

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100719\
 Data File : VL034239.D
 Acq On : 8 Oct 2019 2:17
 Operator : SY/AP
 Sample : K5222-02
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 V-2

Quant Time: Oct 09 02:23:27 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	1098533	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	1854208	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.16	117	1885269	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1700780	10.38	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	102872	0.634	ppbv	98
3) Chlorodifluoromethane	2.94	51	181274	1.407	ppbv #	74
4) Chloromethane	3.12	50	85889	1.135	ppbv #	85
5) Vinyl Chloride	3.24	62	22574	0.326	ppbv #	80
7) Chloroethane	3.55	64	2684	0.111	ppbv	98
9) Propene	2.99	41	748421	11.777	ppbv	95
10) Heptane	8.17	43	803203	4.850	ppbv	98
11) Trichlorofluoromethane	3.95	101	39213	0.265	ppbv	88
13) Ethanol	3.60	45	1308378	85.025	ppbv	97
15) Acetone	3.84	43	1393813	9.467	ppbv #	73
16) 1,3-Butadiene	3.31	39	117175	1.824	ppbv #	45
17) tert-Butyl alcohol	4.31	59	3942	0.042	ppbv #	71
19) Isopropyl Alcohol	3.97	45	154916	1.711	ppbv #	1
20) Methylene Chloride	4.35	84	162030	3.817	ppbv #	95
21) Allyl Chloride	4.38	41	188310	2.264	ppbv #	55
23) Vinyl Acetate	5.08	43	662255	3.052	ppbv #	1
25) Ethyl Acetate	5.71	43	945462	3.396	ppbv #	83
26) Hexane	5.71	57	1036098	8.946	ppbv #	47
27) Carbon Disulfide	4.56	76	4603	0.043	ppbv #	60
29) Chloroform	5.78	83	9169	0.055	ppbv	99
30) Cyclohexane	7.17	84	346860	4.148	ppbv	96
31) cis-1,2-Dichloroethene	5.58	61	68535	0.580	ppbv #	76
34) 2-Butanone	5.27	43	233451	1.233	ppbv	96
35) Carbon Tetrachloride	7.06	117	10466	0.068	ppbv #	79
36) Benzene	6.93	78	1164894	5.688	ppbv	99
38) Trichloroethene	7.88	130	3956	0.054	ppbv #	1
39) 1,2-Dichloropropane	7.21	63	610169	6.631	ppbv #	19
41) Tetrahydrofuran	6.01	42	8709	0.082	ppbv	95
42) Bromodichloromethane	7.84	83	23581	0.135	ppbv #	27
44) 2,2,4-Trimethylpentane	7.92	57	1155049	2.930	ppbv #	82
50) 4-Methyl-2-Pentanone	8.80	43	10762	0.039	ppbv #	40
51) 2-Hexanone	10.17	43	48694	0.211	ppbv #	31
52) Tetrachloroethene	11.29	164	47281	0.699	ppbv	97
53) Toluene	9.87	91	4392233	19.625	ppbv	97
58) Ethyl Benzene	12.78	91	739500	2.431	ppbv	93
59) m/p-Xylene	13.03	91	2056806	8.163	ppbv	97
60) o-Xylene	13.76	91	791492	3.142	ppbv	95
61) Styrene	13.60	104	87263	0.484	ppbv	97
62) Isopropylbenzene	14.74	105	21692	0.067	ppbv #	49
64) n-propylbenzene	15.64	120	28490	0.345	ppbv #	1
65) tert-Butylbenzene	16.84	119	94113	0.330	ppbv #	58

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Quant Time: Oct 09 02:23:27 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Wed Sep 18 12:53:31 2019
QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration

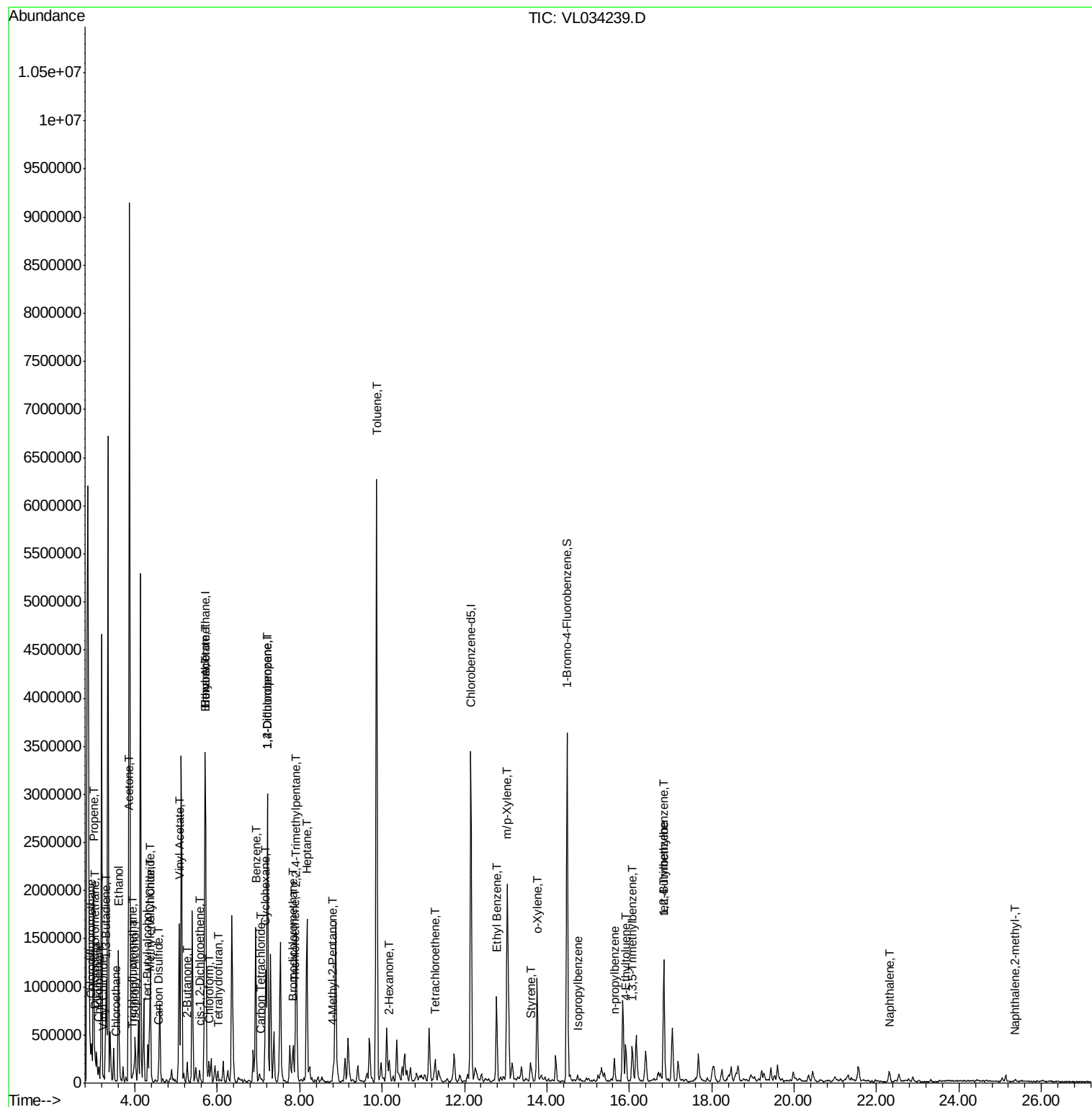
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	15.91	105	277574	0.975	ppbv	98
73) 1,3,5-Trimethylbenzene	16.07	105	250059	0.909	ppbv	98
74) 1,2,4-Trimethylbenzene	16.84	105	901950	3.089	ppbv #	68
79) Naphthalene	22.30	128	53213	0.207	ppbv #	92
80) Naphthalene,2-methyl-	25.36	142	9835	0.082	ppbv	98

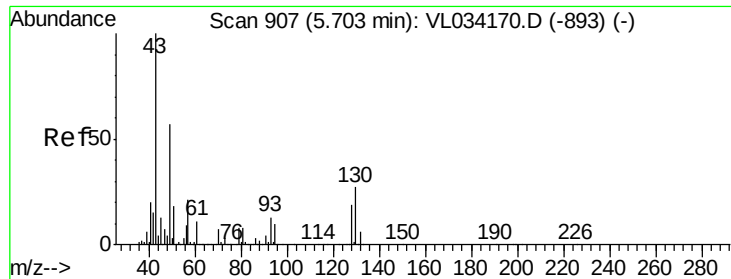
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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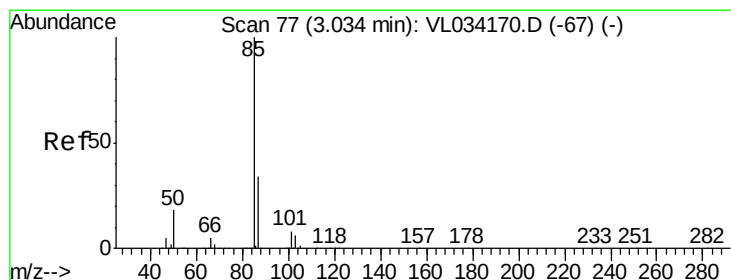
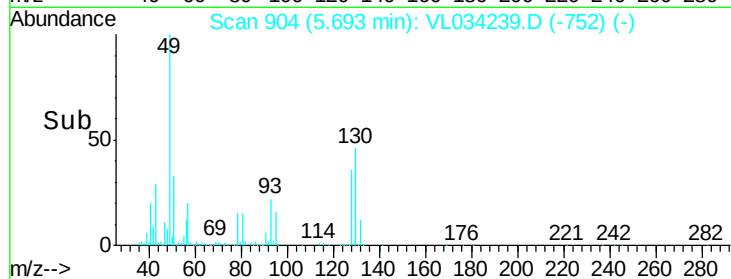
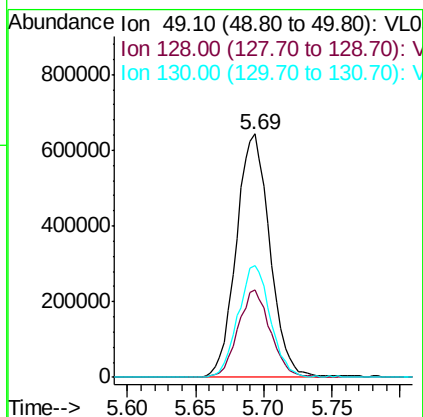
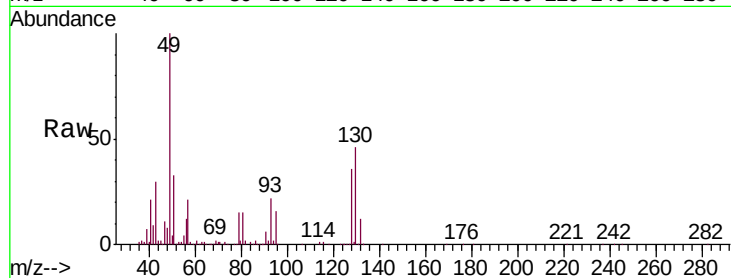




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.69 min Scan# 904
 Delta R.T. -0.01 min
 Lab File: VL034239.D
 Acq: 8 Oct 2019 2:17

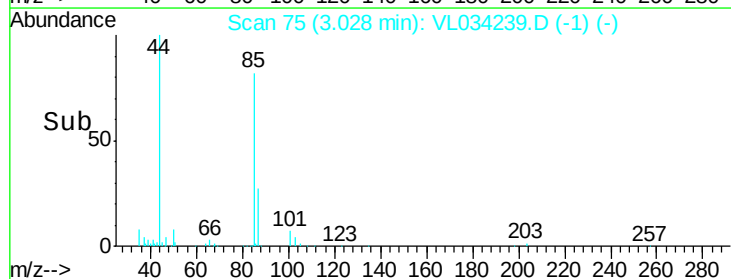
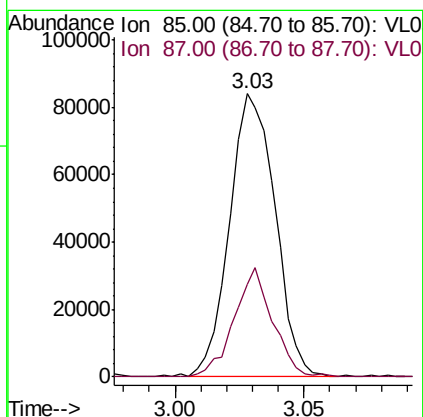
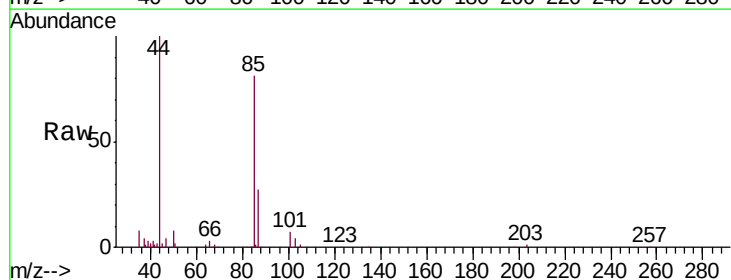
Instrument :
 MSVOA_L
 ClientSampled :
 V-2

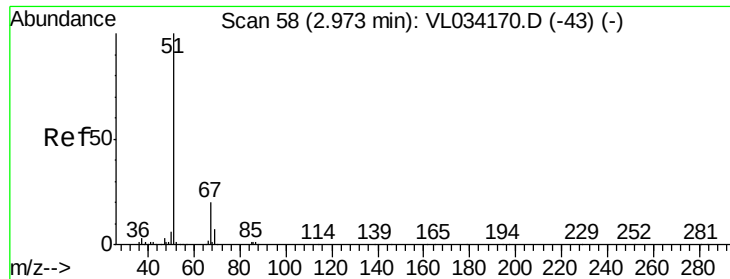
Tgt Ion: 49 Resp: 1098533
 Ion Ratio Lower Upper
 49 100
 128 34.6 17.6 52.9
 130 44.6 22.3 66.9



#2
 Dichlorodifluoromethane
 Concen: 0.634 ppbv
 RT: 3.03 min Scan# 75
 Delta R.T. -0.01 min
 Lab File: VL034239.D
 Acq: 8 Oct 2019 2:17

Tgt Ion: 85 Resp: 102872
 Ion Ratio Lower Upper
 85 100
 87 32.8 27.2 40.8





#3

Chlorodifluoromethane

Concen: 1.407 ppbv

RT: 2.94 min Scan# 49

Delta R.T. -0.03 min

Lab File: VL034239.D

Acq: 8 Oct 2019 2:17

Instrument :

MSVOA_L

ClientSampleId :

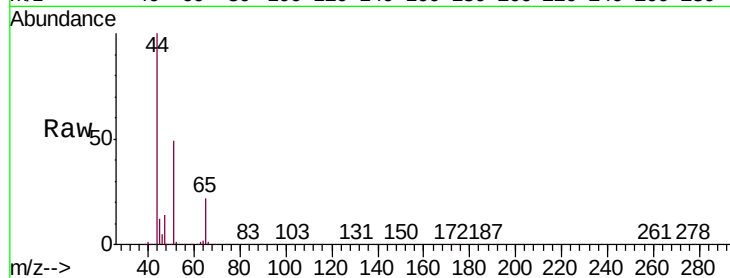
V-2

Tgt Ion: 51 Resp: 181274

Ion Ratio Lower Upper

51 100

67 6.9 14.8 22.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.94

100000

80000

60000

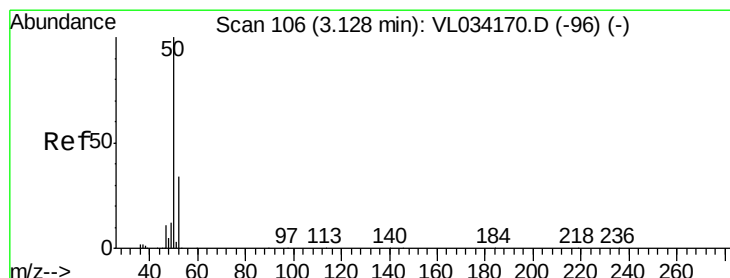
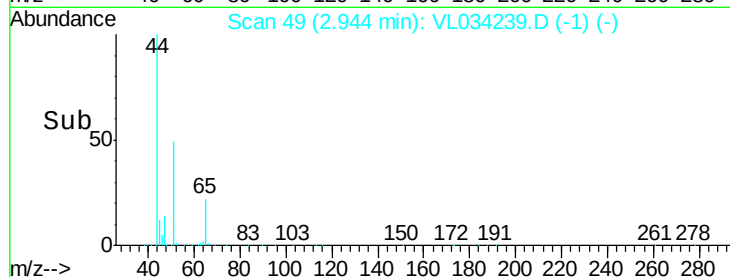
40000

20000

0

Time-->

2.90 2.95 3.00



#4

Chloromethane

Concen: 1.135 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL034239.D

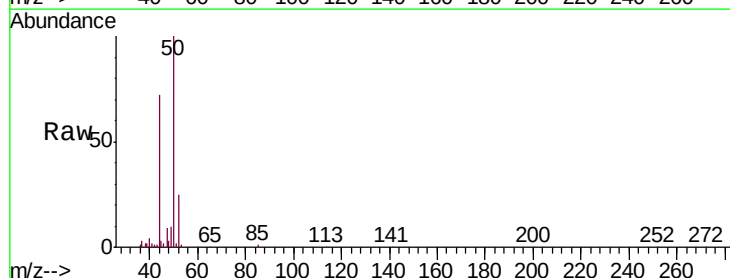
Acq: 8 Oct 2019 2:17

Tgt Ion: 50 Resp: 85889

Ion Ratio Lower Upper

50 100

52 25.4 27.1 40.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

80000

60000

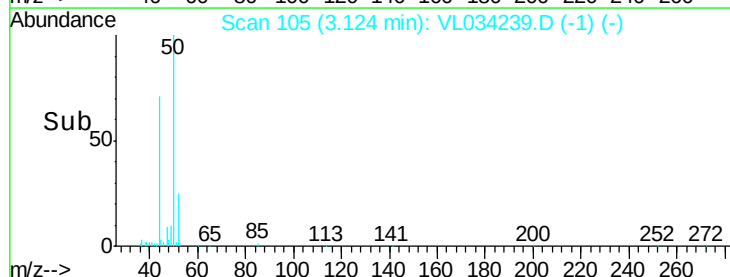
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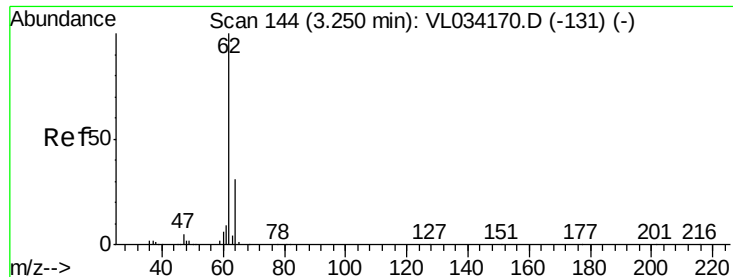
20000

