

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050620\
 Data File : VL034952.D
 Acq On : 7 May 2020 2:41
 Operator : SY/AP
 Sample : L2182-14 0.03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 07 06:37:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1137019	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2570258	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2402568	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2005642	10.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

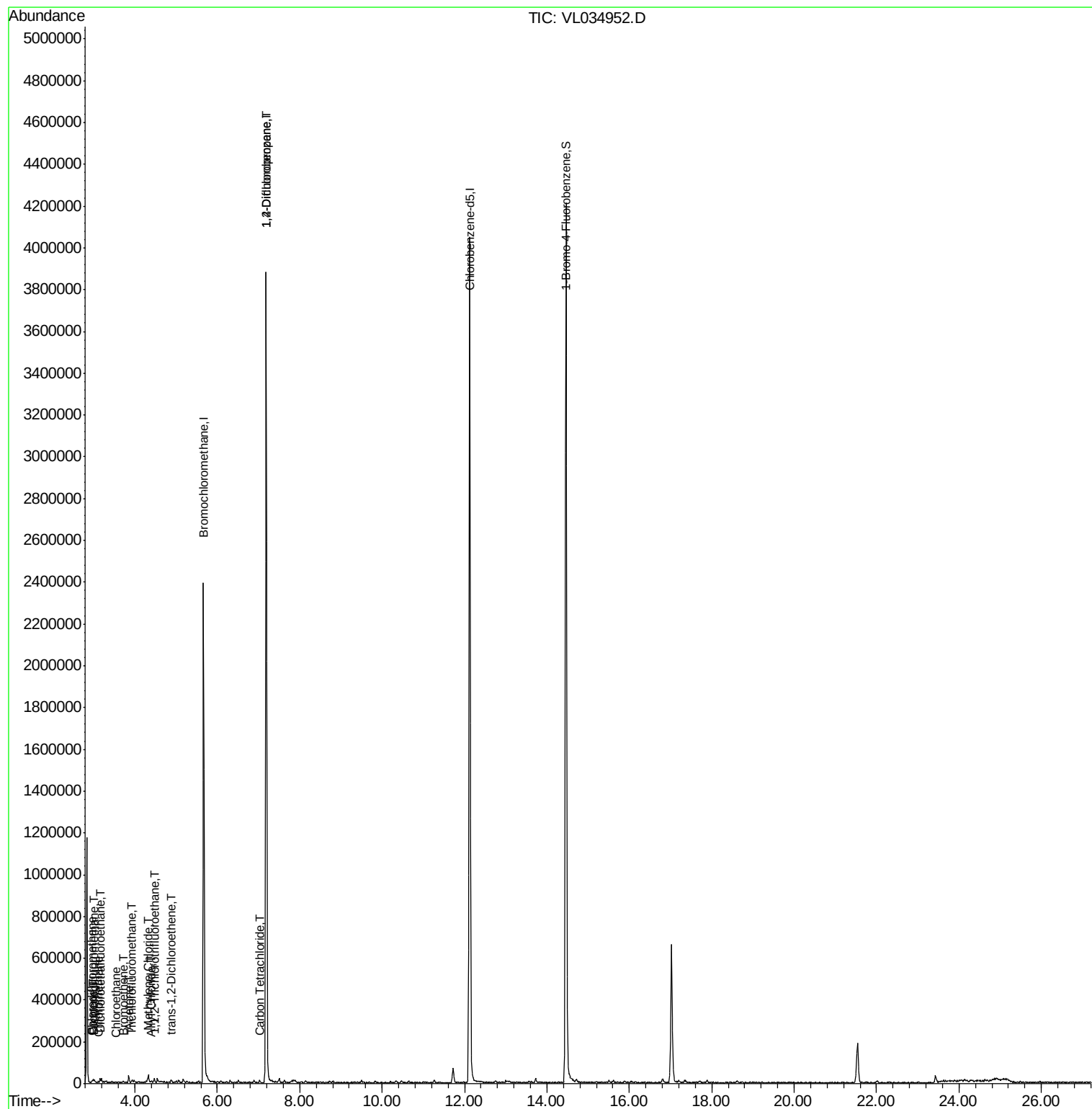
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	7678	0.048 ppbv #	84
3) Chlorodifluoromethane	2.95	51	4942	0.038 ppbv #	81
4) Chloromethane	3.11	50	3263	0.044 ppbv #	68
7) Chloroethane	3.53	64	655	0.025 ppbv #	46
8) Dichlorotetrafluoroethane	3.16	85	5889	0.035 ppbv	87
9) Propene	2.97	41	1769	0.031 ppbv #	16
11) Trichlorofluoromethane	3.93	101	5696	0.034 ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.47	101	4511	0.038 ppbv	89
14) Bromoethene	3.72	108	2457	0.050 ppbv	93
15) Acetone	3.85	43	27196	0.181 ppbv #	76
20) Methylene Chloride	4.32	84	4579	0.092 ppbv #	85
21) Allyl Chloride	4.39	41	2293	0.027 ppbv #	24
22) trans-1,2-Dichloroethene	4.88	96	1727	0.034 ppbv #	83
35) Carbon Tetrachloride	7.03	117	3475	0.021 ppbv #	29
39) 1,2-Dichloropropane	7.19	63	716768	8.438 ppbv #	24

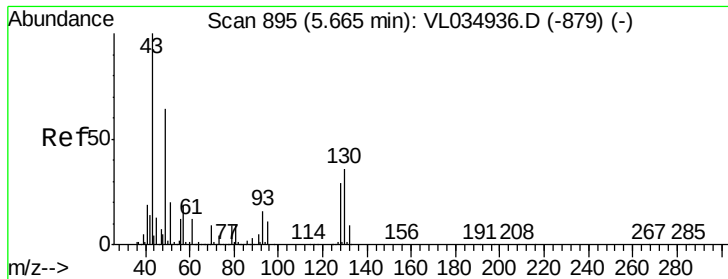
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

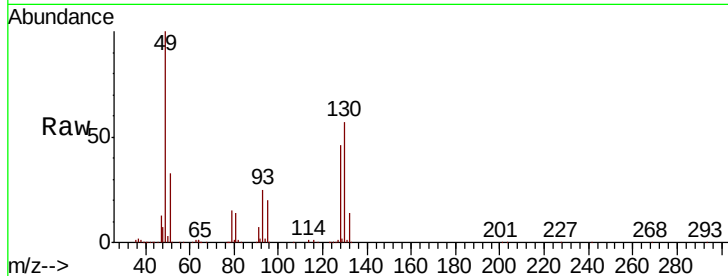
Lab File: VL034952.D

Acq: 7 May 2020 2:41

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 49 Resp: 1137019

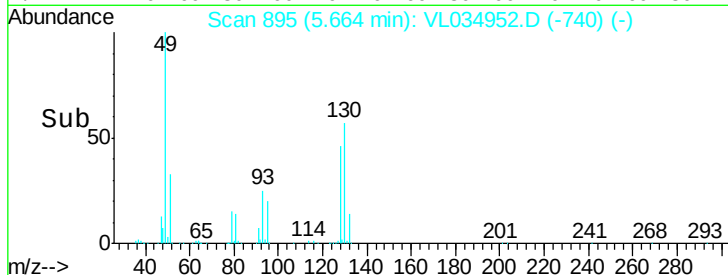
Ion	Ratio	Lower	Upper
49	100		
128	45.7	22.1	66.5
130	57.6	29.1	87.3



