

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033464.D
 Acq On : 27 Mar 2019 10:20
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 28 07:25:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 26 16:00:50 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	849313	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1977141	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2530228	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1577096	7.95	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	79.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	1115929	9.009 ppbv	98
3) Chlorodifluoromethane	3.01	51	923825	9.448 ppbv	99
4) Chloromethane	3.17	50	492188	9.512 ppbv	98
5) Vinyl Chloride	3.29	62	486459	9.569 ppbv	100
6) Bromomethane	3.51	94	310886	9.516 ppbv	95
7) Chloroethane	3.60	64	177032	9.357 ppbv	95
8) Dichlorotetrafluoroethane	3.22	85	1219662	9.241 ppbv	100
9) Propene	3.03	41	390759	9.516 ppbv	97
10) Heptane	8.24	43	1050435	9.570 ppbv	100
11) Trichlorofluoromethane	4.00	101	1394375	9.134 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	964184	9.403 ppbv	100
13) Ethanol	3.64	45	113860	10.715 ppbv	66
14) Bromoethene	3.79	108	399520	9.769 ppbv	99
15) Acetone	3.90	43	877254	8.590 ppbv	98
16) 1,3-Butadiene	3.36	39	415468	10.257 ppbv	92
17) tert-Butyl alcohol	4.35	59	192899	10.273 ppbv	98
18) 1,1-Dichloroethene	4.35	96	427230	9.700 ppbv	95
19) Isopropyl Alcohol	4.02	45	680592	10.537 ppbv	# 98
20) Methylene Chloride	4.41	84	381053	8.790 ppbv	93
21) Allyl Chloride	4.47	41	632020	9.790 ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	437673	9.525 ppbv	97
23) Vinyl Acetate	5.15	43	1458382	10.033 ppbv	100
24) 1,1-Dichloroethane	5.09	63	1030074	9.329 ppbv	99
25) Ethyl Acetate	5.76	43	1791936	9.458 ppbv	100
26) Hexane	5.78	57	801111	9.509 ppbv	98
27) Carbon Disulfide	4.62	76	1057549	10.556 ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1193849	9.839 ppbv	100
29) Chloroform	5.85	83	1353297	9.371 ppbv	97
30) Cyclohexane	7.25	84	671174	10.071 ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	826708	9.870 ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1327694	9.655 ppbv	99
34) 2-Butanone	5.33	43	1150644	9.687 ppbv	100
35) Carbon Tetrachloride	7.13	117	1442742	10.302 ppbv	97
36) Benzene	7.00	78	1654521	9.973 ppbv	99
37) 1,2-Dichloroethane	6.41	62	1055155	9.489 ppbv	100
38) Trichloroethene	7.96	130	661381	10.593 ppbv	96
39) 1,2-Dichloropropane	7.73	63	621941	9.570 ppbv	99
40) 1,4-Dioxane	7.95	88	115053	4.964 ppbv	# 1
41) Tetrahydrofuran	6.14	42	655495	10.033 ppbv	97
42) Bromodichloromethane	7.91	83	1483191	9.793 ppbv	99
43) Methyl Methacrylate	8.13	69	676007	10.036 ppbv	99

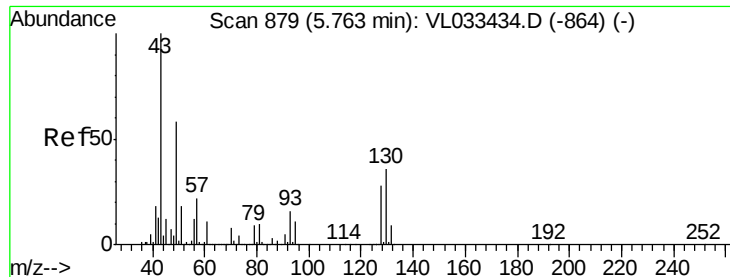
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2759809	9.520	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	922520	11.154	ppbv	98
46) cis-1,3-Dichloropropene	8.83	75	1047601	10.847	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	702328	9.518	ppbv	98
48) Dibromochloromethane	10.45	129	1287864	10.347	ppbv	100
49) Bromoform	13.20	173	1179887	9.923	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1712382	9.845	ppbv	99
51) 2-Hexanone	10.27	43	1367575	10.540	ppbv #	100
52) Tetrachloroethene	11.37	164	648752	10.365	ppbv	93
53) Toluene	9.95	91	1979877	10.270	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1142085	9.895	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	912417	7.868	ppbv	97
57) Chlorobenzene	12.30	112	1549004	7.884	ppbv	95
58) Ethyl Benzene	12.86	91	2852483	8.442	ppbv	99
59) m/p-Xylene	13.15	91	2338604	7.749	ppbv #	100
60) o-Xylene	13.85	91	2381084	8.159	ppbv	99
61) Styrene	13.68	104	1774612	8.860	ppbv	99
62) Isopropylbenzene	14.82	105	3336790	8.074	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	1629837	7.584	ppbv	100
64) n-propylbenzene	15.72	120	859159	8.193	ppbv	99
65) tert-Butylbenzene	16.91	119	3021578	8.297	ppbv	100
66) Benzyl Chloride	17.15	91	1639454	9.681	ppbv	99
67) sec-Butylbenzene	17.46	105	4285855	8.275	ppbv	99
69) p-Isopropyltoluene	17.81	119	3573841	8.475	ppbv	100
70) n-Butylbenzene	18.71	91	3790760	8.484	ppbv	100
71) 2-Chlorotoluene	15.62	91	2586328	8.230	ppbv	100
72) 4-Ethyltoluene	16.00	105	2780845	8.477	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	2673861	8.517	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	2796611	8.311	ppbv #	91
75) 1,3-Dichlorobenzene	17.16	146	1648536	7.927	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1649876	8.142	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1597842	8.097	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	873838	6.690	ppbv	99
79) Naphthalene	22.41	128	2735453	9.497	ppbv	100
80) Naphthalene, 2-methyl-	25.11	142	1186863	12.278	ppbv	98
81) 1,2,4-Trichlorobenzene	22.13	180	1395188	8.732	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033464.D

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ClientSampleId :

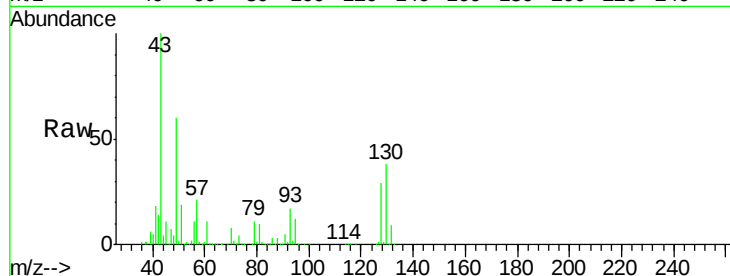
Tot Ion: 49 Resp: 849313

Ion Ratio Lower Upper

49 100

128 48.6 24.0 72.0

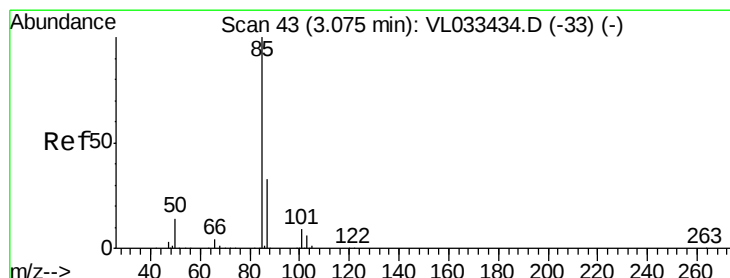
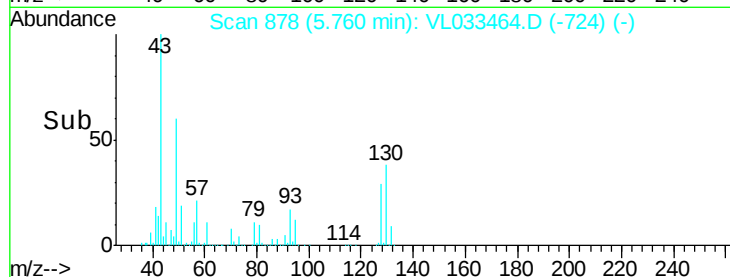
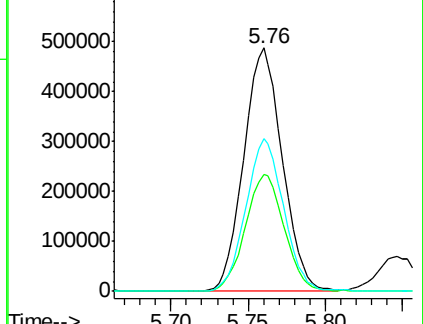
130 61.8 31.2 93.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 9.009 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033464.D

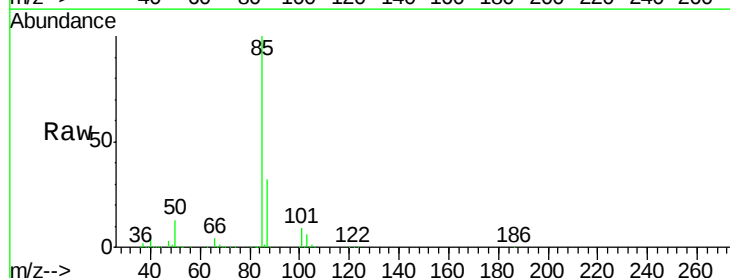
Acq: 27 Mar 2019 10:20

Tgt Ion: 85 Resp: 1115929

Ion Ratio Lower Upper

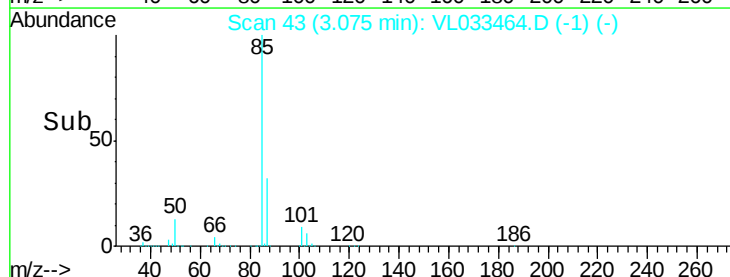
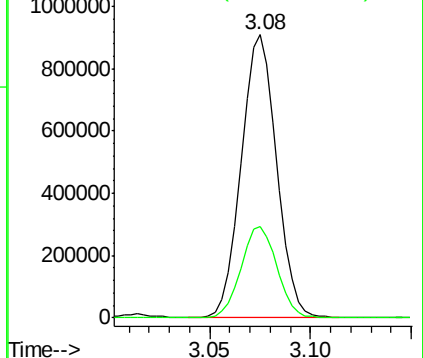
85 100

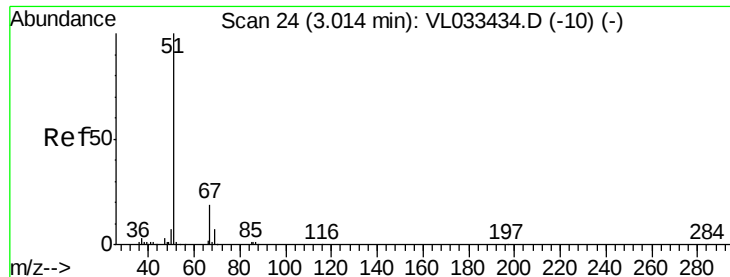
87 32.1 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

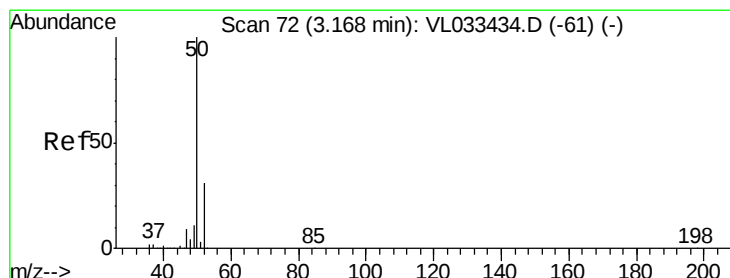
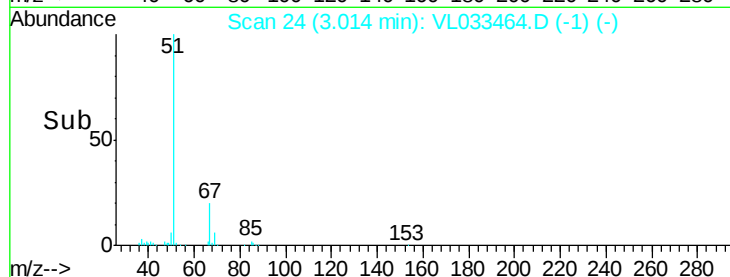
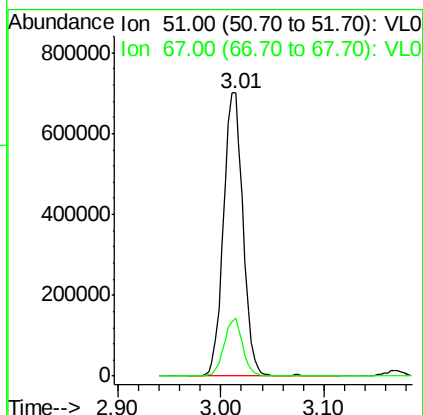
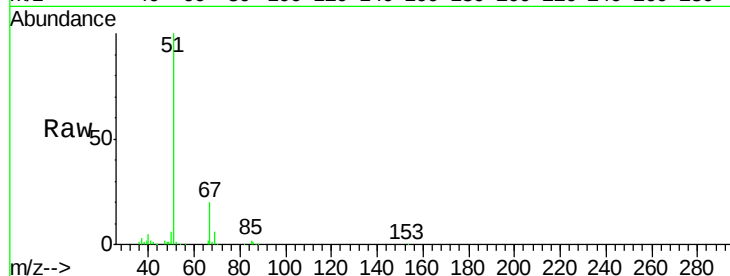




#3
Chlorodifluoromethane
Concen: 9.448 ppbv
RT: 3.01 min Scan# 24
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

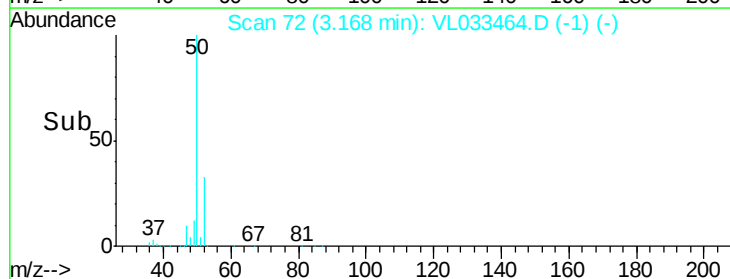
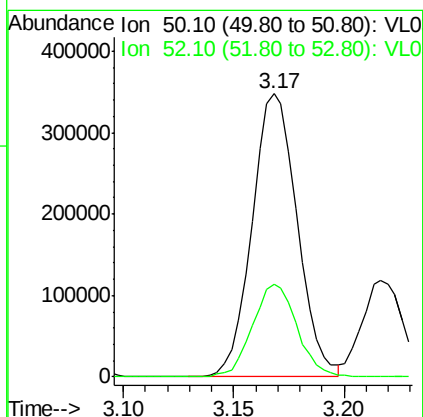
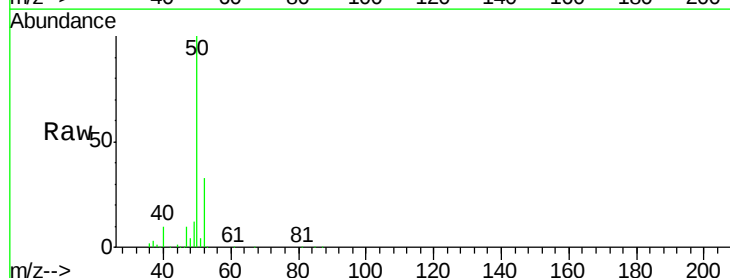
Instrument :
MSVOA_L
ClientSampleId :

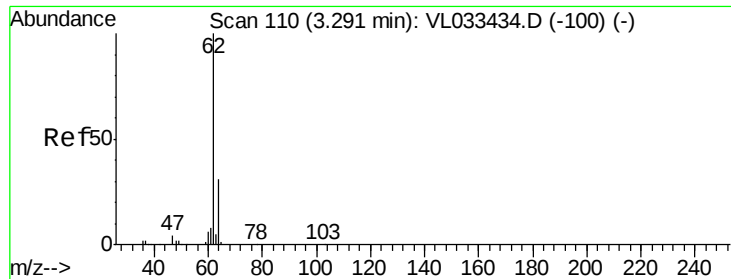
Tot Ion: 51 Resp: 923825
Ion Ratio Lower Upper
51 100
67 19.3 15.7 23.5



#4
Chloromethane
Concen: 9.512 ppbv
RT: 3.17 min Scan# 72
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Tgt Ion: 50 Resp: 492188
Ion Ratio Lower Upper
50 100
52 32.6 25.0 37.6





#5

Vinyl Chloride

Concen: 9.569 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

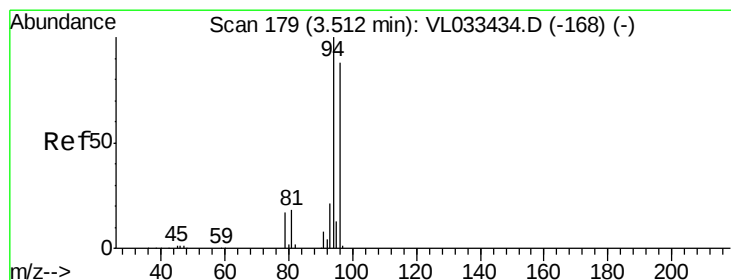
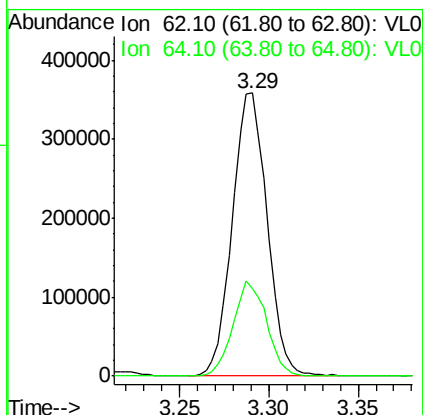
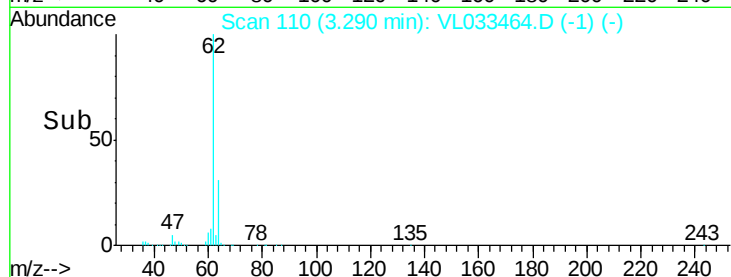
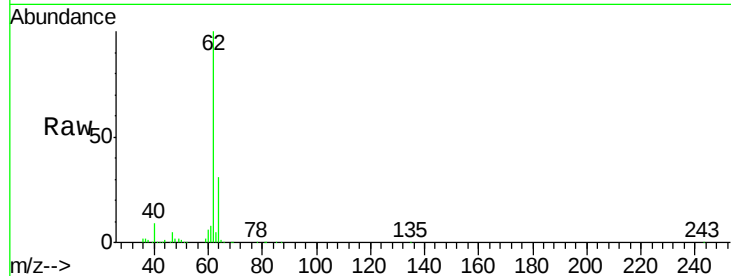
ClientSampleId :

Tot Ion: 62 Resp: 486459

Ion Ratio Lower Upper

62 100

64 31.0 24.9 37.3



#6

Bromomethane

Concen: 9.516 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033464.D

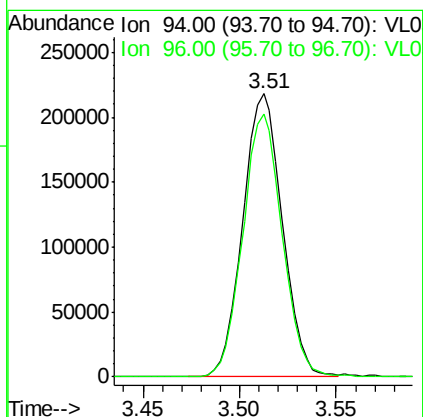
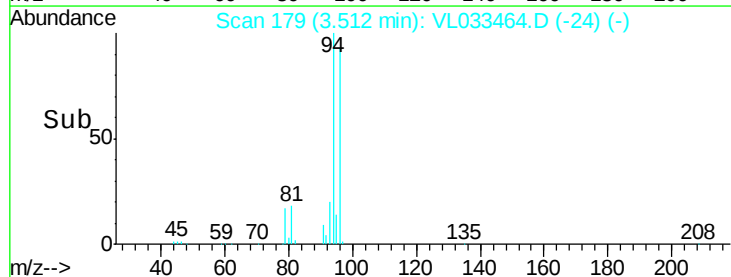
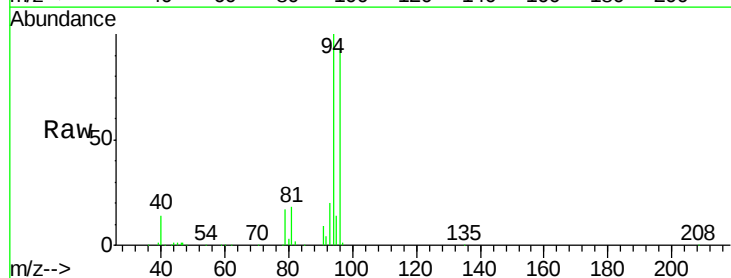
Acq: 27 Mar 2019 10:20

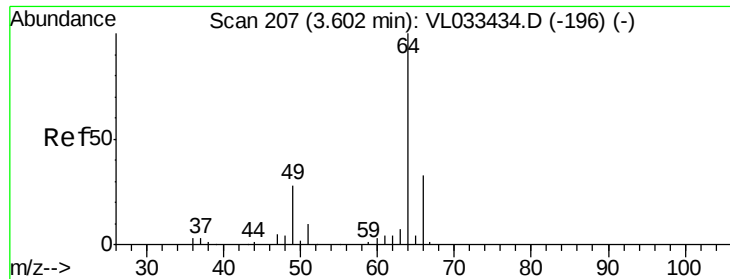
Tgt Ion: 94 Resp: 310886

Ion Ratio Lower Upper

94 100

96 92.8 70.2 105.2





#7

Chloroethane

Concen: 9.357 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

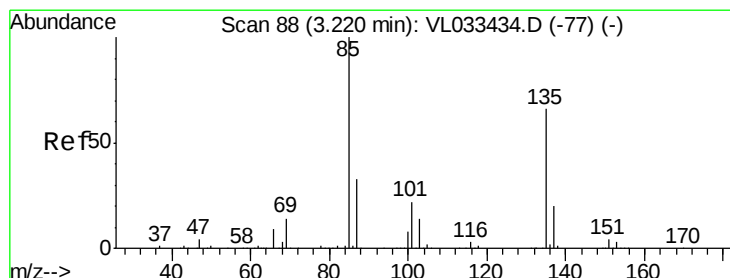
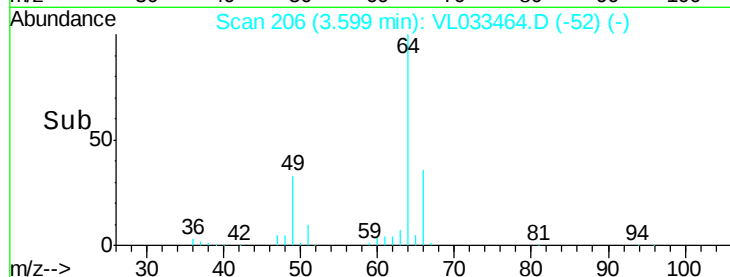
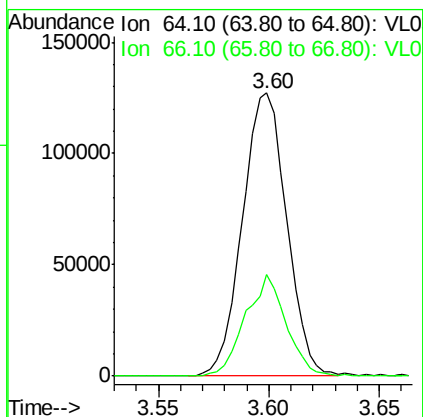
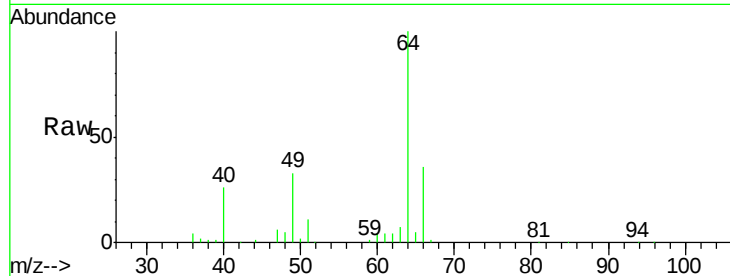
ClientSampleId :

Tot Ion: 64 Resp: 177032

Ion Ratio Lower Upper

64 100

66 36.1 26.7 40.1



#8

Dichlorotetrafluoroethane

Concen: 9.241 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.00 min

Lab File: VL033464.D

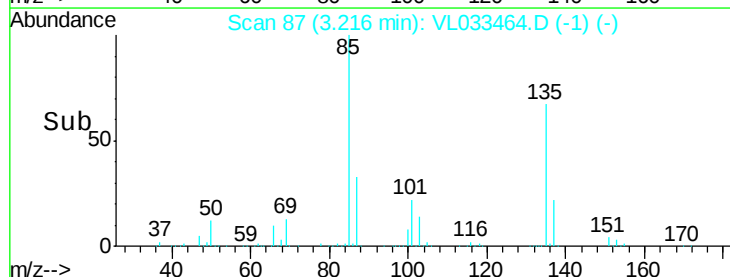
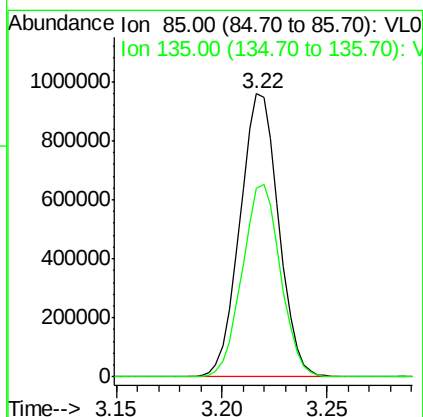
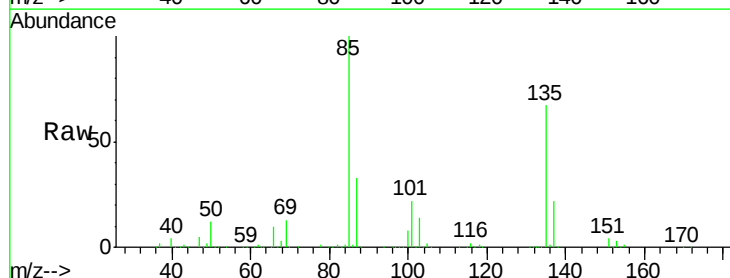
Acq: 27 Mar 2019 10:20