0

Time-->

3.10 3.15





#5

Vinyl Chloride

Concen: 0.326 ppbv

RT: 3.24 min Scan# 142

Delta R.T. -0.01 min

Lab File: VL034239.D

Acq: 8 Oct 2019 2:17

Instrument :

MSVOA_L

ClientSampleId :

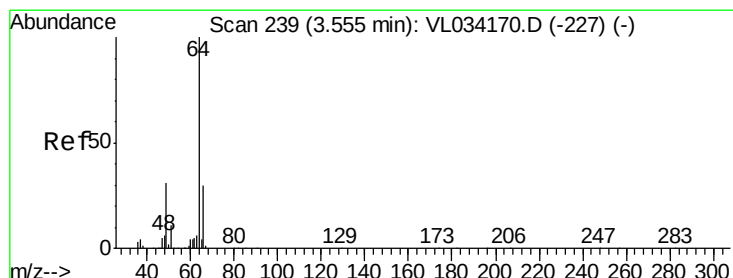
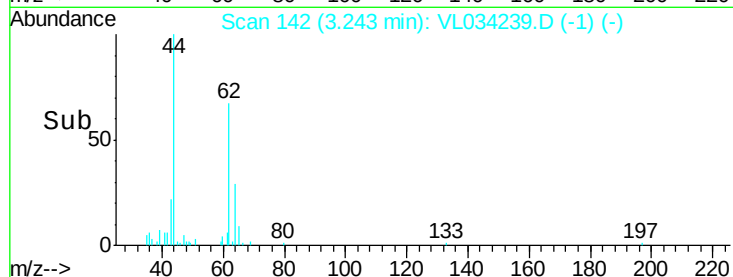
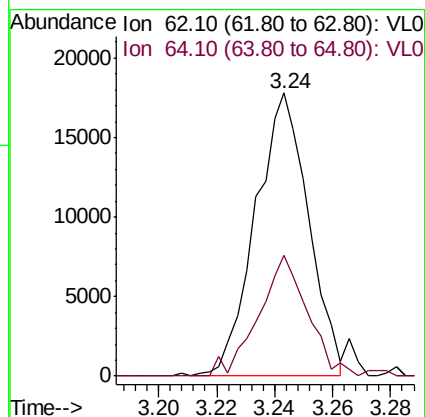
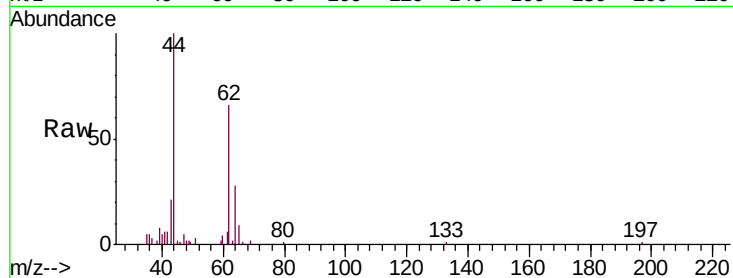
V-2

Tgt Ion: 62 Resp: 22574

Ion Ratio Lower Upper

62 100

64 42.5 25.2 37.8#



#7

Chloroethane

Concen: 0.111 ppbv

RT: 3.55 min Scan# 237

Delta R.T. -0.01 min

Lab File: VL034239.D

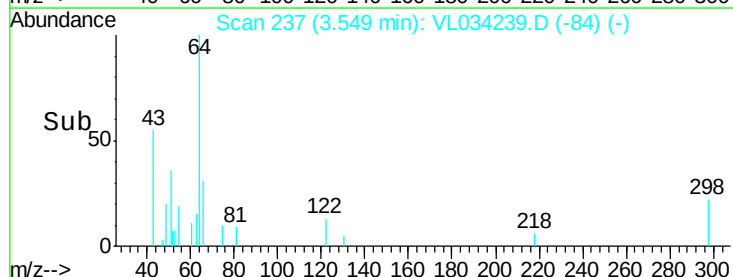
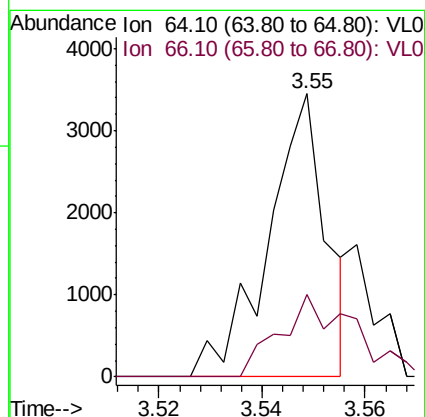
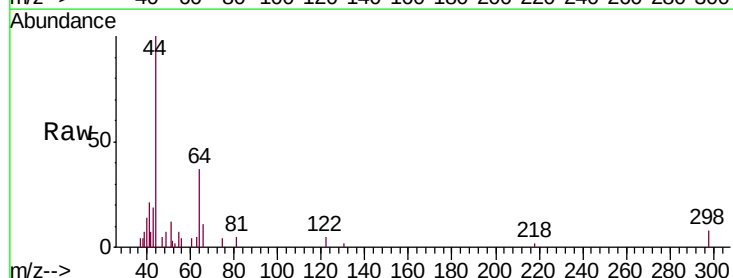
Acq: 8 Oct 2019 2:17

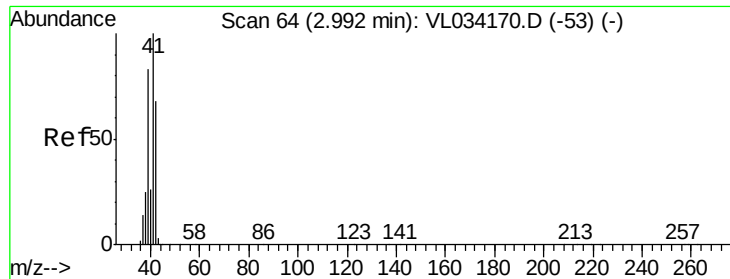
Tgt Ion: 64 Resp: 2684

Ion Ratio Lower Upper

64 100

66 29.1 24.2 36.4





#9

Propene

Concen: 11.777 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL034239.D

Acq: 8 Oct 2019 2:17

Instrument :

MSVOA_L

ClientSampleId :

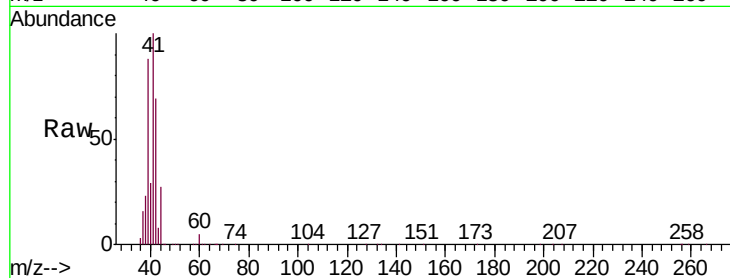
V-2

Tgt Ion: 41 Resp: 748421

Ion Ratio Lower Upper

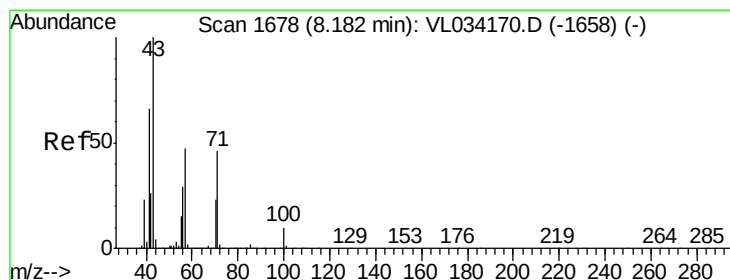
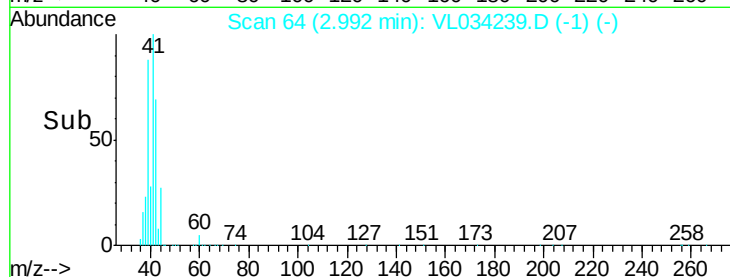
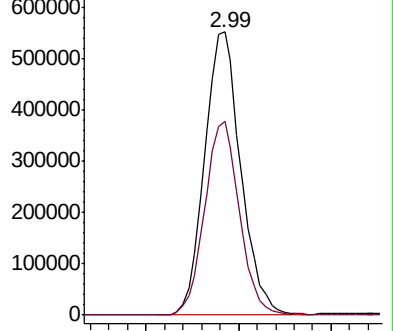
41 100

42 65.9 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: 4.850 ppbv

RT: 8.17 min Scan# 1674

Delta R.T. -0.01 min

Lab File: VL034239.D

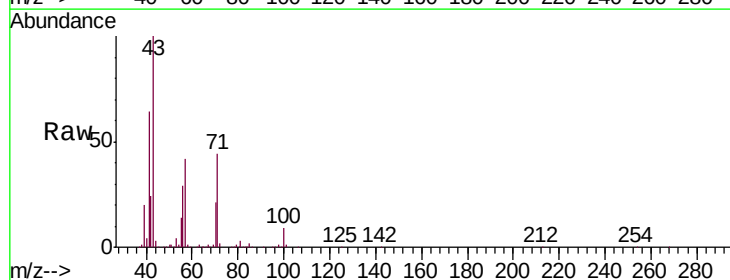
Acq: 8 Oct 2019 2:17

Tgt Ion: 43 Resp: 803203

Ion Ratio Lower Upper

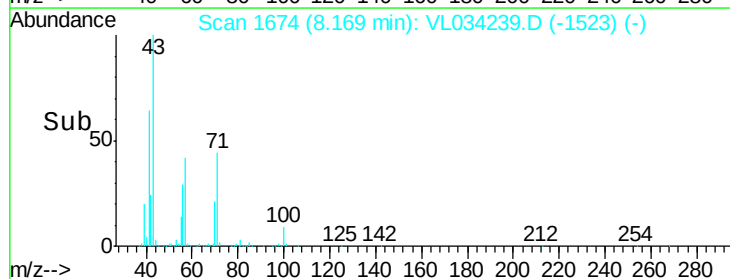
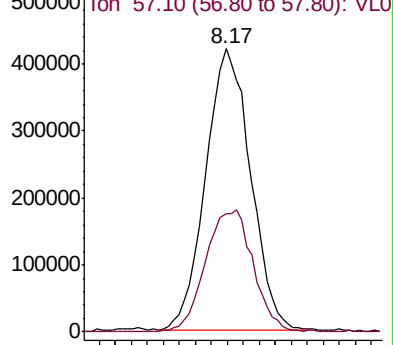
43 100

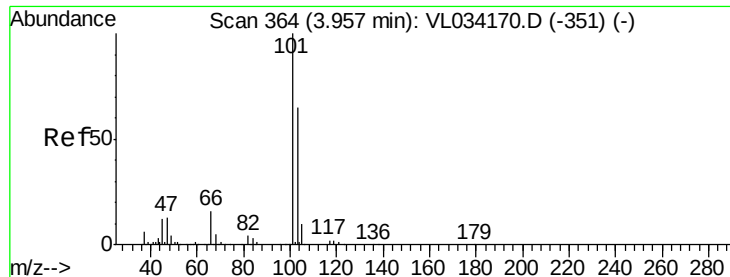
57 45.7 37.5 56.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

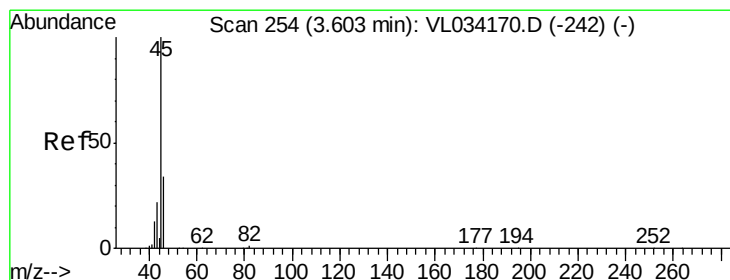
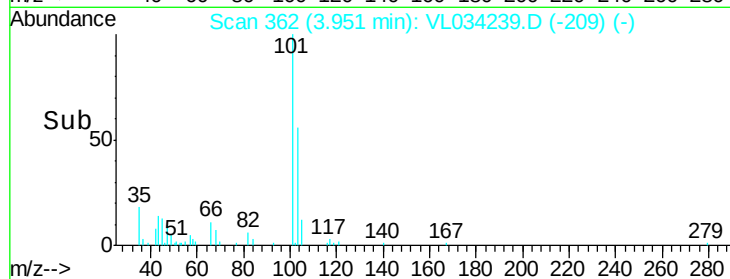
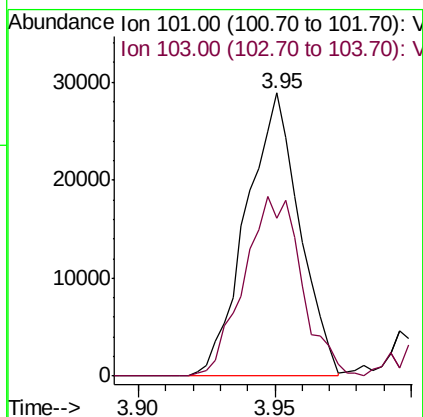
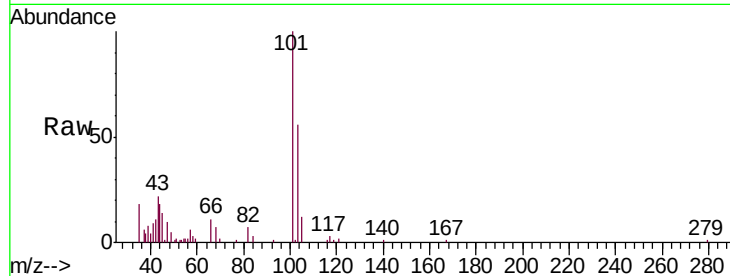




#11
 Trichlorofluoromethane
 Concen: 0.265 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. -0.01 min
 Lab File: VL034239.D
 Acq: 8 Oct 2019 2:17

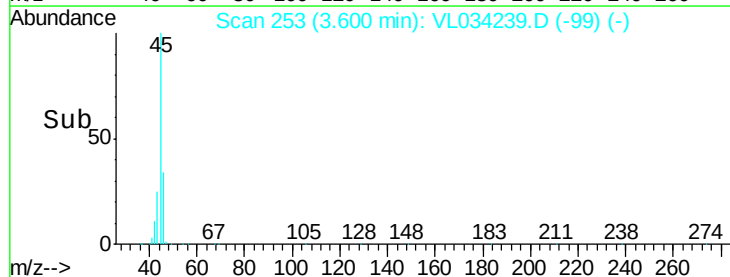
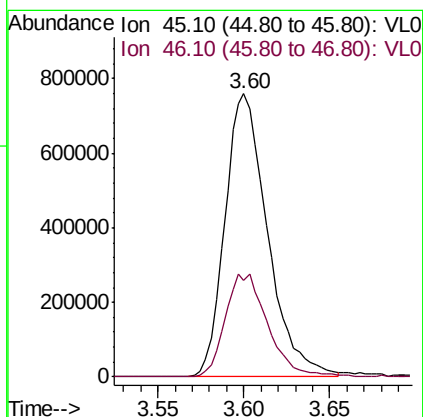
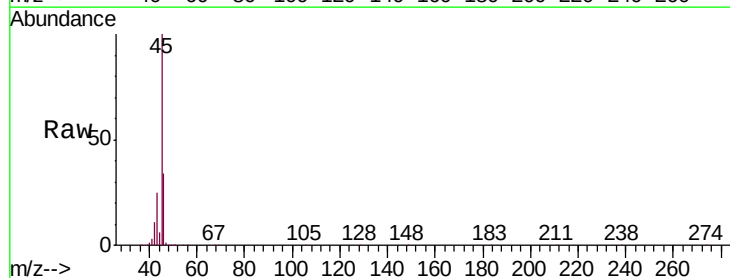
Instrument :
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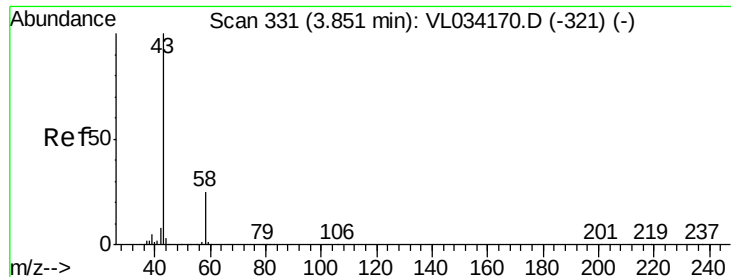
Tgt Ion: 101 Resp: 39213
 Ion Ratio Lower Upper
 101 100
 103 56.0 52.1 78.1



#13
 Ethanol
 Concen: 85.025 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. -0.00 min
 Lab File: VL034239.D
 Acq: 8 Oct 2019 2:17

Tgt Ion: 45 Resp: 1308378
 Ion Ratio Lower Upper
 45 100
 46 37.1 15.5 61.9





#15

Acetone

Concen: 9.467 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL034239.D

Acq: 8 Oct 2019 2:17

Instrument :

MSVOA_L

ClientSampleId :

