

Data File : VL034938.D
Acq On : 6 May 2020 11:26
Operator : SY/AP
Sample : VSTDIC001
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Quant Time: May 06 12:43:02 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 12:36:21 2020
QLast Update : Wed May 06 12:36:21 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1198447	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2756981	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2586167	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2102134	10.42	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.01	85	194713	1.186	ppbv	91
3) Chlorodifluoromethane	2.95	51	150519	1.124	ppbv	100
4) Chloromethane	3.11	50	85675	1.132	ppbv	98
5) Vinyl Chloride	3.22	62	78871	1.084	ppbv	96
6) Bromomethane	3.44	94	50726	1.198	ppbv	93
7) Chloroethane	3.53	64	30734	1.170	ppbv #	86
8) Dichlorotetrafluoroethane	3.15	85	201563	1.183	ppbv	98
9) Propene	2.97	41	63553	0.994	ppbv	100
10) Heptane	8.14	43	154496	0.982	ppbv	98
11) Trichlorofluoromethane	3.92	101	196632	1.126	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.47	101	135719	1.111	ppbv	99
13) Ethanol	3.58	45	26012	1.339	ppbv	98
14) Bromoethene	3.71	108	55054	1.043	ppbv #	97
15) Acetone	3.83	43	183080	1.179	ppbv	94
16) 1,3-Butadiene	3.29	39	67234	0.957	ppbv	98
17) tert-Butyl alcohol	4.28	59	157551	1.053	ppbv	99
18) 1,1-Dichloroethene	4.27	96	57510	1.063	ppbv #	79
19) Isopropyl Alcohol	3.94	45	119340	1.217	ppbv #	95
20) Methylene Chloride	4.32	84	58122	1.183	ppbv #	90
21) Allyl Chloride	4.39	41	91525	0.917	ppbv	94
22) trans-1,2-Dichloroethene	4.88	96	24506	0.446	ppbv	85
23) Vinyl Acetate	5.06	43	208105	0.907	ppbv	97
24) 1,1-Dichloroethane	5.00	63	65100	0.423	ppbv	98
25) Ethyl Acetate	5.68	43	284097	1.027	ppbv	99
26) Hexane	5.68	57	126392	1.061	ppbv	97
27) Carbon Disulfide	4.53	76	143036	1.058	ppbv #	92
28) Methyl tert-Butyl Ether	5.02	73	186886	0.943	ppbv	99
29) Chloroform	5.74	83	206611	1.136	ppbv #	83
30) Cyclohexane	7.14	84	48785	0.491	ppbv #	1
31) cis-1,2-Dichloroethene	5.54	61	113959	0.935	ppbv	93
32) 1,1,1-Trichloroethane	6.51	97	183871	1.038	ppbv	98
34) 2-Butanone	5.24	43	187839	1.025	ppbv	99
35) Carbon Tetrachloride	7.03	117	86643	0.505	ppbv	99
36) Benzene	6.90	78	243104	0.989	ppbv	96
37) 1,2-Dichloroethane	6.31	62	150979	1.090	ppbv	100
38) Trichloroethene	7.85	130	96624	1.035	ppbv #	80
39) 1,2-Dichloropropane	7.63	63	95727	0.983	ppbv	98
40) 1,4-Dioxane	7.84	88	1487	0.040	ppbv #	1
41) Tetrahydrofuran	6.06	42	92012	0.928	ppbv	98
42) Bromodichloromethane	7.80	83	202126	1.070	ppbv	92
43) Methyl Methacrylate	8.02	69	43937	0.424	ppbv #	1

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	444694	1.071	ppbv	98
45) t-1,3-Dichloropropene	9.30	75	88243	0.725	ppbv	96
46) cis-1,3-Dichloropropene	8.73	75	116023	0.803	ppbv	89
47) 1,1,2-Trichloroethane	9.50	97	105362	1.054	ppbv	95
48) Dibromochloromethane	10.33	129	90328	0.558	ppbv #	37
49) Bromoform	13.07	173	60771	0.421	ppbv #	16
50) 4-Methyl-2-Pentanone	8.76	43	254114	0.963	ppbv	98
51) 2-Hexanone	10.16	43	193101	0.901	ppbv #	94
52) Tetrachloroethene	11.26	164	40265	0.414	ppbv	93
53) Toluene	9.83	91	247108	0.871	ppbv	98
54) 1,2-Dibromoethane	10.64	107	149791	0.996	ppbv	92
56) 1,1,1,2-Tetrachloroethane	12.17	131	48128	0.414	ppbv #	8
57) Chlorobenzene	12.18	112	229217	1.133	ppbv #	92
58) Ethyl Benzene	12.74	91	343565	0.981	ppbv	95
59) m/p-Xylene	13.03	91	272603	0.929	ppbv #	79
60) o-Xylene	13.73	91	309904	1.082	ppbv	99
61) Styrene	13.57	104	178424	0.887	ppbv	98
62) Isopropylbenzene	14.71	105	466944	1.078	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.72	83	237757	1.222	ppbv	99
64) n-propylbenzene	15.60	120	114810	1.018	ppbv	83
65) tert-Butylbenzene	16.79	119	400125	1.057	ppbv	97
66) Benzyl Chloride	17.03	91	112984	0.716	ppbv	99
67) sec-Butylbenzene	17.34	105	597897	1.139	ppbv	96
69) p-Isopropyltoluene	17.70	119	458992	1.042	ppbv	99
70) n-Butylbenzene	18.60	91	496285	1.105	ppbv	97
71) 2-Chlorotoluene	15.50	91	340545	1.038	ppbv	99
72) 4-Ethyltoluene	15.89	105	172009	0.508	ppbv #	58
73) 1,3,5-Trimethylbenzene	16.04	105	334877	1.057	ppbv	100
74) 1,2,4-Trimethylbenzene	16.81	105	375941	1.152	ppbv	97
75) 1,3-Dichlorobenzene	17.05	146	215078	1.093	ppbv	98
76) 1,4-Dichlorobenzene	17.19	146	206914	1.054	ppbv	99
77) 1,2-Dichlorobenzene	17.86	146	207710	1.089	ppbv	100
78) Hexachloro-1,3-Butadiene	23.43	225	178664	1.122	ppbv	98
79) Naphthalene	22.27	128	120925	0.475	ppbv	95
80) Naphthalene,2-methyl-	25.03	142	17947	0.270	ppbv	99
81) 1,2,4-Trichlorobenzene	22.00	180	83952	0.519	ppbv #	21

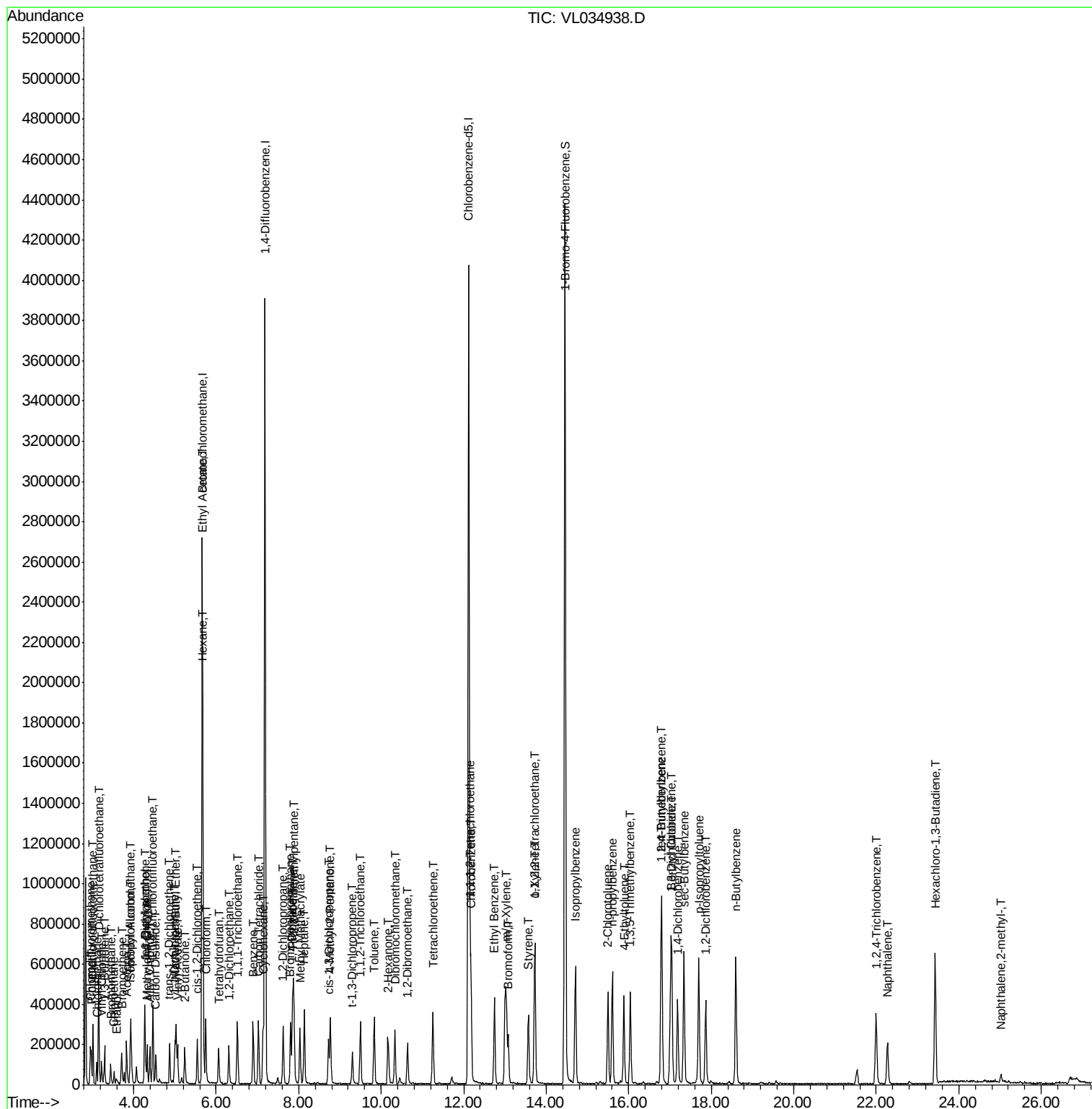
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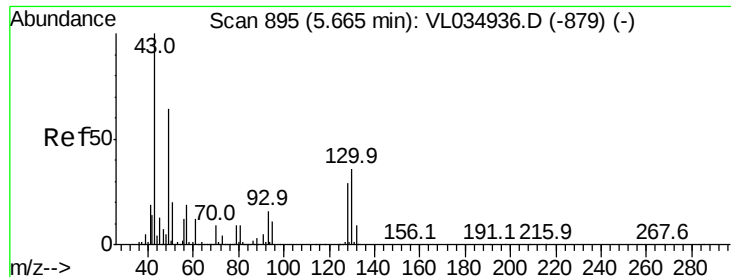
Data File : VL034938.D

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Acq On       : 6 May 2020 11:26
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ClientSampleId :
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL034938.D

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MSVOA_L

ClientSampleId :

VSTDIC001

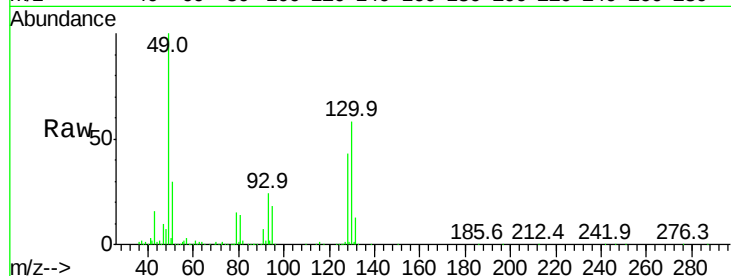
Tgt Ion: 49 Resp: 1198447

Ion Ratio Lower Upper

49 100

128 45.3 22.1 66.5

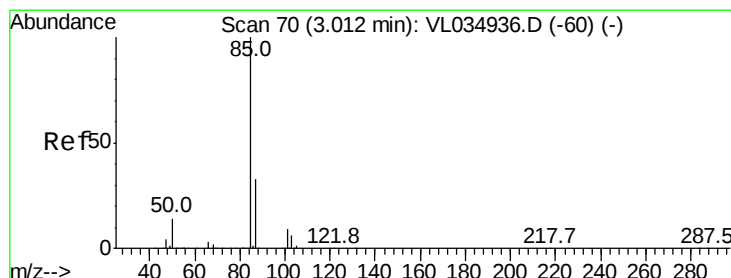
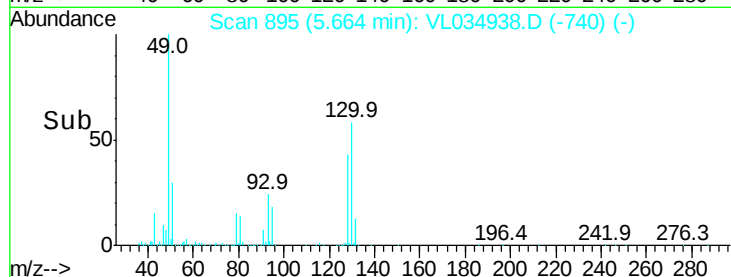
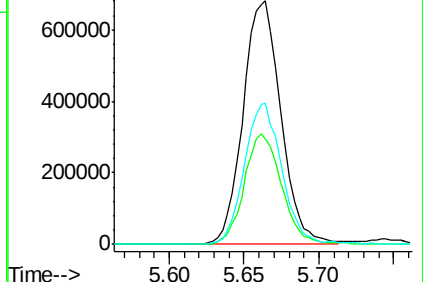
130 57.8 29.1 87.3



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: 1.186 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL034938.D

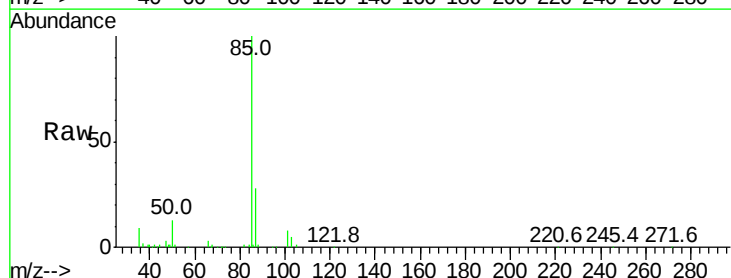
Acq: 6 May 2020 11:26

Tgt Ion: 85 Resp: 194713

Ion Ratio Lower Upper

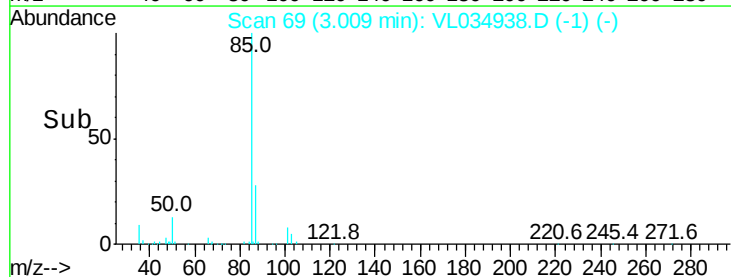
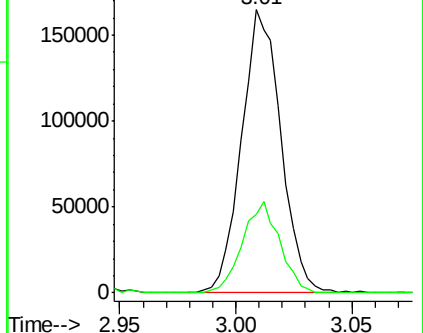
85 100

