

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100719\
 Data File : VL034243.D
 Acq On : 8 Oct 2019 4:58
 Operator : SY/AP
 Sample : K5222-04
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 V-4

Quant Time: Oct 09 02:24:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 18 12:53:31 2019
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	948732	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.22	114	1799187	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.15	117	1808948	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1570462	9.99	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	93426	0.667	ppbv #	87
3) Chlorodifluoromethane	2.86	51	18019	0.162	ppbv	98
4) Chloromethane	3.12	50	36715	0.562	ppbv	97
5) Vinyl Chloride	3.24	62	6487	0.109	ppbv #	67
8) Dichlorotetrafluoroethane	3.03	85	93426	0.755	ppbv #	21
9) Propene	2.99	41	1073163	19.554	ppbv	97
10) Heptane	8.17	43	638586	4.465	ppbv	99
11) Trichlorofluoromethane	3.95	101	34464	0.270	ppbv	91
13) Ethanol	3.60	45	1715406	129.077	ppbv	98
15) Acetone	3.84	43	3709866	29.176	ppbv #	87
16) 1,3-Butadiene	3.29	39	677240	12.204	ppbv #	46
17) tert-Butyl alcohol	4.31	59	79508	0.987	ppbv #	71
19) Isopropyl Alcohol	3.98	45	111145	1.421	ppbv #	1
20) Methylene Chloride	4.35	84	126512	3.451	ppbv	94
21) Allyl Chloride	4.37	41	175710	2.446	ppbv #	46
23) Vinyl Acetate	5.07	43	570382	3.044	ppbv #	1
25) Ethyl Acetate	5.71	43	768680	3.197	ppbv #	79
26) Hexane	5.71	57	992941	9.927	ppbv #	42
27) Carbon Disulfide	4.56	76	3091	0.034	ppbv #	48
29) Chloroform	5.78	83	40722	0.285	ppbv	86
30) Cyclohexane	7.17	84	318800	4.415	ppbv	94
31) cis-1,2-Dichloroethene	5.58	61	19657	0.193	ppbv #	81
34) 2-Butanone	5.26	43	486637	2.649	ppbv	97
36) Benzene	6.93	78	1497499	7.536	ppbv	93
38) Trichloroethene	7.88	130	3254	0.046	ppbv #	53
39) 1,2-Dichloropropane	7.21	63	535509	5.998	ppbv #	19
41) Tetrahydrofuran	6.01	42	9907	0.096	ppbv #	63
42) Bromodichloromethane	7.84	83	15201	0.090	ppbv #	33
44) 2,2,4-Trimethylpentane	7.92	57	1160235	3.033	ppbv #	86
50) 4-Methyl-2-Pentanone	8.80	43	154064	0.576	ppbv	99
51) 2-Hexanone	10.19	43	16369	0.073	ppbv #	31
52) Tetrachloroethene	11.29	164	13392	0.204	ppbv #	74
53) Toluene	9.86	91	4223905	19.450	ppbv	98
58) Ethyl Benzene	12.78	91	835662	2.863	ppbv	95
59) m/p-Xylene	13.03	91	2318346	9.590	ppbv	99
60) o-Xylene	13.76	91	877947	3.632	ppbv	99
61) Styrene	13.60	104	67766	0.391	ppbv #	24
62) Isopropylbenzene	14.73	105	30405	0.097	ppbv #	65
64) n-propylbenzene	15.64	120	23253	0.294	ppbv #	1
65) tert-Butylbenzene	16.83	119	44529	0.163	ppbv #	12
70) n-Butylbenzene	18.63	91	28161	0.076	ppbv #	32

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QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration

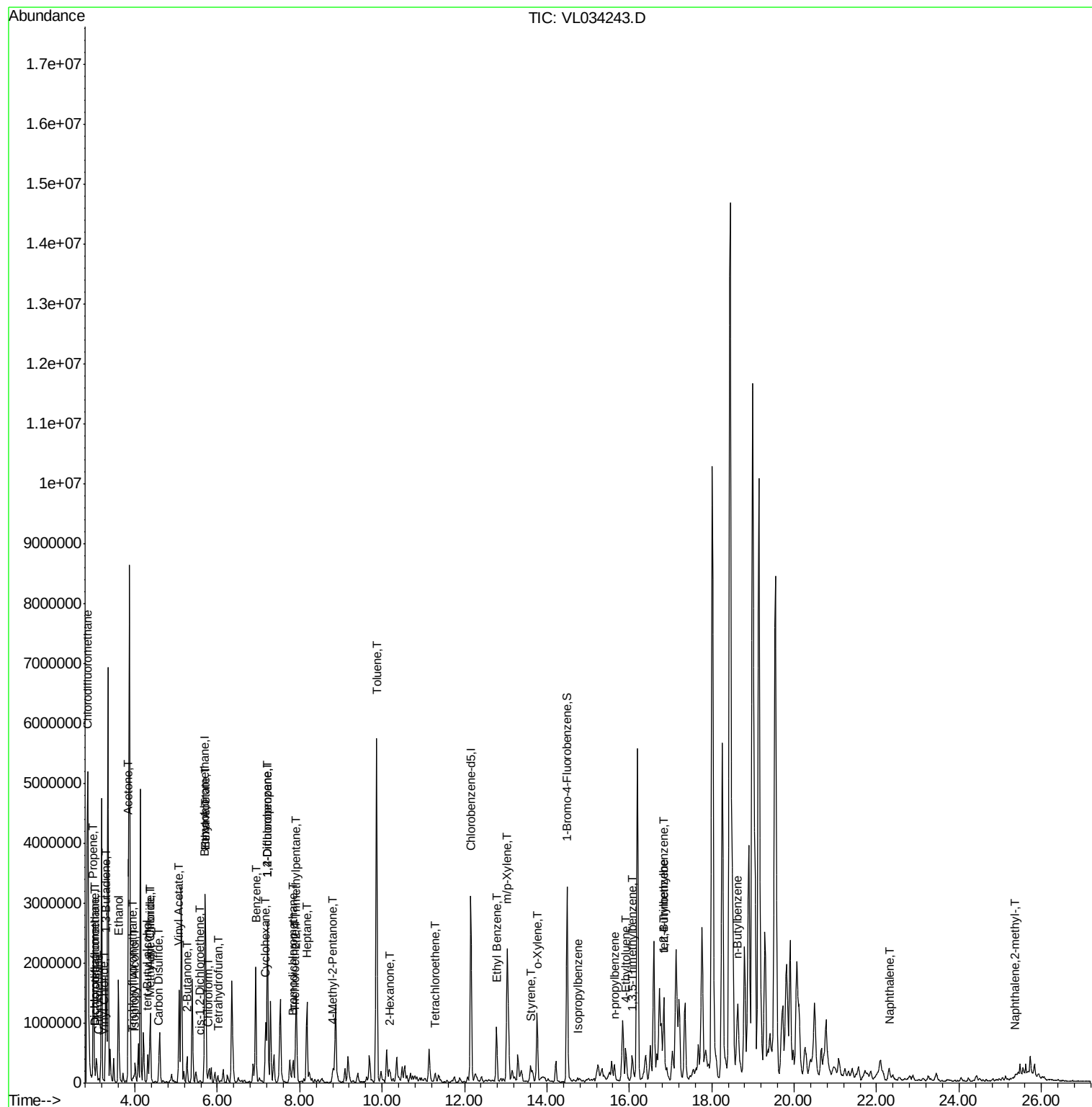
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	15.91	105	329252	1.206	ppbv	96
73) 1,3,5-Trimethylbenzene	16.08	105	293895	1.114	ppbv	98
74) 1,2,4-Trimethylbenzene	16.84	105	1018097	3.634	ppbv #	70
79) Naphthalene	22.32	128	62009	0.251	ppbv	97
80) Naphthalene,2-methyl-	25.37	142	12844	0.112	ppbv	90

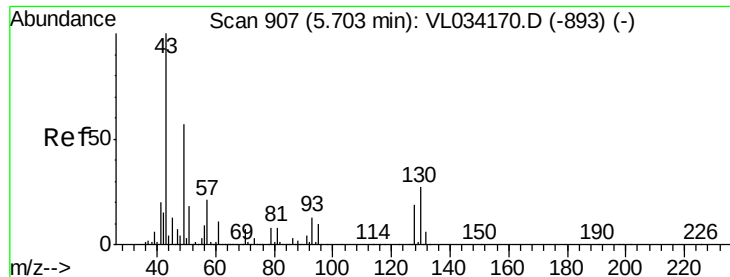
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 903

Delta R.T. -0.01 min

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V-4

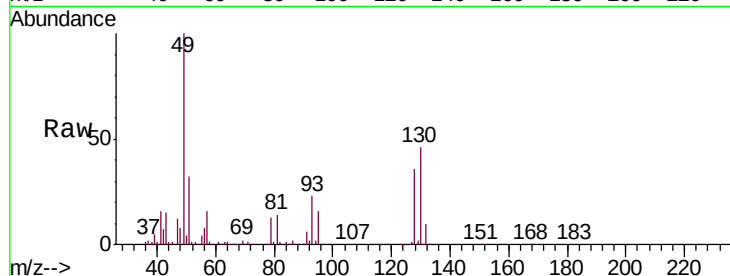
Tgt Ion: 49 Resp: 948732

Ion Ratio Lower Upper

49 100

128 38.2 17.6 52.9

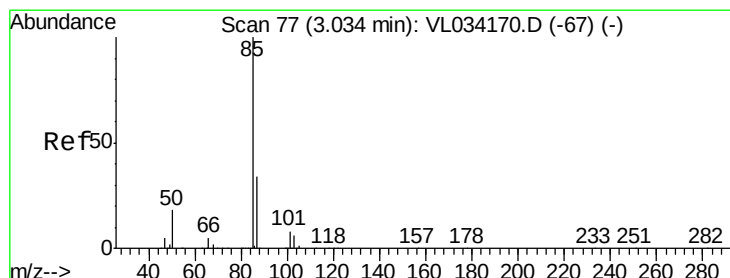
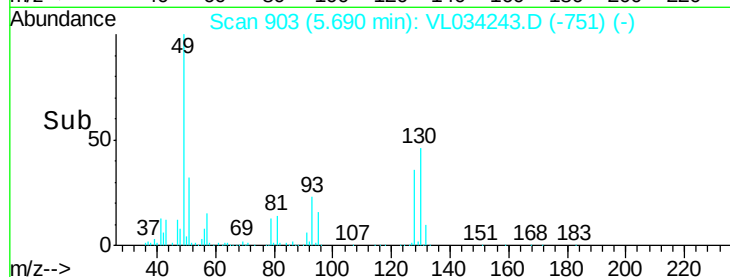
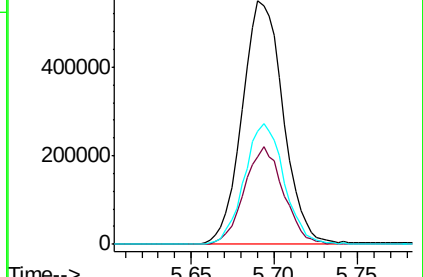
130 48.3 22.3 66.9



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: 0.667 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.01 min

Lab File: VL034243.D

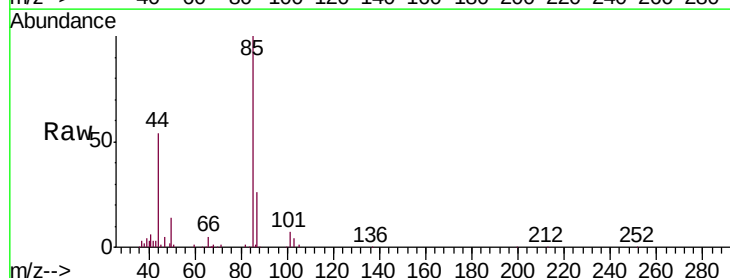
Acq: 8 Oct 2019 4:58

Tgt Ion: 85 Resp: 93426

Ion Ratio Lower Upper

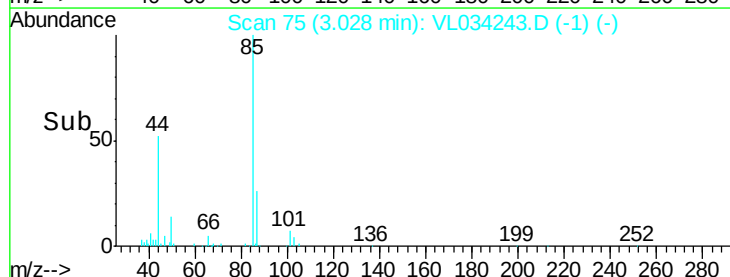
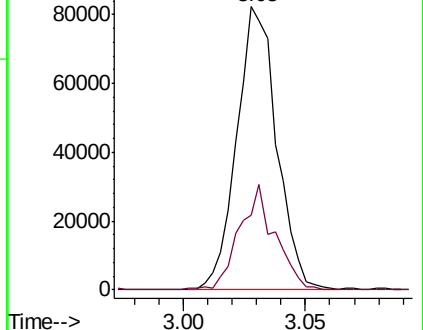
85 100

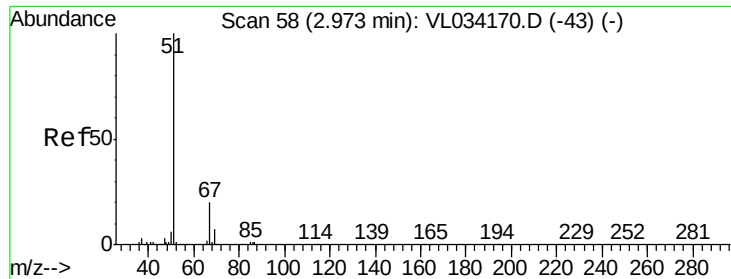
87 26.3 27.2 40.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.162 ppbv

RT: 2.86 min Scan# 24

Delta R.T. -0.11 min

Lab File: VL034243.D

Acq: 8 Oct 2019 4:58

Instrument :

MSVOA_L

ClientSampleId :

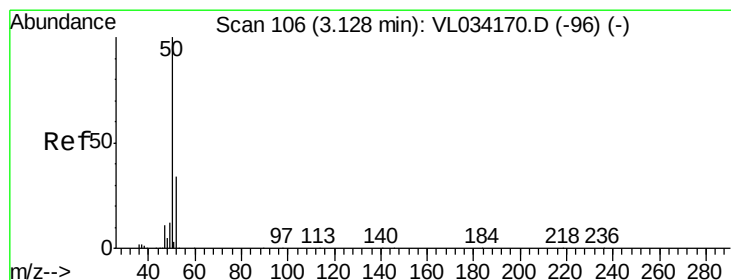
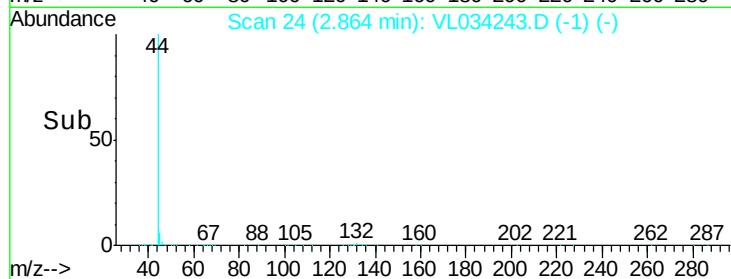
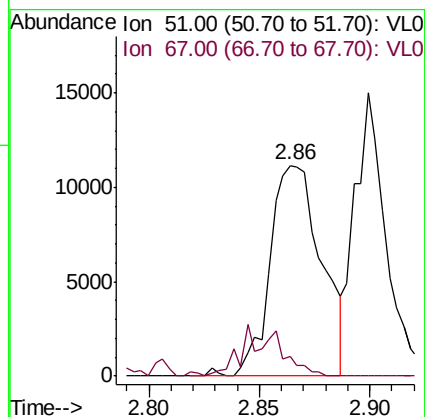
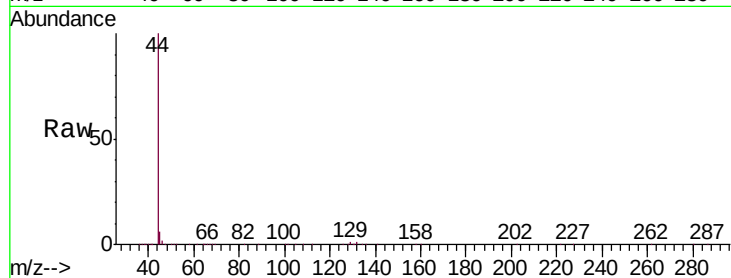
V-4

Tgt Ion: 51 Resp: 18019

Ion Ratio Lower Upper

51 100

67 17.5 14.8 22.2



#4

Chloromethane

Concen: 0.562 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL034243.D

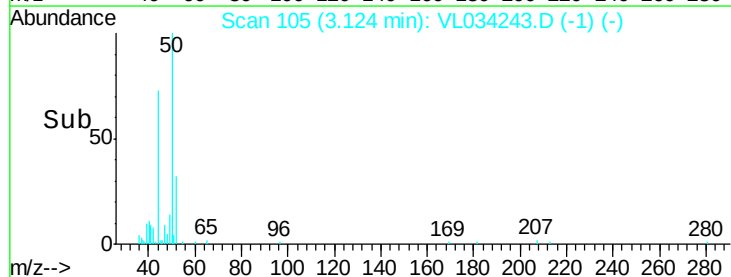
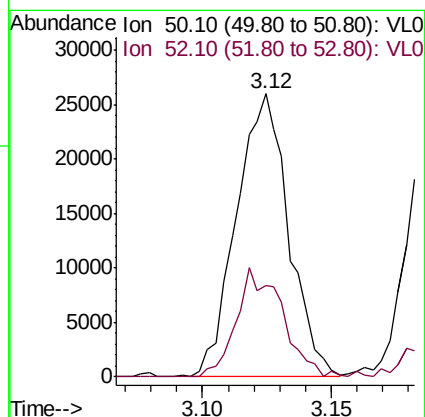
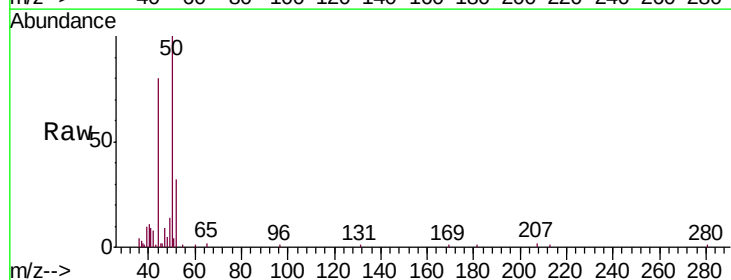
Acq: 8 Oct 2019 4:58

