

Data File : VL034054.D
Acq On : 30 Jul 2019 6:00
Operator : SY/AP
Sample : VSTDIC015
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Quant Time: Jul 30 06:39:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL073019AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 30 05:02:48 2019
QLast Update : Tue Jul 30 05:02:48 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1292340	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	4366231	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.19	117	3535469	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.53	95	2632605	9.07	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.70%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.05	85	2357452	8.683	ppbv	98
3) Chlorodifluoromethane	2.99	51	1710641	10.552	ppbv	99
4) Chloromethane	3.14	50	988893	10.374	ppbv	98
5) Vinyl Chloride	3.26	62	1078035	10.168	ppbv	99
6) Bromomethane	3.49	94	767901	11.942	ppbv	93
7) Chloroethane	3.57	64	470679	12.011	ppbv	90
8) Dichlorotetrafluoroethane	3.19	85	2746287	10.183	ppbv	100
9) Propene	3.01	41	666725	11.186	ppbv	99
10) Heptane	8.20	43	2147910	14.917	ppbv	99
11) Trichlorofluoromethane	3.97	101	3368403	10.750	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.52	101	2363312	11.334	ppbv	99
13) Ethanol	3.62	45	166055	8.867	ppbv	99
14) Bromoethene	3.76	108	1047329	12.867	ppbv	99
15) Acetone	3.87	43	2324412	10.278	ppbv	99
16) 1,3-Butadiene	3.34	39	946249	11.566	ppbv	98
17) tert-Butyl alcohol	4.33	59	1925369	11.177	ppbv	100
18) 1,1-Dichloroethene	4.32	96	1122803	12.017	ppbv	96
19) Isopropyl Alcohol	3.99	45	1459377	9.600	ppbv	99
20) Methylene Chloride	4.37	84	967945	10.391	ppbv	97
21) Allyl Chloride	4.44	41	1693901	12.693	ppbv	98
22) trans-1,2-Dichloroethene	4.92	96	1139782	12.806	ppbv	90
23) Vinyl Acetate	5.12	43	2996802	14.091	ppbv	99
24) 1,1-Dichloroethane	5.06	63	2398025	12.592	ppbv	99
25) Ethyl Acetate	5.73	43	4105447	13.982	ppbv	100
26) Hexane	5.74	57	1846153	13.724	ppbv	98
27) Carbon Disulfide	4.58	76	2935336	12.958	ppbv	99
28) Methyl tert-Butyl Ether	5.07	73	2962770	13.051	ppbv	100
29) Chloroform	5.81	83	3194438	12.657	ppbv	99
30) Cyclohexane	7.20	84	2128404	19.321	ppbv	98
31) cis-1,2-Dichloroethene	5.61	61	1907624	14.737	ppbv	95
32) 1,1,1-Trichloroethane	6.58	97	3102796	12.133	ppbv	99
34) 2-Butanone	5.29	43	2417908	11.172	ppbv	100
35) Carbon Tetrachloride	7.09	117	4664972	14.146	ppbv	96
36) Benzene	6.97	78	5167421	16.310	ppbv	100
37) 1,2-Dichloroethane	6.37	62	2471171	10.472	ppbv	99
38) Trichloroethene	7.92	130	2211288	15.328	ppbv	96
39) 1,2-Dichloropropane	7.69	63	1884376	15.738	ppbv	98
40) 1,4-Dioxane	7.91	88	723866	13.258	ppbv #	1
41) Tetrahydrofuran	6.11	42	1320844	12.571	ppbv	100
42) Bromodichloromethane	7.88	83	4795980	15.196	ppbv	97
43) Methyl Methacrylate	8.09	69	1532132	12.777	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.95	57	8372138	15.253	ppbv	99
45) t-1,3-Dichloropropene	9.37	75	2200798	14.185	ppbv	97
46) cis-1,3-Dichloropropene	8.79	75	2439834	13.492	ppbv	99
47) 1,1,2-Trichloroethane	9.57	97	1629766	10.944	ppbv	95
48) Dibromochloromethane	10.40	129	3028844	10.102	ppbv	98
49) Bromoform	13.15	173	2857766	11.761	ppbv	99
50) 4-Methyl-2-Pentanone	8.82	43	3824580	12.008	ppbv	100
51) 2-Hexanone	10.22	43	3131616	11.501	ppbv #	99
52) Tetrachloroethene	11.33	164	1545291	11.092	ppbv	99
53) Toluene	9.90	91	4629882	12.835	ppbv	99
54) 1,2-Dibromoethane	10.71	107	2549064	11.672	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.23	131	2038328	13.108	ppbv	96
57) Chlorobenzene	12.25	112	3595221	12.979	ppbv	98
58) Ethyl Benzene	12.82	91	6420041	15.341	ppbv	98
59) m/p-Xylene	13.10	91	5088266	13.421	ppbv #	23
60) o-Xylene	13.80	91	5278110	13.875	ppbv	99
61) Styrene	13.63	104	4060062	16.235	ppbv	99
62) Isopropylbenzene	14.78	105	6941804	12.635	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.79	83	3745558	12.687	ppbv	99
64) n-propylbenzene	15.68	120	1804769	12.700	ppbv	98
65) tert-Butylbenzene	16.86	119	6183615	13.350	ppbv	99
66) Benzyl Chloride	17.11	91	3631014	15.501	ppbv	99
67) sec-Butylbenzene	17.41	105	8840090	13.523	ppbv	99
69) p-Isopropyltoluene	17.77	119	7294886	13.570	ppbv	99
70) n-Butylbenzene	18.67	91	7601666	13.436	ppbv	100
71) 2-Chlorotoluene	15.57	91	5298204	13.242	ppbv	99
72) 4-Ethyltoluene	15.95	105	6081496	13.194	ppbv	98
73) 1,3,5-Trimethylbenzene	16.11	105	5932055	13.955	ppbv	99
74) 1,2,4-Trimethylbenzene	16.88	105	6102831	12.967	ppbv	98
75) 1,3-Dichlorobenzene	17.12	146	3611519	12.028	ppbv	99
76) 1,4-Dichlorobenzene	17.26	146	3627451	12.836	ppbv	100
77) 1,2-Dichlorobenzene	17.94	146	3471205	12.510	ppbv	99
78) Hexachloro-1,3-Butadiene	23.49	225	2782419	11.490	ppbv	98
79) Naphthalene	22.35	128	5957058	15.032	ppbv	97
80) Naphthalene,2-methyl-	25.07	142	1940750	13.528	ppbv	98
81) 1,2,4-Trichlorobenzene	22.07	180	3523963	13.755	ppbv	100

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

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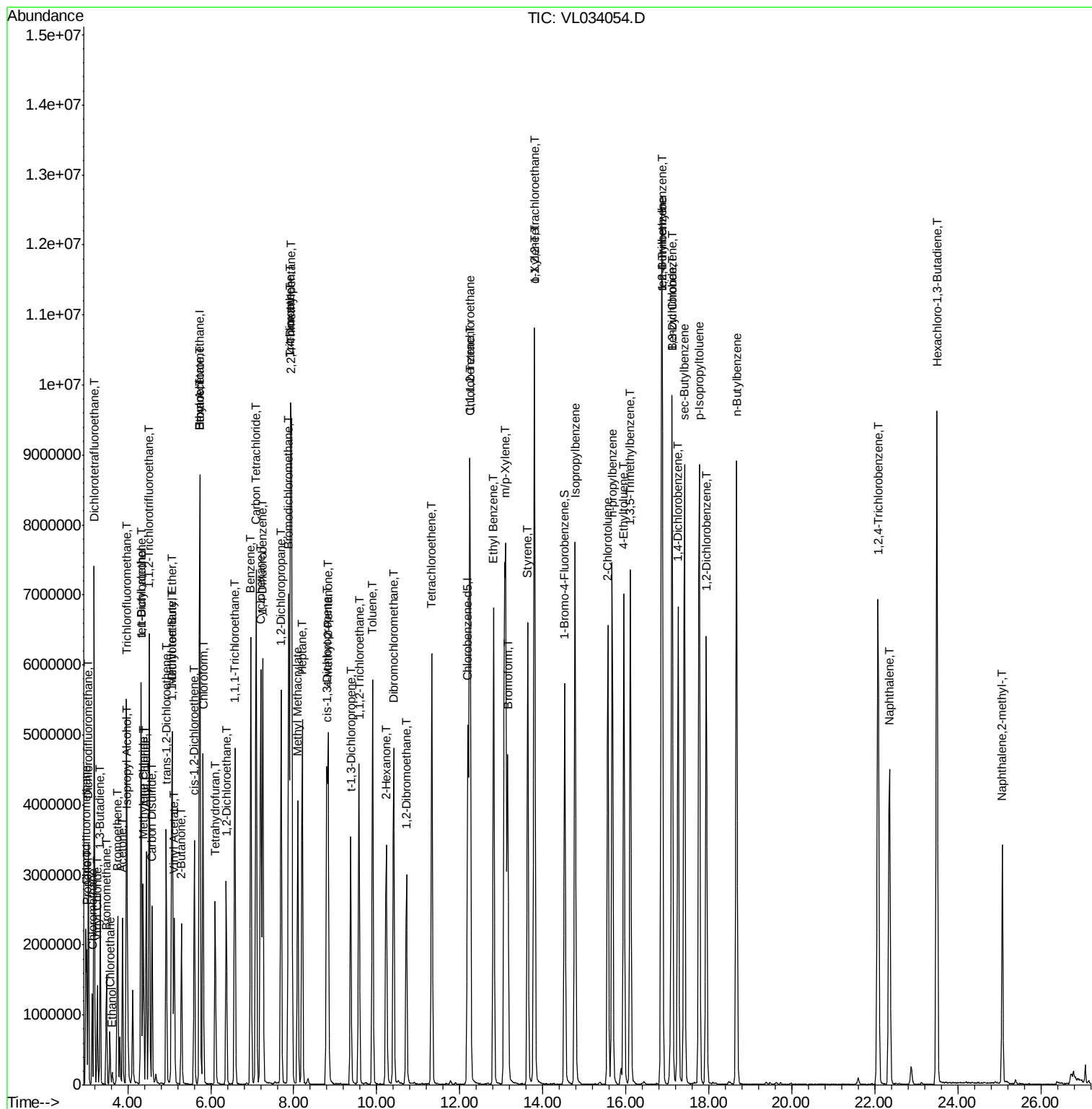
Quant Time: Jul 30 06:39:33 2019

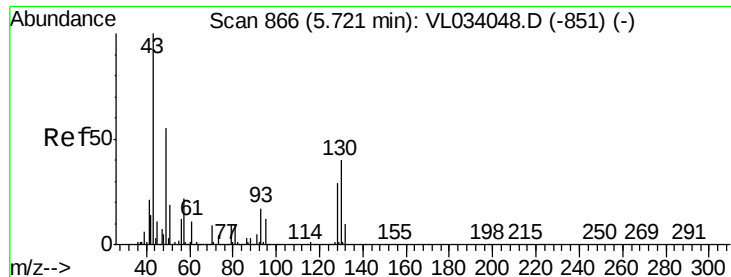
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL073019AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LTue Jul 30 05:02:48 2019

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 867

Delta R.T. 0.00 min

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ClientSampleId :

VSTDIC015

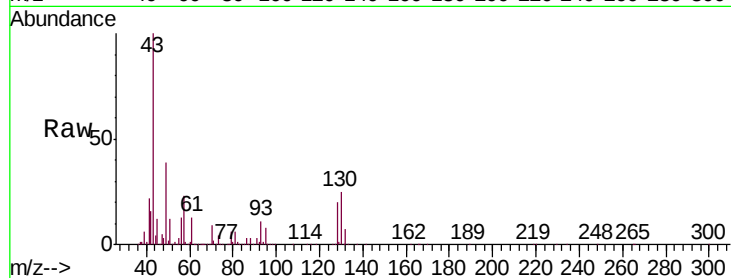
Tgt Ion: 49 Resp: 1292340

Ion Ratio Lower Upper

49 100

128 52.2 27.0 81.0

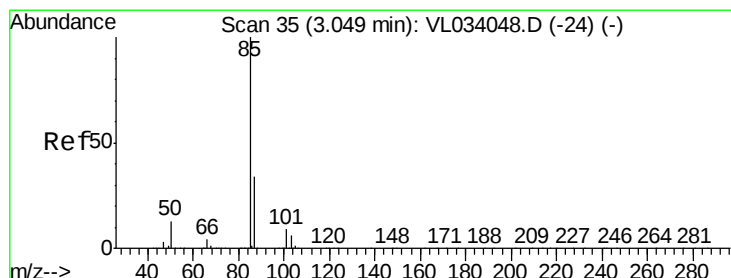
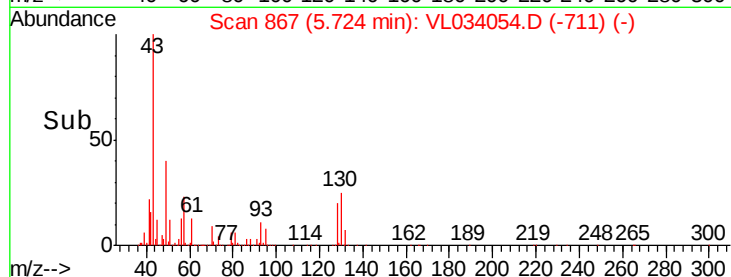
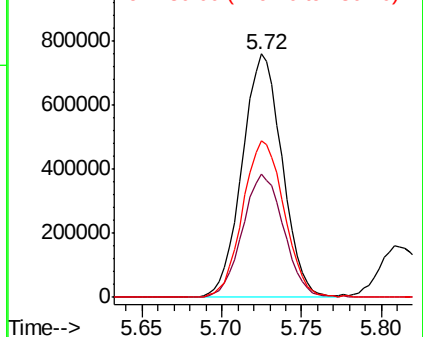
130 67.2 35.0 105.0



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: 8.683 ppbv

RT: 3.05 min Scan# 36

Delta R.T. 0.00 min

Lab File: VL034054.D

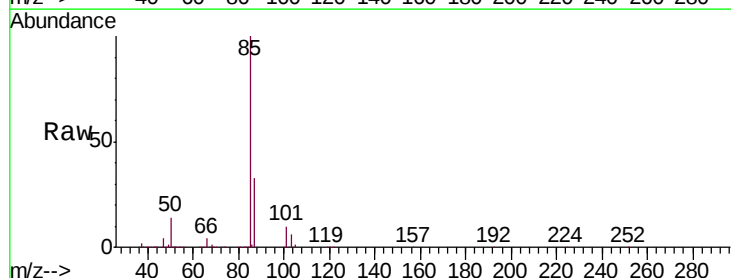
Acq: 30 Jul 2019 6:00

Tgt Ion: 85 Resp: 2357452

Ion Ratio Lower Upper

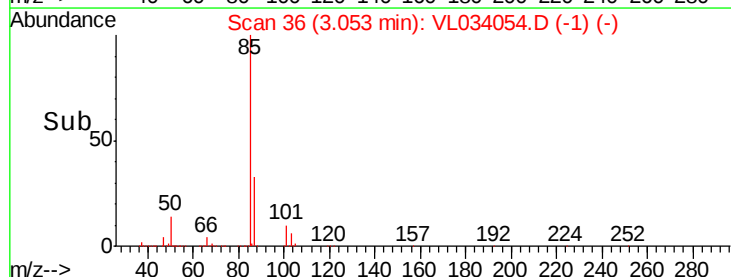
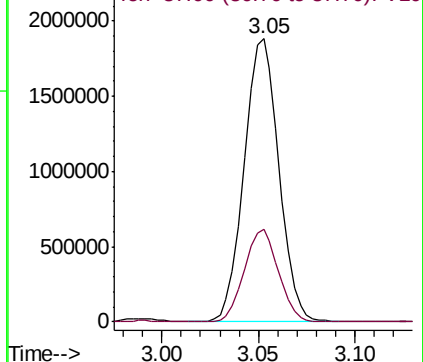
85 100

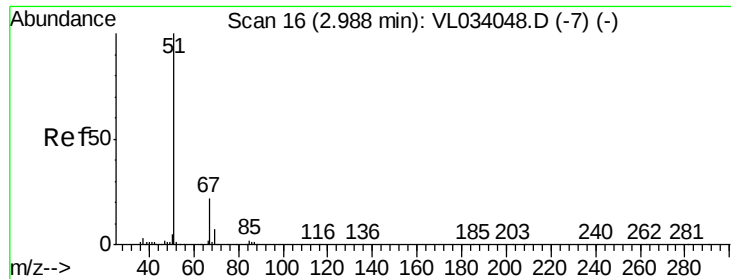
87 32.7 27.0 40.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

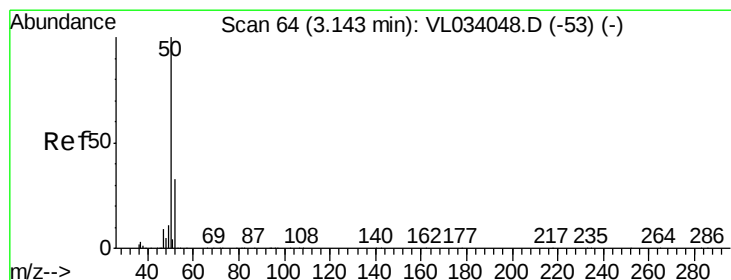
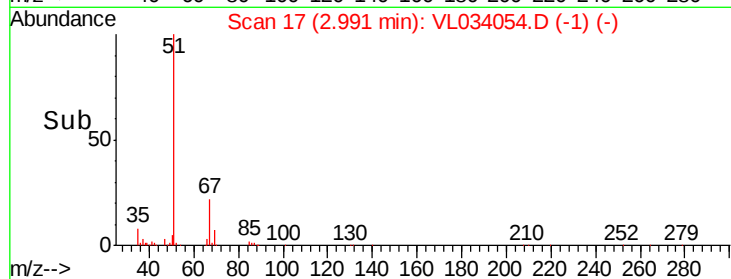
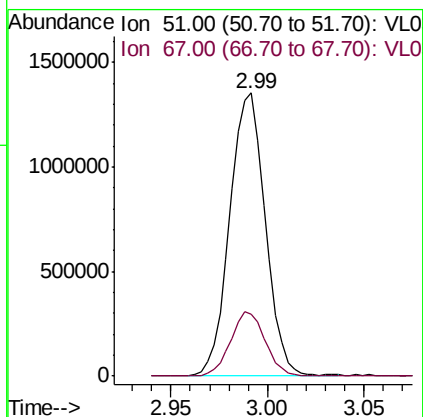
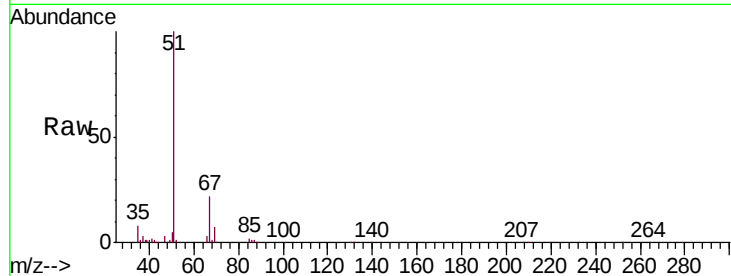




#3
 Chlorodifluoromethane
 Concen: 10.552 ppbv
 RT: 2.99 min Scan# 17
 Delta R.T. 0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

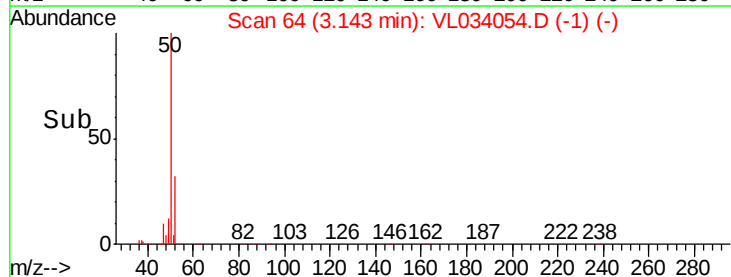
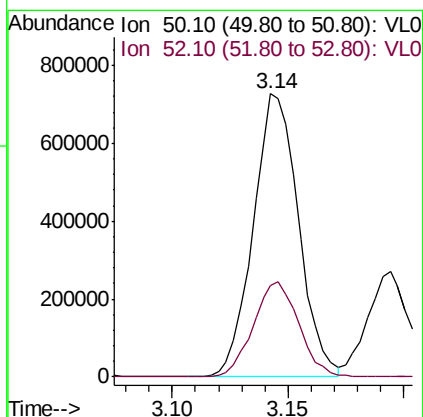
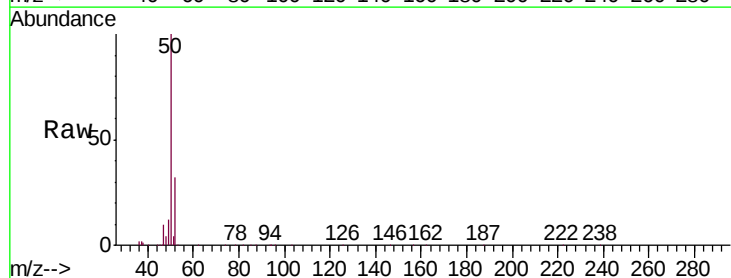
Instrument :
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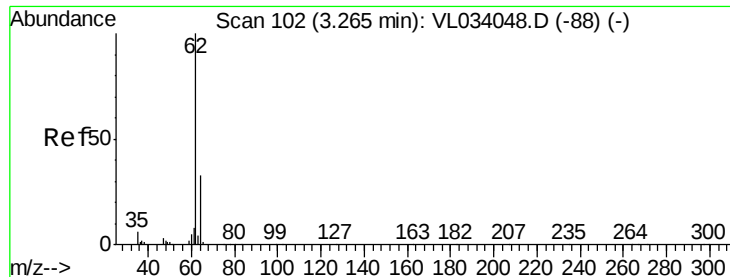
Tgt Ion: 51 Resp: 1710641
 Ion Ratio Lower Upper
 51 100
 67 22.3 17.4 26.0



#4
 Chloromethane
 Concen: 10.374 ppbv
 RT: 3.14 min Scan# 64
 Delta R.T. -0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Tgt Ion: 50 Resp: 988893
 Ion Ratio Lower Upper
 50 100
 52 32.3 26.7 40.1





#5

Vinyl Chloride

Concen: 10.168 ppbv

RT: 3.26 min Scan# 102

Delta R.T. -0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

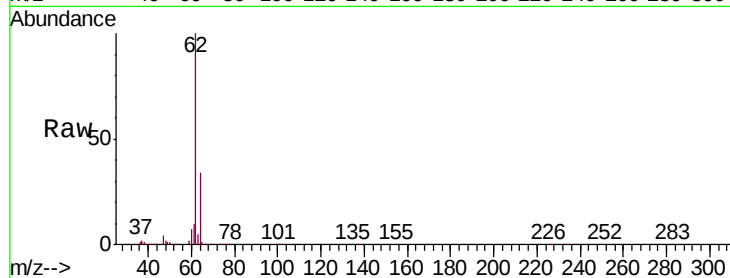
VSTDIC015

Tgt Ion: 62 Resp: 1078035

Ion Ratio Lower Upper

62 100

64 33.7 26.5 39.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.26

800000

600000

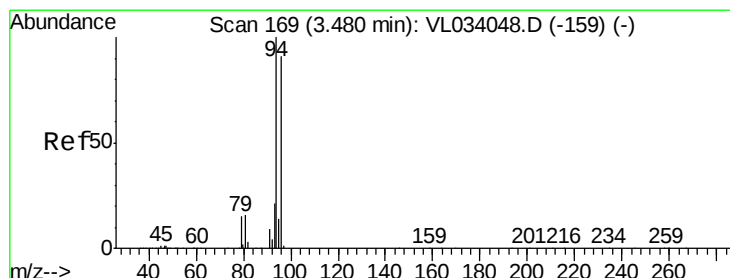
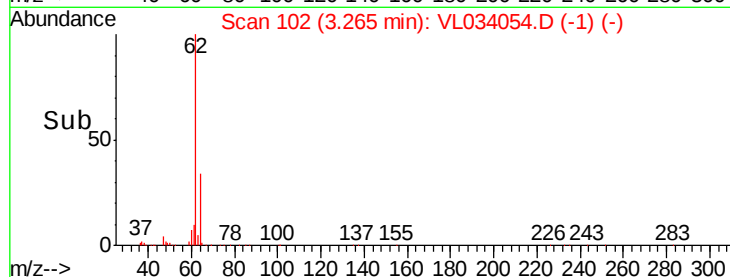
400000

200000

0

3.20 3.25 3.30

Time-->



#6

Bromomethane

Concen: 11.942 ppbv

RT: 3.49 min Scan# 171

Delta R.T. 0.01 min

Lab File: VL034054.D

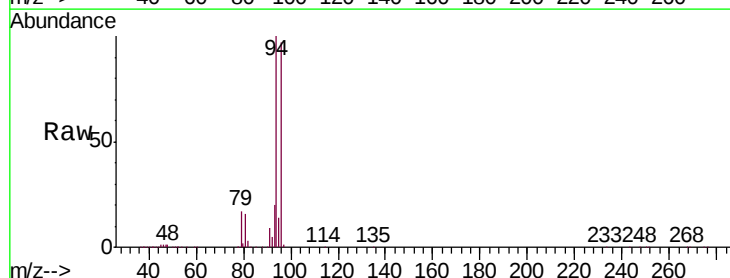
Acq: 30 Jul 2019 6:00

Tgt Ion: 94 Resp: 767901

Ion Ratio Lower Upper

94 100

96 96.9 72.6 108.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.49

600000

500000

400000

300000

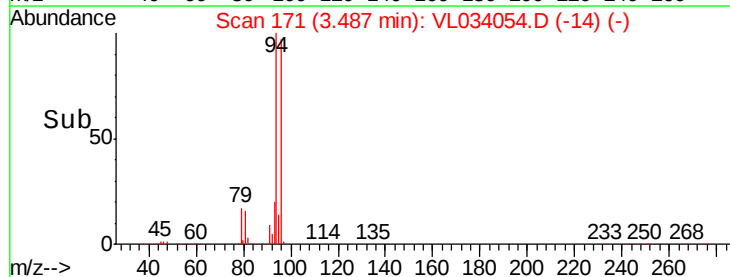
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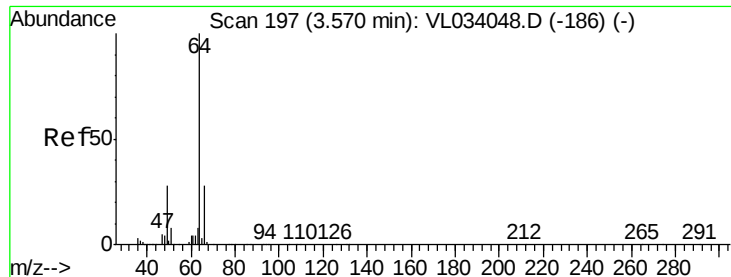
100000

0

3.45 3.50 3.55

Time-->





#7

Chloroethane

Concen: 12.011 ppbv

RT: 3.57 min Scan# 197

Delta R.T. -0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

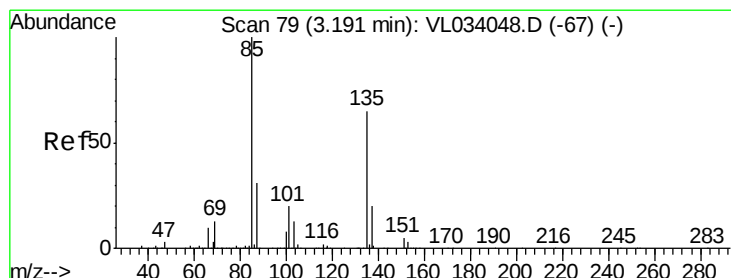
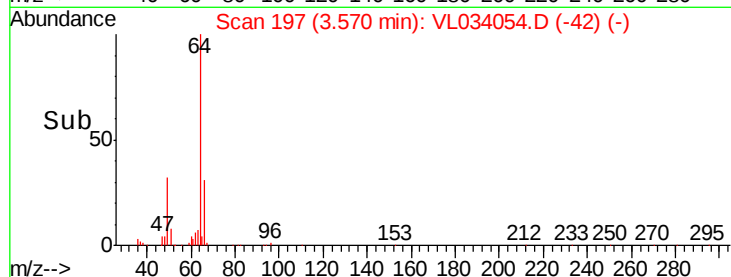
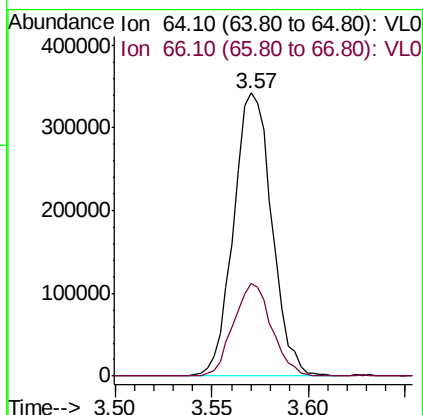
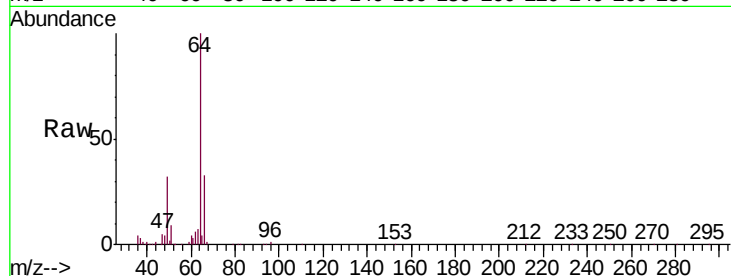
VSTDIC015

