

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL121719\
 Data File : VL034493.D
 Acq On : 17 Dec 2019 13:16
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Dec 18 04:20:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	941729	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1906503	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2116204	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	1680623	9.44	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.40%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.02	85	1681089	9.867	ppbv 98
3) Chlorodifluoromethane	2.96	51	1109792	9.445	ppbv 98
4) Chloromethane	3.11	50	580224	8.372	ppbv 99
5) Vinyl Chloride	3.23	62	571985	8.809	ppbv 96
6) Bromomethane	3.45	94	325223	9.954	ppbv 94
7) Chloroethane	3.54	64	213165	9.044	ppbv 94
8) Dichlorotetrafluoroethane	3.16	85	1368507	8.945	ppbv 99
9) Propene	2.98	41	423282	8.114	ppbv 98
10) Heptane	8.15	43	1159205	8.611	ppbv 99
11) Trichlorofluoromethane	3.94	101	1605799	9.471	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1067626	9.482	ppbv 99
13) Ethanol	3.59	45	127901	8.802	ppbv 97
14) Bromoethene	3.72	108	423273	9.245	ppbv 99
15) Acetone	3.84	43	1135312	8.419	ppbv 100
16) 1,3-Butadiene	3.30	39	525553	8.947	ppbv 99
17) tert-Butyl alcohol	4.29	59	1167284	10.298	ppbv 100
18) 1,1-Dichloroethene	4.28	96	459506	9.329	ppbv 94
19) Isopropyl Alcohol	3.96	45	914681	10.582	ppbv 100
20) Methylene Chloride	4.34	84	407354	8.519	ppbv 95
21) Allyl Chloride	4.41	41	775805	9.601	ppbv 100
22) trans-1,2-Dichloroethene	4.89	96	464774	9.361	ppbv 98
23) Vinyl Acetate	5.08	43	1626053	9.231	ppbv 98
24) 1,1-Dichloroethane	5.01	63	1207549	8.924	ppbv 99
25) Ethyl Acetate	5.69	43	2005137	8.333	ppbv 100
26) Hexane	5.70	57	887504	8.583	ppbv 97
27) Carbon Disulfide	4.55	76	1197359	10.632	ppbv 99
28) Methyl tert-Butyl Ether	5.03	73	1533457	8.944	ppbv 100
29) Chloroform	5.77	83	1479216	8.834	ppbv 96
30) Cyclohexane	7.16	84	697908	8.928	ppbv 99
31) cis-1,2-Dichloroethene	5.56	61	934233	8.743	ppbv 96
32) 1,1,1-Trichloroethane	6.53	97	1508363	9.608	ppbv 100
34) 2-Butanone	5.25	43	1339560	8.536	ppbv 99
35) Carbon Tetrachloride	7.04	117	1624741	9.912	ppbv 99
36) Benzene	6.92	78	1640368	8.607	ppbv 97
37) 1,2-Dichloroethane	6.33	62	1269699	8.968	ppbv 100
38) Trichloroethene	7.87	130	671230	8.582	ppbv 96
39) 1,2-Dichloropropane	7.65	63	694438	9.458	ppbv 96
40) 1,4-Dioxane	7.86	88	268176	8.361	ppbv # 98
41) Tetrahydrofuran	6.06	42	751533	8.538	ppbv 99
42) Bromodichloromethane	7.83	83	1644122	9.285	ppbv 100
43) Methyl Methacrylate	8.05	69	723574	9.154	ppbv 96

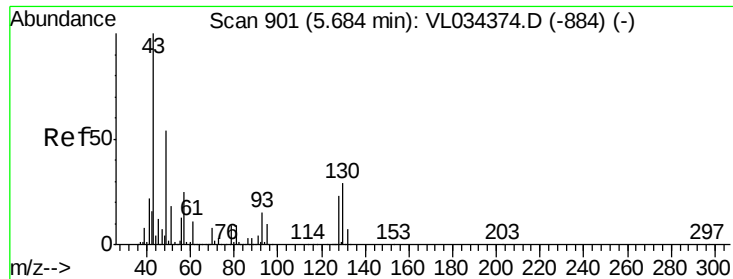
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL121719\
 Data File : VL034493.D
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	3013861	8.653	ppbv	99
45) t-1,3-Dichloropropene	9.32	75	945006	9.322	ppbv	99
46) cis-1,3-Dichloropropene	8.74	75	1054326	9.259	ppbv	98
47) 1,1,2-Trichloroethane	9.52	97	720656	8.823	ppbv	97
48) Dibromochloromethane	10.35	129	1372576	9.788	ppbv	99
49) Bromoform	13.10	173	1254548	10.022	ppbv	99
50) 4-Methyl-2-Pentanone	8.77	43	1993167	8.778	ppbv	100
51) 2-Hexanone	10.18	43	1665066	8.755	ppbv	98
52) Tetrachloroethene	11.27	164	639063	7.750	ppbv	96
53) Toluene	9.85	91	1930091	8.916	ppbv	99
54) 1,2-Dibromoethane	10.66	107	1145152	9.145	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.18	131	932580	9.009	ppbv	96
57) Chlorobenzene	12.20	112	1525486	7.974	ppbv	97
58) Ethyl Benzene	12.76	91	2709056	8.249	ppbv	99
59) m/p-Xylene	13.05	91	2726027	9.603	ppbv #	52
60) o-Xylene	13.75	91	2304530	8.211	ppbv	100
61) Styrene	13.59	104	1630755	8.057	ppbv	100
62) Isopropylbenzene	14.73	105	3061011	8.246	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.74	83	1674773	7.938	ppbv	100
64) n-propylbenzene	15.62	120	797420	8.272	ppbv	97
65) tert-Butylbenzene	16.81	119	2791985	8.373	ppbv	100
66) Benzyl Chloride	17.06	91	1336631	10.420	ppbv	99
67) sec-Butylbenzene	17.36	105	3843508	8.240	ppbv	100
69) p-Isopropyltoluene	17.72	119	3196448	8.257	ppbv	100
70) n-Butylbenzene	18.62	91	3408591	8.184	ppbv	99
71) 2-Chlorotoluene	15.52	91	2413186	8.153	ppbv	100
72) 4-Ethyltoluene	15.90	105	2634435	8.123	ppbv	100
73) 1,3,5-Trimethylbenzene	16.06	105	2561127	8.068	ppbv	98
74) 1,2,4-Trimethylbenzene	16.83	105	2679638	7.946	ppbv #	90
75) 1,3-Dichlorobenzene	17.07	146	1484255	7.658	ppbv	100
76) 1,4-Dichlorobenzene	17.21	146	1490204	7.917	ppbv	100
77) 1,2-Dichlorobenzene	17.89	146	1477224	7.891	ppbv	99
78) Hexachloro-1,3-Butadiene	23.45	225	1240573	7.713	ppbv	99
79) Naphthalene	22.29	128	2249753	7.696	ppbv	99
80) Naphthalene,2-methyl-	25.03	142	605990	4.591	ppbv	99
81) 1,2,4-Trichlorobenzene	22.02	180	1267727	7.059	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.00 min

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VSTDCCC010

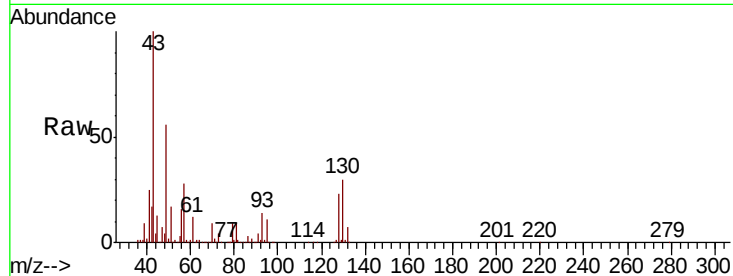
Tgt Ion: 49 Resp: 941729

Ion Ratio Lower Upper

49 100

128 44.1 21.8 65.3

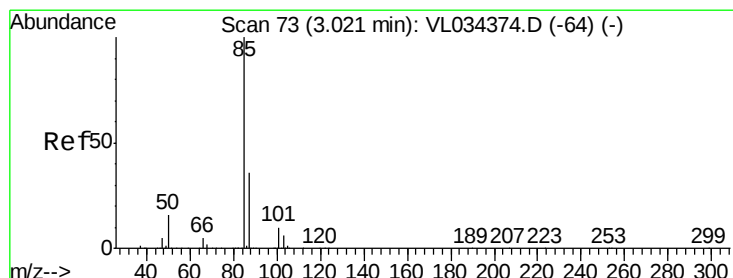
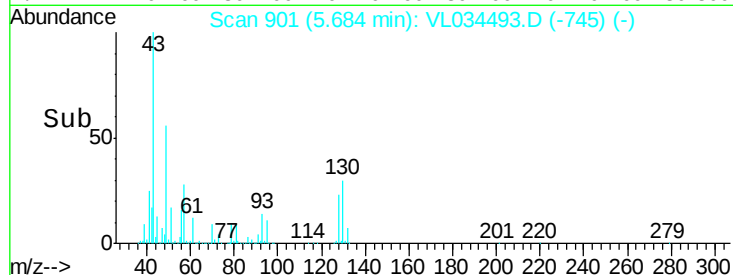
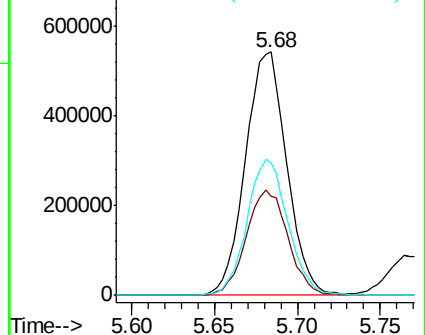
130 55.6 28.0 84.0



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: 9.867 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL034493.D

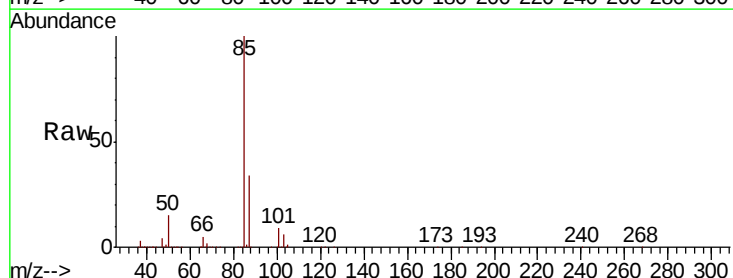
Acq: 17 Dec 2019 13:16

Tgt Ion: 85 Resp: 1681089

Ion Ratio Lower Upper

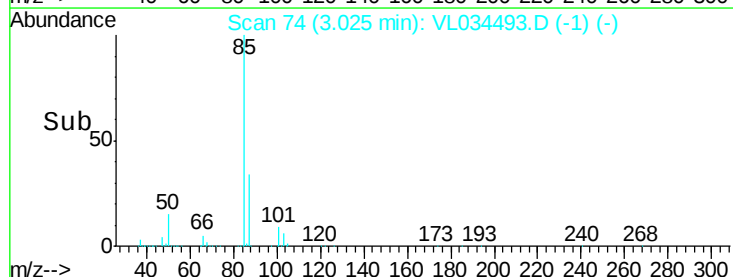
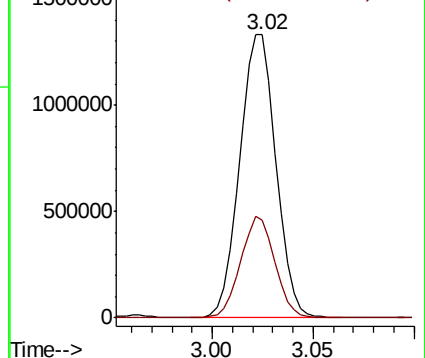
85 100

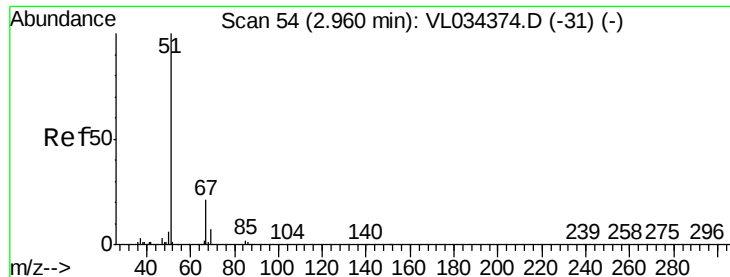
87 34.5 28.5 42.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

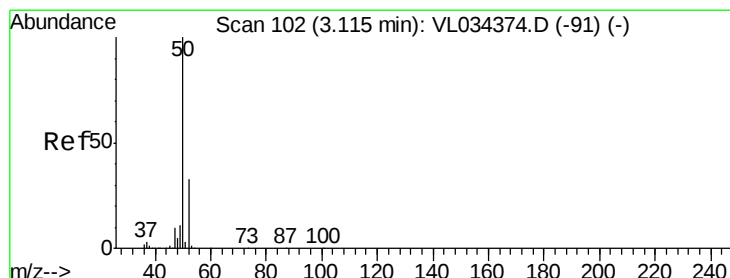
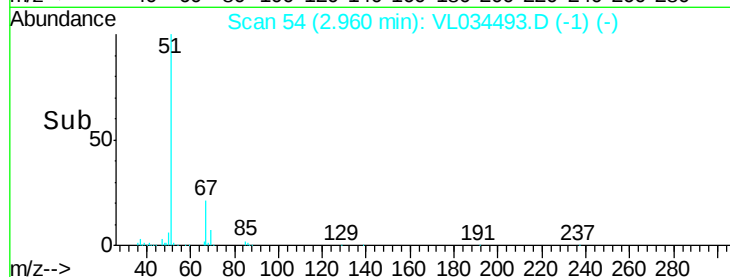
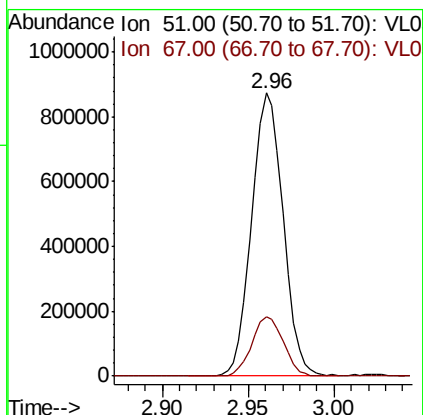
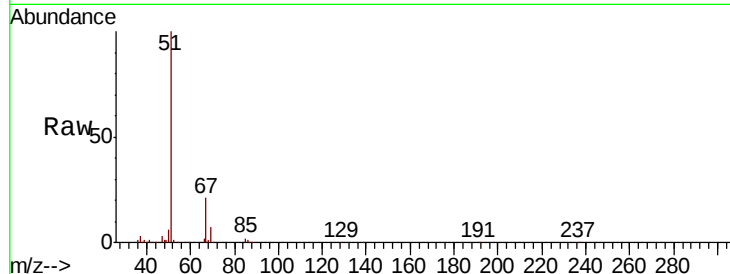




#3
Chlorodifluoromethane
Concen: 9.445 ppbv
RT: 2.96 min Scan# 54
Delta R.T. 0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

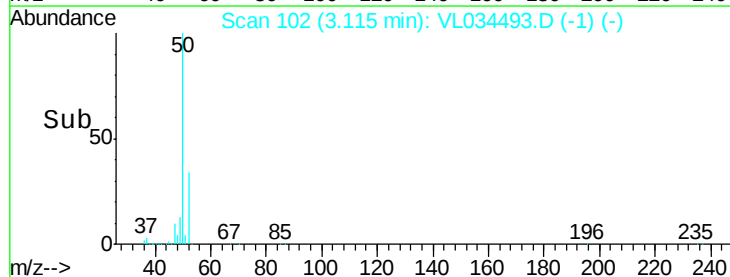
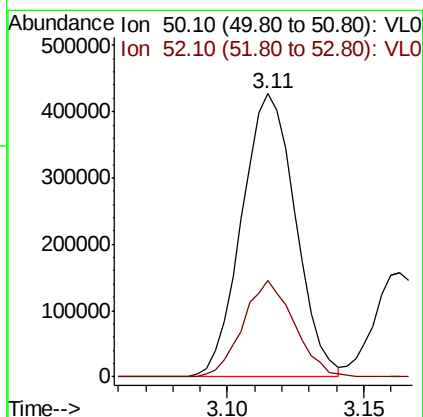
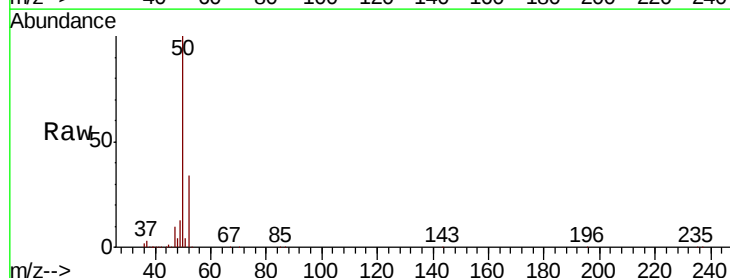
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

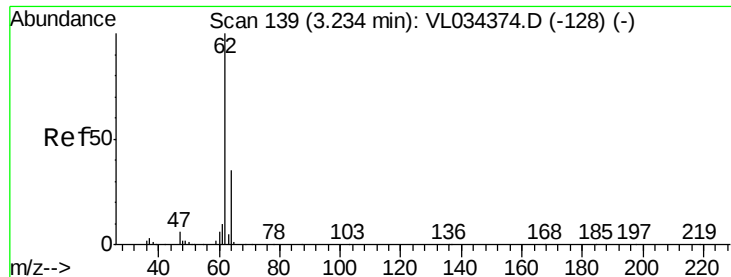
Tgt Ion: 51 Resp: 1109792
Ion Ratio Lower Upper
51 100
67 21.1 16.2 24.2



#4
Chloromethane
Concen: 8.372 ppbv
RT: 3.11 min Scan# 102
Delta R.T. 0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Tgt Ion: 50 Resp: 580224
Ion Ratio Lower Upper
50 100
52 34.1 26.8 40.2





#5

Vinyl Chloride

Concen: 8.809 ppbv

RT: 3.23 min Scan# 139

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

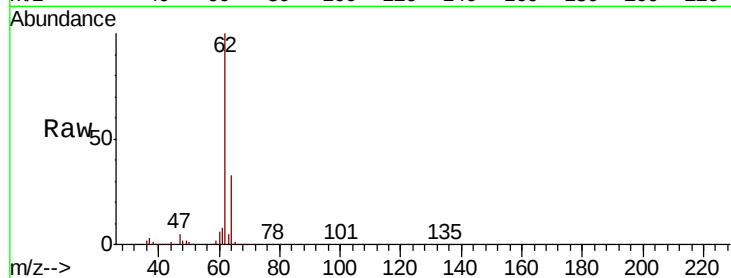
VSTDCCC010

Tgt Ion: 62 Resp: 571985

Ion Ratio Lower Upper

62 100

64 33.1 28.4 42.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.23

400000

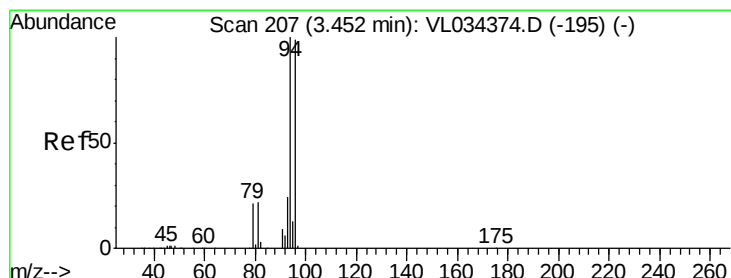
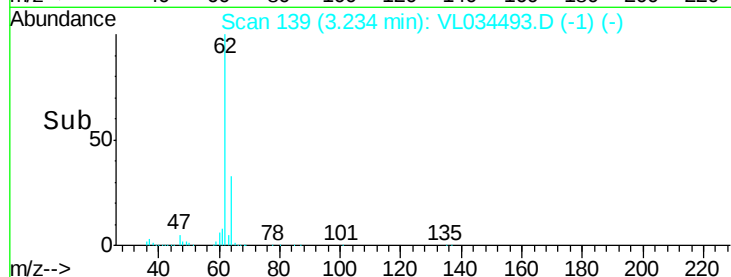
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 9.954 ppbv

RT: 3.45 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL034493.D

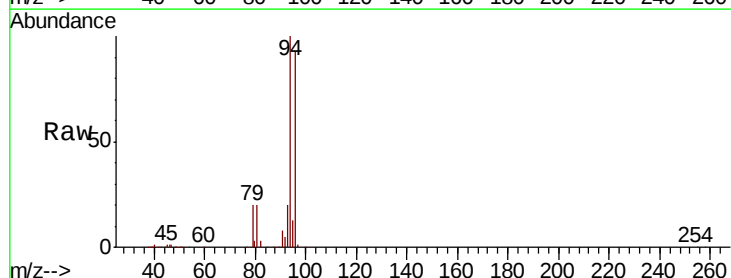
Acq: 17 Dec 2019 13:16

Tgt Ion: 94 Resp: 325223

Ion Ratio Lower Upper

94 100

96 93.0 79.5 119.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.45

250000

200000

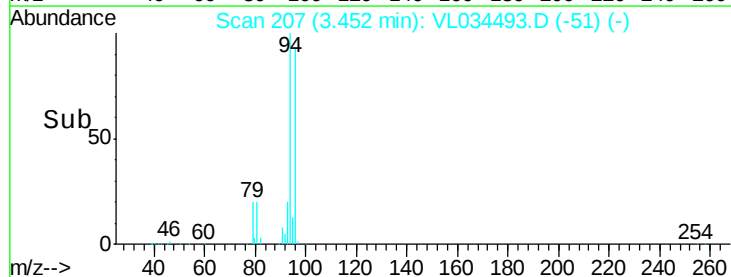
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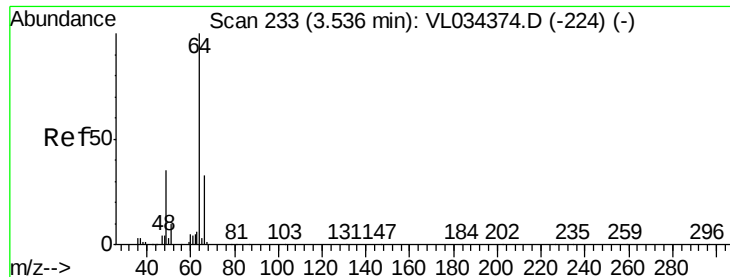
100000

50000

0

Time-->





#7

Chloroethane

Concen: 9.044 ppbv

RT: 3.54 min Scan# 234

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

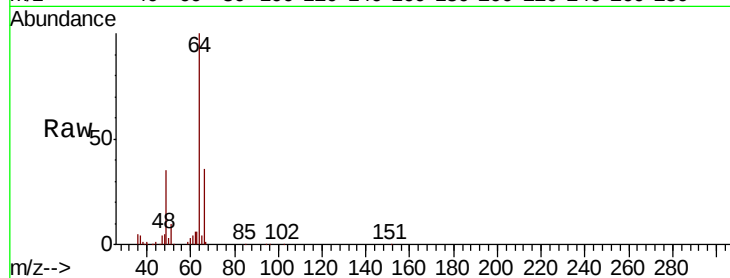
VSTDCCC010

Tgt Ion: 64 Resp: 213165

Ion Ratio Lower Upper

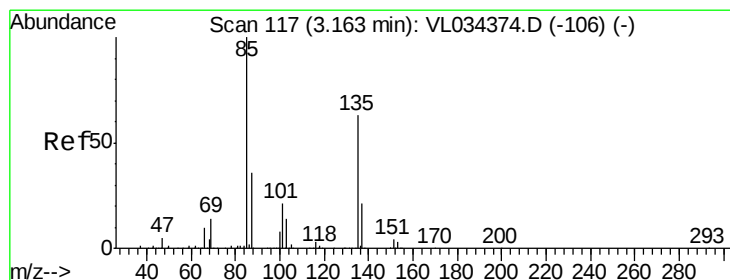
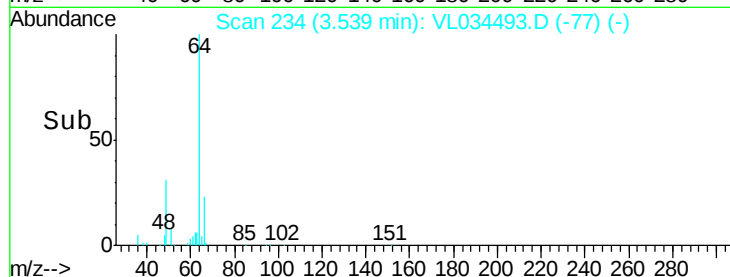
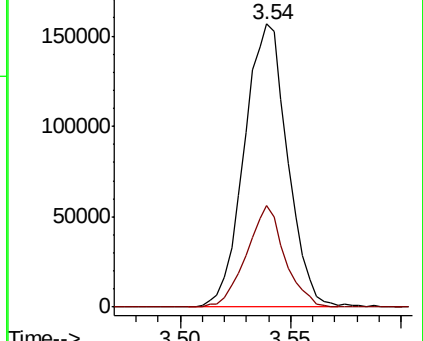
64 100

66 35.9 26.0 39.0



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 8.945 ppbv

RT: 3.16 min Scan# 117

Delta R.T. 0.00 min

Lab File: VL034493.D

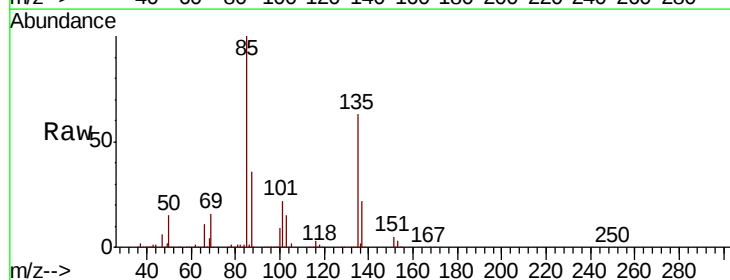
Acq: 17 Dec 2019 13:16

Tgt Ion: 85 Resp: 1368507

Ion Ratio Lower Upper

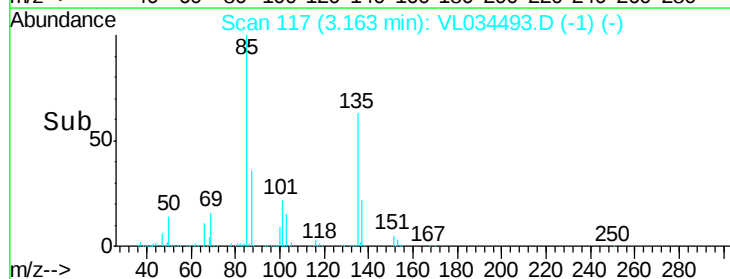
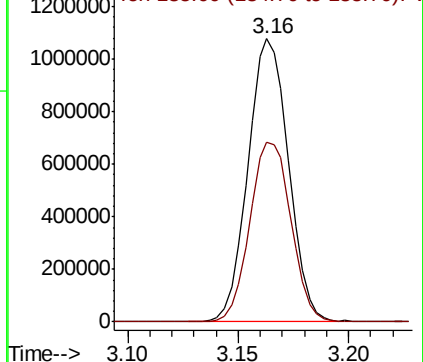
85 100

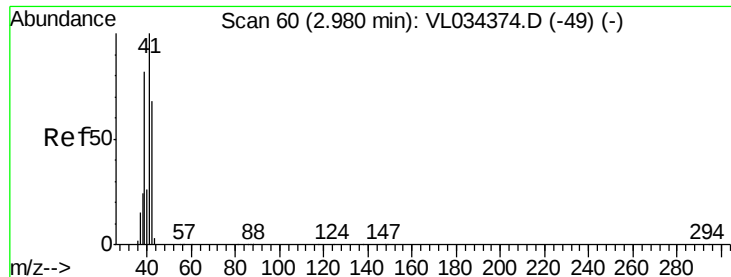
135 64.9 51.1 76.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 8.114 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

