbv
RT: 3.00 min Scan# 65
Delta R.T. 0.00 min
Lab File: VL036081.D
Acq: 8 Dec 2020 1:47

Tgt Ion: 51 Resp: 47743
Ion Ratio Lower Upper
51 100
67 14.9 14.3 21.5





#4

Chloromethane

Concen: 0.264 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL036081.D

Acq: 8 Dec 2020 1:47

Instrument :

MSVOA_L

ClientSampleId :

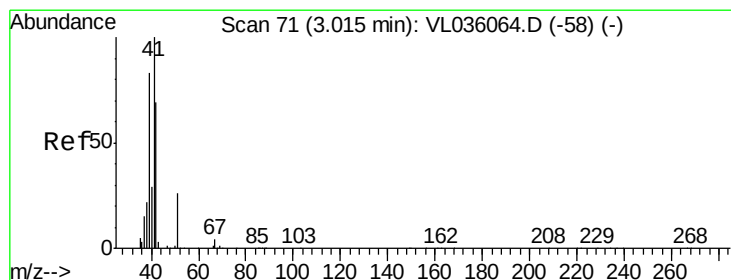
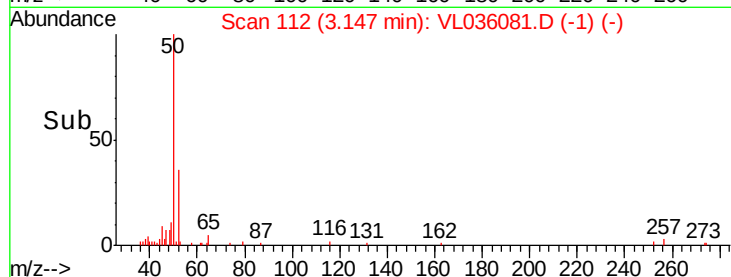
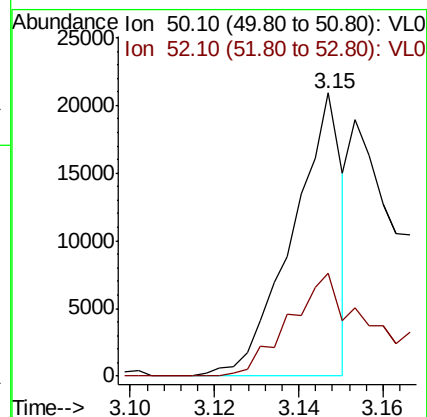
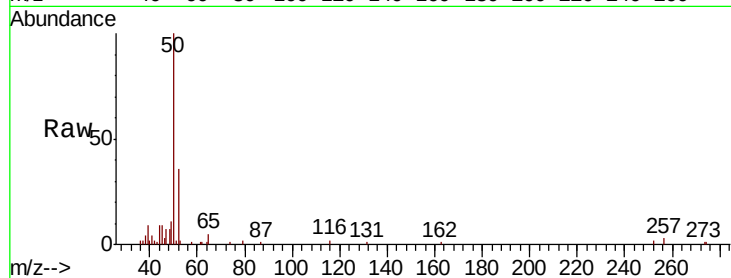
AA-1

Tot Ion: 50 Resp: 17066

Ion Ratio Lower Upper

50 100

52 36.2 26.1 39.1



#9

Propene

Concen: 0.626 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL036081.D

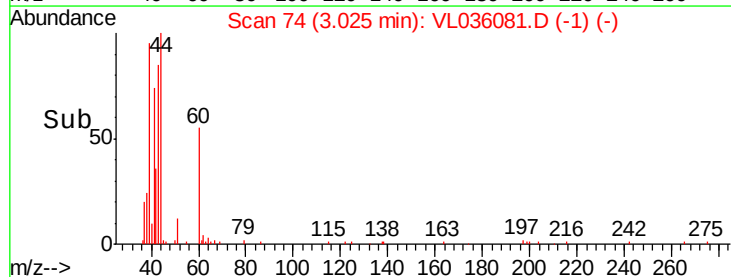
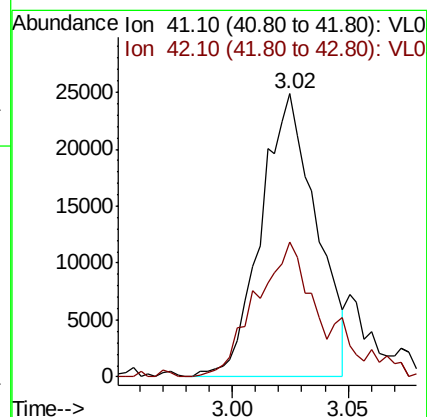
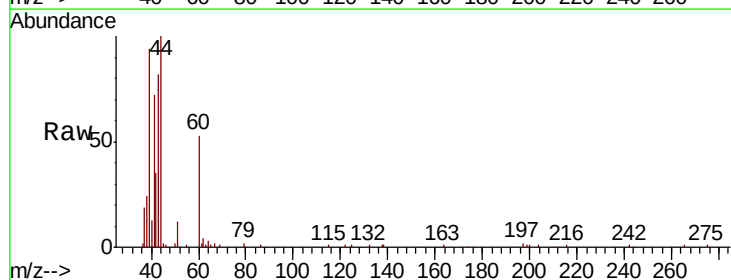
Acq: 8 Dec 2020 1:47

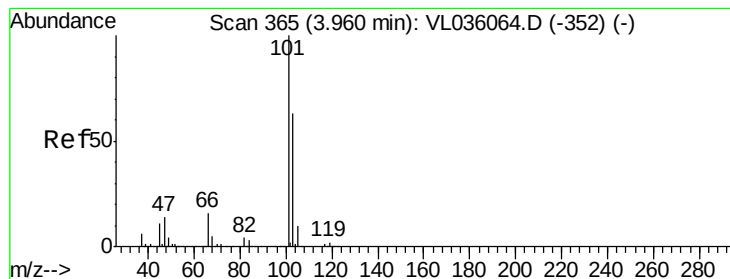
Tgt Ion: 41 Resp: 41312

Ion Ratio Lower Upper

41 100

42 59.8 57.0 85.6





#11

Trichlorofluoromethane

Concen: 0.244 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.00 min

Lab File: VL036081.D

Acq: 8 Dec 2020 1:47

Instrument :