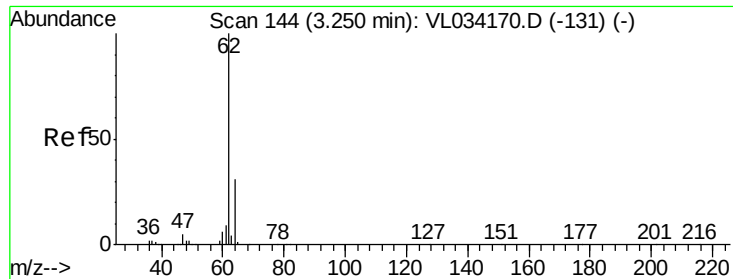
Tgt Ion: 50 Resp: 36715

Ion Ratio Lower Upper

50 100

52 32.3 27.1 40.7





#5

Vinyl Chloride

Concen: 0.109 ppbv

RT: 3.24 min Scan# 142

Delta R.T. -0.01 min

Lab File: VL034243.D

Acq: 8 Oct 2019 4:58

Instrument :

MSVOA_L

ClientSampleId :

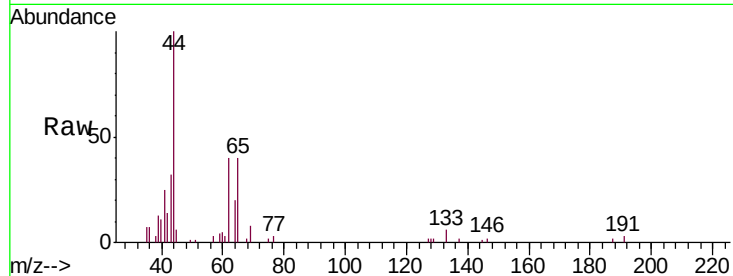
V-4

Tgt Ion: 62 Resp: 6487

Ion Ratio Lower Upper

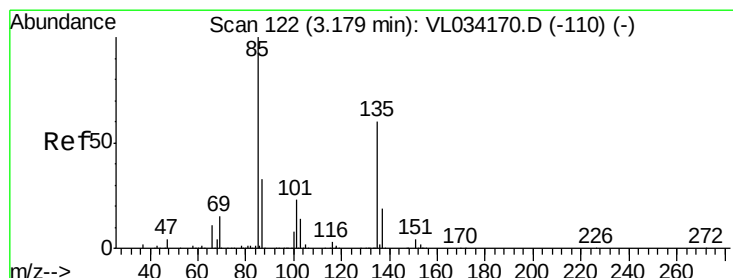
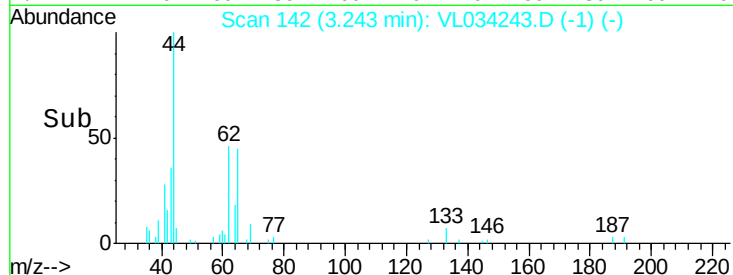
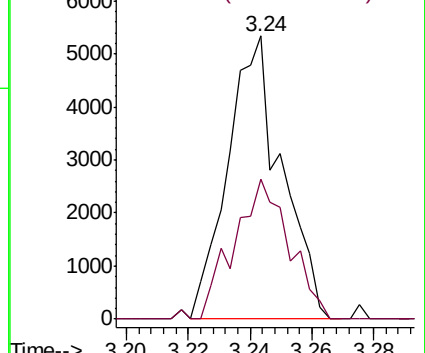
62 100

64 49.7 25.2 37.8#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.755 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.15 min

Lab File: VL034243.D

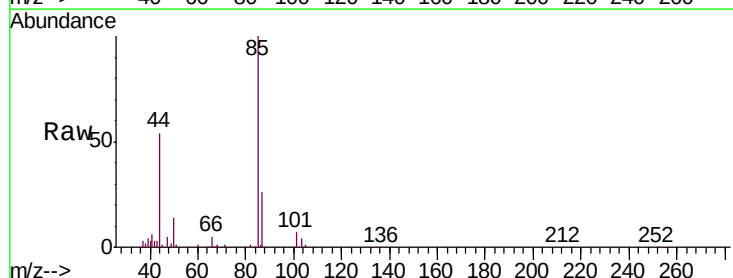
Acq: 8 Oct 2019 4:58

Tgt Ion: 85 Resp: 93426

Ion Ratio Lower Upper

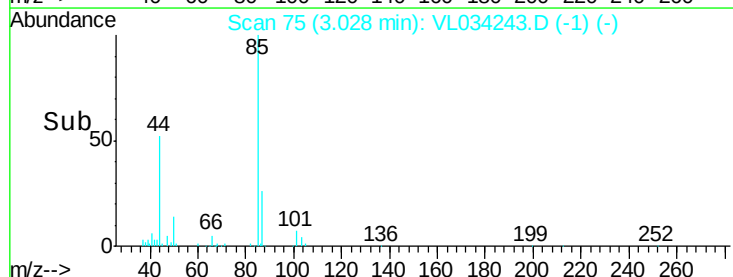
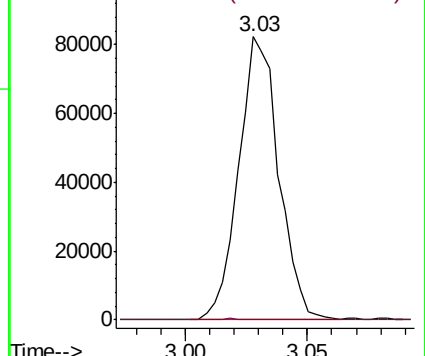
85 100

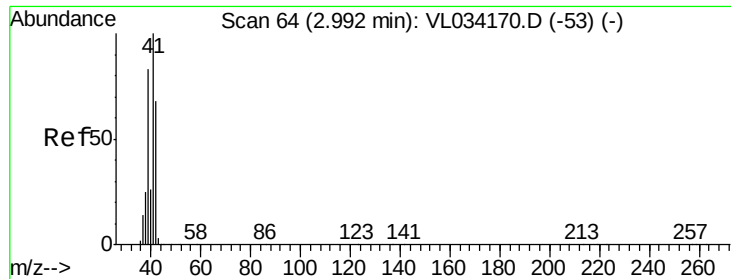
135 0.1 47.3 70.9#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 19.554 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL034243.D

Acq: 8 Oct 2019 4:58

Instrument :

MSVOA_L

ClientSampleId :

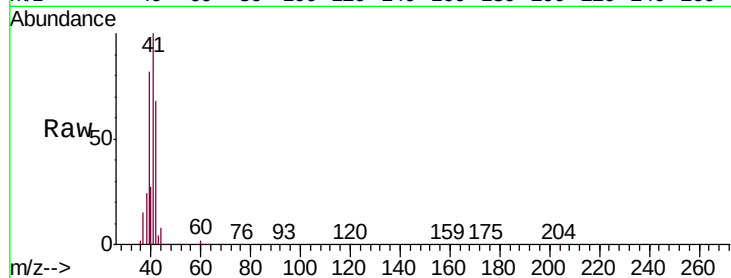
V-4

Tgt Ion: 41 Resp: 1073163

Ion Ratio Lower Upper

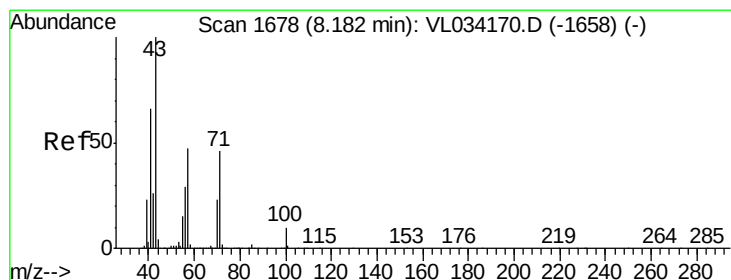
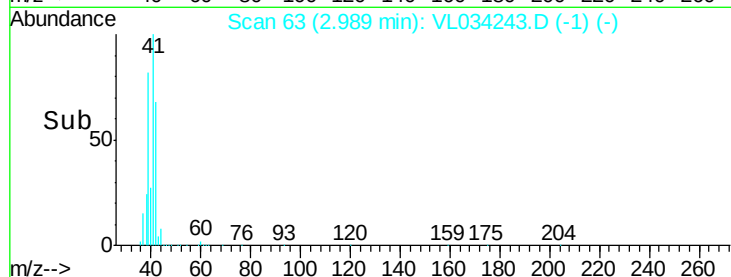
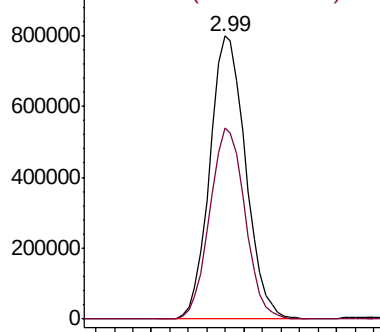
41 100

42 66.8 55.8 83.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 4.465 ppbv

RT: 8.17 min Scan# 1674

Delta R.T. -0.01 min

Lab File: VL034243.D

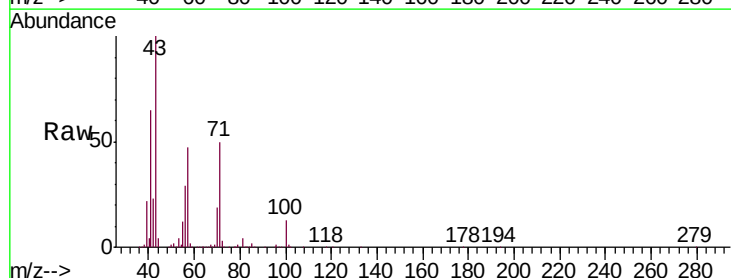
Acq: 8 Oct 2019 4:58

Tgt Ion: 43 Resp: 638586

Ion Ratio Lower Upper

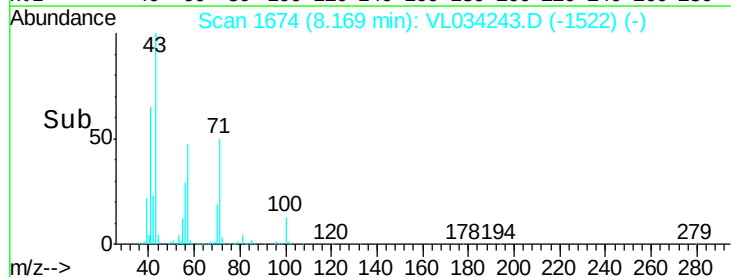
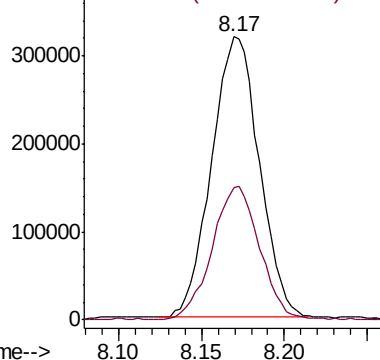
43 100

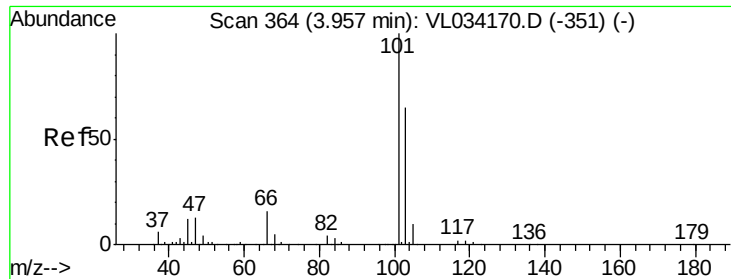
57 47.3 37.5 56.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

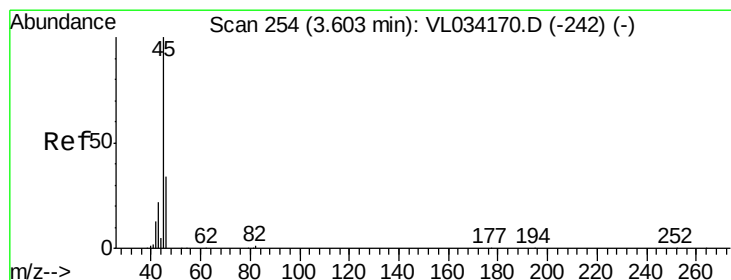
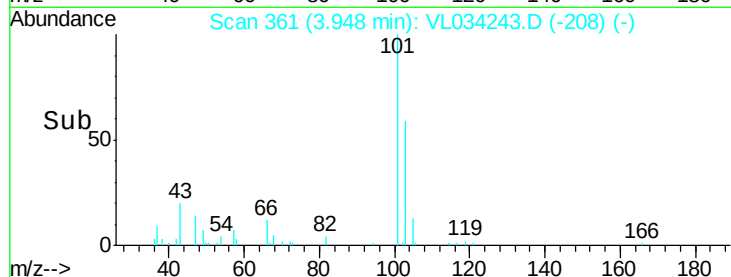
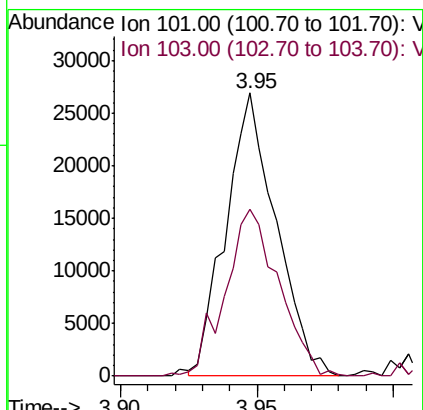
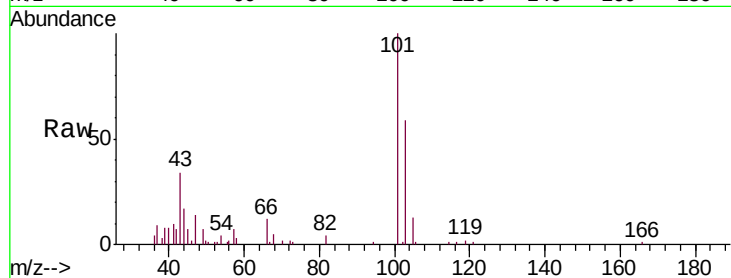




#11
 Trichlorofluoromethane
 Concen: 0.270 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. -0.01 min
 Lab File: VL034243.D
 Acq: 8 Oct 2019 4:58

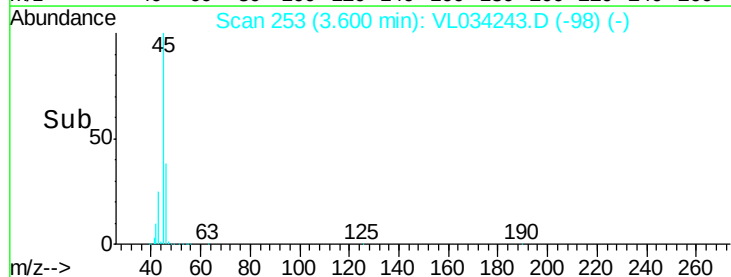
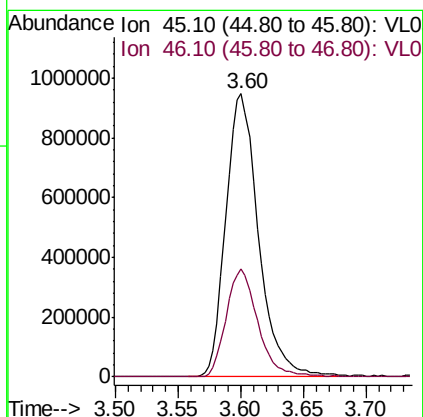
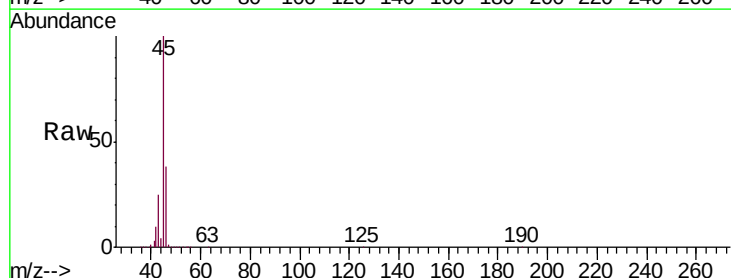
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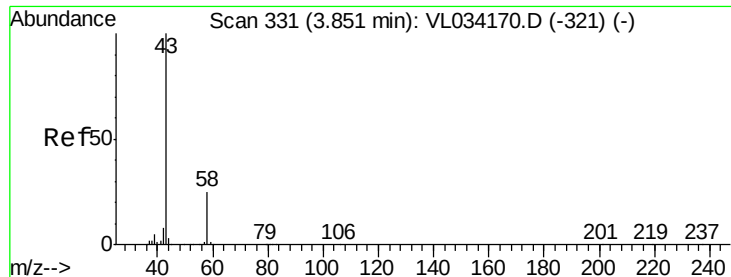
Tgt Ion: 101 Resp: 34464
 Ion Ratio Lower Upper
 101 100
 103 58.1 52.1 78.1



#13
 Ethanol
 Concen: 129.077 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. -0.00 min
 Lab File: VL034243.D
 Acq: 8 Oct 2019 4:58

Tgt Ion: 45 Resp: 1715406
 Ion Ratio Lower Upper
 45 100
 46 37.3 15.5 61.9





#15

Acetone

Concen: 29.176 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.01 min

Lab File: VL034243.D

Acq: 8 Oct 2019 4:58

Instrument :

MSVOA_L

ClientSampleId :

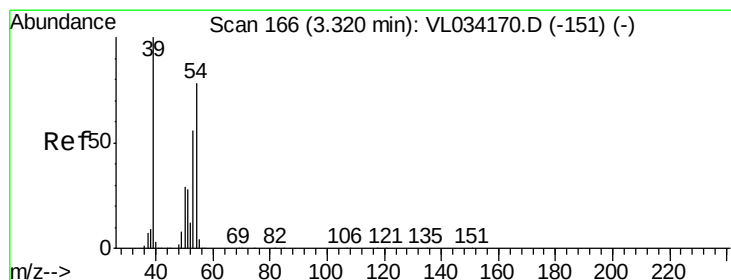
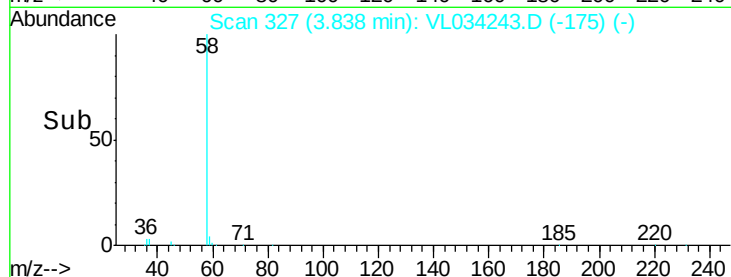
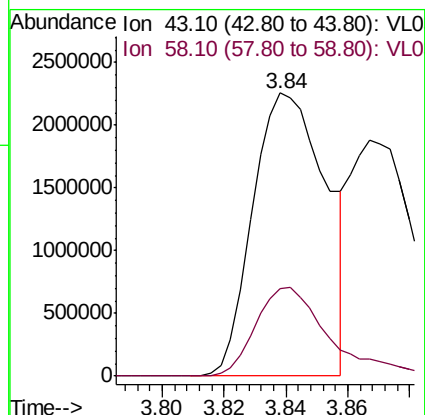
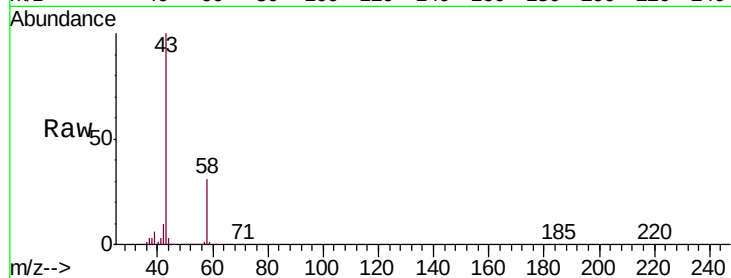
V-4