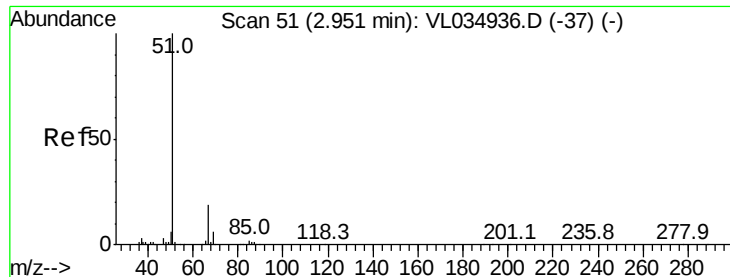
87 27.8 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

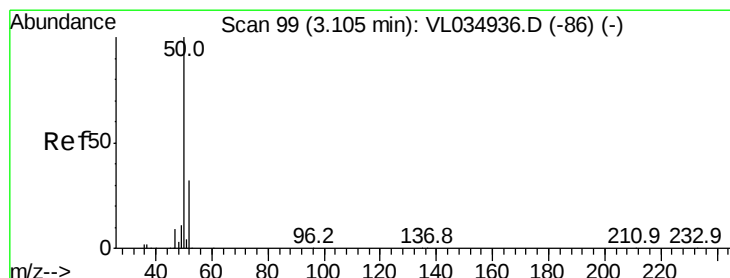
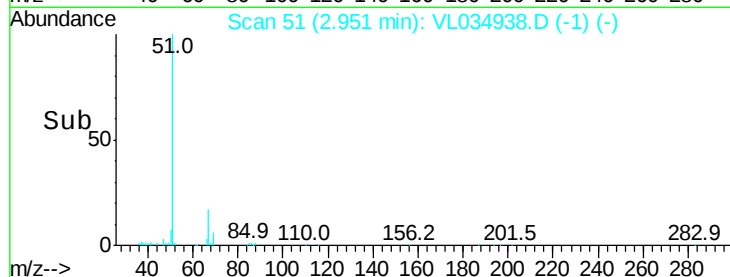
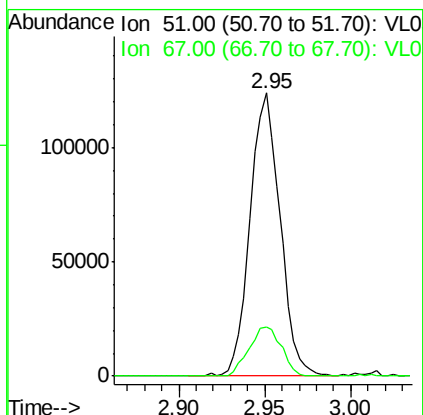
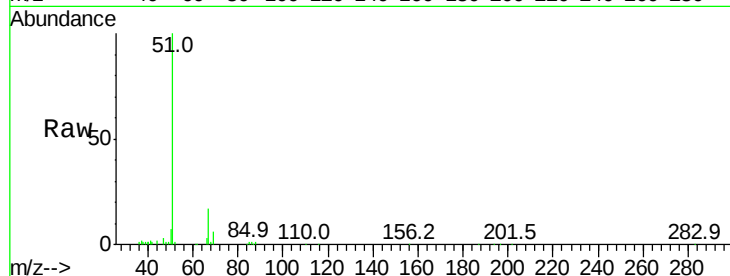




#3
Chlorodifluoromethane
Concen: 1.124 ppbv
RT: 2.95 min Scan# 51
Delta R.T. -0.00 min
Lab File: VL034938.D
Acq: 6 May 2020 11:26

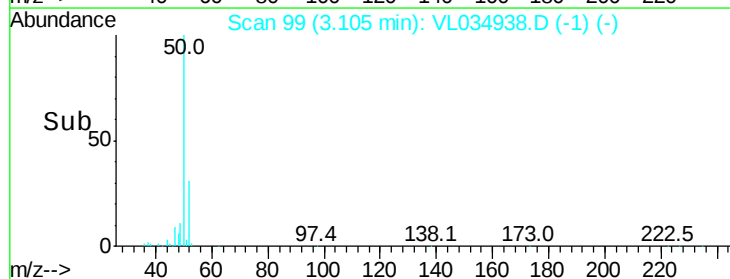
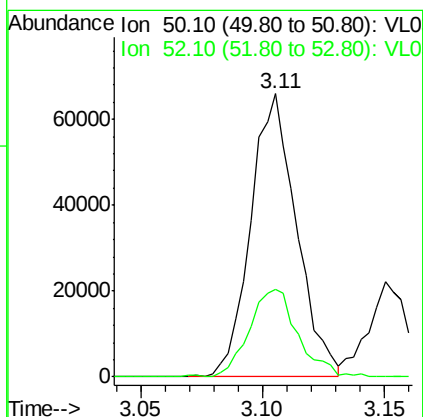
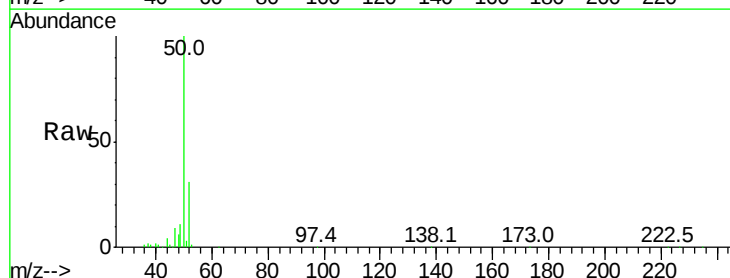
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

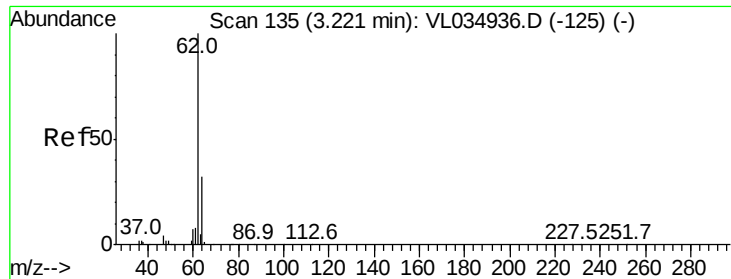
Tgt Ion: 51 Resp: 150519
Ion Ratio Lower Upper
51 100
67 18.7 15.0 22.6



#4
Chloromethane
Concen: 1.132 ppbv
RT: 3.11 min Scan# 99
Delta R.T. -0.00 min
Lab File: VL034938.D
Acq: 6 May 2020 11:26

Tgt Ion: 50 Resp: 85675
Ion Ratio Lower Upper
50 100
52 30.9 25.4 38.2





#5

Vinyl Chloride

Concen: 1.084 ppbv

RT: 3.22 min Scan# 136

Delta R.T. 0.00 min

Lab File: VL034938.D

Acq: 6 May 2020 11:26

Instrument :

MSVOA_L

ClientSampleId :

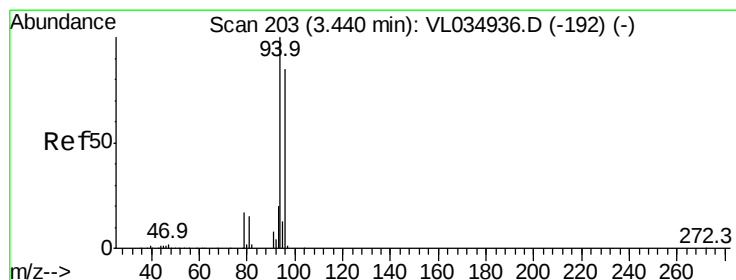
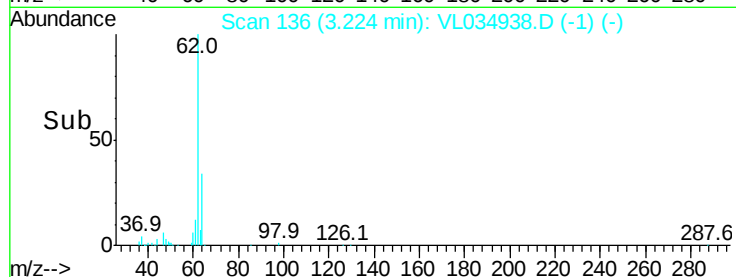
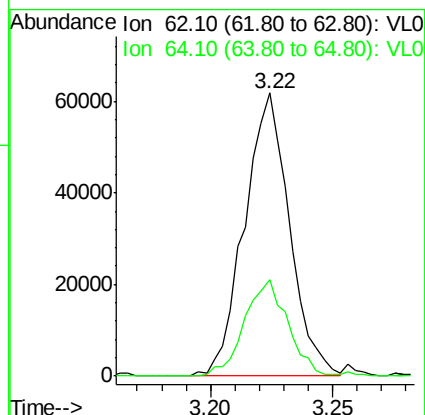
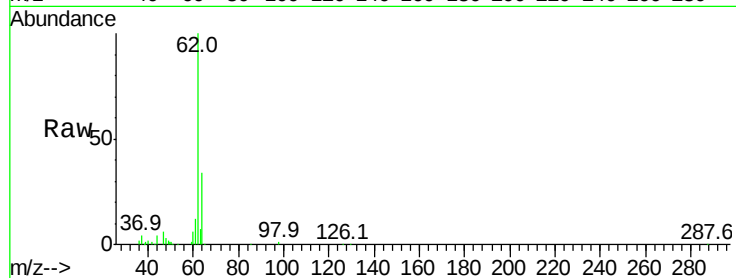
VSTDIC001

Tgt Ion: 62 Resp: 78871

Ion Ratio Lower Upper

62 100

64 34.2 25.7 38.5



#6

Bromomethane

Concen: 1.198 ppbv

RT: 3.44 min Scan# 204

Delta R.T. 0.00 min

Lab File: VL034938.D

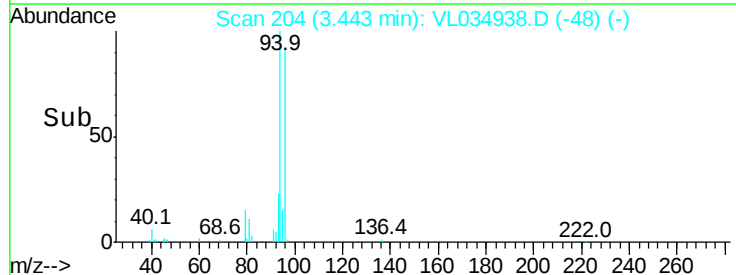
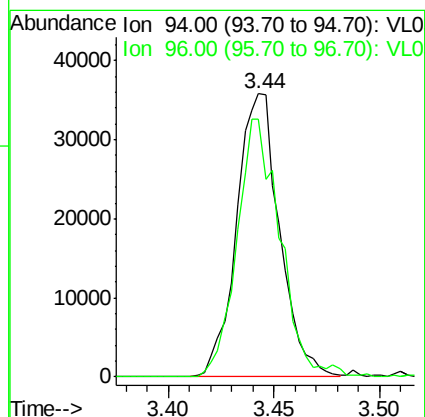
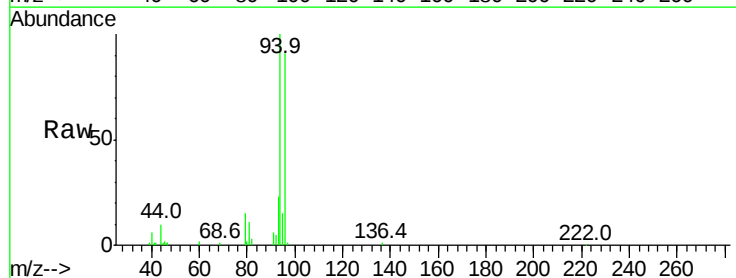
Acq: 6 May 2020 11:26

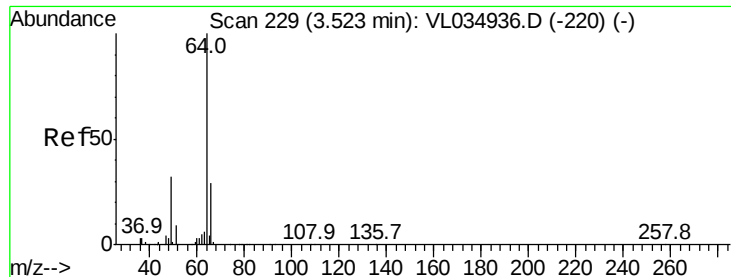
Tgt Ion: 94 Resp: 50726

Ion Ratio Lower Upper

94 100

96 91.2 67.9 101.9





#7

Chloroethane

Concen: 1.170 ppbv

RT: 3.53 min Scan# 230

Delta R.T. 0.00 min

Lab File: VL034938.D

Acq: 6 May 2020 11:26

Instrument :

MSVOA_L

ClientSampleId :

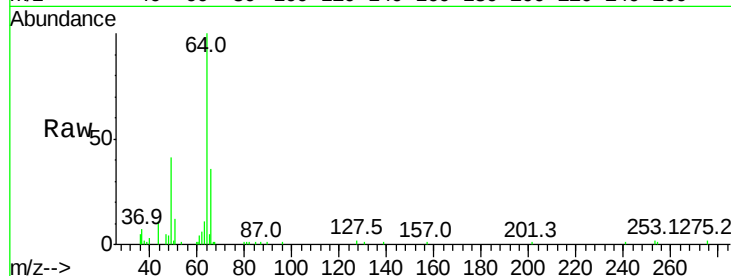
VSTDIC001

Tgt Ion: 64 Resp: 30734

Ion Ratio Lower Upper

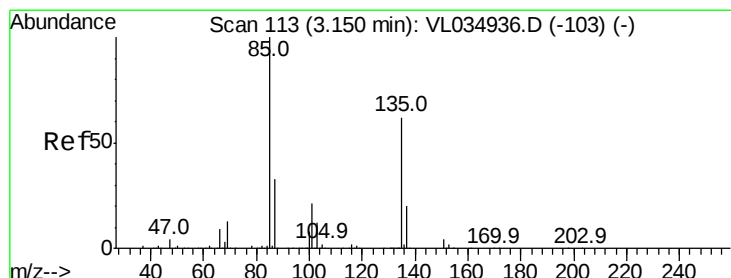
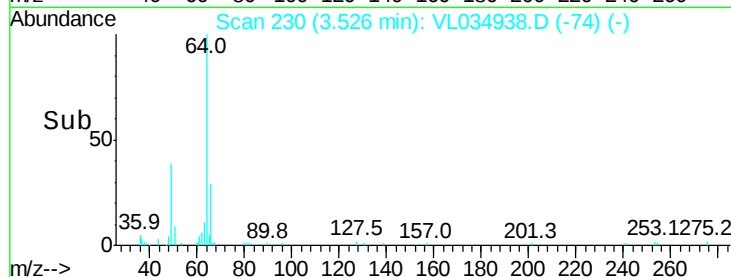
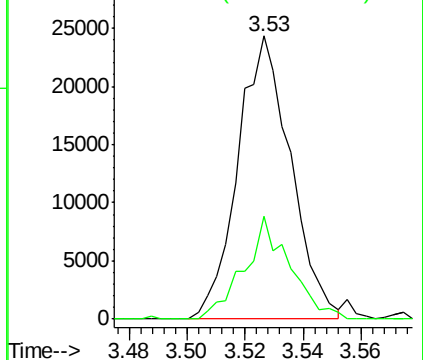
64 100

