

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080620\
 Data File : VL035362.D
 Acq On : 6 Aug 2020 23:08
 Operator : SY/AP
 Sample : L3554-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 07 06:30:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 05 13:04:46 2020
 QLast Update : Wed Aug 05 13:04:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1427989	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3552846	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.11	117	3341516	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	2708959	9.72	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.20%

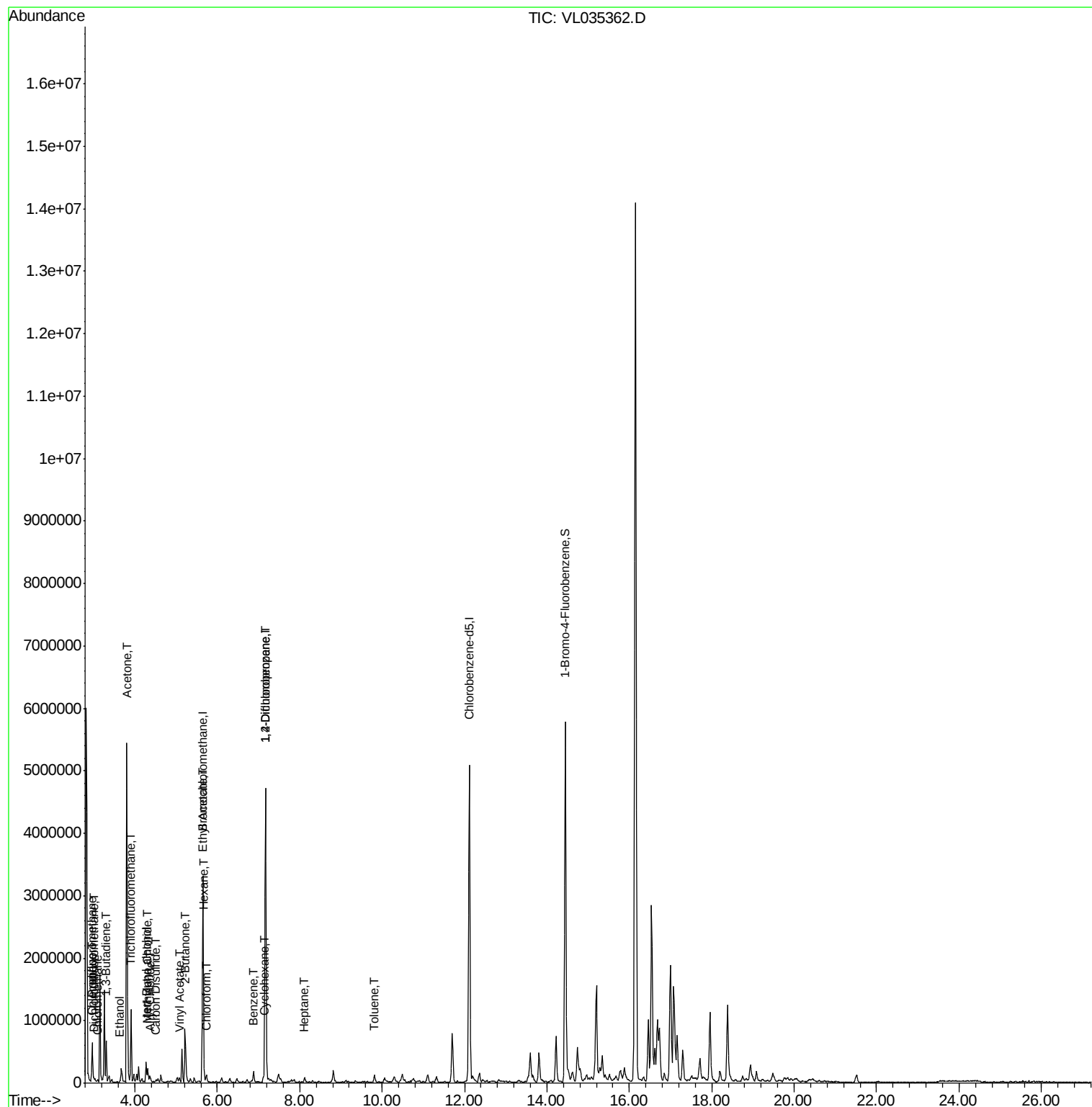
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	40115	0.211 ppbv	95
3) Chlorodifluoromethane	2.94	51	19059	0.117 ppbv	99
4) Chloromethane	3.10	50	3293	0.036 ppbv #	88
9) Propene	2.96	41	218449	3.761 ppbv	95
10) Heptane	8.11	43	26481	0.178 ppbv	98
11) Trichlorofluoromethane	3.91	101	712001	2.893 ppbv	94
13) Ethanol	3.61	45	2520	0.126 ppbv #	37
15) Acetone	3.80	43	5335772	26.312 ppbv #	87
16) 1,3-Butadiene	3.30	39	47589	0.610 ppbv #	9
17) tert-Butyl alcohol	4.27	59	22427	0.120 ppbv #	71
20) Methylene Chloride	4.31	84	62147	0.752 ppbv	89
21) Allyl Chloride	4.37	41	8694	0.075 ppbv #	18
23) Vinyl Acetate	5.08	43	21294	0.110 ppbv #	29
25) Ethyl Acetate	5.66	43	58383	0.189 ppbv #	81
26) Hexane	5.67	57	75754	0.567 ppbv #	40
27) Carbon Disulfide	4.51	76	36349	0.194 ppbv #	92
29) Chloroform	5.74	83	58955	0.256 ppbv	93
30) Cyclohexane	7.13	84	5632	0.056 ppbv #	1
34) 2-Butanone	5.22	43	1066457	6.096 ppbv	95
36) Benzene	6.88	78	126346	0.527 ppbv #	94
39) 1,2-Dichloropropane	7.17	63	907162	9.340 ppbv #	23
53) Toluene	9.81	91	46888	0.180 ppbv #	62

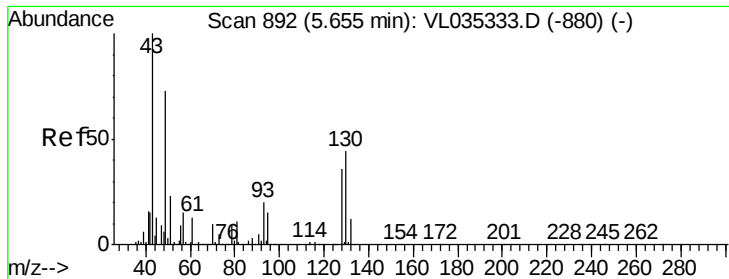
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 05 13:04:46 2020
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.01 min

Lab File: VL035362.D

Acq: 6 Aug 2020 23:08

Instrument :

MSVOA_L

ClientSampleId :

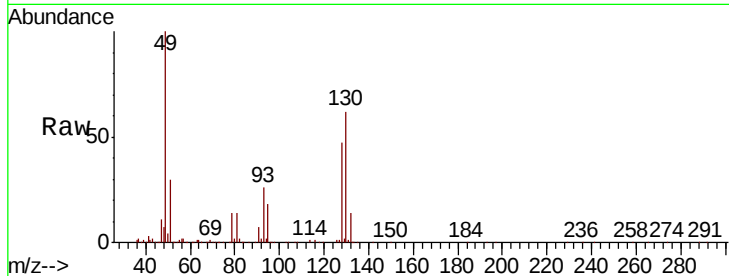
Tot Ion: 49 Resp: 1427989

Ion Ratio Lower Upper

49 100

128 48.3 25.4 76.0

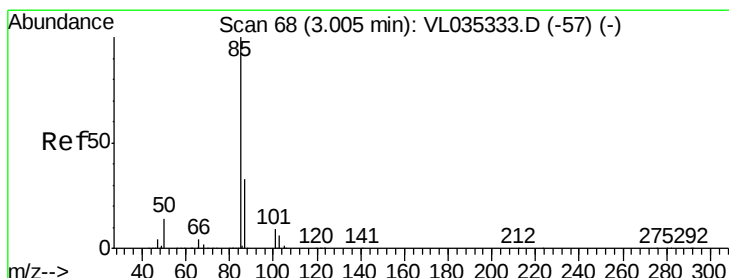
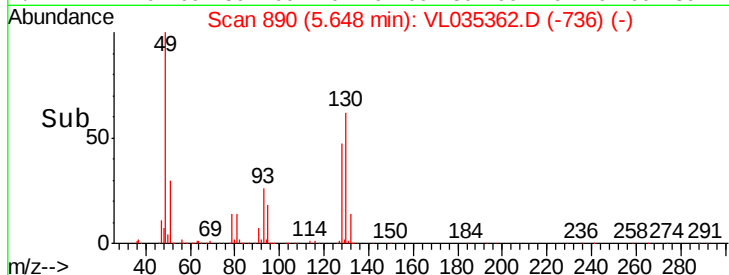
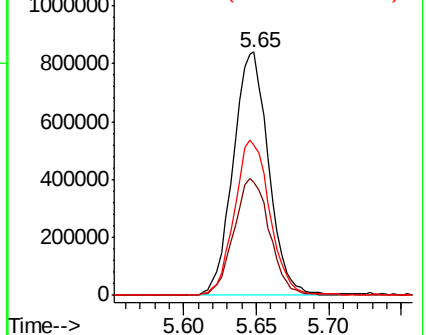
130 63.9 32.1 96.3