MSVOA_L

ClientSampleId :

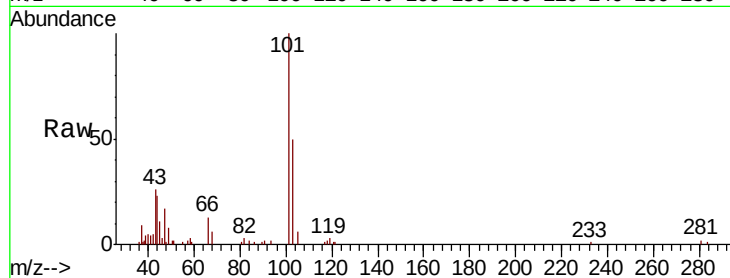
AA-1

Tot Ion:101 Resp: 38606

Ion Ratio Lower Upper

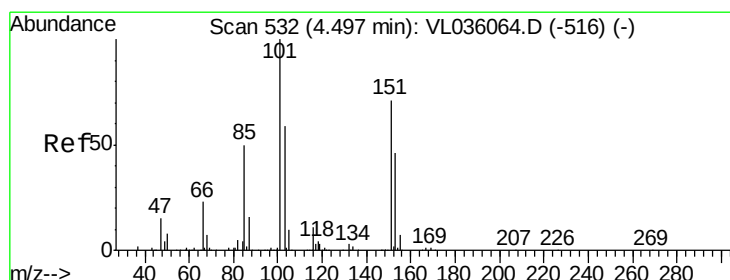
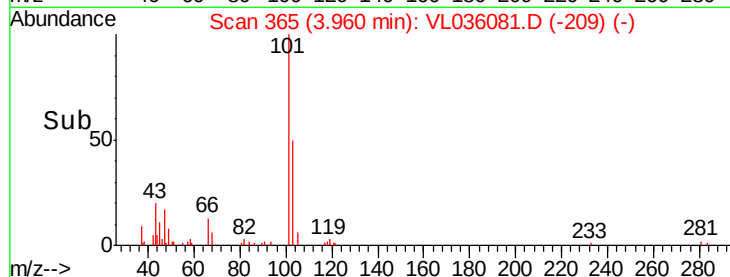
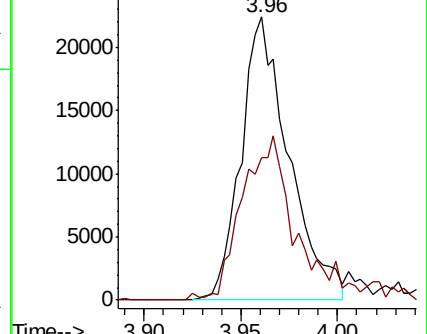
101 100

103 47.5 50.3 75.5#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.060 ppbv

RT: 4.49 min Scan# 531

Delta R.T. -0.00 min

Lab File: VL036081.D

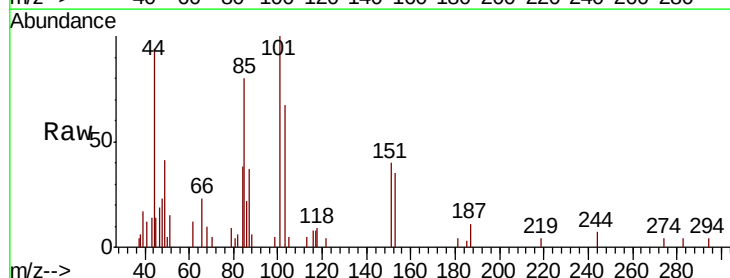
Acq: 8 Dec 2020 1:47

Tgt Ion:101 Resp: 6490

Ion Ratio Lower Upper

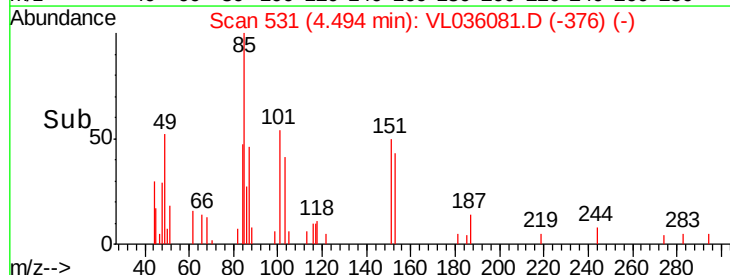
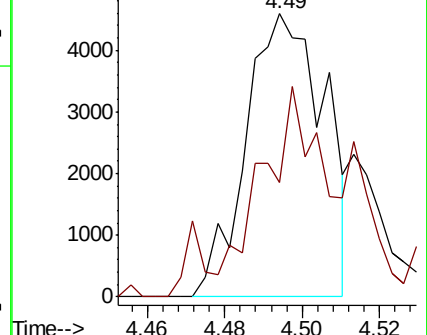
101 100

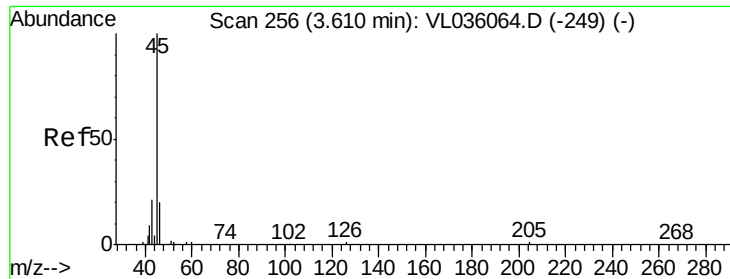
151 88.0 59.3 88.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 24.489 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.01 min