66 36.5 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: 1.183 ppbv

RT: 3.15 min Scan# 113

Delta R.T. -0.00 min

Lab File: VL034938.D

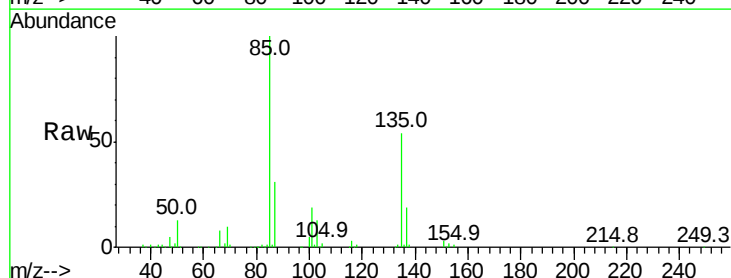
Acq: 6 May 2020 11:26

Tgt Ion: 85 Resp: 201563

Ion Ratio Lower Upper

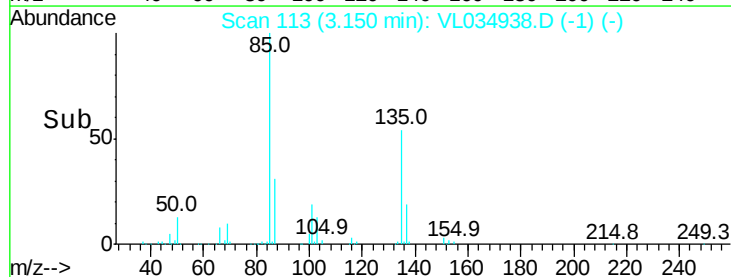
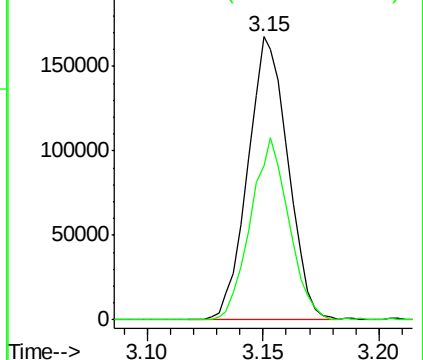
85 100

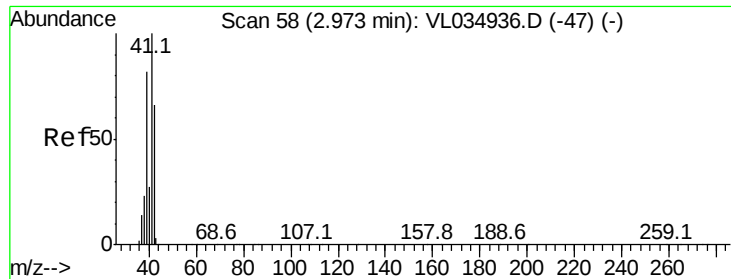
135 61.8 50.9 76.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0





#9

Propene

Concen: 0.994 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

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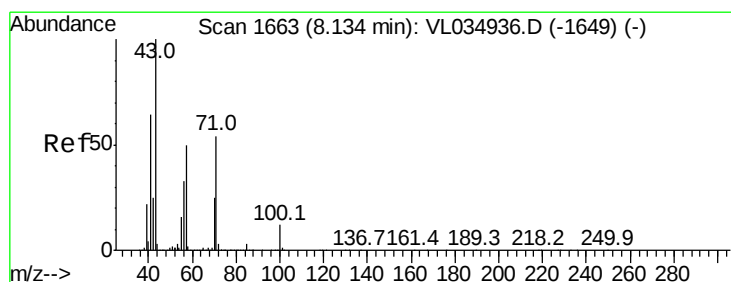
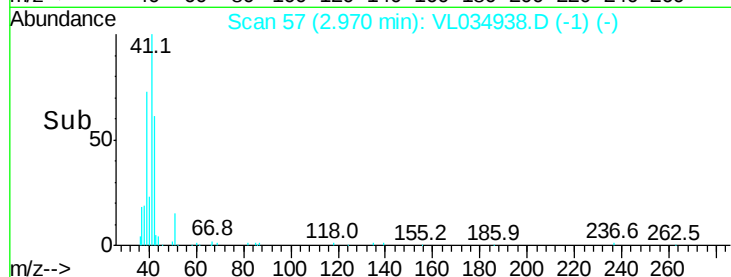
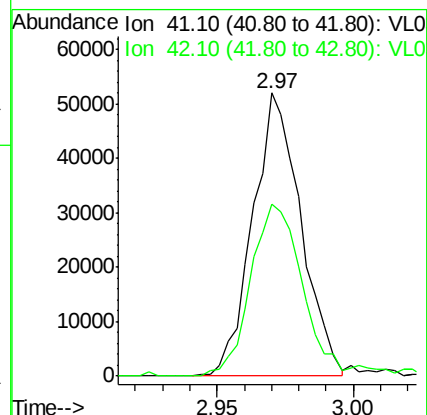
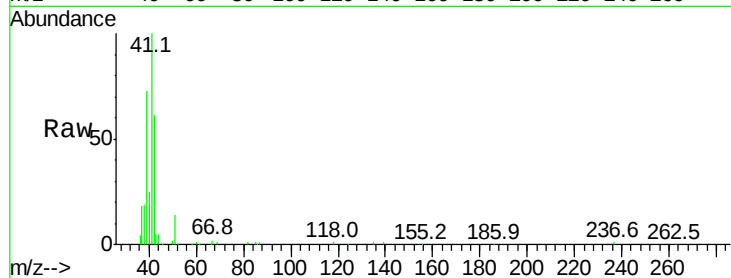
VSTDIC001

Tgt Ion: 41 Resp: 63553

Ion Ratio Lower Upper

41 100

42 68.1 54.5 81.7



#10

Heptane

Concen: 0.982 ppbv

RT: 8.14 min Scan# 1664

Delta R.T. 0.00 min

Lab File: VL034938.D

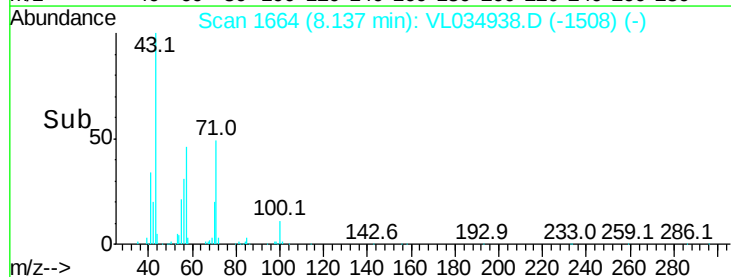
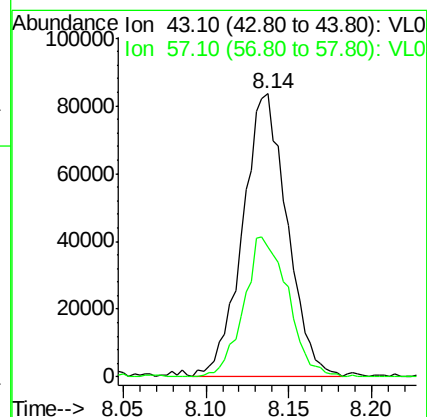
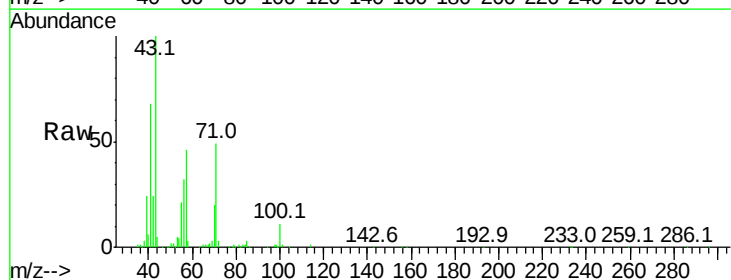
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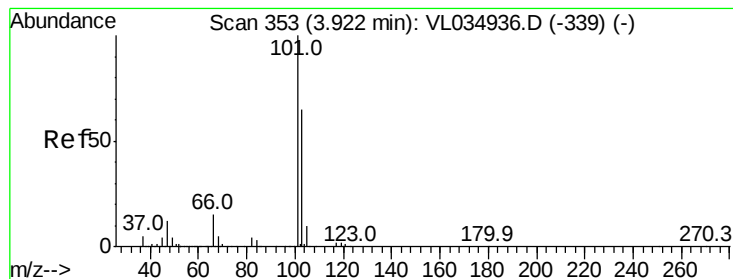
Tgt Ion: 43 Resp: 154496

Ion Ratio Lower Upper

43 100

57 49.7 41.1 61.7





#11

Trichlorofluoromethane

Concen: 1.126 ppbv

RT: 3.92 min Scan# 354

Delta R.T. 0.00 min

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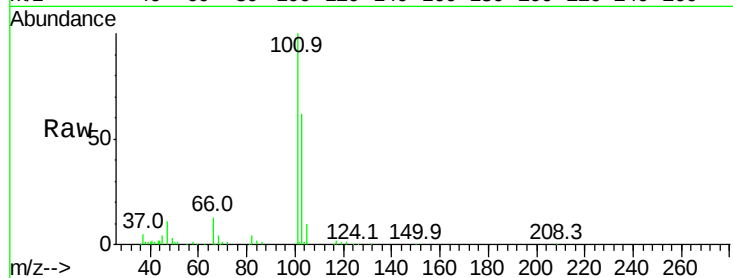
VSTDIC001

Tgt Ion:101 Resp: 196632

Ion Ratio Lower Upper

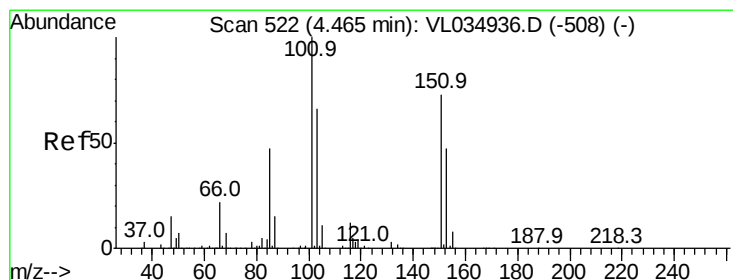
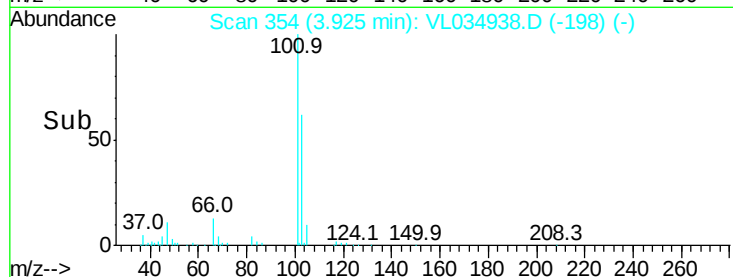
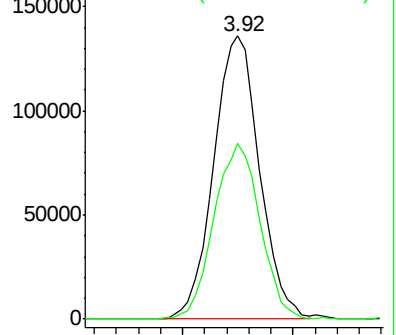
101 100

103 62.2 51.9 77.9



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: 1.111 ppbv

RT: 4.47 min Scan# 523

Delta R.T. 0.00 min

Lab File: VL034938.D

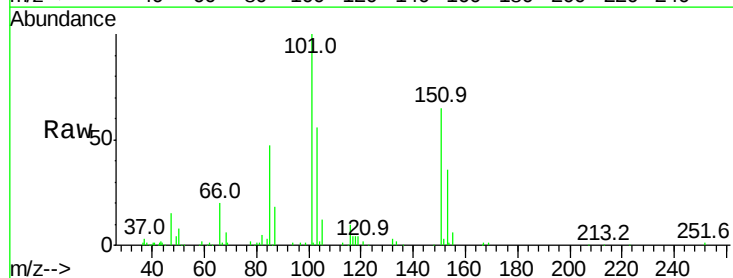
Acq: 6 May 2020 11:26

Tgt Ion:101 Resp: 135719

Ion Ratio Lower Upper

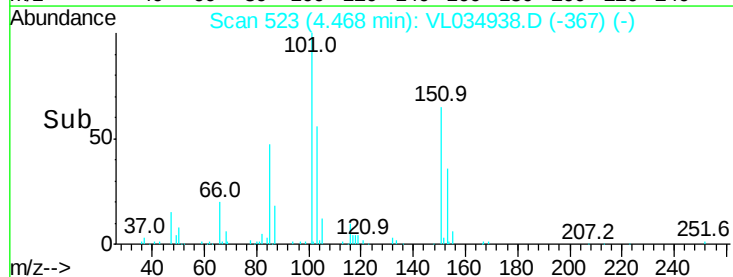
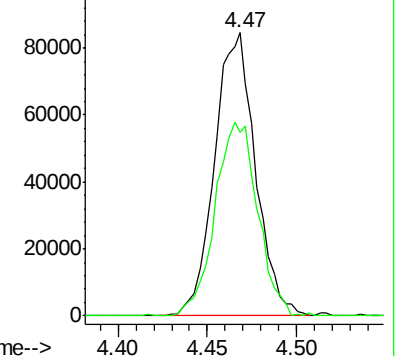
101 100

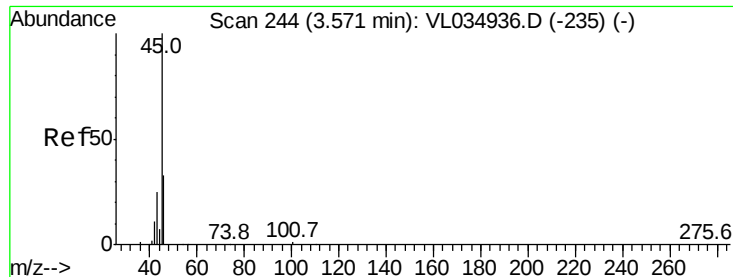
151 71.3 57.6 86.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 1.339 ppbv

RT: 3.58 min Scan# 247

Delta R.T. 0.01 min

Lab File: VL034938.D

Acq: 6 May 2020 11:26

Instrument :

MSVOA_L

ClientSampleId :

