

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092320\
 Data File : VL035710.D
 Acq On : 23 Sep 2020 7:11
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Quant Time: Sep 23 07:40:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 23 05:25:46 2020
 QLast Update : Wed Sep 23 05:25:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1231934	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4775455	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	5077833	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	3676910	10.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	2210727	10.370	ppbv 97
3) Chlorodifluoromethane	2.98	51	1765700	13.116	ppbv 99
4) Chloromethane	3.13	50	968905	13.438	ppbv 98
5) Vinyl Chloride	3.25	62	1156566	12.927	ppbv 96
6) Bromomethane	3.47	94	992778	13.345	ppbv 98
7) Chloroethane	3.56	64	430582	13.674	ppbv 99
8) Dichlorotetrafluoroethane	3.18	85	2928093	11.465	ppbv 100
9) Propene	3.01	41	706569	13.631	ppbv 100
10) Heptane	8.14	43	2051925	14.499	ppbv 99
11) Trichlorofluoromethane	3.95	101	3681433	11.984	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.49	101	2834144	12.249	ppbv 99
13) Ethanol	3.61	45	151714	11.797	ppbv 97
14) Bromoethene	3.74	108	1299806	13.139	ppbv 100
15) Acetone	3.85	43	1601217	11.975	ppbv 99
16) 1,3-Butadiene	3.32	39	733898	14.575	ppbv 99
17) tert-Butyl alcohol	4.30	59	1886103	11.713	ppbv 100
18) 1,1-Dichloroethene	4.29	96	1347655	13.238	ppbv 99
19) Isopropyl Alcohol	3.97	45	953307	12.111	ppbv 98
20) Methylene Chloride	4.35	84	1133872	11.260	ppbv 97
21) Allyl Chloride	4.41	41	961390	15.189	ppbv 99
22) trans-1,2-Dichloroethene	4.89	96	1414954	13.035	ppbv 99
23) Vinyl Acetate	5.08	43	2492748	14.463	ppbv 99
24) 1,1-Dichloroethane	5.02	63	2395556	13.421	ppbv 99
25) Ethyl Acetate	5.69	43	3277017	13.614	ppbv 99
26) Hexane	5.70	57	1854510	13.634	ppbv 99
27) Carbon Disulfide	4.55	76	2977309	15.339	ppbv 99
28) Methyl tert-Butyl Ether	5.04	73	3117161	13.475	ppbv 99
29) Chloroform	5.76	83	3626478	13.194	ppbv 99
30) Cyclohexane	7.14	84	2064468	14.398	ppbv 98
31) cis-1,2-Dichloroethene	5.56	61	1988634	14.414	ppbv 99
32) 1,1,1-Trichloroethane	6.52	97	3562212	13.402	ppbv 99
34) 2-Butanone	5.25	43	2311532	15.908	ppbv 99
35) Carbon Tetrachloride	7.03	117	3678720	15.243	ppbv 99
36) Benzene	6.91	78	4562182	14.603	ppbv 98
37) 1,2-Dichloroethane	6.32	62	2290752	15.232	ppbv 99
38) Trichloroethene	7.85	130	2275886	12.687	ppbv 99
39) 1,2-Dichloropropane	7.63	63	1618022	15.230	ppbv 99
40) 1,4-Dioxane	7.84	88	724767	13.991	ppbv # 1
41) Tetrahydrofuran	6.06	42	1323902	17.206	ppbv 100
42) Bromodichloromethane	7.81	83	3844499	15.851	ppbv 98
43) Methyl Methacrylate	8.03	69	2019152	16.581	ppbv 99

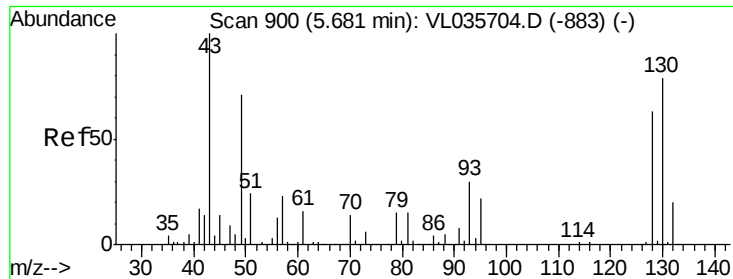
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092320\
 Data File : VL035710.D
 Acq On : 23 Sep 2020 7:11
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Quant Time: Sep 23 07:40:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 23 05:25:46 2020
 QLast Update : Wed Sep 23 05:25:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	5990919	14.382	ppbv	98
45) t-1,3-Dichloropropene	9.30	75	2326500	18.920	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	2706282	17.715	ppbv	97
47) 1,1,2-Trichloroethane	9.50	97	2276575	14.635	ppbv	99
48) Dibromochloromethane	10.33	129	3828852	15.771	ppbv	99
49) Bromoform	13.07	173	3452748	15.968	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	3414290	16.173	ppbv	99
51) 2-Hexanone	10.15	43	2951725	17.092	ppbv #	98
52) Tetrachloroethene	11.25	164	2178165	12.245	ppbv	97
53) Toluene	9.83	91	5642523	14.412	ppbv	98
54) 1,2-Dibromoethane	10.64	107	3572808	14.593	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.15	131	2928771	14.041	ppbv	97
57) Chlorobenzene	12.18	112	4754528	12.553	ppbv	97
58) Ethyl Benzene	12.74	91	7258195	13.611	ppbv	95
59) m/p-Xylene	13.03	91	6421629	14.318	ppbv #	30
60) o-Xylene	13.72	91	6147242	13.629	ppbv	98
61) Styrene	13.56	104	4997168	14.671	ppbv	98
62) Isopropylbenzene	14.70	105	8840584	12.308	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.71	83	4540881	13.008	ppbv	99
64) n-propylbenzene	15.59	120	2980879	13.706	ppbv	84
65) tert-Butylbenzene	16.78	119	8287798	12.466	ppbv	97
66) Benzyl Chloride	17.02	91	3632821	21.285	ppbv	98
67) sec-Butylbenzene	17.33	105	10647079	11.950	ppbv	95
69) p-Isopropyltoluene	17.69	119	9313448	12.025	ppbv	96
70) n-Butylbenzene	18.59	91	9339852	12.401	ppbv	95
71) 2-Chlorotoluene	15.48	91	7123294	13.561	ppbv	97
72) 4-Ethyltoluene	15.87	105	7549981	13.305	ppbv	97
73) 1,3,5-Trimethylbenzene	16.03	105	7060708	13.439	ppbv	97
74) 1,2,4-Trimethylbenzene	16.80	105	7194721	12.457	ppbv	92
75) 1,3-Dichlorobenzene	17.03	146	4953108	11.811	ppbv	99
76) 1,4-Dichlorobenzene	17.17	146	5030498	12.162	ppbv	98
77) 1,2-Dichlorobenzene	17.85	146	4912787	12.100	ppbv	98
78) Hexachloro-1,3-Butadiene	23.41	225	2815855	11.085	ppbv	100
79) Naphthalene	22.24	128	8051466	12.984	ppbv	96
80) Naphthalene, 2-methyl-	25.00	142	3084263	15.282	ppbv	99
81) 1,2,4-Trichlorobenzene	21.97	180	4156272	11.430	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

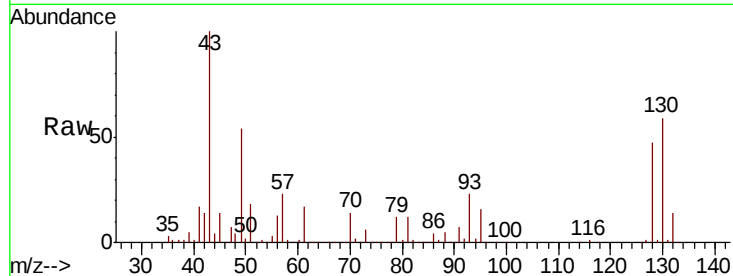
Tot Ion: 49 Resp: 1231934

Ion Ratio Lower Upper

49 100

128 85.8 43.1 129.4

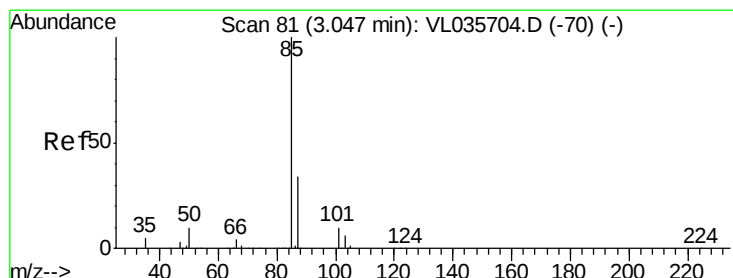
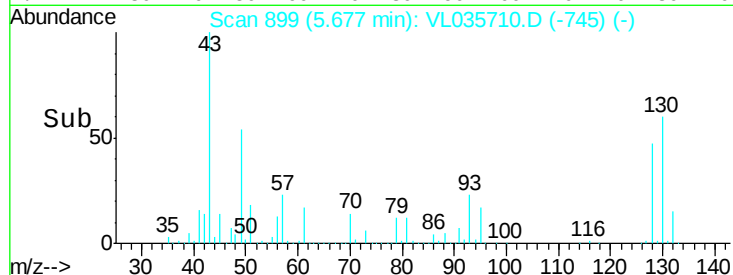
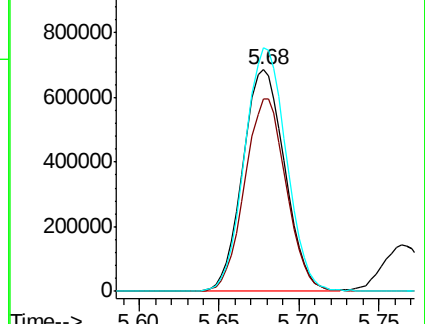
130 109.4 54.9 164.7



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: 10.370 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL035710.D

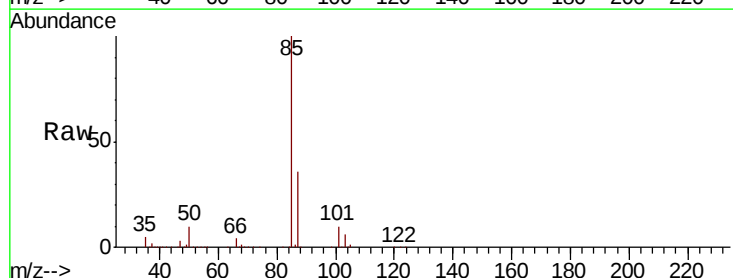
Acq: 23 Sep 2020 7:11

Tgt Ion: 85 Resp: 2210727

Ion Ratio Lower Upper

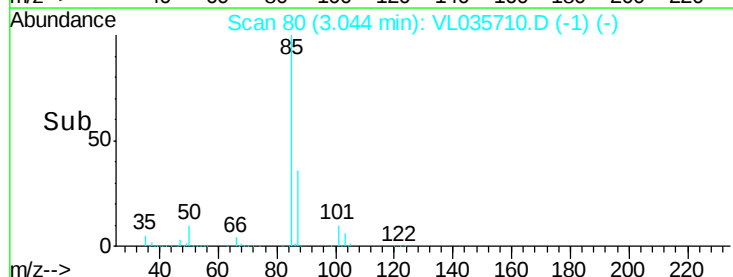
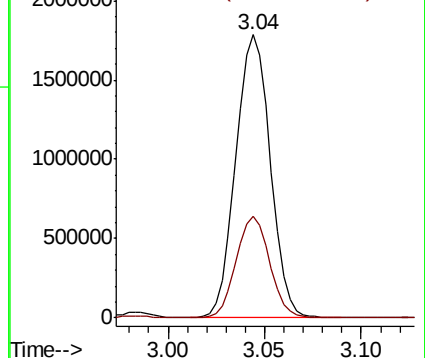
85 100

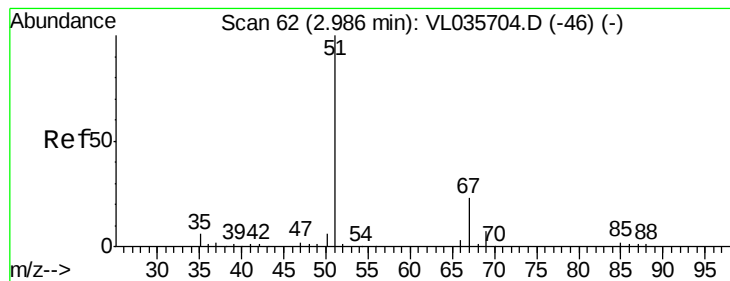
87 35.8 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 13.116 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

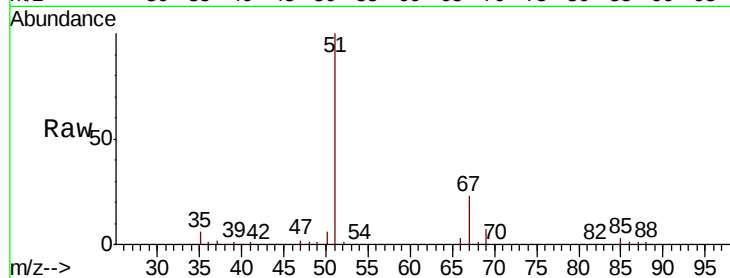
VSTDIC015

Tot Ion: 51 Resp: 1765700

Ion Ratio Lower Upper

51 100

67 22.8 17.8 26.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

1500000

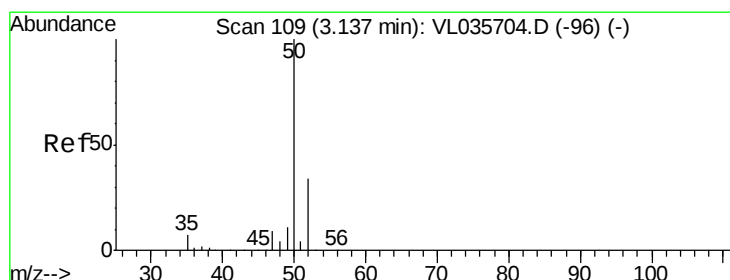
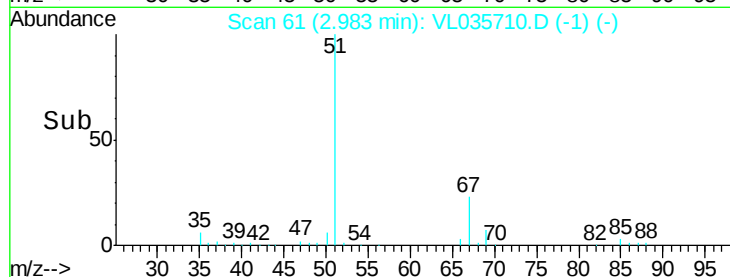
1000000

500000

0

2.90 3.00 3.10

Time-->



#4

Chloromethane

Concen: 13.438 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.00 min

Lab File: VL035710.D

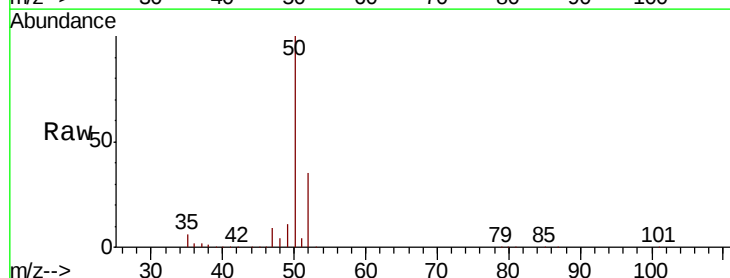
Acq: 23 Sep 2020 7:11

Tgt Ion: 50 Resp: 968905

Ion Ratio Lower Upper

50 100

52 34.6 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

800000

600000

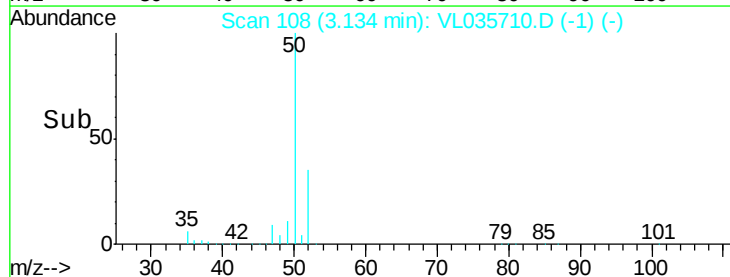
400000

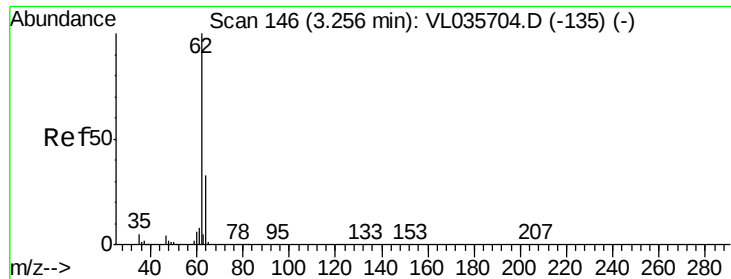
200000

0

3.10 3.15

Time-->





#5

Vinyl Chloride

Concen: 12.927 ppbv

RT: 3.25 min Scan# 145

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

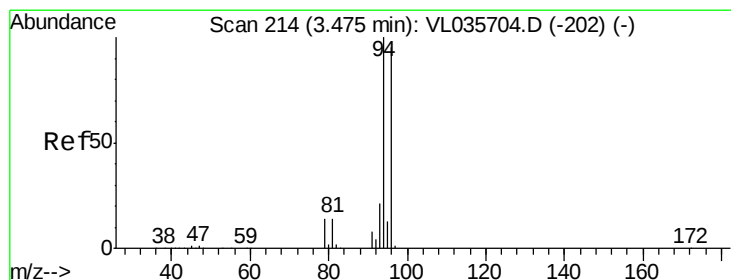
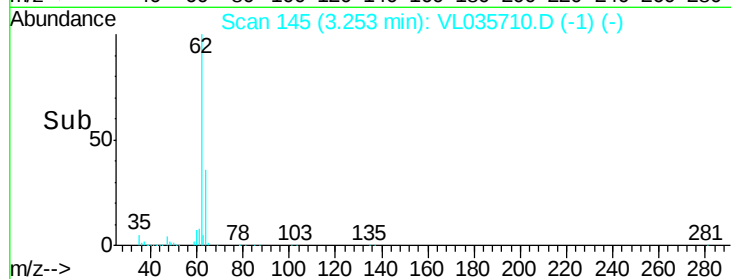
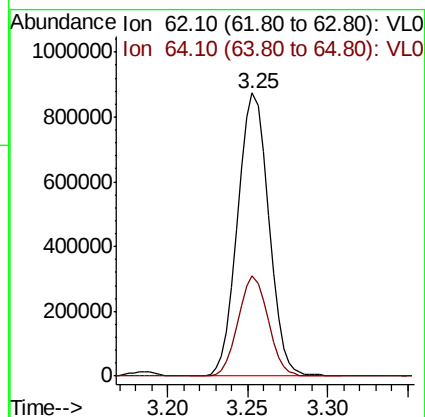
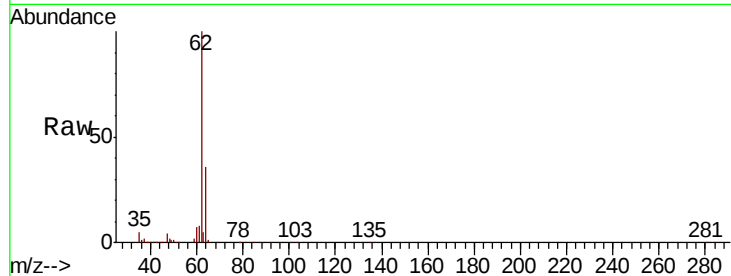
VSTDIC015

Tot Ion: 62 Resp: 1156566

Ion Ratio Lower Upper

62 100

64 35.5 26.8 40.2



#6

Bromomethane

Concen: 13.345 ppbv

RT: 3.47 min Scan# 213

Delta R.T. -0.00 min

Lab File: VL035710.D

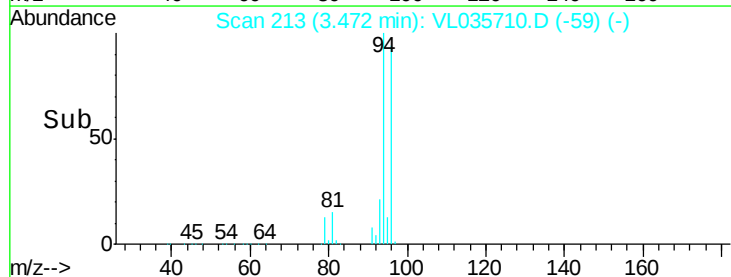
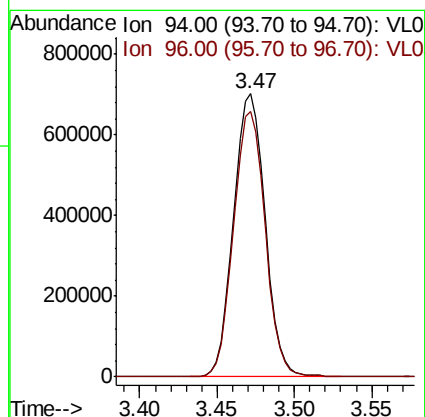
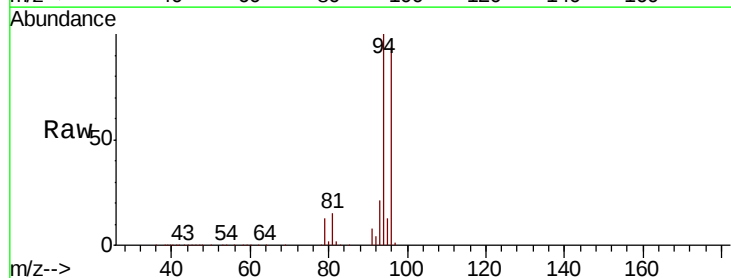
Acq: 23 Sep 2020 7:11

