

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL063020\
 Data File : VL035139.D
 Acq On : 1 Jul 2020 00:14
 Operator : SY/AP
 Sample : OC062920 CAN 10661
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 01 03:03:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sat Jun 20 02:10:36 2020
 QLast Update : Sat Jun 20 02:10:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1124306	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2744909	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2701870	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	2242641	9.99	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%

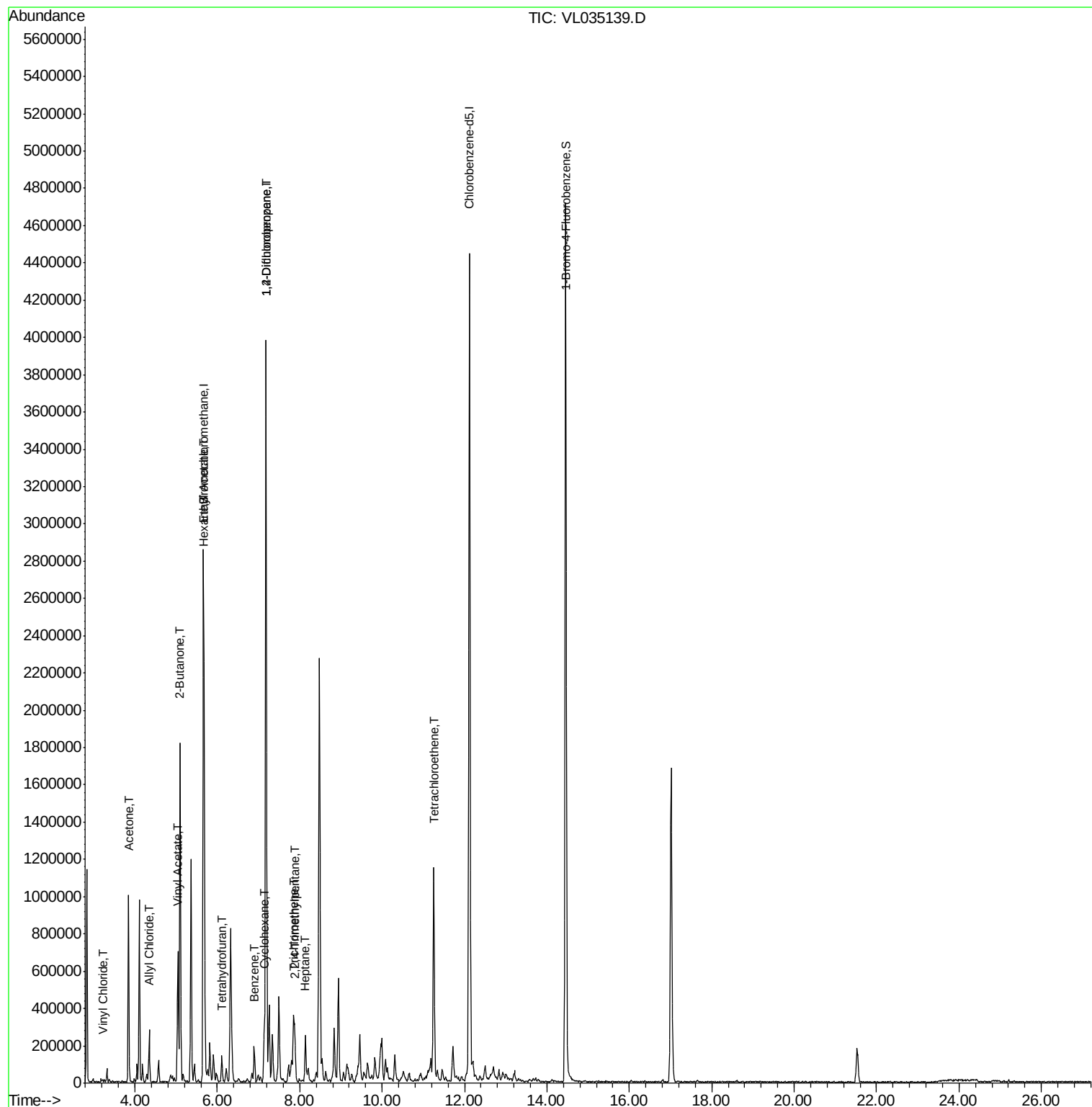
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.22	62	12281	0.185	ppbv #	78
10) Heptane	8.14	43	49097	0.385	ppbv #	26
15) Acetone	3.84	43	321796	2.367	ppbv #	61
21) Allyl Chloride	4.34	41	45136	0.559	ppbv #	49
23) Vinyl Acetate	5.04	43	215216	1.304	ppbv #	1
25) Ethyl Acetate	5.68	43	359716	1.466	ppbv #	76
26) Hexane	5.68	57	527224	4.767	ppbv #	41
30) Cyclohexane	7.14	84	76805	0.968	ppbv	91
34) 2-Butanone	5.10	43	883798	5.607	ppbv #	57
36) Benzene	6.90	78	125126	0.589	ppbv	98
38) Trichloroethene	7.85	130	90986	1.102	ppbv	96
39) 1,2-Dichloropropane	7.18	63	761956	9.166	ppbv #	25
41) Tetrahydrofuran	6.11	42	3922	0.049	ppbv #	35
44) 2,2,4-Trimethylpentane	7.88	57	156602	0.422	ppbv #	58
52) Tetrachloroethene	11.26	164	283956	3.791	ppbv	95

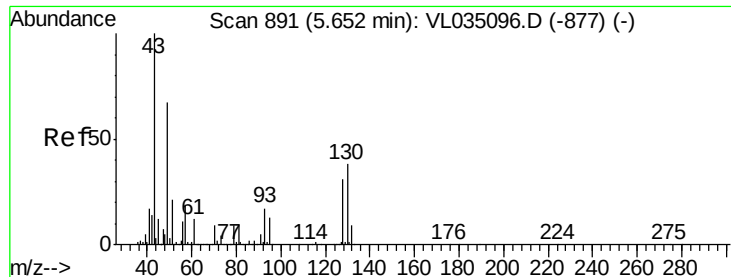
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jun 20 02:10:36 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. 0.01 min

Lab File: VL035139.D

Acq: 1 Jul 2020 00:14

Instrument :

MSVOA_L

ClientSampleId :

