

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121620\
 Data File : VL036178.D
 Acq On : 16 Dec 2020 22:31
 Operator : SY/AP
 Sample : L5061-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 17 03:41:55 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	5.67	49	1570081	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.18	114	3072282	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	2778994	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2425324	10.99	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.90%

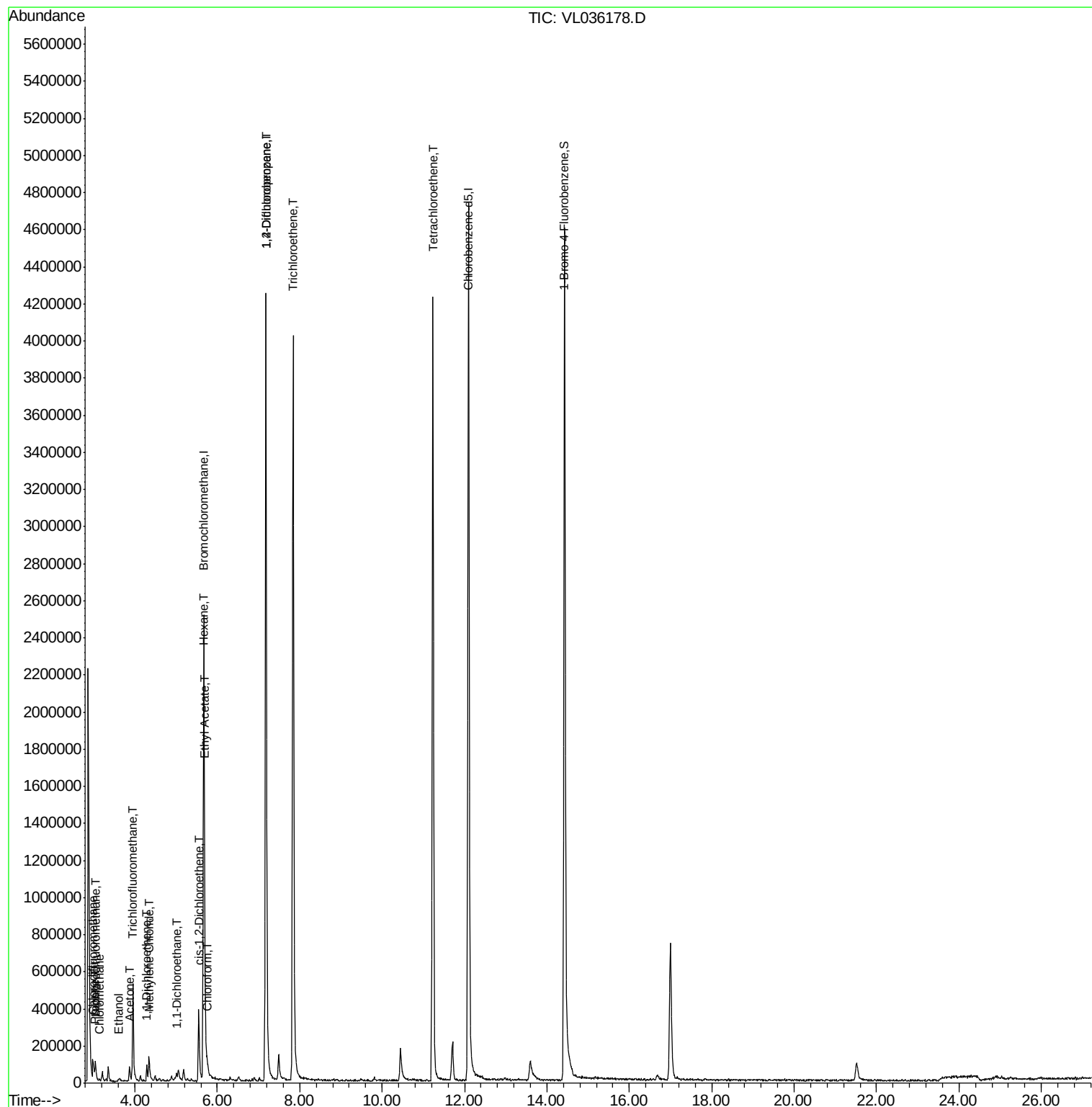
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	70511	0.385	ppbv	92
3) Chlorodifluoromethane	2.98	51	129589	0.723	ppbv	95
4) Chloromethane	3.13	50	3786	0.043	ppbv	97
9) Propene	3.02	41	3513	0.039	ppbv #	4
11) Trichlorofluoromethane	3.95	101	397310	1.847	ppbv	97
13) Ethanol	3.61	45	4816	0.389	ppbv #	29
15) Acetone	3.87	43	40459	0.214	ppbv #	49
18) 1,1-Dichloroethene	4.29	96	22307	0.344	ppbv	93
20) Methylene Chloride	4.34	84	17310	0.224	ppbv	93
24) 1,1-Dichloroethane	5.01	63	29051	0.164	ppbv #	96
25) Ethyl Acetate	5.69	43	40901	0.108	ppbv #	87
26) Hexane	5.69	57	47950	0.283	ppbv #	37
29) Chloroform	5.75	83	11044	0.050	ppbv	89
31) cis-1,2-Dichloroethene	5.55	61	267854	1.737	ppbv #	87
38) Trichloroethene	7.84	130	1181333	12.137	ppbv	91
39) 1,2-Dichloropropane	7.18	63	1020407	9.924	ppbv #	24
52) Tetrachloroethene	11.23	164	900919	9.558	ppbv	93

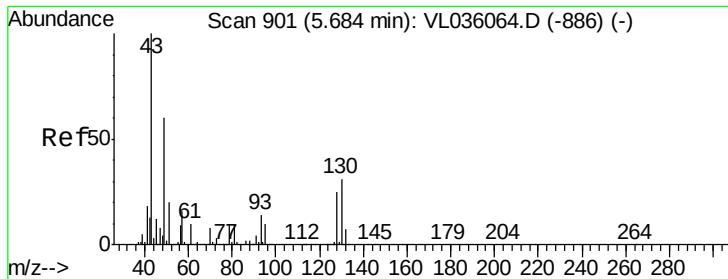
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.02 min

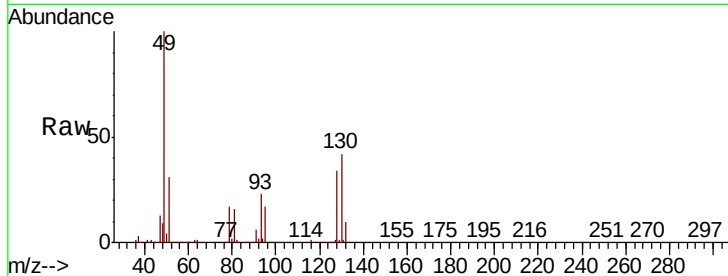
Lab File: VL036178.D

Acq: 16 Dec 2020 22:31

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1570081

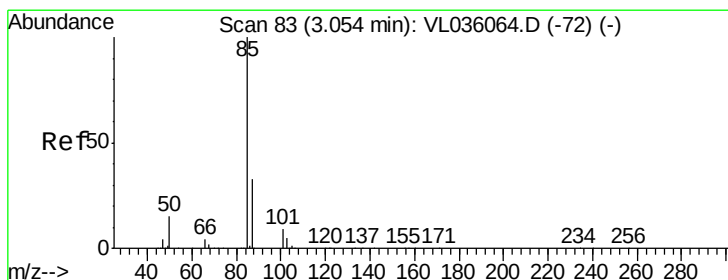
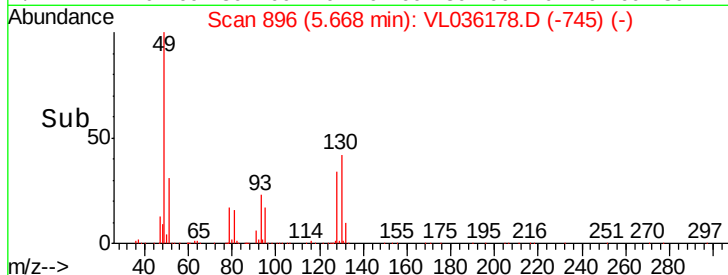
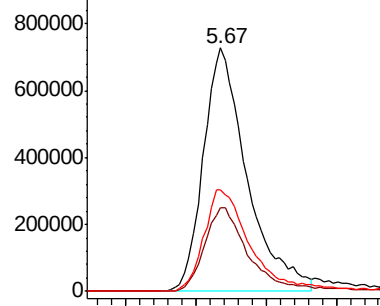
Ion	Ratio	Lower	Upper
49	100		
128	35.9	21.1	63.1
130	46.3	27.1	81.3