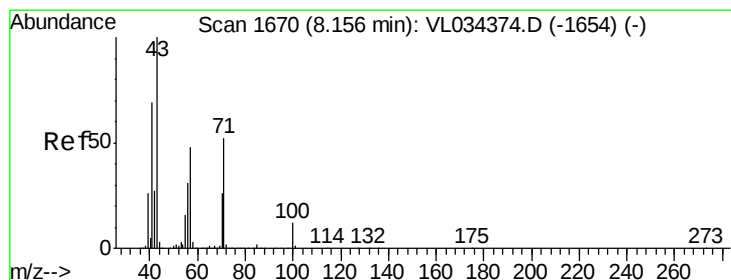
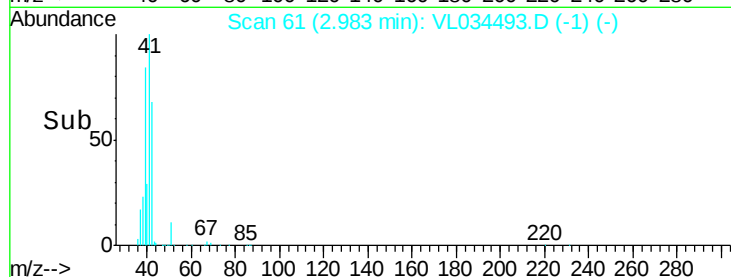
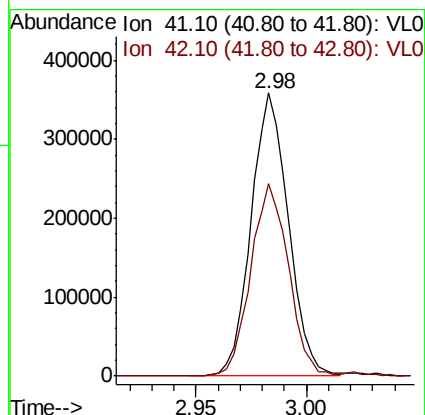
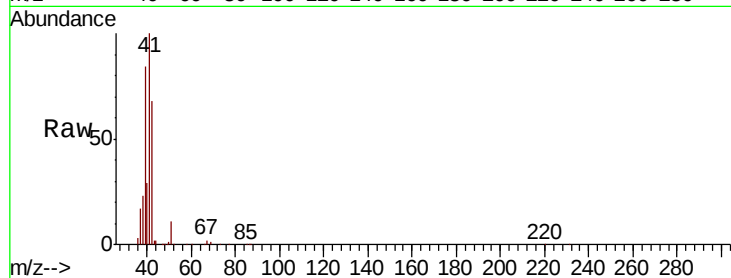
VSTDCCC010

Tgt Ion: 41 Resp: 423282

Ion Ratio Lower Upper

41 100

42 69.9 54.6 82.0



#10

Heptane

Concen: 8.611 ppbv

RT: 8.15 min Scan# 1669

Delta R.T. -0.00 min

Lab File: VL034493.D

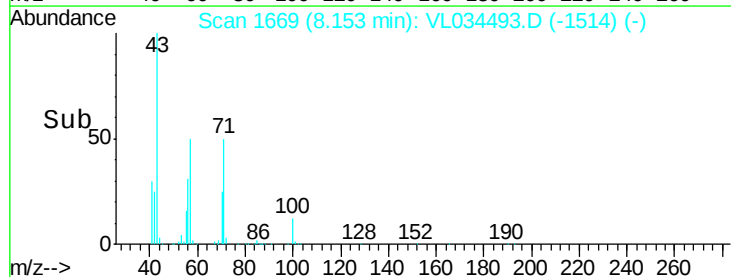
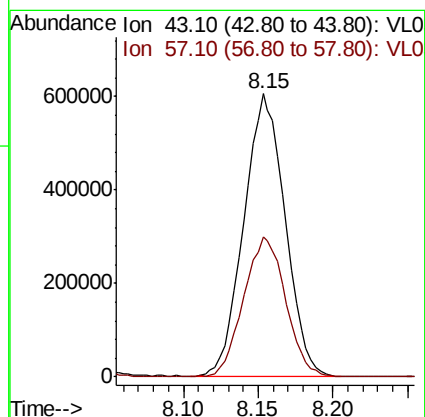
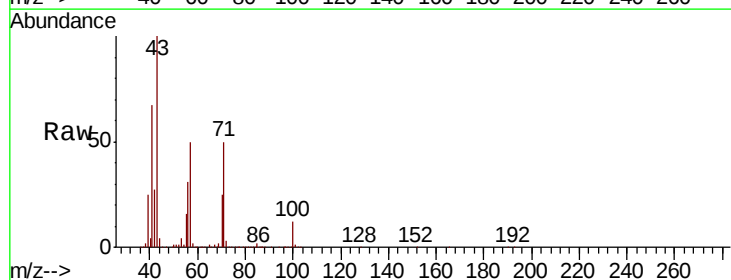
Acq: 17 Dec 2019 13:16

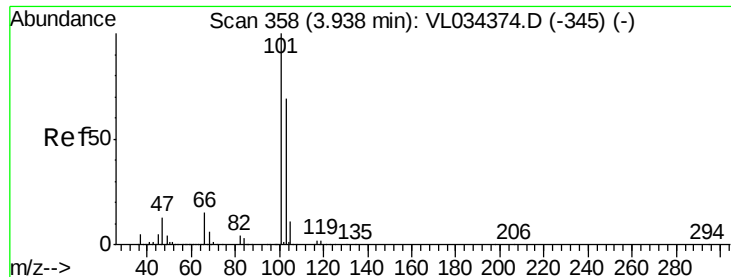
Tgt Ion: 43 Resp: 1159205

Ion Ratio Lower Upper

43 100

57 50.6 40.2 60.2

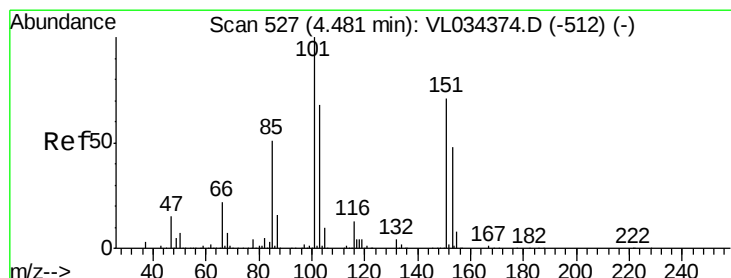
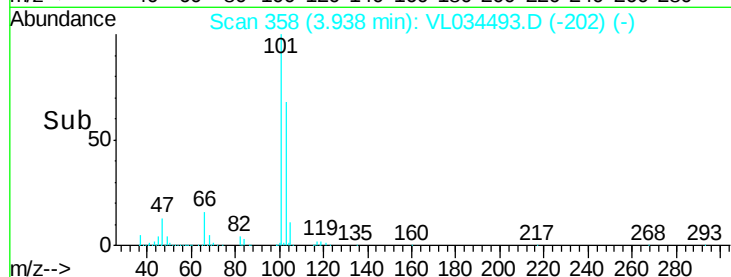
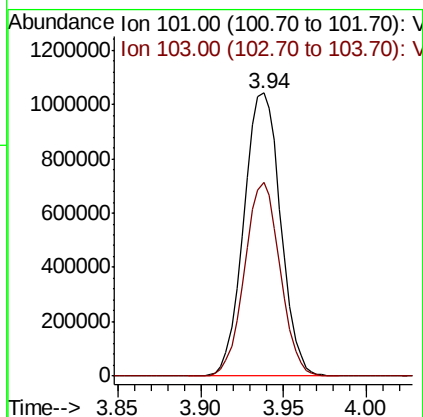
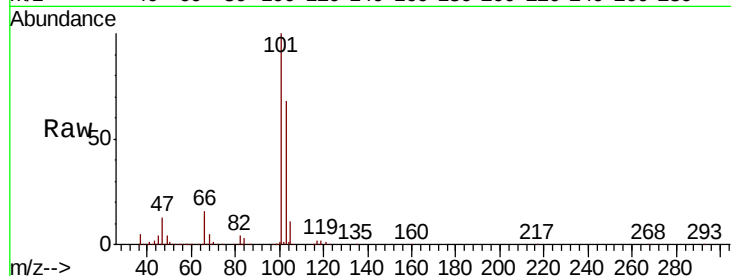




#11
 Trichlorofluoromethane
 Concen: 9.471 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. 0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

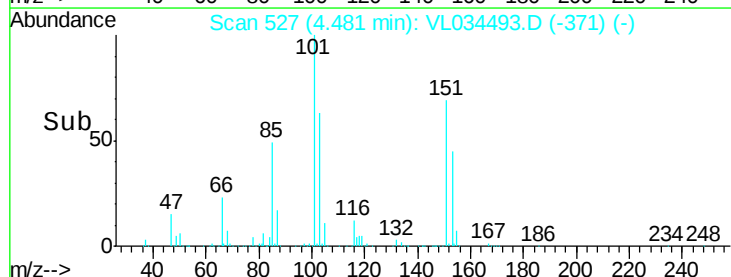
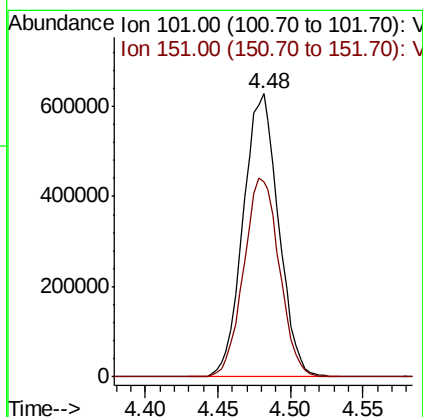
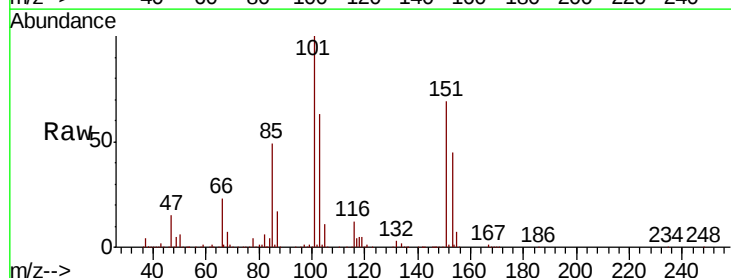
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

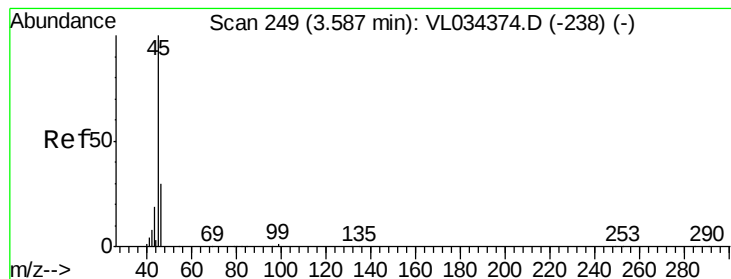
Tgt Ion:101 Resp: 1605799
 Ion Ratio Lower Upper
 101 100
 103 68.4 55.4 83.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.482 ppbv
 RT: 4.48 min Scan# 527
 Delta R.T. 0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Tgt Ion:101 Resp: 1067626
 Ion Ratio Lower Upper
 101 100
 151 71.0 57.4 86.2





#13

Ethanol

Concen: 8.802 ppbv

RT: 3.59 min Scan# 250

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

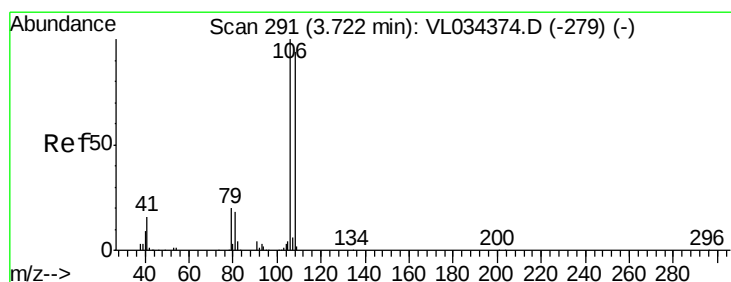
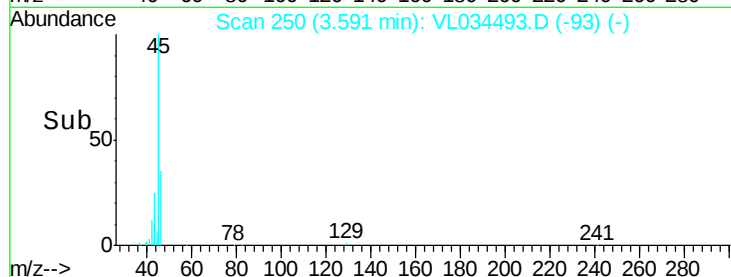
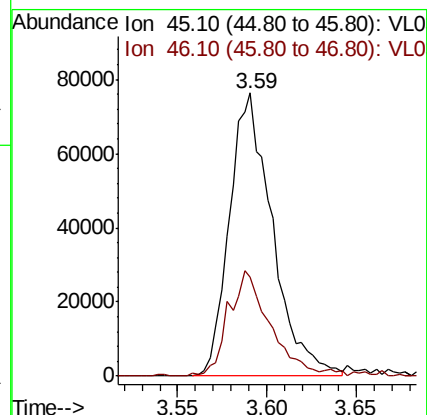
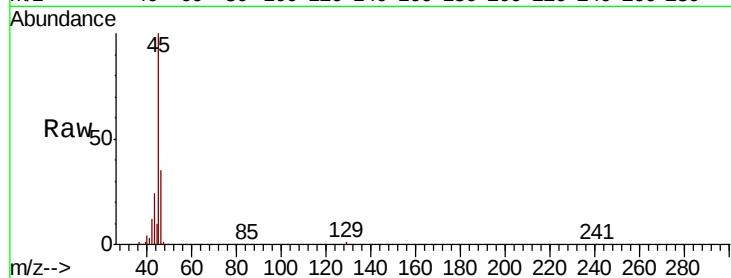
VSTDCCC010

Tgt Ion: 45 Resp: 127901

Ion Ratio Lower Upper

45 100

46 36.5 13.8 55.4



#14

Bromoethene

Concen: 9.245 ppbv

RT: 3.72 min Scan# 291

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

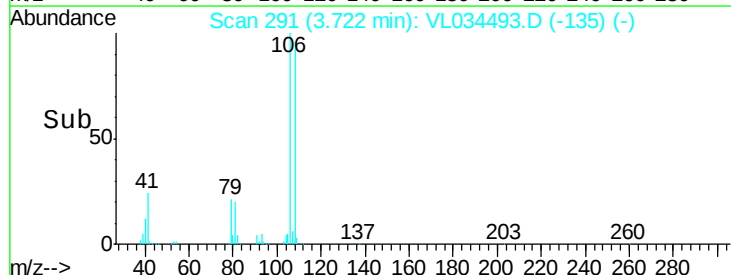
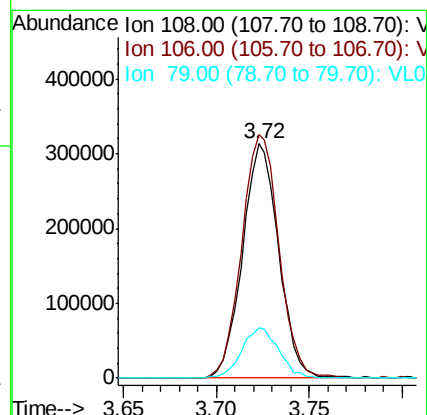
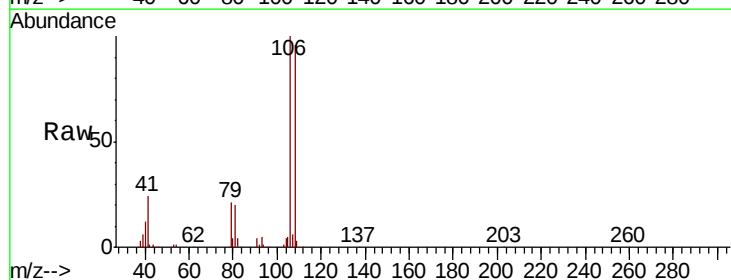
Tgt Ion: 108 Resp: 423273

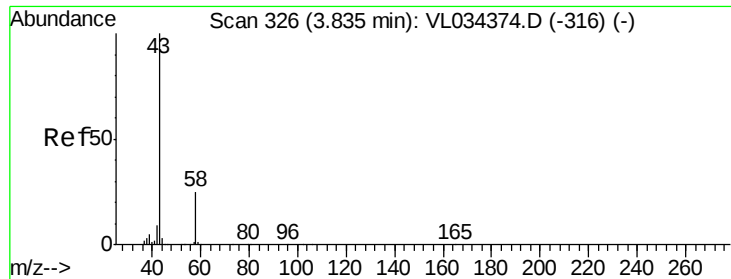
Ion Ratio Lower Upper

108 100

106 108.2 85.7 128.5

79 22.3 17.2 25.8

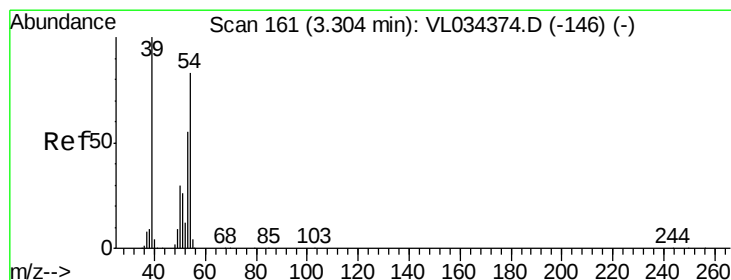
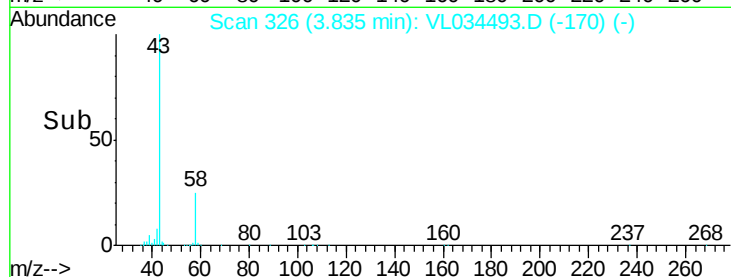
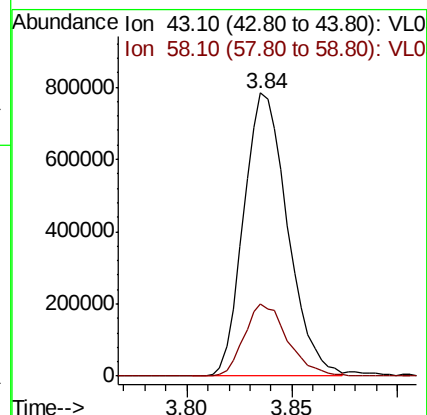
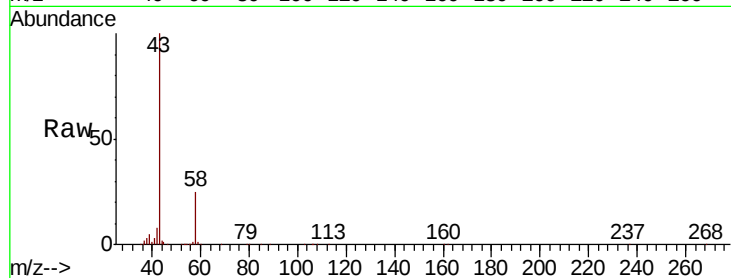




#15
Acetone
Concen: 8.419 ppbv
RT: 3.84 min Scan# 326
Delta R.T. 0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

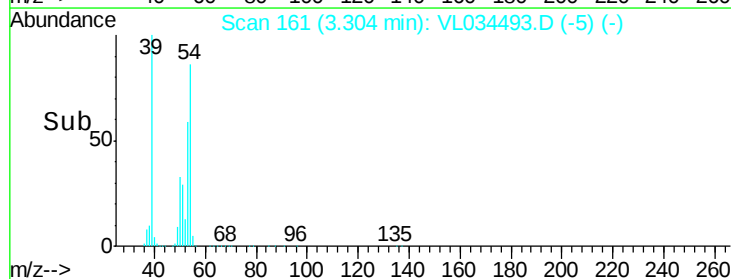
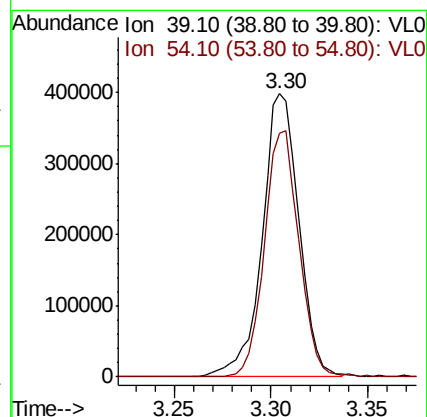
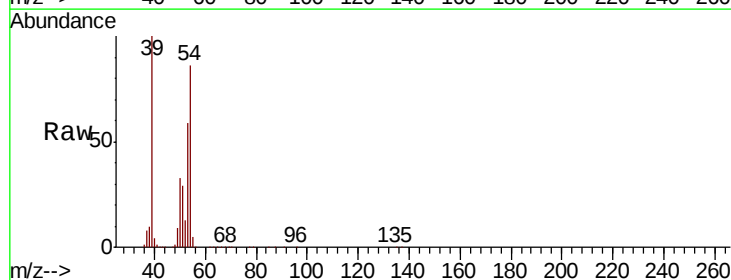
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

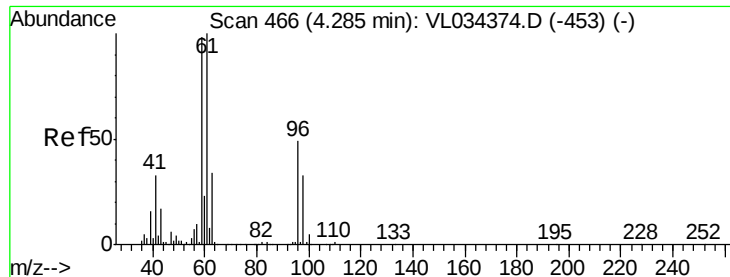
Tgt Ion: 43 Resp: 1135312
Ion Ratio Lower Upper
43 100
58 25.4 20.2 30.4



#16
1,3-Butadiene
Concen: 8.947 ppbv
RT: 3.30 min Scan# 161
Delta R.T. 0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Tgt Ion: 39 Resp: 525553
Ion Ratio Lower Upper
39 100
54 82.0 64.7 97.1





#17

tert-Butyl alcohol
Concen: 10.298 ppbv
RT: 4.29 min Scan# 466
Delta R.T. 0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

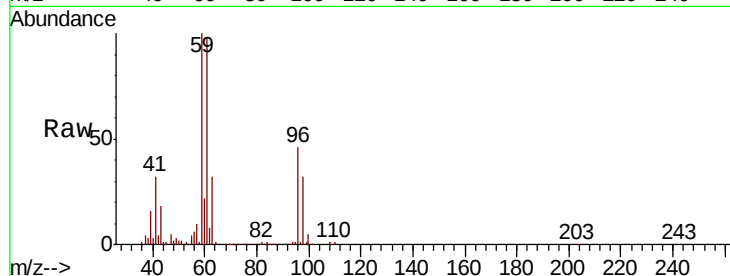
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 59 Resp: 1167284

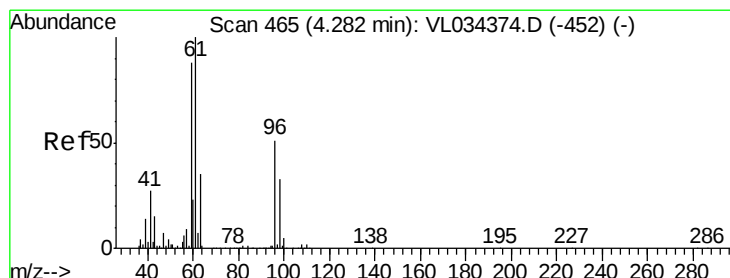
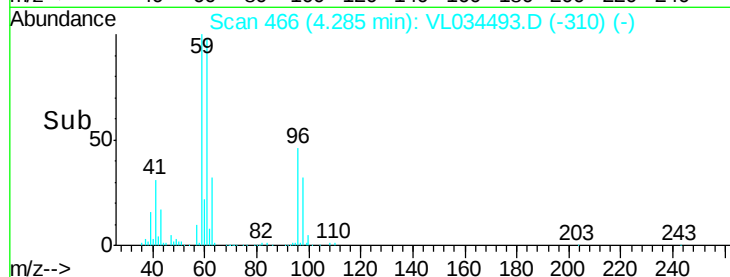
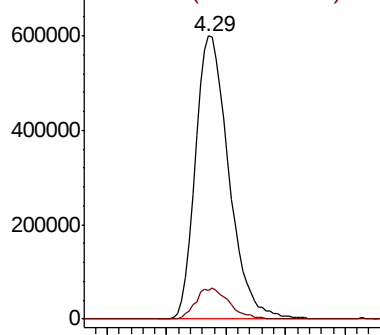
Ion Ratio Lower Upper

59 100

57 11.1 8.8 13.2



Abundance Ion 59.10 (58.80 to 59.80): VL0
Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene
Concen: 9.329 ppbv
RT: 4.28 min Scan# 465
Delta R.T. 0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

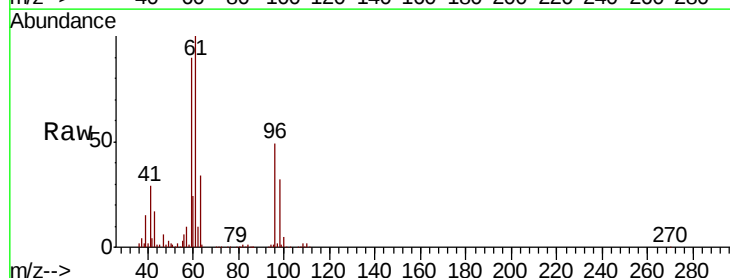
Tgt Ion: 96 Resp: 459506

Ion Ratio Lower Upper

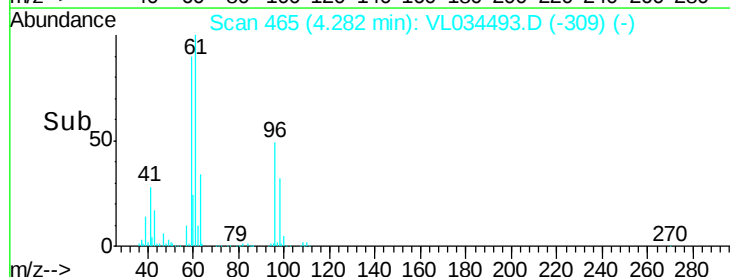
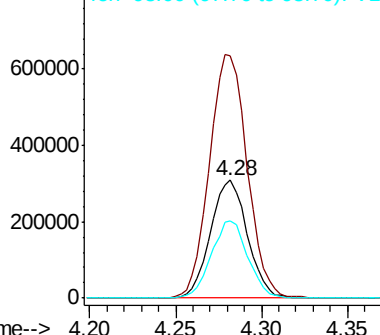
96 100