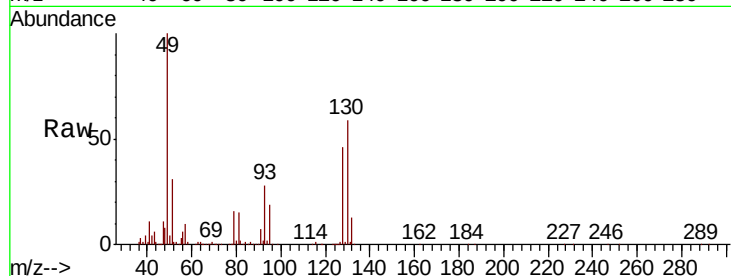
Tot Ion: 49 Resp: 1124306

Ion Ratio Lower Upper

49 100

128 47.1 22.9 68.5

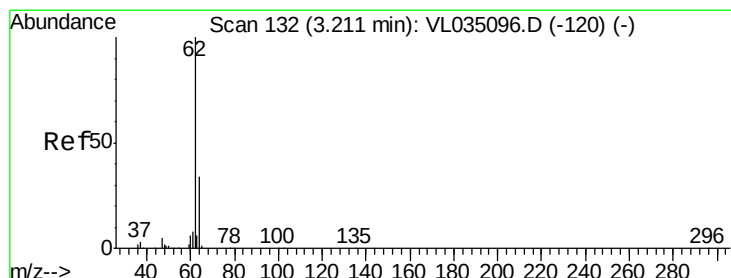
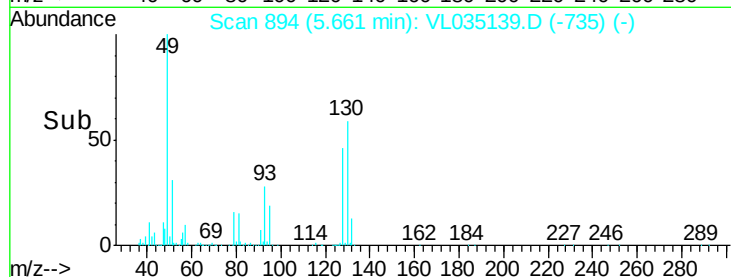
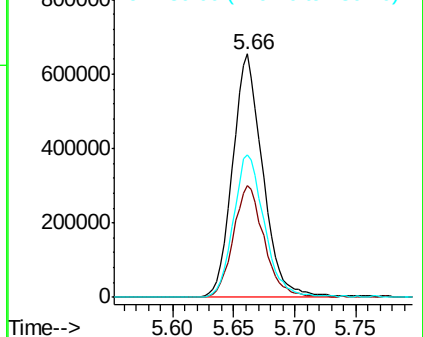
130 60.8 29.0 87.0



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



#5

Vinyl Chloride

Concen: 0.185 ppbv

RT: 3.22 min Scan# 136

Delta R.T. 0.01 min

Lab File: VL035139.D

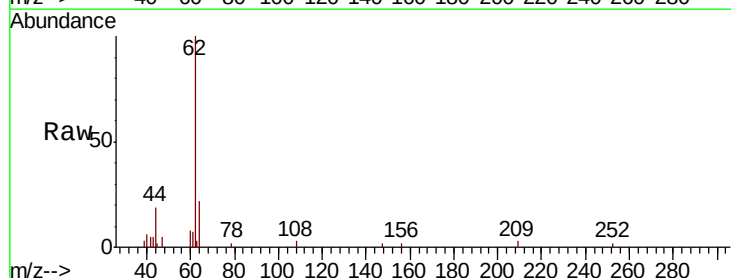
Acq: 1 Jul 2020 00:14

Tgt Ion: 62 Resp: 12281

Ion Ratio Lower Upper

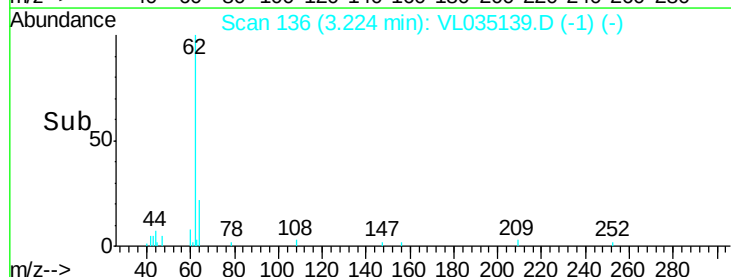
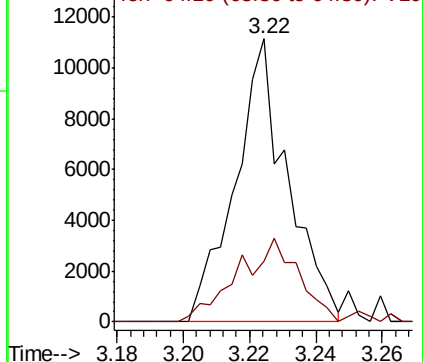
62 100

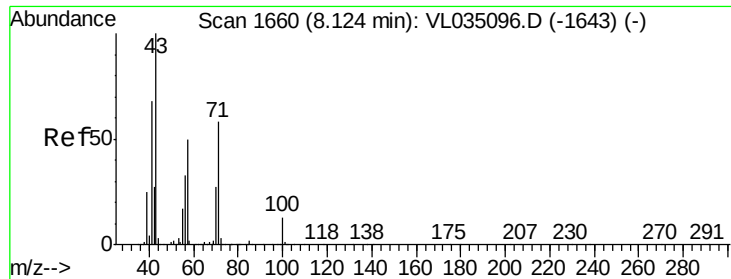
64 21.0 27.0 40.4#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

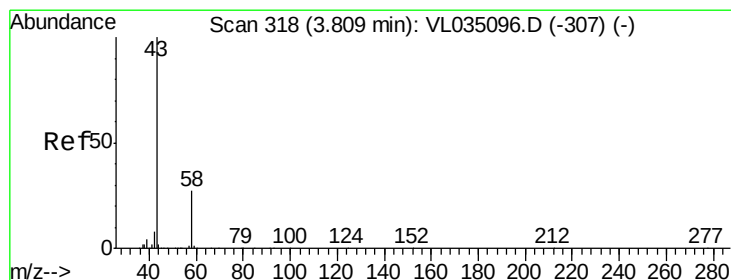
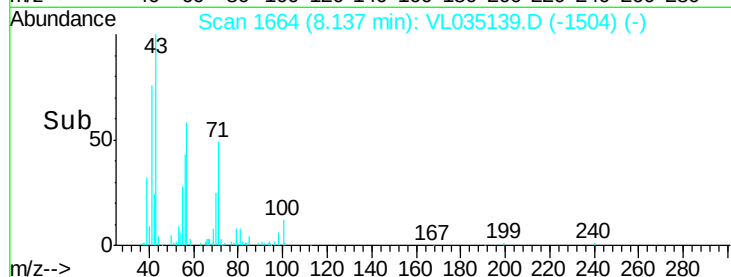
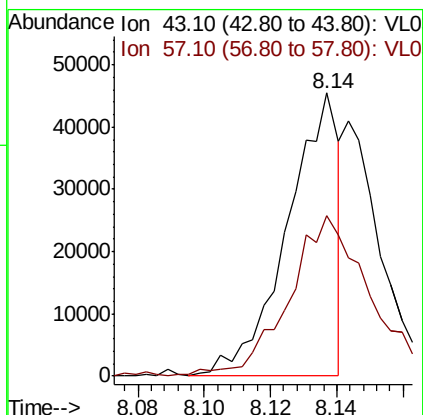
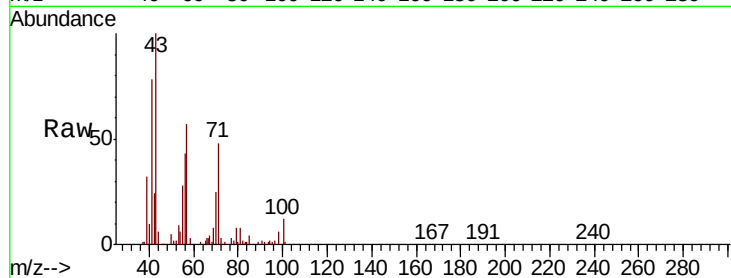




#10
Heptane
Concen: 0.385 ppbv
RT: 8.14 min Scan# 1664
Delta R.T. 0.01 min
Lab File: VL035139.D
Acq: 1 Jul 2020 00:14

