

Data File : VL034174.D
Acq On : 17 Sep 2019 6:47
Operator : SY/AP
Sample : VSTDIC0.1
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Quant Time: Sep 17 07:19:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 17 05:58:04 2019
QLast Update : Tue Sep 17 05:58:04 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1310940	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	2157617	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.16	117	2179976	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.50	95	1928838	10.73	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.30%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.04	85	26910	0.129	ppbv 94
3) Chlorodifluoromethane	2.98	51	18196	0.123	ppbv 100
4) Chloromethane	3.14	50	11191	0.123	ppbv # 63
5) Vinyl Chloride	3.25	62	7762	0.093	ppbv 90
6) Bromomethane	3.47	94	4131	0.102	ppbv # 67
7) Chloroethane	3.55	64	3198	0.112	ppbv # 85
8) Dichlorotetrafluoroethane	3.18	85	18507	0.107	ppbv 100
10) Heptane	8.18	43	12062	0.057	ppbv # 68
11) Trichlorofluoromethane	3.95	101	19802	0.112	ppbv 91
12) 1,1,2-Trichlorotrifluoroet	4.49	101	7512	0.064	ppbv # 39
13) Ethanol	3.60	45	658	0.042	ppbv # 36
14) Bromoethene	3.74	108	3094	0.061	ppbv # 8
15) Acetone	3.87	43	19163	0.121	ppbv # 70
16) 1,3-Butadiene	3.33	39	7961	0.100	ppbv 97
18) 1,1-Dichloroethene	4.30	96	4247	0.080	ppbv # 45
20) Methylene Chloride	4.36	84	5964	0.115	ppbv # 86
21) Allyl Chloride	4.42	41	10181	0.098	ppbv # 81
22) trans-1,2-Dichloroethene	4.90	96	3387	0.063	ppbv # 77
23) Vinyl Acetate	5.10	43	23945	0.090	ppbv # 91
24) 1,1-Dichloroethane	5.04	63	17952	0.101	ppbv # 96
25) Ethyl Acetate	5.72	43	20883	0.060	ppbv # 75
26) Hexane	5.71	57	5644	0.037	ppbv # 1
28) Methyl tert-Butyl Ether	5.08	73	19024	0.085	ppbv 97
29) Chloroform	5.79	83	9704	0.047	ppbv 96
30) Cyclohexane	7.18	84	4330	0.039	ppbv # 1
31) cis-1,2-Dichloroethene	5.58	61	13474	0.092	ppbv # 68
32) 1,1,1-Trichloroethane	6.56	97	9194	0.047	ppbv # 16
35) Carbon Tetrachloride	7.06	117	9525	0.056	ppbv # 80
36) Benzene	6.93	78	16032	0.065	ppbv 95
37) 1,2-Dichloroethane	6.35	62	7418	0.048	ppbv # 92
38) Trichloroethene	7.89	130	5995	0.065	ppbv # 81
39) 1,2-Dichloropropane	7.22	63	732179	6.877	ppbv # 19
43) Methyl Methacrylate	8.08	69	5055	0.050	ppbv # 9
46) cis-1,3-Dichloropropene	8.76	75	5719	0.039	ppbv # 84
47) 1,1,2-Trichloroethane	9.54	97	5167	0.054	ppbv # 50
50) 4-Methyl-2-Pentanone	8.83	43	13092	0.041	ppbv # 25
53) Toluene	9.87	91	13168	0.048	ppbv # 31
54) 1,2-Dibromoethane	10.68	107	8527	0.059	ppbv 98
57) Chlorobenzene	12.22	112	7390	0.039	ppbv # 66
58) Ethyl Benzene	13.04	91	17447	0.049	ppbv 92
59) m/p-Xylene	13.08	91	15986	0.055	ppbv # 32

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL091719\
Quantitation Report (Not Reviewed)

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Instrument :
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ClientSampleId :
VSTDICC0.1

Quant Time: Sep 17 07:19:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 17 05:58:04 2019
QLast Update : Tue Sep 17 05:58:04 2019
Response via : Initial Calibration

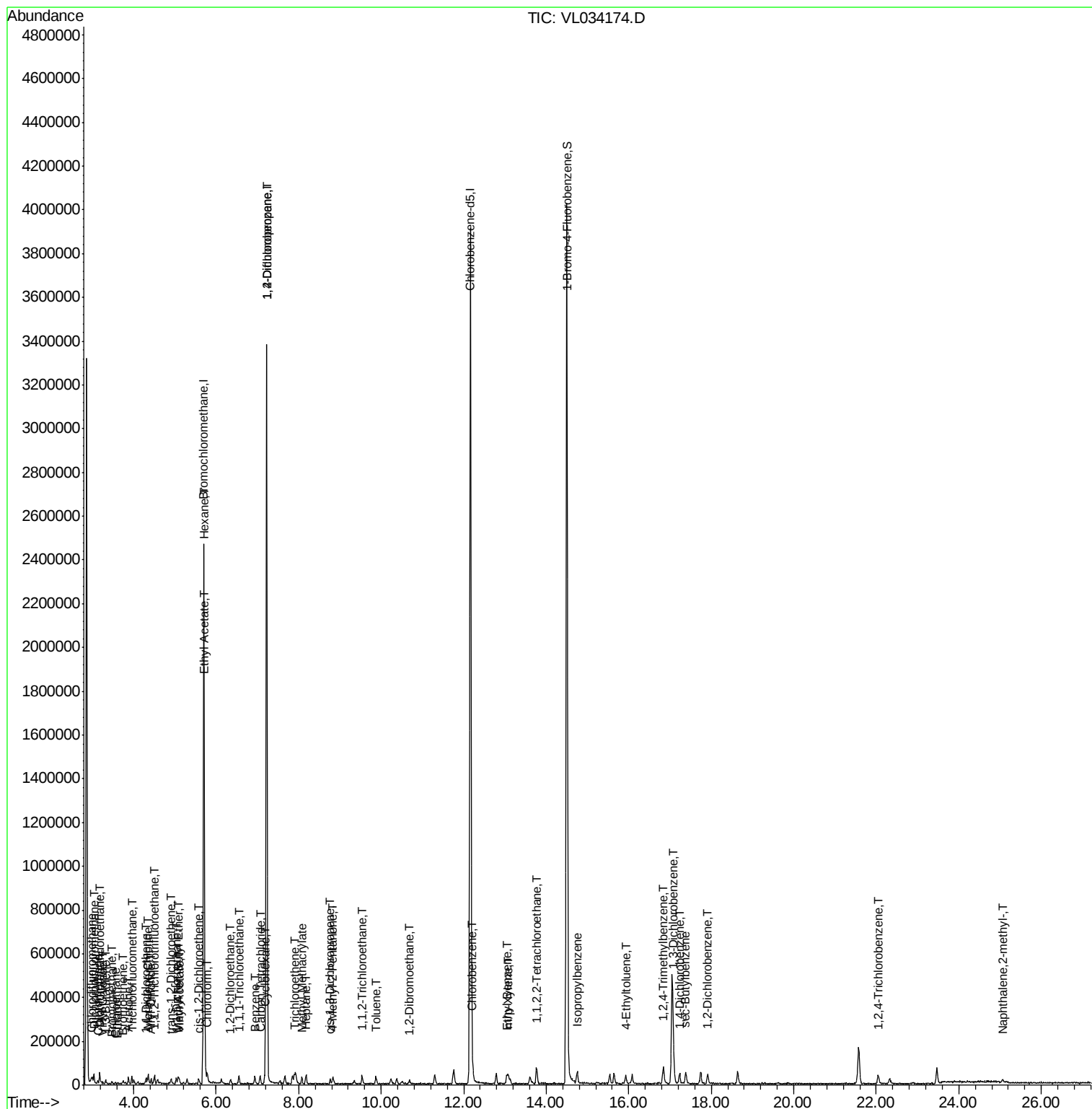
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) Isopropylbenzene	14.75	105	22199	0.059	ppbv #	70
63) 1,1,2,2-Tetrachloroethane	13.76	83	21380	0.090	ppbv	94
67) sec-Butylbenzene	17.38	105	25053	0.053	ppbv #	76
72) 4-Ethyltoluene	15.92	105	10271	0.031	ppbv #	55
74) 1,2,4-Trimethylbenzene	16.85	105	10901	0.033	ppbv #	46
75) 1,3-Dichlorobenzene	17.08	146	6215	0.035	ppbv #	1
76) 1,4-Dichlorobenzene	17.23	146	9959	0.054	ppbv #	22
77) 1,2-Dichlorobenzene	17.91	146	8316	0.046	ppbv #	1
80) Naphthalene,2-methyl-	25.07	142	7920	0.079	ppbv #	78
81) 1,2,4-Trichlorobenzene	22.04	180	5909	0.037	ppbv #	12

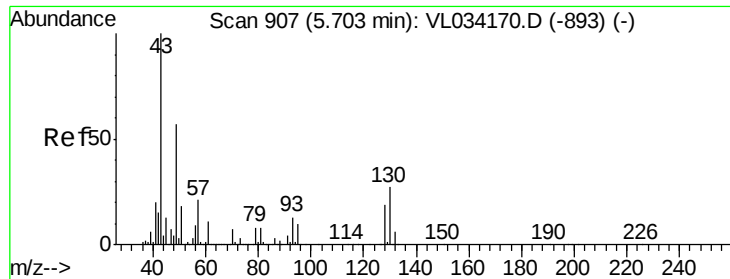
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 906

Delta R.T. -0.00 min

Lab File: VL034174.D

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

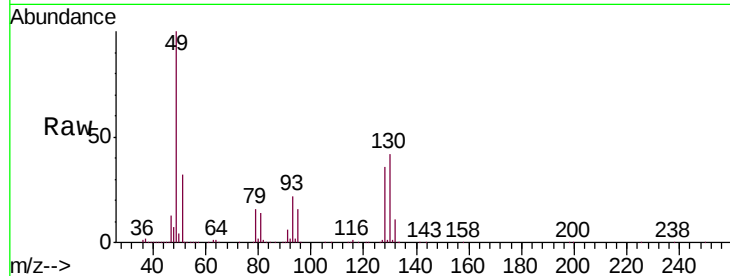
Tgt Ion: 49 Resp: 1310940

Ion Ratio Lower Upper

49 100

128 35.6 17.6 52.9

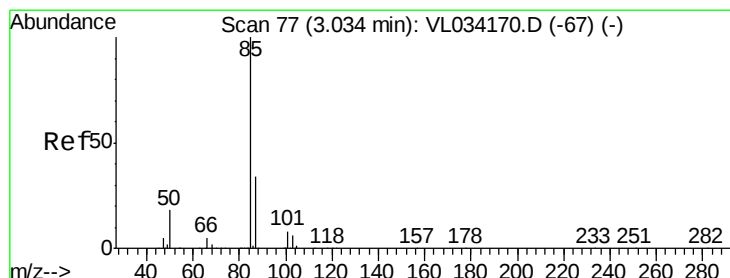
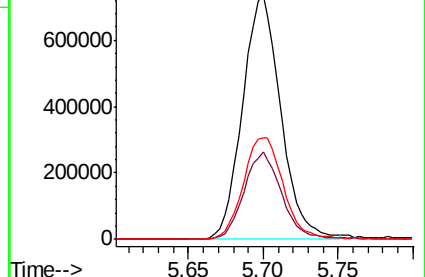
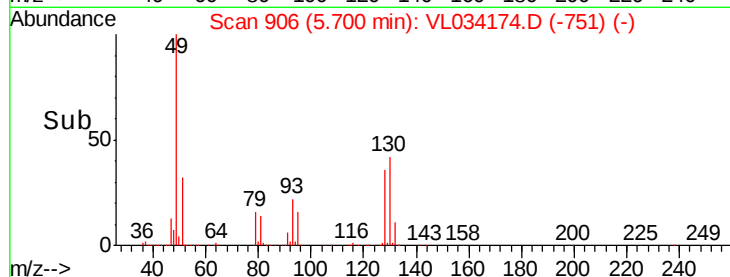
130 43.8 22.3 66.9



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.129 ppbv

RT: 3.04 min Scan# 78

Delta R.T. 0.00 min

Lab File: VL034174.D

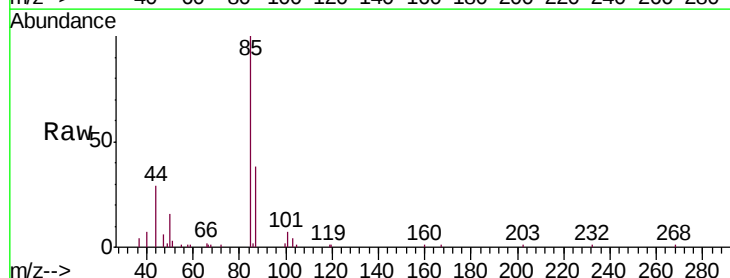
Acq: 17 Sep 2019 6:47

Tgt Ion: 85 Resp: 26910

Ion Ratio Lower Upper

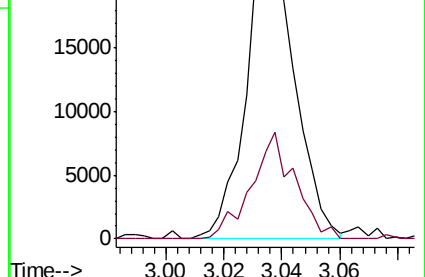
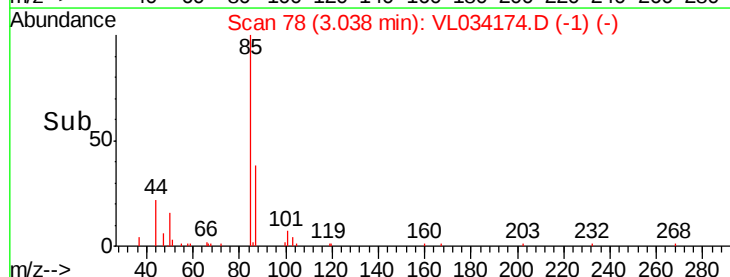
85 100

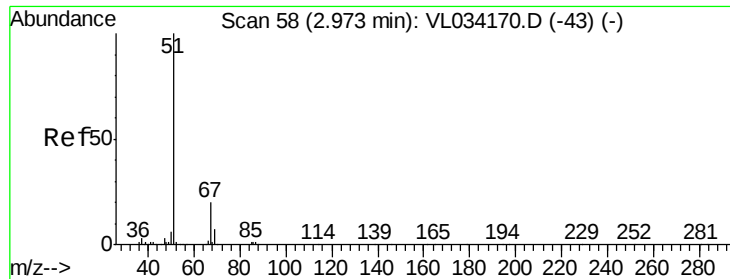
87 37.6 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.123 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.01 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Instrument :

MSVOA_L

ClientSampleId :

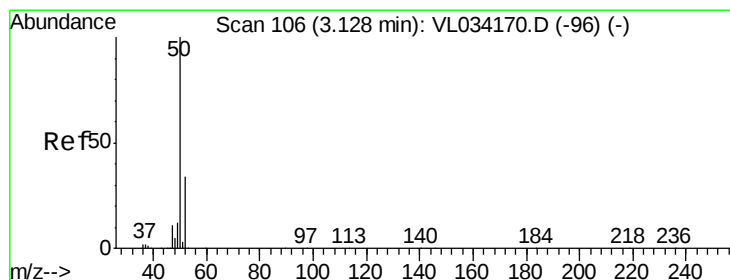
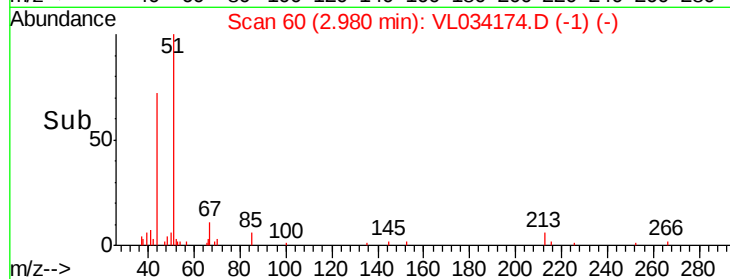
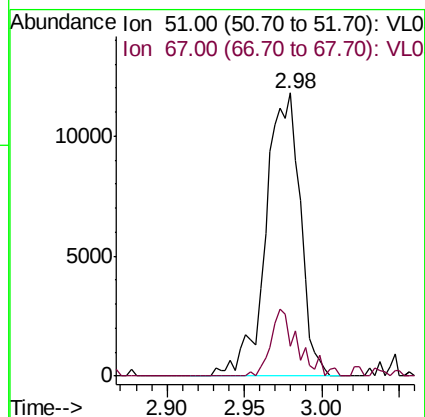
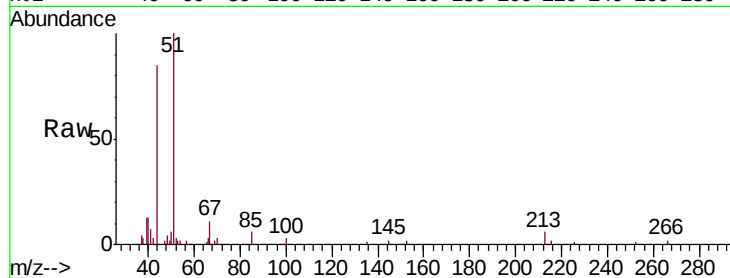
VSTDIC0.1

Tgt Ion: 51 Resp: 18196

Ion Ratio Lower Upper

51 100

67 18.4 14.8 22.2



#4

Chloromethane

Concen: 0.123 ppbv

RT: 3.14 min Scan# 109

Delta R.T. 0.01 min

Lab File: VL034174.D

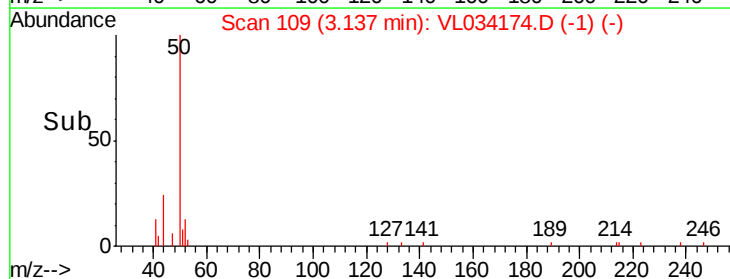
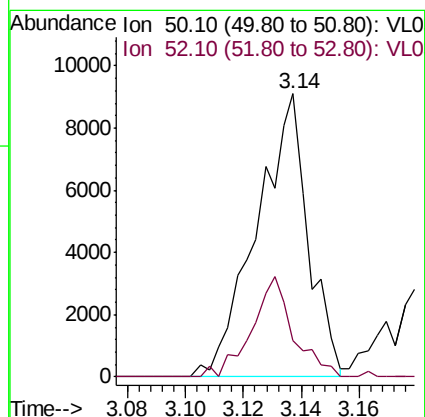
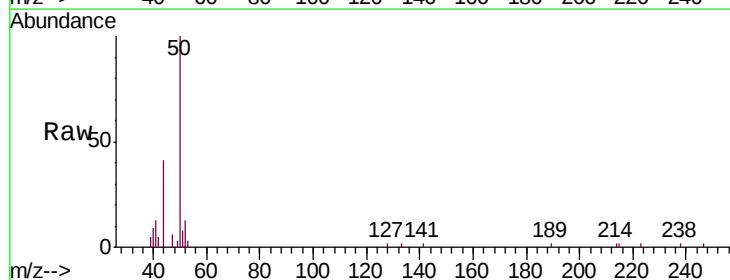
Acq: 17 Sep 2019 6:47

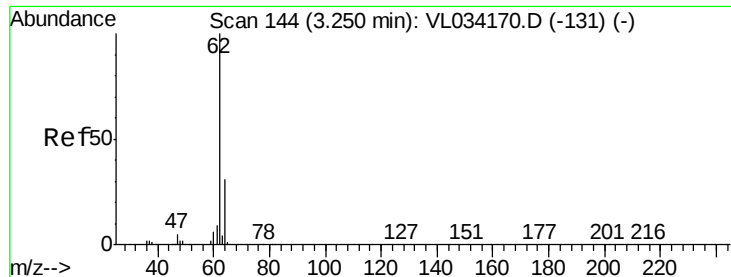
Tgt Ion: 50 Resp: 11191

Ion Ratio Lower Upper

50 100

52 13.0 27.1 40.7#





#5

Vinyl Chloride

Concen: 0.093 ppbv

RT: 3.25 min Scan# 144

Delta R.T. 0.00 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Instrument :

MSVOA_L

ClientSampleId :