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: 0.385 ppbv

RT: 3.04 min Scan# 80

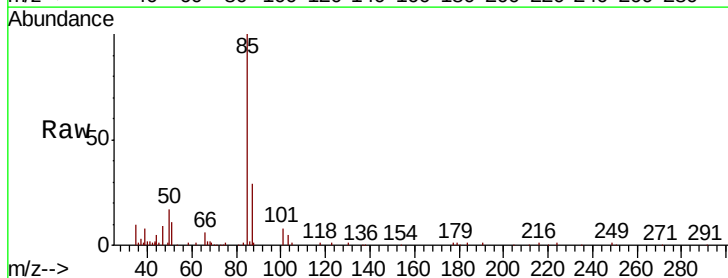
Delta R.T. -0.01 min

Lab File: VL036178.D

Acq: 16 Dec 2020 22:31

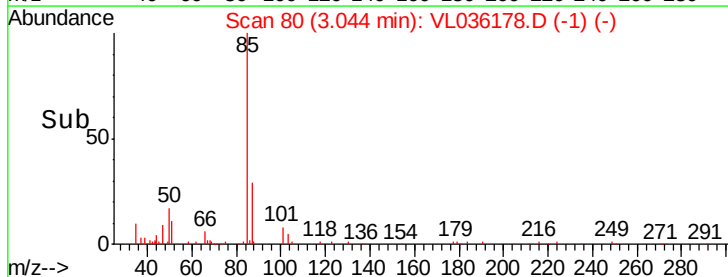
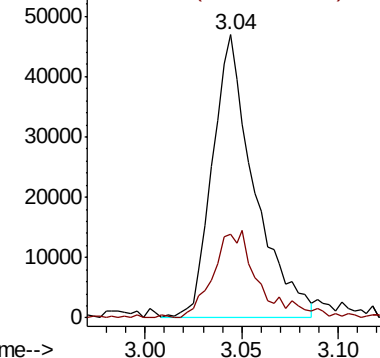
Tgt Ion: 85 Resp: 70511

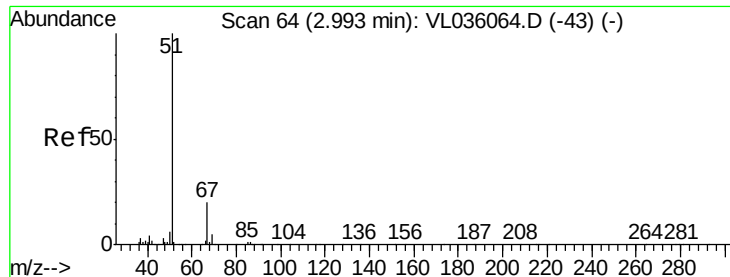
Ion	Ratio	Lower	Upper
85	100		
87	28.4	26.5	39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.723 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.01 min

Lab File: VL036178.D

Acq: 16 Dec 2020 22:31

Instrument :

MSVOA_L

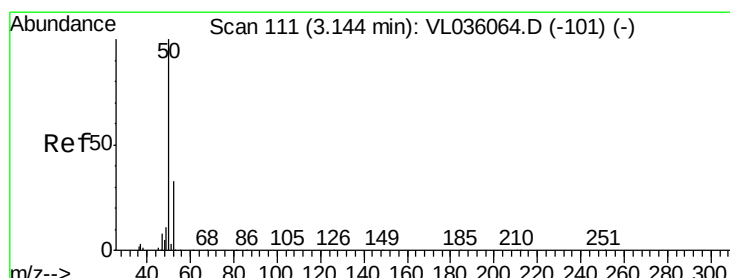
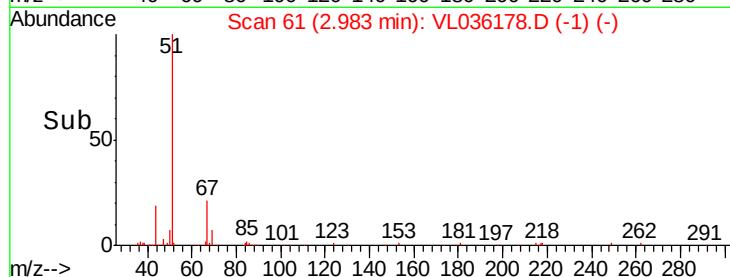
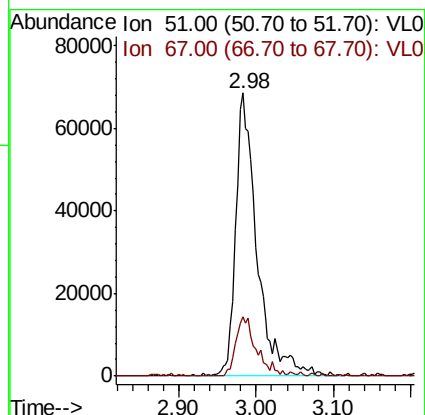
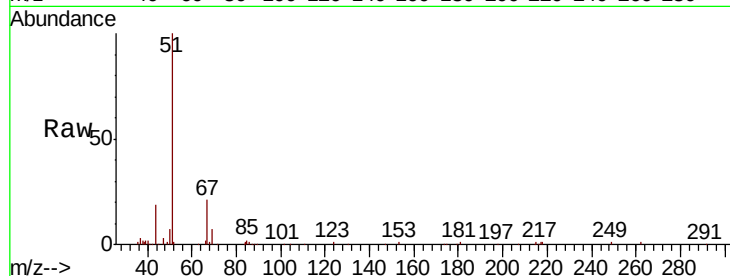
ClientSampleId :

Tot Ion: 51 Resp: 129589

Ion Ratio Lower Upper

51 100

67 20.1 14.3 21.5



#4

Chloromethane

Concen: 0.043 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL036178.D

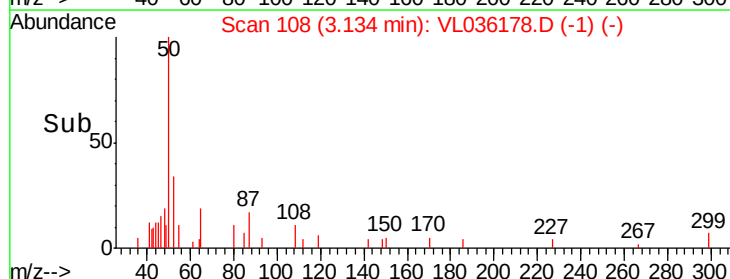
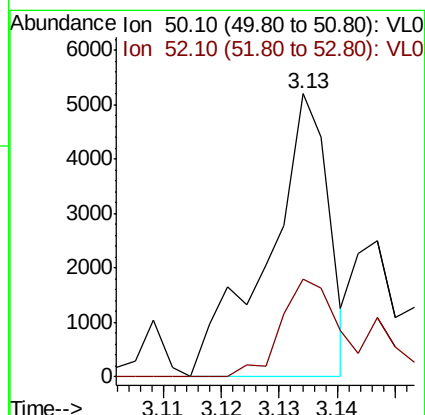
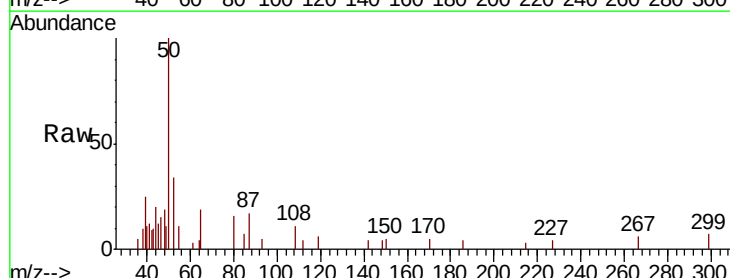
Acq: 16 Dec 2020 22:31