Tgt Ion: 64 Resp: 470679

Ion Ratio Lower Upper

64 100

66 32.9 22.0 33.0



#8

Dichlorotetrafluoroethane

Concen: 10.183 ppbv

RT: 3.19 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL034054.D

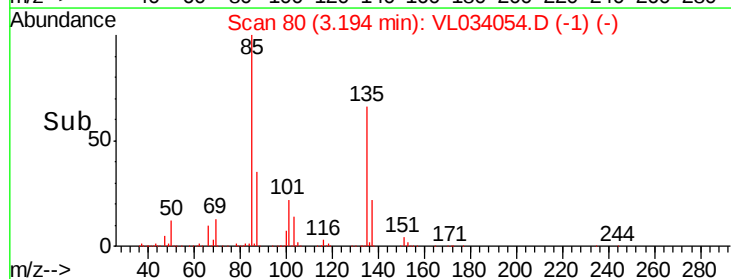
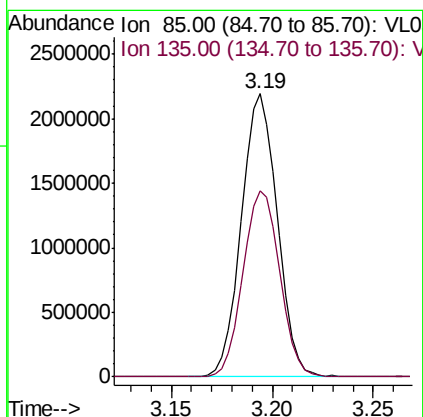
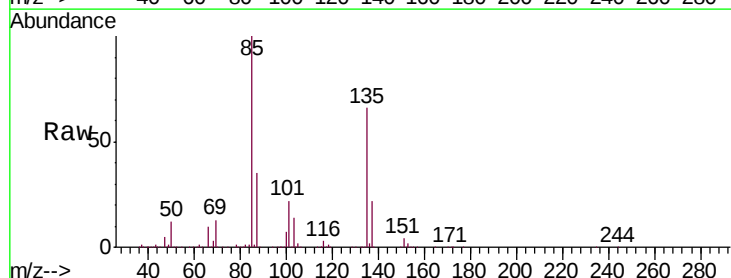
Acq: 30 Jul 2019 6:00

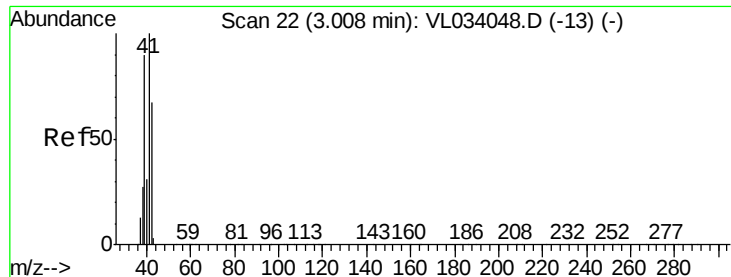
Tgt Ion: 85 Resp: 2746287

Ion Ratio Lower Upper

85 100

135 67.6 54.1 81.1





#9

Propene

Concen: 11.186 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.01 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

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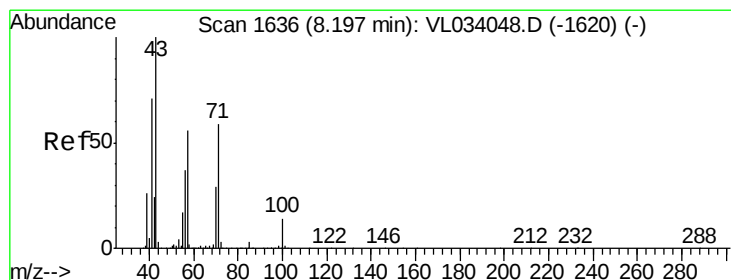
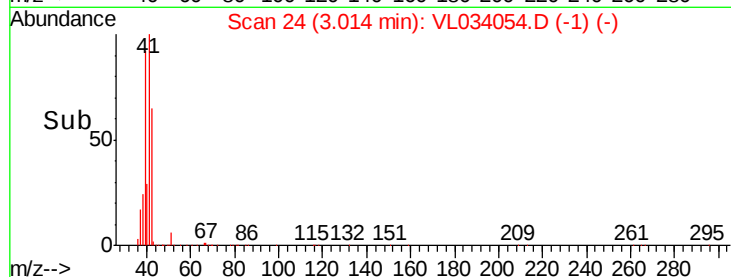
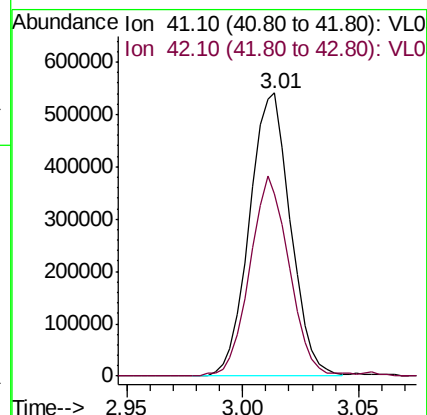
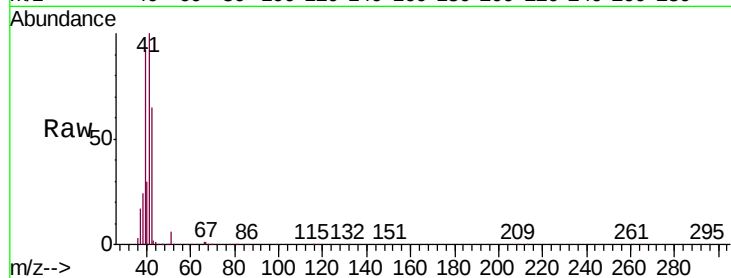
VSTDIC015

Tgt Ion: 41 Resp: 666725

Ion Ratio Lower Upper

41 100

42 68.8 55.4 83.2



#10

Heptane

Concen: 14.917 ppbv

RT: 8.20 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VL034054.D

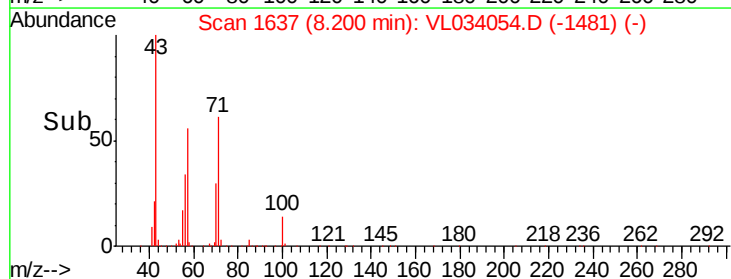
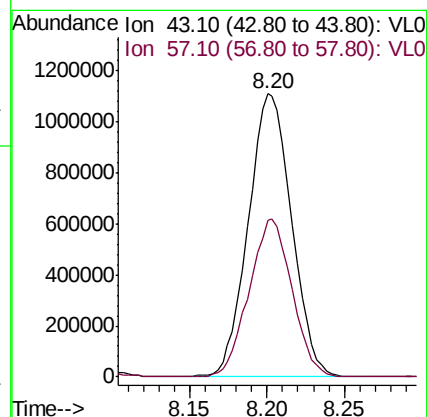
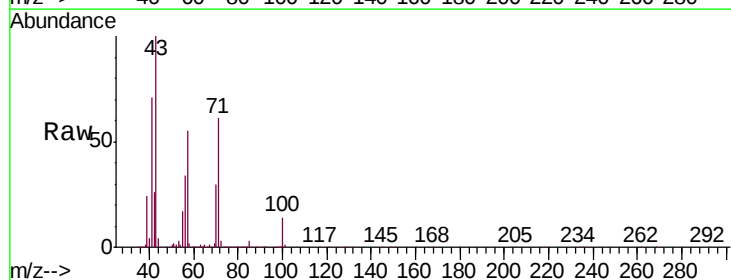
Acq: 30 Jul 2019 6:00

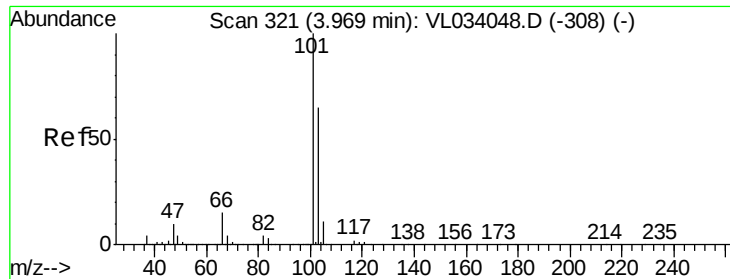
Tgt Ion: 43 Resp: 2147910

Ion Ratio Lower Upper

43 100

57 55.5 44.8 67.2

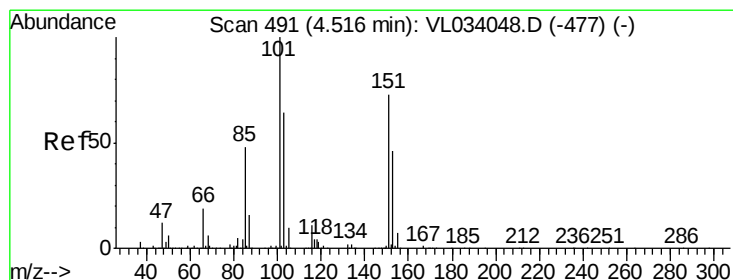
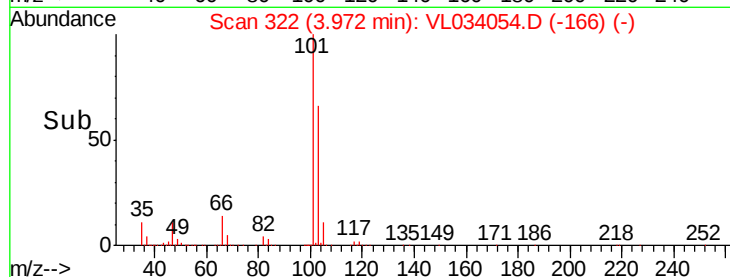
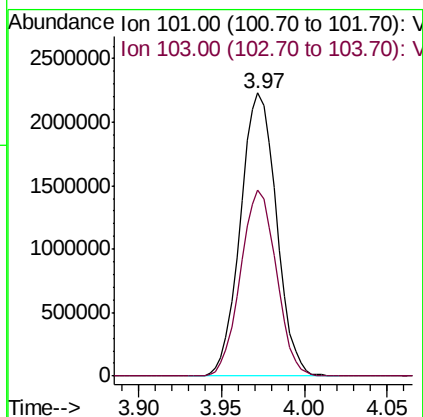
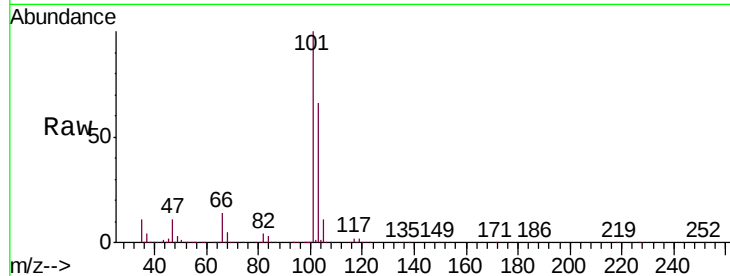




#11
 Trichlorofluoromethane
 Concen: 10.750 ppbv
 RT: 3.97 min Scan# 322
 Delta R.T. 0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

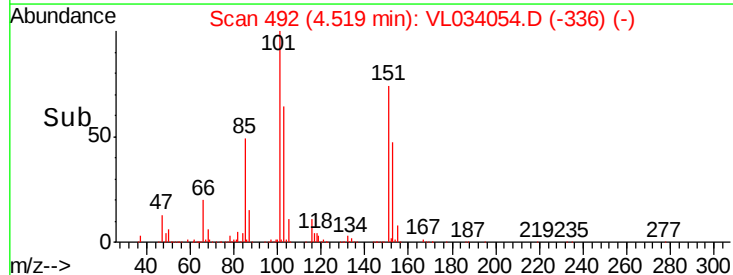
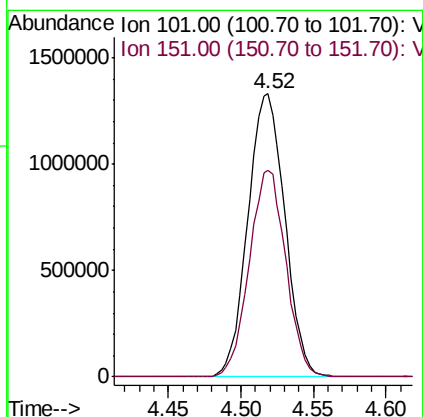
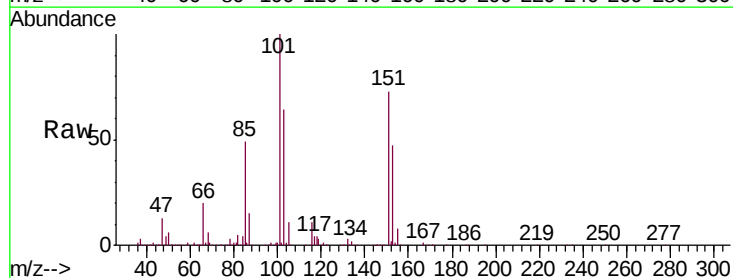
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

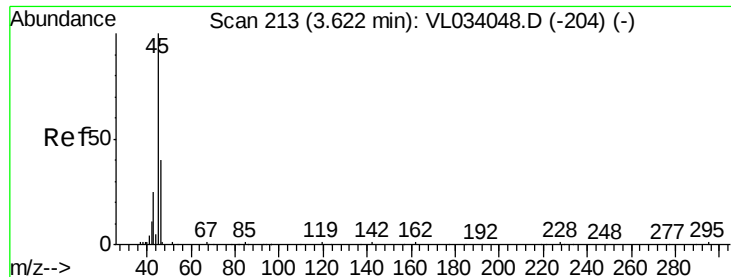
Tgt Ion:101 Resp: 3368403
 Ion Ratio Lower Upper
 101 100
 103 66.0 52.3 78.5



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 11.334 ppbv
 RT: 4.52 min Scan# 492
 Delta R.T. 0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Tgt Ion:101 Resp: 2363312
 Ion Ratio Lower Upper
 101 100
 151 72.4 57.3 85.9





#13

Ethanol

Concen: 8.867 ppbv

RT: 3.62 min Scan# 214

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

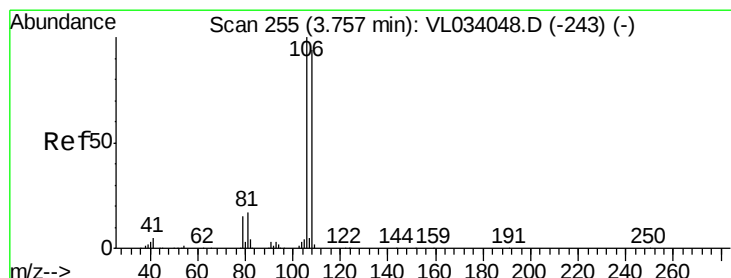
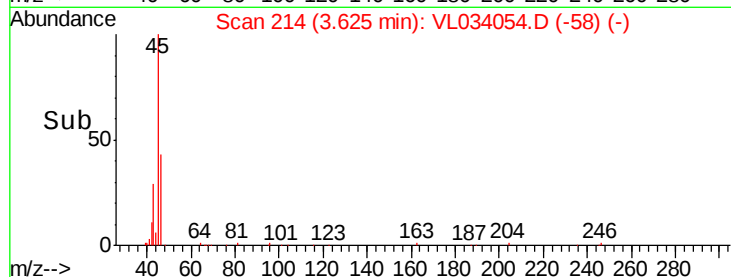
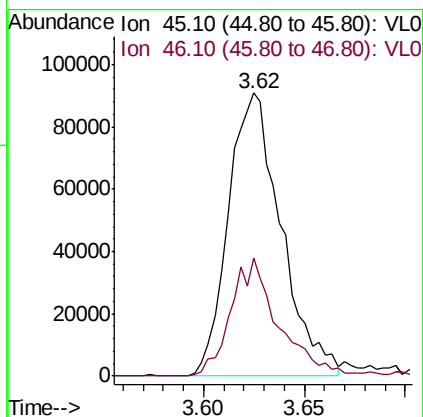
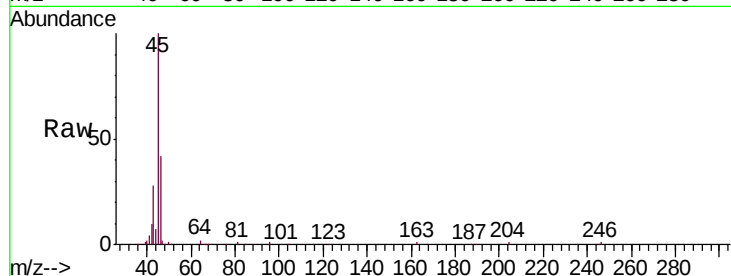
VSTDIC015

Tgt Ion: 45 Resp: 166055

Ion Ratio Lower Upper

45 100

46 39.3 15.6 62.2



#14

Bromoethene

Concen: 12.867 ppbv

RT: 3.76 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

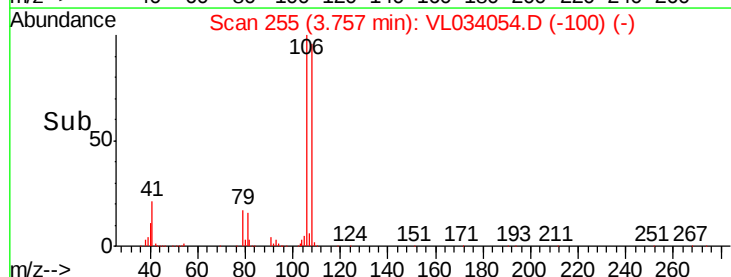
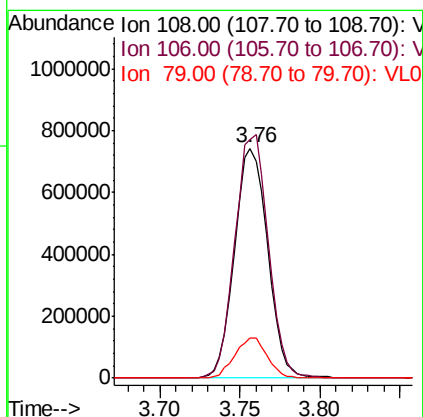
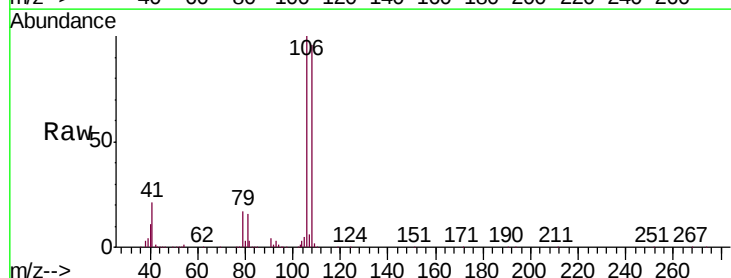
Tgt Ion: 108 Resp: 1047329

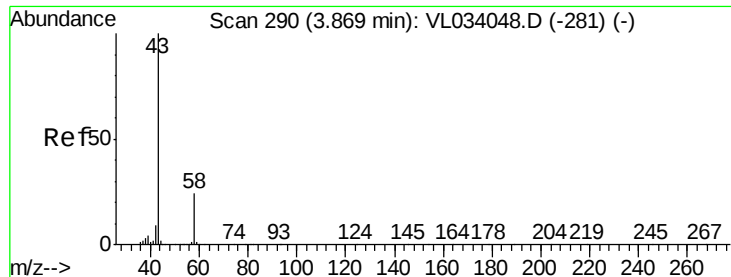
Ion Ratio Lower Upper

108 100

106 106.7 86.2 129.2

79 17.3 13.7 20.5





#15

Acetone

Concen: 10.278 ppbv

RT: 3.87 min Scan# 290

Delta R.T. -0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

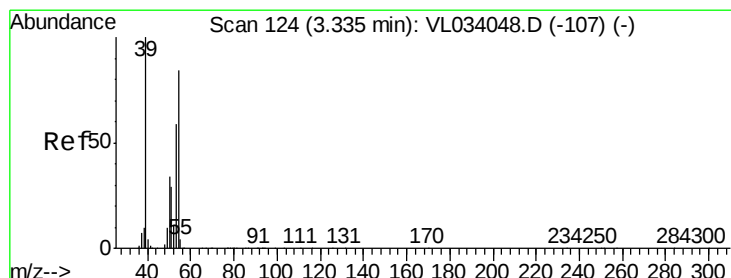
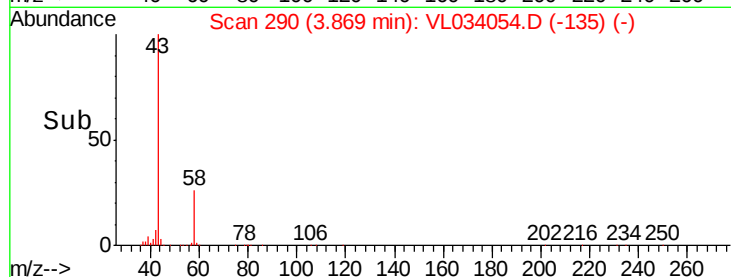
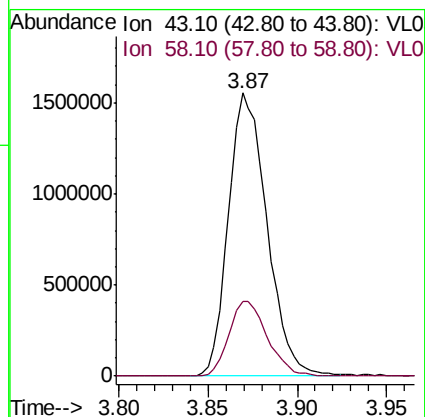
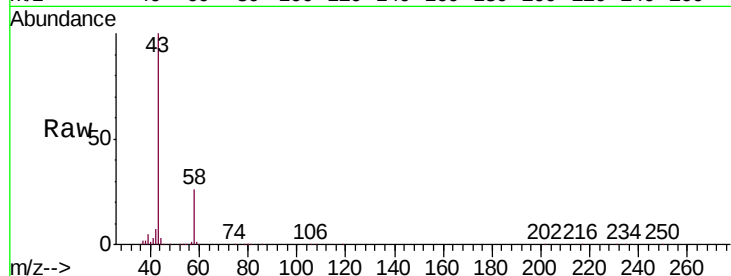
VSTDIC015

Tgt Ion: 43 Resp: 2324412

Ion Ratio Lower Upper

43 100

58 26.6 21.6 32.4



#16

1,3-Butadiene

Concen: 11.566 ppbv

RT: 3.34 min Scan# 124

Delta R.T. -0.00 min

Lab File: VL034054.D

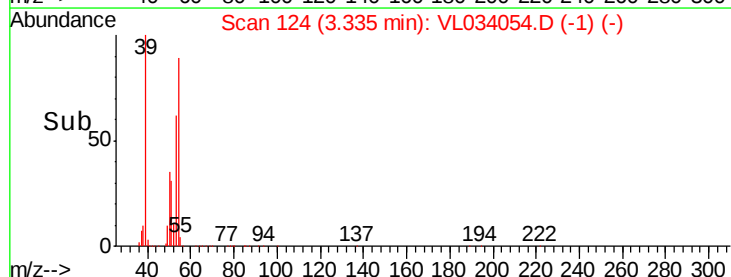
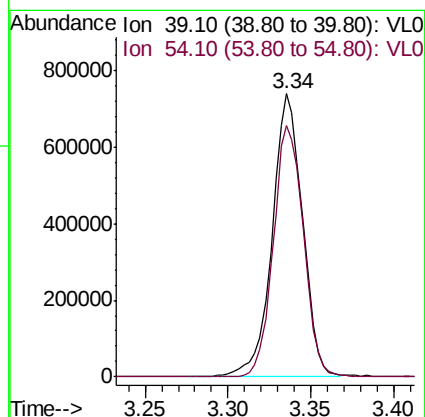
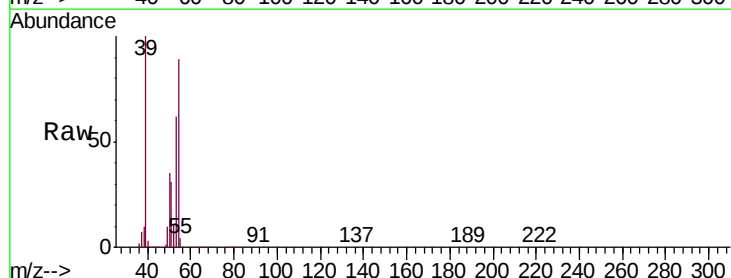
Acq: 30 Jul 2019 6:00

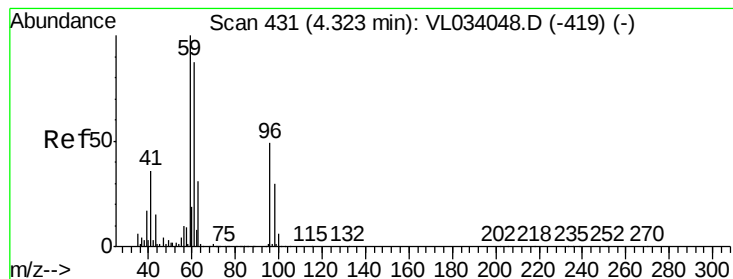
Tgt Ion: 39 Resp: 946249

Ion Ratio Lower Upper

39 100

54 88.4 68.9 103.3





#17

tert-Butyl alcohol

Concen: 11.177 ppbv

RT: 4.33 min Scan# 432

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

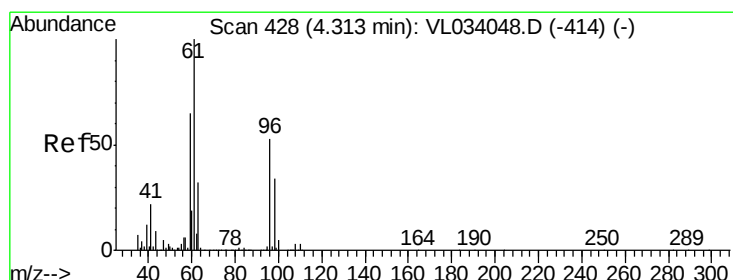
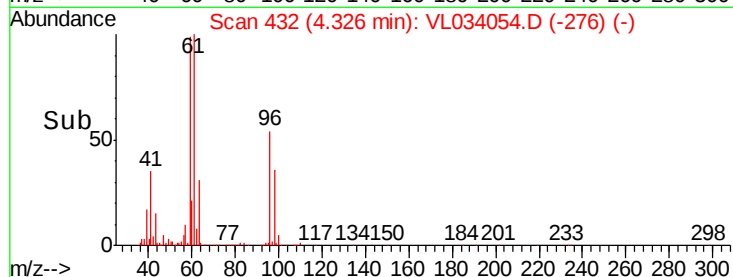
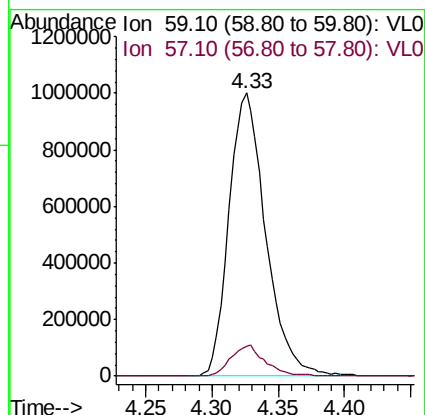
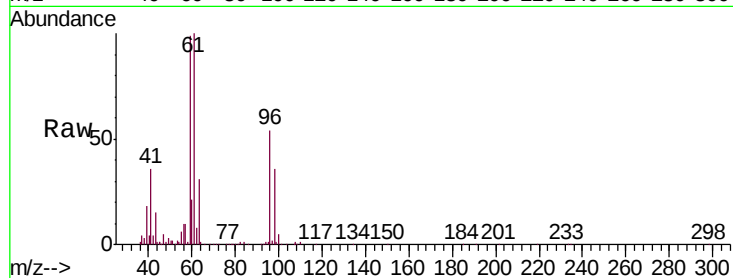
VSTDIC015