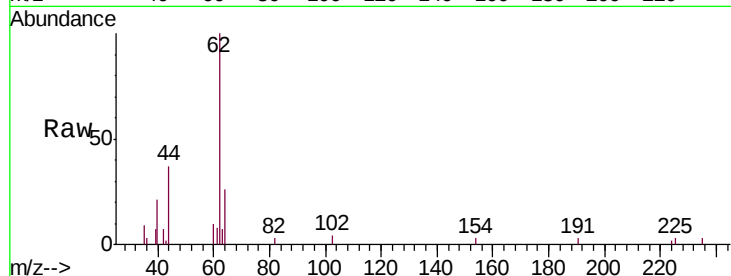
VSTDIC0.1

Tgt Ion: 62 Resp: 7762

Ion Ratio Lower Upper

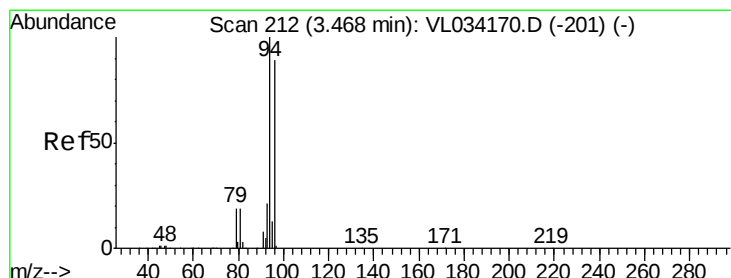
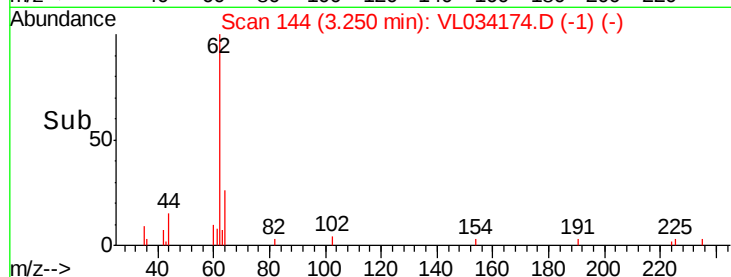
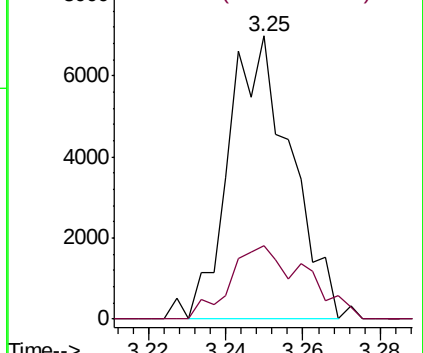
62 100

64 26.0 25.2 37.8



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.102 ppbv

RT: 3.47 min Scan# 214

Delta R.T. 0.01 min

Lab File: VL034174.D

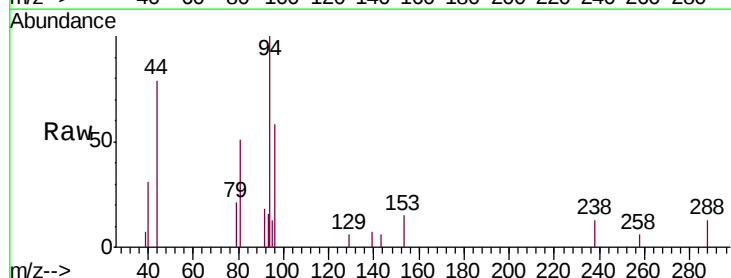
Acq: 17 Sep 2019 6:47

Tgt Ion: 94 Resp: 4131

Ion Ratio Lower Upper

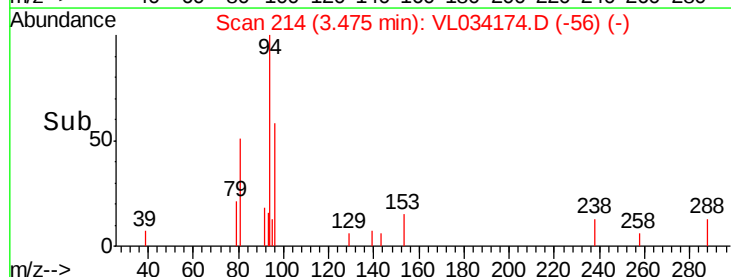
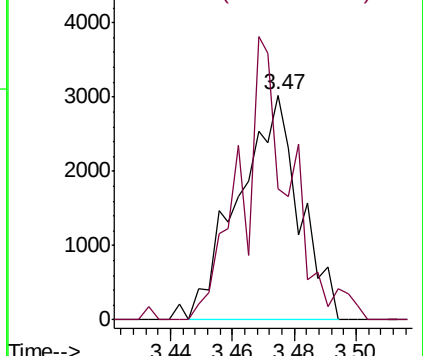
94 100

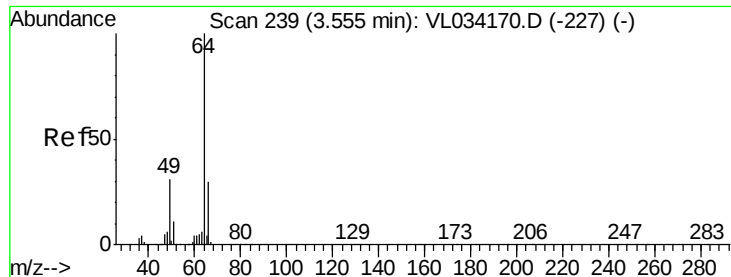
96 58.3 71.3 106.9#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.112 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.00 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Instrument :

MSVOA_L

ClientSampleId :

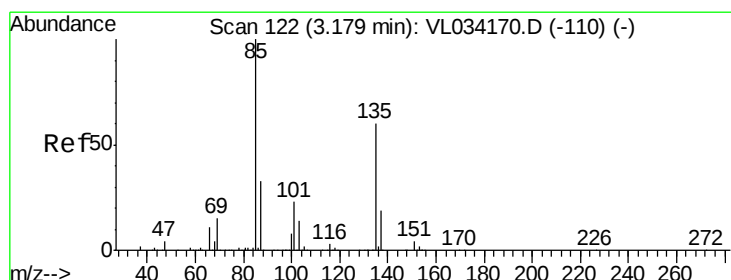
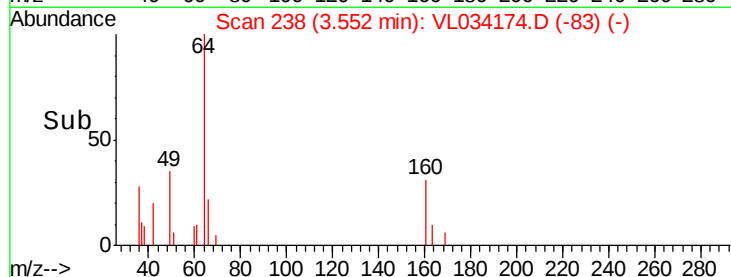
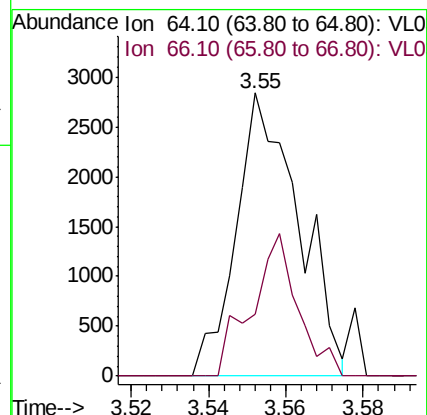
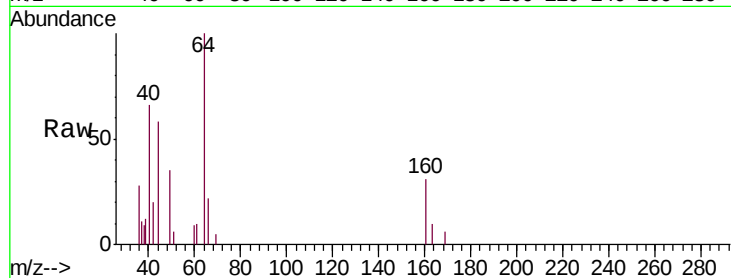
VSTDIC0.1

Tgt Ion: 64 Resp: 3198

Ion Ratio Lower Upper

64 100

66 22.1 24.2 36.4#



#8

Dichlorotetrafluoroethane

Concen: 0.107 ppbv

RT: 3.18 min Scan# 121

Delta R.T. -0.00 min

Lab File: VL034174.D

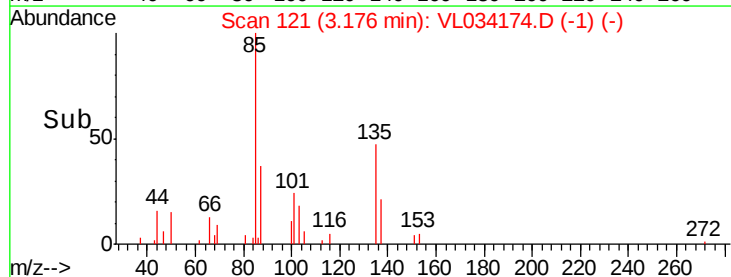
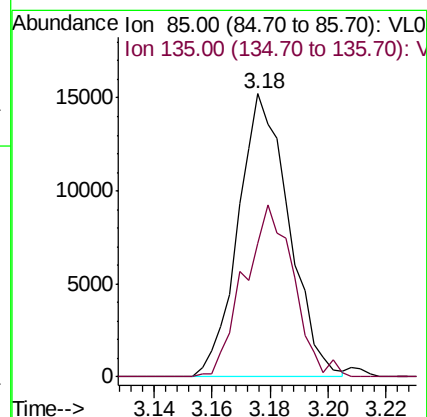
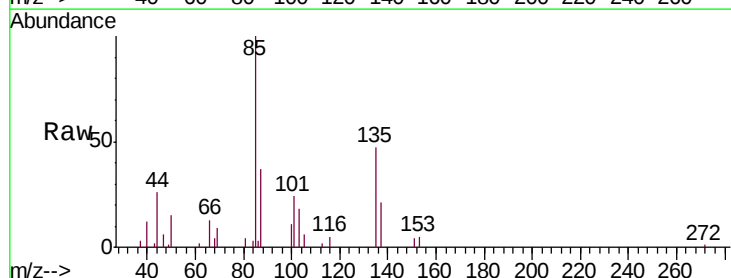
Acq: 17 Sep 2019 6:47

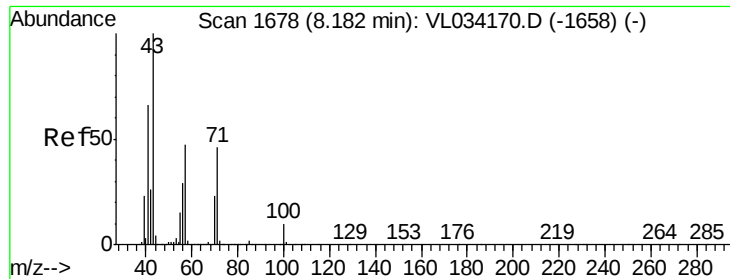
Tgt Ion: 85 Resp: 18507

Ion Ratio Lower Upper

85 100

135 59.2 47.3 70.9

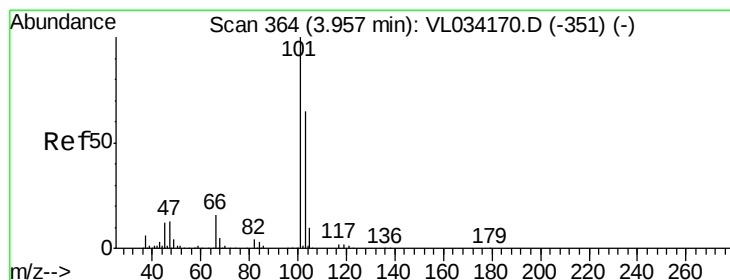
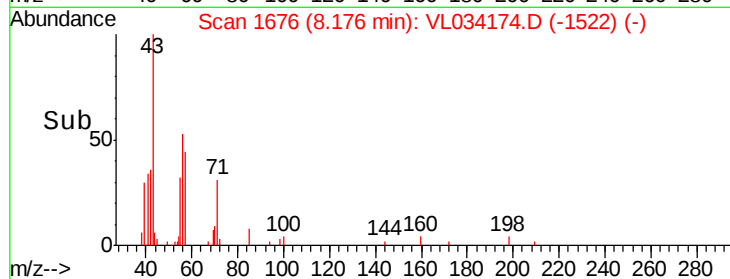
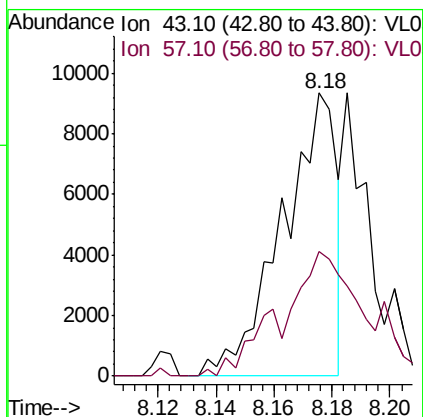
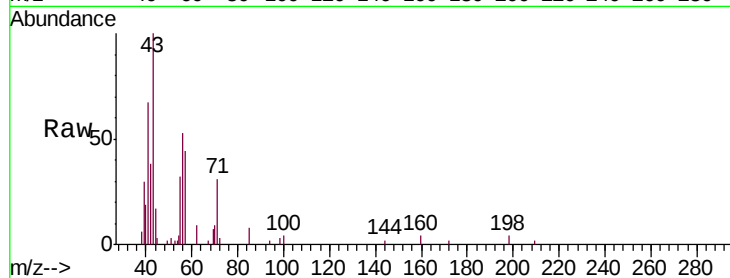




#10
Heptane
Concen: 0.057 ppbv
RT: 8.18 min Scan# 1676
Delta R.T. -0.01 min
Lab File: VL034174.D
Acq: 17 Sep 2019 6:47

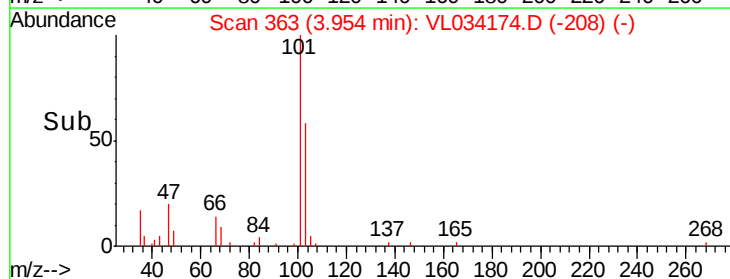
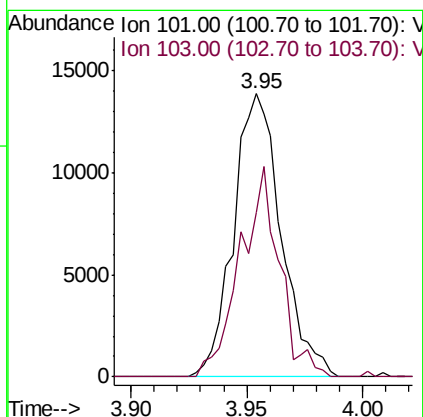
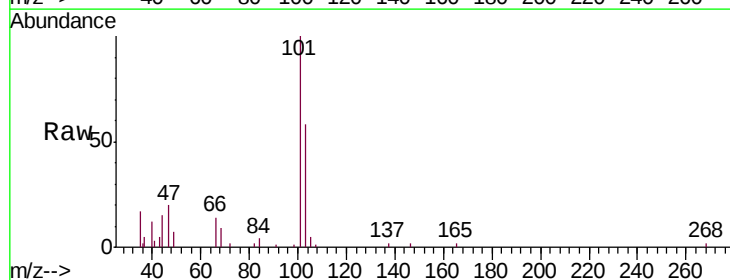
Instrument :
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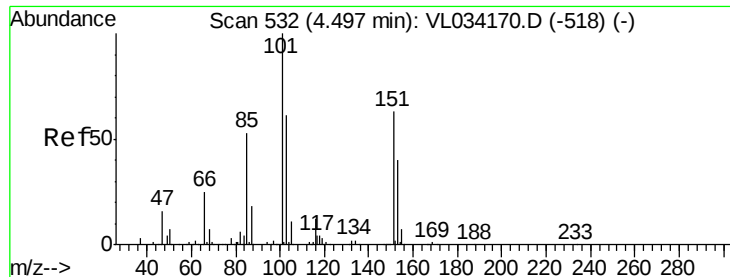
Tgt Ion: 43 Resp: 12062
Ion Ratio Lower Upper
43 100
57 68.2 37.5 56.3#



#11
Trichlorofluoromethane
Concen: 0.112 ppbv
RT: 3.95 min Scan# 363
Delta R.T. -0.00 min
Lab File: VL034174.D
Acq: 17 Sep 2019 6:47

Tgt Ion: 101 Resp: 19802
Ion Ratio Lower Upper
101 100
103 58.1 52.1 78.1





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.064 ppbv

RT: 4.49 min Scan# 531

Delta R.T. -0.00 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Instrument :

MSVOA_L

ClientSampleId :

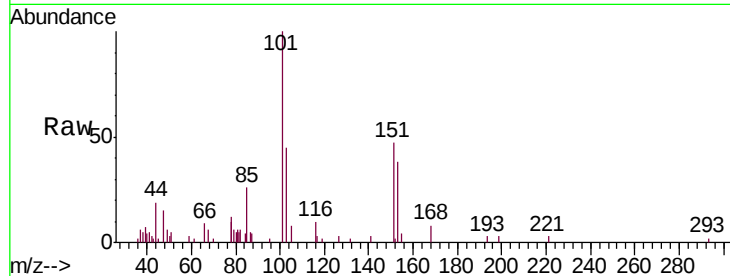
VSTDIC0.1

Tgt Ion:101 Resp: 7512

Ion Ratio Lower Upper

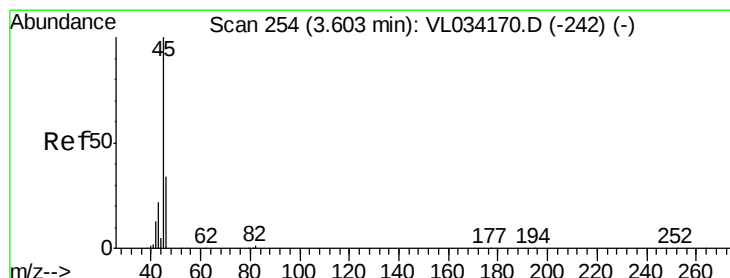
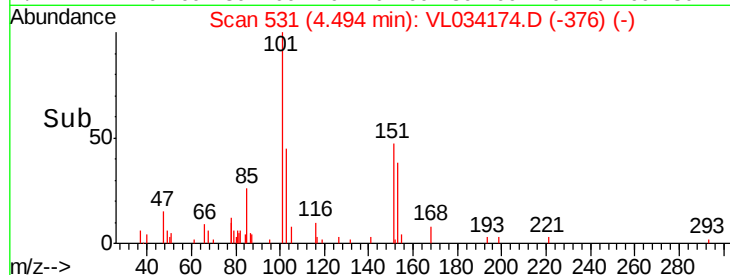
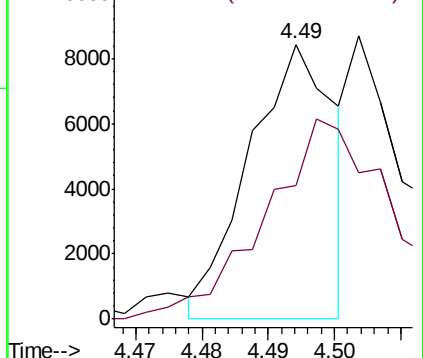
101 100

151 112.5 51.8 77.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 0.042 ppbv