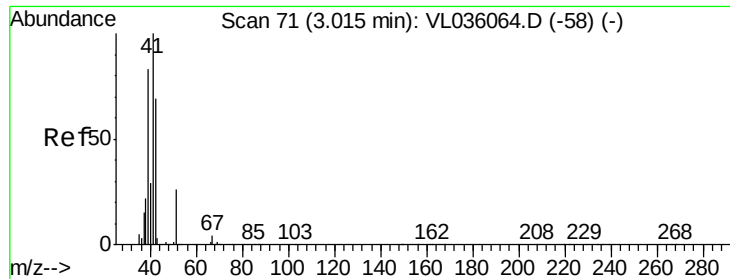
Tgt Ion: 50 Resp: 3786

Ion Ratio Lower Upper

50 100

52 34.4 26.1 39.1





#9

Propene

Concen: 0.039 ppbv

RT: 3.02 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL036178.D

Acq: 16 Dec 2020 22:31

Instrument :

MSVOA_L

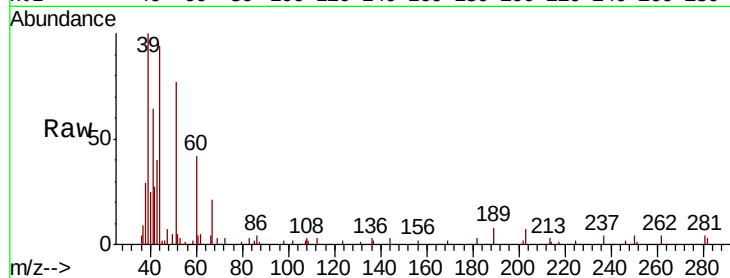
ClientSampleId :

Tot Ion: 41 Resp: 3513

Ion Ratio Lower Upper

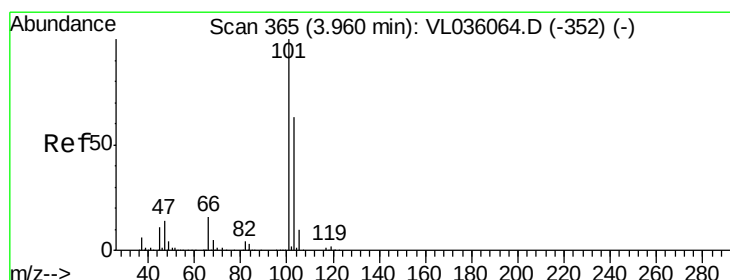
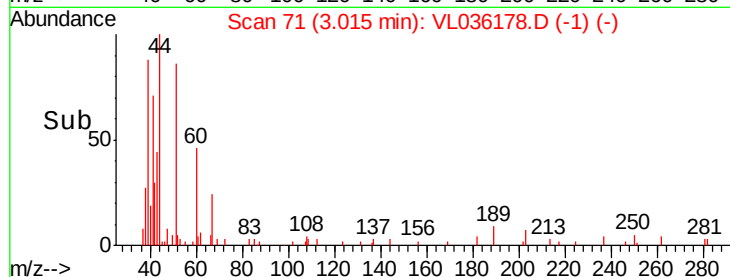
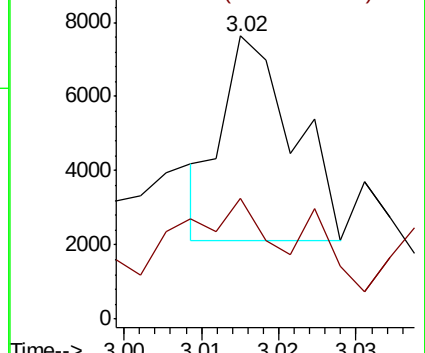
41 100

42 150.8 57.0 85.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 1.847 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.01 min

Lab File: VL036178.D

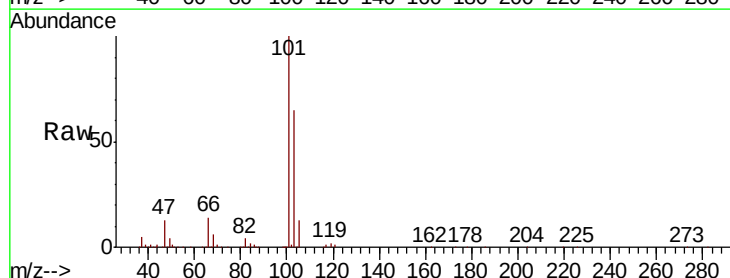
Acq: 16 Dec 2020 22:31

Tgt Ion: 101 Resp: 397310

Ion Ratio Lower Upper

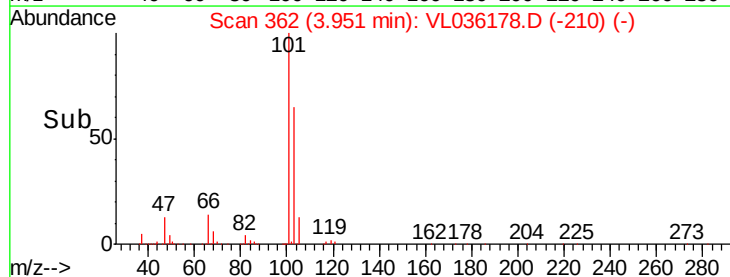
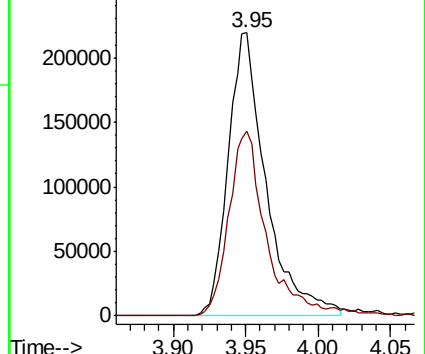
101 100

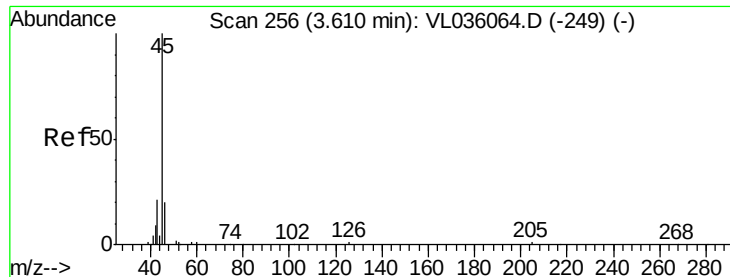
103 65.0 50.3 75.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

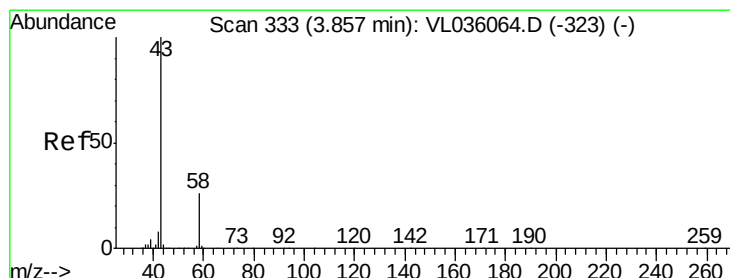
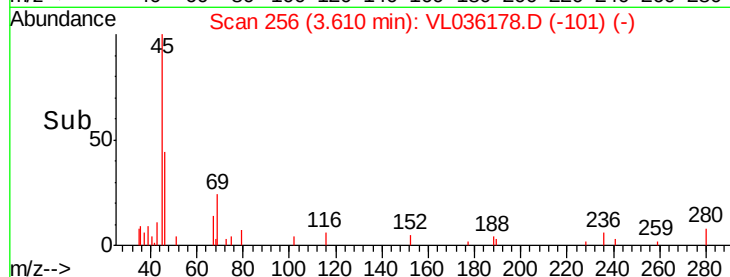
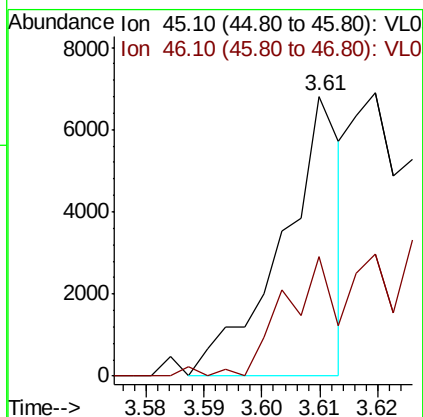
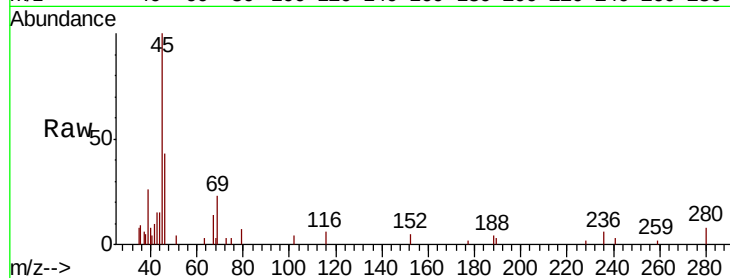