Tgt Ion: 59 Resp: 1925369

Ion Ratio Lower Upper

59 100

57 10.5 8.2 12.4



#18

1,1-Dichloroethene

Concen: 12.017 ppbv

RT: 4.32 min Scan# 429

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

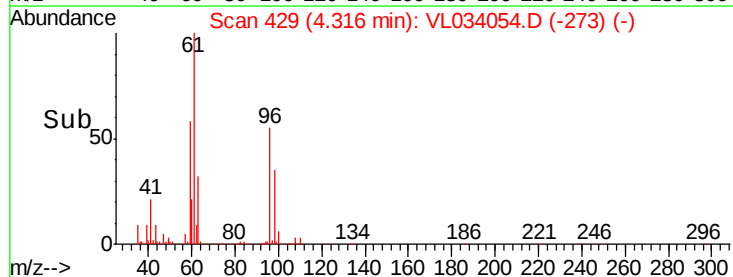
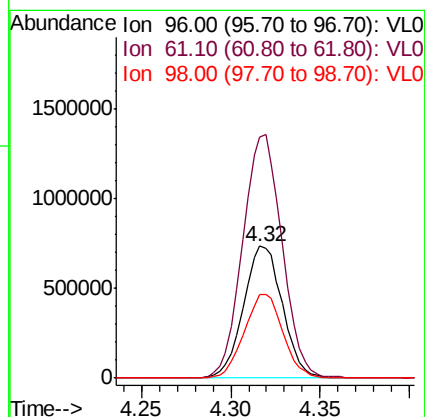
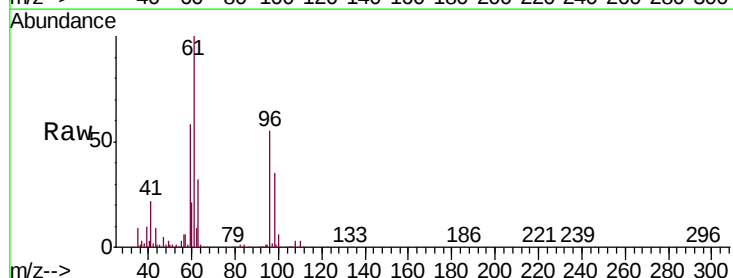
Tgt Ion: 96 Resp: 1122803

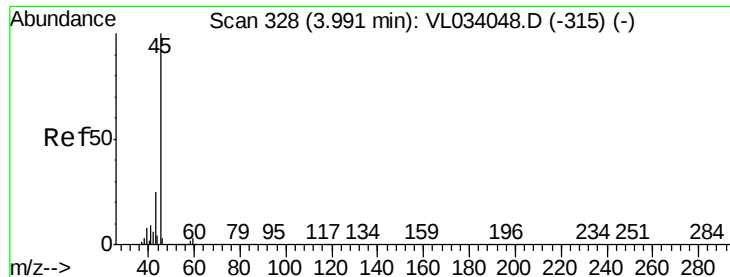
Ion Ratio Lower Upper

96 100

61 182.9 151.5 227.3

98 63.3 52.2 78.2





#19

Isopropyl Alcohol

Concen: 9.600 ppbv

RT: 3.99 min Scan# 329

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

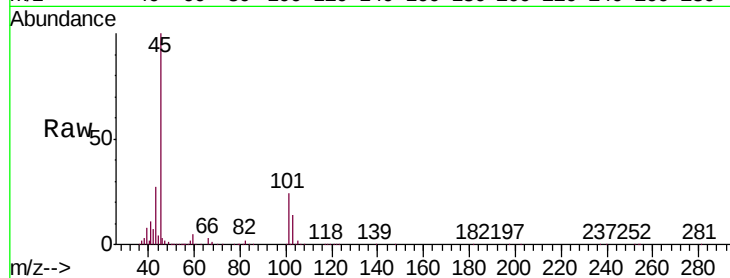
VSTDIC015

Tgt Ion: 45 Resp: 1459377

Ion Ratio Lower Upper

45 100

58 1.8 1.8 2.6



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.99

800000

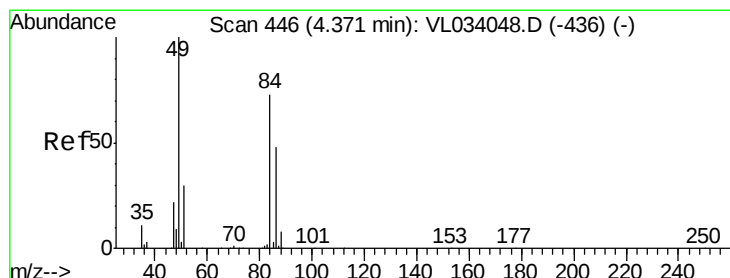
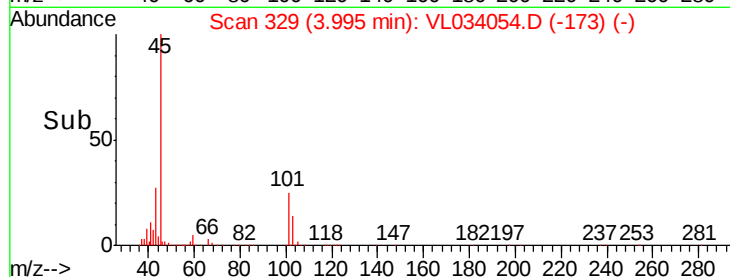
600000

400000

200000

0

Time-->



#20

Methylene Chloride

Concen: 10.391 ppbv

RT: 4.37 min Scan# 447

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Tgt Ion: 84 Resp: 967945

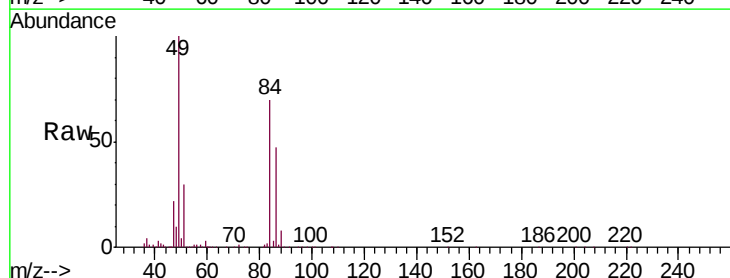
Ion Ratio Lower Upper

84 100

49 142.2 109.6 164.4

51 41.8 33.4 50.2

86 67.2 52.6 78.8



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

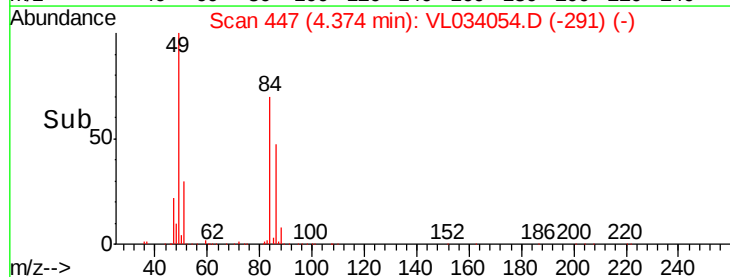
Ion 86.00 (85.70 to 86.70): VL0

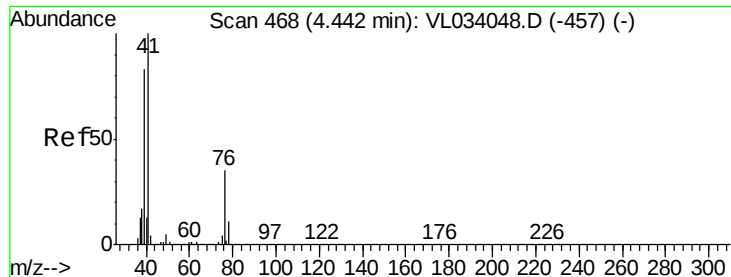
1000000

500000

0

Time-->





#21

Allyl Chloride

Concen: 12.693 ppbv

RT: 4.44 min Scan# 469

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

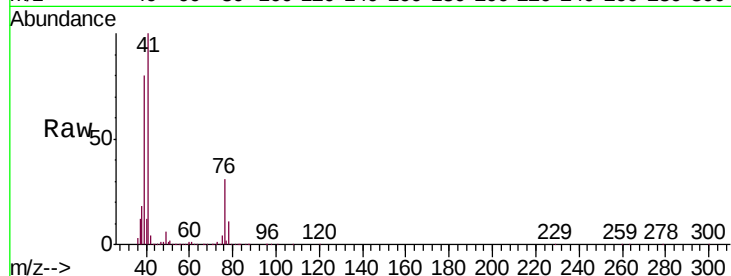
Tgt Ion: 41 Resp: 1693901

Ion Ratio Lower Upper

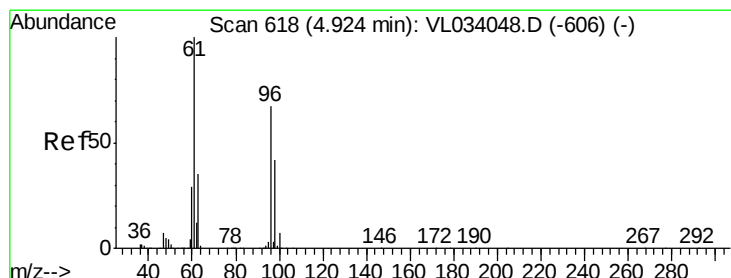
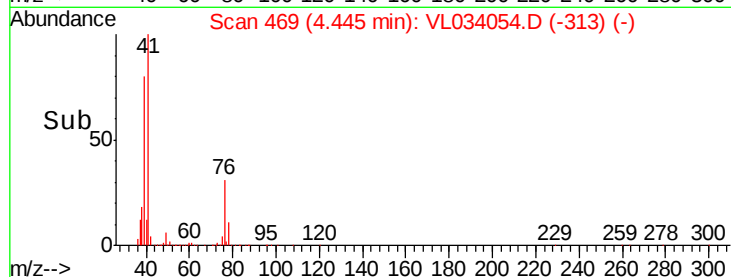
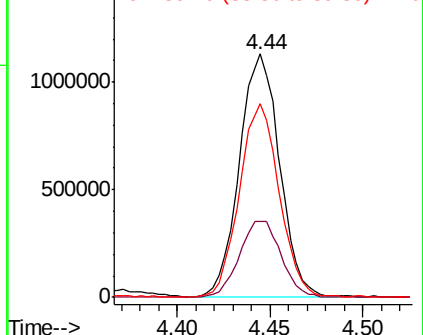
41 100

76 32.7 26.1 39.1

39 79.3 65.0 97.6



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



#22

trans-1,2-Dichloroethene

Concen: 12.806 ppbv

RT: 4.92 min Scan# 618

Delta R.T. -0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

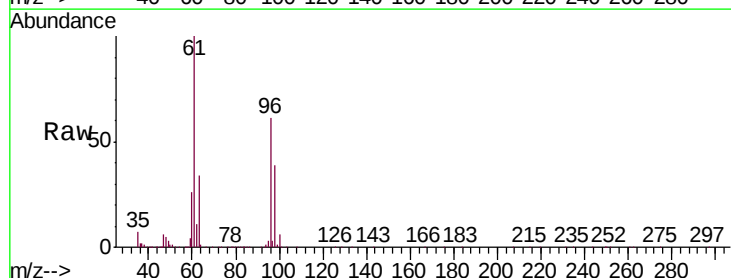
Tgt Ion: 96 Resp: 1139782

Ion Ratio Lower Upper

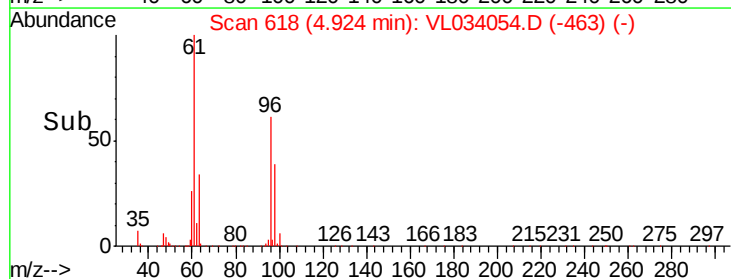
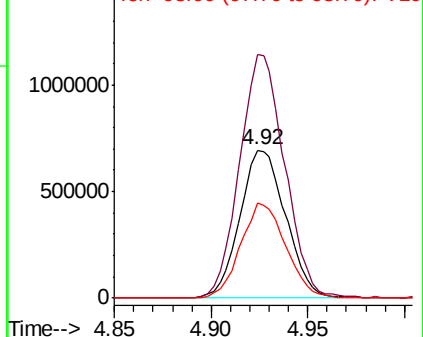
96 100

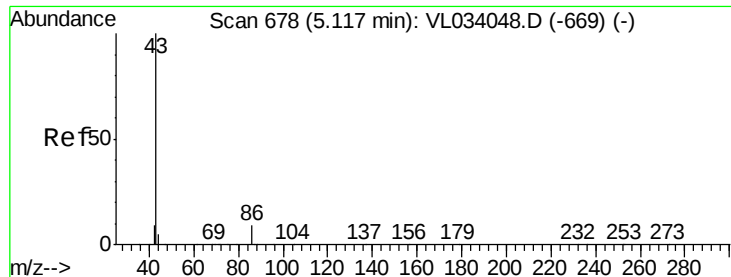
61 164.8 118.6 177.8

98 64.1 49.7 74.5



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





#23

Vinyl Acetate

Concen: 14.091 ppbv

RT: 5.12 min Scan# 679

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 2996802

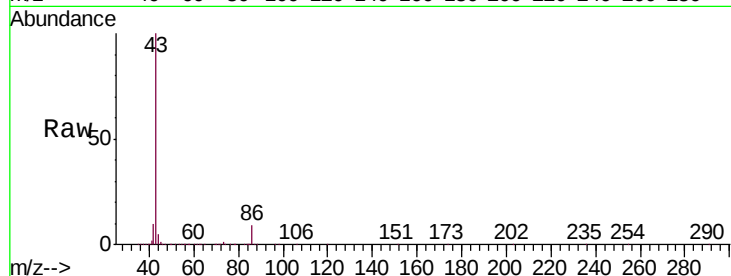
Ion Ratio Lower Upper

43 100

86 8.6 6.5 9.7

42 9.9 8.3 12.5

44 5.3 4.0 6.0

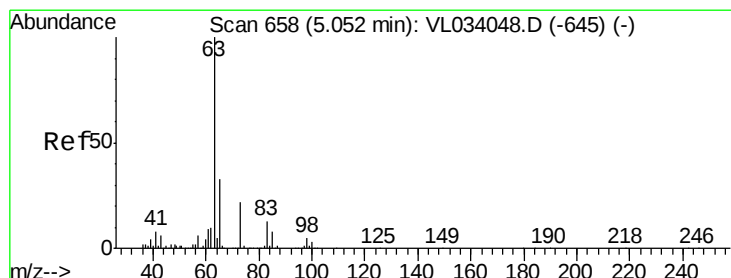
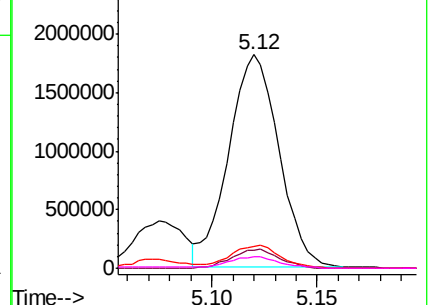
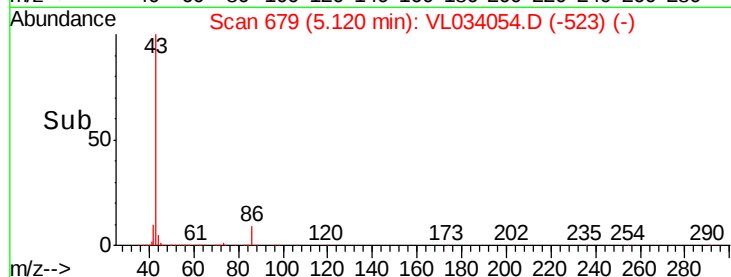


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 12.592 ppbv

RT: 5.06 min Scan# 659

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

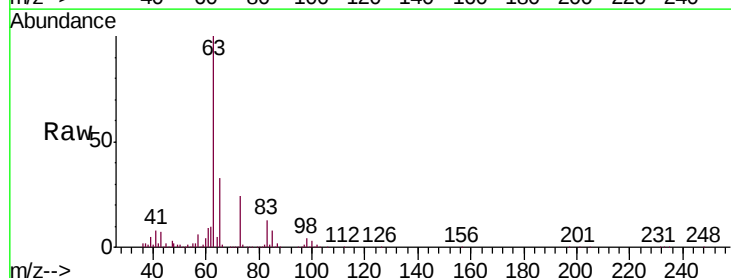
Tgt Ion: 63 Resp: 2398025

Ion Ratio Lower Upper

63 100

98 4.4 2.4 7.2

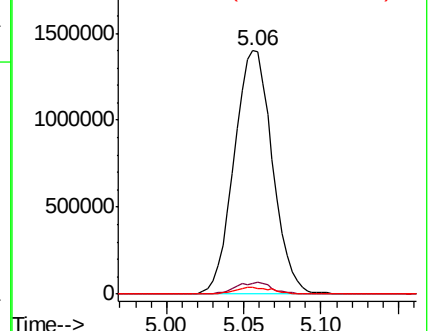
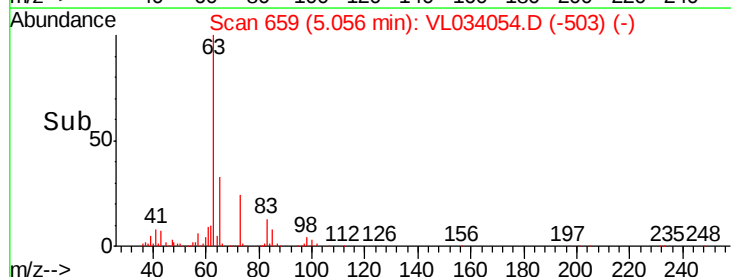
100 3.0 1.3 3.9

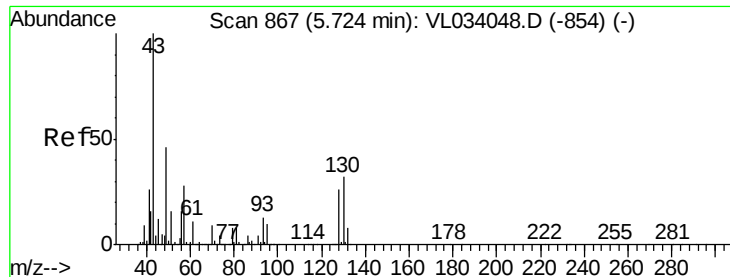


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



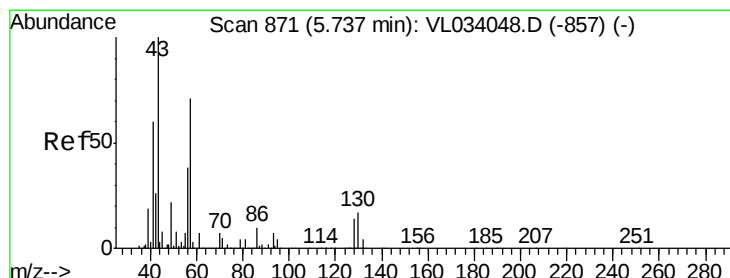
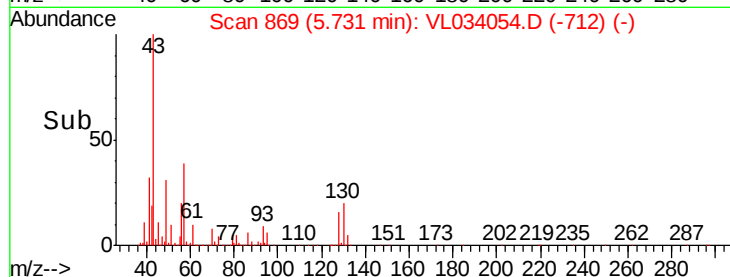
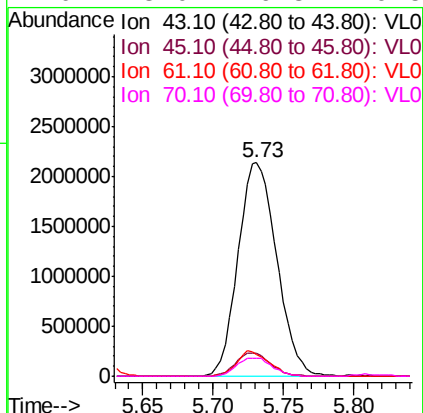
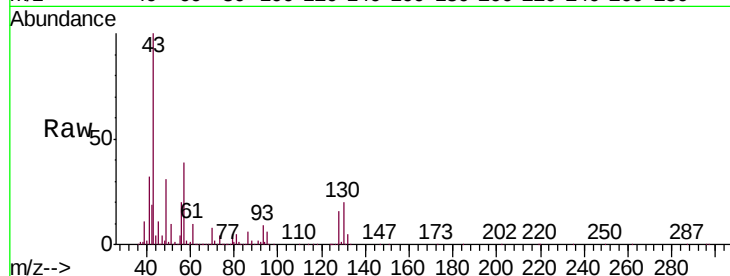


#25
Ethyl Acetate
Concen: 13.982 ppbv
RT: 5.73 min Scan# 869
Delta R.T. 0.01 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 4105447

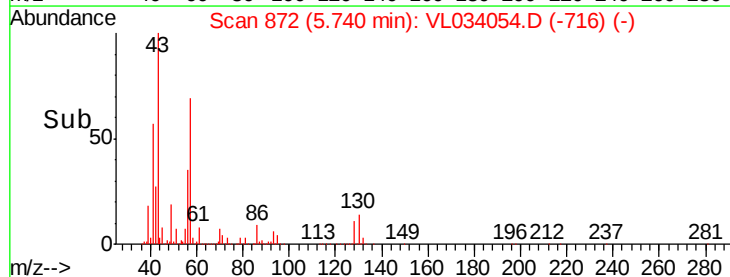
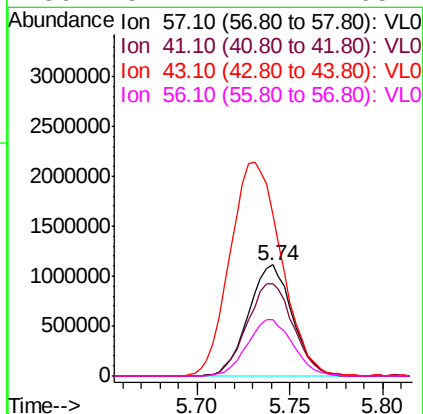
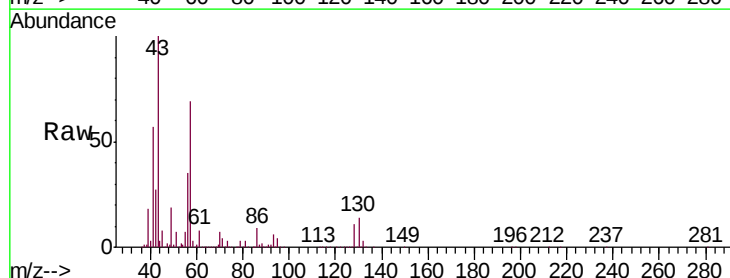
Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.1	12.1
61	9.9	8.1	12.1
70	8.0	6.3	9.5

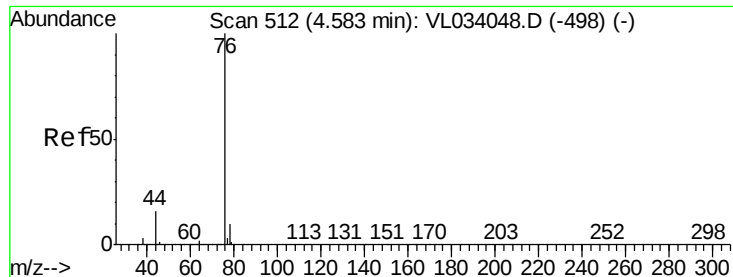


#26
Hexane
Concen: 13.724 ppbv
RT: 5.74 min Scan# 872
Delta R.T. 0.00 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Tgt Ion: 57 Resp: 1846153

Ion	Ratio	Lower	Upper
57	100		
41	87.7	69.0	103.6
43	223.5	176.6	264.8
56	52.4	42.2	63.4





#27

Carbon Disulfide

Concen: 12.958 ppbv

RT: 4.58 min Scan# 512

Delta R.T. -0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

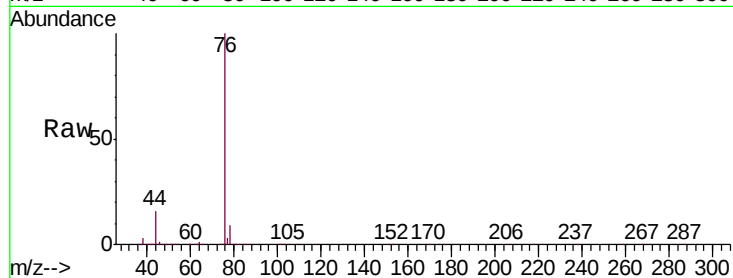
Tgt Ion: 76 Resp: 2935336

Ion Ratio Lower Upper

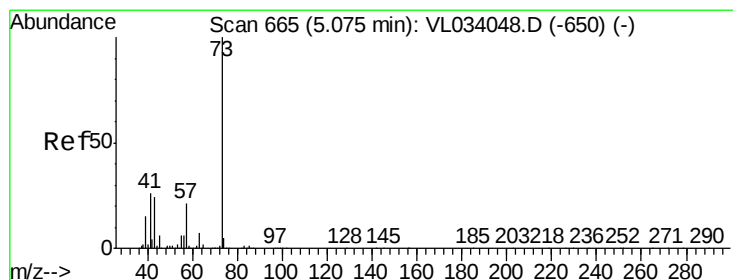
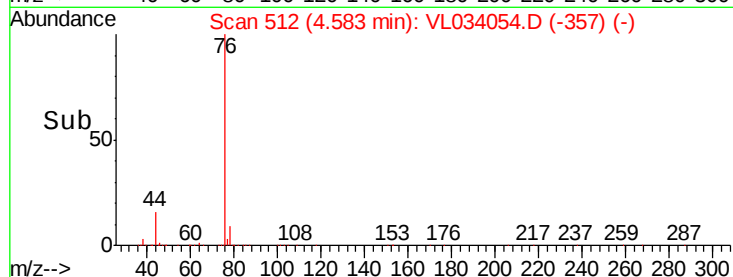
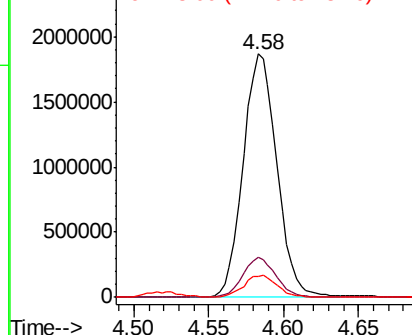
76 100

44 15.8 13.0 19.4

78 9.2 7.7 11.5



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



#28

Methyl tert-Butyl Ether

Concen: 13.051 ppbv

RT: 5.07 min Scan# 665

Delta R.T. -0.00 min

Lab File: VL034054.D

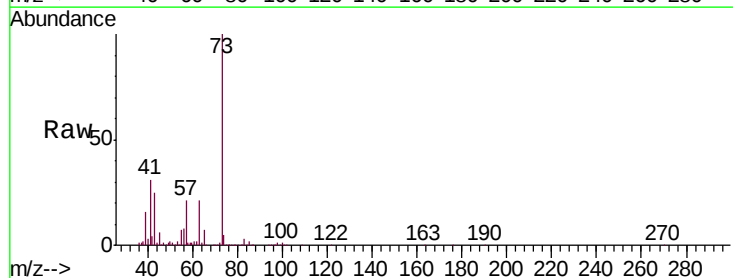
Acq: 30 Jul 2019 6:00

Tgt Ion: 73 Resp: 2962770

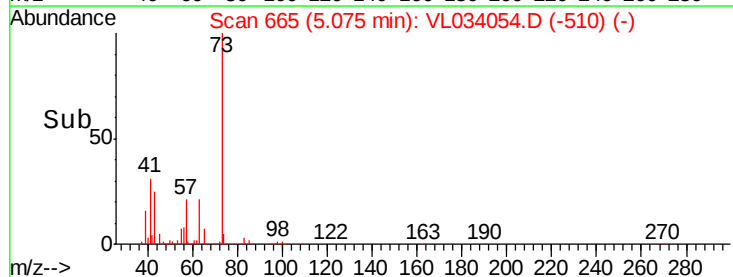
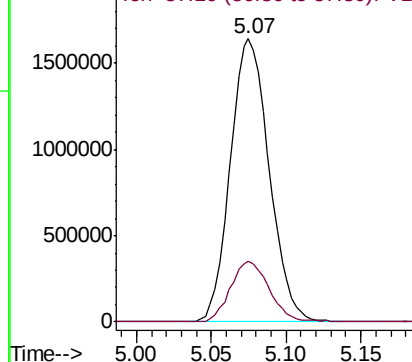
Ion Ratio Lower Upper