RT: 3.60 min Scan# 254

Delta R.T. 0.00 min

Lab File: VL034174.D

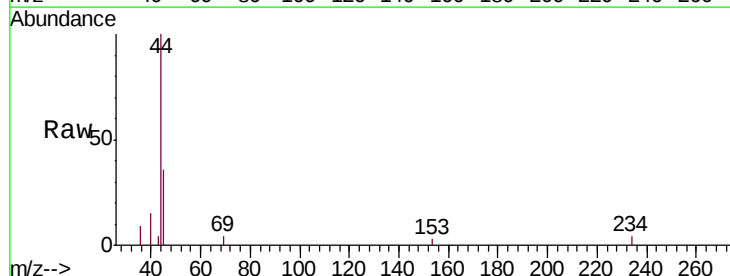
Acq: 17 Sep 2019 6:47

Tgt Ion: 45 Resp: 658

Ion Ratio Lower Upper

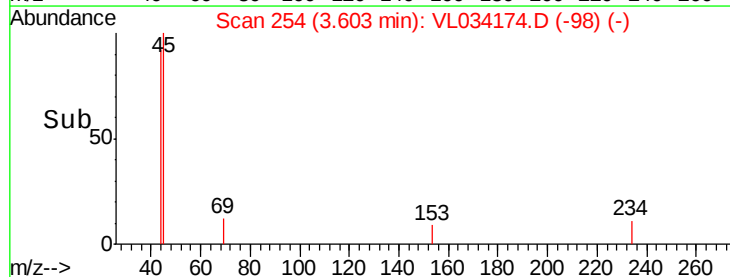
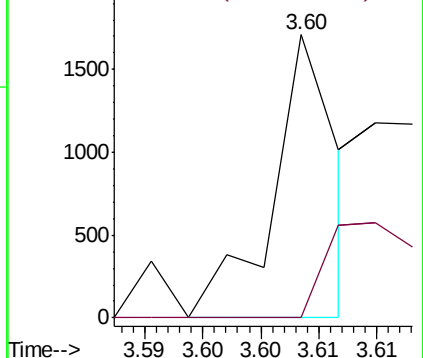
45 100

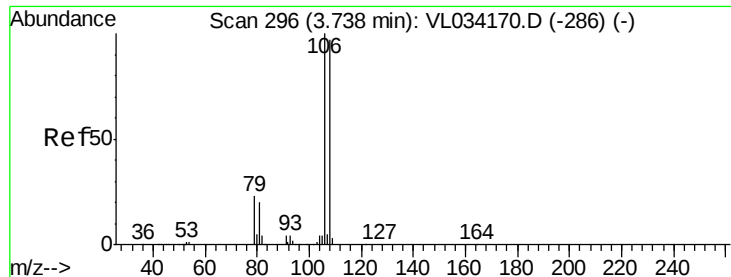
46 0.0 15.5 61.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#14

Bromoethene

Concen: 0.061 ppbv

RT: 3.74 min Scan# 297

Delta R.T. 0.00 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

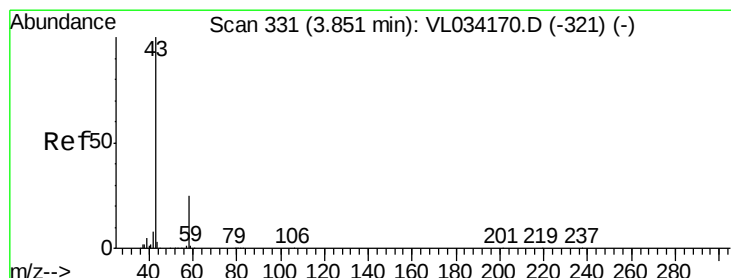
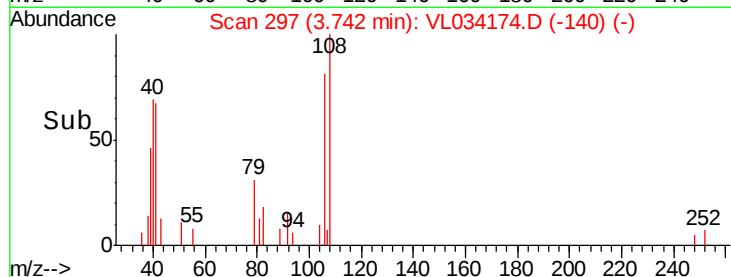
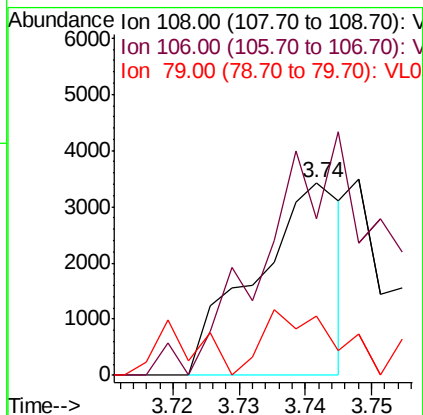
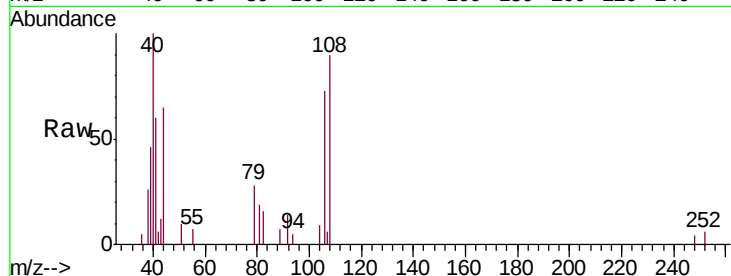
Tgt Ion: 108 Resp: 3094

Ion Ratio Lower Upper

108 100

106 0.0 86.2 129.4#

79 41.8 18.6 27.8#



#15

Acetone

Concen: 0.121 ppbv

RT: 3.87 min Scan# 337

Delta R.T. 0.02 min

Lab File: VL034174.D

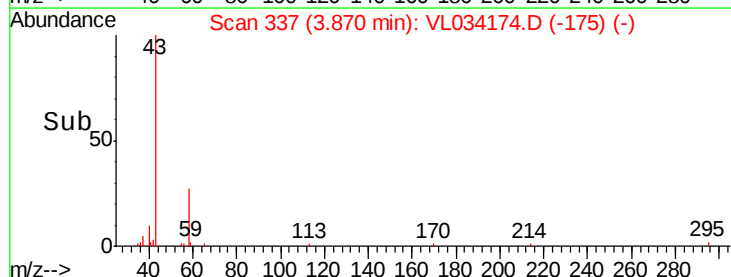
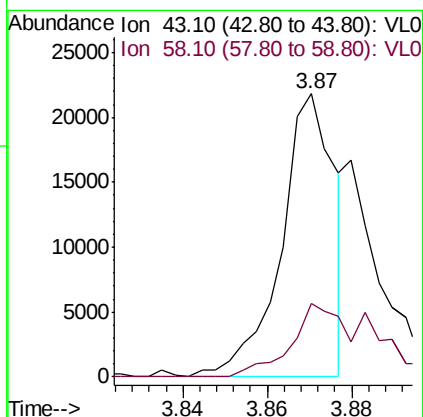
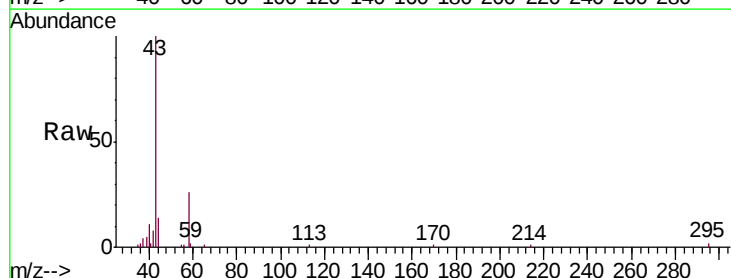
Acq: 17 Sep 2019 6:47

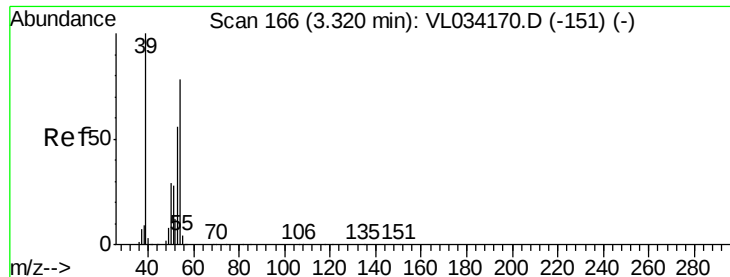
Tgt Ion: 43 Resp: 19163

Ion Ratio Lower Upper

43 100

58 40.6 20.5 30.7#

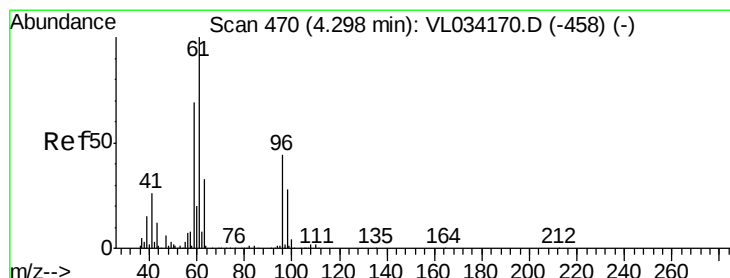
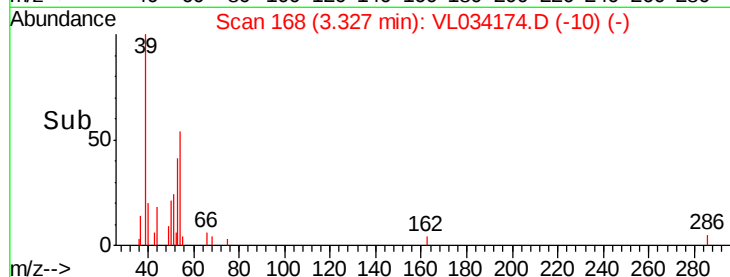
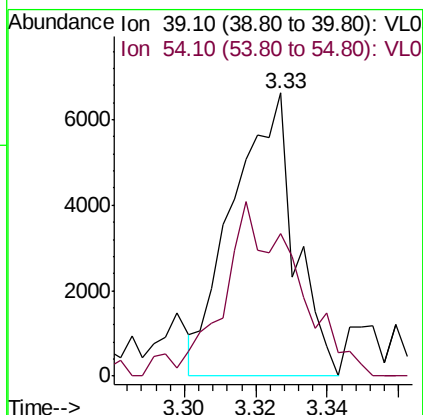
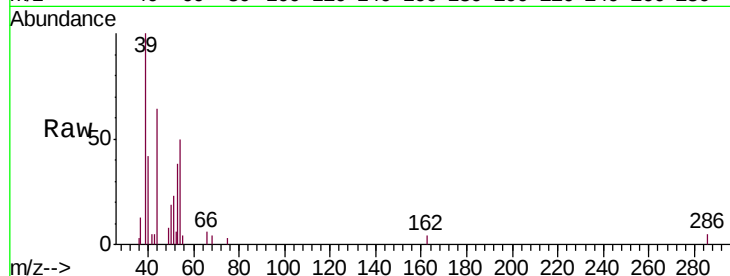




#16
 1,3-Butadiene
 Concen: 0.100 ppbv
 RT: 3.33 min Scan# 168
 Delta R.T. 0.01 min
 Lab File: VL034174.D
 Acq: 17 Sep 2019 6:47

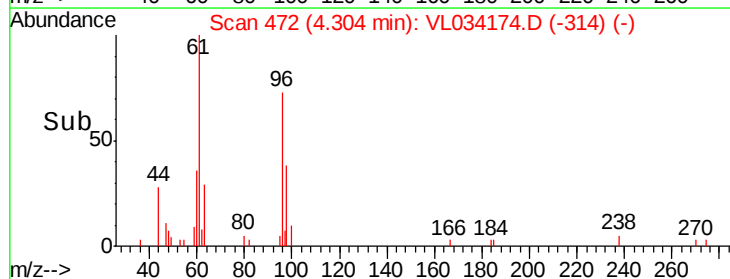
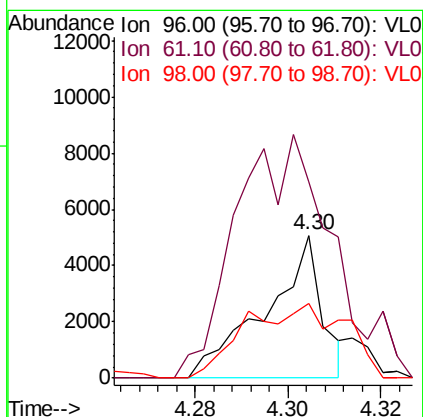
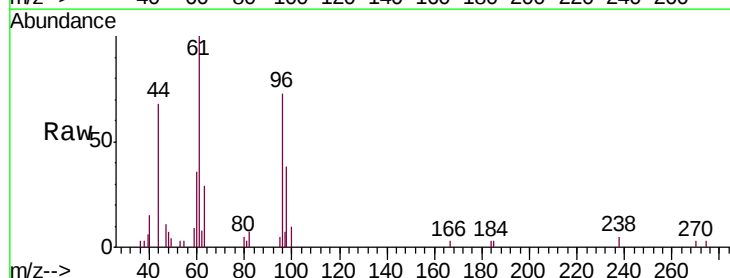
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

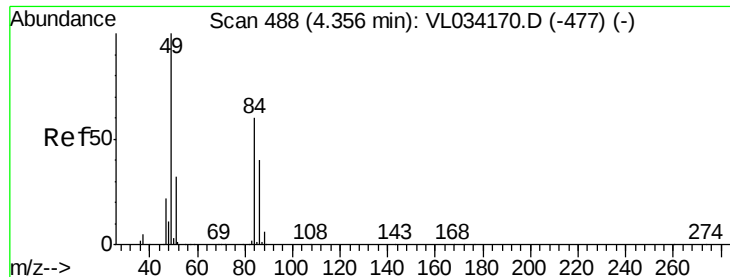
Tgt Ion: 39 Resp: 7961
 Ion Ratio Lower Upper
 39 100
 54 76.3 63.4 95.0



#18
 1,1-Dichloroethene
 Concen: 0.080 ppbv
 RT: 4.30 min Scan# 472
 Delta R.T. 0.01 min
 Lab File: VL034174.D
 Acq: 17 Sep 2019 6:47

Tgt Ion: 96 Resp: 4247
 Ion Ratio Lower Upper
 96 100
 61 120.4 183.3 274.9#
 98 52.2 51.4 77.2

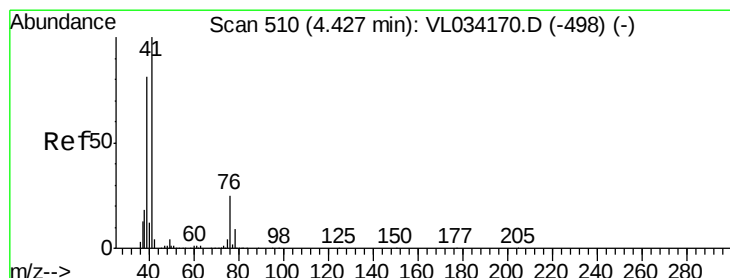
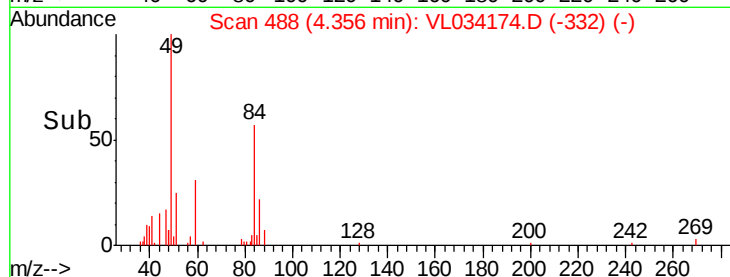
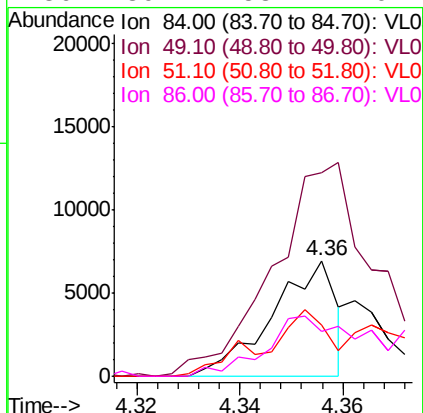
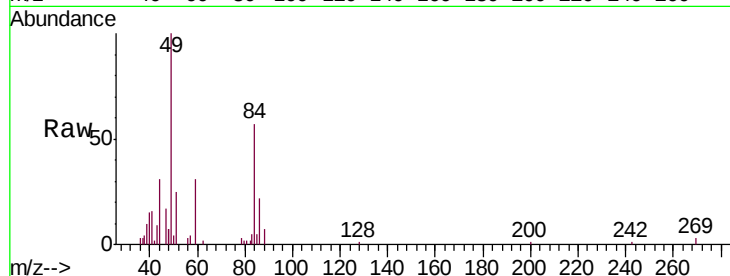




#20
Methylene Chloride
Concen: 0.115 ppbv
RT: 4.36 min Scan# 488
Delta R.T. 0.00 min
Lab File: VL034174.D
Acq: 17 Sep 2019 6:47

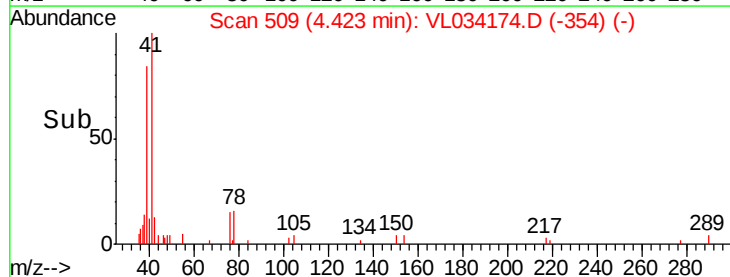
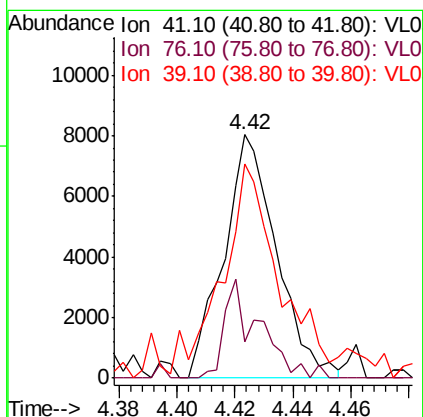
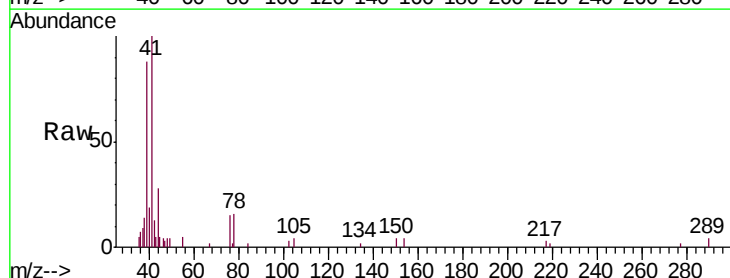
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

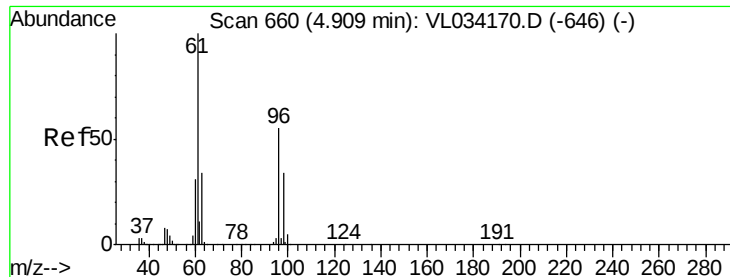
Tgt Ion: 84 Resp: 5964
Ion Ratio Lower Upper
84 100
49 160.8 133.8 200.8
51 41.8 43.6 65.4#
86 39.1 53.1 79.7#



#21
Allyl Chloride
Concen: 0.098 ppbv
RT: 4.42 min Scan# 509
Delta R.T. -0.00 min
Lab File: VL034174.D
Acq: 17 Sep 2019 6:47

Tgt Ion: 41 Resp: 10181
Ion Ratio Lower Upper
41 100
76 26.6 21.8 32.6
39 103.3 64.8 97.2#