Tgt Ion: 43 Resp: 3709866

Ion Ratio Lower Upper

43 100

58 32.0 20.5 30.7#



#16

1,3-Butadiene

Concen: 12.204 ppbv

RT: 3.29 min Scan# 158

Delta R.T. -0.03 min

Lab File: VL034243.D

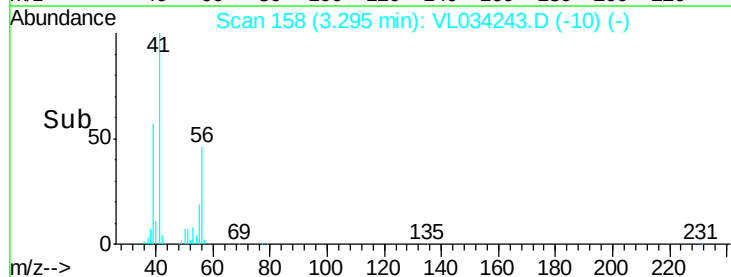
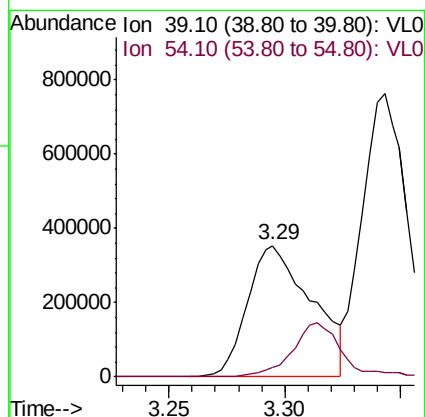
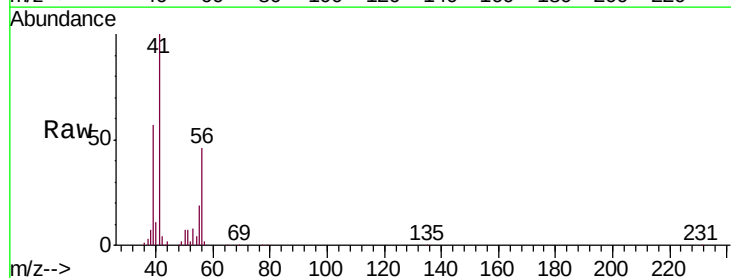
Acq: 8 Oct 2019 4:58

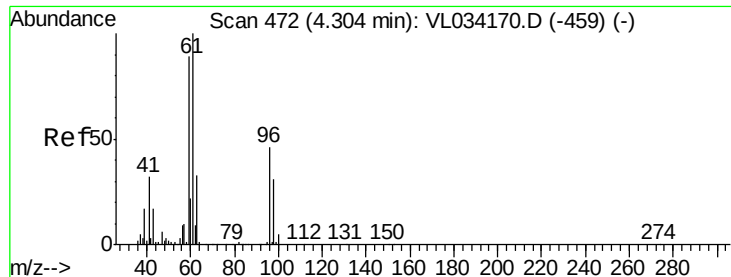
Tgt Ion: 39 Resp: 677240

Ion Ratio Lower Upper

39 100

54 32.2 63.4 95.0#



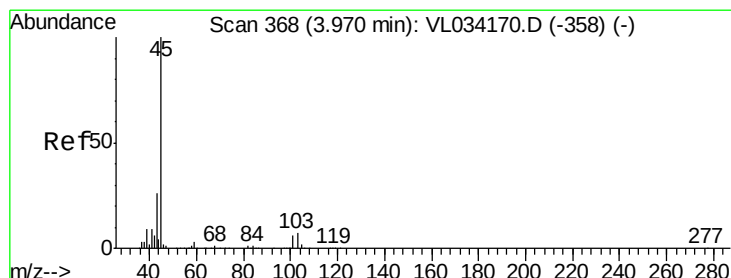
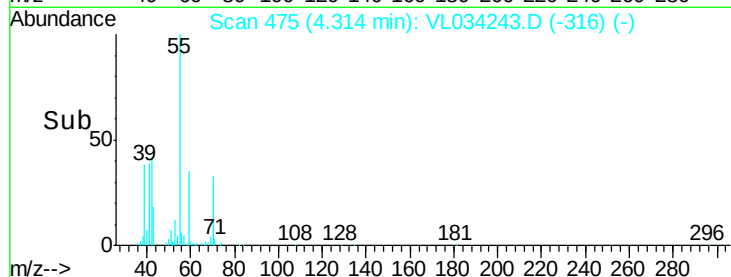
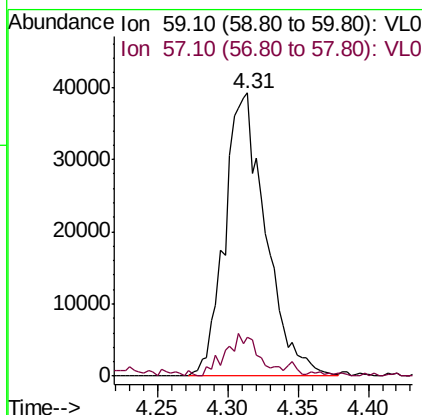
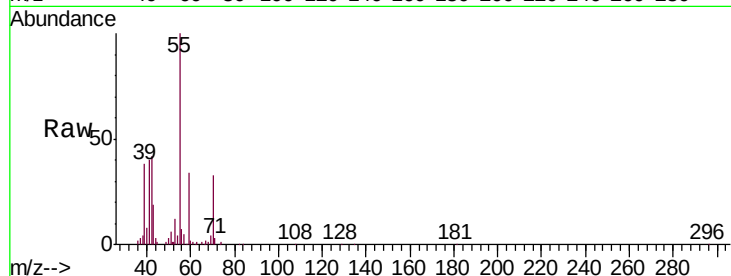


#17

tert-Butyl alcohol
Concen: 0.987 ppbv
RT: 4.31 min Scan# 475
Delta R.T. 0.01 min
Lab File: VL034243.D
Acq: 8 Oct 2019 4:58

Instrument :
MSVOA_L
ClientSampleId :
V-4

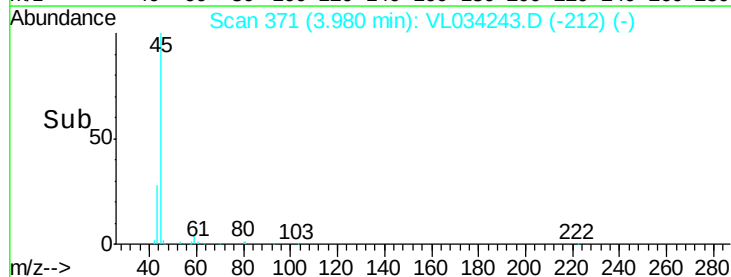
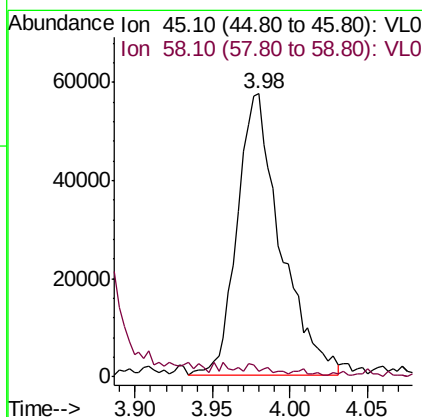
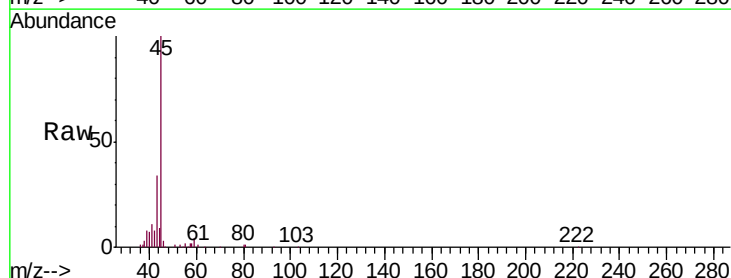
Tgt Ion: 59 Resp: 79508
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

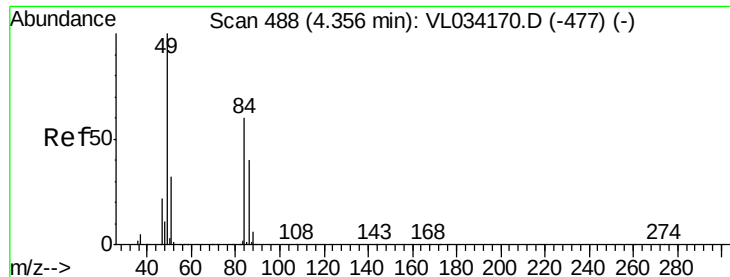


#19

Isopropyl Alcohol
Concen: 1.421 ppbv
RT: 3.98 min Scan# 371
Delta R.T. 0.01 min
Lab File: VL034243.D
Acq: 8 Oct 2019 4:58

Tgt Ion: 45 Resp: 111145
Ion Ratio Lower Upper
45 100
58 1063.6 1.4 2.0#

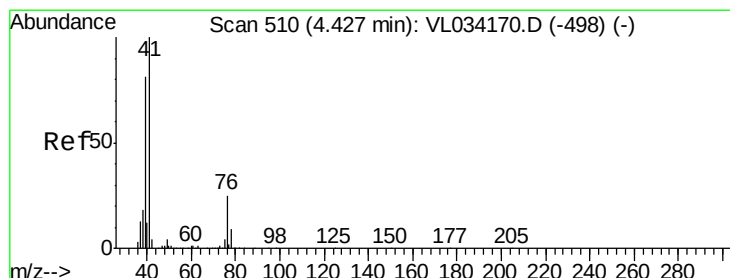
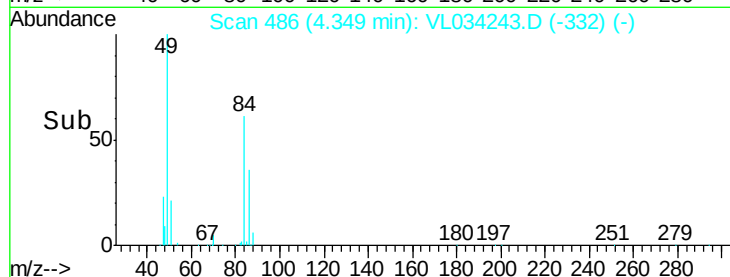
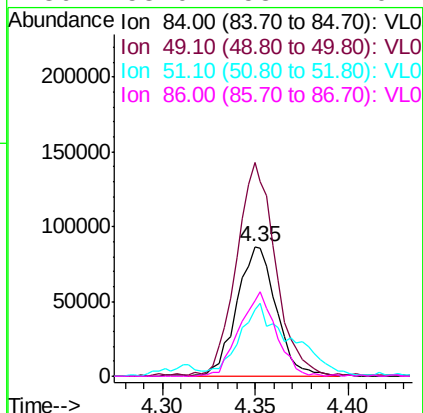
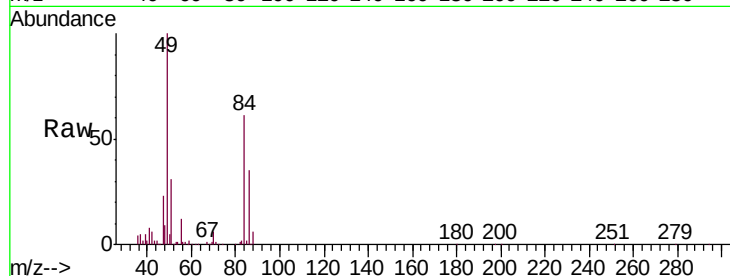




#20
Methylene Chloride
Concen: 3.451 ppbv
RT: 4.35 min Scan# 486
Delta R.T. -0.01 min
Lab File: VL034243.D
Acq: 8 Oct 2019 4:58

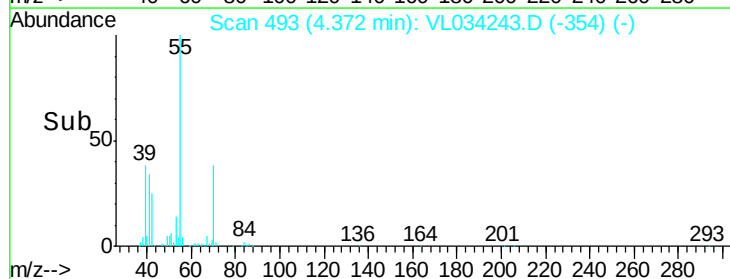
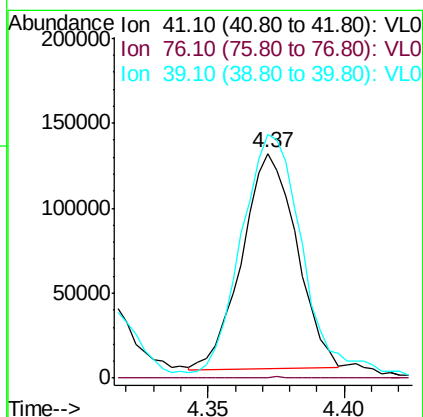
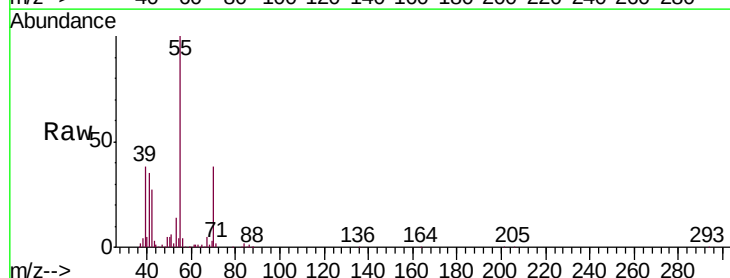
Instrument :
MSVOA_L
ClientSampled :
V-4

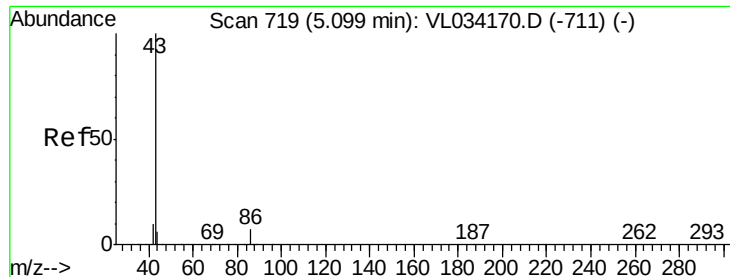
Tgt Ion:	84	Resp:	126512
Ion	Ratio	Lower	Upper
84	100		
49	164.2	133.8	200.8
51	46.6	43.6	65.4
86	58.0	53.1	79.7



#21
Allyl Chloride
Concen: 2.446 ppbv
RT: 4.37 min Scan# 493
Delta R.T. -0.05 min
Lab File: VL034243.D
Acq: 8 Oct 2019 4:58

Tgt Ion:	41	Resp:	175710
Ion	Ratio	Lower	Upper
41	100		
76	0.2	21.8	32.6#
39	129.6	64.8	97.2#

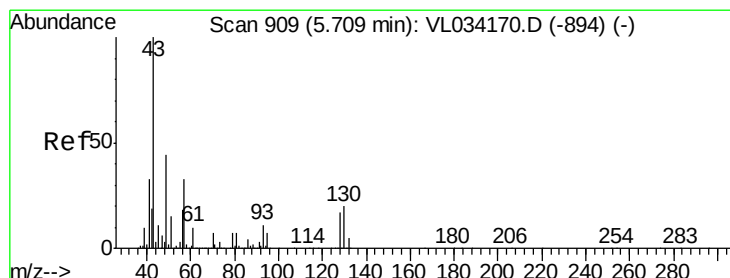
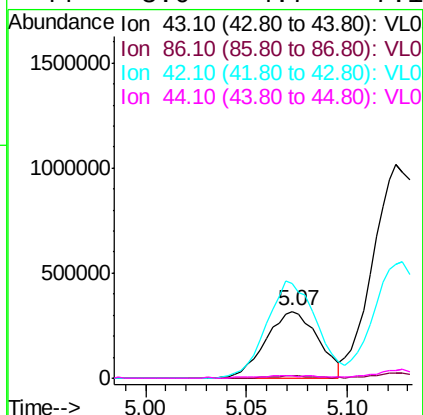
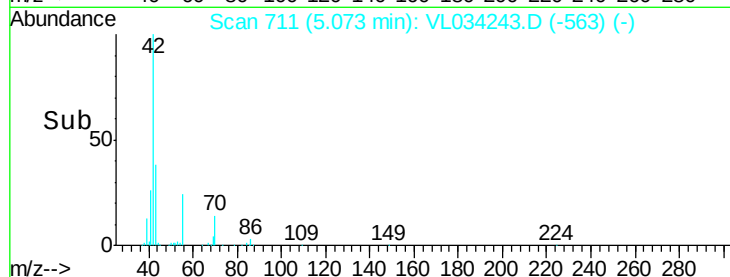
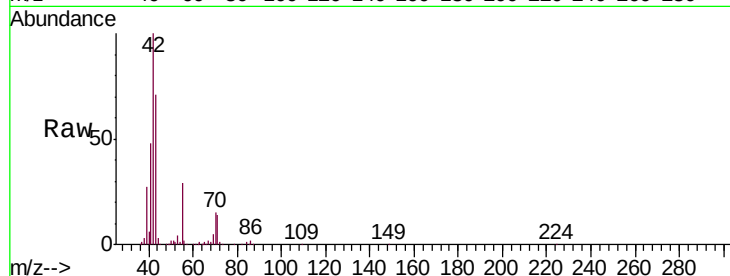




#23
 Vinyl Acetate
 Concen: 3.044 ppbv
 RT: 5.07 min Scan# 711
 Delta R.T. -0.03 min
 Lab File: VL034243.D
 Acq: 8 Oct 2019 4:58