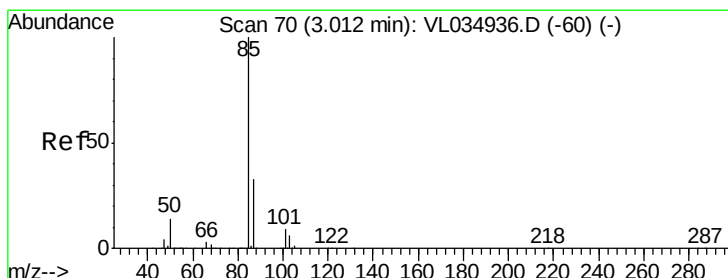
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 0.048 ppbv

RT: 3.01 min Scan# 69

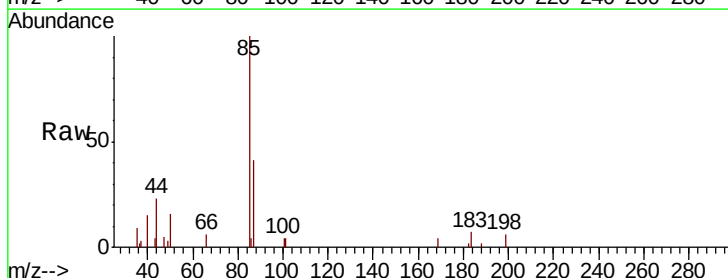
Delta R.T. -0.00 min

Lab File: VL034952.D

Acq: 7 May 2020 2:41

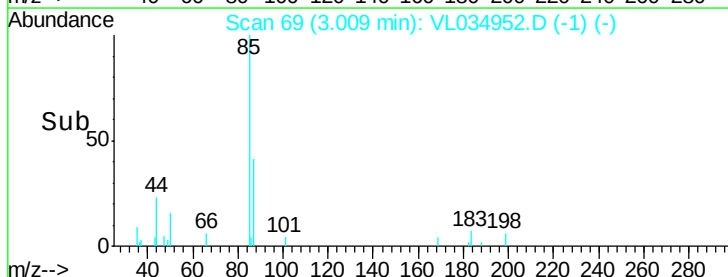
Tgt Ion: 85 Resp: 7678

Ion	Ratio	Lower	Upper
85	100		
87	41.4	26.2	39.2

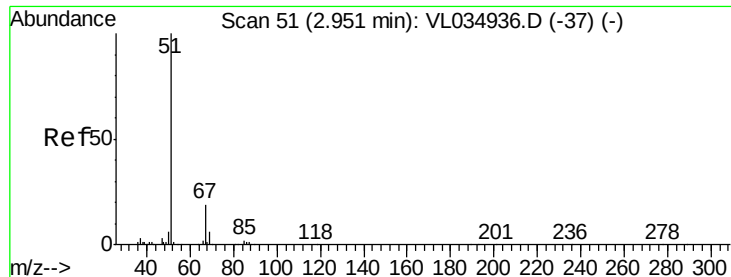


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



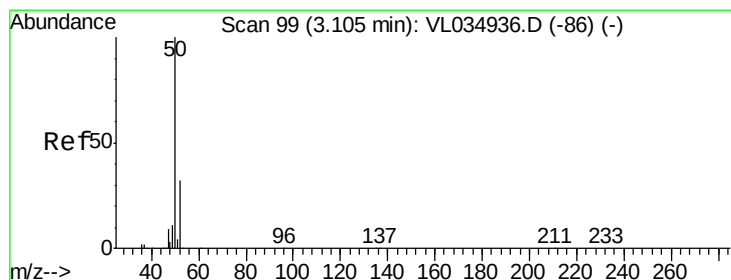
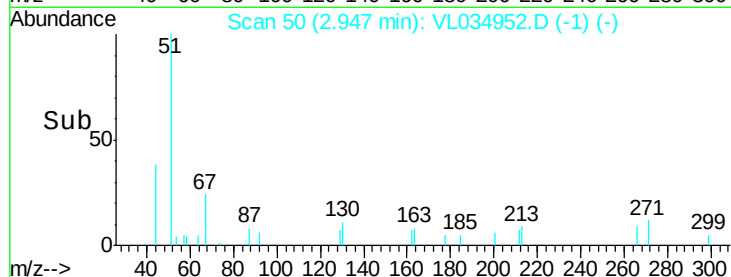
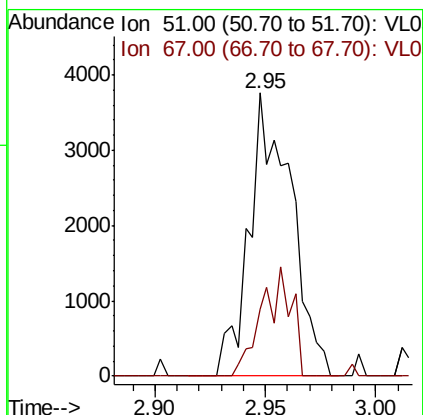
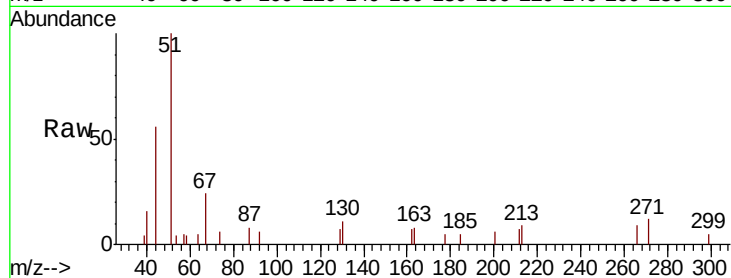
Time-->



#3
Chlorodifluoromethane
Concen: 0.038 ppbv
RT: 2.95 min Scan# 50
Delta R.T. -0.00 min
Lab File: VL034952.D
Acq: 7 May 2020 2:41

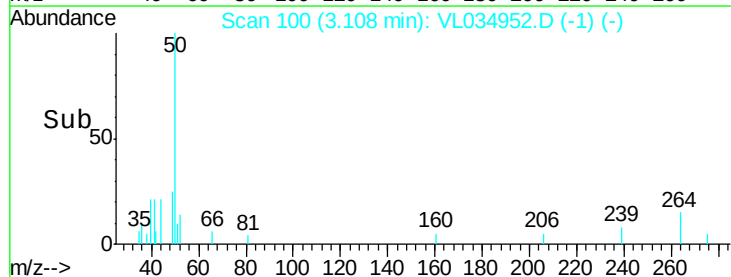
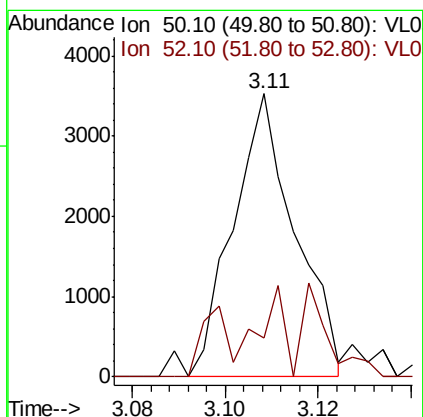
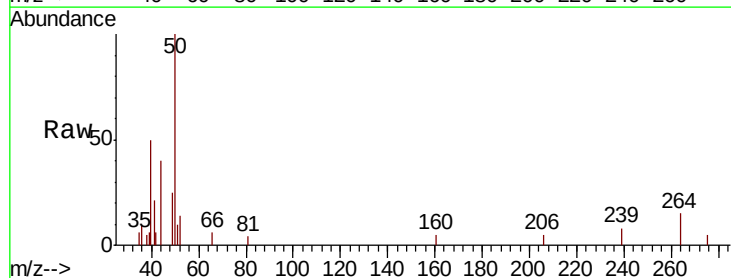
Instrument :
MSVOA_L
ClientSampleId :