#22

trans-1,2-Dichloroethene

Concen: 0.063 ppbv

RT: 4.90 min Scan# 657

Delta R.T. -0.01 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

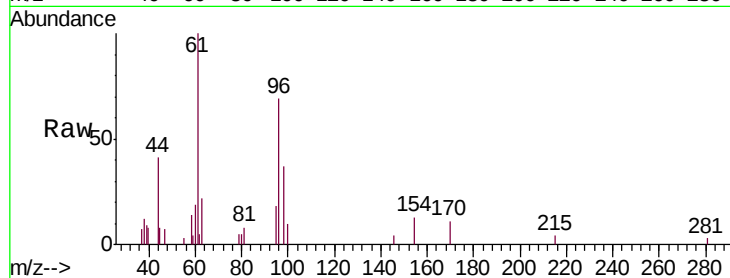
Tgt Ion: 96 Resp: 3387

Ion Ratio Lower Upper

96 100

61 143.9 145.5 218.3#

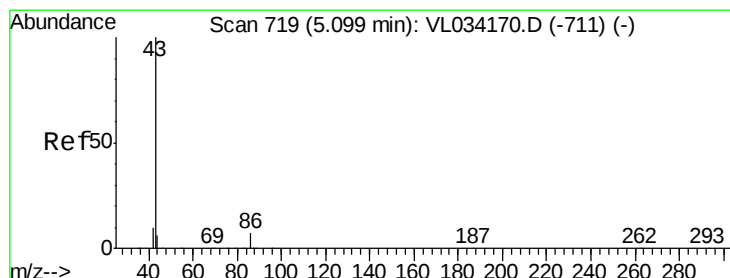
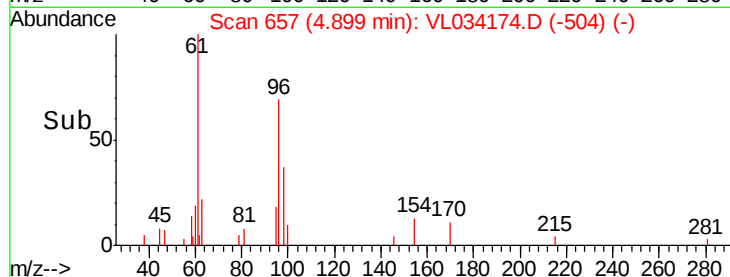
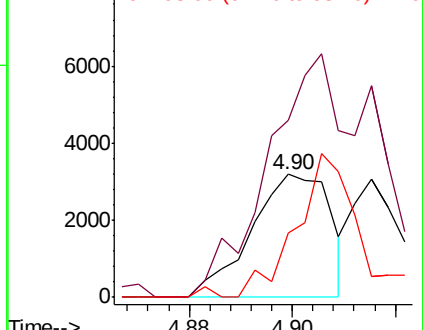
98 52.7 49.9 74.9



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#23

Vinyl Acetate

Concen: 0.090 ppbv

RT: 5.10 min Scan# 721

Delta R.T. 0.01 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Tgt Ion: 43 Resp: 23945

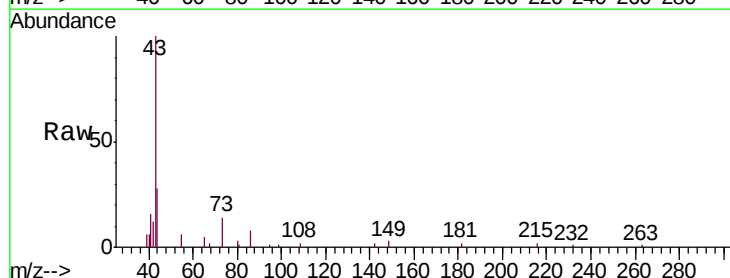
Ion Ratio Lower Upper

43 100

86 7.8 5.1 7.7#

42 10.0 8.6 12.8

44 15.5 4.7 7.1#

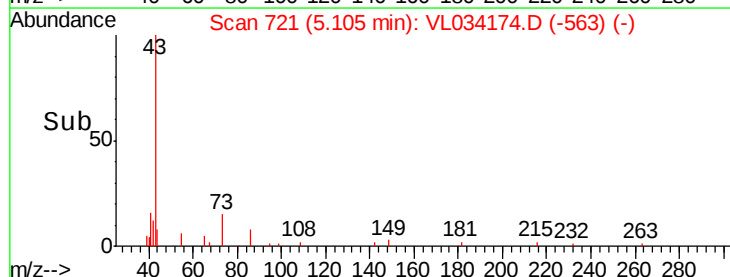
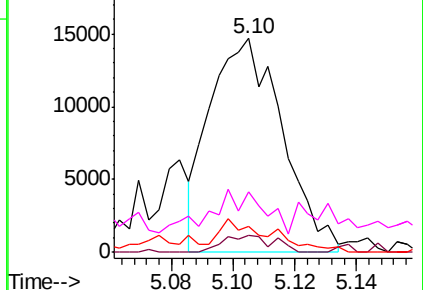


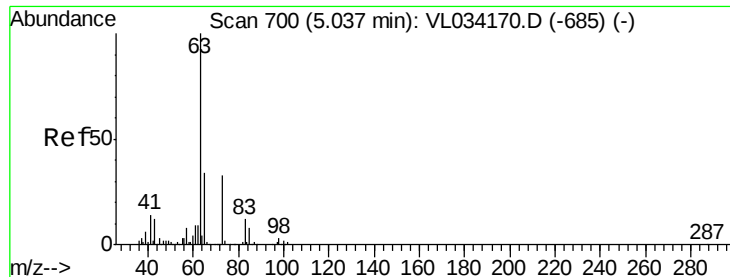
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0





#24

1,1-Dichloroethane

Concen: 0.101 ppbv

RT: 5.04 min Scan# 700

Delta R.T. 0.00 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

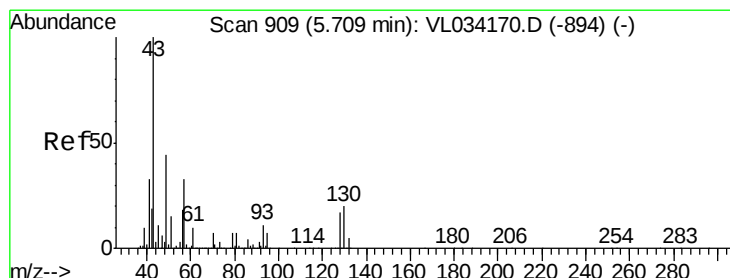
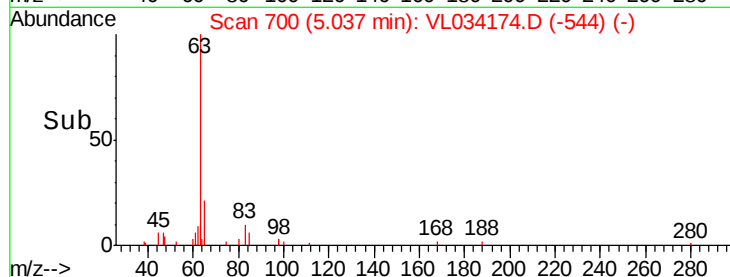
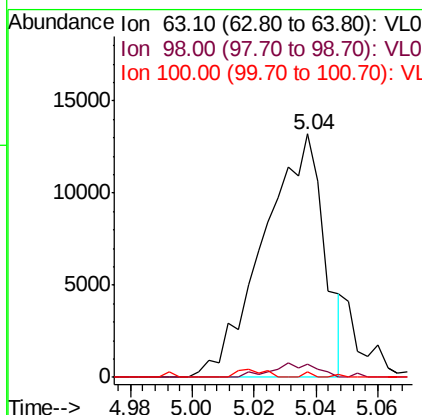
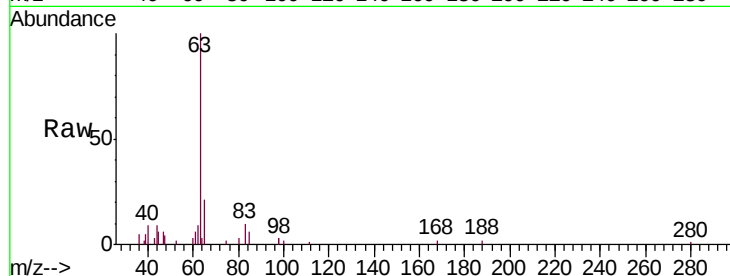
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:	63	Resp:	17952
Ion	Ratio	Lower	Upper
63	100		
98	5.4	1.8	5.3#
100	2.1	1.0	3.0



#25

Ethyl Acetate

Concen: 0.060 ppbv

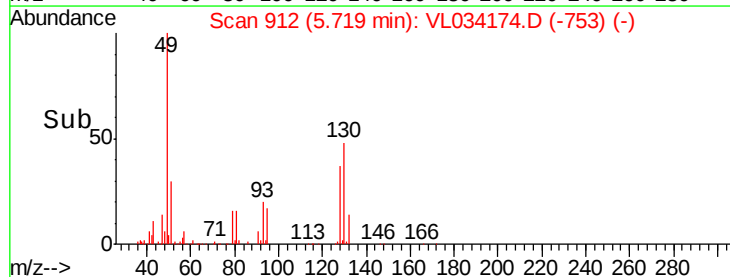
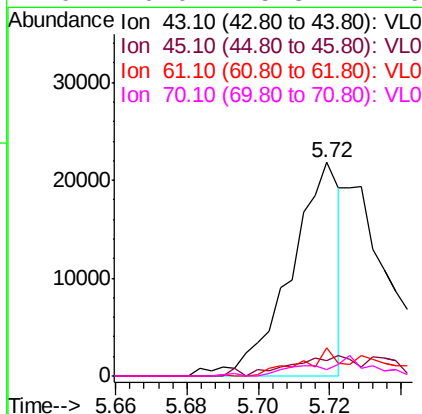
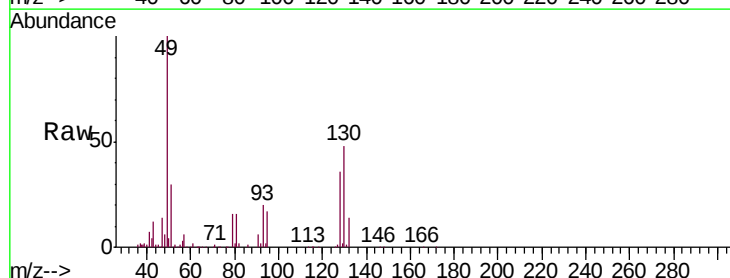
RT: 5.72 min Scan# 912

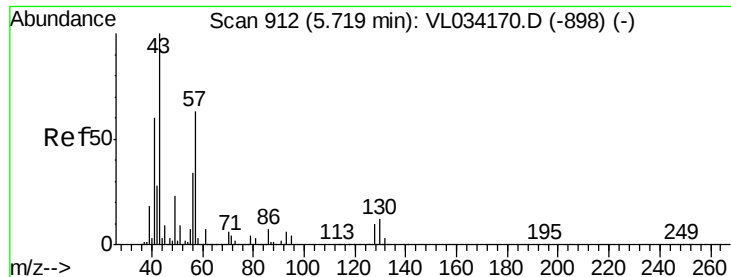
Delta R.T. 0.01 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Tgt Ion:	43	Resp:	20883
Ion	Ratio	Lower	Upper
43	100		
45	1.1	8.4	12.6#
61	19.2	7.2	10.8#
70	0.0	5.3	7.9#





#26

Hexane

Concen: 0.037 ppbv

RT: 5.71 min Scan# 910

Delta R.T. -0.01 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 57 Resp: 5644

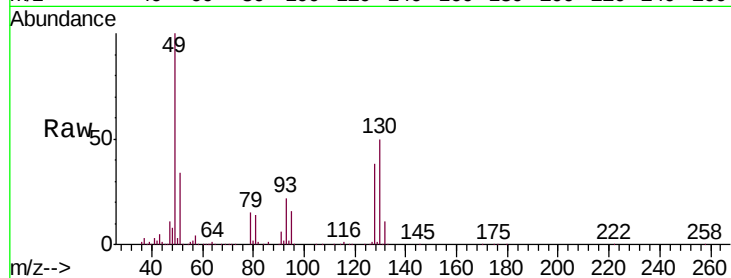
Ion Ratio Lower Upper

57 100

41 0.0 78.5 117.7#

43 0.0 189.5 284.3#

56 0.0 43.2 64.8#

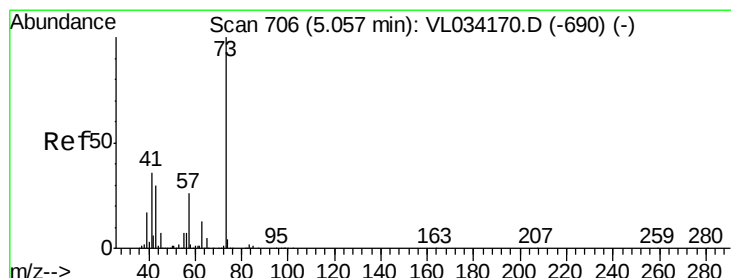
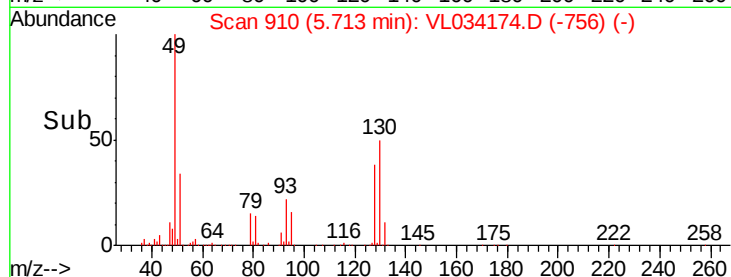
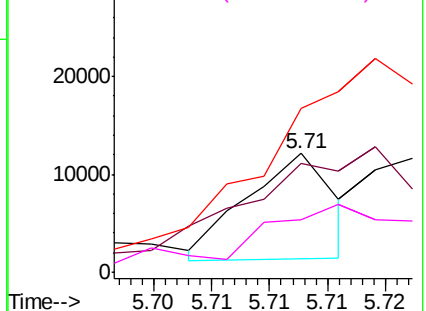


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#28

Methyl tert-Butyl Ether

Concen: 0.085 ppbv

RT: 5.08 min Scan# 713

Delta R.T. 0.02 min

Lab File: VL034174.D

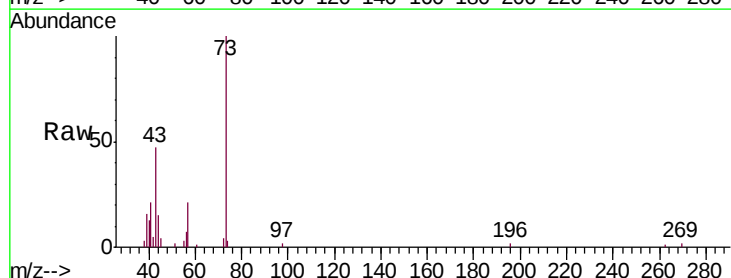
Acq: 17 Sep 2019 6:47

Tgt Ion: 73 Resp: 19024

Ion Ratio Lower Upper

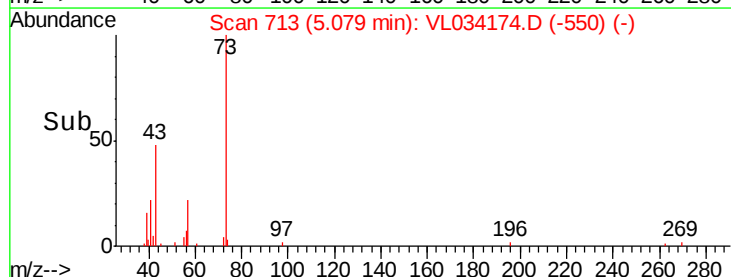
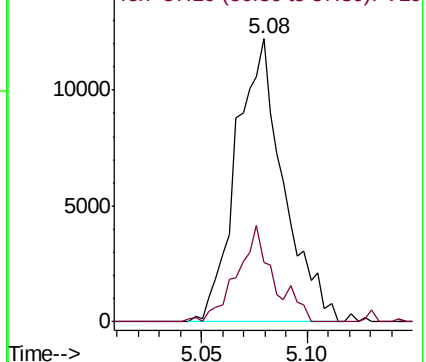
73 100

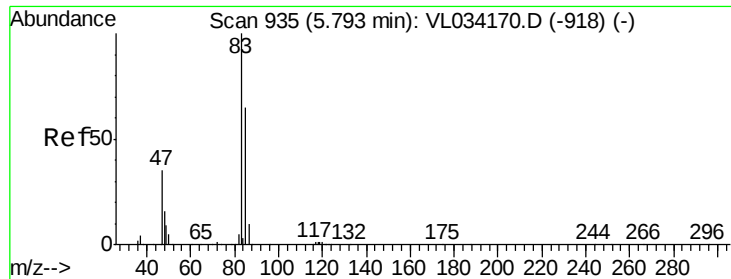
57 26.5 20.2 30.2



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 0.047 ppbv

RT: 5.79 min Scan# 933

Delta R.T. -0.01 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Instrument :

MSVOA_L

ClientSampleId :

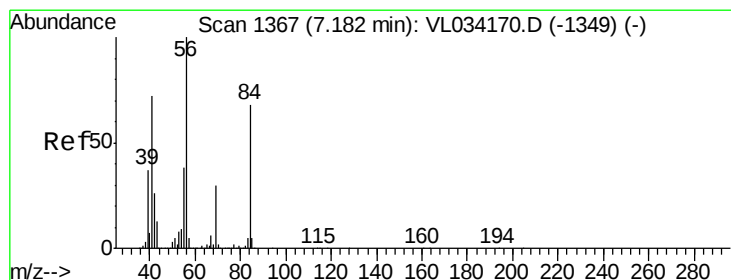
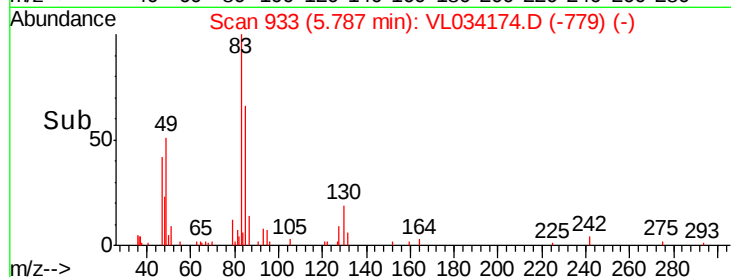
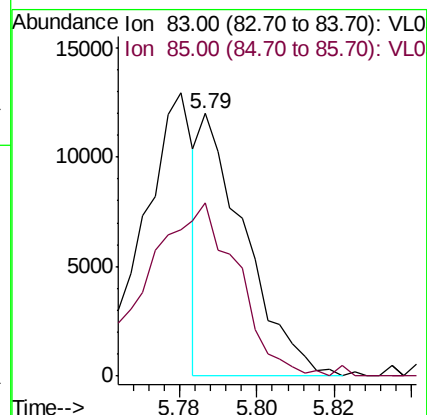
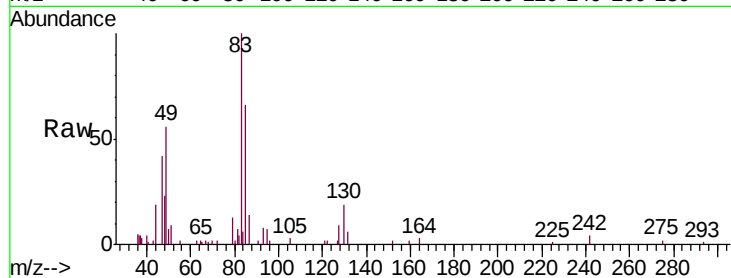
VSTDIC0.1

Tgt Ion: 83 Resp: 9704

Ion Ratio Lower Upper

83 100

85 62.1 52.3 78.5



#30

Cyclohexane

Concen: 0.039 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. 0.00 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

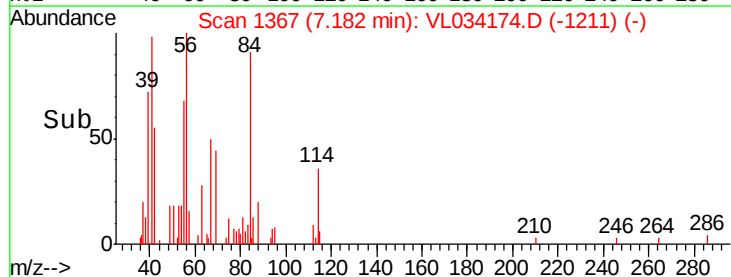
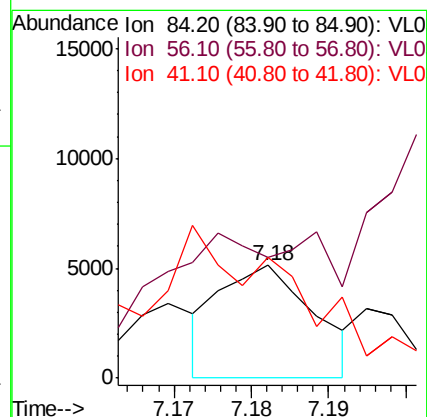
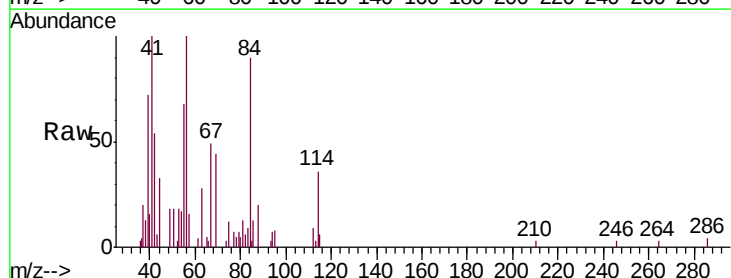
Tgt Ion: 84 Resp: 4330