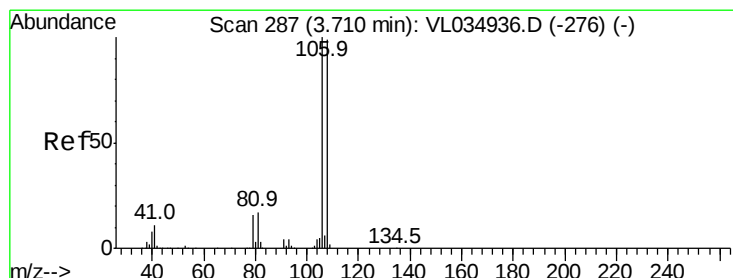
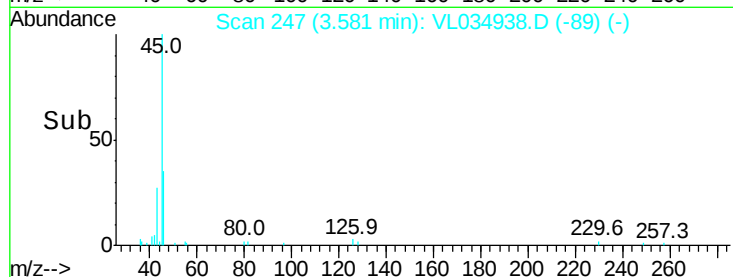
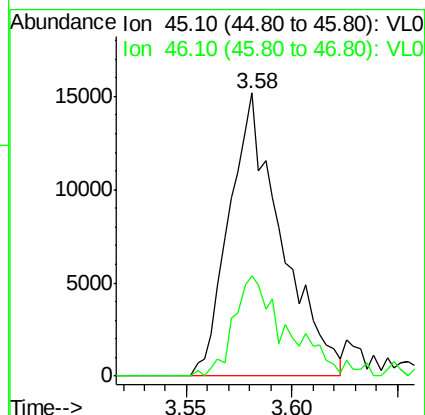
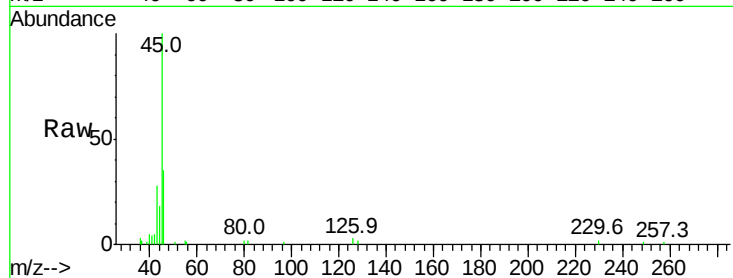
VSTDIC001

Tgt Ion: 45 Resp: 26012

Ion Ratio Lower Upper

45 100

46 36.7 14.3 57.3



#14

Bromoethene

Concen: 1.043 ppbv

RT: 3.71 min Scan# 287

Delta R.T. -0.00 min

Lab File: VL034938.D

Acq: 6 May 2020 11:26

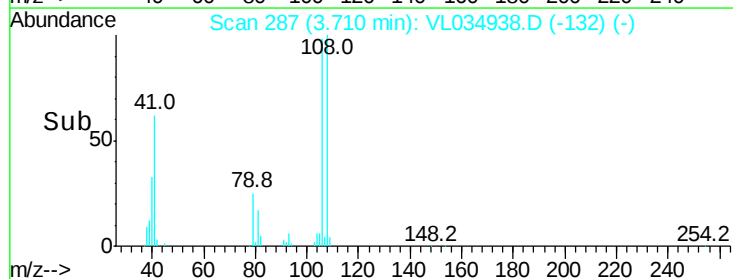
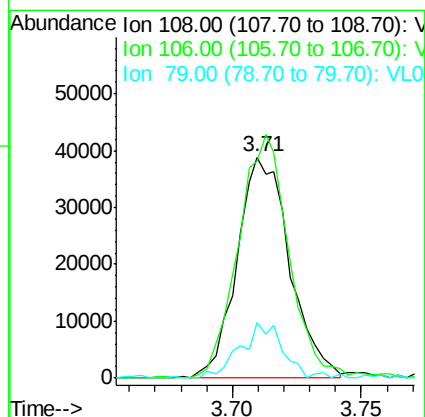
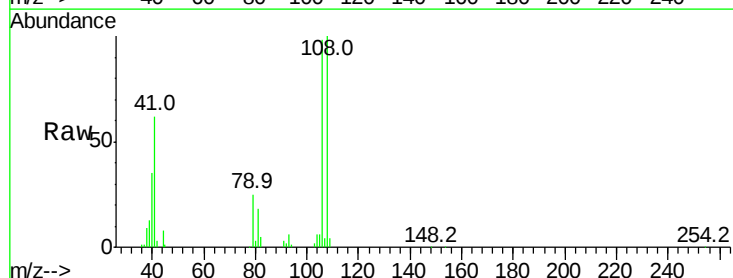
Tgt Ion: 108 Resp: 55054

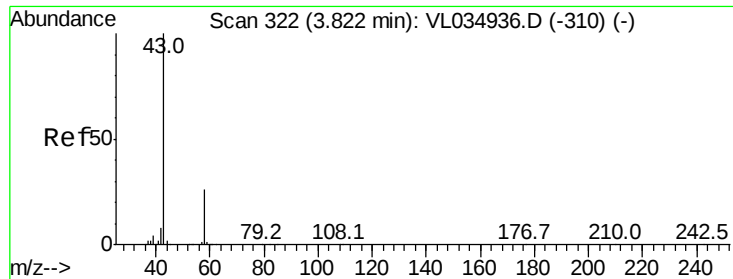
Ion Ratio Lower Upper

108 100

106 107.7 84.9 127.3

79 21.5 14.1 21.1#





#15

Acetone

Concen: 1.179 ppbv

RT: 3.83 min Scan# 324

Delta R.T. 0.01 min

Lab File: VL034938.D

Acq: 6 May 2020 11:26

Instrument :

MSVOA_L

ClientSampleId :

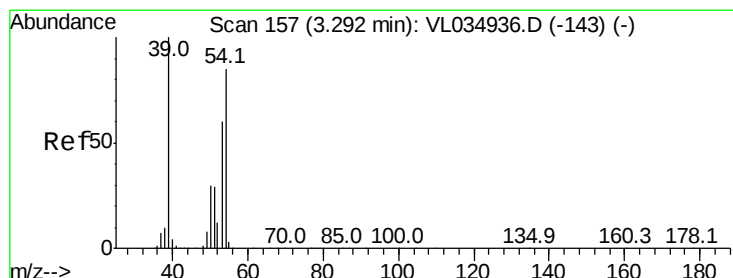
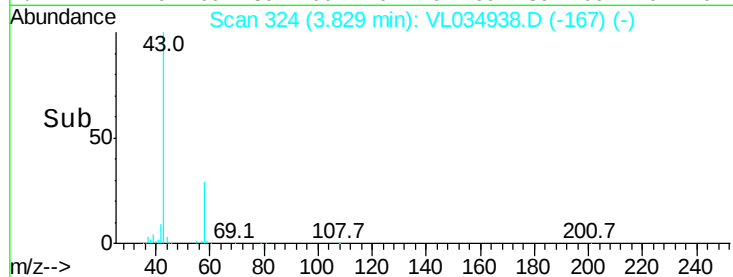
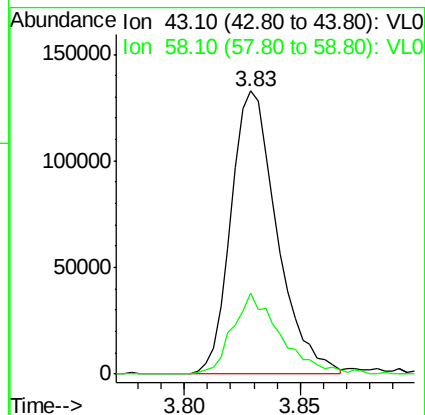
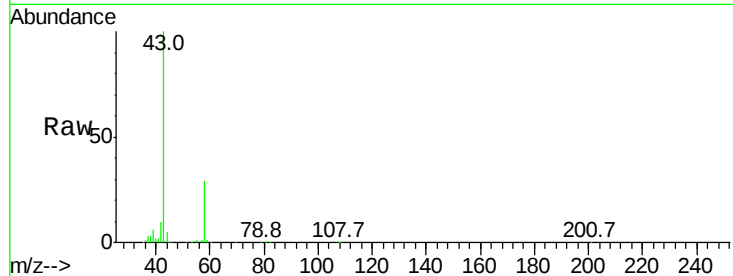
VSTDIC001

Tgt Ion: 43 Resp: 183080

Ion Ratio Lower Upper

43 100

58 30.0 21.7 32.5



#16

1,3-Butadiene

Concen: 0.957 ppbv

RT: 3.29 min Scan# 158

Delta R.T. 0.00 min

Lab File: VL034938.D

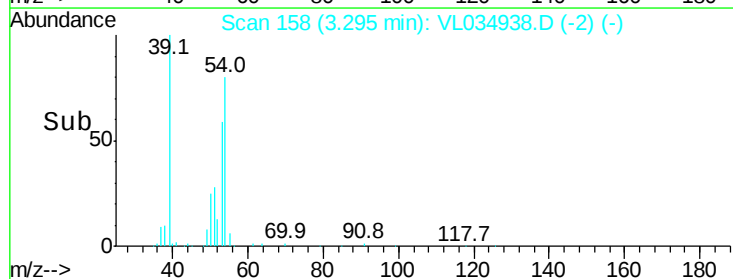
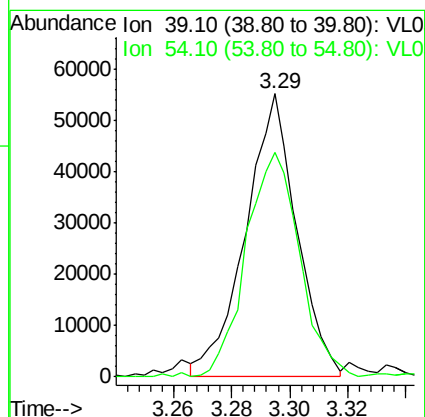
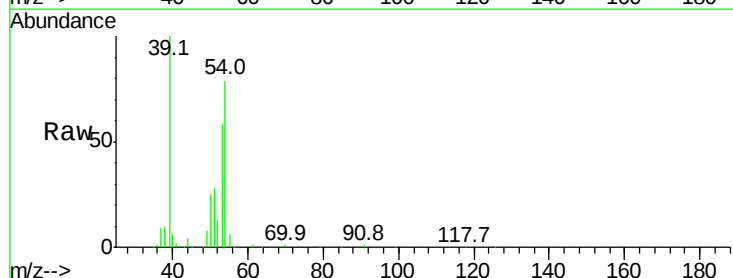
Acq: 6 May 2020 11:26

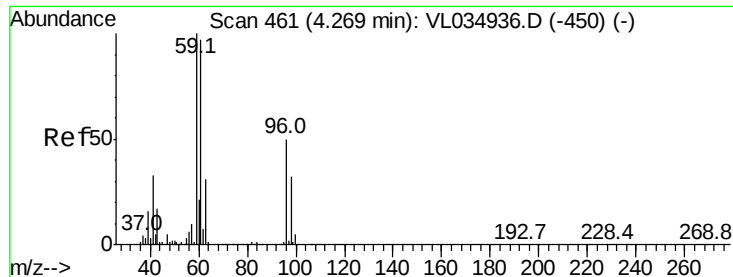
Tgt Ion: 39 Resp: 67234

Ion Ratio Lower Upper

39 100

54 85.0 66.6 100.0





#17

tert-Butyl alcohol

Concen: 1.053 ppbv

RT: 4.28 min Scan# 463

Delta R.T. 0.01 min

Lab File: VL034938.D

Acq: 6 May 2020 11:26

Instrument :

MSVOA_L

ClientSampleId :

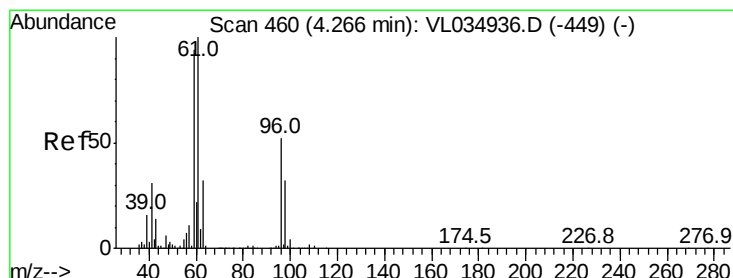
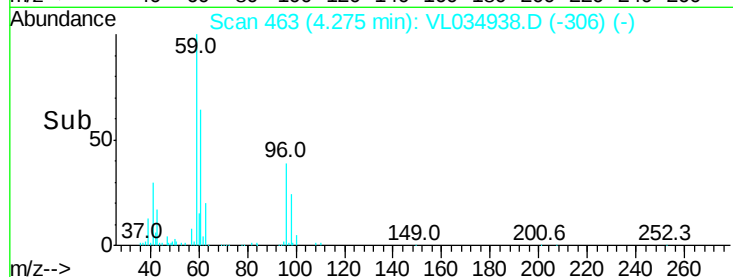
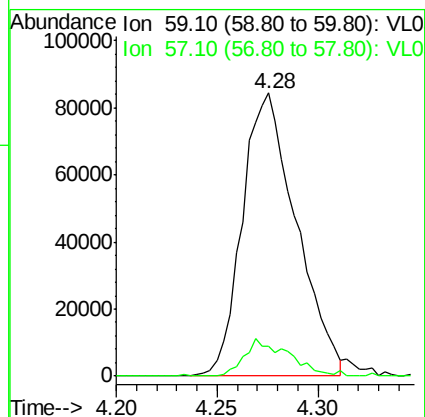
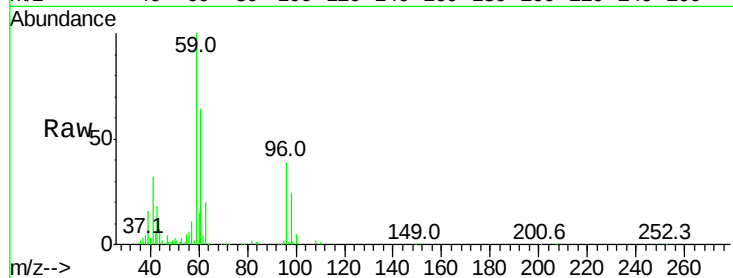
VSTDIC001

Tgt Ion: 59 Resp: 157551

Ion Ratio Lower Upper

59 100

57 11.1 8.7 13.1



#18

1,1-Dichloroethene

Concen: 1.063 ppbv

RT: 4.27 min Scan# 461

Delta R.T. 0.00 min

Lab File: VL034938.D

Acq: 6 May 2020 11:26

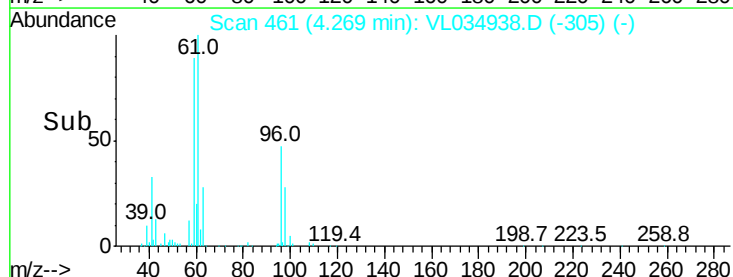
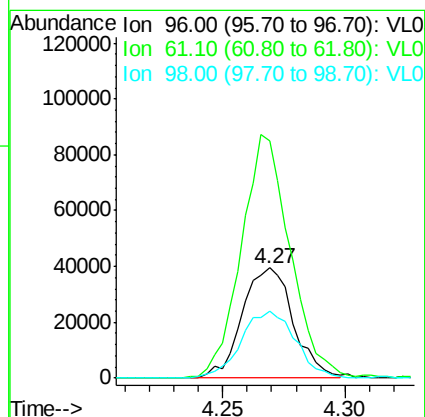
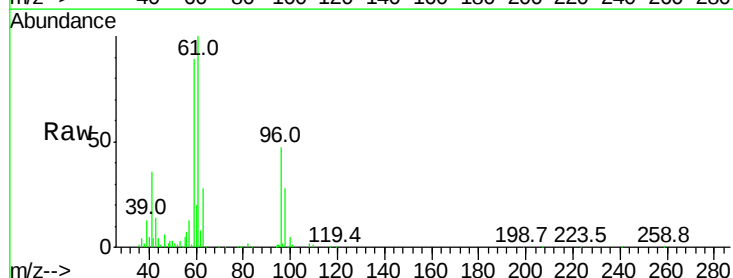
Tgt Ion: 96 Resp: 57510