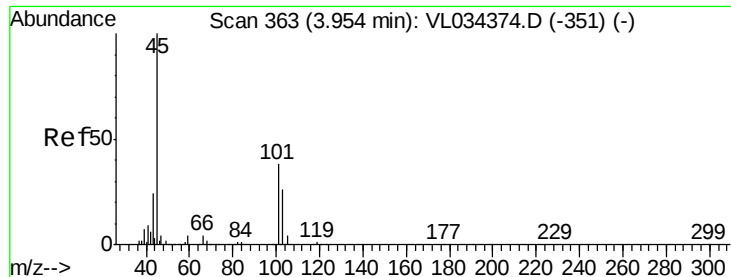
61 205.1 155.6 233.4

98 65.3 51.6 77.4



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



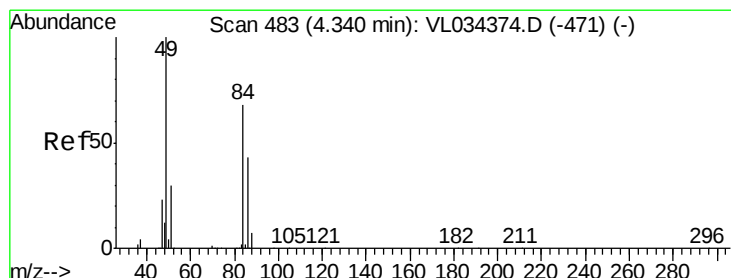
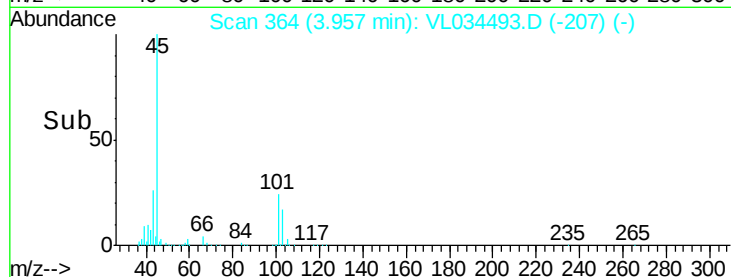
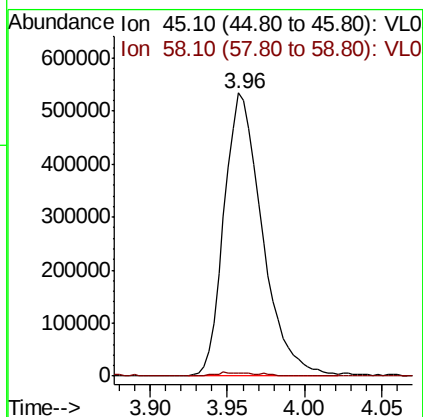
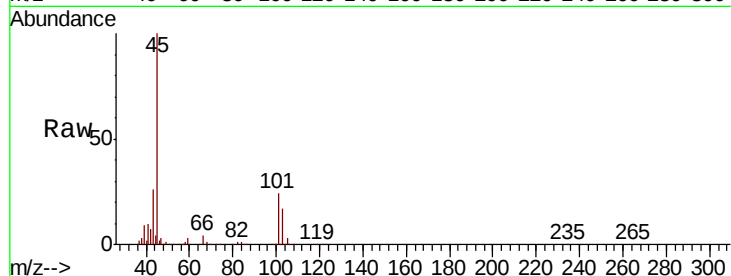


#19

Isopropyl Alcohol
 Concen: 10.582 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. 0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

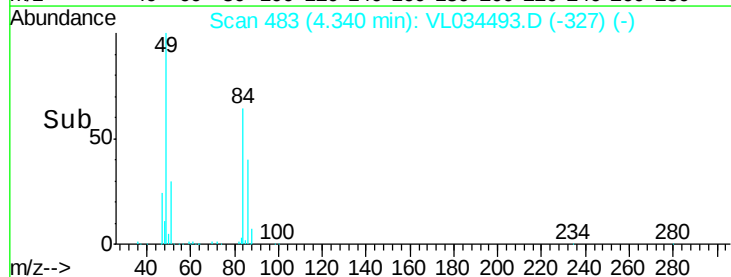
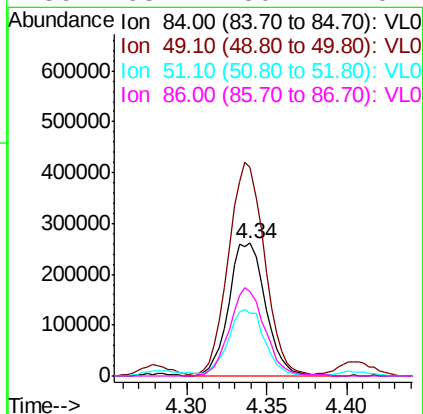
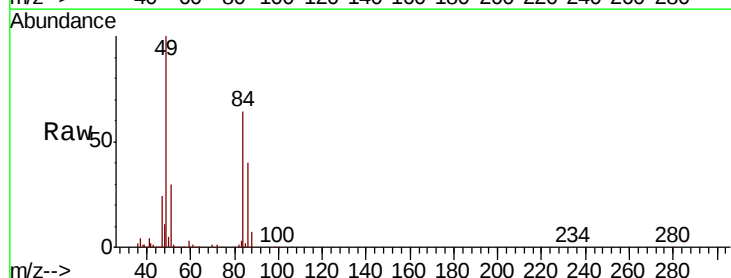
Tgt Ion: 45 Resp: 914681
 Ion Ratio Lower Upper
 45 100
 58 1.7 1.3 1.9

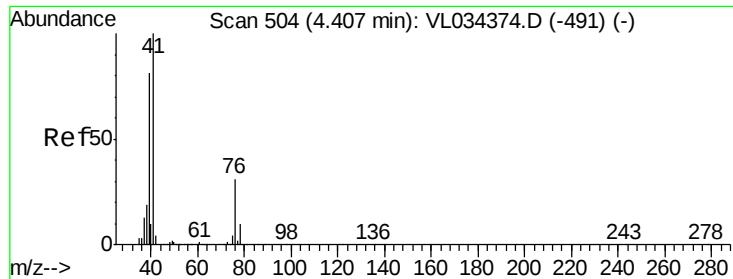


#20

Methylene Chloride
 Concen: 8.519 ppbv
 RT: 4.34 min Scan# 483
 Delta R.T. 0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Tgt Ion: 84 Resp: 407354
 Ion Ratio Lower Upper
 84 100
 49 156.1 116.8 175.2
 51 45.4 35.6 53.4
 86 63.4 50.7 76.1





#21

Allyl Chloride

Concen: 9.601 ppbv

RT: 4.41 min Scan# 504

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

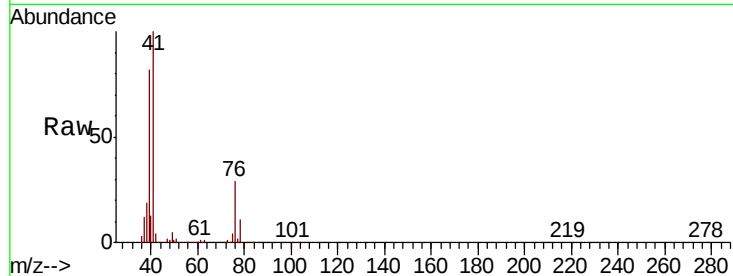
Tgt Ion: 41 Resp: 775805

Ion Ratio Lower Upper

41 100

76 29.7 24.2 36.2

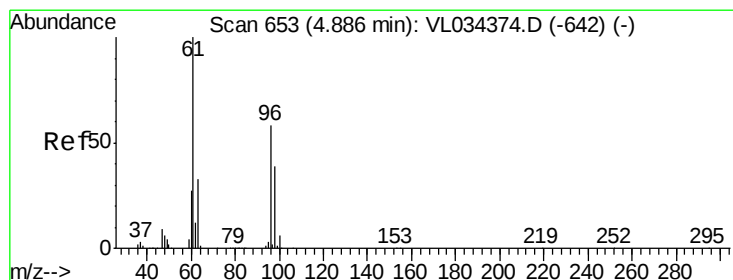
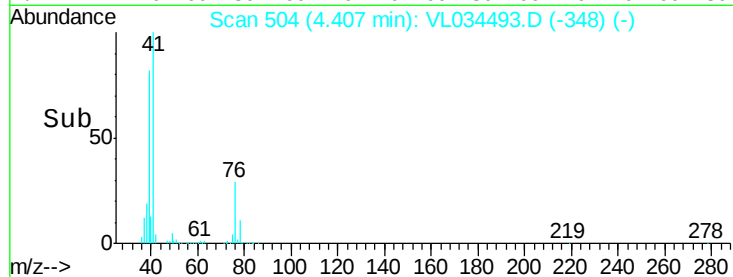
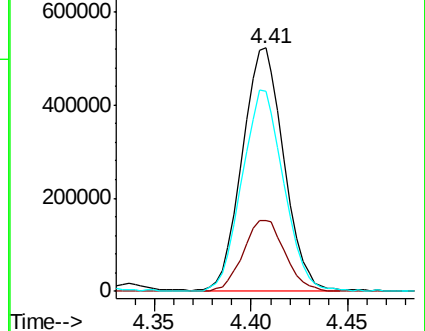
39 83.5 66.9 100.3



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: 9.361 ppbv

RT: 4.89 min Scan# 653

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

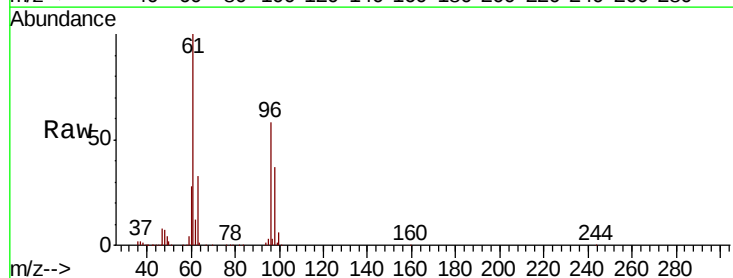
Tgt Ion: 96 Resp: 464774

Ion Ratio Lower Upper

96 100

61 171.1 137.9 206.9

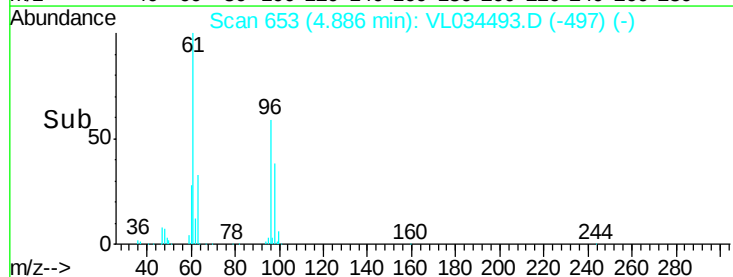
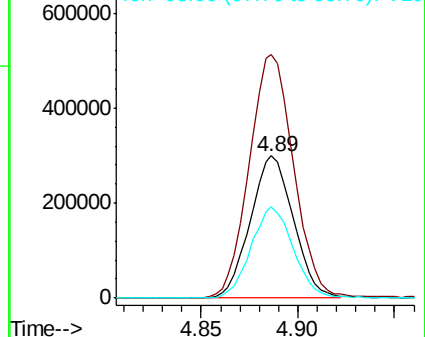
98 64.1 53.5 80.3

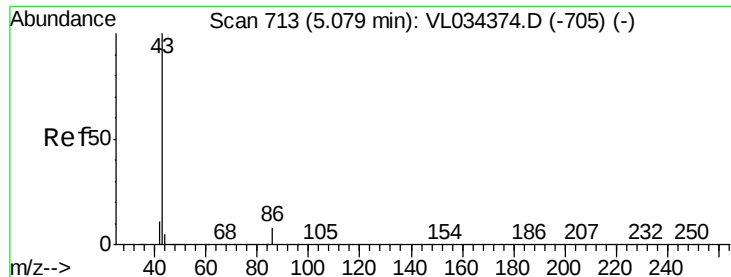


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



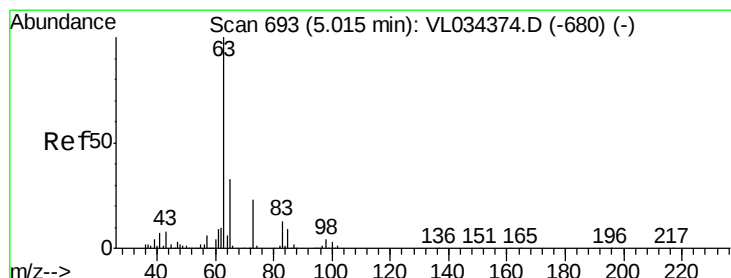
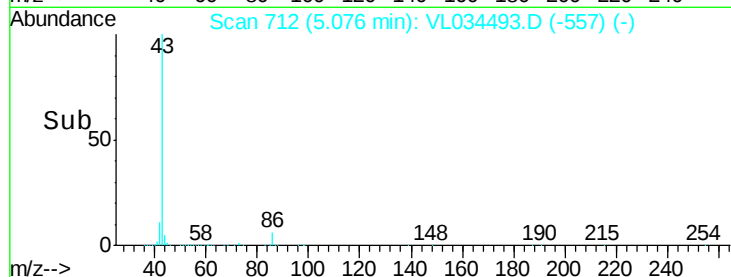
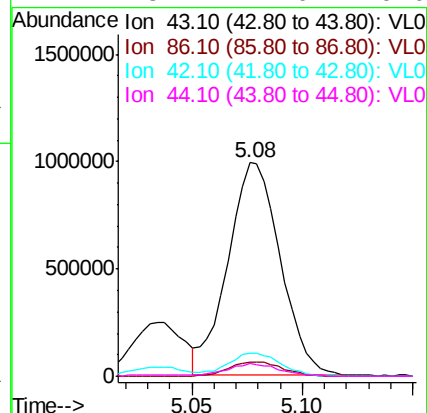
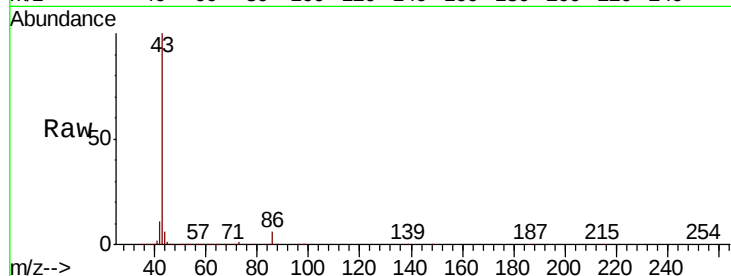


#23
 Vinyl Acetate
 Concen: 9.231 ppbv
 RT: 5.08 min Scan# 712
 Delta R.T. -0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 43 Resp: 1626053

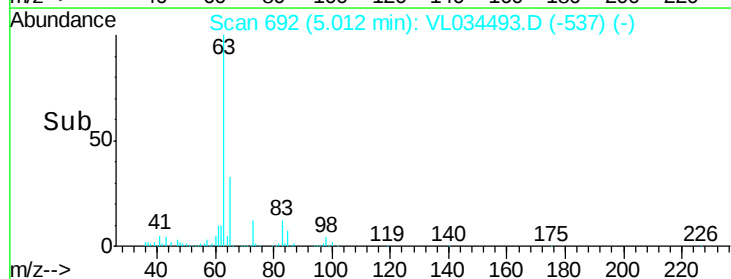
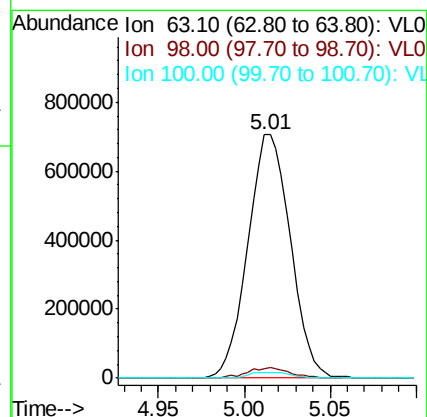
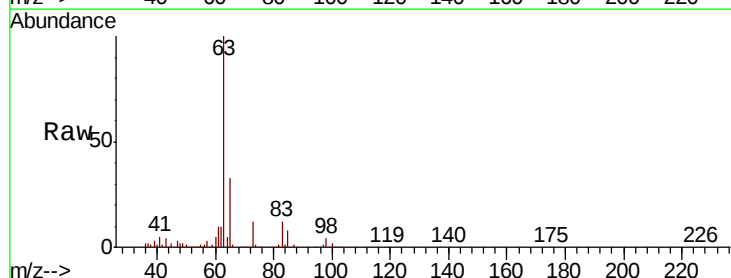
Ion	Ratio	Lower	Upper
43	100		
86	6.4	5.8	8.6
42	10.7	8.9	13.3
44	5.7	4.0	6.0

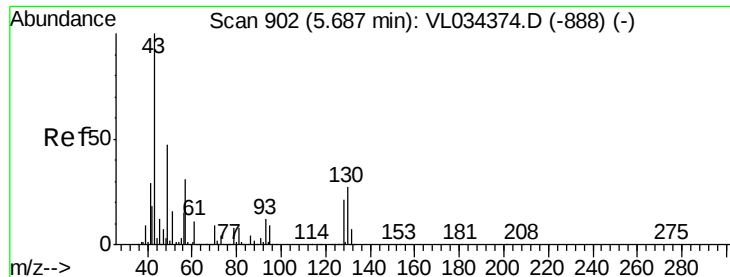


#24
 1,1-Dichloroethane
 Concen: 8.924 ppbv
 RT: 5.01 min Scan# 692
 Delta R.T. -0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Tgt Ion: 63 Resp: 1207549

Ion	Ratio	Lower	Upper
63	100		
98	3.8	1.9	5.7
100	2.1	1.4	4.0





#25

Ethyl Acetate

Concen: 8.333 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 43 Resp: 2005137

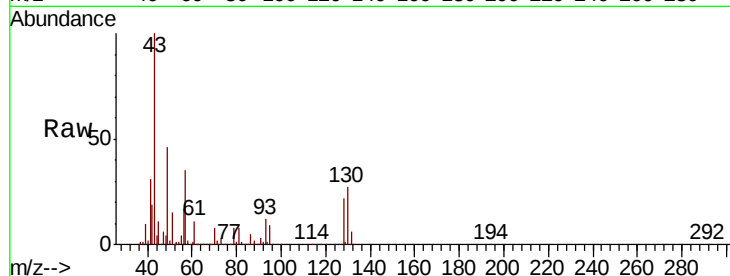
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.2	12.4
61	9.6	7.5	11.3
70	6.8	5.7	8.5

43 100

45 10.4 8.2 12.4

61 9.6 7.5 11.3

70 6.8 5.7 8.5



Abundance

Ion 43.10 (42.80 to 43.80): VL0

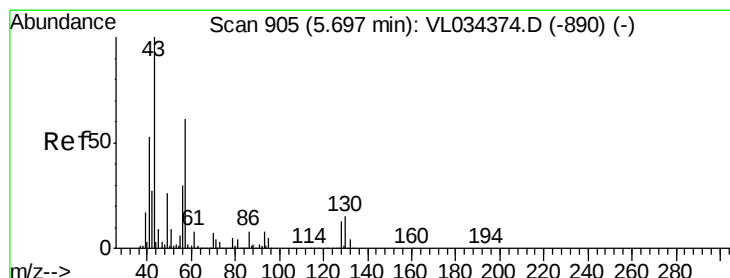
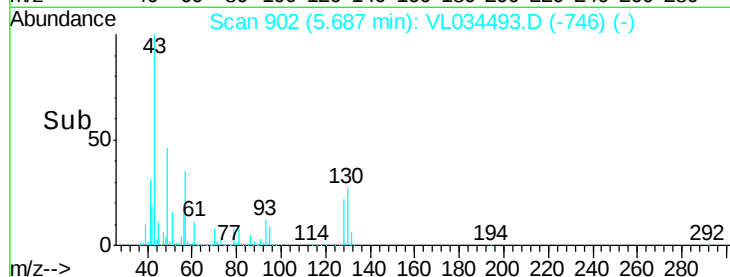
Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

5.69

Time-->



#26

Hexane

Concen: 8.583 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Tgt Ion: 57 Resp: 887504

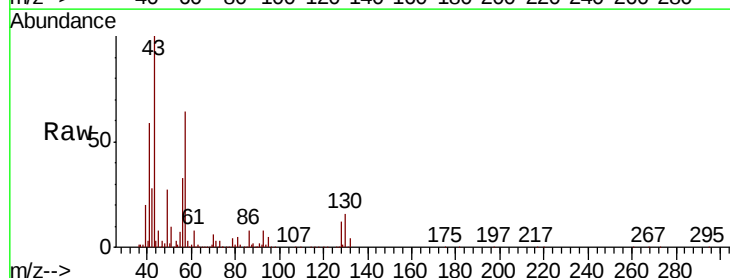
Ion	Ratio	Lower	Upper
57	100		
41	95.1	75.0	112.4
43	226.6	186.6	279.8
56	53.2	41.5	62.3

57 100

41 95.1 75.0 112.4

43 226.6 186.6 279.8

56 53.2 41.5 62.3



Abundance

Ion 57.10 (56.80 to 57.80): VL0

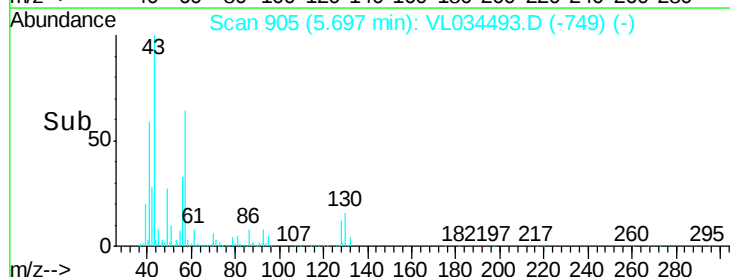
Ion 41.10 (40.80 to 41.80): VL0

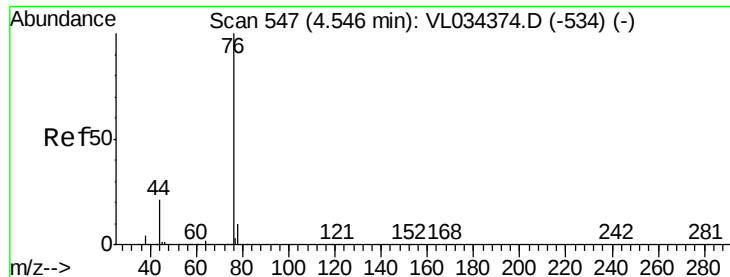
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

5.70

Time-->





#27

Carbon Disulfide

Concen: 10.632 ppbv

RT: 4.55 min Scan# 547

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

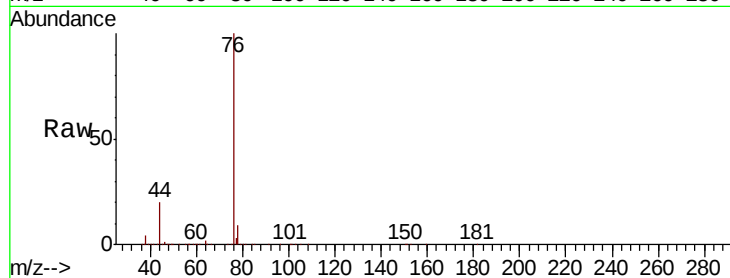
Tgt Ion: 76 Resp: 1197359

Ion Ratio Lower Upper

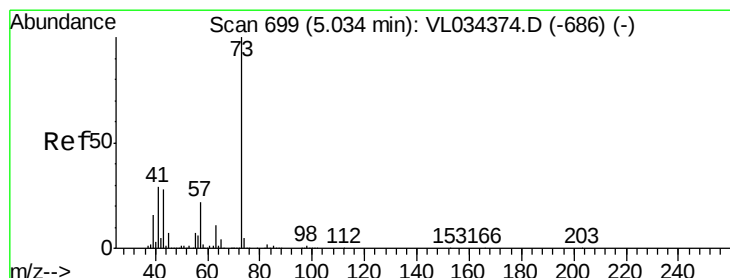
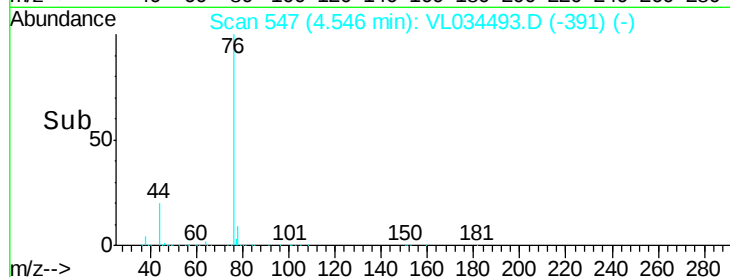
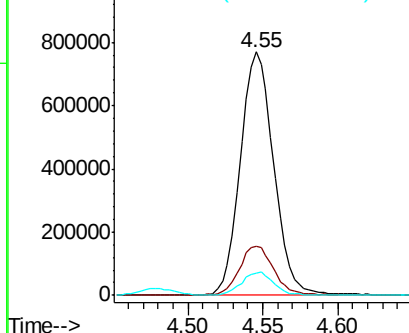
76 100

44 20.4 17.0 25.4

78 9.2 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: 8.944 ppbv

RT: 5.03 min Scan# 699

Delta R.T. 0.00 min

Lab File: VL034493.D

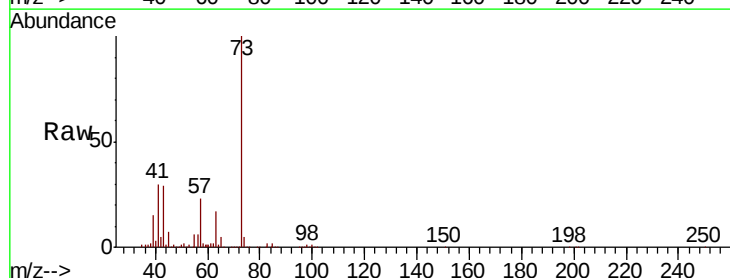
Acq: 17 Dec 2019 13:16

Tgt Ion: 73 Resp: 1533457

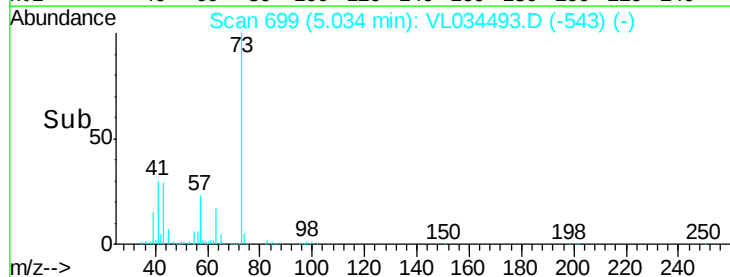
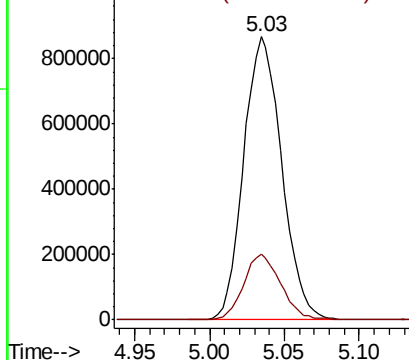
Ion Ratio Lower Upper

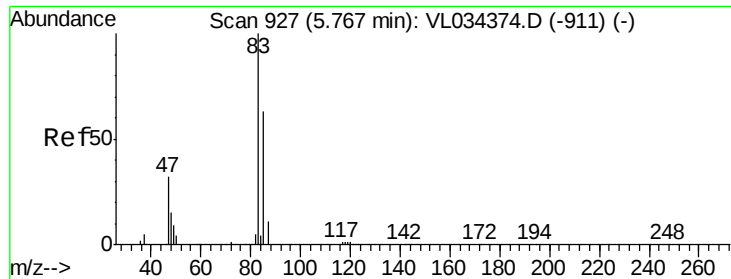
73 100

57 22.9 18.4 27.6



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





#29

Chloroform

Concen: 8.834 ppbv

RT: 5.77 min Scan# 927

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

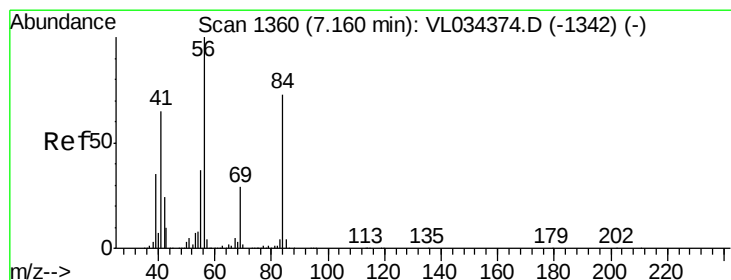
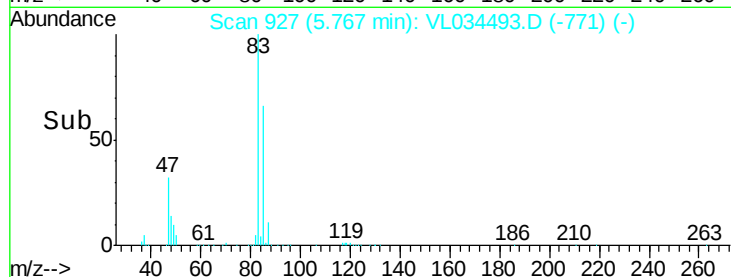
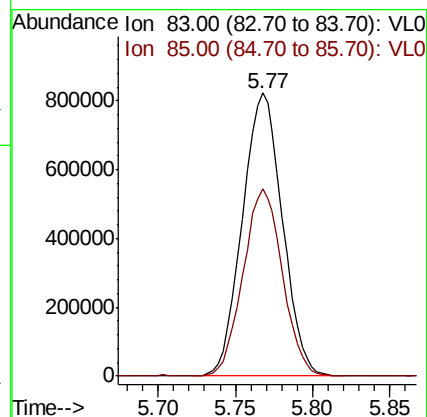
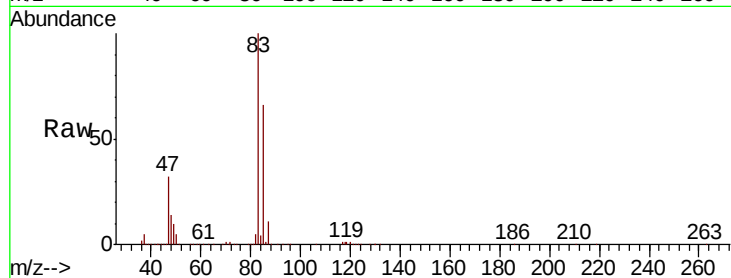
VSTDCCC010