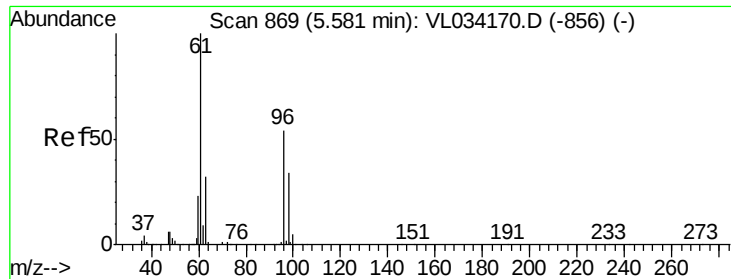
Ion Ratio Lower Upper

84 100

56 0.0 126.2 189.2#

41 0.0 85.8 128.8#

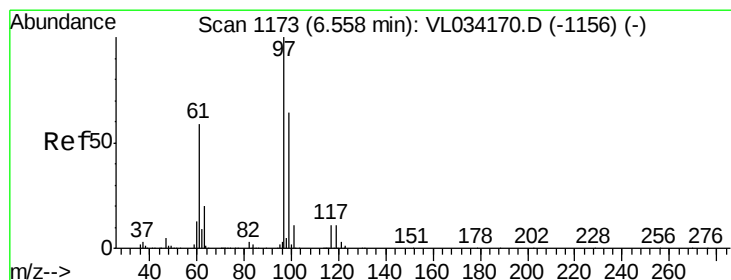
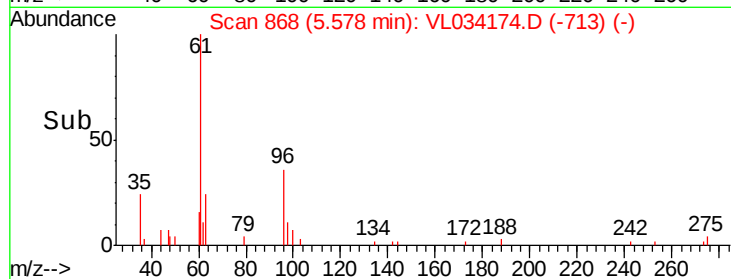
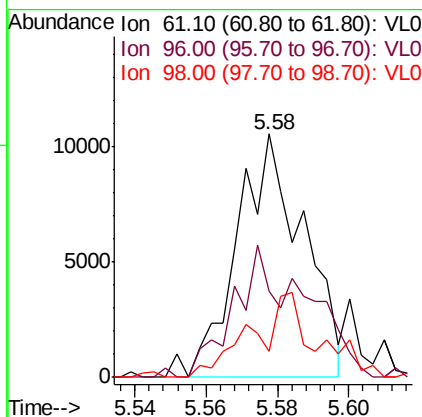
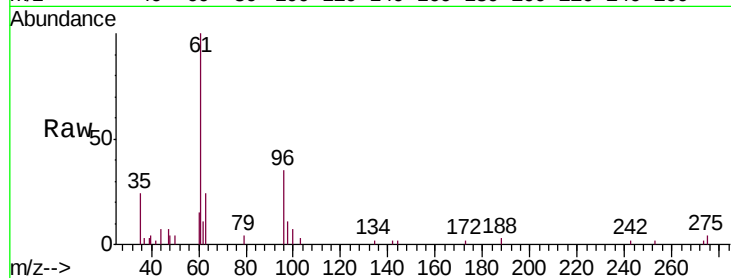




#31
 cis-1,2-Dichloroethene
 Concen: 0.092 ppbv
 RT: 5.58 min Scan# 868
 Delta R.T. -0.00 min
 Lab File: VL034174.D
 Acq: 17 Sep 2019 6:47

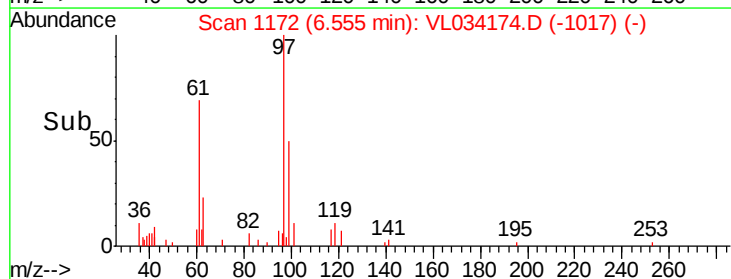
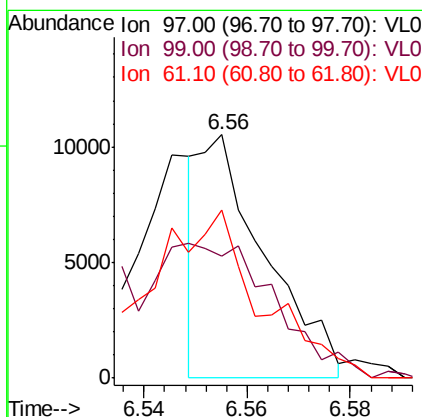
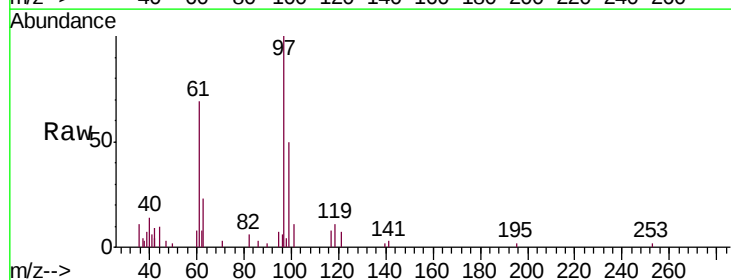
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

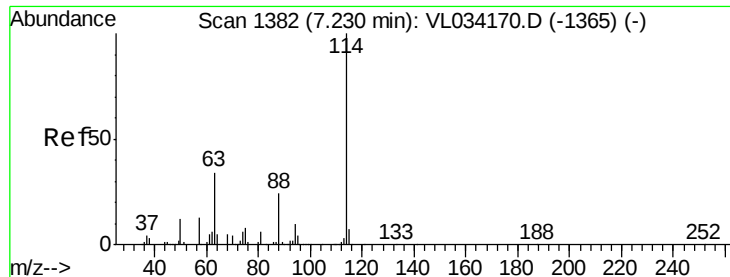
Tgt Ion	Ratio	Lower	Upper
61	100		
96	35.2	43.0	64.4#
98	10.9	27.2	40.8#



#32
 1,1,1-Trichloroethane
 Concen: 0.047 ppbv
 RT: 6.56 min Scan# 1172
 Delta R.T. -0.00 min
 Lab File: VL034174.D
 Acq: 17 Sep 2019 6:47

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.4	77.2#
61	126.4	48.4	72.6#

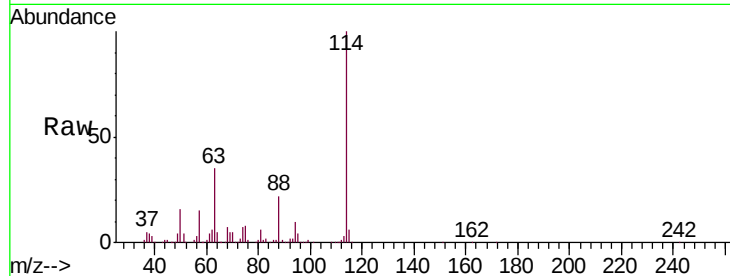




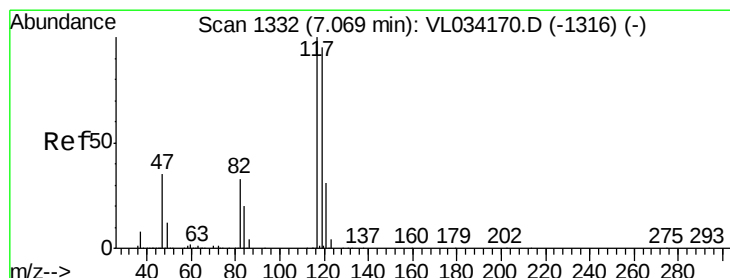
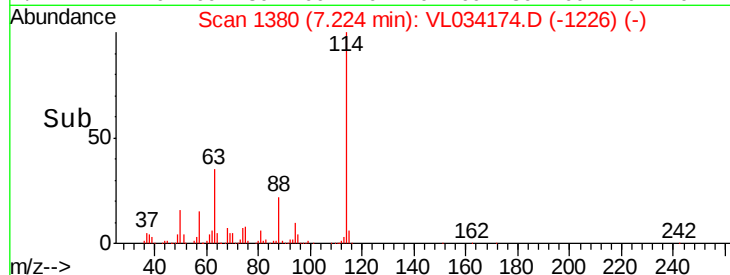
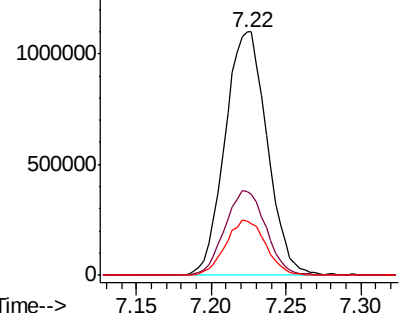
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22 min Scan# 1380
 Delta R.T. -0.01 min
 Lab File: VL034174.D
 Acq: 17 Sep 2019 6:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tgt Ion:114 Resp: 2157617
 Ion Ratio Lower Upper
 114 100
 63 34.1 27.8 41.6
 88 21.6 17.1 25.7

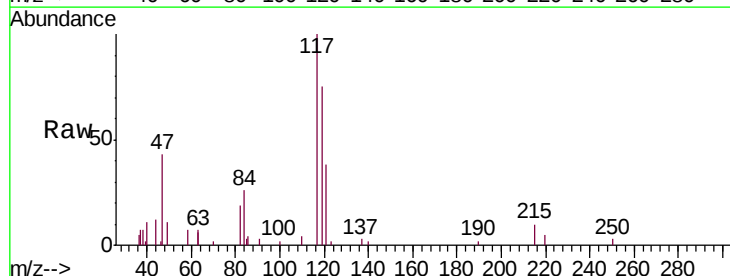


Abundance Ion 114.10 (113.80 to 114.80): V
 1500000 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

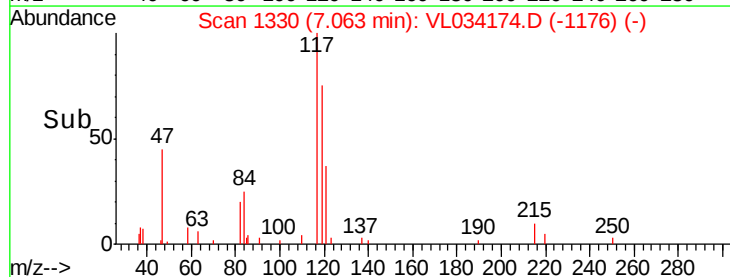
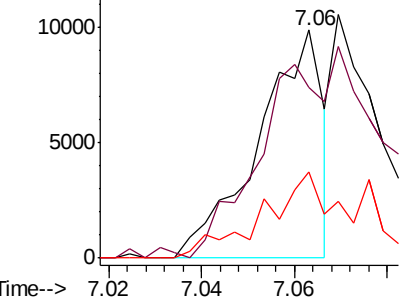


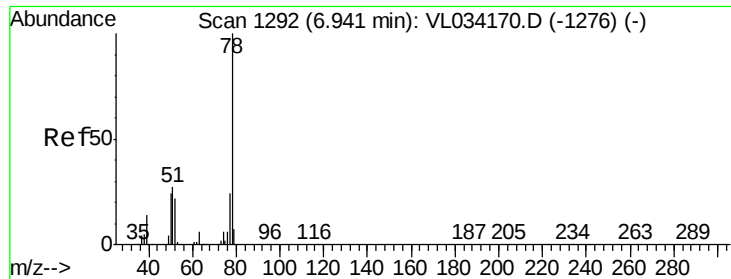
#35
 Carbon Tetrachloride
 Concen: 0.056 ppbv
 RT: 7.06 min Scan# 1330
 Delta R.T. -0.01 min
 Lab File: VL034174.D
 Acq: 17 Sep 2019 6:47

Tgt Ion:117 Resp: 9525
 Ion Ratio Lower Upper
 117 100
 119 72.4 75.8 113.6#
 121 38.1 25.0 37.6#



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: 0.065 ppbv

RT: 6.93 min Scan# 1290

Delta R.T. -0.01 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

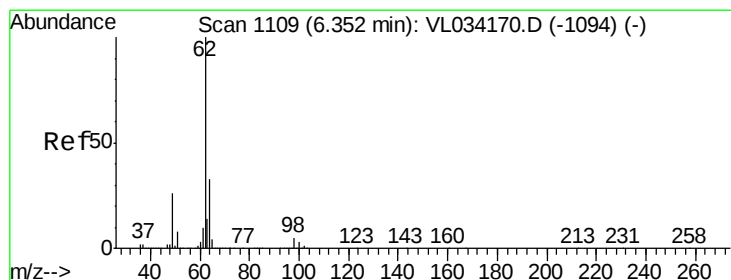
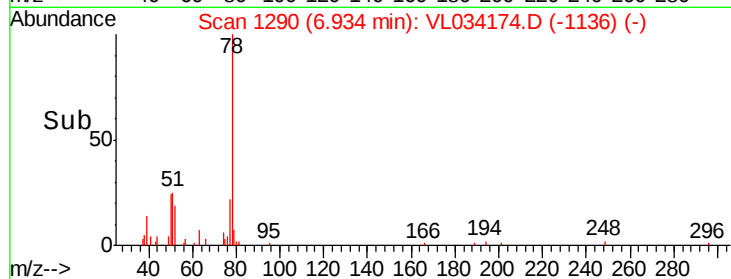
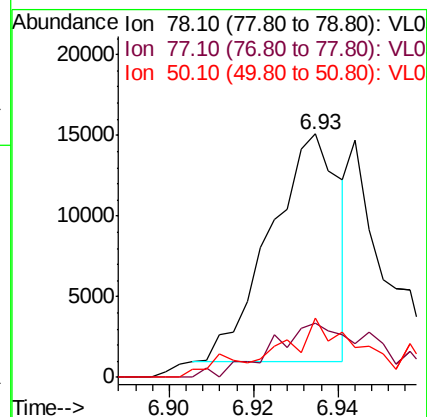
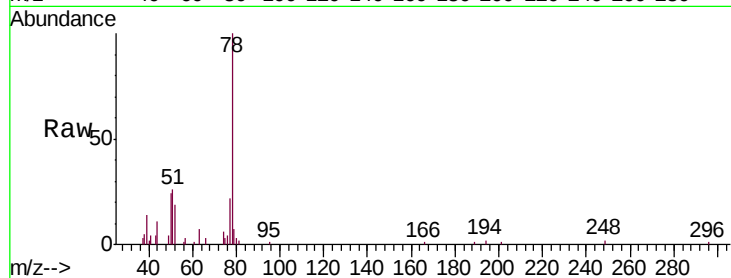
Tgt Ion: 78 Resp: 16032

Ion Ratio Lower Upper

78 100

77 23.8 19.0 28.4

50 19.0 18.9 28.3



#37

1,2-Dichloroethane

Concen: 0.048 ppbv

RT: 6.35 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VL034174.D

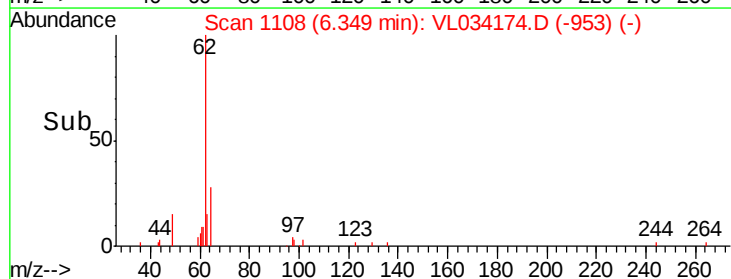
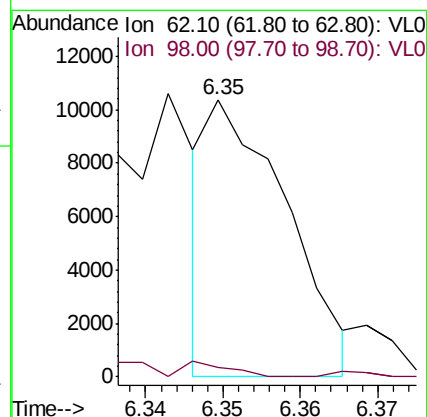
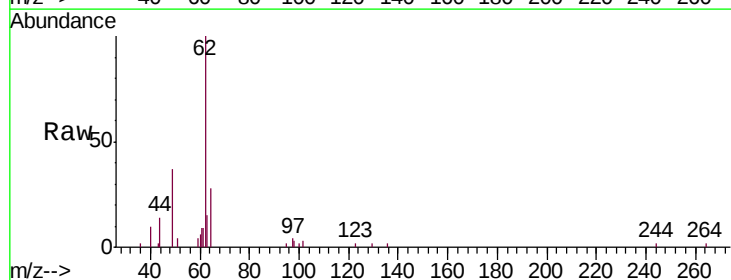
Acq: 17 Sep 2019 6:47

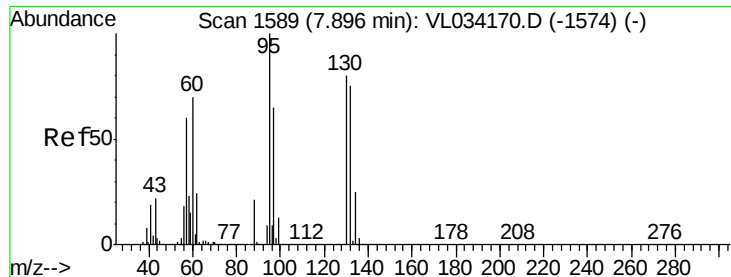
Tgt Ion: 62 Resp: 7418

Ion Ratio Lower Upper

62 100

98 7.4 3.8 5.8#





#38

Trichloroethene

Concen: 0.065 ppbv

RT: 7.89 min Scan# 1587

Delta R.T. -0.01 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

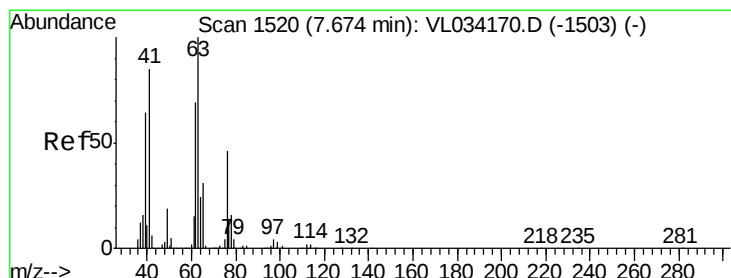
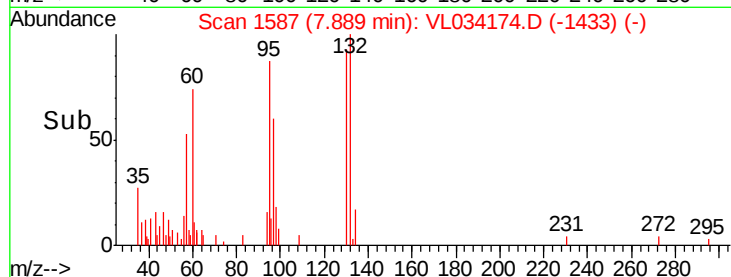
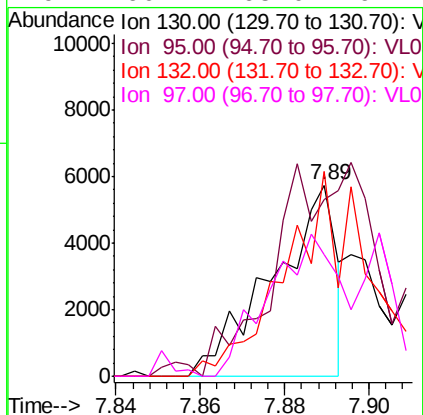
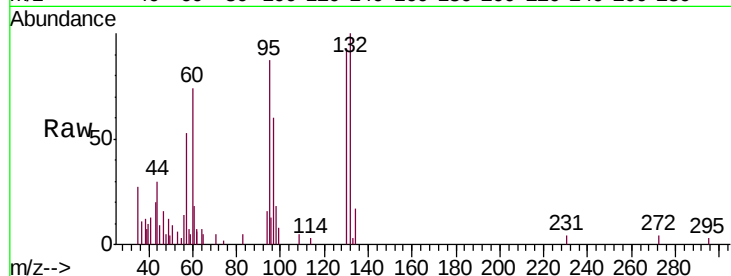
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:	130	Resp:	5995
Ion	Ratio	Lower	Upper
130	100		
95	100.5	99.8	149.6
132	107.0	75.2	112.8
97	60.4	65.0	97.4#