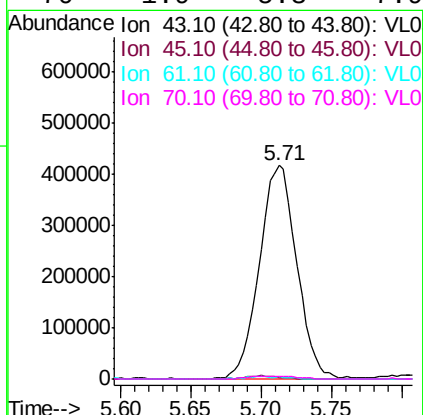
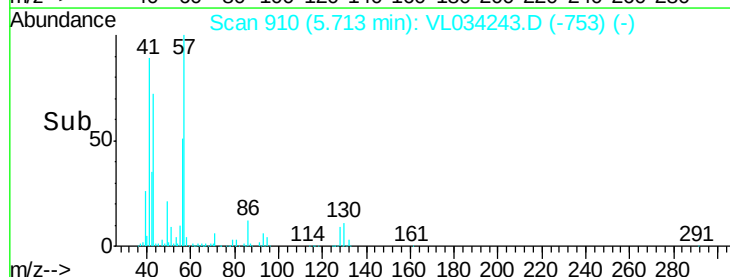
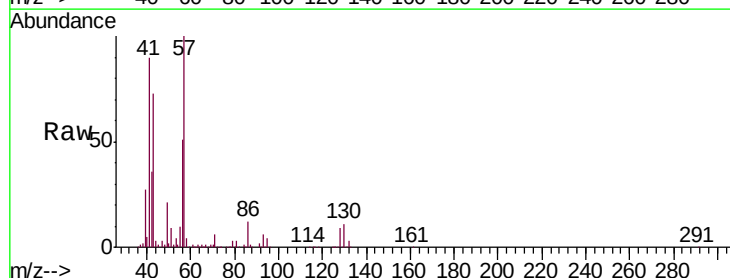
Instrument :
 MSVOA_L
 ClientSampleId :
 V-4

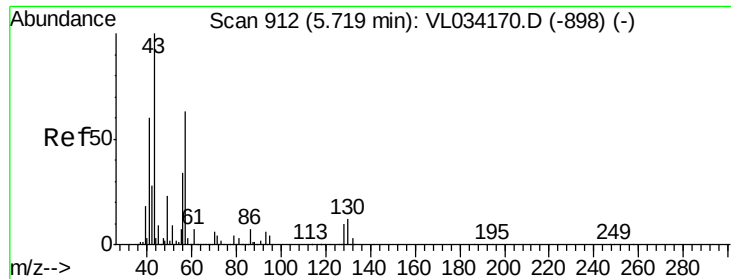
Tgt Ion:	43	Resp:	570382
Ion	Ratio	Lower	Upper
43	100		
86	3.5	5.1	7.7#
42	140.5	8.6	12.8#
44	3.0	4.7	7.1#



#25
 Ethyl Acetate
 Concen: 3.197 ppbv
 RT: 5.71 min Scan# 910
 Delta R.T. 0.00 min
 Lab File: VL034243.D
 Acq: 8 Oct 2019 4:58

Tgt Ion:	43	Resp:	768680
Ion	Ratio	Lower	Upper
43	100		
45	1.6	8.4	12.6#
61	1.2	7.2	10.8#
70	1.9	5.3	7.9#





#26

Hexane

Concen: 9.927 ppbv

RT: 5.71 min Scan# 910

Delta R.T. -0.01 min

Lab File: VL034243.D

Acq: 8 Oct 2019 4:58

Instrument :

MSVOA_L

ClientSampleId :

V-4

Tgt Ion: 57 Resp: 992941

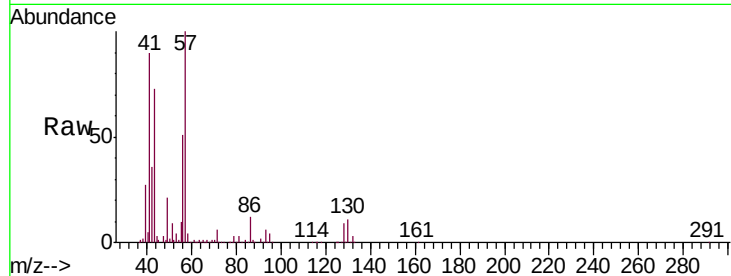
Ion Ratio Lower Upper

57 100

41 95.2 78.5 117.7

43 77.6 189.5 284.3#

56 53.6 43.2 64.8

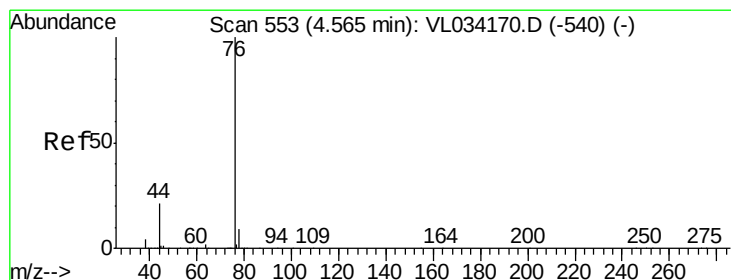
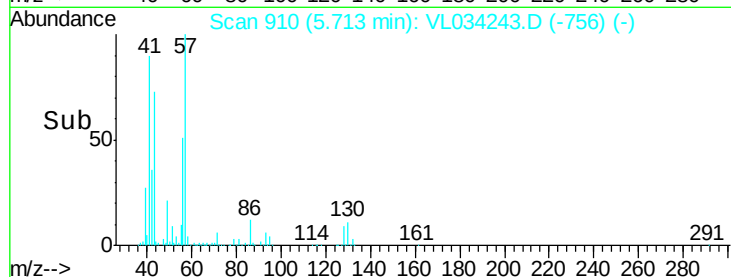
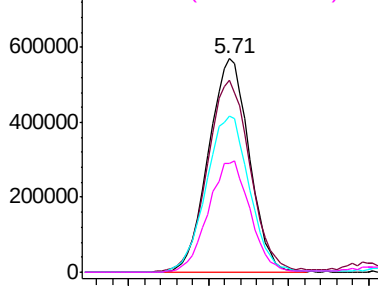


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#27

Carbon Disulfide

Concen: 0.034 ppbv

RT: 4.56 min Scan# 552

Delta R.T. -0.00 min

Lab File: VL034243.D

Acq: 8 Oct 2019 4:58

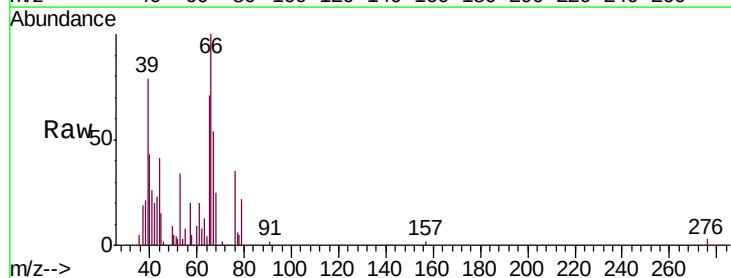
Tgt Ion: 76 Resp: 3091

Ion Ratio Lower Upper

76 100

44 0.0 17.6 26.4#

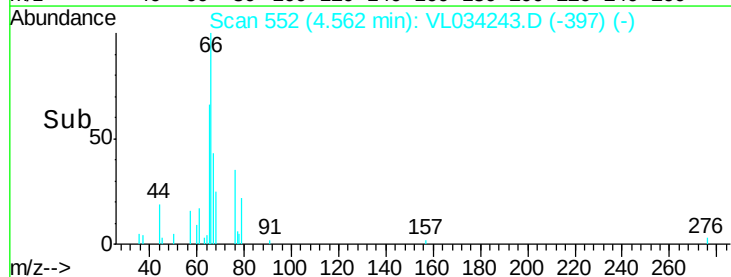
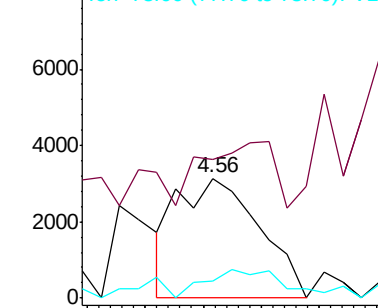
78 33.6 7.6 11.4#

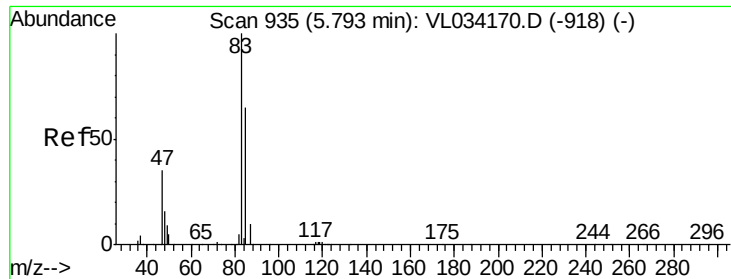


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

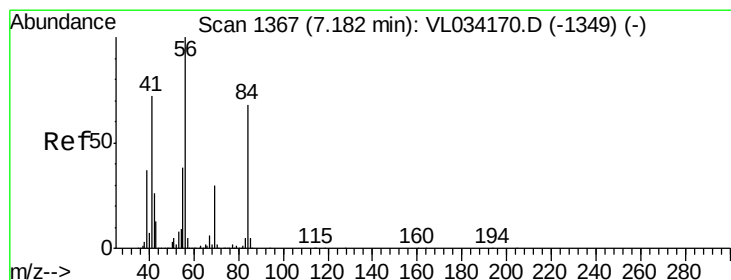
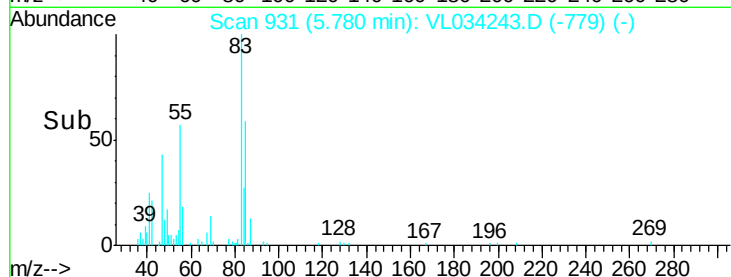
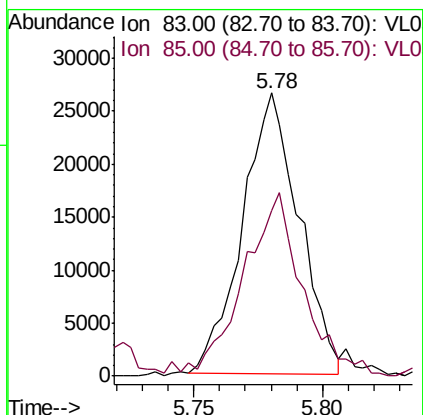
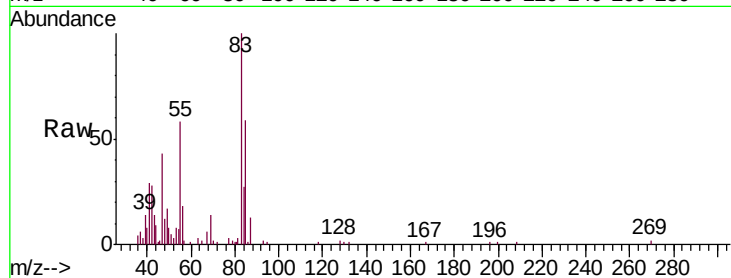




#29
Chloroform
Concen: 0.285 ppbv
RT: 5.78 min Scan# 931
Delta R.T. -0.01 min
Lab File: VL034243.D
Acq: 8 Oct 2019 4:58

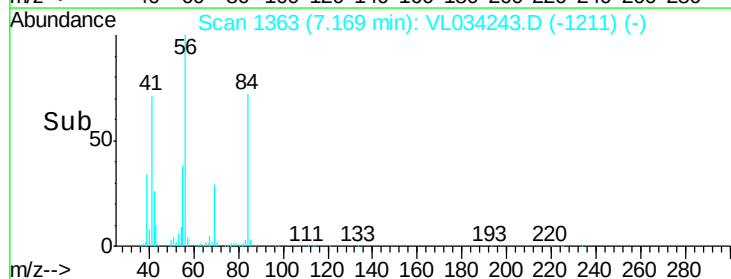
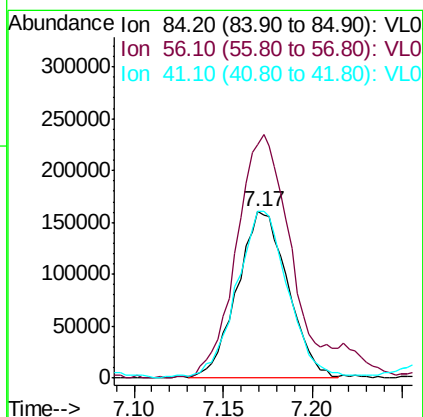
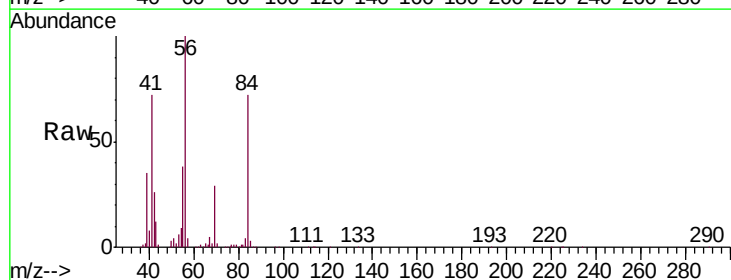
Instrument :
MSVOA_L
ClientSampleId :
V-4

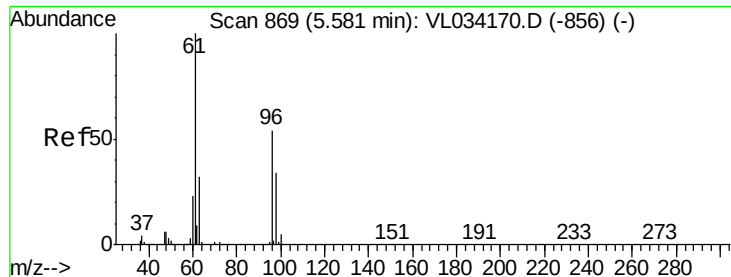
Tgt Ion: 83 Resp: 40722
Ion Ratio Lower Upper
83 100
85 54.3 52.3 78.5



#30
Cyclohexane
Concen: 4.415 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VL034243.D
Acq: 8 Oct 2019 4:58

Tgt Ion: 84 Resp: 318800
Ion Ratio Lower Upper
84 100
56 166.0 126.2 189.2
41 100.8 85.8 128.8





#31

cis-1,2-Dichloroethene

Concen: 0.193 ppbv

RT: 5.58 min Scan# 868

Delta R.T. -0.00 min

Lab File: VL034243.D

Acq: 8 Oct 2019 4:58

Instrument :

MSVOA_L

ClientSampleId :

V-4

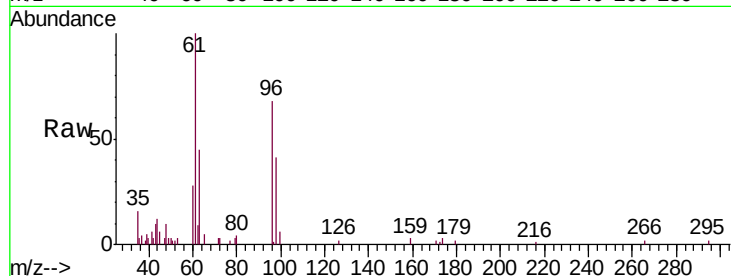
Tgt Ion: 61 Resp: 19657

Ion Ratio Lower Upper

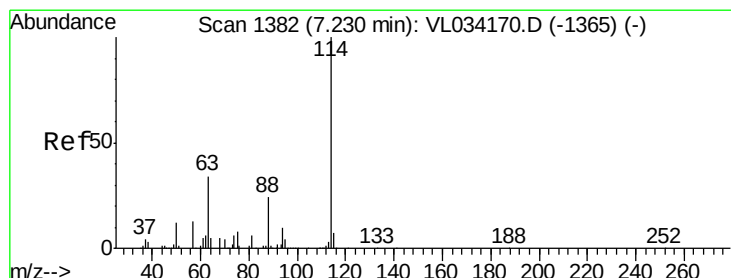
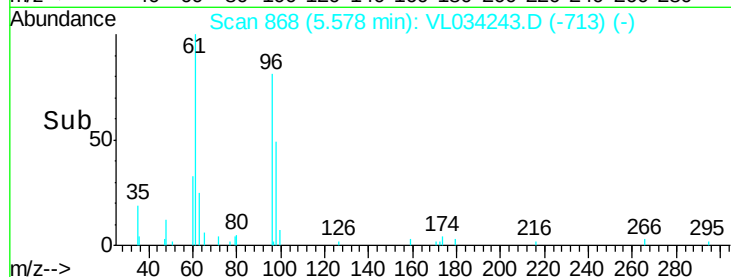
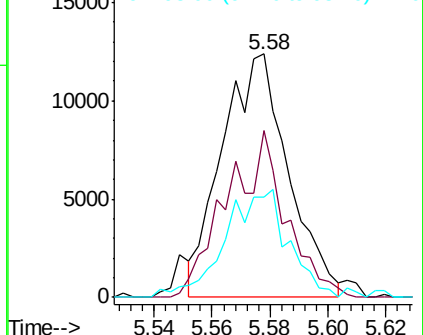
61 100

96 68.5 43.0 64.4#

98 43.5 27.2 40.8#



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.22 min Scan# 1378

Delta R.T. -0.01 min

Lab File: VL034243.D

Acq: 8 Oct 2019 4:58

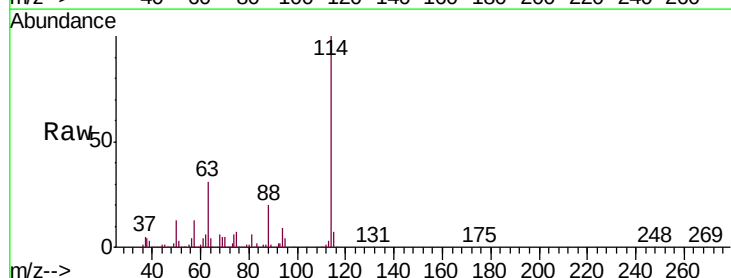
Tgt Ion: 114 Resp: 1799187

Ion Ratio Lower Upper

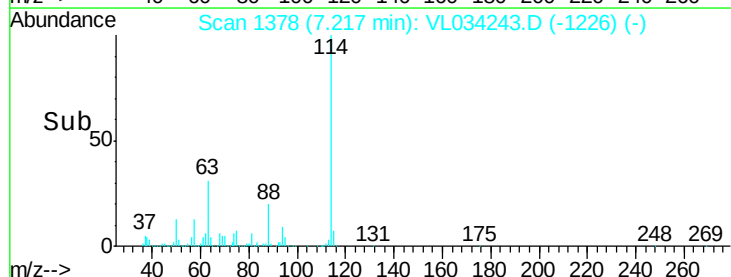
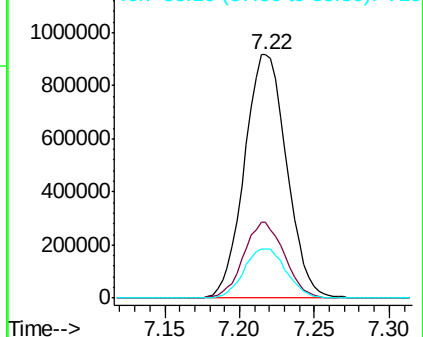
114 100