Tgt Ion: 83 Resp: 1479216

Ion Ratio Lower Upper

83 100

85 66.3 50.4 75.6



#30

Cyclohexane

Concen: 8.928 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

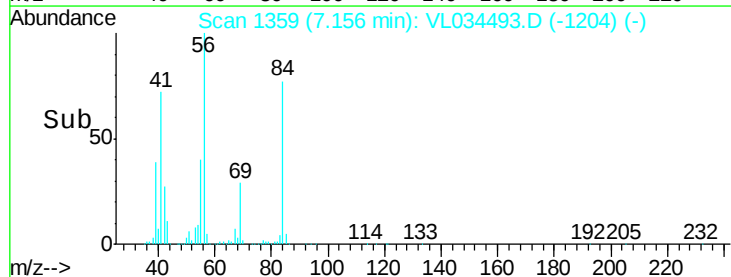
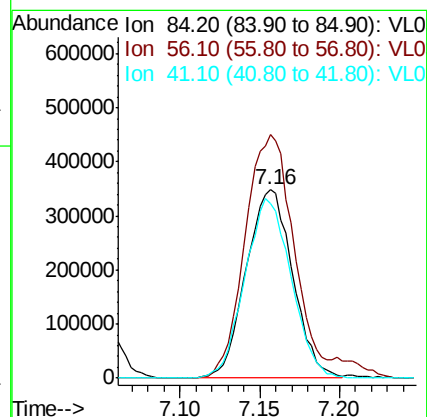
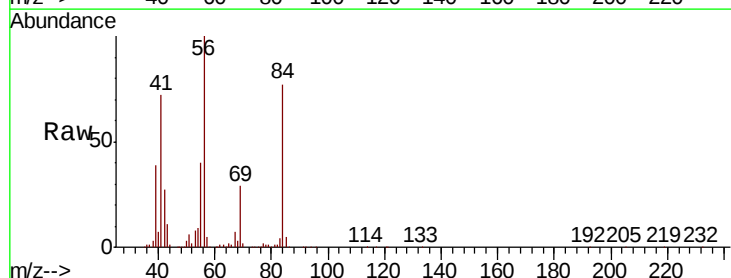
Tgt Ion: 84 Resp: 697908

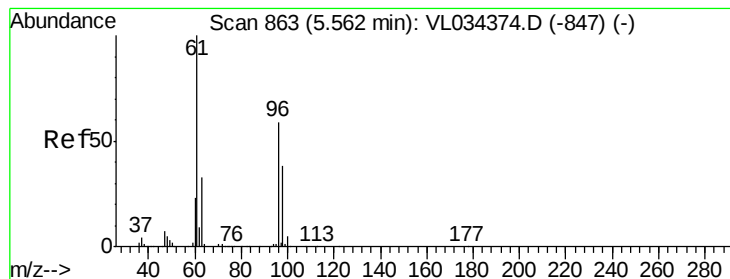
Ion Ratio Lower Upper

84 100

56 141.6 112.6 169.0

41 94.3 73.4 110.2



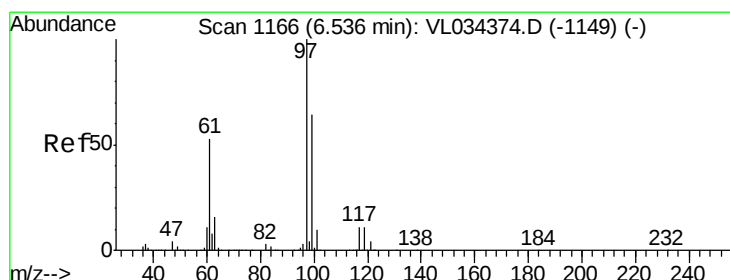
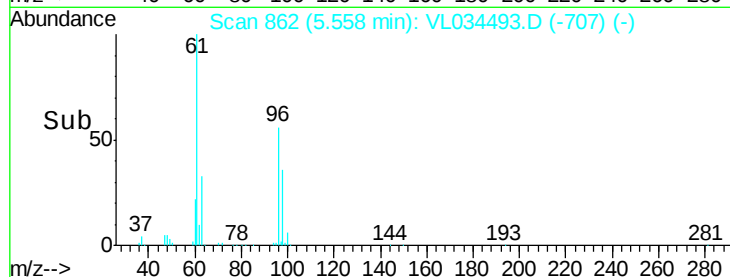
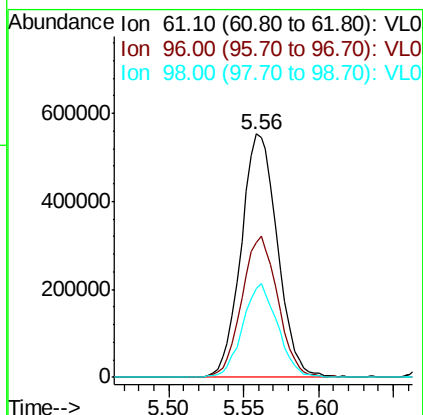
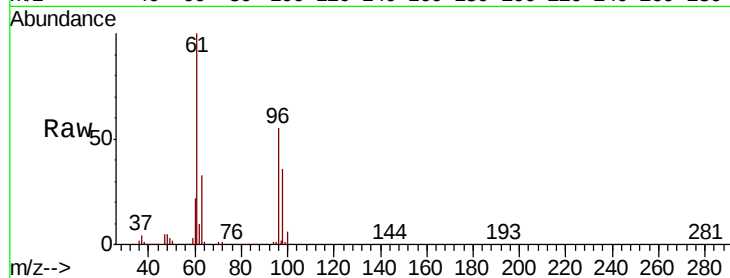


#31

cis-1,2-Dichloroethene
 Concen: 8.743 ppbv
 RT: 5.56 min Scan# 862
 Delta R.T. -0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

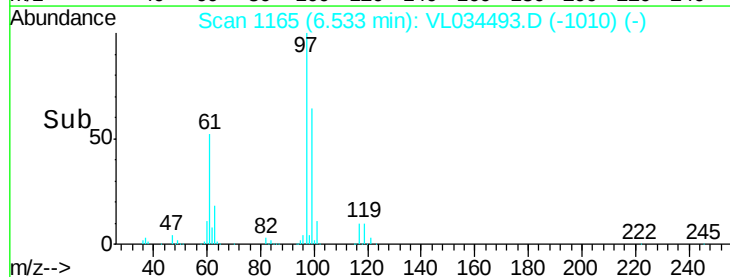
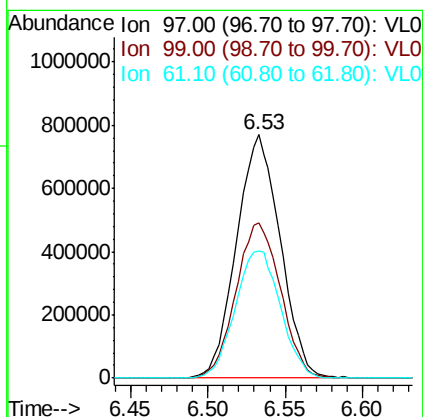
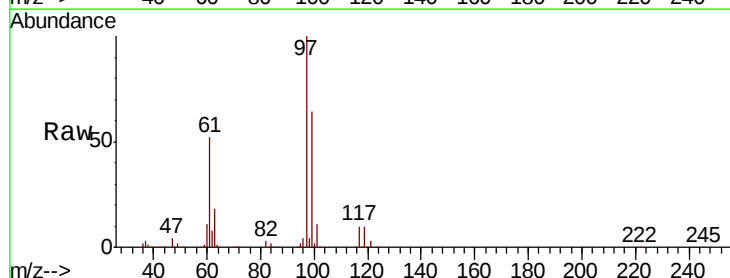
Tgt Ion	Ratio	Lower	Upper
61	100		
96	55.4	47.4	71.2
98	36.3	30.6	45.8

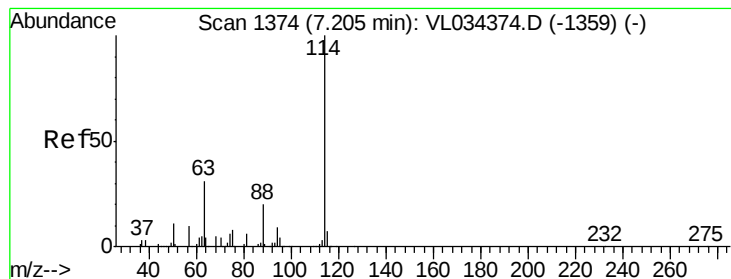


#32

1,1,1-Trichloroethane
 Concen: 9.608 ppbv
 RT: 6.53 min Scan# 1165
 Delta R.T. -0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.5	52.3	78.5
61	54.5	43.7	65.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 min Scan# 1374

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

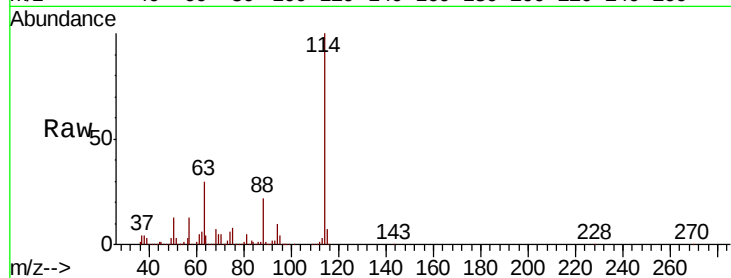
Tgt Ion:114 Resp: 1906503

Ion Ratio Lower Upper

114 100

63 30.2 24.2 36.4

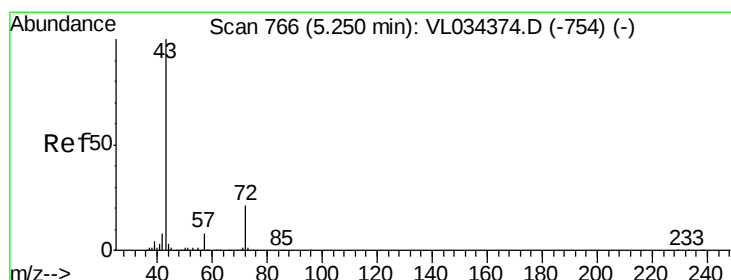
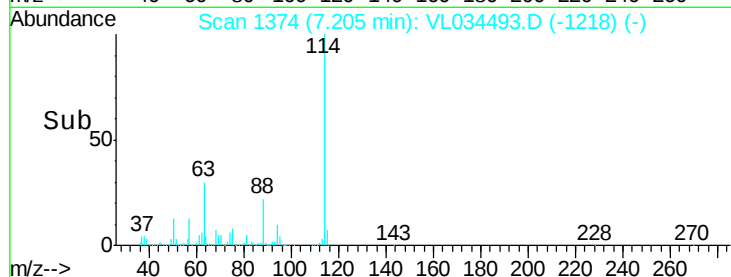
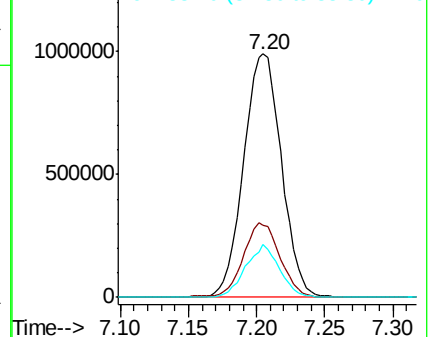
88 19.5 15.9 23.9



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 8.536 ppbv

RT: 5.25 min Scan# 766

Delta R.T. 0.00 min

Lab File: VL034493.D

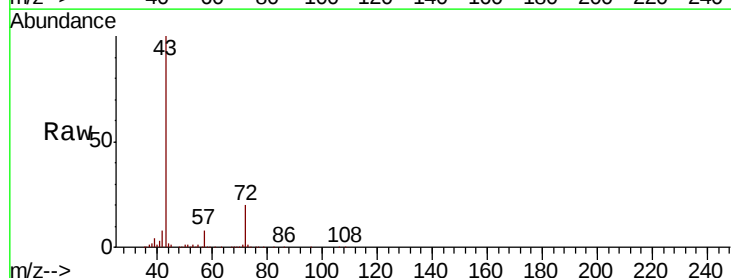
Acq: 17 Dec 2019 13:16

Tgt Ion: 43 Resp: 1339560

Ion Ratio Lower Upper

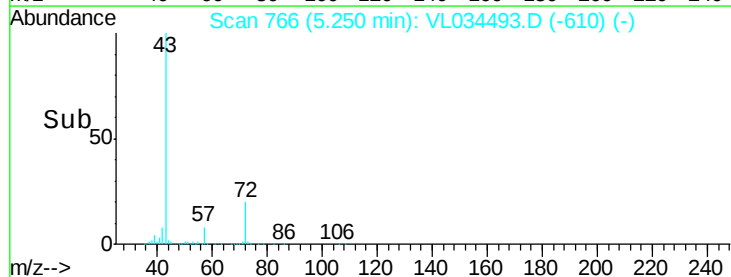
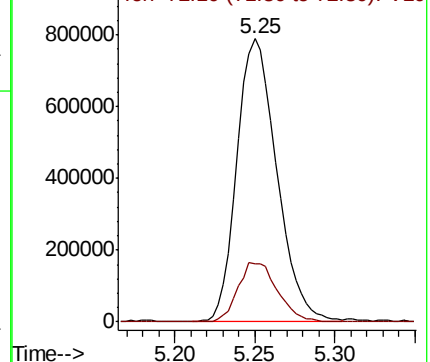
43 100

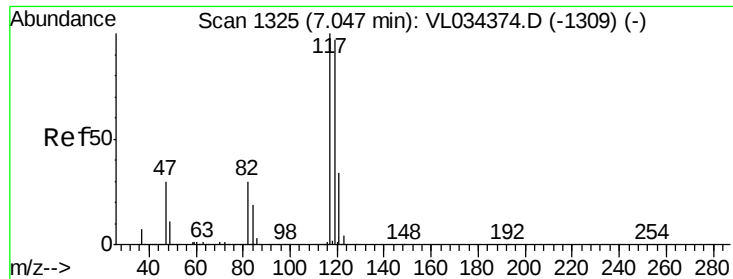
72 20.9 17.0 25.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.912 ppbv

RT: 7.04 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

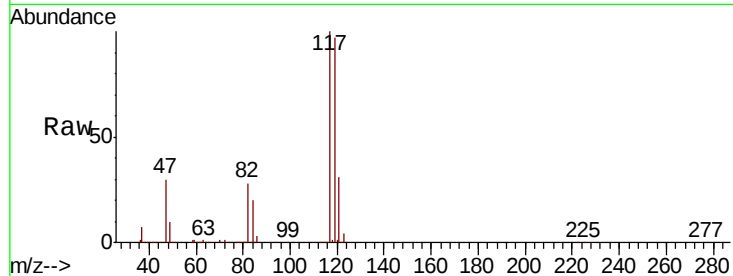
Tgt Ion:117 Resp: 1624741

Ion Ratio Lower Upper

117 100

119 96.7 77.3 115.9

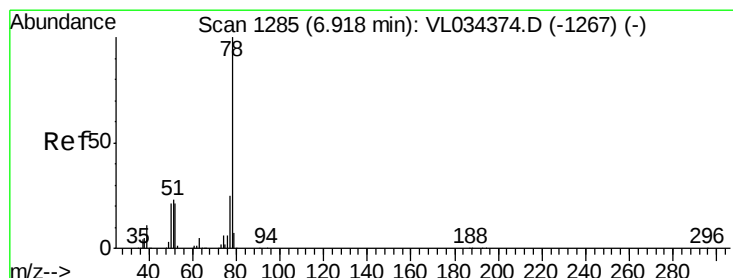
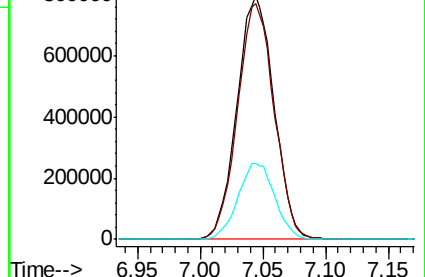
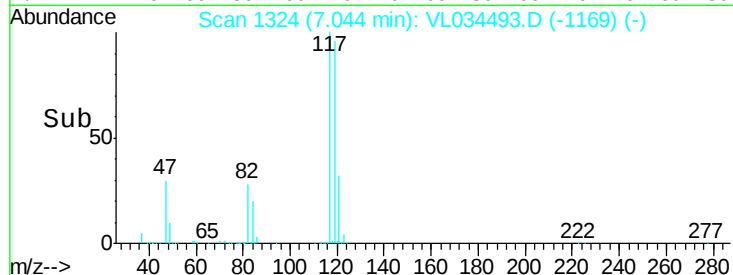
121 31.4 27.4 41.2



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: 8.607 ppbv

RT: 6.92 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

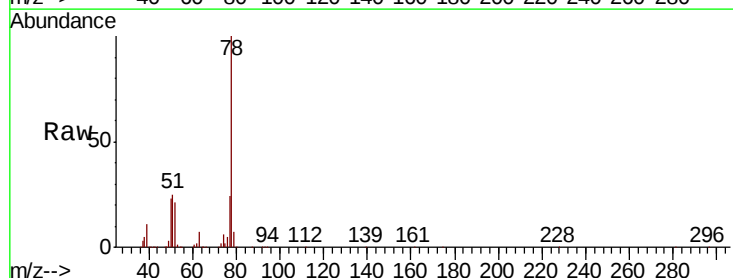
Tgt Ion: 78 Resp: 1640368

Ion Ratio Lower Upper

78 100

77 24.2 20.2 30.4

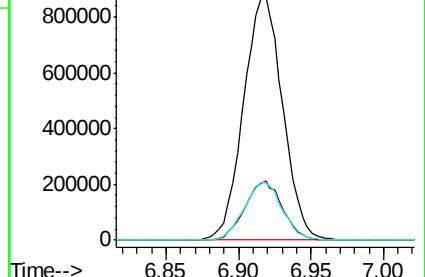
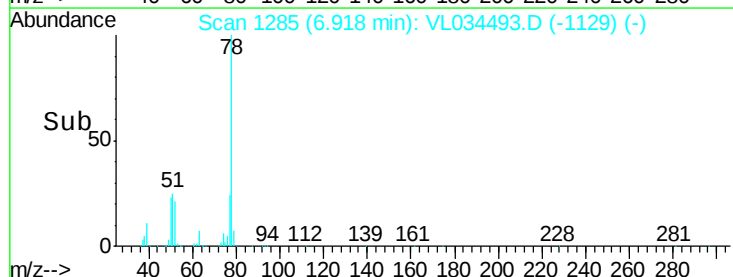
50 23.3 17.1 25.7

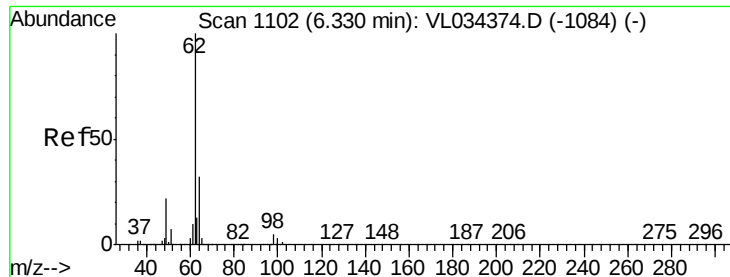


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 8.968 ppbv

RT: 6.33 min Scan# 1101

Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

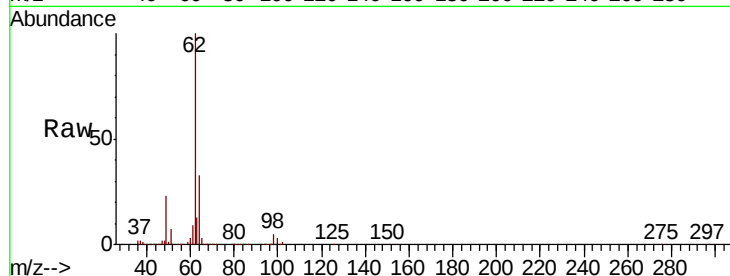
VSTDCCC010

Tgt Ion: 62 Resp: 1269699

Ion Ratio Lower Upper

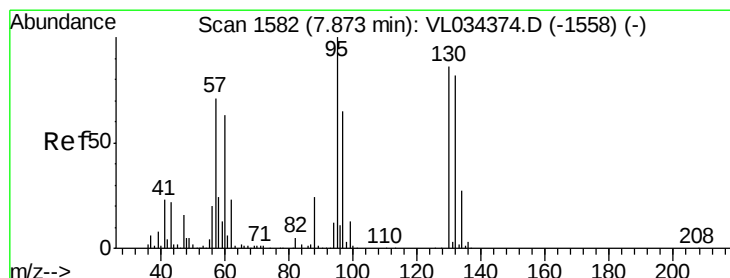
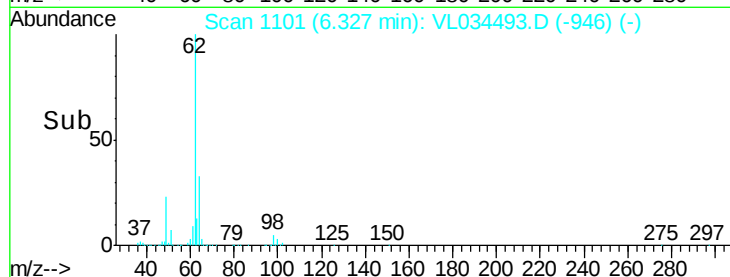
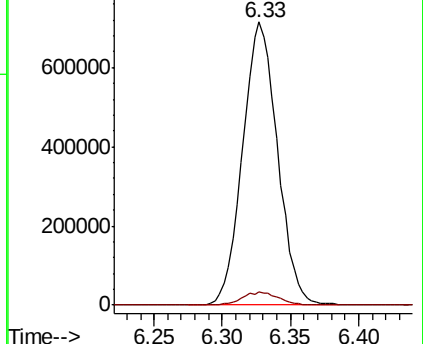
62 100

98 4.8 3.8 5.8



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 8.582 ppbv

RT: 7.87 min Scan# 1580

Delta R.T. -0.01 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Tgt Ion: 130 Resp: 671230

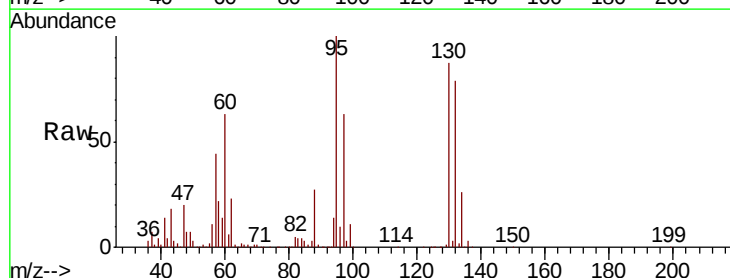
Ion Ratio Lower Upper

130 100

95 115.2 93.4 140.0

132 90.9 76.4 114.6

97 71.6 61.1 91.7

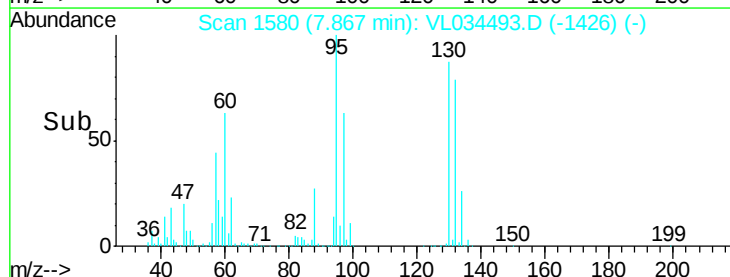
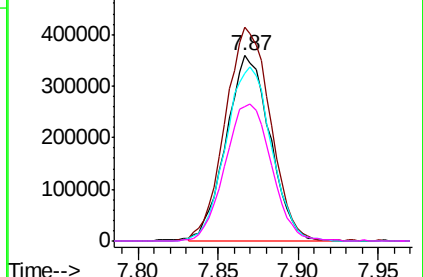


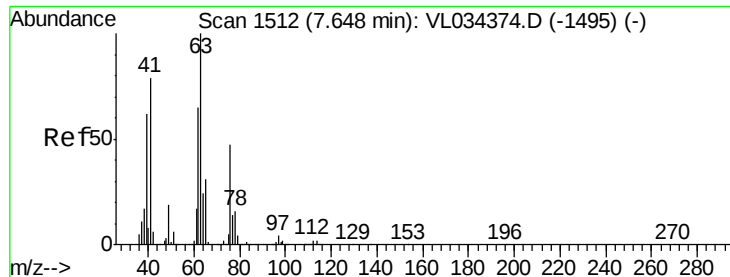
Abundance Ion 130.00 (129.70 to 130.70): V

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: 9.458 ppbv

RT: 7.65 min Scan# 1511

Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

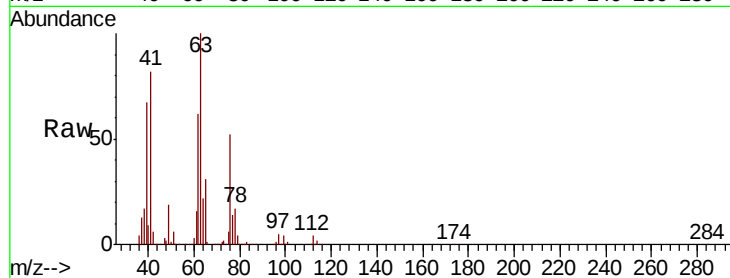
Tgt Ion: 63 Resp: 694438

Ion Ratio Lower Upper

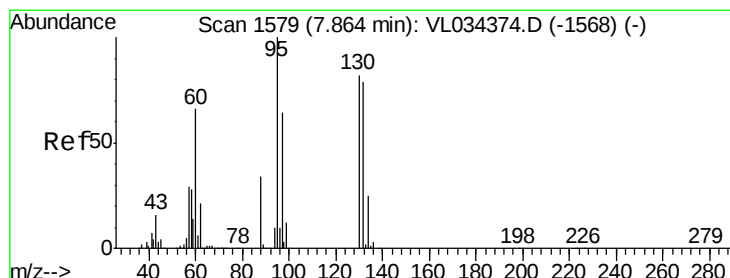
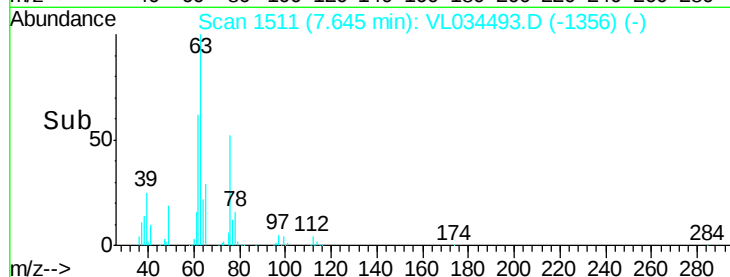
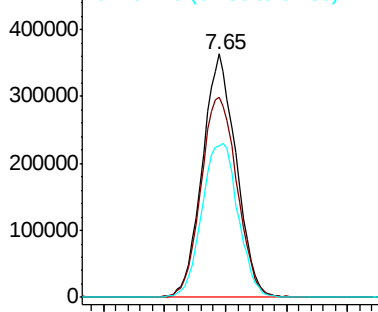
63 100

41 82.4 63.1 94.7

62 62.1 52.3 78.5



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: 8.361 ppbv

RT: 7.86 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Tgt Ion: 88 Resp: 268176