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



#2

Dichlorodifluoromethane

Concen: 0.211 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL035362.D

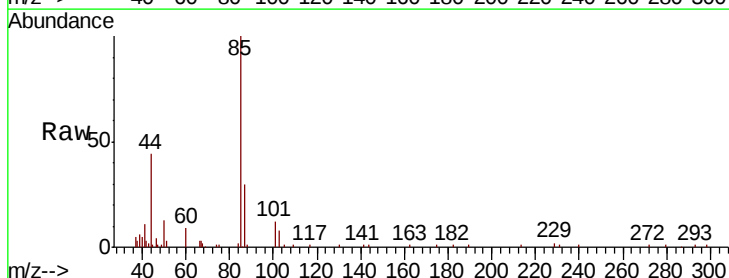
Acq: 6 Aug 2020 23:08

Tgt Ion: 85 Resp: 40115

Ion Ratio Lower Upper

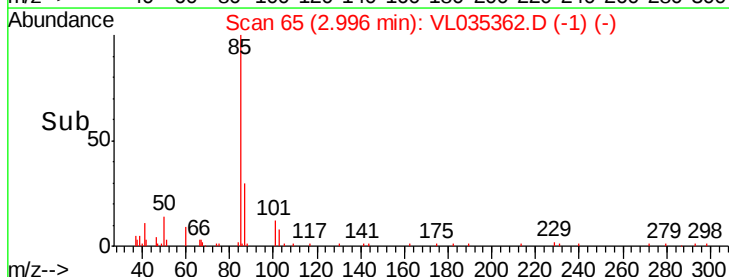
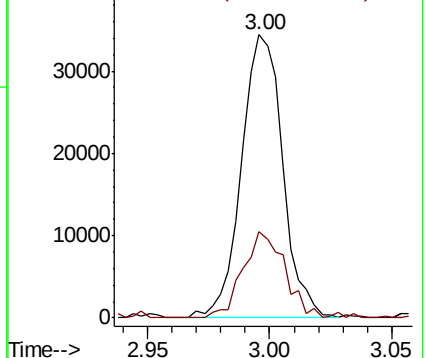
85 100

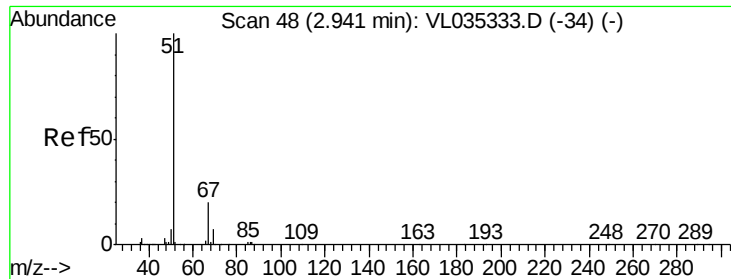
87 30.3 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.117 ppbv

RT: 2.94 min Scan# 48

Delta R.T. 0.00 min

Lab File: VL035362.D

Acq: 6 Aug 2020 23:08

Instrument :

MSVOA_L

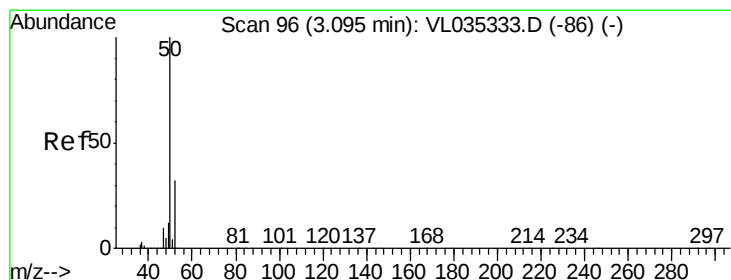
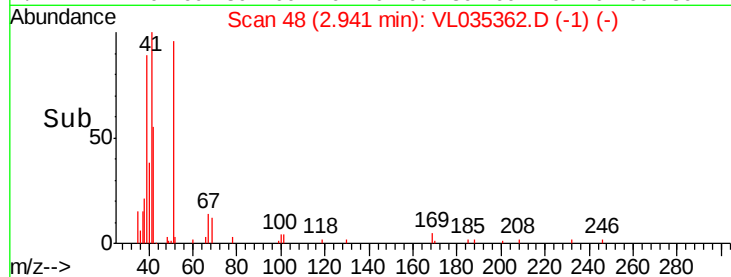
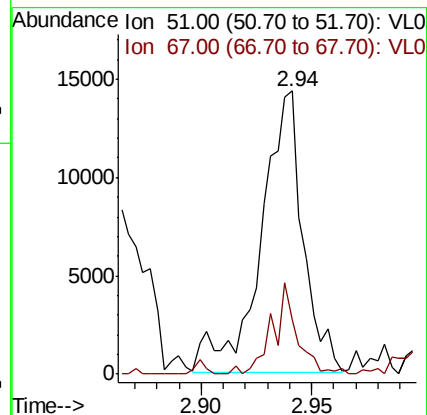
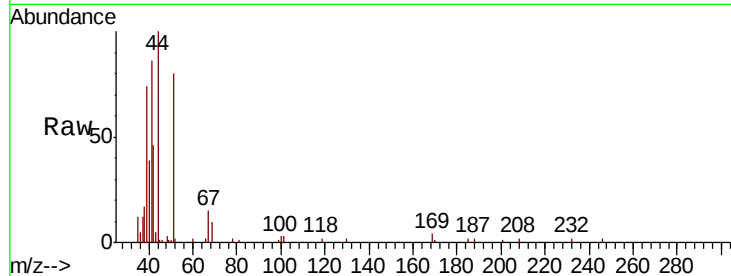
ClientSampleId :

Tot Ion: 51 Resp: 19059

Ion Ratio Lower Upper

51 100

67 20.5 16.6 25.0



#4

Chloromethane

Concen: 0.036 ppbv

RT: 3.10 min Scan# 97

Delta R.T. 0.00 min

Lab File: VL035362.D

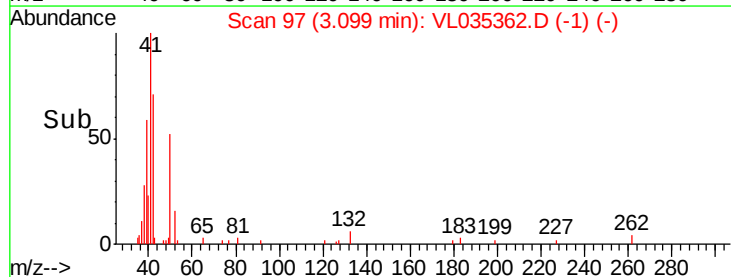
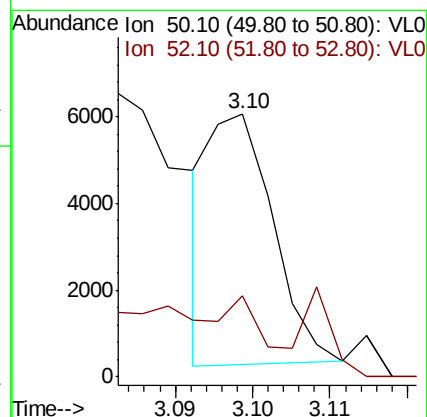
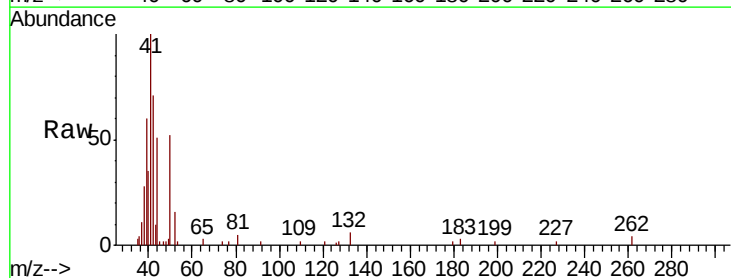
Acq: 6 Aug 2020 23:08

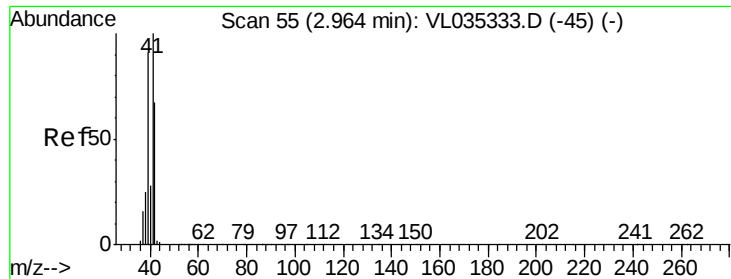
Tgt Ion: 50 Resp: 3293

Ion Ratio Lower Upper

50 100

52 25.9 26.0 39.0#





#9

Propene

Concen: 3.761 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.00 min

Lab File: VL035362.D

Acq: 6 Aug 2020 23:08

Instrument :

MSVOA_L

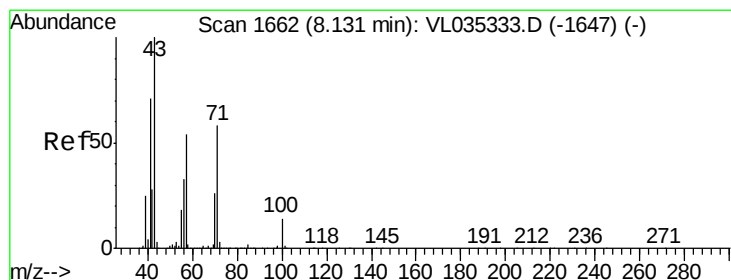
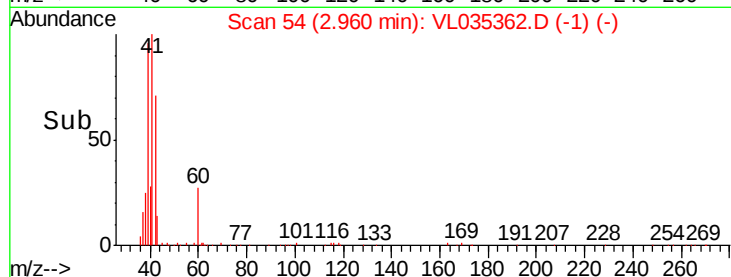
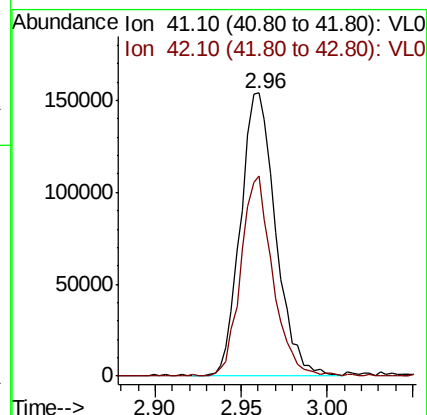
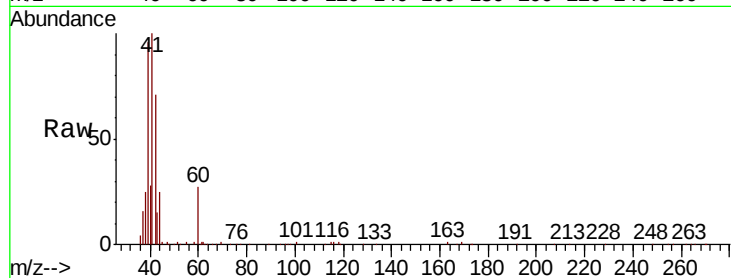
ClientSampleId :