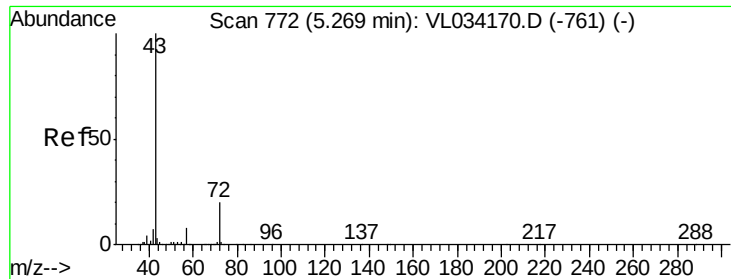
63 30.6 27.8 41.6

88 20.3 17.1 25.7



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

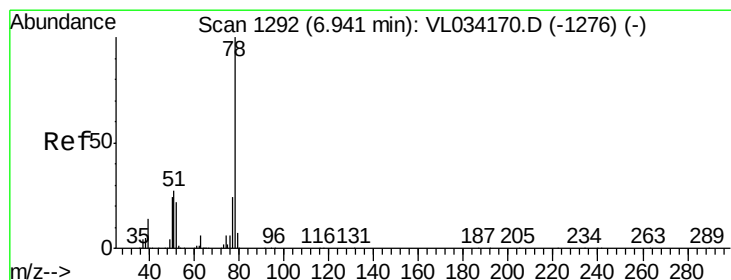
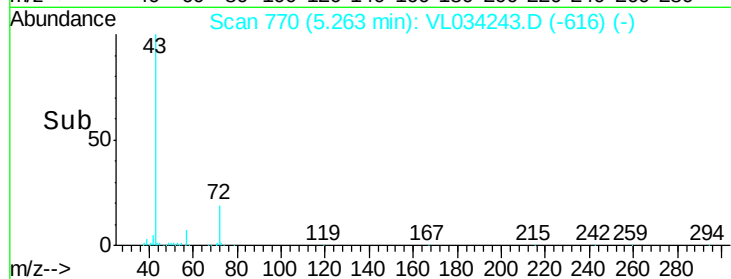
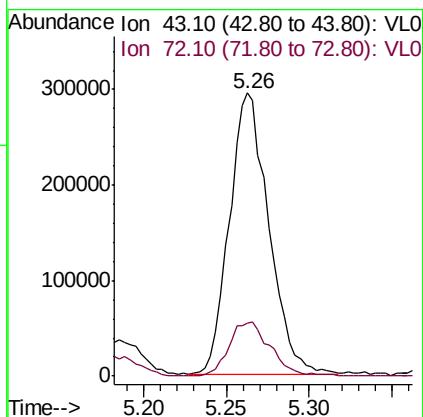
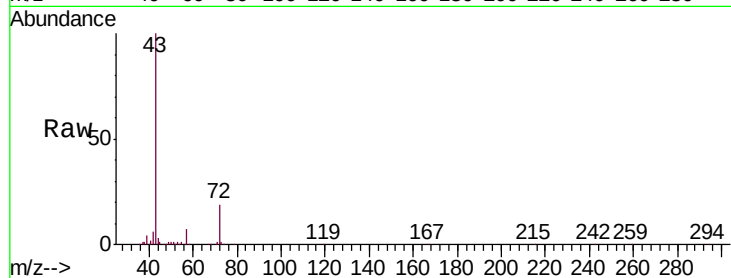




#34
2-Butanone
Concen: 2.649 ppbv
RT: 5.26 min Scan# 770
Delta R.T. -0.01 min
Lab File: VL034243.D
Acq: 8 Oct 2019 4:58

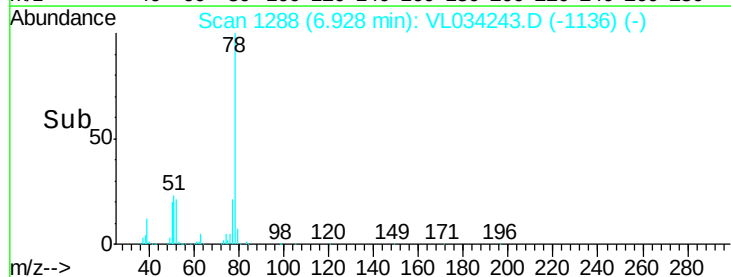
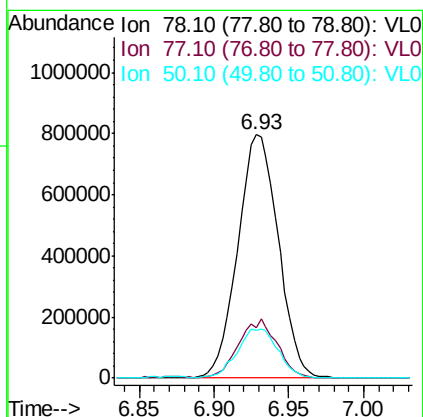
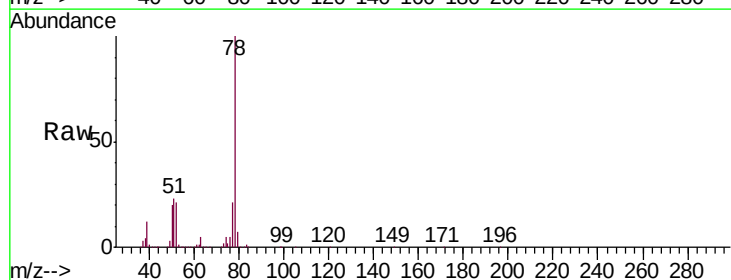
Instrument :
MSVOA_L
ClientSampleId :
V-4

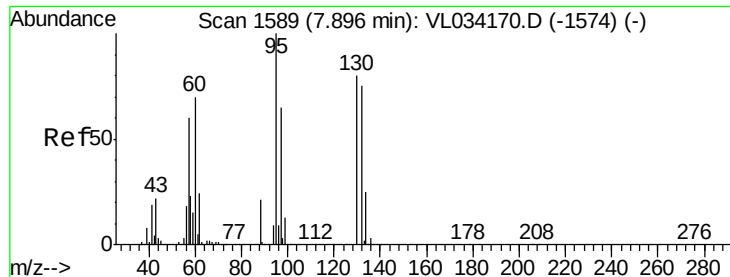
Tgt Ion: 43 Resp: 486637
Ion Ratio Lower Upper
43 100
72 20.2 15.0 22.6



#36
Benzene
Concen: 7.536 ppbv
RT: 6.93 min Scan# 1288
Delta R.T. -0.01 min
Lab File: VL034243.D
Acq: 8 Oct 2019 4:58

Tgt Ion: 78 Resp: 1497499
Ion Ratio Lower Upper
78 100
77 20.8 19.0 28.4
50 19.6 18.9 28.3





#38

Trichloroethene

Concen: 0.046 ppbv

RT: 7.88 min Scan# 1584

Delta R.T. -0.02 min

Lab File: VL034243.D

Acq: 8 Oct 2019 4:58

Instrument :

MSVOA_L

ClientSampleId :

V-4

Tgt Ion:130 Resp: 3254

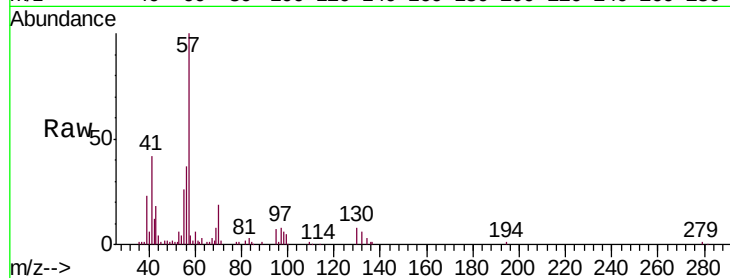
Ion Ratio Lower Upper

130 100

95 56.2 99.8 149.6#

132 48.1 75.2 112.8#

97 57.8 65.0 97.4#

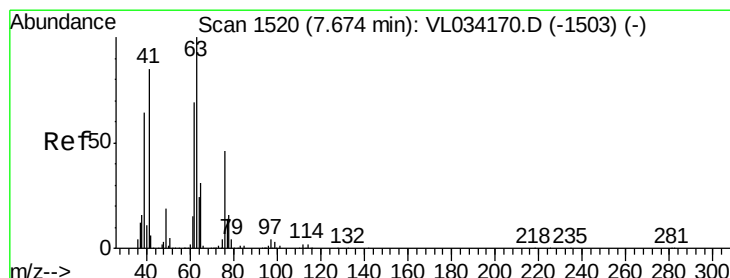
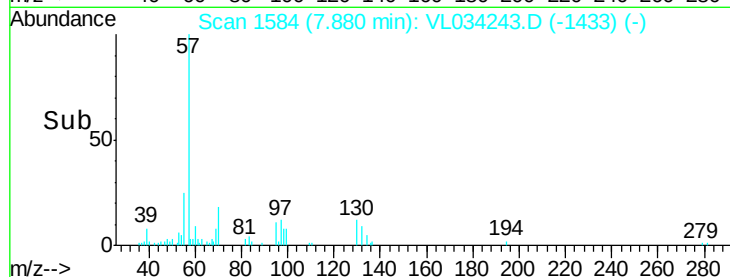
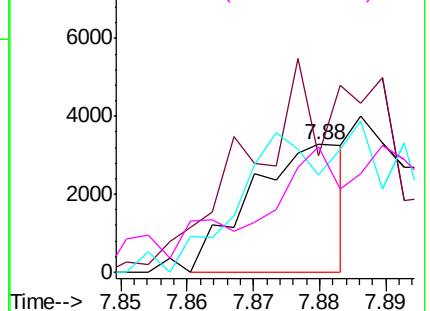


Abundance Ion 130.00 (129.70 to 130.70): V

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



#39

1,2-Dichloropropane

Concen: 5.998 ppbv

RT: 7.21 min Scan# 1377

Delta R.T. -0.46 min

Lab File: VL034243.D

Acq: 8 Oct 2019 4:58

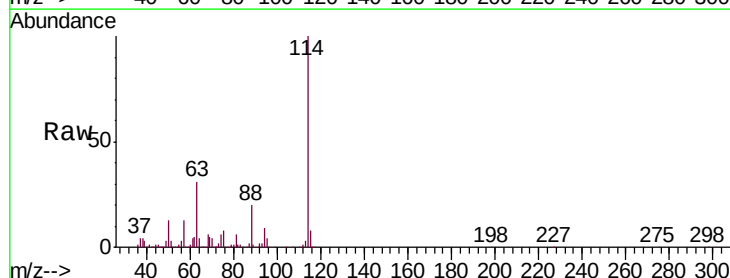
Tgt Ion: 63 Resp: 535509

Ion Ratio Lower Upper

63 100

41 0.0 68.4 102.6#

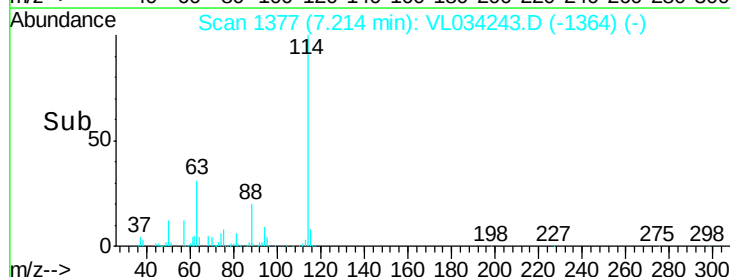
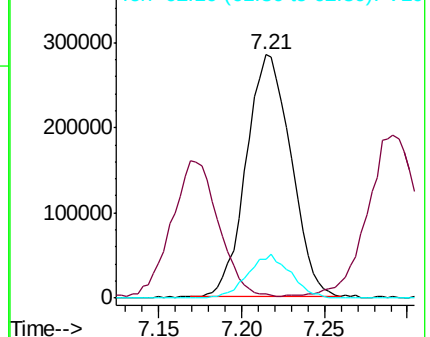
62 15.9 55.4 83.2#

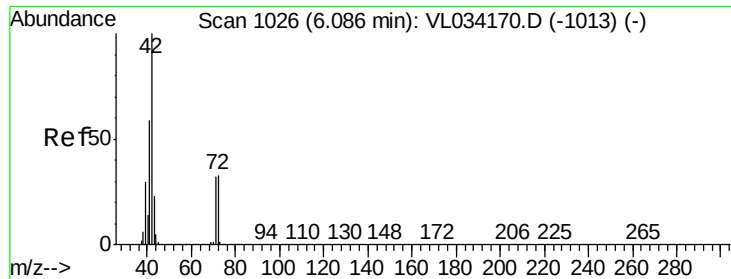


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

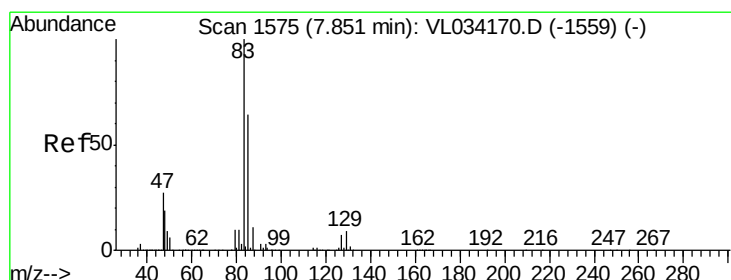
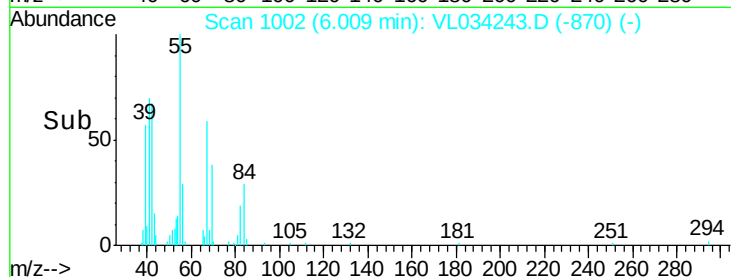
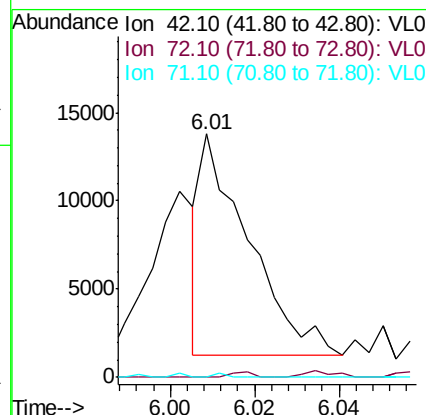
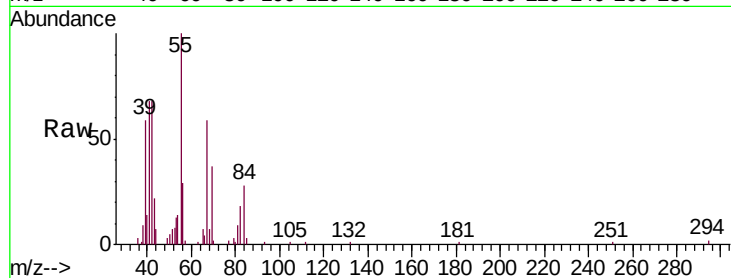




#41
Tetrahydrofuran
Concen: 0.096 ppbv
RT: 6.01 min Scan# 1002
Delta R.T. -0.08 min
Lab File: VL034243.D
Acq: 8 Oct 2019 4:58

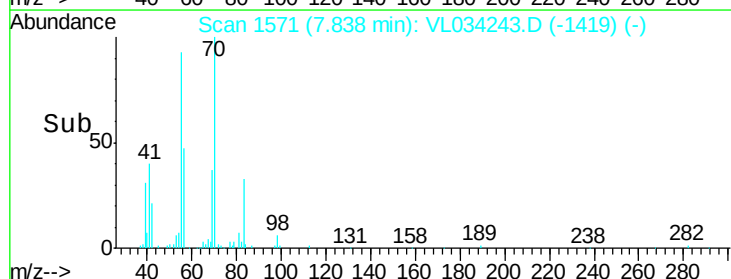
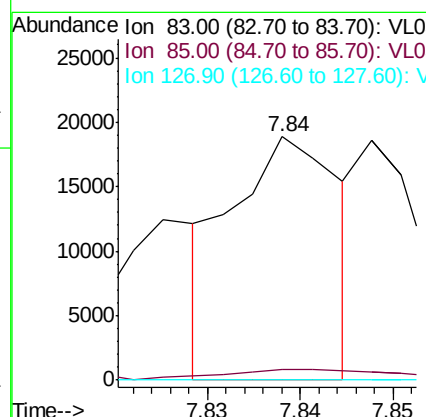
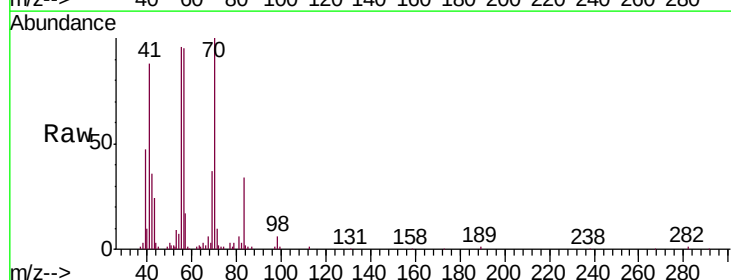
Instrument :
MSVOA_L
ClientSampleId :
V-4

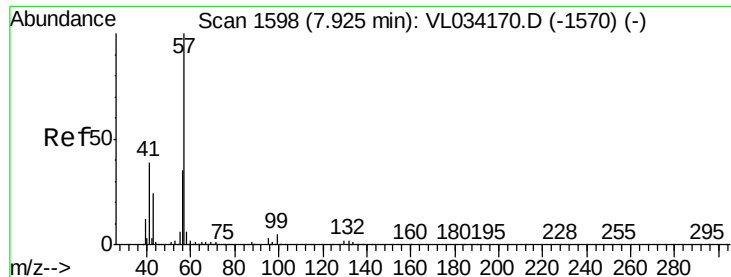
Tgt Ion: 42 Resp: 9907
Ion Ratio Lower Upper
42 100
72 51.5 26.6 40.0#
71 55.2 25.1 37.7#



#42
Bromodichloromethane
Concen: 0.090 ppbv
RT: 7.84 min Scan# 1571
Delta R.T. -0.01 min
Lab File: VL034243.D
Acq: 8 Oct 2019 4:58