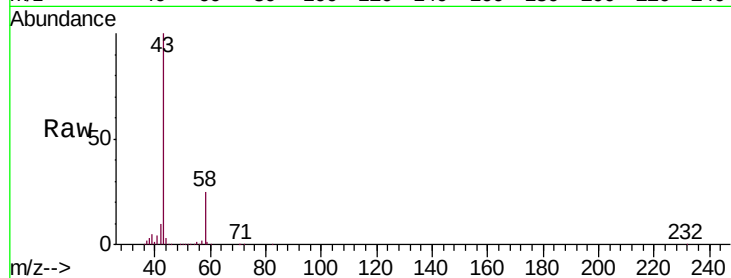
V-2

Tgt Ion: 43 Resp: 1393813

Ion Ratio Lower Upper

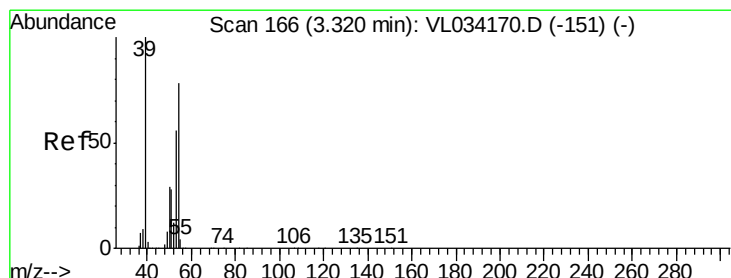
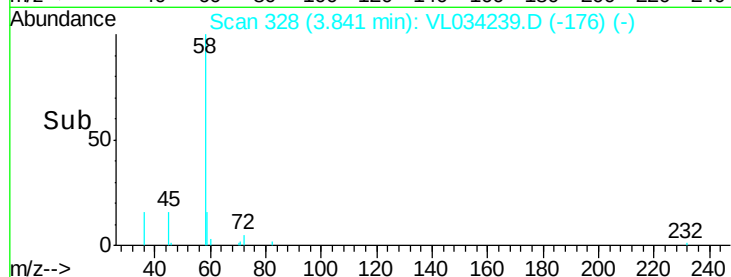
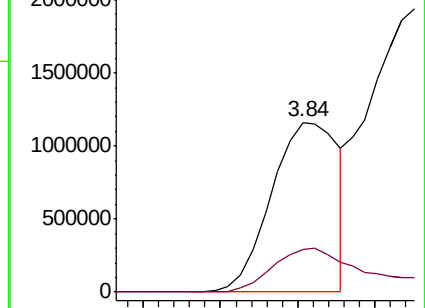
43 100

58 39.2 20.5 30.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 1.824 ppbv

RT: 3.31 min Scan# 163

Delta R.T. -0.01 min

Lab File: VL034239.D

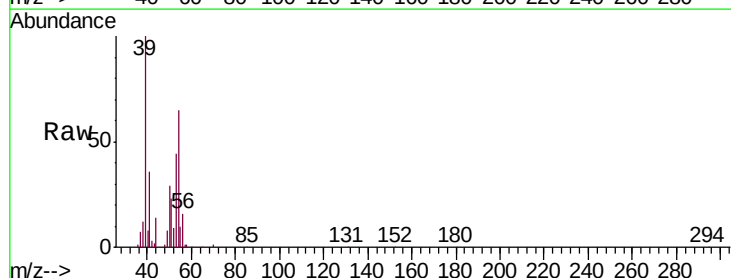
Acq: 8 Oct 2019 2:17

Tgt Ion: 39 Resp: 117175

Ion Ratio Lower Upper

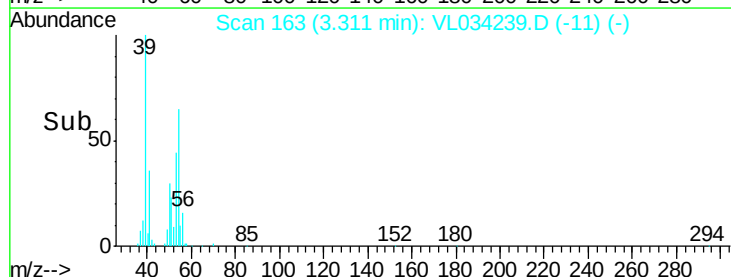
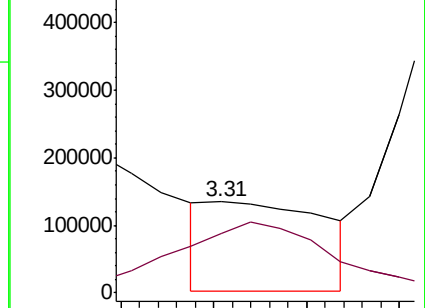
39 100

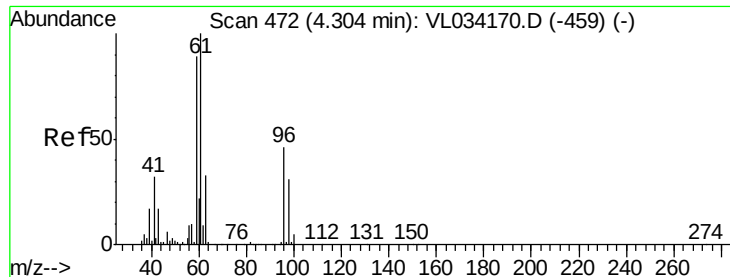
54 127.2 63.4 95.0#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



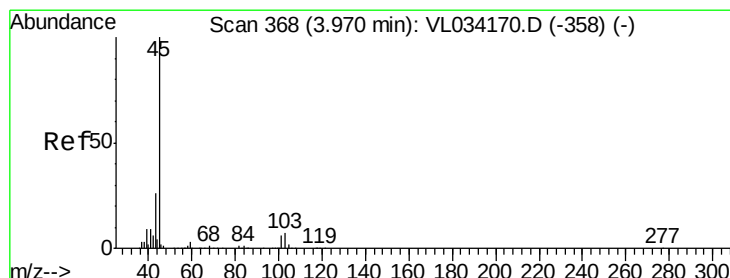
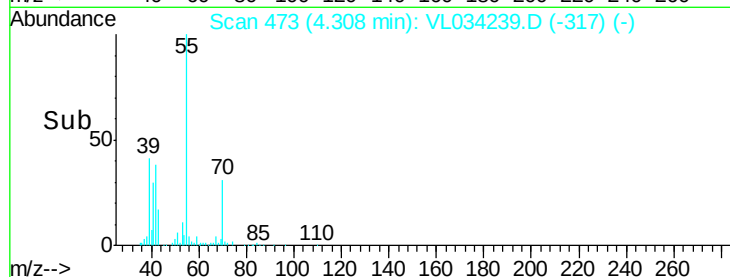
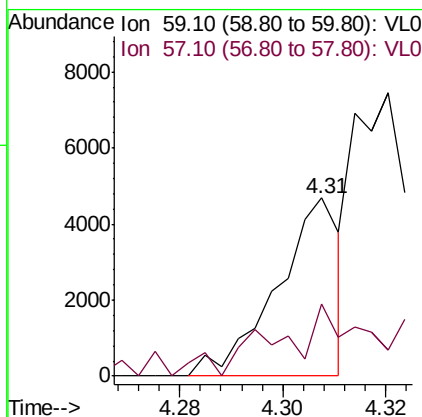
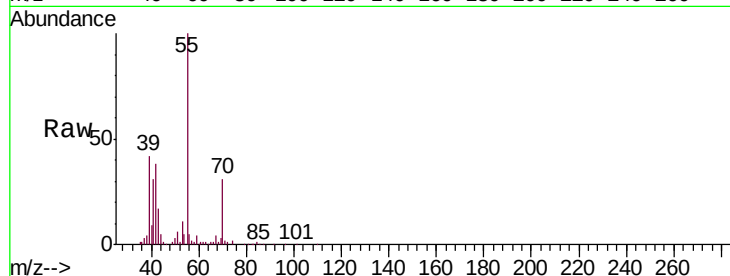


#17

tert-Butyl alcohol
Concen: 0.042 ppbv
RT: 4.31 min Scan# 473
Delta R.T. 0.00 min
Lab File: VL034239.D
Acq: 8 Oct 2019 2:17

Instrument :
MSVOA_L
ClientSampleId :
V-2

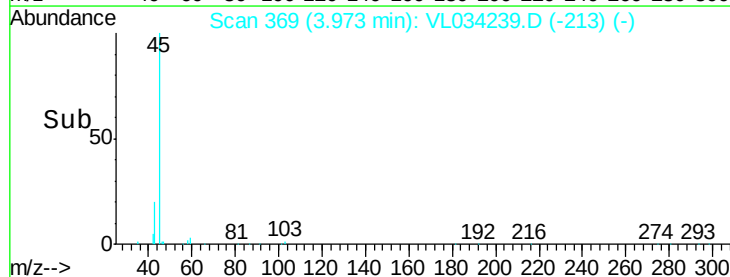
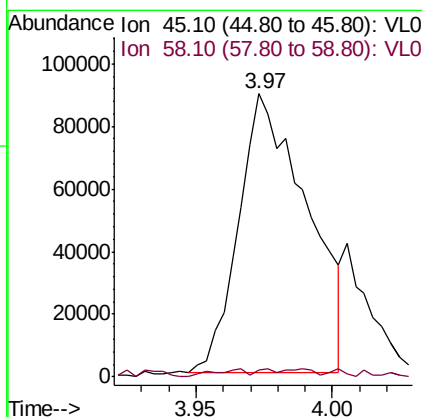
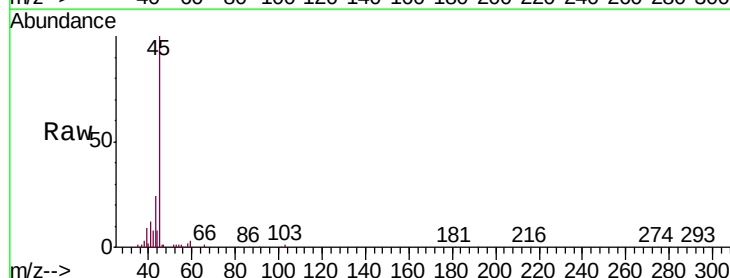
Tgt Ion: 59 Resp: 3942
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

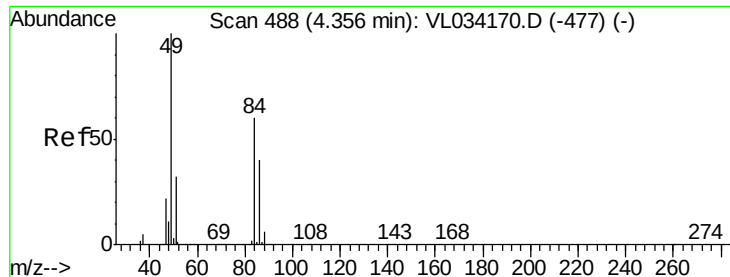


#19

Isopropyl Alcohol
Concen: 1.711 ppbv
RT: 3.97 min Scan# 369
Delta R.T. 0.00 min
Lab File: VL034239.D
Acq: 8 Oct 2019 2:17

Tgt Ion: 45 Resp: 154916
Ion Ratio Lower Upper
45 100
58 352.5 1.4 2.0#

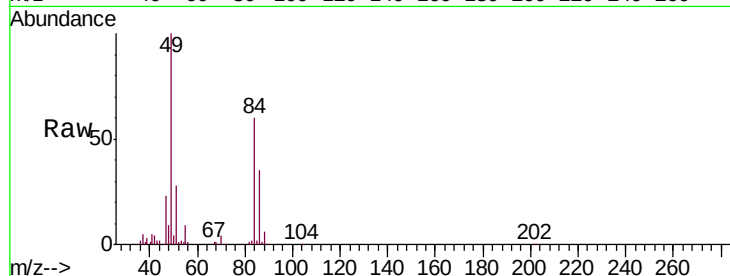




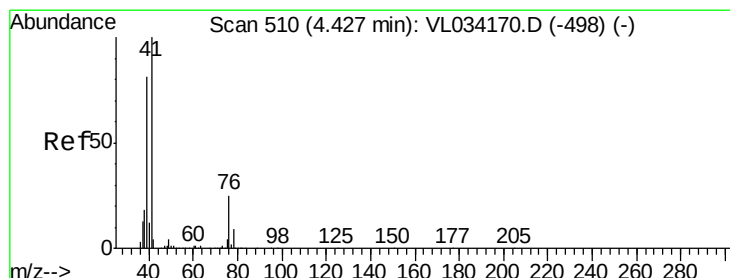
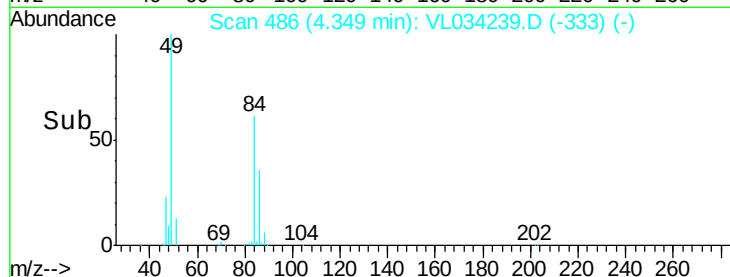
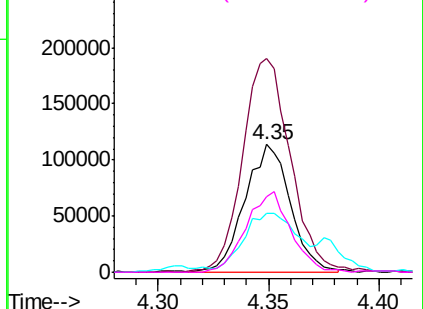
#20
Methylene Chloride
Concen: 3.817 ppbv
RT: 4.35 min Scan# 486
Delta R.T. -0.01 min
Lab File: VL034239.D
Acq: 8 Oct 2019 2:17

Instrument :
MSVOA_L
ClientSampleId :
V-2

Tgt Ion: 84 Resp: 162030
Ion Ratio Lower Upper
84 100
49 167.1 133.8 200.8
51 43.3 43.6 65.4#
86 58.7 53.1 79.7

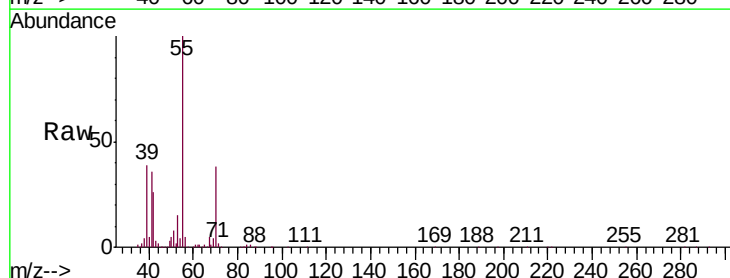


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

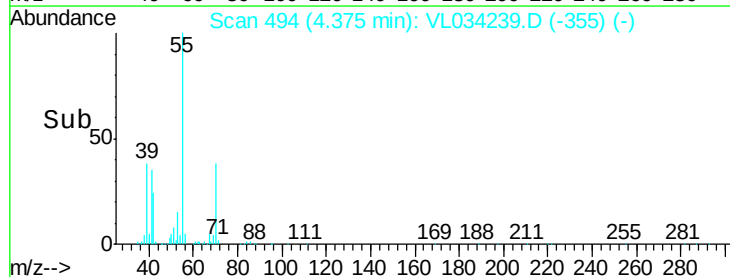
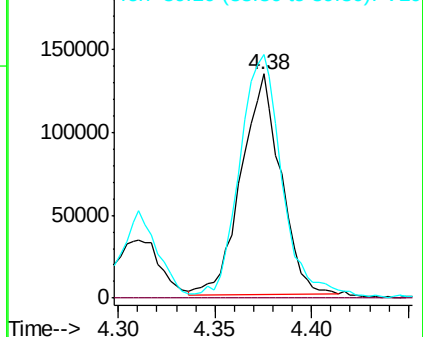


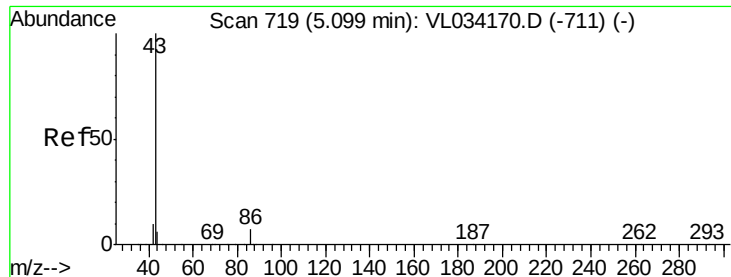
#21
Allyl Chloride
Concen: 2.264 ppbv
RT: 4.38 min Scan# 494
Delta R.T. -0.05 min
Lab File: VL034239.D
Acq: 8 Oct 2019 2:17

Tgt Ion: 41 Resp: 188310
Ion Ratio Lower Upper
41 100
76 0.0 21.8 32.6#
39 119.3 64.8 97.2#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 3.052 ppbv

RT: 5.08 min Scan# 712

Delta R.T. -0.02 min

Lab File: VL034239.D

Acq: 8 Oct 2019 2:17

Instrument :
MSVOA_L
ClientSampleId :
V-2

Tgt Ion: 43 Resp: 662255

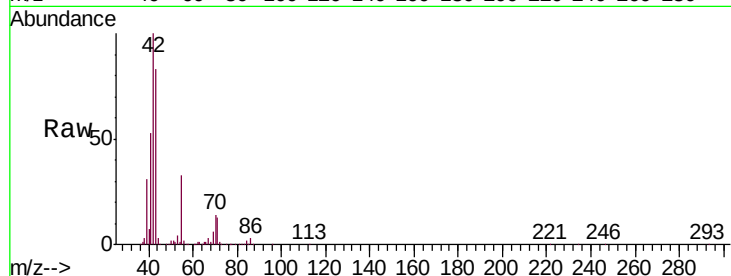
Ion Ratio Lower Upper

43 100

86 3.7 5.1 7.7#

42 121.2 8.6 12.8#

44 2.4 4.7 7.1#

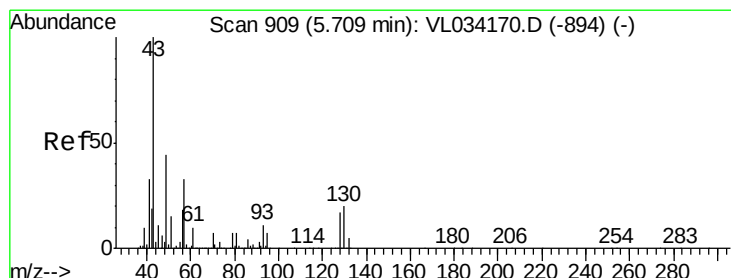
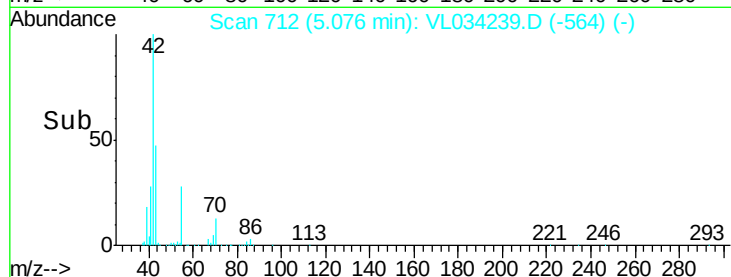
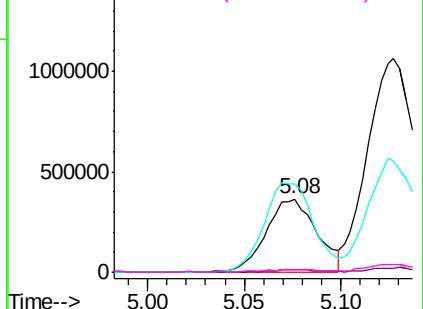