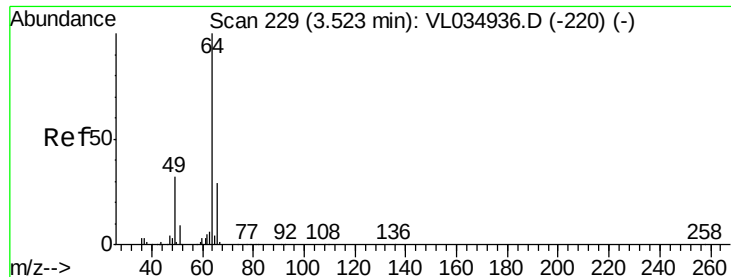
Tot Ion: 51 Resp: 4942
Ion Ratio Lower Upper
51 100
67 27.3 15.0 22.6#



#4
Chloromethane
Concen: 0.044 ppbv
RT: 3.11 min Scan# 100
Delta R.T. 0.00 min
Lab File: VL034952.D
Acq: 7 May 2020 2:41

Tgt Ion: 50 Resp: 3263
Ion Ratio Lower Upper
50 100
52 13.9 25.4 38.2#





#7

Chloroethane

Concen: 0.025 ppbv

RT: 3.53 min Scan# 231

Delta R.T. 0.01 min

Lab File: VL034952.D

Acq: 7 May 2020 2:41

Instrument :

MSVOA_L

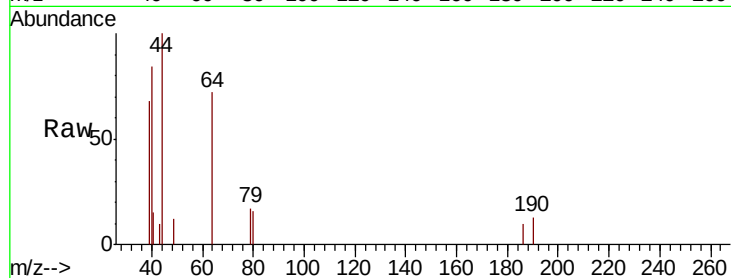
ClientSampleId :

Tot Ion: 64 Resp: 655

Ion Ratio Lower Upper

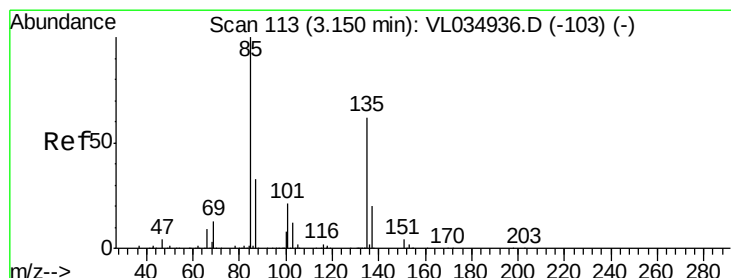
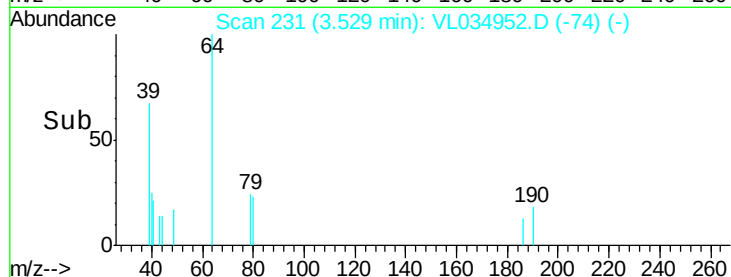
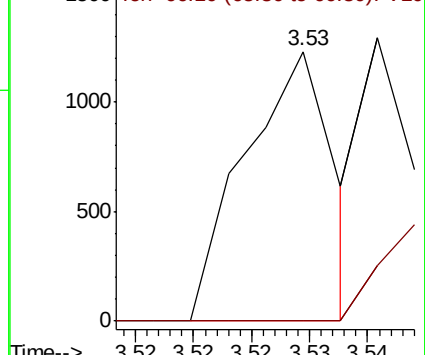
64 100

66 0.0 23.2 34.8#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.035 ppbv

RT: 3.16 min Scan# 115

Delta R.T. 0.01 min

Lab File: VL034952.D

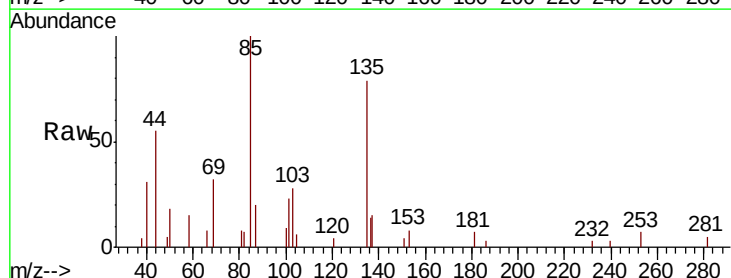
Acq: 7 May 2020 2:41

Tgt Ion: 85 Resp: 5889

Ion Ratio Lower Upper

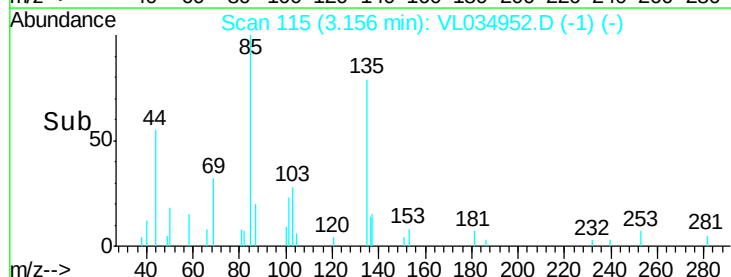
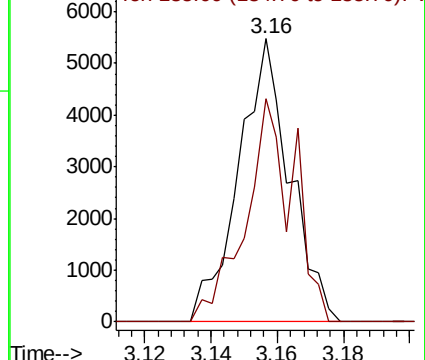
85 100

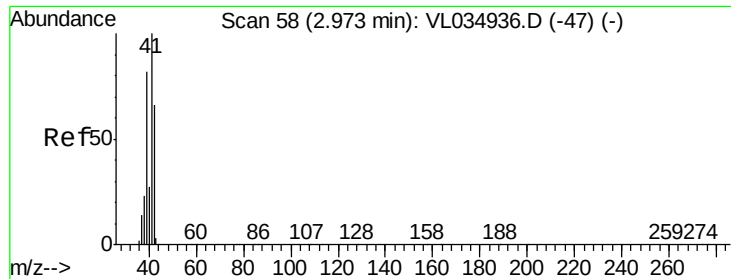
135 73.8 50.9 76.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.031 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.00 min