Tot Ion: 41 Resp: 218449

Ion Ratio Lower Upper

41 100

42 64.8 55.3 82.9



#10

Heptane

Concen: 0.178 ppbv

RT: 8.11 min Scan# 1657

Delta R.T. -0.02 min

Lab File: VL035362.D

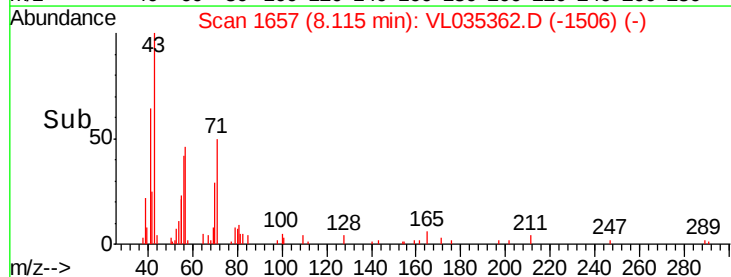
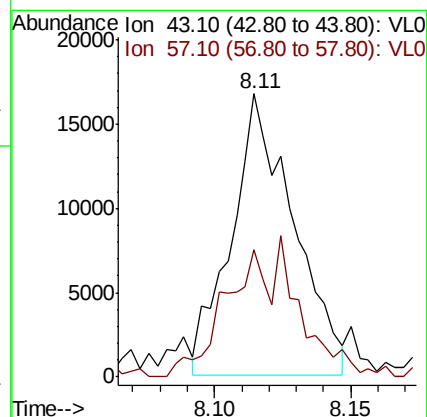
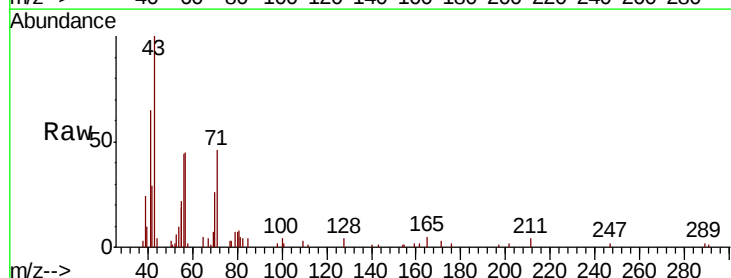
Acq: 6 Aug 2020 23:08

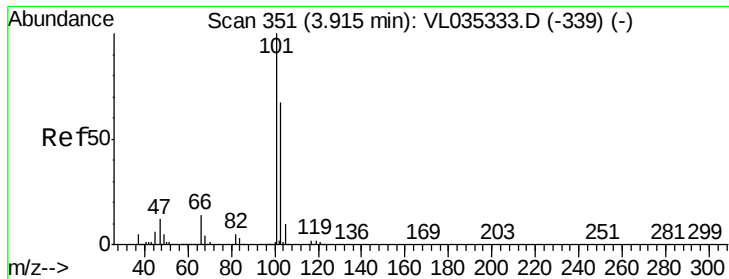
Tgt Ion: 43 Resp: 26481

Ion Ratio Lower Upper

43 100

57 55.4 43.0 64.6

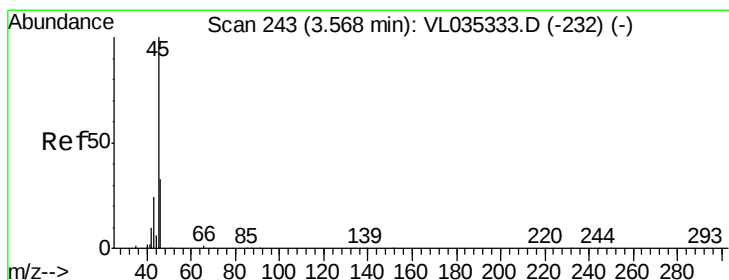
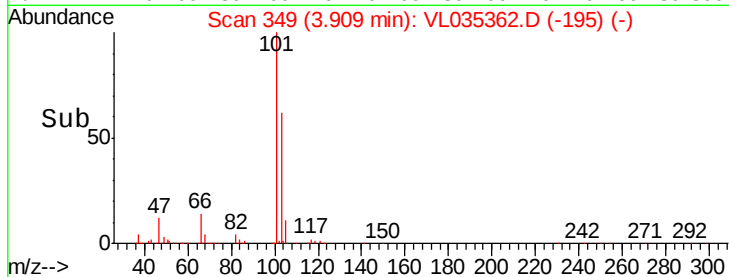
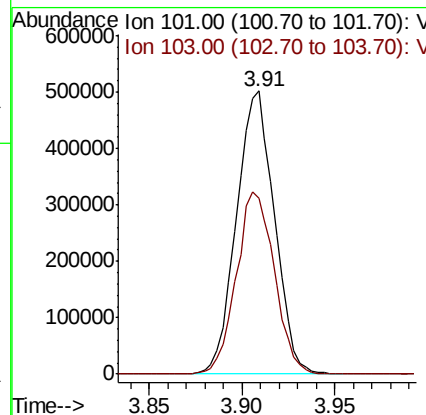
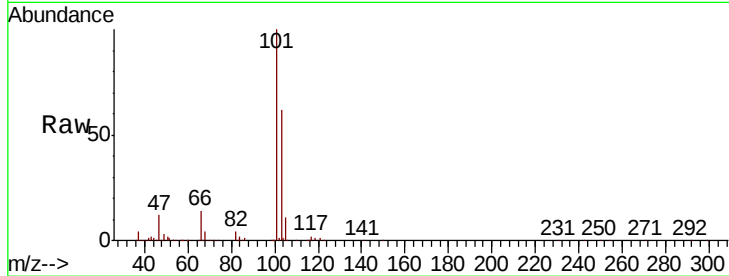




#11
 Trichlorofluoromethane
 Concen: 2.893 ppbv
 RT: 3.91 min Scan# 349
 Delta R.T. -0.01 min
 Lab File: VL035362.D
 Acq: 6 Aug 2020 23:08

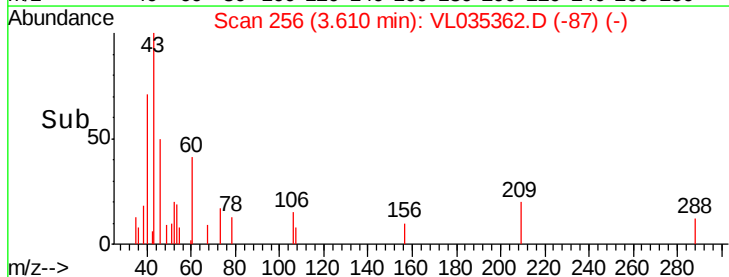
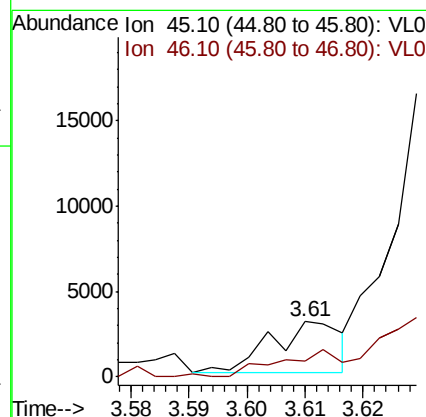
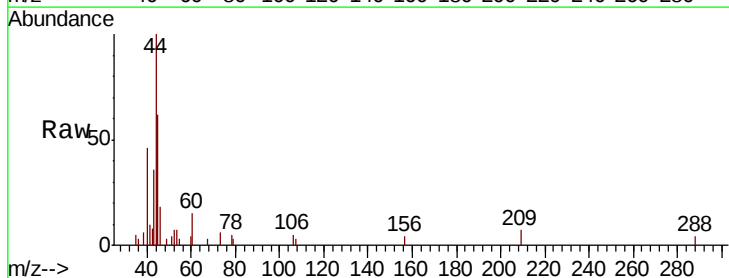
Instrument :
 MSVOA_L
 ClientSampleId :

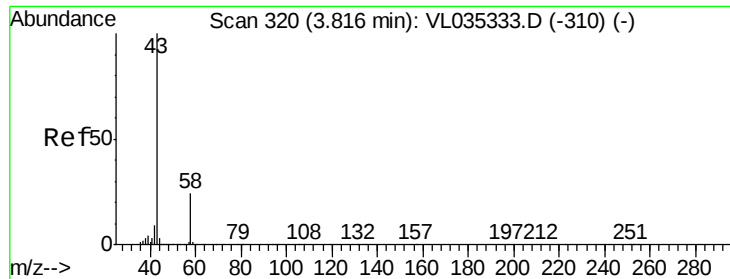
Tot Ion:101 Resp: 712001
 Ion Ratio Lower Upper
 101 100
 103 62.2 53.8 80.8



#13
 Ethanol
 Concen: 0.126 ppbv
 RT: 3.61 min Scan# 256
 Delta R.T. 0.04 min
 Lab File: VL035362.D
 Acq: 6 Aug 2020 23:08

Tgt Ion: 45 Resp: 2520
 Ion Ratio Lower Upper
 45 100
 46 0.0 15.2 61.0#





#15

Acetone

Concen: 26.312 ppbv

RT: 3.80 min Scan# 316

Delta R.T. -0.01 min

Lab File: VL035362.D

Acq: 6 Aug 2020 23:08

Instrument :