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#25

Ethyl Acetate

Concen: 3.396 ppbv

RT: 5.71 min Scan# 910

Delta R.T. 0.00 min

Lab File: VL034239.D

Acq: 8 Oct 2019 2:17

Tgt Ion: 43 Resp: 945462

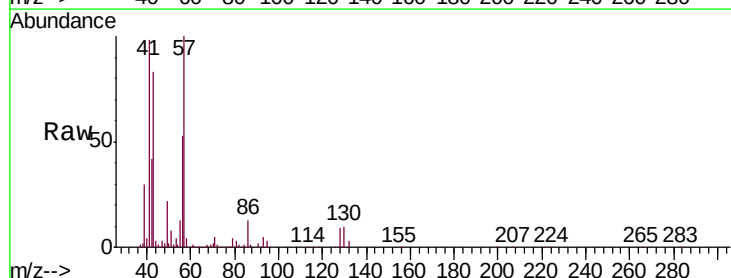
Ion Ratio Lower Upper

43 100

45 3.1 8.4 12.6#

61 2.4 7.2 10.8#

70 2.5 5.3 7.9#

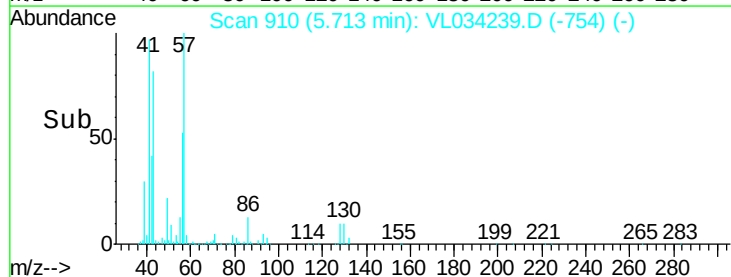
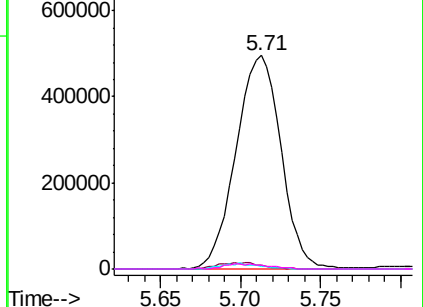


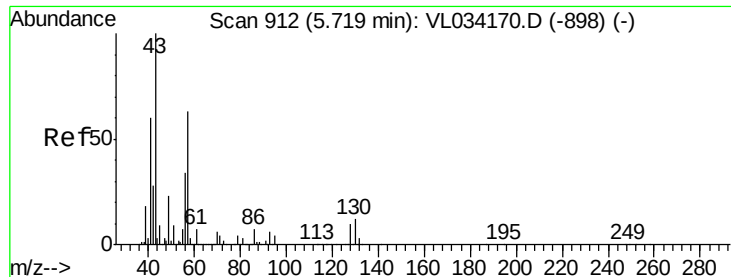
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

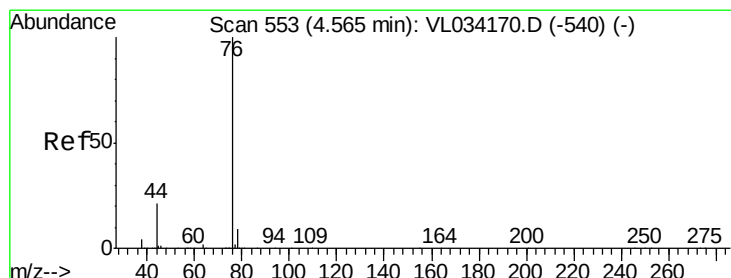
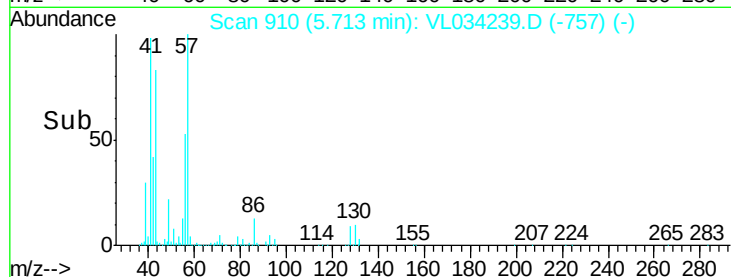
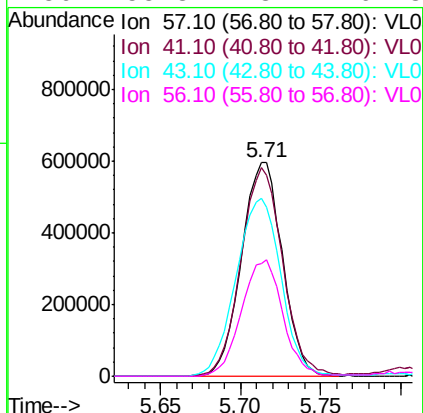
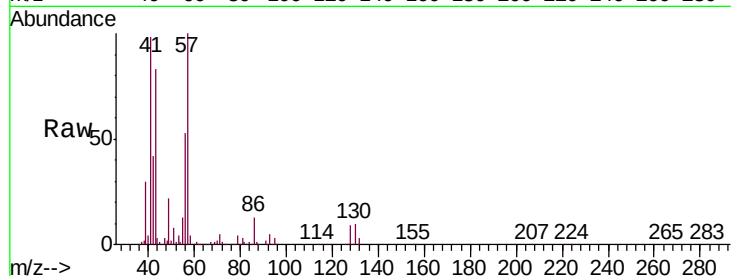




#26
Hexane
Concen: 8.946 ppbv
RT: 5.71 min Scan# 910
Delta R.T. -0.01 min
Lab File: VL034239.D
Acq: 8 Oct 2019 2:17

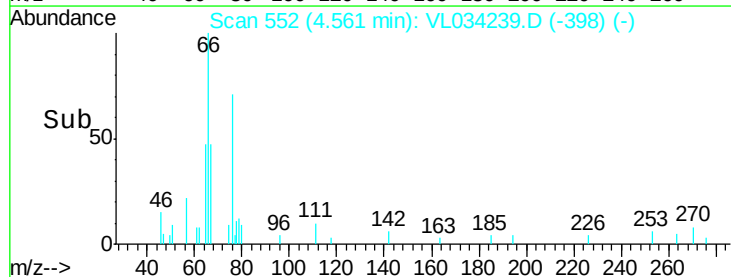
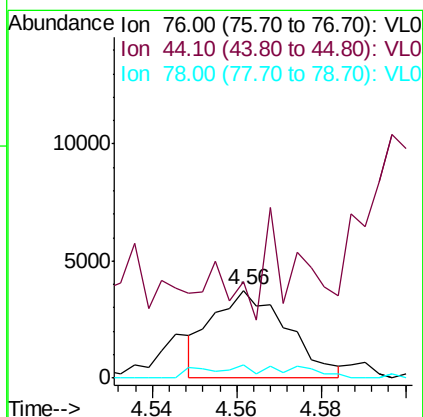
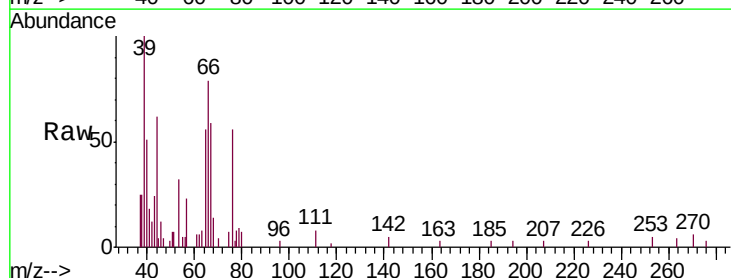
Instrument :
MSVOA_L
ClientSampleId :
V-2

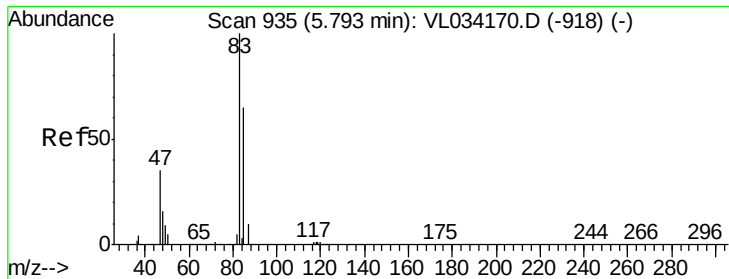
Tgt Ion: 57 Resp: 1036098
Ion Ratio Lower Upper
57 100
41 100.7 78.5 117.7
43 91.7 189.5 284.3#
56 55.3 43.2 64.8



#27
Carbon Disulfide
Concen: 0.043 ppbv
RT: 4.56 min Scan# 552
Delta R.T. -0.00 min
Lab File: VL034239.D
Acq: 8 Oct 2019 2:17

Tgt Ion: 76 Resp: 4603
Ion Ratio Lower Upper
76 100
44 0.0 17.6 26.4#
78 18.7 7.6 11.4#

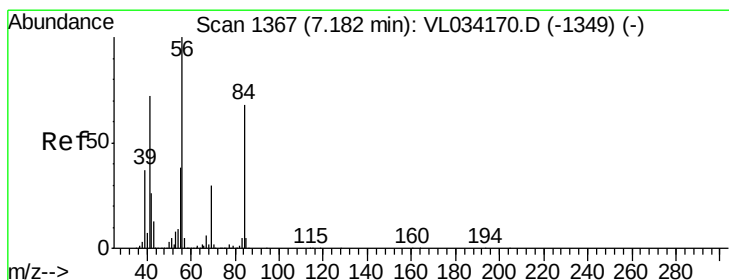
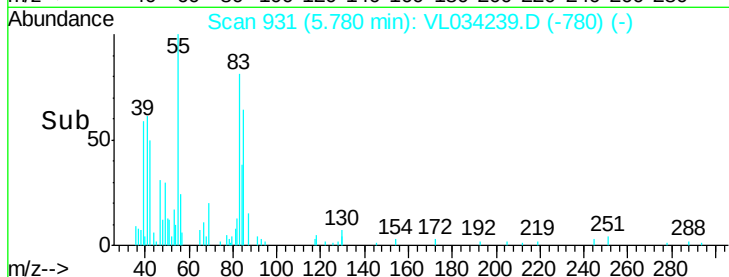
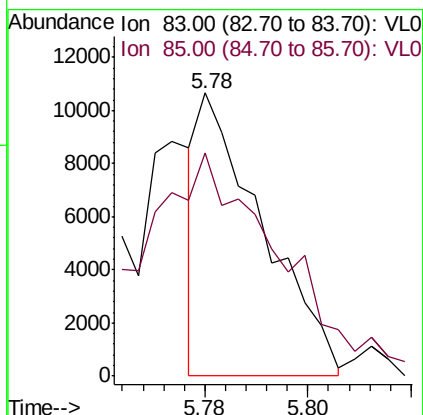
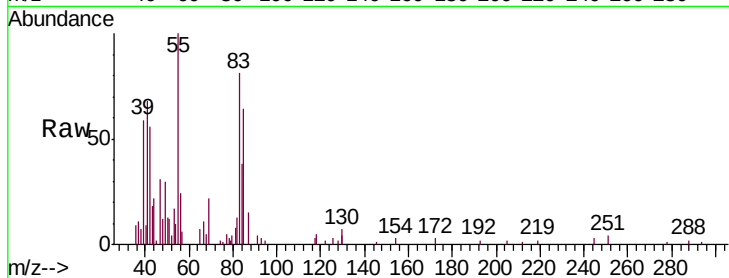




#29
Chloroform
Concen: 0.055 ppbv
RT: 5.78 min Scan# 931
Delta R.T. -0.01 min
Lab File: VL034239.D
Acq: 8 Oct 2019 2:17

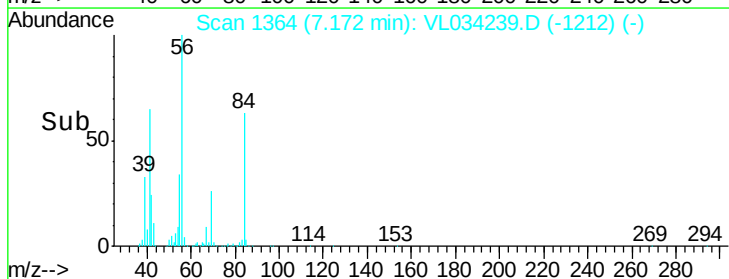
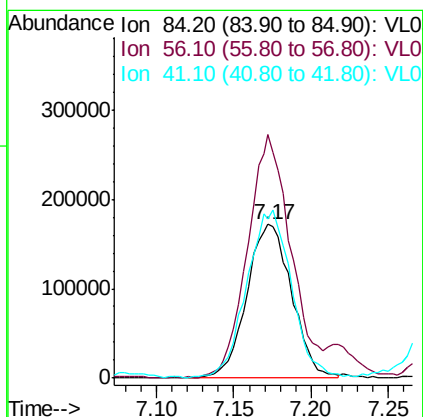
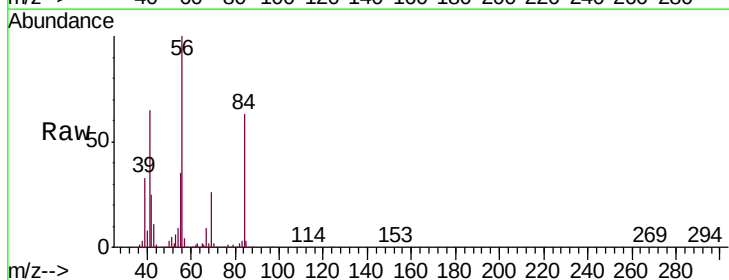
Instrument :
MSVOA_L
ClientSampleId :
V-2

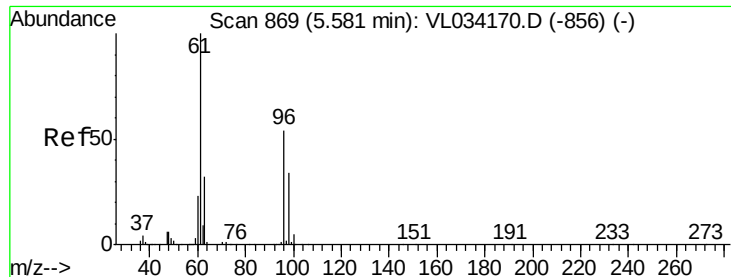
Tgt Ion: 83 Resp: 9169
Ion Ratio Lower Upper
83 100
85 64.5 52.3 78.5



#30
Cyclohexane
Concen: 4.148 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VL034239.D
Acq: 8 Oct 2019 2:17

Tgt Ion: 84 Resp: 346860
Ion Ratio Lower Upper
84 100
56 166.8 126.2 189.2
41 107.3 85.8 128.8





#31

cis-1,2-Dichloroethene

Concen: 0.580 ppbv

RT: 5.58 min Scan# 868

Delta R.T. -0.00 min

Lab File: VL034239.D

Acq: 8 Oct 2019 2:17

Instrument :

MSVOA_L

ClientSampleId :

V-2

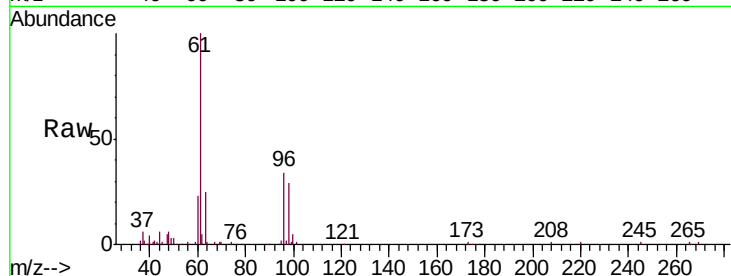
Tgt Ion: 61 Resp: 68535

Ion Ratio Lower Upper

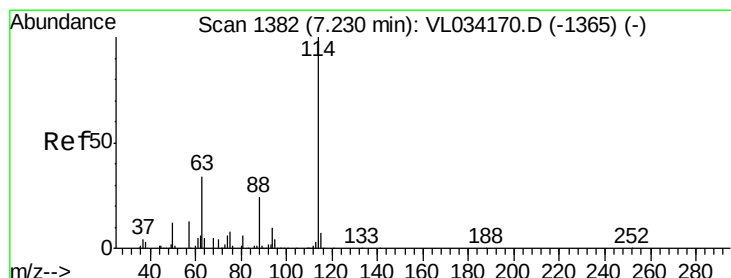
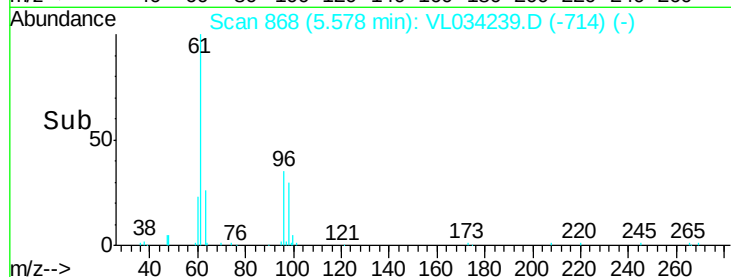
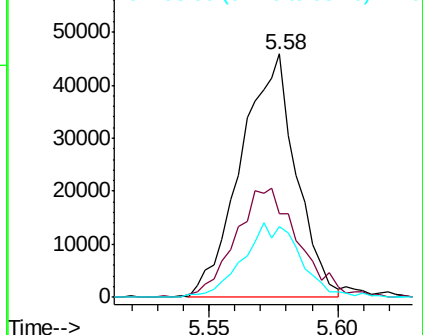
61 100