Lab File: VL034952.D

Acq: 7 May 2020 2:41

Instrument :

MSVOA_L

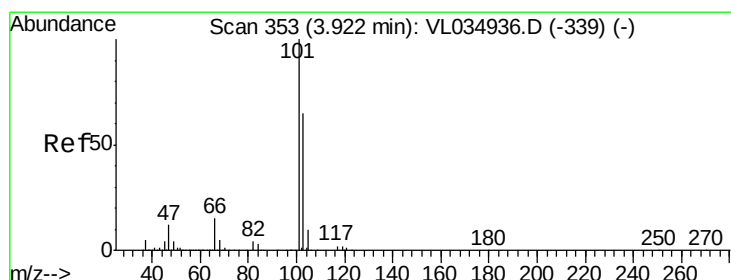
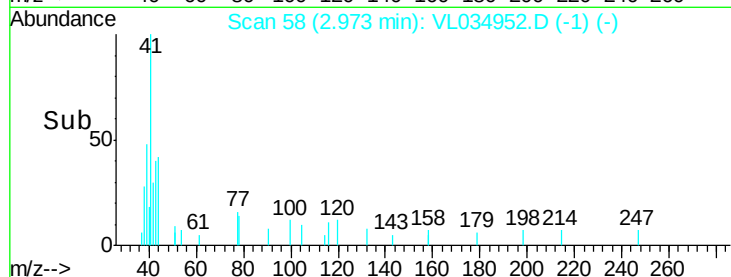
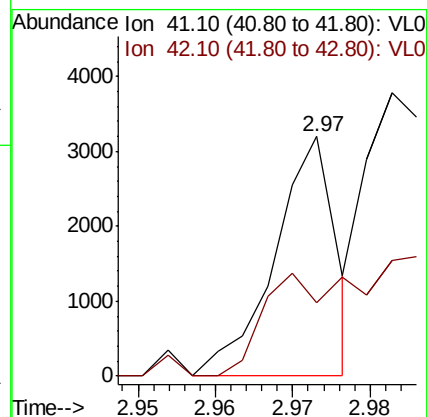
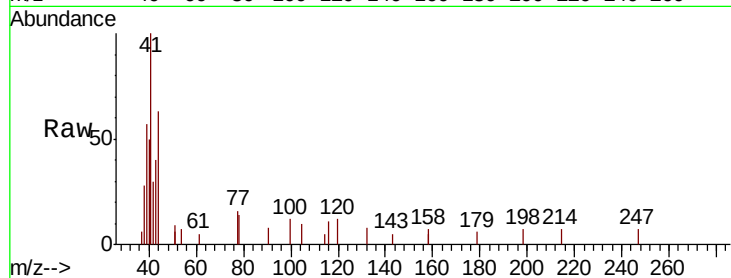
ClientSampleId :

Tot Ion: 41 Resp: 1769

Ion Ratio Lower Upper

41 100

42 0.0 54.5 81.7#



#11

Trichlorofluoromethane

Concen: 0.034 ppbv

RT: 3.93 min Scan# 355

Delta R.T. 0.01 min

Lab File: VL034952.D

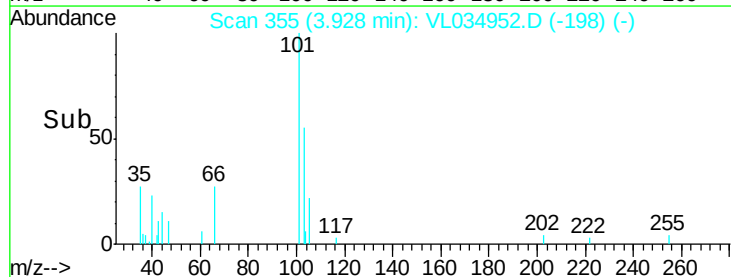
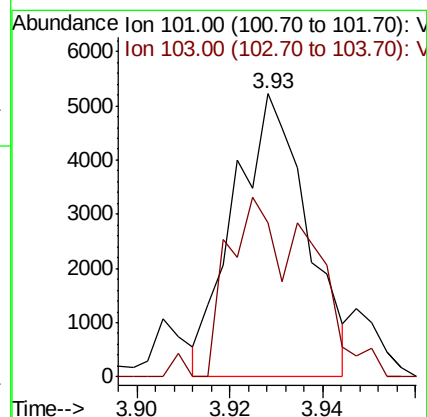
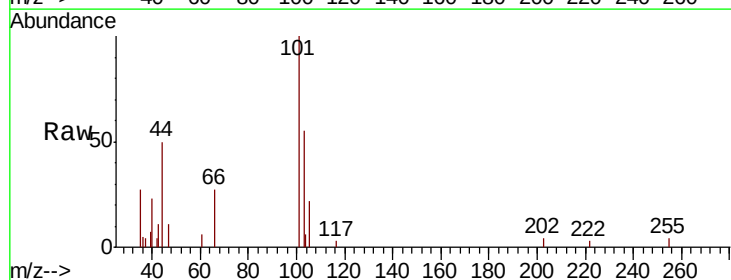
Acq: 7 May 2020 2:41

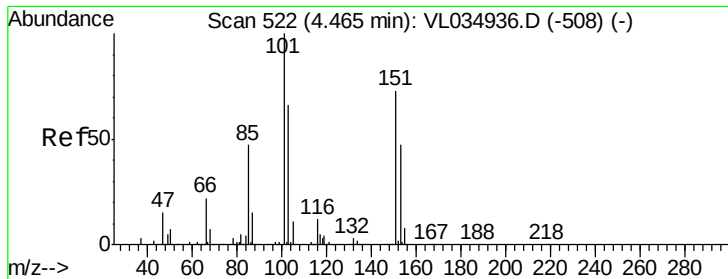
Tgt Ion: 101 Resp: 5696

Ion Ratio Lower Upper

101 100

103 67.5 51.9 77.9





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.038 ppbv

RT: 4.47 min Scan# 524

Delta R.T. 0.01 min

Lab File: VL034952.D

Acq: 7 May 2020 2:41

Instrument :

MSVOA_L

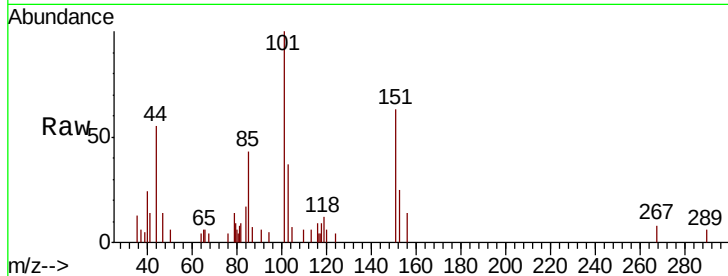
ClientSampleId :