#13
Ethanol
Concen: 0.389 ppbv
RT: 3.61 min Scan# 256
Delta R.T. -0.00 min
Lab File: VL036178.D
Acq: 16 Dec 2020 22:31

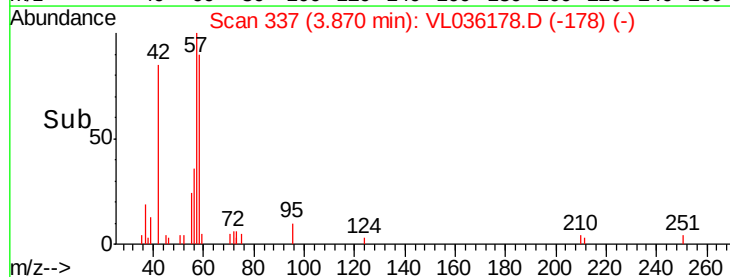
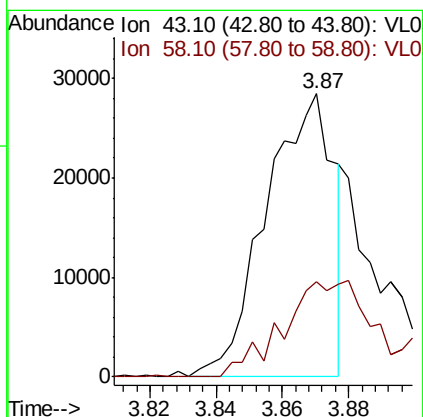
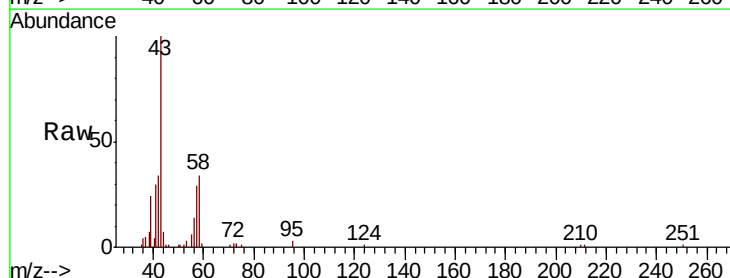
Instrument :
MSVOA_L
ClientSampleId :

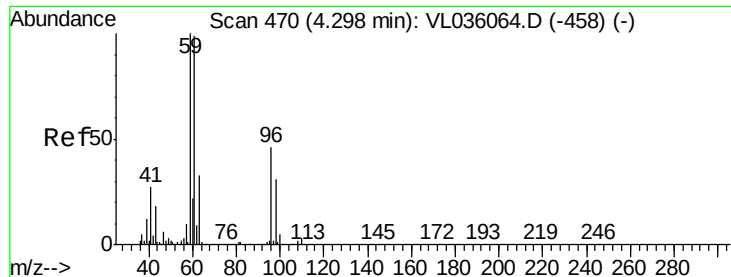
Tot Ion: 45 Resp: 4816
Ion Ratio Lower Upper
45 100
46 0.0 19.0 75.8#



#15
Acetone
Concen: 0.214 ppbv
RT: 3.87 min Scan# 337
Delta R.T. 0.01 min
Lab File: VL036178.D
Acq: 16 Dec 2020 22:31

Tgt Ion: 43 Resp: 40459
Ion Ratio Lower Upper
43 100
58 51.9 20.9 31.3#

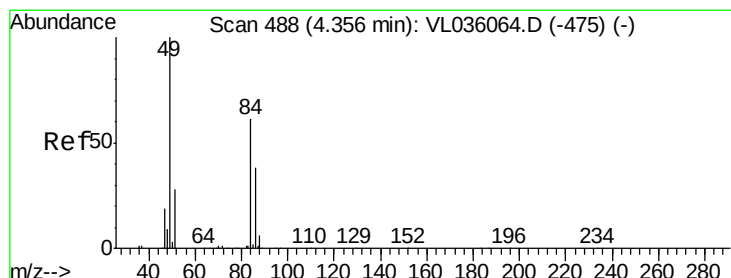
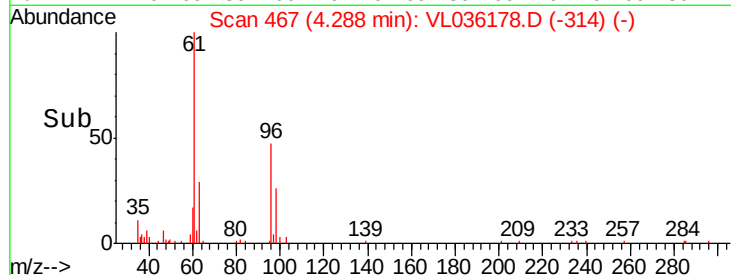
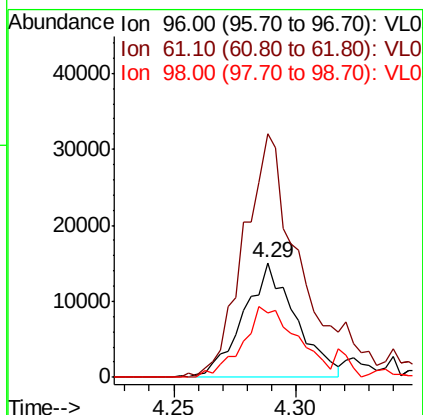
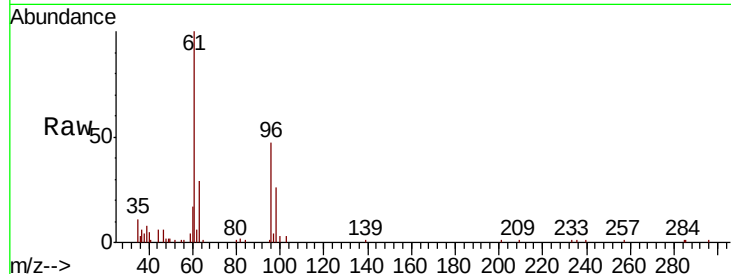




#18
 1,1-Dichloroethene
 Concen: 0.344 ppbv
 RT: 4.29 min Scan# 467
 Delta R.T. -0.01 min
 Lab File: VL036178.D
 Acq: 16 Dec 2020 22:31