96 31.8 43.0 64.4#

98 26.8 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: VL034239.D

Acq: 8 Oct 2019 2:17

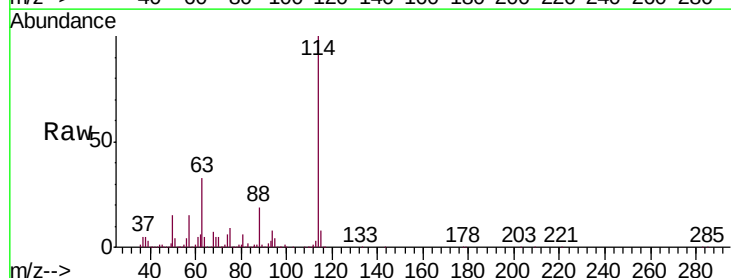
Tgt Ion: 114 Resp: 1854208

Ion Ratio Lower Upper

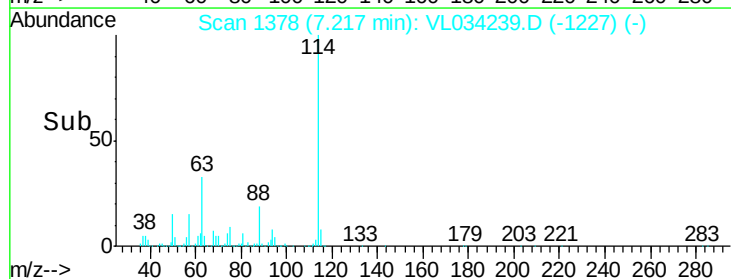
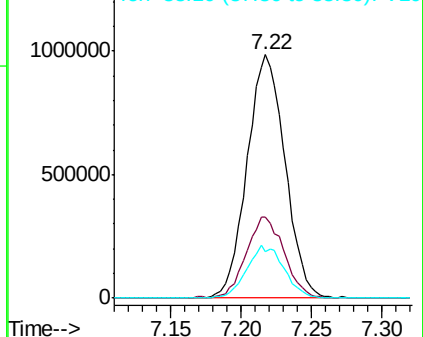
114 100

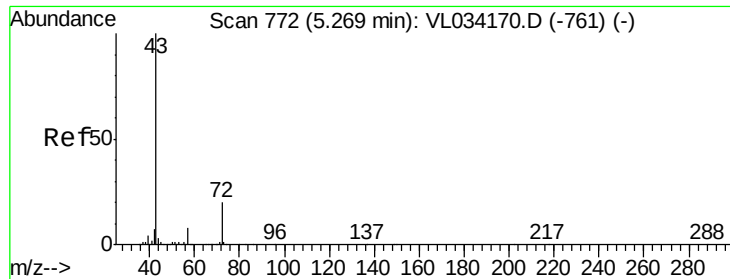
63 33.5 27.8 41.6

88 21.1 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: 1.233 ppbv

RT: 5.27 min Scan# 772

Delta R.T. -0.00 min

Lab File: VL034239.D

Acq: 8 Oct 2019 2:17

Instrument :

MSVOA_L

ClientSampleId :

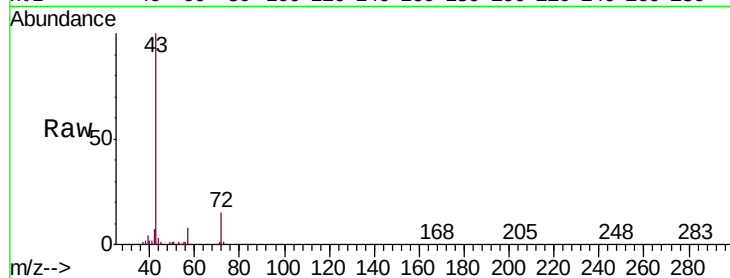
V-2

Tgt Ion: 43 Resp: 233451

Ion Ratio Lower Upper

43 100

72 17.1 15.0 22.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

5.27

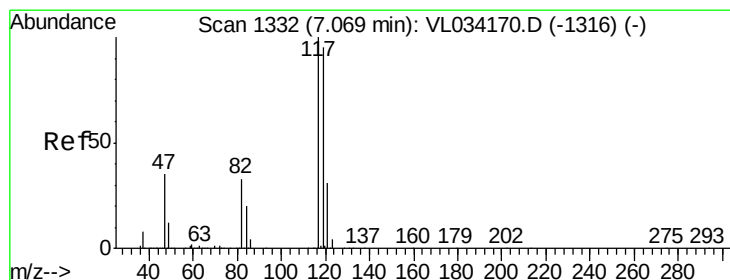
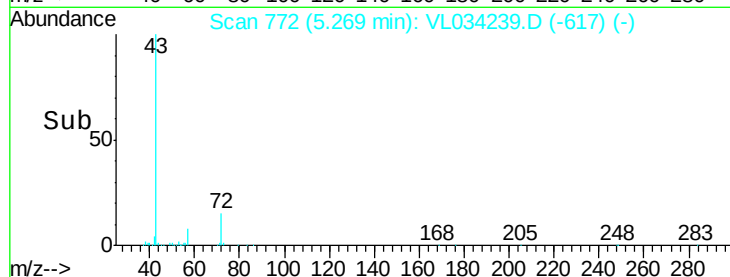
150000

100000

50000

0

Time-->



#35

Carbon Tetrachloride

Concen: 0.068 ppbv

RT: 7.06 min Scan# 1329

Delta R.T. -0.01 min

Lab File: VL034239.D

Acq: 8 Oct 2019 2:17

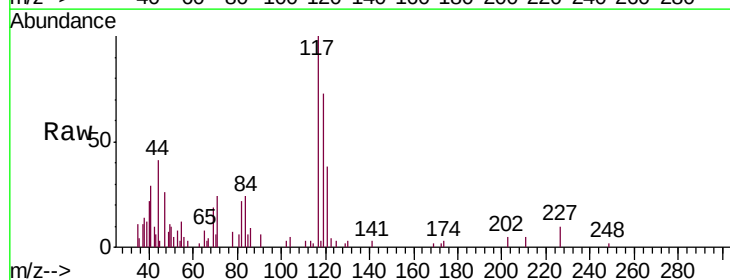
Tgt Ion: 117 Resp: 10466

Ion Ratio Lower Upper

117 100

119 71.3 75.8 113.6#

121 37.5 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

10000

8000

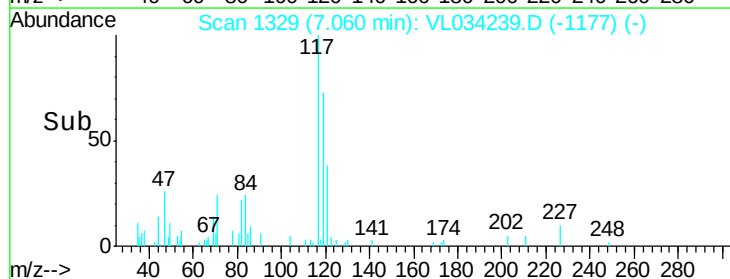
6000

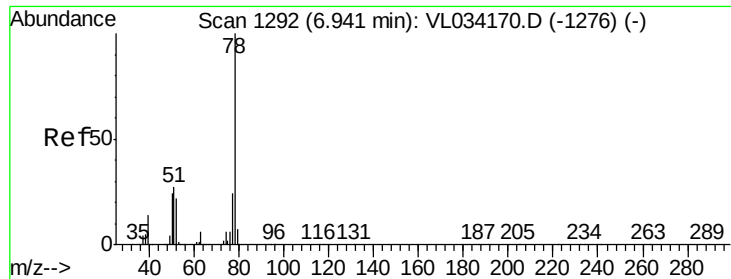
4000

2000

0

Time-->





#36

Benzene

Concen: 5.688 ppbv

RT: 6.93 min Scan# 1289

Delta R.T. -0.01 min

Lab File: VL034239.D

Acq: 8 Oct 2019 2:17

Instrument :

MSVOA_L

ClientSampleId :

V-2

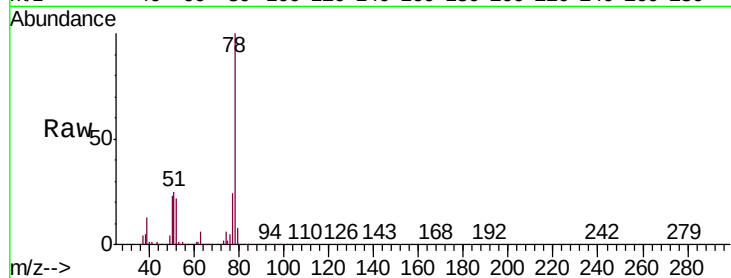
Tgt Ion: 78 Resp: 1164894

Ion Ratio Lower Upper

78 100

77 24.1 19.0 28.4

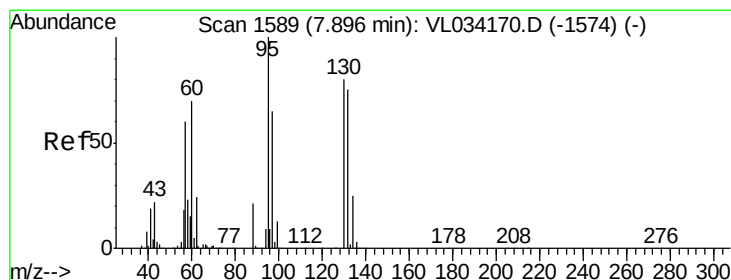
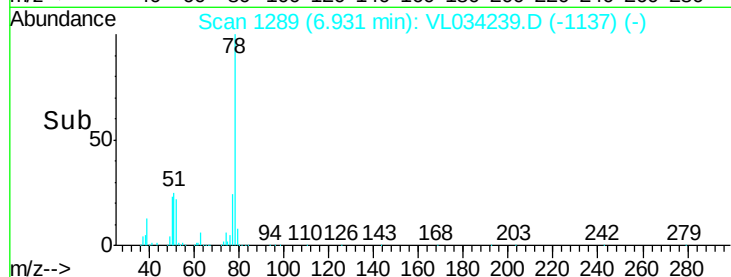
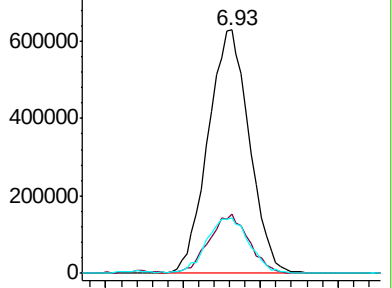
50 23.0 18.9 28.3



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#38

Trichloroethene

Concen: 0.054 ppbv

RT: 7.88 min Scan# 1585

Delta R.T. -0.01 min

Lab File: VL034239.D

Acq: 8 Oct 2019 2:17

Tgt Ion: 130 Resp: 3956

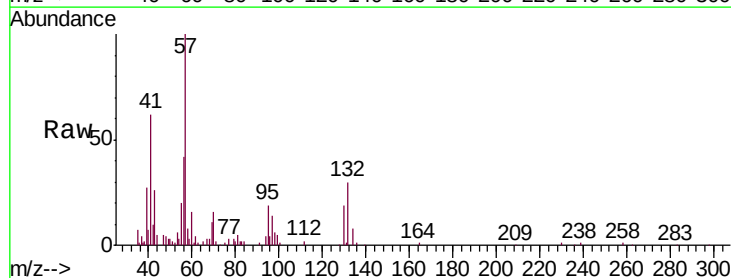
Ion Ratio Lower Upper

130 100

95 0.0 99.8 149.6#

132 257.1 75.2 112.8#

97 5.7 65.0 97.4#

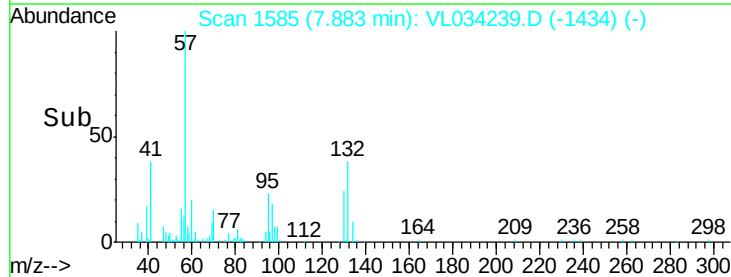
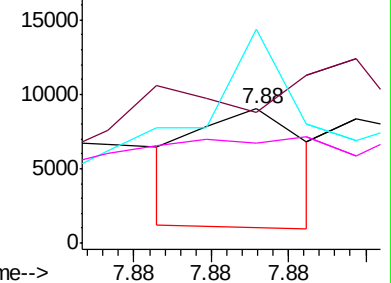


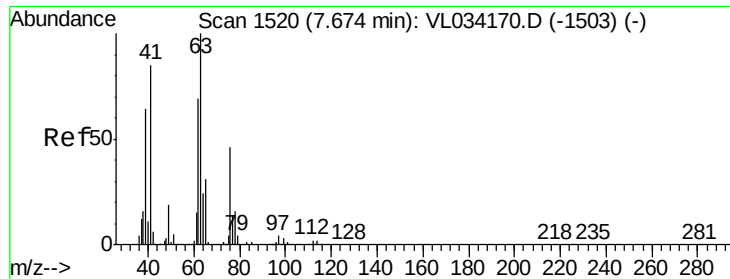
Abundance Ion 130.00 (129.70 to 130.70): V

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

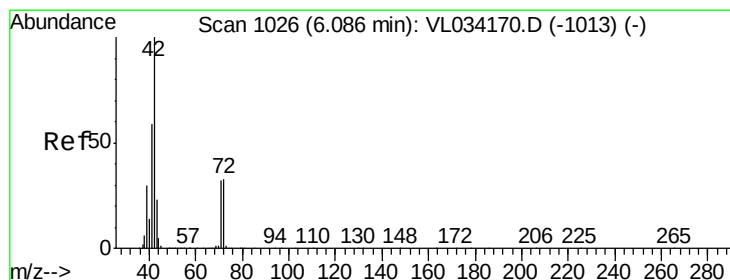
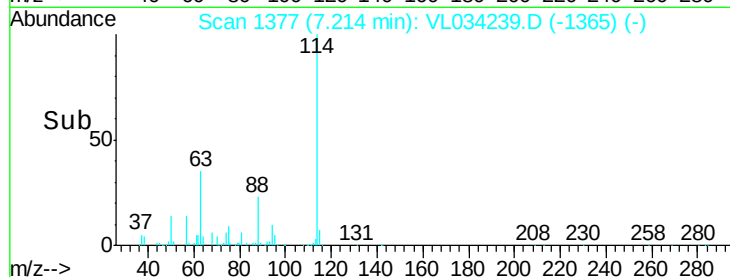
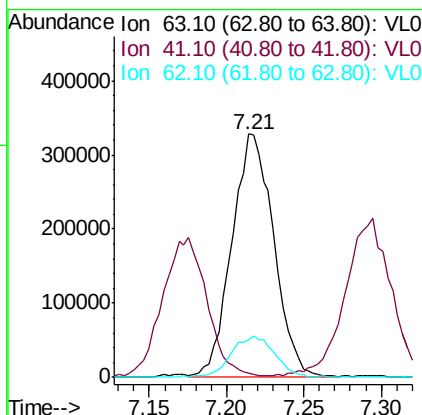
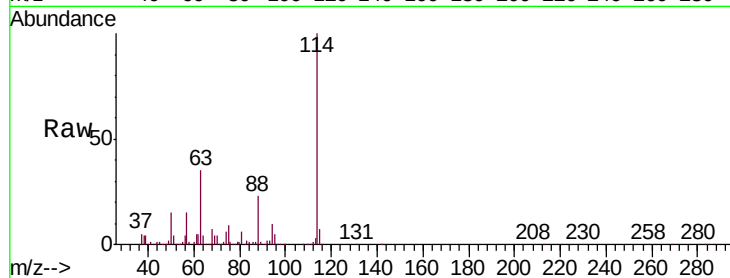




#39
 1,2-Dichloropropane
 Concen: 6.631 ppbv
 RT: 7.21 min Scan# 1377
 Delta R.T. -0.46 min
 Lab File: VL034239.D
 Acq: 8 Oct 2019 2:17

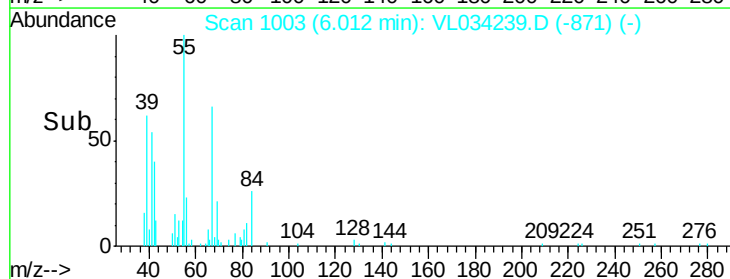
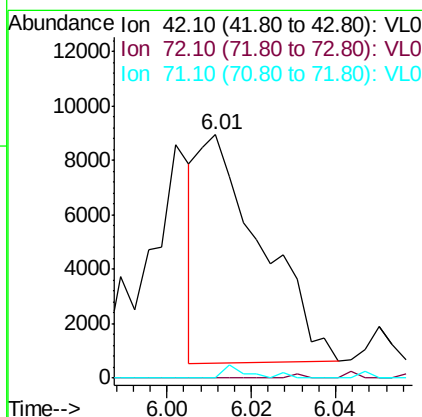
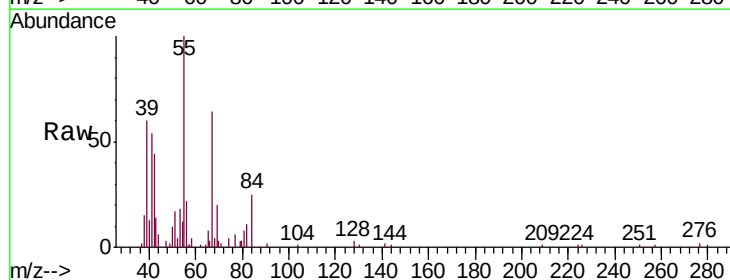
Instrument :
 MSVOA_L
 ClientSampled :
 V-2

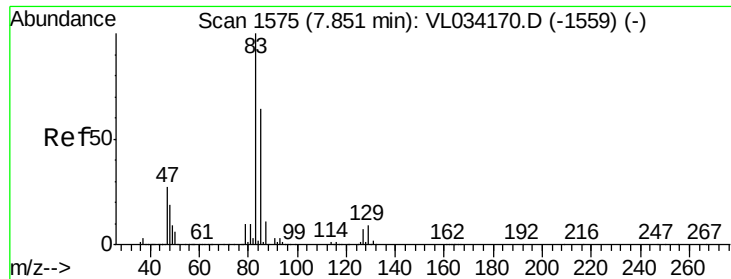
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	68.4	102.6#
62	15.4	55.4	83.2#



#41
 Tetrahydrofuran
 Concen: 0.082 ppbv
 RT: 6.01 min Scan# 1003
 Delta R.T. -0.07 min
 Lab File: VL034239.D
 Acq: 8 Oct 2019 2:17

Tgt Ion	Ratio	Lower	Upper
42	100		
72	31.0	26.6	40.0
71	28.1	25.1	37.7





#42

Bromodichloromethane

Concen: 0.135 ppbv

RT: 7.84 min Scan# 1571

Delta R.T. -0.01 min

Lab File: VL034239.D

Acq: 8 Oct 2019 2:17

Instrument :