Tgt Ion: 83 Resp: 15201
Ion Ratio Lower Upper
83 100
85 7.6 51.4 77.0#
127 0.0 5.5 8.3#

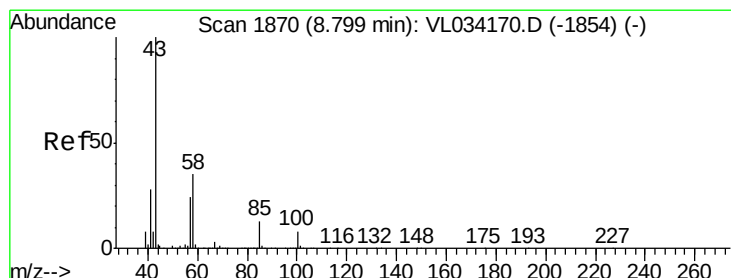
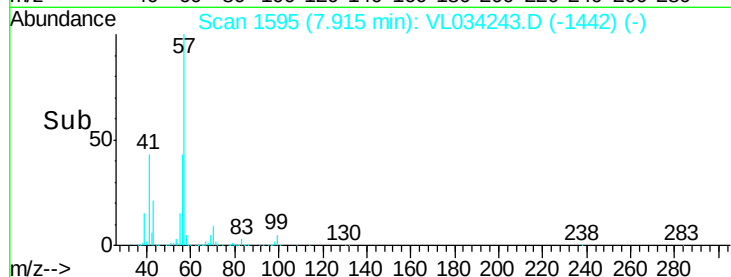
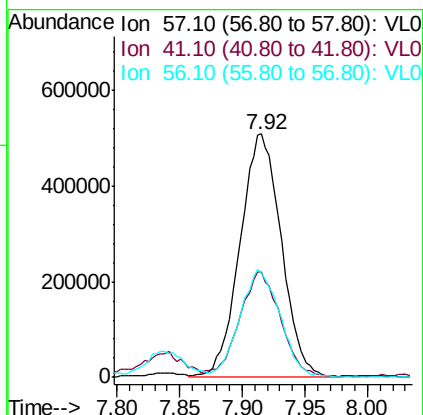
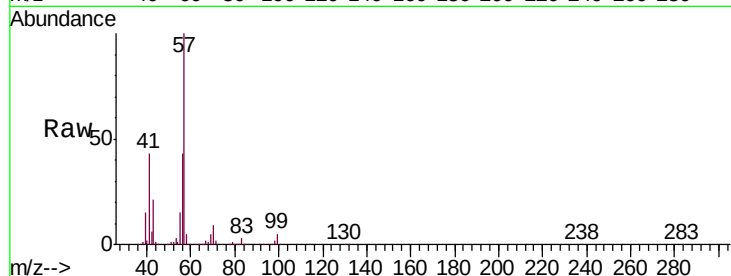




#44
 2,2,4-Trimethylpentane
 Concen: 3.033 ppbv
 RT: 7.92 min Scan# 1595
 Delta R.T. -0.01 min
 Lab File: VL034243.D
 Acq: 8 Oct 2019 4:58

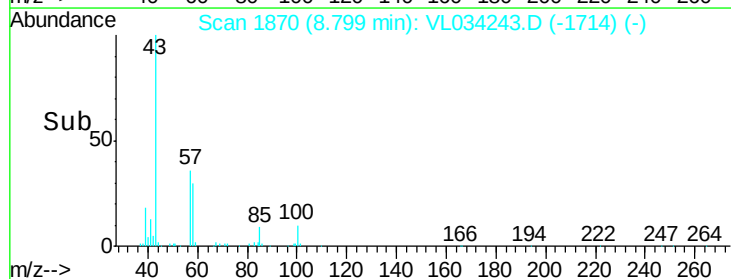
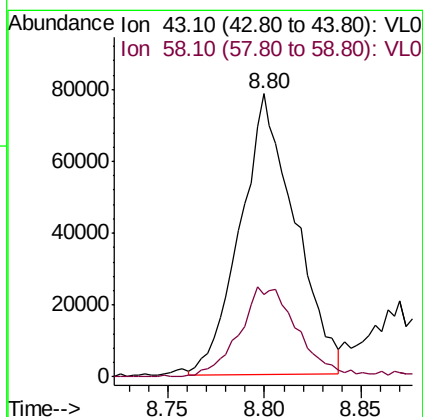
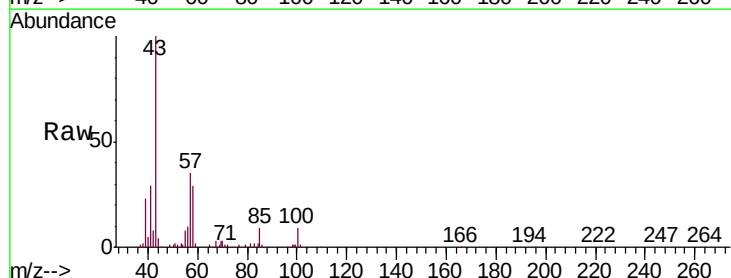
Instrument :
 MSVOA_L
 ClientSampleId :
 V-4

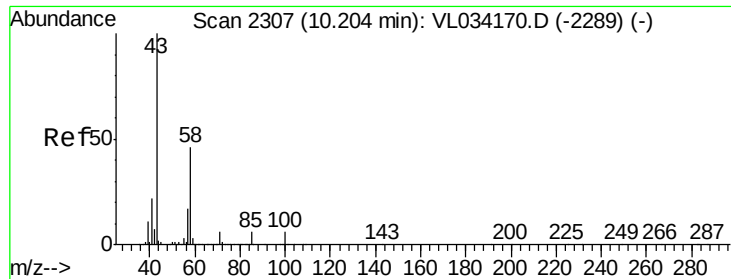
Tgt Ion: 57 Resp: 1160235
 Ion Ratio Lower Upper
 57 100
 41 42.9 29.8 44.6
 56 43.7 25.9 38.9#



#50
 4-Methyl-2-Pentanone
 Concen: 0.576 ppbv
 RT: 8.80 min Scan# 1870
 Delta R.T. 0.00 min
 Lab File: VL034243.D
 Acq: 8 Oct 2019 4:58

Tgt Ion: 43 Resp: 154064
 Ion Ratio Lower Upper
 43 100
 58 35.2 27.6 41.4

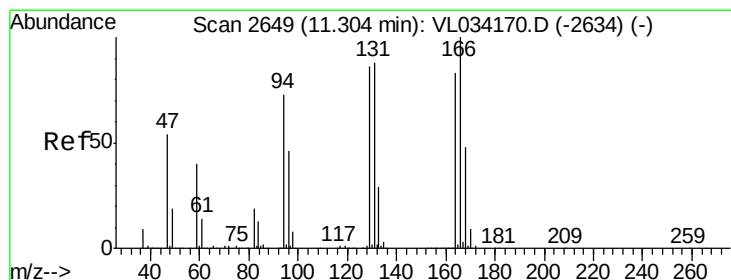
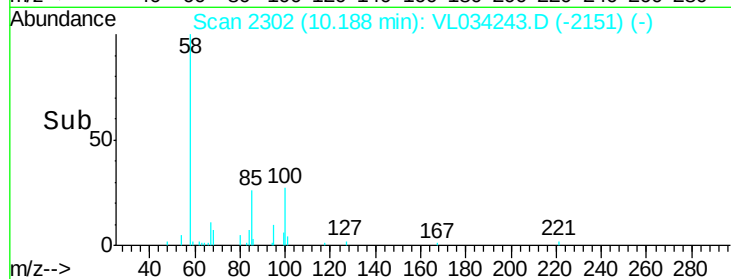
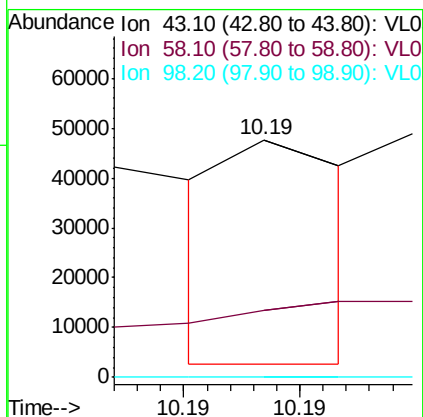
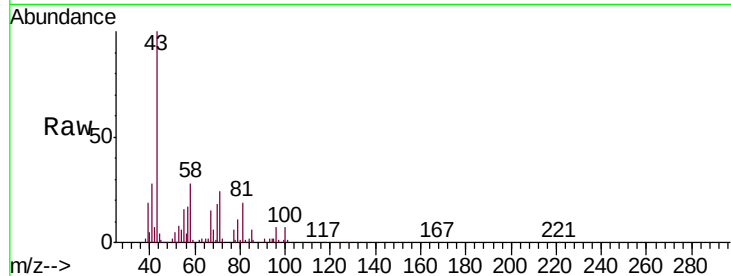




#51
2-Hexanone
Concen: 0.073 ppbv
RT: 10.19 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VL034243.D
Acq: 8 Oct 2019 4:58

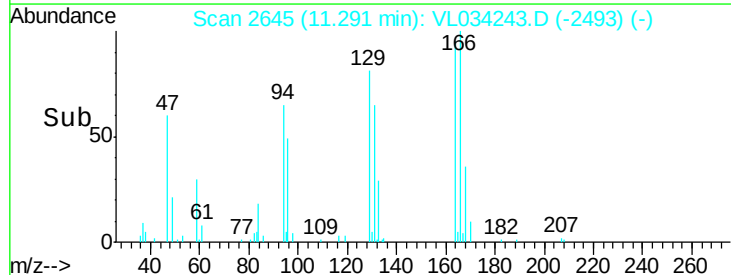
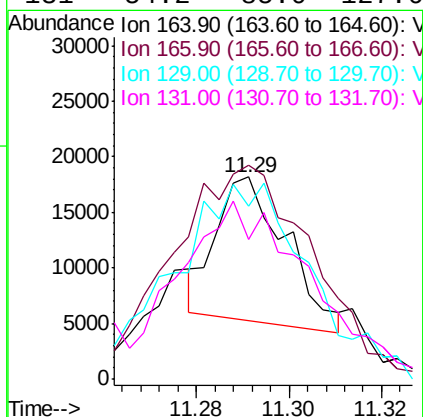
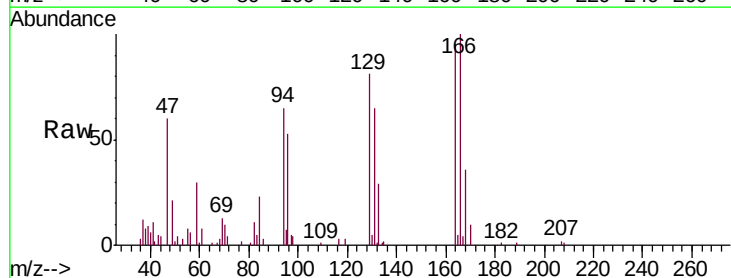
Instrument :
MSVOA_L
ClientSampled :
V-4

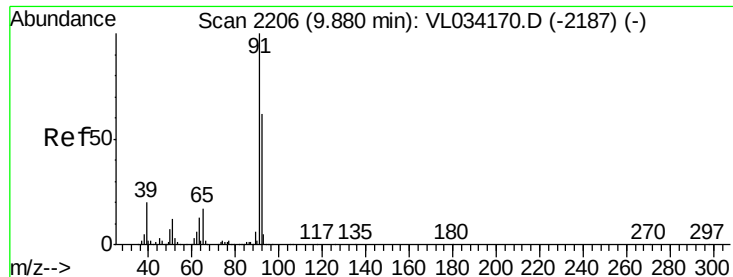
Tgt Ion: 43 Resp: 16369
Ion Ratio Lower Upper
43 100
58 0.0 36.2 54.4#
98 0.0 0.2 0.2#



#52
Tetrachloroethene
Concen: 0.204 ppbv
RT: 11.29 min Scan# 2645
Delta R.T. -0.01 min
Lab File: VL034243.D
Acq: 8 Oct 2019 4:58

Tgt Ion: 164 Resp: 13392
Ion Ratio Lower Upper
164 100
166 98.4 96.7 145.1
129 95.9 82.8 124.2
131 54.2 85.0 127.6#





#53

Toluene

Concen: 19.450 ppbv

RT: 9.86 min Scan# 2201

Delta R.T. -0.02 min

Lab File: VL034243.D

Acq: 8 Oct 2019 4:58

Instrument :

MSVOA_L

ClientSampleId :

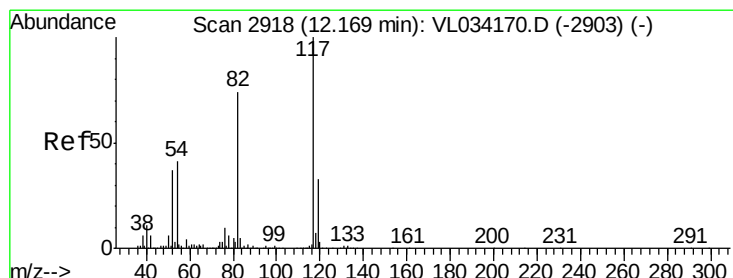
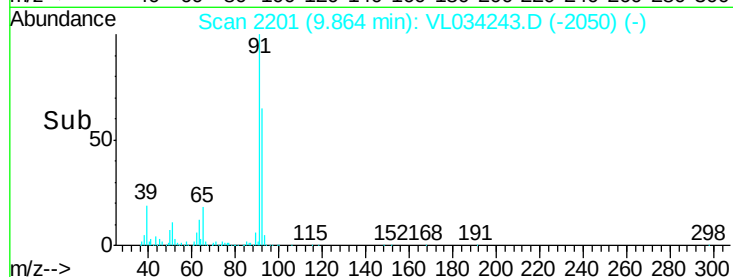
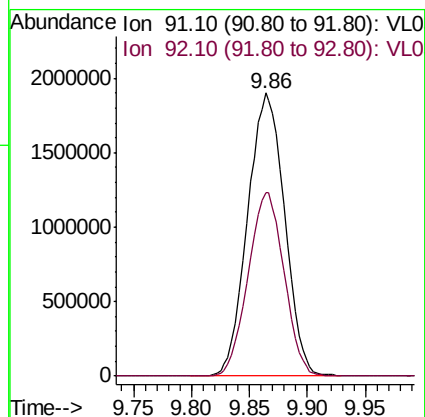
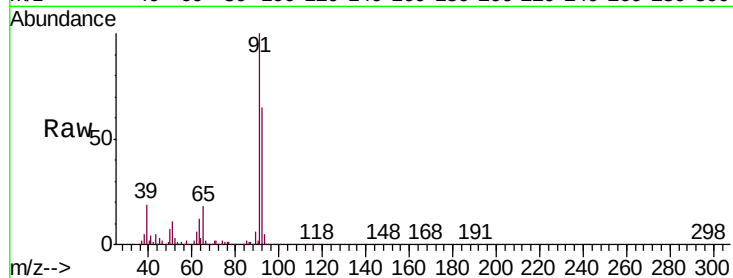
V-4

Tgt Ion: 91 Resp: 4223905

Ion Ratio Lower Upper

91 100

92 63.1 49.0 73.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.15 min Scan# 2913

Delta R.T. -0.02 min

Lab File: VL034243.D

Acq: 8 Oct 2019 4:58

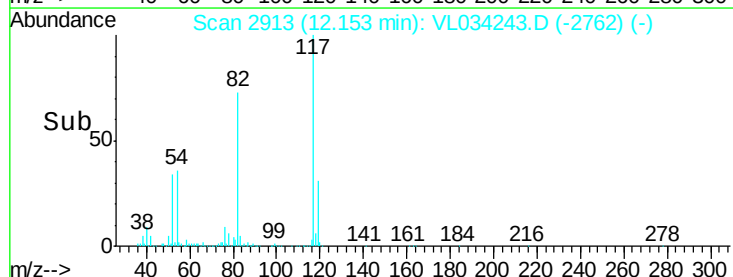
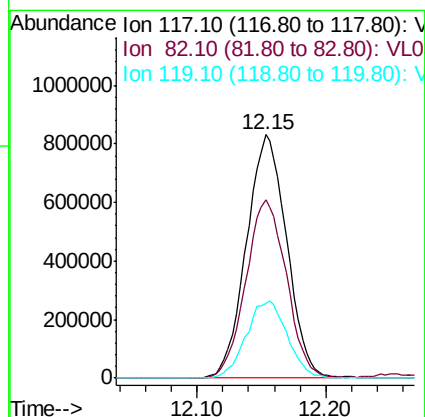
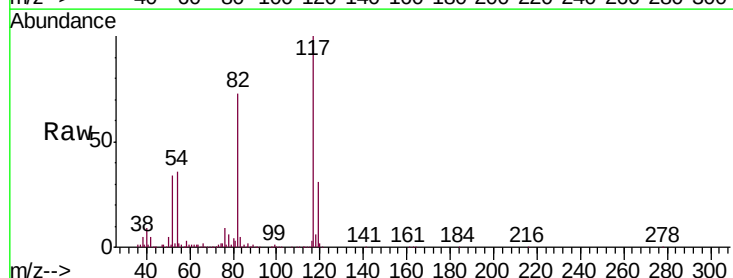
Tgt Ion: 117 Resp: 1808948

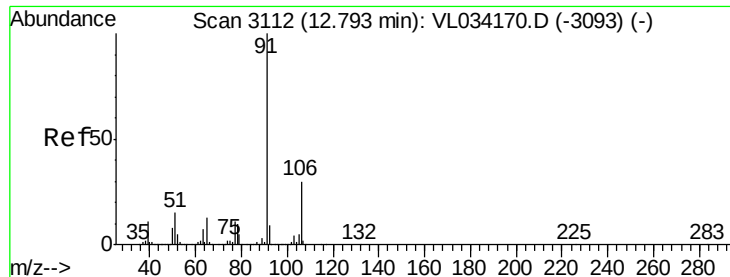
Ion Ratio Lower Upper

117 100

82 73.9 58.2 87.4

119 32.4 23.7 35.5

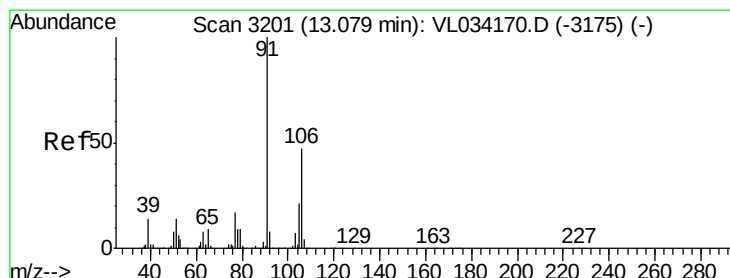
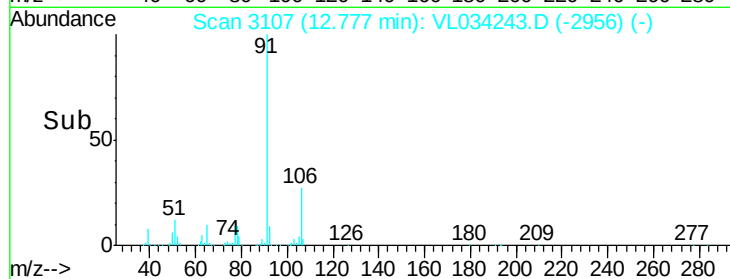
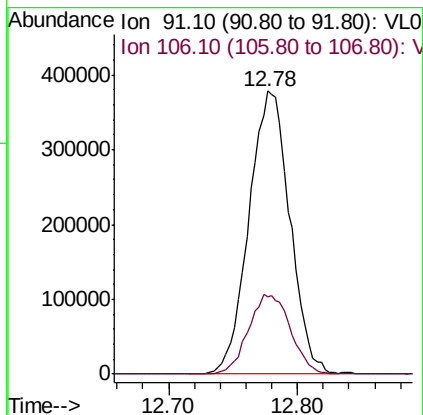
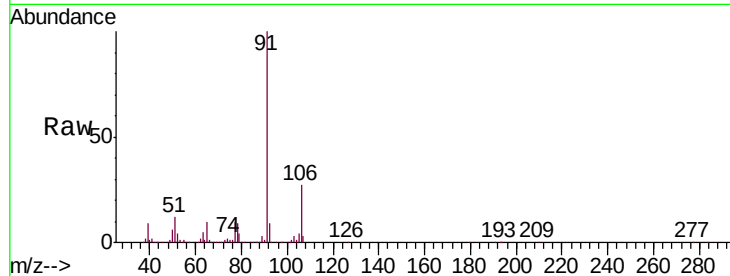