#39

1,2-Dichloropropane

Concen: 6.877 ppbv

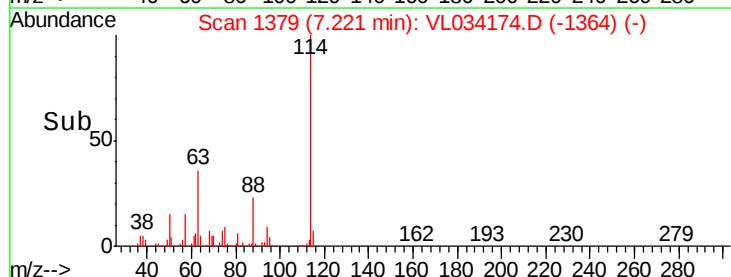
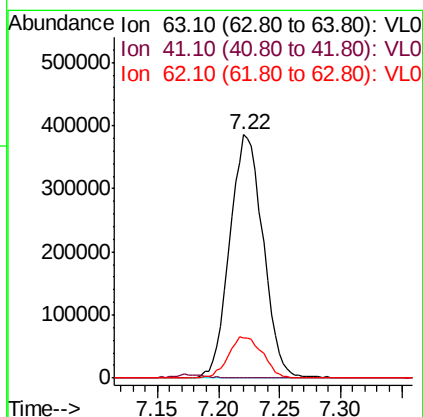
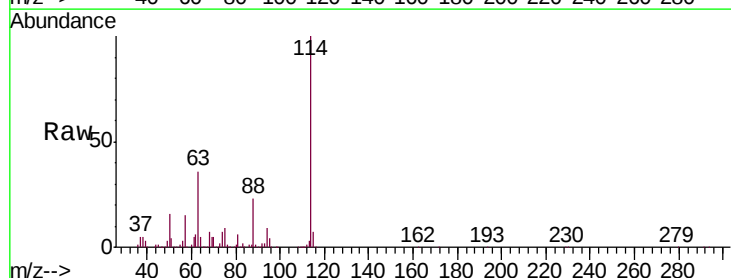
RT: 7.22 min Scan# 1379

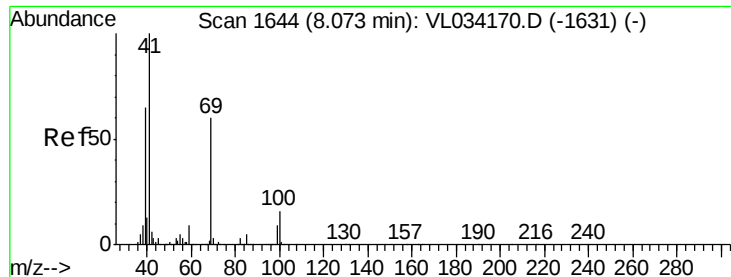
Delta R.T. -0.45 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Tgt Ion:	63	Resp:	732179
Ion	Ratio	Lower	Upper
63	100		
41	0.0	68.4	102.6#
62	16.3	55.4	83.2#





#43

Methyl Methacrylate

Concen: 0.050 ppbv

RT: 8.08 min Scan# 1645

Delta R.T. 0.00 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

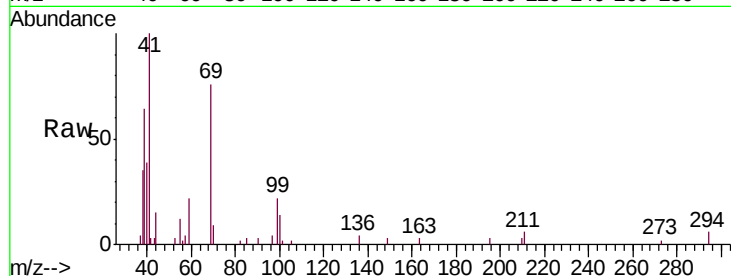
Tgt Ion: 69 Resp: 5055

Ion Ratio Lower Upper

69 100

41 311.5 140.4 210.6#

100 0.0 21.9 32.9#

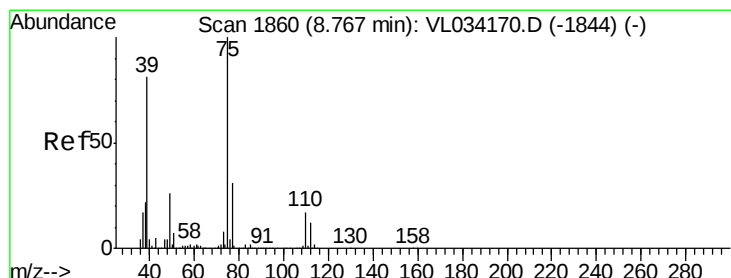
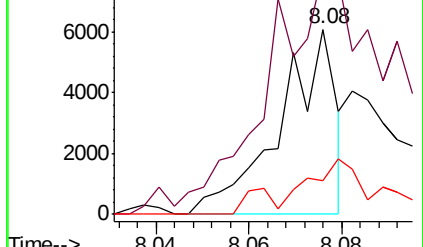
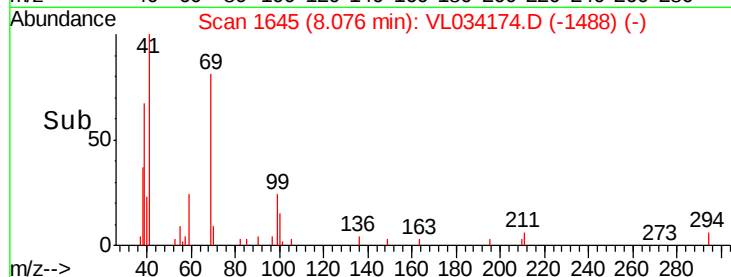


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 0.039 ppbv

RT: 8.76 min Scan# 1859

Delta R.T. -0.00 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

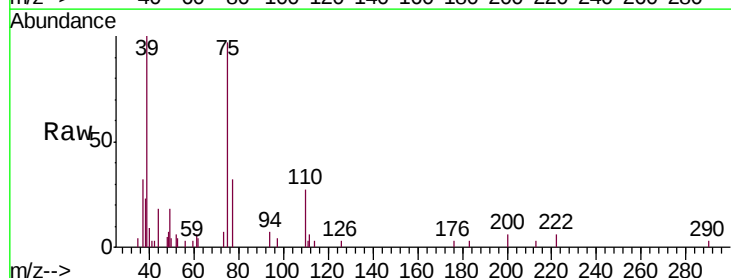
Tgt Ion: 75 Resp: 5719

Ion Ratio Lower Upper

75 100

39 62.1 65.0 97.4#

77 30.3 24.5 36.7

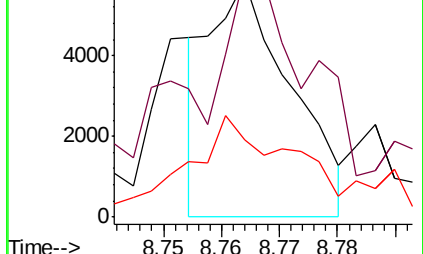
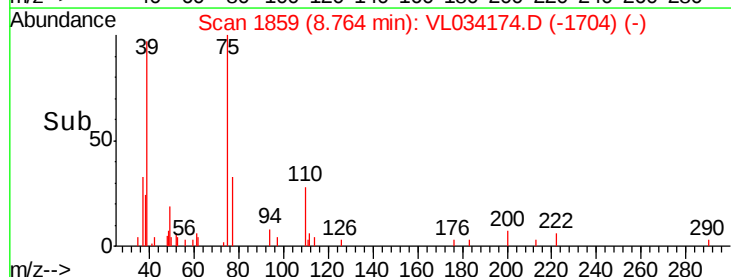


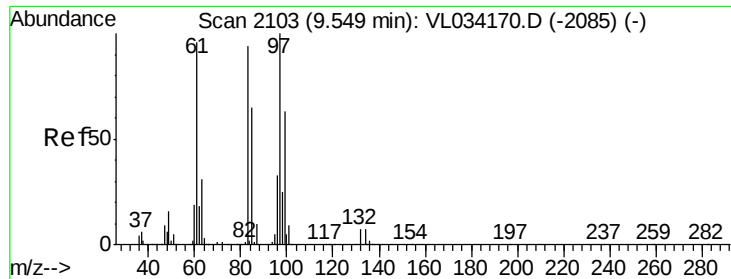
Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

Time-->





#47

1,1,2-Trichloroethane

Concen: 0.054 ppbv

RT: 9.54 min Scan# 2100

Delta R.T. -0.01 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 97 Resp: 5167

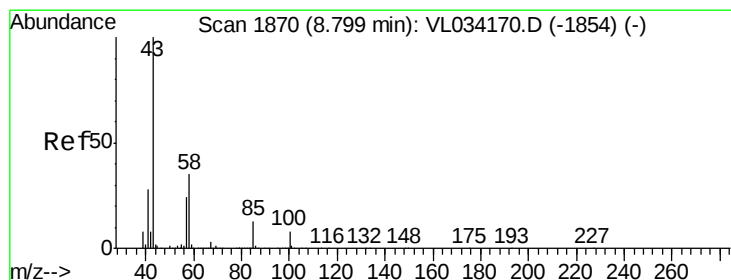
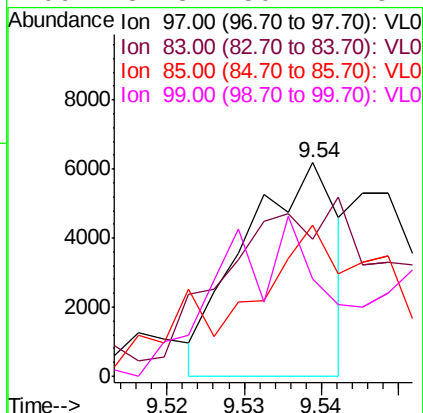
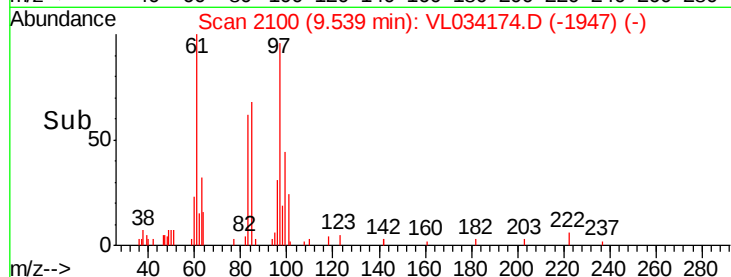
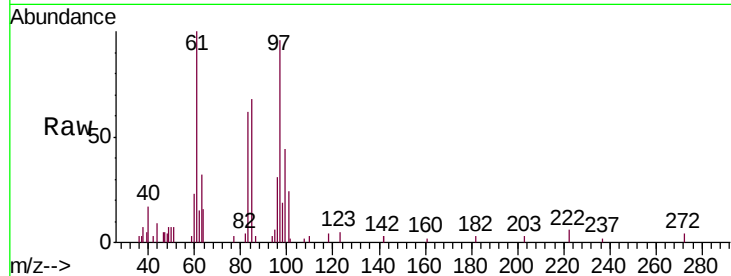
Ion Ratio Lower Upper

97 100

83 30.8 75.3 112.9#

85 35.4 52.1 78.1#

99 31.3 50.2 75.2#



#50

4-Methyl-2-Pentanone

Concen: 0.041 ppbv

RT: 8.83 min Scan# 1879

Delta R.T. 0.03 min

Lab File: VL034174.D

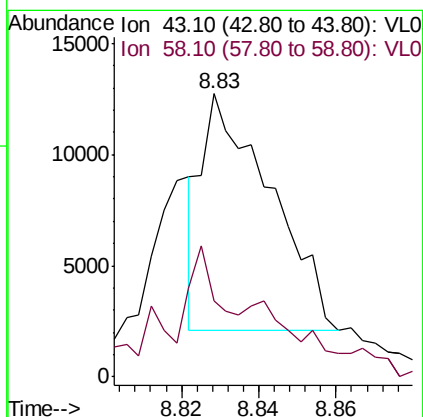
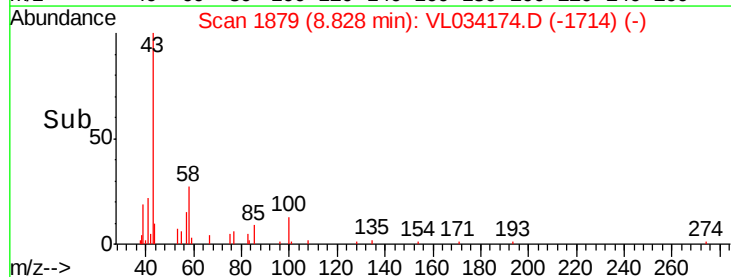
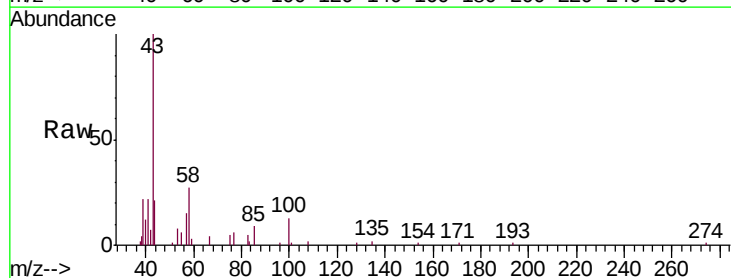
Acq: 17 Sep 2019 6:47

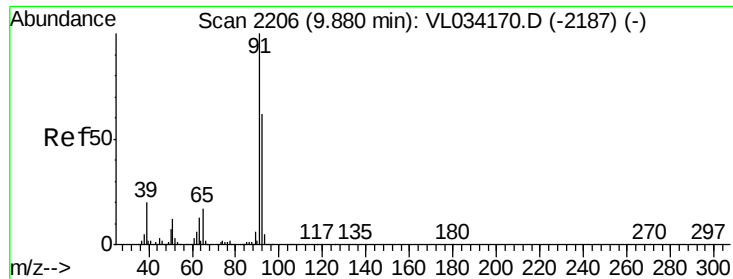
Tgt Ion: 43 Resp: 13092

Ion Ratio Lower Upper

43 100

58 77.6 27.6 41.4#





#53

Toluene

Concen: 0.048 ppbv

RT: 9.87 min Scan# 2203

Delta R.T. -0.01 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Instrument :

MSVOA_L

ClientSampleId :

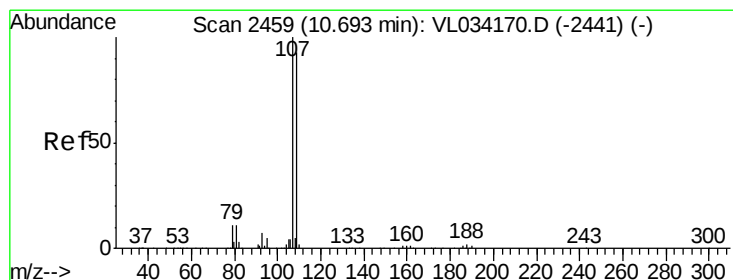
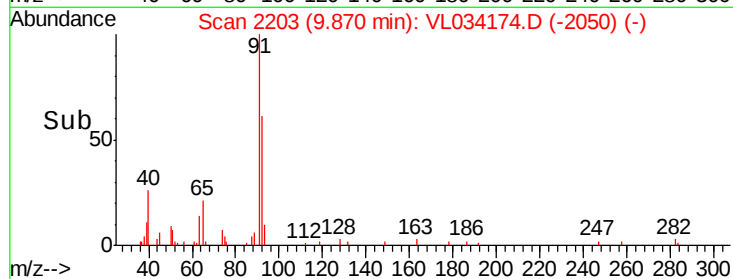
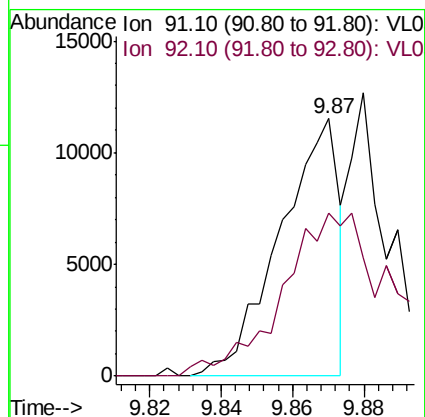
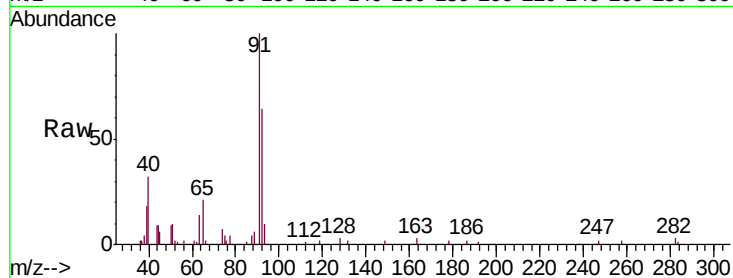
VSTDIC0.1

Tgt Ion: 91 Resp: 13168

Ion Ratio Lower Upper

91 100

92 114.3 49.0 73.6#



#54

1,2-Dibromoethane

Concen: 0.059 ppbv

RT: 10.68 min Scan# 2455

Delta R.T. -0.01 min

Lab File: VL034174.D

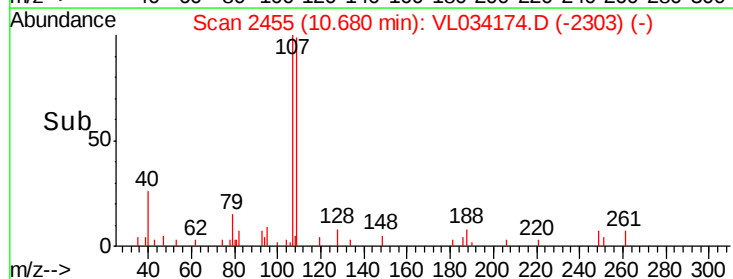
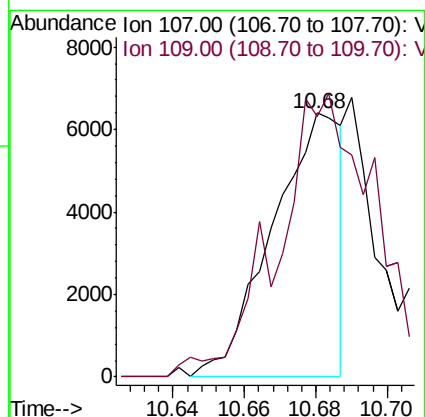
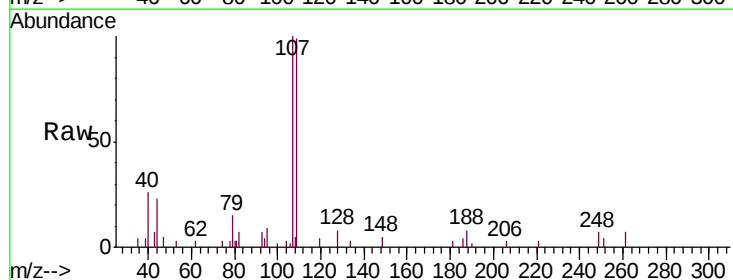
Acq: 17 Sep 2019 6:47