MSVOA_L

ClientSampleId :

V-2

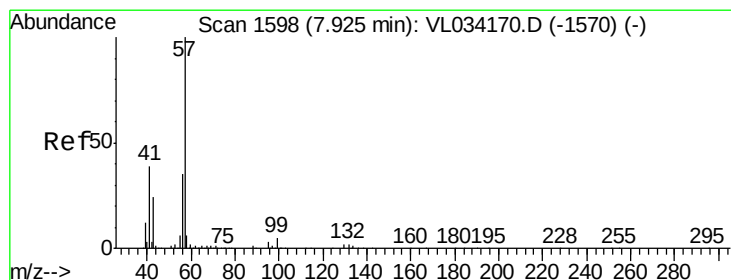
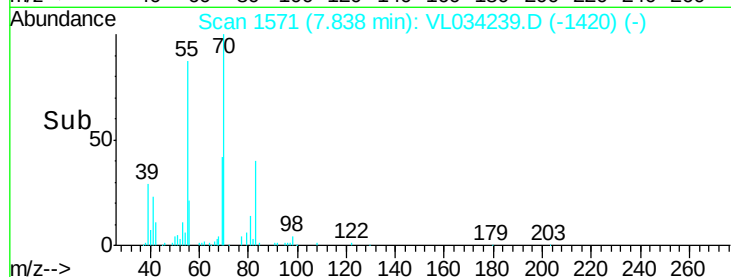
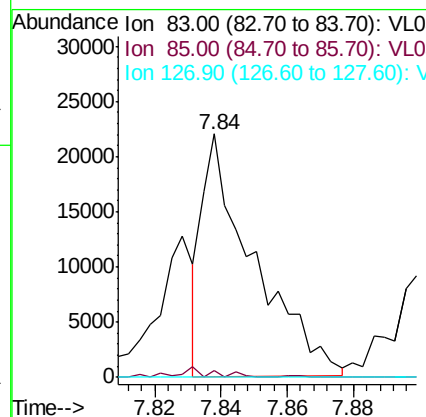
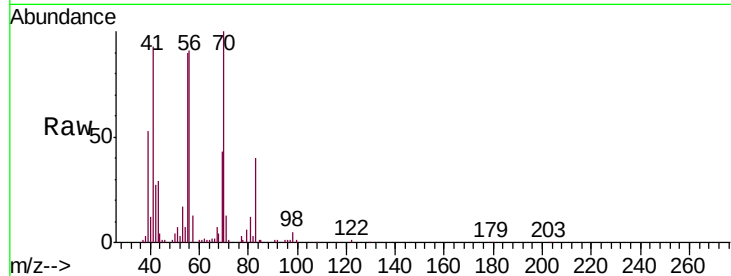
Tgt Ion: 83 Resp: 23581

Ion Ratio Lower Upper

83 100

85 2.7 51.4 77.0#

127 0.0 5.5 8.3#



#44

2,2,4-Trimethylpentane

Concen: 2.930 ppbv

RT: 7.92 min Scan# 1595

Delta R.T. -0.01 min

Lab File: VL034239.D

Acq: 8 Oct 2019 2:17

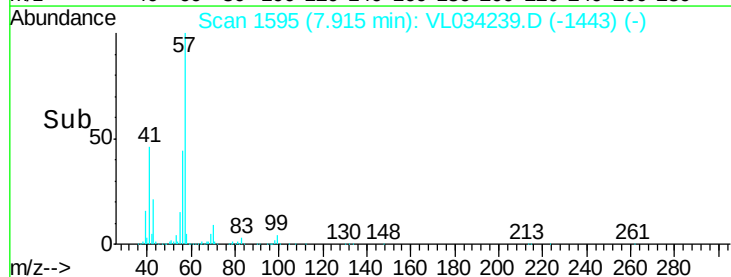
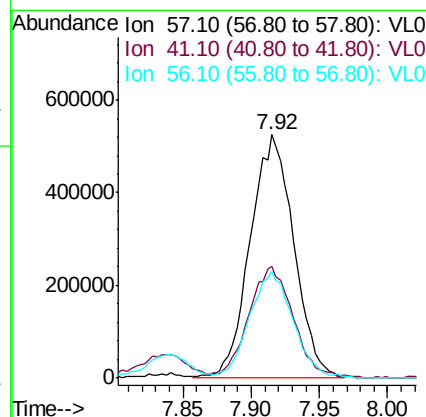
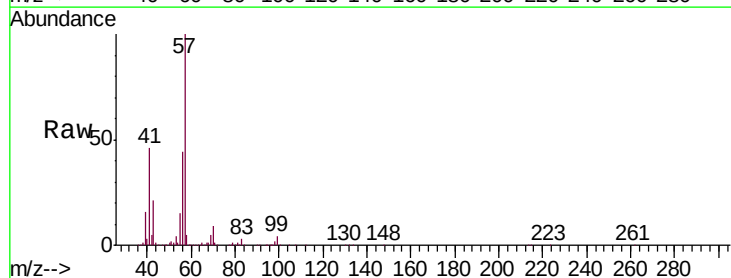
Tgt Ion: 57 Resp: 1155049

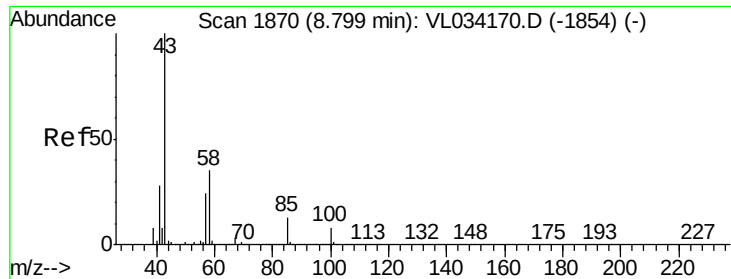
Ion Ratio Lower Upper

57 100

41 46.4 29.8 44.6#

56 44.3 25.9 38.9#

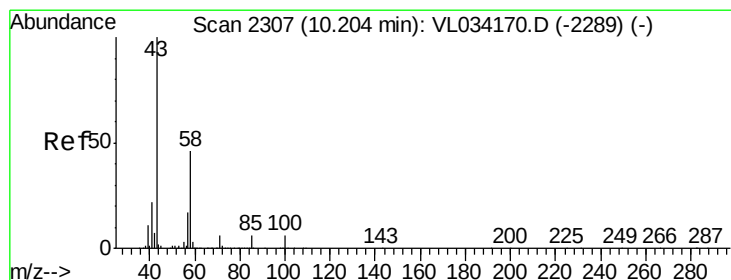
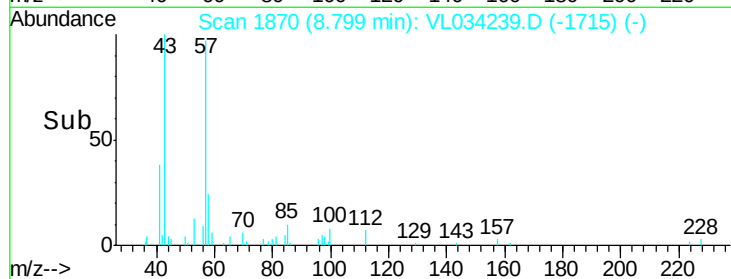
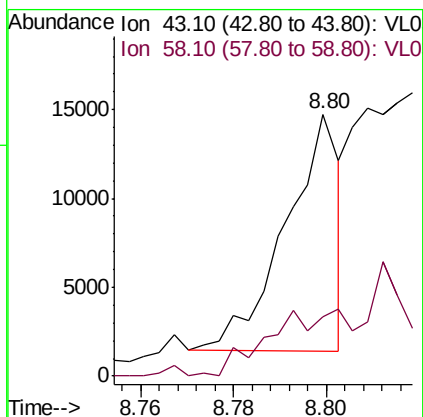
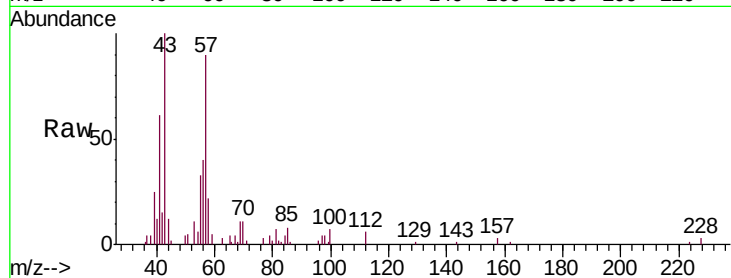




#50
4-Methyl-2-Pentanone
Concen: 0.039 ppbv
RT: 8.80 min Scan# 1870
Delta R.T. -0.00 min
Lab File: VL034239.D
Acq: 8 Oct 2019 2:17

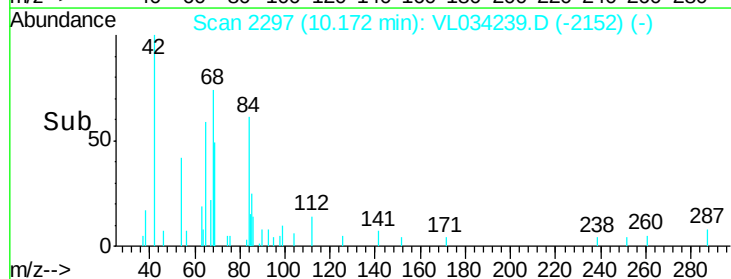
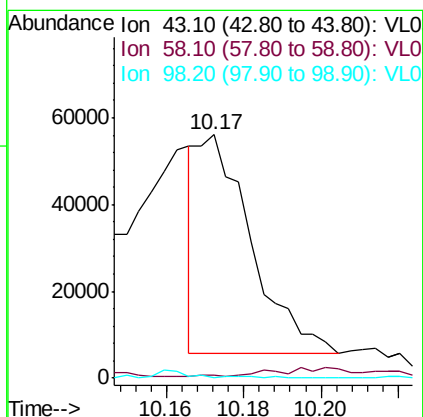
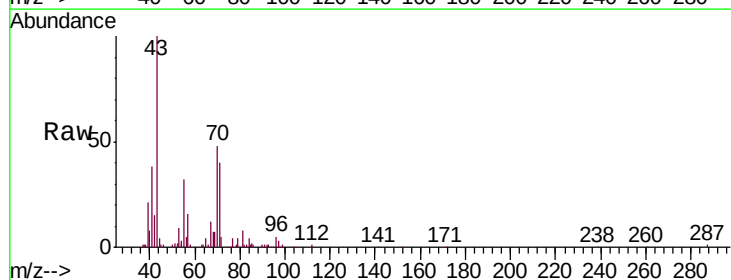
Instrument :
MSVOA_L
ClientSampleId :
V-2

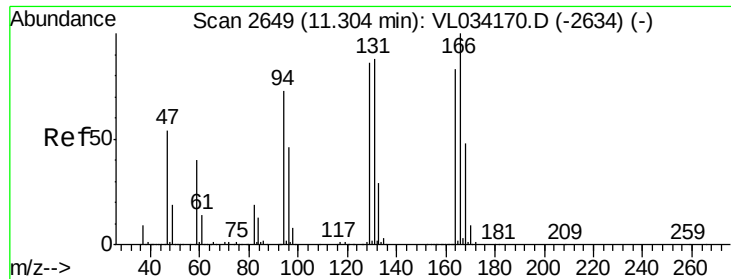
Tgt Ion: 43 Resp: 10762
Ion Ratio Lower Upper
43 100
58 0.0 27.6 41.4#



#51
2-Hexanone
Concen: 0.211 ppbv
RT: 10.17 min Scan# 2297
Delta R.T. -0.03 min
Lab File: VL034239.D
Acq: 8 Oct 2019 2:17

Tgt Ion: 43 Resp: 48694
Ion Ratio Lower Upper
43 100
58 0.0 36.2 54.4#
98 2.8 0.2 0.2#





#52

Tetrachloroethene

Concen: 0.699 ppbv

RT: 11.29 min Scan# 2644

Delta R.T. -0.02 min

Lab File: VL034239.D

Acq: 8 Oct 2019 2:17

Instrument :

MSVOA_L

ClientSampleId :

V-2

Tgt Ion:164 Resp: 47281

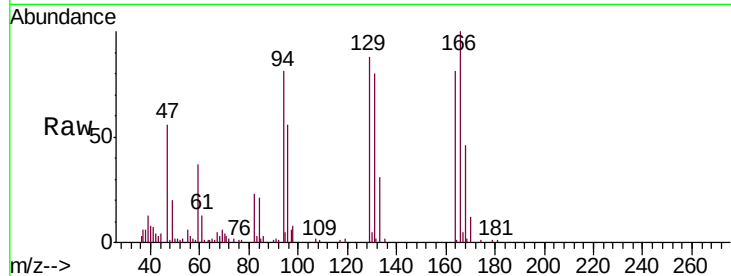
Ion Ratio Lower Upper

164 100

166 121.8 96.7 145.1

129 106.9 82.8 124.2

131 99.8 85.0 127.6

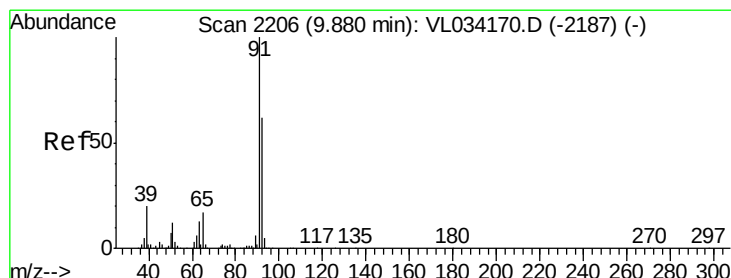
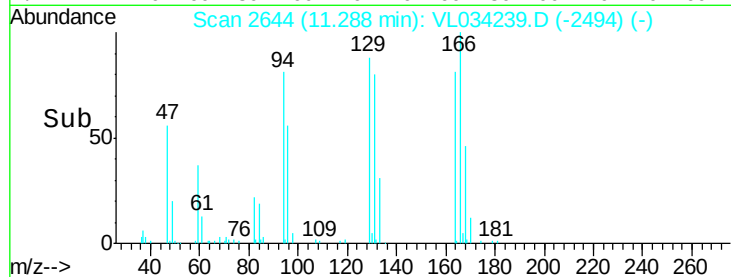
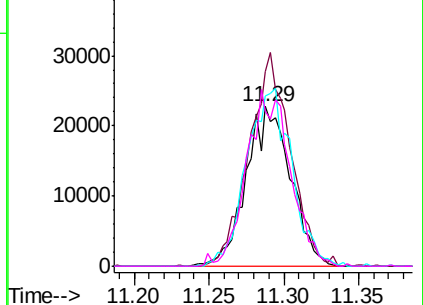


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 19.625 ppbv

RT: 9.87 min Scan# 2202

Delta R.T. -0.01 min

Lab File: VL034239.D

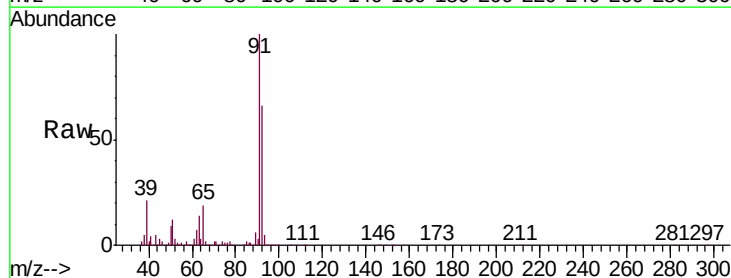
Acq: 8 Oct 2019 2:17

Tgt Ion: 91 Resp: 4392233

Ion Ratio Lower Upper

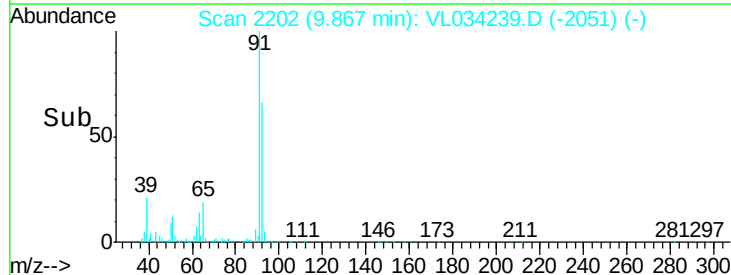
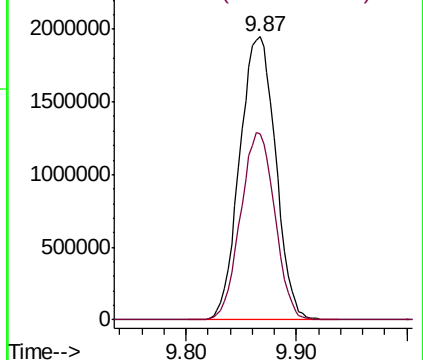
91 100

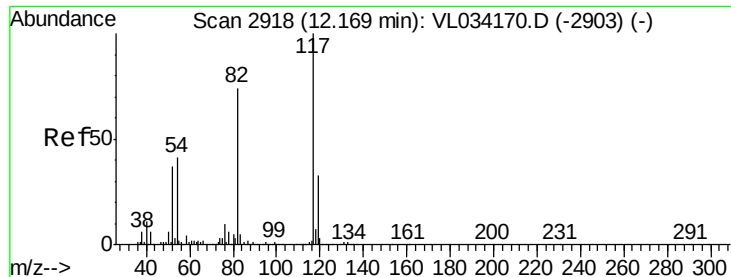
92 63.4 49.0 73.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.16 min Scan# 2914

Delta R.T. -0.01 min

Lab File: VL034239.D

Acq: 8 Oct 2019 2:17

Instrument :

MSVOA_L

ClientSampleId :