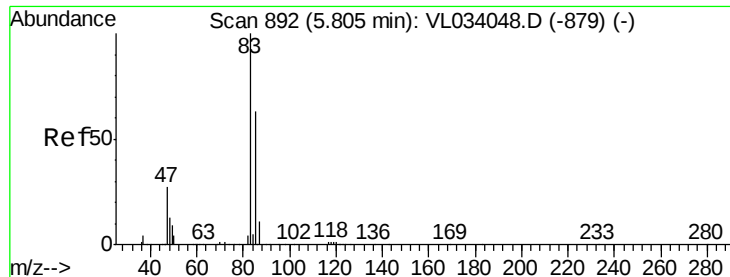
73 100

57 21.5 17.2 25.8



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 12.657 ppbv

RT: 5.81 min Scan# 894

Delta R.T. 0.01 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

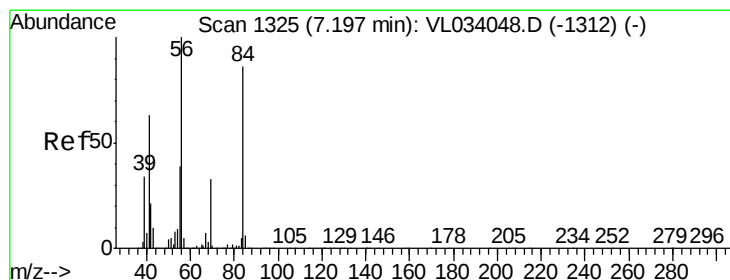
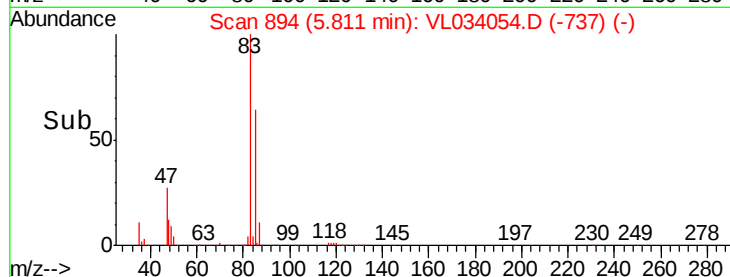
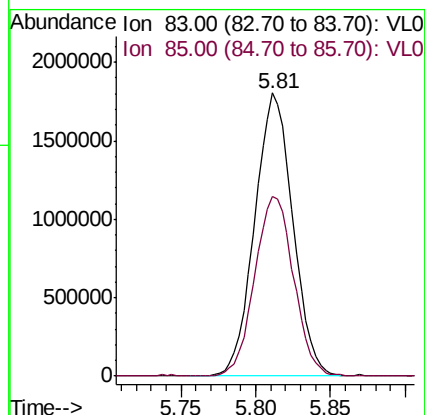
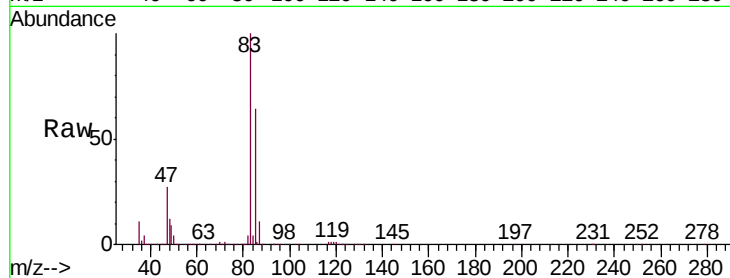
VSTDIC015

Tgt Ion: 83 Resp: 3194438

Ion Ratio Lower Upper

83 100

85 63.5 50.2 75.4



#30

Cyclohexane

Concen: 19.321 ppbv

RT: 7.20 min Scan# 1327

Delta R.T. 0.01 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

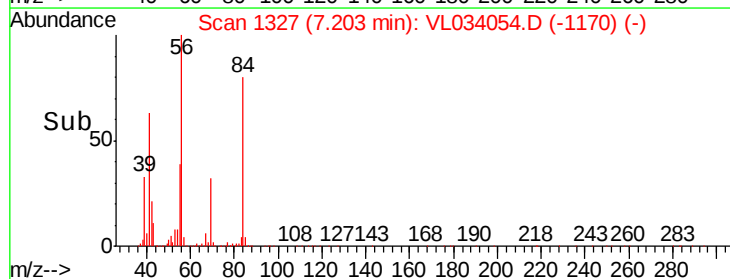
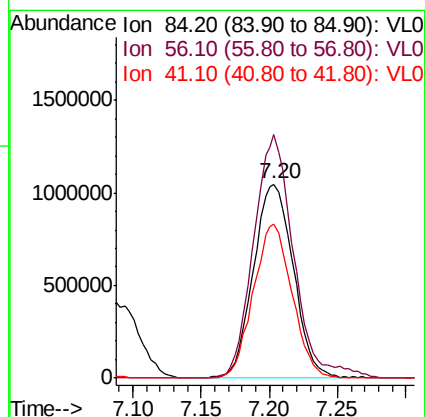
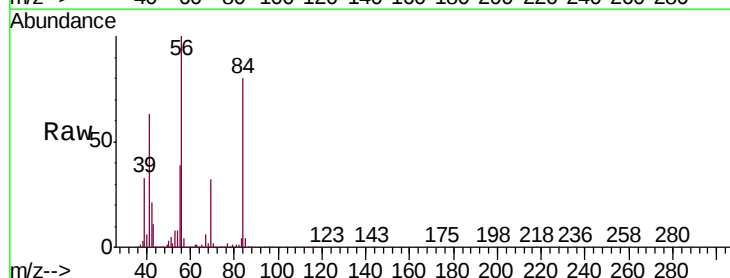
Tgt Ion: 84 Resp: 2128404

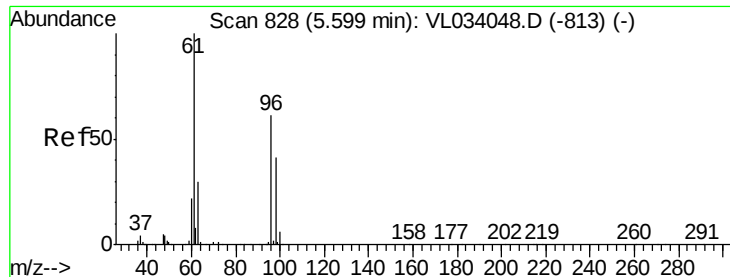
Ion Ratio Lower Upper

84 100

56 125.9 101.7 152.5

41 76.7 59.4 89.0





#31

cis-1,2-Dichloroethene

Concen: 14.737 ppbv

RT: 5.61 min Scan# 830

Delta R.T. 0.01 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

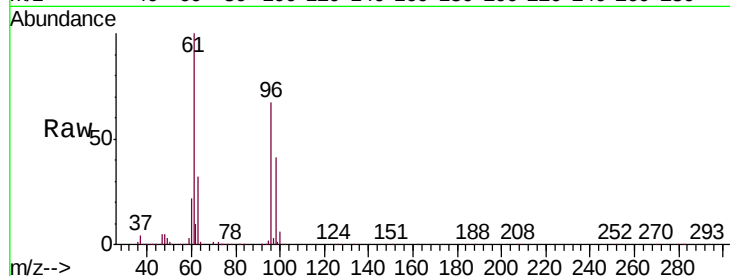
Tgt Ion: 61 Resp: 1907624

Ion Ratio Lower Upper

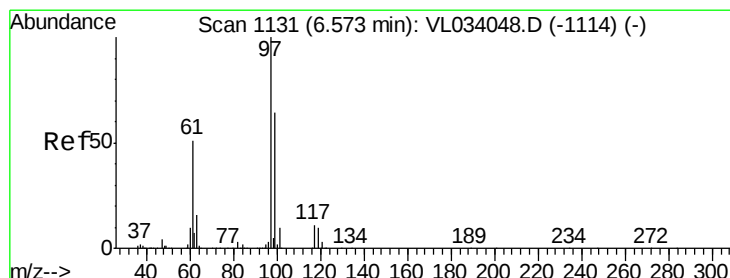
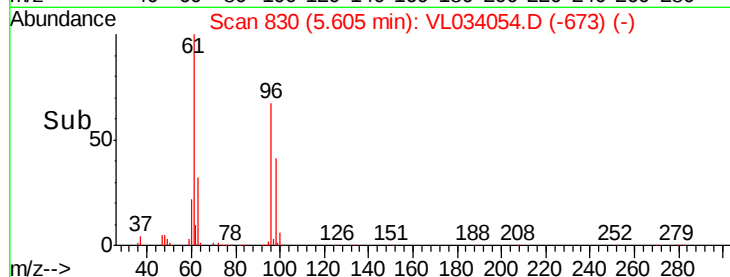
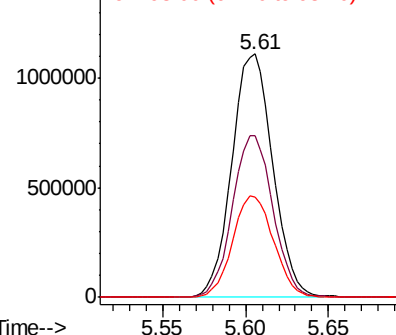
61 100

96 66.5 49.1 73.7

98 41.3 32.5 48.7



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



#32

1,1,1-Trichloroethane

Concen: 12.133 ppbv

RT: 6.58 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

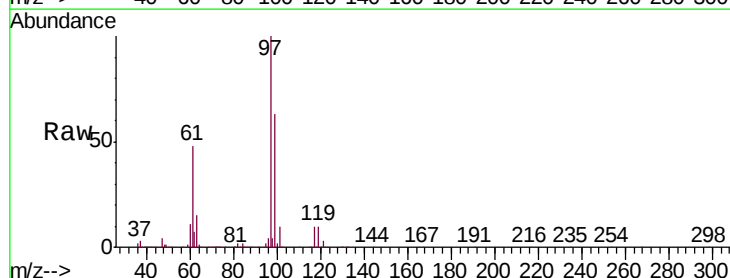
Tgt Ion: 97 Resp: 3102796

Ion Ratio Lower Upper

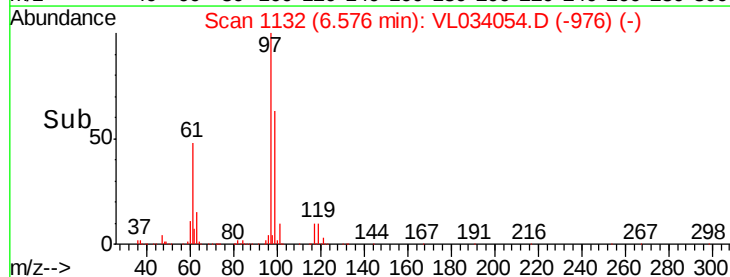
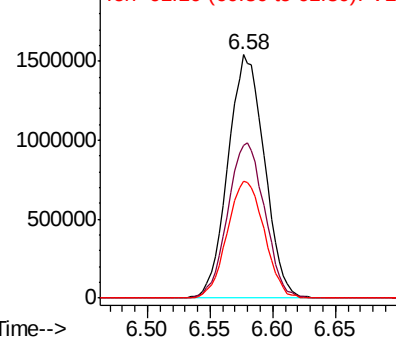
97 100

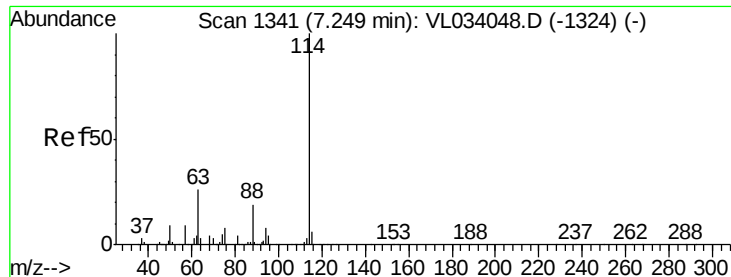
99 64.5 51.0 76.6

61 48.8 39.5 59.3



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0

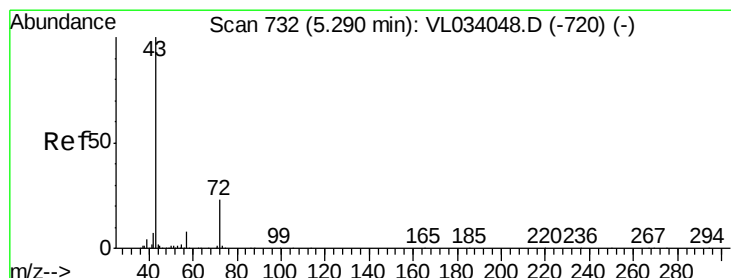
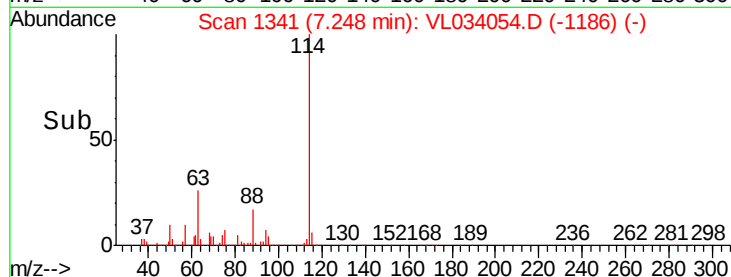
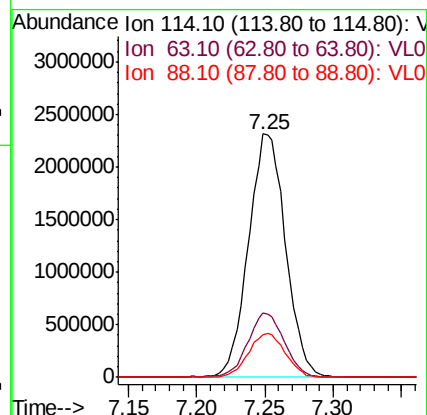
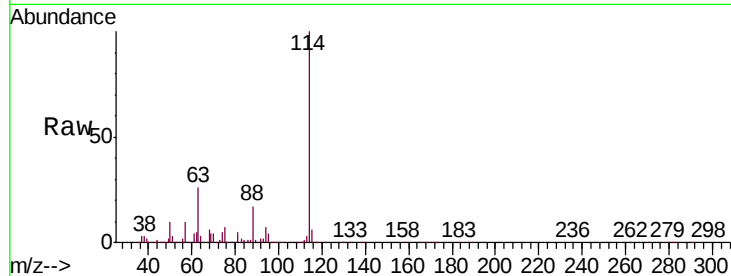




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1341
 Delta R.T. -0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

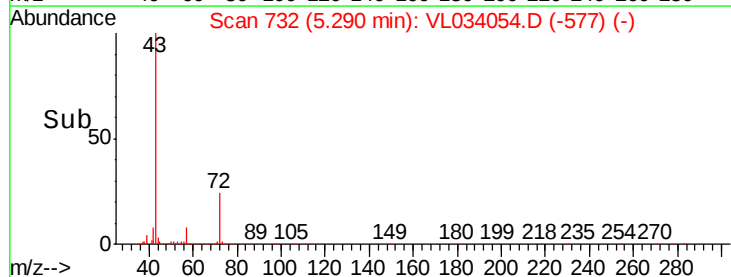
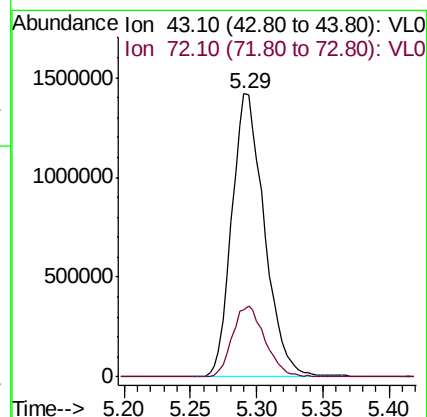
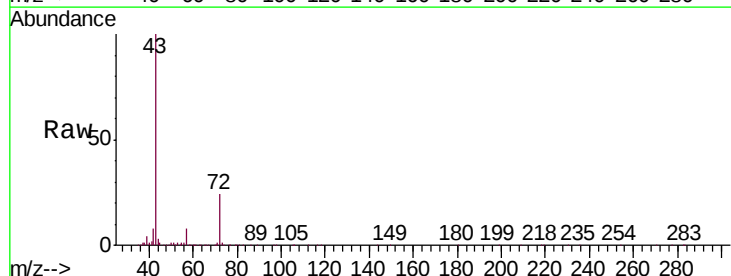
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

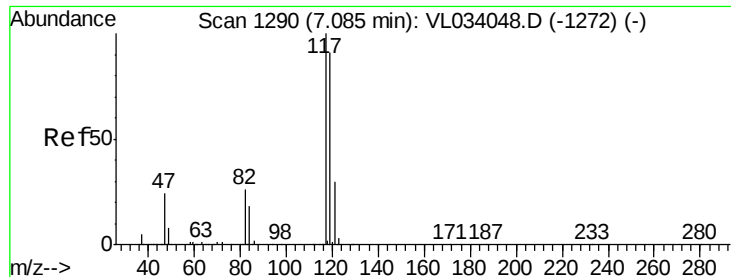
Tgt Ion: 114 Resp: 4366231
 Ion Ratio Lower Upper
 114 100
 63 26.5 21.0 31.6
 88 18.0 14.7 22.1



#34
 2-Butanone
 Concen: 11.172 ppbv
 RT: 5.29 min Scan# 732
 Delta R.T. -0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Tgt Ion: 43 Resp: 2417908
 Ion Ratio Lower Upper
 43 100
 72 25.3 20.2 30.4





#35

Carbon Tetrachloride

Concen: 14.146 ppbv

RT: 7.09 min Scan# 1292

Delta R.T. 0.01 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

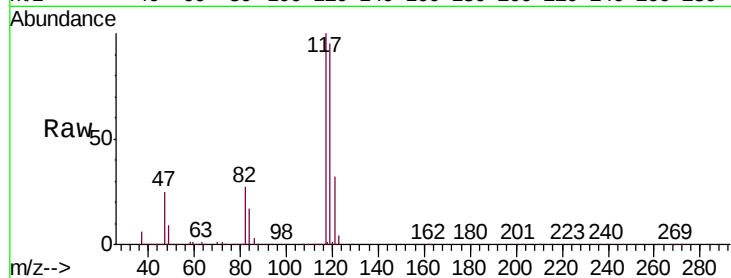
Tgt Ion:117 Resp: 4664972

Ion Ratio Lower Upper

117 100

119 95.0 73.2 109.8

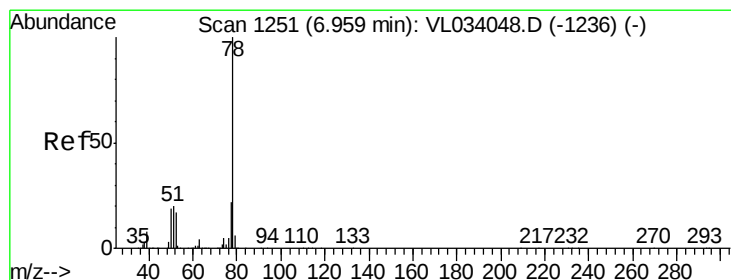
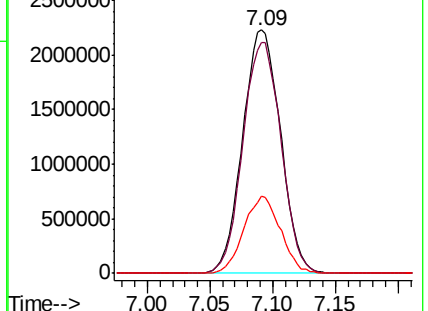
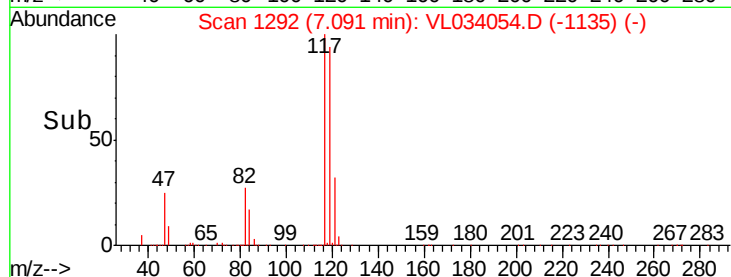
121 31.9 24.0 36.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 16.310 ppbv

RT: 6.97 min Scan# 1253

Delta R.T. 0.01 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

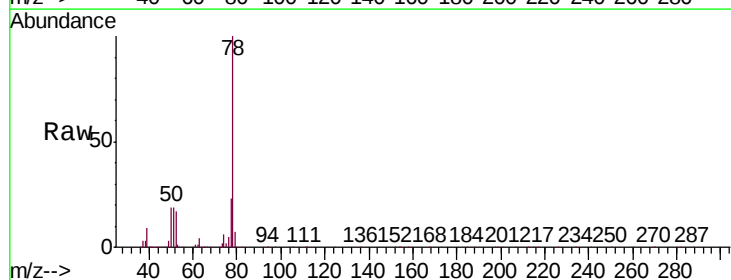
Tgt Ion: 78 Resp: 5167421

Ion Ratio Lower Upper

78 100

77 22.6 17.9 26.9

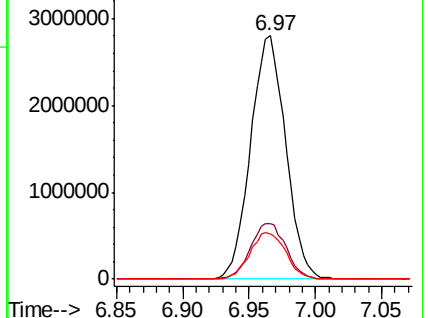
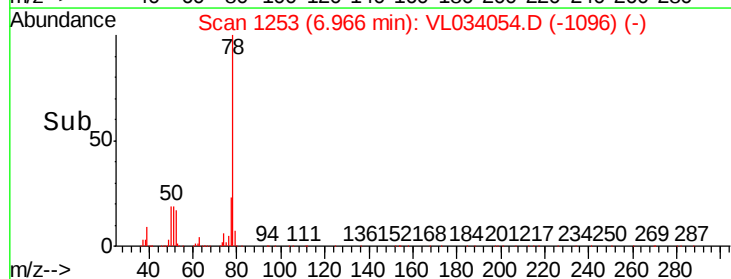
50 18.7 14.9 22.3

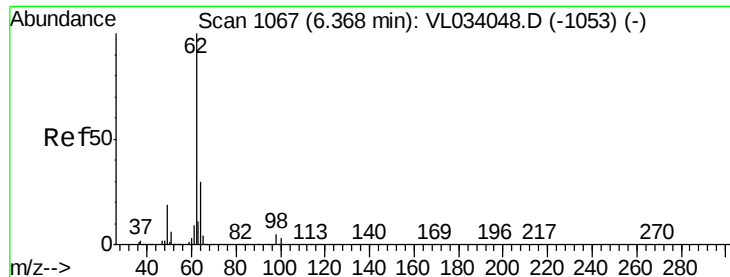


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

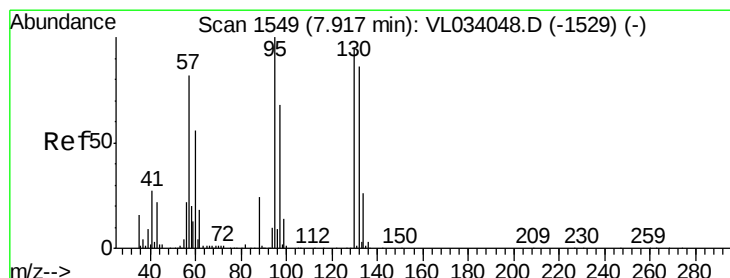
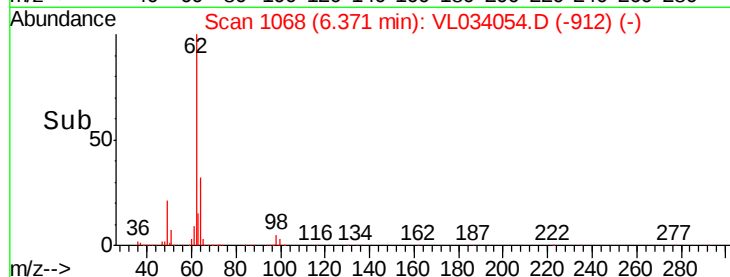
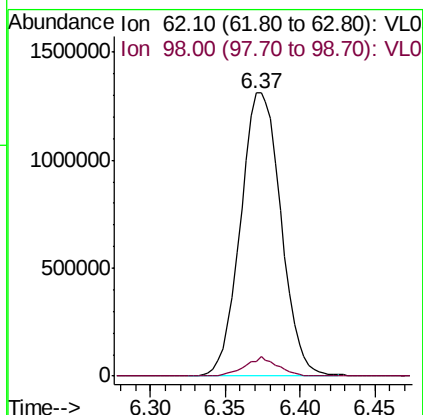
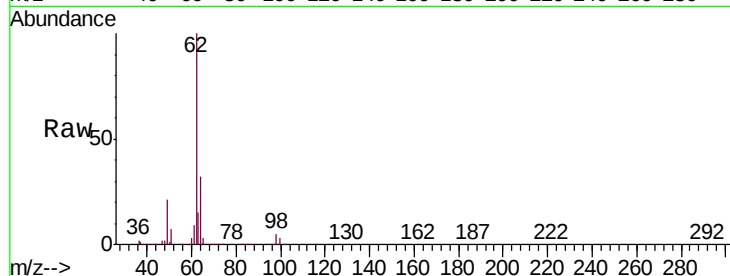




#37
 1,2-Dichloroethane
 Concen: 10.472 ppbv
 RT: 6.37 min Scan# 1068
 Delta R.T. 0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

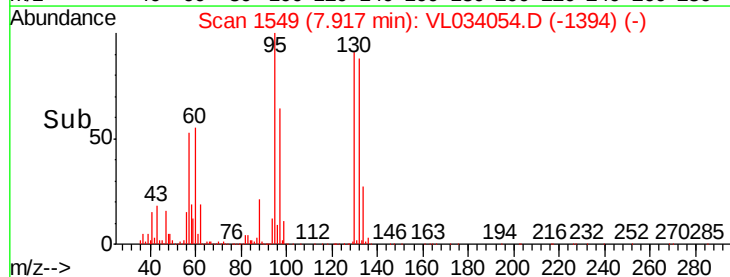
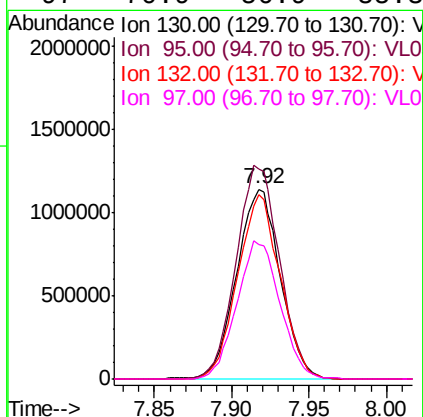
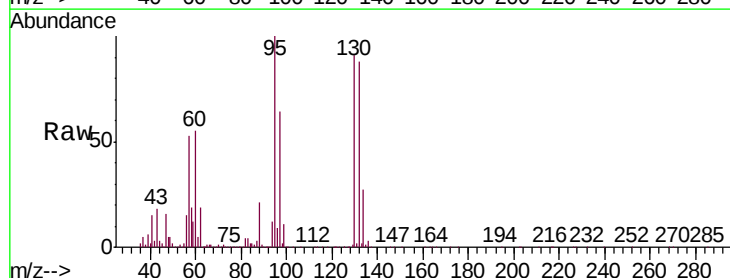
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

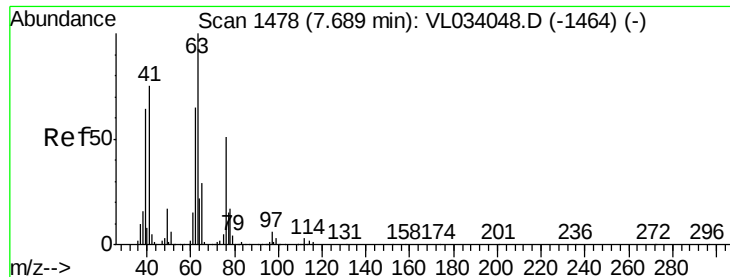
Tgt Ion: 62 Resp: 2471171
 Ion Ratio Lower Upper
 62 100
 98 5.6 4.2 6.2



#38
 Trichloroethene
 Concen: 15.328 ppbv
 RT: 7.92 min Scan# 1549
 Delta R.T. -0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Tgt Ion: 130 Resp: 2211288
 Ion Ratio Lower Upper
 130 100
 95 110.2 84.1 126.1
 132 96.8 72.7 109.1
 97 70.9 56.9 85.3