#58
Ethyl Benzene
Concen: 2.863 ppbv
RT: 12.78 min Scan# 3107
Delta R.T. -0.02 min
Lab File: VL034243.D
Acq: 8 Oct 2019 4:58

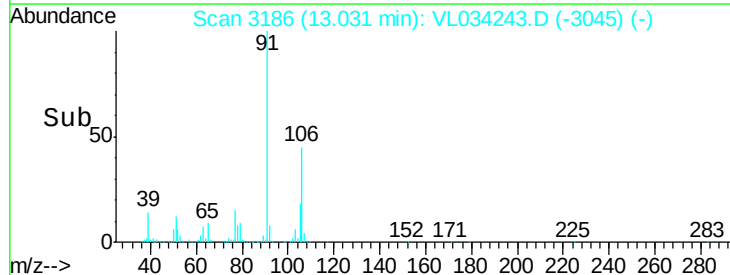
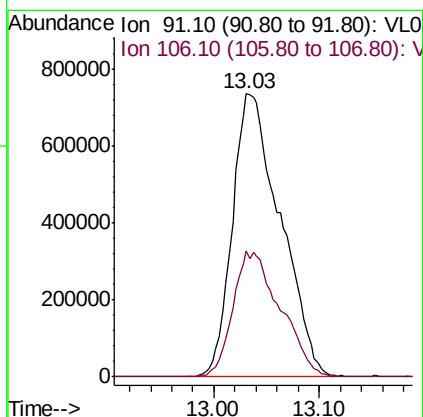
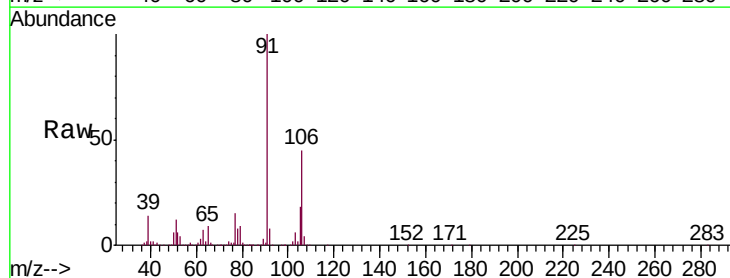
Instrument :
MSVOA_L
ClientSampleId :
V-4

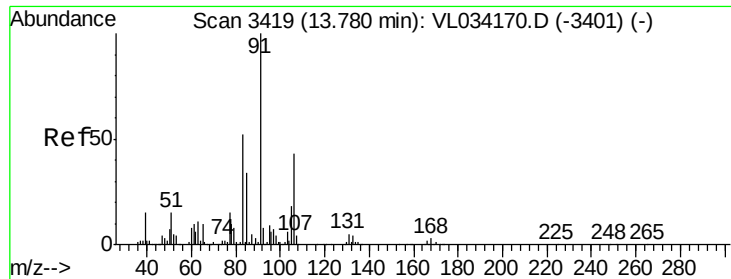
Tgt Ion: 91 Resp: 835662
Ion Ratio Lower Upper
91 100
106 27.4 24.2 36.4



#59
m/p-Xylene
Concen: 9.590 ppbv
RT: 13.03 min Scan# 3186
Delta R.T. -0.05 min
Lab File: VL034243.D
Acq: 8 Oct 2019 4:58

Tgt Ion: 91 Resp: 2318346
Ion Ratio Lower Upper
91 100
106 43.7 35.5 53.3





#60

o-Xylene

Concen: 3.632 ppbv

RT: 13.76 min Scan# 3414

Delta R.T. -0.02 min

Lab File: VL034243.D

Acq: 8 Oct 2019 4:58

Instrument :

MSVOA_L

ClientSampleId :

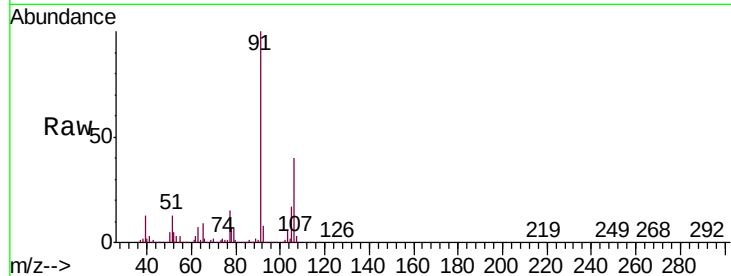
V-4

Tgt Ion: 91 Resp: 877947

Ion Ratio Lower Upper

91 100

106 41.8 21.2 63.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.76

400000

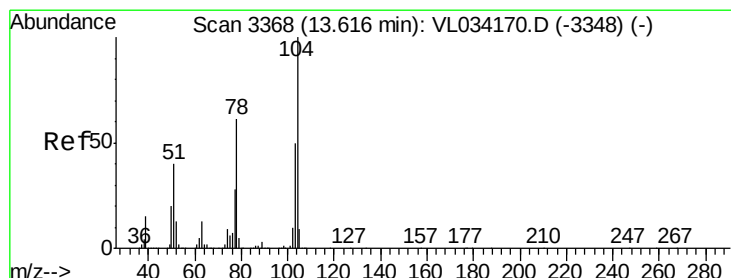
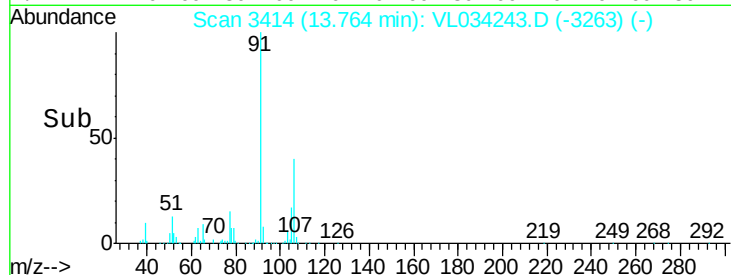
300000

200000

100000

0

Time-->



#61

Styrene

Concen: 0.391 ppbv

RT: 13.60 min Scan# 3363

Delta R.T. -0.02 min

Lab File: VL034243.D

Acq: 8 Oct 2019 4:58

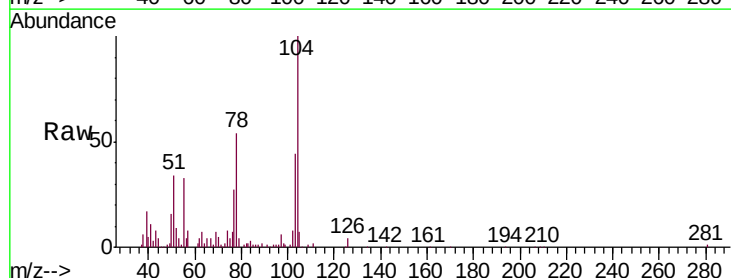
Tgt Ion: 104 Resp: 67766

Ion Ratio Lower Upper

104 100

78 0.0 49.7 74.5#

103 0.0 38.4 57.6#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V

13.60

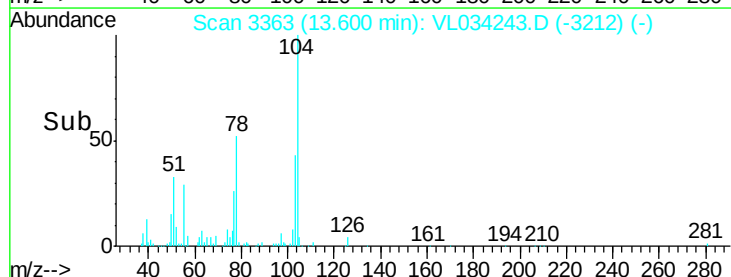
60000

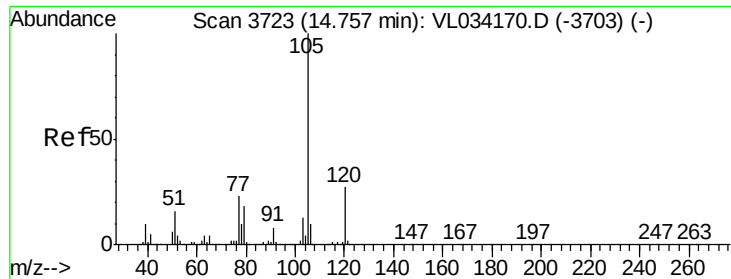
40000

20000

0

Time-->





#62

Isopropylbenzene

Concen: 0.097 ppbv

RT: 14.73 min Scan# 3716

Delta R.T. -0.02 min

Lab File: VL034243.D

Acq: 8 Oct 2019 4:58

Instrument :

MSVOA_L

ClientSampleId :

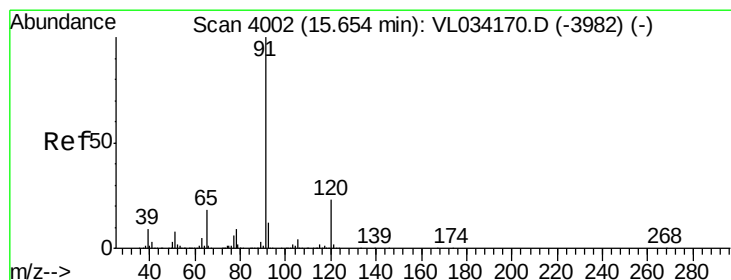
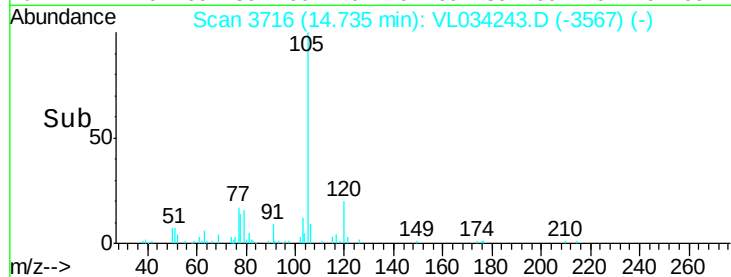
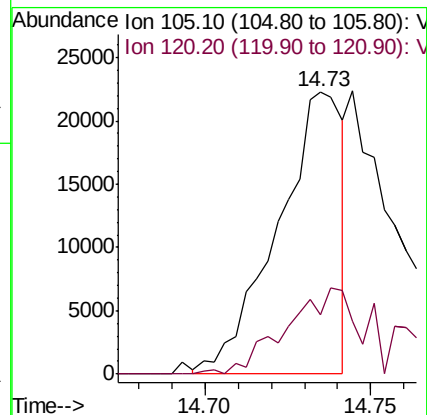
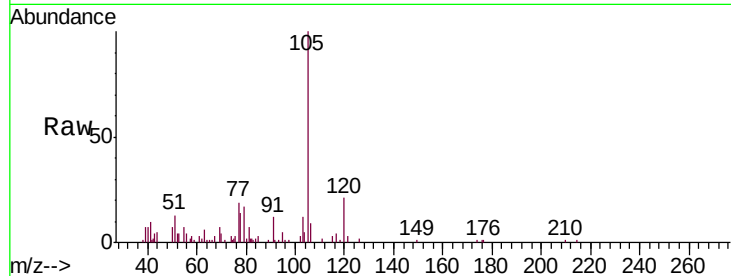
V-4

Tgt Ion:105 Resp: 30405

Ion Ratio Lower Upper

105 100

120 43.9 20.7 31.1#



#64

n-propylbenzene

Concen: 0.294 ppbv

RT: 15.64 min Scan# 3998

Delta R.T. -0.01 min

Lab File: VL034243.D

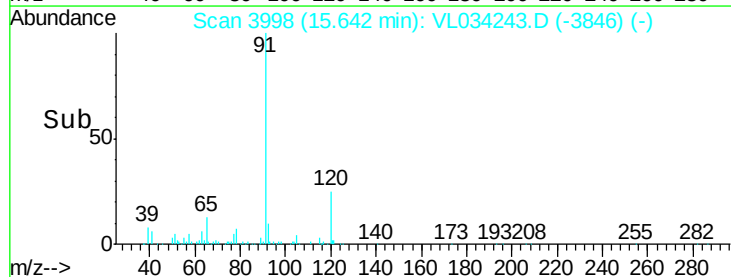
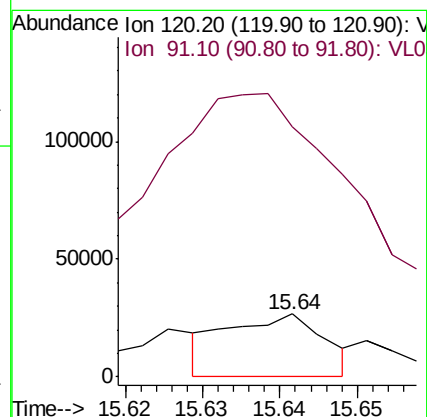
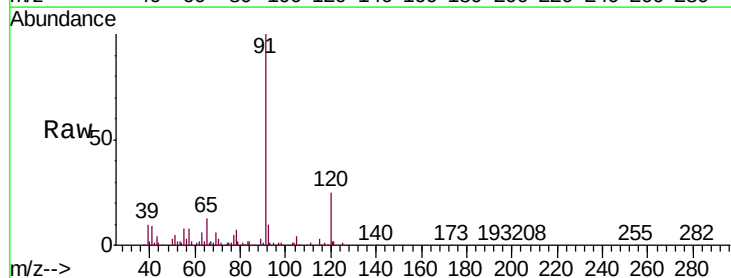
Acq: 8 Oct 2019 4:58

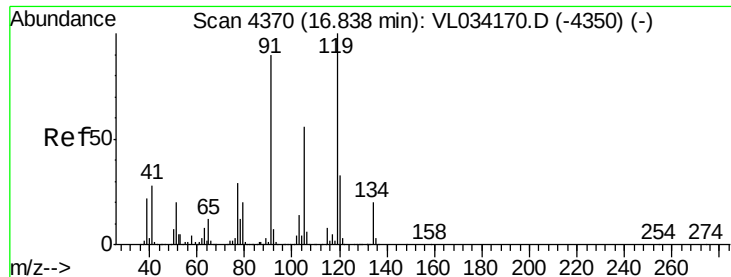
Tgt Ion:120 Resp: 23253

Ion Ratio Lower Upper

120 100

91 1185.1 378.2 567.2#

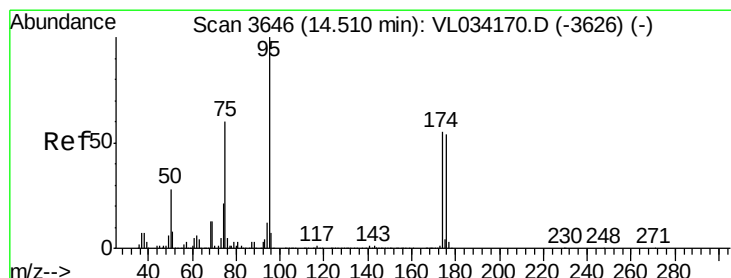
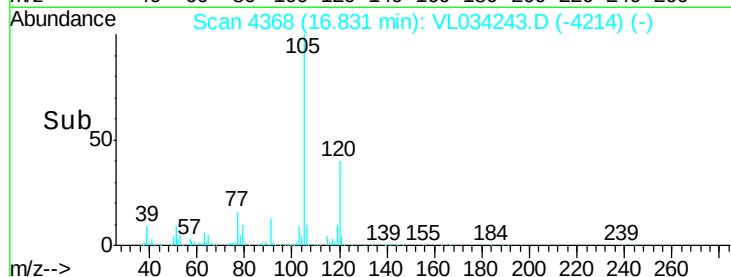
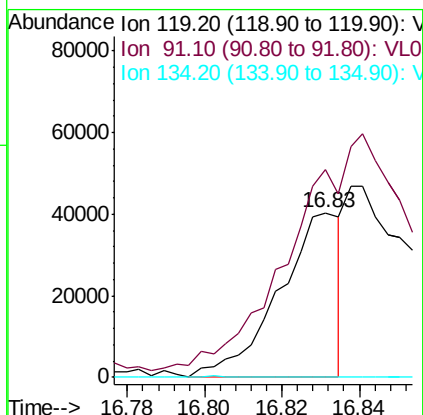
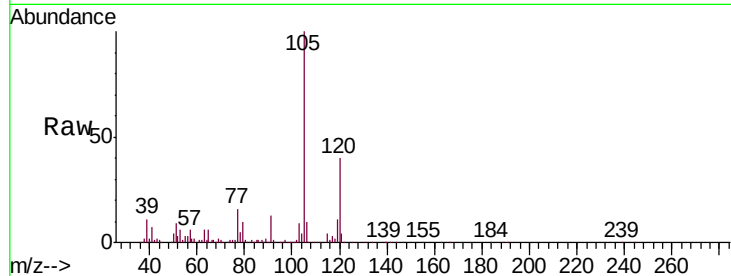




#65
 tert-Butylbenzene
 Concen: 0.163 ppbv
 RT: 16.83 min Scan# 4368
 Delta R.T. -0.01 min
 Lab File: VL034243.D
 Acq: 8 Oct 2019 4:58