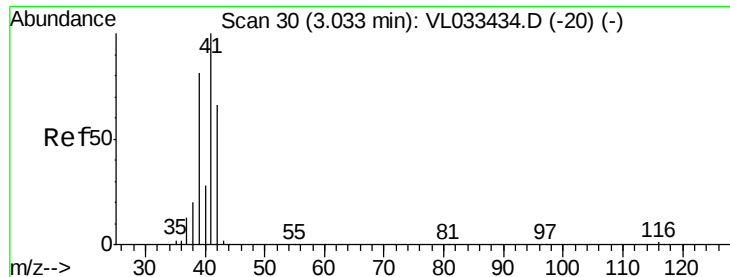
Tgt Ion: 85 Resp: 1219662

Ion Ratio Lower Upper

85 100

135 67.6 54.0 81.0





#9

Propene

Concen: 9.516 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

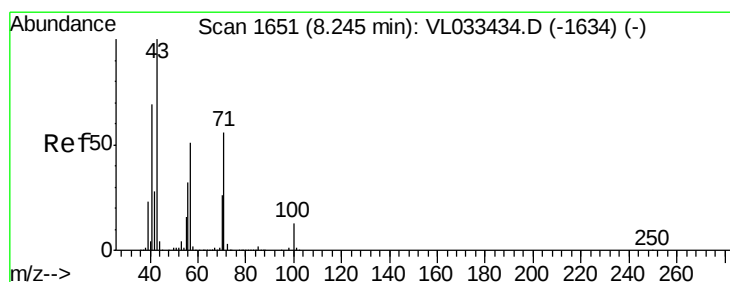
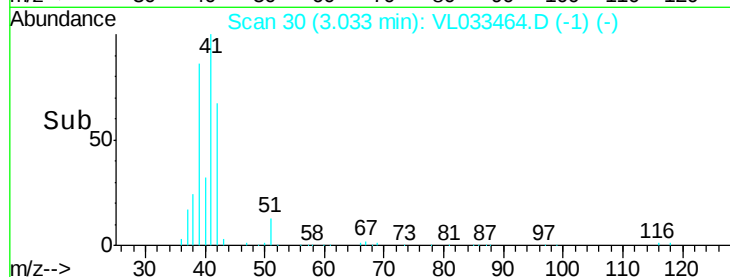
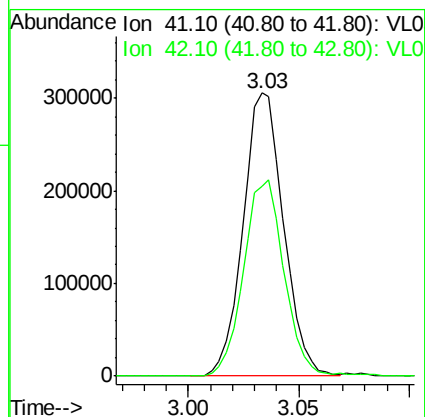
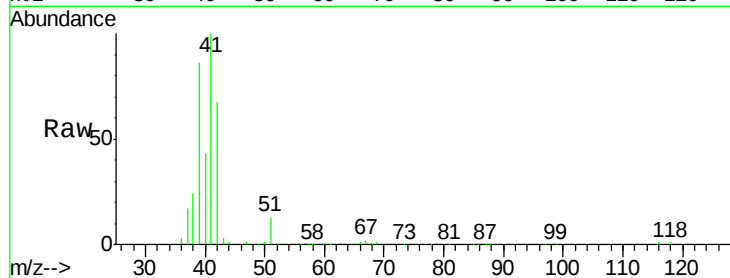
ClientSampleId :

Tot Ion: 41 Resp: 390759

Ion Ratio Lower Upper

41 100

42 69.8 53.9 80.9



#10

Heptane

Concen: 9.570 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VL033464.D

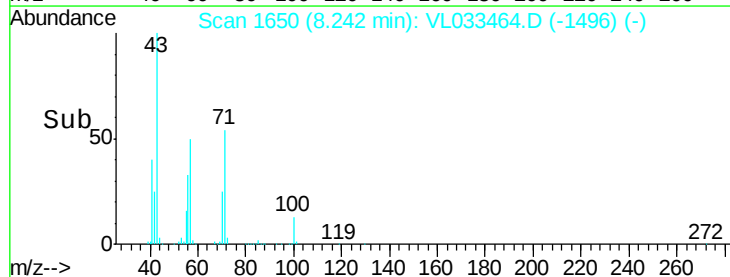
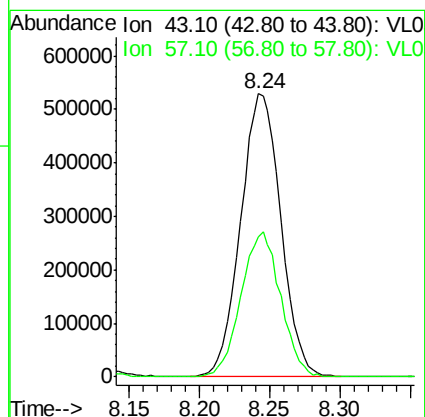
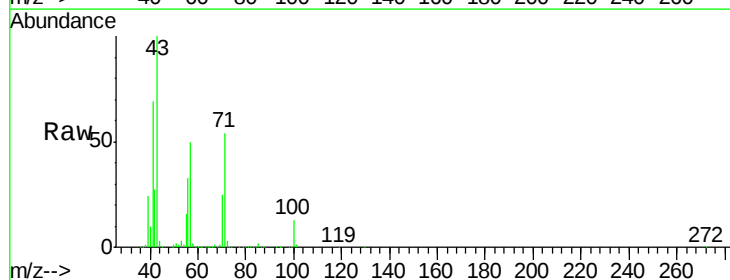
Acq: 27 Mar 2019 10:20

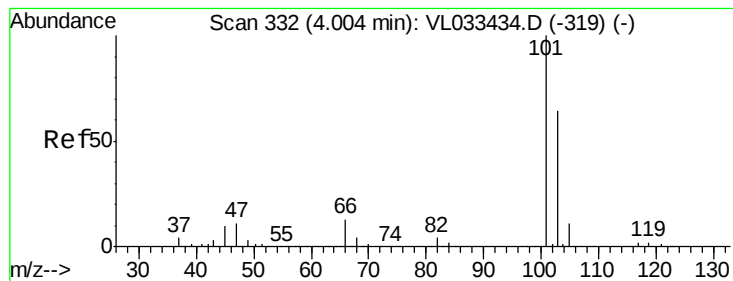
Tgt Ion: 43 Resp: 1050435

Ion Ratio Lower Upper

43 100

57 50.8 40.6 60.8





#11

Trichlorofluoromethane

Concen: 9.134 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

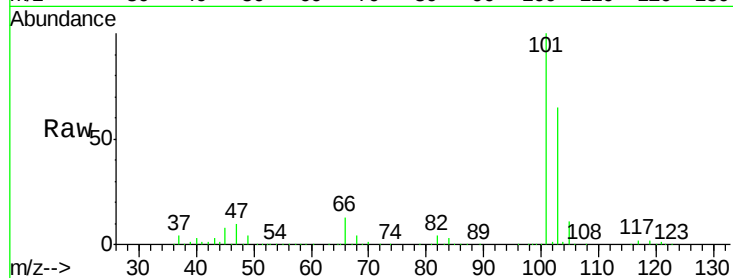
ClientSampleId :

Tot Ion:101 Resp: 1394375

Ion Ratio Lower Upper

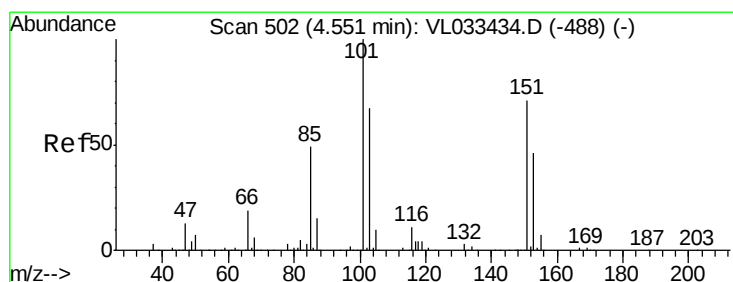
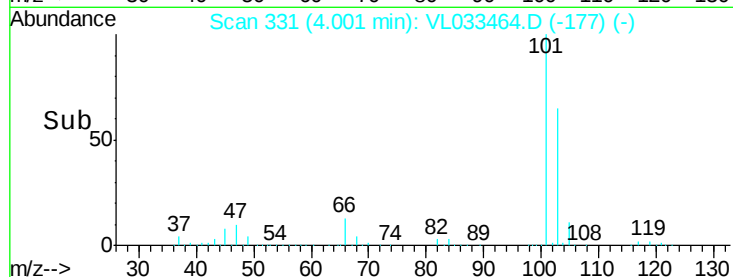
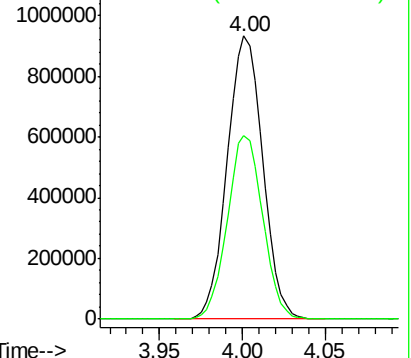
101 100

103 64.9 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.403 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033464.D

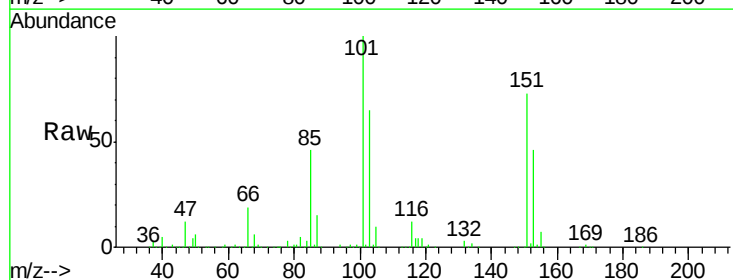
Acq: 27 Mar 2019 10:20

Tgt Ion:101 Resp: 964184

Ion Ratio Lower Upper

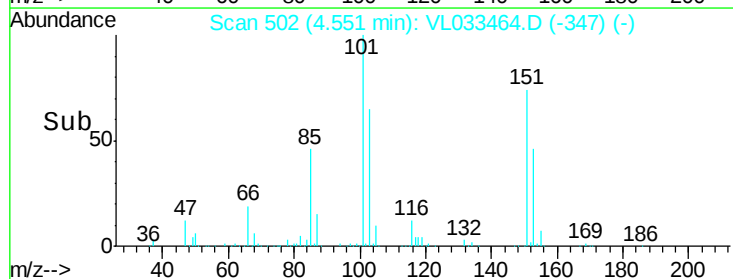
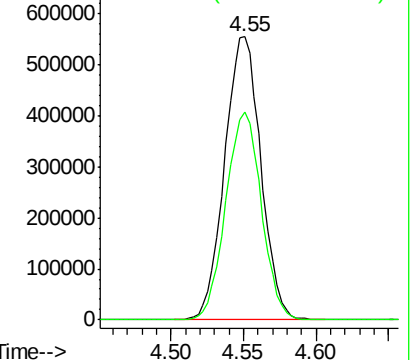
101 100

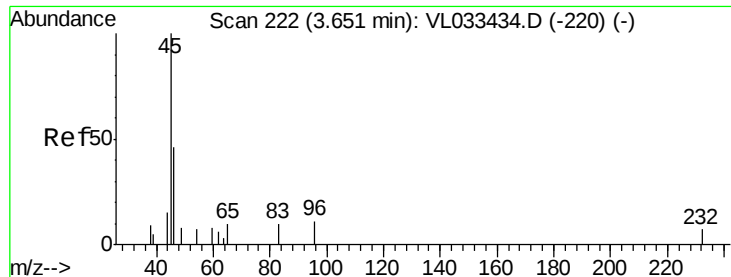
151 72.3 57.7 86.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 10.715 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.01 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

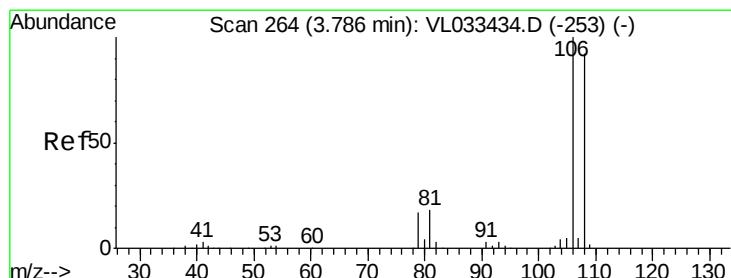
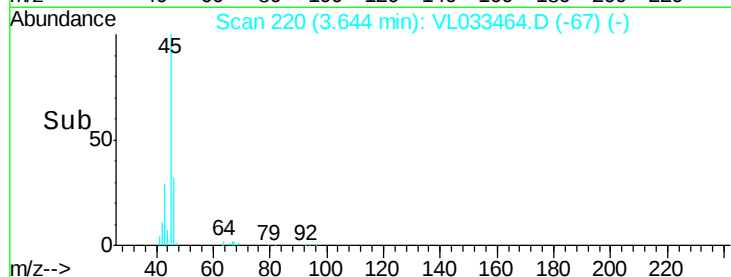
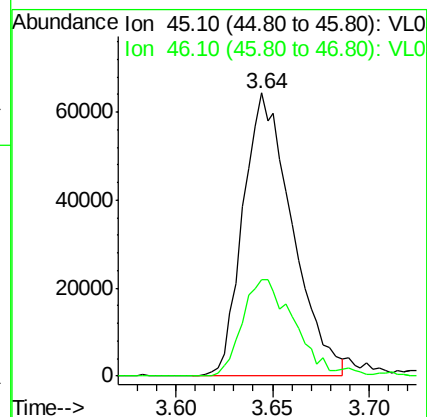
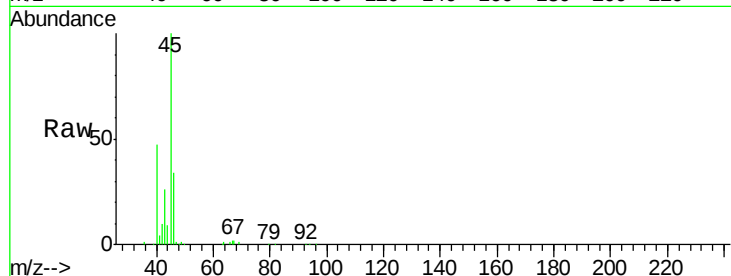
ClientSampleId :

Tot Ion: 45 Resp: 113860

Ion Ratio Lower Upper

45 100

46 37.0 25.4 101.8



#14

Bromoethene

Concen: 9.769 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

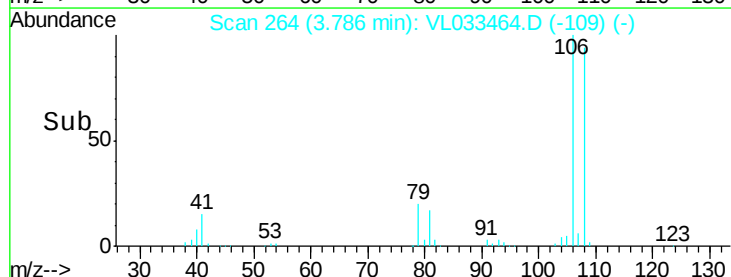
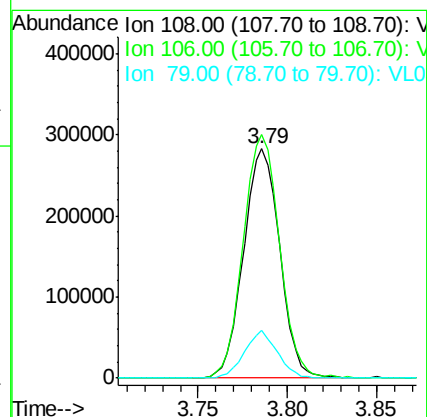
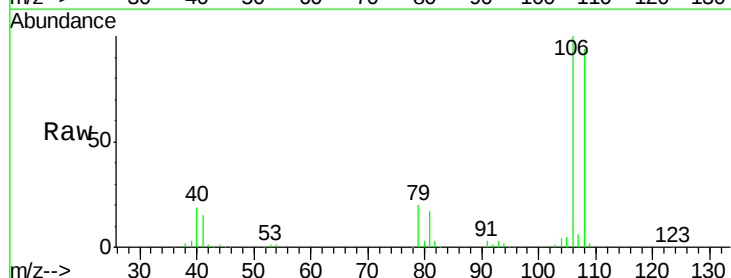
Tgt Ion: 108 Resp: 399520

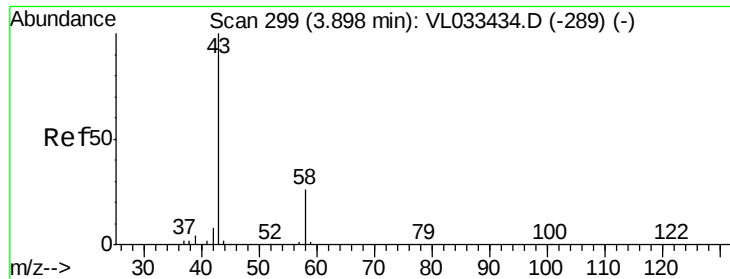
Ion Ratio Lower Upper

108 100

106 106.9 86.4 129.6

79 19.1 15.8 23.8





#15

Acetone

Concen: 8.590 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

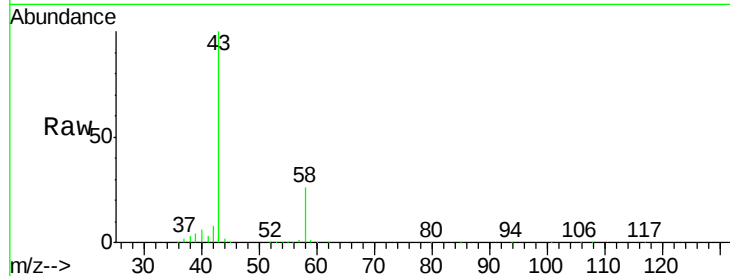
ClientSampleId :

Tot Ion: 43 Resp: 877254

Ion Ratio Lower Upper

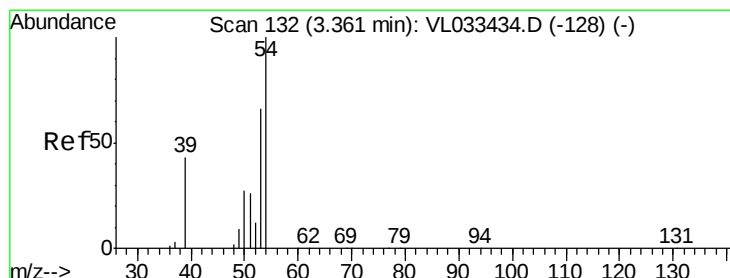
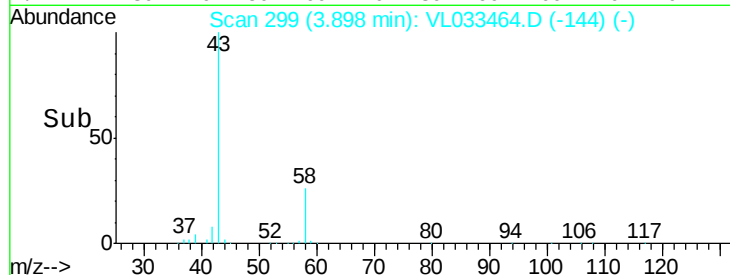
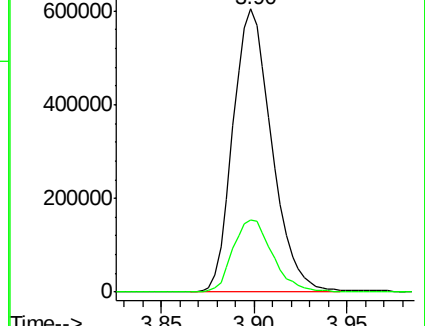
43 100

58 26.4 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: 10.257 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033464.D

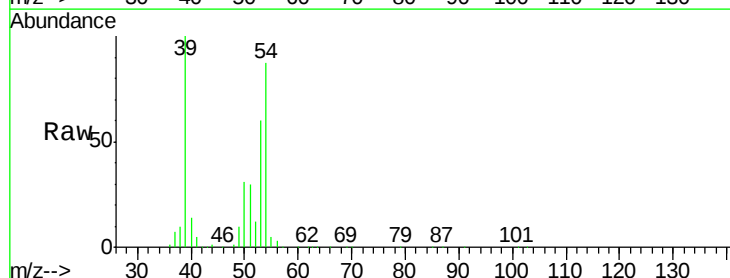
Acq: 27 Mar 2019 10:20

Tgt Ion: 39 Resp: 415468

Ion Ratio Lower Upper

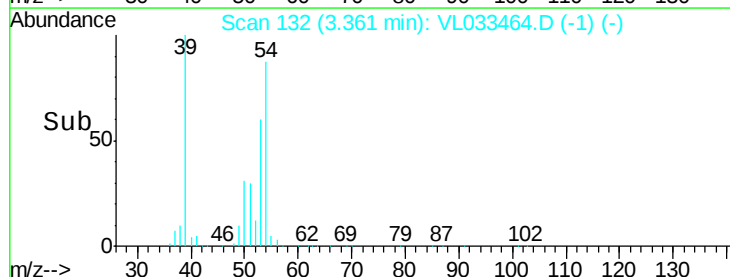
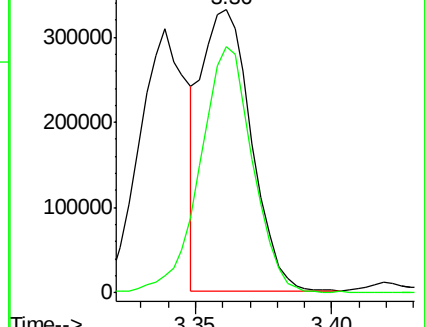
39 100

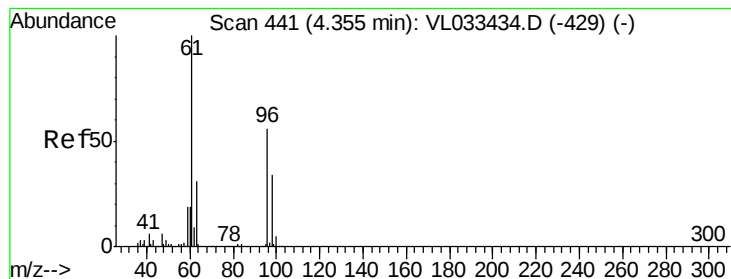
54 93.8 69.4 104.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 10.273 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

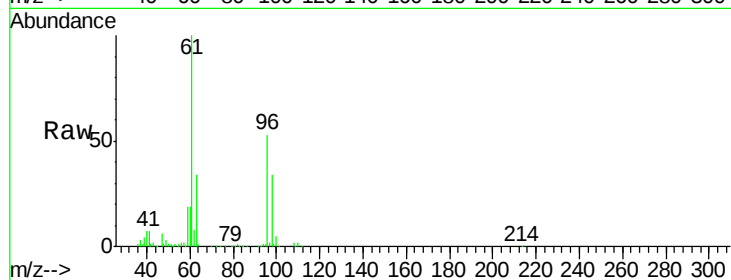
ClientSampled :

Tot Ion: 59 Resp: 192899

Ion Ratio Lower Upper

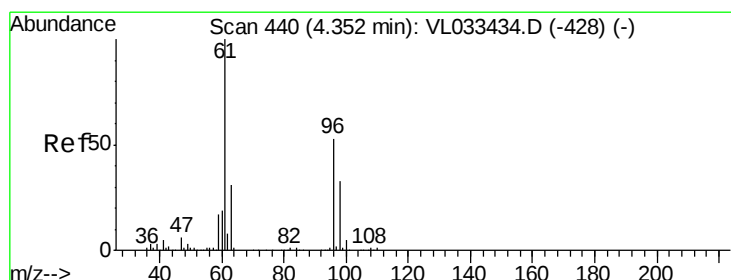
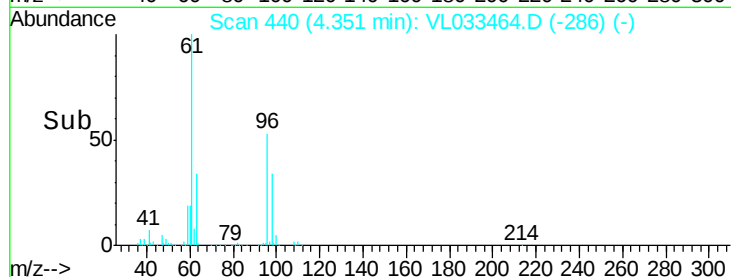
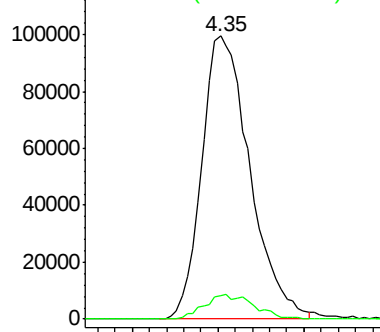
59 100

57 9.0 7.8 11.8



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 9.700 ppbv

RT: 4.35 min Scan# 439

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

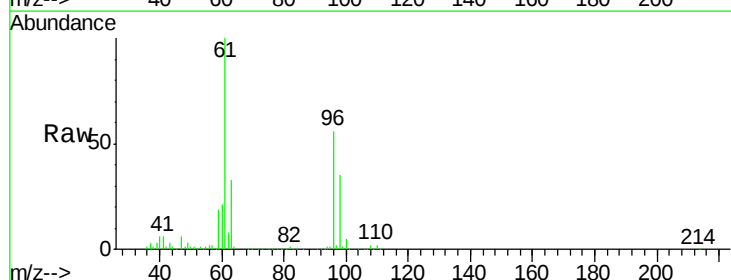
Tgt Ion: 96 Resp: 427230

Ion Ratio Lower Upper

96 100

61 178.9 149.8 224.6

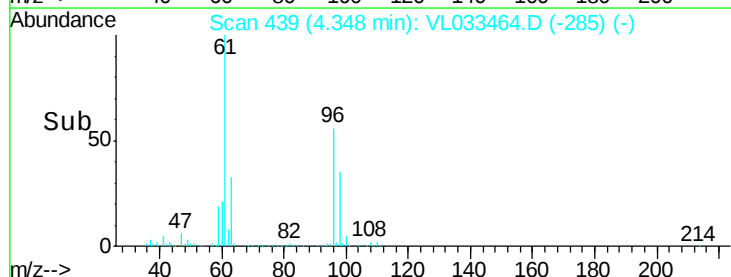
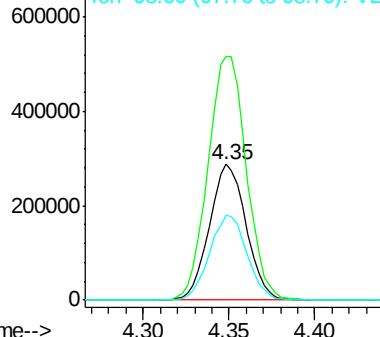
98 62.1 48.7 73.1

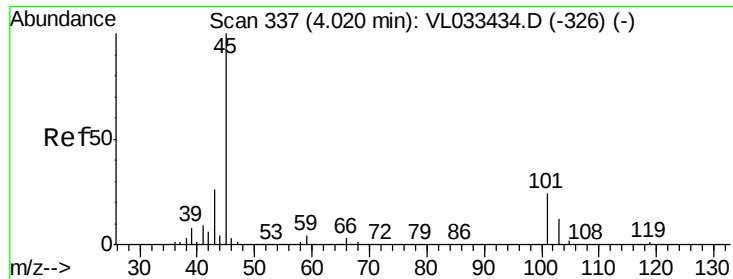


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 10.537 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