MSVOA_L

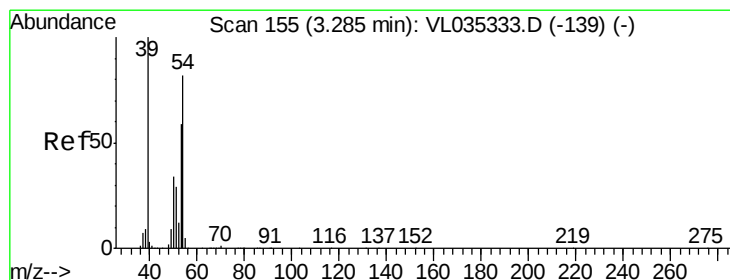
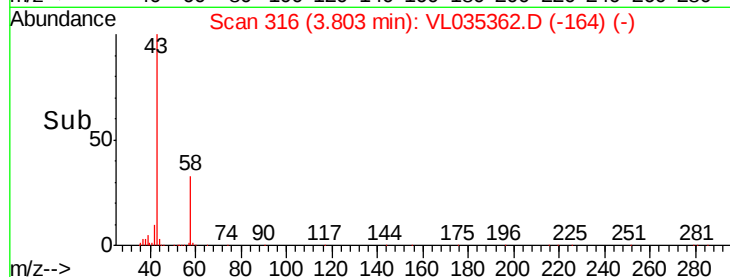
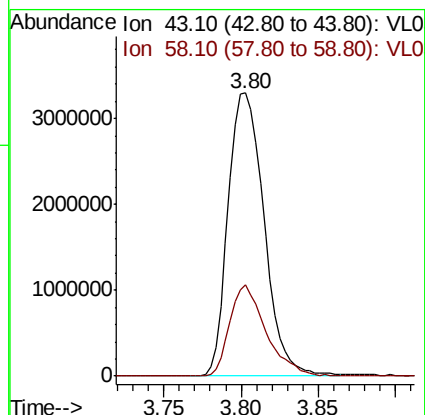
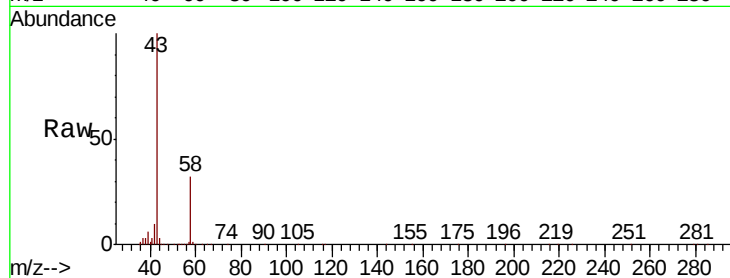
ClientSampleId :

Tot Ion: 43 Resp: 5335772

Ion Ratio Lower Upper

43 100

58 32.6 21.0 31.4#



#16

1,3-Butadiene

Concen: 0.610 ppbv

RT: 3.30 min Scan# 160

Delta R.T. 0.02 min

Lab File: VL035362.D

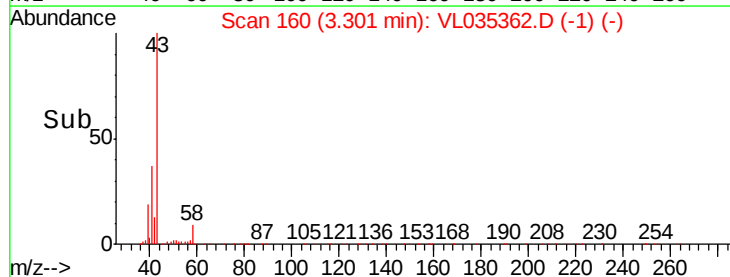
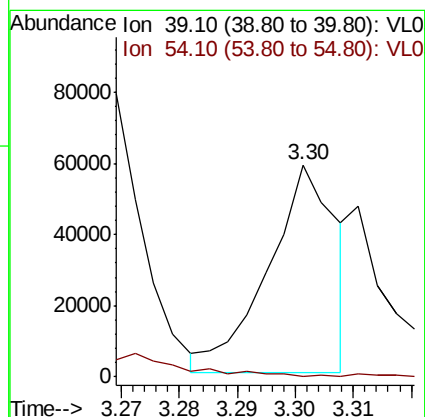
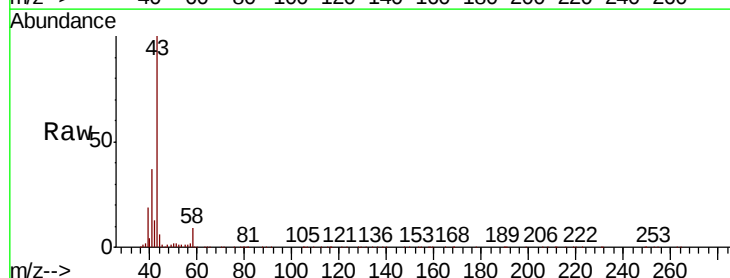
Acq: 6 Aug 2020 23:08

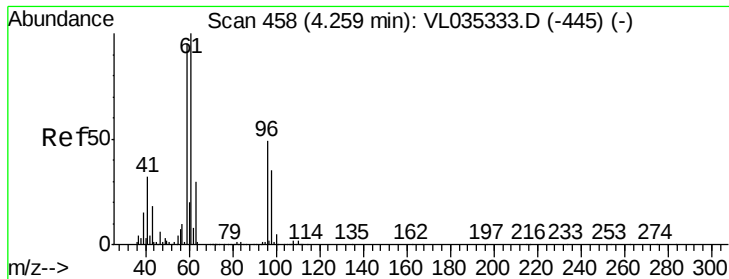
Tgt Ion: 39 Resp: 47589

Ion Ratio Lower Upper

39 100

54 0.0 64.4 96.6#



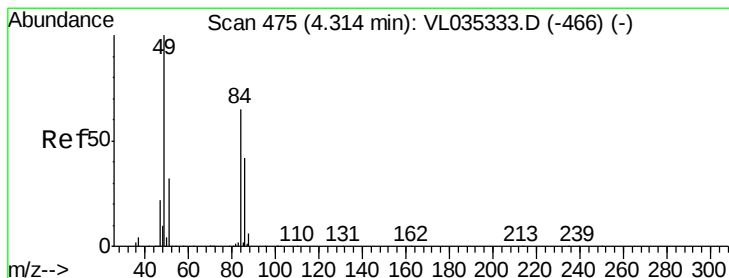
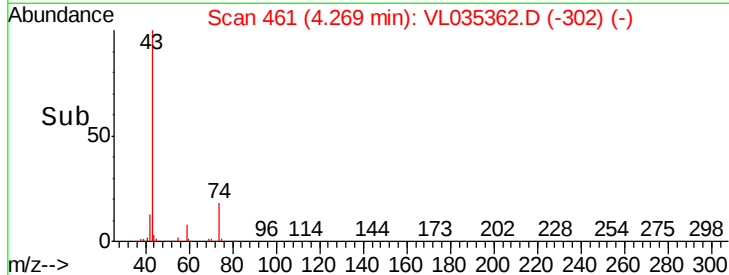
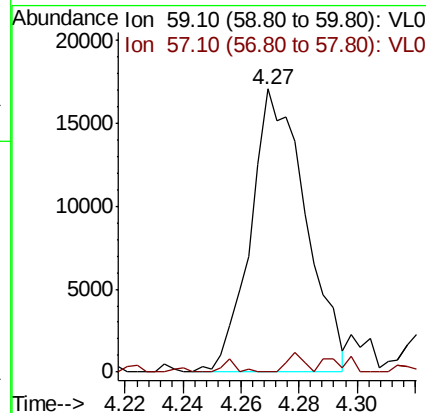
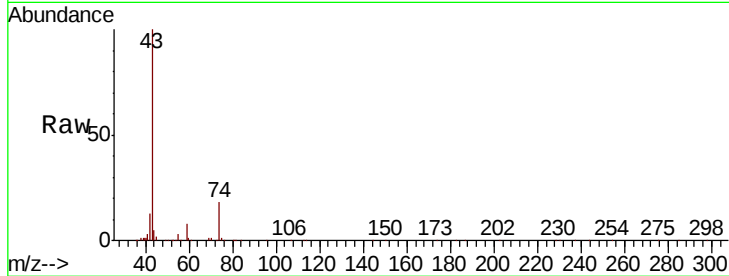


#17

tert-Butyl alcohol
Concen: 0.120 ppbv
RT: 4.27 min Scan# 461
Delta R.T. 0.01 min
Lab File: VL035362.D
Acq: 6 Aug 2020 23:08

Instrument :
MSVOA_L
ClientSampleId :

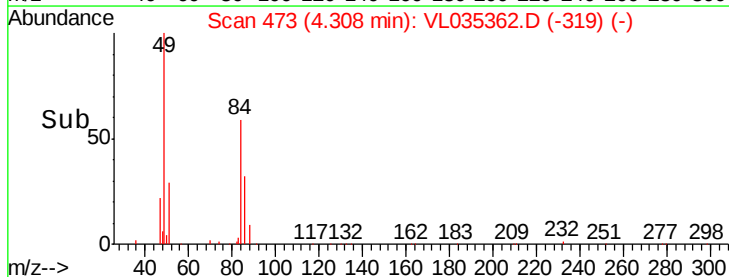
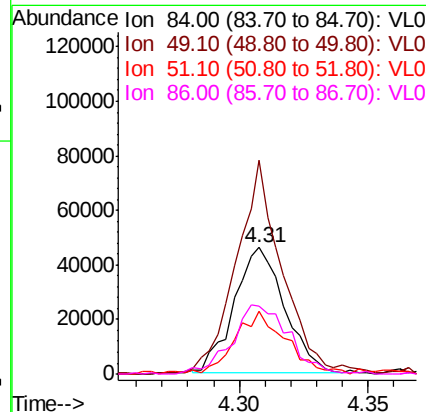
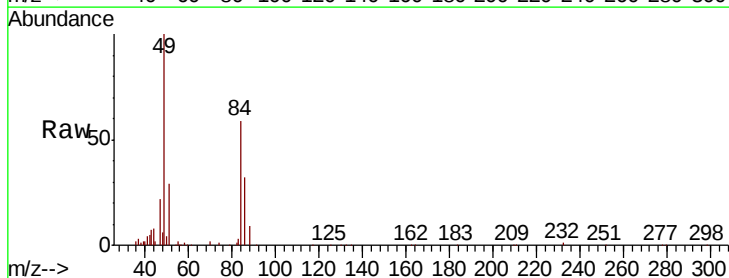
Tot Ion: 59 Resp: 22427
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#