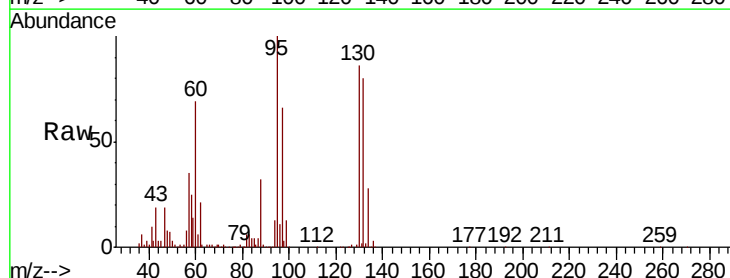
Ion Ratio Lower Upper

88 100

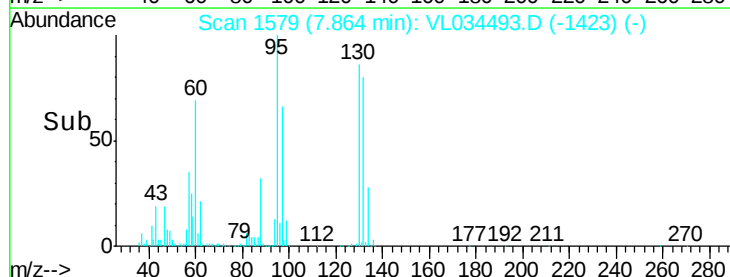
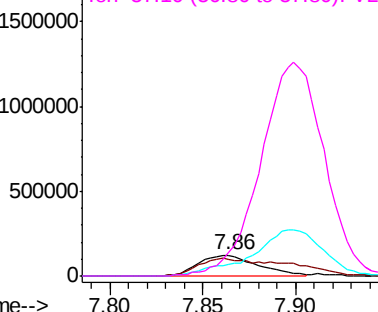
58 139.2 109.5 164.3

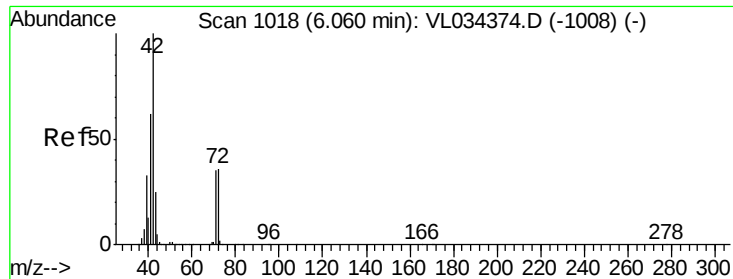
43 0.0 0.0 0.0

57 0.0 0.0 0.0



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: 8.538 ppbv

RT: 6.06 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

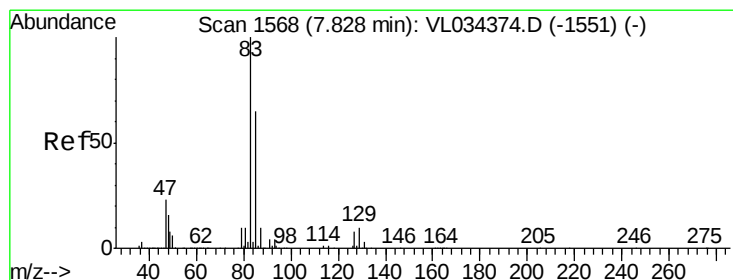
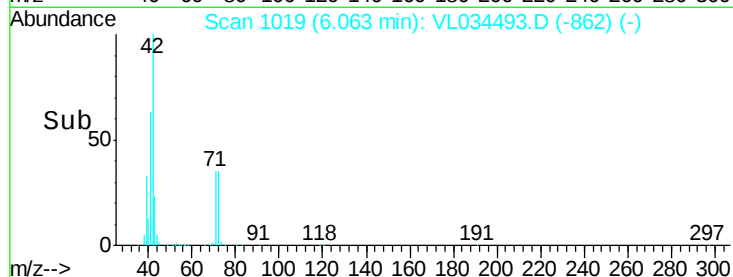
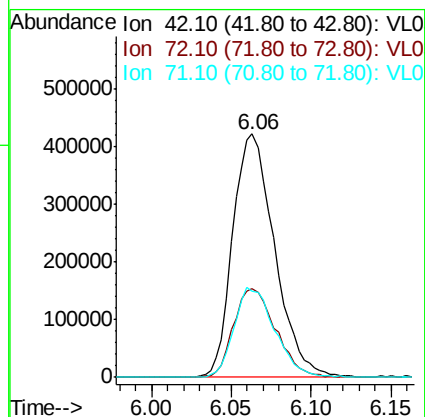
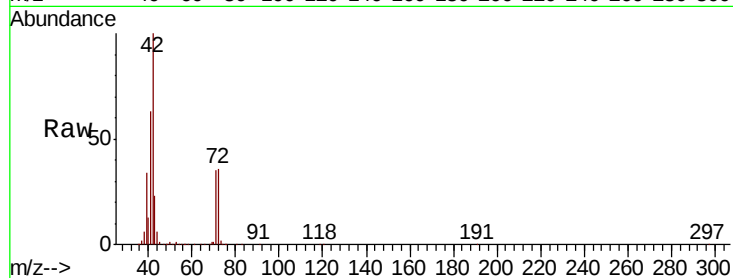
Tgt Ion: 42 Resp: 751533

Ion Ratio Lower Upper

42 100

72 37.0 30.2 45.4

71 36.2 29.4 44.2



#42

Bromodichloromethane

Concen: 9.285 ppbv

RT: 7.83 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

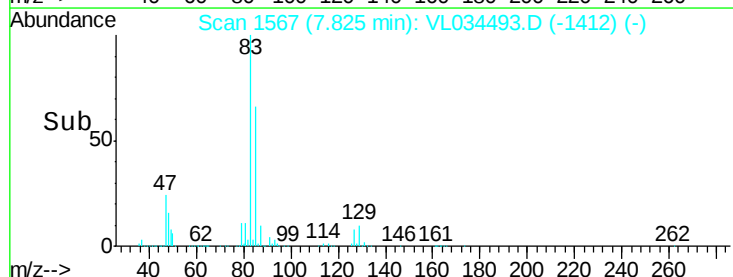
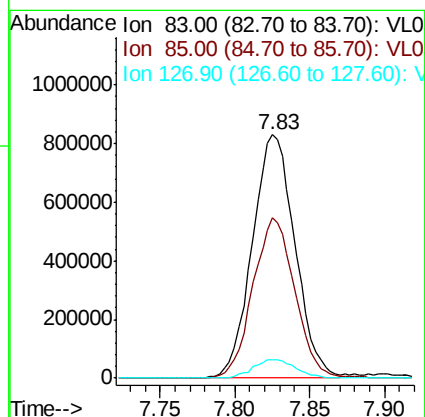
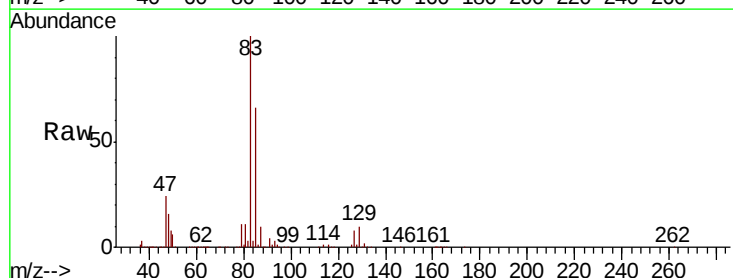
Tgt Ion: 83 Resp: 1644122

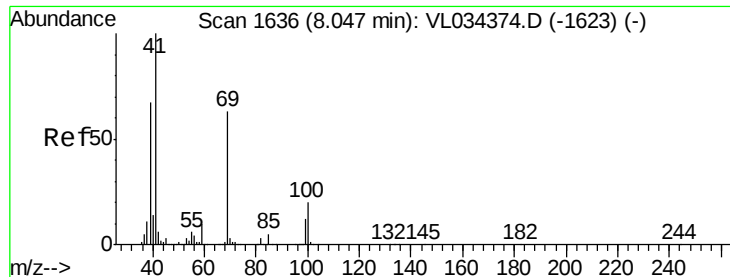
Ion Ratio Lower Upper

83 100

85 65.7 52.3 78.5

127 7.8 6.1 9.1

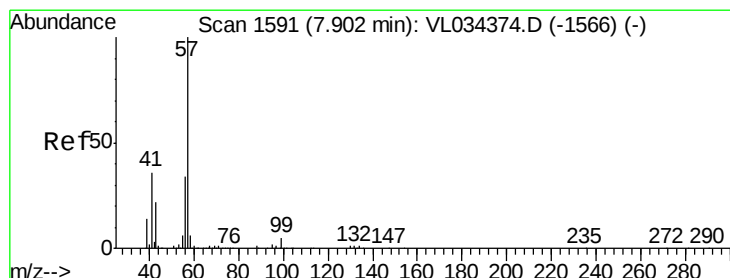
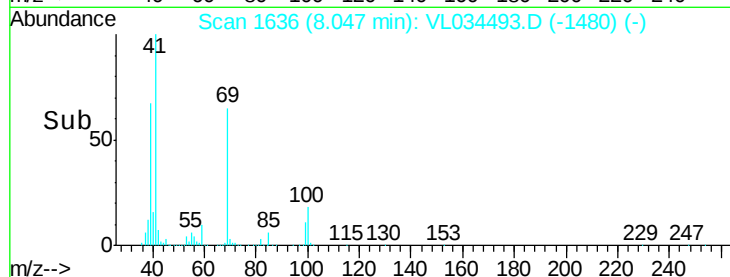
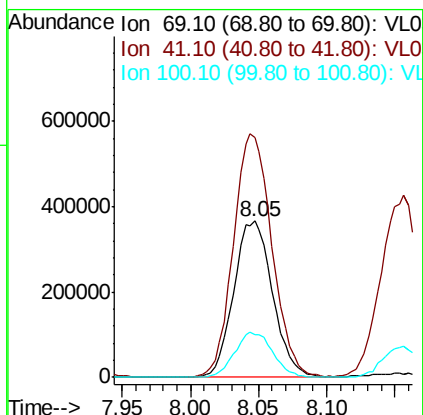
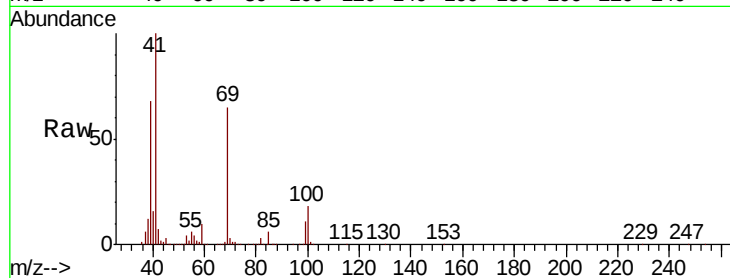




#43
Methyl Methacrylate
Concen: 9.154 ppbv
RT: 8.05 min Scan# 1636
Delta R.T. 0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

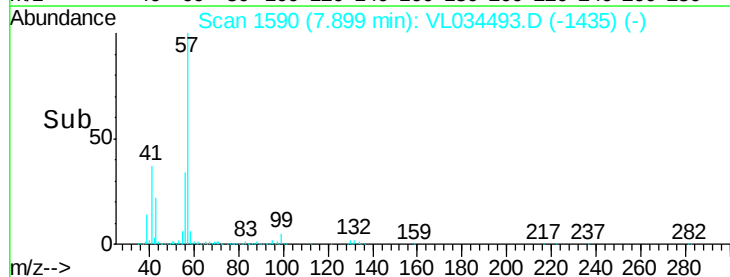
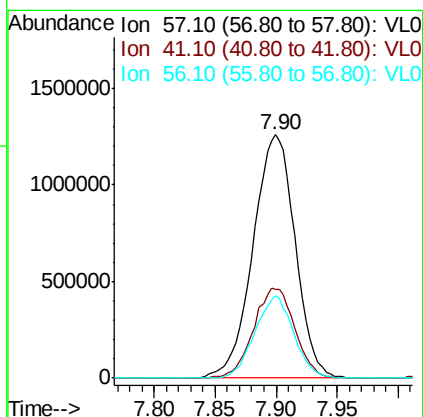
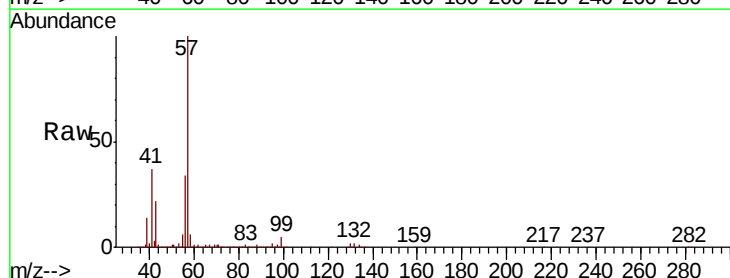
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

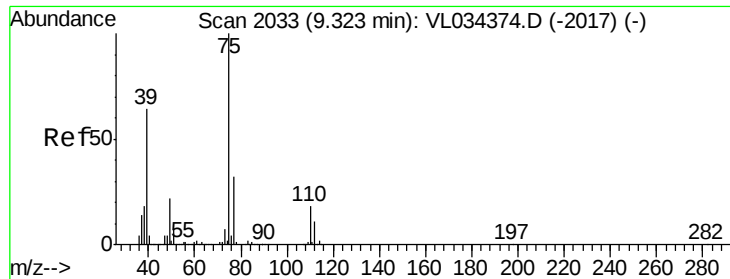
Tgt Ion: 69 Resp: 723574
Ion Ratio Lower Upper
69 100
41 153.7 127.4 191.2
100 28.3 24.2 36.4



#44
2,2,4-Trimethylpentane
Concen: 8.653 ppbv
RT: 7.90 min Scan# 1590
Delta R.T. -0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Tgt Ion: 57 Resp: 3013861
Ion Ratio Lower Upper
57 100
41 36.2 28.6 42.8
56 31.3 25.3 37.9





#45

t-1,3-Dichloropropene

Concen: 9.322 ppbv

RT: 9.32 min Scan# 2032

Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

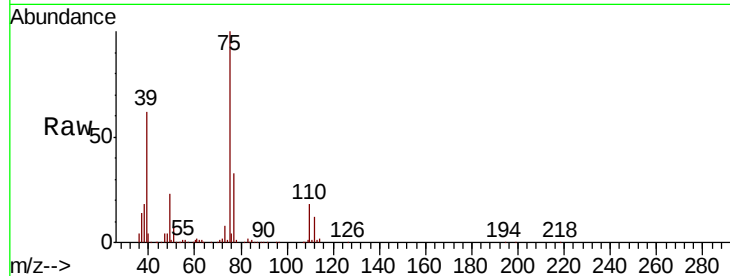
VSTDCCC010

Tgt Ion: 75 Resp: 945006

Ion Ratio Lower Upper

75 100

77 32.6 25.4 38.2



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.32

500000

400000

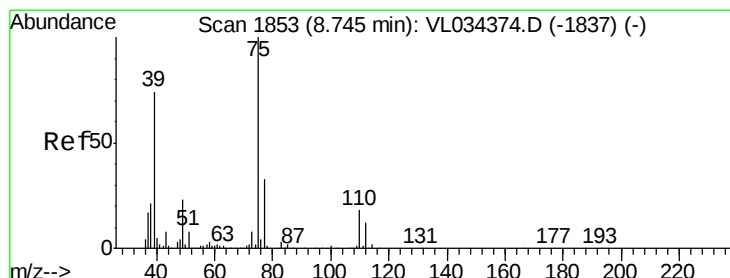
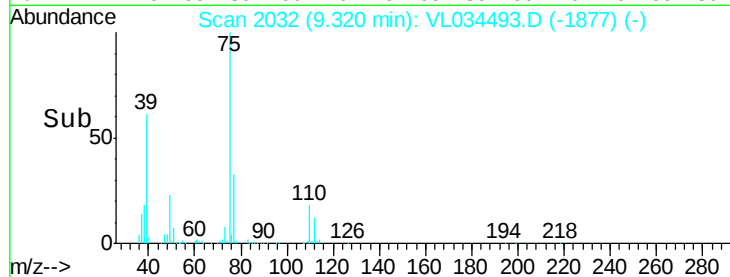
300000

200000

100000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 9.259 ppbv

RT: 8.74 min Scan# 1852

Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

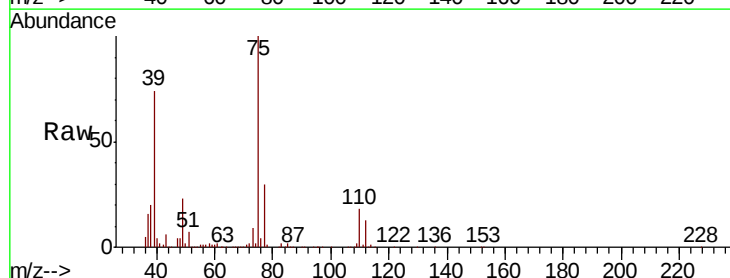
Tgt Ion: 75 Resp: 1054326

Ion Ratio Lower Upper

75 100

39 73.9 59.0 88.6

77 29.8 26.4 39.6



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

8.74

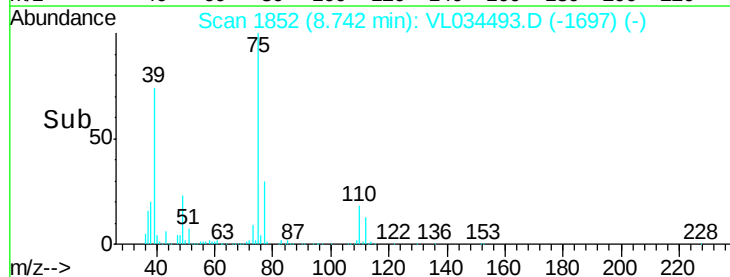
600000

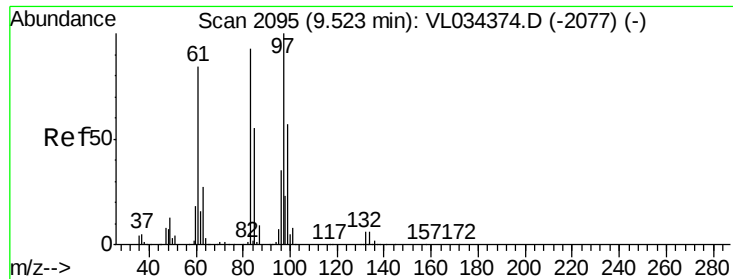
400000

200000

0

Time-->





#47

1,1,2-Trichloroethane

Concen: 8.823 ppbv

RT: 9.52 min Scan# 2094

Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 97 Resp: 720656

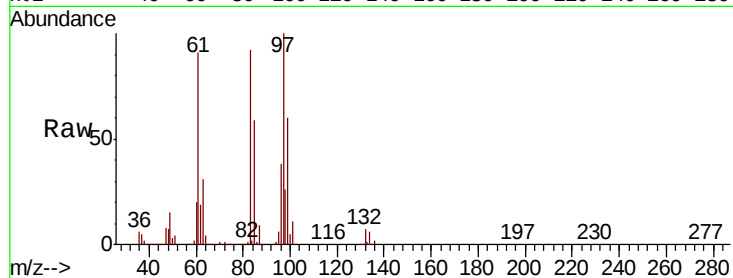
Ion Ratio Lower Upper

97 100

83 92.2 74.6 112.0

85 58.6 43.8 65.8

99 60.3 45.6 68.4

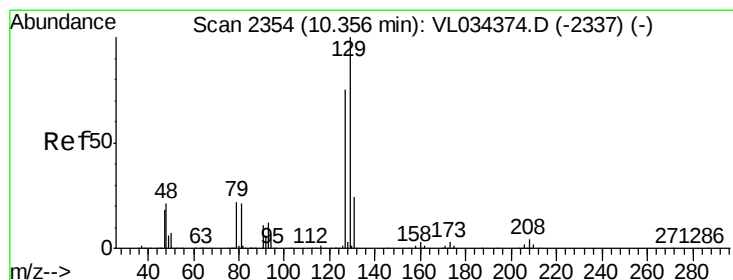
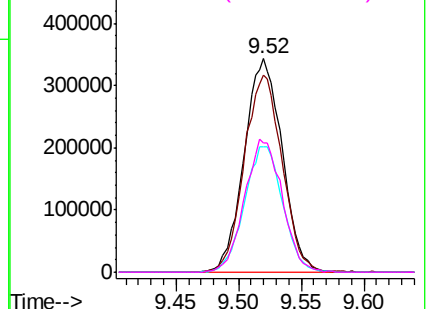
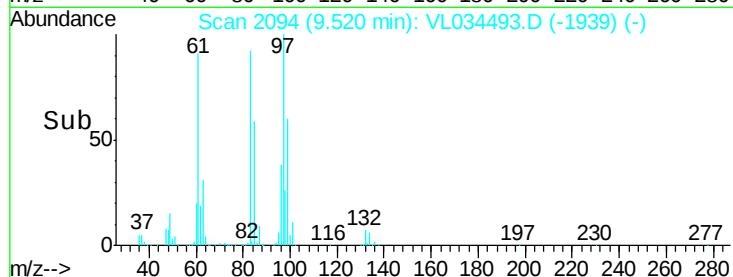


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 9.788 ppbv

RT: 10.35 min Scan# 2353

Delta R.T. -0.00 min

Lab File: VL034493.D

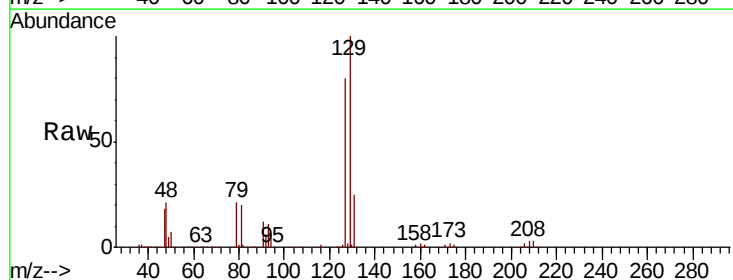
Acq: 17 Dec 2019 13:16

Tgt Ion: 129 Resp: 1372576

Ion Ratio Lower Upper

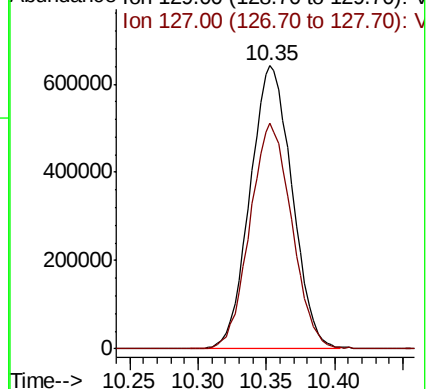
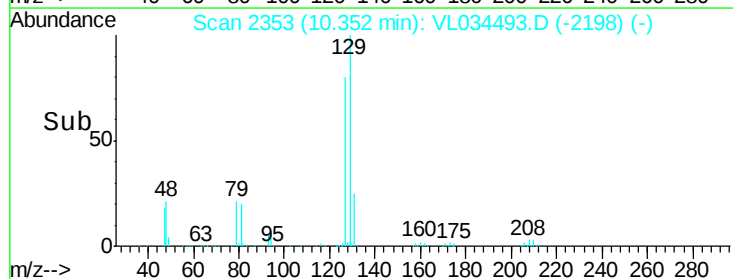
129 100

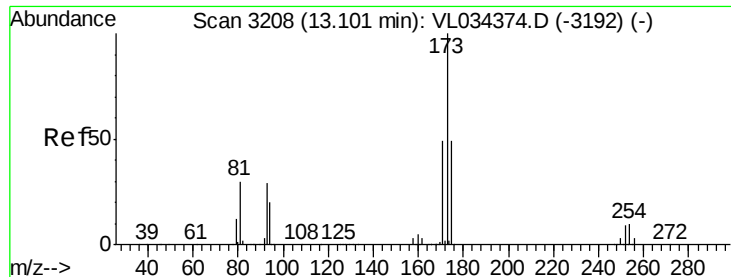
127 79.2 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.022 ppbv

RT: 13.10 min Scan# 3208

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

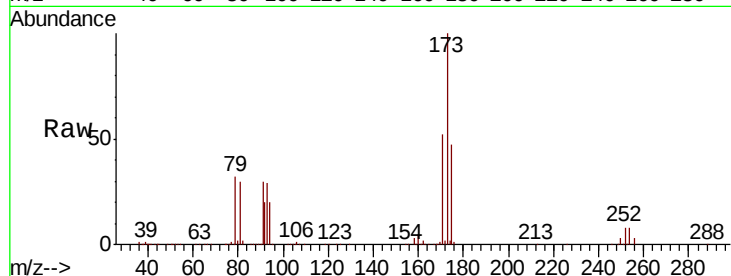
Tgt Ion:173 Resp: 1254548

Ion Ratio Lower Upper

173 100

175 48.9 39.3 58.9

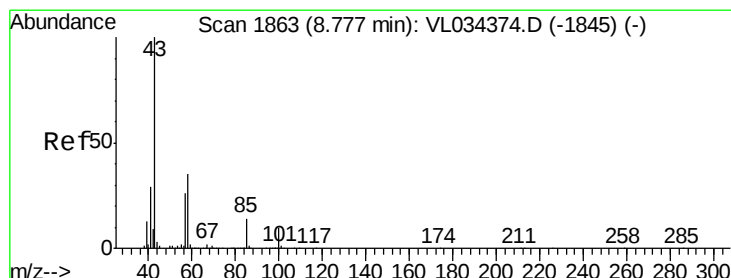
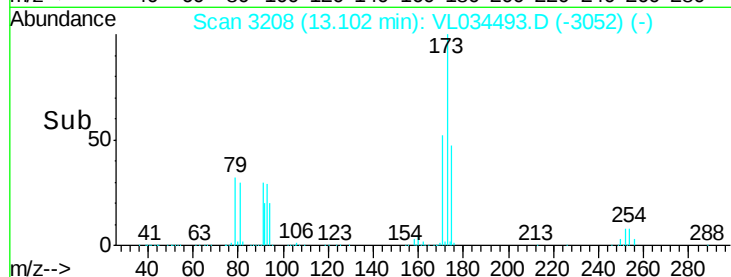
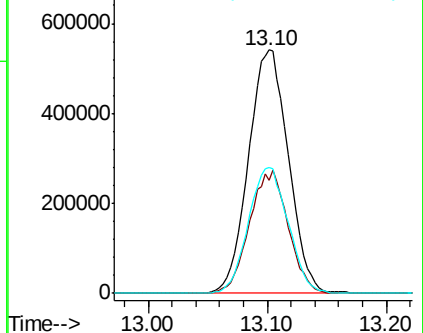
171 51.7 42.4 63.6



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: 8.778 ppbv

RT: 8.77 min Scan# 1862

Delta R.T. -0.00 min

Lab File: VL034493.D

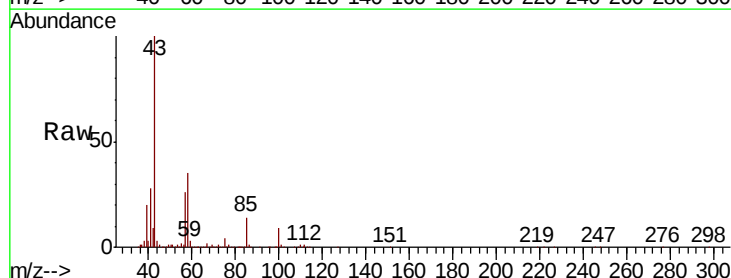
Acq: 17 Dec 2019 13:16

Tgt Ion: 43 Resp: 1993167

Ion Ratio Lower Upper

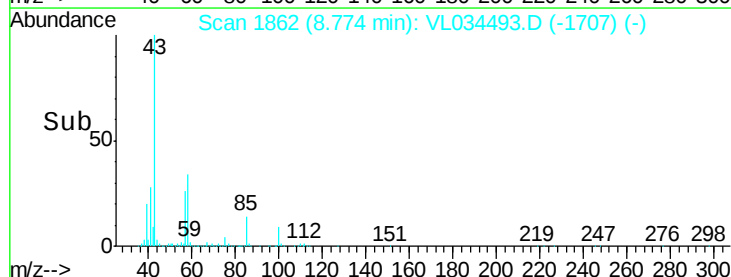
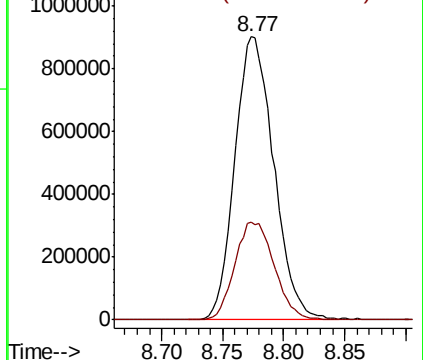
43 100