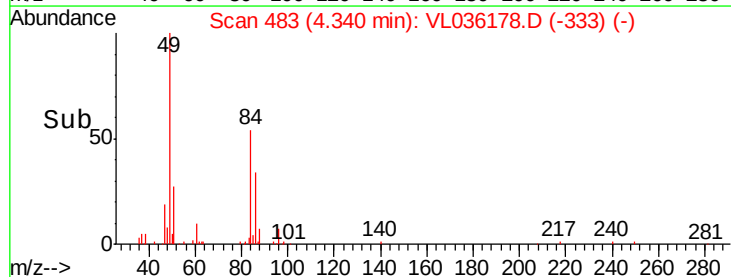
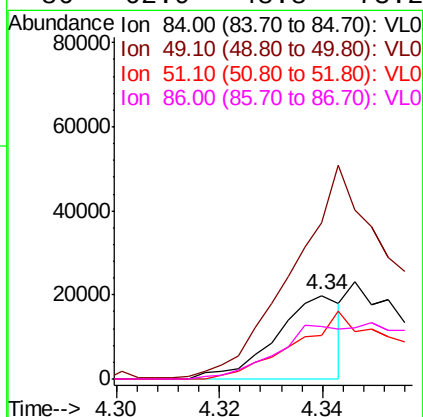
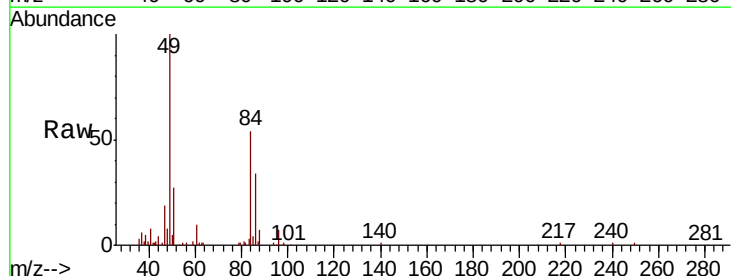
Instrument :
 MSVOA_L
 ClientSampleId :

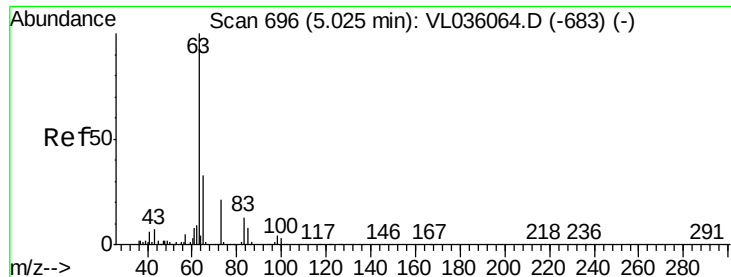
Tot Ion: 96 Resp: 22307
 Ion Ratio Lower Upper
 96 100
 61 207.8 171.4 257.2
 98 56.1 54.2 81.2



#20
 Methylene Chloride
 Concen: 0.224 ppbv
 RT: 4.34 min Scan# 483
 Delta R.T. -0.02 min
 Lab File: VL036178.D
 Acq: 16 Dec 2020 22:31

Tgt Ion: 84 Resp: 17310
 Ion Ratio Lower Upper
 84 100
 49 178.6 133.0 199.4
 51 51.2 38.9 58.3
 86 62.9 48.8 73.2





#24

1,1-Dichloroethane

Concen: 0.164 ppbv

RT: 5.01 min Scan# 692

Delta R.T. -0.01 min

Lab File: VL036178.D

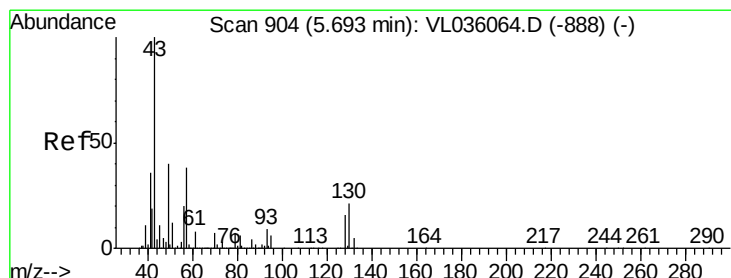
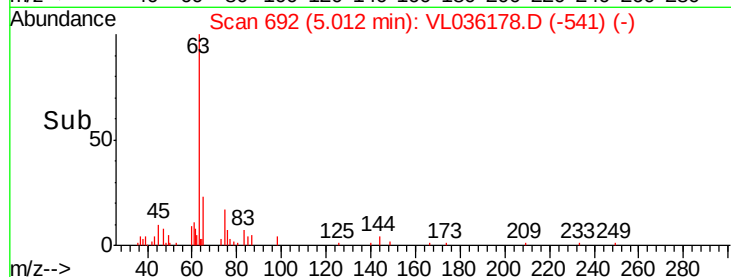
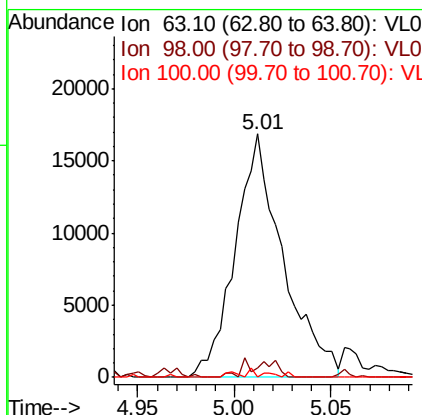
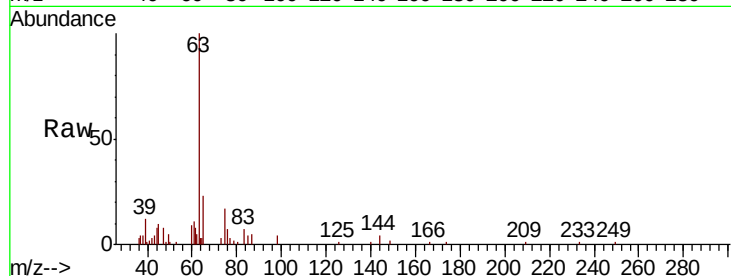
Acq: 16 Dec 2020 22:31

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	63	Resp:	29051
Ion	Ratio	Lower	Upper
63	100		
98	4.0	2.2	6.6
100	0.0	1.5	4.4#



#25

Ethyl Acetate

Concen: 0.108 ppbv

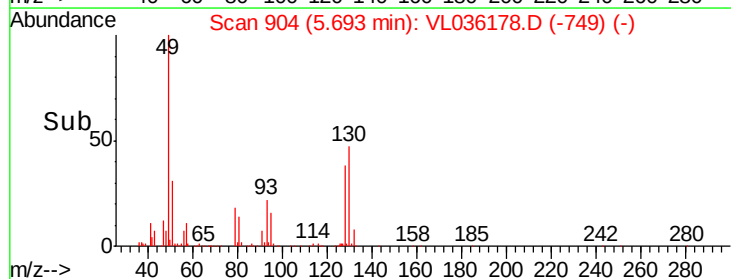
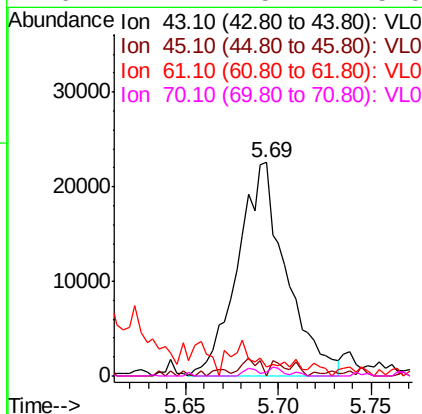
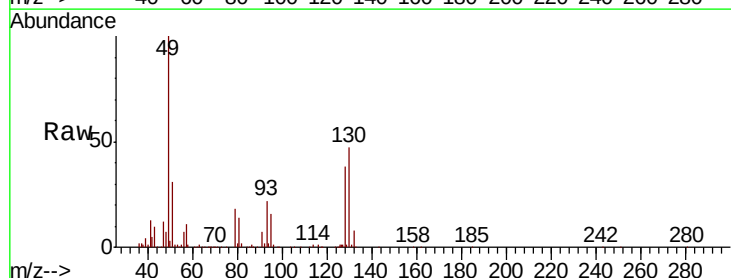
RT: 5.69 min Scan# 904

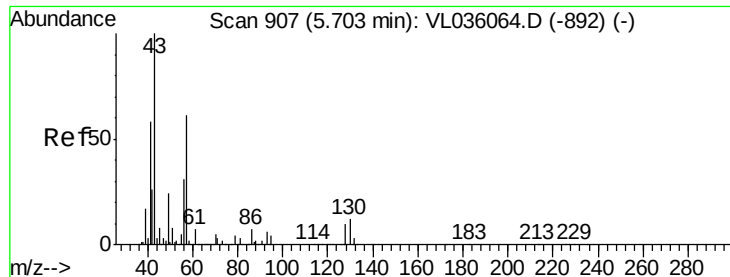
Delta R.T. -0.00 min

Lab File: VL036178.D

Acq: 16 Dec 2020 22:31

Tgt Ion:	43	Resp:	40901
Ion	Ratio	Lower	Upper
43	100		
45	9.1	8.2	12.4
61	0.0	7.4	11.2#
70	2.7	5.4	8.0#