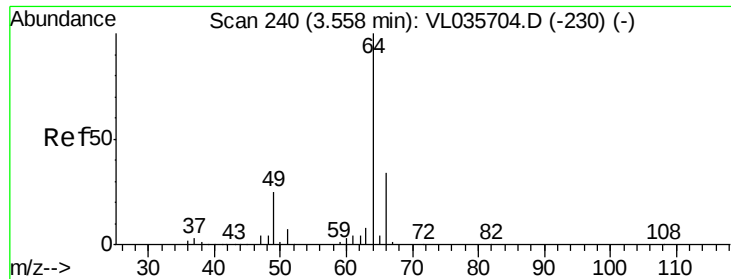
Tgt Ion: 94 Resp: 992778

Ion Ratio Lower Upper

94 100

96 93.9 76.3 114.5





#7

Chloroethane

Concen: 13.674 ppbv

RT: 3.56 min Scan# 239

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

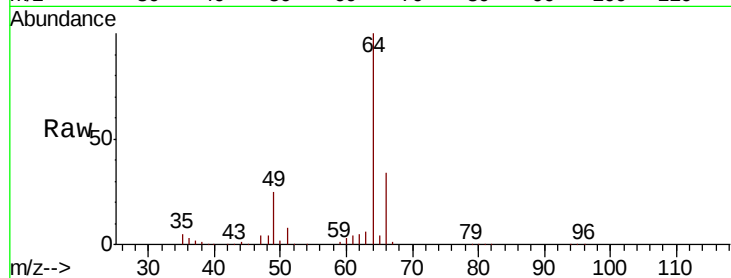
VSTDIC015

Tot Ion: 64 Resp: 430582

Ion Ratio Lower Upper

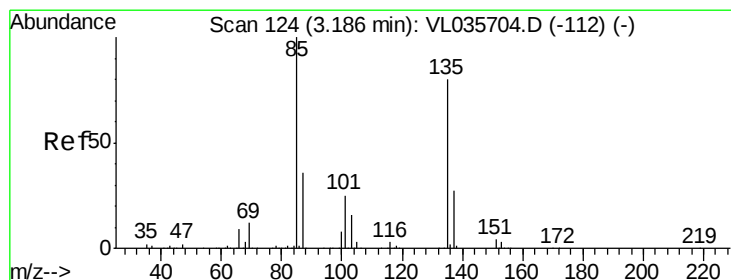
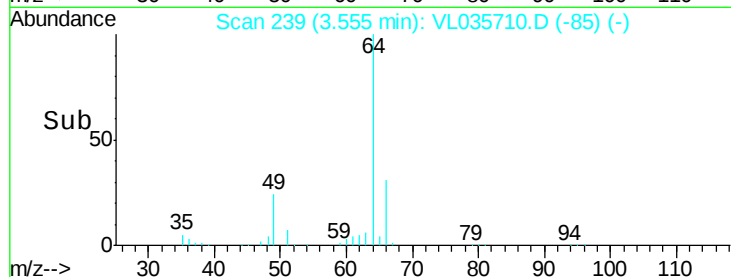
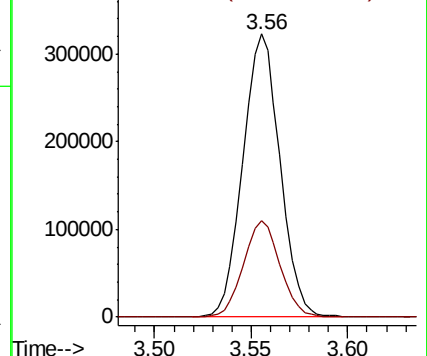
64 100

66 33.9 26.9 40.3



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 11.465 ppbv

RT: 3.18 min Scan# 123

Delta R.T. -0.00 min

Lab File: VL035710.D

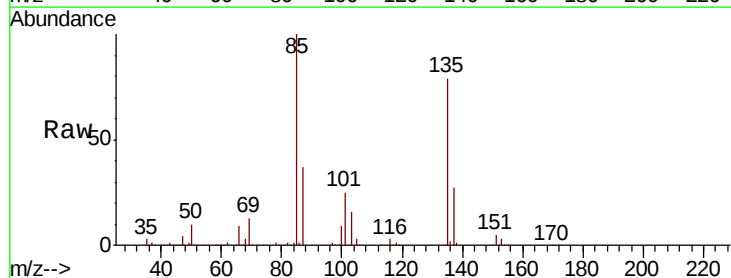
Acq: 23 Sep 2020 7:11

Tgt Ion: 85 Resp: 2928093

Ion Ratio Lower Upper

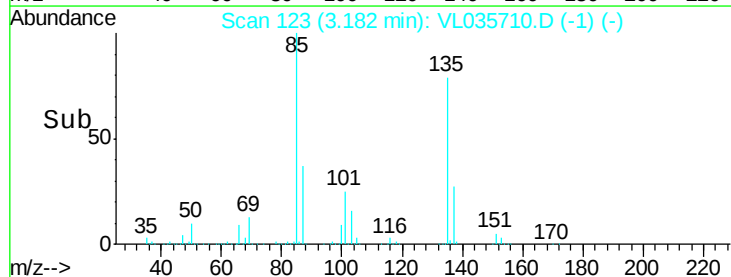
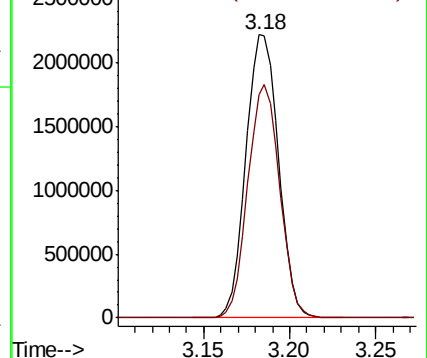
85 100

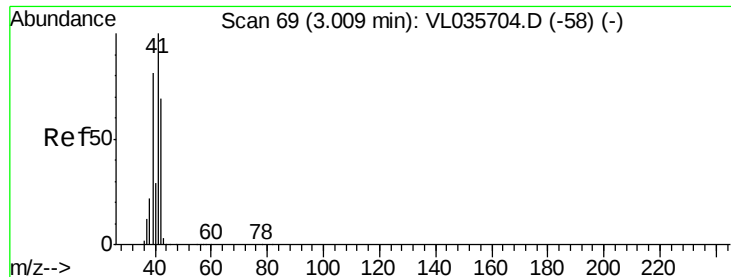
135 80.8 64.3 96.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 13.631 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

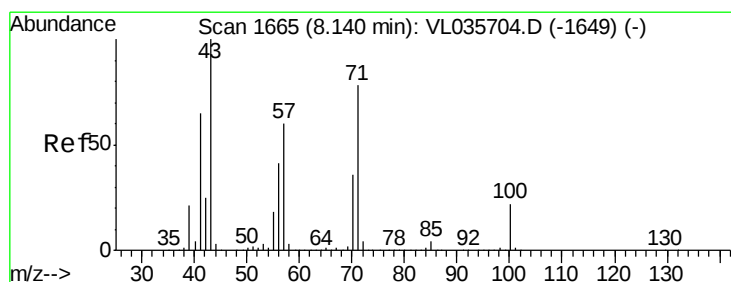
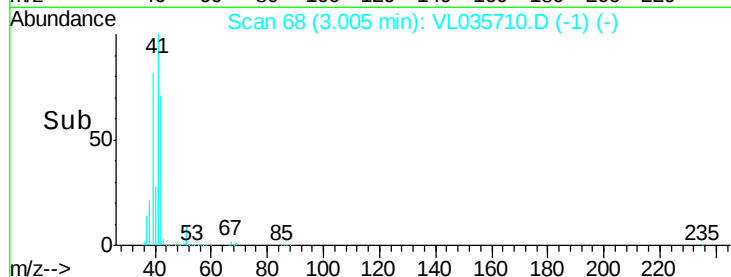
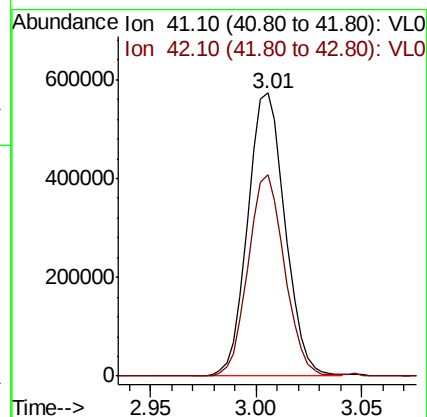
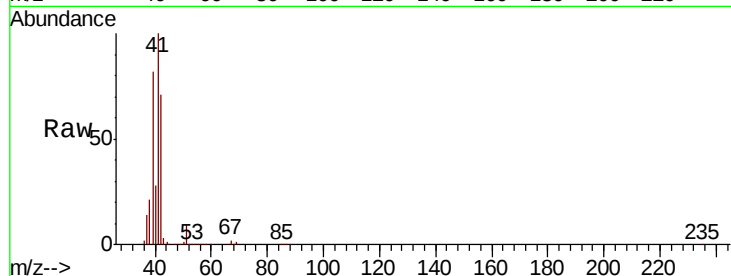
VSTDIC015

Tot Ion: 41 Resp: 706569

Ion Ratio Lower Upper

41 100

42 70.1 56.2 84.4



#10

Heptane

Concen: 14.499 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. -0.00 min

Lab File: VL035710.D

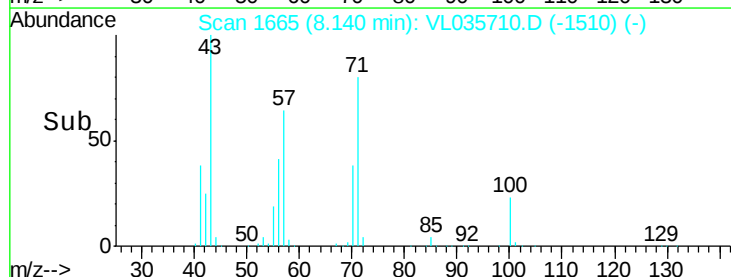
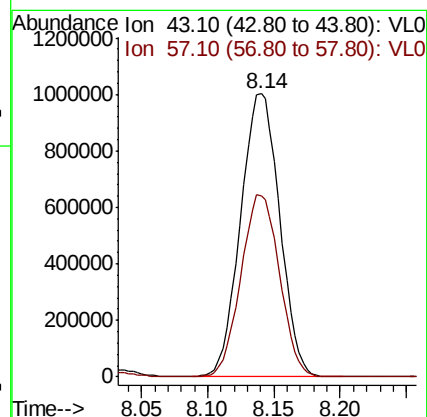
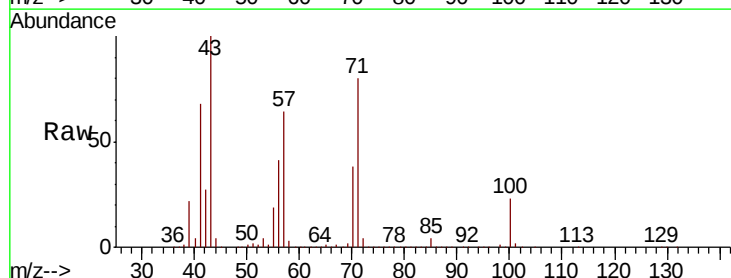
Acq: 23 Sep 2020 7:11

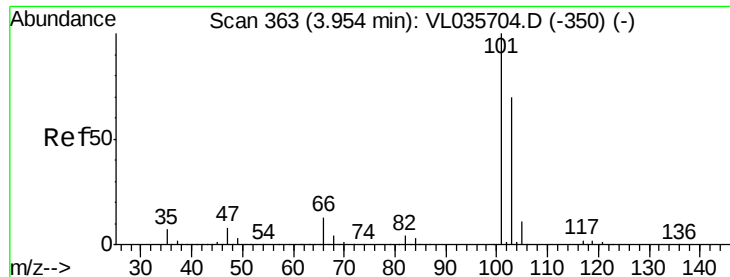
Tgt Ion: 43 Resp: 2051925

Ion Ratio Lower Upper

43 100

57 63.8 50.4 75.6

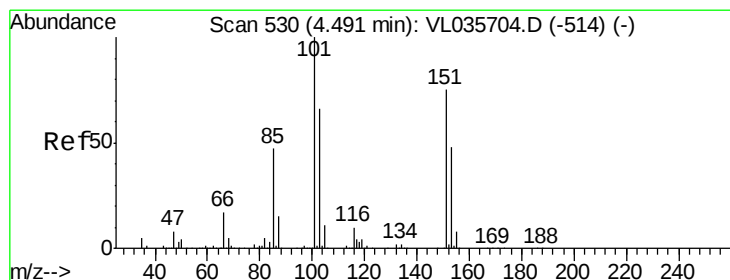
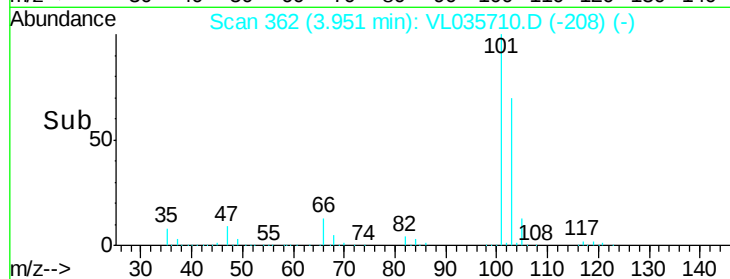
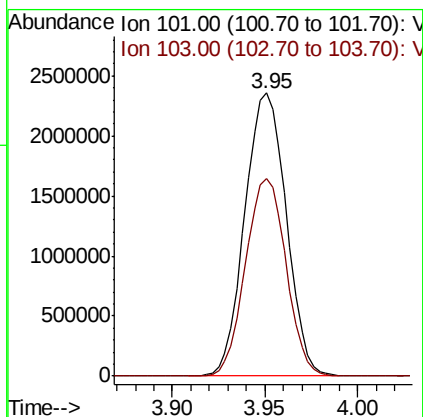
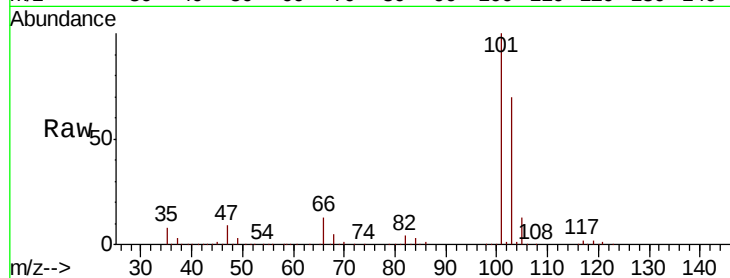




#11
 Trichlorofluoromethane
 Concen: 11.984 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

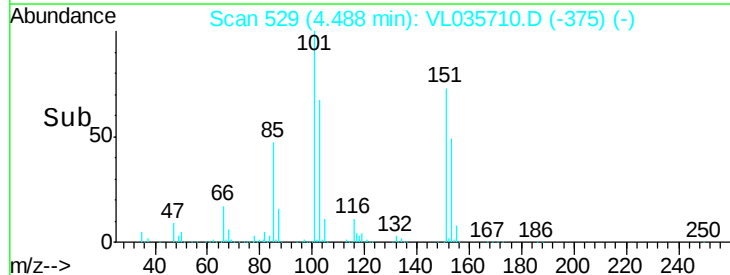
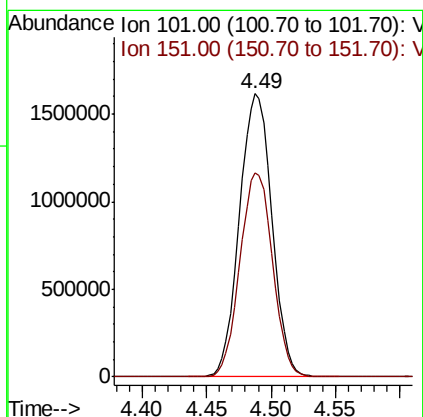
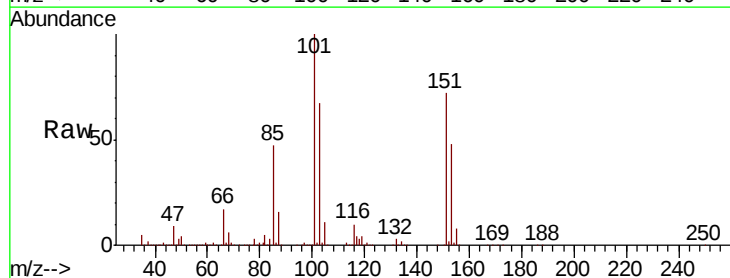
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

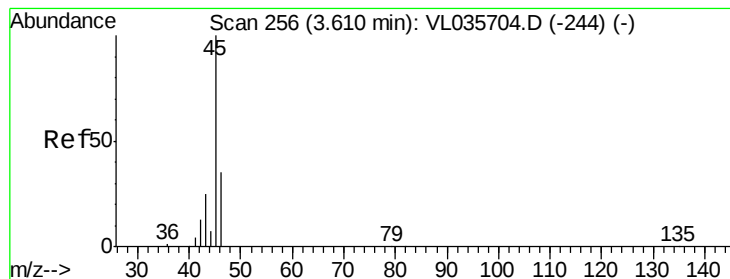
Tot Ion:101 Resp: 3681433
 Ion Ratio Lower Upper
 101 100
 103 69.9 55.6 83.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 12.249 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Tgt Ion:101 Resp: 2834144
 Ion Ratio Lower Upper
 101 100
 151 72.8 59.1 88.7





#13

Ethanol

Concen: 11.797 ppbv

RT: 3.61 min Scan# 256

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

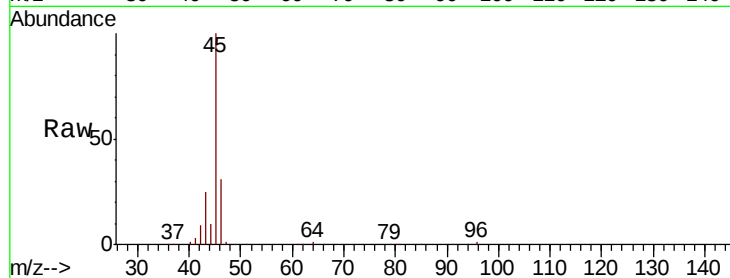
VSTDIC015

Tot Ion: 45 Resp: 151714

Ion Ratio Lower Upper

45 100

46 35.1 14.7 58.7



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.61

80000

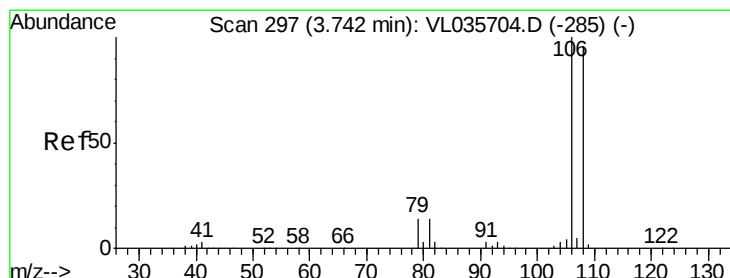
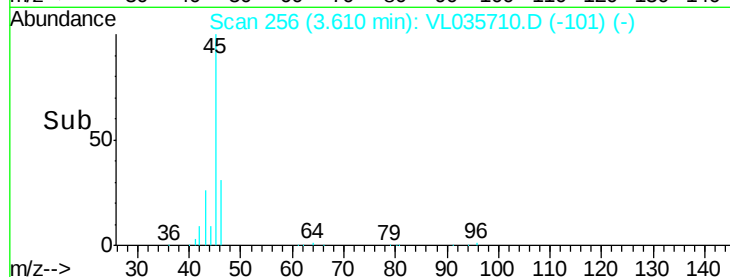
60000