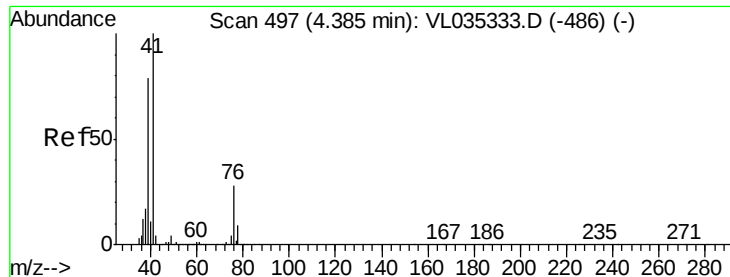


#20

Methylene Chloride
Concen: 0.752 ppbv
RT: 4.31 min Scan# 473
Delta R.T. -0.01 min
Lab File: VL035362.D
Acq: 6 Aug 2020 23:08

Tgt Ion: 84 Resp: 62147
Ion Ratio Lower Upper
84 100
49 167.7 122.8 184.2
51 47.6 40.1 60.1
86 53.1 51.7 77.5





#21

Allvl Chloride

Concen: 0.075 ppbv

RT: 4.37 min Scan# 493

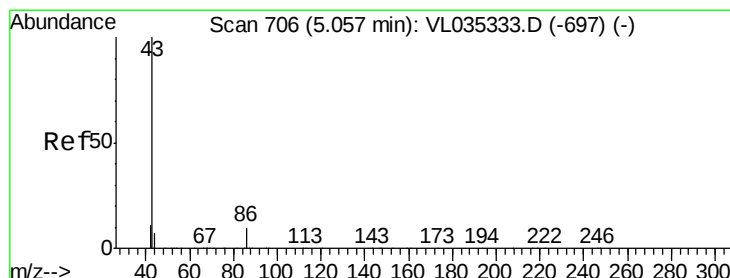
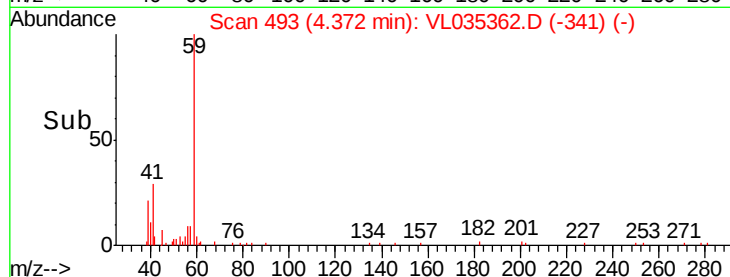
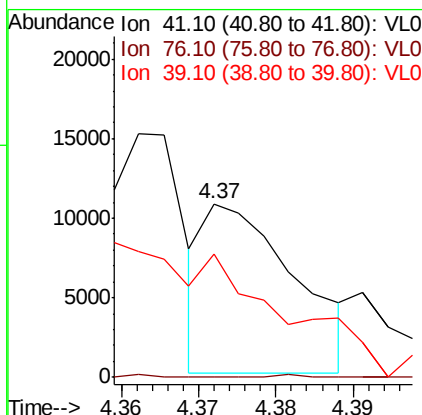
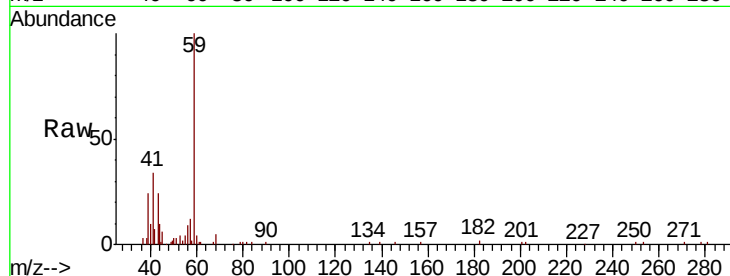
Delta R.T. -0.01 min

Lab File: VL035362.D

Acq: 6 Aug 2020 23:08

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	41	Resp:	8694
Ion	Ratio	Lower	Upper
41	100		
76	0.0	23.8	35.6#
39	0.0	65.0	97.6#



#23

Vinyl Acetate

Concen: 0.110 ppbv

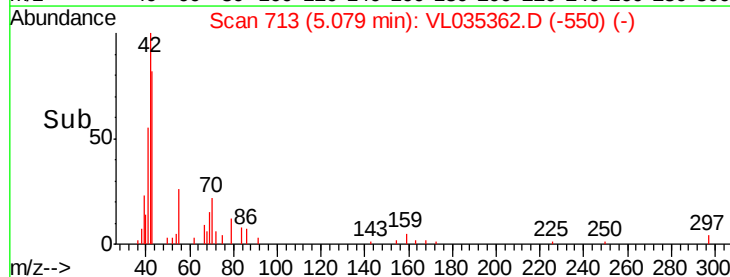
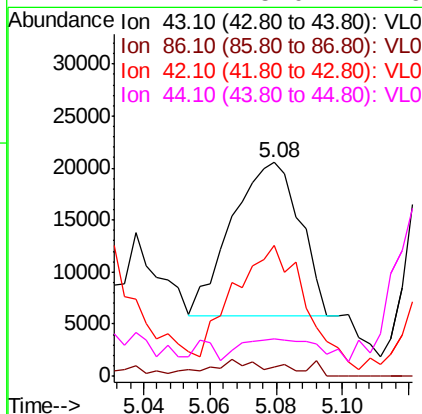
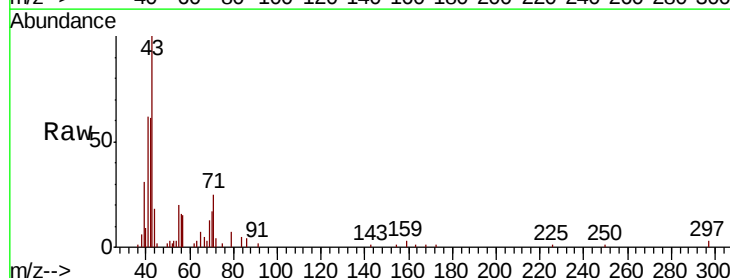
RT: 5.08 min Scan# 713

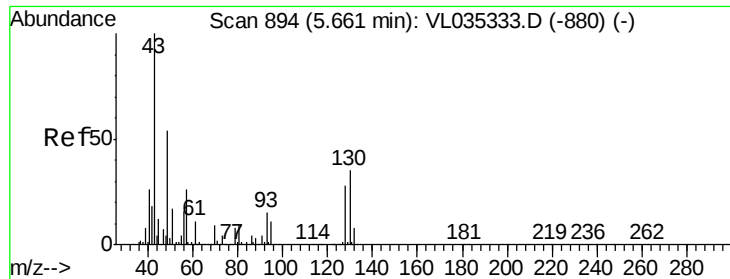
Delta R.T. 0.02 min

Lab File: VL035362.D

Acq: 6 Aug 2020 23:08

Tgt Ion:	43	Resp:	21294
Ion	Ratio	Lower	Upper
43	100		
86	6.0	6.9	10.3#
42	69.0	8.8	13.2#
44	11.7	5.0	7.6#





#25

Ethyl Acetate

Concen: 0.189 ppbv

RT: 5.66 min Scan# 894

Delta R.T. 0.00 min

Lab File: VL035362.D

Acq: 6 Aug 2020 23:08

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 58383

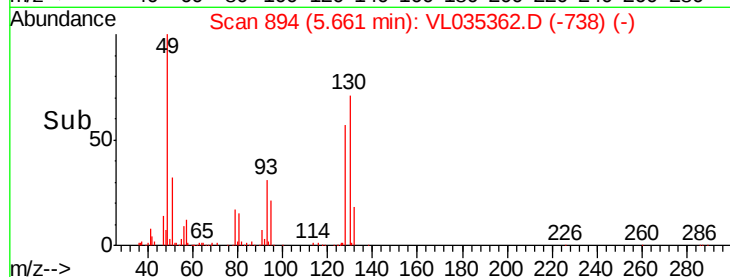
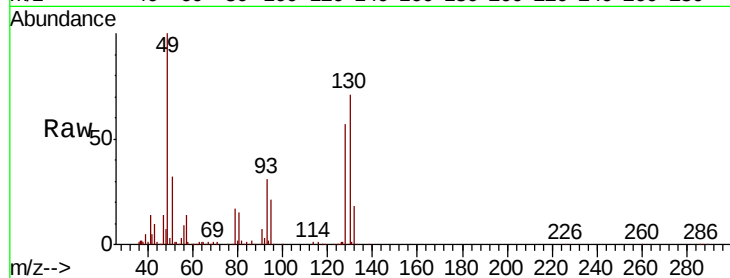
Ion Ratio Lower Upper

43 100

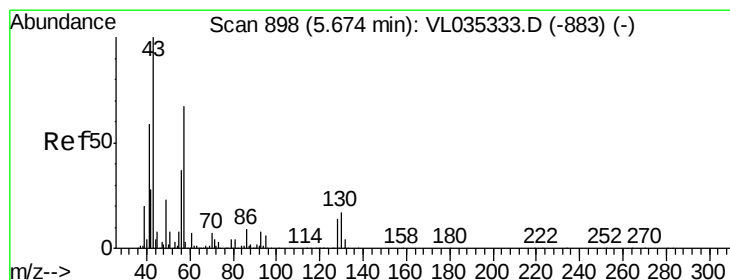
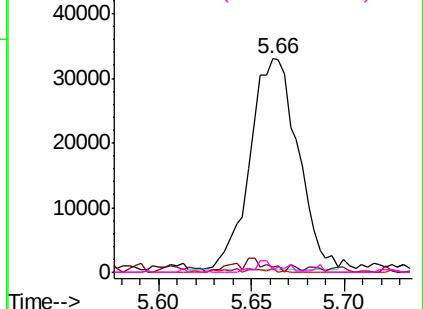
45 4.2 8.5 12.7#