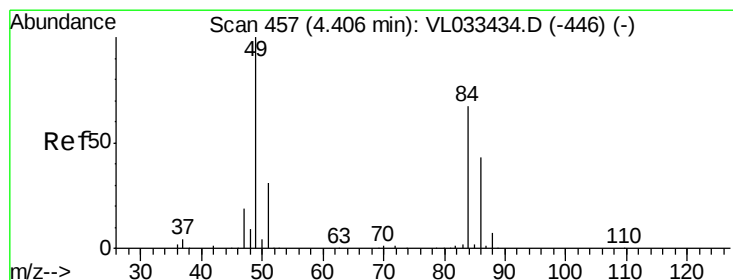
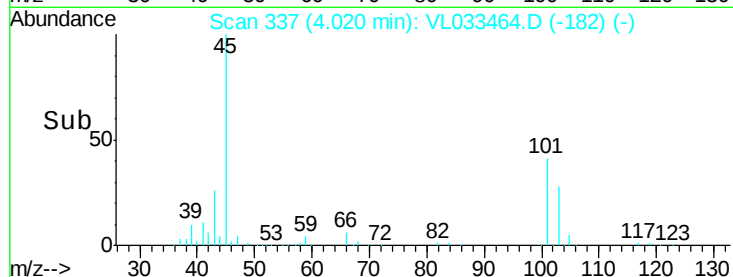
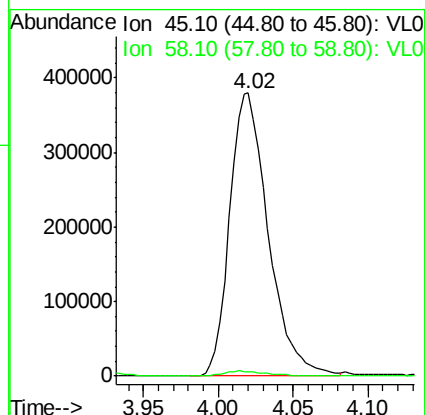
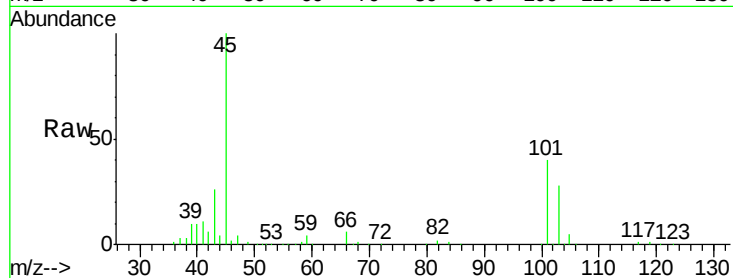
ClientSampleId :

Tot Ion: 45 Resp: 680592

Ion Ratio Lower Upper

45 100

58 2.3 1.4 2.2#



#20

Methylene Chloride

Concen: 8.790 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Tgt Ion: 84 Resp: 381053

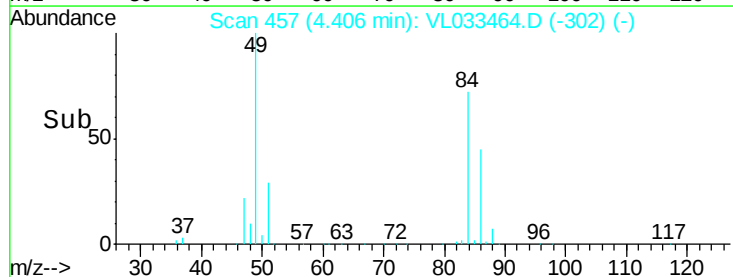
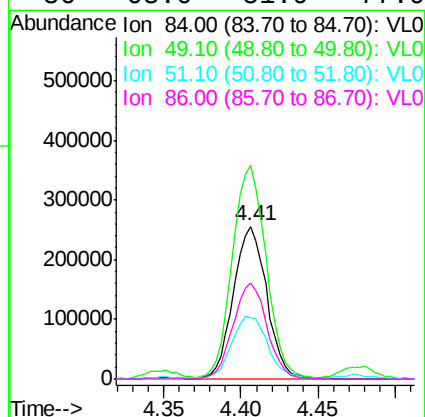
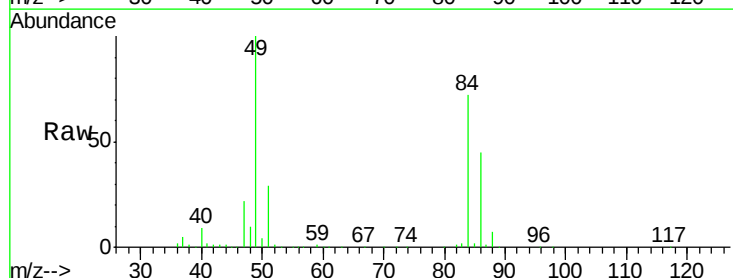
Ion Ratio Lower Upper

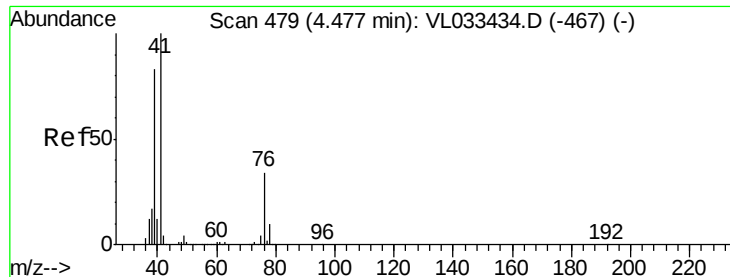
84 100

49 138.4 120.0 180.0

51 39.9 36.7 55.1

86 63.0 51.9 77.9

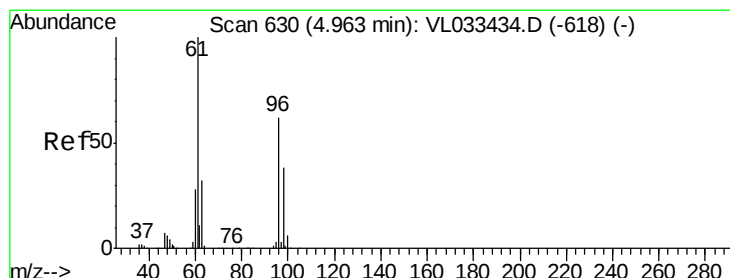
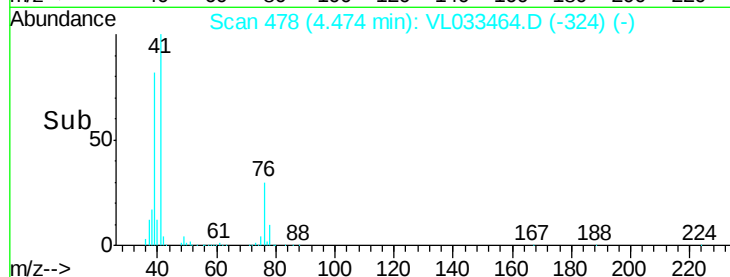
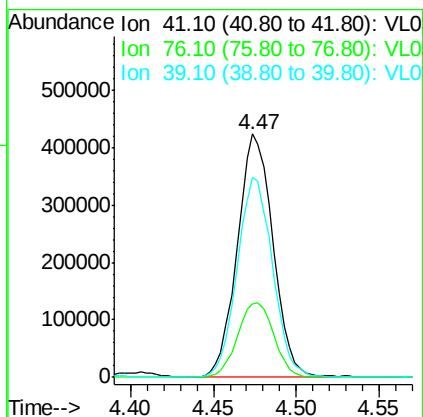
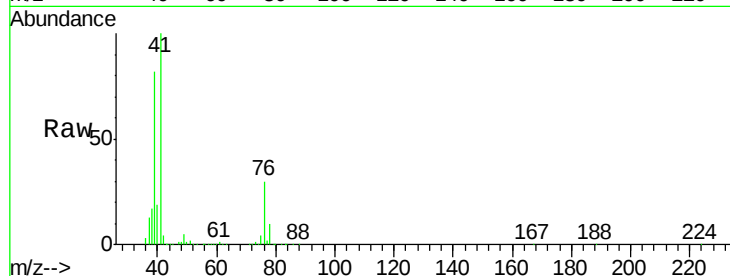




#21
Allvl Chloride
Concen: 9.790 ppbv
RT: 4.47 min Scan# 478
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

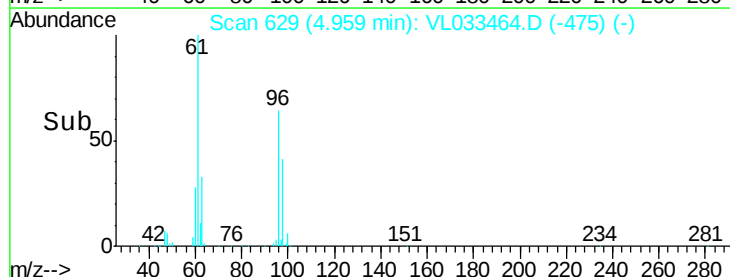
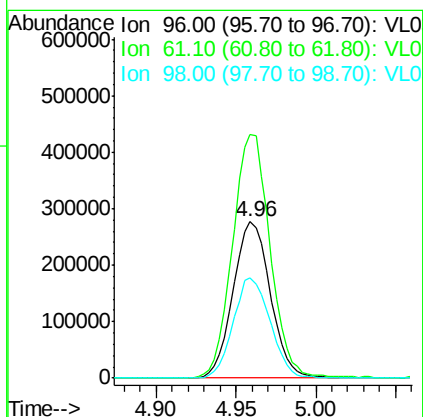
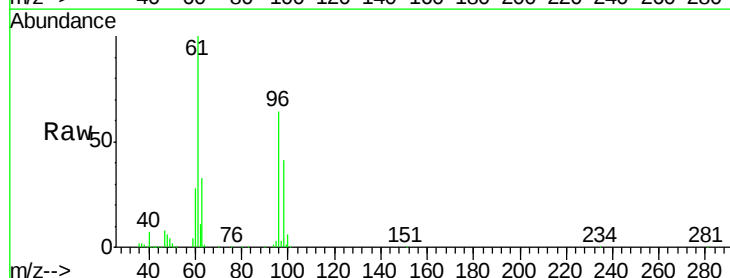
Instrument :
MSVOA_L
ClientSampled :

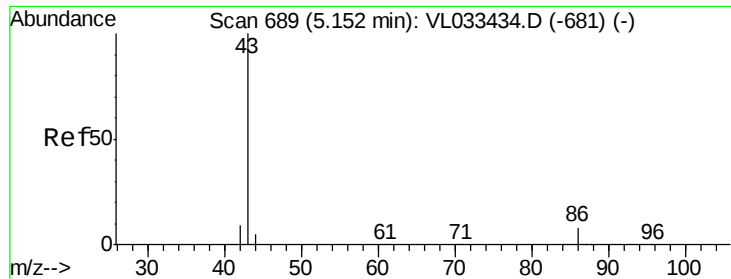
Tot Ion: 41 Resp: 632020
Ion Ratio Lower Upper
41 100
76 31.5 25.4 38.2
39 82.2 65.3 97.9



#22
trans-1,2-Dichloroethene
Concen: 9.525 ppbv
RT: 4.96 min Scan# 629
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Tgt Ion: 96 Resp: 437673
Ion Ratio Lower Upper
96 100
61 155.9 128.9 193.3
98 63.8 49.5 74.3





#23

Vinyl Acetate

Concen: 10.033 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleID :

Tot Ion: 43 Resp: 1458382

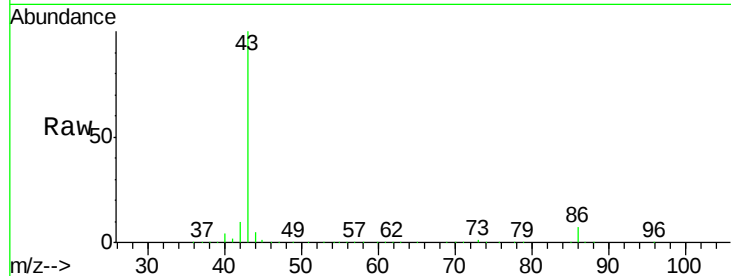
Ion Ratio Lower Upper

43 100

86 7.1 5.6 8.4

42 9.9 8.0 12.0

44 5.1 3.9 5.9

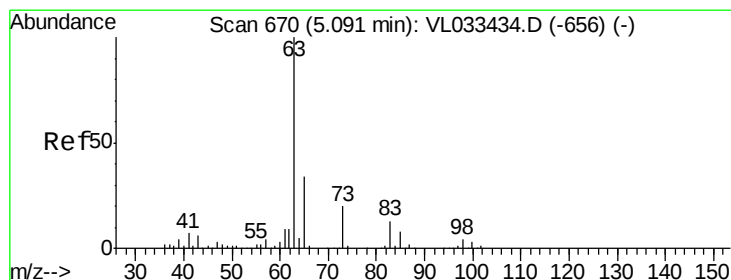
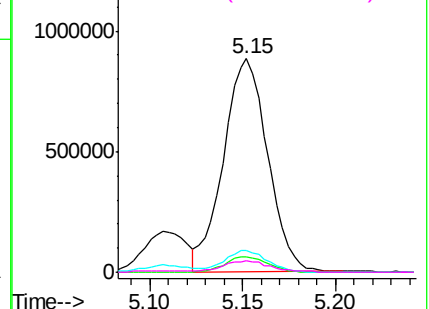
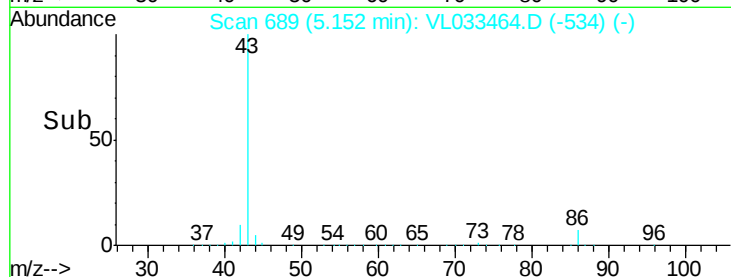


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.329 ppbv

RT: 5.09 min Scan# 669

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

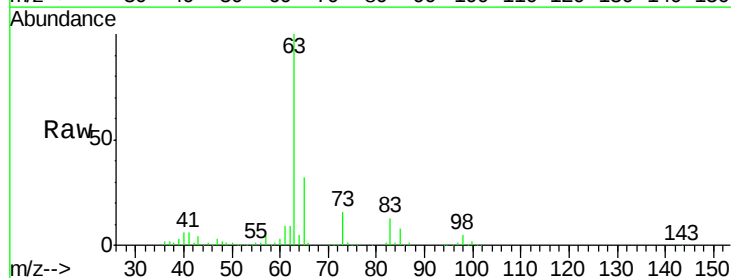
Tgt Ion: 63 Resp: 1030074

Ion Ratio Lower Upper

63 100

98 4.6 2.2 6.6

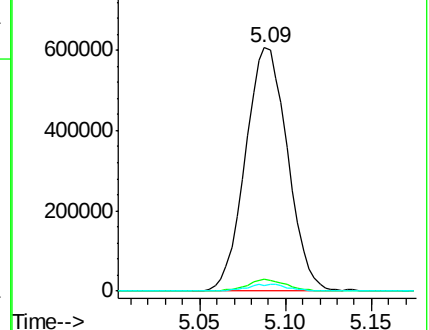
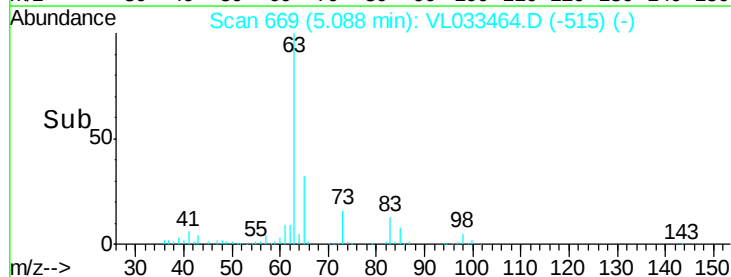
100 2.3 1.5 4.4

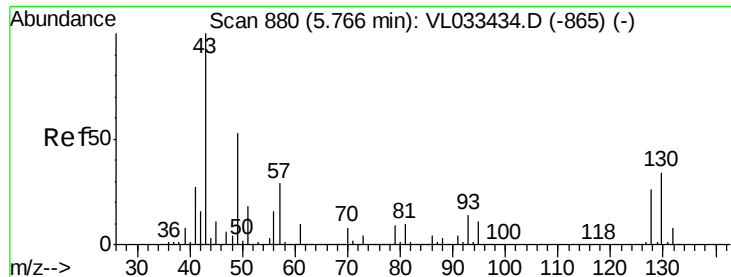


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.458 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 1791936

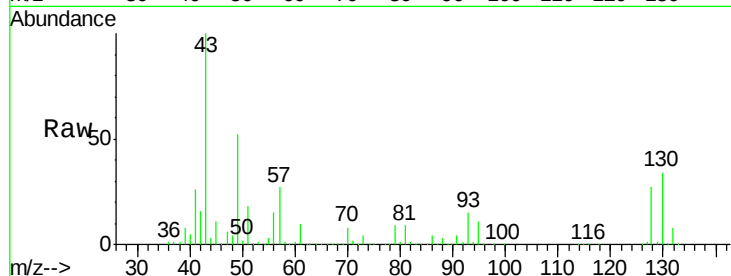
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.6
61	9.1	7.3	10.9
70	6.9	5.6	8.4

43 100

45 9.7 7.8 11.6

61 9.1 7.3 10.9

70 6.9 5.6 8.4

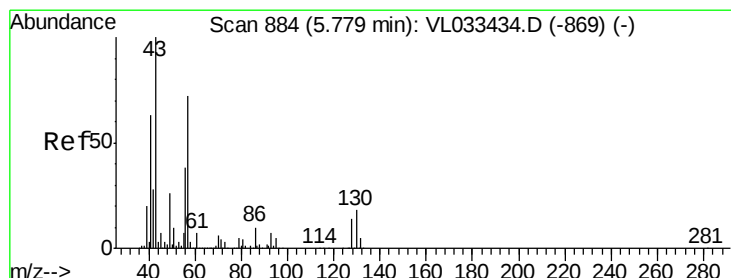
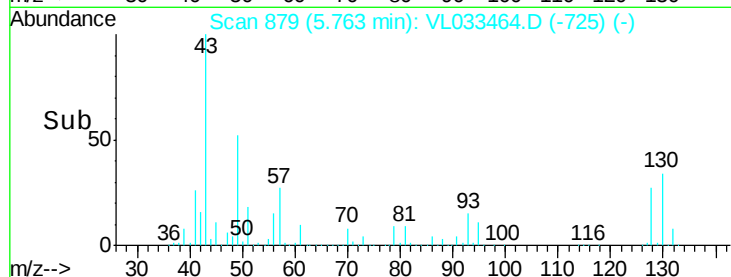
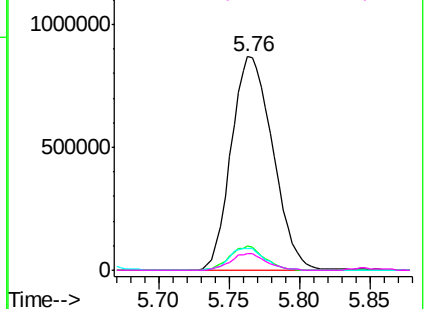


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.509 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Tgt Ion: 57 Resp: 801111

Ion	Ratio	Lower	Upper
57	100		
41	89.8	70.7	106.1
43	223.7	182.6	274.0
56	53.1	42.0	63.0

57 100

41 89.8 70.7 106.1

43 223.7 182.6 274.0

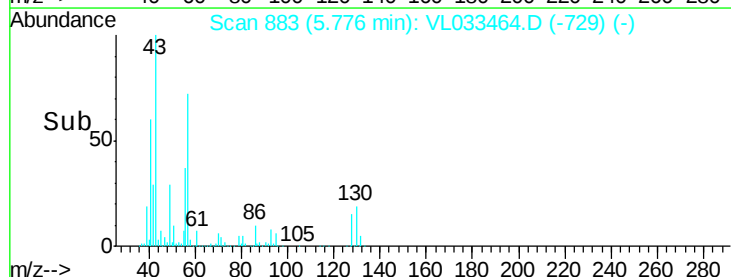
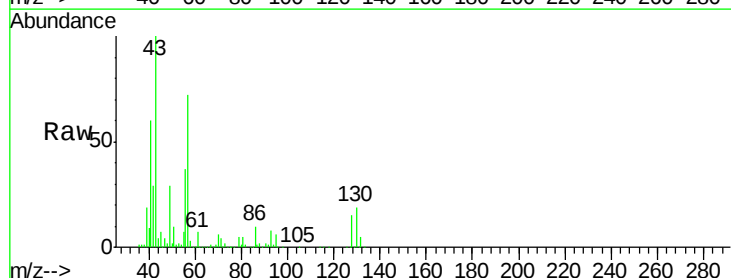
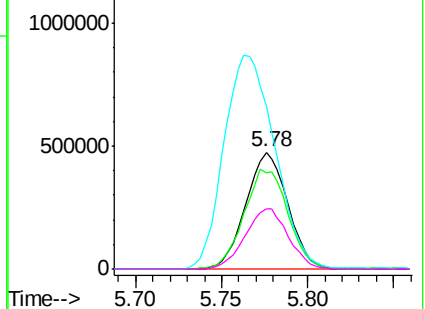
56 53.1 42.0 63.0

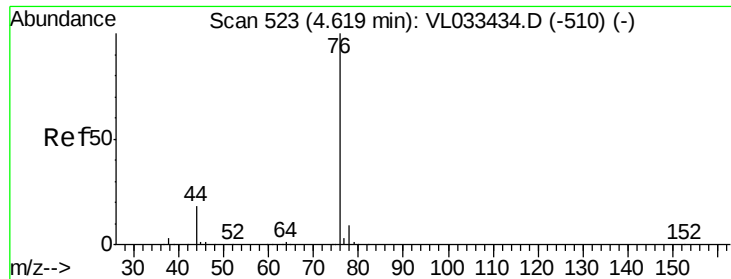
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.556 ppbv

RT: 4.62 min Scan# 522

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampled :

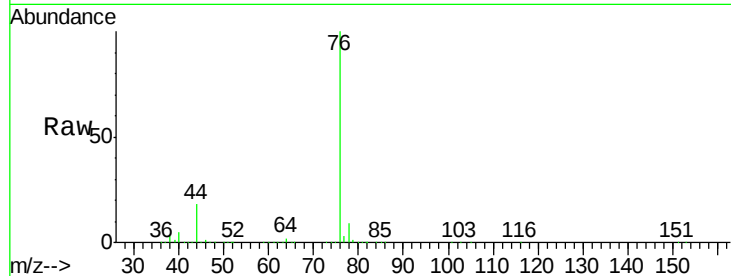
Tot Ion: 76 Resp: 1057549

Ion Ratio Lower Upper

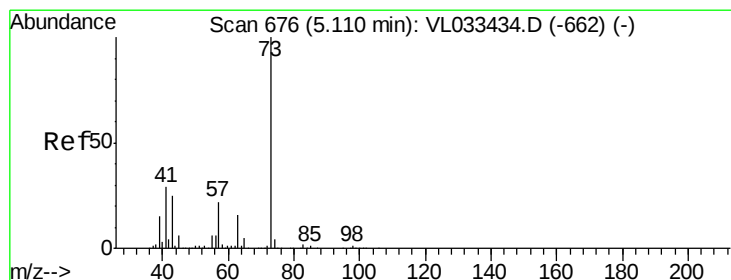
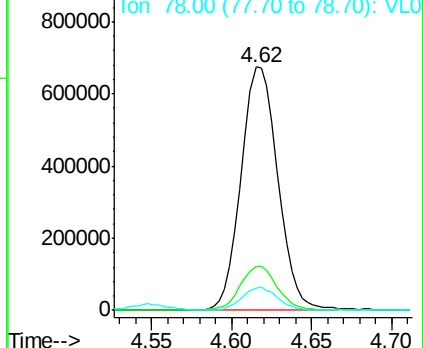
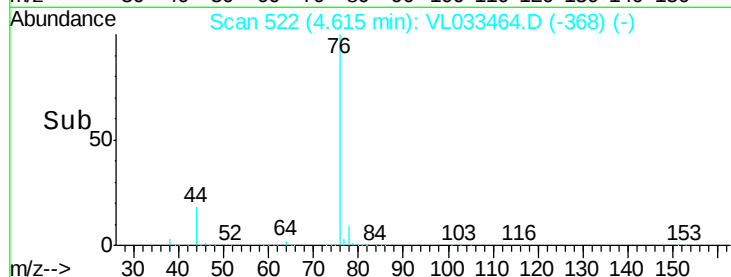
76 100

44 18.2 14.8 22.2

78 9.3 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.839 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL033464.D

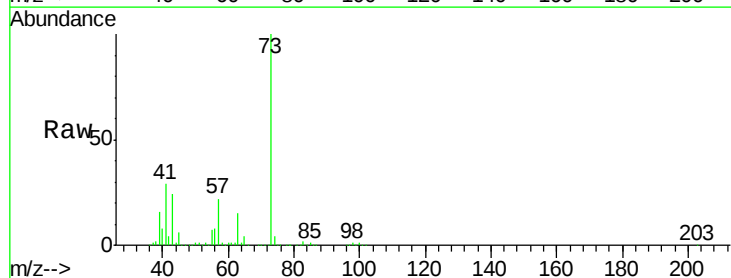
Acq: 27 Mar 2019 10:20

Tgt Ion: 73 Resp: 1193849

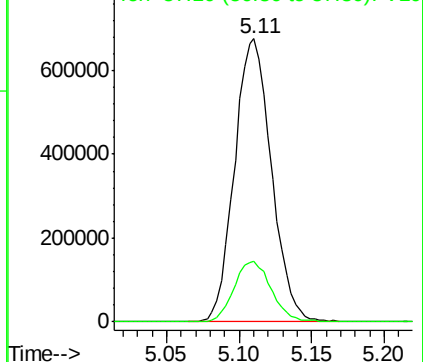
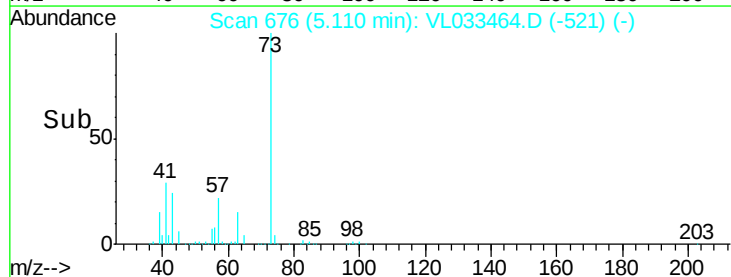
Ion Ratio Lower Upper

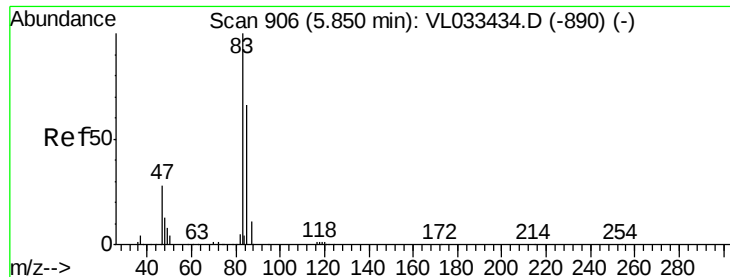
73 100

57 21.8 17.4 26.2



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





#29

Chloroform

Concen: 9.371 ppbv

RT: 5.85 min Scan# 905

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

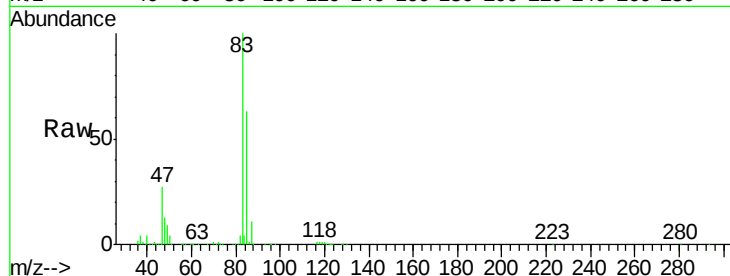
ClientSampleId :