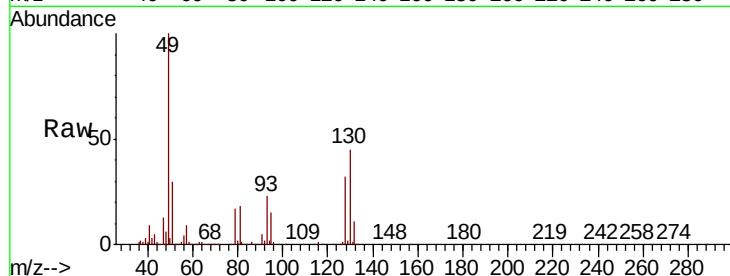




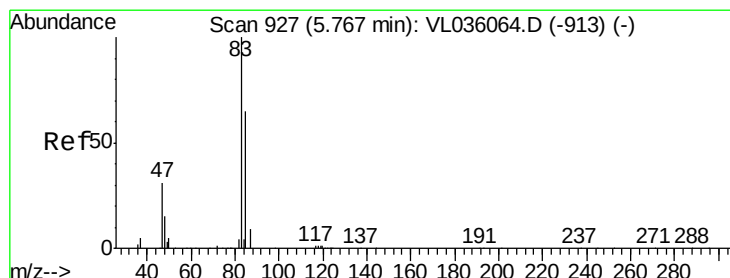
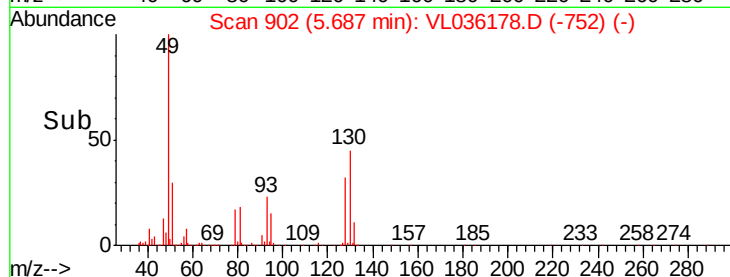
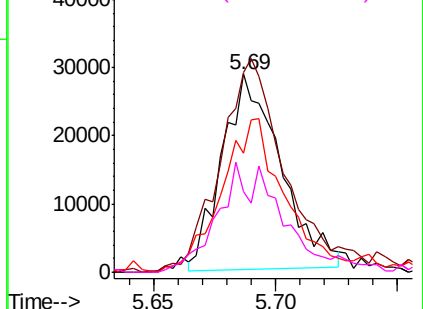
#26
Hexane
Concen: 0.283 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.02 min
Lab File: VL036178.D
Acq: 16 Dec 2020 22:31

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 47950
Ion Ratio Lower Upper
57 100
41 129.8 82.9 124.3#
43 93.8 199.9 299.9#
56 62.4 43.1 64.7

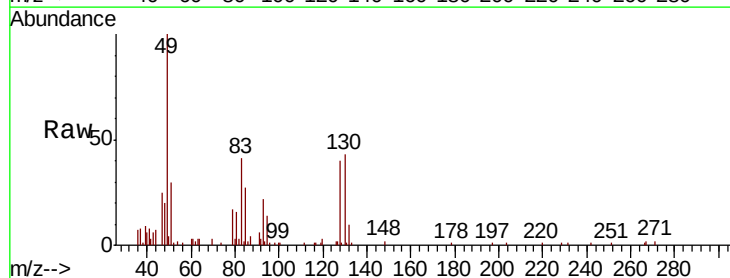


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

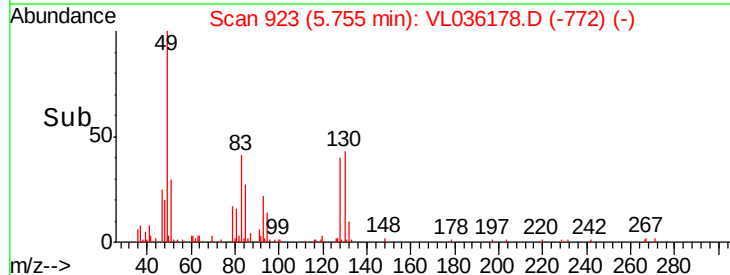
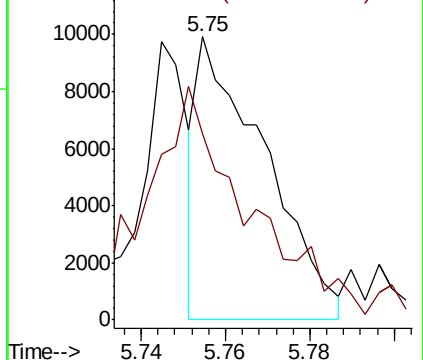


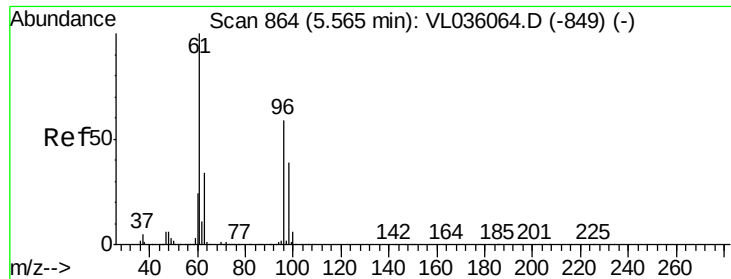
#29
Chloroform
Concen: 0.050 ppbv
RT: 5.75 min Scan# 923
Delta R.T. -0.01 min
Lab File: VL036178.D
Acq: 16 Dec 2020 22:31

Tgt Ion: 83 Resp: 11044
Ion Ratio Lower Upper
83 100
85 55.7 51.8 77.6



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0



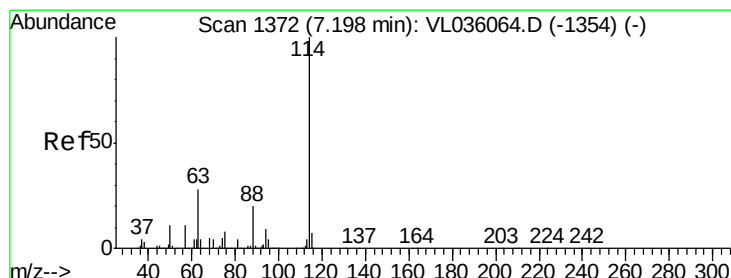
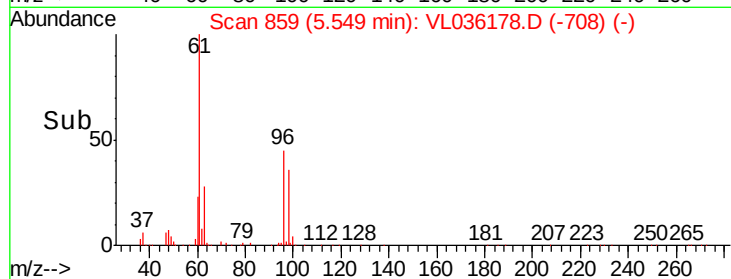
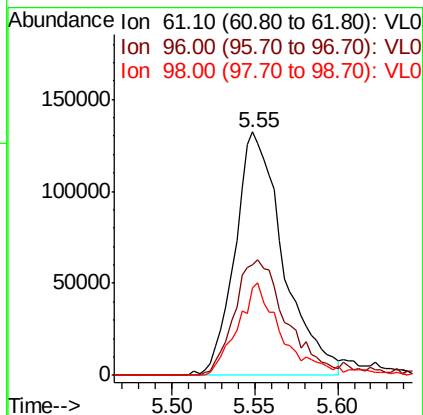
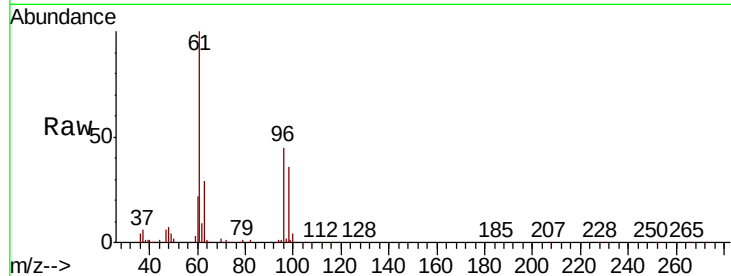