61 1.5 8.1 12.1#

70 2.8 6.5 9.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.567 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL035362.D

Acq: 6 Aug 2020 23:08

Tgt Ion: 57 Resp: 75754

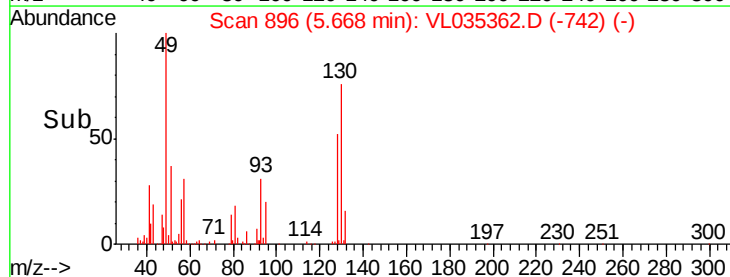
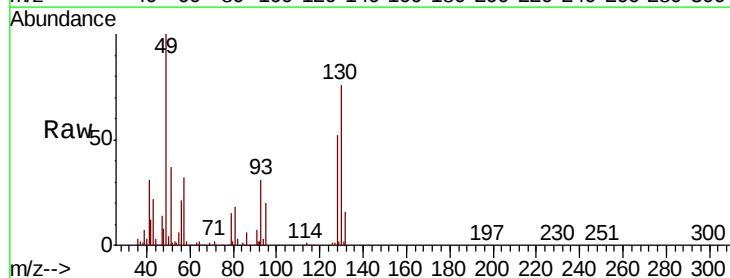
Ion Ratio Lower Upper

57 100

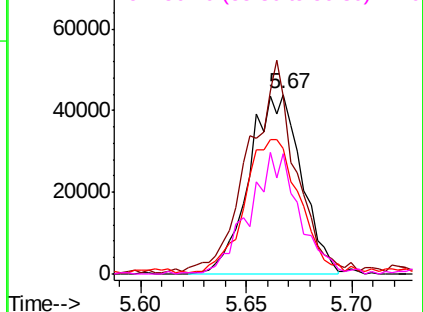
41 110.8 75.2 112.8

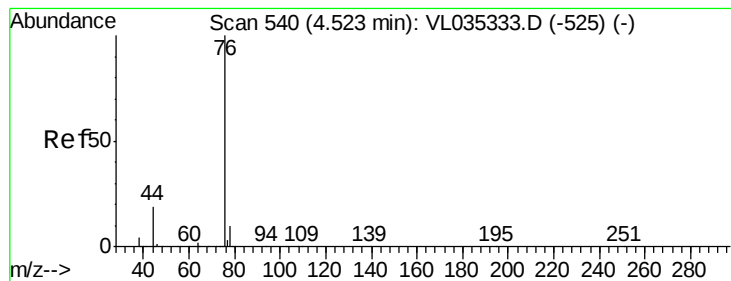
43 80.3 180.6 270.8#

56 65.0 43.0 64.6#



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





#27

Carbon Disulfide

Concen: 0.194 ppbv

RT: 4.51 min Scan# 537

Delta R.T. -0.01 min

Lab File: VL035362.D

Acq: 6 Aug 2020 23:08

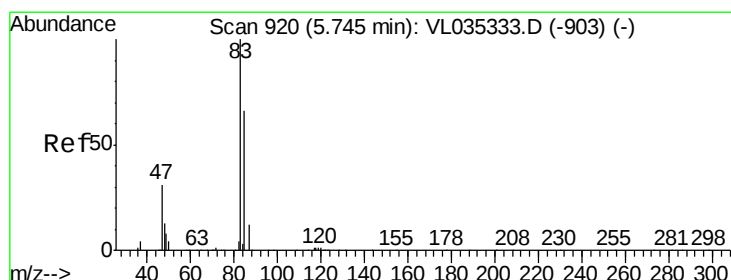
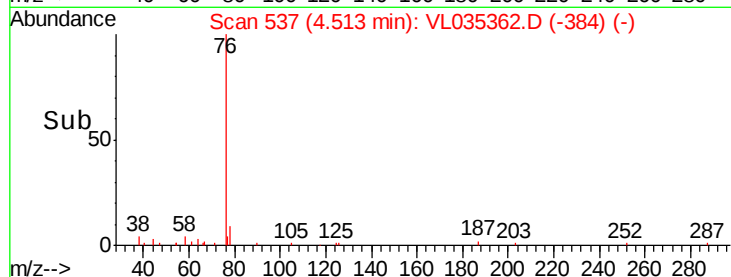
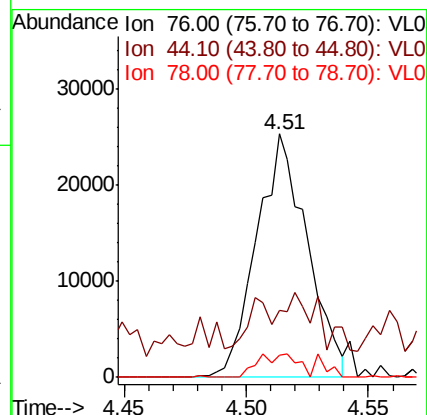
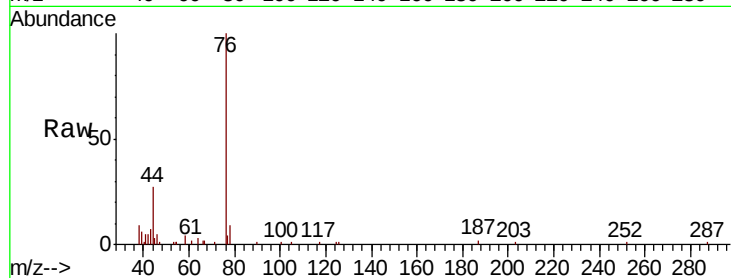
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 76 Resp: 36349

Ion	Ratio	Lower	Upper
76	100		
44	24.8	15.4	23.2#
78	9.8	7.7	11.5



#29

Chloroform

Concen: 0.256 ppbv

RT: 5.74 min Scan# 917

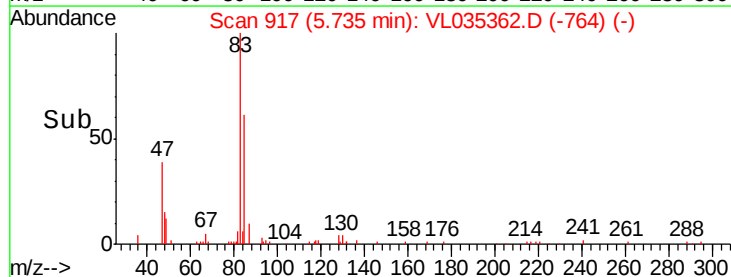
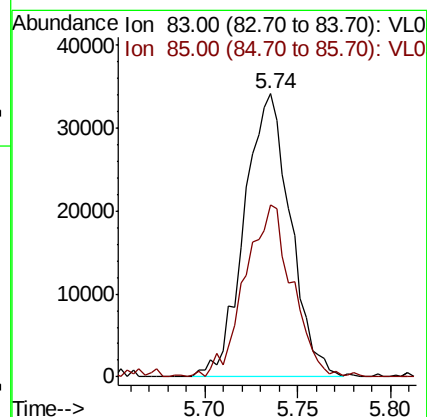
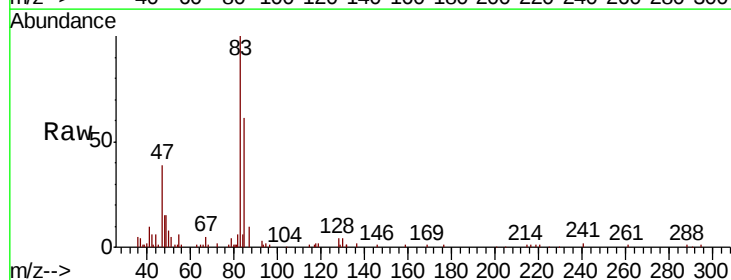
Delta R.T. -0.01 min

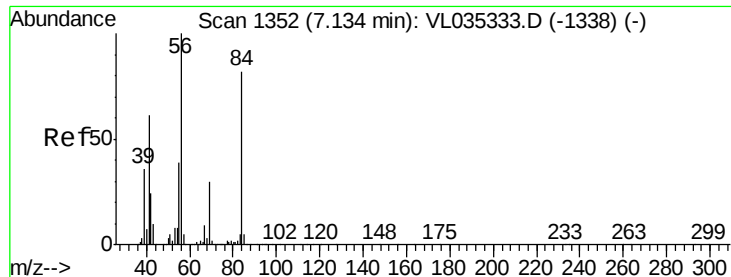
Lab File: VL035362.D

Acq: 6 Aug 2020 23:08

Tgt Ion: 83 Resp: 58955

Ion	Ratio	Lower	Upper
83	100		
85	60.5	52.9	79.3

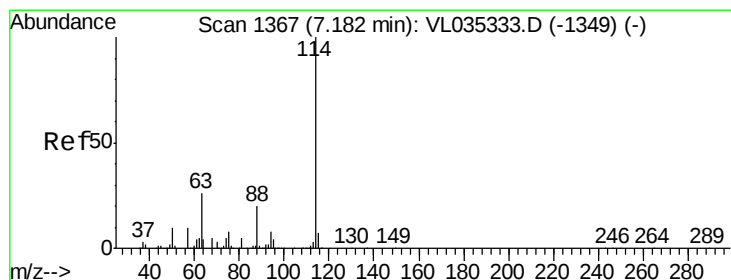
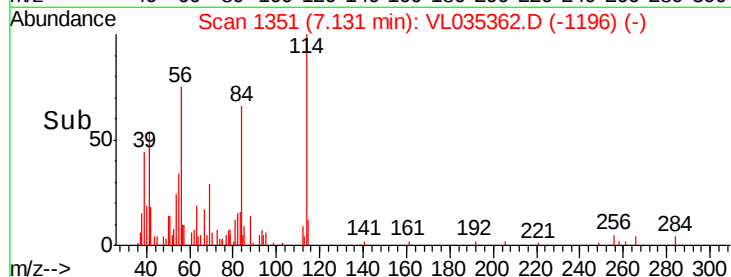
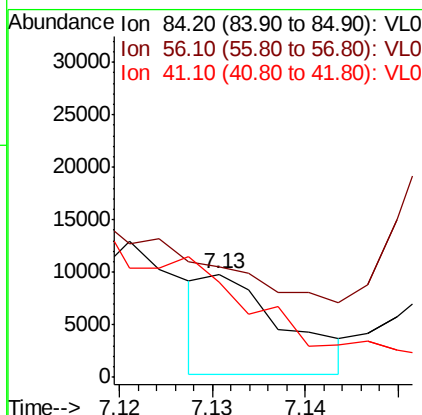
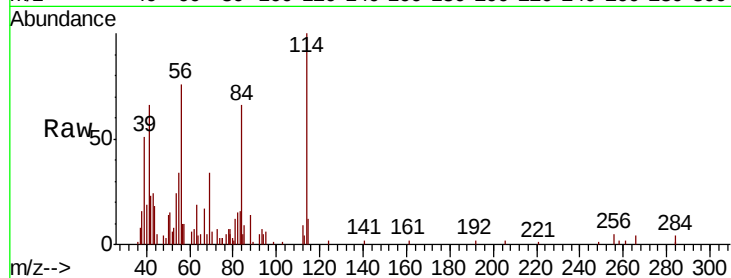