Tot Ion: 83 Resp: 1353297

Ion Ratio Lower Upper

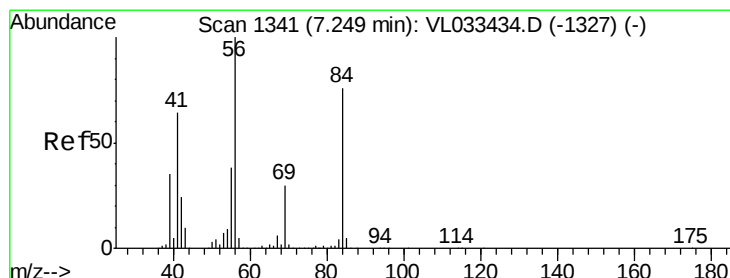
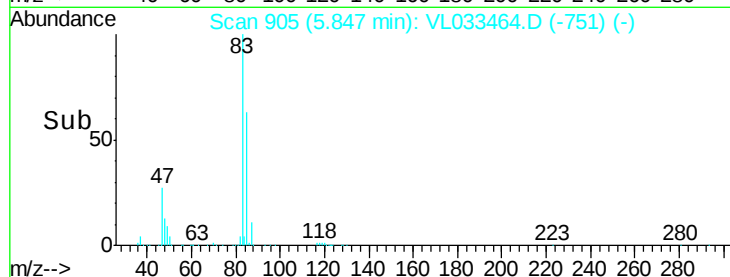
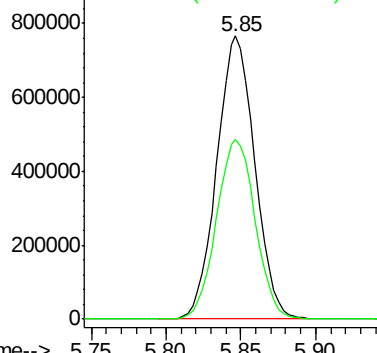
83 100

85 63.3 52.6 79.0



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 10.071 ppbv

RT: 7.25 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

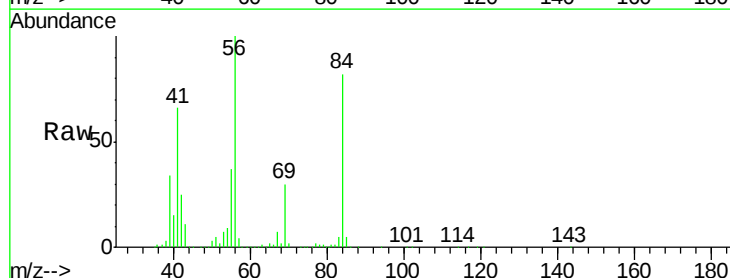
Tgt Ion: 84 Resp: 671174

Ion Ratio Lower Upper

84 100

56 135.5 109.7 164.5

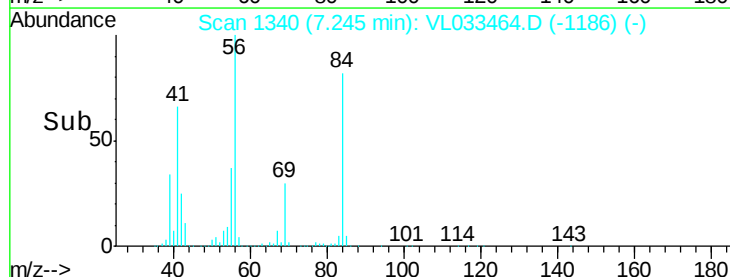
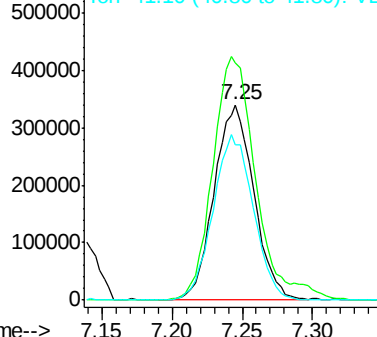
41 85.9 68.2 102.2

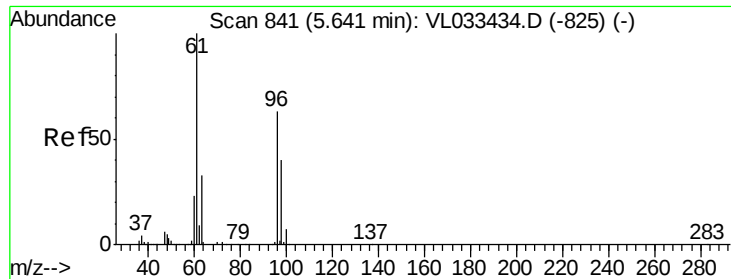


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0



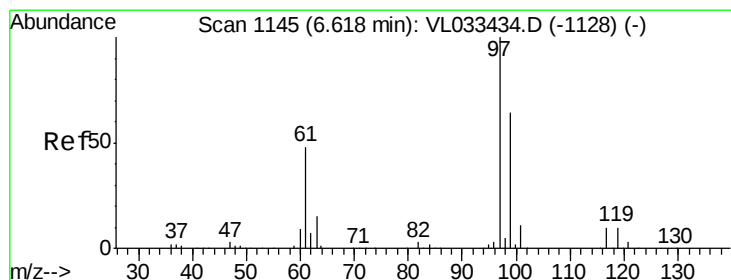
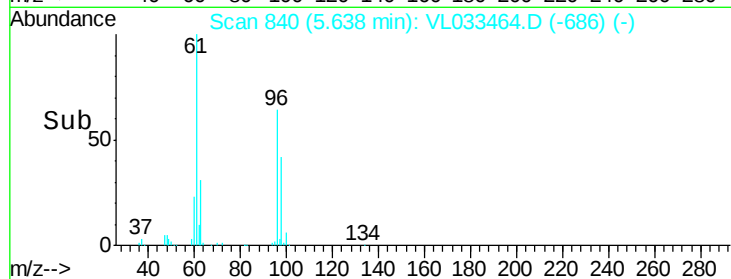
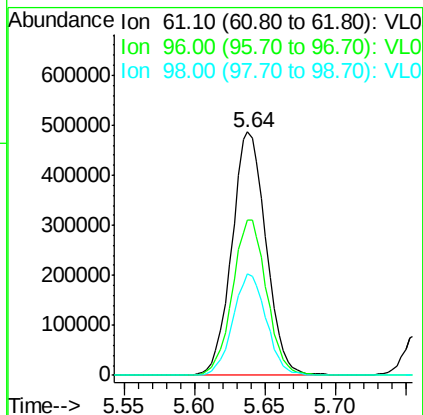
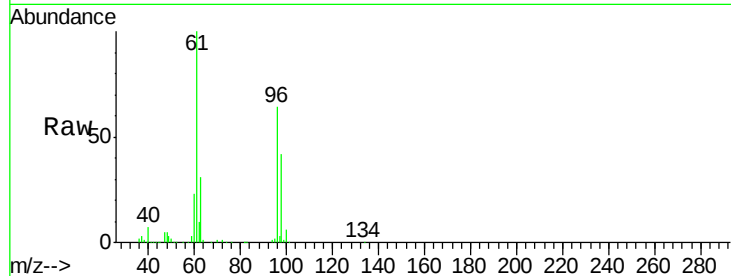


#31

cis-1,2-Dichloroethene
 Concen: 9.870 ppbv
 RT: 5.64 min Scan# 840
 Delta R.T. -0.00 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :

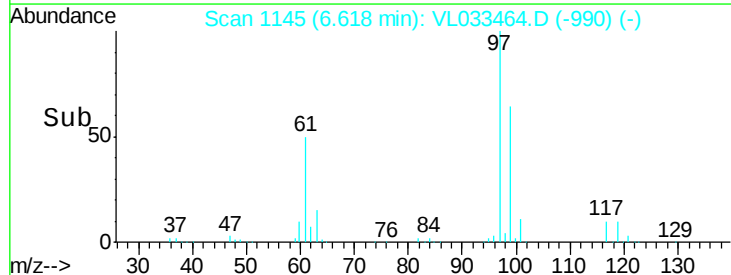
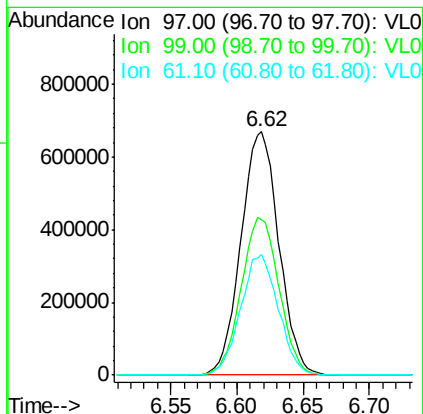
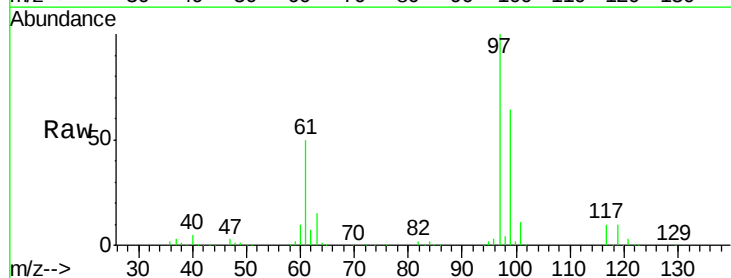
Tot Ion	61.10	Resp	826708
Ion	Ratio	Lower	Upper
61	100		
96	63.7	50.6	76.0
98	41.6	32.2	48.2

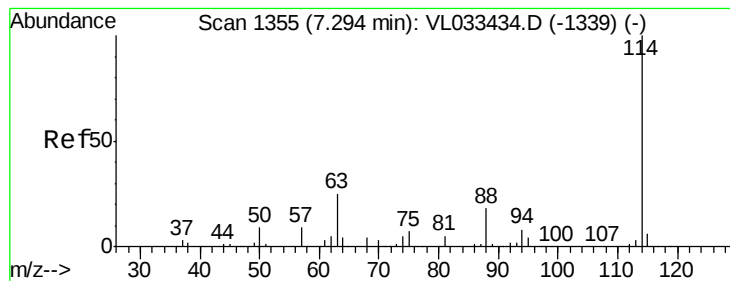


#32

1,1,1-Trichloroethane
 Concen: 9.655 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. -0.00 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Tgt Ion	97	Resp	1327694
Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.5	77.3
61	49.5	38.8	58.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

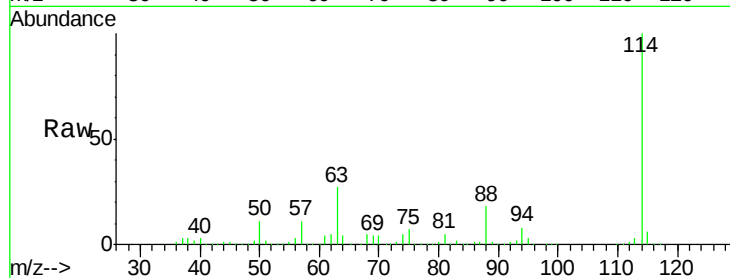
Tot Ion:114 Resp: 1977141

Ion Ratio Lower Upper

114 100

63 26.7 21.5 32.3

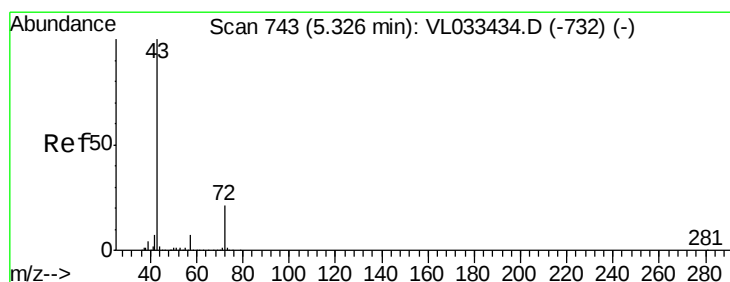
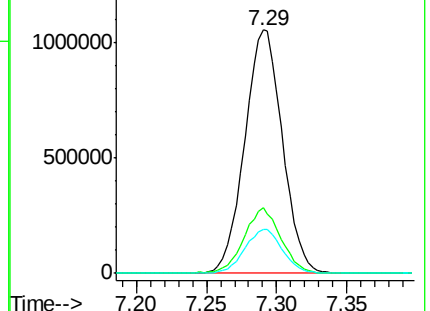
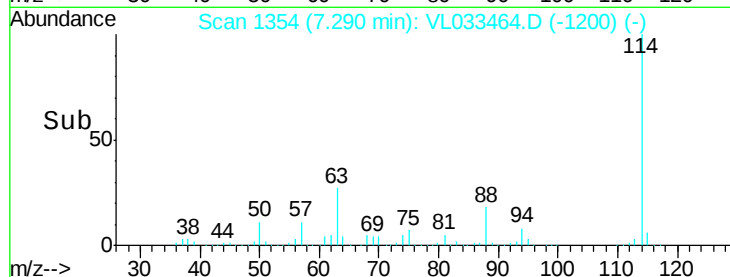
88 18.0 14.5 21.7



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: 9.687 ppbv

RT: 5.33 min Scan# 743

Delta R.T. -0.00 min

Lab File: VL033464.D

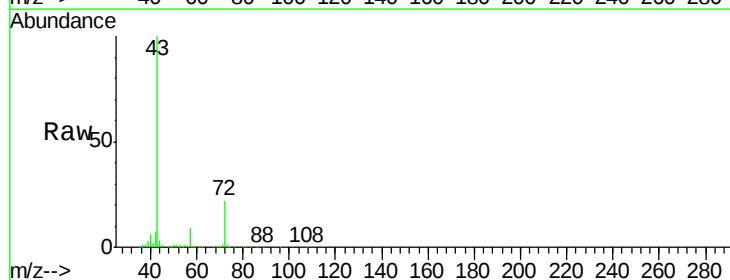
Acq: 27 Mar 2019 10:20

Tgt Ion: 43 Resp: 1150644

Ion Ratio Lower Upper

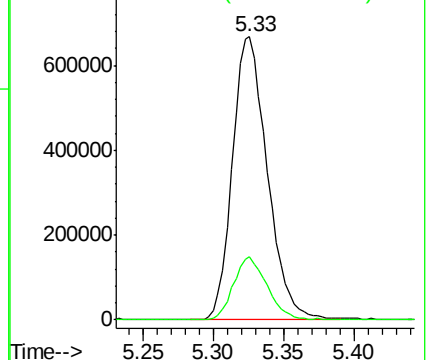
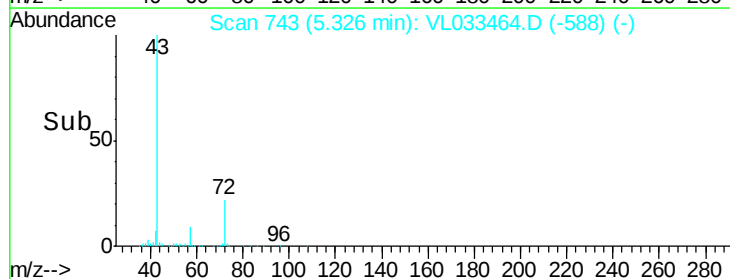
43 100

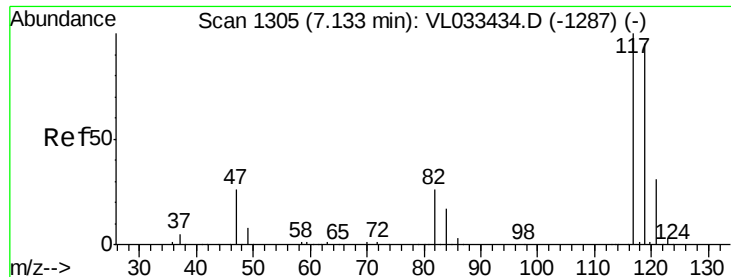
72 21.7 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.302 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

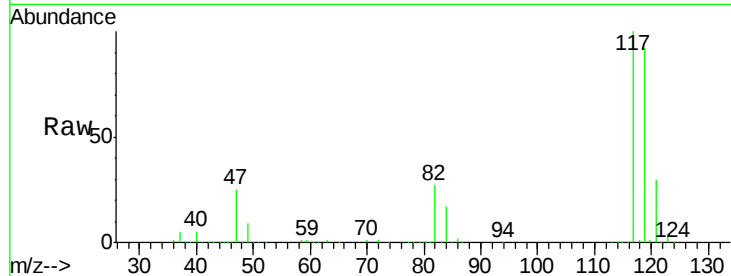
Tot Ion:117 Resp: 1442742

Ion Ratio Lower Upper

117 100

119 91.5 75.8 113.8

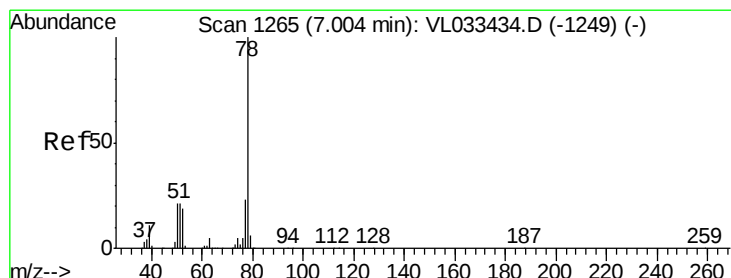
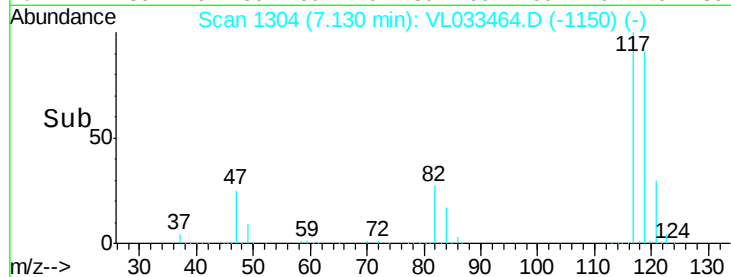
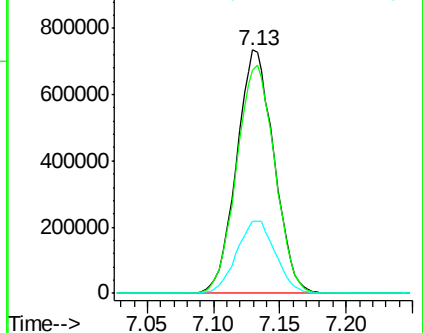
121 29.7 24.7 37.1



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: 9.973 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

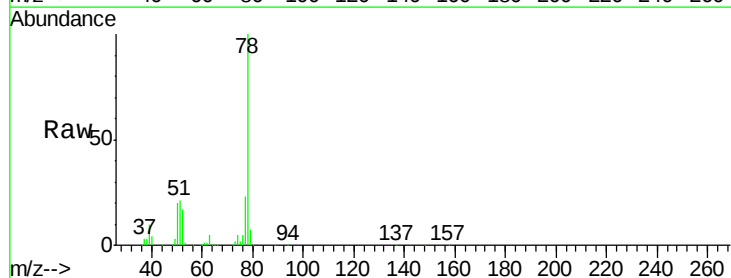
Tgt Ion: 78 Resp: 1654521

Ion Ratio Lower Upper

78 100

77 23.1 18.1 27.1

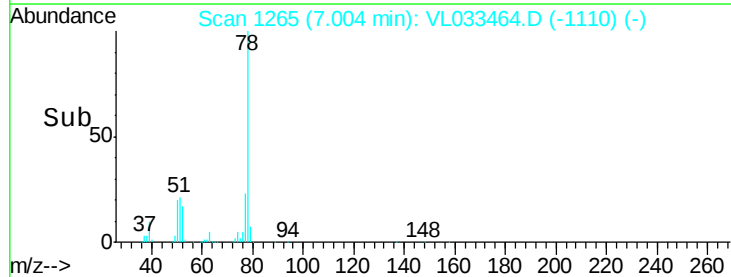
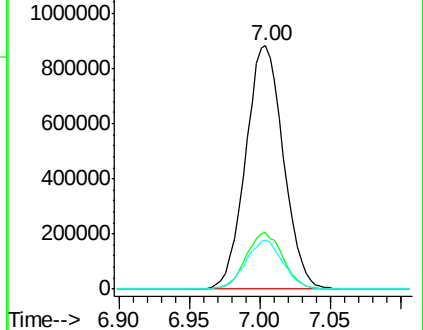
50 20.2 16.7 25.1

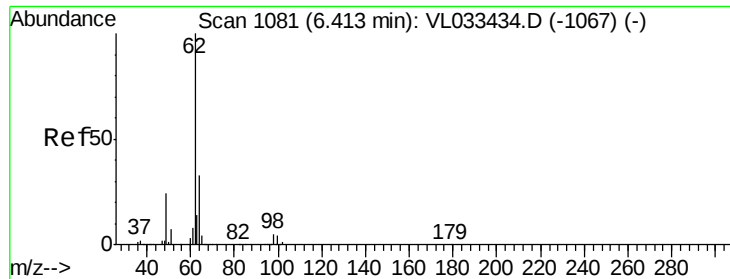


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 9.489 ppbv

RT: 6.41 min Scan# 1081

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

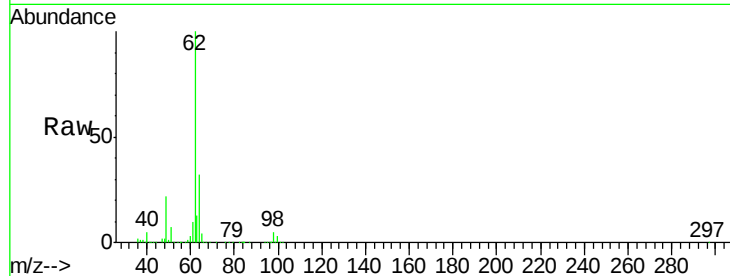
ClientSampleId :

Tot Ion: 62 Resp: 1055155

Ion Ratio Lower Upper

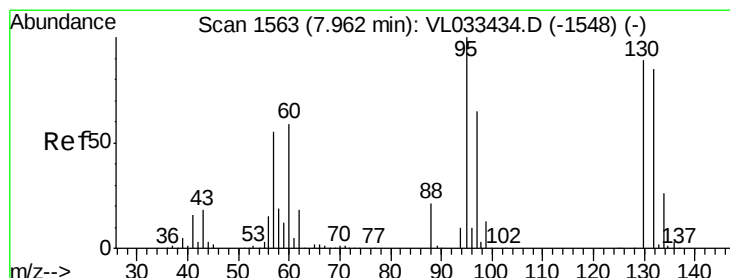
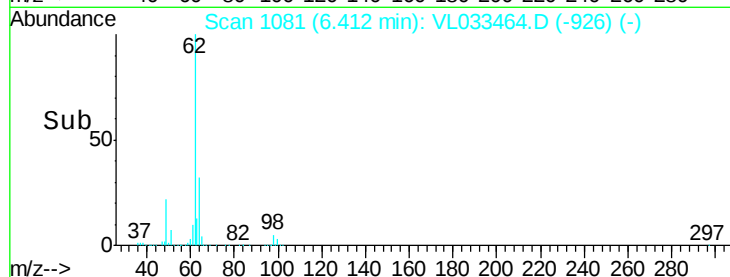
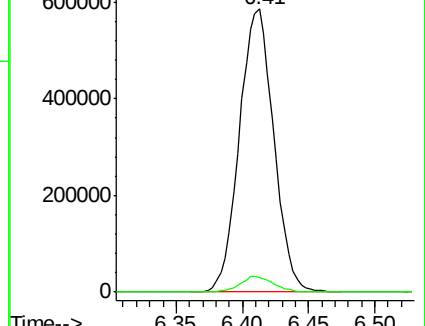
62 100

98 5.4 4.4 6.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 10.593 ppbv

RT: 7.96 min Scan# 1561

Delta R.T. -0.01 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Tgt Ion:130 Resp: 661381

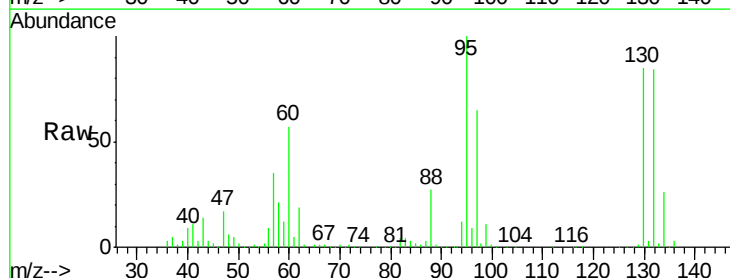
Ion Ratio Lower Upper

130 100

95 117.4 89.8 134.8

132 98.8 76.6 115.0

97 76.7 58.6 88.0

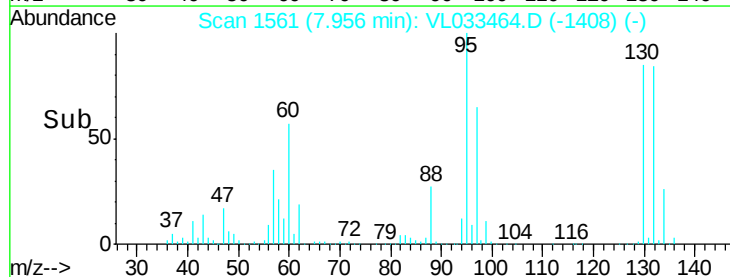
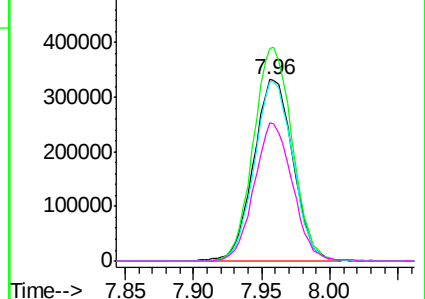


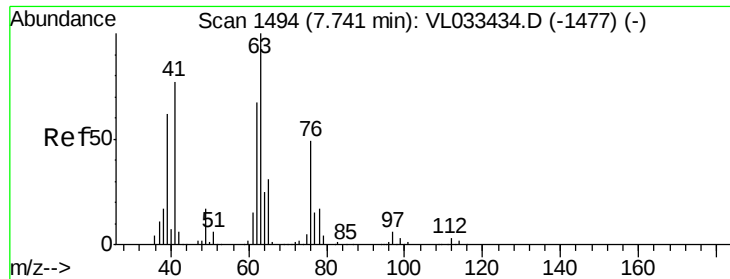
Abundance Ion 130.00 (129.70 to 130.70): V

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: 9.570 ppbv

RT: 7.73 min Scan# 1491

Delta R.T. -0.01 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

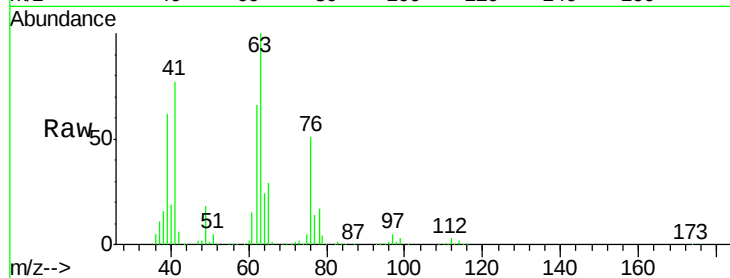
Tot Ion: 63 Resp: 621941

Ion Ratio Lower Upper

63 100

41 76.6 61.2 91.8

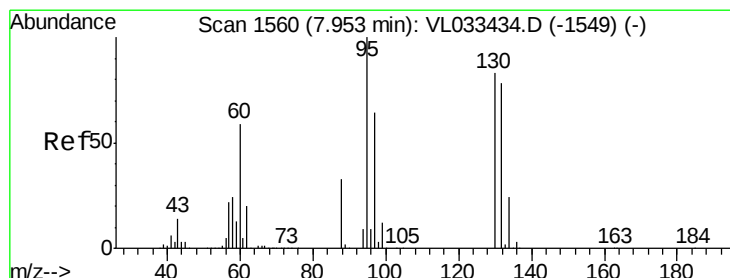
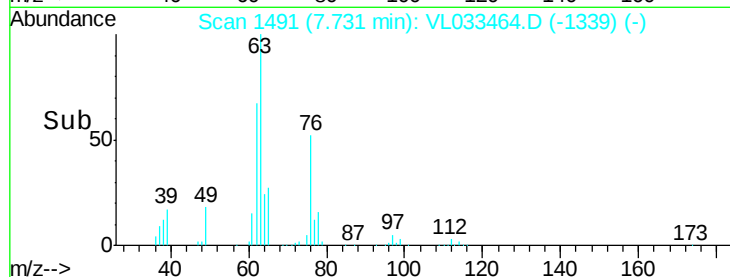
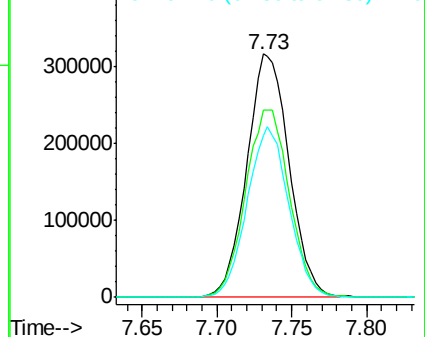
62 66.3 54.0 81.0