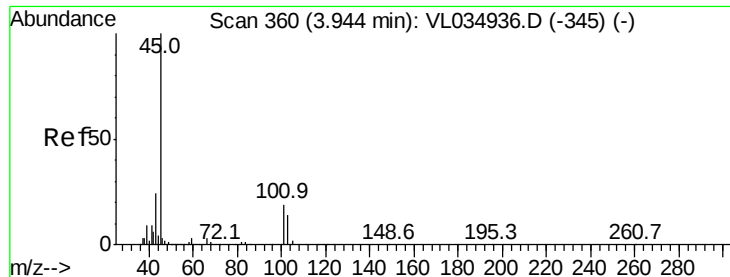
Ion Ratio Lower Upper

96 100

61 231.2 152.4 228.6#

98 60.4 48.8 73.2





#19

Isopropyl Alcohol

Concen: 1.217 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.00 min

Lab File: VL034938.D

Acq: 6 May 2020 11:26

Instrument :

MSVOA_L

ClientSampleId :

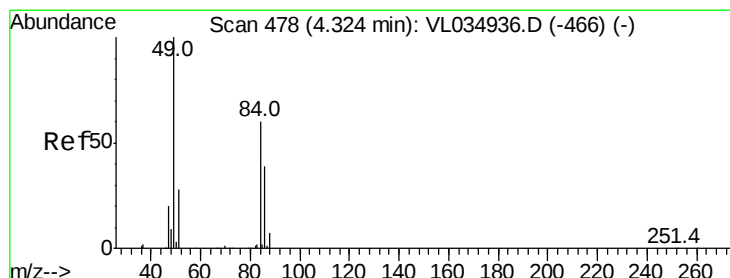
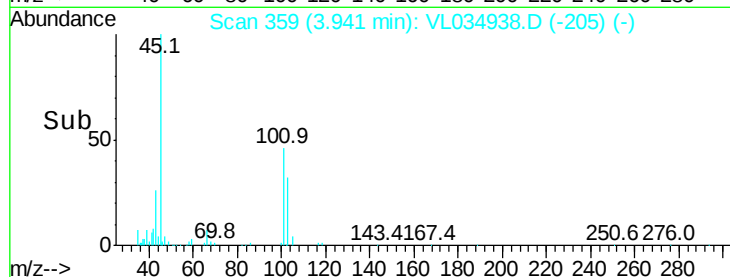
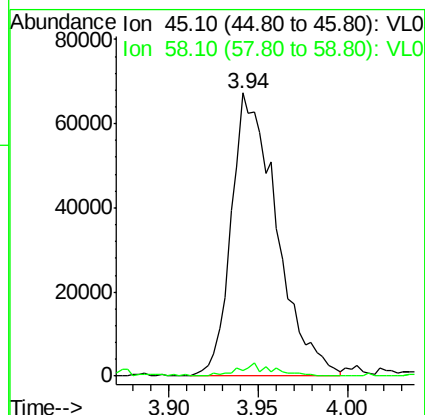
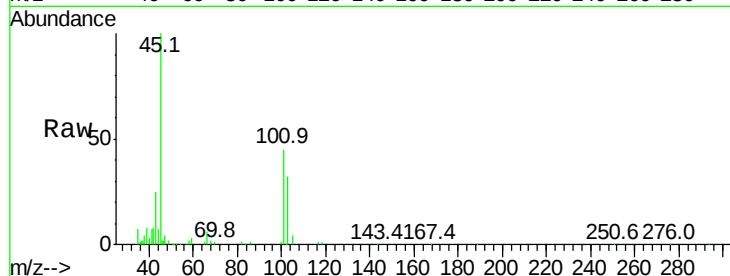
VSTDIC001

Tgt Ion: 45 Resp: 119340

Ion Ratio Lower Upper

45 100

58 3.7 1.7 2.5#



#20

Methylene Chloride

Concen: 1.183 ppbv

RT: 4.32 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL034938.D

Acq: 6 May 2020 11:26

Tgt Ion: 84 Resp: 58122

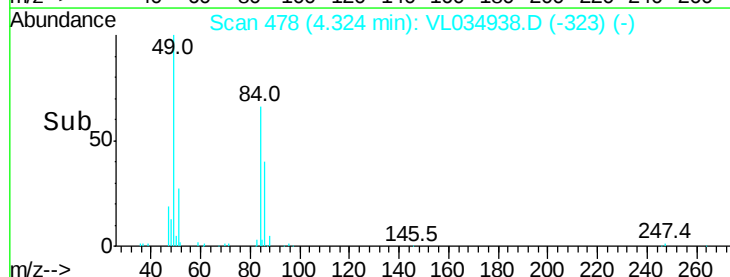
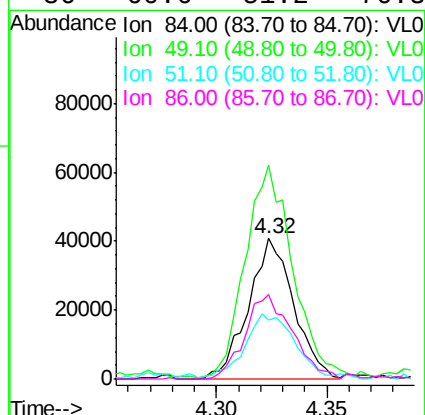
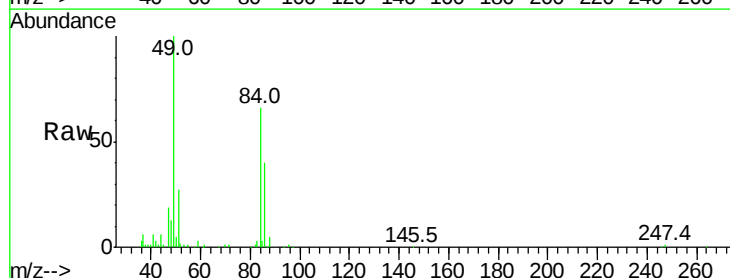
Ion Ratio Lower Upper

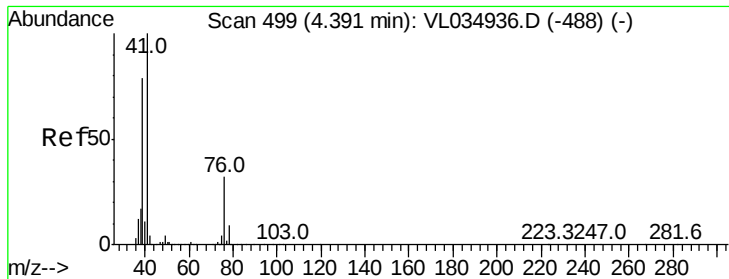
84 100

49 150.3 132.5 198.7

51 37.9 38.4 57.6#

86 60.6 51.2 76.8





#21

Allyl Chloride

Concen: 0.917 ppbv

RT: 4.39 min Scan# 500

Delta R.T. 0.00 min

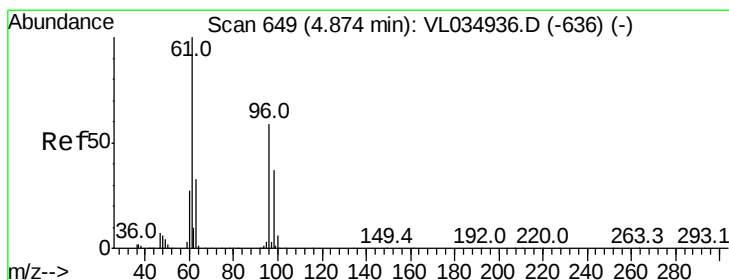
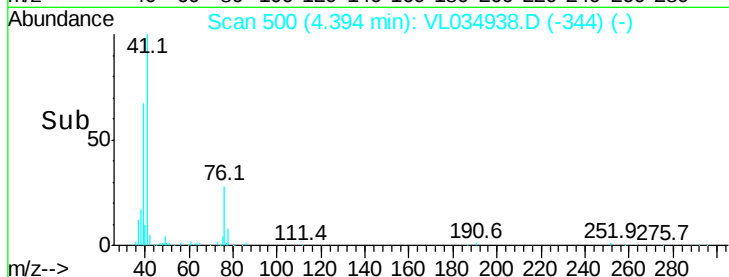
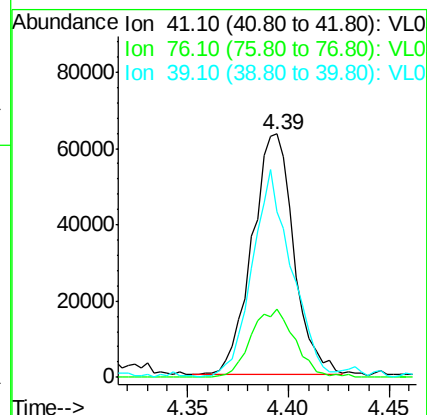
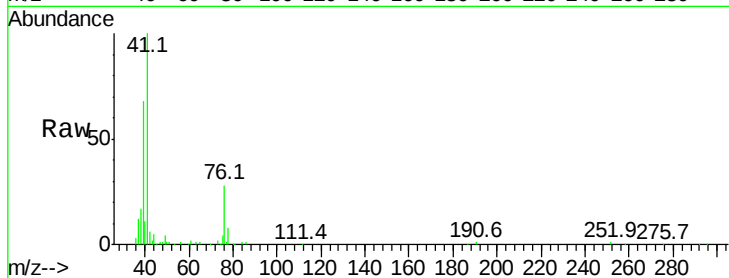
Lab File: VL034938.D

Acq: 6 May 2020 11:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 41 Resp: 91525

Ion	Ratio	Lower	Upper
41	100		
76	30.0	23.6	35.4
39	84.2	61.9	92.9



#22

trans-1,2-Dichloroethene

Concen: 0.446 ppbv

RT: 4.88 min Scan# 650

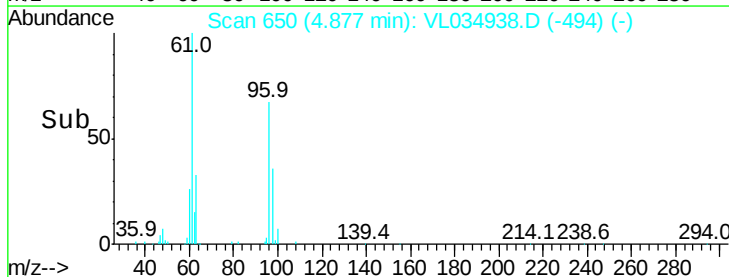
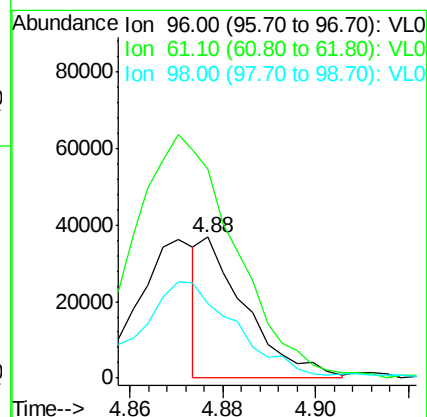
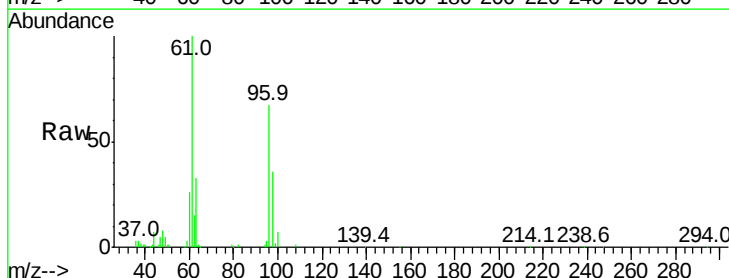
Delta R.T. 0.00 min

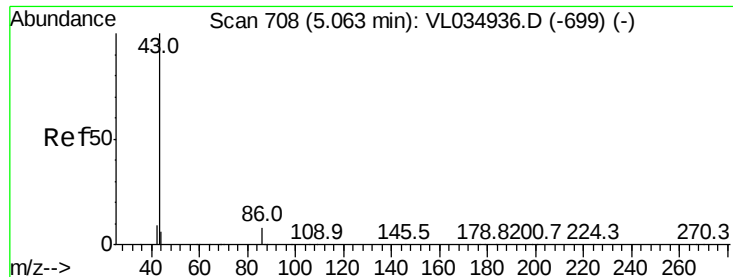
Lab File: VL034938.D

Acq: 6 May 2020 11:26

Tgt Ion: 96 Resp: 24506

Ion	Ratio	Lower	Upper
96	100		
61	148.5	135.3	202.9
98	52.0	50.4	75.6

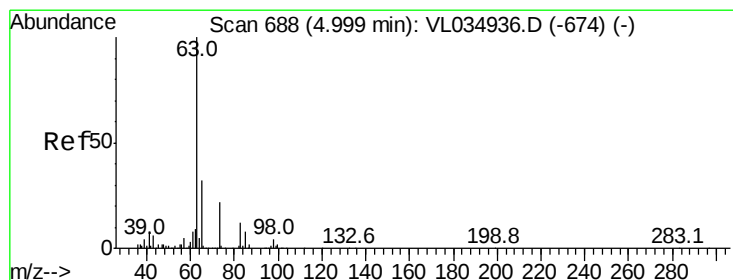
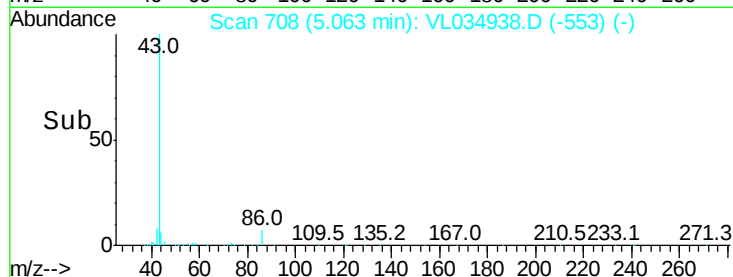
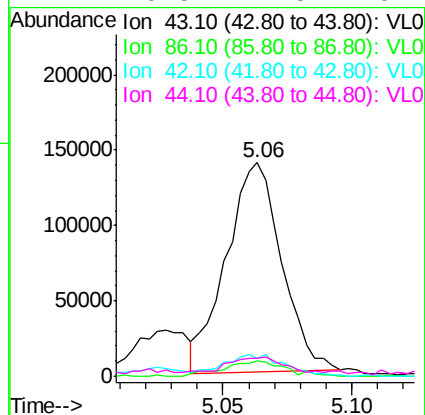
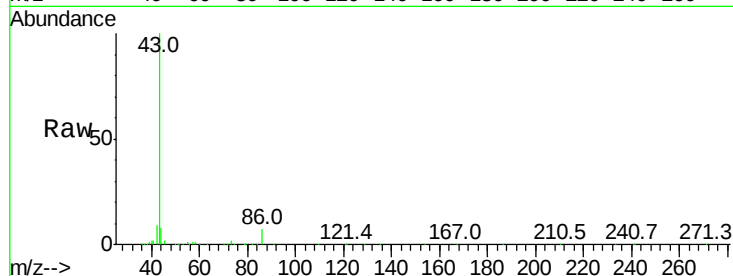