#39

1,2-Dichloropropane

Concen: 15.738 ppbv

RT: 7.69 min Scan# 1479

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

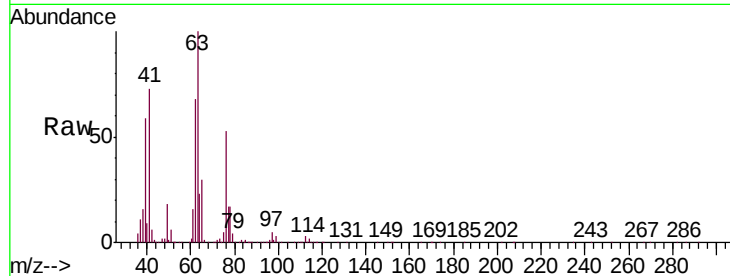
Tgt Ion: 63 Resp: 1884376

Ion Ratio Lower Upper

63 100

41 73.4 59.8 89.8

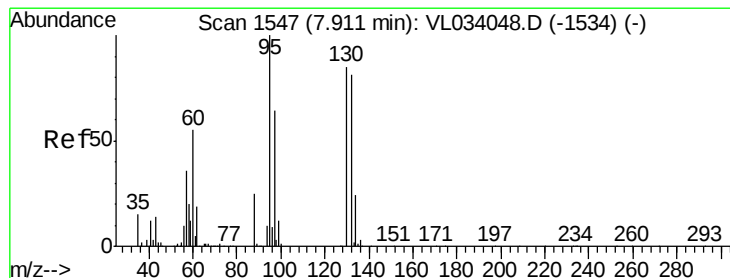
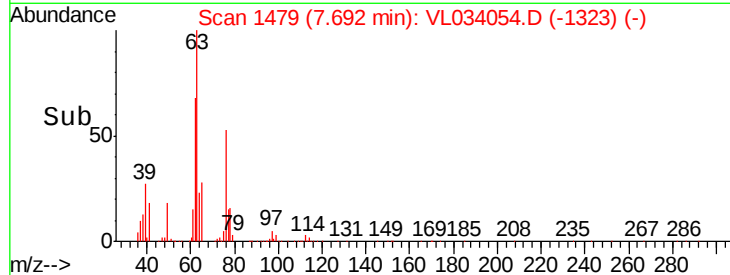
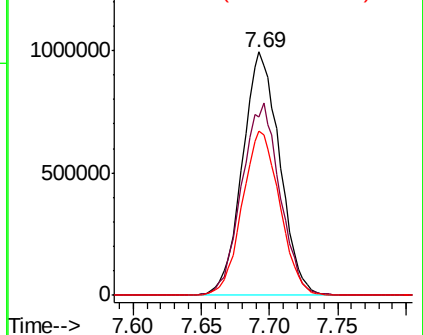
62 67.5 52.2 78.2



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



#40

1,4-Dioxane

Concen: 13.258 ppbv

RT: 7.91 min Scan# 1547

Delta R.T. -0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Tgt Ion: 88 Resp: 723866

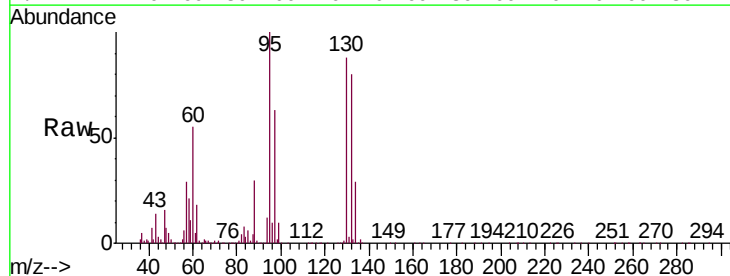
Ion Ratio Lower Upper

88 100

58 130.1 99.6 149.4

43 0.0 189.2 283.8#

57 0.0 868.4 1302.6#

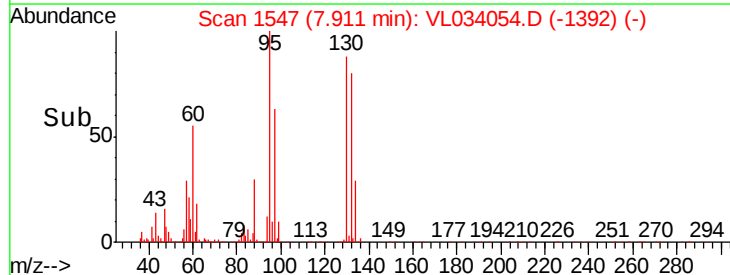
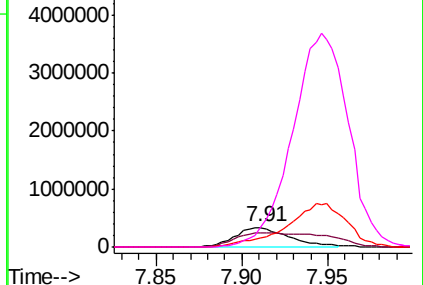


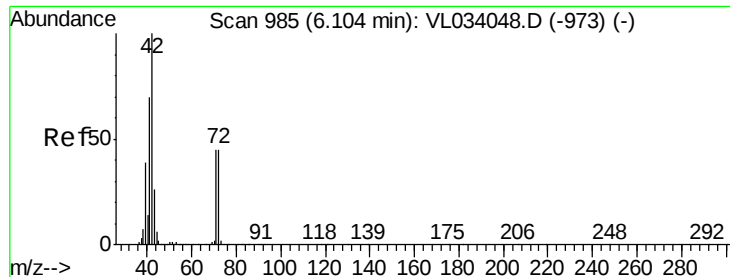
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

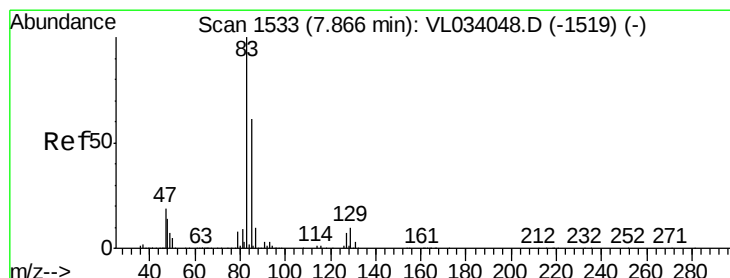
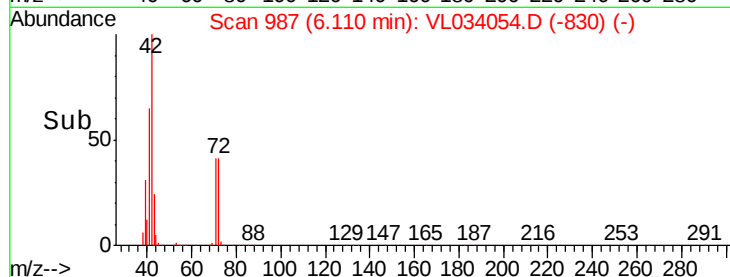
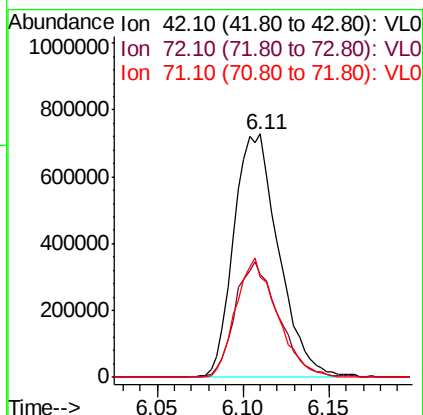
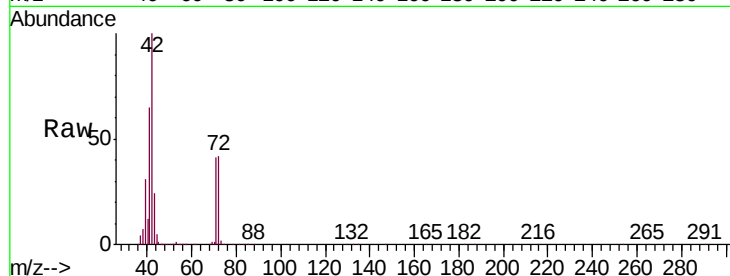




#41
Tetrahydrofuran
Concen: 12.571 ppbv
RT: 6.11 min Scan# 987
Delta R.T. 0.01 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

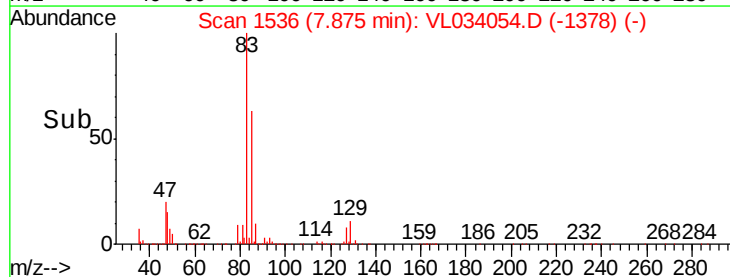
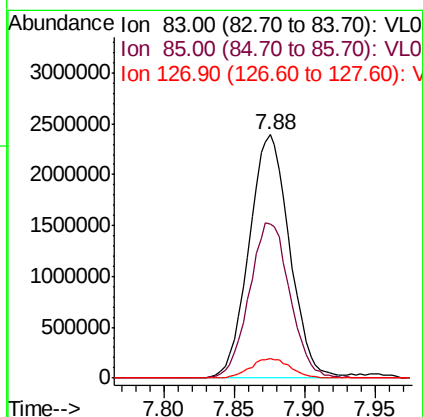
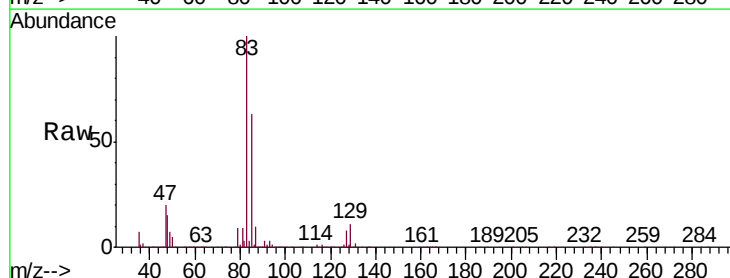
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

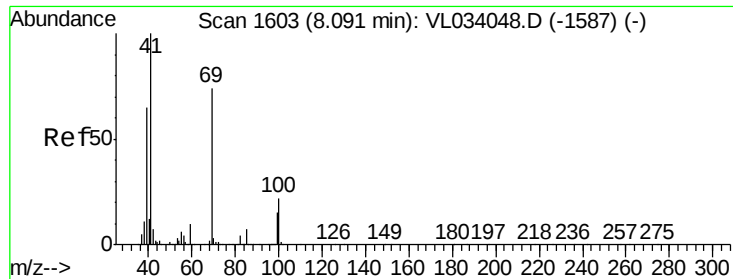
Tgt Ion: 42 Resp: 1320844
Ion Ratio Lower Upper
42 100
72 46.5 36.9 55.3
71 45.7 36.6 54.8



#42
Bromodichloromethane
Concen: 15.196 ppbv
RT: 7.88 min Scan# 1536
Delta R.T. 0.01 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Tgt Ion: 83 Resp: 4795980
Ion Ratio Lower Upper
83 100
85 63.5 48.6 73.0
127 8.0 5.5 8.3

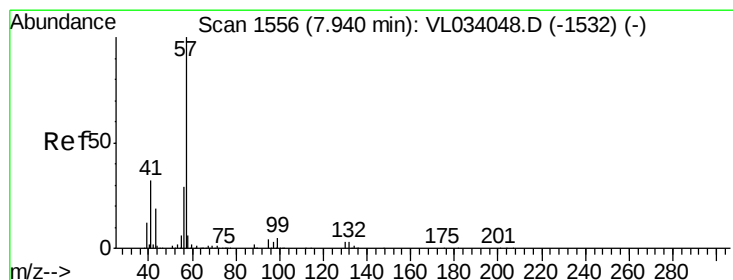
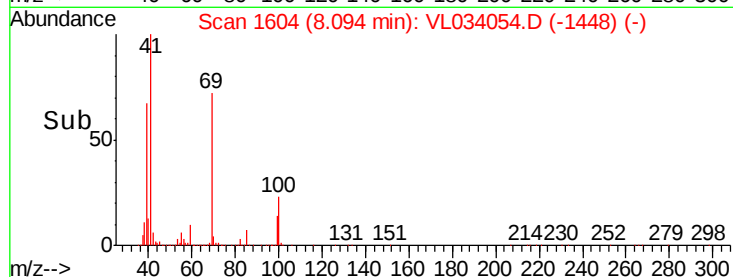
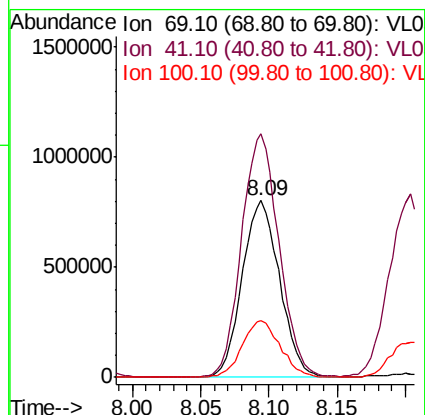
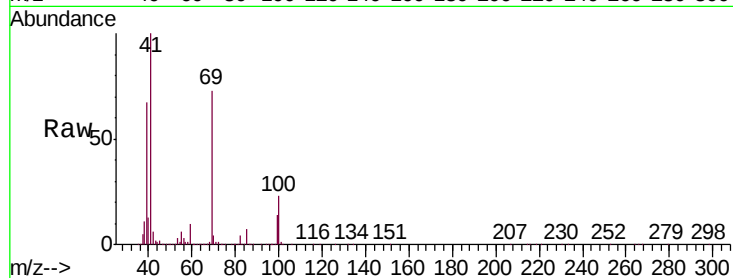




#43
Methyl Methacrylate
Concen: 12.777 ppbv
RT: 8.09 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

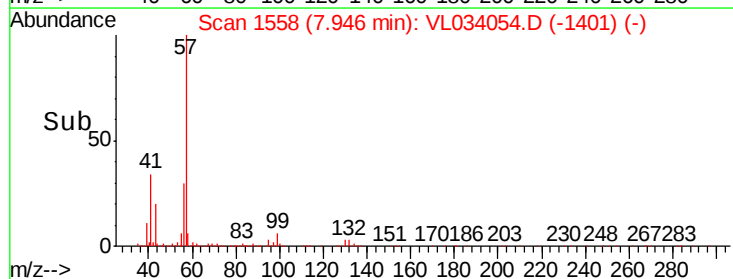
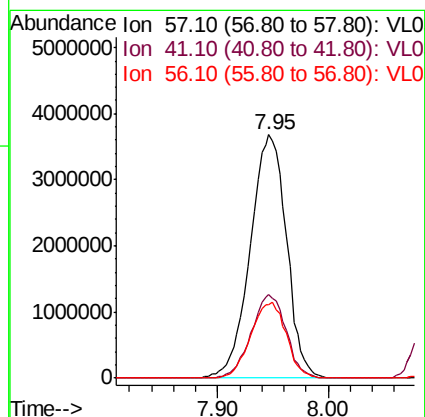
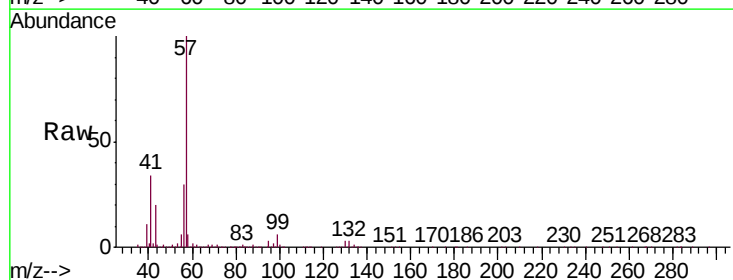
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

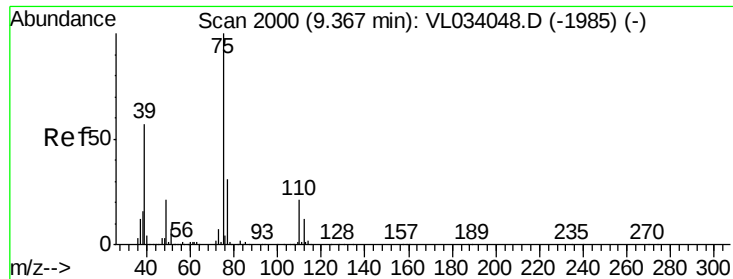
Tgt Ion: 69 Resp: 1532132
Ion Ratio Lower Upper
69 100
41 137.9 112.8 169.2
100 32.5 26.1 39.1



#44
2,2,4-Trimethylpentane
Concen: 15.253 ppbv
RT: 7.95 min Scan# 1558
Delta R.T. 0.01 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Tgt Ion: 57 Resp: 8372138
Ion Ratio Lower Upper
57 100
41 33.1 26.2 39.2
56 30.5 24.2 36.2

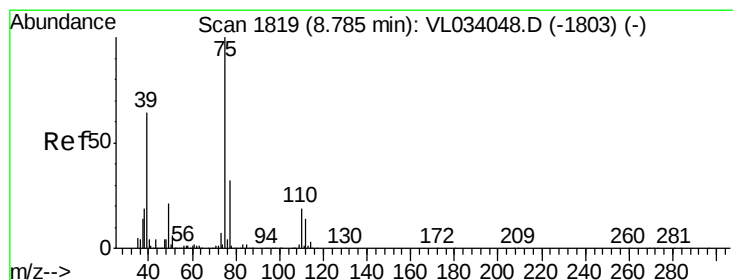
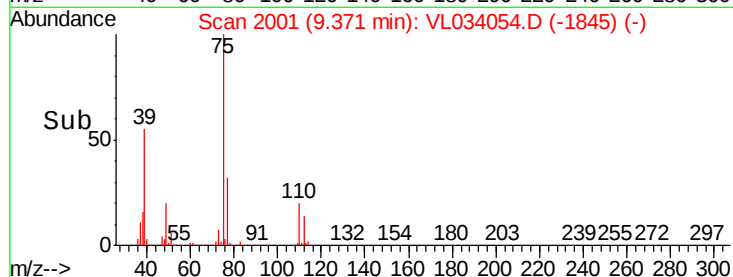
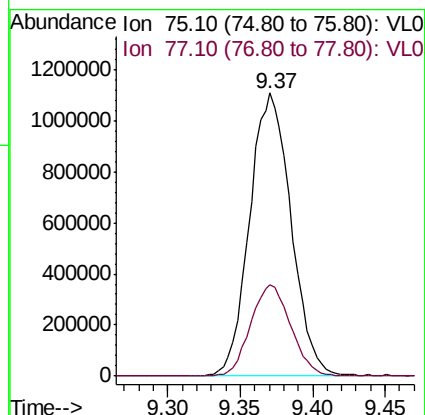
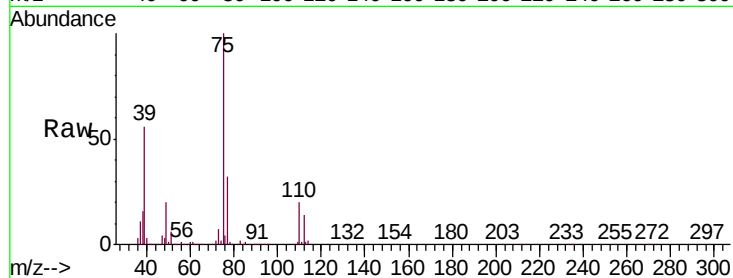




#45
 t-1,3-Dichloropropene
 Concen: 14.185 ppbv
 RT: 9.37 min Scan# 2001
 Delta R.T. 0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

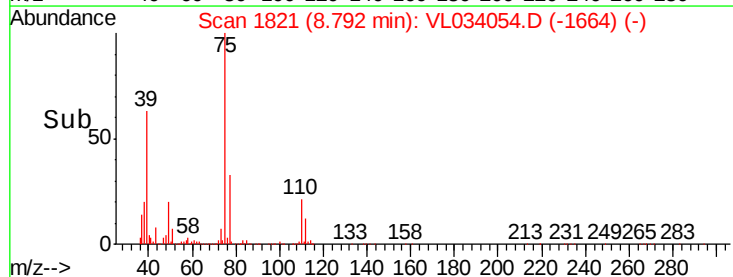
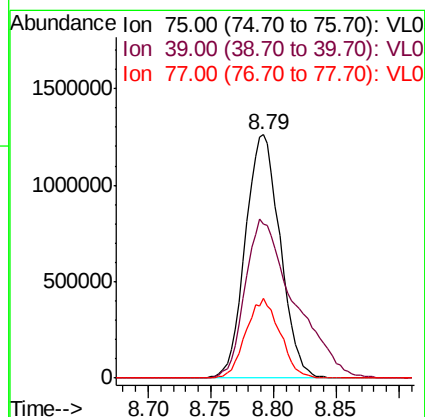
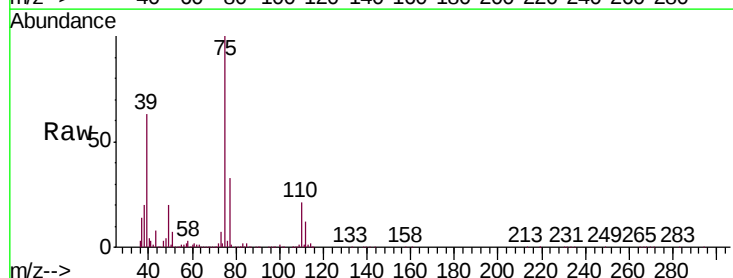
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

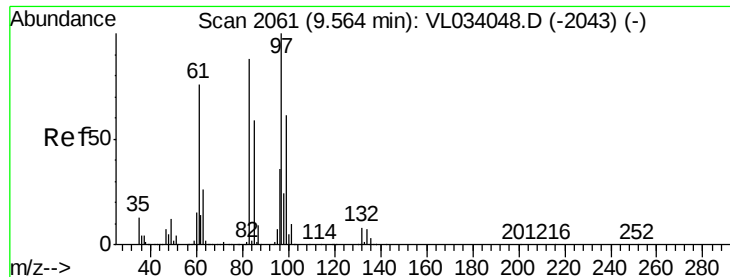
Tgt Ion: 75 Resp: 2200798
 Ion Ratio Lower Upper
 75 100
 77 32.4 24.6 37.0



#46
 cis-1,3-Dichloropropene
 Concen: 13.492 ppbv
 RT: 8.79 min Scan# 1821
 Delta R.T. 0.01 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Tgt Ion: 75 Resp: 2439834
 Ion Ratio Lower Upper
 75 100
 39 63.2 51.4 77.2
 77 32.7 25.8 38.6





#47

1,1,2-Trichloroethane

Concen: 10.944 ppbv

RT: 9.57 min Scan# 2064

Delta R.T. 0.01 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 97 Resp: 1629766

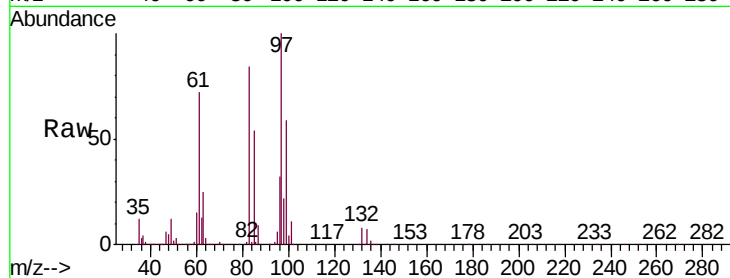
Ion Ratio Lower Upper

97 100

83 83.6 70.6 106.0

85 53.8 47.3 70.9

99 59.4 48.6 72.8

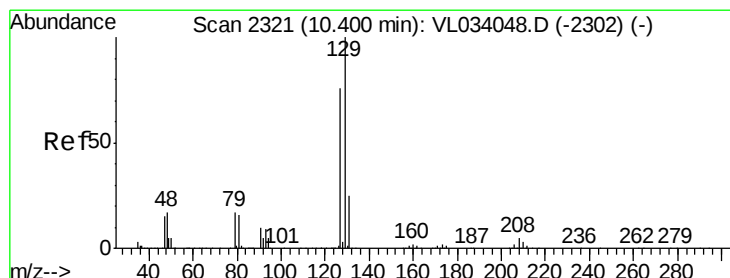
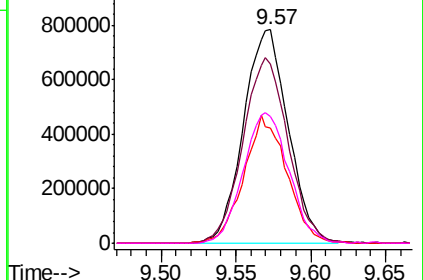
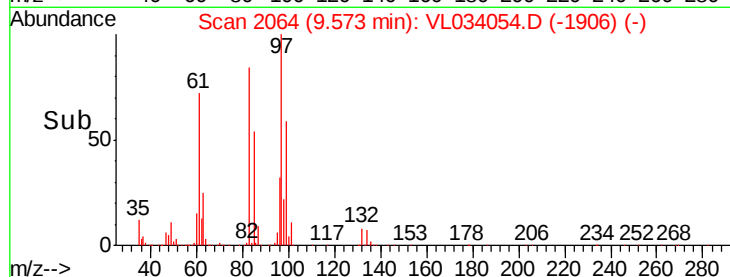


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 10.102 ppbv

RT: 10.40 min Scan# 2322

Delta R.T. 0.00 min

Lab File: VL034054.D

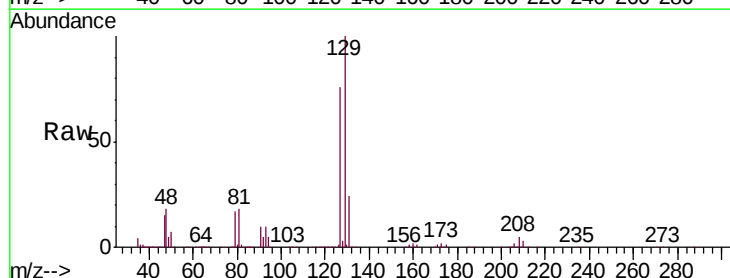
Acq: 30 Jul 2019 6:00

Tgt Ion: 129 Resp: 3028844

Ion Ratio Lower Upper

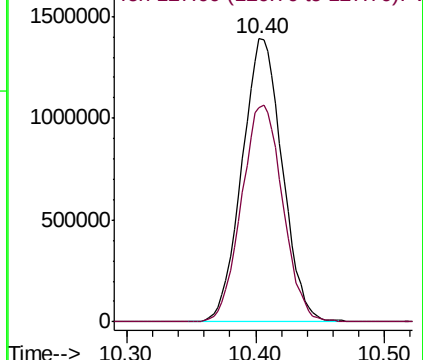
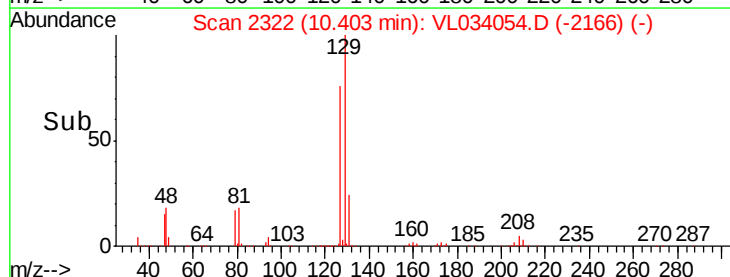
129 100

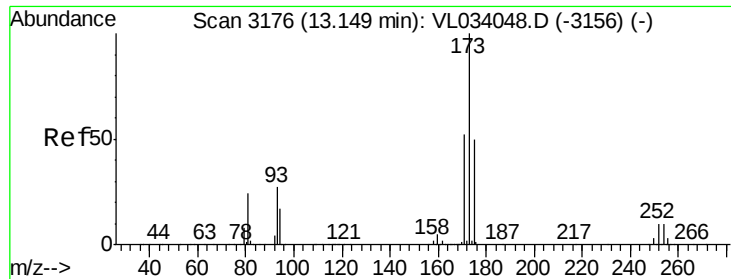
127 78.6 38.6 115.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 11.761 ppbv

RT: 13.15 min Scan# 3177

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

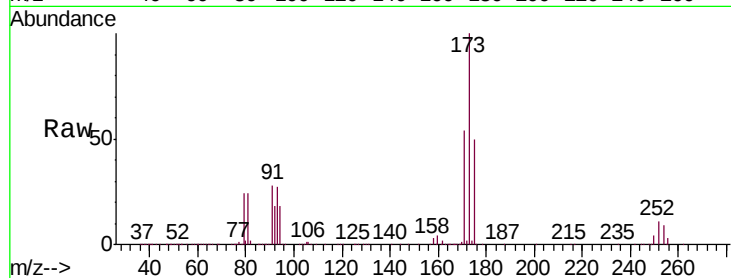
Tgt Ion:173 Resp: 2857766

Ion Ratio Lower Upper

173 100

175 50.4 39.4 59.0

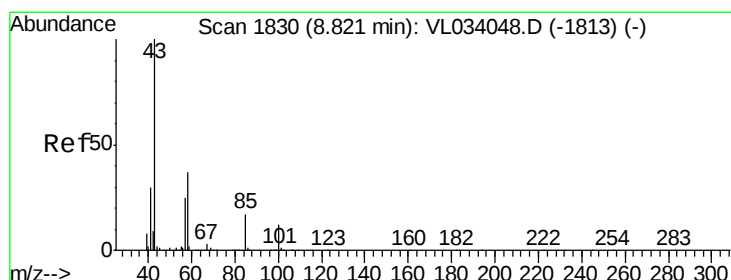
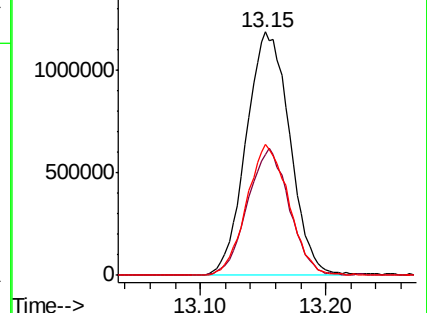
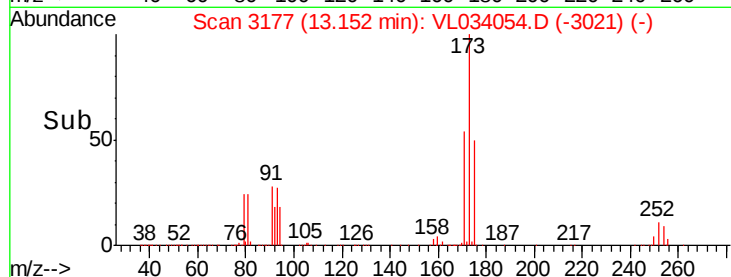
171 52.5 41.9 62.9