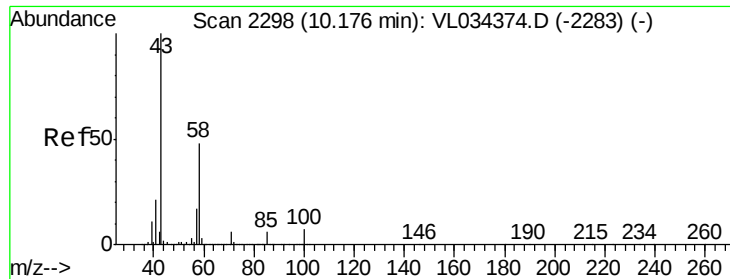
58 35.2 27.9 41.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

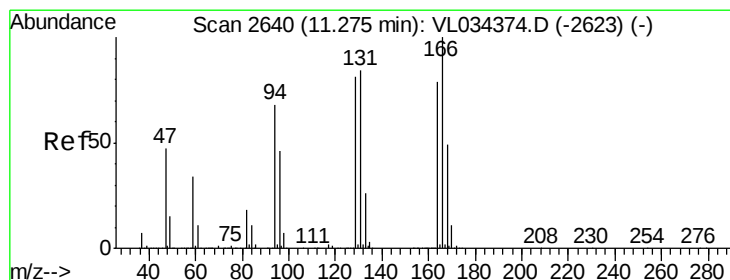
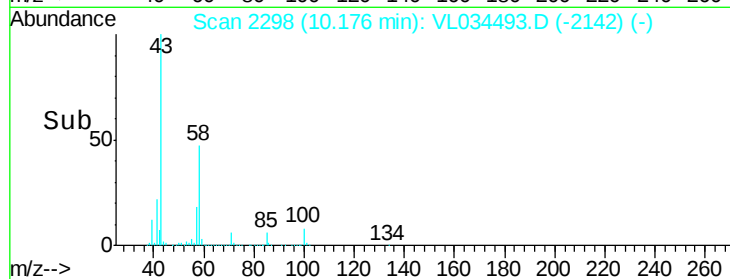
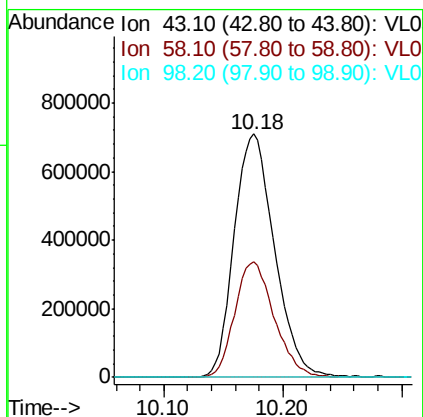
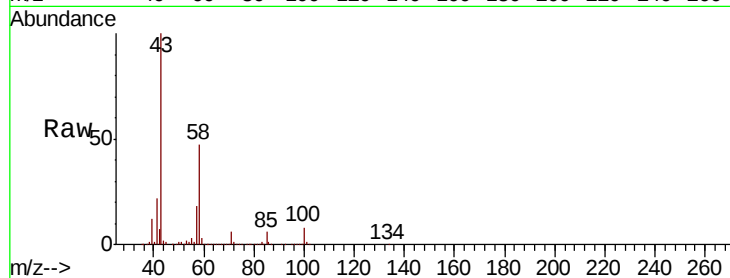




#51
2-Hexanone
Concen: 8.755 ppbv
RT: 10.18 min Scan# 2298
Delta R.T. 0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

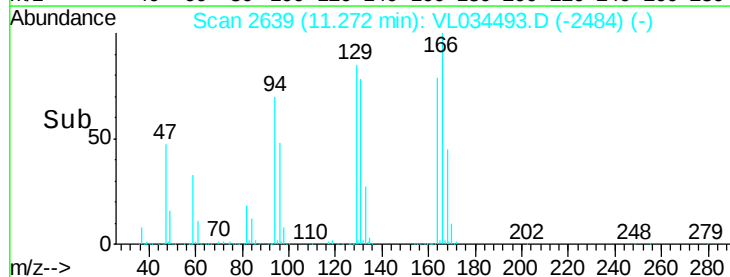
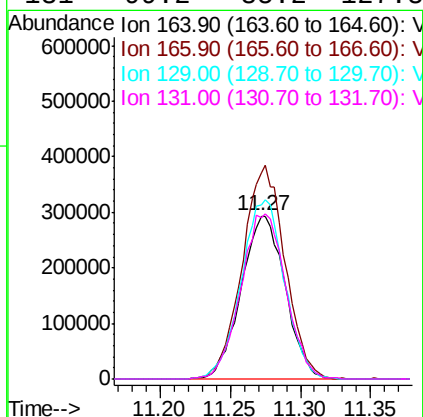
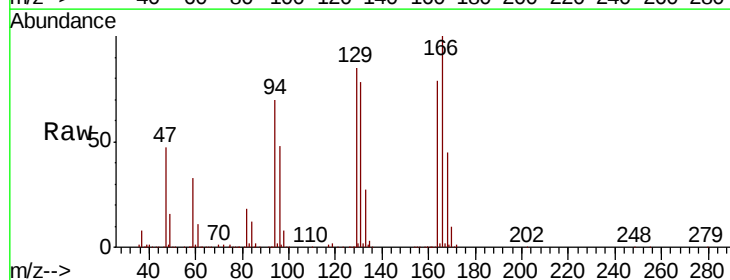
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

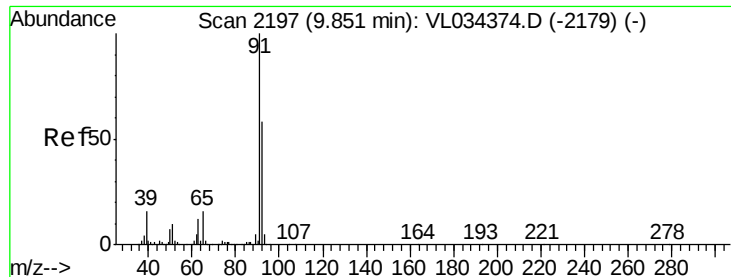
Tgt Ion: 43 Resp: 1665066
Ion Ratio Lower Upper
43 100
58 46.6 38.2 57.4
98 0.2 0.2 0.2



#52
Tetrachloroethene
Concen: 7.750 ppbv
RT: 11.27 min Scan# 2639
Delta R.T. -0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Tgt Ion: 164 Resp: 639063
Ion Ratio Lower Upper
164 100
166 126.5 101.7 152.5
129 107.1 82.6 123.8
131 99.2 85.2 127.8





#53

Toluene

Concen: 8.916 ppbv

RT: 9.85 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

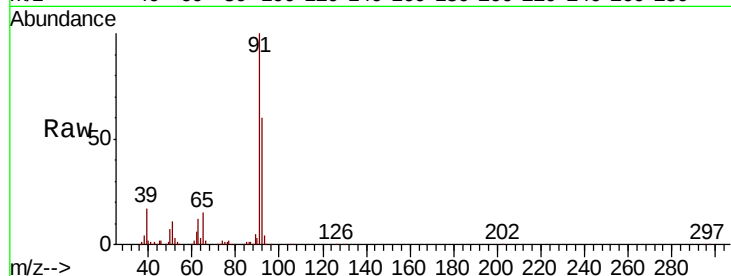
VSTDCCC010

Tgt Ion: 91 Resp: 1930091

Ion Ratio Lower Upper

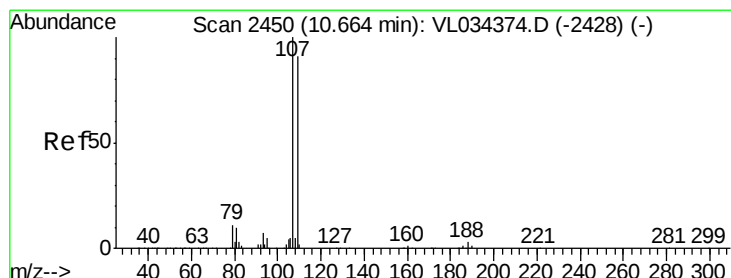
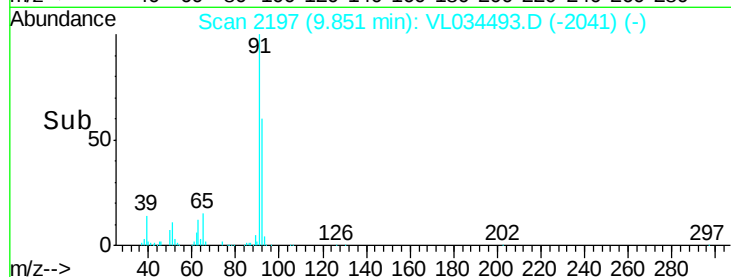
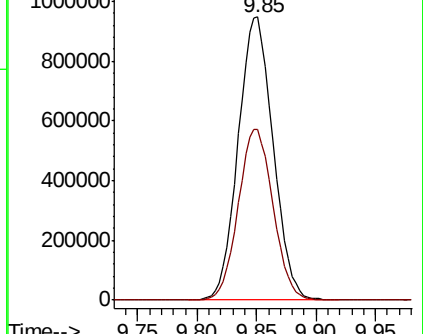
91 100

92 60.3 47.9 71.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 9.145 ppbv

RT: 10.66 min Scan# 2450

Delta R.T. 0.00 min

Lab File: VL034493.D

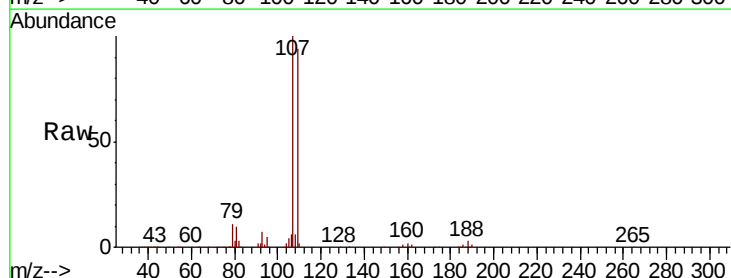
Acq: 17 Dec 2019 13:16

Tgt Ion: 107 Resp: 1145152

Ion Ratio Lower Upper

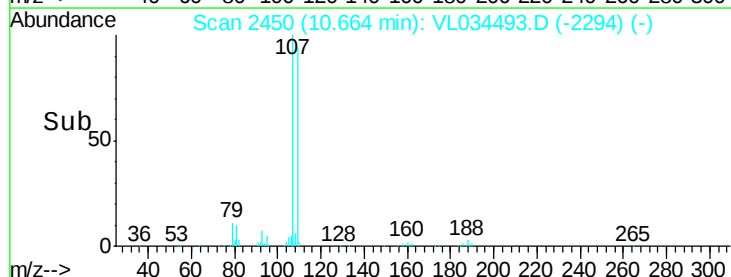
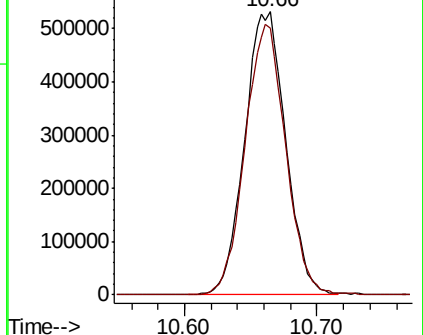
107 100

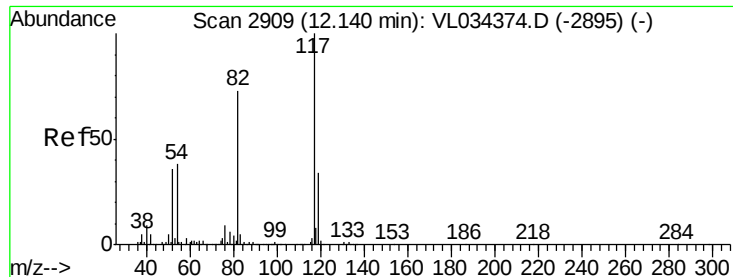
109 94.1 73.0 109.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

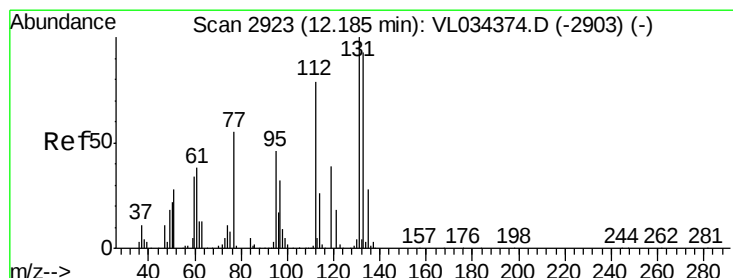
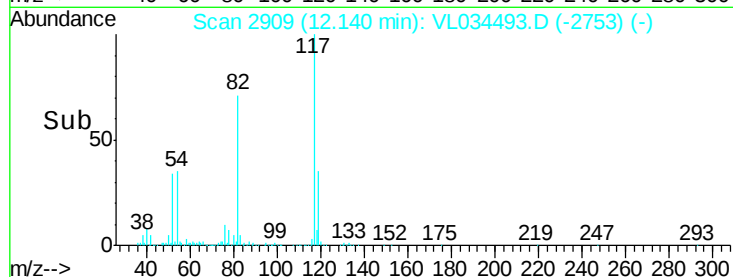
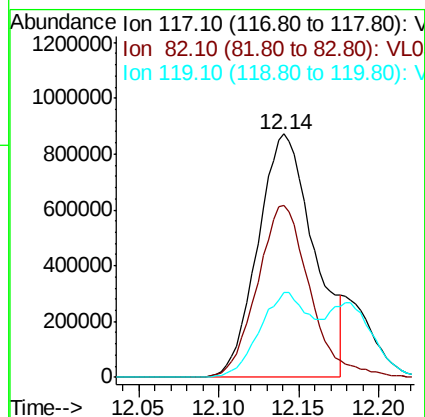
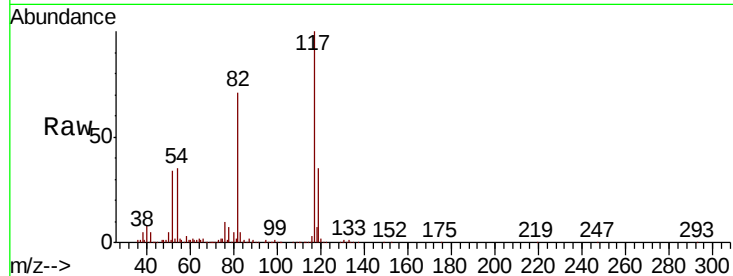




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2909
Delta R.T. 0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

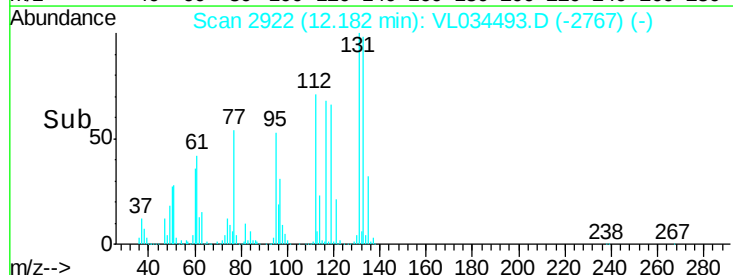
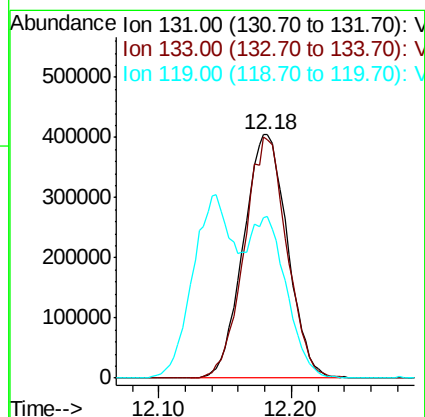
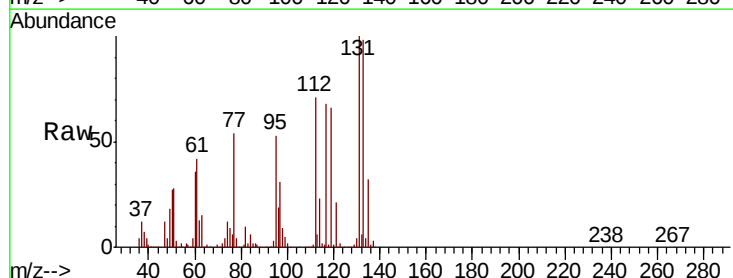
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

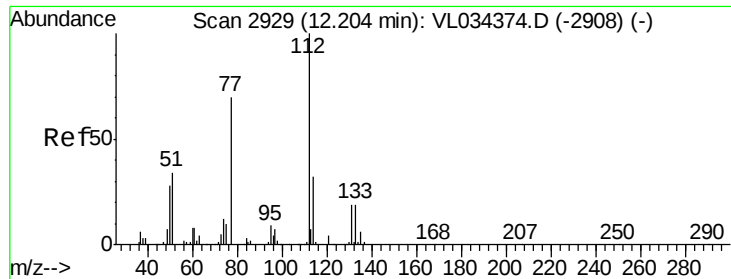
Tgt Ion:117 Resp: 2116204
Ion Ratio Lower Upper
117 100
82 66.4 57.5 86.3
119 31.8 25.4 38.2



#56
1,1,1,2-Tetrachloroethane
Concen: 9.009 ppbv
RT: 12.18 min Scan# 2922
Delta R.T. -0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Tgt Ion:131 Resp: 932580
Ion Ratio Lower Upper
131 100
133 96.2 76.2 114.2
119 61.6 44.6 67.0

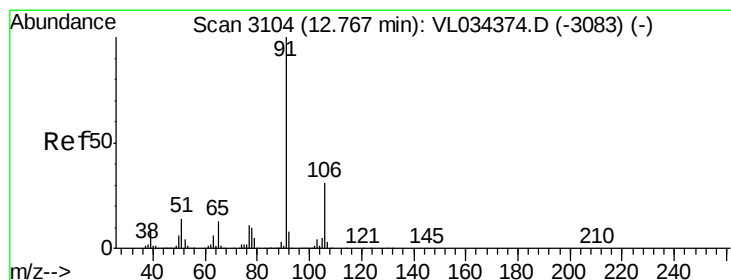
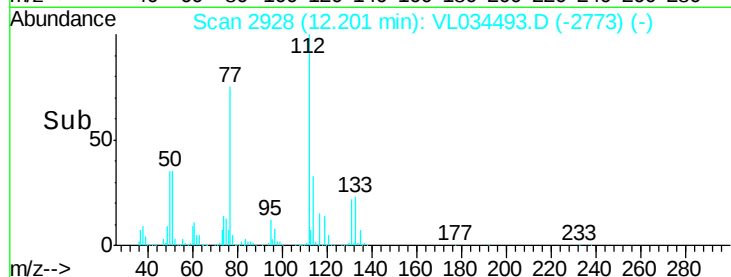
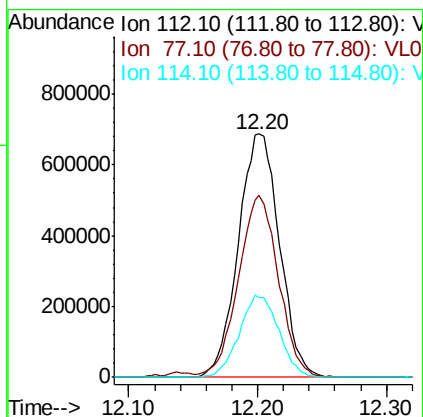
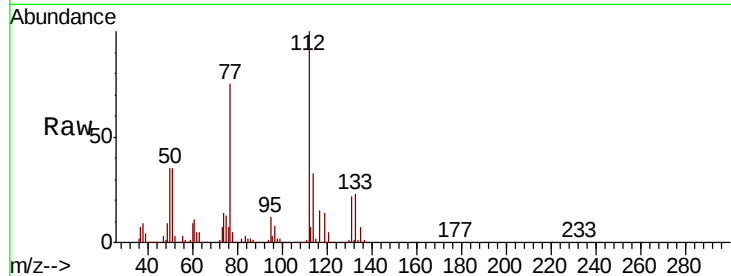




#57
Chlorobenzene
Concen: 7.974 ppbv
RT: 12.20 min Scan# 2928
Delta R.T. -0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

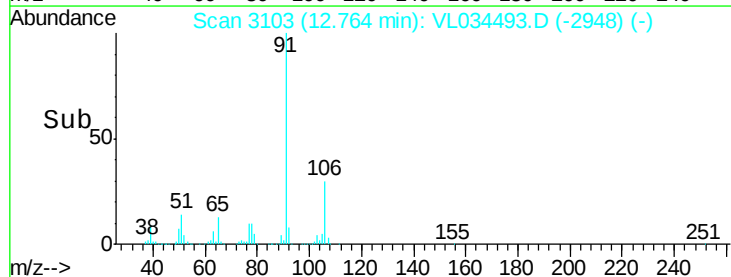
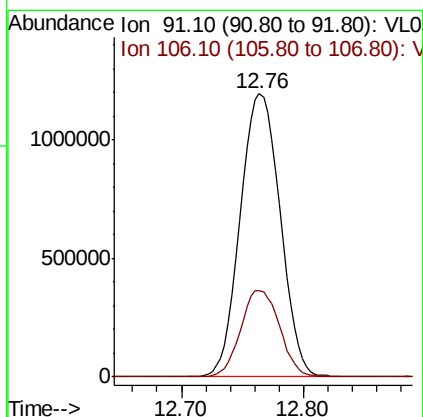
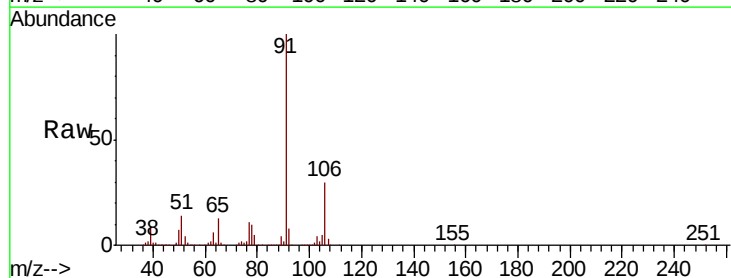
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

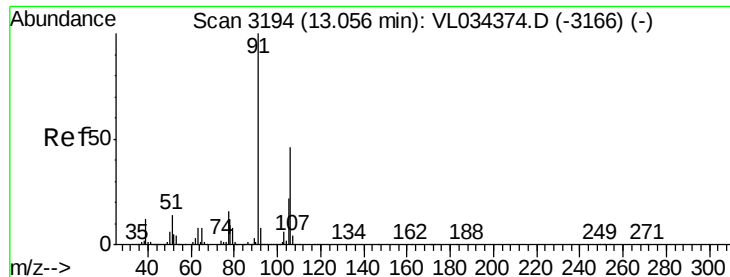
Tgt Ion: 112 Resp: 1525486
Ion Ratio Lower Upper
112 100
77 74.6 57.1 85.7
114 32.4 28.5 34.9



#58
Ethyl Benzene
Concen: 8.249 ppbv
RT: 12.76 min Scan# 3103
Delta R.T. -0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Tgt Ion: 91 Resp: 2709056
Ion Ratio Lower Upper
91 100
106 30.3 24.8 37.2

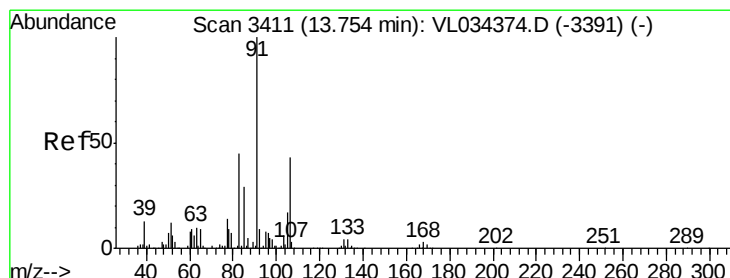
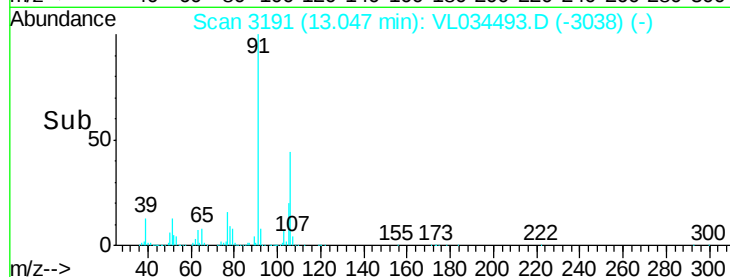
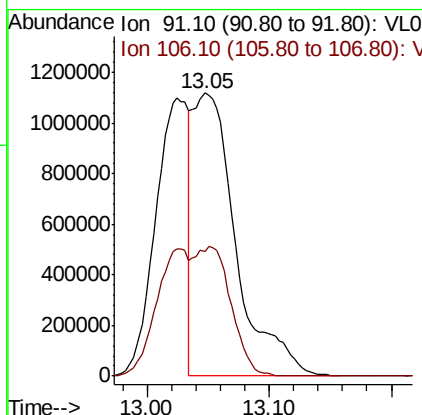
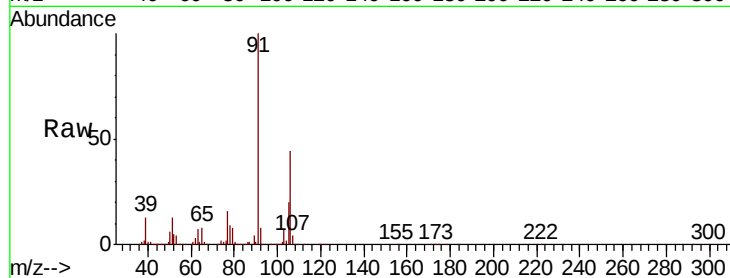




#59
m/p-Xylene
Concen: 9.603 ppbv
RT: 13.05 min Scan# 3191
Delta R.T. -0.01 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

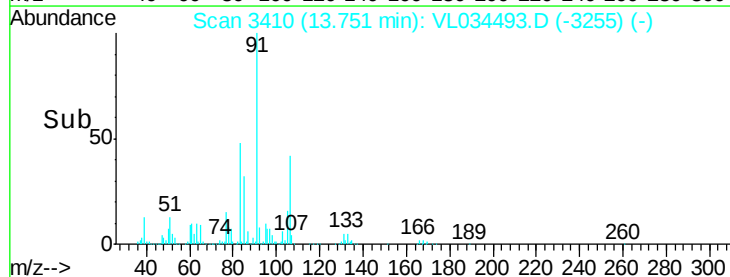
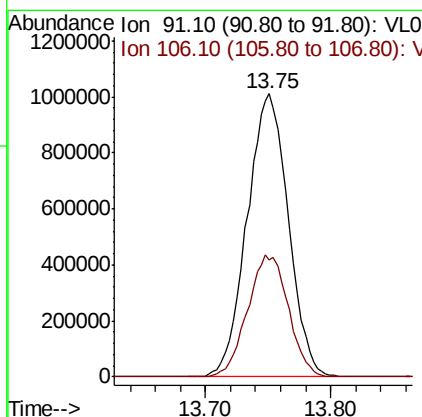
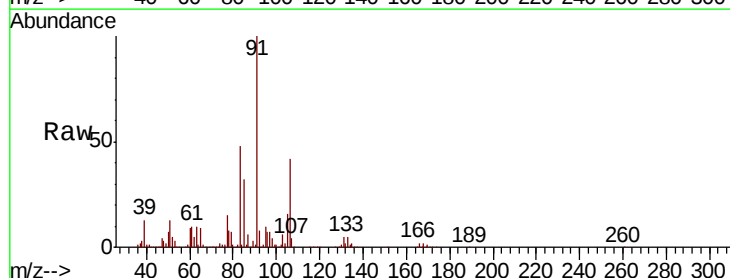
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