40000

20000

0

Time-->



#14

Bromoethene

Concen: 13.139 ppbv

RT: 3.74 min Scan# 296

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

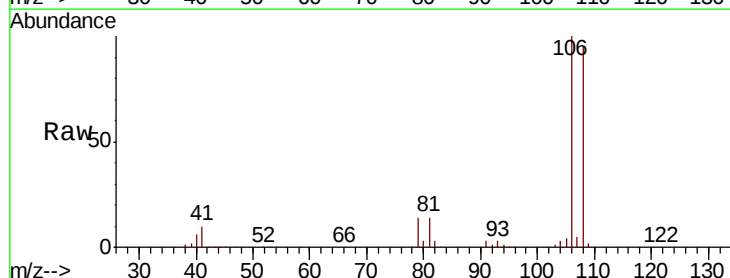
Tgt Ion: 108 Resp: 1299806

Ion Ratio Lower Upper

108 100

106 105.3 84.6 126.8

79 14.8 11.6 17.4



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0

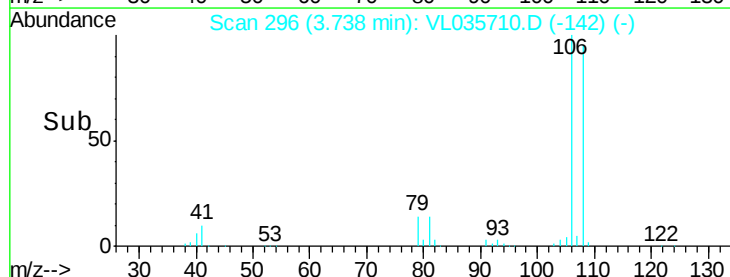
3.74

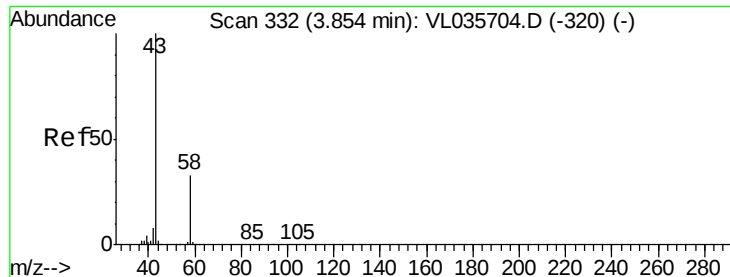
1000000

500000

0

Time-->





#15

Acetone

Concen: 11.975 ppbv

RT: 3.85 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

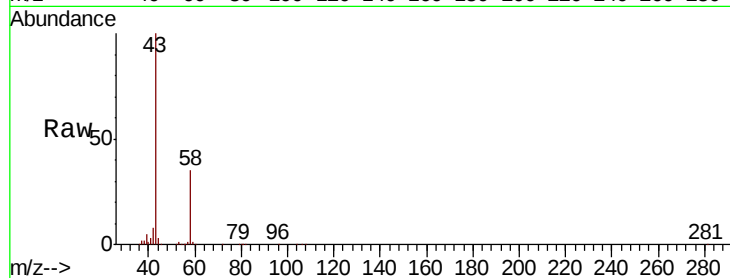
VSTDIC015

Tot Ion: 43 Resp: 1601217

Ion Ratio Lower Upper

43 100

58 34.9 27.3 40.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

1200000

1000000

800000

600000

400000

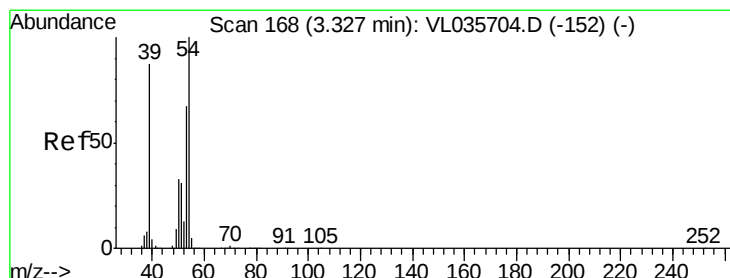
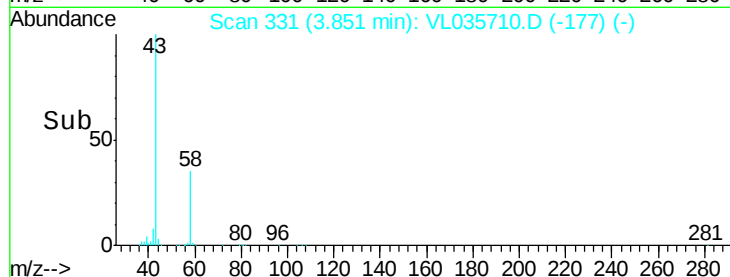
200000

0

3.85

3.80 3.85 3.90

Time-->



#16

1,3-Butadiene

Concen: 14.575 ppbv

RT: 3.32 min Scan# 167

Delta R.T. -0.00 min

Lab File: VL035710.D

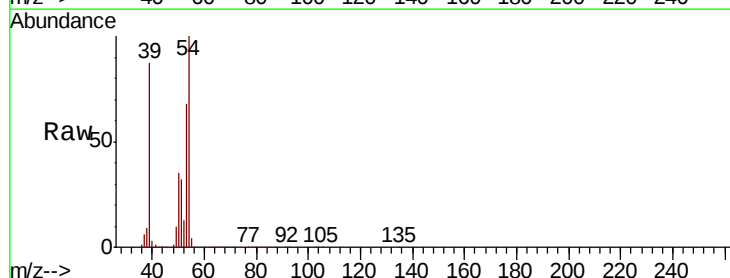
Acq: 23 Sep 2020 7:11

Tgt Ion: 39 Resp: 733898

Ion Ratio Lower Upper

39 100

54 107.9 87.4 131.0



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

600000

400000

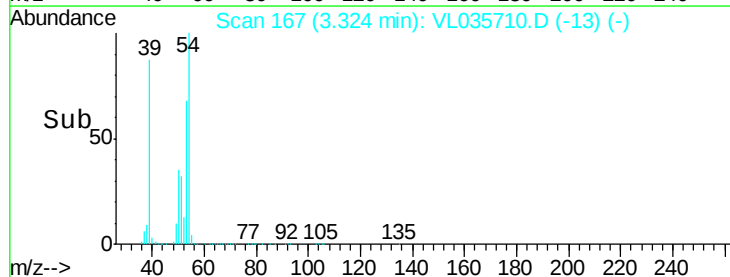
200000

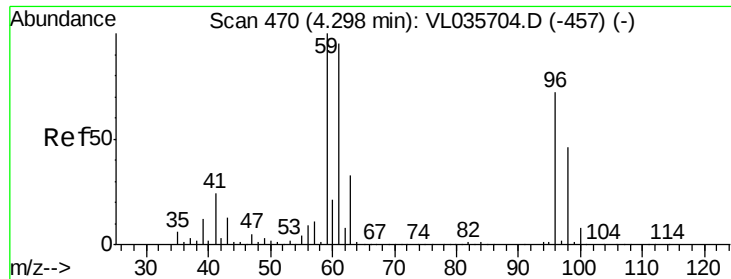
0

3.32

3.25 3.30 3.35

Time-->





#17

tert-Butyl alcohol

Concen: 11.713 ppbv

RT: 4.30 min Scan# 470

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

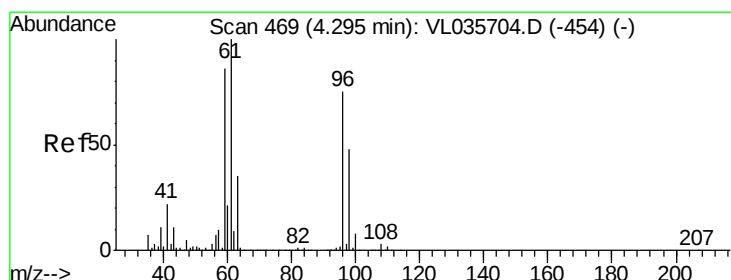
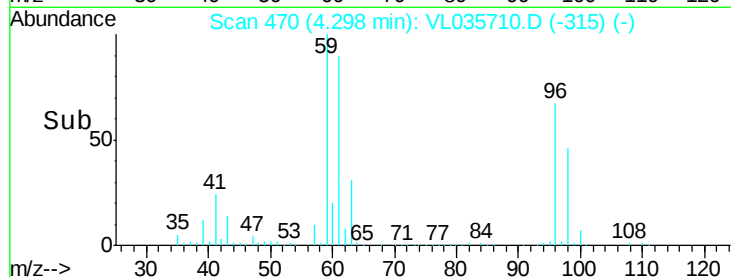
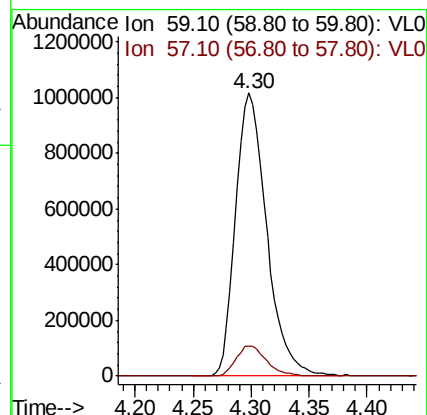
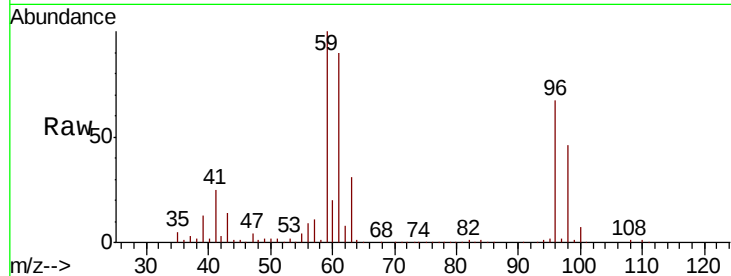
VSTDIC015

Tot Ion: 59 Resp: 1886103

Ion Ratio Lower Upper

59 100

57 10.6 8.5 12.7



#18

1,1-Dichloroethene

Concen: 13.238 ppbv

RT: 4.29 min Scan# 468

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

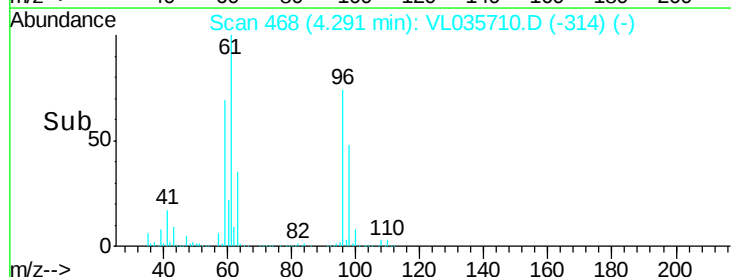
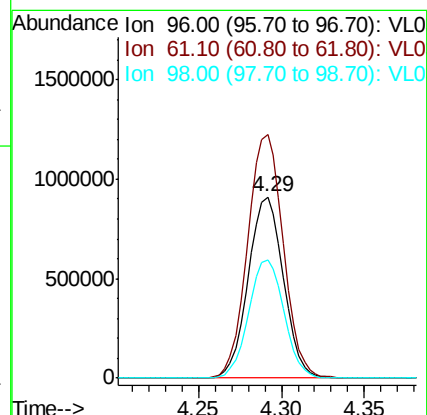
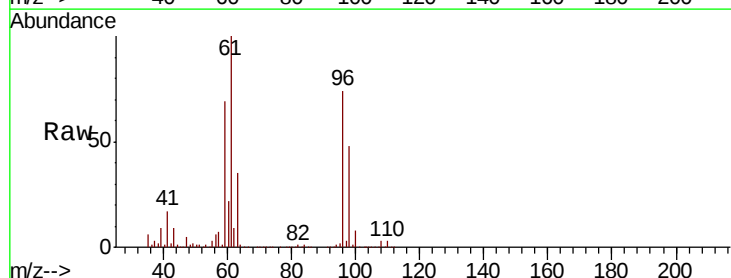
Tgt Ion: 96 Resp: 1347655

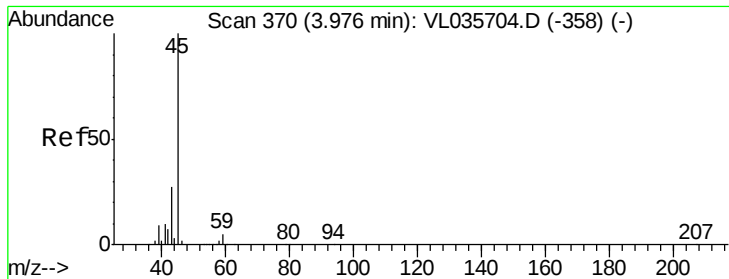
Ion Ratio Lower Upper

96 100

61 134.4 106.7 160.1

98 65.0 50.8 76.2



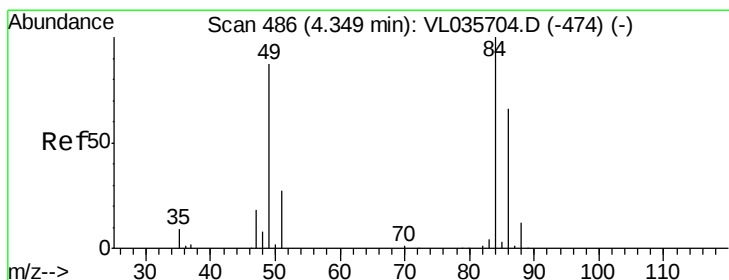
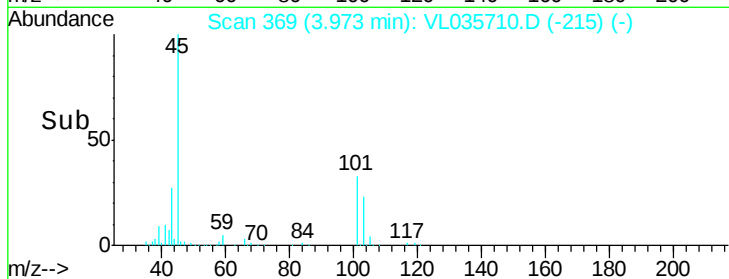
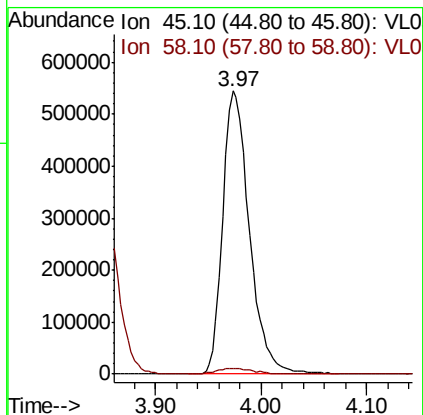
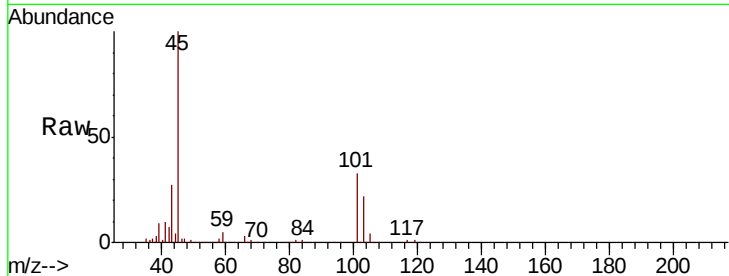


#19

Isopropyl Alcohol
 Concen: 12.111 ppbv
 RT: 3.97 min Scan# 369
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

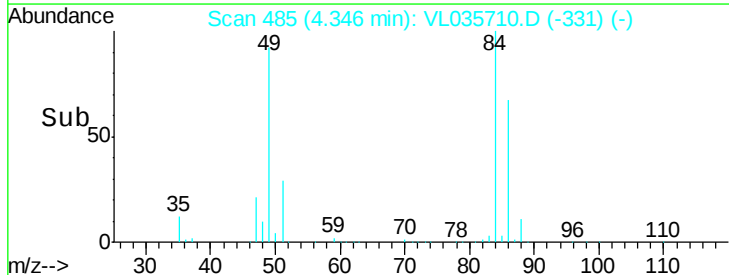
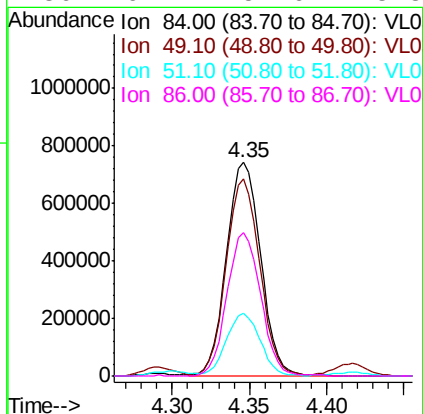
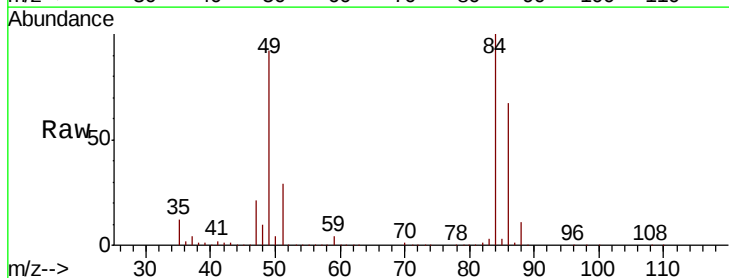
Tot Ion: 45 Resp: 953307
 Ion Ratio Lower Upper
 45 100
 58 2.9 2.8 4.2

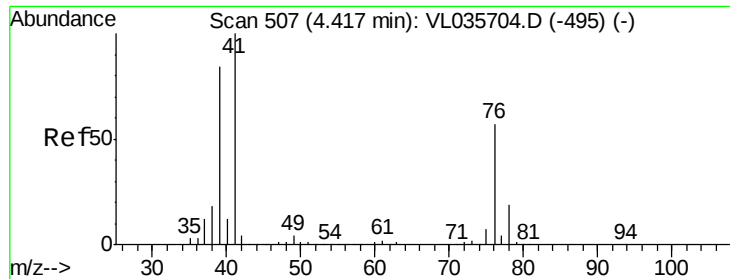


#20

Methylene Chloride
 Concen: 11.260 ppbv
 RT: 4.35 min Scan# 485
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Tgt Ion: 84 Resp: 1133872
 Ion Ratio Lower Upper
 84 100
 49 91.8 69.8 104.6
 51 28.2 21.8 32.8
 86 67.1 52.6 78.8





#21

Allvl Chloride

Concen: 15.189 ppbv

RT: 4.41 min Scan# 506

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

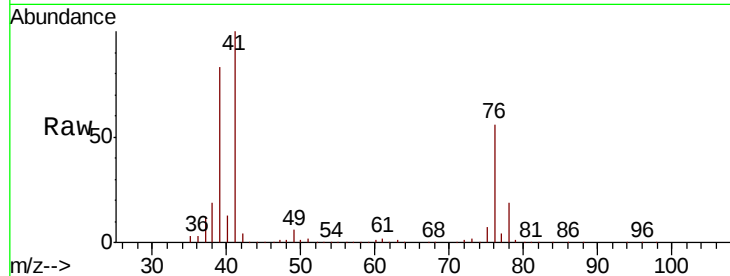
Tot Ion: 41 Resp: 961390

Ion Ratio Lower Upper

41 100

76 56.4 44.8 67.2

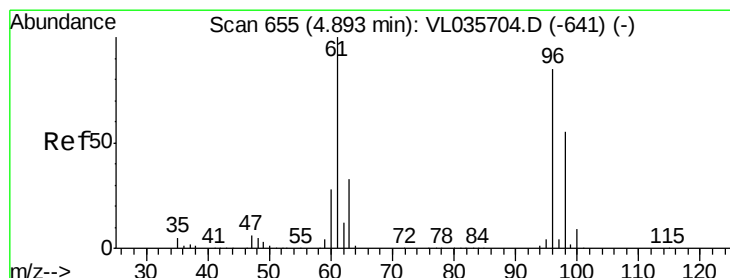
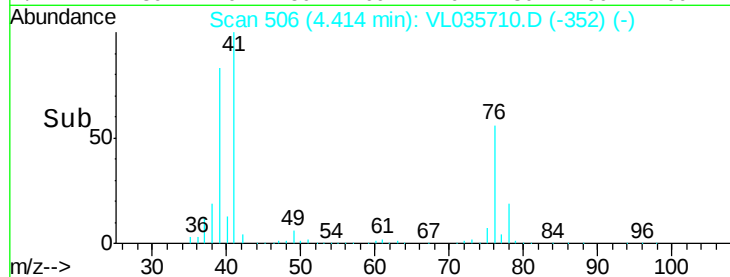
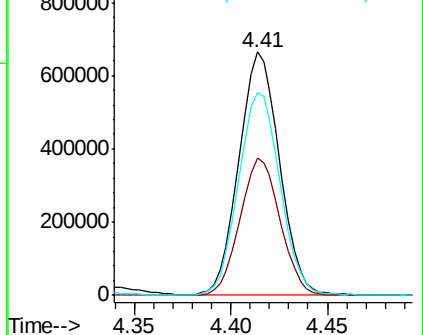
39 86.7 68.4 102.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 13.035 ppbv

RT: 4.89 min Scan# 654

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

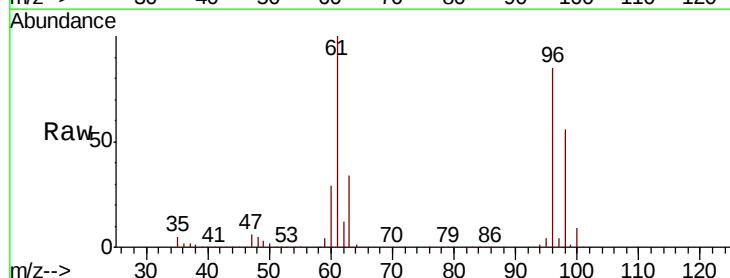
Tgt Ion: 96 Resp: 1414954

Ion Ratio Lower Upper

96 100

61 117.3 93.7 140.5

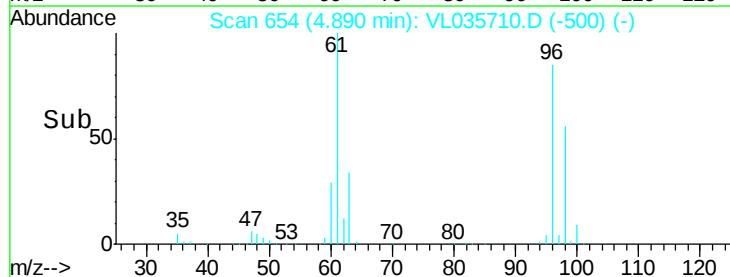
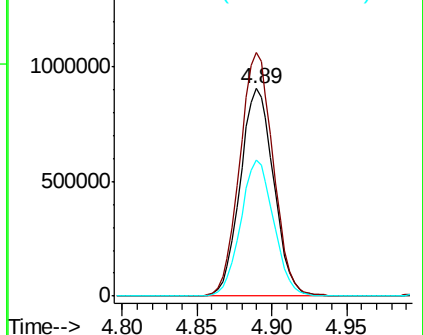
98 65.5 51.2 76.8