#31

cis-1,2-Dichloroethene
 Concen: 1.737 ppbv
 RT: 5.55 min Scan# 859
 Delta R.T. -0.02 min
 Lab File: VL036178.D
 Acq: 16 Dec 2020 22:31

Instrument :
 MSVOA_L
 ClientSampleId :

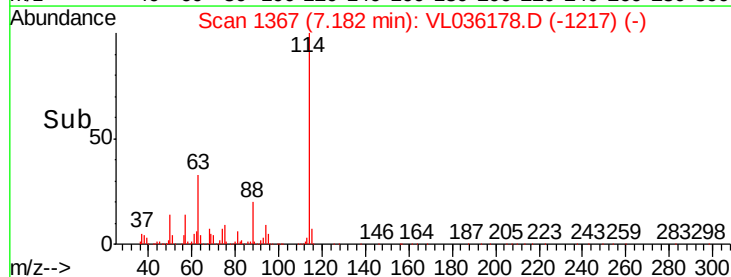
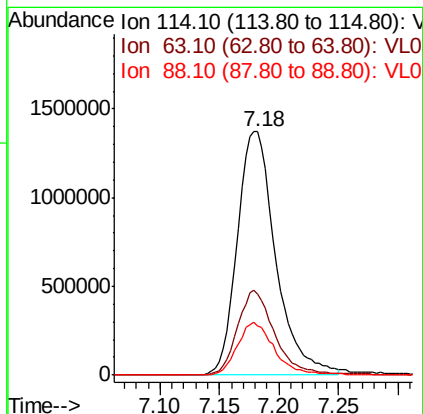
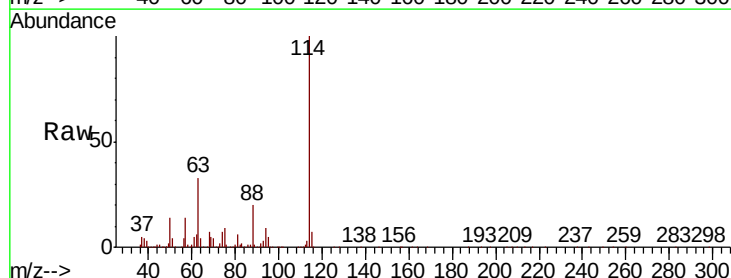
Tot Ion	Ratio	Lower	Upper
61	100		
96	45.3	47.3	70.9#
98	36.1	31.4	47.0

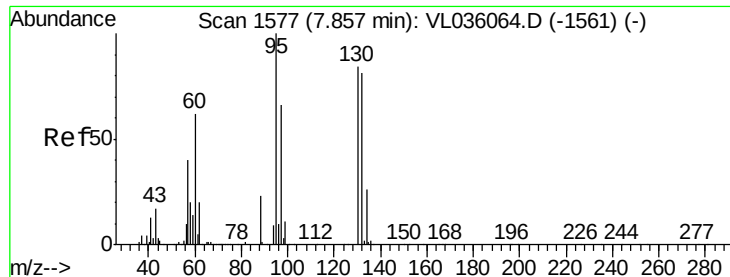


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.02 min
 Lab File: VL036178.D
 Acq: 16 Dec 2020 22:31

Tgt Ion	Ratio	Lower	Upper
114	100		
63	33.9	23.6	35.4
88	21.3	15.8	23.6

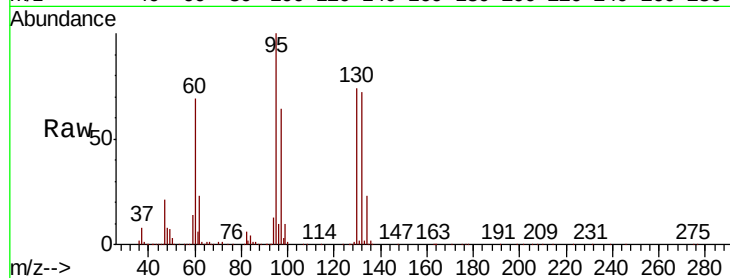




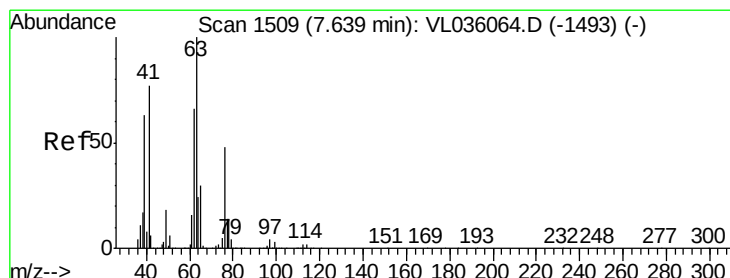
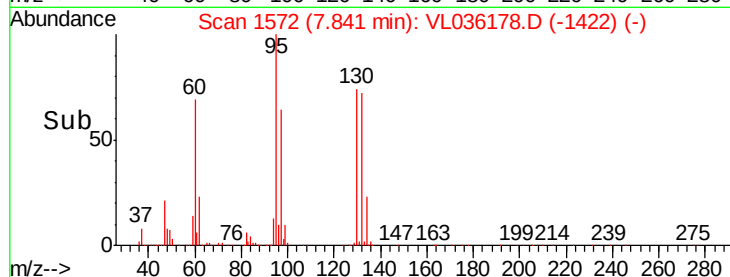
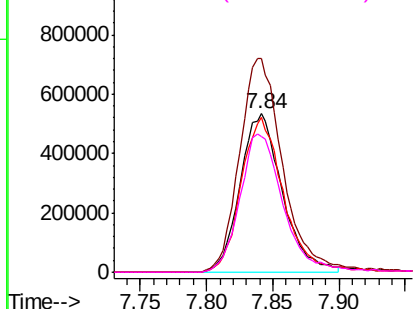
#38
 Trichloroethene
 Concen: 12.137 ppbv
 RT: 7.84 min Scan# 1572
 Delta R.T. -0.02 min
 Lab File: VL036178.D
 Acq: 16 Dec 2020 22:31

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:130 Resp: 1181333
 Ion Ratio Lower Upper
 130 100
 95 134.7 95.2 142.8
 132 97.6 76.9 115.3
 97 85.6 62.3 93.5

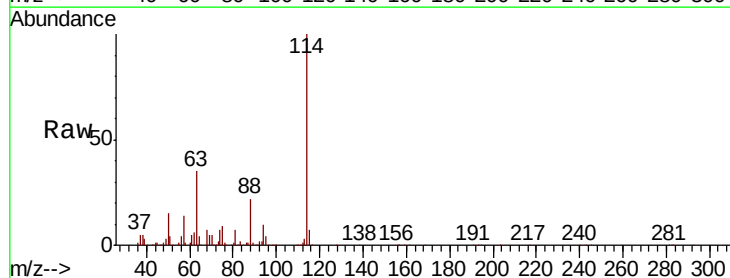


Abundance Ion 130.00 (129.70 to 130.70): V
 Ion 95.00 (94.70 to 95.70): VL0
 Ion 132.00 (131.70 to 132.70): V
 Ion 97.00 (96.70 to 97.70): VL0

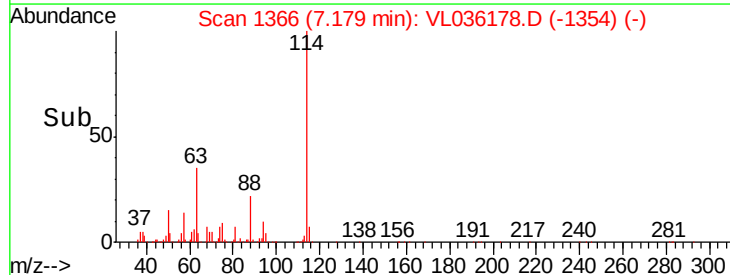
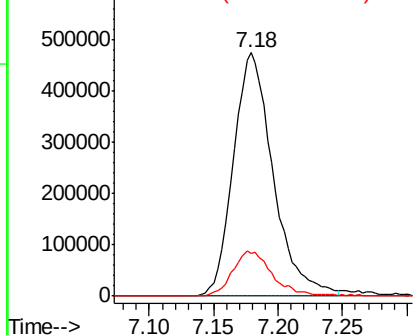