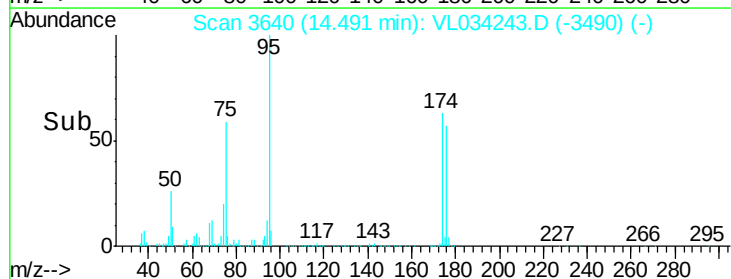
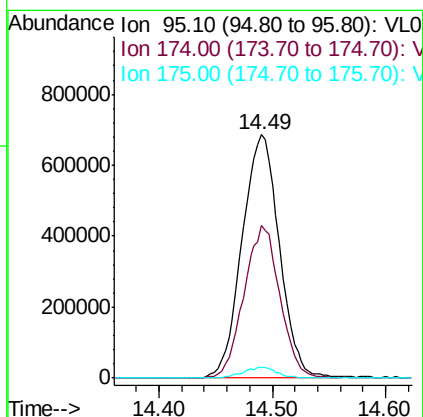
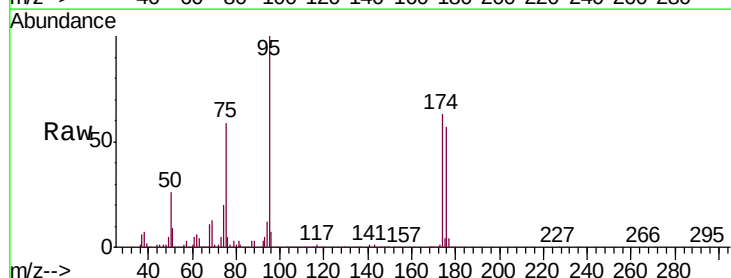
Instrument :
 MSVOA_L
 ClientSampleId :
 V-4

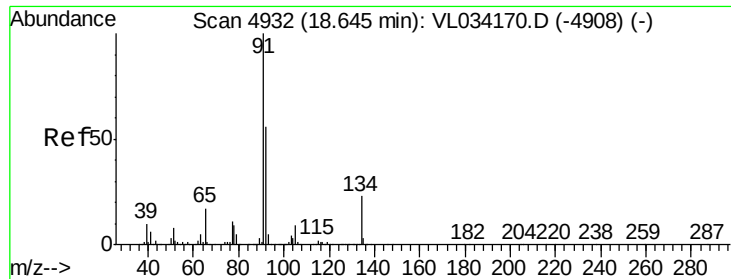
Tgt Ion: 119 Resp: 44529
 Ion Ratio Lower Upper
 119 100
 91 0.0 74.9 112.3#
 134 0.0 15.8 23.6#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.991 ppbv
 RT: 14.49 min Scan# 3640
 Delta R.T. -0.02 min
 Lab File: VL034243.D
 Acq: 8 Oct 2019 4:58

Tgt Ion: 95 Resp: 1570462
 Ion Ratio Lower Upper
 95 100
 174 60.6 45.1 67.7
 175 4.2 3.3 4.9

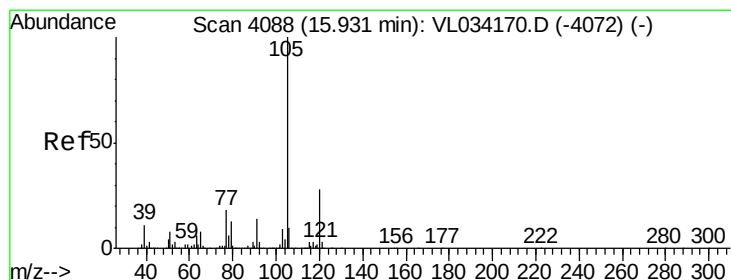
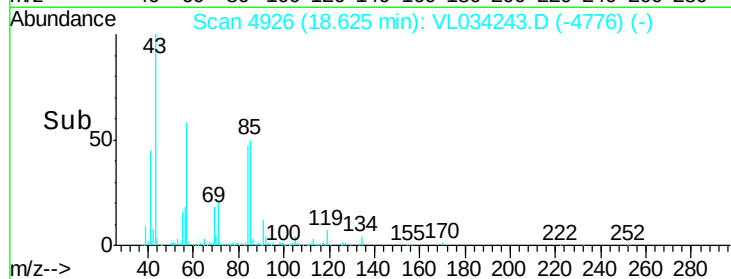
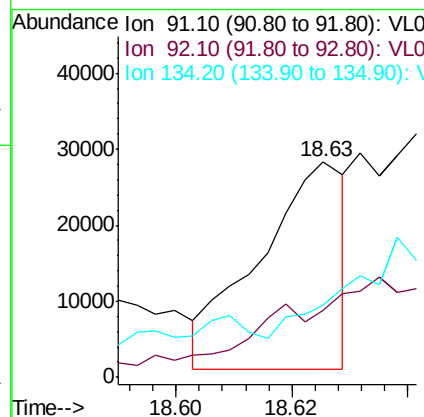
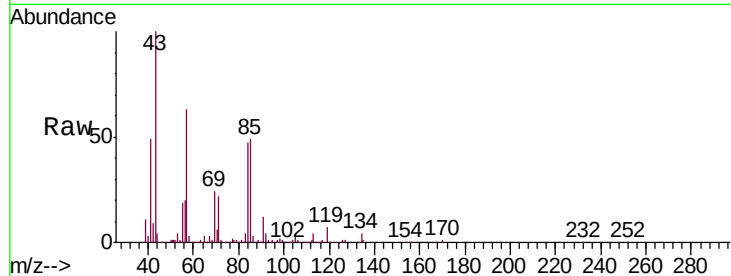




#70
n-Butylbenzene
Concen: 0.076 ppbv
RT: 18.63 min Scan# 4926
Delta R.T. -0.02 min
Lab File: VL034243.D
Acq: 8 Oct 2019 4:58

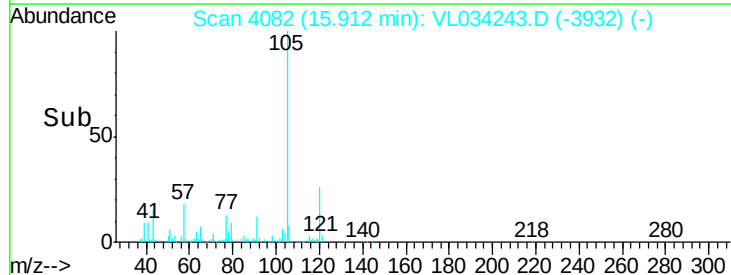
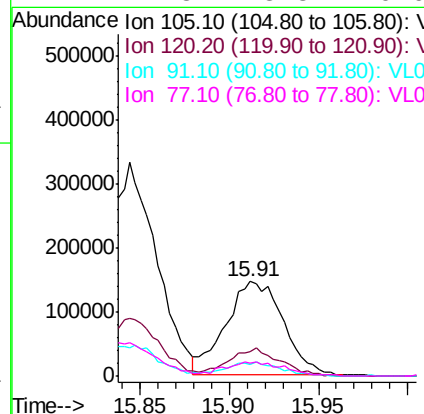
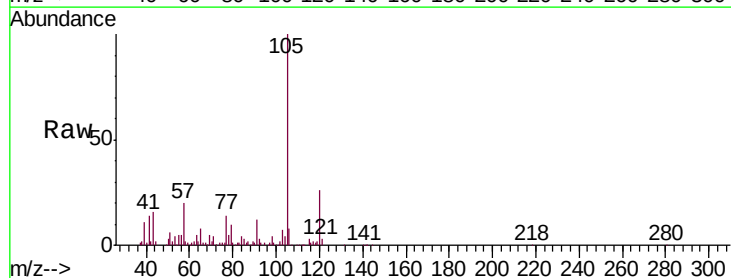
Instrument :
MSVOA_L
ClientSampleId :
V-4

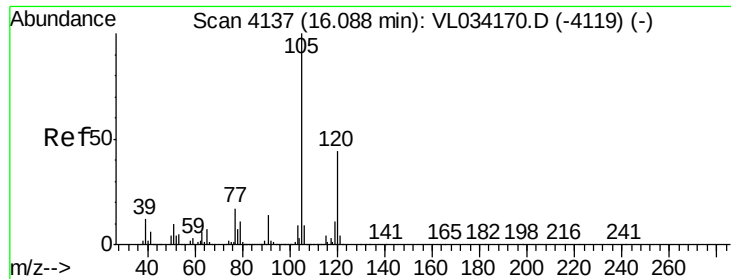
Tgt Ion: 91 Resp: 28161
Ion Ratio Lower Upper
91 100
92 0.0 44.8 67.2#
134 0.0 17.3 25.9#



#72
4-Ethyltoluene
Concen: 1.206 ppbv
RT: 15.91 min Scan# 4082
Delta R.T. -0.02 min
Lab File: VL034243.D
Acq: 8 Oct 2019 4:58

Tgt Ion: 105 Resp: 329252
Ion Ratio Lower Upper
105 100
120 26.4 23.3 34.9
91 13.2 11.4 17.2
77 14.8 13.3 19.9





#73

1,3,5-Trimethylbenzene

Concen: 1.114 ppbv

RT: 16.08 min Scan# 4133

Delta R.T. -0.01 min

Lab File: VL034243.D

Acq: 8 Oct 2019 4:58

Instrument :

MSVOA_L

ClientSampled :

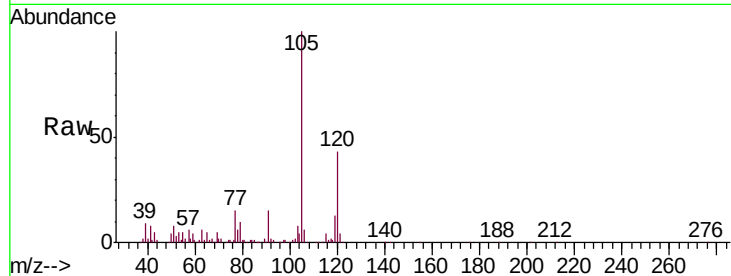
V-4

Tgt Ion:105 Resp: 293895

Ion Ratio Lower Upper

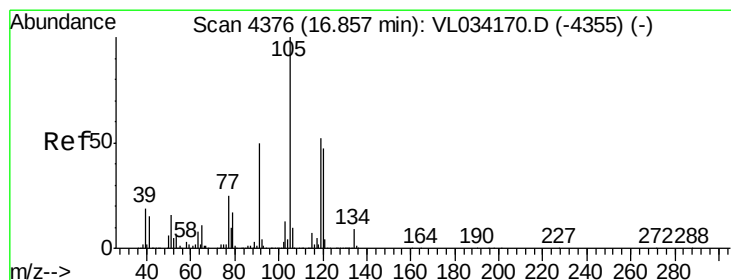
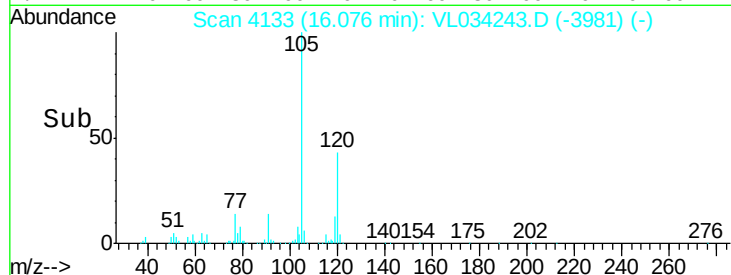
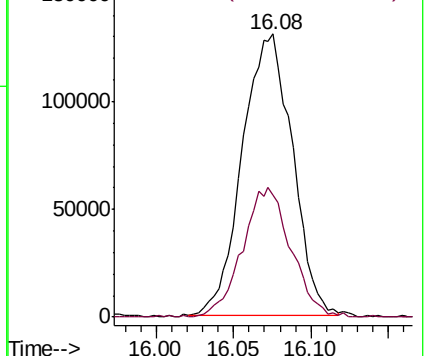
105 100

120 43.4 35.6 53.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 3.634 ppbv

RT: 16.84 min Scan# 4371

Delta R.T. -0.02 min

Lab File: VL034243.D

Acq: 8 Oct 2019 4:58

Tgt Ion:105 Resp: 1018097

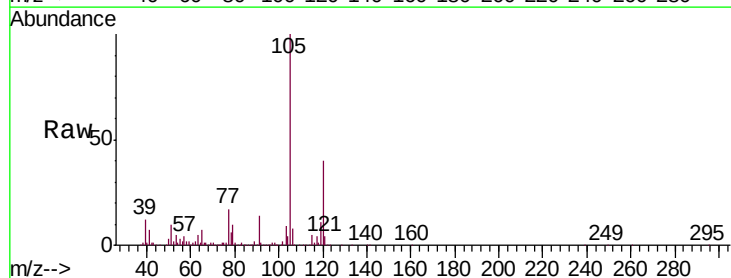
Ion Ratio Lower Upper

105 100

120 40.0 37.5 56.3

91 13.5 41.1 61.7#

77 16.6 19.9 29.9#

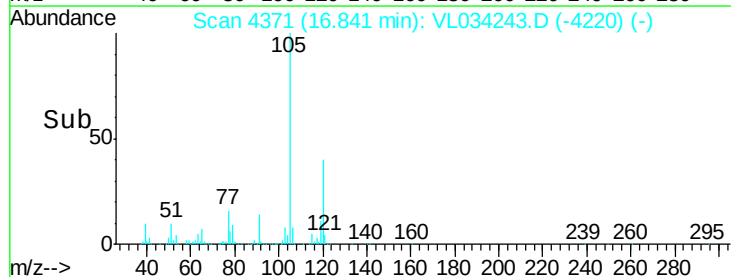
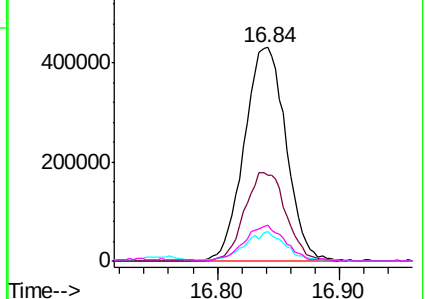


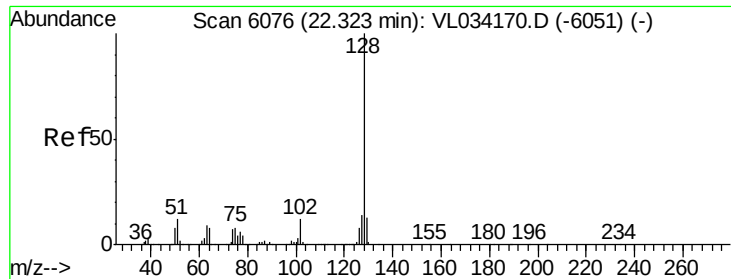
Abundance Ion 105.10 (104.80 to 105.80): V

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





#79

Naphthalene

Concen: 0.251 ppbv

RT: 22.32 min Scan# 6074

Delta R.T. -0.01 min

Lab File: VL034243.D

Acq: 8 Oct 2019 4:58

Instrument :

MSVOA_L

ClientSampleId :

V-4

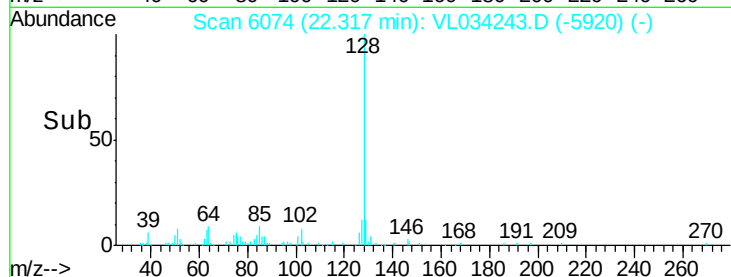
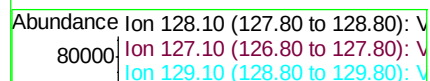
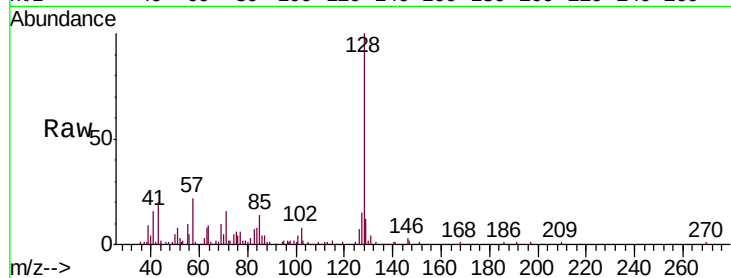
Tgt Ion:128 Resp: 62009

Ion Ratio Lower Upper

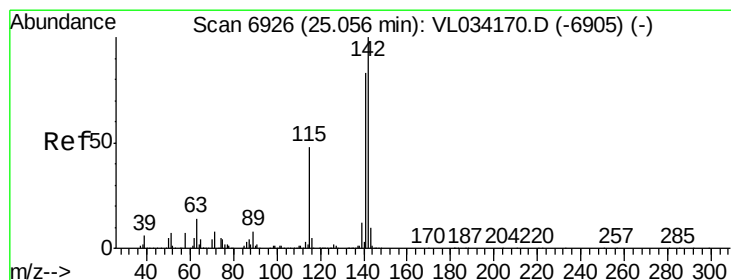
128 100

127 13.0 11.1 16.7

129 11.1 10.2 15.4



Time-->



#80

Naphthalene, 2-methyl-

Concen: 0.112 ppbv

RT: 25.37 min Scan# 7024

Delta R.T. 0.32 min

Lab File: VL034243.D

Acq: 8 Oct 2019 4:58

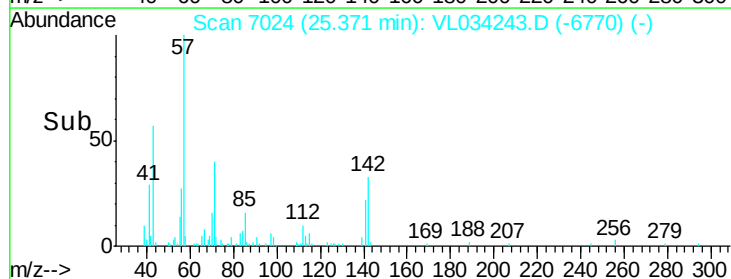
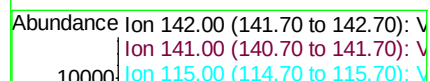
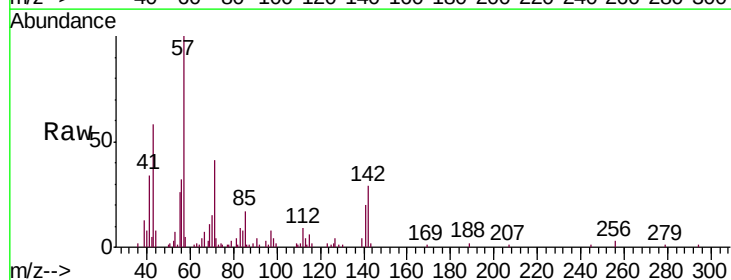
Tgt Ion:142 Resp: 12844

Ion Ratio Lower Upper

142 100

141 95.4 67.6 101.4

115 51.2 36.9 55.3



Time-->