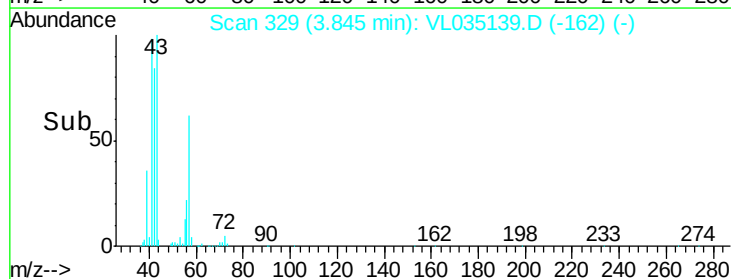
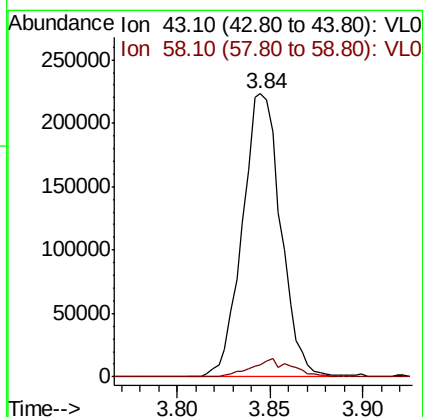
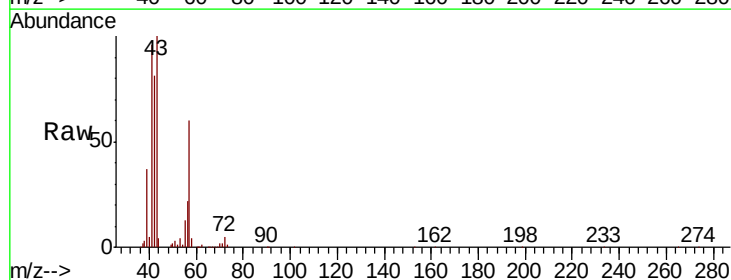
Instrument :
MSVOA_L
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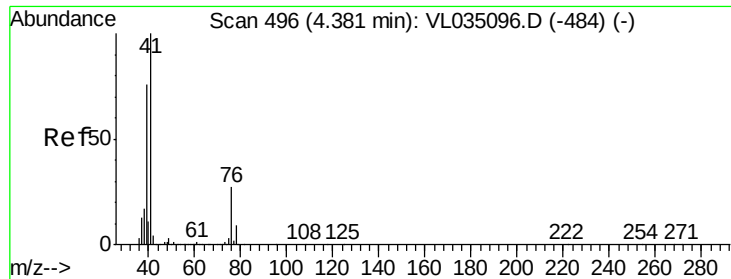
Tot Ion: 43 Resp: 49097
Ion Ratio Lower Upper
43 100
57 0.0 41.9 62.9#



#15
Acetone
Concen: 2.367 ppbv
RT: 3.84 min Scan# 329
Delta R.T. 0.04 min
Lab File: VL035139.D
Acq: 1 Jul 2020 00:14

Tgt Ion: 43 Resp: 321796
Ion Ratio Lower Upper
43 100
58 6.7 21.8 32.6#

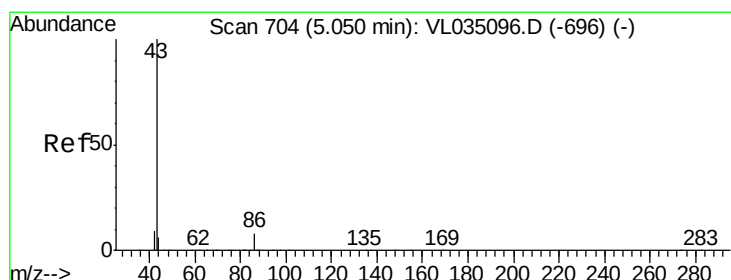
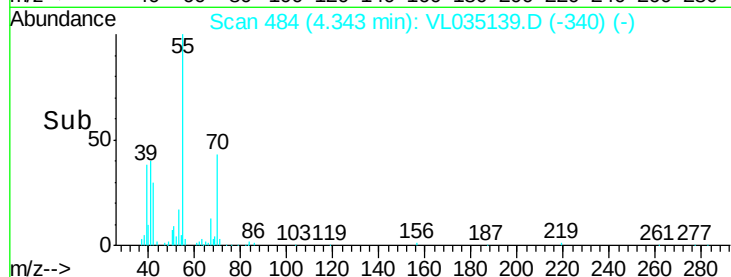
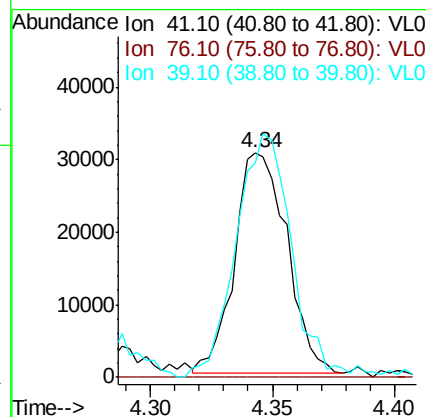
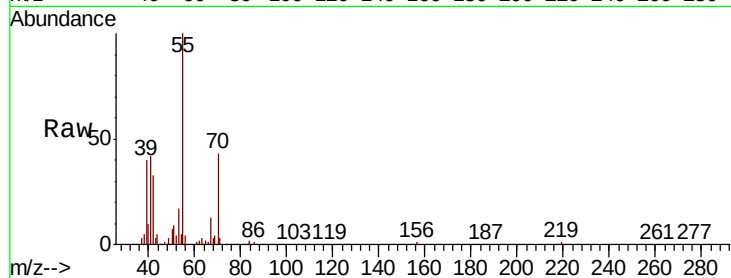




#21
Allvl Chloride
Concen: 0.559 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.04 min
Lab File: VL035139.D
Acq: 1 Jul 2020 00:14

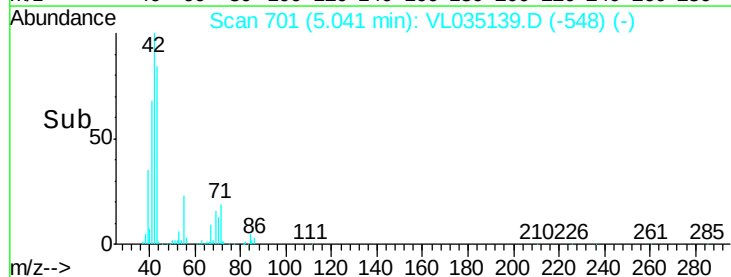
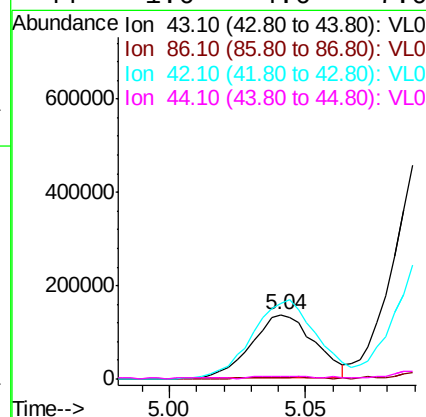
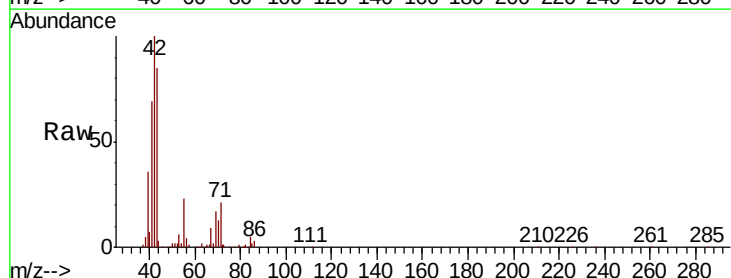
Instrument :
MSVOA_L
ClientSampleId :