#23
 Vinyl Acetate
 Concen: 0.907 ppbv
 RT: 5.06 min Scan# 708
 Delta R.T. -0.00 min
 Lab File: VL034938.D
 Acq: 6 May 2020 11:26

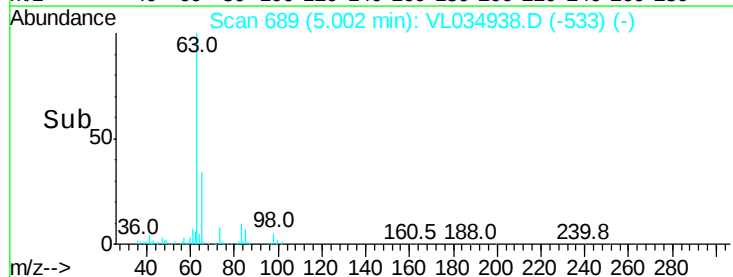
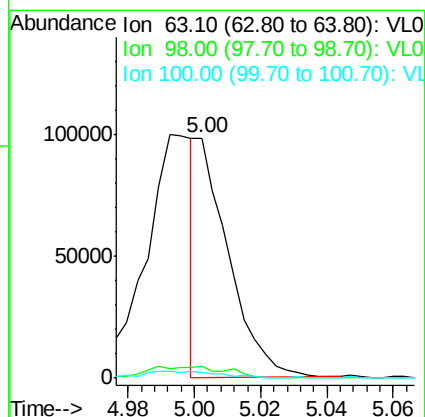
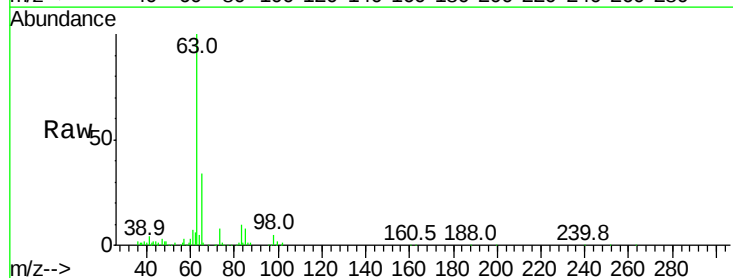
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

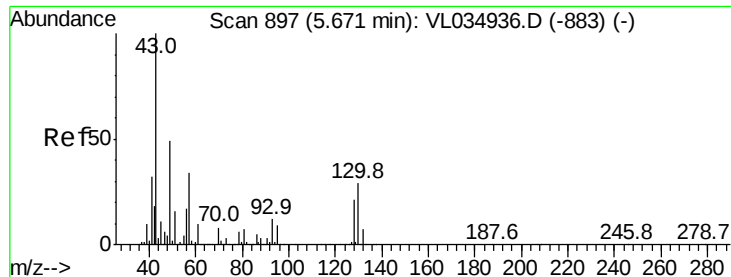
Tgt Ion:	43	Resp:	208105
Ion	Ratio	Lower	Upper
43	100		
86	6.9	5.5	8.3
42	8.1	8.0	12.0
44	6.5	4.5	6.7



#24
 1,1-Dichloroethane
 Concen: 0.423 ppbv
 RT: 5.00 min Scan# 689
 Delta R.T. 0.00 min
 Lab File: VL034938.D
 Acq: 6 May 2020 11:26

Tgt Ion:	63	Resp:	65100
Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.0	6.0
100	1.9	1.1	3.5





#25

Ethyl Acetate

Concen: 1.027 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.01 min

Lab File: VL034938.D

Acq: 6 May 2020 11:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 284097

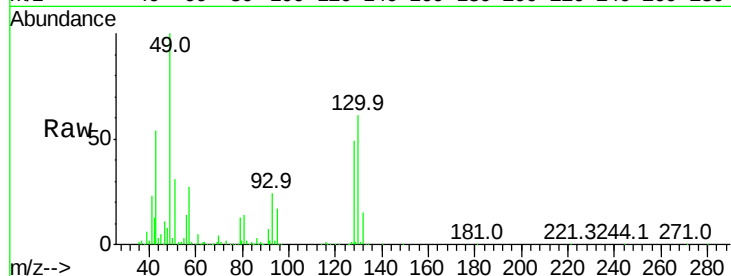
Ion Ratio Lower Upper

43 100

45 10.9 8.1 12.1

61 10.0 7.8 11.8

70 7.3 6.0 9.0

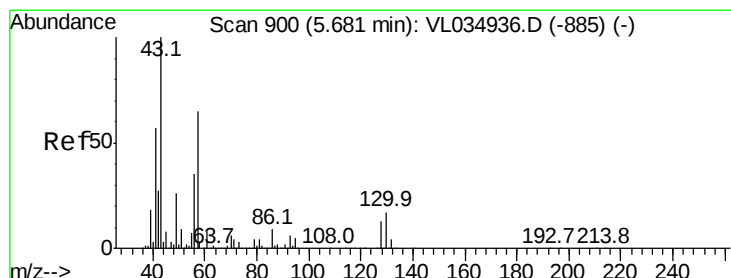
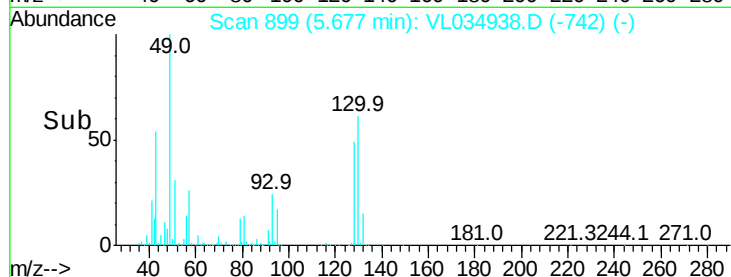
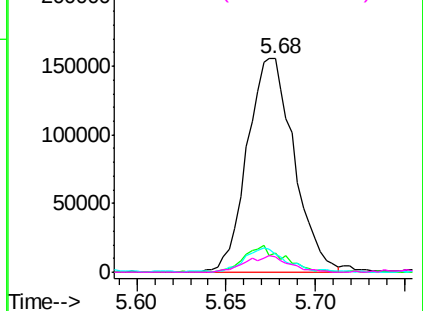


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.061 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.00 min

Lab File: VL034938.D

Acq: 6 May 2020 11:26

Tgt Ion: 57 Resp: 126392

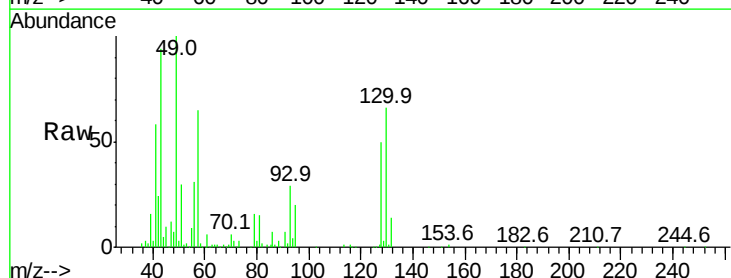
Ion Ratio Lower Upper

57 100

41 96.4 72.7 109.1

43 228.8 182.1 273.1

56 56.8 42.2 63.2

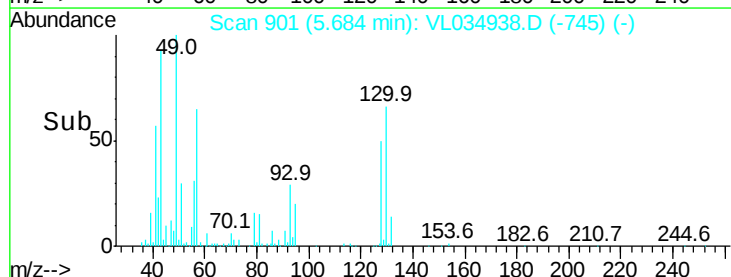
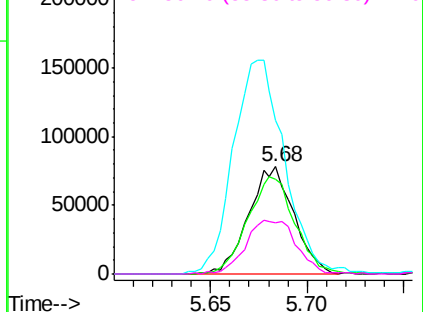


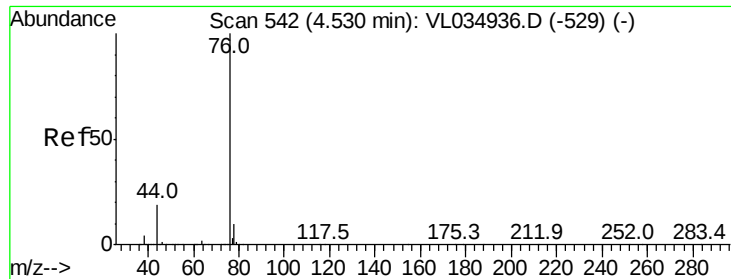
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 1.058 ppbv

RT: 4.53 min Scan# 543

Delta R.T. 0.00 min

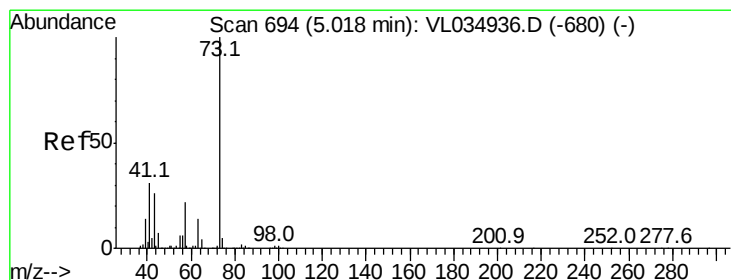
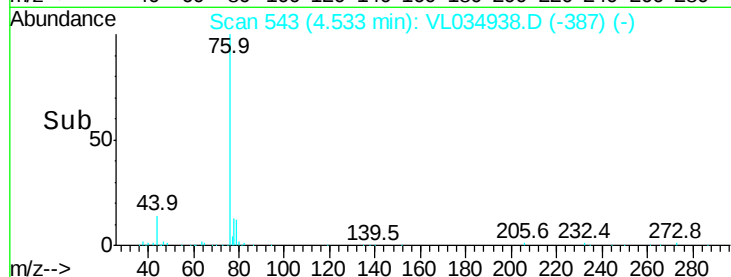
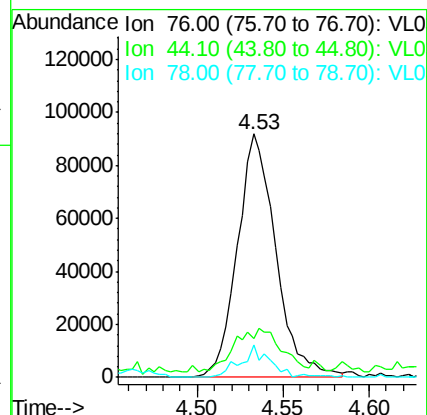
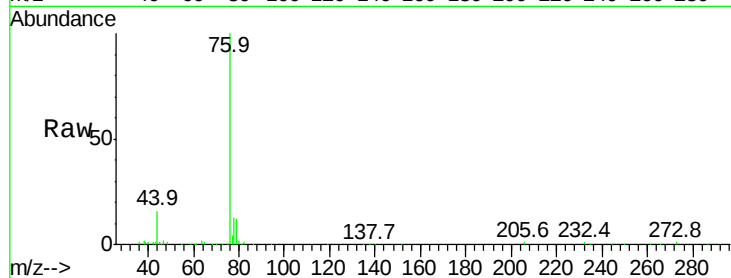
Lab File: VL034938.D

Acq: 6 May 2020 11:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 76 Resp: 143036

Ion	Ratio	Lower	Upper
76	100		
44	24.0	15.2	22.8#
78	10.2	7.7	11.5



#28

Methyl tert-Butyl Ether

Concen: 0.943 ppbv

RT: 5.02 min Scan# 696

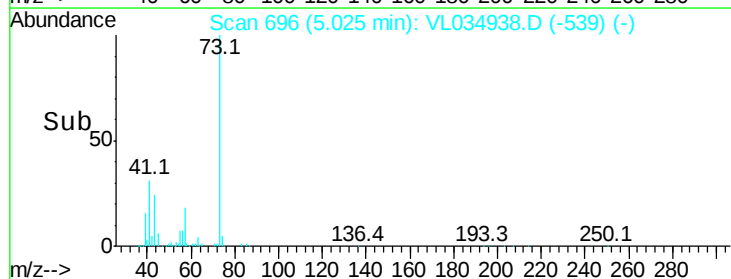
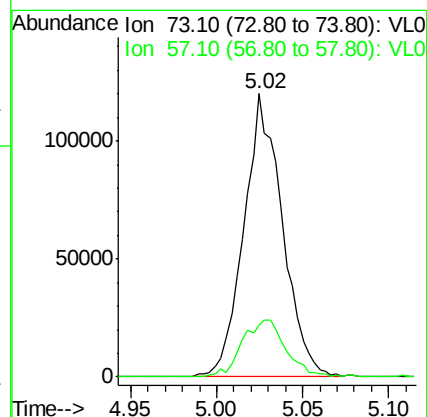
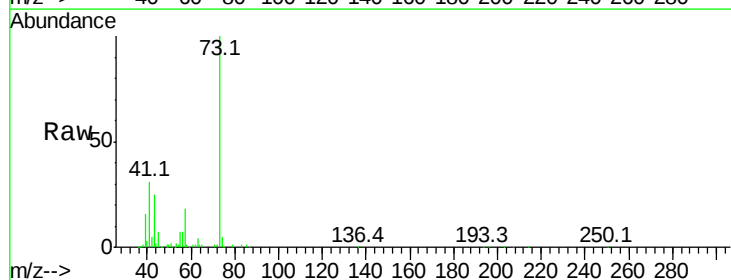
Delta R.T. 0.01 min

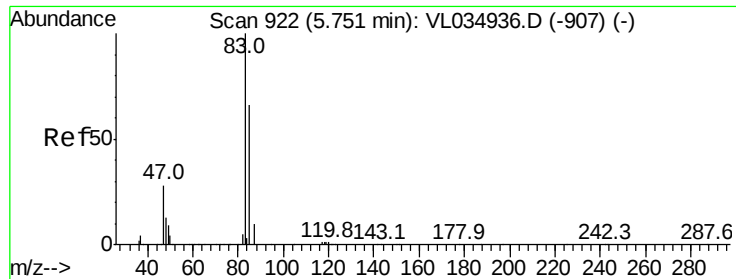
Lab File: VL034938.D

Acq: 6 May 2020 11:26

Tgt Ion: 73 Resp: 186886

Ion	Ratio	Lower	Upper
73	100		
57	23.2	18.3	27.5





#29

Chloroform

Concen: 1.136 ppbv

RT: 5.74 min Scan# 920

Delta R.T. -0.01 min

Lab File: VL034938.D

Acq: 6 May 2020 11:26

Instrument :

MSVOA_L

ClientSampleId :