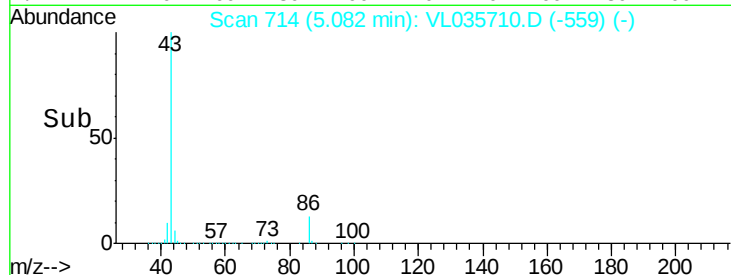
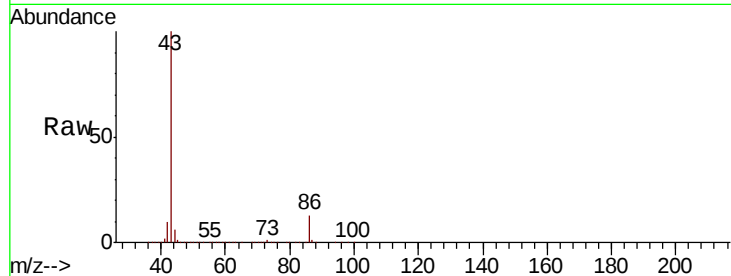
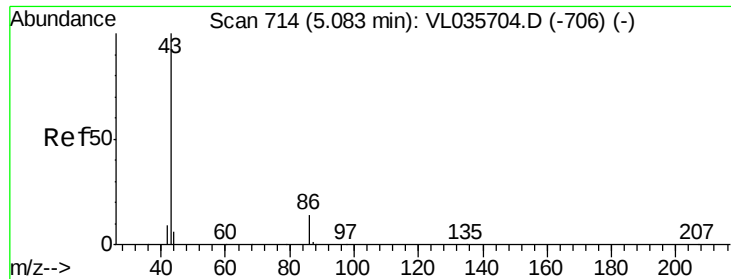


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 14.463 ppbv

RT: 5.08 min Scan# 714

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2492748

Ion Ratio Lower Upper

43 100

86 12.9 9.7 14.5

42 10.1 7.9 11.9

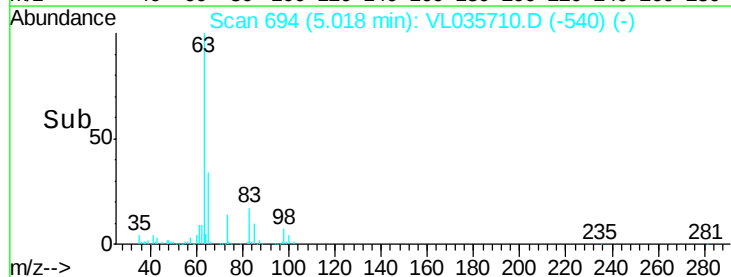
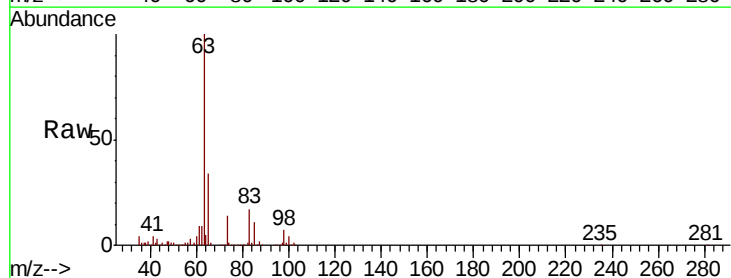
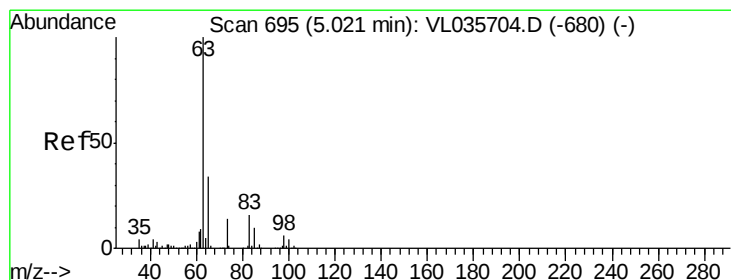
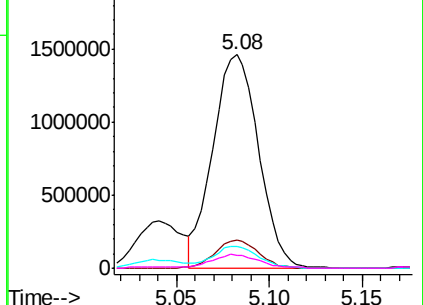
44 6.1 4.8 7.2

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: 13.421 ppbv

RT: 5.02 min Scan# 694

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Tgt Ion: 63 Resp: 2395556

Ion Ratio Lower Upper

63 100

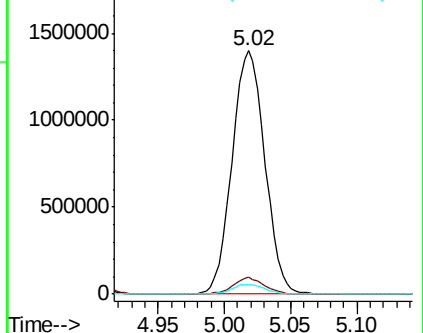
98 7.0 3.3 9.8

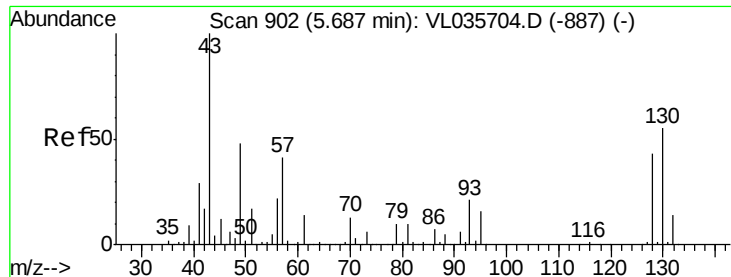
100 4.1 2.0 5.8

Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



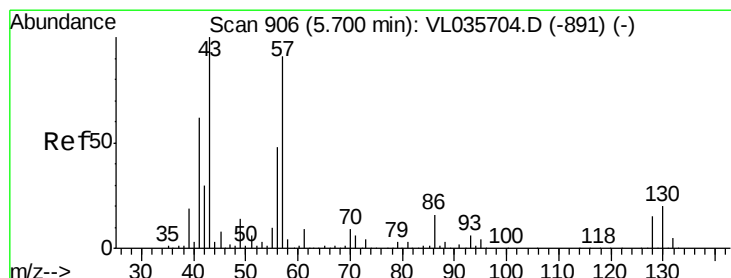
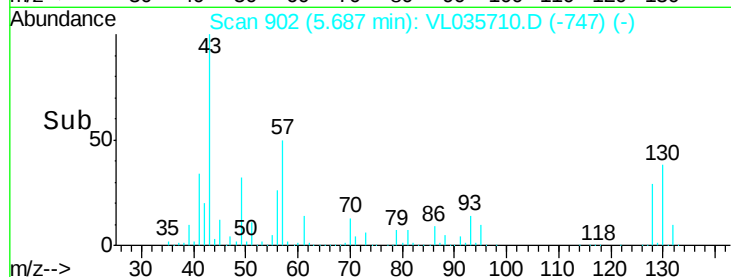
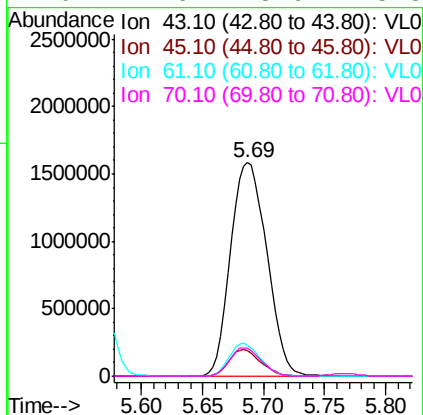
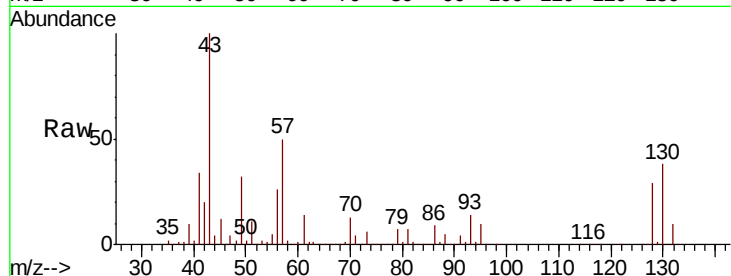


#25
Ethyl Acetate
Concen: 13.614 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 3277017

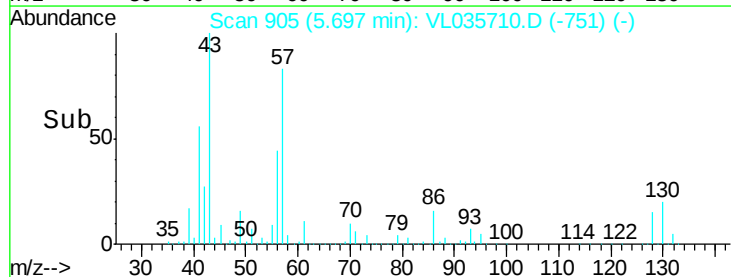
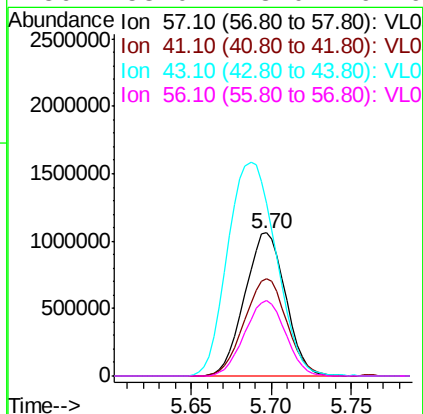
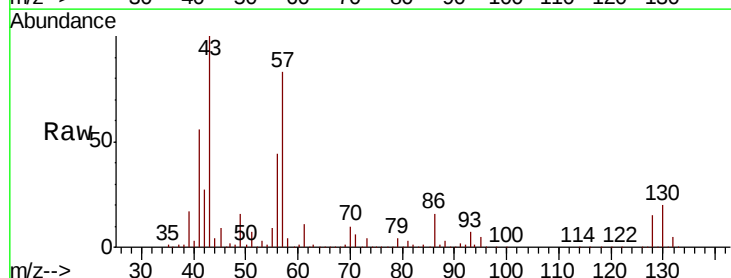
Ion	Ratio	Lower	Upper
43	100		
45	10.9	8.6	12.8
61	13.4	10.4	15.6
70	11.6	8.9	13.3

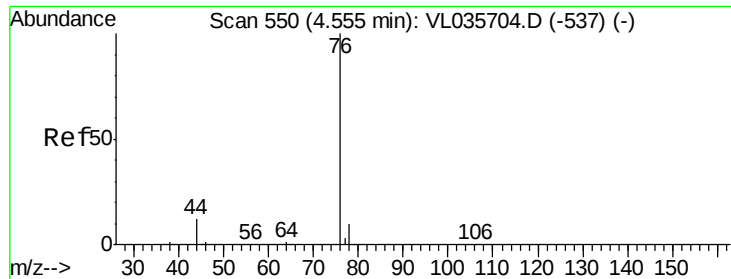


#26
Hexane
Concen: 13.634 ppbv
RT: 5.70 min Scan# 905
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Tgt Ion: 57 Resp: 1854510

Ion	Ratio	Lower	Upper
57	100		
41	72.2	57.9	86.9
43	177.2	143.8	215.6
56	53.0	43.0	64.6





#27

Carbon Disulfide

Concen: 15.339 ppbv

RT: 4.55 min Scan# 549

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

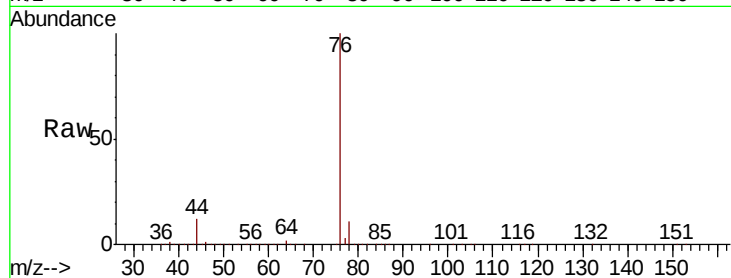
Tot Ion: 76 Resp: 2977309

Ion Ratio Lower Upper

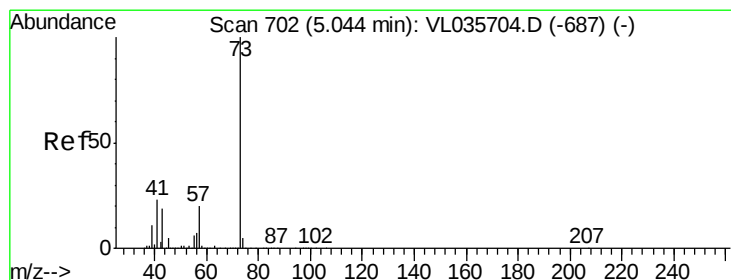
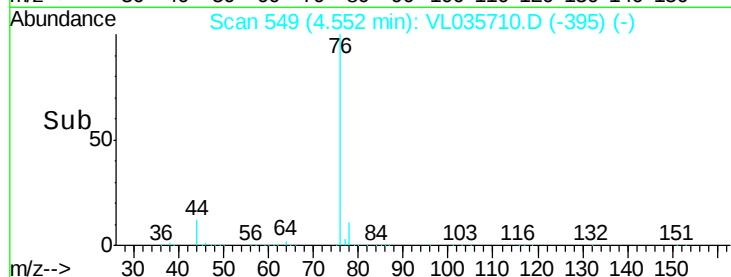
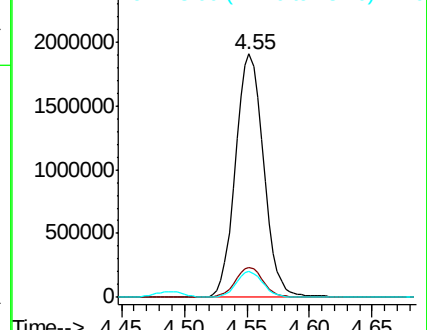
76 100

44 12.3 9.7 14.5

78 10.1 7.8 11.8



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



#28

Methyl tert-Butyl Ether

Concen: 13.475 ppbv

RT: 5.04 min Scan# 701

Delta R.T. -0.00 min

Lab File: VL035710.D

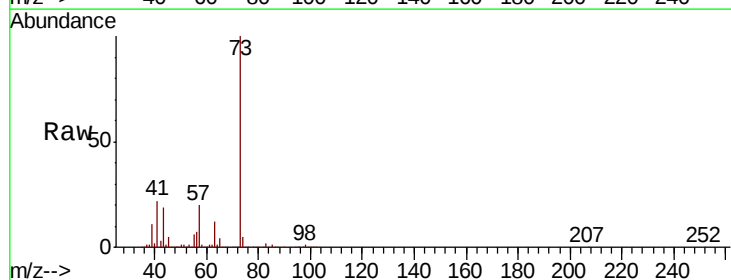
Acq: 23 Sep 2020 7:11

Tgt Ion: 73 Resp: 3117161

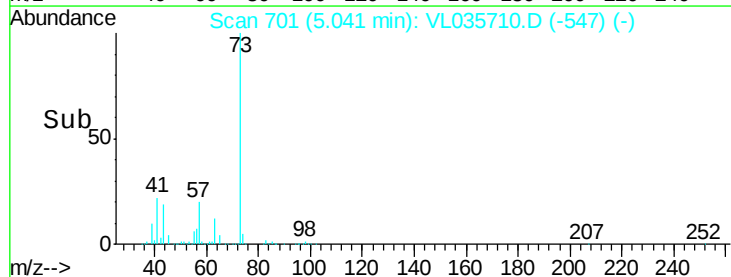
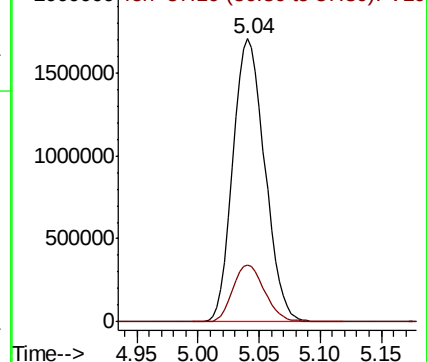
Ion Ratio Lower Upper

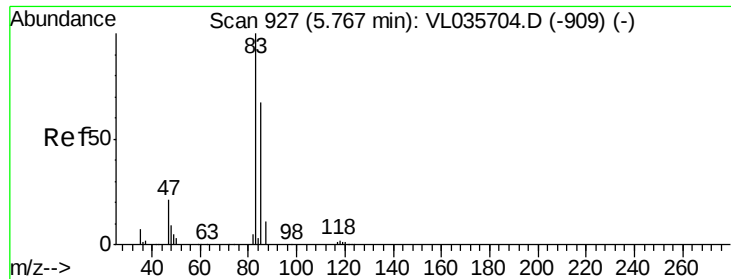
73 100

57 20.1 15.6 23.4



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

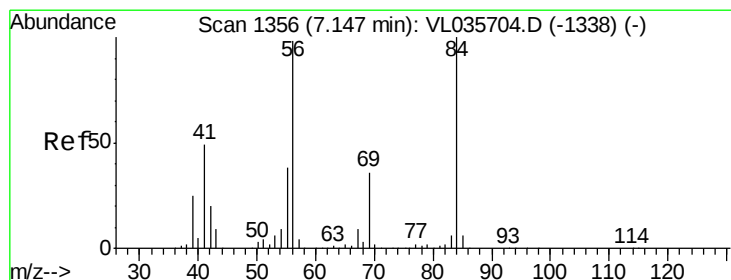
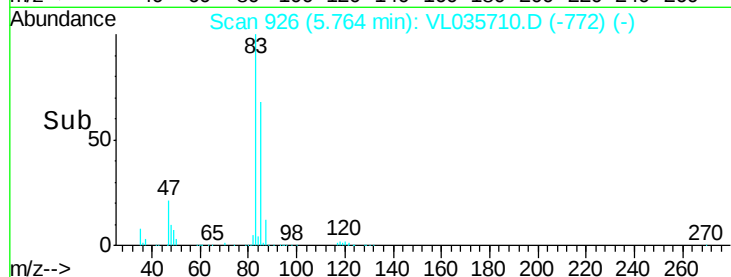
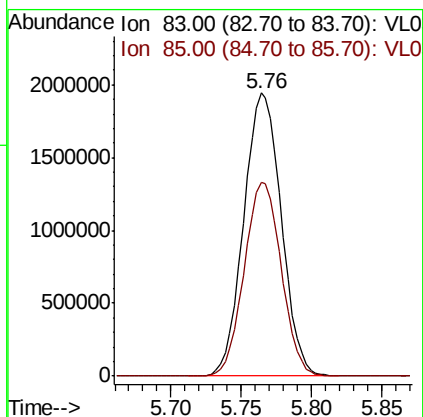
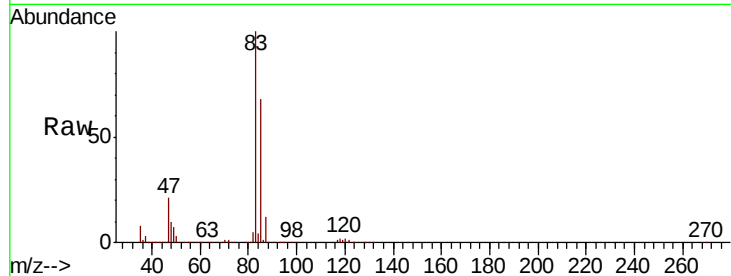




#29
Chloroform
Concen: 13.194 ppbv
RT: 5.76 min Scan# 926
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

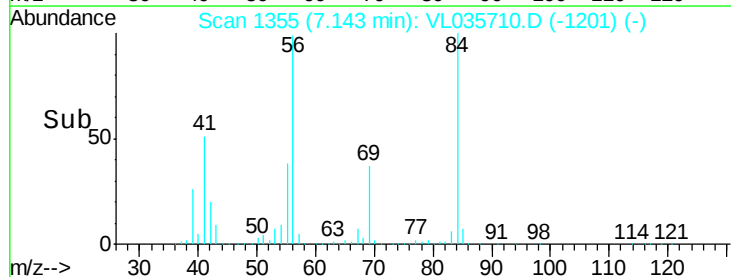
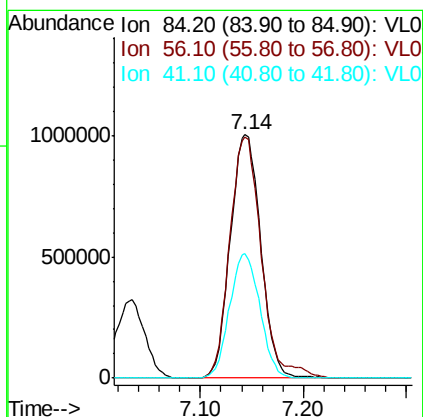
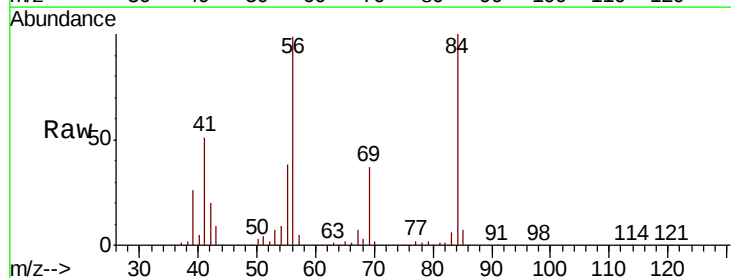
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