V-2

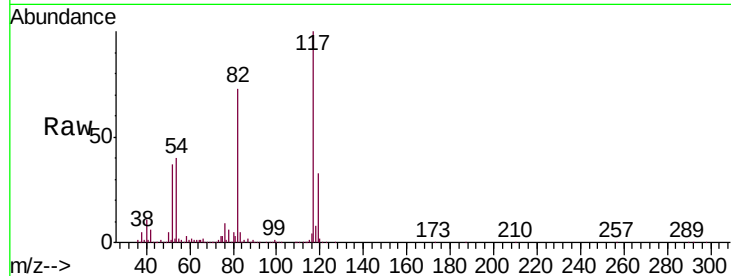
Tgt Ion:117 Resp: 1885269

Ion Ratio Lower Upper

117 100

82 76.0 58.2 87.4

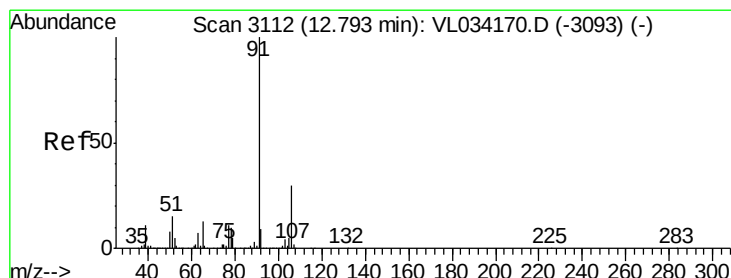
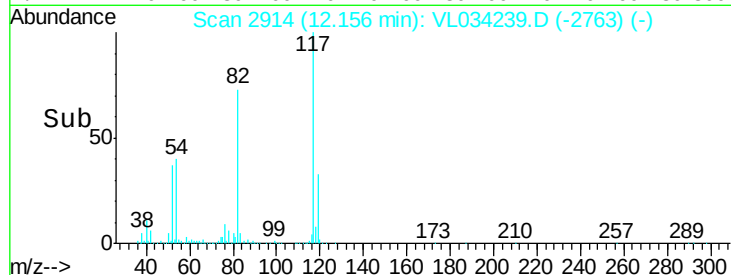
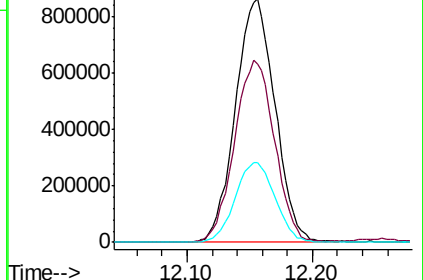
119 33.4 23.7 35.5



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 2.431 ppbv

RT: 12.78 min Scan# 3107

Delta R.T. -0.02 min

Lab File: VL034239.D

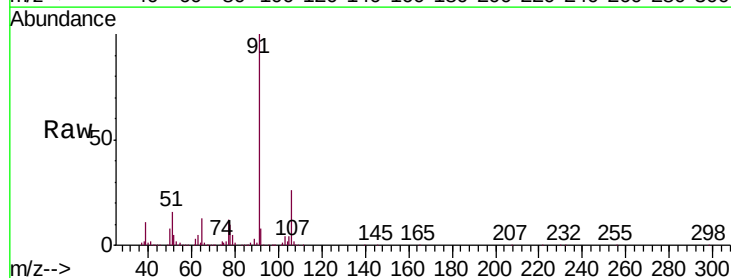
Acq: 8 Oct 2019 2:17

Tgt Ion: 91 Resp: 739500

Ion Ratio Lower Upper

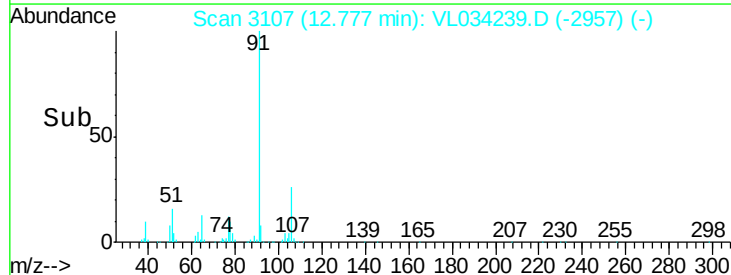
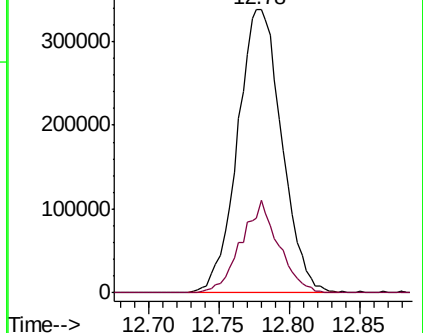
91 100

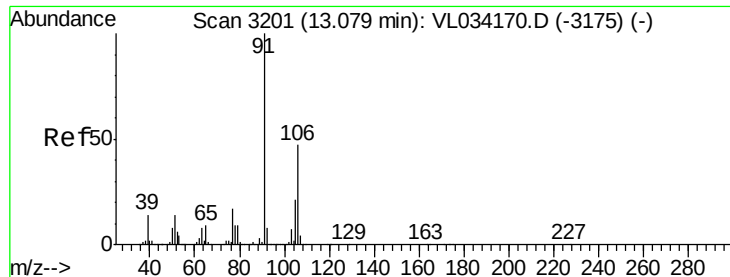
106 26.4 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 8.163 ppbv

RT: 13.03 min Scan# 3187

Delta R.T. -0.05 min

Lab File: VL034239.D

Acq: 8 Oct 2019 2:17

Instrument :

MSVOA_L

ClientSampleId :

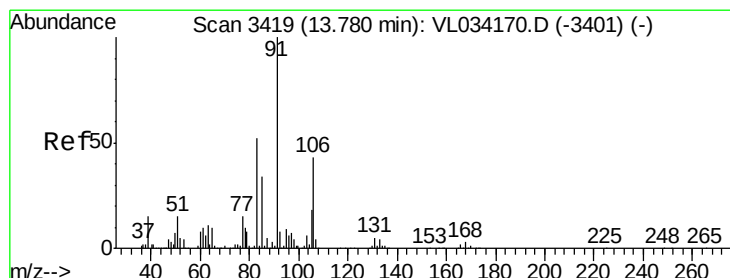
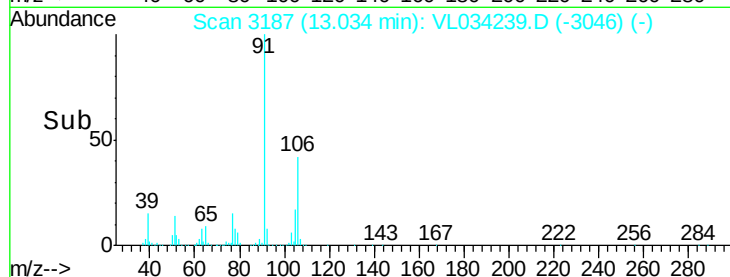
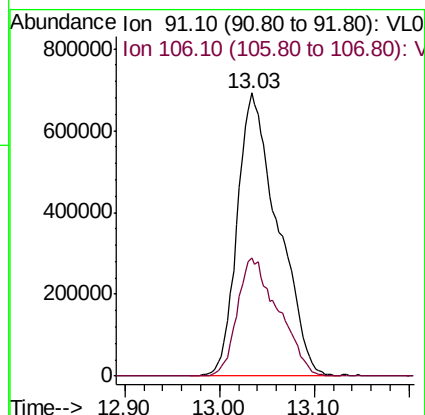
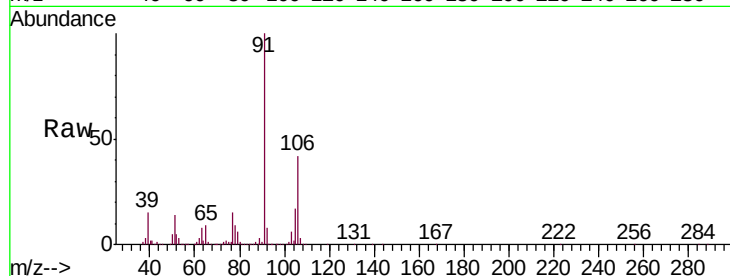
V-2

Tgt Ion: 91 Resp: 2056806

Ion Ratio Lower Upper

91 100

106 42.4 35.5 53.3



#60

o-Xylene

Concen: 3.142 ppbv

RT: 13.76 min Scan# 3413

Delta R.T. -0.02 min

Lab File: VL034239.D

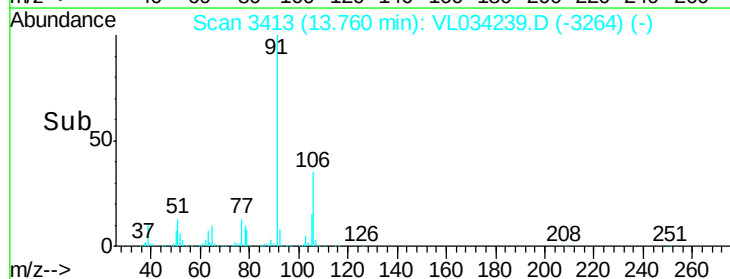
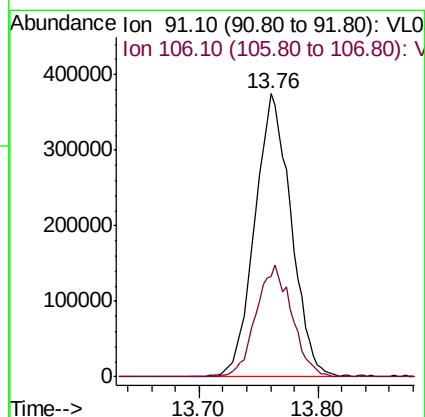
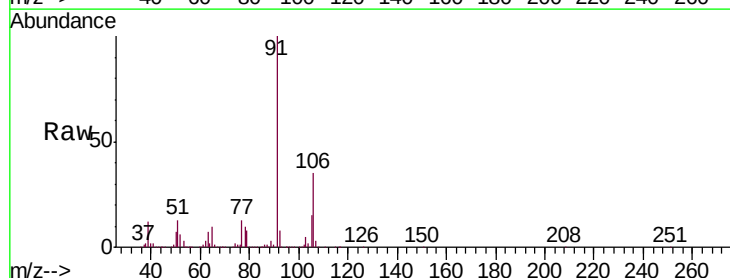
Acq: 8 Oct 2019 2:17

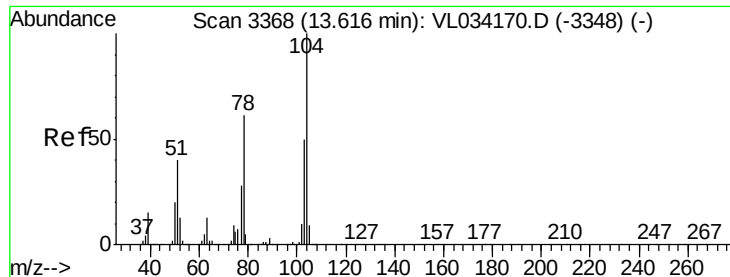
Tgt Ion: 91 Resp: 791492

Ion Ratio Lower Upper

91 100

106 39.4 21.2 63.6





#61

Styrene

Concen: 0.484 ppbv

RT: 13.60 min Scan# 3363

Delta R.T. -0.02 min

Lab File: VL034239.D

Acq: 8 Oct 2019 2:17

Instrument :

MSVOA_L

ClientSampleId :

V-2

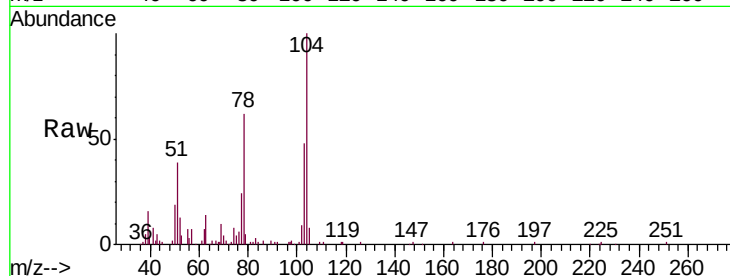
Tgt Ion:104 Resp: 87263

Ion Ratio Lower Upper

104 100

78 64.5 49.7 74.5

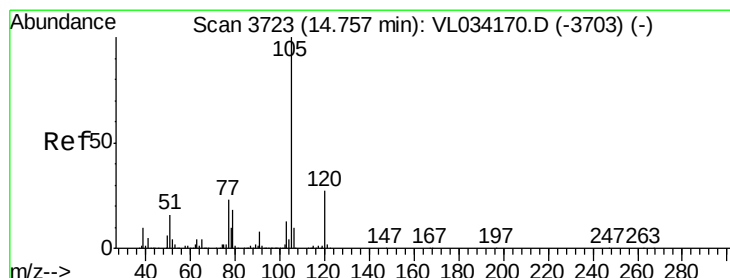
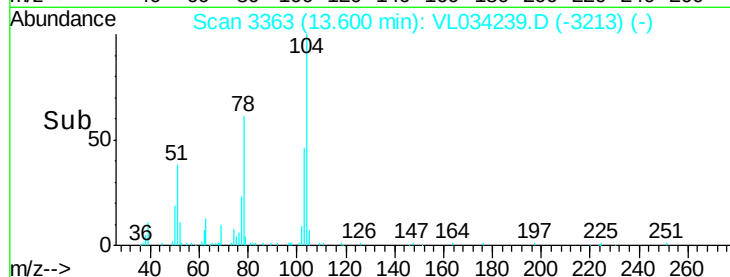
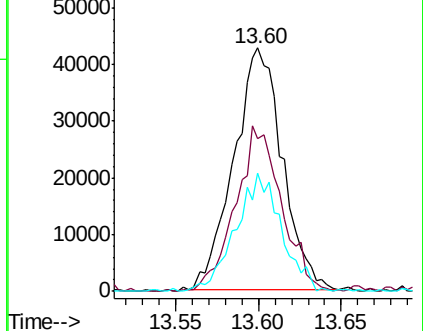
103 46.1 38.4 57.6



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



#62

Isopropylbenzene

Concen: 0.067 ppbv

RT: 14.74 min Scan# 3719

Delta R.T. -0.01 min

Lab File: VL034239.D

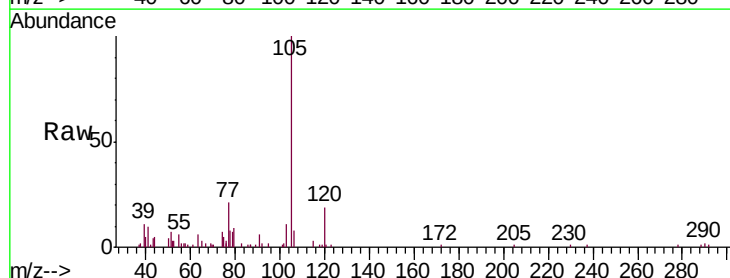
Acq: 8 Oct 2019 2:17

Tgt Ion:105 Resp: 21692

Ion Ratio Lower Upper

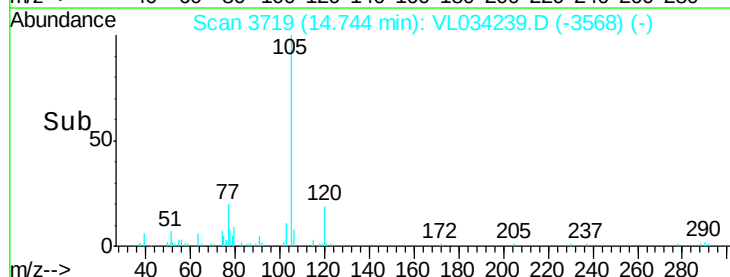
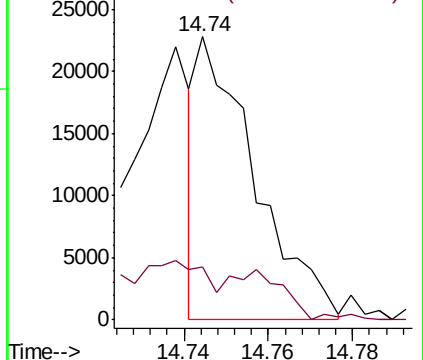
105 100

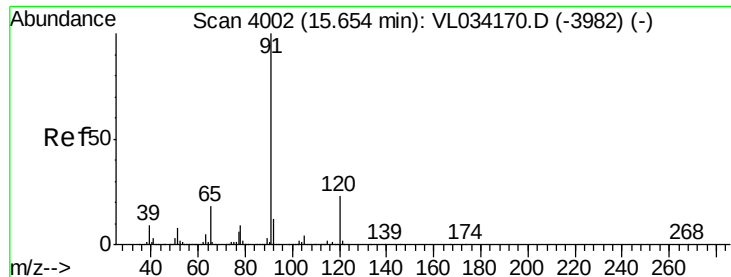
120 0.0 20.7 31.1#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

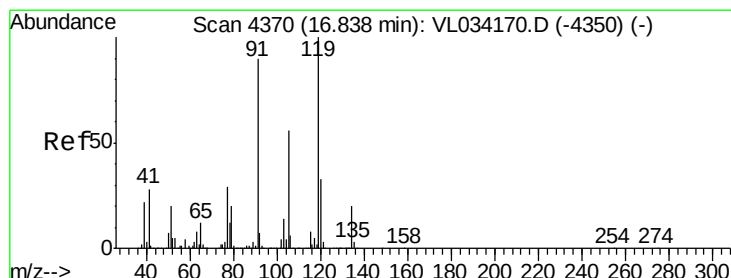
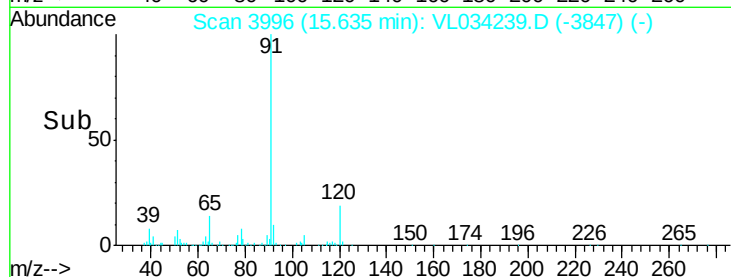
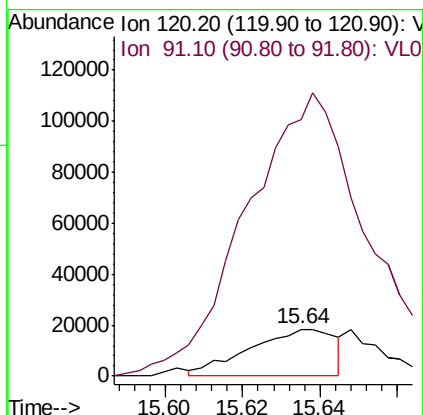
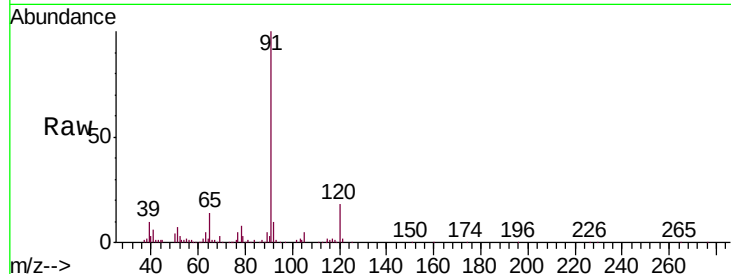




#64
n-propylbenzene
Concen: 0.345 ppbv
RT: 15.64 min Scan# 3996
Delta R.T. -0.02 min
Lab File: VL034239.D
Acq: 8 Oct 2019 2:17