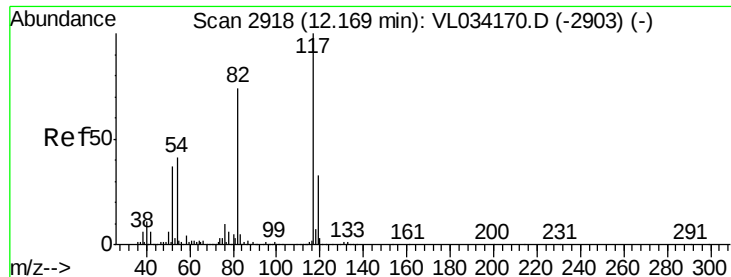
Tgt Ion: 107 Resp: 8527

Ion Ratio Lower Upper

107 100

109 91.0 74.5 111.7

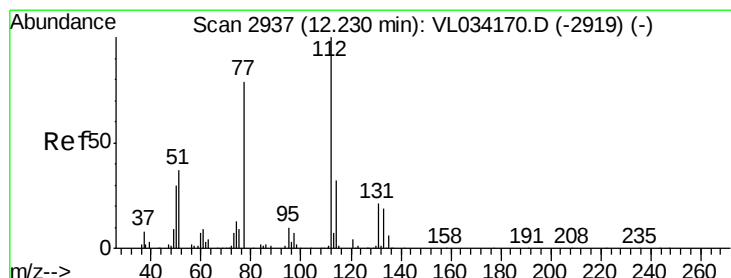
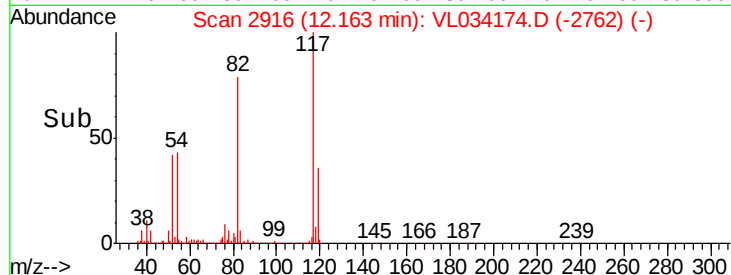
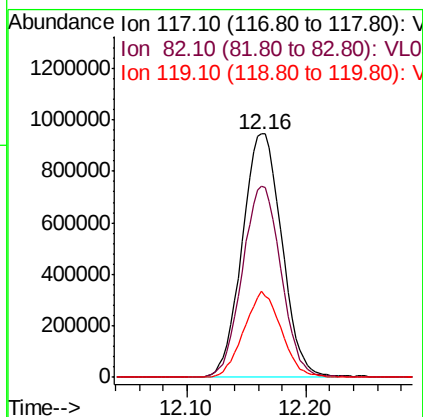
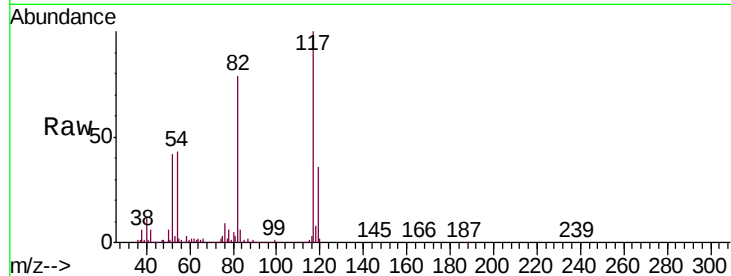




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.16 min Scan# 2916
Delta R.T. -0.01 min
Lab File: VL034174.D
Acq: 17 Sep 2019 6:47

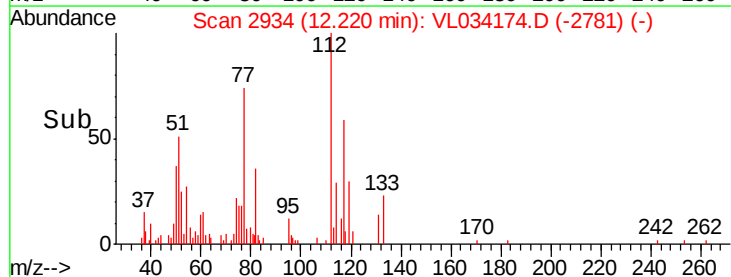
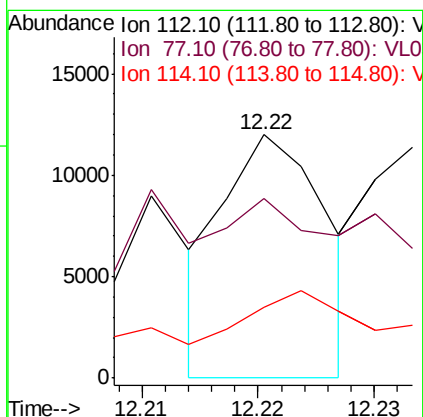
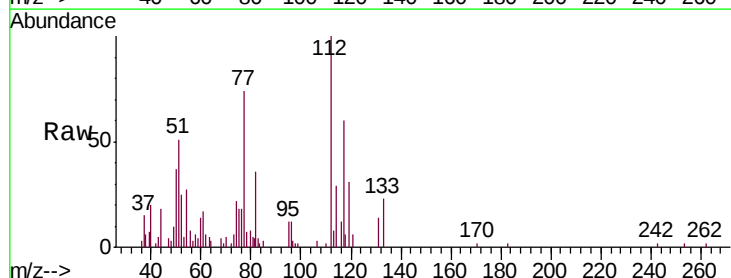
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

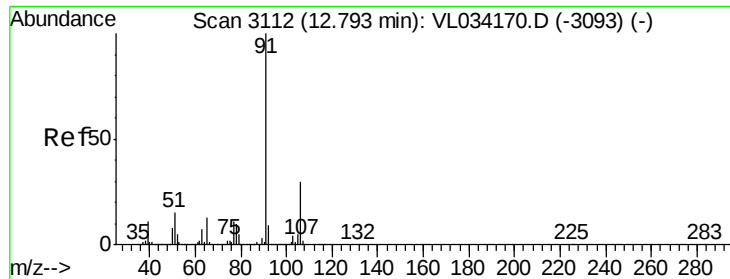
Tgt Ion:117 Resp: 2179976
Ion Ratio Lower Upper
117 100
82 77.2 58.2 87.4
119 33.4 23.7 35.5



#57
Chlorobenzene
Concen: 0.039 ppbv
RT: 12.22 min Scan# 2934
Delta R.T. -0.01 min
Lab File: VL034174.D
Acq: 17 Sep 2019 6:47

Tgt Ion:112 Resp: 7390
Ion Ratio Lower Upper
112 100
77 38.2 64.3 96.5#
114 32.4 28.9 35.3





#58

Ethyl Benzene

Concen: 0.049 ppbv

RT: 13.04 min Scan# 3190

Delta R.T. 0.25 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Instrument :

MSVOA_L

ClientSampleId :

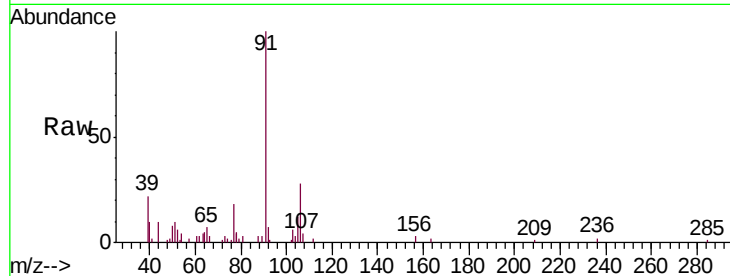
VSTDIC0.1

Tgt Ion: 91 Resp: 17447

Ion Ratio Lower Upper

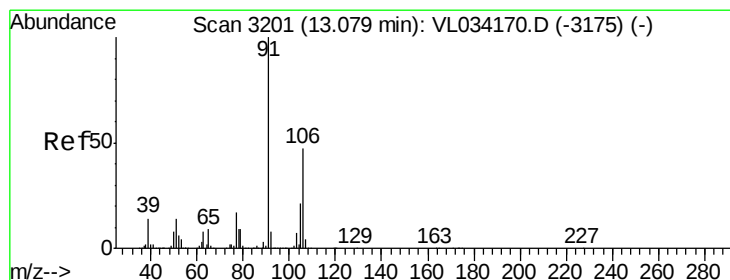
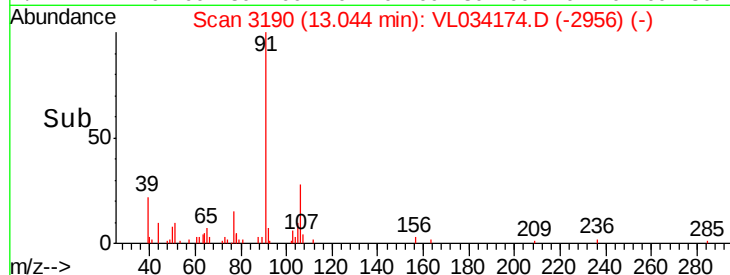
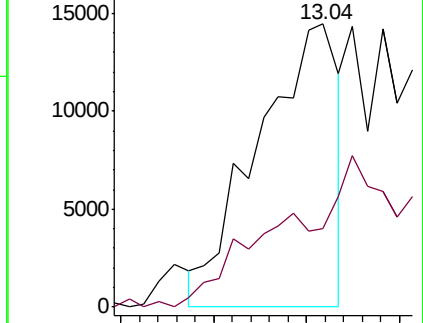
91 100

106 25.8 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.055 ppbv

RT: 13.08 min Scan# 3200

Delta R.T. -0.00 min

Lab File: VL034174.D

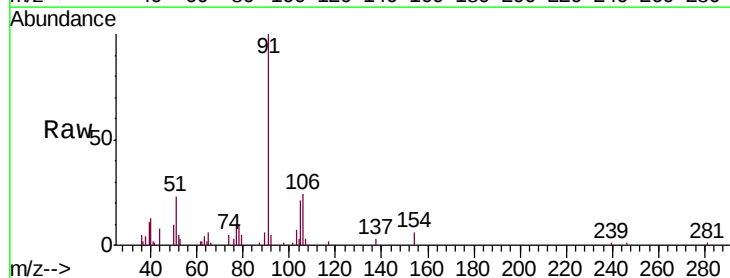
Acq: 17 Sep 2019 6:47

Tgt Ion: 91 Resp: 15986

Ion Ratio Lower Upper

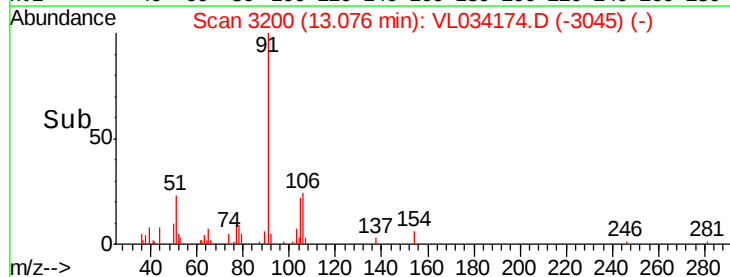
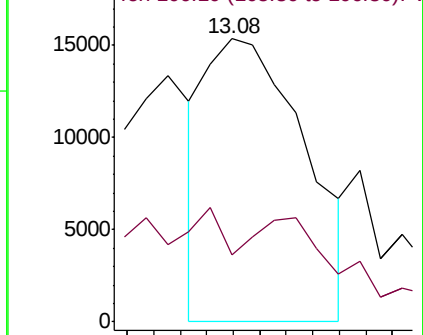
91 100

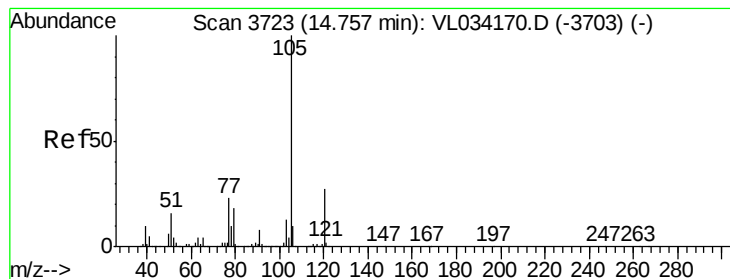
106 0.0 35.5 53.3#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#62

Isopropylbenzene

Concen: 0.059 ppbv

RT: 14.75 min Scan# 3720

Delta R.T. -0.01 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Instrument :

MSVOA_L

ClientSampleId :

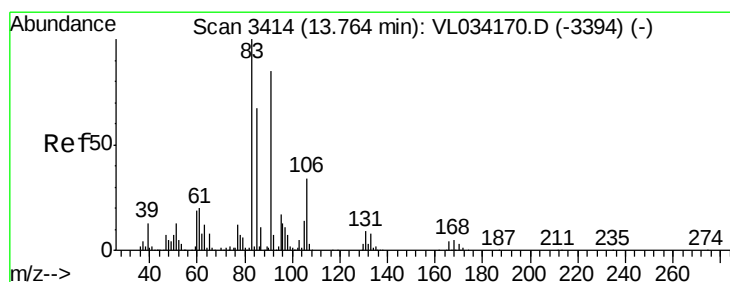
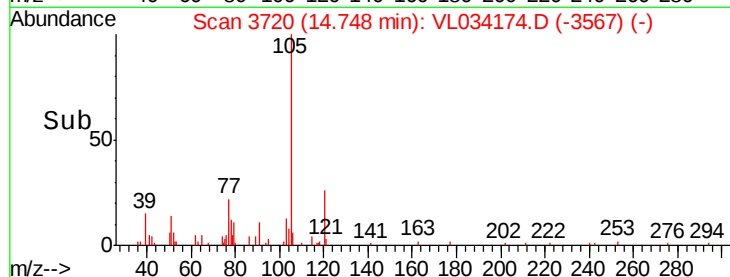
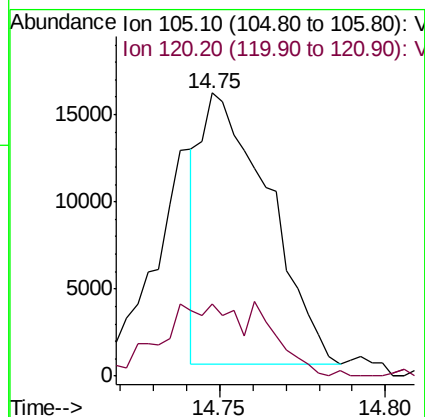
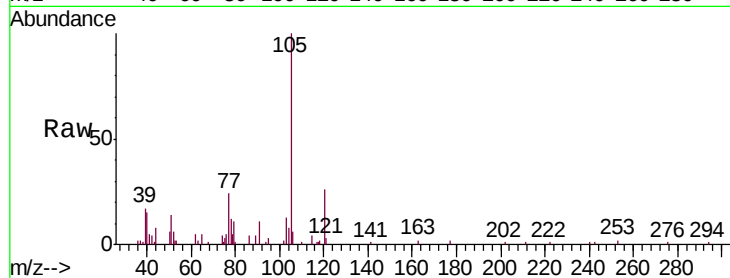
VSTDIC0.1

Tgt Ion: 105 Resp: 22199

Ion Ratio Lower Upper

105 100

120 41.1 20.7 31.1#



#63

1,1,2,2-Tetrachloroethane

Concen: 0.090 ppbv

RT: 13.76 min Scan# 3414

Delta R.T. 0.00 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

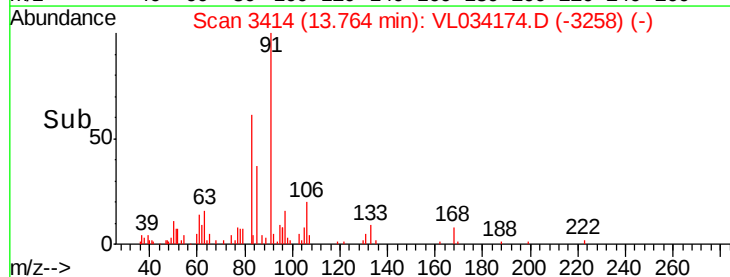
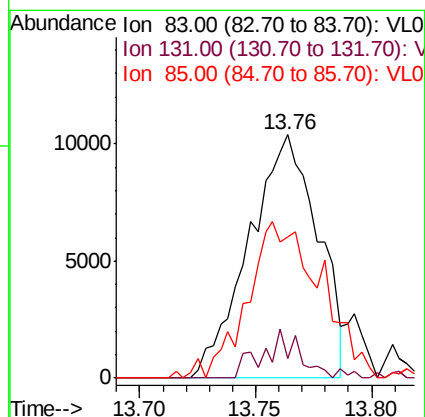
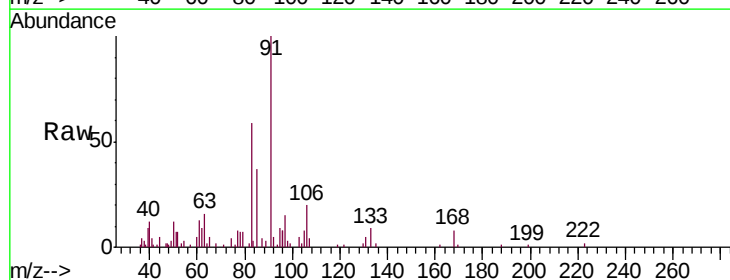
Tgt Ion: 83 Resp: 21380

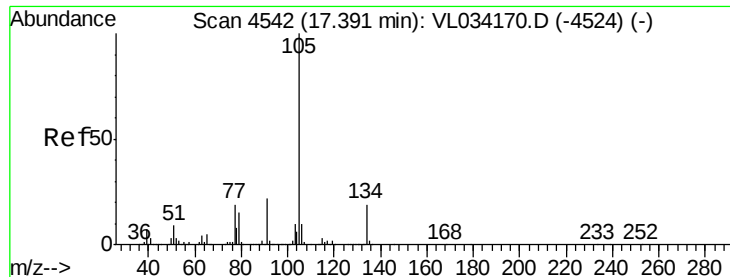
Ion Ratio Lower Upper

83 100

131 11.1 4.3 12.8

85 69.9 32.8 98.4





#67

sec-Butylbenzene

Concen: 0.053 ppbv

RT: 17.38 min Scan# 4540

Delta R.T. -0.01 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Instrument :

MSVOA_L

ClientSampleId :

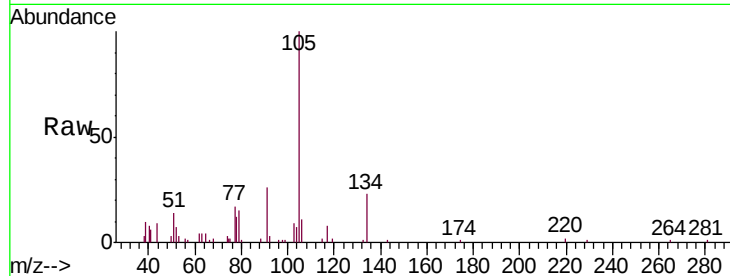
VSTDIC0.1

Tgt Ion: 105 Resp: 25053

Ion Ratio Lower Upper

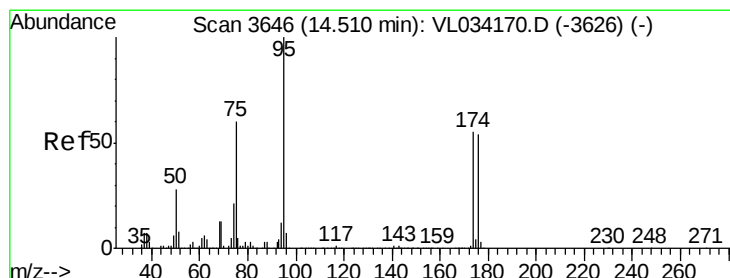
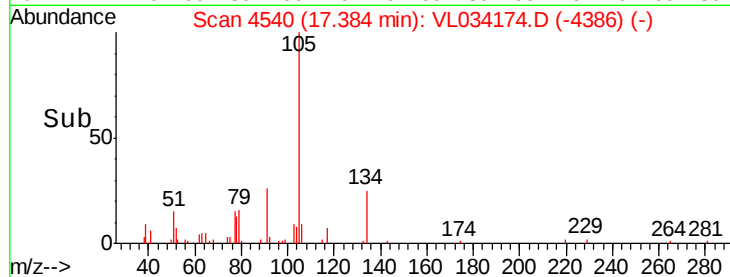
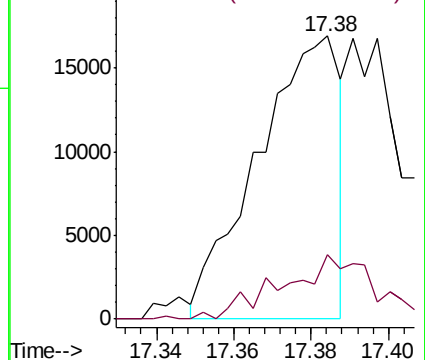
105 100