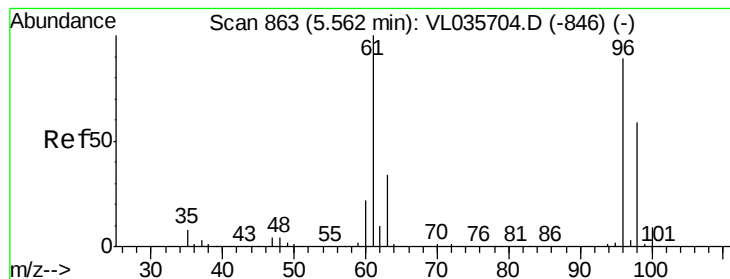
Tot Ion: 83 Resp: 3626478
Ion Ratio Lower Upper
83 100
85 68.2 54.0 81.0



#30
Cyclohexane
Concen: 14.398 ppbv
RT: 7.14 min Scan# 1355
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Tgt Ion: 84 Resp: 2064468
Ion Ratio Lower Upper
84 100
56 102.9 84.6 127.0
41 50.9 41.1 61.7



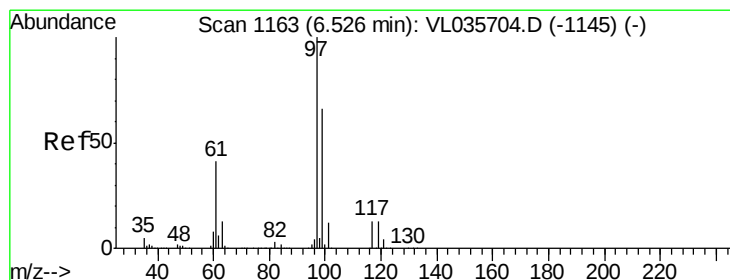
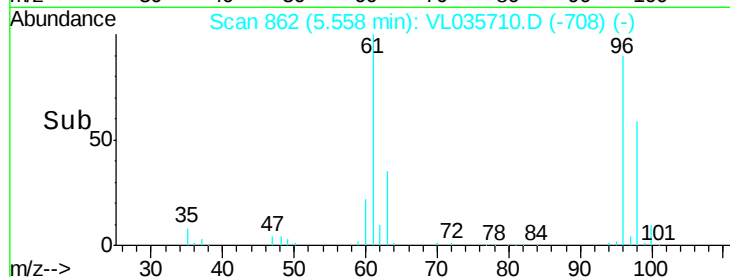
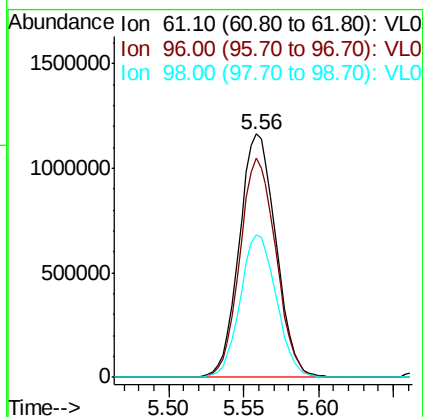
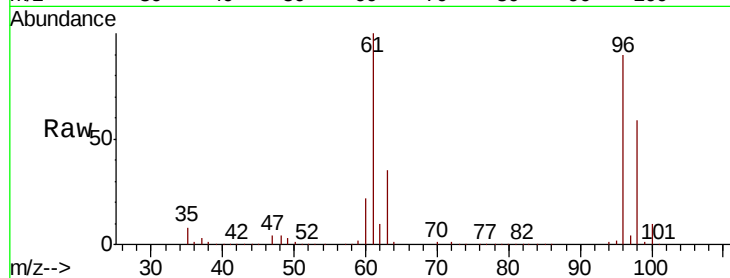


#31

cis-1,2-Dichloroethene
 Concen: 14.414 ppbv
 RT: 5.56 min Scan# 862
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

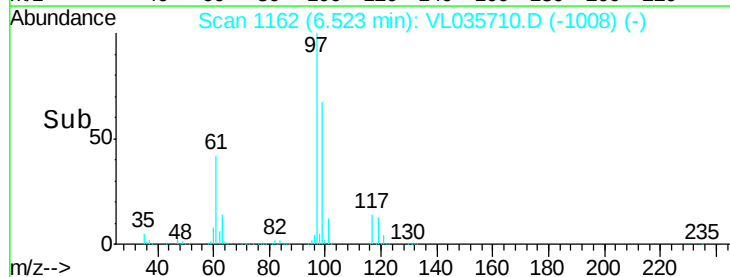
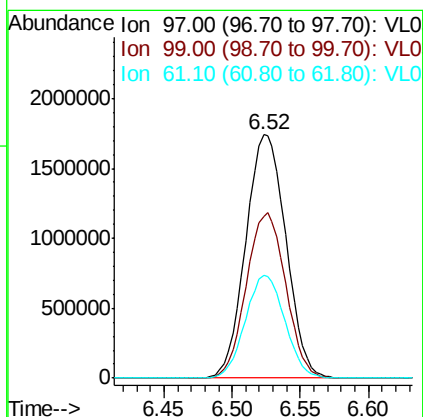
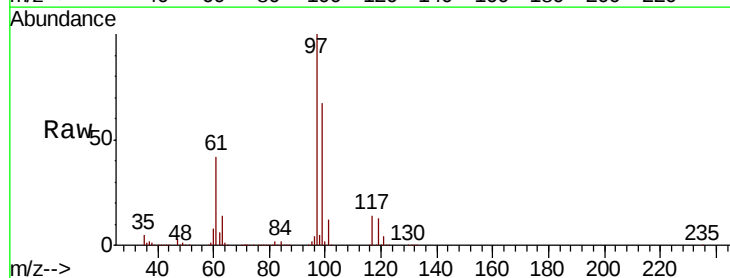
Tot Ion: 61 Resp: 1988634
 Ion Ratio Lower Upper
 61 100
 96 90.0 71.4 107.2
 98 58.5 47.4 71.2

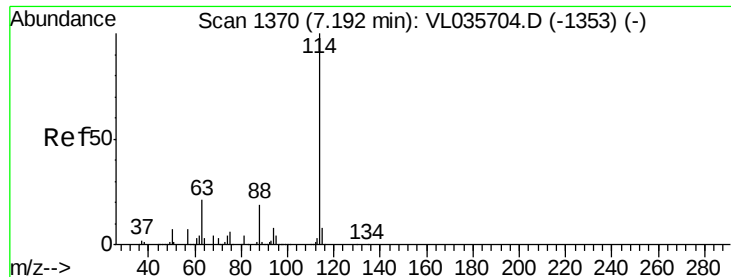


#32

1,1,1-Trichloroethane
 Concen: 13.402 ppbv
 RT: 6.52 min Scan# 1162
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Tgt Ion: 97 Resp: 3562212
 Ion Ratio Lower Upper
 97 100
 99 66.7 52.7 79.1
 61 41.5 32.7 49.1

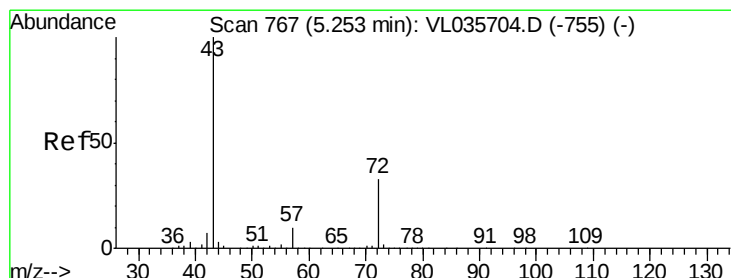
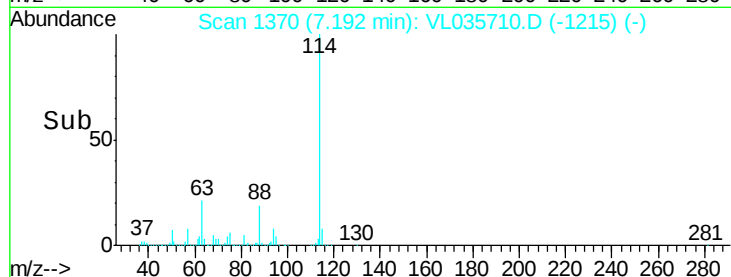
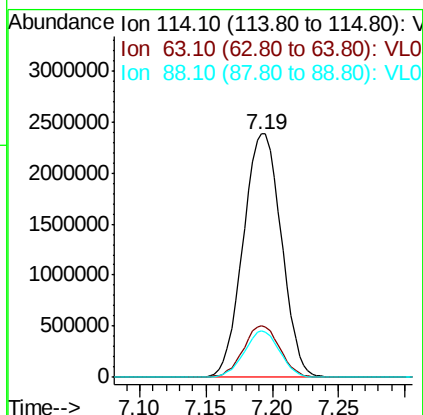
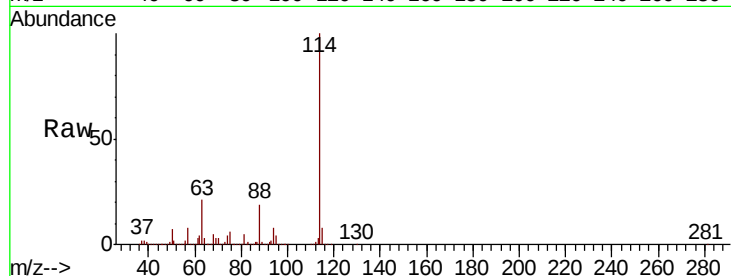




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

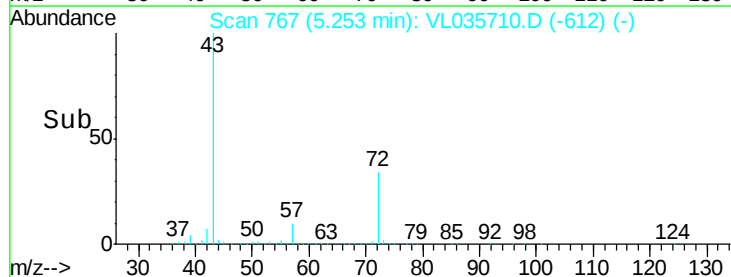
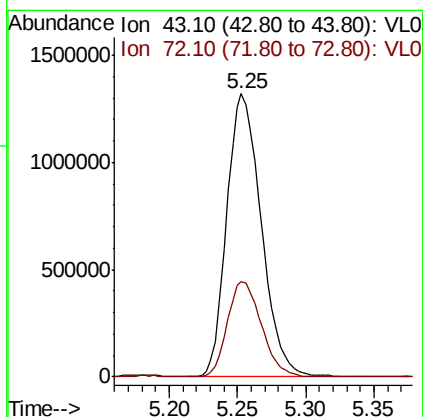
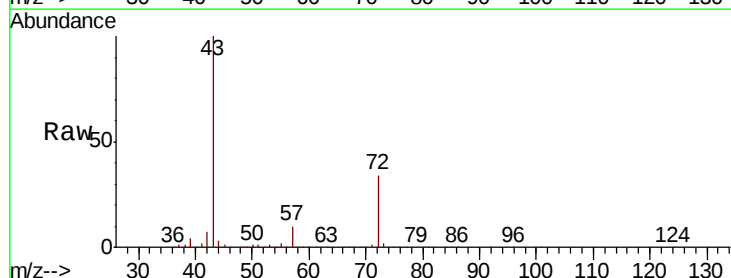
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

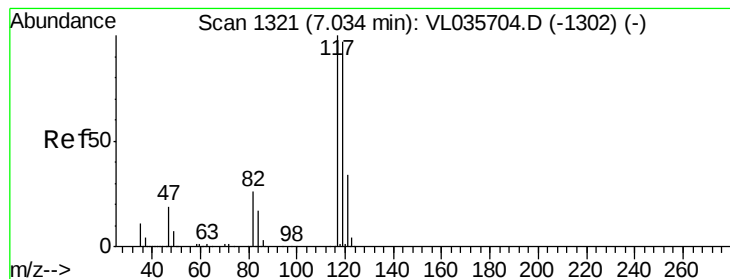
Tot Ion:114 Resp: 4775455
 Ion Ratio Lower Upper
 114 100
 63 20.6 16.1 24.1
 88 17.7 14.1 21.1



#34
 2-Butanone
 Concen: 15.908 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Tgt Ion: 43 Resp: 2311532
 Ion Ratio Lower Upper
 43 100
 72 33.4 26.1 39.1





#35

Carbon Tetrachloride

Concen: 15.243 ppbv

RT: 7.03 min Scan# 1320

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

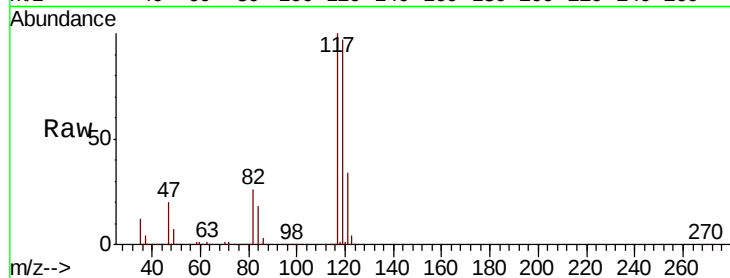
Tot Ion:117 Resp: 3678720

Ion Ratio Lower Upper

117 100

119 96.8 77.7 116.5

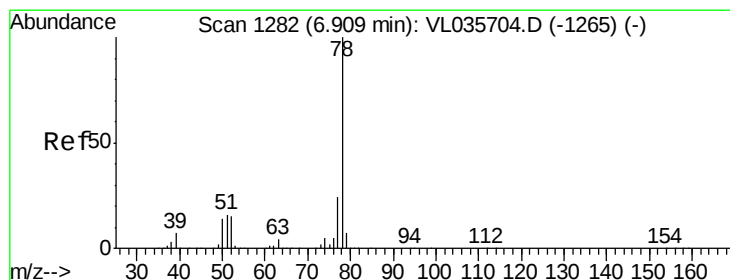
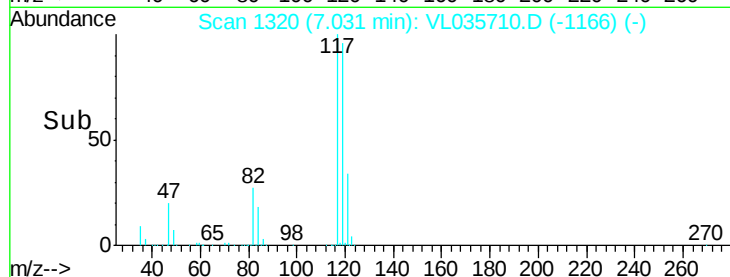
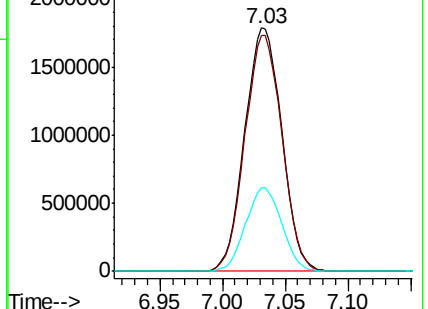
121 34.4 26.9 40.3



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: 14.603 ppbv

RT: 6.91 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

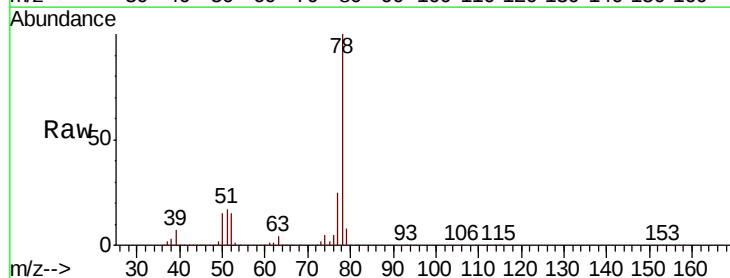
Tgt Ion: 78 Resp: 4562182

Ion Ratio Lower Upper

78 100

77 25.3 19.3 28.9

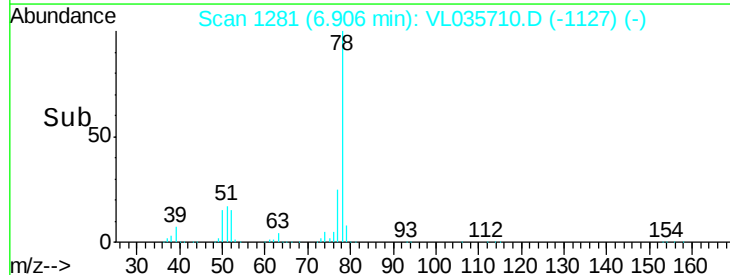
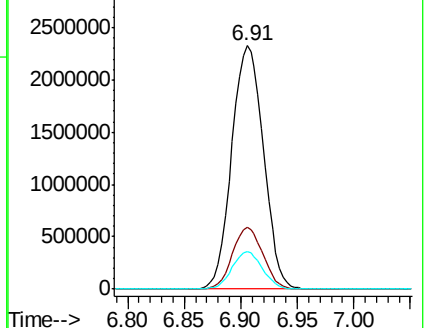
50 15.3 11.6 17.4

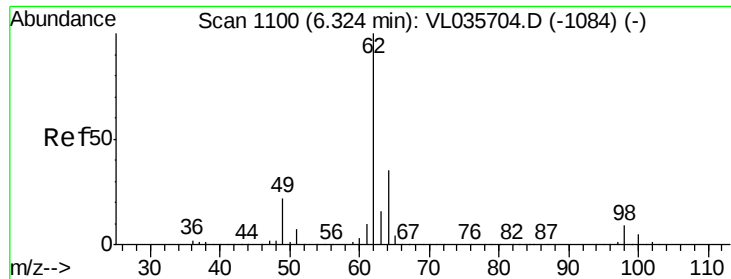


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

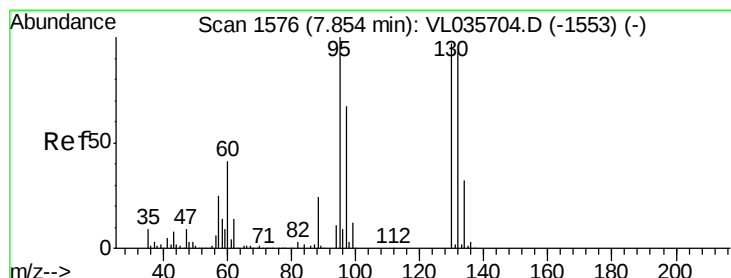
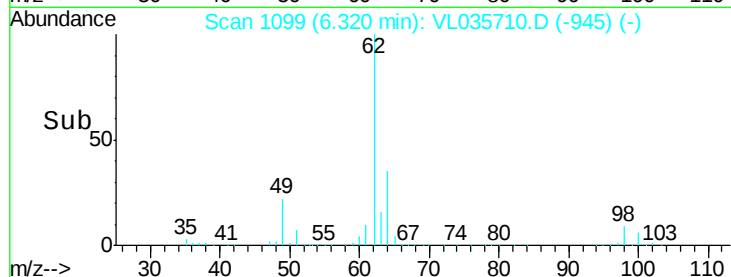
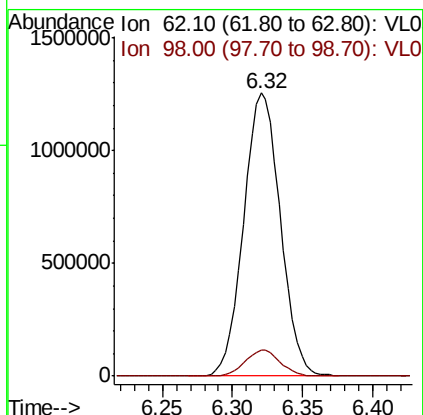
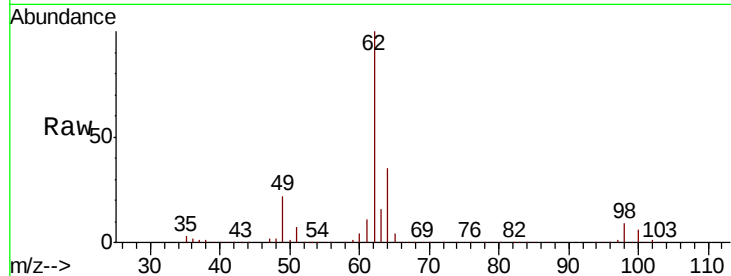




#37
 1,2-Dichloroethane
 Concen: 15.232 ppbv
 RT: 6.32 min Scan# 1099
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