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 12.008 ppbv

RT: 8.82 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VL034054.D

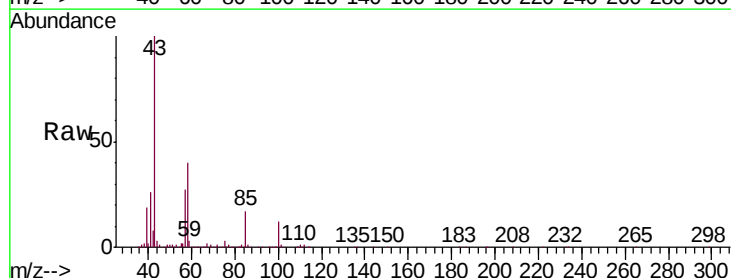
Acq: 30 Jul 2019 6:00

Tgt Ion: 43 Resp: 3824580

Ion Ratio Lower Upper

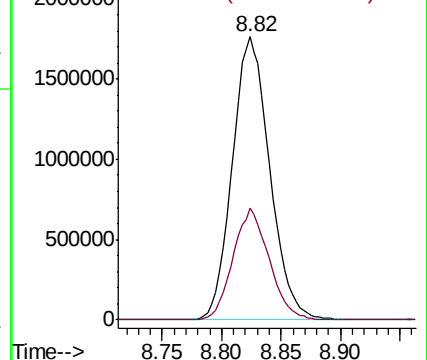
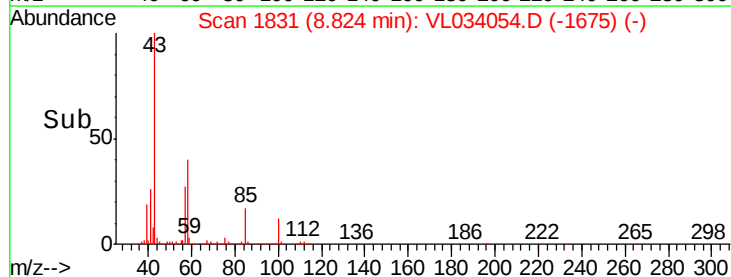
43 100

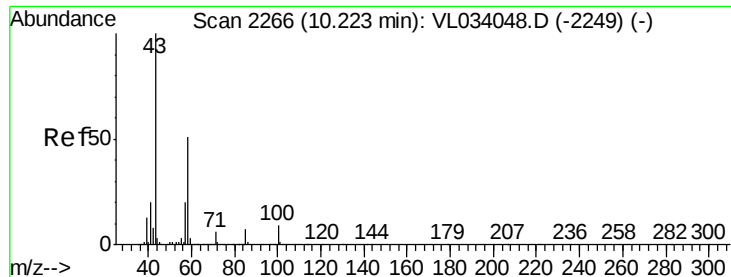
58 38.3 30.7 46.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 11.501 ppbv

RT: 10.22 min Scan# 2266

Delta R.T. -0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

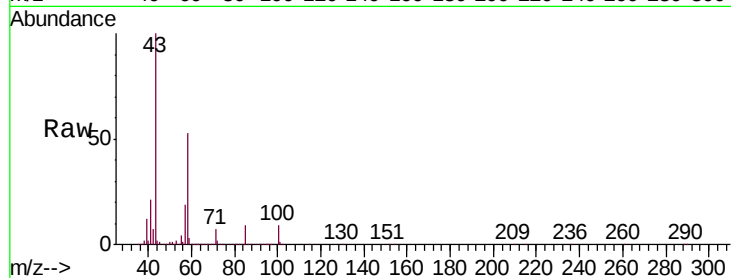
Tgt Ion: 43 Resp: 3131616

Ion Ratio Lower Upper

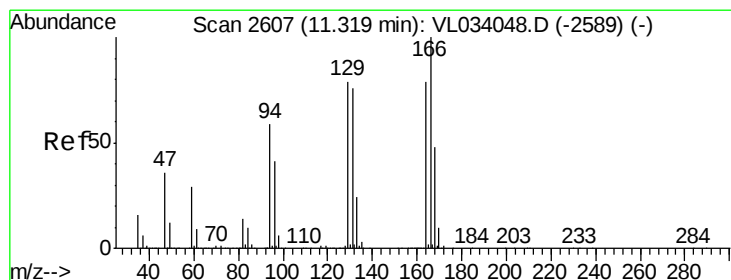
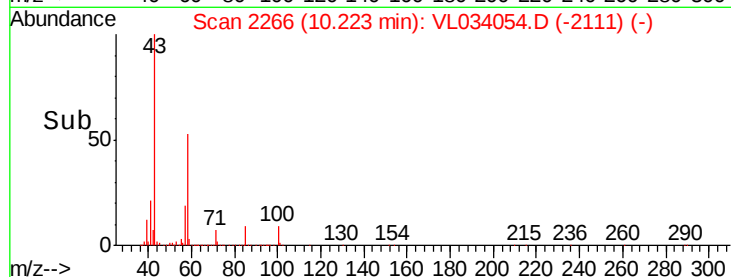
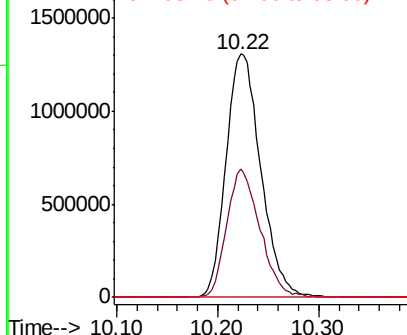
43 100

58 50.7 40.2 60.2

98 0.3 0.4 0.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 11.092 ppbv

RT: 11.33 min Scan# 2609

Delta R.T. 0.01 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Tgt Ion: 164 Resp: 1545291

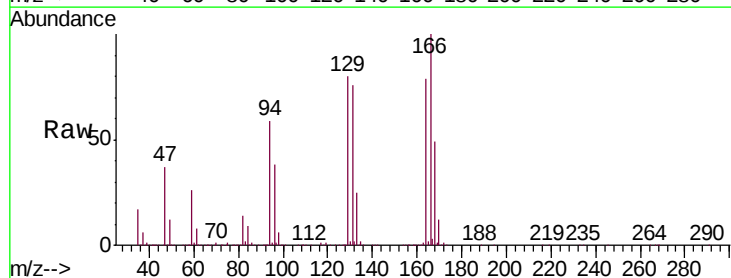
Ion Ratio Lower Upper

164 100

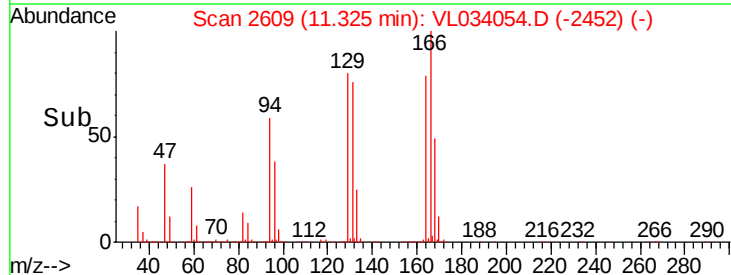
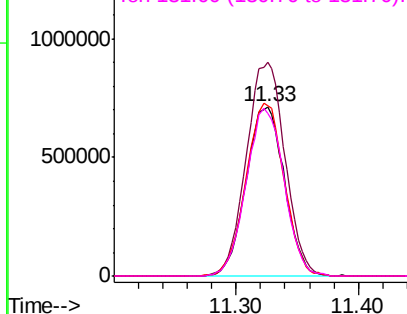
166 125.9 101.6 152.4

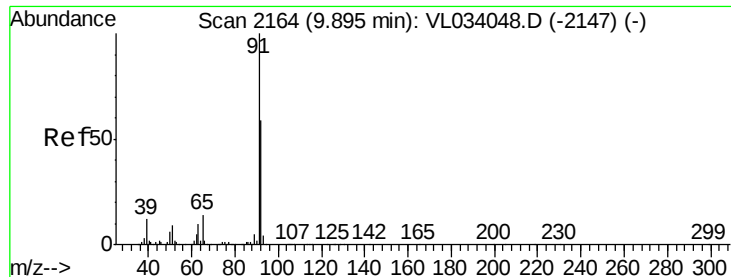
129 100.6 80.7 121.1

131 95.7 76.8 115.2



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: 12.835 ppbv

RT: 9.90 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

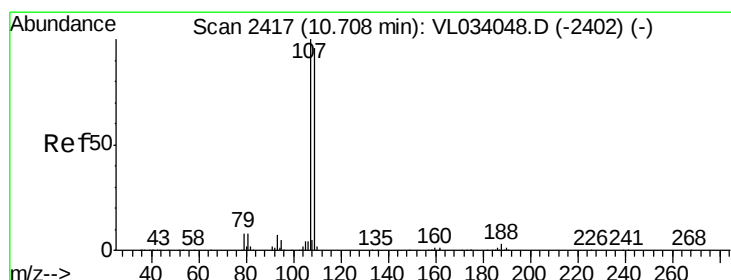
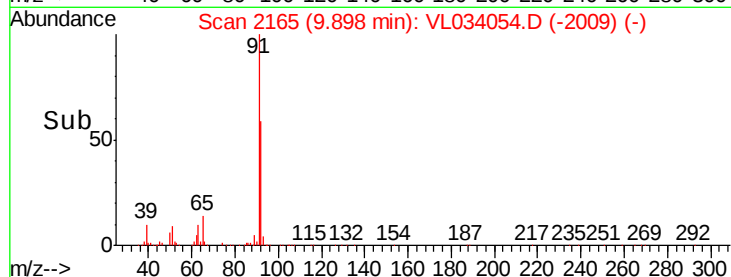
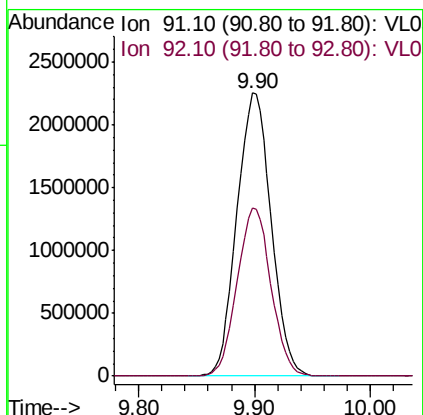
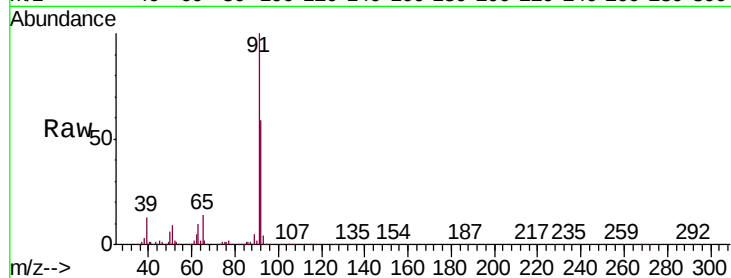
VSTDIC015

Tgt Ion: 91 Resp: 4629882

Ion Ratio Lower Upper

91 100

92 58.8 47.4 71.2



#54

1,2-Dibromoethane

Concen: 11.672 ppbv

RT: 10.71 min Scan# 2418

Delta R.T. 0.00 min

Lab File: VL034054.D

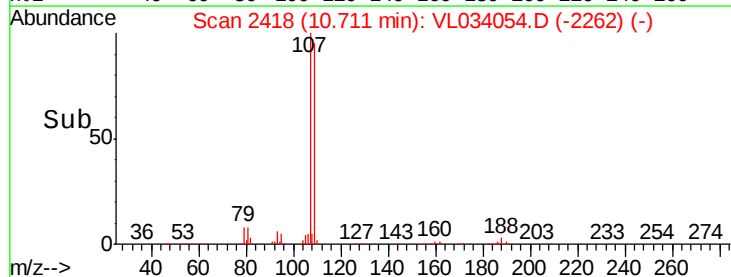
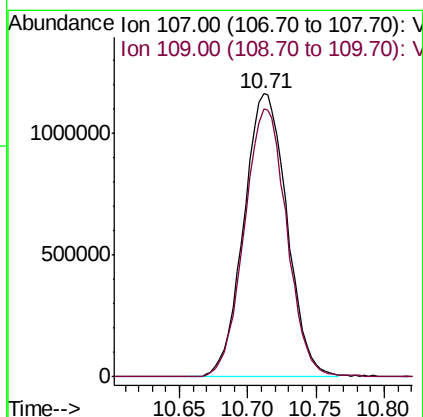
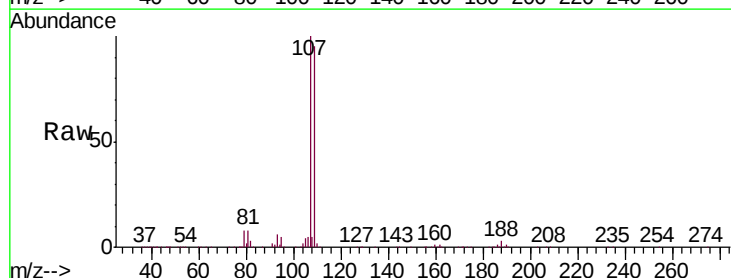
Acq: 30 Jul 2019 6:00

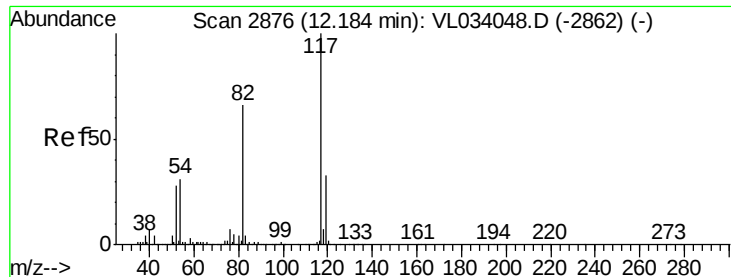
Tgt Ion: 107 Resp: 2549064

Ion Ratio Lower Upper

107 100

109 94.5 76.6 115.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.19 min Scan# 2878

Delta R.T. 0.01 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

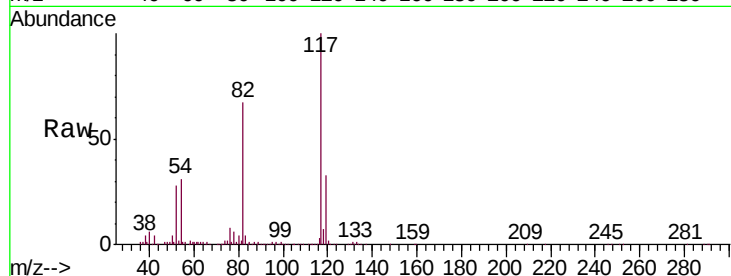
Tgt Ion:117 Resp: 3535469

Ion Ratio Lower Upper

117 100

82 64.1 49.8 74.8

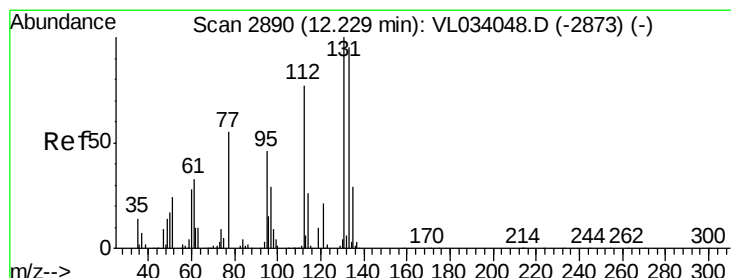
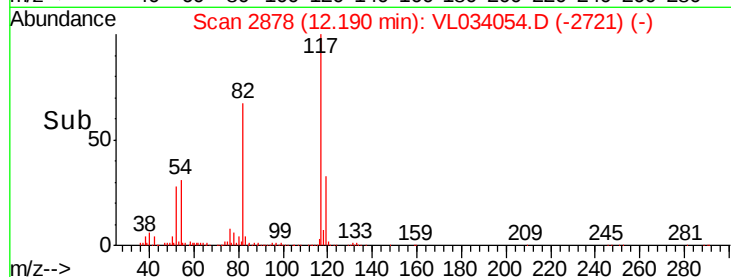
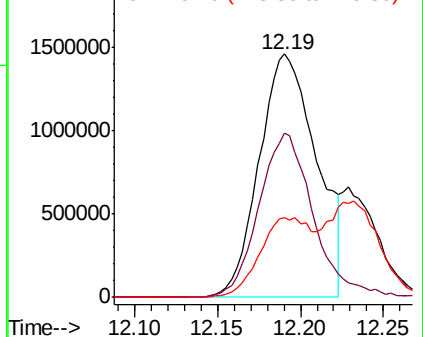
119 0.0 43.0 64.6#



Abundance Ion 117.10 (116.80 to 117.80): V

2000000 Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 13.108 ppbv

RT: 12.23 min Scan# 2890

Delta R.T. -0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

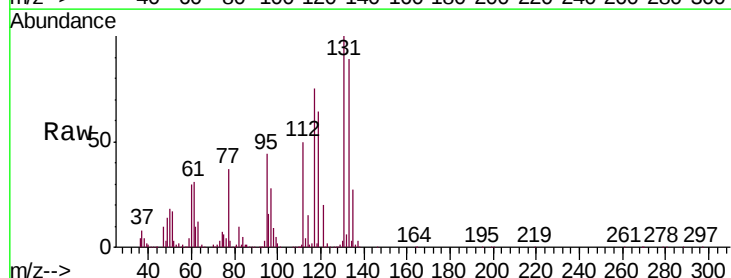
Tgt Ion:131 Resp: 2038328

Ion Ratio Lower Upper

131 100

133 95.1 76.6 114.8

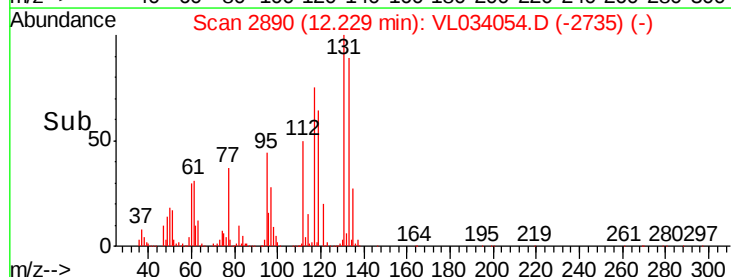
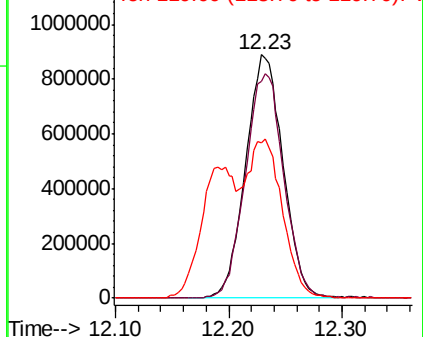
119 66.2 46.6 69.8

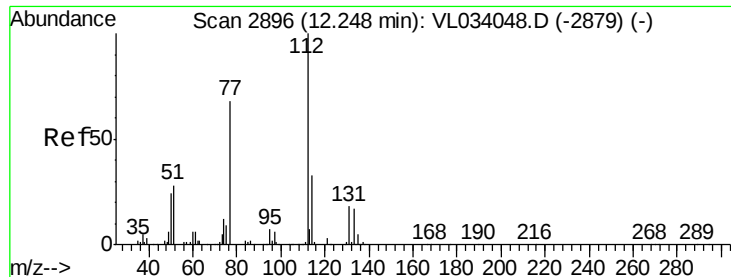


Abundance Ion 131.00 (130.70 to 131.70): V

1200000 Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

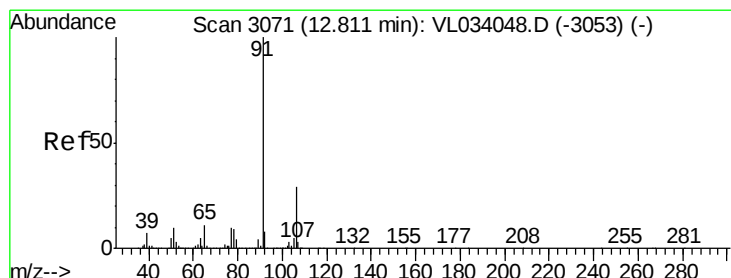
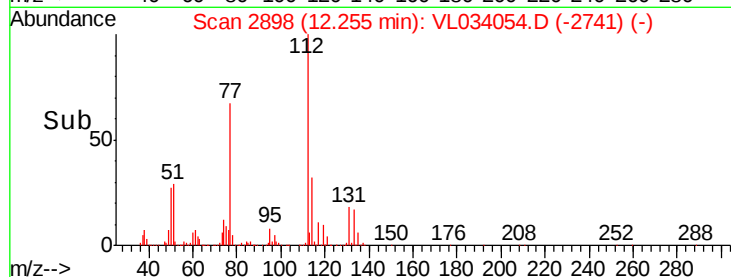
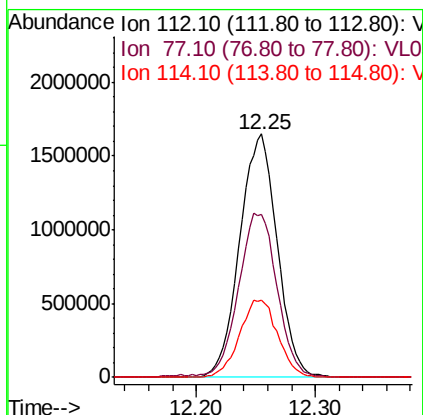
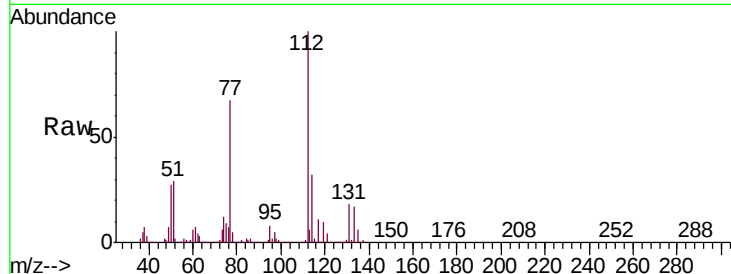




#57
Chlorobenzene
Concen: 12.979 ppbv
RT: 12.25 min Scan# 2898
Delta R.T. 0.01 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

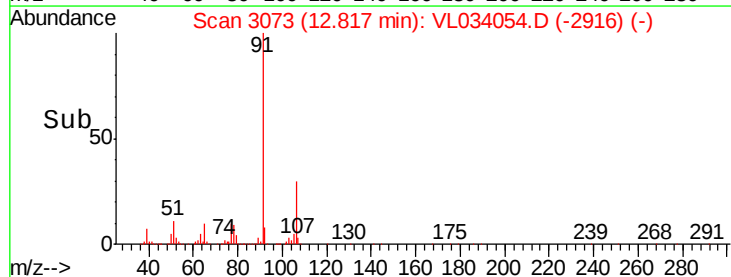
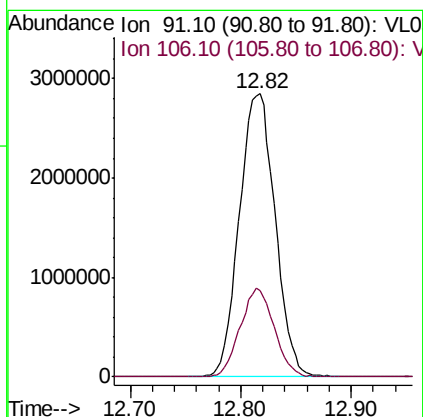
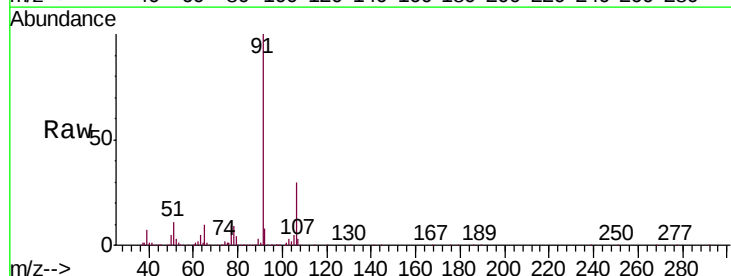
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

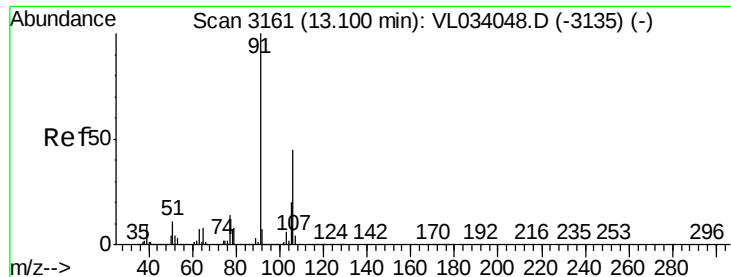
Tgt Ion: 112 Resp: 3595221
Ion Ratio Lower Upper
112 100
77 67.0 55.1 82.7
114 31.6 29.5 36.1



#58
Ethyl Benzene
Concen: 15.341 ppbv
RT: 12.82 min Scan# 3073
Delta R.T. 0.01 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Tgt Ion: 91 Resp: 6420041
Ion Ratio Lower Upper
91 100
106 30.3 23.5 35.3

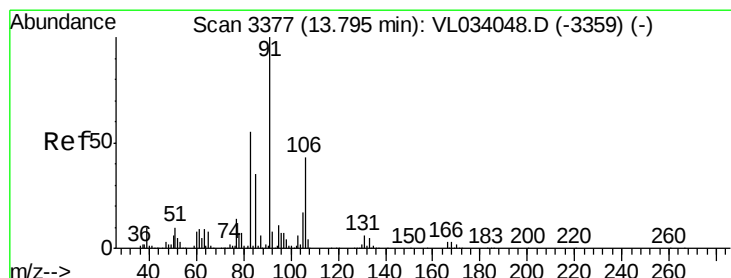
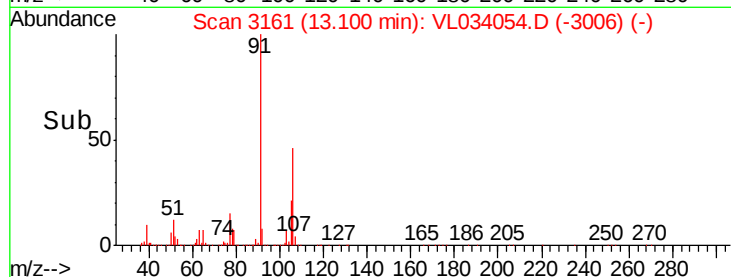
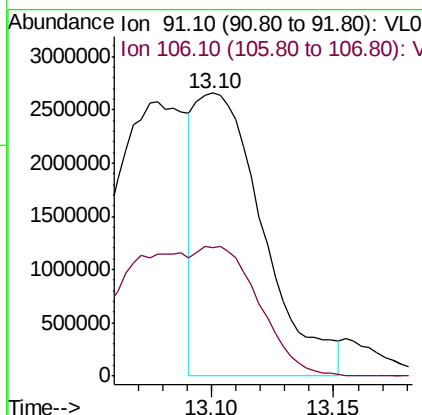
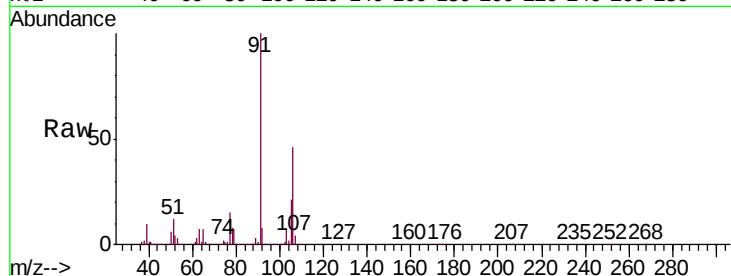




#59
m/p-Xylene
Concen: 13.421 ppbv
RT: 13.10 min Scan# 3161
Delta R.T. -0.00 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

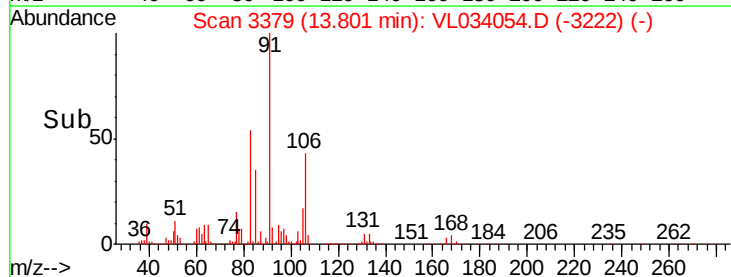
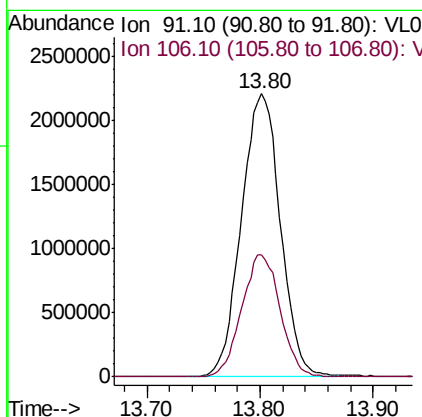
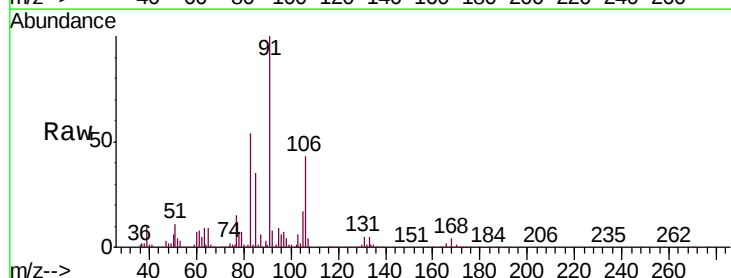
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