#30
Cyclohexane
Concen: 0.056 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.00 min
Lab File: VL035362.D
Acq: 6 Aug 2020 23:08

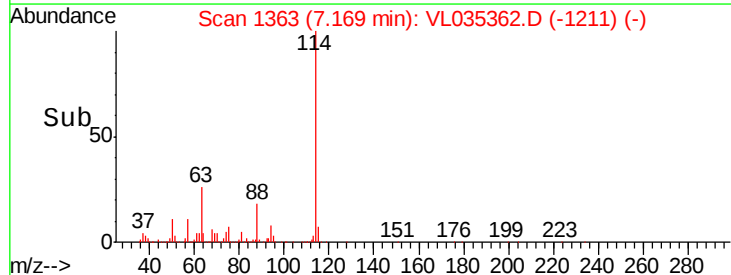
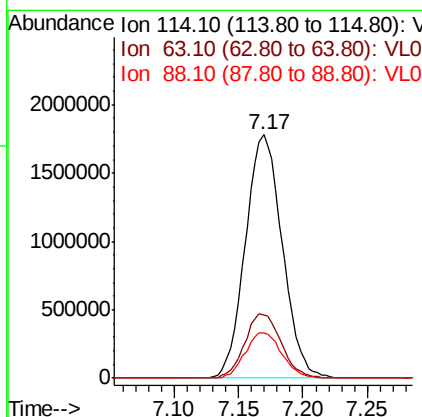
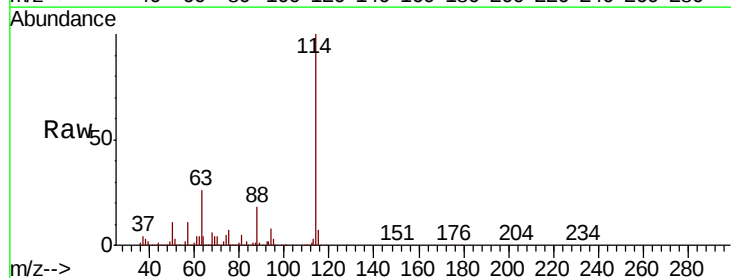
Instrument :
MSVOA_L
ClientSampleId :

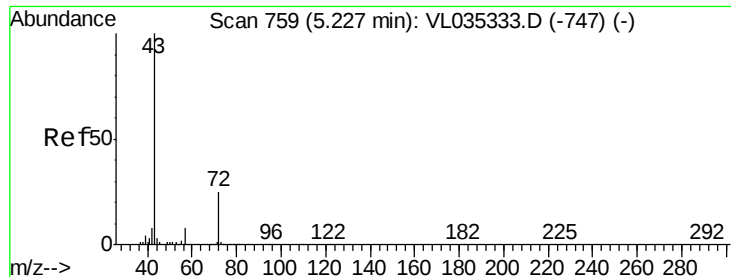
Tot Ion: 84 Resp: 5632
Ion Ratio Lower Upper
84 100
56 0.0 104.7 157.1#
41 0.0 64.2 96.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VL035362.D
Acq: 6 Aug 2020 23:08

Tgt Ion: 114 Resp: 3552846
Ion Ratio Lower Upper
114 100
63 26.1 21.3 31.9
88 18.6 15.3 22.9

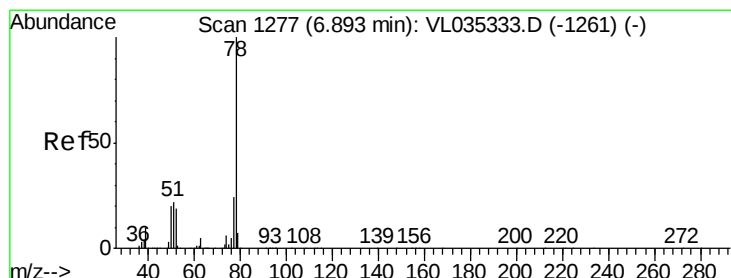
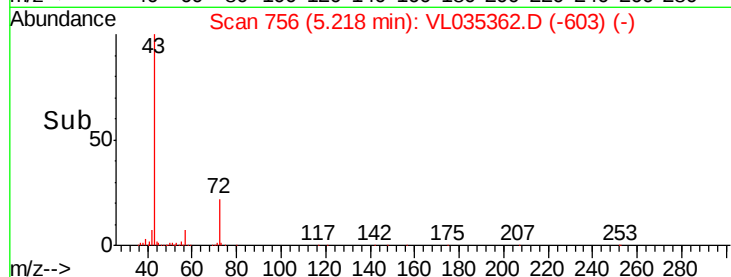
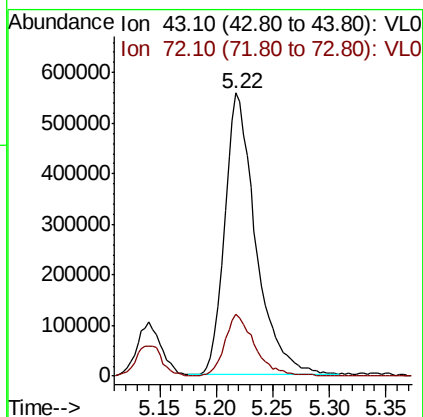
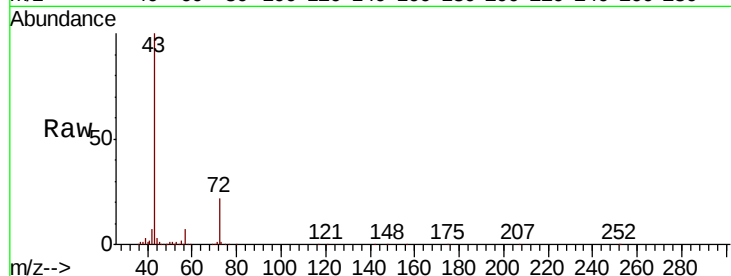




#34
2-Butanone
Concen: 6.096 ppbv
RT: 5.22 min Scan# 756
Delta R.T. -0.01 min
Lab File: VL035362.D
Acq: 6 Aug 2020 23:08

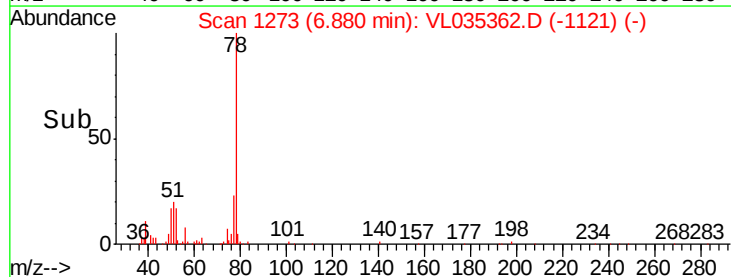
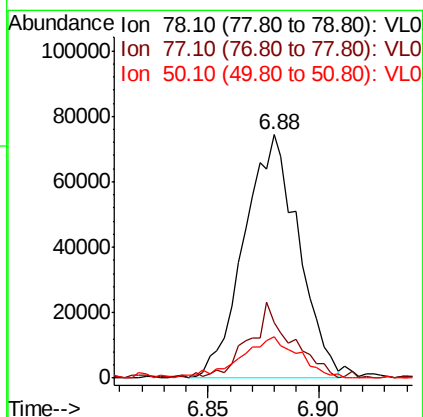
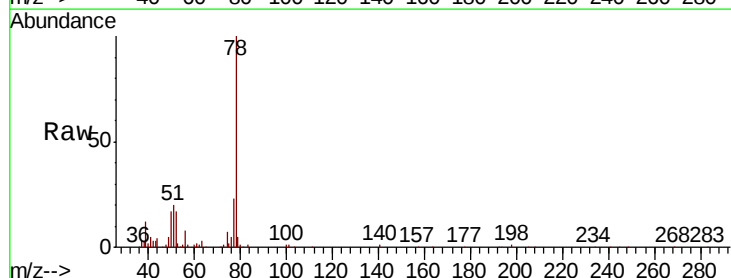
Instrument :
MSVOA_L
ClientSampleId :

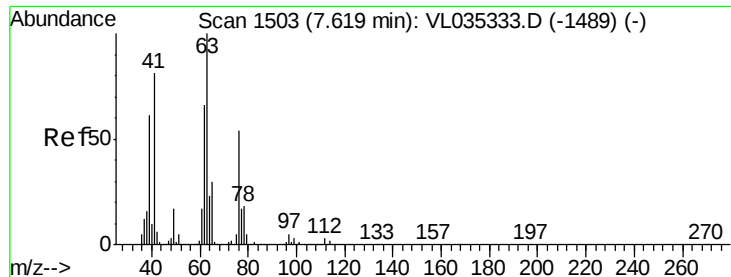
Tot Ion: 43 Resp: 1066457
Ion Ratio Lower Upper
43 100
72 21.2 18.9 28.3