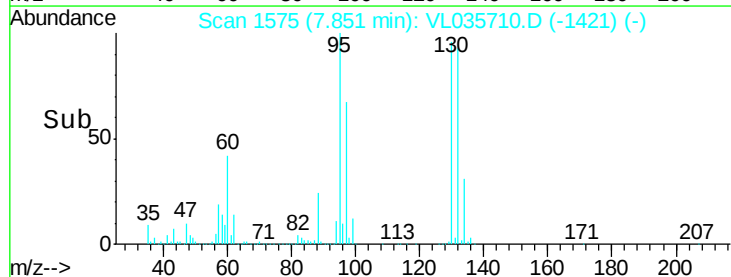
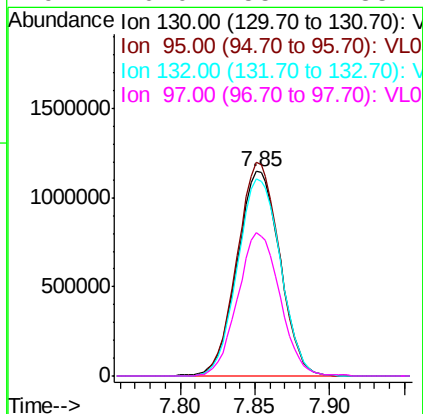
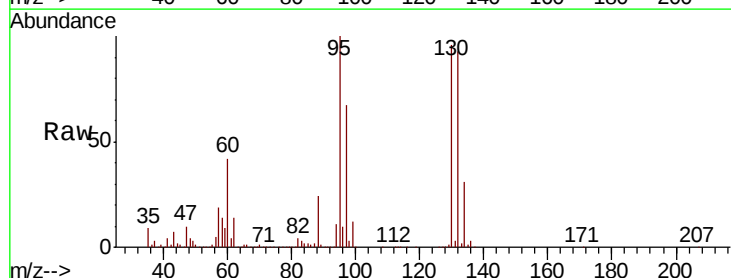
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

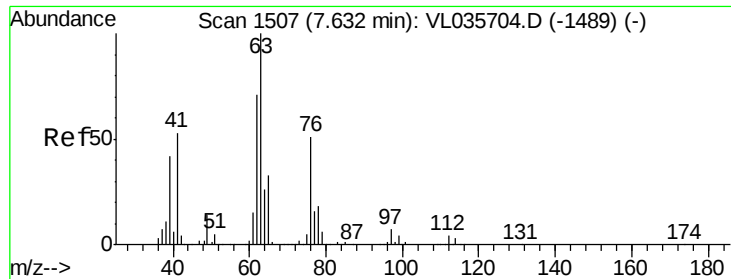
Tot Ion: 62 Resp: 2290752
 Ion Ratio Lower Upper
 62 100
 98 8.9 6.9 10.3



#38
 Trichloroethene
 Concen: 12.687 ppbv
 RT: 7.85 min Scan# 1575
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Tgt Ion:130 Resp: 2275886
 Ion Ratio Lower Upper
 130 100
 95 104.6 82.4 123.6
 132 96.8 76.8 115.2
 97 70.0 55.4 83.2



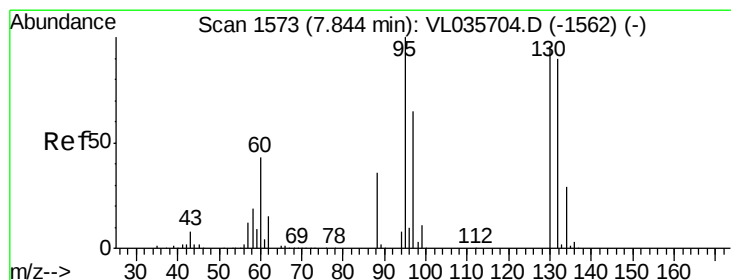
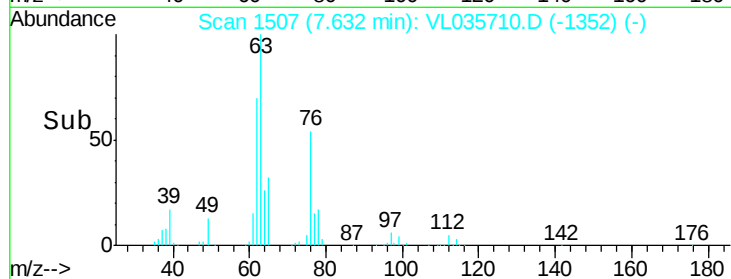
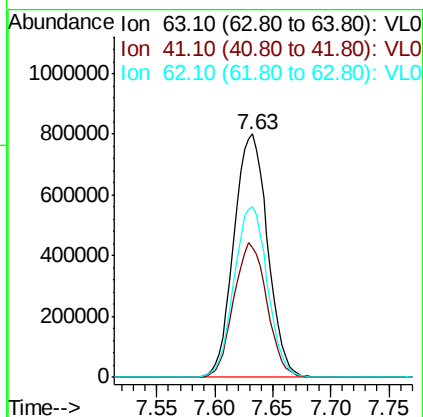
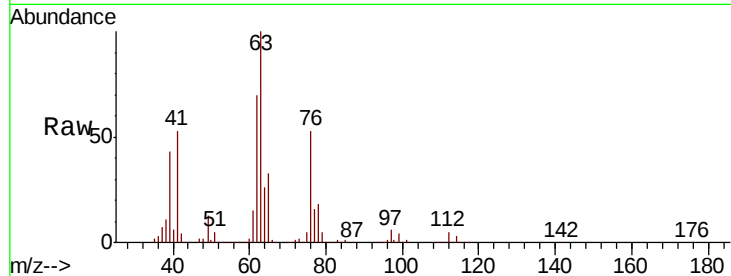


#39
 1,2-Dichloropropane
 Concen: 15.230 ppbv
 RT: 7.63 min Scan# 1507
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 63 Resp: 1618022

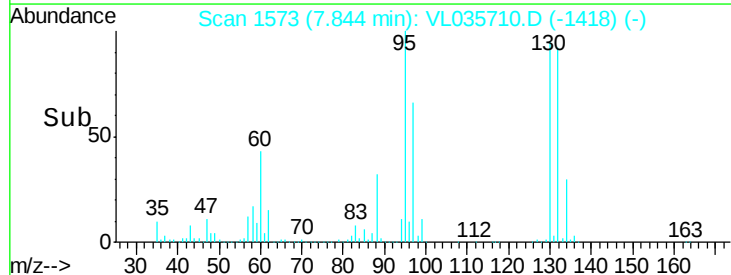
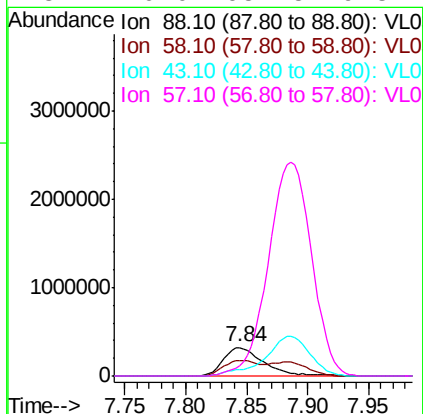
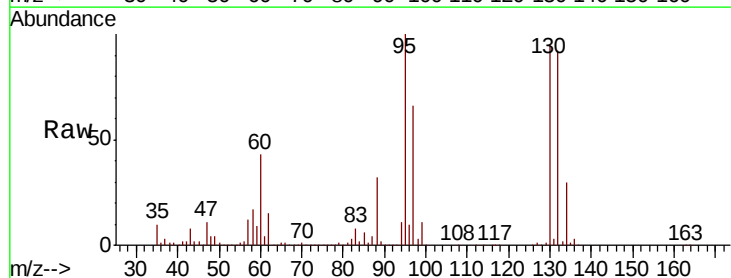
Ion	Ratio	Lower	Upper
63	100		
41	53.0	42.6	63.8
62	69.8	56.5	84.7

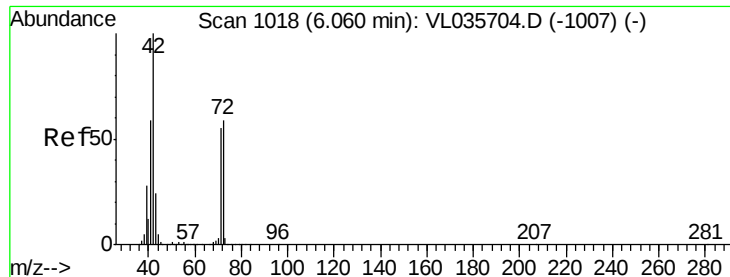


#40
 1,4-Dioxane
 Concen: 13.991 ppbv
 RT: 7.84 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Tgt Ion: 88 Resp: 724767

Ion	Ratio	Lower	Upper
88	100		
58	49.7	76.2	114.4#
43	0.0	123.4	185.2#
57	0.0	652.5	978.7#





#41

Tetrahydrofuran

Concen: 17.206 ppbv

RT: 6.06 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

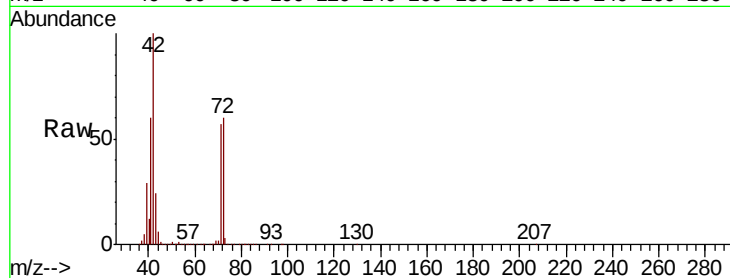
Tot Ion: 42 Resp: 1323902

Ion Ratio Lower Upper

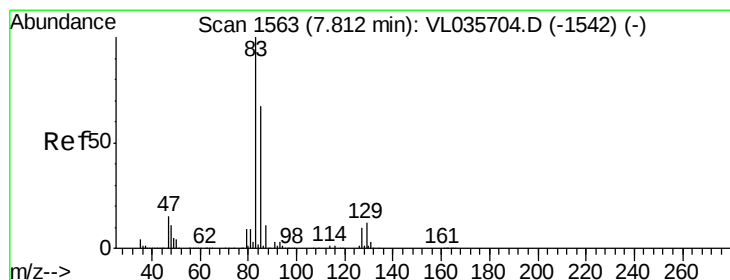
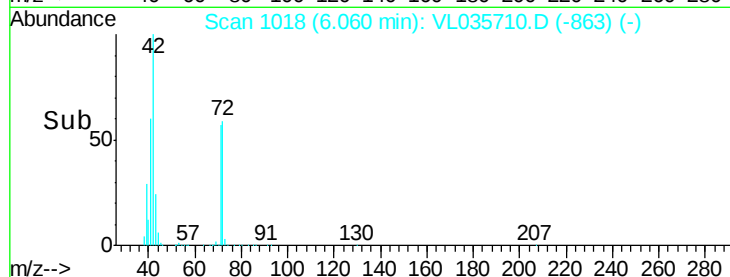
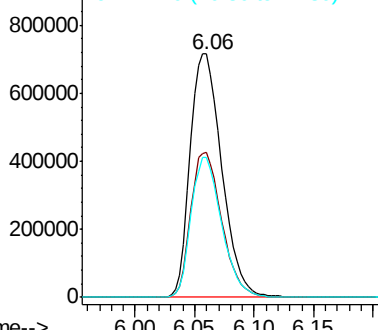
42 100

72 58.3 46.2 69.4

71 55.4 44.2 66.4



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: 15.851 ppbv

RT: 7.81 min Scan# 1562

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

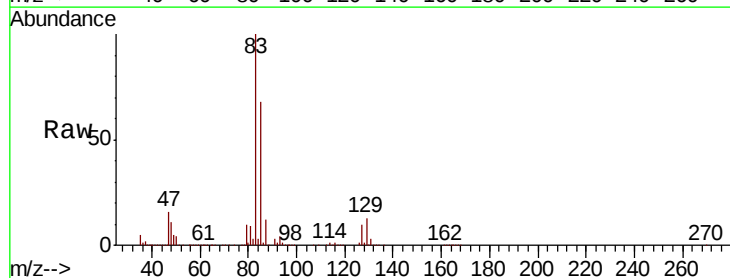
Tgt Ion: 83 Resp: 3844499

Ion Ratio Lower Upper

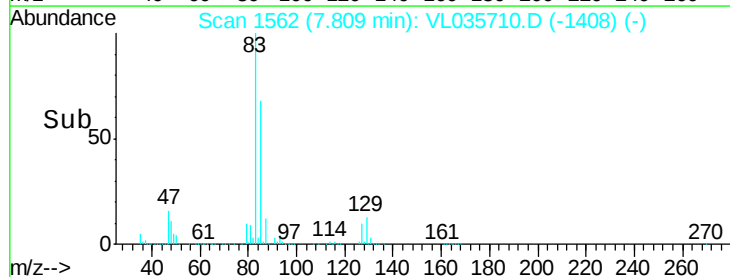
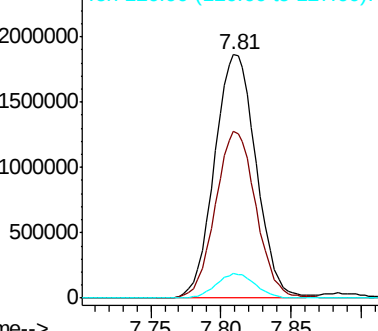
83 100

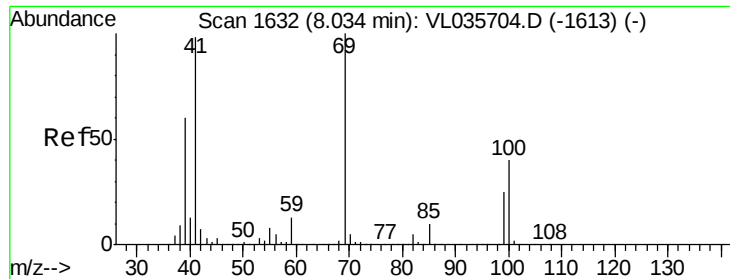
85 68.4 53.4 80.0

127 10.2 7.8 11.6



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

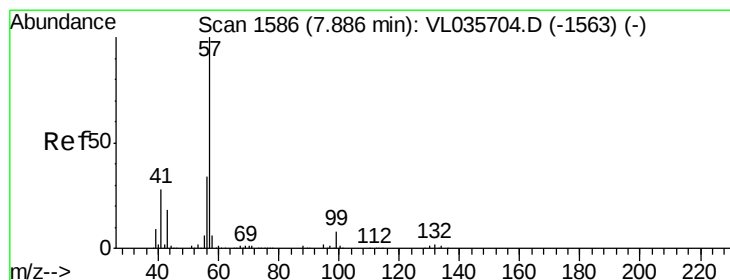
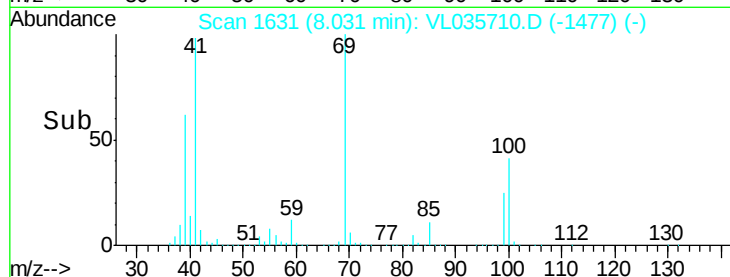
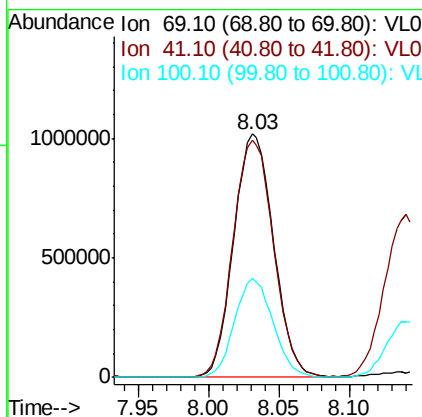
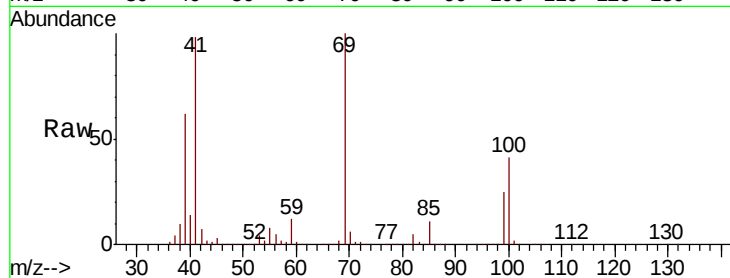




#43
Methvl Methacrylate
Concen: 16.581 ppbv
RT: 8.03 min Scan# 1631
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

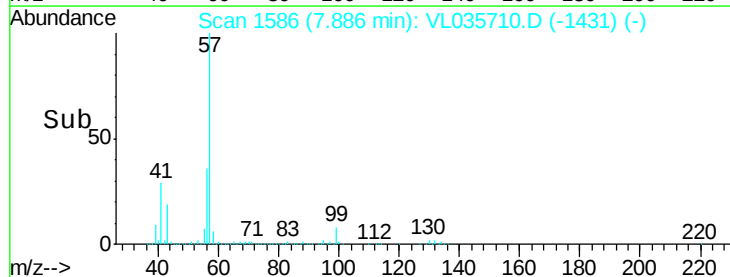
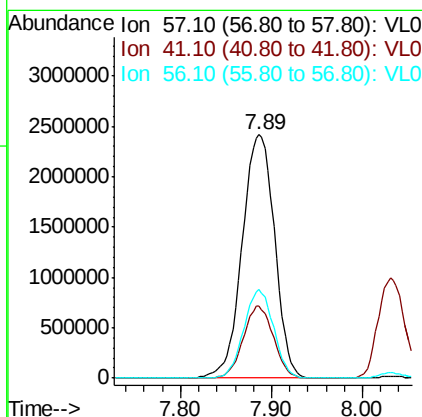
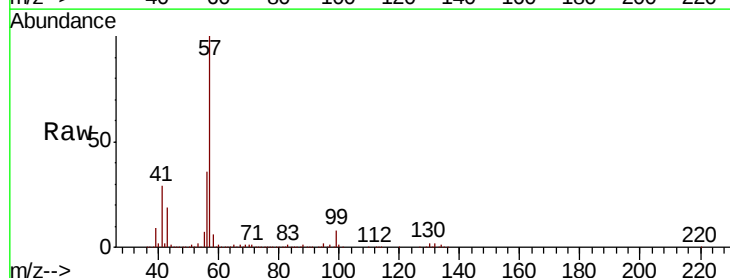
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

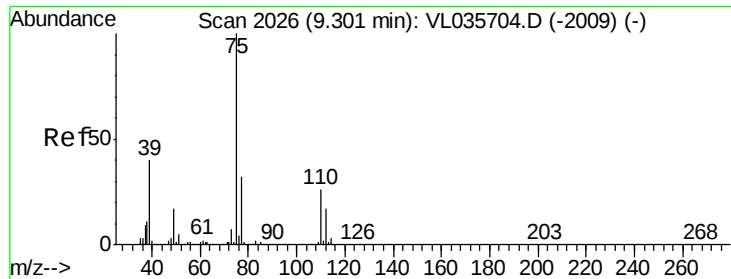
Tot Ion: 69 Resp: 2019152
Ion Ratio Lower Upper
69 100
41 99.2 79.8 119.6
100 39.3 30.6 46.0



#44
2,2,4-Trimethylpentane
Concen: 14.382 ppbv
RT: 7.89 min Scan# 1586
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Tgt Ion: 57 Resp: 5990919
Ion Ratio Lower Upper
57 100
41 27.5 21.2 31.8
56 33.3 25.8 38.8

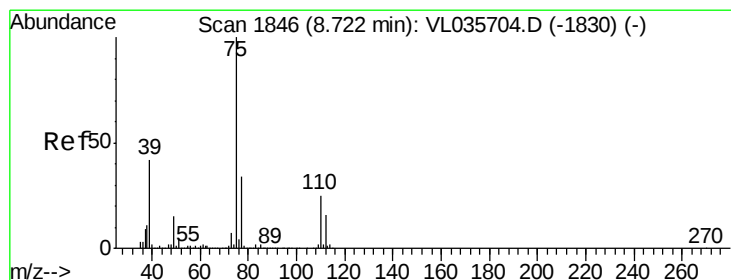
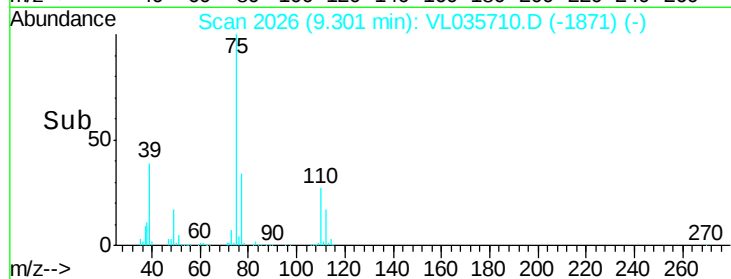
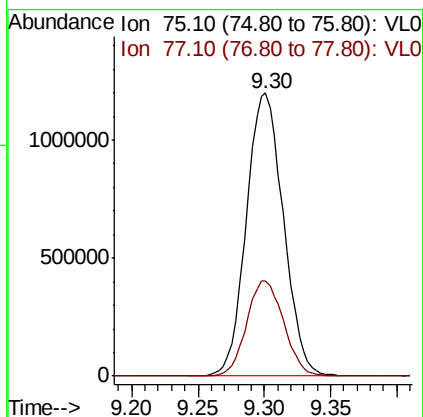
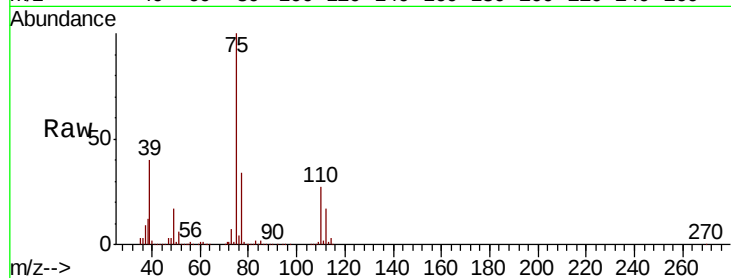