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: 4.964 ppbv

RT: 7.95 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Tgt Ion: 88 Resp: 115053

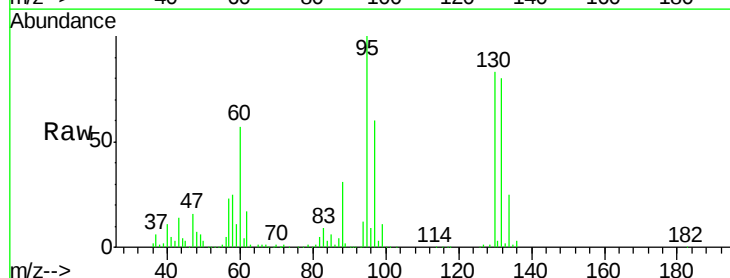
Ion Ratio Lower Upper

88 100

58 0.0 105.6 158.4#

43 0.0 216.7 325.1#

57 0.0 975.0 1462.4#

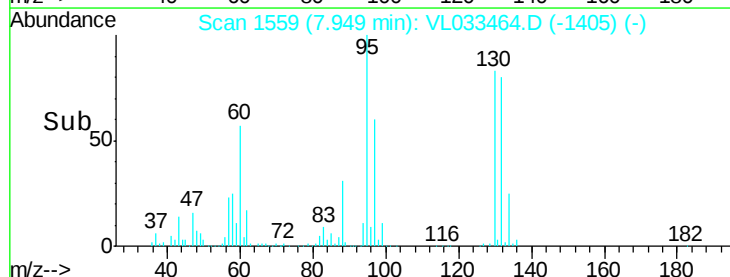
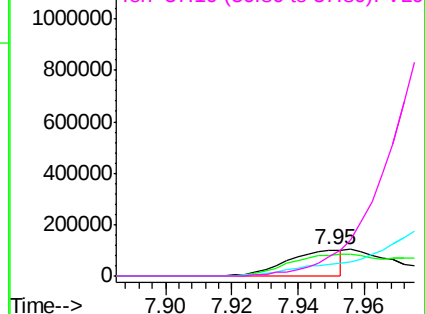


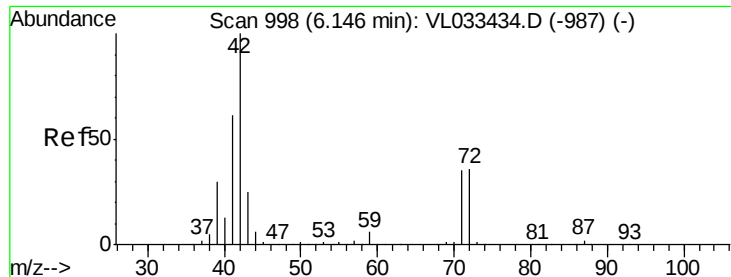
Abundance Ion 88.10 (87.80 to 88.80): VL0

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: 10.033 ppbv

RT: 6.14 min Scan# 997

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampled :

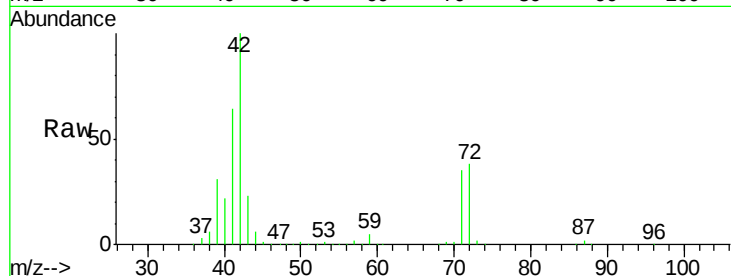
Tot Ion: 42 Resp: 655495

Ion Ratio Lower Upper

42 100

72 40.1 30.2 45.2

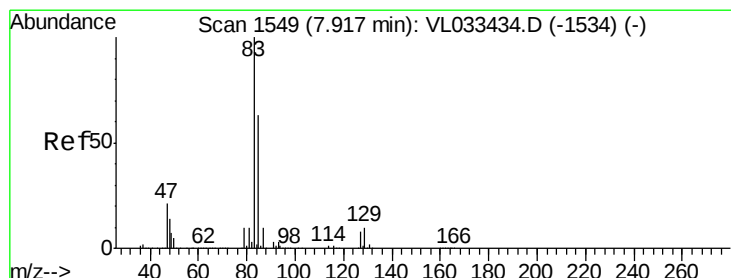
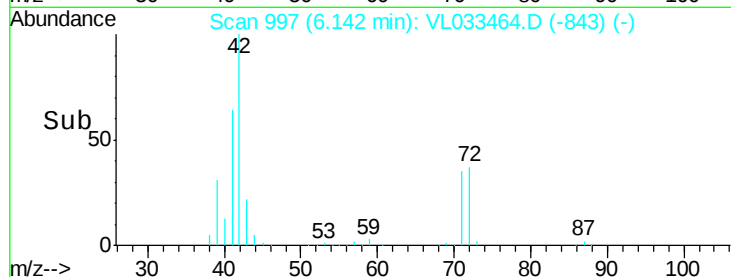
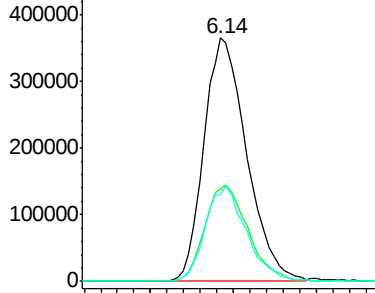
71 37.6 29.4 44.2



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 9.793 ppbv

RT: 7.91 min Scan# 1548

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

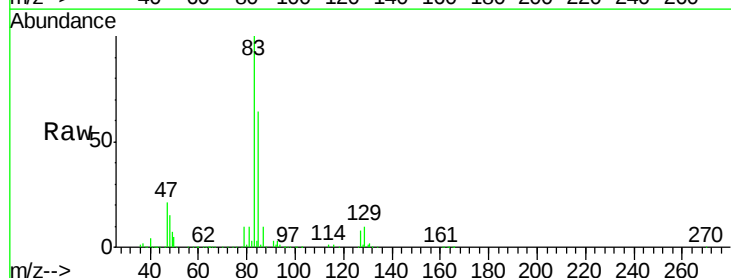
Tgt Ion: 83 Resp: 1483191

Ion Ratio Lower Upper

83 100

85 64.1 50.7 76.1

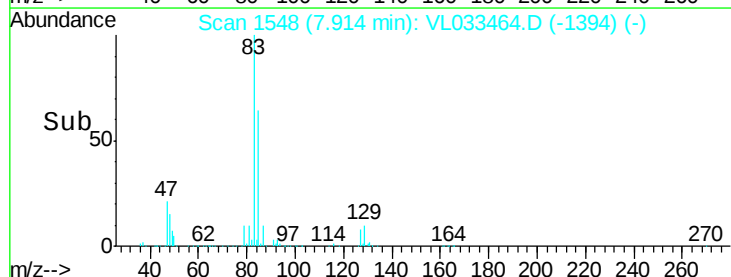
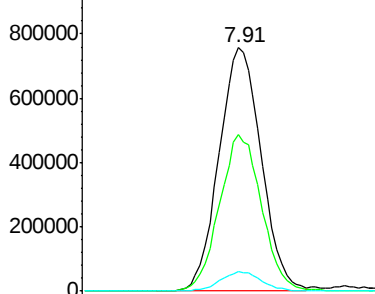
127 7.8 6.6 9.8

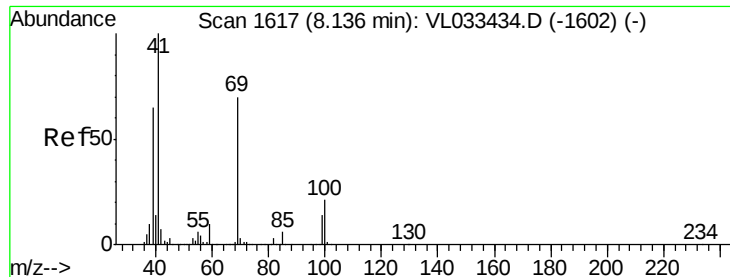


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

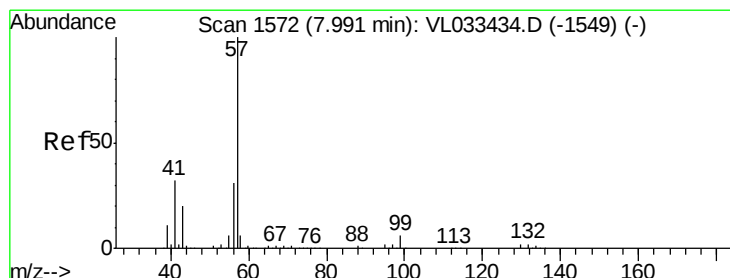
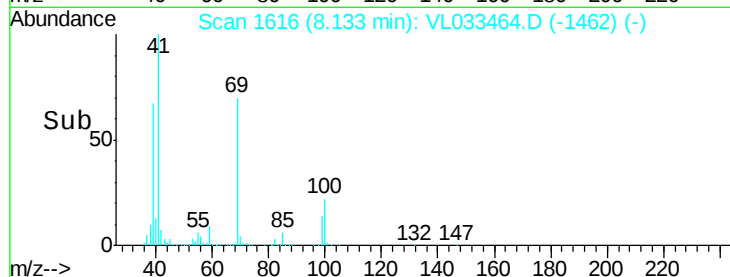
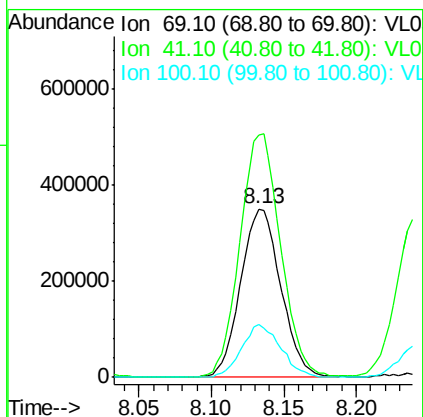
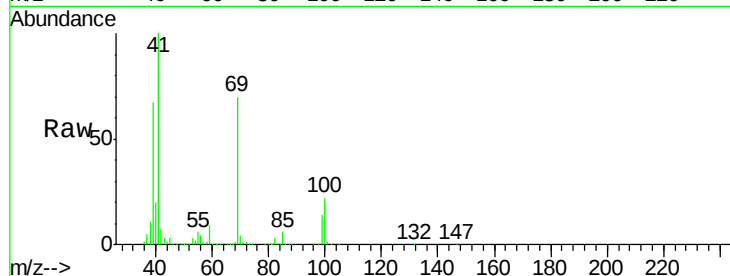




#43
Methvl Methacrilate
Concen: 10.036 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

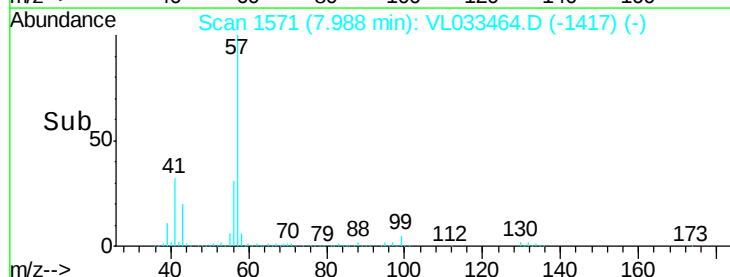
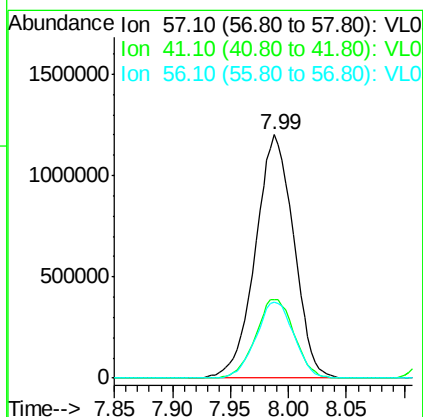
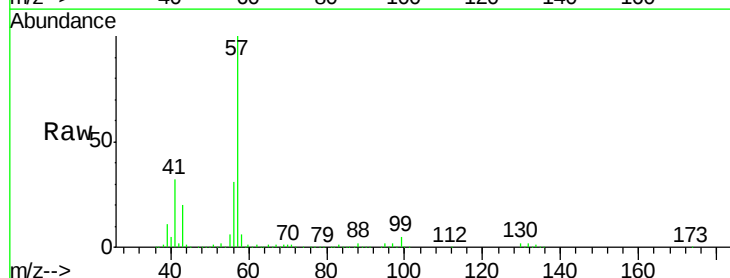
Instrument :
MSVOA_L
ClientSampleId :

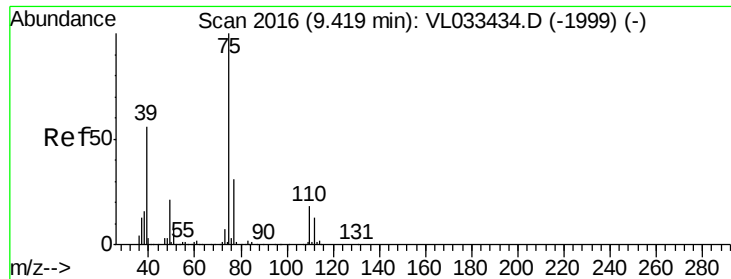
Tot Ion: 69 Resp: 676007
Ion Ratio Lower Upper
69 100
41 146.7 116.6 174.8
100 30.7 24.4 36.6



#44
2,2,4-Trimethylpentane
Concen: 9.520 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Tgt Ion: 57 Resp: 2759809
Ion Ratio Lower Upper
57 100
41 32.9 26.0 39.0
56 31.2 24.6 37.0





#45

t-1,3-Dichloropropene

Concen: 11.154 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.01 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

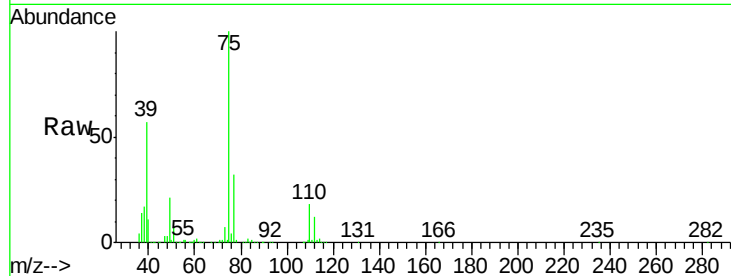
ClientSampled :

Tot Ion: 75 Resp: 922520

Ion Ratio Lower Upper

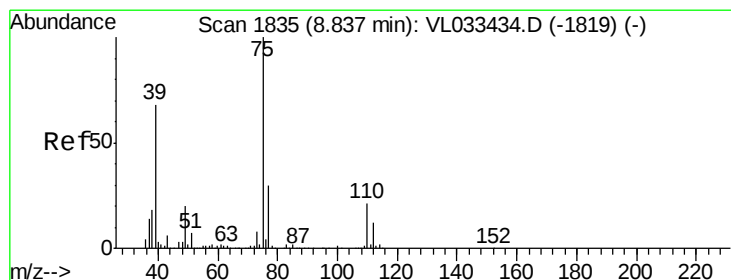
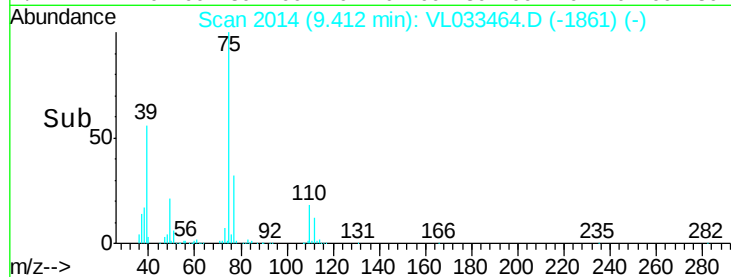
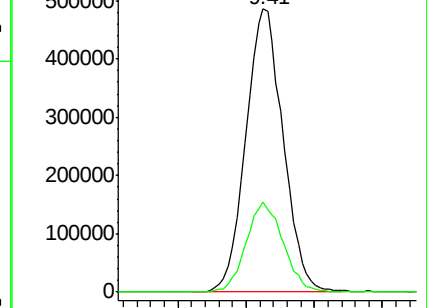
75 100

77 31.7 24.5 36.7



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 10.847 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

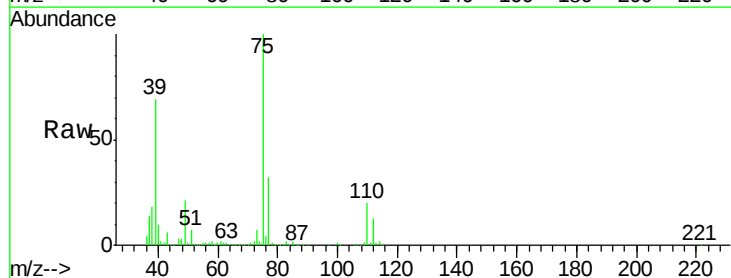
Tgt Ion: 75 Resp: 1047601

Ion Ratio Lower Upper

75 100

39 68.9 54.1 81.1

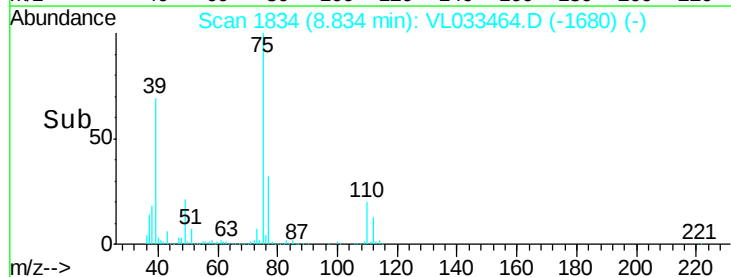
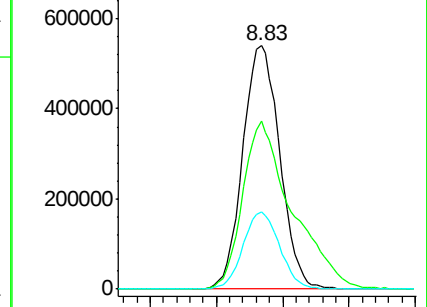
77 31.9 23.9 35.9

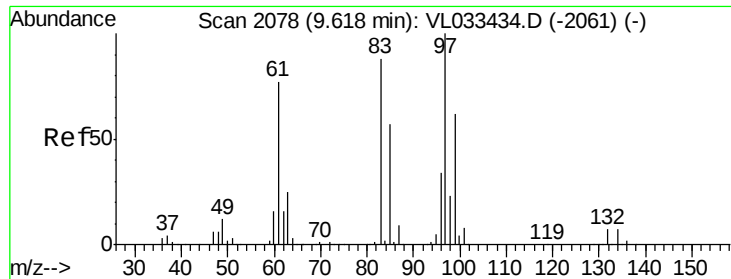


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

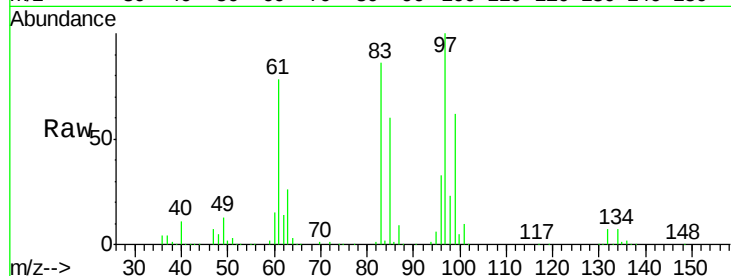




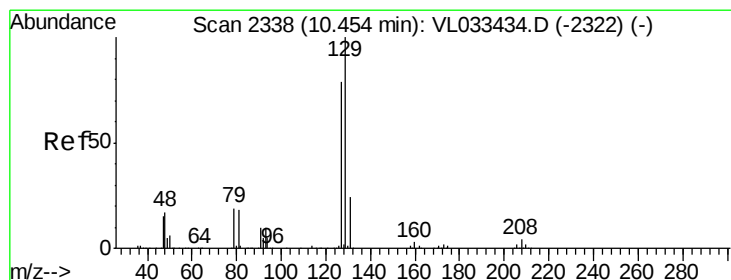
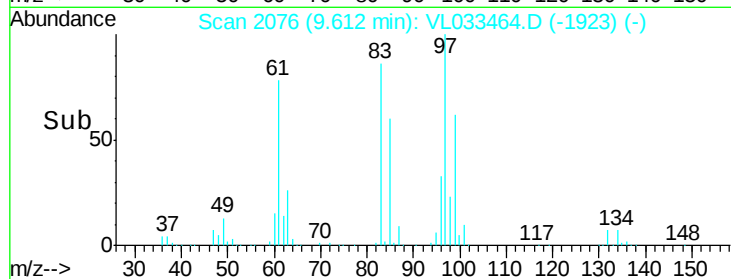
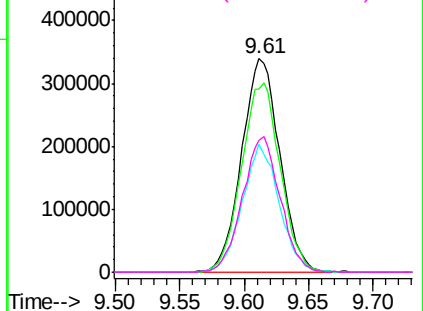
#47
 1,1,2-Trichloroethane
 Concen: 9.518 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.01 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion:	97	Resp:	702328
Ion	Ratio	Lower	Upper
97	100		
83	85.8	70.5	105.7
85	59.7	45.6	68.4
99	61.7	49.4	74.0

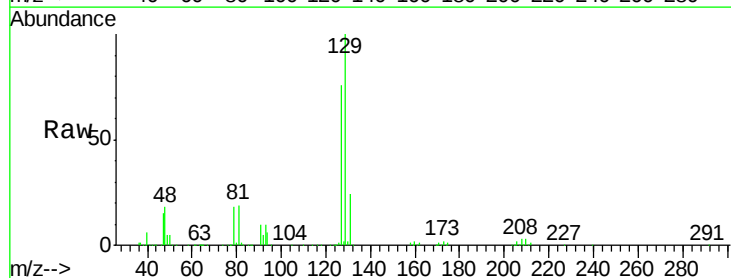


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

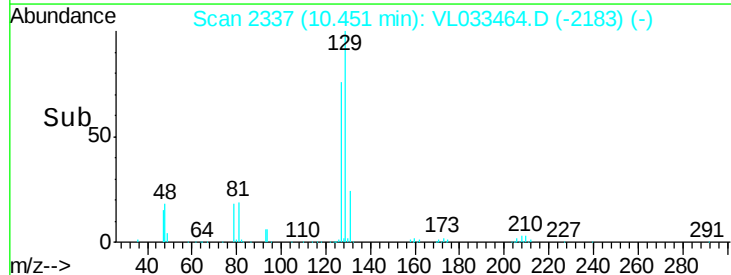
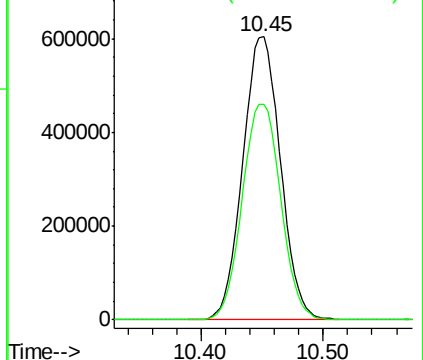


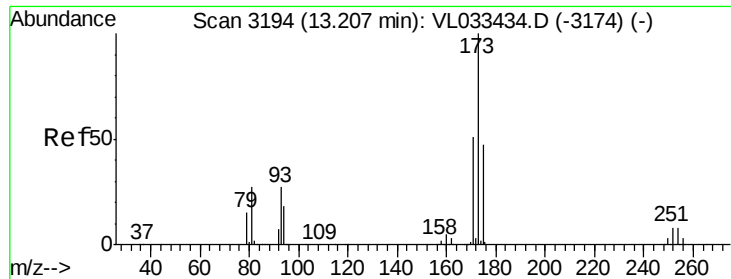
#48
 Dibromochloromethane
 Concen: 10.347 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. -0.00 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Tgt Ion:	129	Resp:	1287864
Ion	Ratio	Lower	Upper
129	100		
127	78.1	39.1	117.2



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 9.923 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. -0.01 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

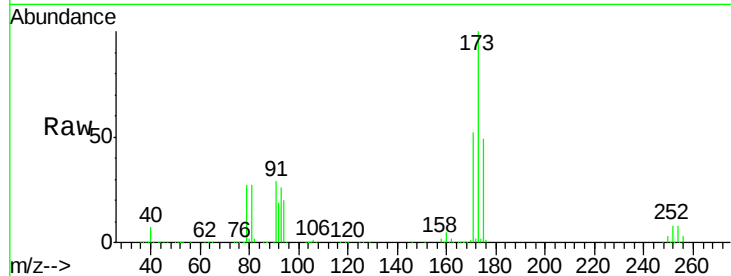
Tot Ion:173 Resp: 1179887

Ion	Ratio	Lower	Upper
173	100		
175	48.9	39.3	58.9
171	51.9	41.2	61.8

173 100

175 48.9 39.3 58.9

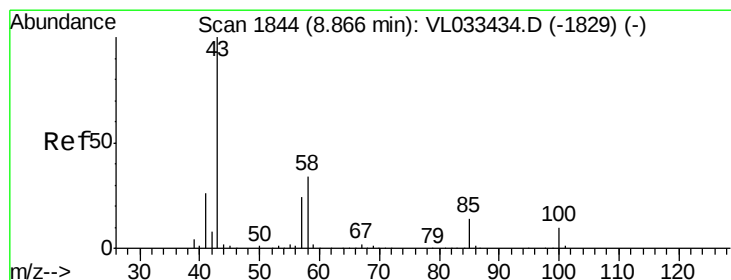
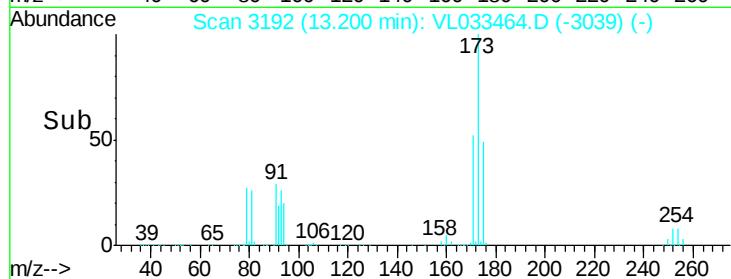
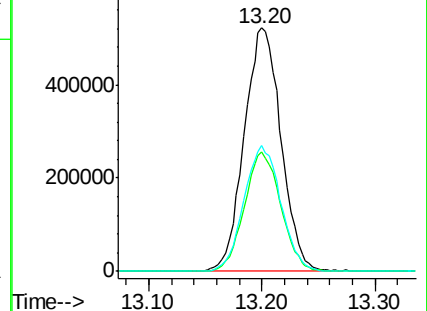
171 51.9 41.2 61.8