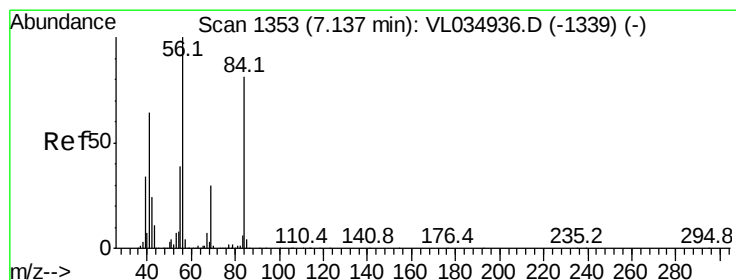
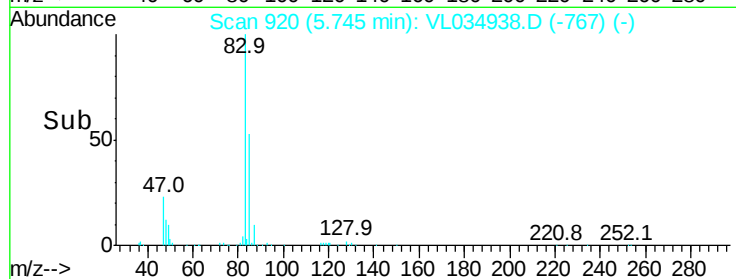
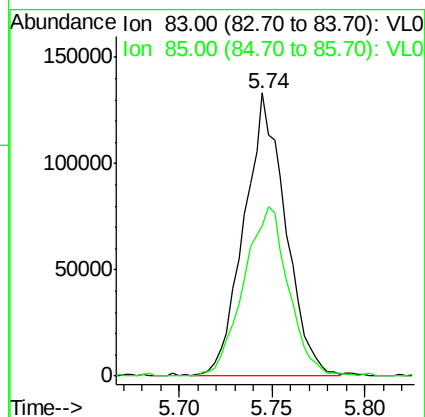
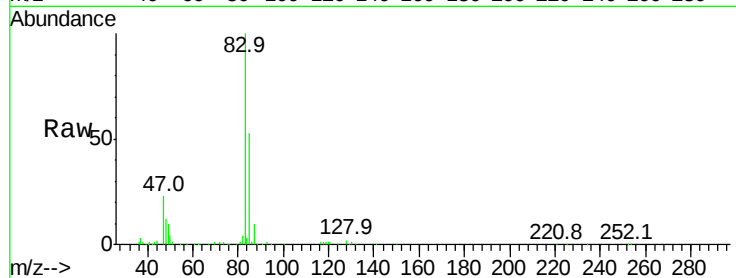
VSTDIC001

Tgt Ion: 83 Resp: 206611

Ion Ratio Lower Upper

83 100

85 53.0 53.0 79.6#



#30

Cyclohexane

Concen: 0.491 ppbv

RT: 7.14 min Scan# 1353

Delta R.T. -0.00 min

Lab File: VL034938.D

Acq: 6 May 2020 11:26

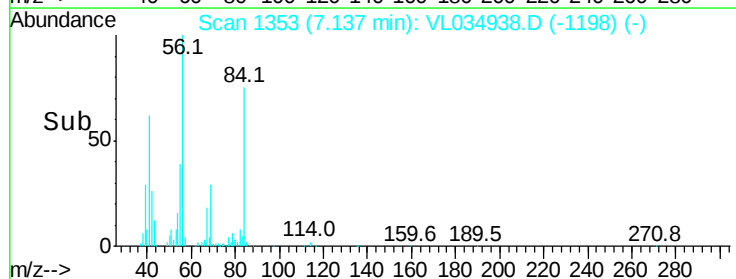
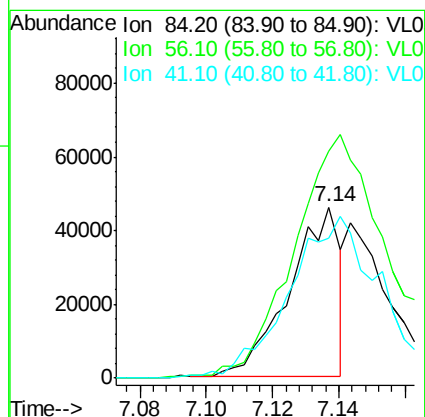
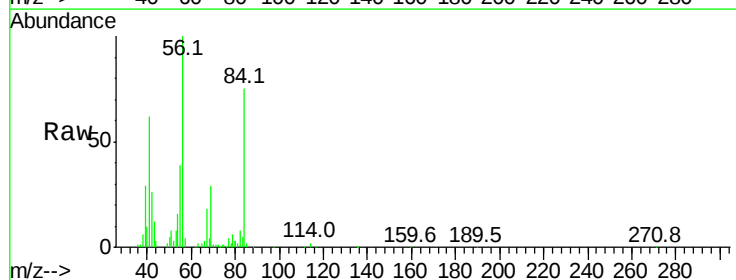
Tgt Ion: 84 Resp: 48785

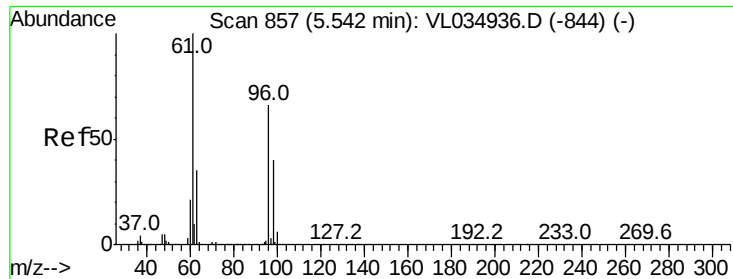
Ion Ratio Lower Upper

84 100

56 0.0 111.4 167.2#

41 0.0 66.7 100.1#



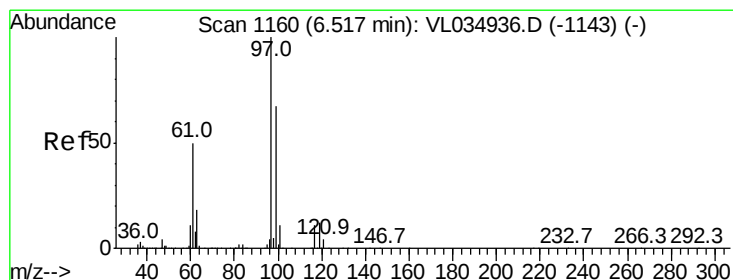
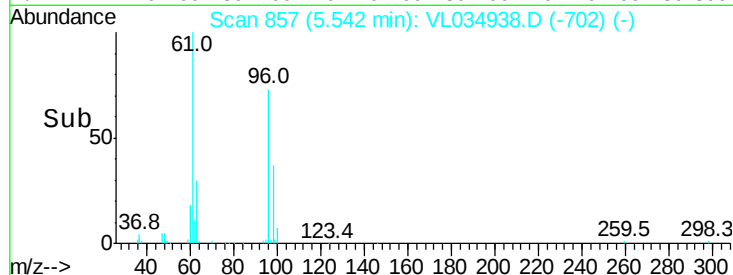
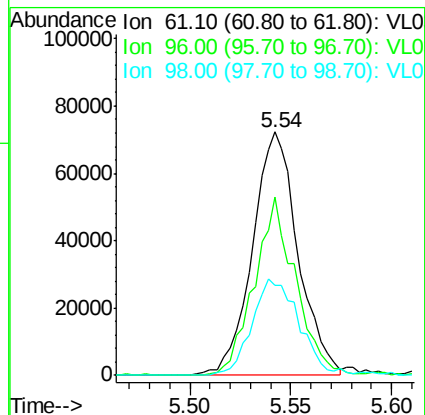
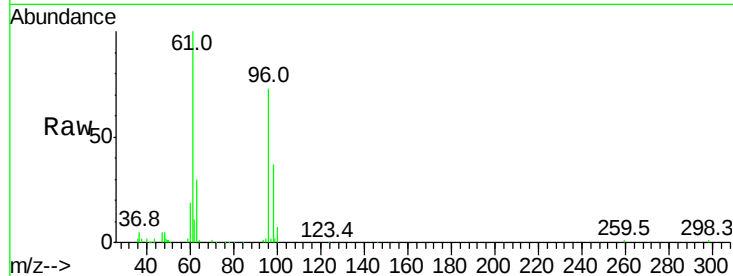


#31

cis-1,2-Dichloroethene
 Concen: 0.935 ppbv
 RT: 5.54 min Scan# 857
 Delta R.T. -0.00 min
 Lab File: VL034938.D
 Acq: 6 May 2020 11:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

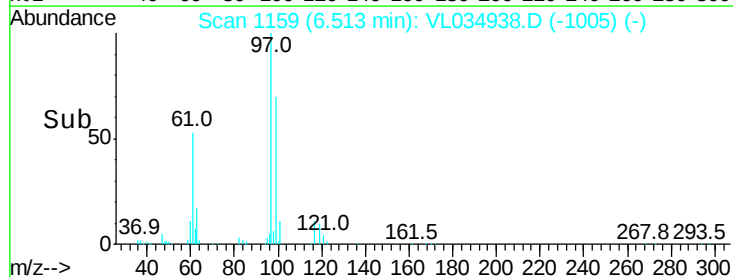
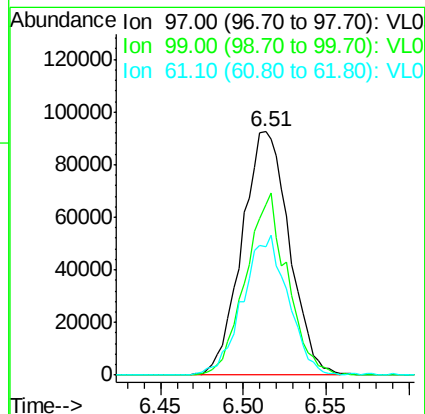
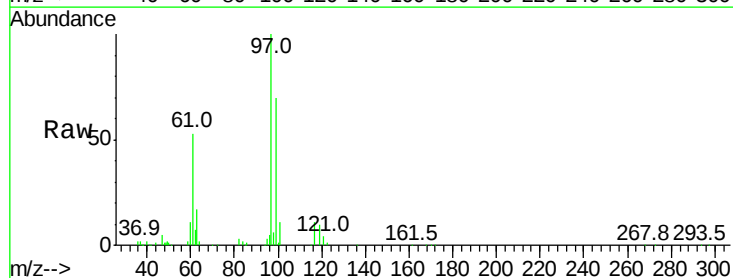
Tgt Ion: 61 Resp: 113959
 Ion Ratio Lower Upper
 61 100
 96 73.3 53.0 79.6
 98 37.1 32.2 48.2

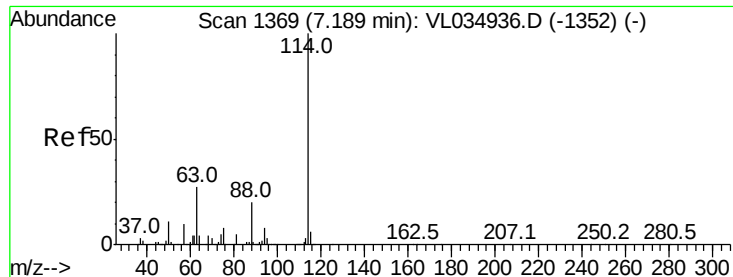


#32

1,1,1-Trichloroethane
 Concen: 1.038 ppbv
 RT: 6.51 min Scan# 1159
 Delta R.T. -0.00 min
 Lab File: VL034938.D
 Acq: 6 May 2020 11:26

Tgt Ion: 97 Resp: 183871
 Ion Ratio Lower Upper
 97 100
 99 65.6 52.1 78.1
 61 54.8 41.8 62.8

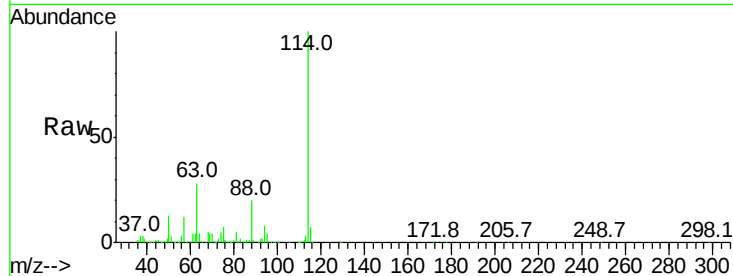




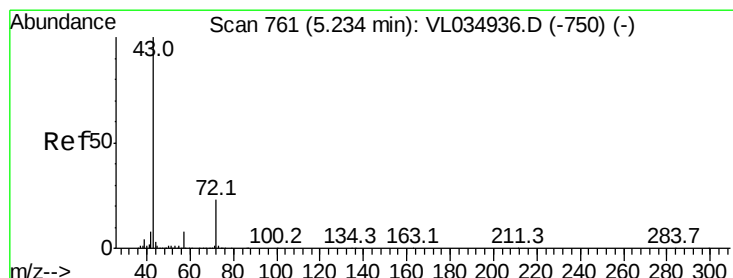
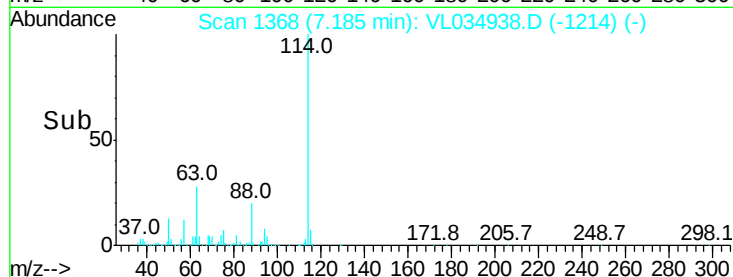
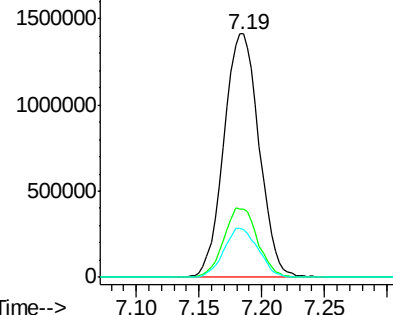
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. -0.00 min
 Lab File: VL034938.D
 Acq: 6 May 2020 11:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion:114 Resp: 2756981
 Ion Ratio Lower Upper
 114 100
 63 27.6 22.2 33.4
 88 19.7 15.5 23.3

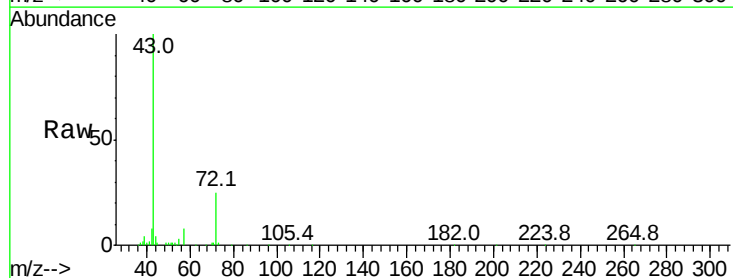


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

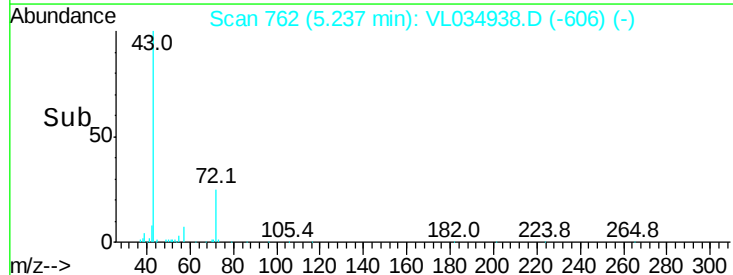
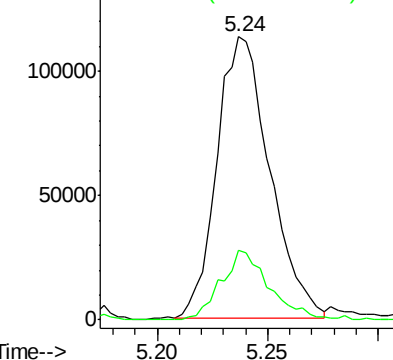