Lab File: VL036081.D

Acq: 8 Dec 2020 1:47

Instrument :

MSVOA_L

ClientSampleId :

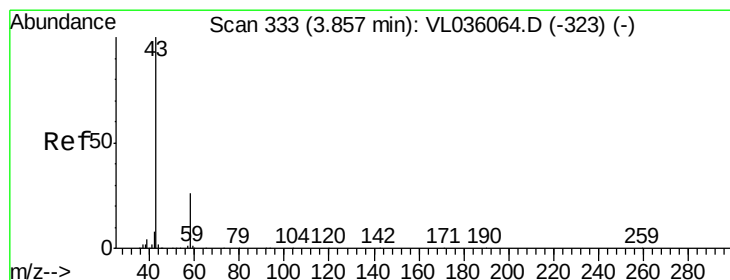
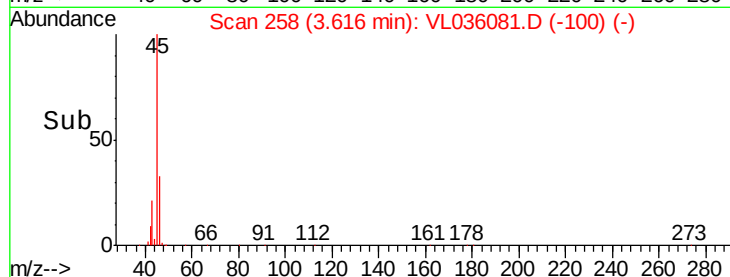
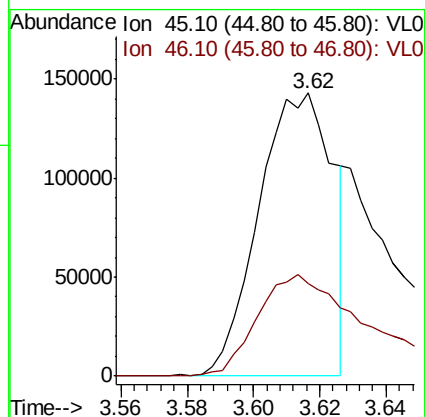
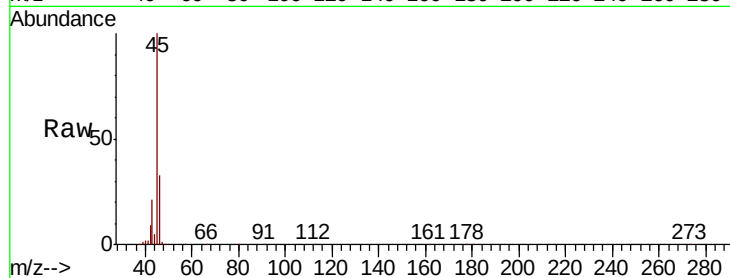
AA-1

Tot Ion: 45 Resp: 222873

Ion Ratio Lower Upper

45 100

46 66.9 19.0 75.8



#15

Acetone

Concen: 1.086 ppbv

RT: 3.87 min Scan# 337

Delta R.T. 0.01 min

Lab File: VL036081.D

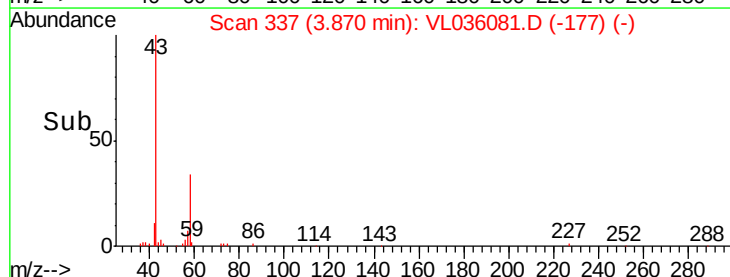
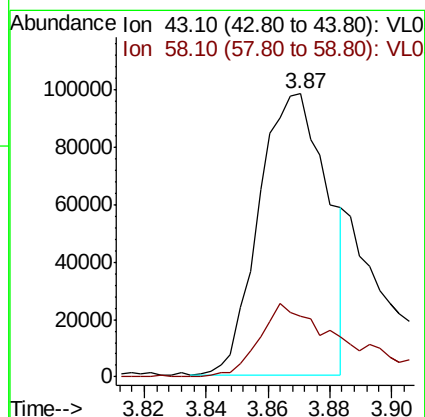
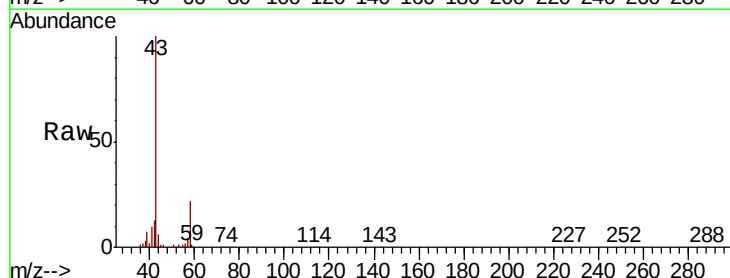
Acq: 8 Dec 2020 1:47