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: 9.845 ppbv

RT: 8.87 min Scan# 1844

Delta R.T. -0.00 min

Lab File: VL033464.D

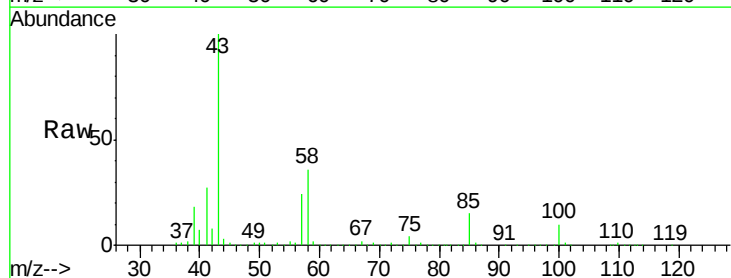
Acq: 27 Mar 2019 10:20

Tgt Ion: 43 Resp: 1712382

Ion	Ratio	Lower	Upper
43	100		
58	35.3	28.0	42.0

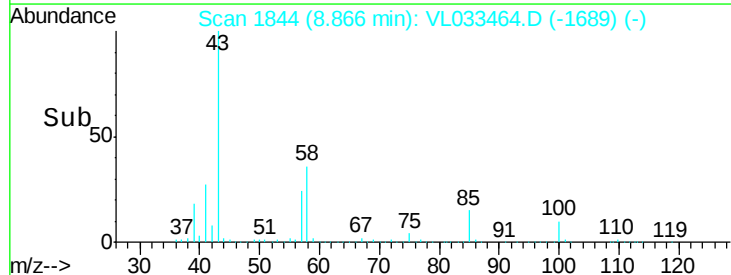
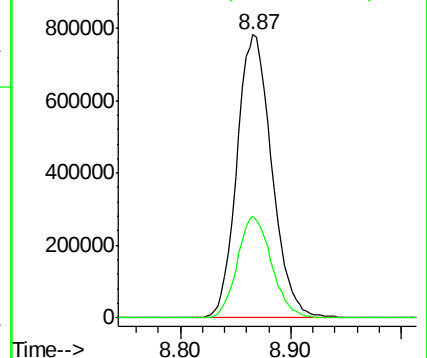
43 100

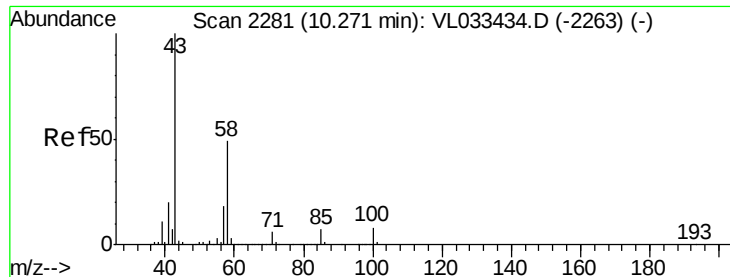
58 35.3 28.0 42.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 10.540 ppbv

RT: 10.27 min Scan# 2280

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

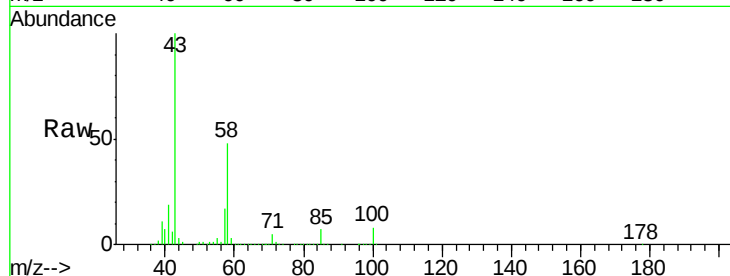
MSVOA_L

ClientSampleId :

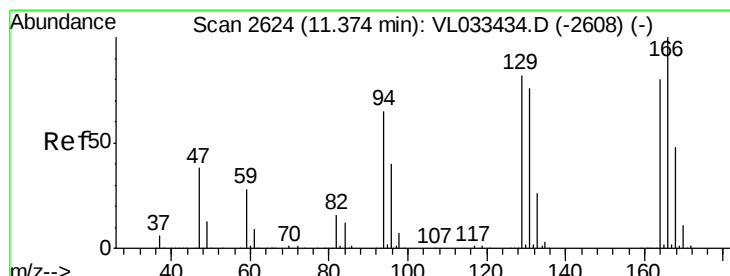
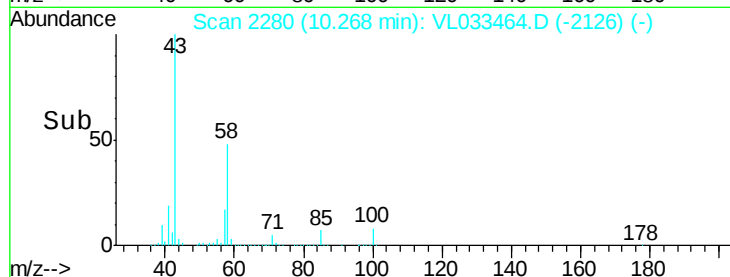
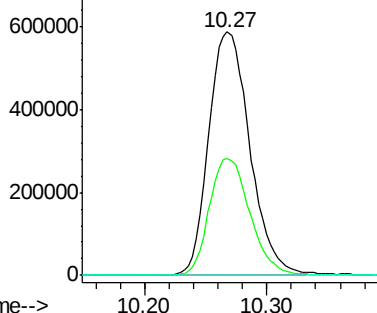
Tot Ion: 43 Resp: 1367575

Ion Ratio Lower Upper

43	100		
58	47.6	38.2	57.2
98	0.3	0.2	0.2#



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: 10.365 ppbv

RT: 11.37 min Scan# 2623

Delta R.T. -0.00 min

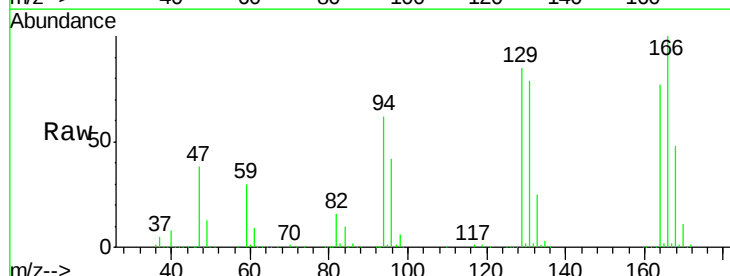
Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

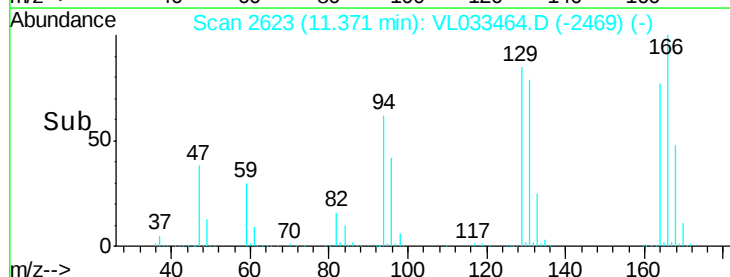
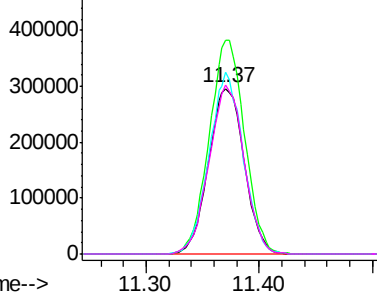
Tgt Ion: 164 Resp: 648752

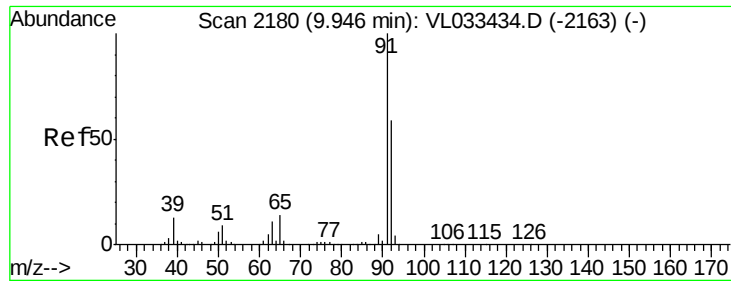
Ion Ratio Lower Upper

164	100		
166	129.2	99.5	149.3
129	110.1	81.4	122.2
131	102.3	75.6	113.4



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: 10.270 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

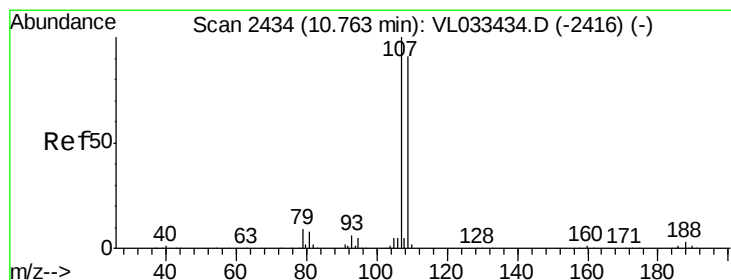
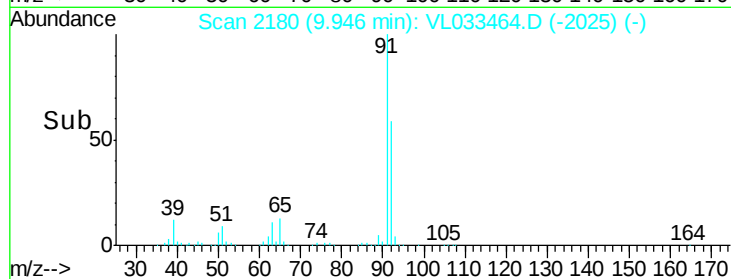
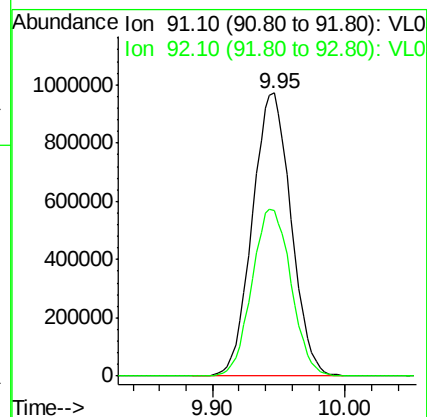
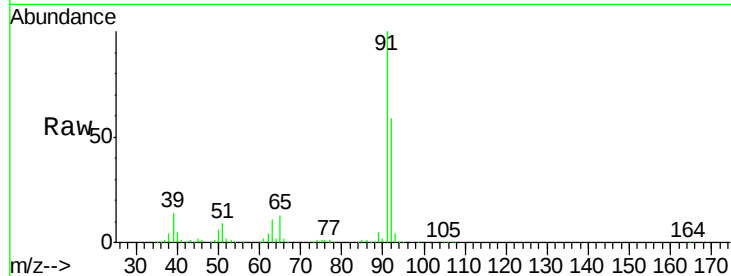
ClientSampleId :

Tot Ion: 91 Resp: 1979877

Ion Ratio Lower Upper

91 100

92 59.6 47.4 71.0



#54

1,2-Dibromoethane

Concen: 9.895 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.01 min

Lab File: VL033464.D

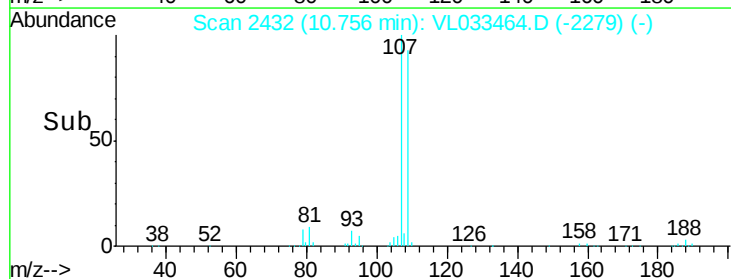
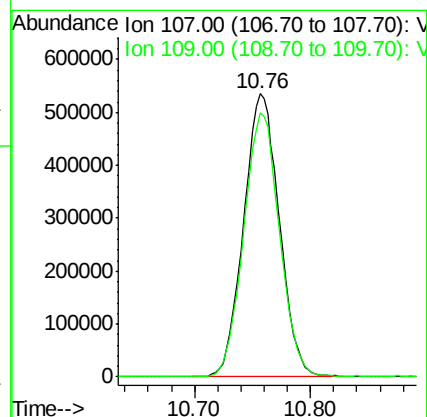
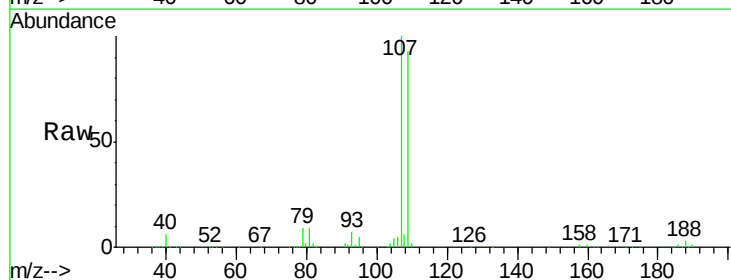
Acq: 27 Mar 2019 10:20

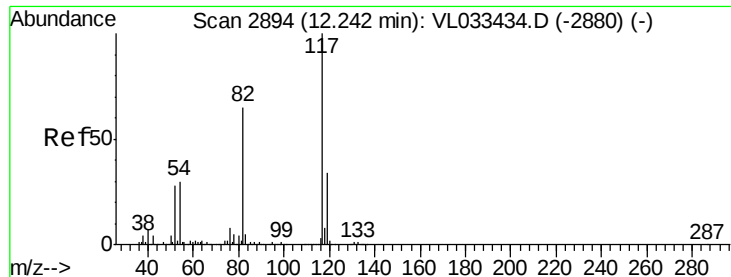
Tgt Ion:107 Resp: 1142085

Ion Ratio Lower Upper

107 100

109 93.4 72.7 109.1

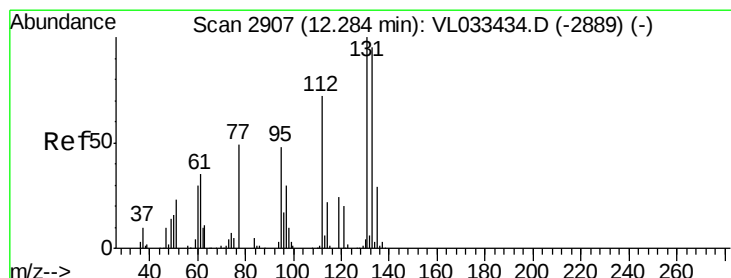
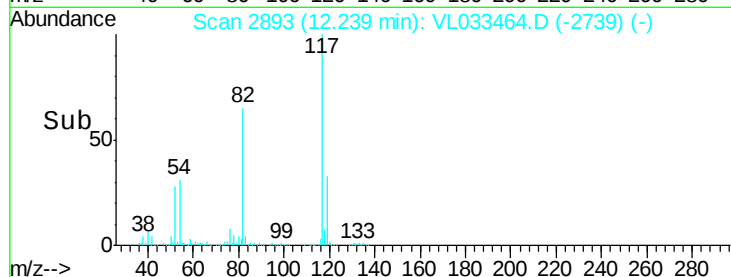
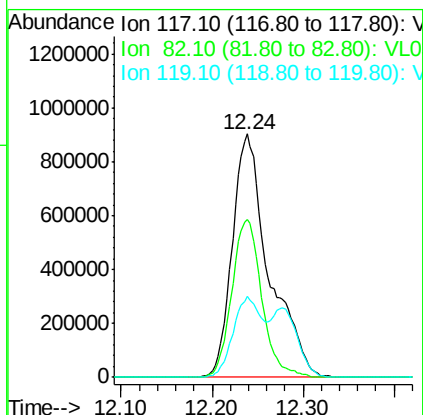
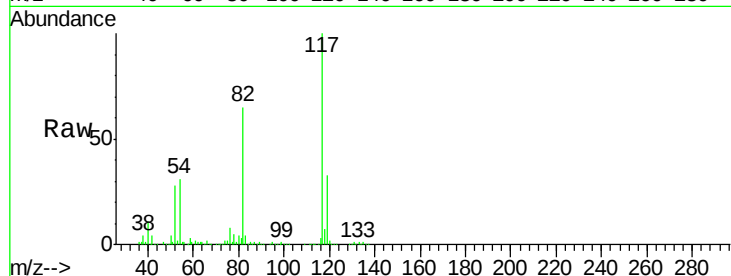




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

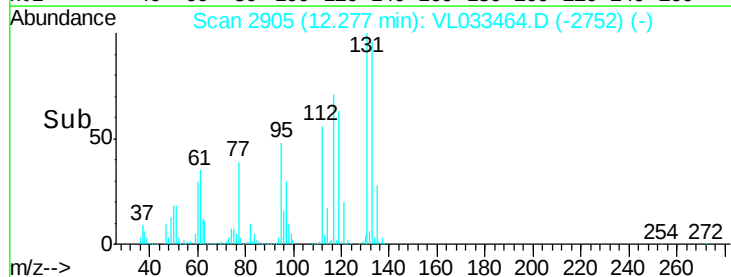
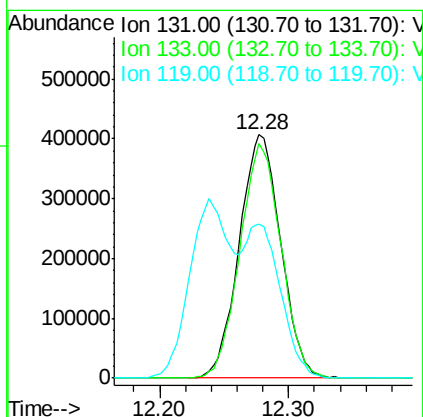
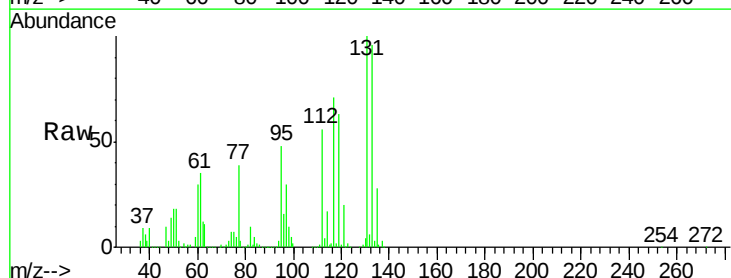
Instrument :
MSVOA_L
ClientSampled :

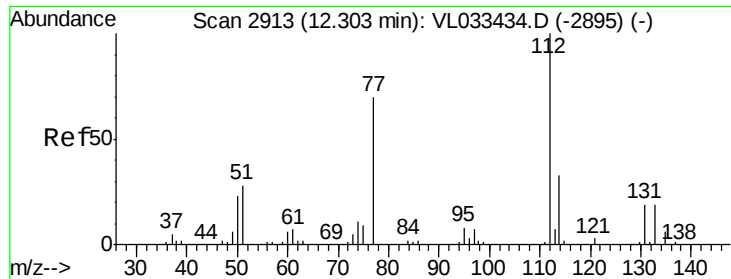
Tot Ion:117 Resp: 2530228
Ion Ratio Lower Upper
117 100
82 53.1 51.5 77.3
119 25.2 25.5 38.3#



#56
1,1,1,2-Tetrachloroethane
Concen: 7.868 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. -0.01 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Tgt Ion:131 Resp: 912417
Ion Ratio Lower Upper
131 100
133 95.6 76.2 114.4
119 51.7 45.0 67.6

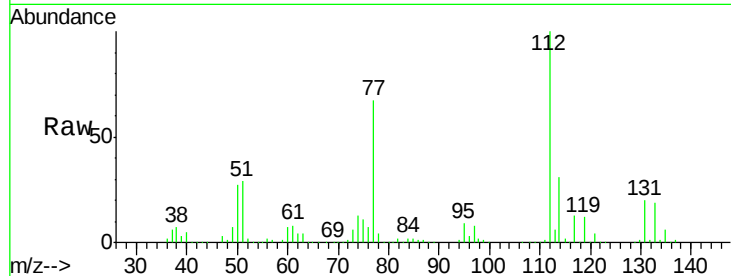




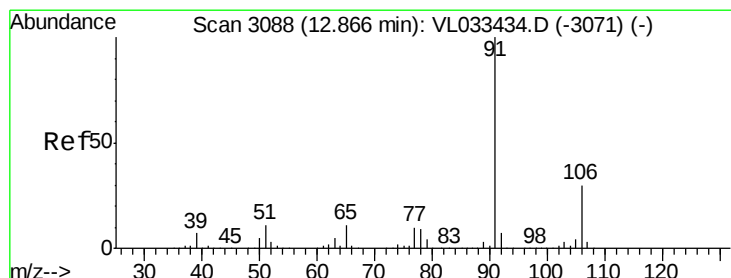
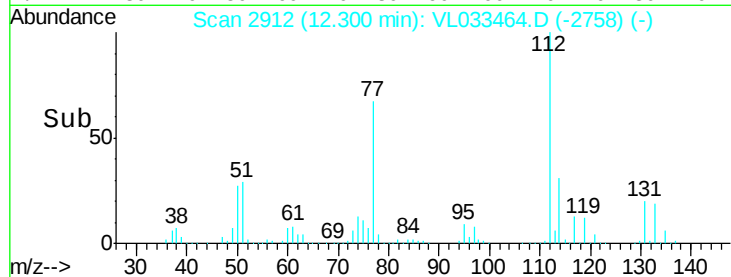
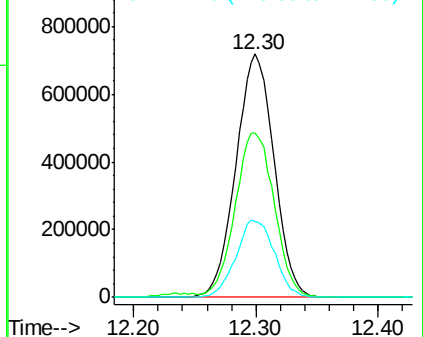
#57
Chlorobenzene
Concen: 7.884 ppbv
RT: 12.30 min Scan# 2912
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:112 Resp: 1549004
Ion Ratio Lower Upper
112 100
77 67.3 57.3 85.9
114 31.1 29.8 36.4

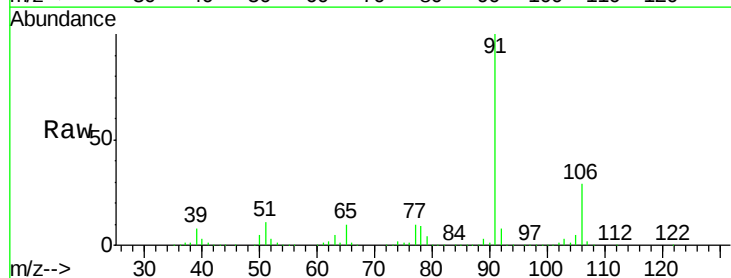


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

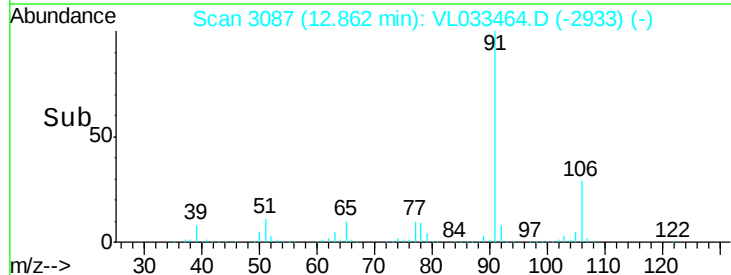
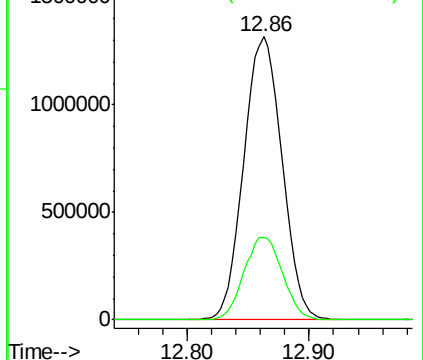


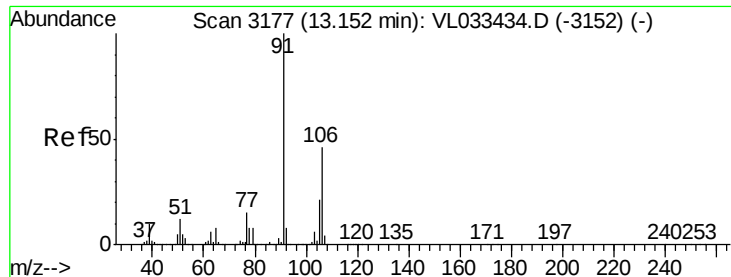
#58
Ethyl Benzene
Concen: 8.442 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Tgt Ion: 91 Resp: 2852483
Ion Ratio Lower Upper
91 100
106 29.3 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

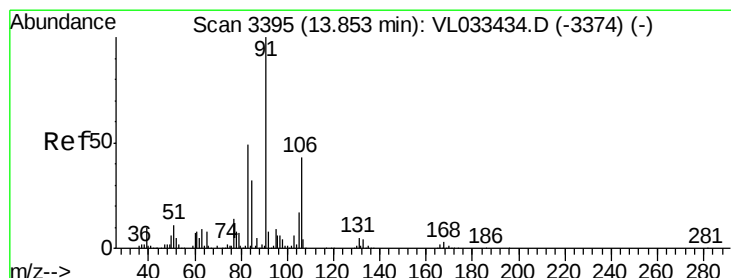
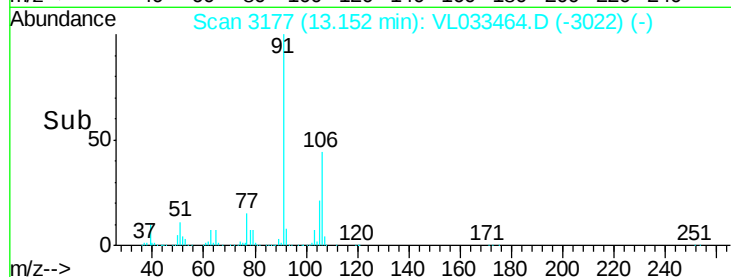
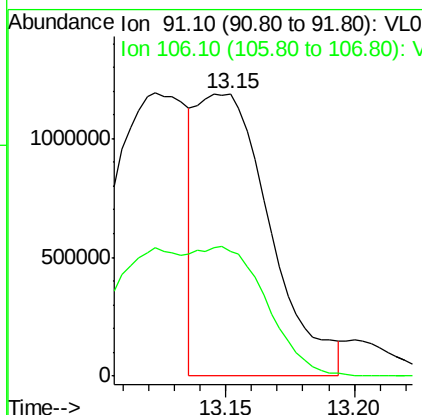
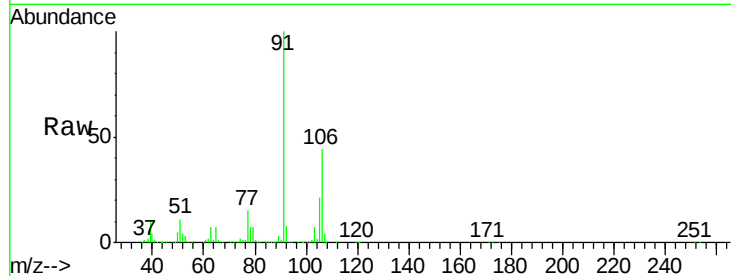




#59
m/p-Xylene
Concen: 7.749 ppbv
RT: 13.15 min Scan# 3177
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

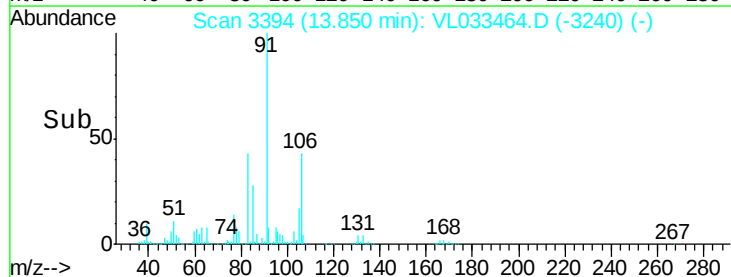
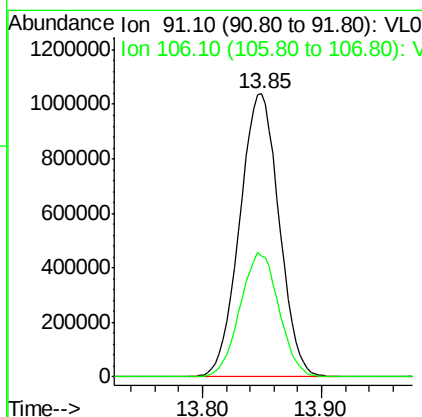
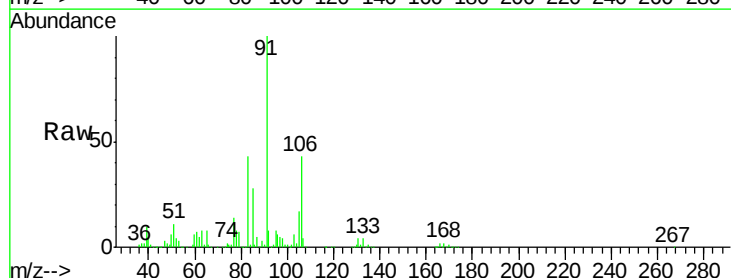
Instrument :
MSVOA_L
ClientSampled :