Tot Ion:101 Resp: 4511

Ion Ratio Lower Upper

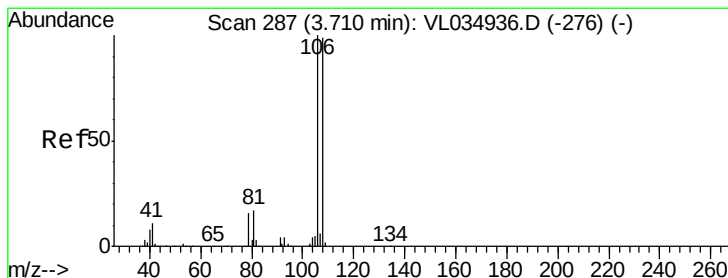
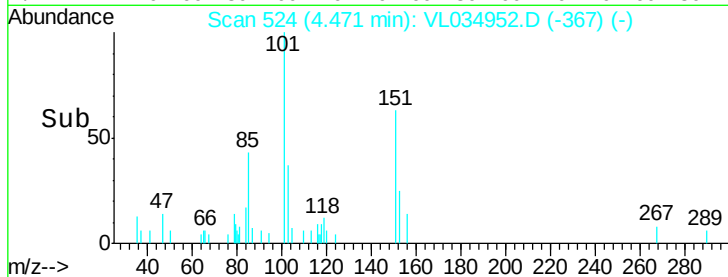
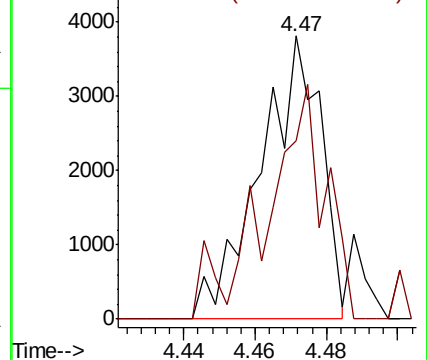
101 100

151 80.8 57.6 86.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#14

Bromoethene

Concen: 0.050 ppbv

RT: 3.72 min Scan# 289

Delta R.T. 0.01 min

Lab File: VL034952.D

Acq: 7 May 2020 2:41

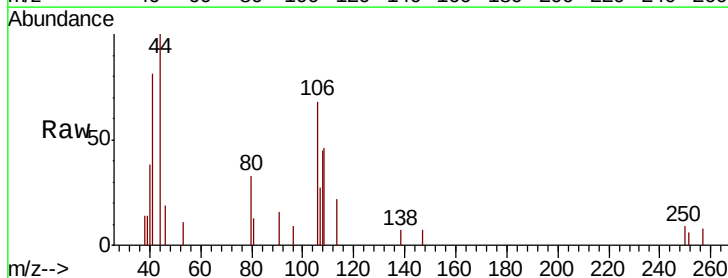
Tgt Ion:108 Resp: 2457

Ion Ratio Lower Upper

108 100

106 98.4 84.9 127.3

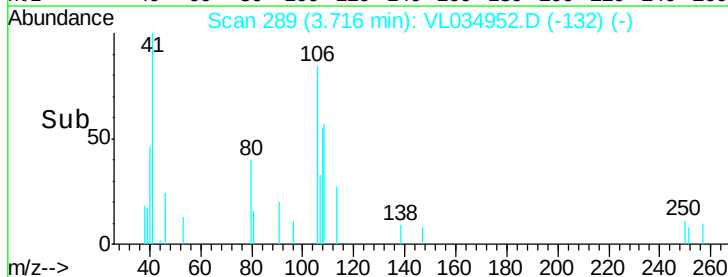
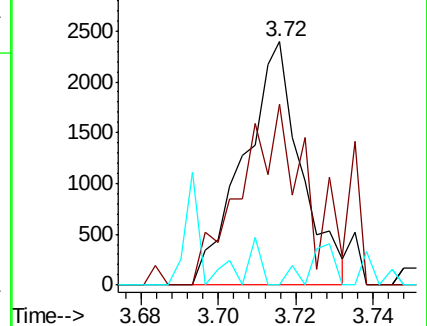
79 19.1 14.1 21.1

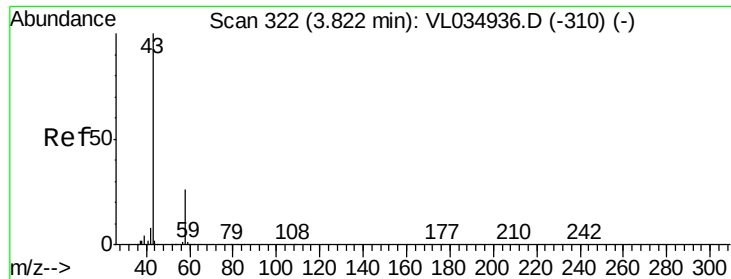


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0

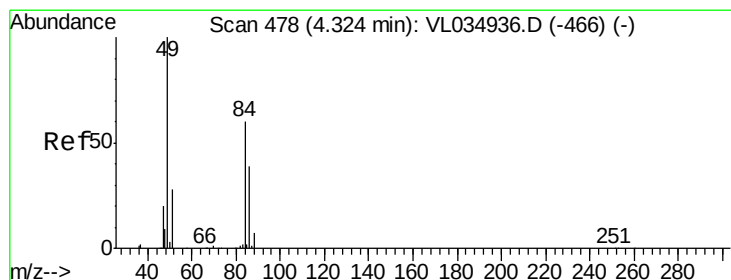
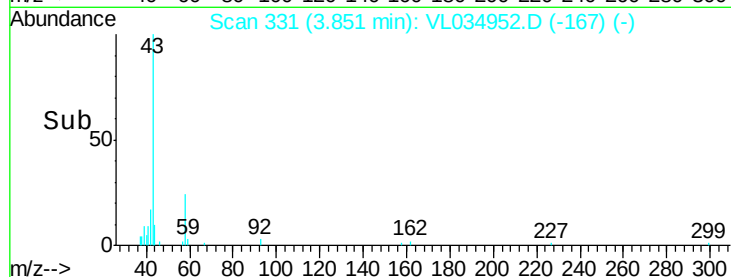
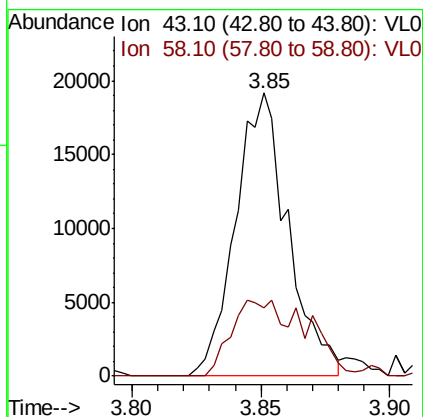
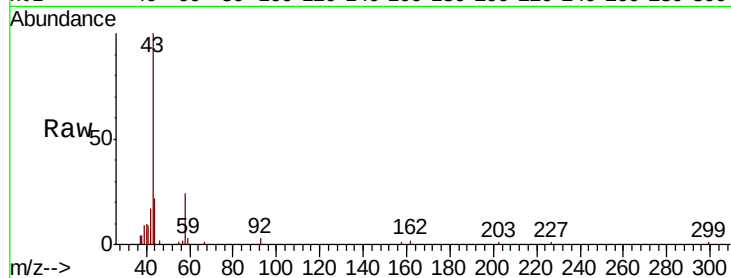




#15
Acetone
Concen: 0.181 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.03 min
Lab File: VL034952.D
Acq: 7 May 2020 2:41