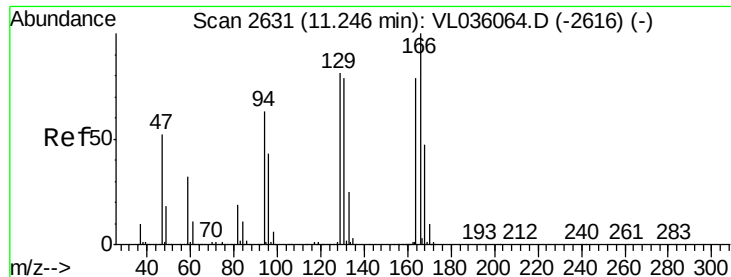
#39
 1,2-Dichloropropane
 Concen: 9.924 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.46 min
 Lab File: VL036178.D
 Acq: 16 Dec 2020 22:31

Tgt Ion: 63 Resp: 1020407
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.9 92.9#
 62 17.3 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

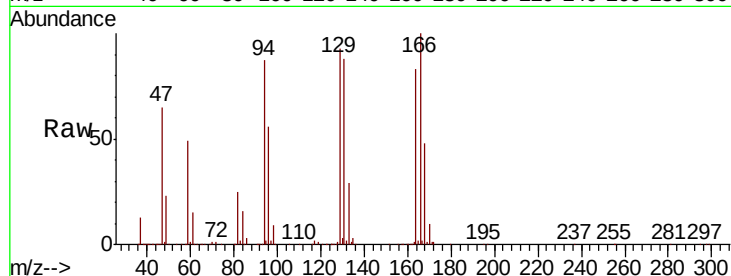




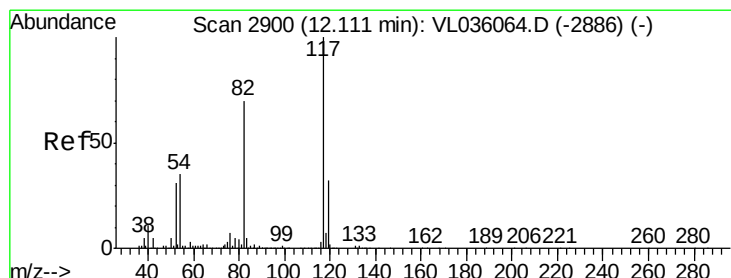
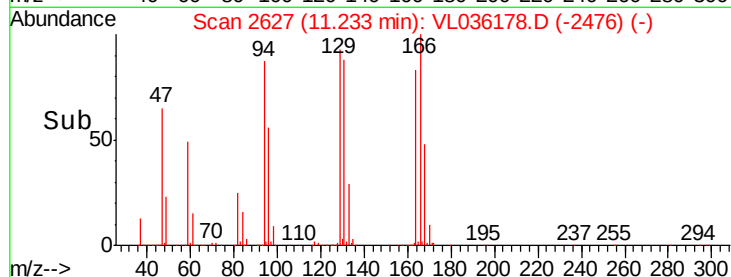
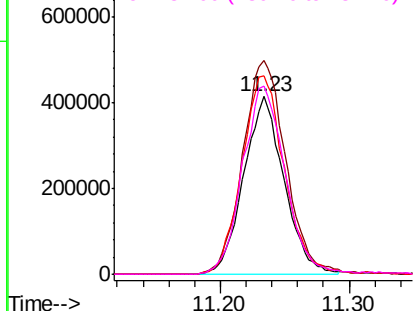
#52
Tetrachloroethene
Concen: 9.558 ppbv
RT: 11.23 min Scan# 2627
Delta R.T. -0.01 min
Lab File: VL036178.D
Acq: 16 Dec 2020 22:31

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
166	120.2	101.9	152.9
129	111.5	82.1	123.1
131	105.7	80.8	121.2

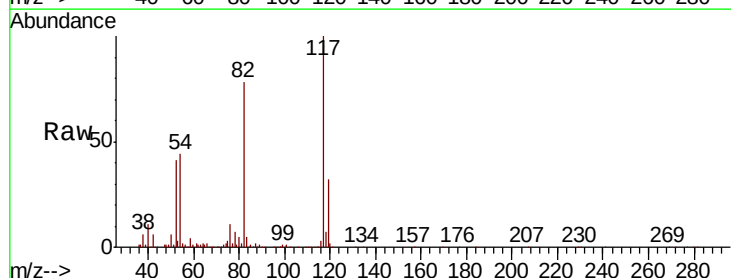


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V

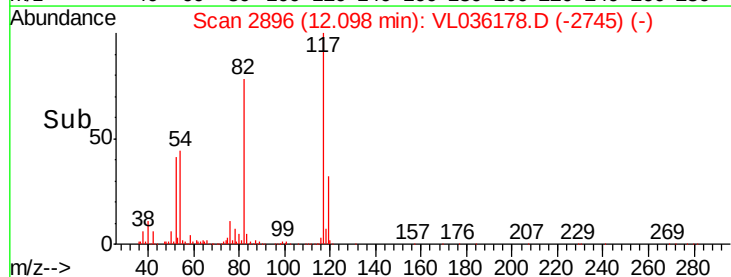
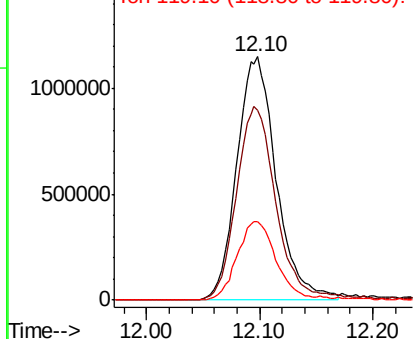


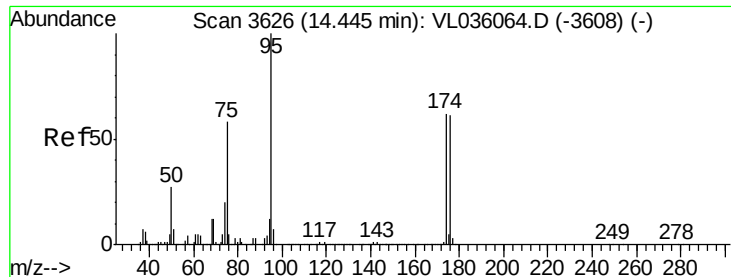
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2896
Delta R.T. -0.01 min
Lab File: VL036178.D
Acq: 16 Dec 2020 22:31

Tgt Ion	Ratio	Lower	Upper
117	100		
82	82.5	0.0	0.0#
119	33.1	0.0	0.0#



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





#68

1-Bromo-4-Fluorobenzene

Concen: 10.991 ppbv

RT: 14.43 min Scan# 3621

Delta R.T. -0.02 min

Lab File: VL036178.D

Acq: 16 Dec 2020 22:31

Instrument :

MSVOA_L

ClientSampleId :

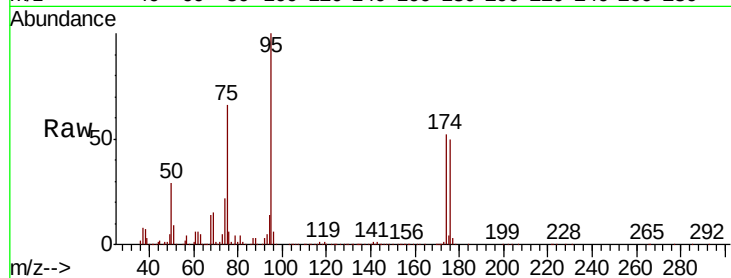
Tot Ion: 95 Resp: 2425324

Ion Ratio Lower Upper

95 100

174 53.6 50.7 76.1

175 4.1 4.0 6.0



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