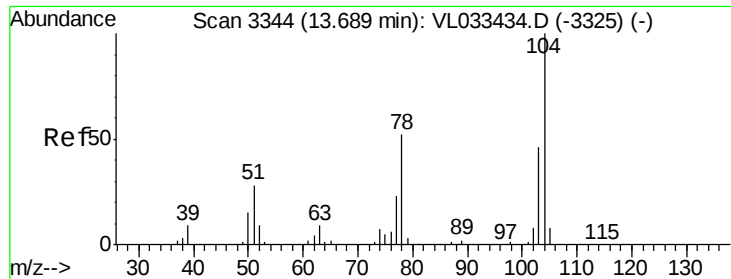
Tot Ion: 91 Resp: 2338604
Ion Ratio Lower Upper
91 100
106 91.9 0.0 0.0#



#60
o-Xylene
Concen: 8.159 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Tgt Ion: 91 Resp: 2381084
Ion Ratio Lower Upper
91 100
106 43.4 21.4 64.3





#61

Stvrene

Concen: 8.860 ppbv

RT: 13.68 min Scan# 3342

Delta R.T. -0.01 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

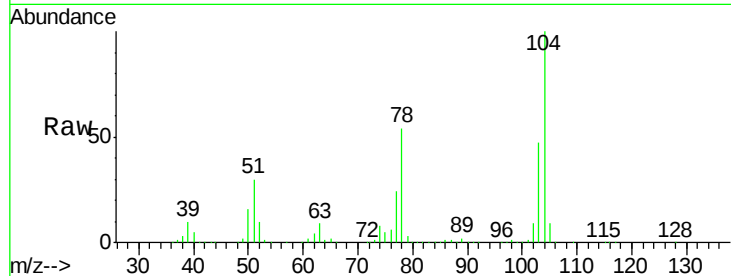
Tot Ion:104 Resp: 1774612

Ion Ratio Lower Upper

104 100

78 53.5 43.2 64.8

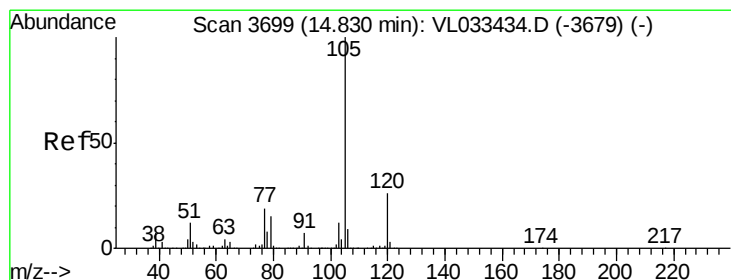
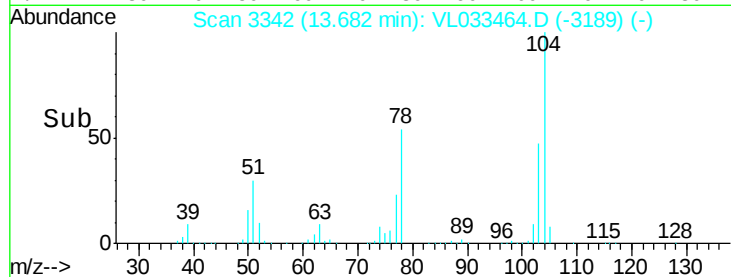
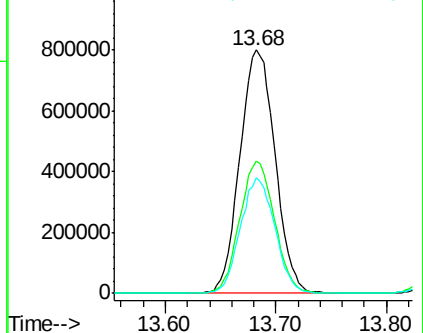
103 46.5 37.8 56.8



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): V

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.074 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. -0.01 min

Lab File: VL033464.D

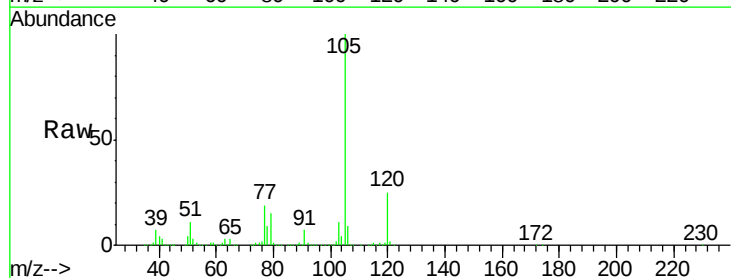
Acq: 27 Mar 2019 10:20

Tgt Ion:105 Resp: 3336790

Ion Ratio Lower Upper

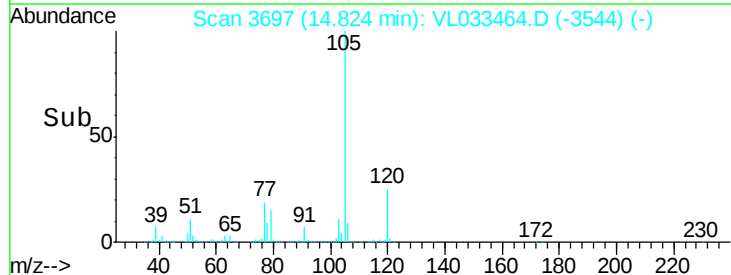
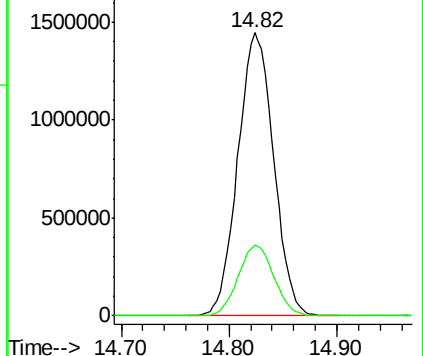
105 100

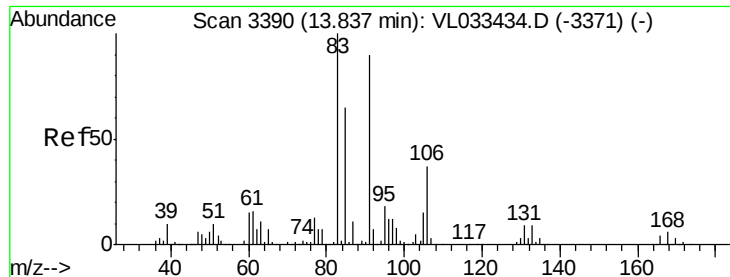
120 25.0 20.2 30.2



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: 7.584 ppbv

RT: 13.83 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

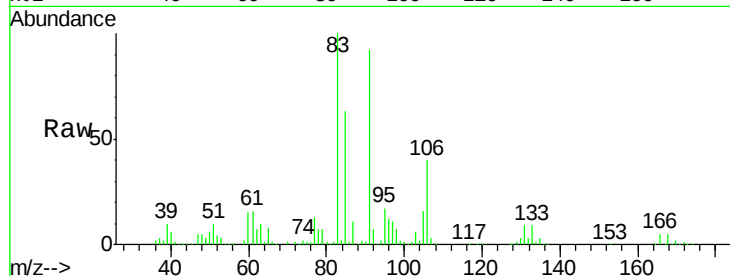
Tot Ion: 83 Resp: 1629837

Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.7	14.0
85	65.2	32.7	98.1

83 100

131 9.4 4.7 14.0

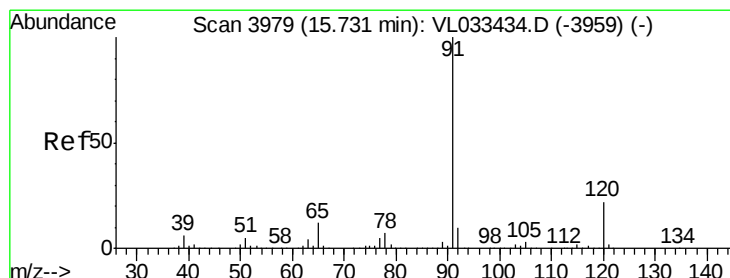
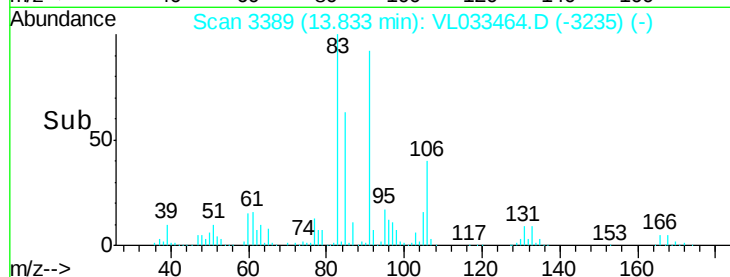
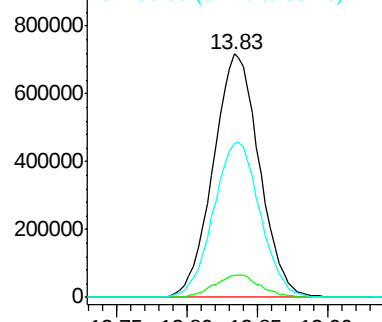
85 65.2 32.7 98.1



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 8.193 ppbv

RT: 15.72 min Scan# 3976

Delta R.T. -0.01 min

Lab File: VL033464.D

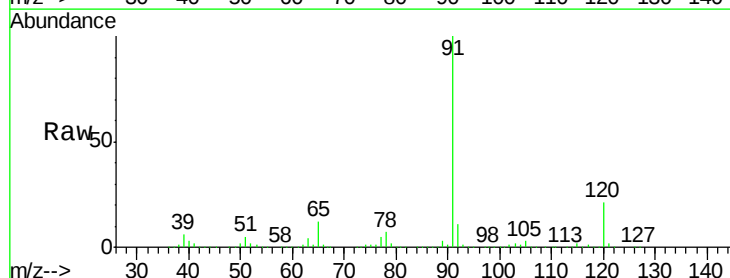
Acq: 27 Mar 2019 10:20

Tgt Ion:120 Resp: 859159

Ion	Ratio	Lower	Upper
120	100		
91	481.6	387.4	581.2

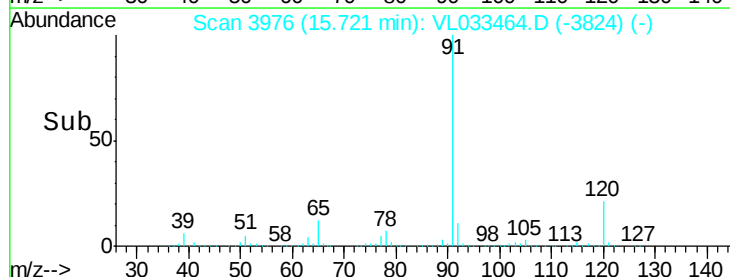
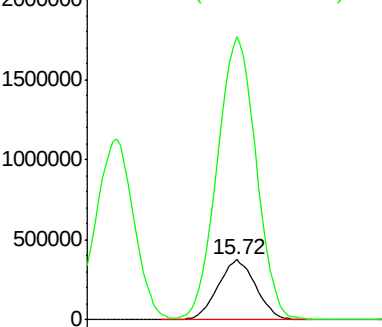
120 100

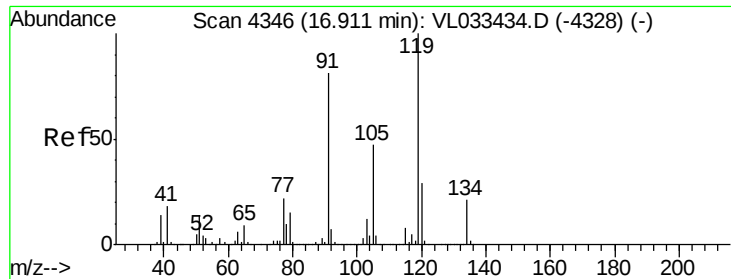
91 481.6 387.4 581.2



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

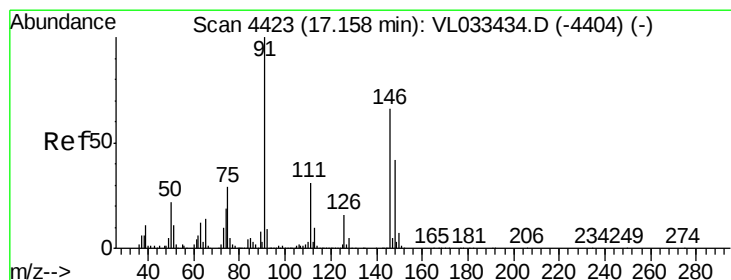
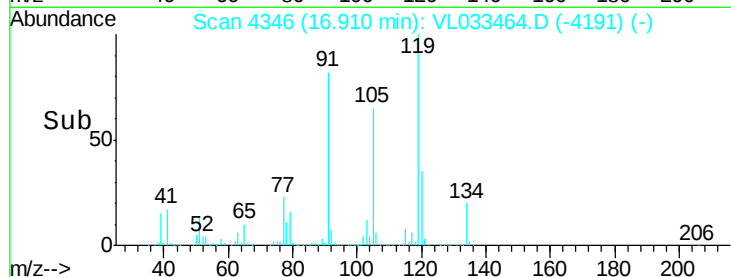
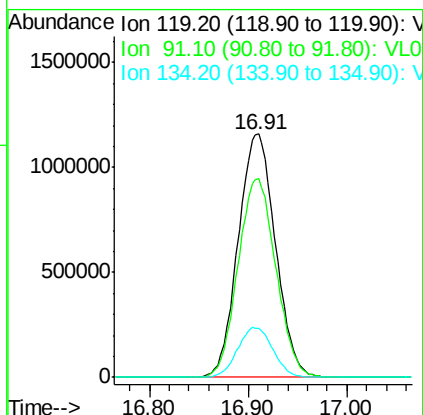
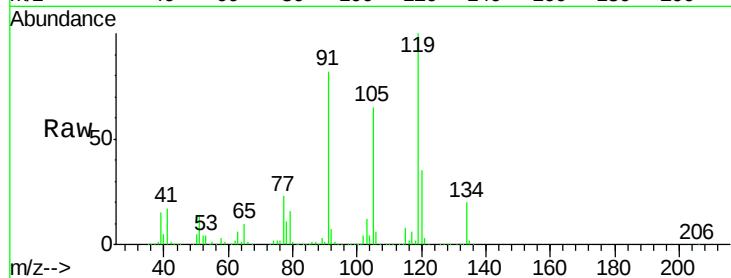




#65
tert-Butylbenzene
Concen: 8.297 ppbv
RT: 16.91 min Scan# 4346
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

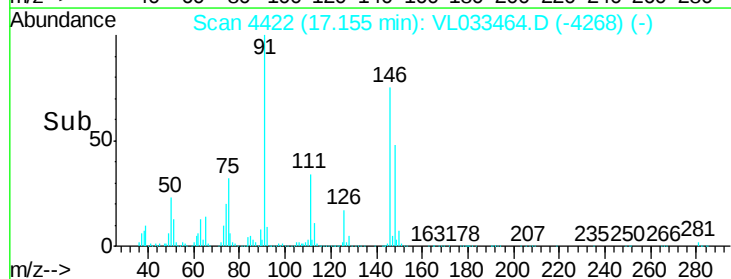
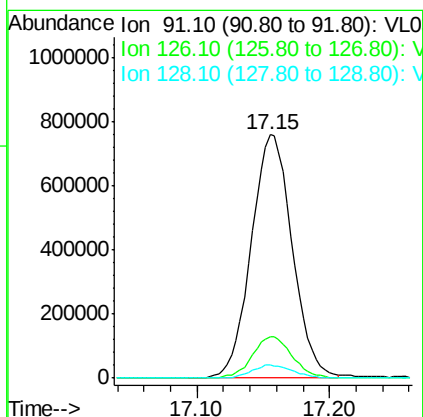
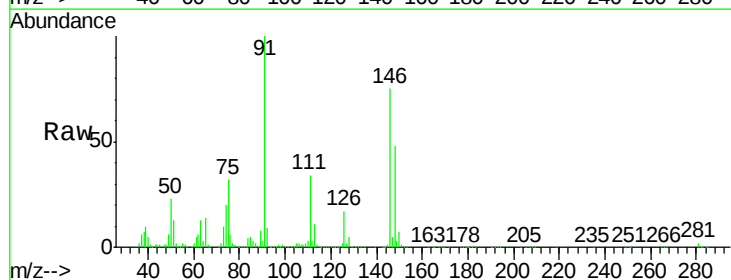
Instrument :
MSVOA_L
ClientSampleId :

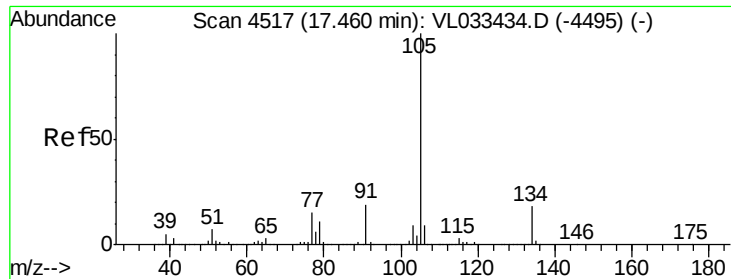
Tot Ion:119 Resp: 3021578
Ion Ratio Lower Upper
119 100
91 83.3 66.4 99.6
134 19.5 15.5 23.3



#66
Benzyl Chloride
Concen: 9.681 ppbv
RT: 17.15 min Scan# 4422
Delta R.T. -0.00 min
Lab File: VL033464.D
Acq: 27 Mar 2019 10:20

Tgt Ion: 91 Resp: 1639454
Ion Ratio Lower Upper
91 100
126 16.6 13.0 19.6
128 5.4 4.2 6.2





#67

sec-Butylbenzene

Concen: 8.275 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

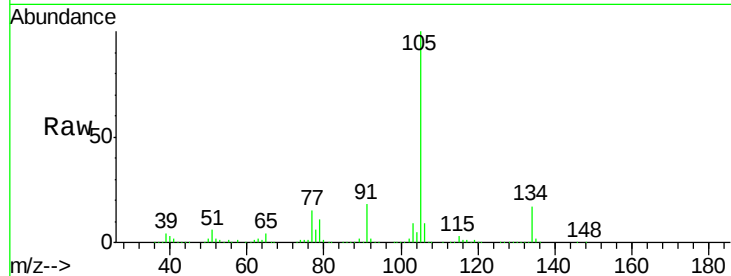
ClientSampleId :

Tot Ion:105 Resp: 4285855

Ion Ratio Lower Upper

105 100

134 17.8 14.6 21.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.46

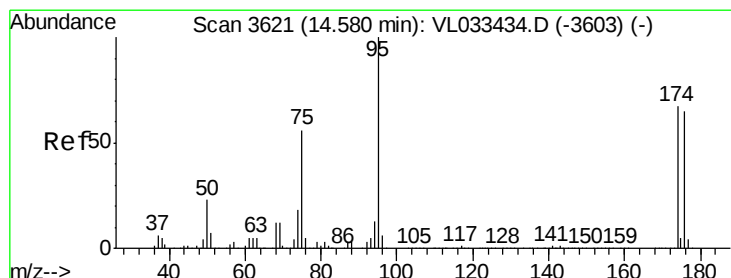
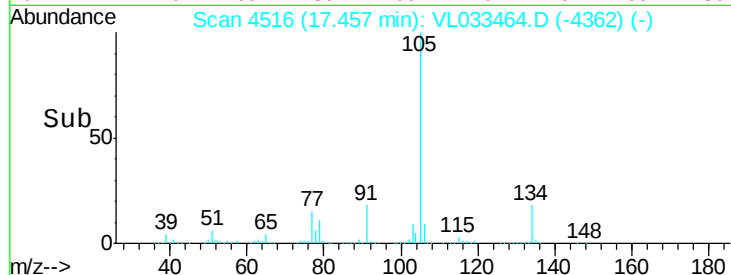
1500000

1000000

500000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 7.951 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

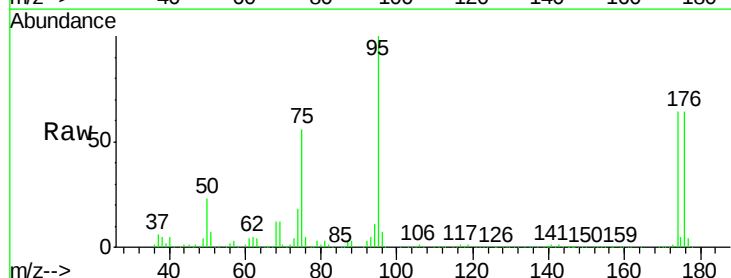
Tgt Ion: 95 Resp: 1577096

Ion Ratio Lower Upper

95 100

174 66.0 52.9 79.3

175 4.7 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

14.58

800000

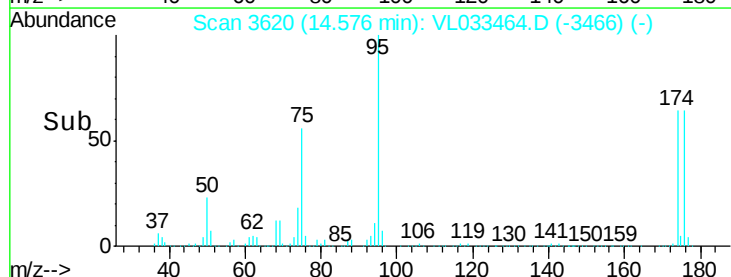
600000

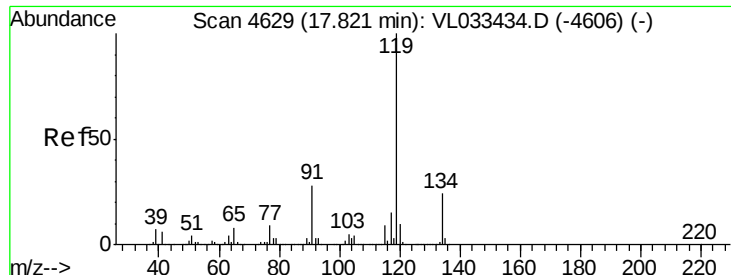
400000

200000

0

Time-->

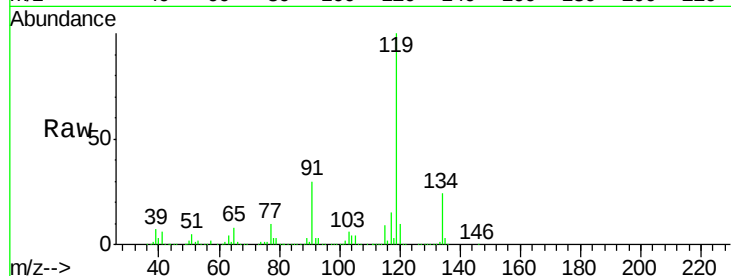




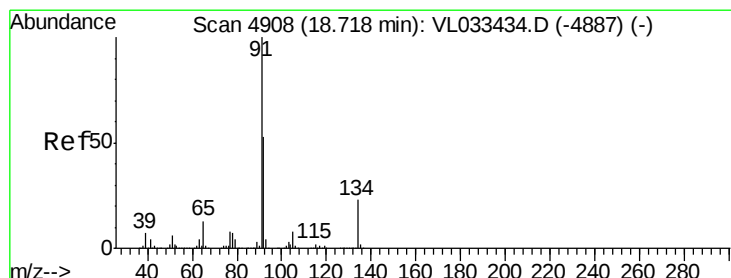
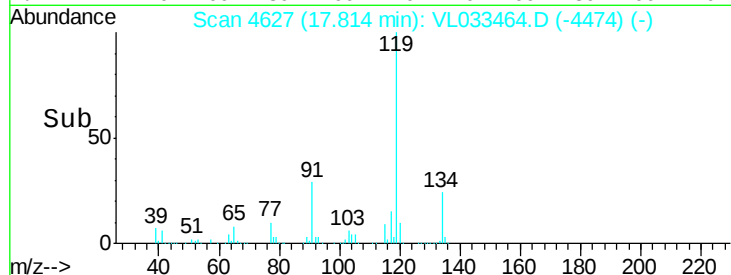
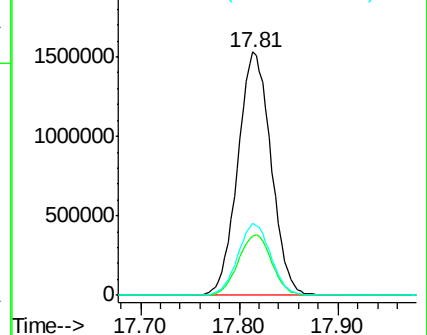
#69
 p-Isopropyltoluene
 Concen: 8.475 ppbv
 RT: 17.81 min Scan# 4627
 Delta R.T. -0.01 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion:119 Resp: 3573841
 Ion Ratio Lower Upper
 119 100
 134 25.0 19.9 29.9
 91 29.3 23.4 35.0

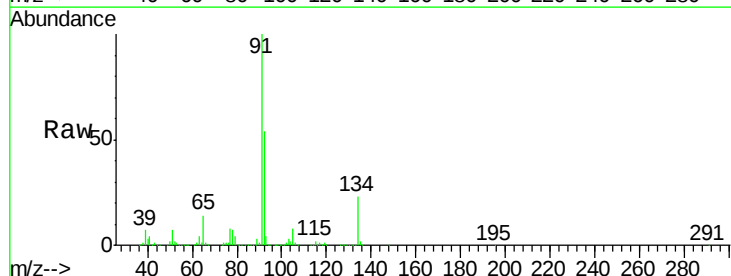


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

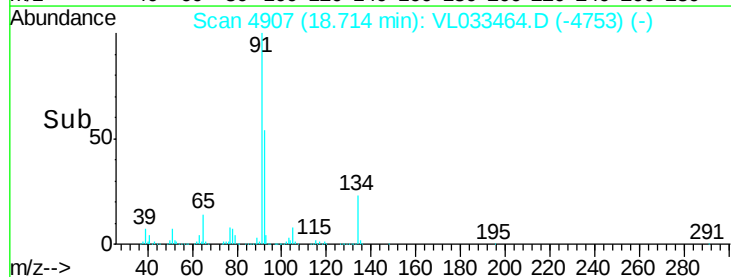
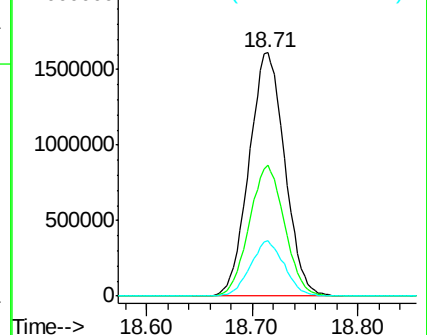


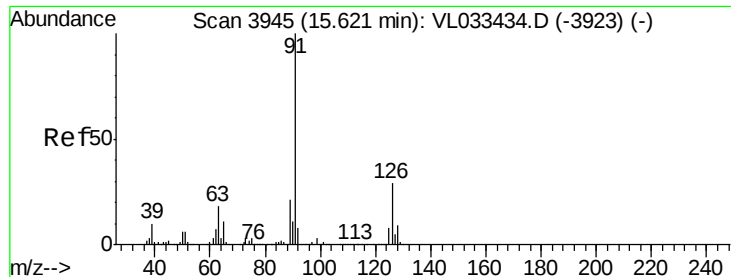
#70
 n-Butylbenzene
 Concen: 8.484 ppbv
 RT: 18.71 min Scan# 4907
 Delta R.T. -0.00 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Tgt Ion: 91 Resp: 3790760
 Ion Ratio Lower Upper
 91 100
 92 53.2 42.6 64.0
 134 21.8 17.5 26.3