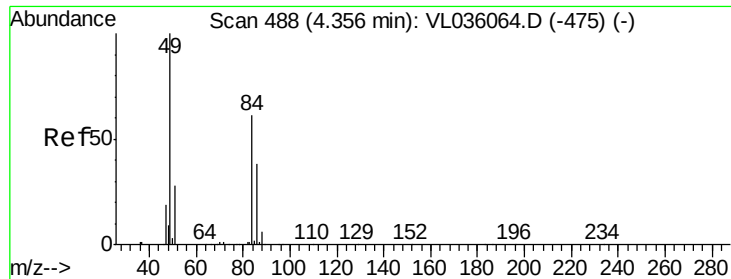
Tgt Ion: 43 Resp: 150728

Ion Ratio Lower Upper

43 100

58 36.4 20.9 31.3#

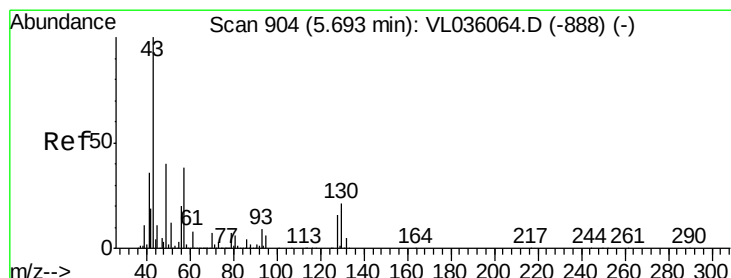
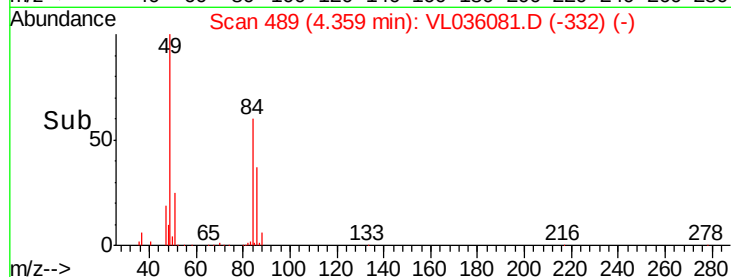
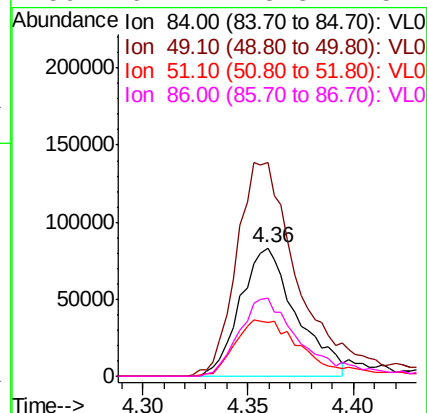
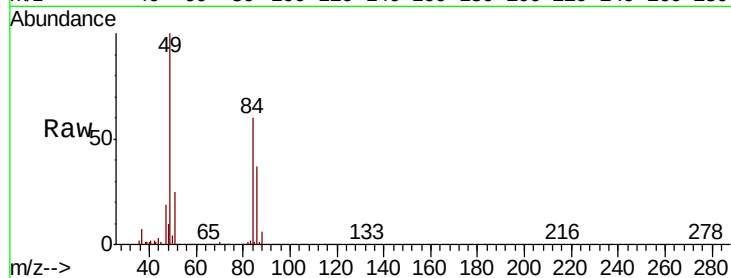




#20
Methylene Chloride
Concen: 2.711 ppbv
RT: 4.36 min Scan# 489
Delta R.T. 0.00 min
Lab File: VL036081.D
Acq: 8 Dec 2020 1:47

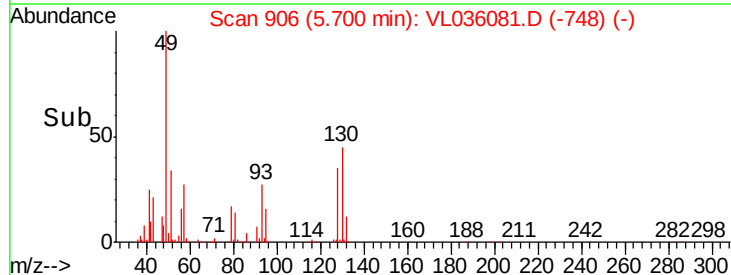
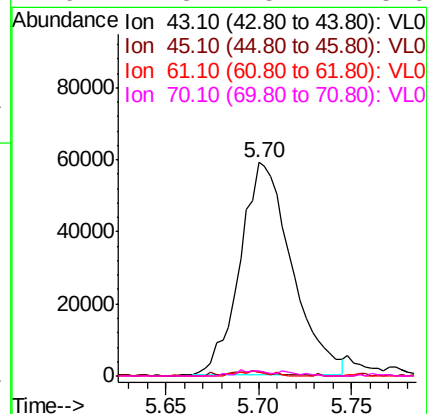
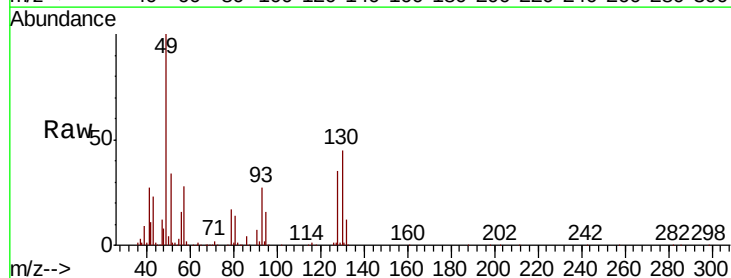
Instrument :
MSVOA_L
ClientSampleId :
AA-1

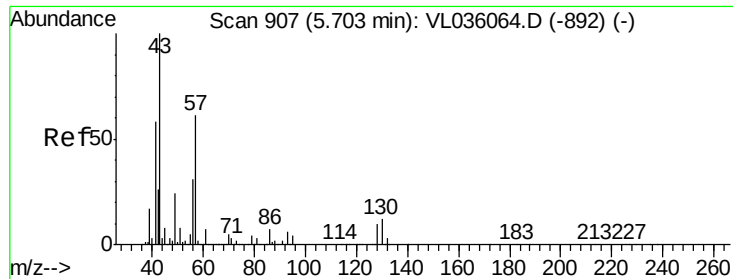
Tot Ion:	84	Resp:	154211
Ion	Ratio	Lower	Upper
84	100		
49	165.0	133.0	199.4
51	42.1	38.9	58.3
86	61.1	48.8	73.2



#25
Ethyl Acetate
Concen: 0.411 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.01 min
Lab File: VL036081.D
Acq: 8 Dec 2020 1:47