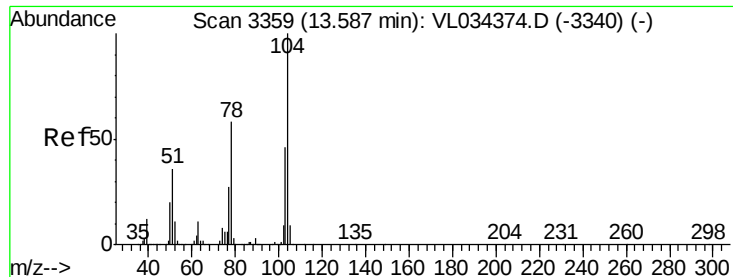
Tgt Ion: 91 Resp: 2726027
Ion Ratio Lower Upper
91 100
106 73.8 34.6 51.8#



#60
o-Xylene
Concen: 8.211 ppbv
RT: 13.75 min Scan# 3410
Delta R.T. -0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Tgt Ion: 91 Resp: 2304530
Ion Ratio Lower Upper
91 100
106 42.8 21.3 64.0





#61

Styrene

Concen: 8.057 ppbv

RT: 13.59 min Scan# 3359

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

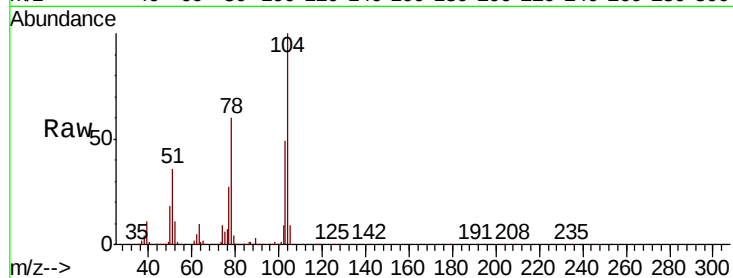
Tgt Ion:104 Resp: 1630755

Ion Ratio Lower Upper

104 100

78 60.0 47.6 71.4

103 48.3 38.6 57.8



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

1000000

800000

600000

400000

200000

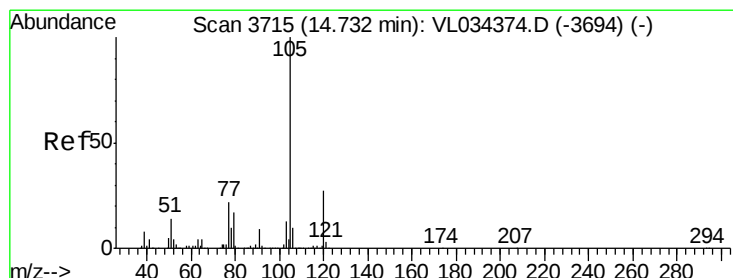
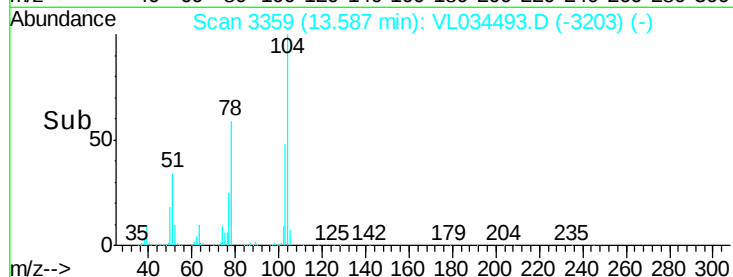
0

13.59

13.50

13.60

Time-->



#62

Isopropylbenzene

Concen: 8.246 ppbv

RT: 14.73 min Scan# 3714

Delta R.T. -0.00 min

Lab File: VL034493.D

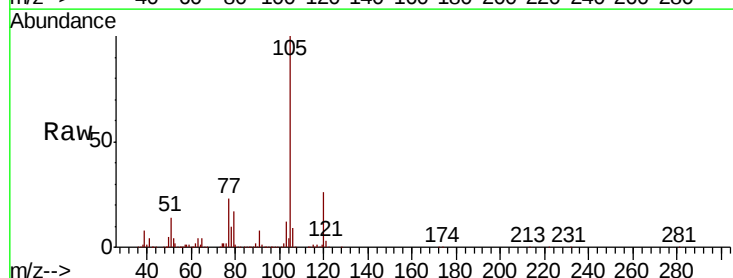
Acq: 17 Dec 2019 13:16

Tgt Ion:105 Resp: 3061011

Ion Ratio Lower Upper

105 100

120 25.7 20.2 30.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

1500000

1000000

500000

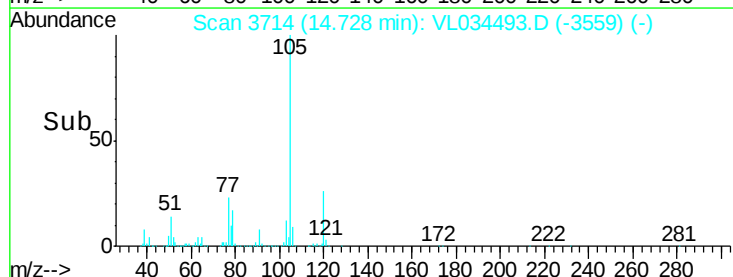
0

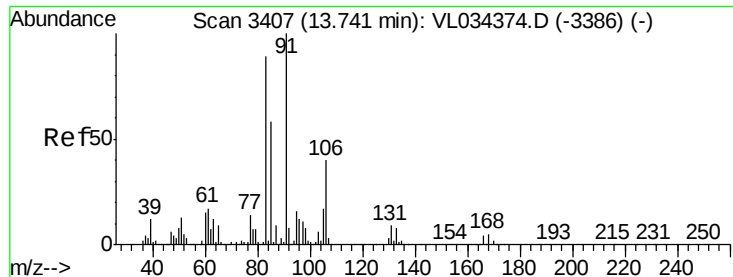
14.73

14.70

14.80

Time-->

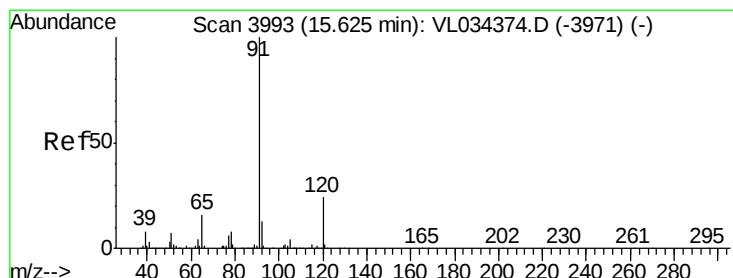
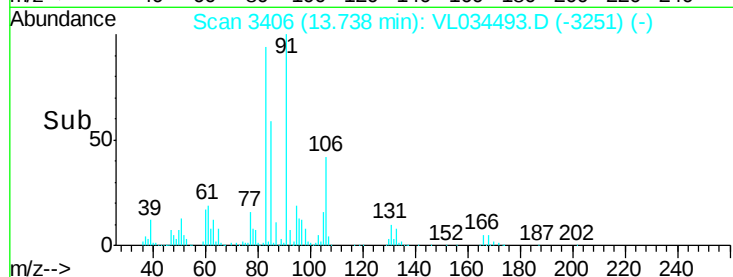
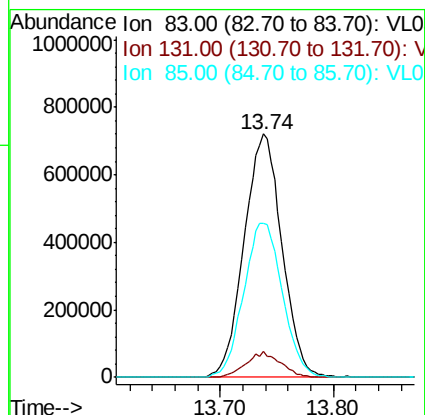
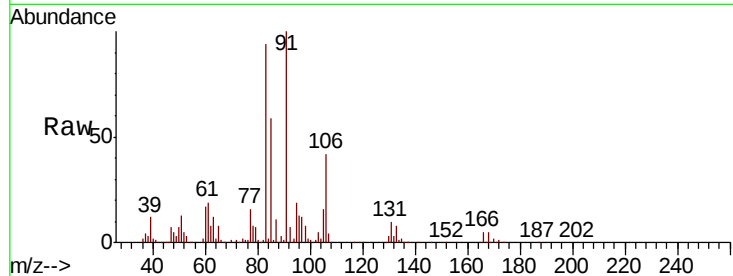




#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.938 ppbv
 RT: 13.74 min Scan# 3406
 Delta R.T. -0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

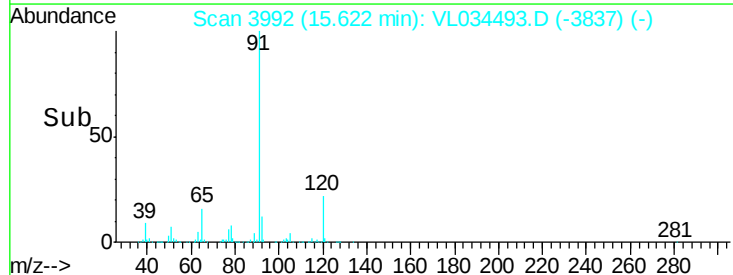
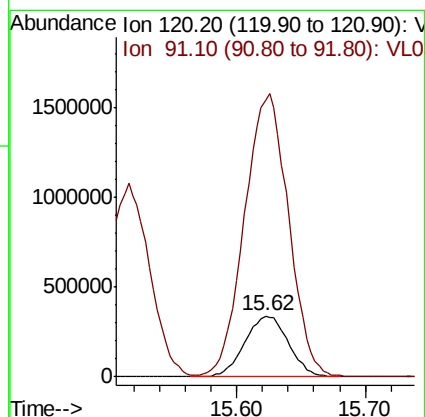
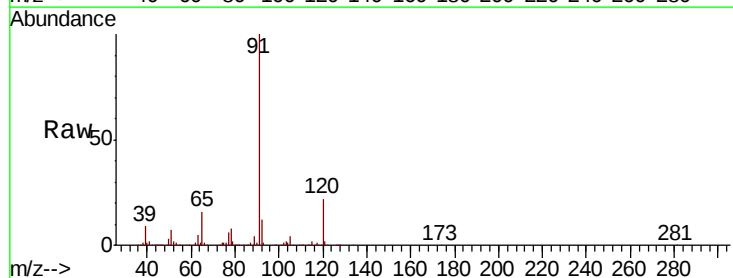
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

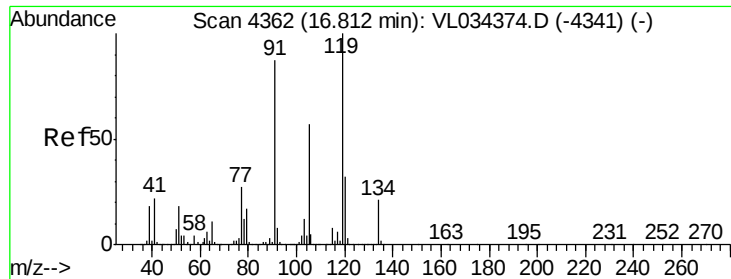
Tgt Ion: 83 Resp: 1674773
 Ion Ratio Lower Upper
 83 100
 131 9.7 4.9 14.7
 85 65.1 32.6 97.8



#64
 n-propylbenzene
 Concen: 8.272 ppbv
 RT: 15.62 min Scan# 3992
 Delta R.T. -0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Tgt Ion: 120 Resp: 797420
 Ion Ratio Lower Upper
 120 100
 91 471.0 370.9 556.3

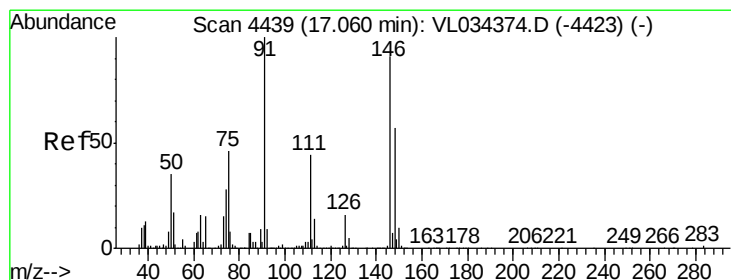
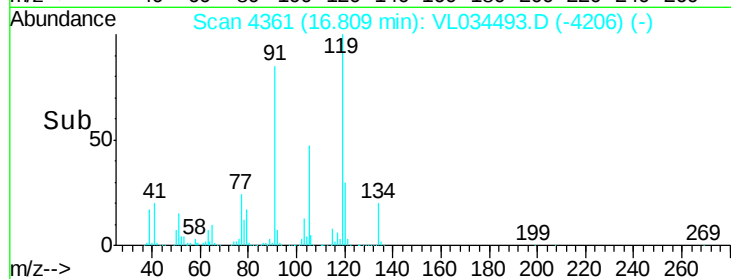
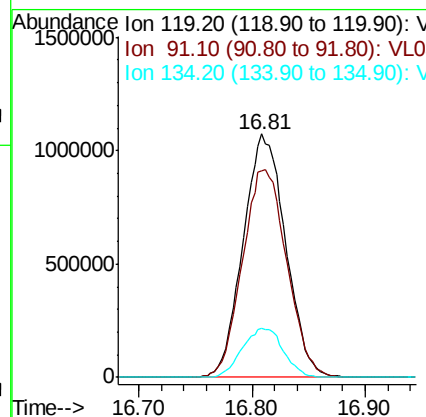
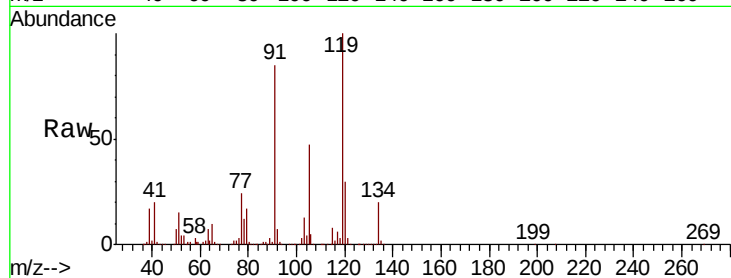




#65
 tert-Butylbenzene
 Concen: 8.373 ppbv
 RT: 16.81 min Scan# 4361
 Delta R.T. -0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

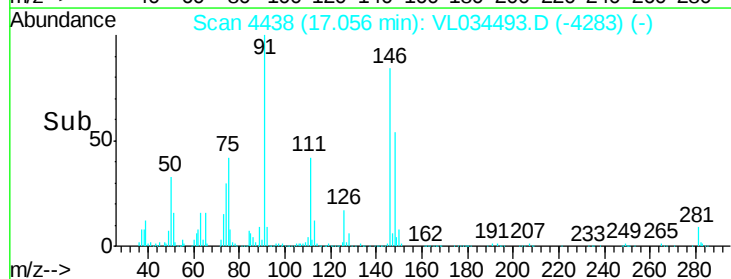
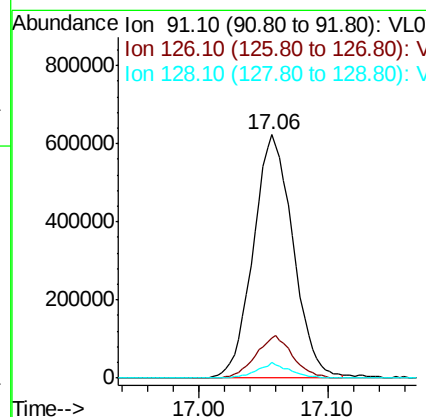
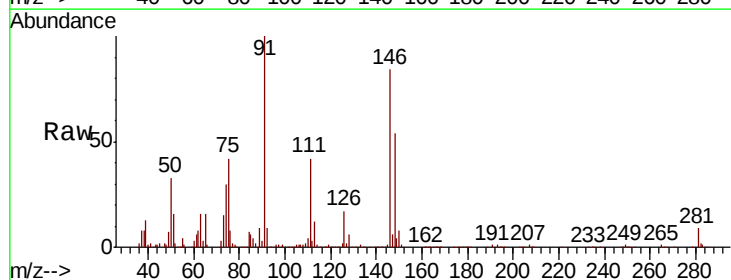
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

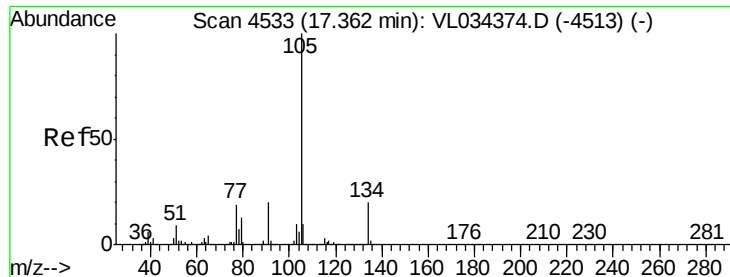
Tgt Ion: 119 Resp: 2791985
 Ion Ratio Lower Upper
 119 100
 91 89.6 71.6 107.4
 134 19.7 15.9 23.9



#66
 Benzyl Chloride
 Concen: 10.420 ppbv
 RT: 17.06 min Scan# 4438
 Delta R.T. -0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Tgt Ion: 91 Resp: 1336631
 Ion Ratio Lower Upper
 91 100
 126 16.4 12.9 19.3
 128 5.4 4.3 6.5

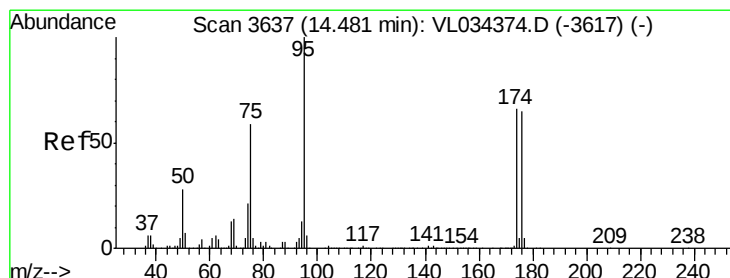
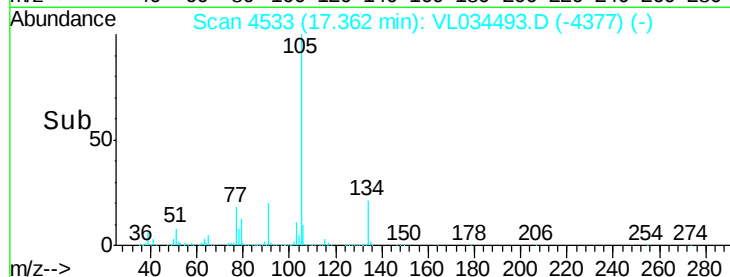
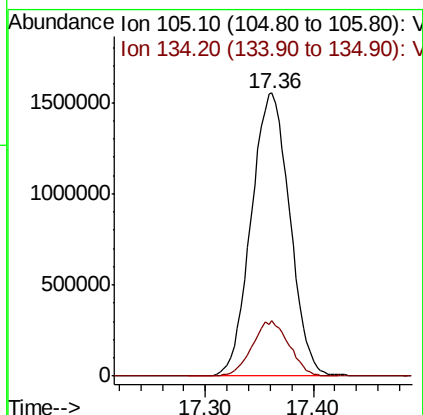
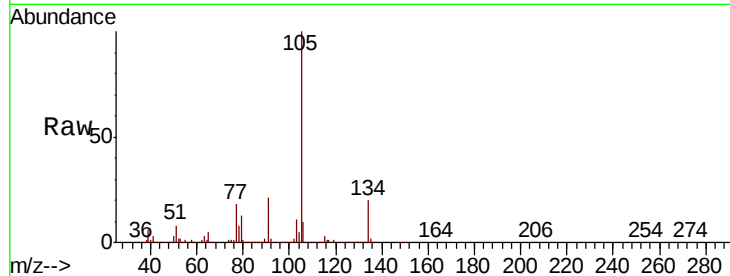




#67
 sec-Butylbenzene
 Concen: 8.240 ppbv
 RT: 17.36 min Scan# 4533
 Delta R.T. 0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

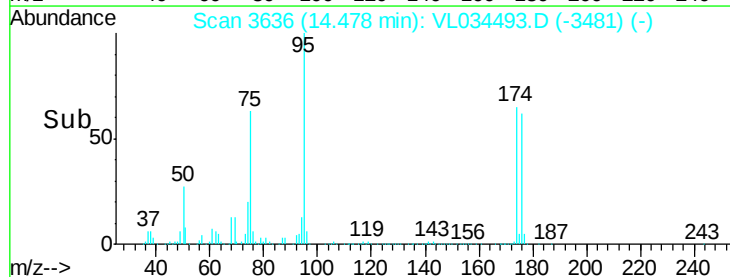
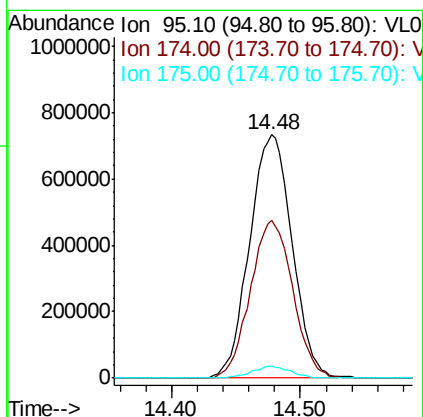
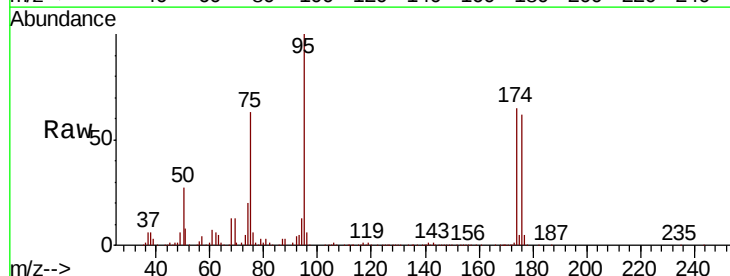
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

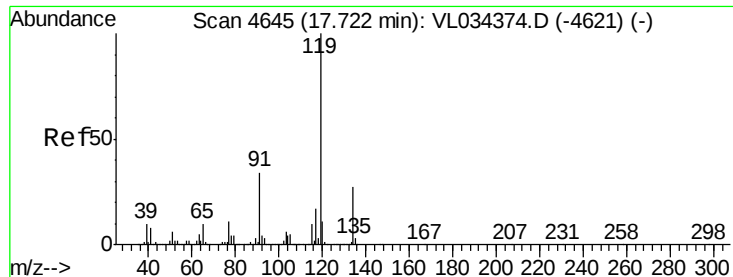
Tgt Ion: 105 Resp: 3843508
 Ion Ratio Lower Upper
 105 100
 134 18.8 15.0 22.6



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.440 ppbv
 RT: 14.48 min Scan# 3636
 Delta R.T. -0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Tgt Ion: 95 Resp: 1680623
 Ion Ratio Lower Upper
 95 100
 174 64.7 52.2 78.2
 175 4.6 3.8 5.8

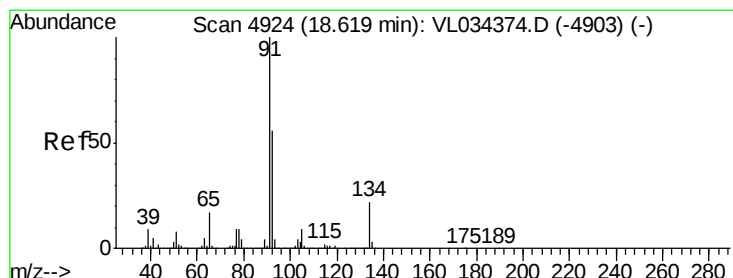
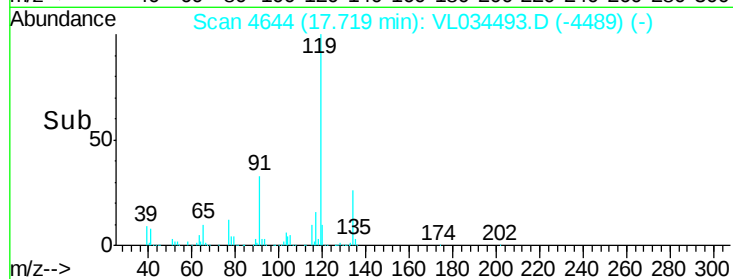
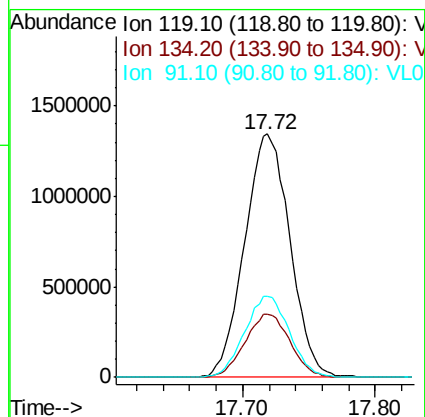
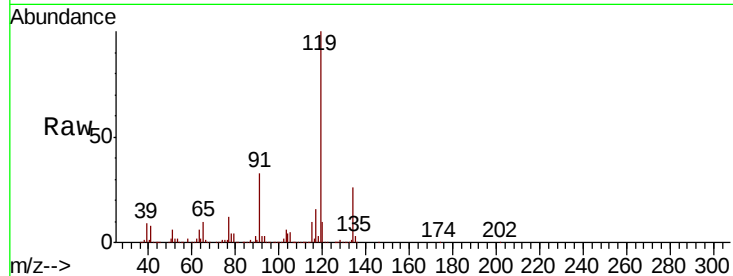




#69
p-Isopropyltoluene
Concen: 8.257 ppbv
RT: 17.72 min Scan# 4644
Delta R.T. -0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

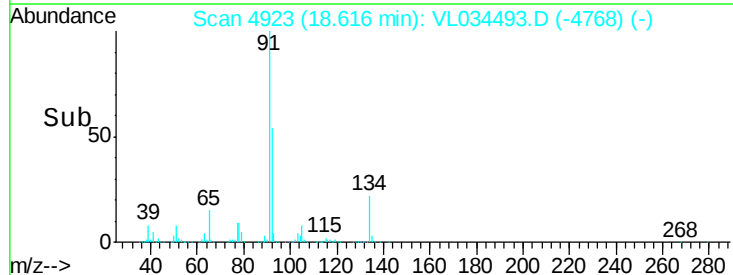
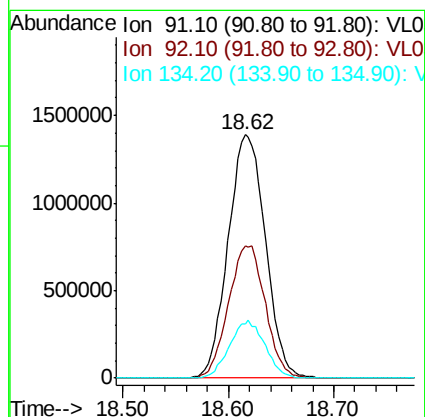
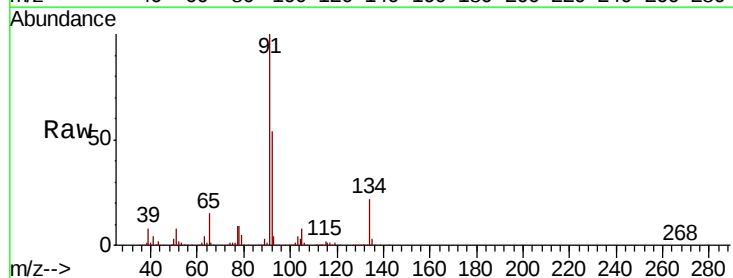
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

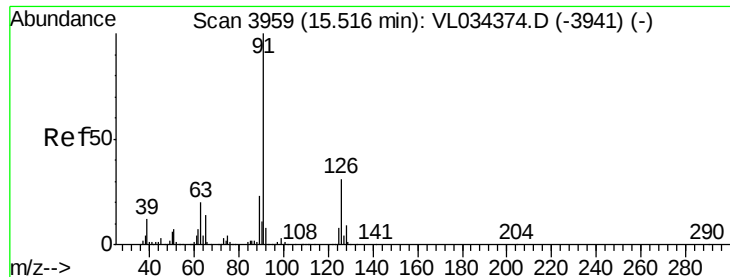
Tgt Ion: 119 Resp: 3196448
Ion Ratio Lower Upper
119 100
134 26.0 20.6 31.0
91 33.2 26.3 39.5



#70
n-Butylbenzene
Concen: 8.184 ppbv
RT: 18.62 min Scan# 4923
Delta R.T. -0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Tgt Ion: 91 Resp: 3408591
Ion Ratio Lower Upper
91 100
92 53.6 43.8 65.6
134 22.5 17.9 26.9