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 8.230 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

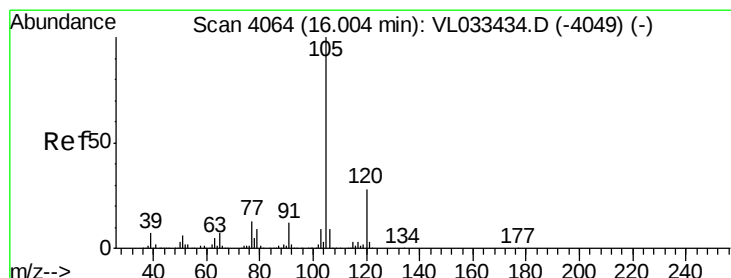
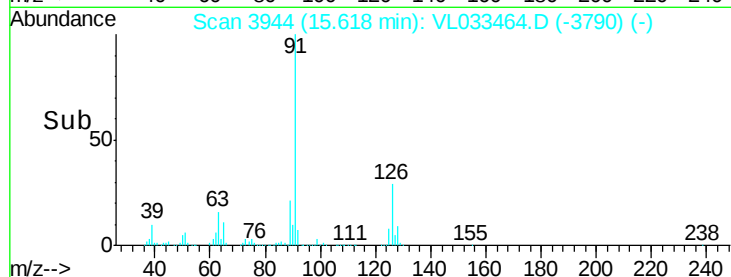
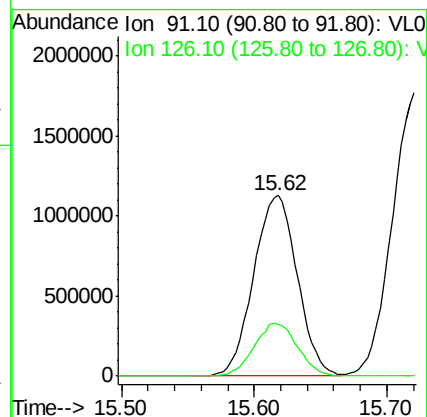
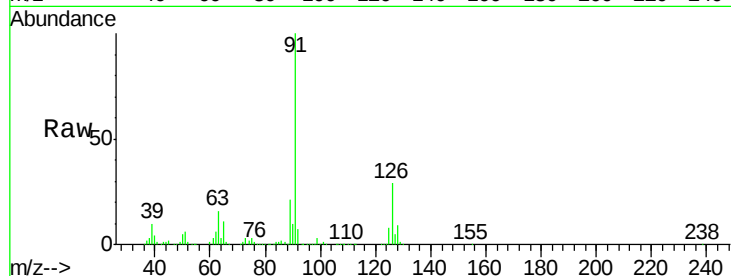
ClientSampleId :

Tot Ion: 91 Resp: 2586328

Ion Ratio Lower Upper

91 100

126 29.3 11.7 46.9



#72

4-Ethyltoluene

Concen: 8.477 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Tgt Ion:105 Resp: 2780845

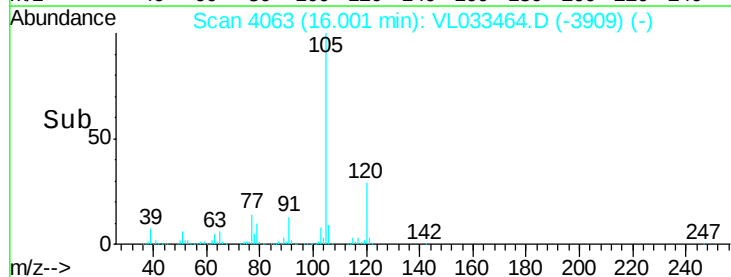
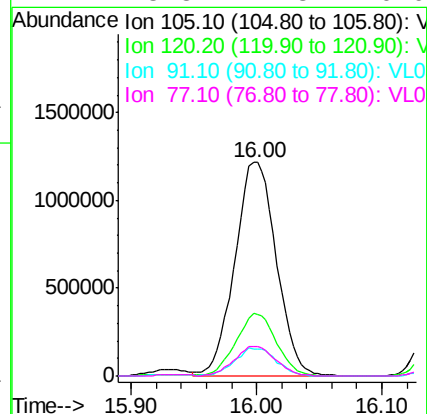
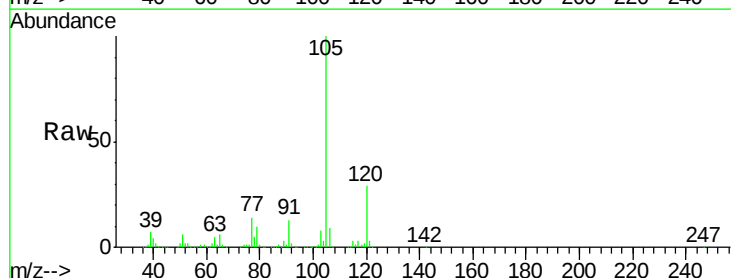
Ion Ratio Lower Upper

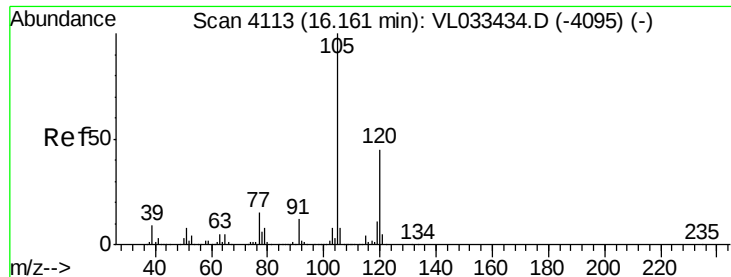
105 100

120 28.7 23.2 34.8

91 13.1 10.4 15.6

77 13.8 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 8.517 ppbv

RT: 16.15 min Scan# 4111

Delta R.T. -0.01 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

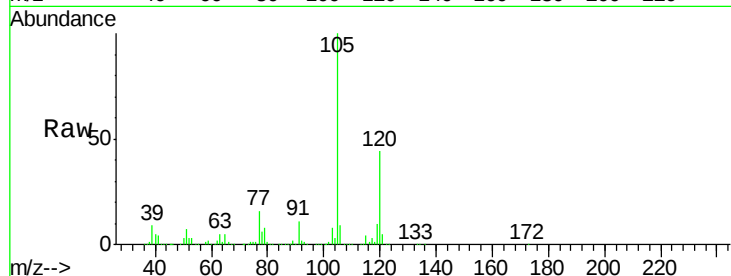
ClientSampleId :

Tot Ion:105 Resp: 2673861

Ion Ratio Lower Upper

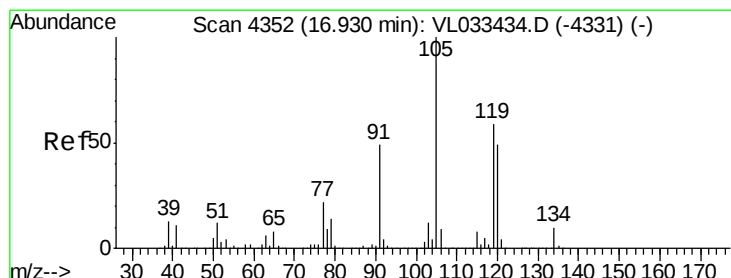
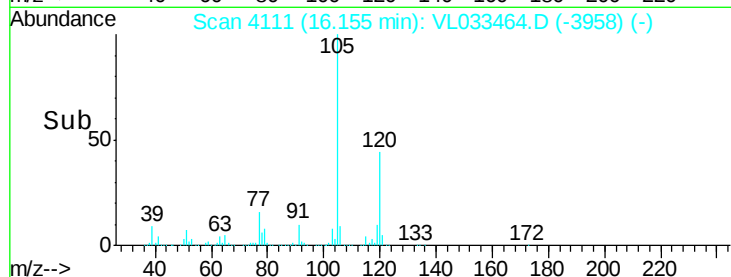
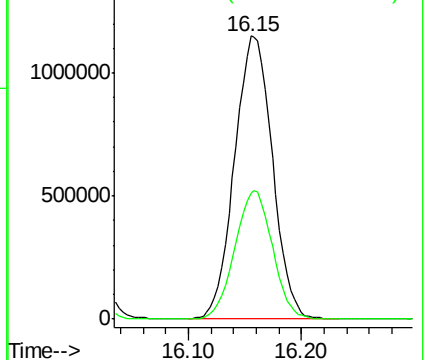
105 100

120 44.4 35.7 53.5



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: 8.311 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Tgt Ion:105 Resp: 2796611

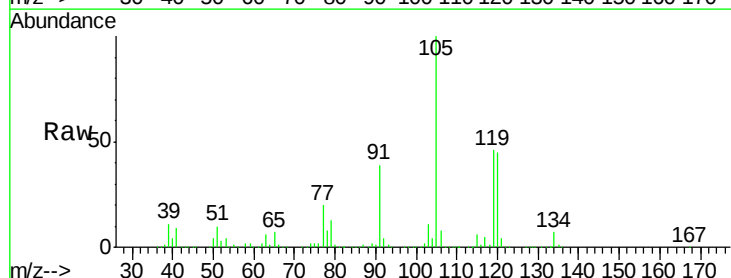
Ion Ratio Lower Upper

105 100

120 45.2 39.0 58.6

91 39.3 40.0 60.0#

77 20.4 17.5 26.3

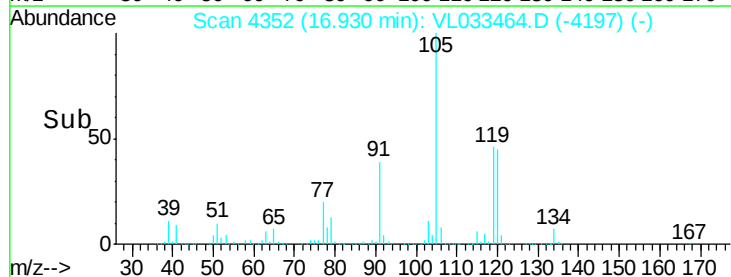
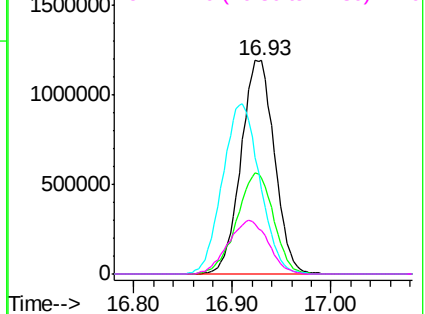


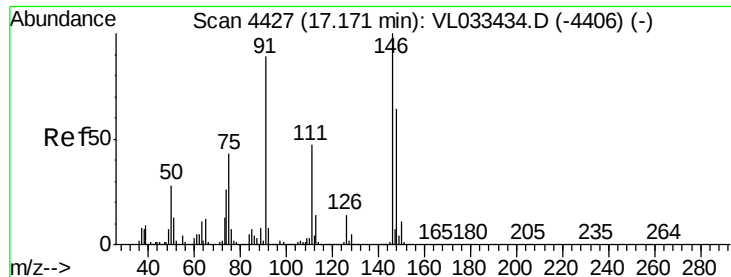
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 7.927 ppbv

RT: 17.16 min Scan# 4425

Delta R.T. -0.01 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Instrument :

MSVOA_L

ClientSampled :

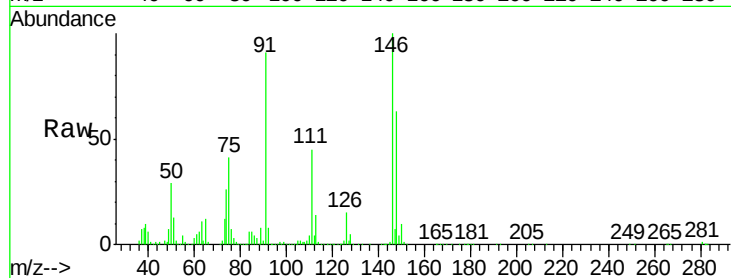
Tot Ion:146 Resp: 1648536

Ion Ratio Lower Upper

146 100

111 45.6 22.9 68.8

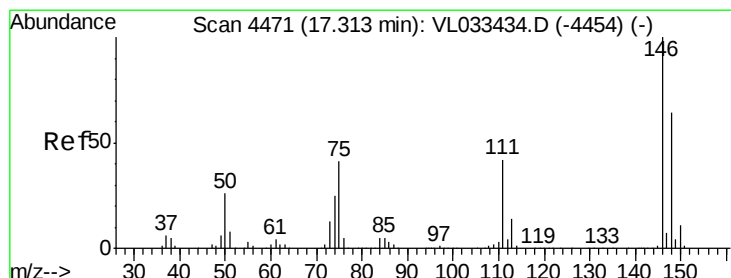
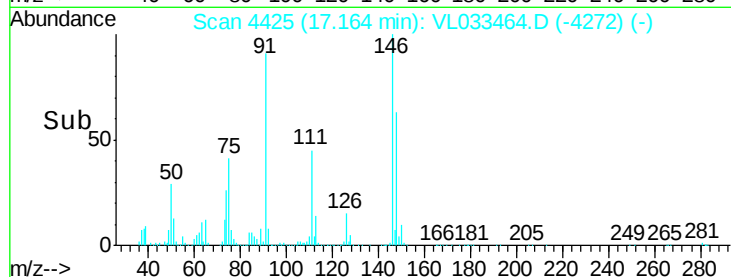
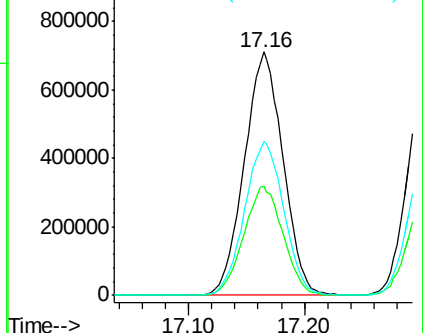
148 64.1 32.0 96.2



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: 8.142 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

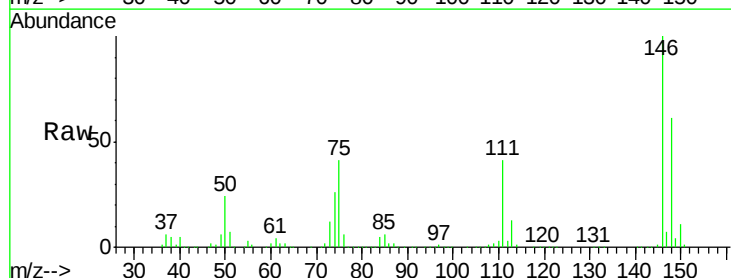
Tgt Ion:146 Resp: 1649876

Ion Ratio Lower Upper

146 100

111 43.3 21.7 65.1

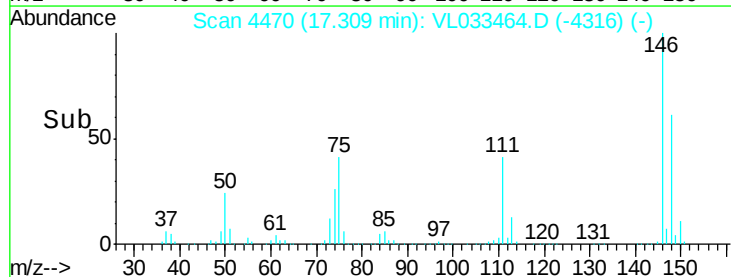
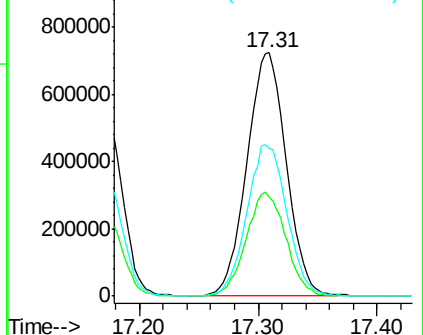
148 64.0 32.0 96.2

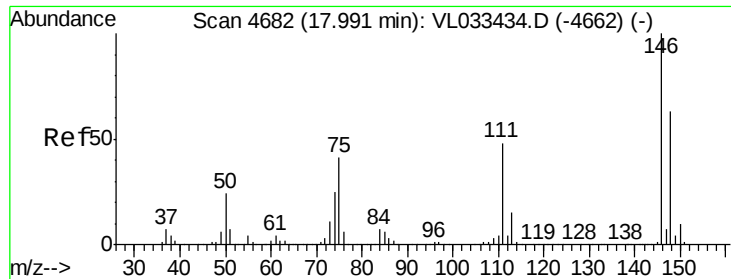


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

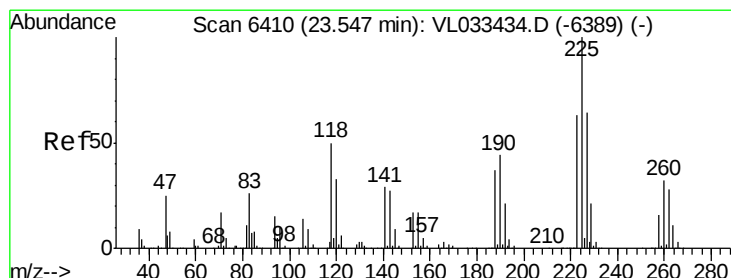
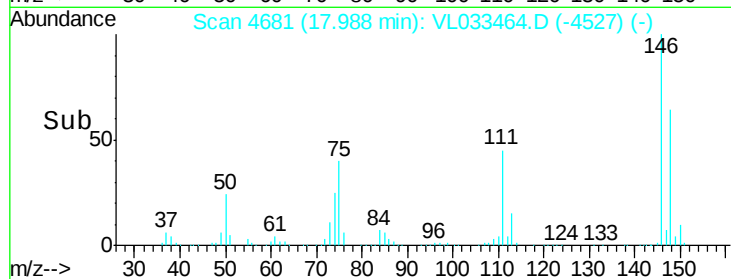
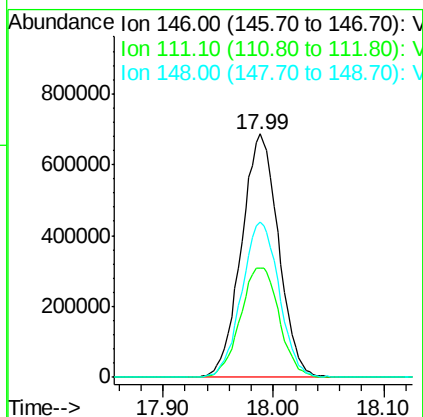
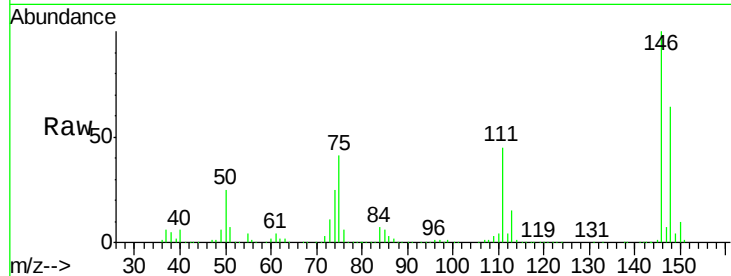




#77
 1,2-Dichlorobenzene
 Concen: 8.097 ppbv
 RT: 17.99 min Scan# 4681
 Delta R.T. -0.00 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

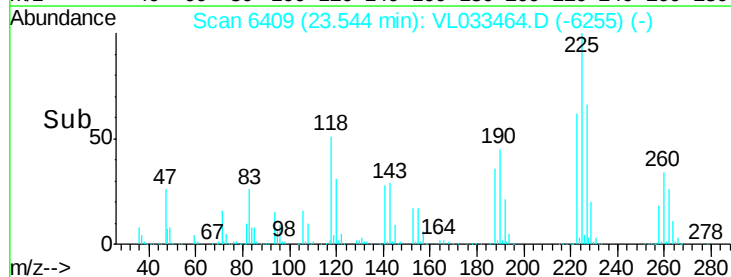
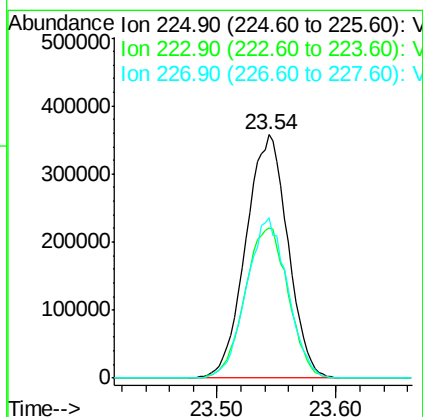
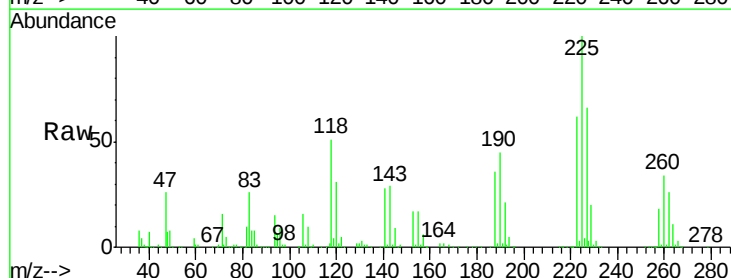
Instrument :
 MSVOA_L
 ClientSampled :

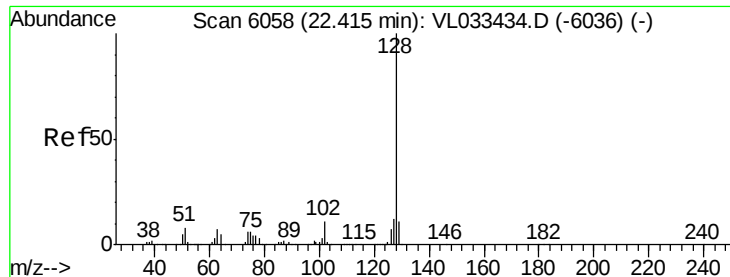
Tot Ion:146 Resp: 1597842
 Ion Ratio Lower Upper
 146 100
 111 47.2 23.5 70.5
 148 64.5 32.0 96.0



#78
 Hexachloro-1,3-Butadiene
 Concen: 6.690 ppbv
 RT: 23.54 min Scan# 6409
 Delta R.T. -0.00 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Tgt Ion:225 Resp: 873838
 Ion Ratio Lower Upper
 225 100
 223 63.5 50.0 75.0
 227 64.6 51.1 76.7





#79

Naphthalene

Concen: 9.497 ppbv

RT: 22.41 min Scan# 6057

Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

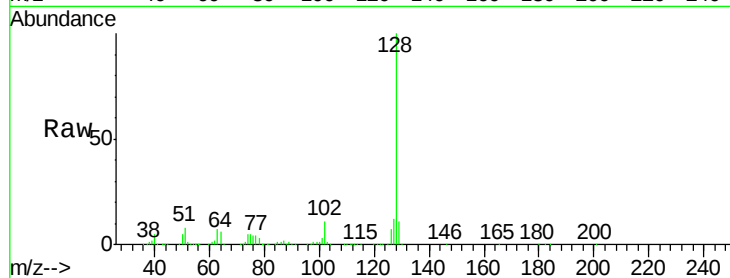
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:128 Resp: 2735453

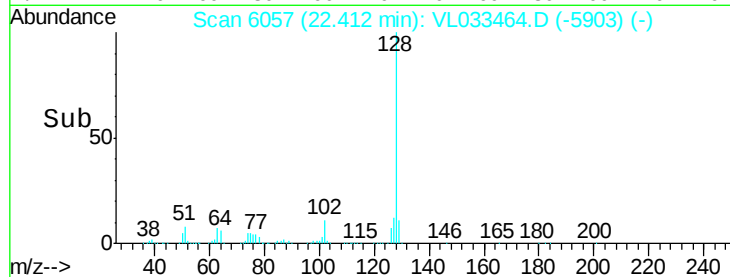
Ion	Ratio	Lower	Upper
128	100		
127	12.4	9.8	14.8
129	10.9	8.6	12.8



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

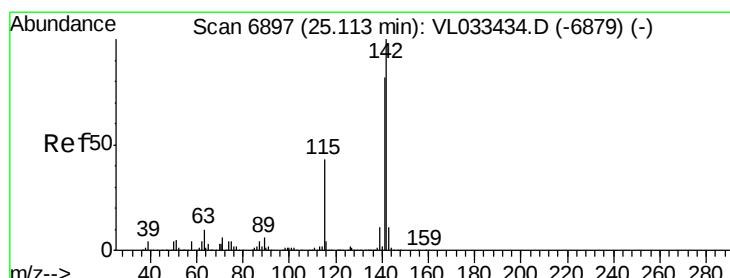
Ion 129.10 (128.80 to 129.80): V



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: 12.278 ppbv

RT: 25.11 min Scan# 6896

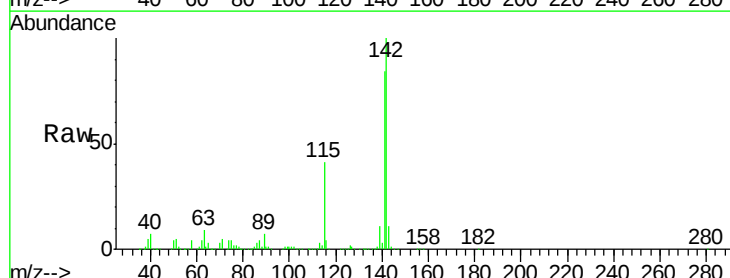
Delta R.T. -0.00 min

Lab File: VL033464.D

Acq: 27 Mar 2019 10:20

Tgt Ion:142 Resp: 1186863

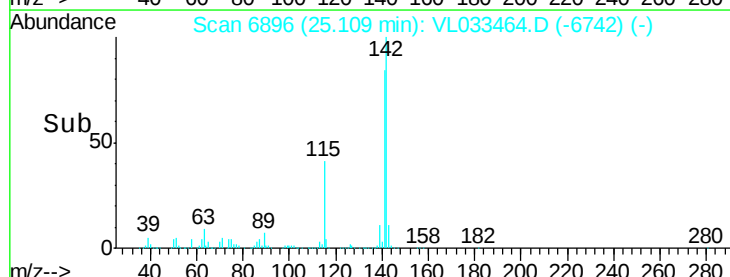
Ion	Ratio	Lower	Upper
142	100		
141	85.1	66.6	99.8
115	42.7	34.4	51.6



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

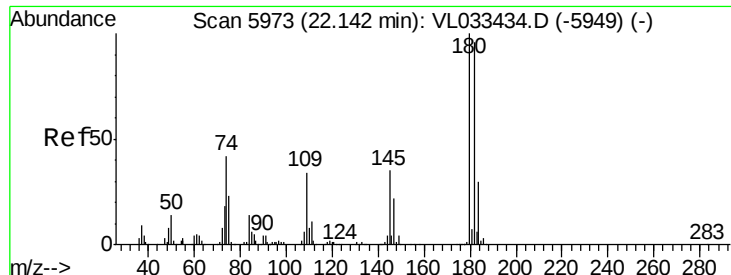
Ion 115.00 (114.70 to 115.70): V



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

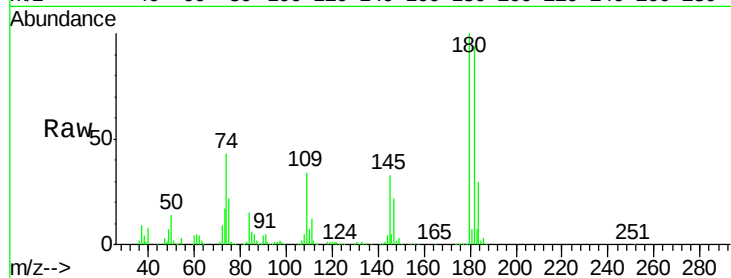
Ion 115.00 (114.70 to 115.70): V



#81
 1,2,4-Trichlorobenzene
 Concen: 8.732 ppbv
 RT: 22.13 min Scan# 5970
 Delta R.T. -0.01 min
 Lab File: VL033464.D
 Acq: 27 Mar 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:180 Resp: 1395188
 Ion Ratio Lower Upper
 180 100
 182 96.0 77.0 115.4
 184 30.6 24.6 36.8



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