134 29.1 14.6 22.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.730 ppbv

RT: 14.50 min Scan# 3643

Delta R.T. -0.01 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

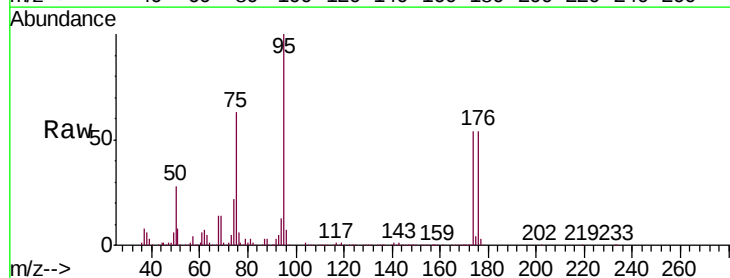
Tgt Ion: 95 Resp: 1928838

Ion Ratio Lower Upper

95 100

174 56.7 45.1 67.7

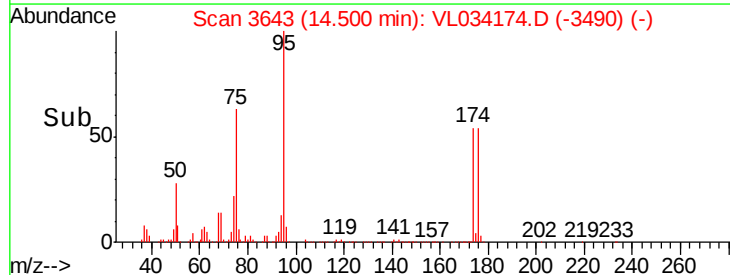
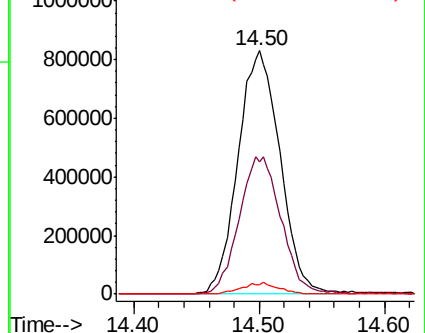
175 4.2 3.3 4.9

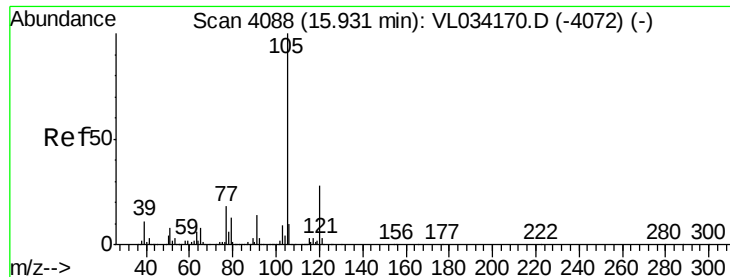


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#72

4-Ethyltoluene

Concen: 0.031 ppbv

RT: 15.92 min Scan# 4085

Delta R.T. -0.01 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

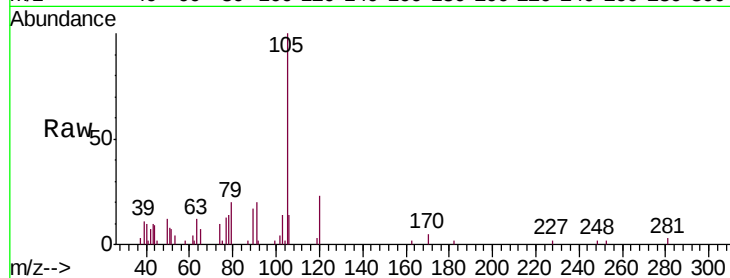
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:	105	Resp:	10271
Ion Ratio	Lower	Upper	
105	100		
120	0.0	23.3	34.9#
91	0.0	11.4	17.2#
77	0.0	13.3	19.9#

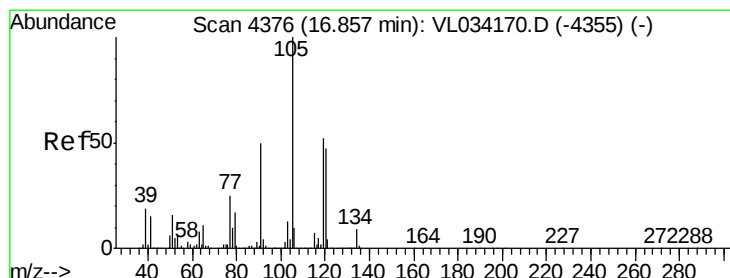
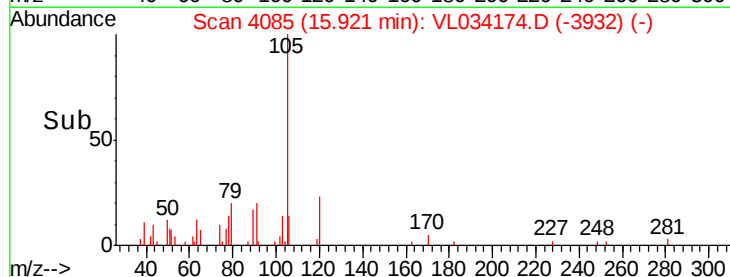
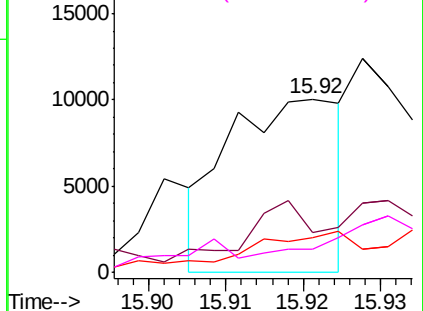


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#74

1,2,4-Trimethylbenzene

Concen: 0.033 ppbv

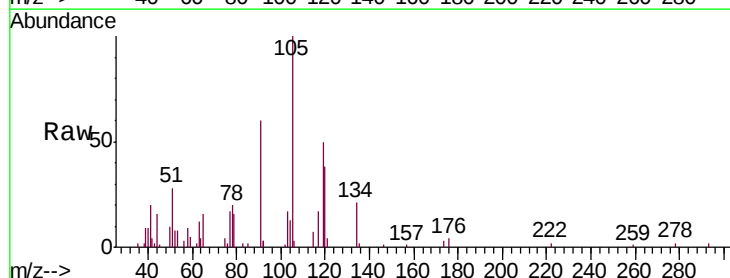
RT: 16.85 min Scan# 4373

Delta R.T. -0.01 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Tgt Ion:	105	Resp:	10901
Ion Ratio	Lower	Upper	
105	100		
120	11.1	37.5	56.3#
91	11.5	41.1	61.7#
77	0.0	19.9	29.9#

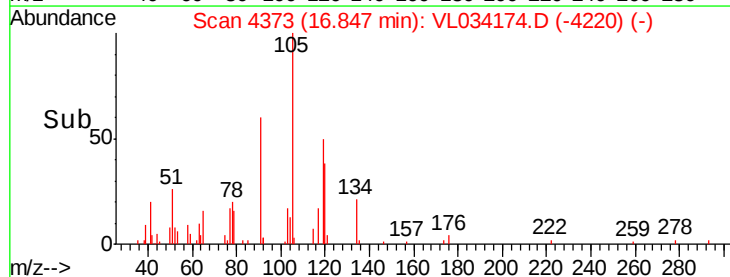
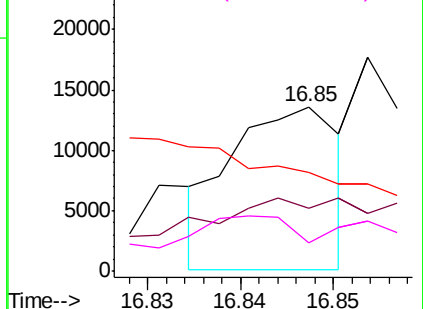


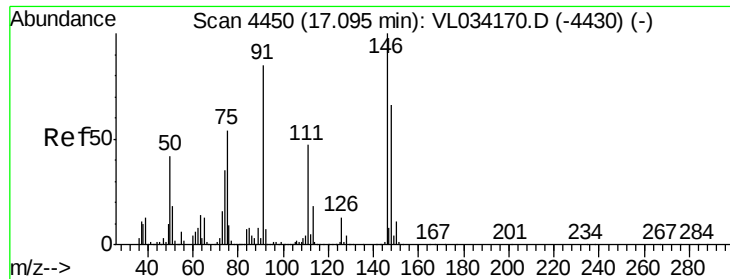
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

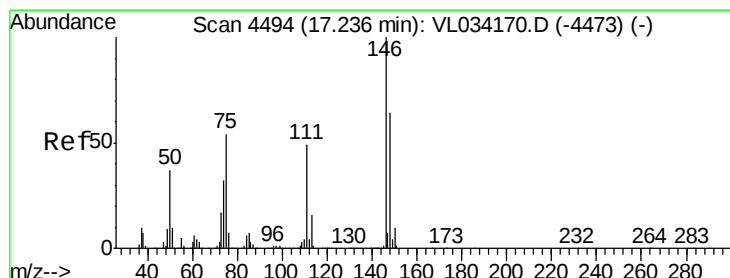
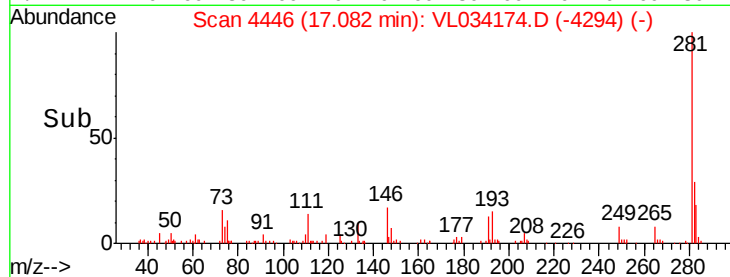
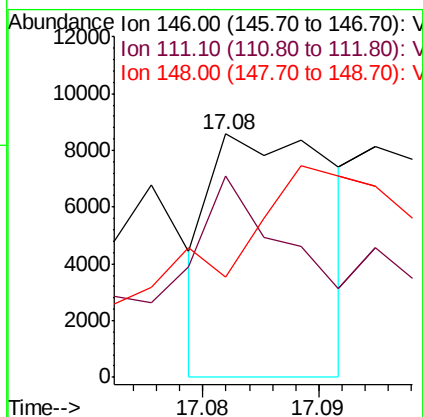
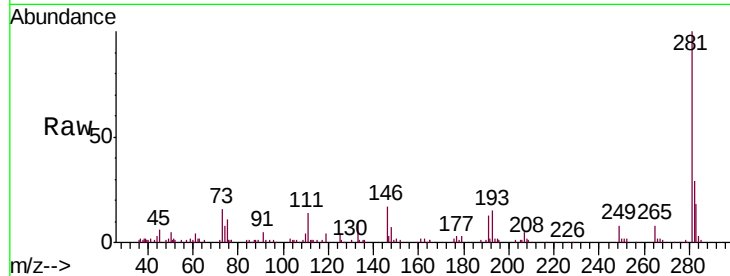




#75
 1,3-Dichlorobenzene
 Concen: 0.035 ppbv
 RT: 17.08 min Scan# 4446
 Delta R.T. -0.01 min
 Lab File: VL034174.D
 Acq: 17 Sep 2019 6:47

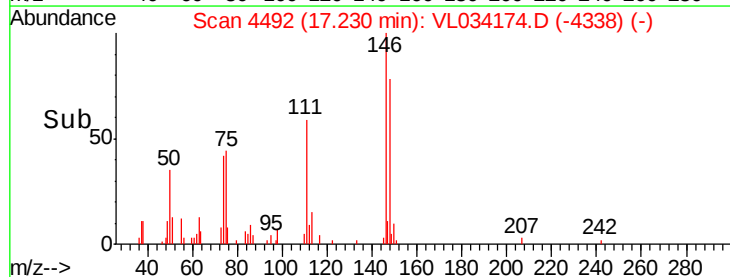
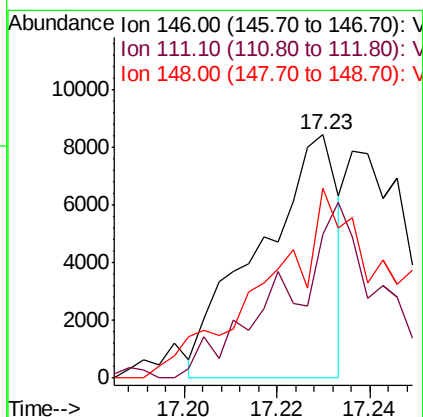
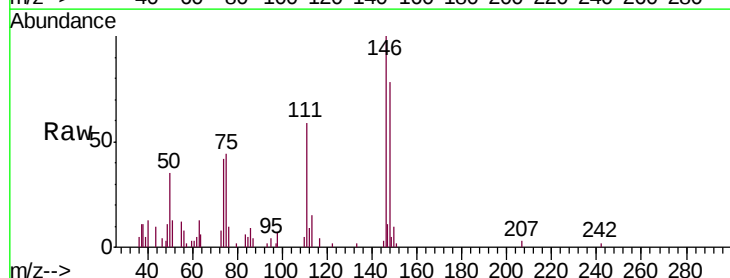
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

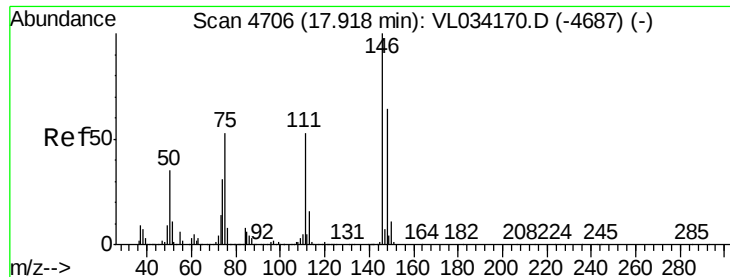
Tgt Ion:146 Resp: 6215
 Ion Ratio Lower Upper
 146 100
 111 229.6 25.9 77.8#
 148 0.0 32.6 97.7#



#76
 1,4-Dichlorobenzene
 Concen: 0.054 ppbv
 RT: 17.23 min Scan# 4492
 Delta R.T. -0.01 min
 Lab File: VL034174.D
 Acq: 17 Sep 2019 6:47

Tgt Ion:146 Resp: 9959
 Ion Ratio Lower Upper
 146 100
 111 0.0 24.6 74.0#
 148 130.1 32.4 97.0#





#77

1,2-Dichlorobenzene

Concen: 0.046 ppbv

RT: 17.91 min Scan# 4704

Delta R.T. -0.01 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

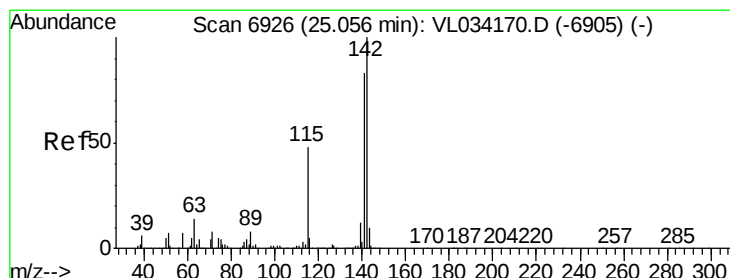
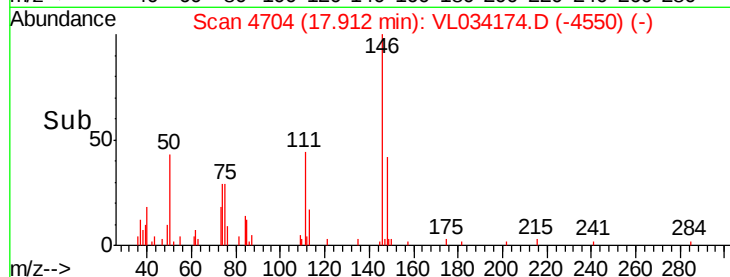
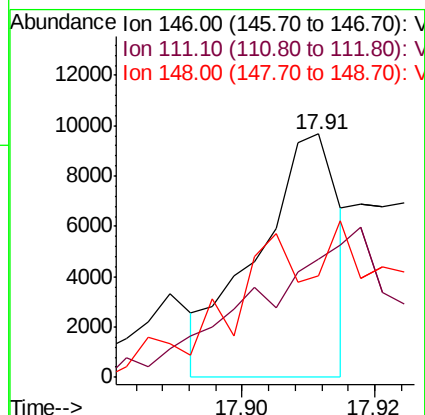
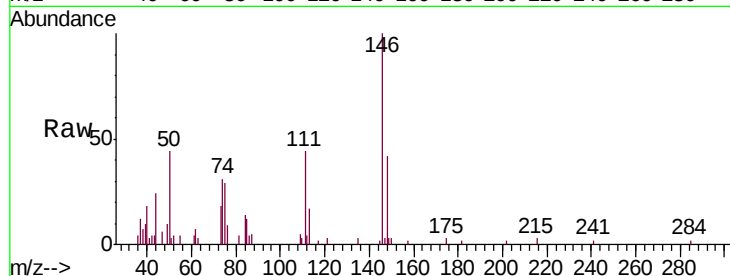
Tgt Ion:146 Resp: 8316

Ion Ratio Lower Upper

146 100

111 133.7 26.1 78.3#

148 146.0 31.9 95.9#



#80

Naphthalene, 2-methyl-

Concen: 0.079 ppbv

RT: 25.07 min Scan# 6931

Delta R.T. 0.02 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

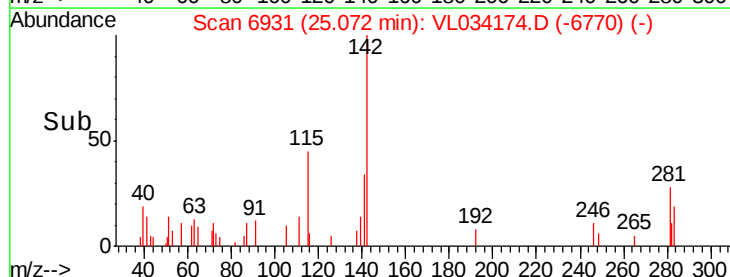
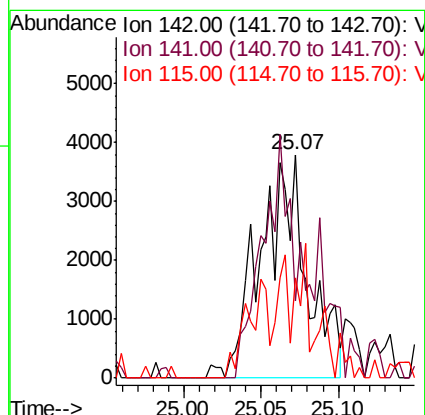
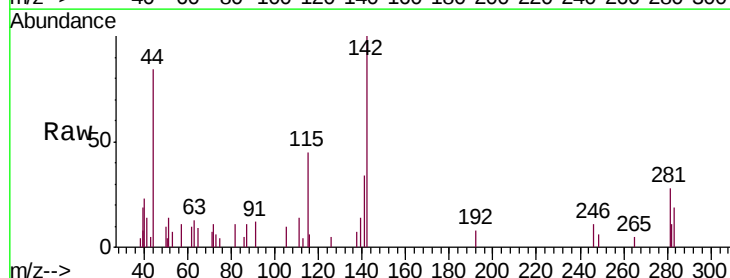
Tgt Ion:142 Resp: 7920

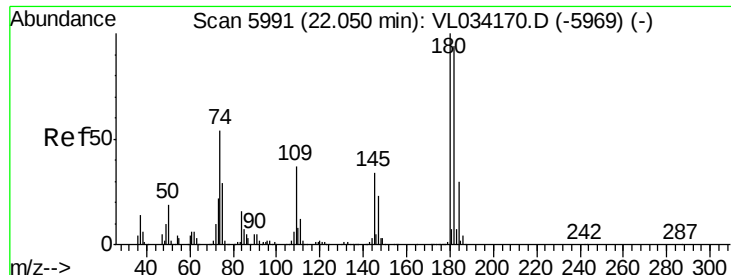
Ion Ratio Lower Upper

142 100

141 106.0 67.6 101.4#

115 58.5 36.9 55.3#





#81
 1,2,4-Trichlorobenzene
 Concen: 0.037 ppbv
 RT: 22.04 min Scan# 5987
 Delta R.T. -0.01 min
 Lab File: VL034174.D
 Acq: 17 Sep 2019 6:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tgt Ion:180 Resp: 5909
 Ion Ratio Lower Upper
 180 100
 182 0.0 77.4 116.2#
 184 0.0 25.0 37.4#