Tgt Ion:	43	Resp:	114005
Ion	Ratio	Lower	Upper
43	100		
45	2.3	8.2	12.4#
61	1.5	7.4	11.2#
70	2.3	5.4	8.0#

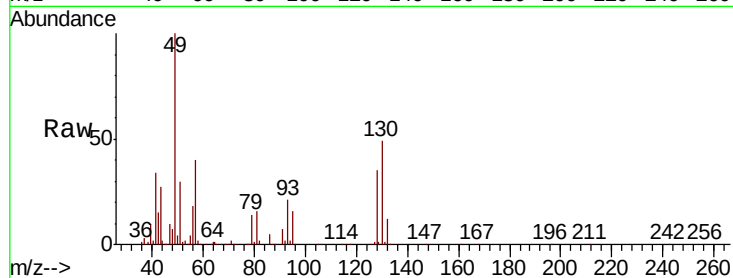




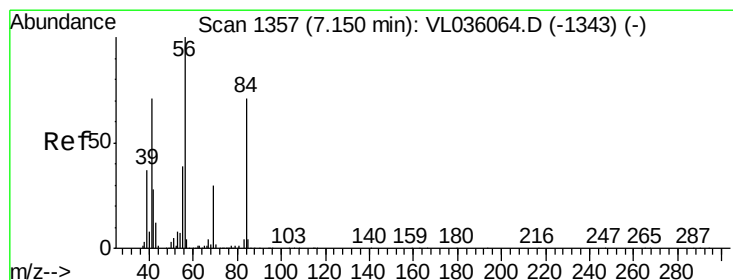
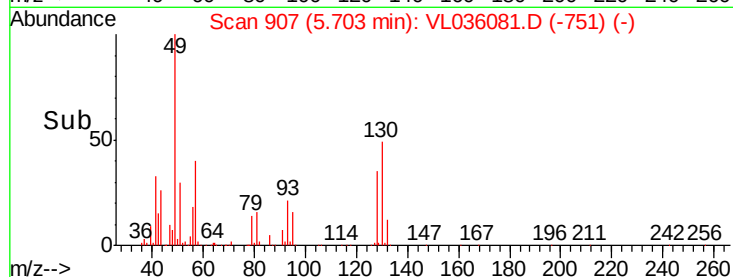
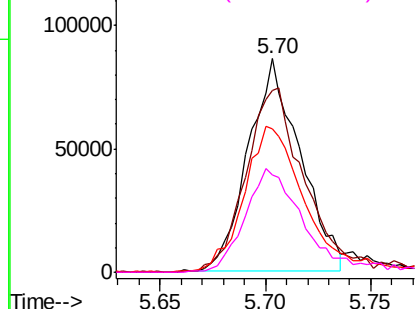
#26
Hexane
Concen: 1.186 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.00 min
Lab File: VL036081.D
Acq: 8 Dec 2020 1:47

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tot Ion: 57 Resp: 148038
Ion Ratio Lower Upper
57 100
41 102.4 82.9 124.3
43 82.1 199.9 299.9#
56 56.9 43.1 64.7

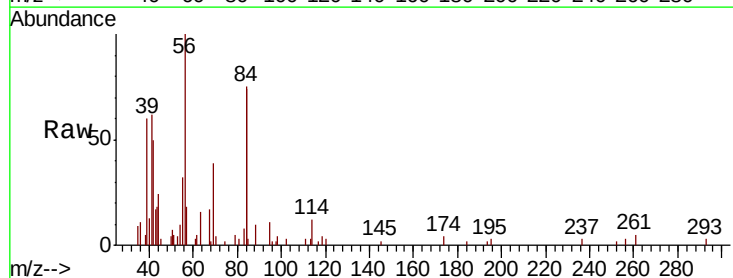


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

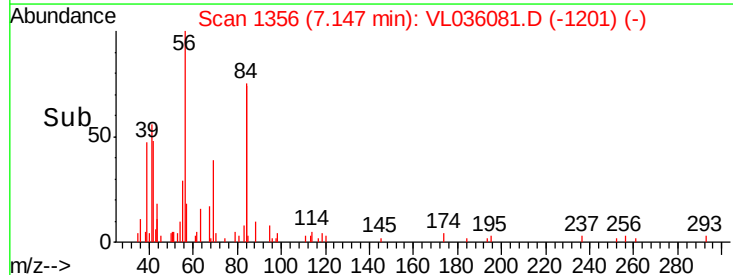
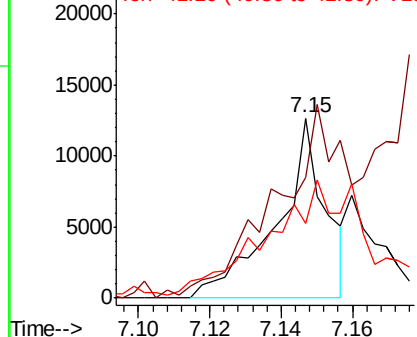


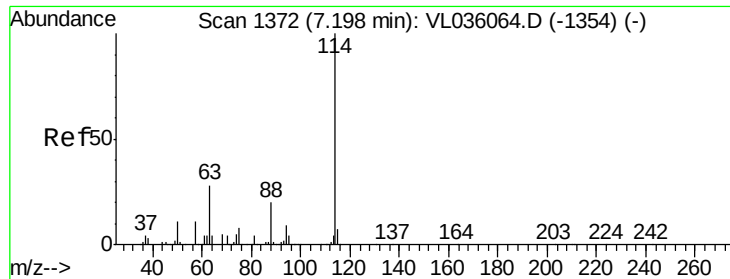
#30
Cyclohexane
Concen: 0.127 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL036081.D
Acq: 8 Dec 2020 1:47

Tgt Ion: 84 Resp: 11643
Ion Ratio Lower Upper
84 100
56 0.0 128.0 192.0#
41 148.3 81.3 121.9#



Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

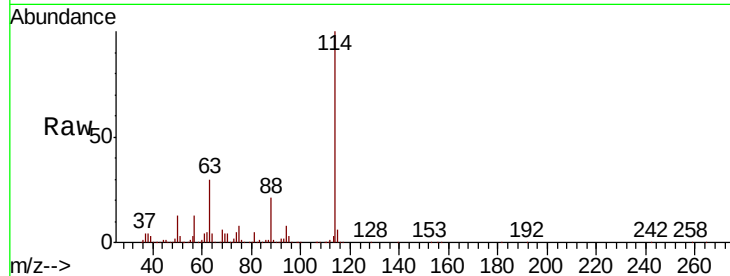




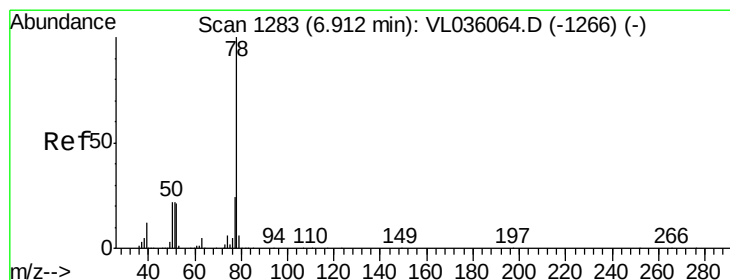
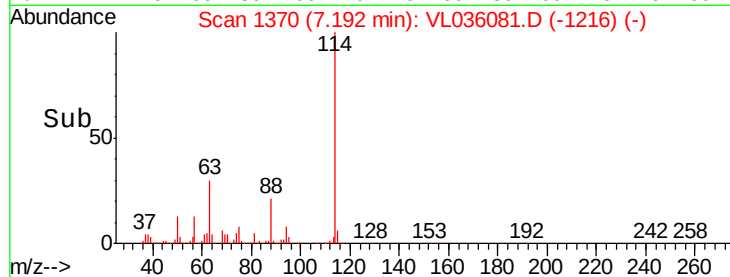
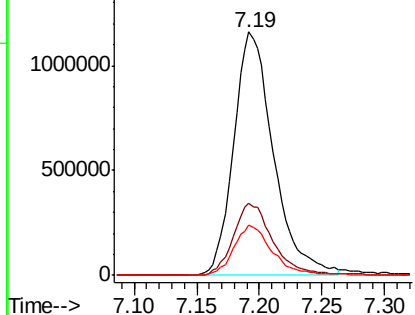
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.01 min
 Lab File: VL036081.D
 Acq: 8 Dec 2020 1:47

Instrument :
 MSVOA_L
 ClientSampled :
 AA-1

Tot Ion:114 Resp: 2556647
 Ion Ratio Lower Upper
 114 100
 63 30.3 23.6 35.4
 88 20.4 15.8 23.6

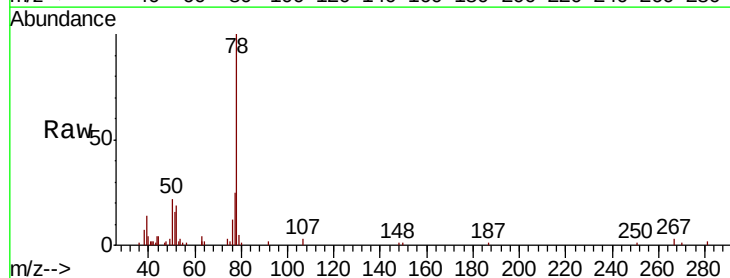


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

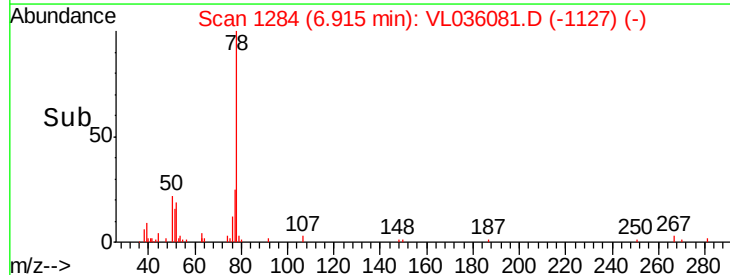
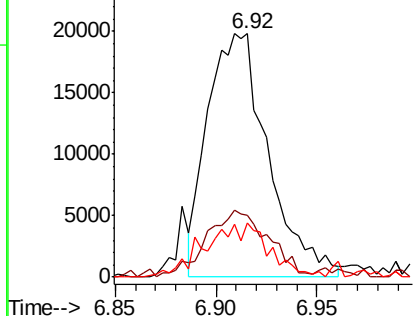


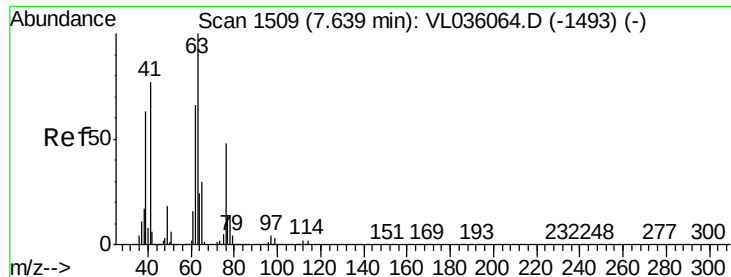
#36
 Benzene
 Concen: 0.191 ppbv
 RT: 6.92 min Scan# 1284
 Delta R.T. 0.00 min
 Lab File: VL036081.D
 Acq: 8 Dec 2020 1:47

Tgt Ion: 78 Resp: 41326
 Ion Ratio Lower Upper
 78 100
 77 22.9 19.4 29.2
 50 19.9 17.8 26.8



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: 8.710 ppbv

RT: 7.19 min Scan# 1370

Delta R.T. -0.45 min

Lab File: VL036081.D

Acq: 8 Dec 2020 1:47

Instrument :

MSVOA_L

ClientSampleId :