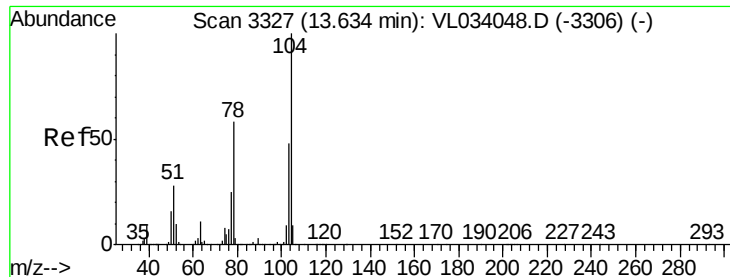
Tgt Ion: 91 Resp: 5088266
Ion Ratio Lower Upper
91 100
106 93.7 35.1 52.7#



#60
o-Xylene
Concen: 13.875 ppbv
RT: 13.80 min Scan# 3379
Delta R.T. 0.01 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Tgt Ion: 91 Resp: 5278110
Ion Ratio Lower Upper
91 100
106 42.9 21.2 63.6





#61

Styrene

Concen: 16.235 ppbv

RT: 13.63 min Scan# 3327

Delta R.T. -0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

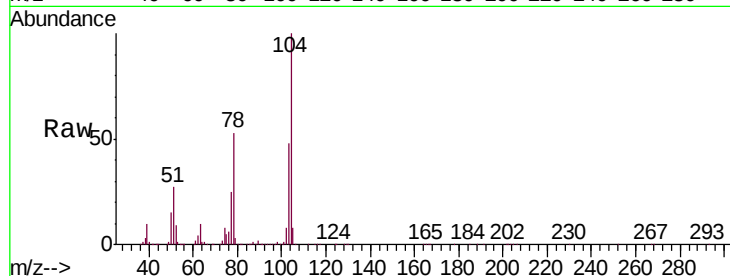
Tgt Ion:104 Resp: 4060062

Ion Ratio Lower Upper

104 100

78 55.0 44.3 66.5

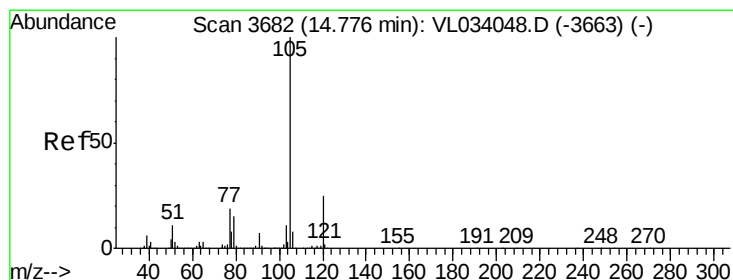
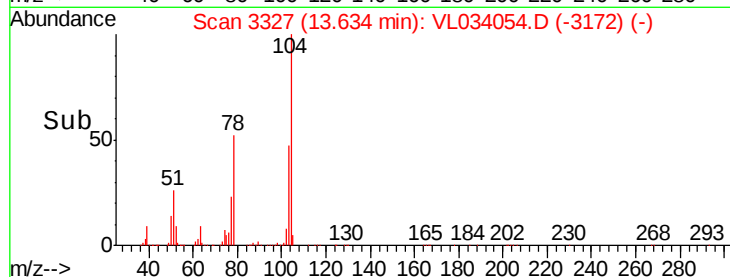
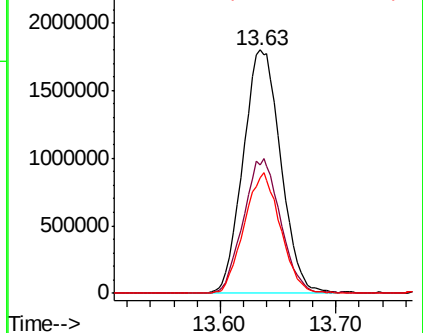
103 47.9 38.8 58.2



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: 12.635 ppbv

RT: 14.78 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VL034054.D

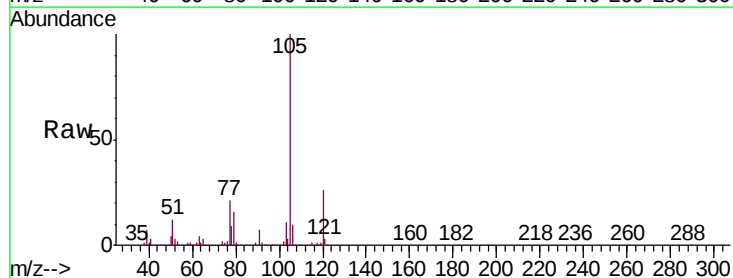
Acq: 30 Jul 2019 6:00

Tgt Ion:105 Resp: 6941804

Ion Ratio Lower Upper

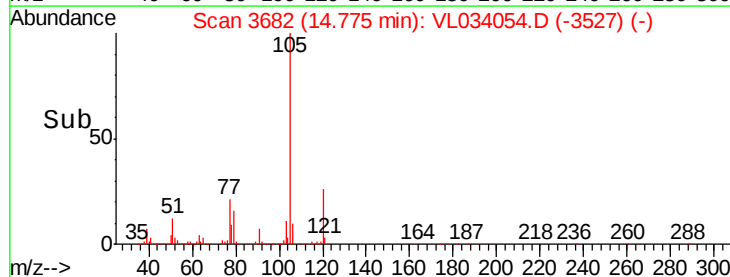
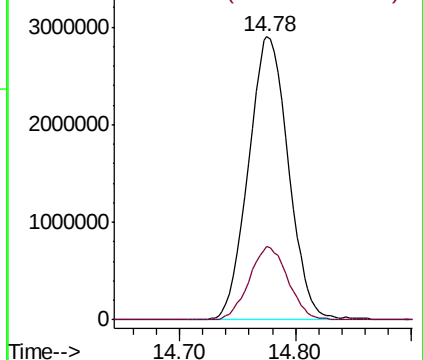
105 100

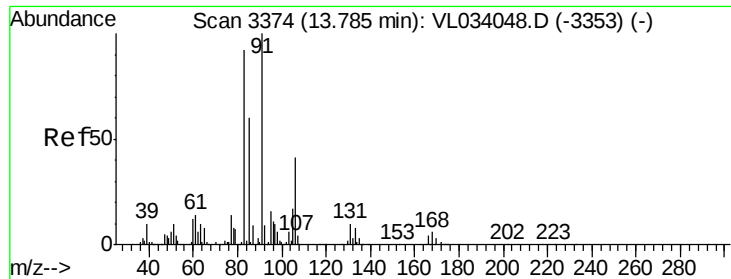
120 25.3 20.2 30.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 12.687 ppbv

RT: 13.79 min Scan# 3375

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

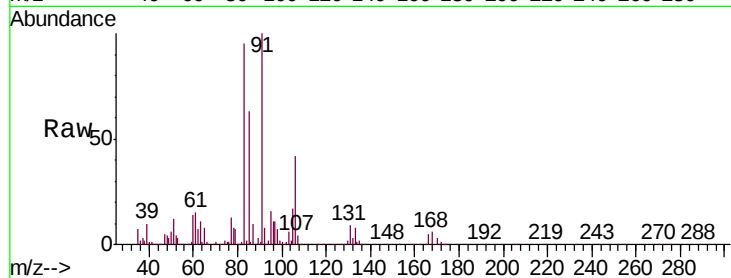
Tgt Ion: 83 Resp: 3745558

Ion Ratio Lower Upper

83 100

131 9.5 4.8 14.4

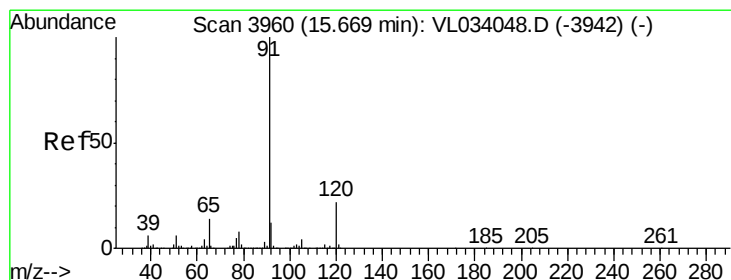
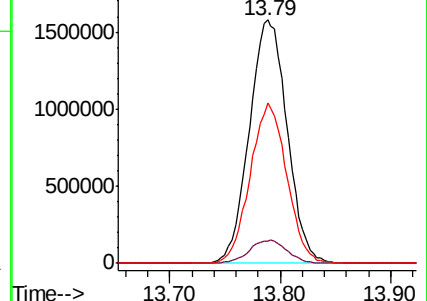
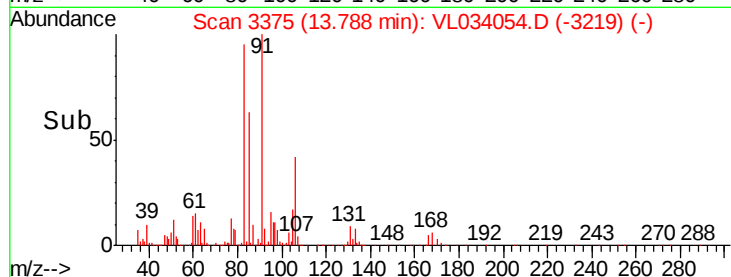
85 63.9 32.4 97.0



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 12.700 ppbv

RT: 15.68 min Scan# 3962

Delta R.T. 0.01 min

Lab File: VL034054.D

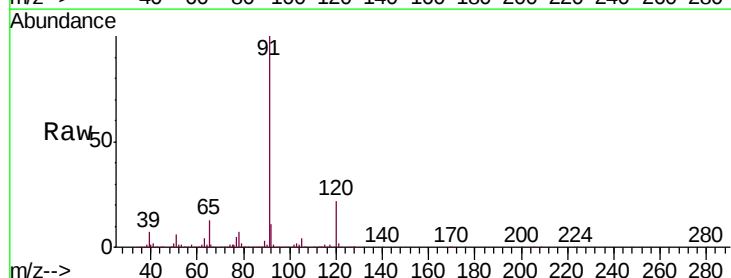
Acq: 30 Jul 2019 6:00

Tgt Ion: 120 Resp: 1804769

Ion Ratio Lower Upper

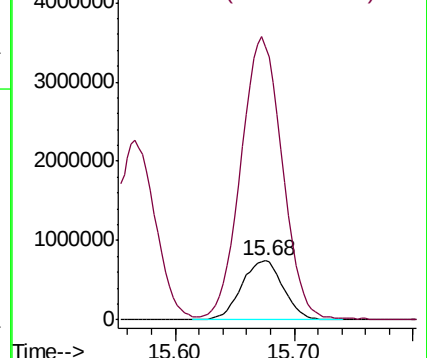
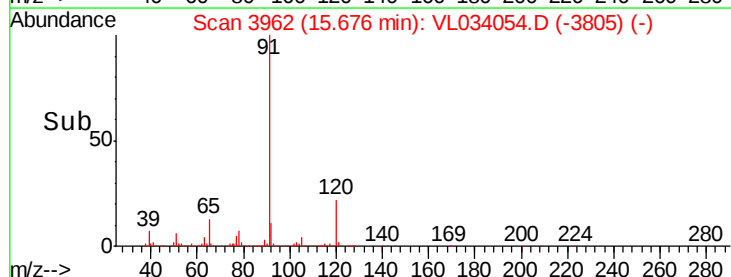
120 100

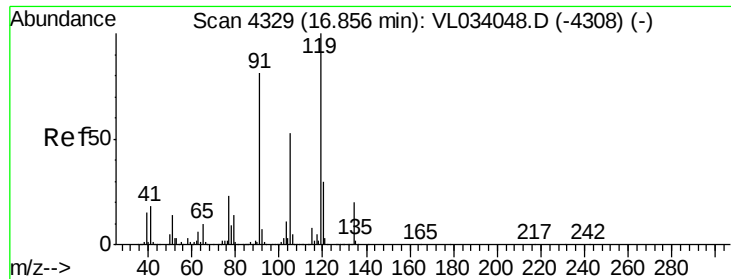
91 478.1 386.2 579.2



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

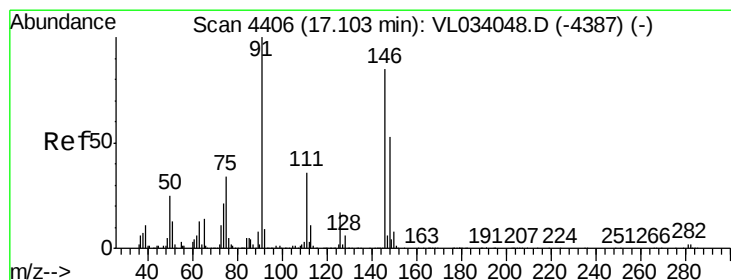
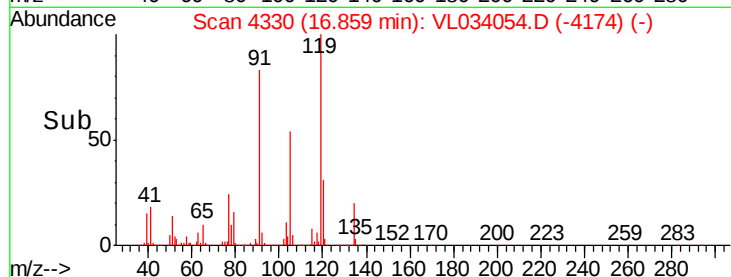
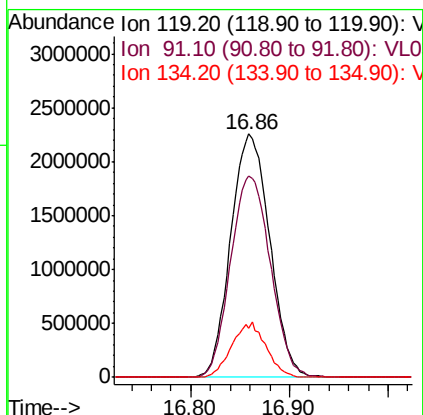
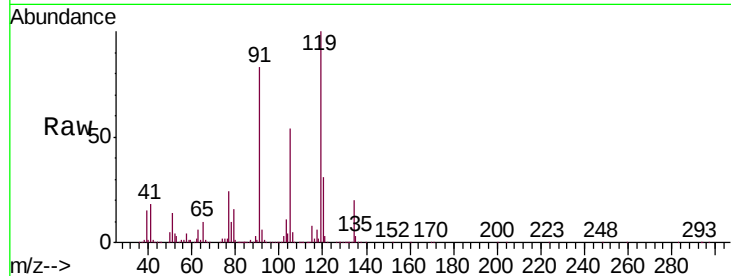




#65
tert-Butylbenzene
Concen: 13.350 ppbv
RT: 16.86 min Scan# 4330
Delta R.T. 0.00 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

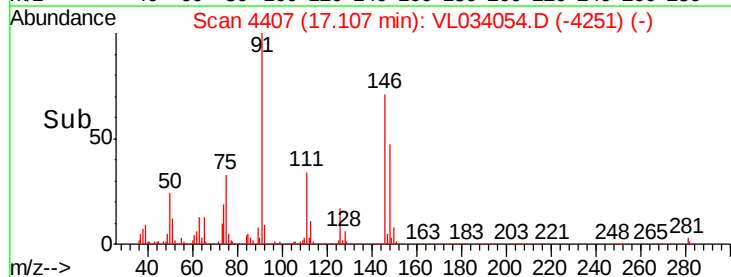
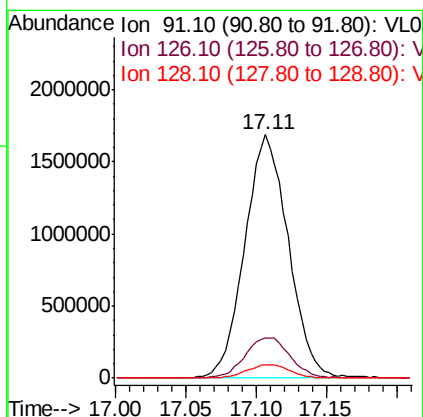
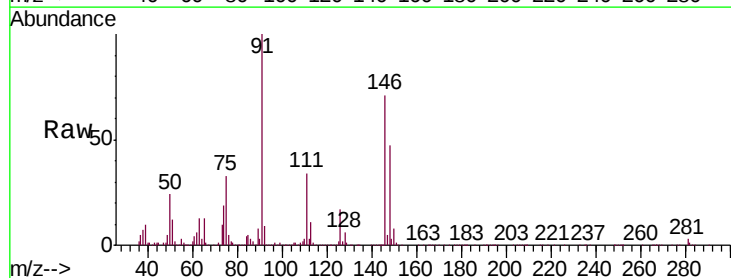
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

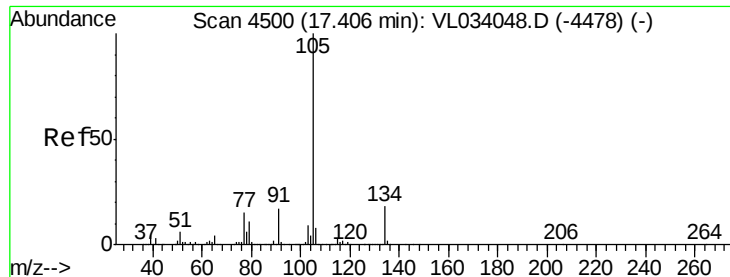
Tgt Ion: 119 Resp: 6183615
Ion Ratio Lower Upper
119 100
91 84.6 66.9 100.3
134 19.9 15.5 23.3



#66
Benzyl Chloride
Concen: 15.501 ppbv
RT: 17.11 min Scan# 4407
Delta R.T. 0.00 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Tgt Ion: 91 Resp: 3631014
Ion Ratio Lower Upper
91 100
126 17.4 13.5 20.3
128 5.6 4.5 6.7

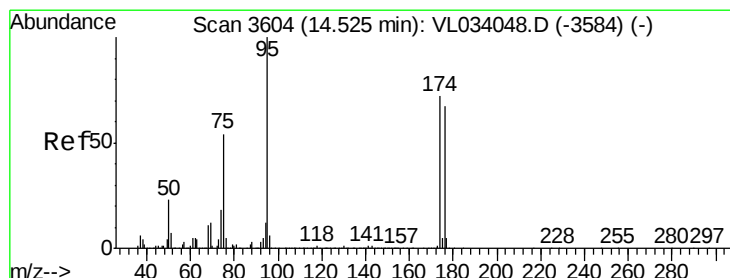
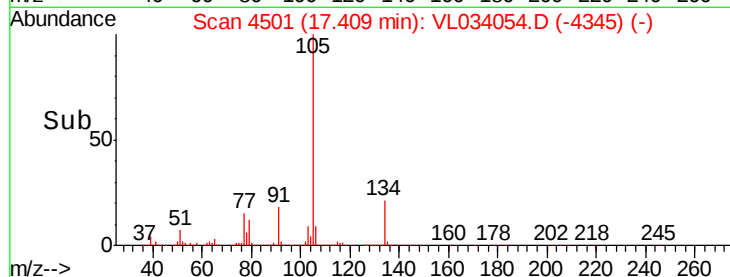
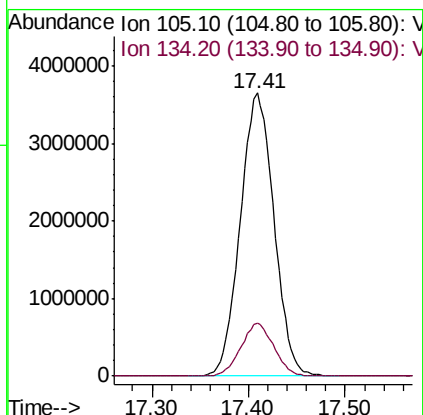
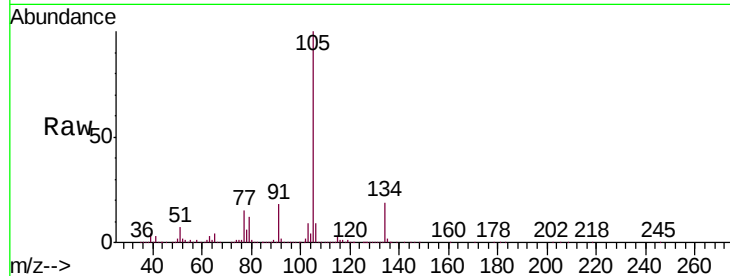




#67
 sec-Butylbenzene
 Concen: 13.523 ppbv
 RT: 17.41 min Scan# 4501
 Delta R.T. 0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

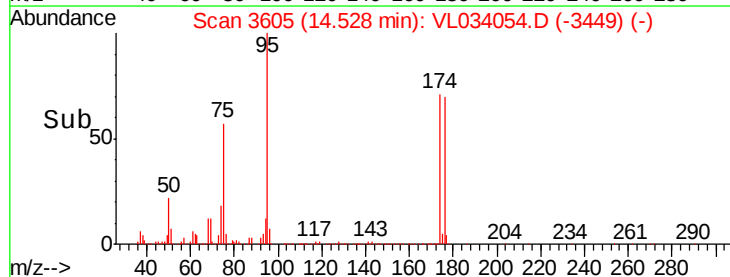
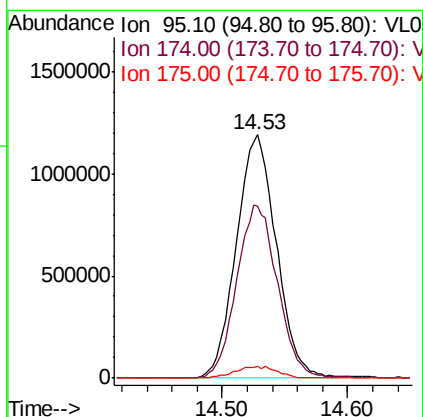
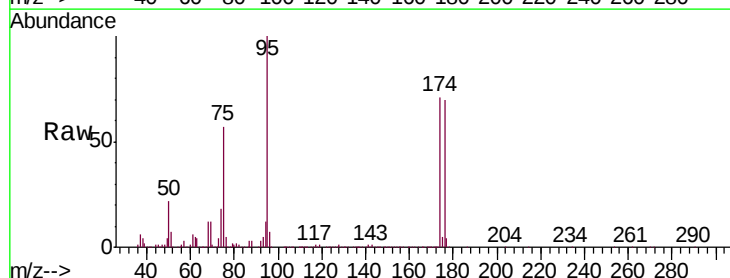
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

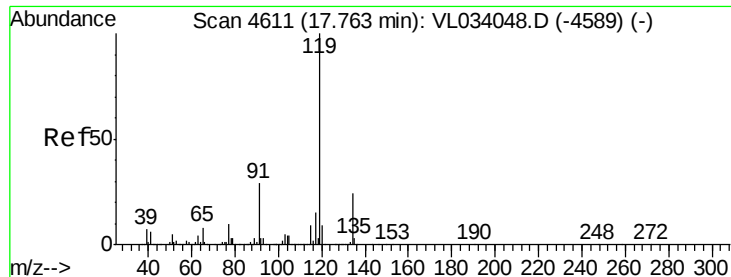
Tgt Ion: 105 Resp: 8840090
 Ion Ratio Lower Upper
 105 100
 134 18.4 14.3 21.5



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.073 ppbv
 RT: 14.53 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Tgt Ion: 95 Resp: 2632605
 Ion Ratio Lower Upper
 95 100
 174 73.3 57.6 86.4
 175 5.1 4.1 6.1

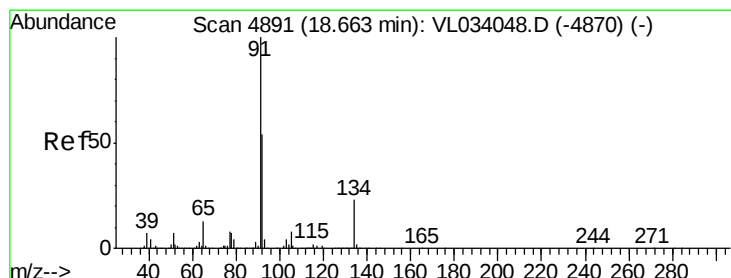
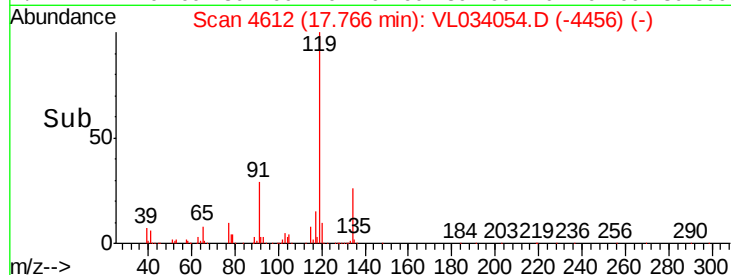
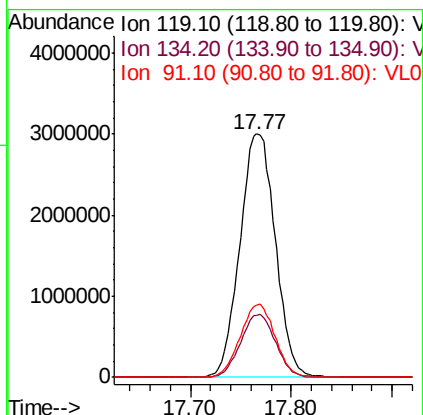
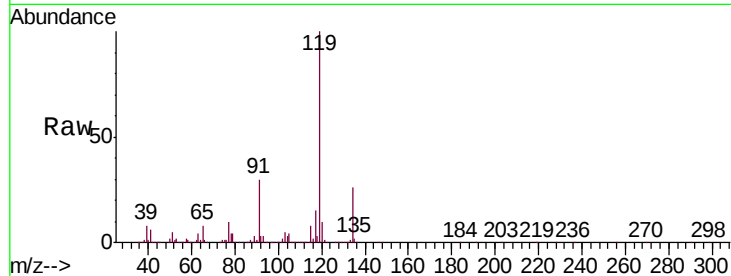




#69
p-Isopropyltoluene
Concen: 13.570 ppbv
RT: 17.77 min Scan# 4612
Delta R.T. 0.00 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

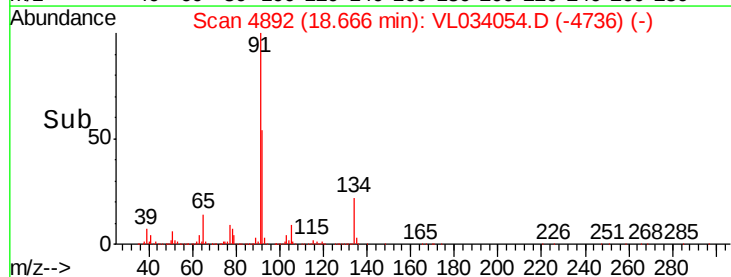
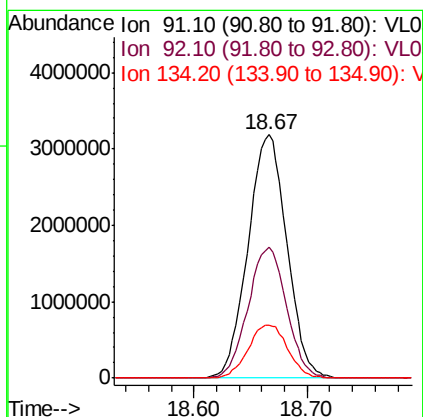
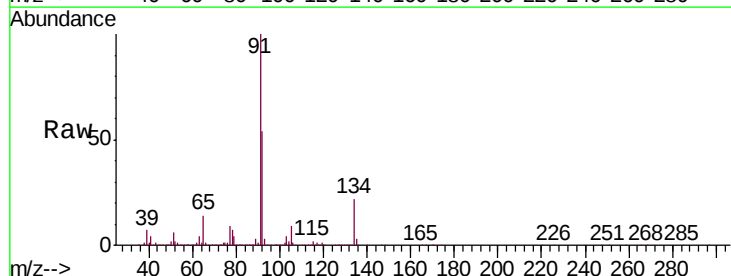
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