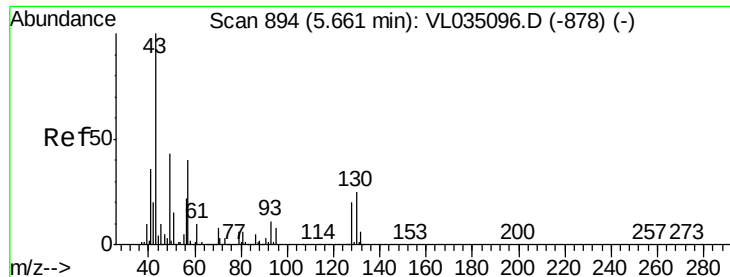
Tot Ion: 41 Resp: 45136
Ion Ratio Lower Upper
41 100
76 0.0 22.6 34.0#
39 119.7 61.6 92.4#



#23
Vinyl Acetate
Concen: 1.304 ppbv
RT: 5.04 min Scan# 701
Delta R.T. -0.01 min
Lab File: VL035139.D
Acq: 1 Jul 2020 00:14

Tgt Ion: 43 Resp: 215216
Ion Ratio Lower Upper
43 100
86 3.1 6.2 9.2#
42 118.4 8.1 12.1#
44 1.6 4.6 7.0#

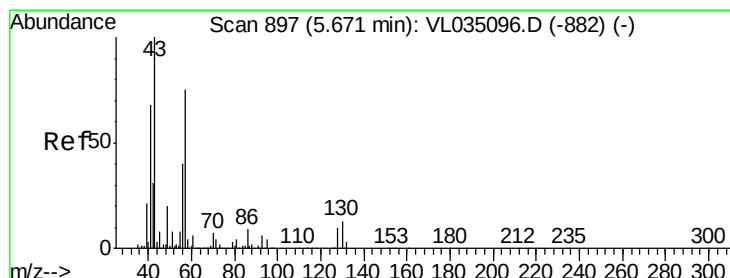
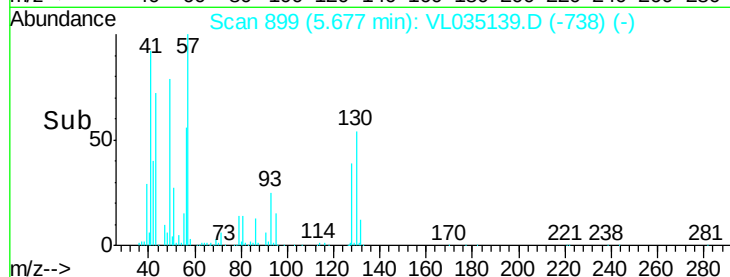
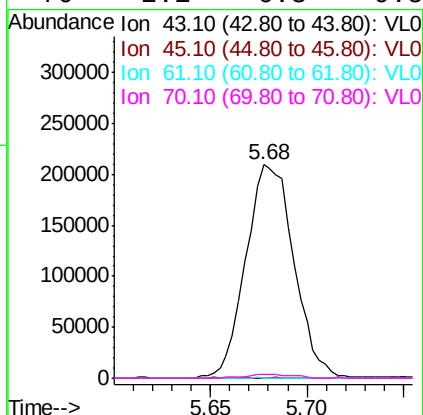
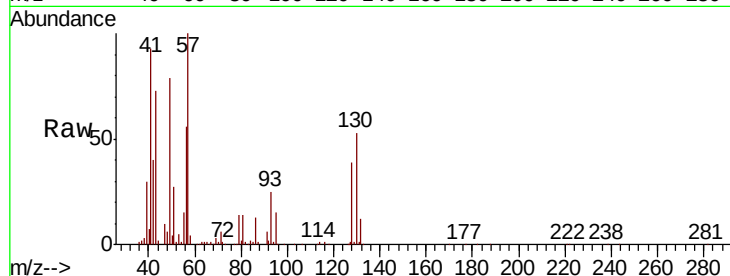




#25
Ethyl Acetate
Concen: 1.466 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.02 min
Lab File: VL035139.D
Acq: 1 Jul 2020 00:14

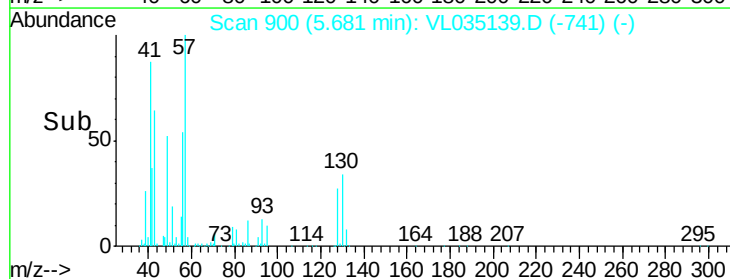
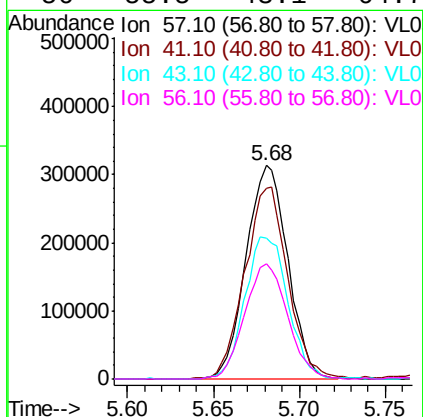
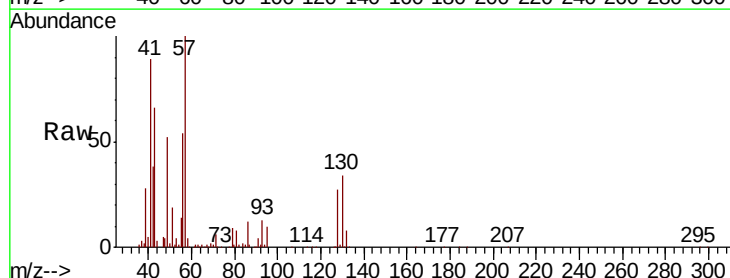
Instrument :
MSVOA_L
ClientSampleId :

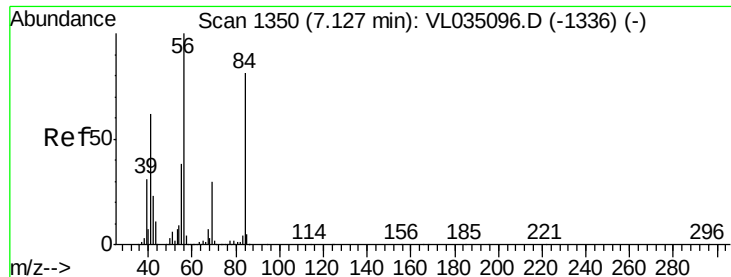
Tot Ion:	43	Resp:	359716
Ion	Ratio	Lower	Upper
43	100		
45	0.2	8.4	12.6#
61	0.1	8.0	12.0#
70	2.1	6.3	9.5#



#26
Hexane
Concen: 4.767 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL035139.D
Acq: 1 Jul 2020 00:14

Tgt Ion:	57	Resp:	527224
Ion	Ratio	Lower	Upper
57	100		
41	93.3	72.9	109.3
43	69.3	181.3	271.9#
56	55.5	43.1	64.7