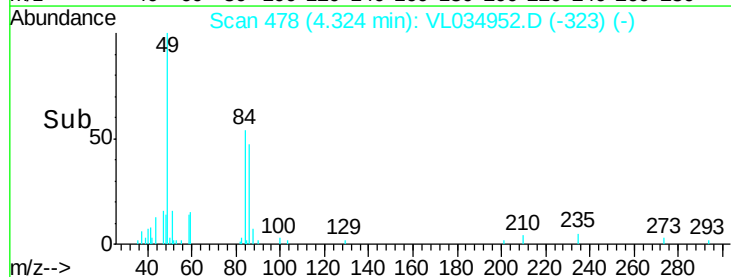
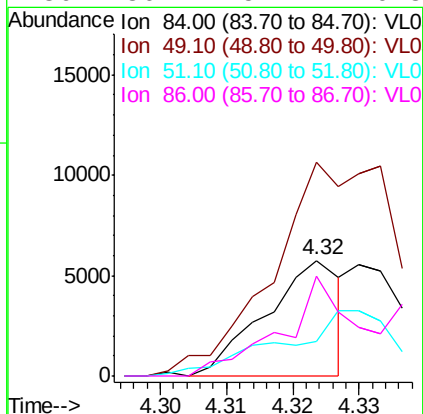
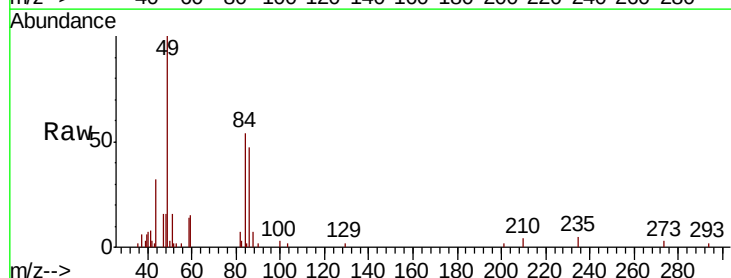
Instrument :
MSVOA_L
ClientSampleId :

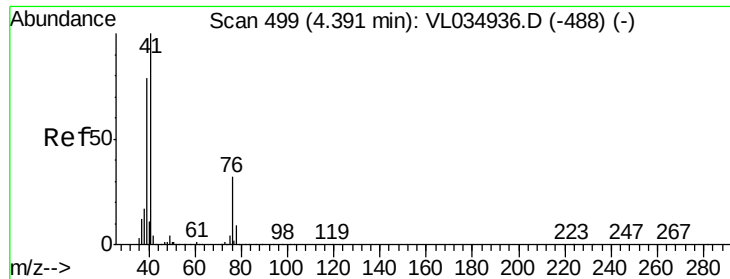
Tot Ion: 43 Resp: 27196
Ion Ratio Lower Upper
43 100
58 39.6 21.7 32.5#



#20
Methylene Chloride
Concen: 0.092 ppbv
RT: 4.32 min Scan# 478
Delta R.T. -0.00 min
Lab File: VL034952.D
Acq: 7 May 2020 2:41

Tgt Ion: 84 Resp: 4579
Ion Ratio Lower Upper
84 100
49 171.5 132.5 198.7
51 26.4 38.4 57.6#
86 86.2 51.2 76.8#

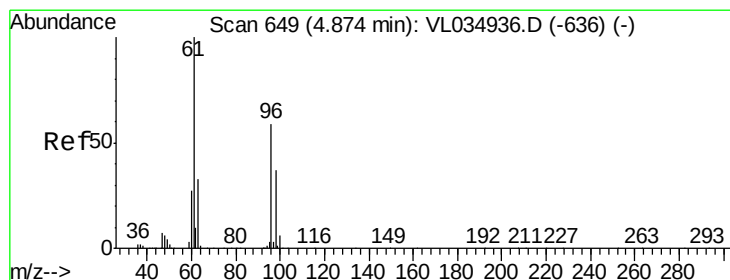
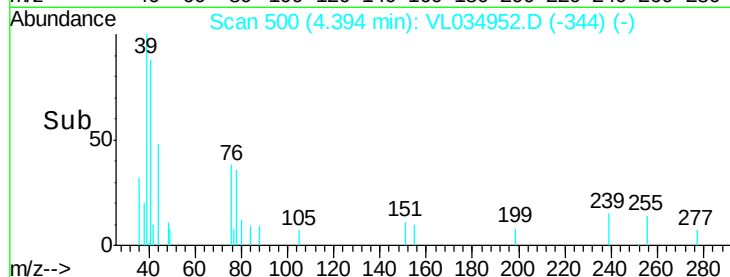
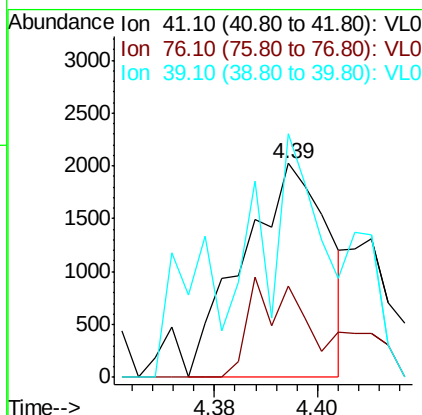
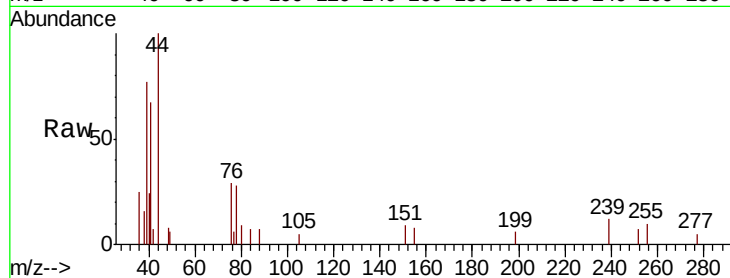




#21
 Allvl Chloride
 Concen: 0.027 ppbv
 RT: 4.39 min Scan# 500
 Delta R.T. 0.00 min
 Lab File: VL034952.D
 Acq: 7 May 2020 2:41

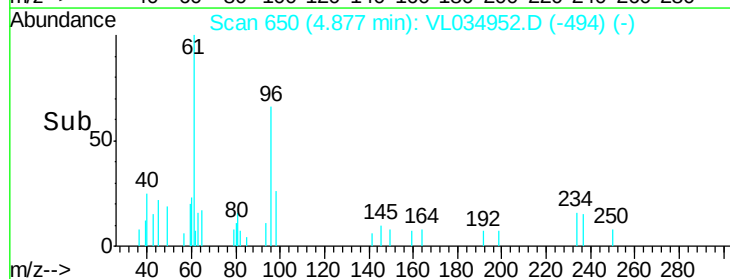
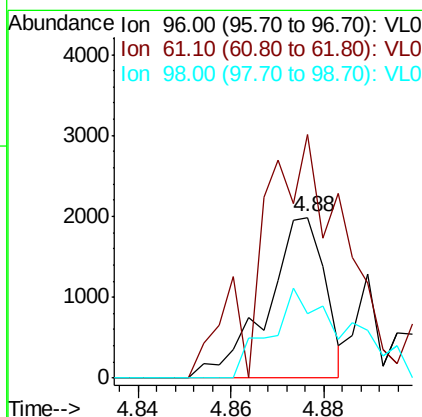
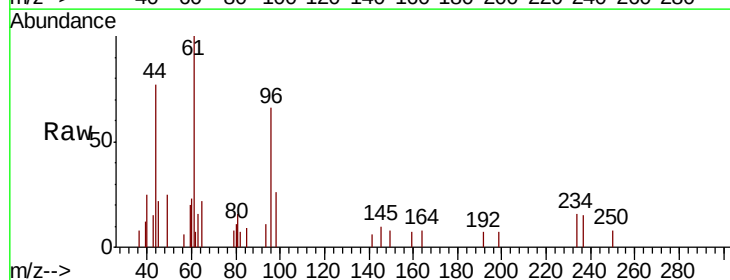
Instrument :
 MSVOA_L
 ClientSampleId :