AA-1

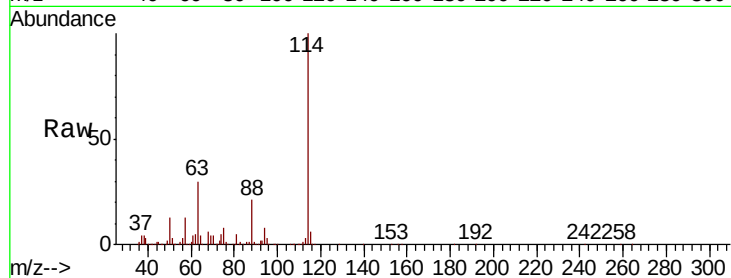
Tot Ion: 63 Resp: 745253

Ion Ratio Lower Upper

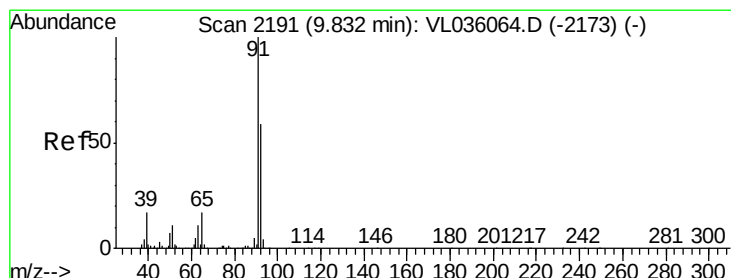
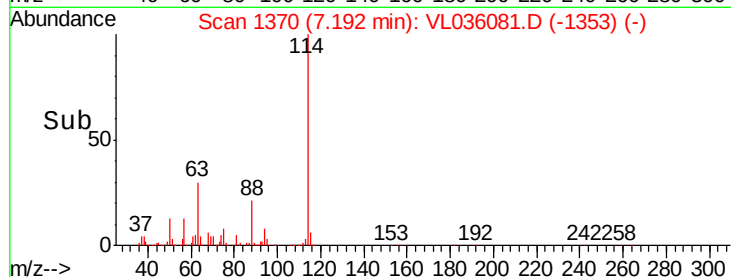
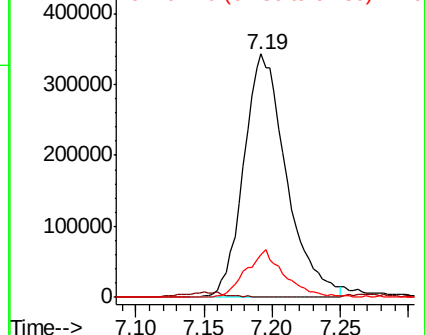
63 100

41 0.0 61.9 92.9#

62 17.4 52.5 78.7#



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: 0.270 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VL036081.D

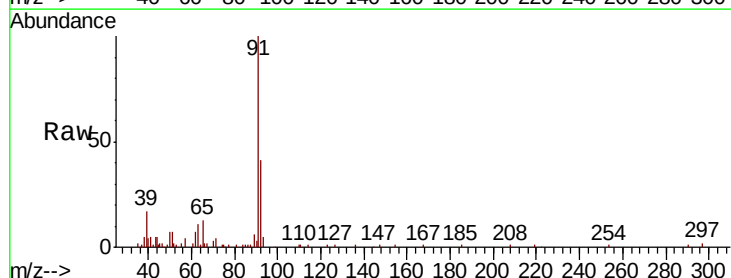
Acq: 8 Dec 2020 1:47

Tgt Ion: 91 Resp: 65594

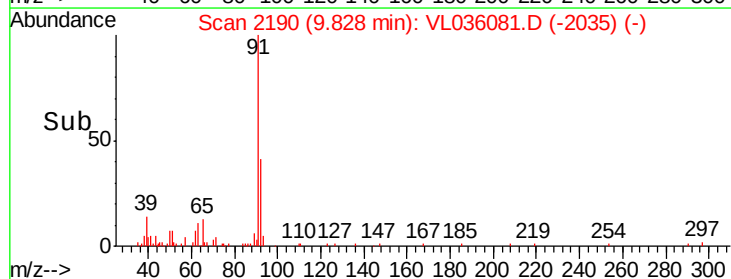
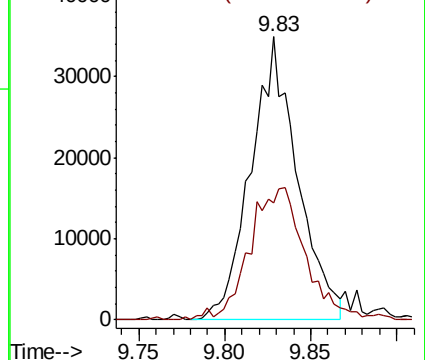
Ion Ratio Lower Upper