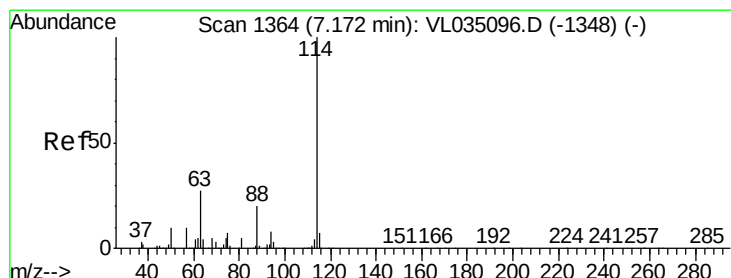
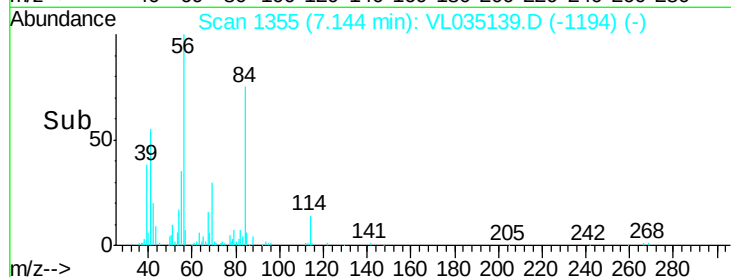
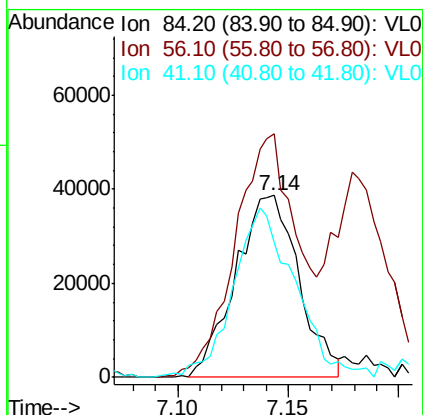
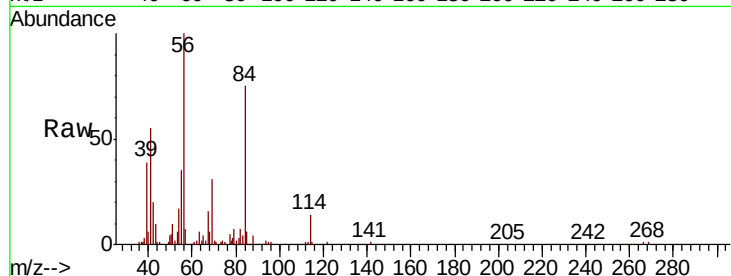




#30
Cyclohexane
Concen: 0.968 ppbv
RT: 7.14 min Scan# 1355
Delta R.T. 0.02 min
Lab File: VL035139.D
Acq: 1 Jul 2020 00:14

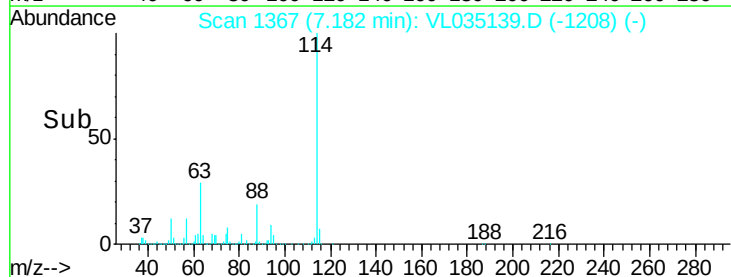
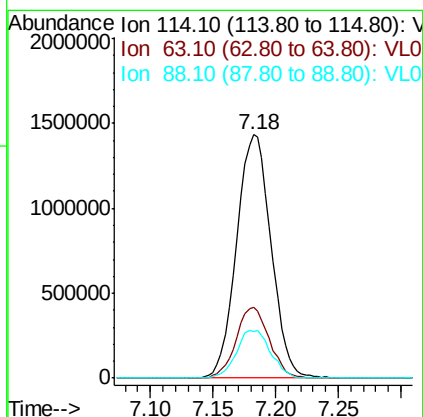
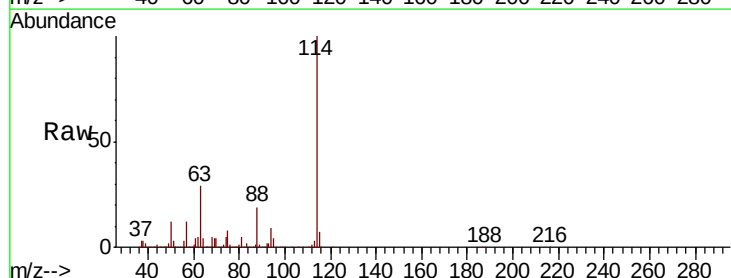
Instrument :
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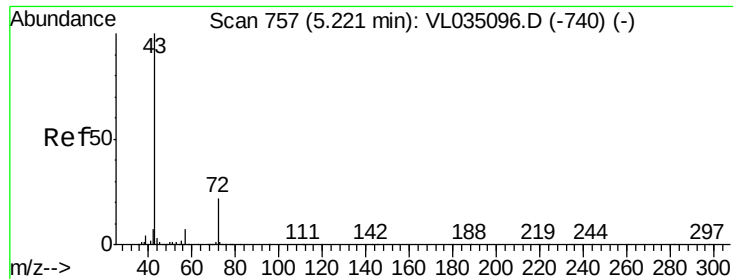
Tot Ion: 84 Resp: 76805
Ion Ratio Lower Upper
84 100
56 125.8 108.0 162.0
41 91.2 65.6 98.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. 0.01 min
Lab File: VL035139.D
Acq: 1 Jul 2020 00:14

Tgt Ion: 114 Resp: 2744909
Ion Ratio Lower Upper
114 100
63 27.9 21.9 32.9
88 19.6 15.6 23.4

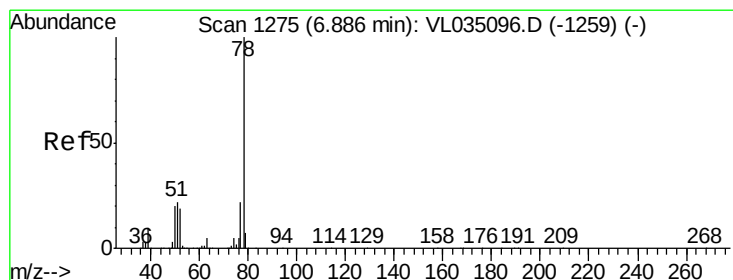
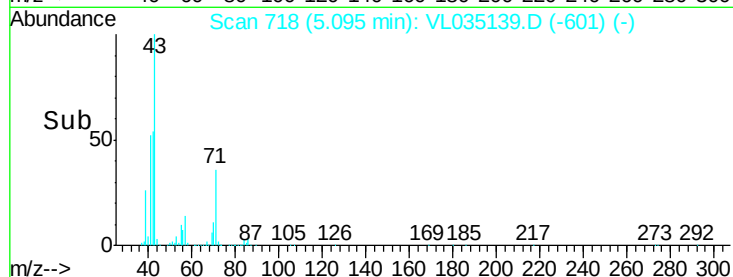
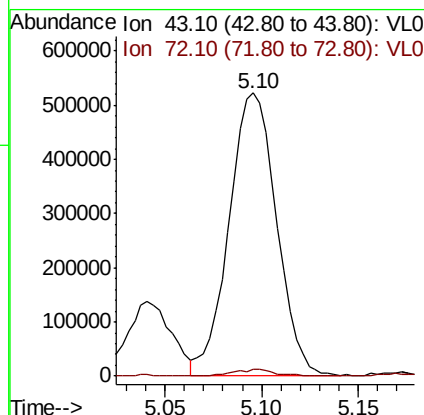
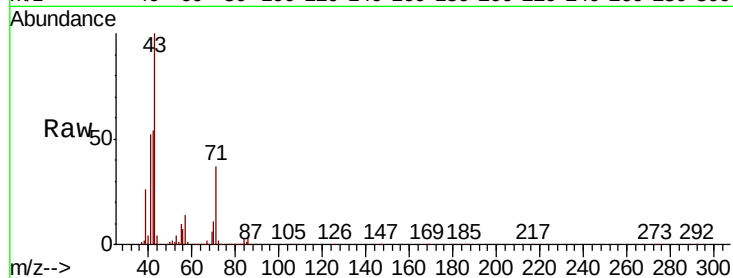