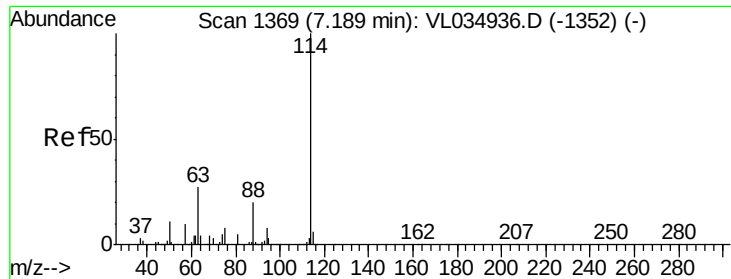
Tot Ion: 41 Resp: 2293
 Ion Ratio Lower Upper
 41 100
 76 40.7 23.6 35.4#
 39 161.3 61.9 92.9#



#22
 trans-1,2-Dichloroethene
 Concen: 0.034 ppbv
 RT: 4.88 min Scan# 650
 Delta R.T. 0.00 min
 Lab File: VL034952.D
 Acq: 7 May 2020 2:41

Tgt Ion: 96 Resp: 1727
 Ion Ratio Lower Upper
 96 100
 61 151.6 135.3 202.9
 98 40.2 50.4 75.6#

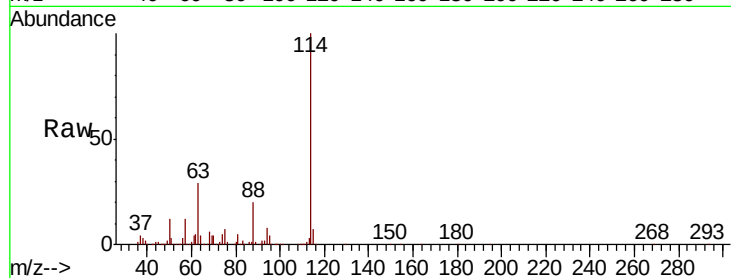




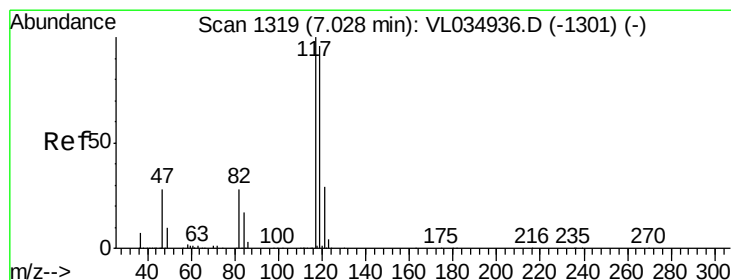
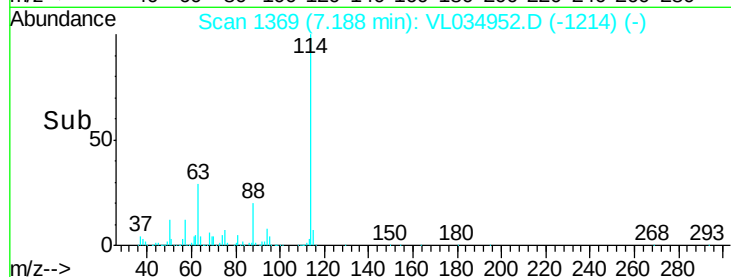
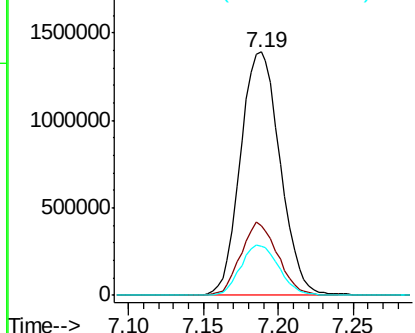
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1369
 Delta R.T. -0.00 min
 Lab File: VL034952.D
 Acq: 7 May 2020 2:41

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 2570258
 Ion Ratio Lower Upper
 114 100
 63 28.0 22.2 33.4
 88 20.0 15.5 23.3

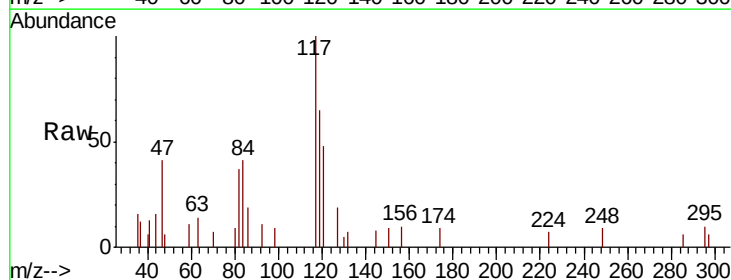


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

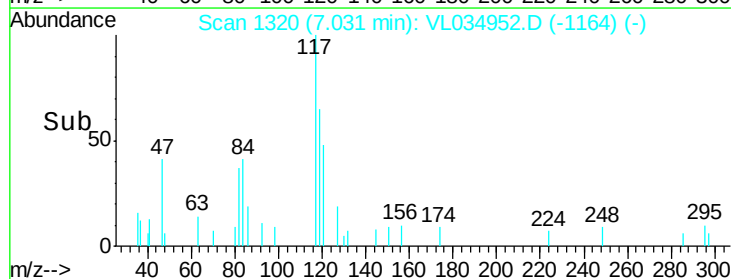
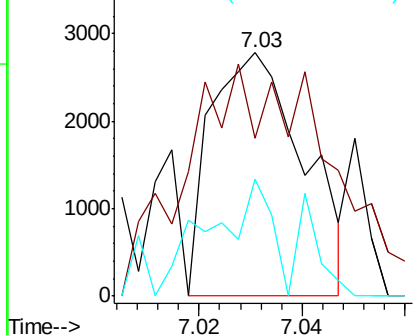


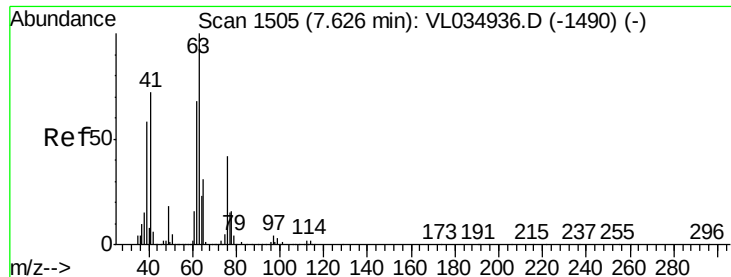
#35
 Carbon Tetrachloride
 Concen: 0.021 ppbv
 RT: 7.03 min Scan# 1320
 Delta R.T. 0.00 min
 Lab File: VL034952.D
 Acq: 7 May 2020 2:41