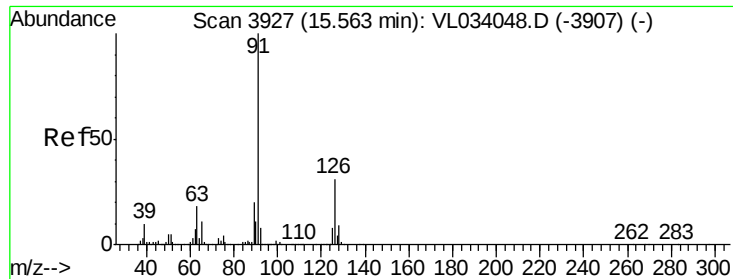
Tgt Ion: 119 Resp: 7294886
Ion Ratio Lower Upper
119 100
134 25.6 20.1 30.1
91 29.6 23.6 35.4



#70
n-Butylbenzene
Concen: 13.436 ppbv
RT: 18.67 min Scan# 4892
Delta R.T. 0.00 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Tgt Ion: 91 Resp: 7601666
Ion Ratio Lower Upper
91 100
92 53.2 42.6 64.0
134 22.2 17.7 26.5

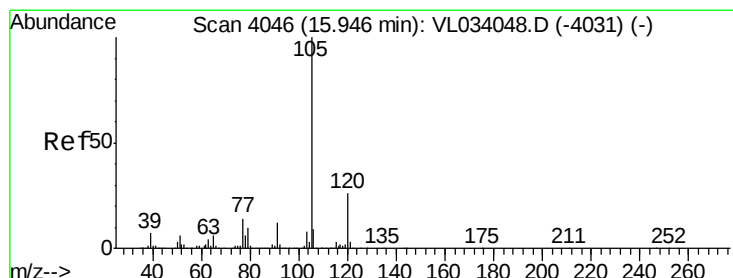
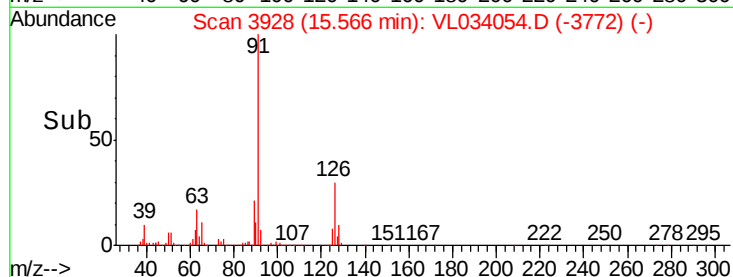
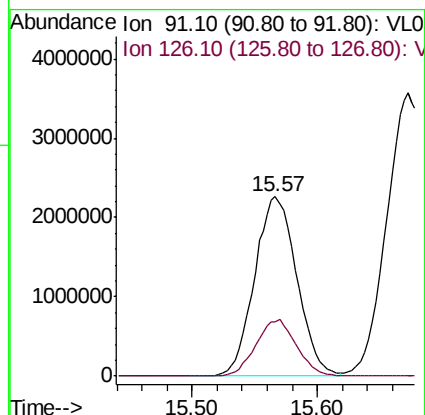
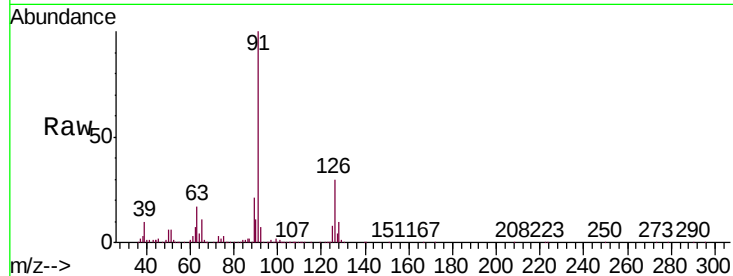




#71
2-Chlorotoluene
Concen: 13.242 ppbv
RT: 15.57 min Scan# 3928
Delta R.T. 0.00 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

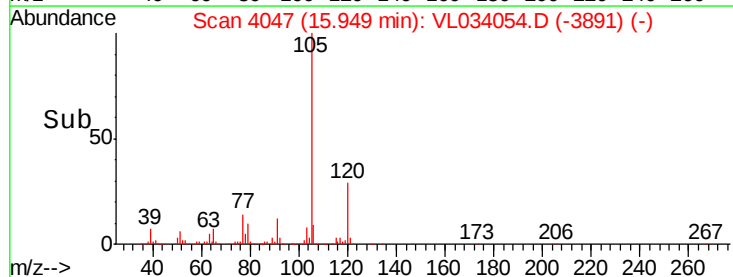
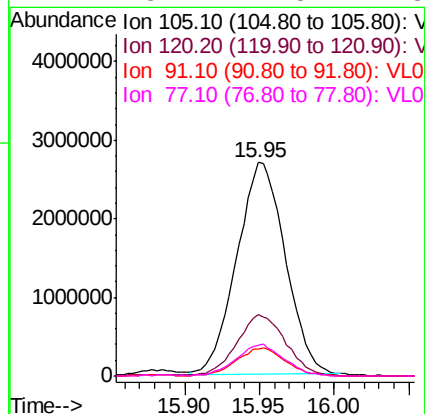
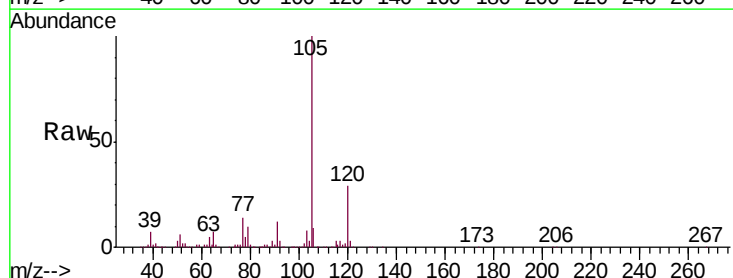
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

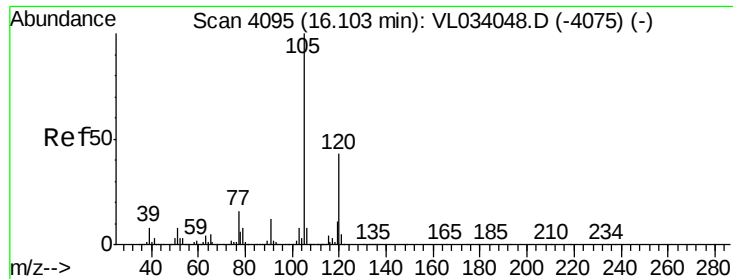
Tgt Ion: 91 Resp: 5298204
Ion Ratio Lower Upper
91 100
126 30.5 12.0 48.2



#72
4-Ethyltoluene
Concen: 13.194 ppbv
RT: 15.95 min Scan# 4047
Delta R.T. 0.00 min
Lab File: VL034054.D
Acq: 30 Jul 2019 6:00

Tgt Ion: 105 Resp: 6081496
Ion Ratio Lower Upper
105 100
120 30.0 23.0 34.4
91 13.2 10.6 16.0
77 15.1 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 13.955 ppbv

RT: 16.11 min Scan# 4096

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

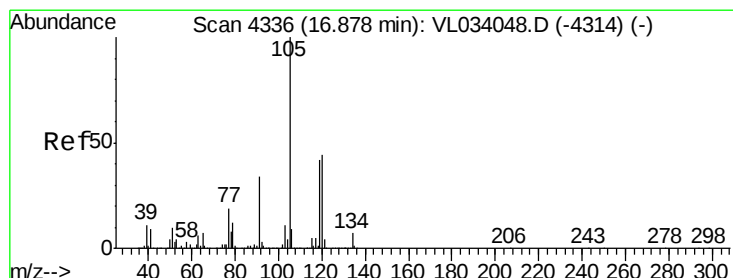
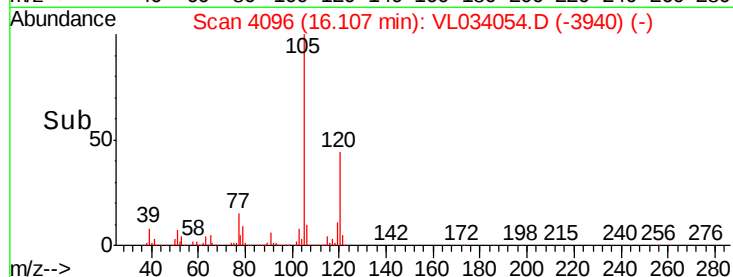
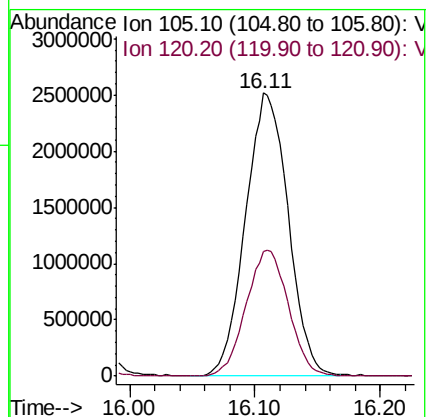
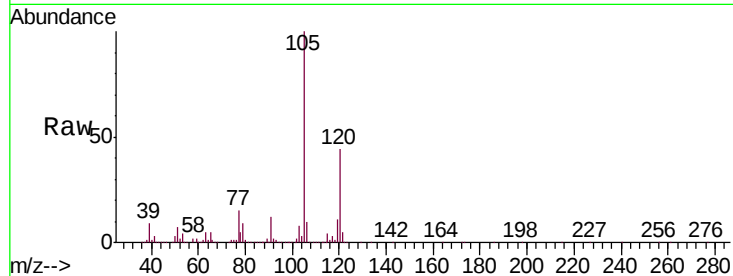
VSTDIC015

Tgt Ion:105 Resp: 5932055

Ion Ratio Lower Upper

105 100

120 43.9 34.7 52.1



#74

1,2,4-Trimethylbenzene

Concen: 12.967 ppbv

RT: 16.88 min Scan# 4337

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Tgt Ion:105 Resp: 6102831

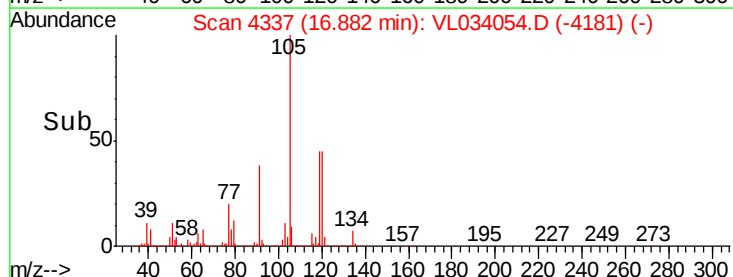
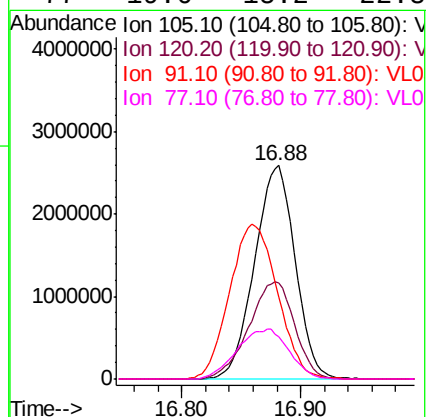
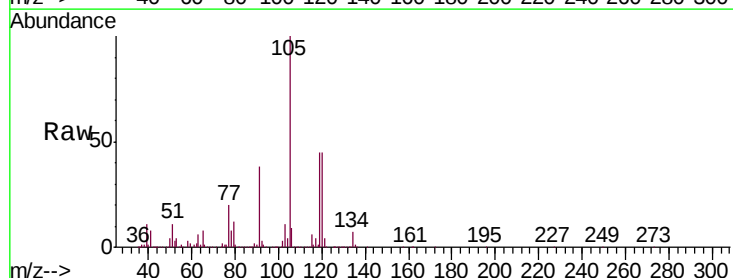
Ion Ratio Lower Upper

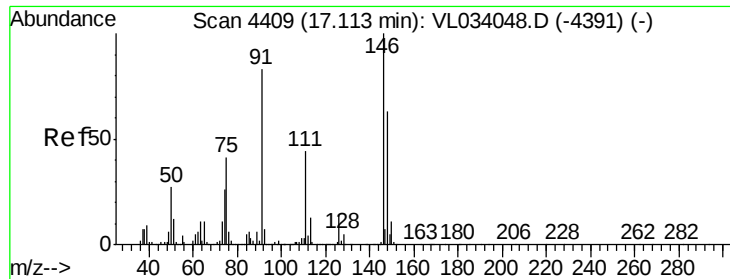
105 100

120 44.8 35.6 53.4

91 38.1 28.0 42.0

77 19.6 15.2 22.8





#75

1,3-Dichlorobenzene

Concen: 12.028 ppbv

RT: 17.12 min Scan# 4410

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

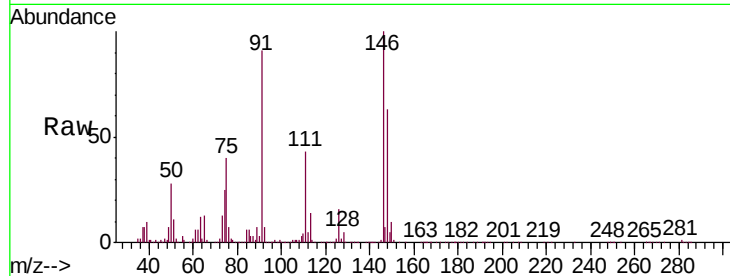
Tgt Ion:146 Resp: 3611519

Ion Ratio Lower Upper

146 100

111 45.3 22.1 66.5

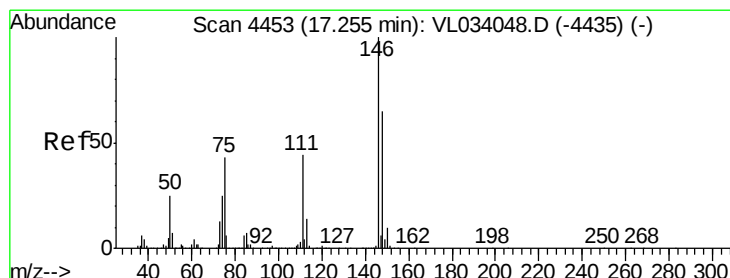
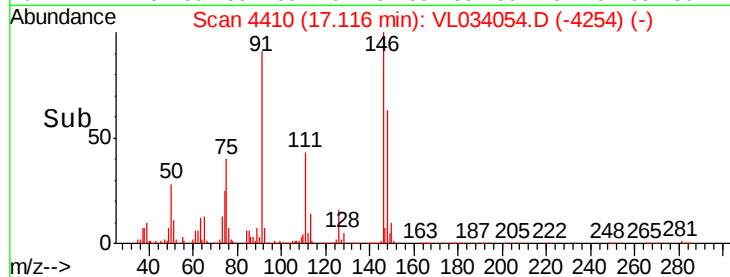
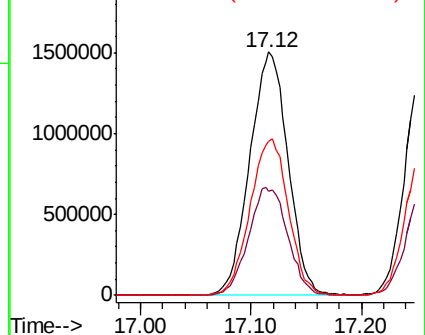
148 64.5 32.0 96.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 12.836 ppbv

RT: 17.26 min Scan# 4454

Delta R.T. 0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

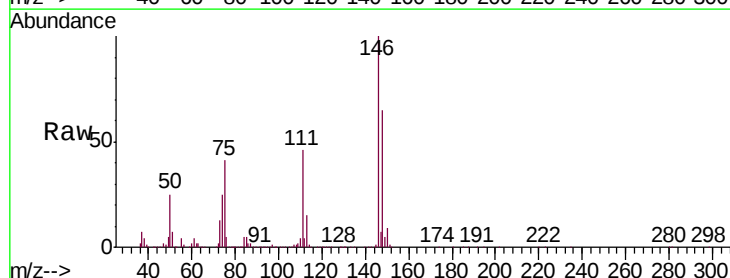
Tgt Ion:146 Resp: 3627451

Ion Ratio Lower Upper

146 100

111 43.7 21.8 65.4

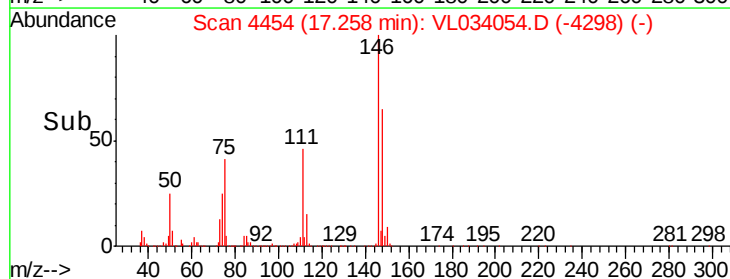
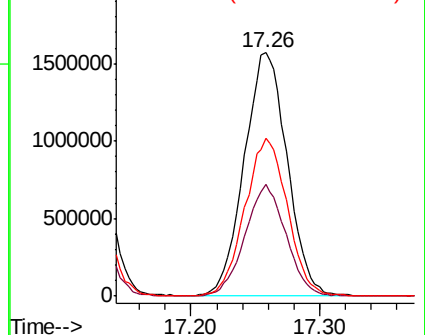
148 64.5 32.3 96.9

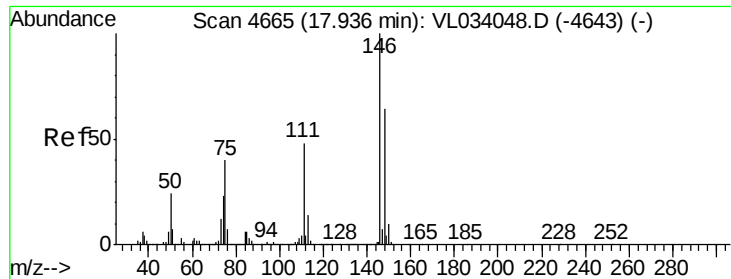


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





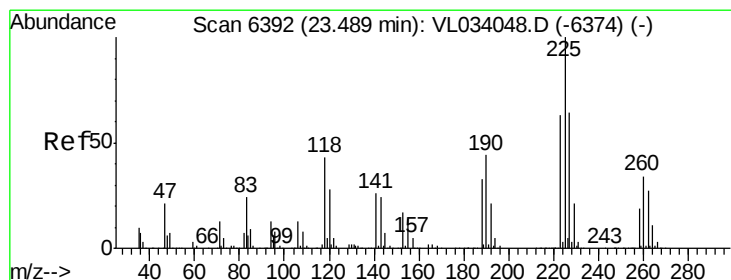
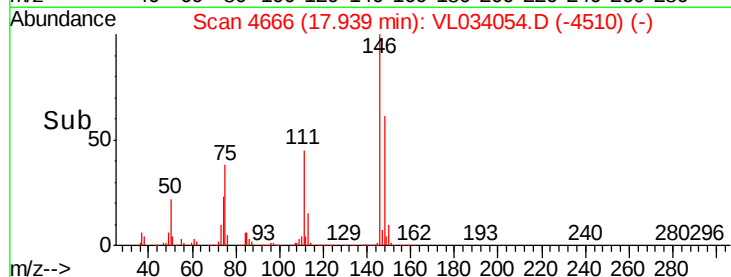
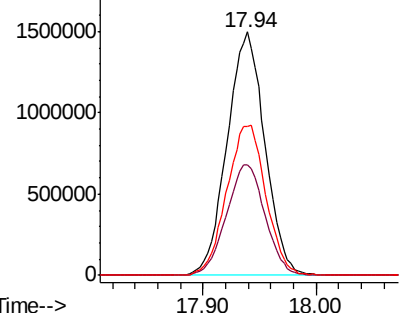
#77
 1,2-Dichlorobenzene
 Concen: 12.510 ppbv
 RT: 17.94 min Scan# 4666
 Delta R.T. 0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:146 Resp: 3471205
 Ion Ratio Lower Upper
 146 100
 111 46.5 23.4 70.2
 148 64.0 32.3 96.9

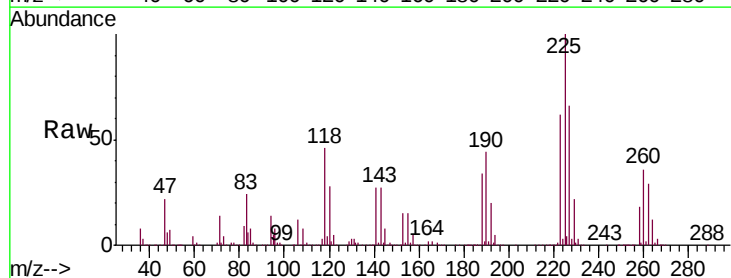


Abundance Ion 146.00 (145.70 to 146.70): V
 2000000 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

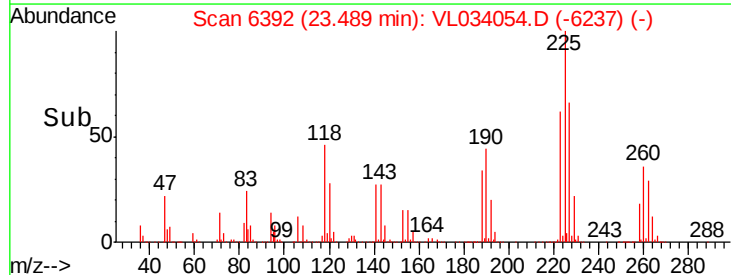
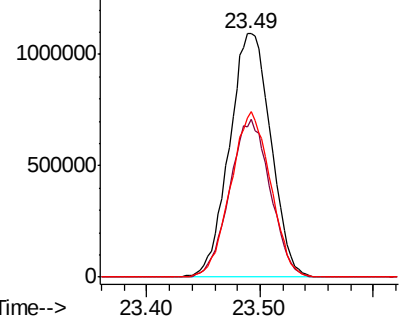


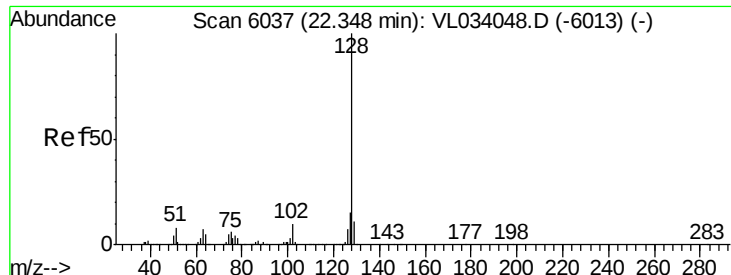
#78
 Hexachloro-1,3-Butadiene
 Concen: 11.490 ppbv
 RT: 23.49 min Scan# 6392
 Delta R.T. -0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Tgt Ion:225 Resp: 2782419
 Ion Ratio Lower Upper
 225 100
 223 63.5 49.6 74.4
 227 65.4 51.4 77.2



Abundance Ion 224.90 (224.60 to 225.60): V
 1500000 Ion 222.90 (222.60 to 223.60): V
 Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 15.032 ppbv

RT: 22.35 min Scan# 6037

Delta R.T. -0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

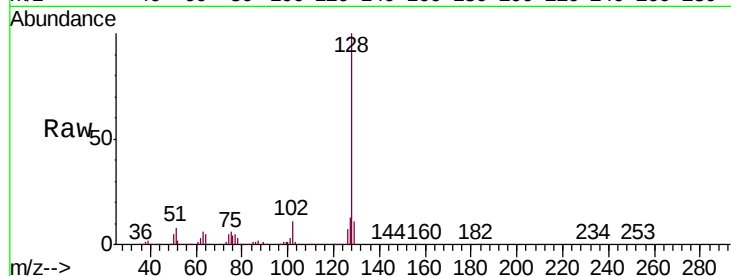
Tgt Ion:128 Resp: 5957058

Ion Ratio Lower Upper

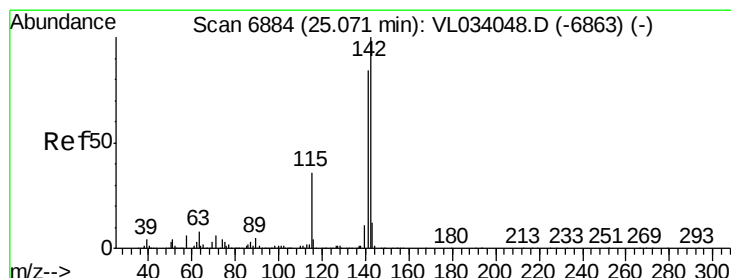
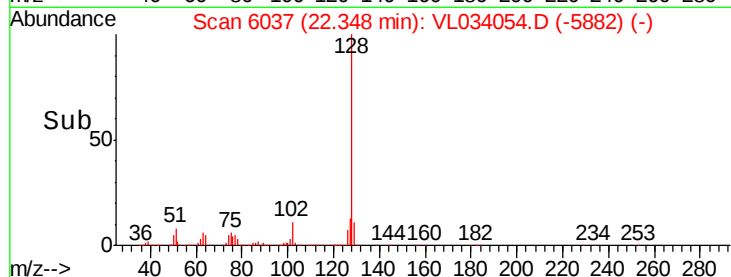
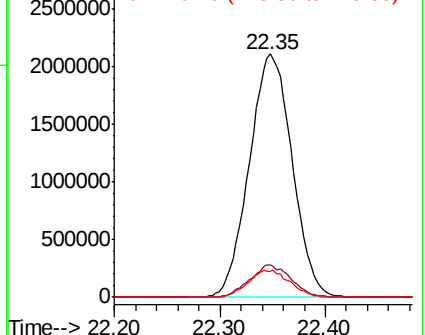
128 100

127 13.4 11.8 17.6

129 10.6 9.1 13.7



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: 13.528 ppbv

RT: 25.07 min Scan# 6884

Delta R.T. -0.00 min

Lab File: VL034054.D

Acq: 30 Jul 2019 6:00

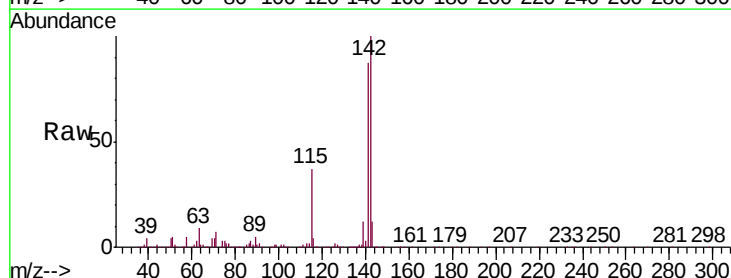
Tgt Ion:142 Resp: 1940750

Ion Ratio Lower Upper

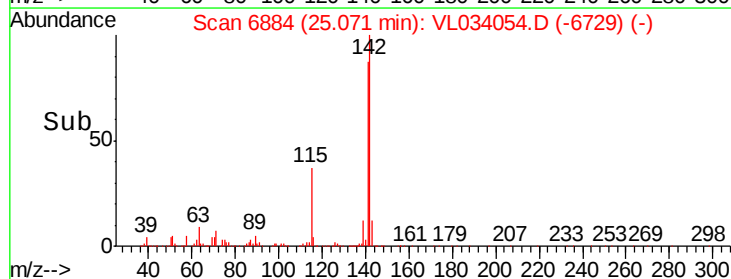
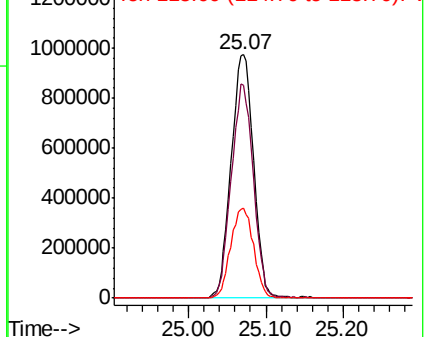
142 100

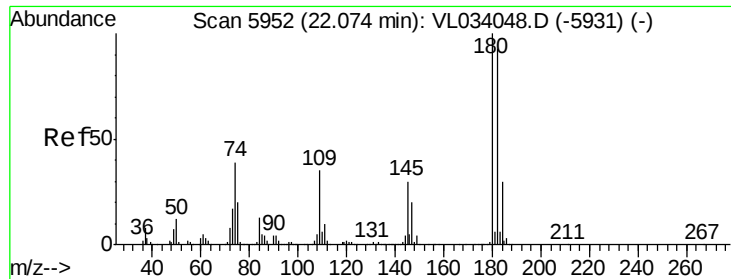
141 86.6 67.6 101.4

115 37.6 29.8 44.6



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

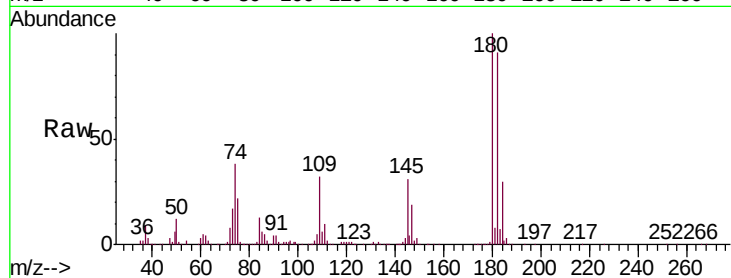




#81
 1,2,4-Trichlorobenzene
 Concen: 13.755 ppbv
 RT: 22.07 min Scan# 5951
 Delta R.T. -0.00 min
 Lab File: VL034054.D
 Acq: 30 Jul 2019 6:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:180 Resp: 3523963
 Ion Ratio Lower Upper
 180 100
 182 95.2 76.5 114.7
 184 30.9 24.5 36.7



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