#34
2-Butanone
Concen: 5.607 ppbv
RT: 5.10 min Scan# 718
Delta R.T. -0.13 min
Lab File: VL035139.D
Acq: 1 Jul 2020 00:14

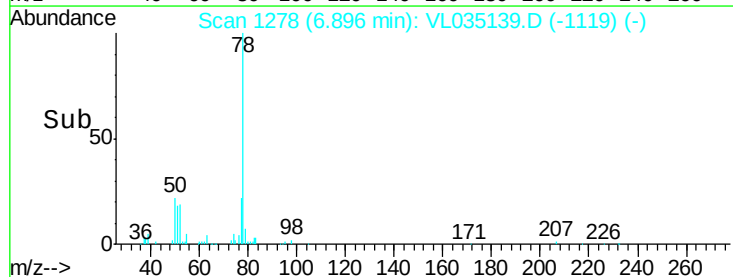
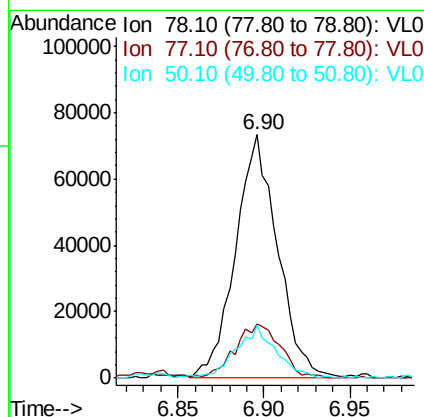
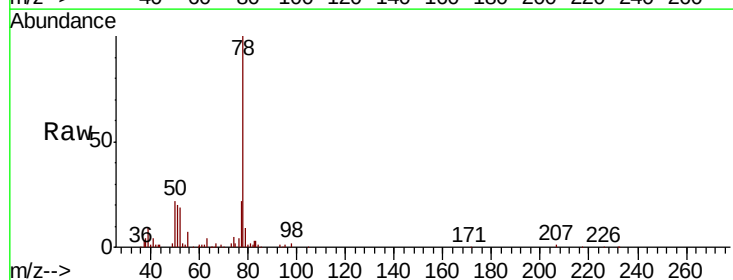
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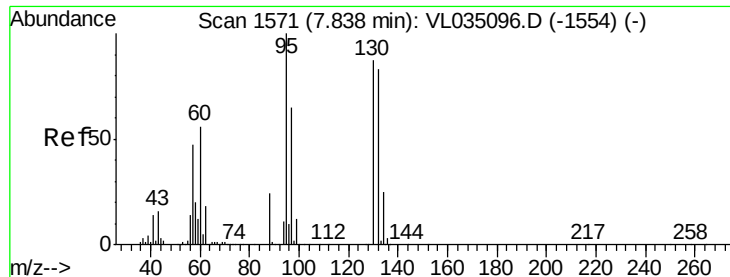
Tot Ion: 43 Resp: 883798
Ion Ratio Lower Upper
43 100
72 2.2 18.3 27.5#



#36
Benzene
Concen: 0.589 ppbv
RT: 6.90 min Scan# 1278
Delta R.T. 0.01 min
Lab File: VL035139.D
Acq: 1 Jul 2020 00:14

Tgt Ion: 78 Resp: 125126
Ion Ratio Lower Upper
78 100
77 22.5 17.8 26.6
50 21.8 16.2 24.2

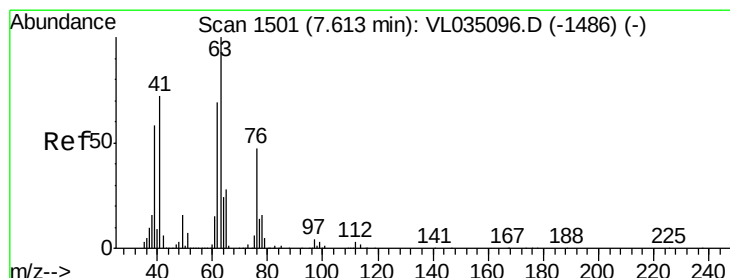
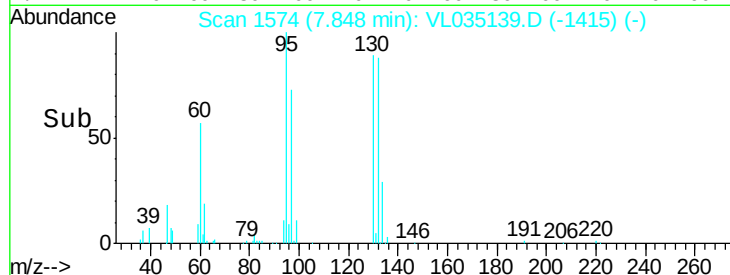
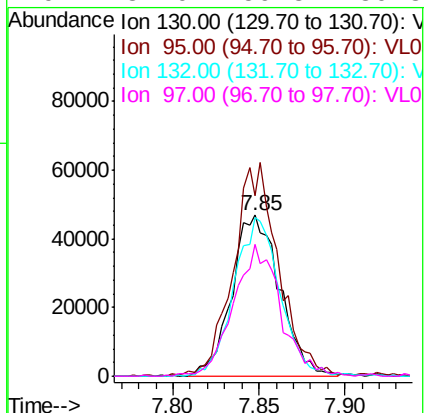
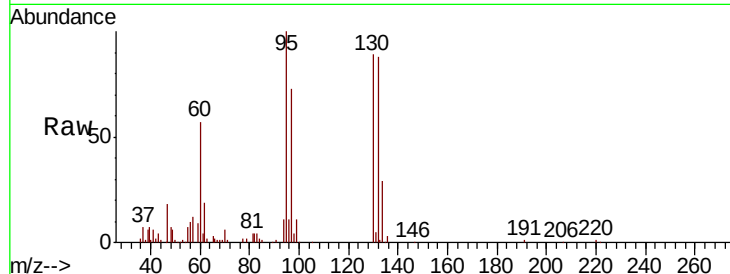




#38
 Trichloroethene
 Concen: 1.102 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T. 0.01 min
 Lab File: VL035139.D
 Acq: 1 Jul 2020 00:14

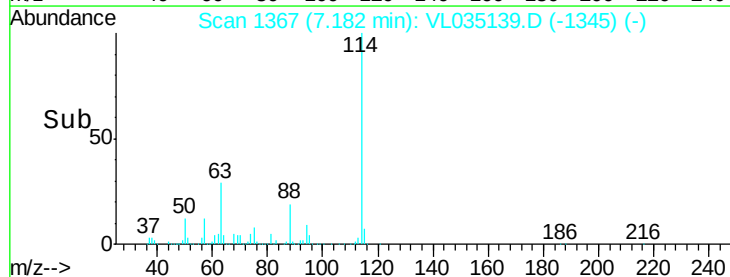
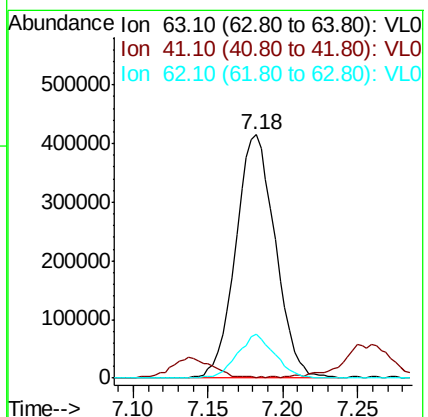
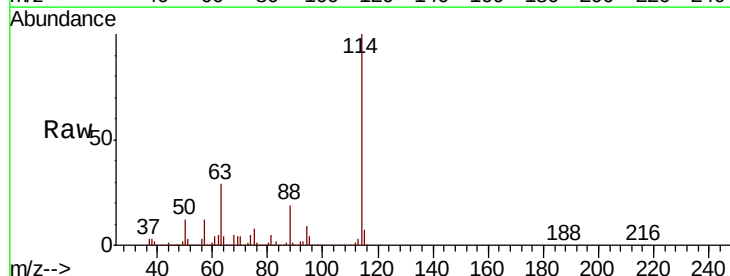
Instrument :
 MSVOA_L
 ClientSampleId :