Tgt Ion:117 Resp: 3475
 Ion Ratio Lower Upper
 117 100
 119 13.4 77.0 115.6#
 121 41.6 23.0 34.6#



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

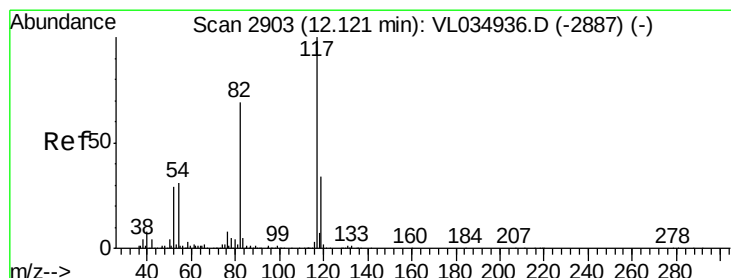
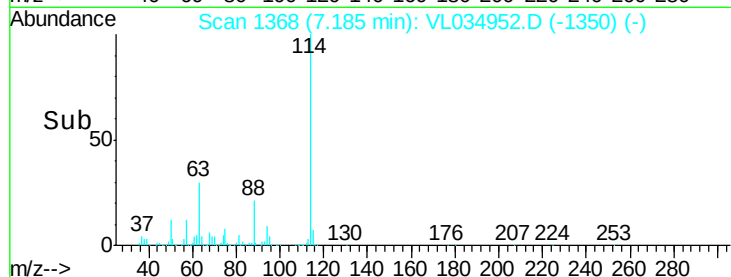
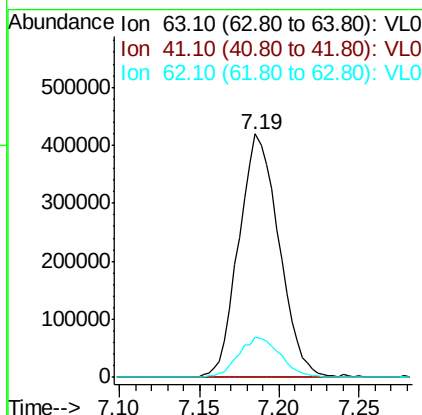
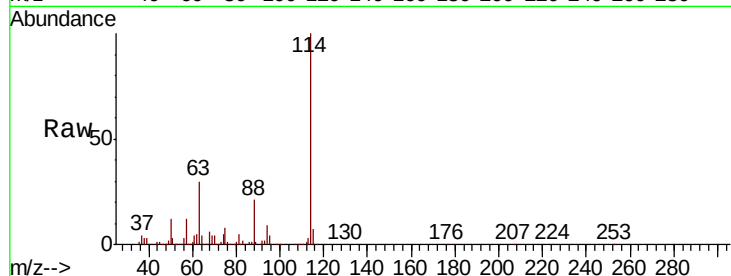




#39
 1,2-Dichloropropane
 Concen: 8.438 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. -0.44 min
 Lab File: VL034952.D
 Acq: 7 May 2020 2:41

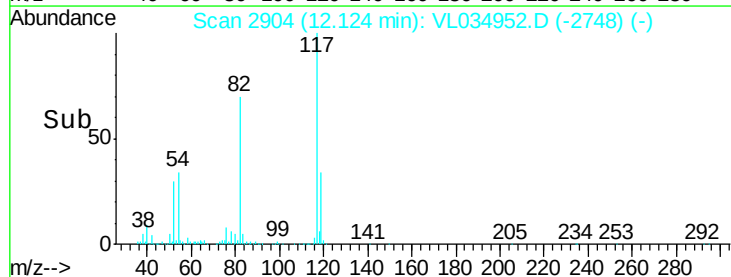
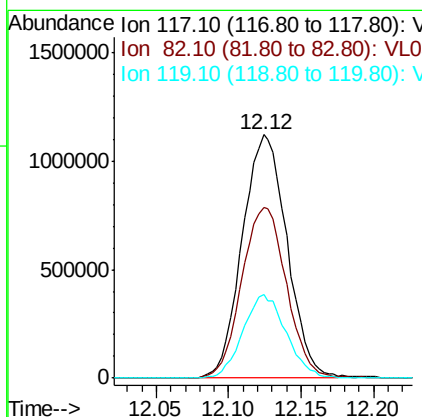
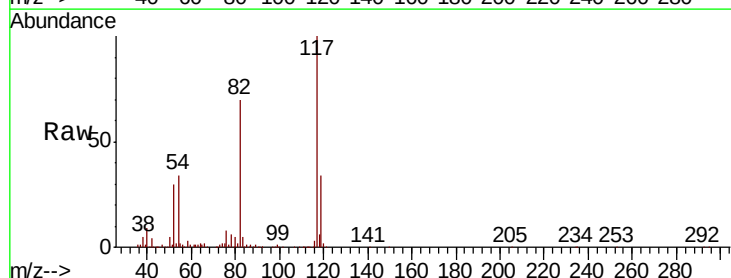
Instrument :
 MSVOA_L
 ClientSampled :

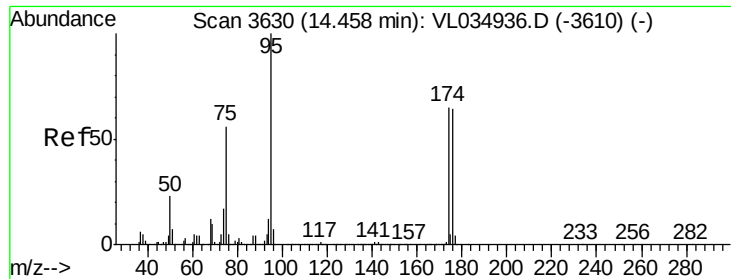
Tot Ion: 63 Resp: 716768
 Ion Ratio Lower Upper
 63 100
 41 0.0 57.8 86.8#
 62 16.3 54.2 81.2#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.12 min Scan# 2904
 Delta R.T. 0.00 min
 Lab File: VL034952.D
 Acq: 7 May 2020 2:41

Tgt Ion: 117 Resp: 2402568
 Ion Ratio Lower Upper
 117 100
 82 70.5 53.1 79.7
 119 33.6 26.7 40.1





#68

1-Bromo-4-Fluorobenzene

Concen: 10.313 ppbv

RT: 14.46 min Scan# 3630

Delta R.T. -0.00 min

Lab File: VL034952.D

Acq: 7 May 2020 2:41

Instrument :

MSVOA_L

ClientSampleId :

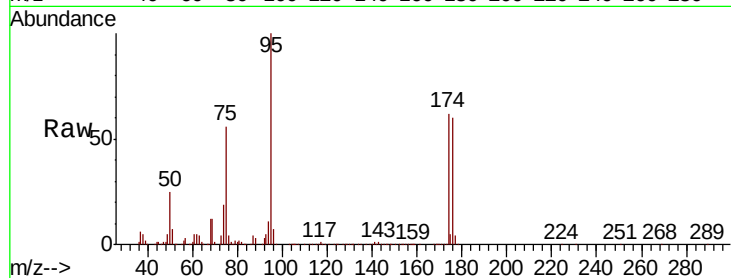
Tot Ion: 95 Resp: 2005642

Ion Ratio Lower Upper

95 100

174 64.5 51.5 77.3

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