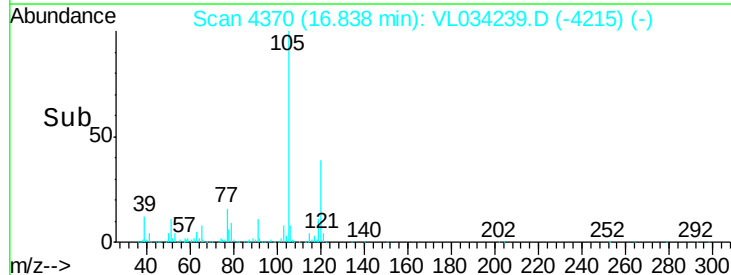
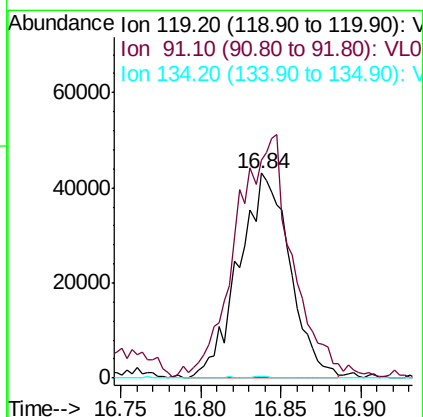
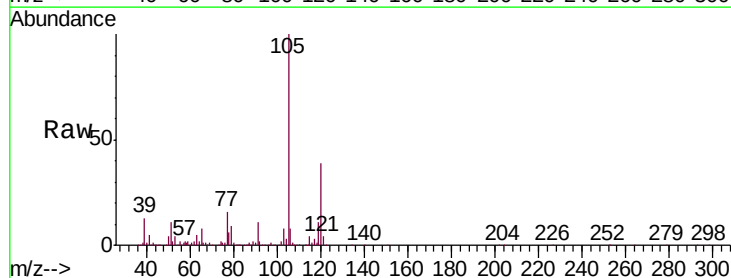
Instrument :
MSVOA_L
ClientSampled :
V-2

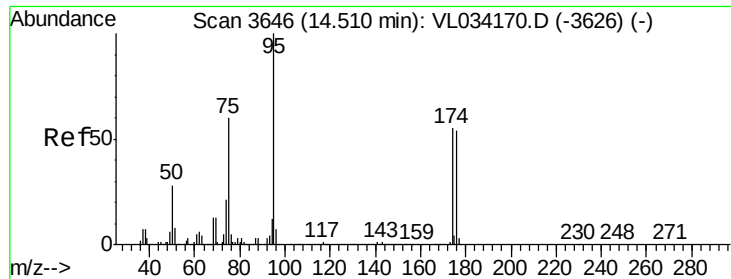
Tgt Ion:120 Resp: 28490
Ion Ratio Lower Upper
120 100
91 853.4 378.2 567.2#



#65
tert-Butylbenzene
Concen: 0.330 ppbv
RT: 16.84 min Scan# 4370
Delta R.T. -0.00 min
Lab File: VL034239.D
Acq: 8 Oct 2019 2:17

Tgt Ion:119 Resp: 94113
Ion Ratio Lower Upper
119 100
91 133.8 74.9 112.3#
134 0.3 15.8 23.6#

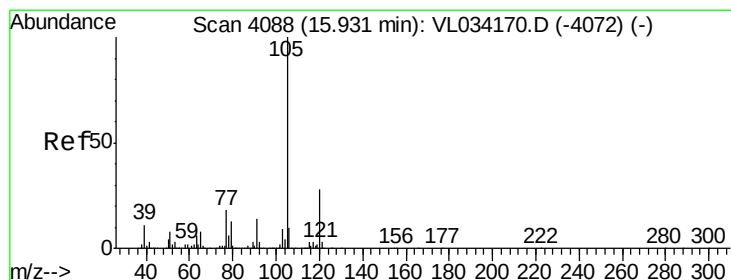
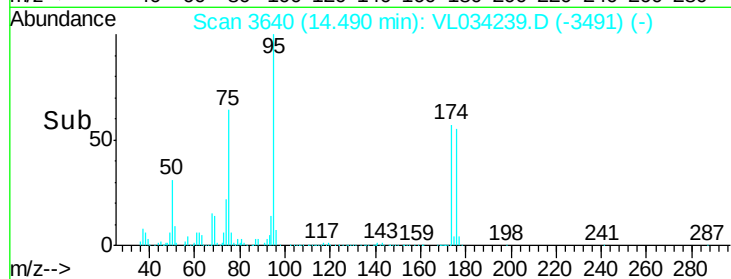
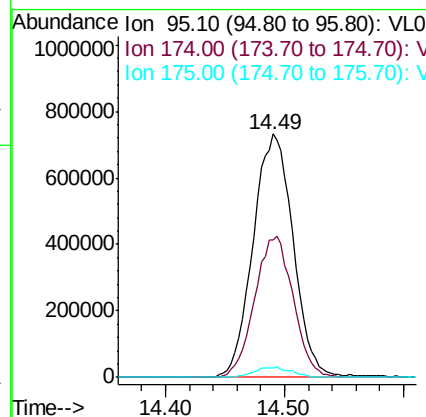
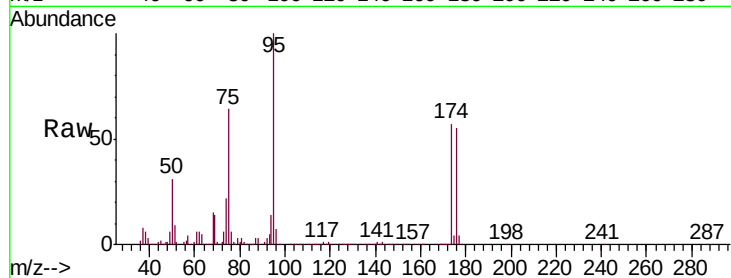




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.382 ppbv
 RT: 14.49 min Scan# 3640
 Delta R.T. -0.02 min
 Lab File: VL034239.D
 Acq: 8 Oct 2019 2:17

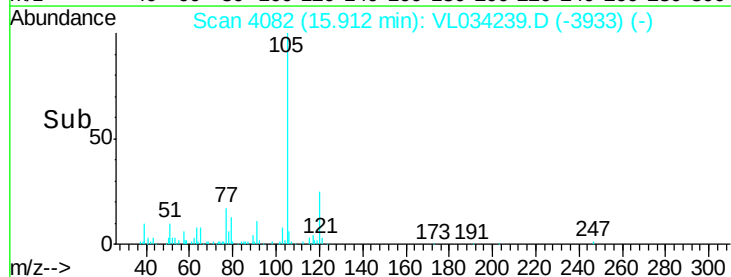
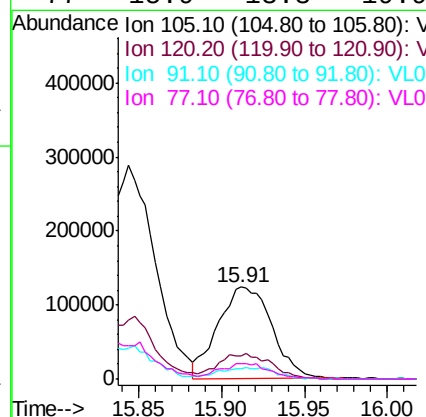
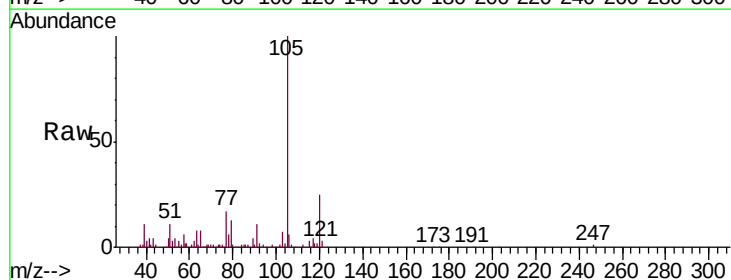
Instrument :
 MSVOA_L
 ClientSampleId :
 V-2

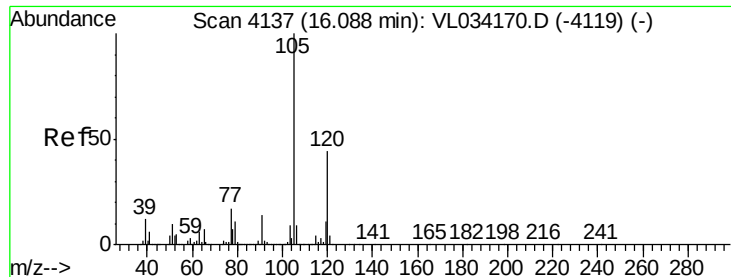
Tgt Ion: 95 Resp: 1700780
 Ion Ratio Lower Upper
 95 100
 174 56.2 45.1 67.7
 175 4.0 3.3 4.9



#72
 4-Ethyltoluene
 Concen: 0.975 ppbv
 RT: 15.91 min Scan# 4082
 Delta R.T. -0.02 min
 Lab File: VL034239.D
 Acq: 8 Oct 2019 2:17

Tgt Ion: 105 Resp: 277574
 Ion Ratio Lower Upper
 105 100
 120 27.3 23.3 34.9
 91 13.6 11.4 17.2
 77 15.9 13.3 19.9





#73

1,3,5-Trimethylbenzene

Concen: 0.909 ppbv

RT: 16.07 min Scan# 4131

Delta R.T. -0.02 min

Lab File: VL034239.D

Acq: 8 Oct 2019 2:17

Instrument :

MSVOA_L

ClientSampled :

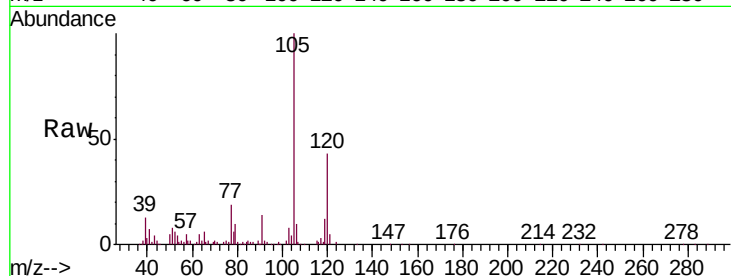
V-2

Tgt Ion:105 Resp: 250059

Ion Ratio Lower Upper

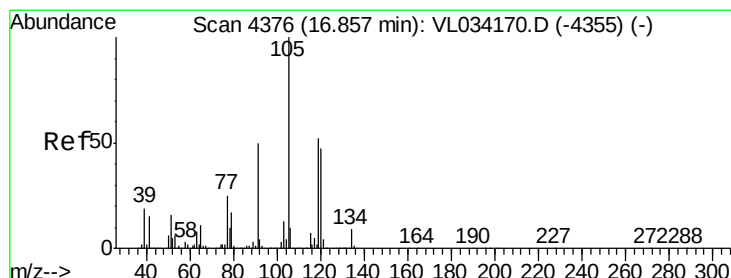
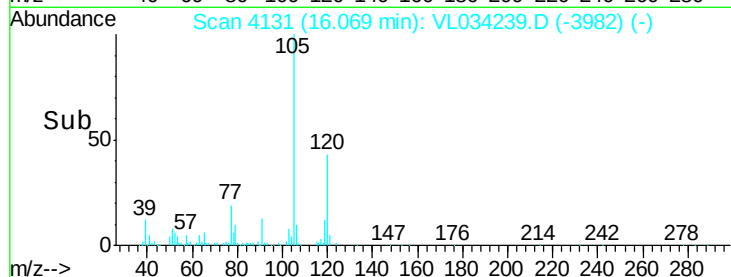
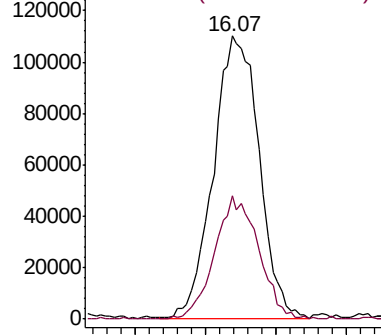
105 100

120 43.5 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: 3.089 ppbv

RT: 16.84 min Scan# 4370

Delta R.T. -0.02 min

Lab File: VL034239.D

Acq: 8 Oct 2019 2:17

Tgt Ion:105 Resp: 901950

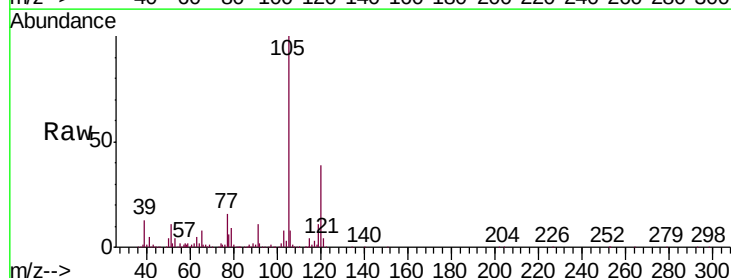
Ion Ratio Lower Upper

105 100

120 38.9 37.5 56.3

91 11.0 41.1 61.7#

77 15.7 19.9 29.9#

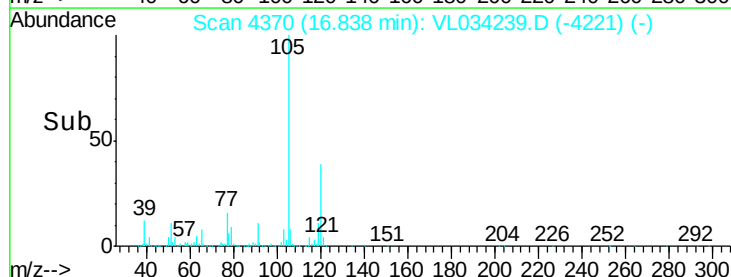
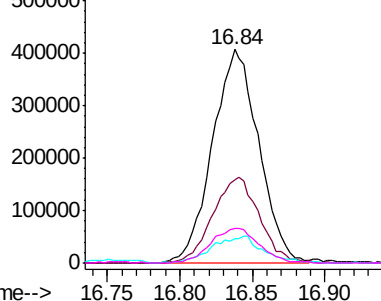


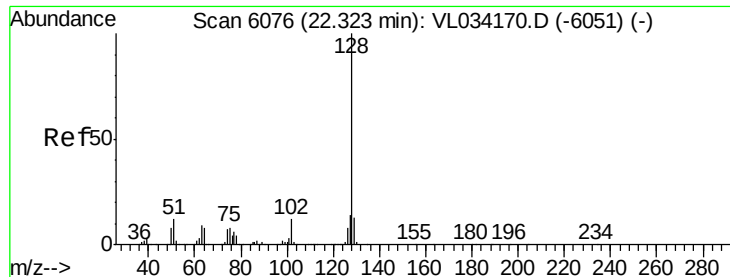
Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.207 ppbv

RT: 22.30 min Scan# 6069

Delta R.T. -0.02 min

Lab File: VL034239.D

Acq: 8 Oct 2019 2:17

Instrument :

MSVOA_L

ClientSampleId :

V-2

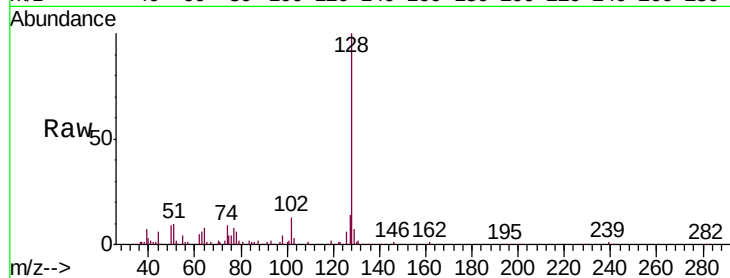
Tgt Ion:128 Resp: 53213

Ion Ratio Lower Upper

128 100

127 14.2 11.1 16.7

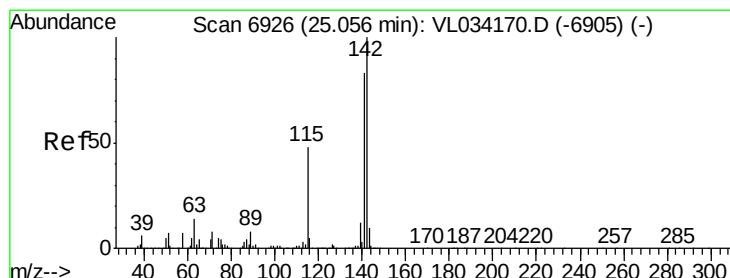
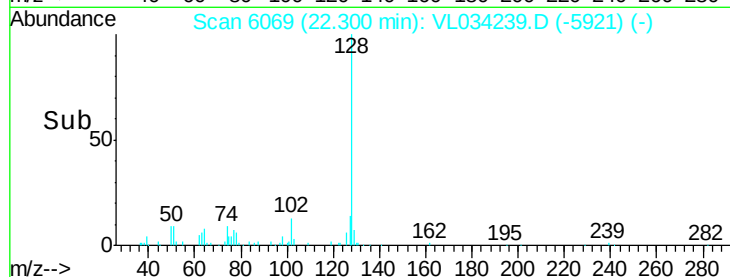
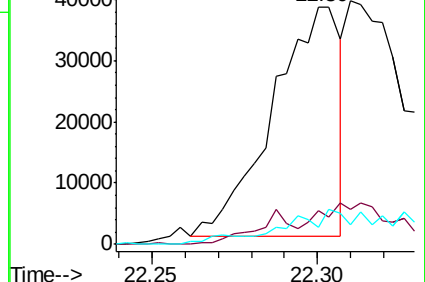
129 6.6 10.2 15.4#



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.082 ppbv

RT: 25.36 min Scan# 7021

Delta R.T. 0.31 min

Lab File: VL034239.D

Acq: 8 Oct 2019 2:17

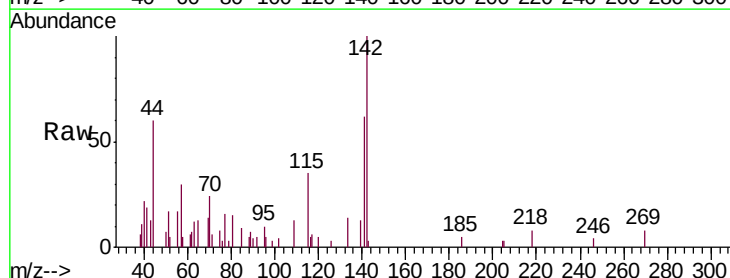
Tgt Ion:142 Resp: 9835

Ion Ratio Lower Upper

142 100

141 83.8 67.6 101.4

115 48.4 36.9 55.3



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