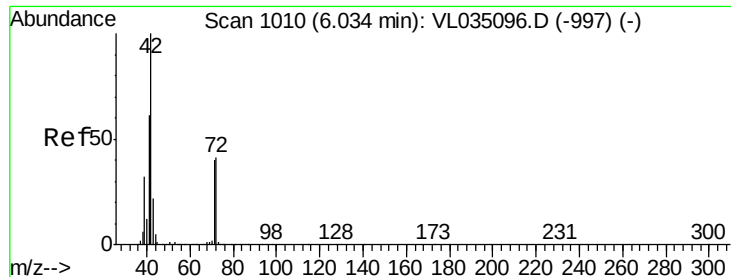
Tot Ion:130 Resp: 90986
 Ion Ratio Lower Upper
 130 100
 95 111.1 91.4 137.2
 132 98.3 75.8 113.6
 97 81.0 59.8 89.8



#39
 1,2-Dichloropropane
 Concen: 9.166 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.43 min
 Lab File: VL035139.D
 Acq: 1 Jul 2020 00:14

Tgt Ion: 63 Resp: 761956
 Ion Ratio Lower Upper
 63 100
 41 0.0 58.0 87.0#
 62 17.8 55.4 83.0#





#41

Tetrahydrofuran

Concen: 0.049 ppbv

RT: 6.11 min Scan# 1033

Delta R.T. 0.07 min

Lab File: VL035139.D

Acq: 1 Jul 2020 00:14

Instrument :

MSVOA_L

ClientSampleId :

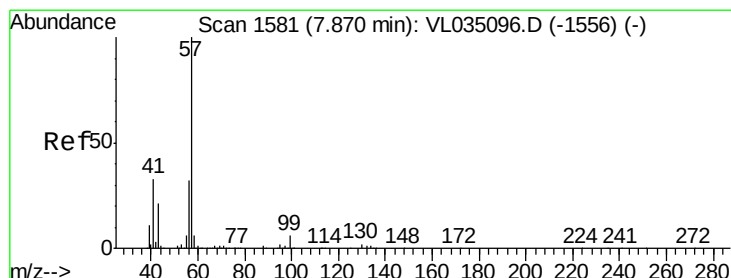
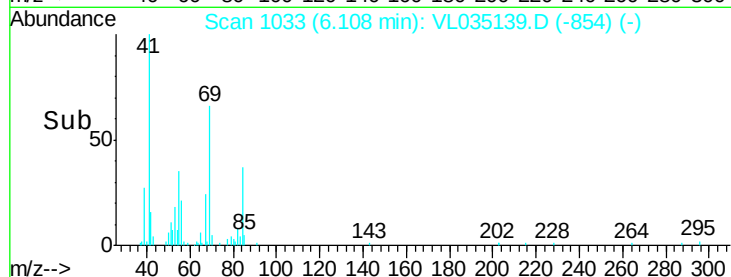
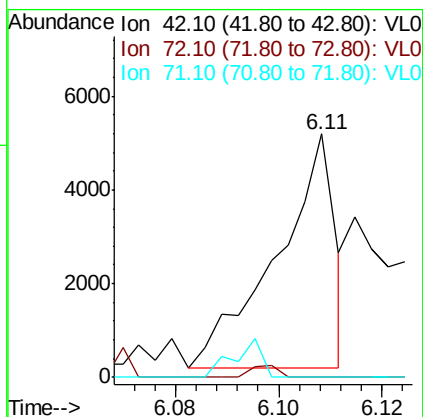
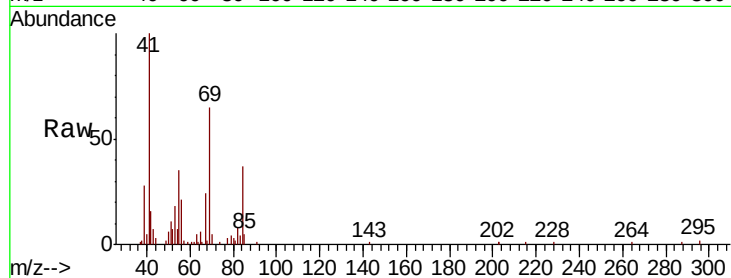
Tot Ion: 42 Resp: 3922

Ion Ratio Lower Upper

42 100

72 0.0 33.4 50.2#

71 0.0 31.8 47.6#



#44

2,2,4-Trimethylpentane

Concen: 0.422 ppbv

RT: 7.88 min Scan# 1585

Delta R.T. 0.01 min

Lab File: VL035139.D

Acq: 1 Jul 2020 00:14

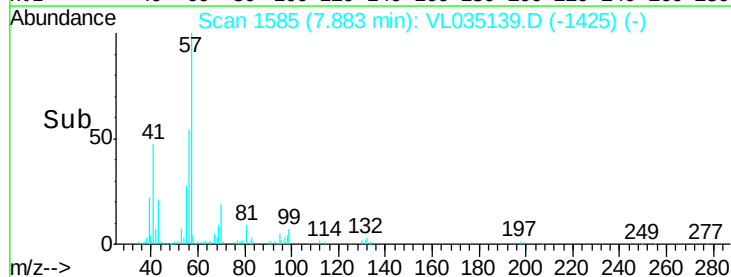
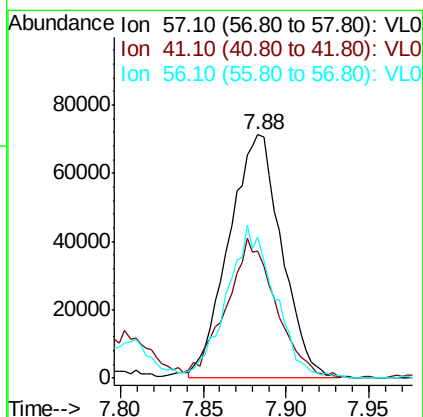
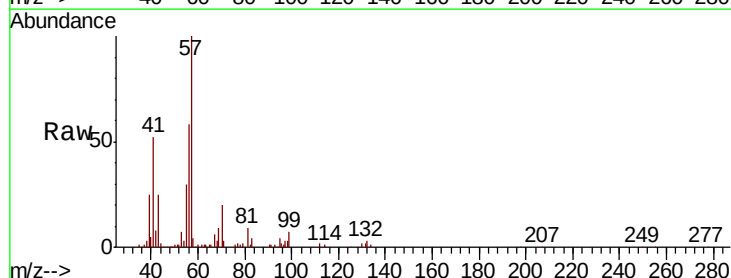
Tgt Ion: 57 Resp: 156602