#45
 t-1,3-Dichloropropene
 Concen: 18.920 ppbv
 RT: 9.30 min Scan# 2026
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

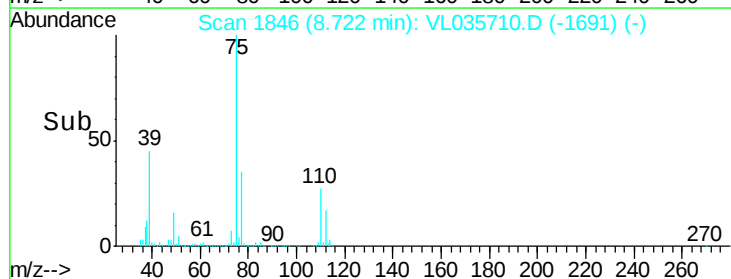
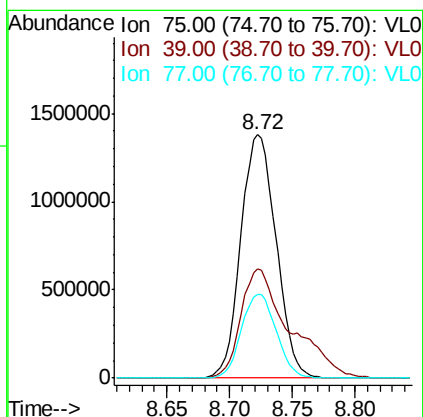
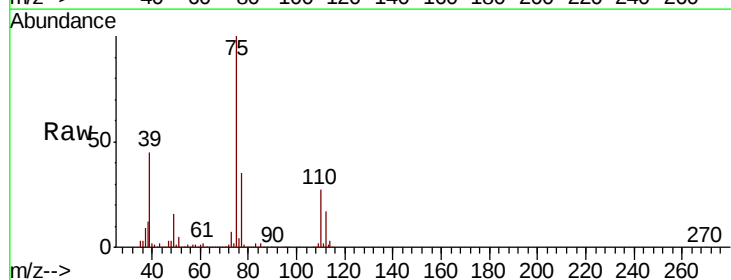
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

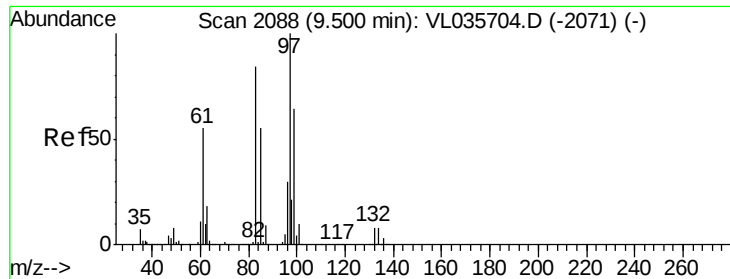
Tot Ion: 75 Resp: 2326500
 Ion Ratio Lower Upper
 75 100
 77 33.7 25.9 38.9



#46
 cis-1,3-Dichloropropene
 Concen: 17.715 ppbv
 RT: 8.72 min Scan# 1846
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Tgt Ion: 75 Resp: 2706282
 Ion Ratio Lower Upper
 75 100
 39 45.0 33.9 50.9
 77 34.6 27.4 41.0



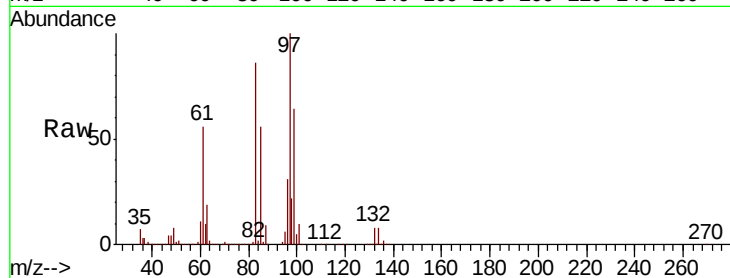


#47
 1,1,2-Trichloroethane
 Concen: 14.635 ppbv
 RT: 9.50 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

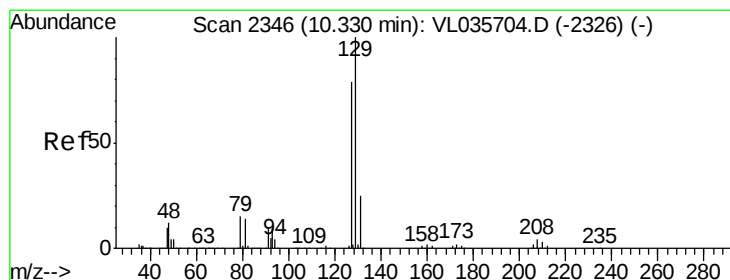
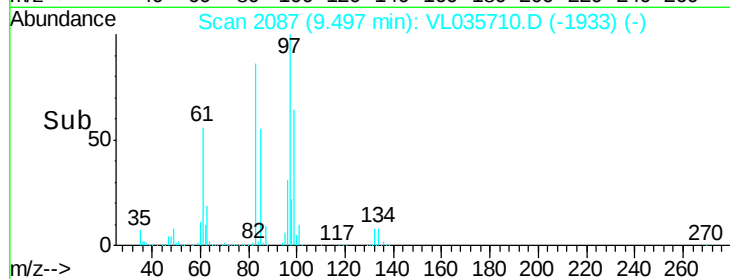
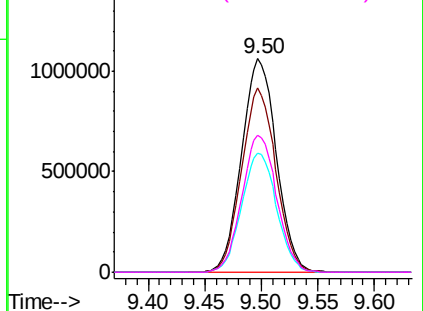
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 97 Resp: 2276575

Ion	Ratio	Lower	Upper
97	100		
83	86.3	67.1	100.7
85	55.5	43.9	65.9
99	63.9	51.3	76.9



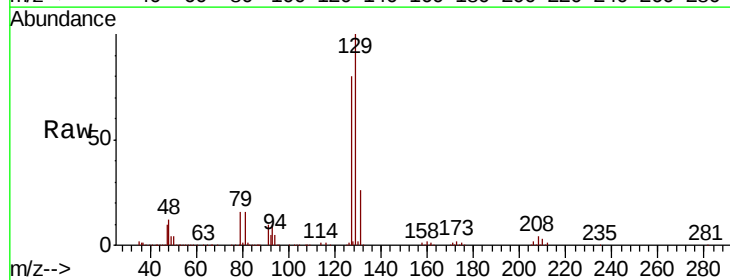
Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0



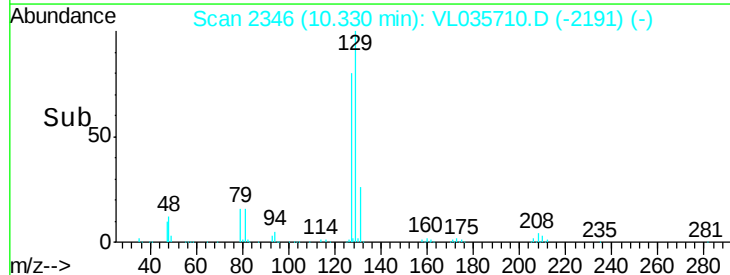
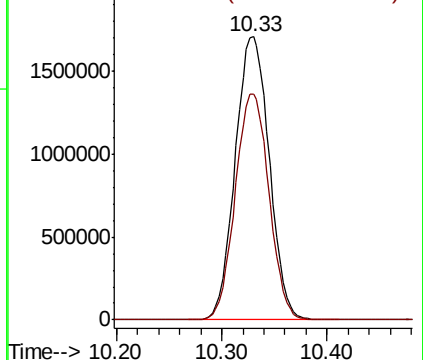
#48
 Dibromochloromethane
 Concen: 15.771 ppbv
 RT: 10.33 min Scan# 2346
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

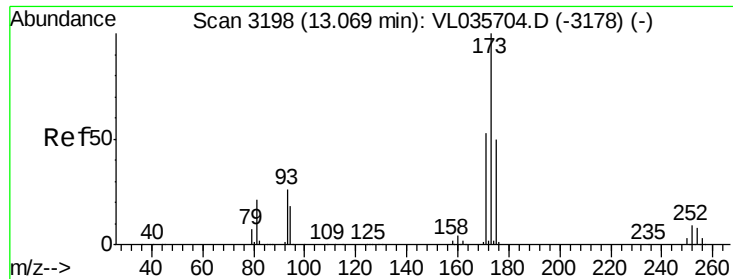
Tgt Ion: 129 Resp: 3828852

Ion	Ratio	Lower	Upper
129	100		
127	79.3	39.4	118.1



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





#49

Bromoform

Concen: 15.968 ppbv

RT: 13.07 min Scan# 3198

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

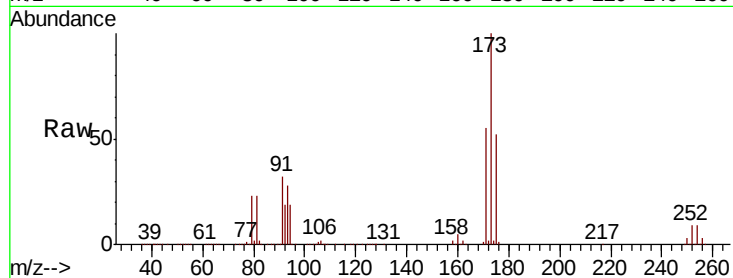
Tot Ion:173 Resp: 3452748

Ion Ratio Lower Upper

173 100

175 50.5 39.8 59.6

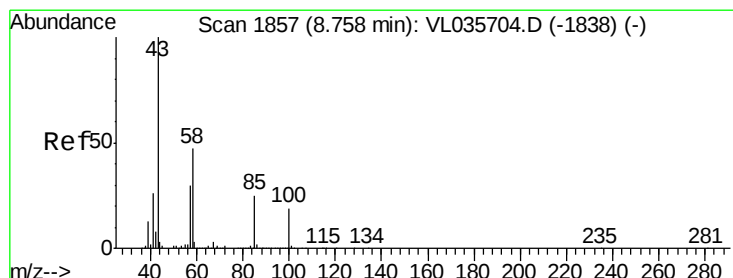
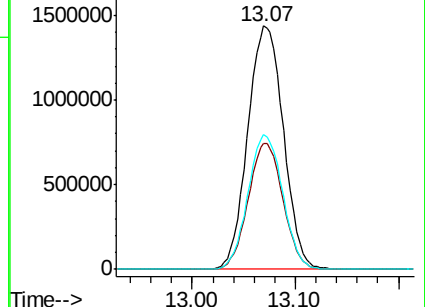
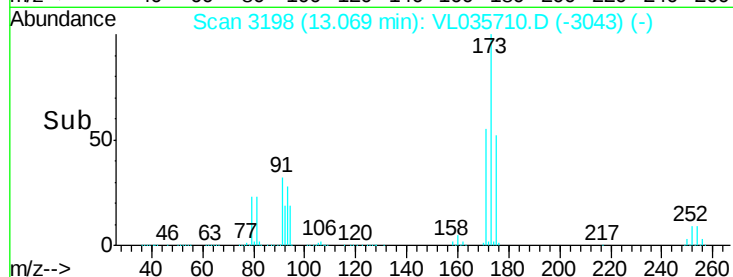
171 54.1 42.8 64.2



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: 16.173 ppbv

RT: 8.76 min Scan# 1858

Delta R.T. 0.00 min

Lab File: VL035710.D

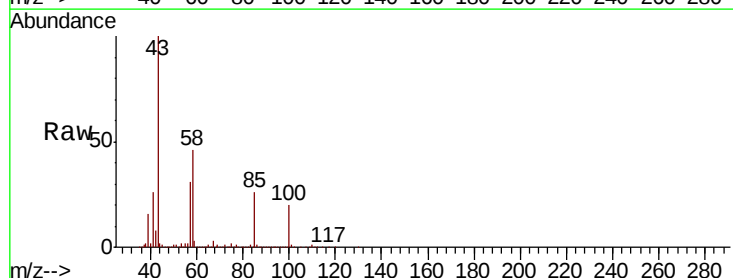
Acq: 23 Sep 2020 7:11

Tgt Ion: 43 Resp: 3414290

Ion Ratio Lower Upper

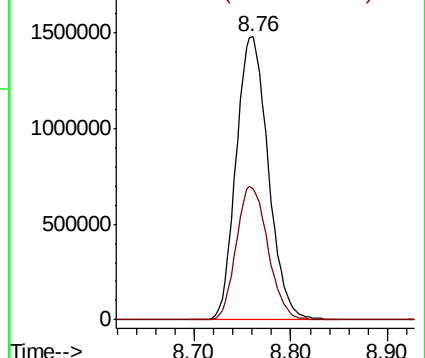
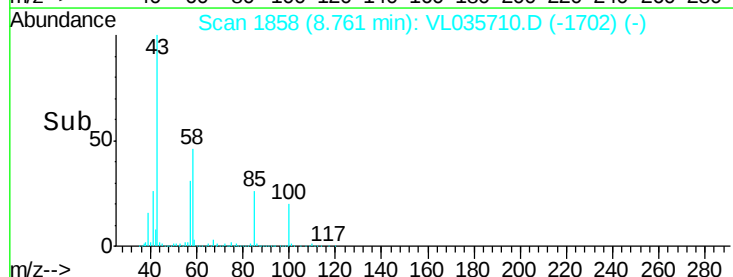
43 100

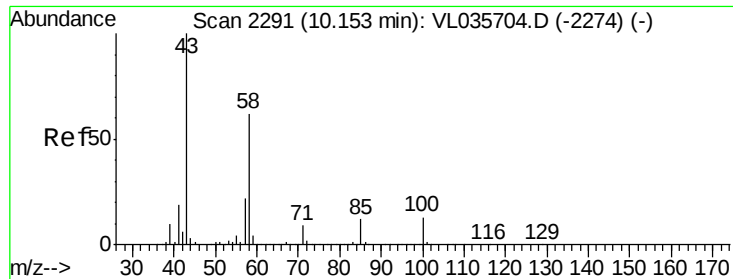
58 46.6 36.6 54.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

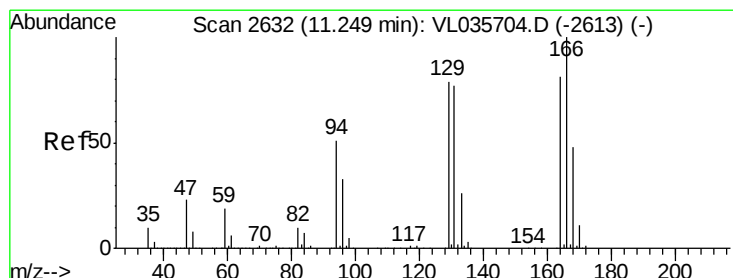
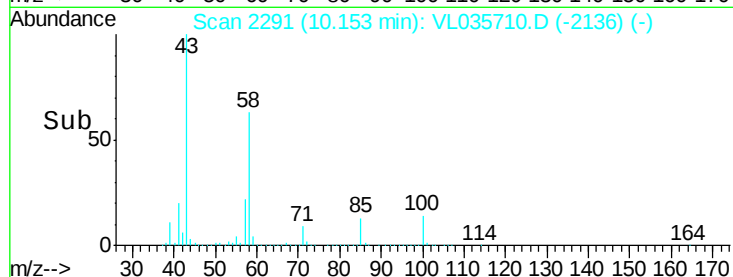
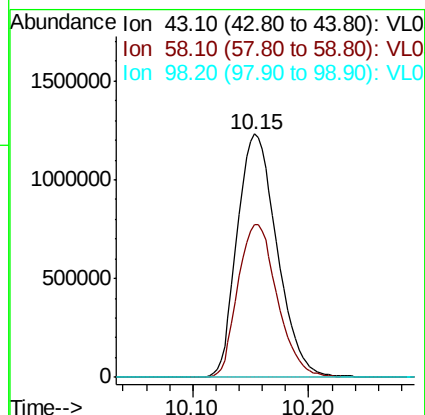
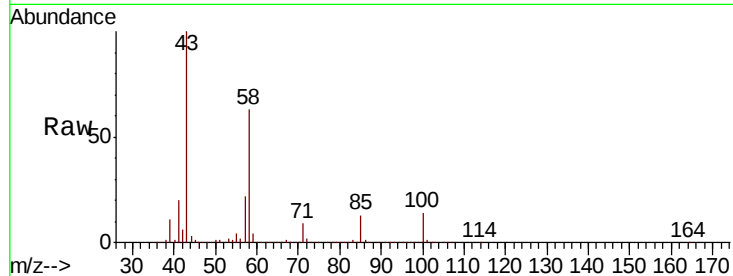




#51
2-Hexanone
Concen: 17.092 ppbv
RT: 10.15 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

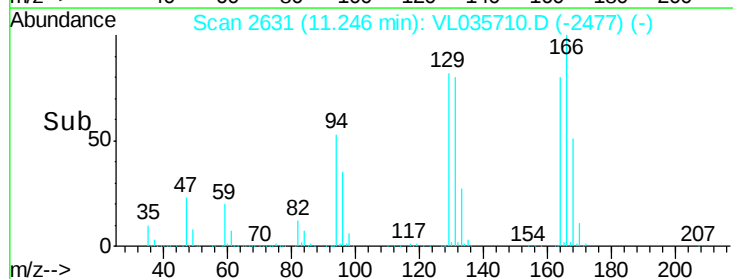
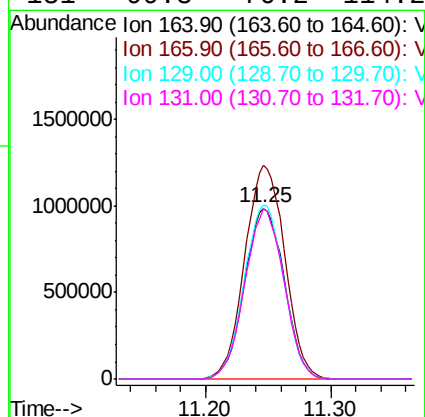
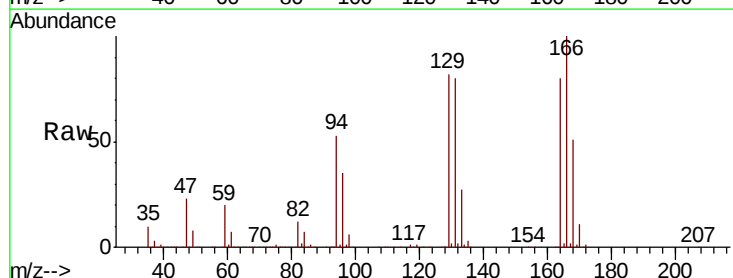
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

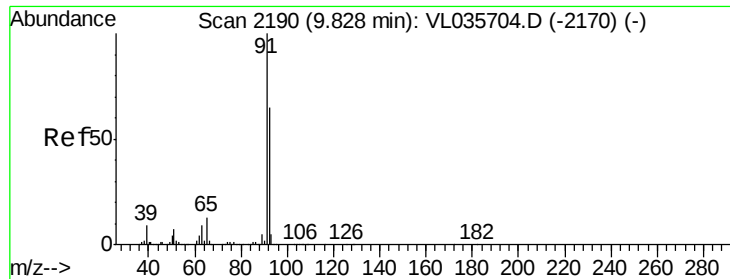
Tot Ion: 43 Resp: 2951725
Ion Ratio Lower Upper
43 100
58 62.1 48.7 73.1
98 0.6 0.7 1.1#



#52
Tetrachloroethene
Concen: 12.245 ppbv
RT: 11.25 min Scan# 2631
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Tgt Ion: 164 Resp: 2178165
Ion Ratio Lower Upper
164 100
166 125.2 98.7 148.1
129 102.4 78.4 117.6
131 99.8 76.2 114.2