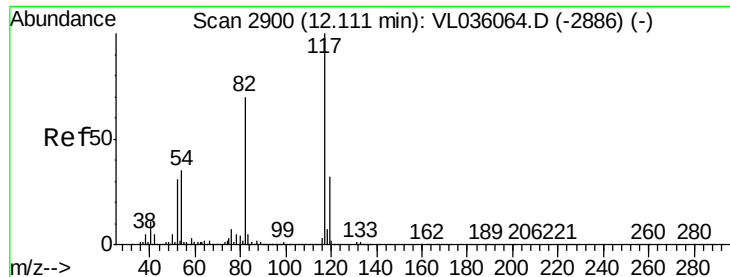
91 100

92 56.5 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0

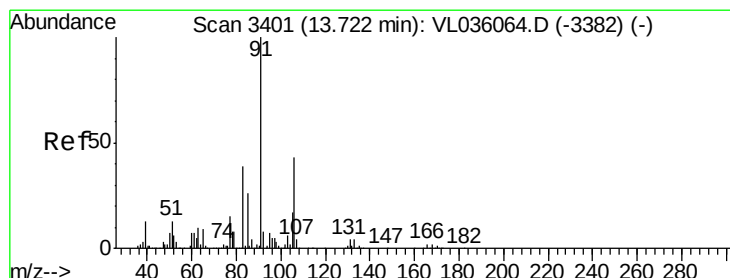
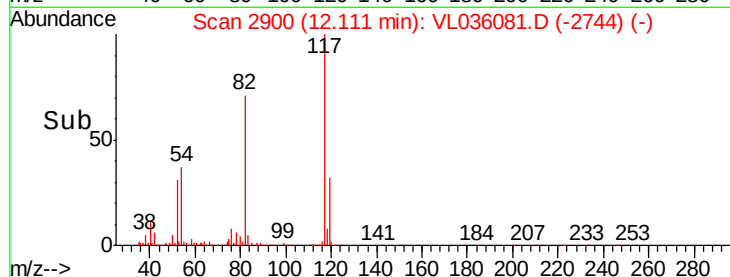
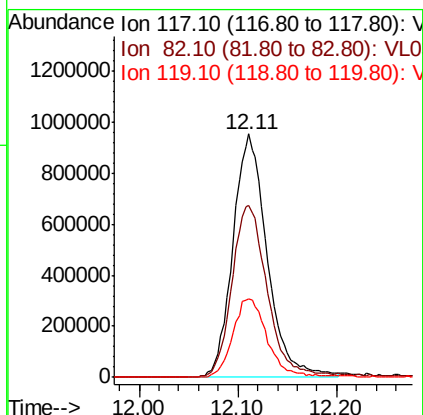
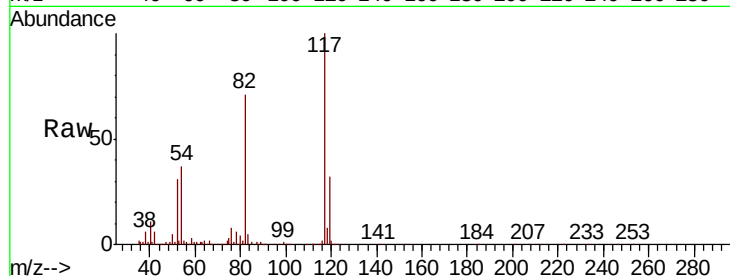




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. 0.00 min
Lab File: VL036081.D
Acq: 8 Dec 2020 1:47

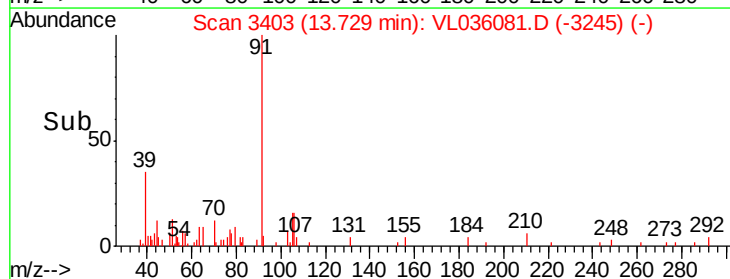
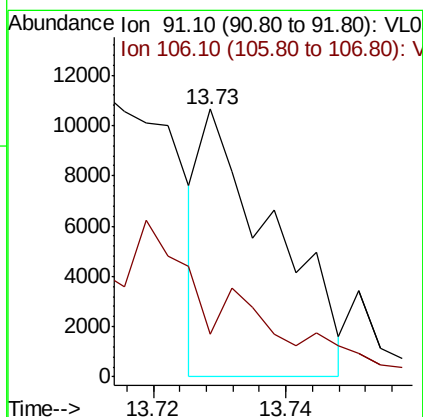
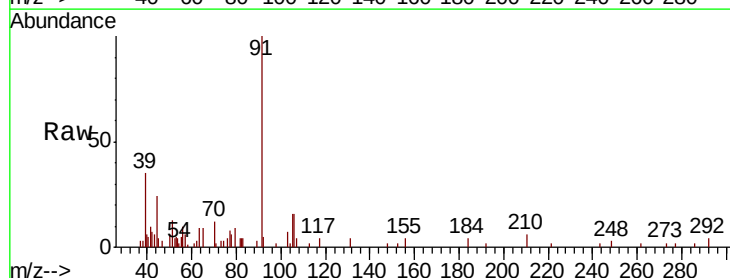
Instrument :
MSVOA_L
ClientSampled :
AA-1

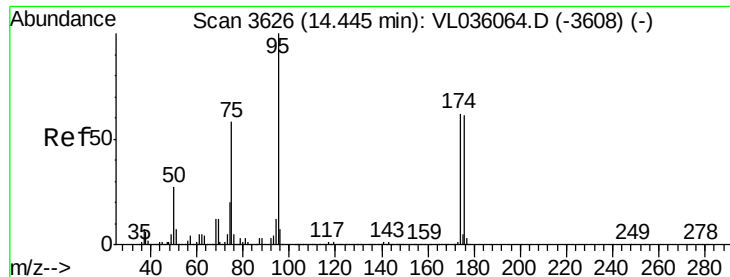
Tot Ion:117 Resp: 2303711
Ion Ratio Lower Upper
117 100
82 74.4 0.0 0.0#
119 32.9 0.0 0.0#



#60
o-Xylene
Concen: 0.032 ppbv
RT: 13.73 min Scan# 3403
Delta R.T. 0.01 min
Lab File: VL036081.D
Acq: 8 Dec 2020 1:47

Tgt Ion: 91 Resp: 8056
Ion Ratio Lower Upper
91 100
106 0.0 21.6 64.6#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.235 ppbv

RT: 14.45 min Scan# 3626

Delta R.T. 0.00 min

Lab File: VL036081.D

Acq: 8 Dec 2020 1:47

Instrument :

MSVOA_L

ClientSampleId :

AA-1

Tot Ion: 95 Resp: 1872275

Ion Ratio Lower Upper

95 100

174 61.6 50.7 76.1

175 4.5 4.0 6.0