#71

2-Chlorotoluene

Concen: 8.153 ppbv

RT: 15.52 min Scan# 3959

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

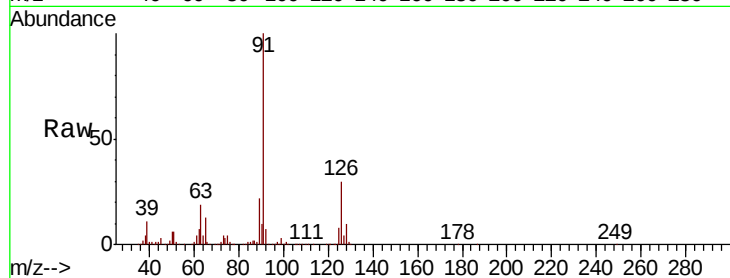
VSTDCCC010

Tgt Ion: 91 Resp: 2413186

Ion Ratio Lower Upper

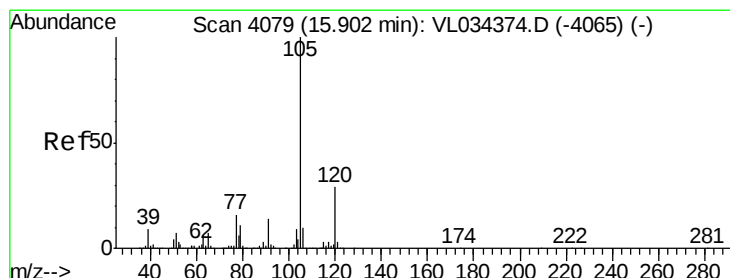
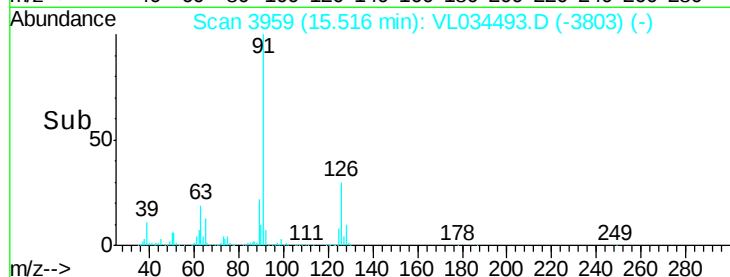
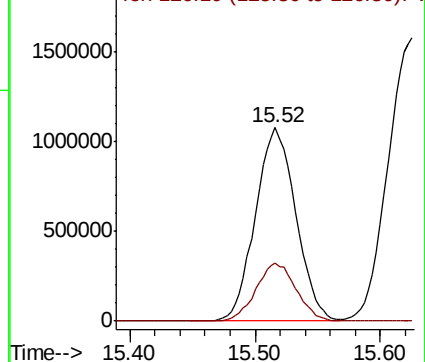
91 100

126 29.9 11.8 47.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 8.123 ppbv

RT: 15.90 min Scan# 4079

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Tgt Ion: 105 Resp: 2634435

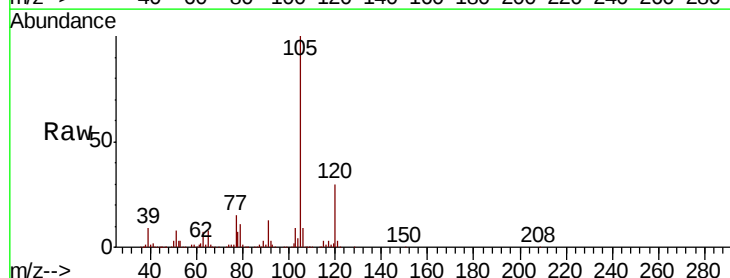
Ion Ratio Lower Upper

105 100

120 29.4 23.5 35.3

91 14.2 11.4 17.0

77 15.6 12.6 19.0

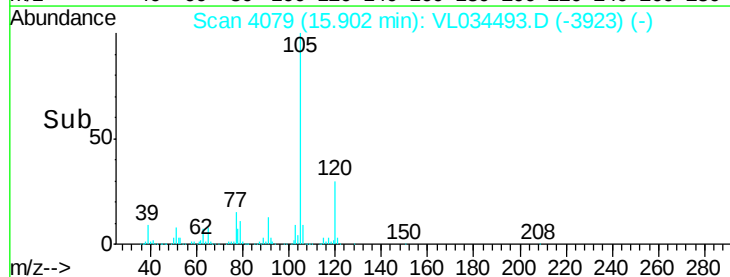
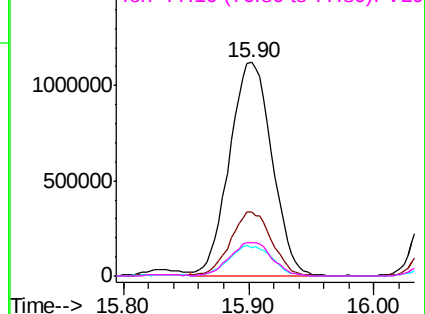


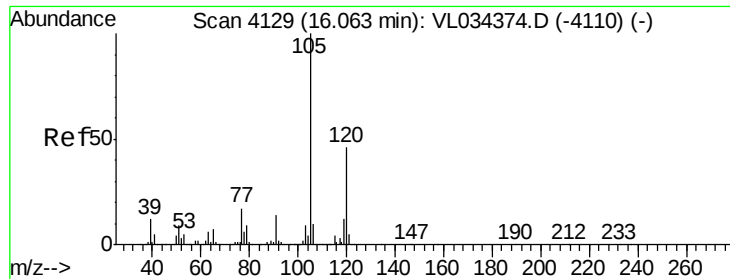
Abundance Ion 105.10 (104.80 to 105.80): V

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

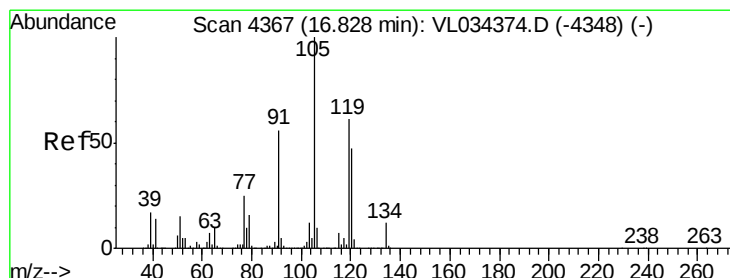
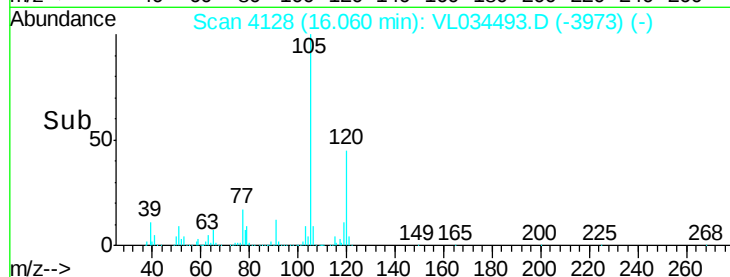
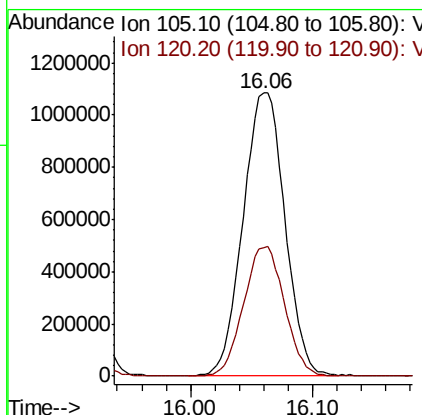
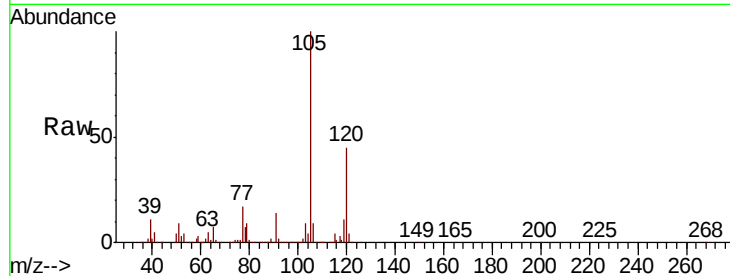




#73
 1,3,5-Trimethylbenzene
 Concen: 8.068 ppbv
 RT: 16.06 min Scan# 4128
 Delta R.T. -0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

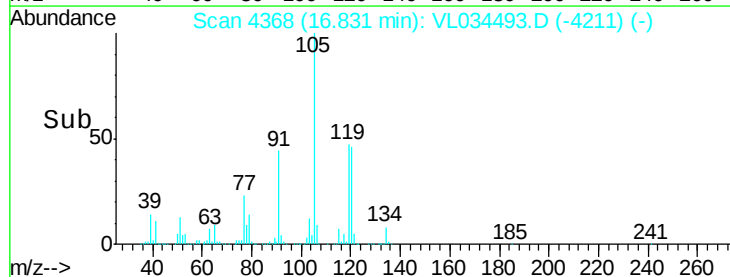
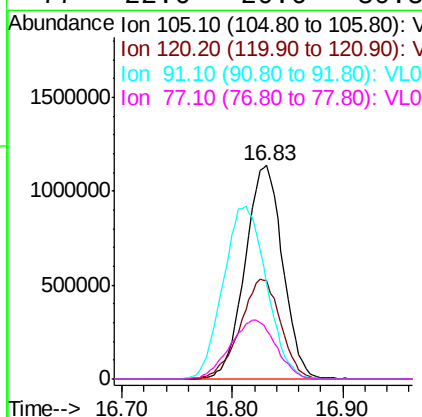
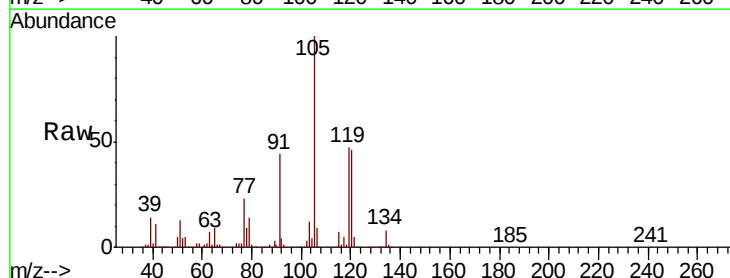
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

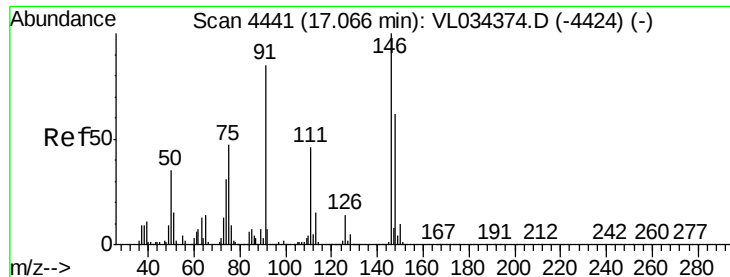
Tgt Ion:105 Resp: 2561127
 Ion Ratio Lower Upper
 105 100
 120 45.3 37.1 55.7



#74
 1,2,4-Trimethylbenzene
 Concen: 7.946 ppbv
 RT: 16.83 min Scan# 4368
 Delta R.T. 0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Tgt Ion:105 Resp: 2679638
 Ion Ratio Lower Upper
 105 100
 120 46.2 37.4 56.0
 91 44.0 46.3 69.5#
 77 22.6 20.6 30.8





#75

1,3-Dichlorobenzene

Concen: 7.658 ppbv

RT: 17.07 min Scan# 4441

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

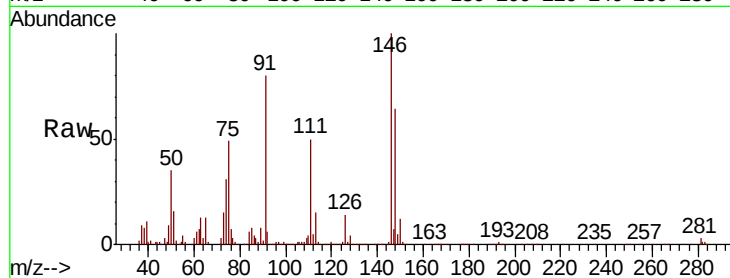
Tgt Ion:146 Resp: 1484255

Ion Ratio Lower Upper

146 100

111 49.3 24.4 73.4

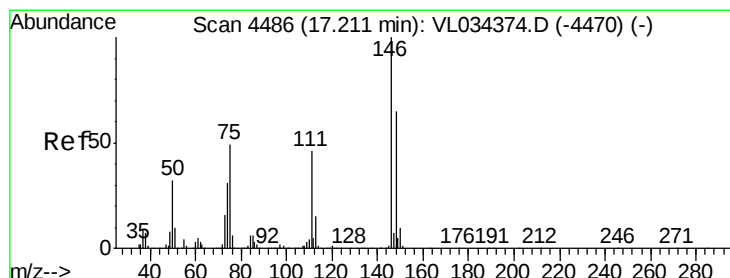
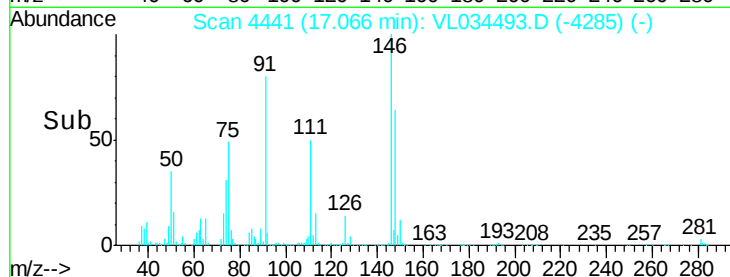
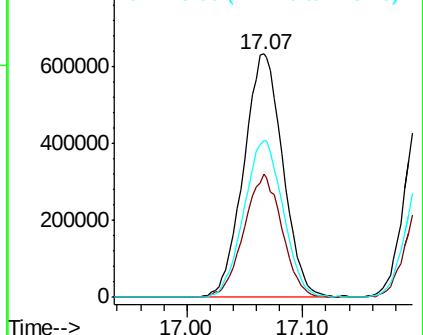
148 64.7 32.4 97.0



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: 7.917 ppbv

RT: 17.21 min Scan# 4485

Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

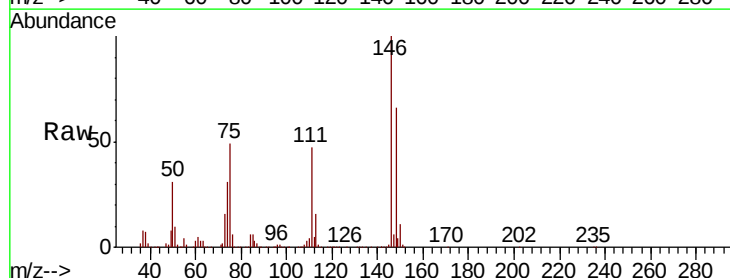
Tgt Ion:146 Resp: 1490204

Ion Ratio Lower Upper

146 100

111 47.6 24.1 72.3

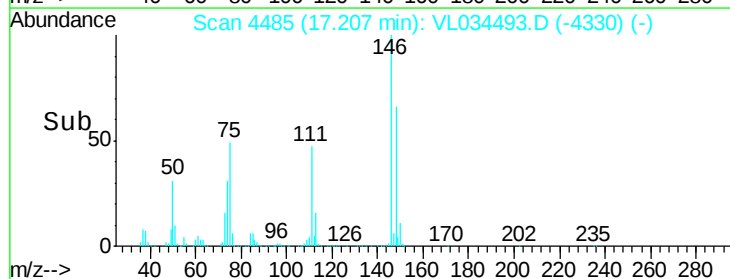
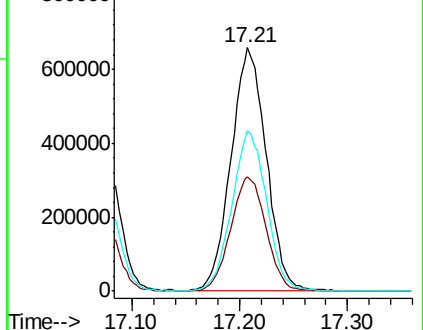
148 65.6 32.9 98.6

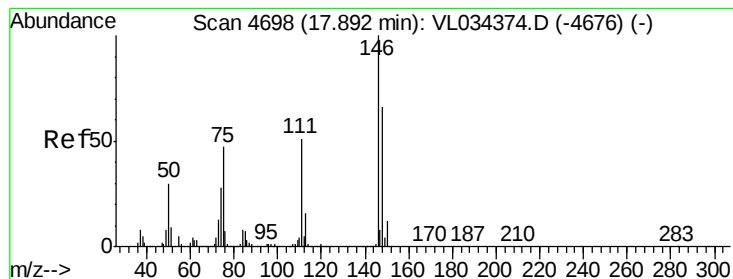


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 7.891 ppbv

RT: 17.89 min Scan# 4697

Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

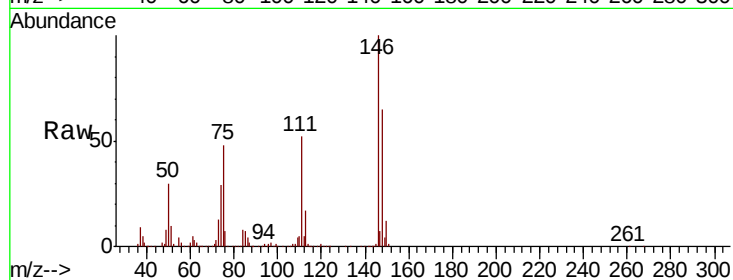
Tgt Ion:146 Resp: 1477224

Ion Ratio Lower Upper

146 100

111 50.9 25.0 75.0

148 64.6 32.7 98.1

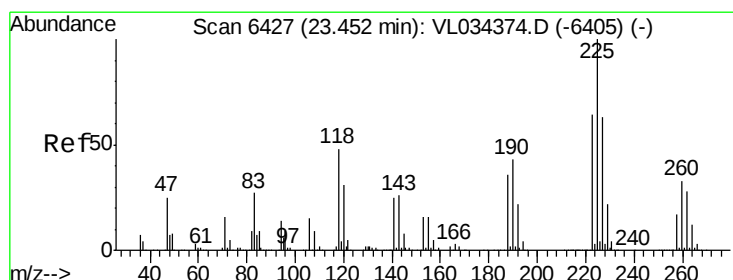
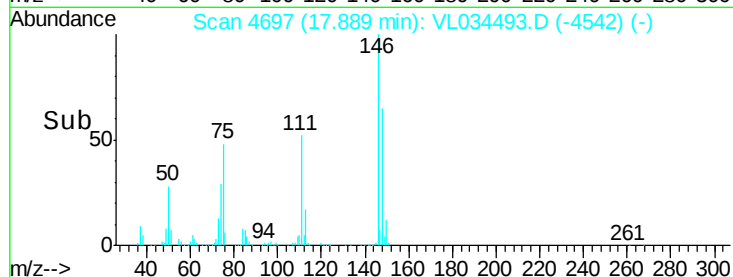
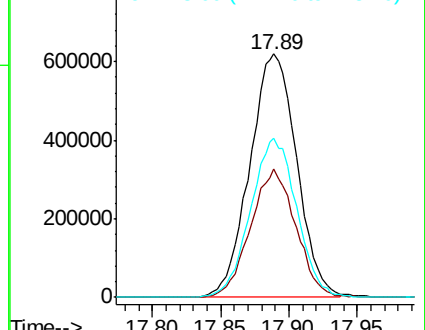


Abundance

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



#78

Hexachloro-1,3-Butadiene

Concen: 7.713 ppbv

RT: 23.45 min Scan# 6426

Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

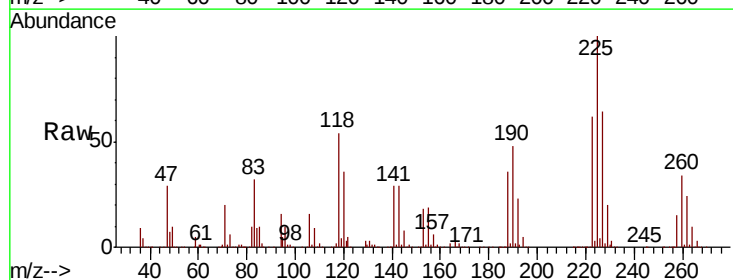
Tgt Ion:225 Resp: 1240573

Ion Ratio Lower Upper

225 100

223 63.0 50.2 75.2

227 64.9 51.5 77.3

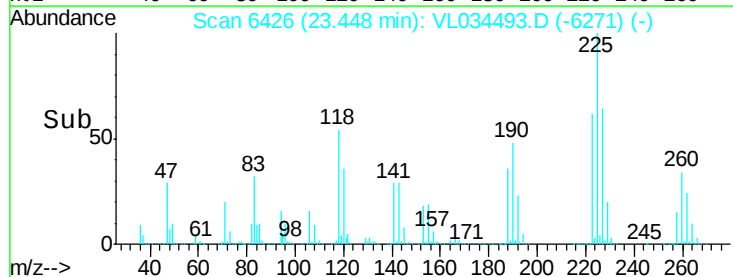
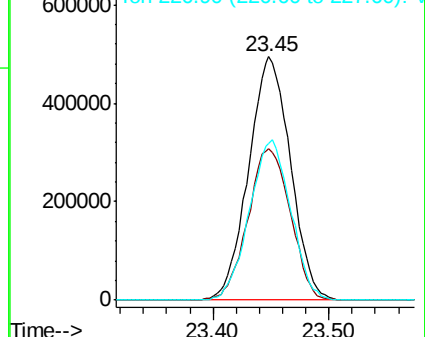


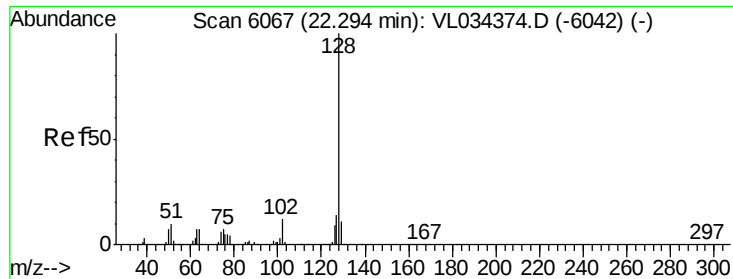
Abundance

Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 7.696 ppbv

RT: 22.29 min Scan# 6066

Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

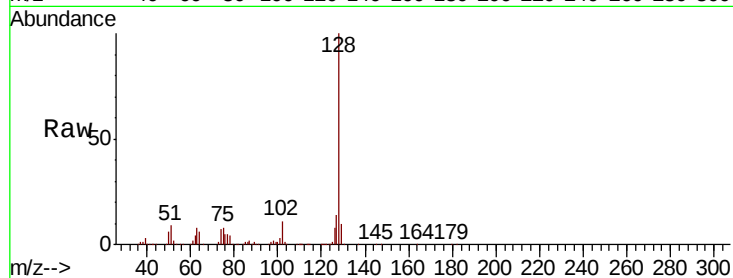
Tgt Ion:128 Resp: 2249753

Ion Ratio Lower Upper

128 100

127 13.6 11.0 16.6

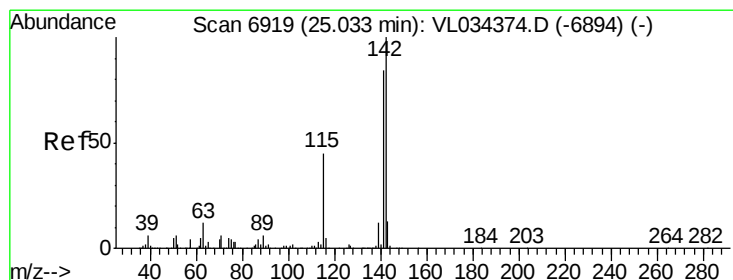
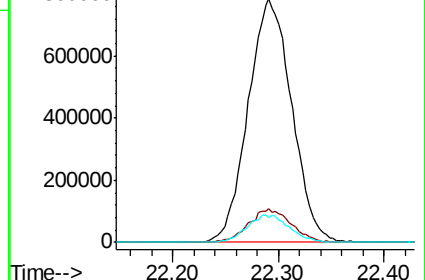
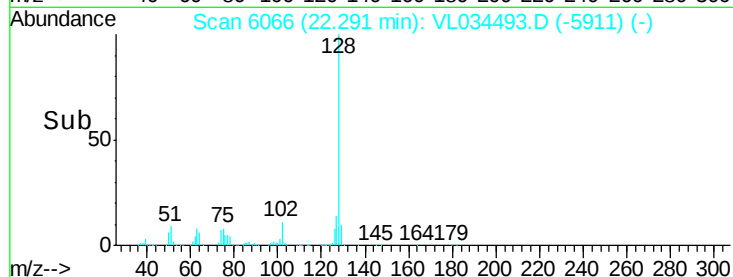
129 10.3 8.9 13.3



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: 4.591 ppbv

RT: 25.03 min Scan# 6919

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

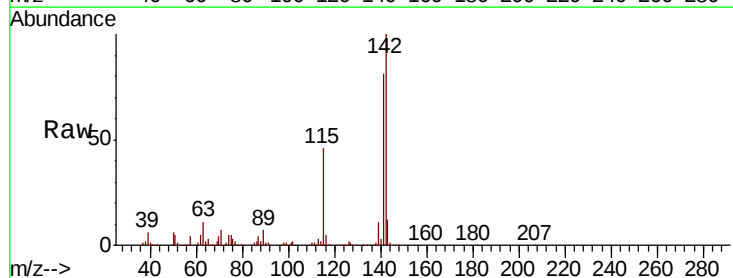
Tgt Ion:142 Resp: 605990

Ion Ratio Lower Upper

142 100

141 83.3 67.1 100.7

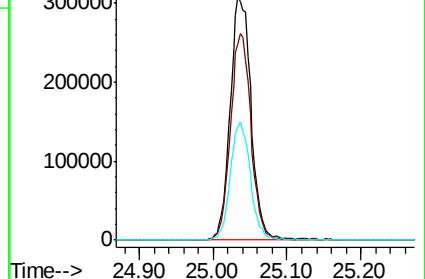
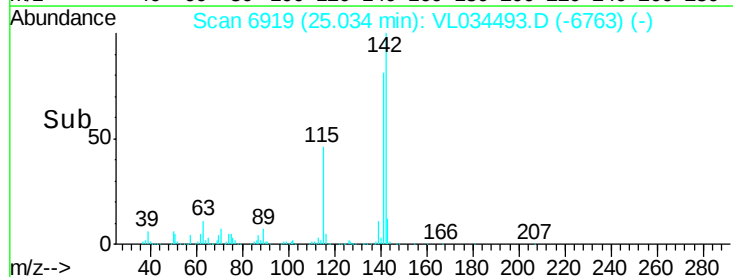
115 46.6 36.6 54.8

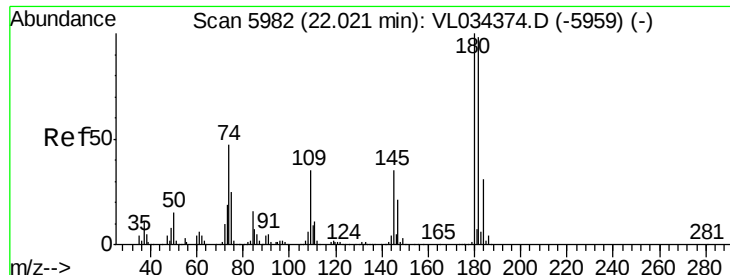


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

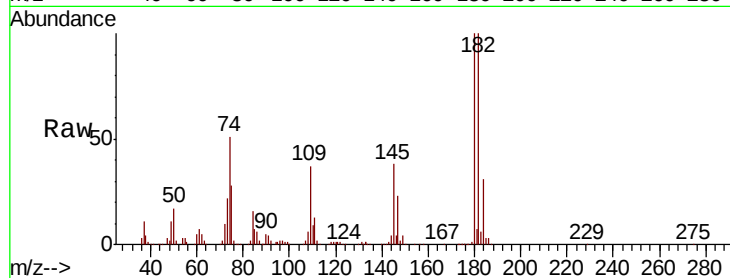




#81
 1,2,4-Trichlorobenzene
 Concen: 7.059 ppbv
 RT: 22.02 min Scan# 5982
 Delta R.T. 0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion:180 Resp: 1267727
 Ion Ratio Lower Upper
 180 100
 182 97.9 76.8 115.2
 184 31.3 24.9 37.3



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