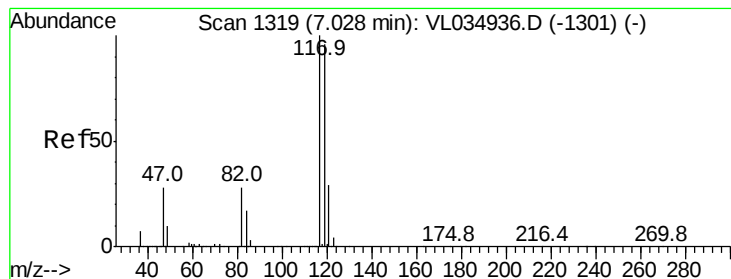
#34
 2-Butanone
 Concen: 1.025 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. 0.00 min
 Lab File: VL034938.D
 Acq: 6 May 2020 11:26

Tgt Ion: 43 Resp: 187839
 Ion Ratio Lower Upper
 43 100
 72 23.0 18.0 27.0



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.505 ppbv

RT: 7.03 min Scan# 1319

Delta R.T. -0.00 min

Lab File: VL034938.D

Acq: 6 May 2020 11:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

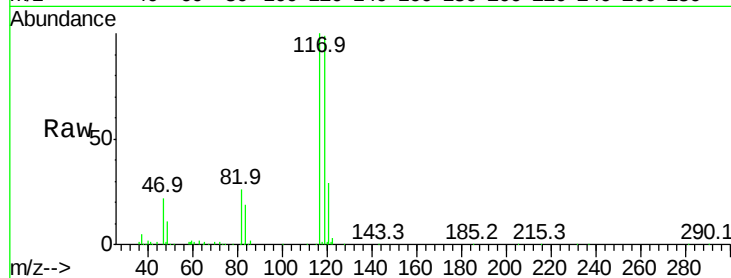
Tgt Ion:117 Resp: 86643

Ion Ratio Lower Upper

117 100

119 97.9 77.0 115.6

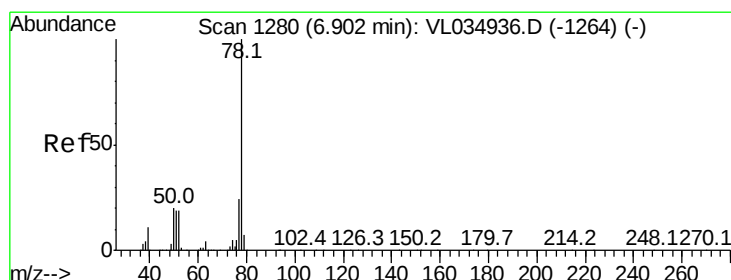
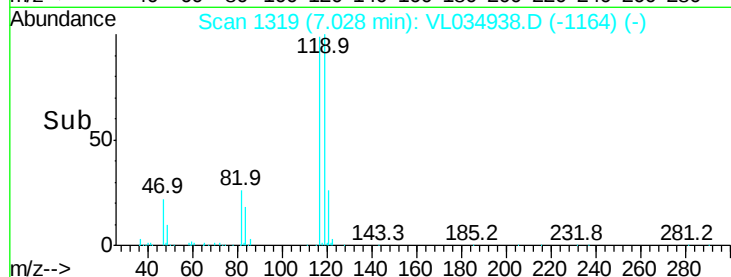
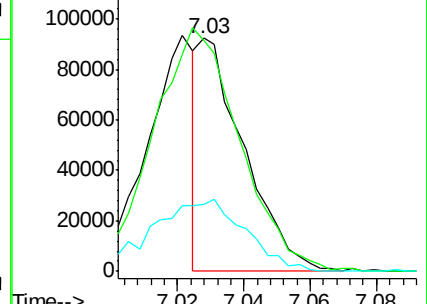
121 28.6 23.0 34.6



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



#36

Benzene

Concen: 0.989 ppbv

RT: 6.90 min Scan# 1278

Delta R.T. -0.01 min

Lab File: VL034938.D

Acq: 6 May 2020 11:26

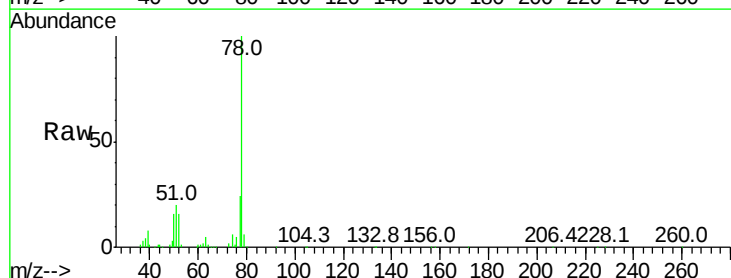
Tgt Ion: 78 Resp: 243104

Ion Ratio Lower Upper

78 100

77 23.7 19.0 28.6

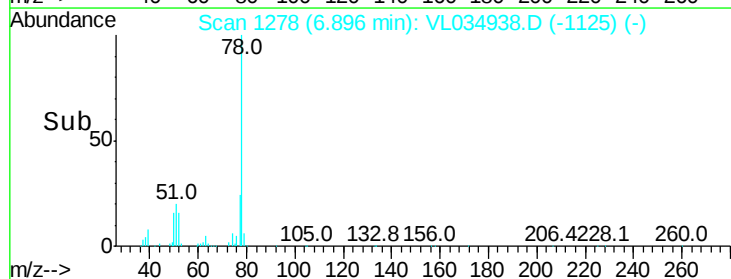
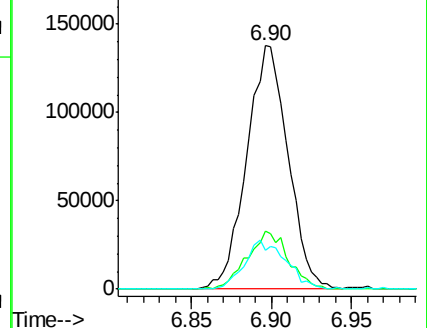
50 16.0 15.8 23.8

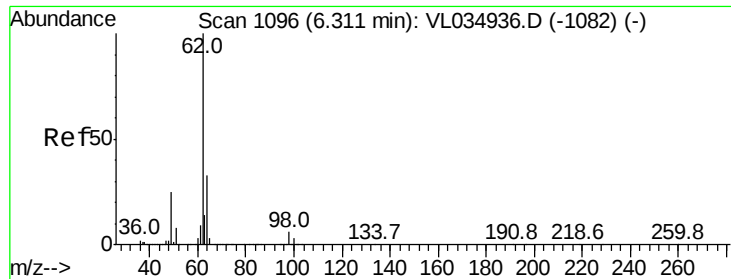


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 1.090 ppbv

RT: 6.31 min Scan# 1095

Delta R.T. -0.00 min

Lab File: VL034938.D

Acq: 6 May 2020 11:26

Instrument :

MSVOA_L

ClientSampleId :

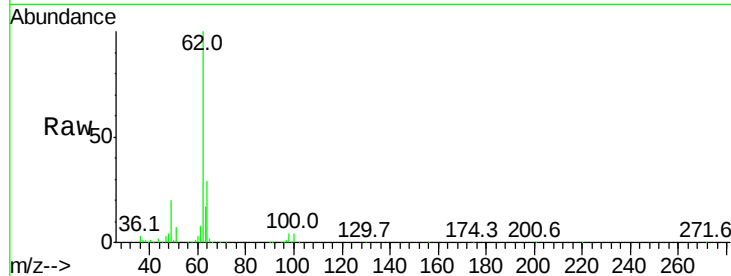
VSTDIC001

Tgt Ion: 62 Resp: 150979

Ion Ratio Lower Upper

62 100

98 5.9 4.8 7.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.31

100000

80000

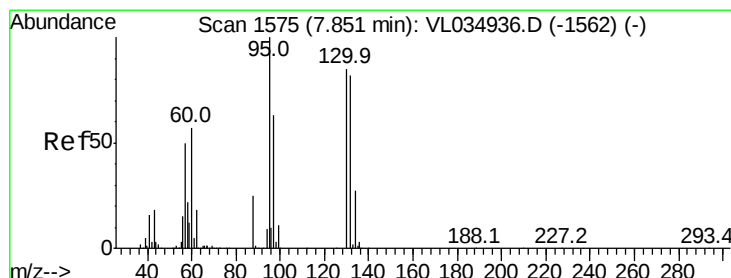
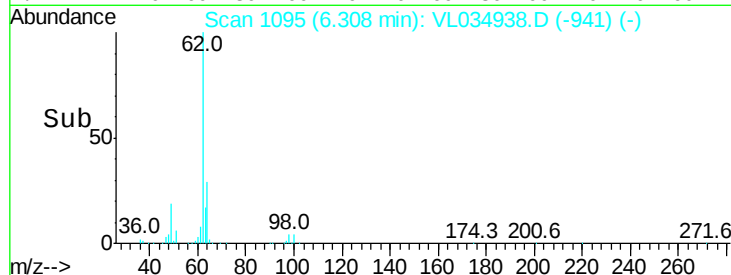
60000

40000

20000

0

Time-->



#38

Trichloroethene

Concen: 1.035 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VL034938.D

Acq: 6 May 2020 11:26

Tgt Ion: 130 Resp: 96624

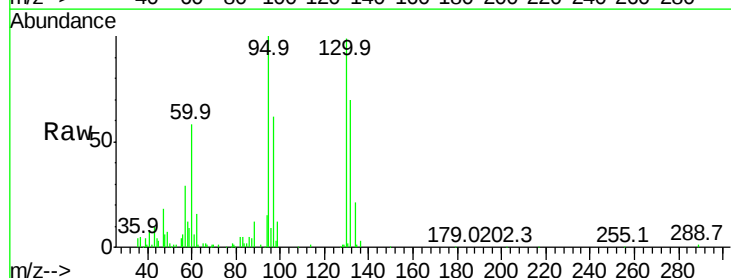
Ion Ratio Lower Upper

130 100

95 99.0 93.4 140.0

132 68.2 76.4 114.6#

97 61.0 58.5 87.7



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

7.85

80000

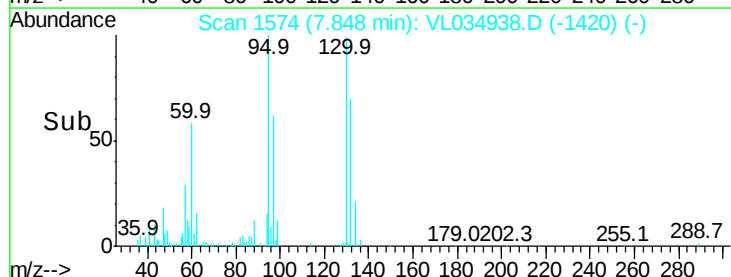
60000

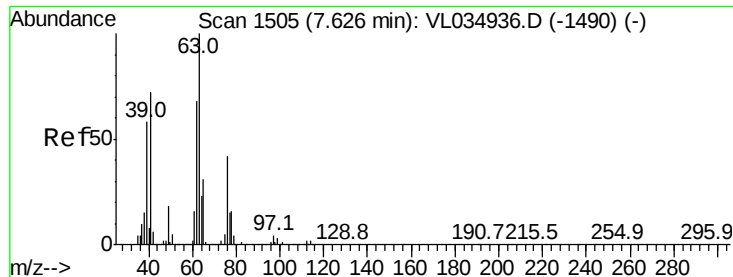
40000

20000

0

Time-->

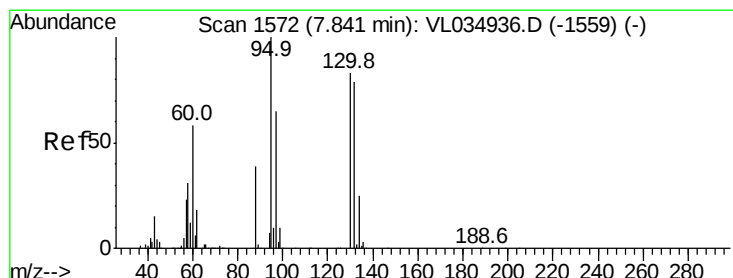
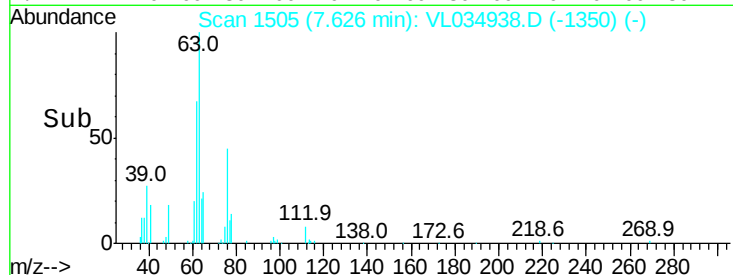
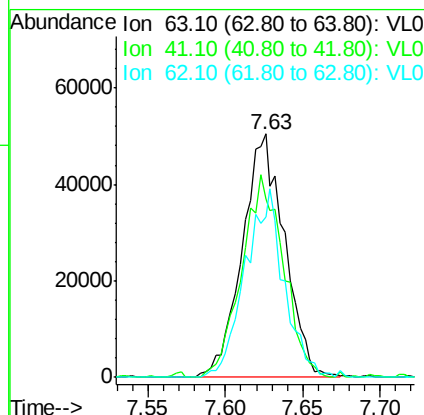
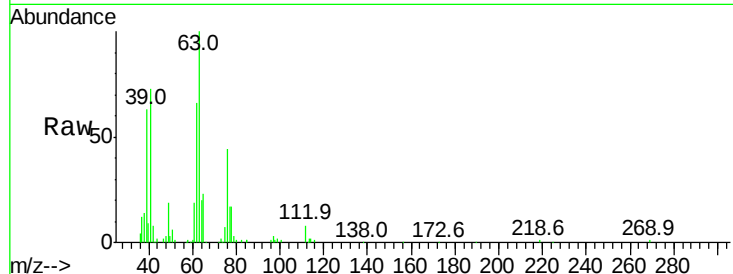




#39
 1,2-Dichloropropane
 Concen: 0.983 ppbv
 RT: 7.63 min Scan# 1505
 Delta R.T. -0.00 min
 Lab File: VL034938.D
 Acq: 6 May 2020 11:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 63 Resp: 95727
 Ion Ratio Lower Upper
 63 100
 41 73.2 57.8 86.8
 62 65.7 54.2 81.2



#40
 1,4-Dioxane
 Concen: 0.040 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. -0.00 min
 Lab File: VL034938.D
 Acq: 6 May 2020 11:26

Tgt Ion: 88 Resp: 1487
 Ion Ratio Lower Upper
 88 100
 58 0.0 105.1 157.7#
 43 0.0 202.6 303.8#
 57 0.0 869.4 1304.0#