#36
Benzene
Concen: 0.527 ppbv
RT: 6.88 min Scan# 1273
Delta R.T. -0.01 min
Lab File: VL035362.D
Acq: 6 Aug 2020 23:08

Tgt Ion: 78 Resp: 126346
Ion Ratio Lower Upper
78 100
77 22.8 19.3 28.9
50 15.8 16.3 24.5#

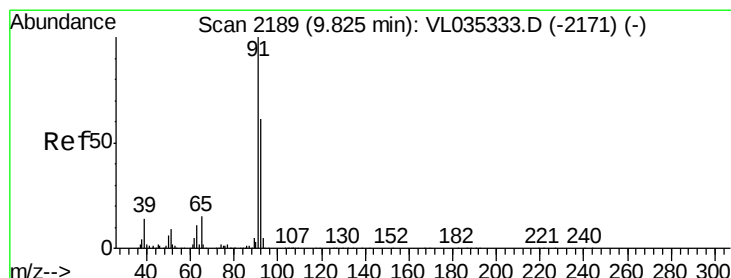
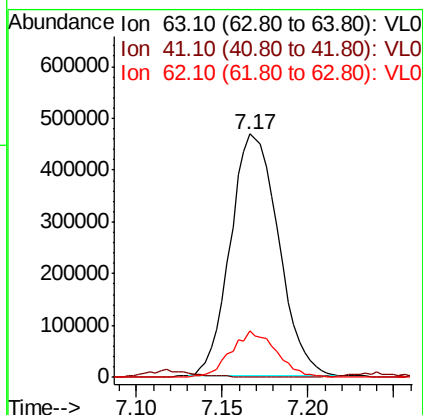
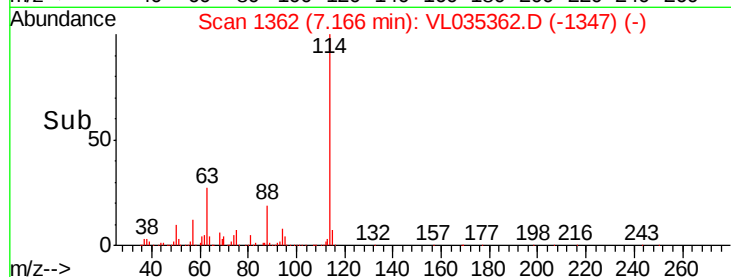
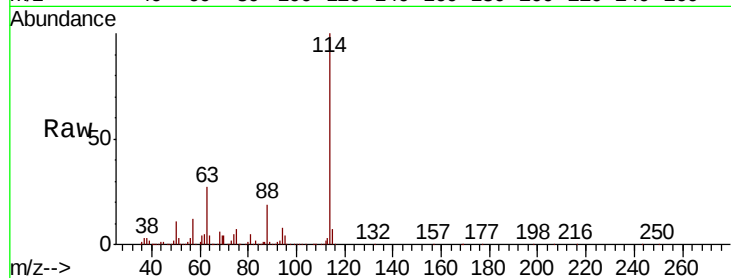




#39
 1,2-Dichloropropane
 Concen: 9.340 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.45 min
 Lab File: VL035362.D
 Acq: 6 Aug 2020 23:08

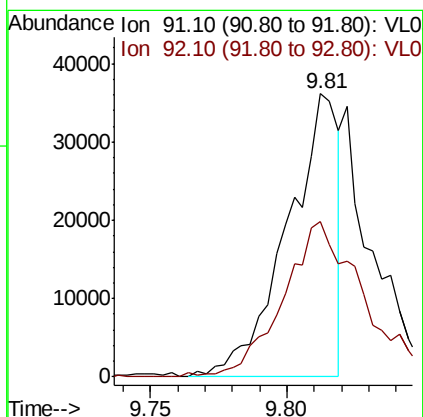
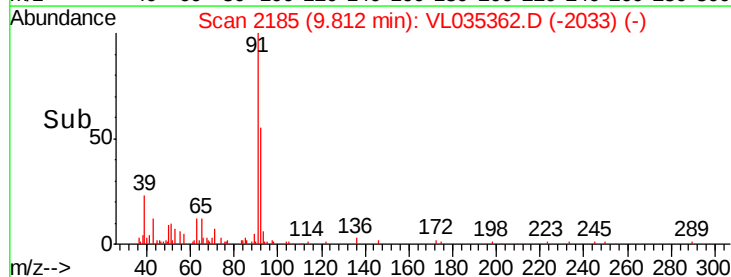
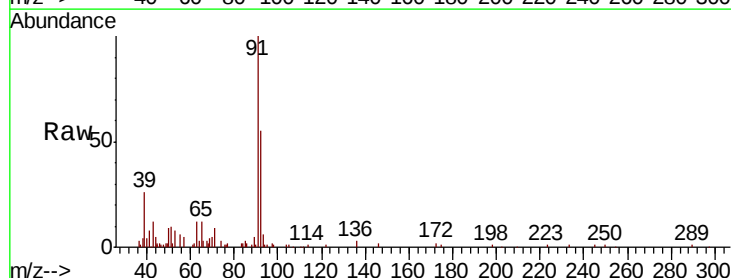
Instrument :
 MSVOA_L
 ClientSampleId :

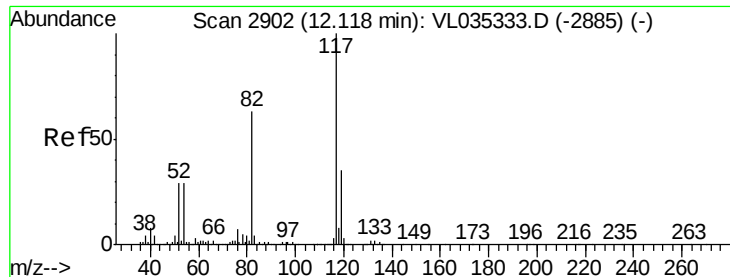
Tot Ion: 63 Resp: 907162
 Ion Ratio Lower Upper
 63 100
 41 0.0 64.4 96.6#
 62 18.8 52.6 78.8#



#53
 Toluene
 Concen: 0.180 ppbv
 RT: 9.81 min Scan# 2185
 Delta R.T. -0.01 min
 Lab File: VL035362.D
 Acq: 6 Aug 2020 23:08

Tgt Ion: 91 Resp: 46888
 Ion Ratio Lower Upper
 91 100
 92 89.2 48.5 72.7#

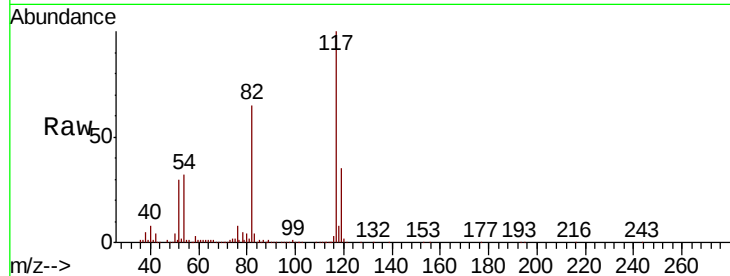




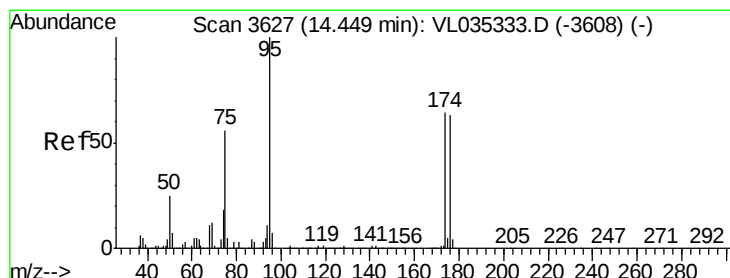
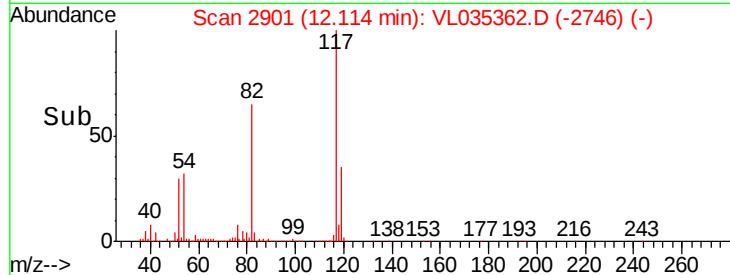
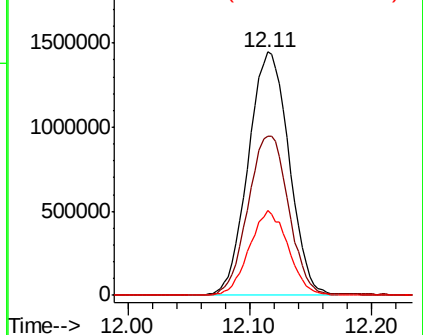
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. -0.00 min
Lab File: VL035362.D
Acq: 6 Aug 2020 23:08

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3341516
Ion Ratio Lower Upper
117 100
82 65.4 51.0 76.4
119 33.3 24.7 37.1

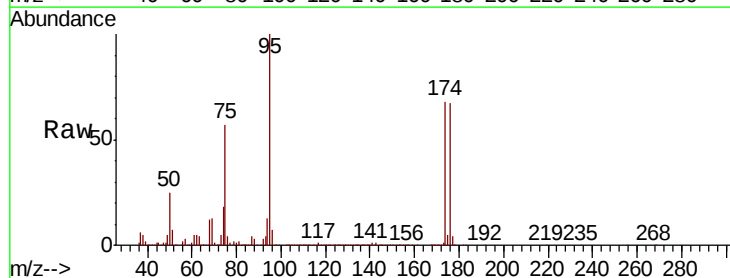


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.722 ppbv
RT: 14.45 min Scan# 3626
Delta R.T. -0.00 min
Lab File: VL035362.D
Acq: 6 Aug 2020 23:08

Tgt Ion: 95 Resp: 2708959
Ion Ratio Lower Upper
95 100
174 69.6 53.5 80.3
175 5.1 4.2 6.2



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