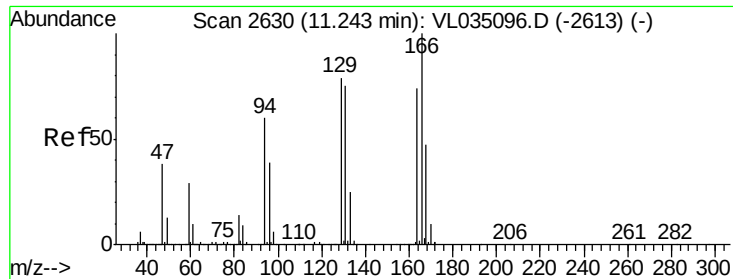
Ion Ratio Lower Upper

57 100

41 54.1 26.2 39.2#

56 57.4 25.4 38.2#

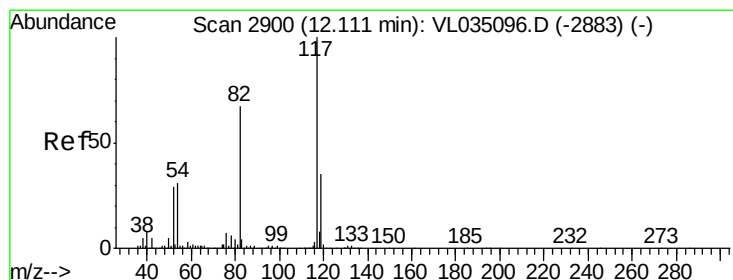
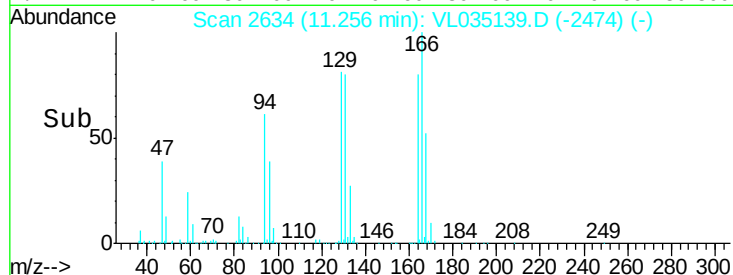
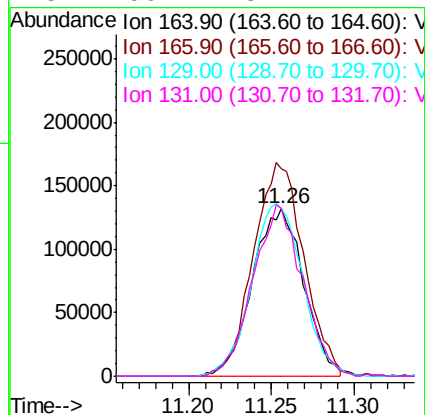
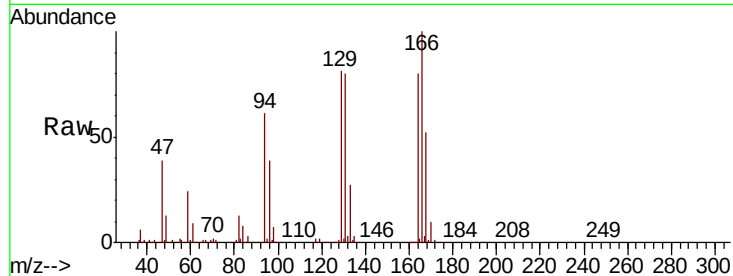




#52
Tetrachloroethene
Concen: 3.791 ppbv
RT: 11.26 min Scan# 2634
Delta R.T. 0.01 min
Lab File: VL035139.D
Acq: 1 Jul 2020 00:14

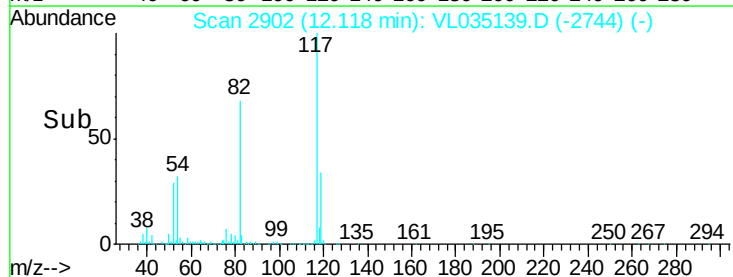
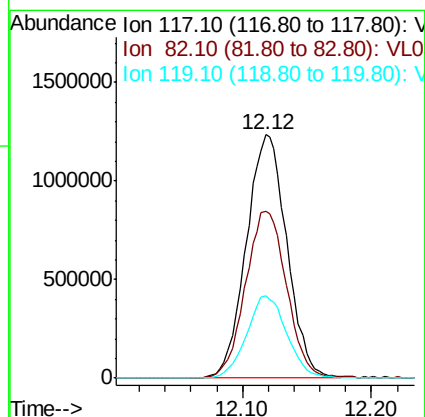
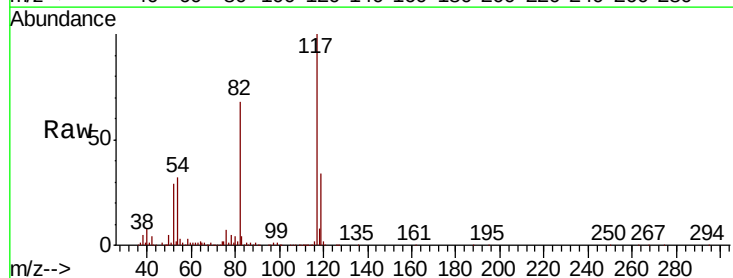
Instrument :
MSVOA_L
ClientSampleId :

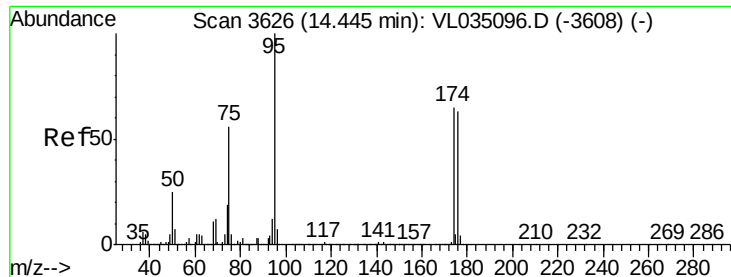
Tot Ion:164 Resp: 283956
Ion Ratio Lower Upper
164 100
166 124.3 107.5 161.3
129 100.4 84.9 127.3
131 100.1 81.1 121.7



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2902
Delta R.T. 0.01 min
Lab File: VL035139.D
Acq: 1 Jul 2020 00:14

Tgt Ion:117 Resp: 2701870
Ion Ratio Lower Upper
117 100
82 69.9 50.4 75.6
119 33.6 25.4 38.0





#68

1-Bromo-4-Fluorobenzene

Concen: 9.992 ppbv

RT: 14.46 min Scan# 3629

Delta R.T. 0.01 min

Lab File: VL035139.D

Acq: 1 Jul 2020 00:14

Instrument :

MSVOA_L

ClientSampleId :

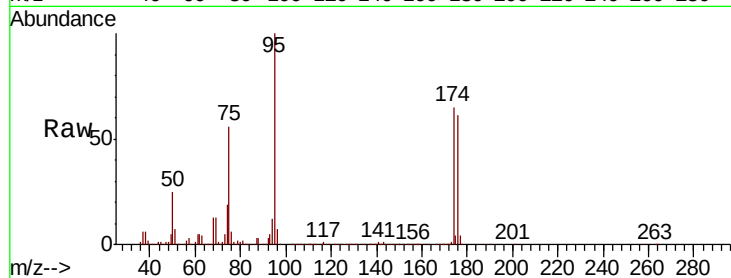
Tot Ion: 95 Resp: 2242641

Ion Ratio Lower Upper

95 100

174 65.3 52.2 78.2

175 4.8 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