#53

Toluene

Concen: 14.412 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

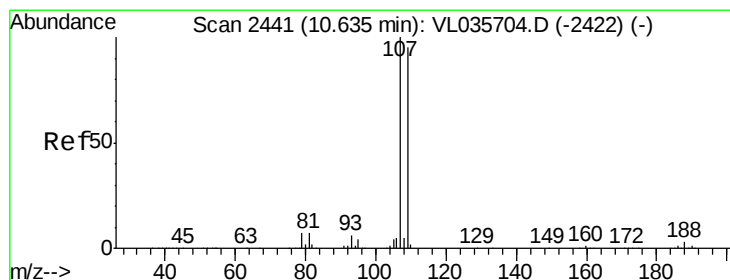
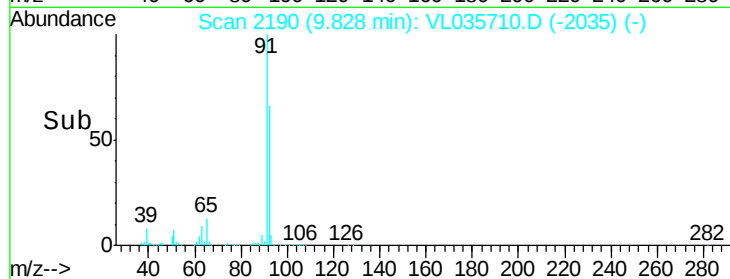
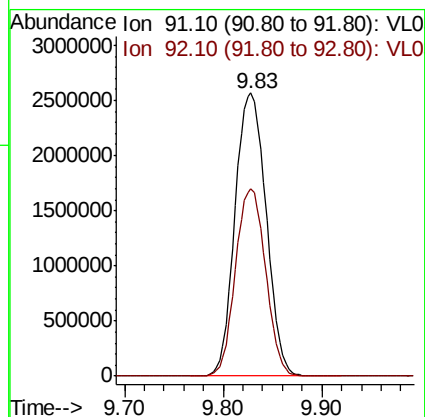
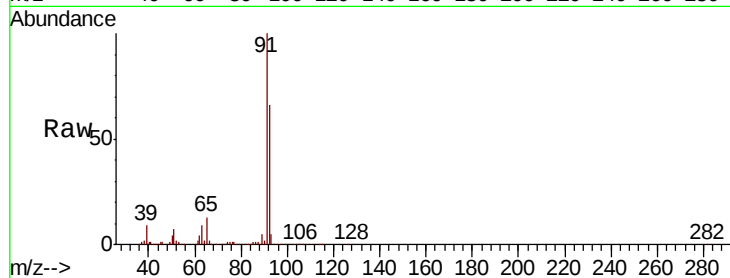
VSTDIC015

Tot Ion: 91 Resp: 5642523

Ion Ratio Lower Upper

91 100

92 64.2 50.0 75.0



#54

1,2-Dibromoethane

Concen: 14.593 ppbv

RT: 10.64 min Scan# 2441

Delta R.T. -0.00 min

Lab File: VL035710.D

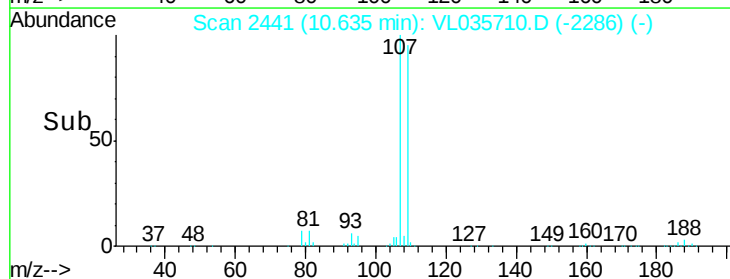
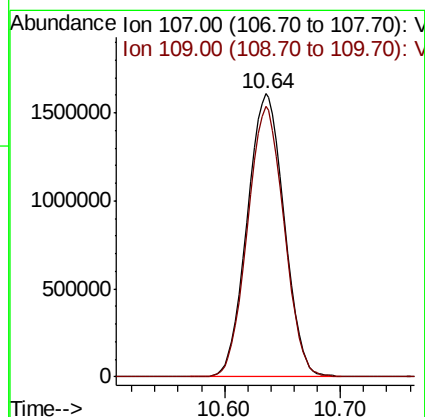
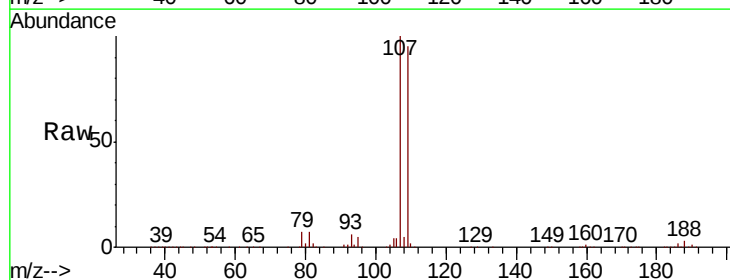
Acq: 23 Sep 2020 7:11

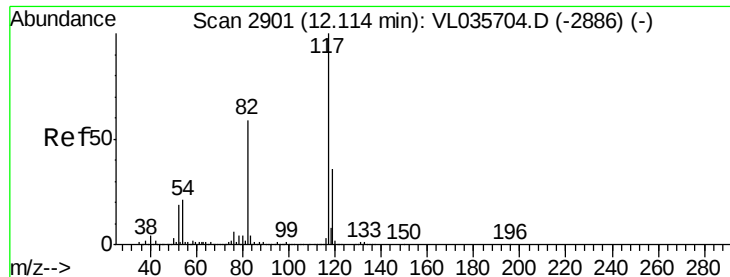
Tgt Ion: 107 Resp: 3572808

Ion Ratio Lower Upper

107 100

109 95.5 76.0 114.0

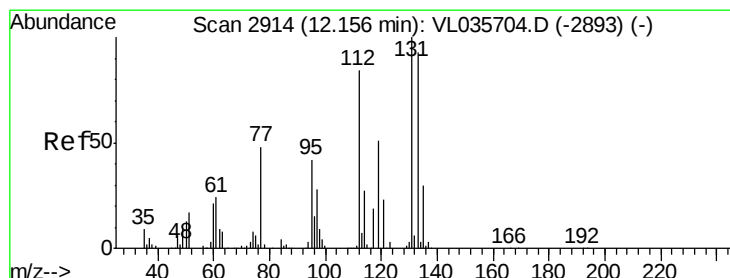
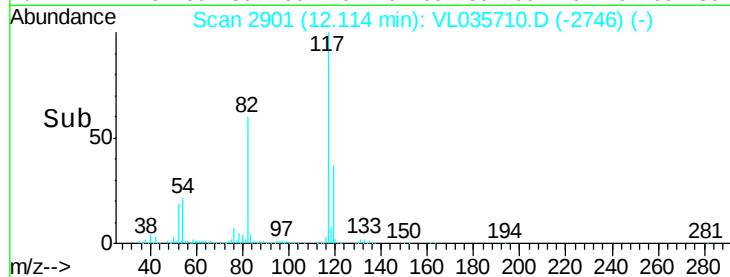
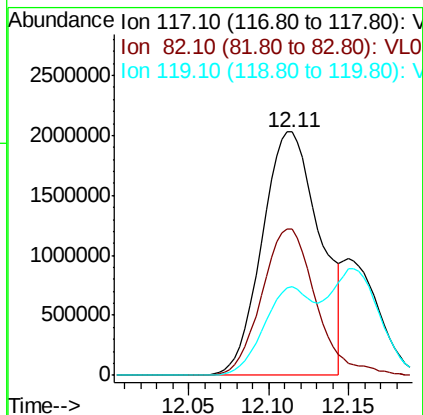
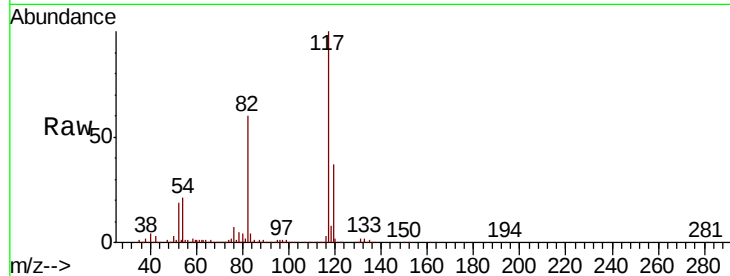




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

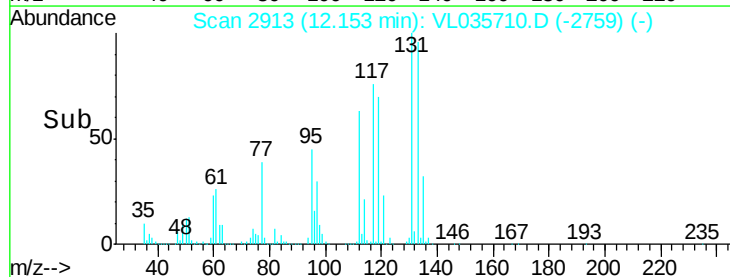
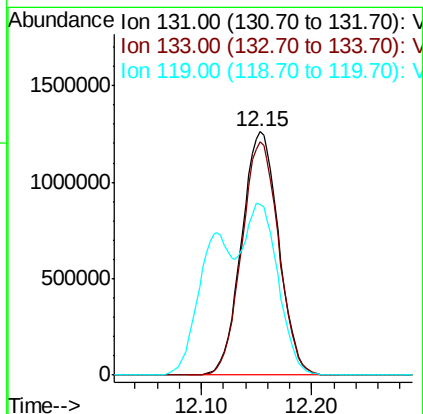
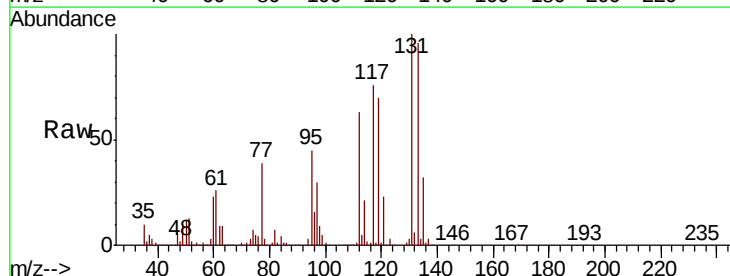
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

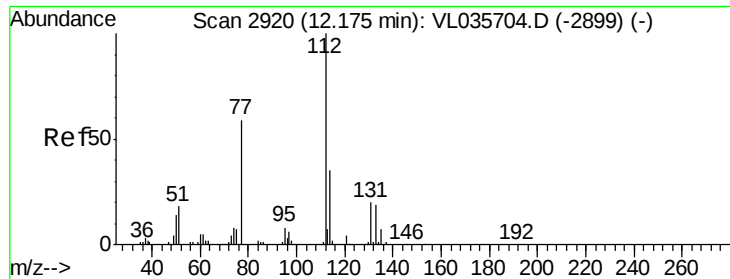
Tot Ion:117 Resp: 5077833
Ion Ratio Lower Upper
117 100
82 56.9 46.1 69.1
119 33.4 28.0 42.0



#56
1,1,1,2-Tetrachloroethane
Concen: 14.041 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Tgt Ion:131 Resp: 2928771
Ion Ratio Lower Upper
131 100
133 95.7 76.2 114.4
119 71.7 52.4 78.6

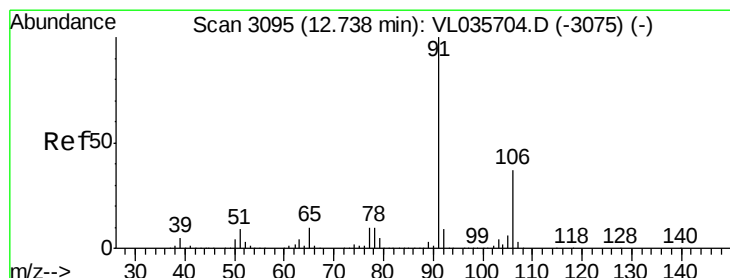
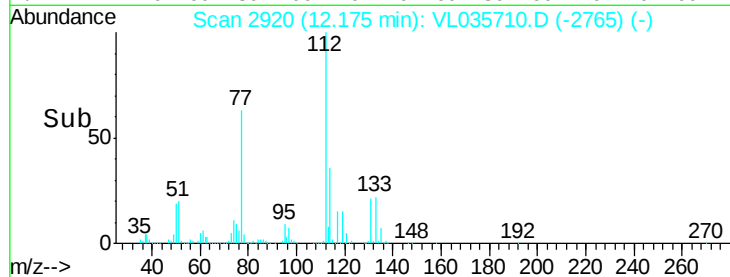
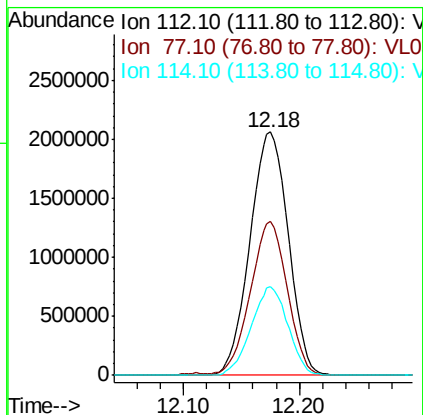
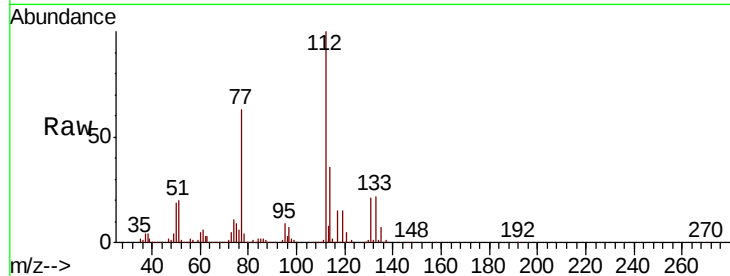




#57
Chlorobenzene
Concen: 12.553 ppbv
RT: 12.18 min Scan# 2920
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

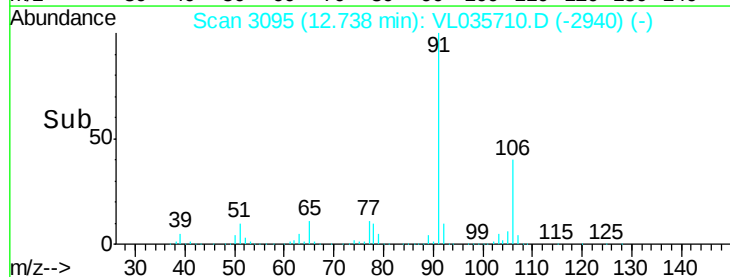
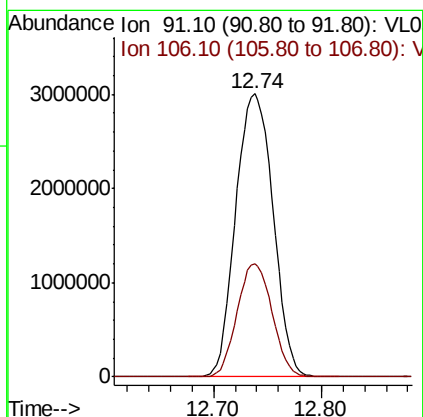
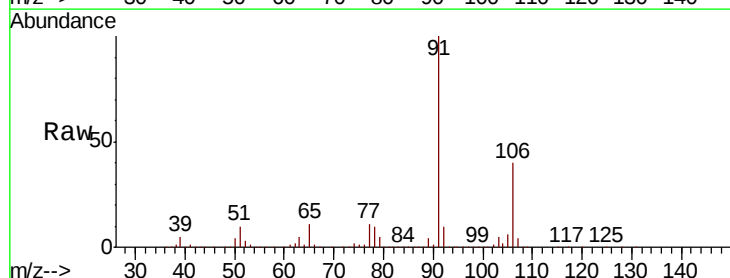
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

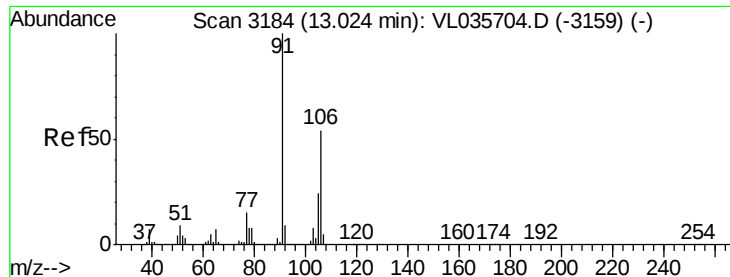
Tot Ion:112 Resp: 4754528
Ion Ratio Lower Upper
112 100
77 62.8 48.2 72.2
114 36.4 31.9 39.1



#58
Ethyl Benzene
Concen: 13.611 ppbv
RT: 12.74 min Scan# 3095
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Tgt Ion: 91 Resp: 7258195
Ion Ratio Lower Upper
91 100
106 40.1 29.7 44.5





#59

m/p-Xylene

Concen: 14.318 ppbv

RT: 13.03 min Scan# 3185

Delta R.T. 0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

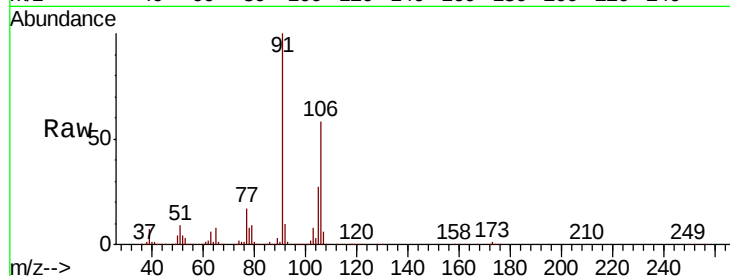
VSTDIC015

Tot Ion: 91 Resp: 6421629

Ion Ratio Lower Upper

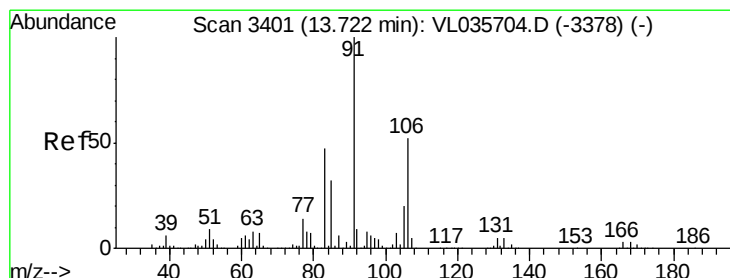
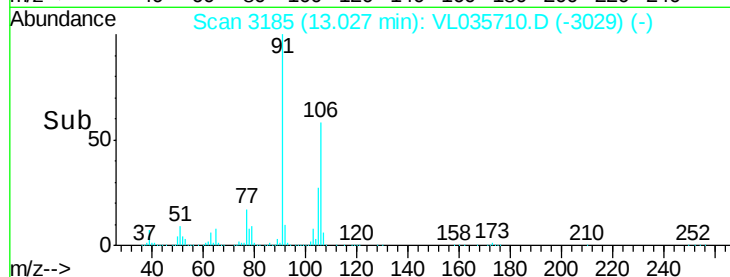
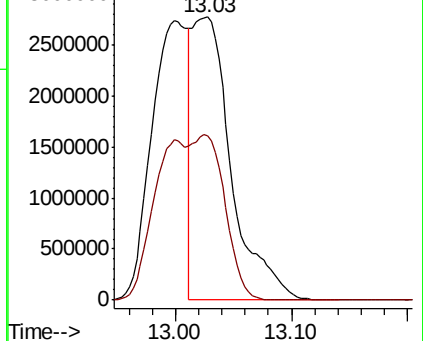
91 100

106 100.6 41.4 62.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 13.629 ppbv

RT: 13.72 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VL035710.D

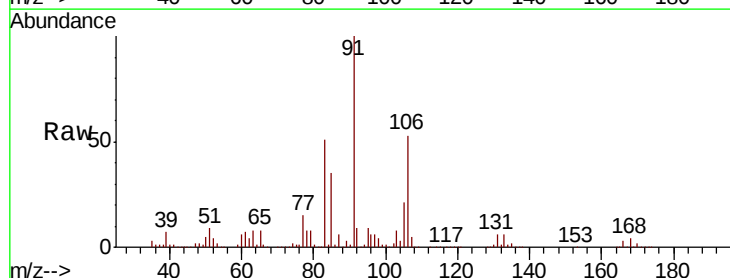
Acq: 23 Sep 2020 7:11

Tgt Ion: 91 Resp: 6147242

Ion Ratio Lower Upper

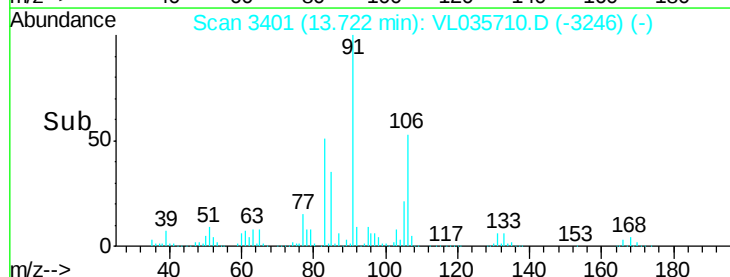
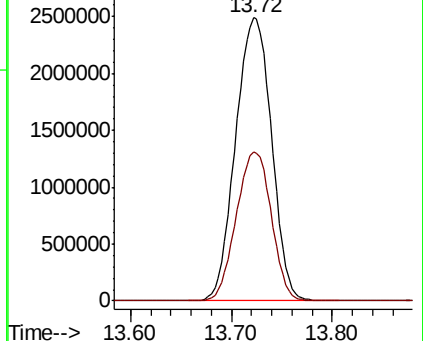
91 100

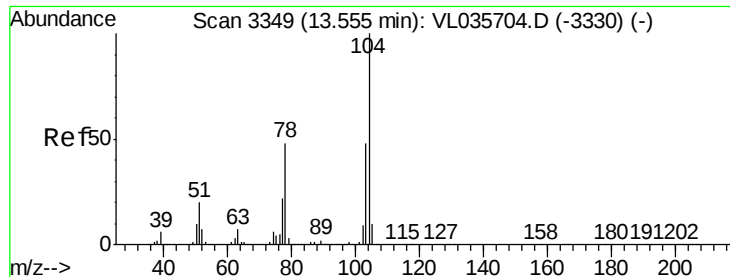
106 51.4 25.0 75.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 14.671 ppbv

RT: 13.56 min Scan# 3350

Delta R.T. 0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

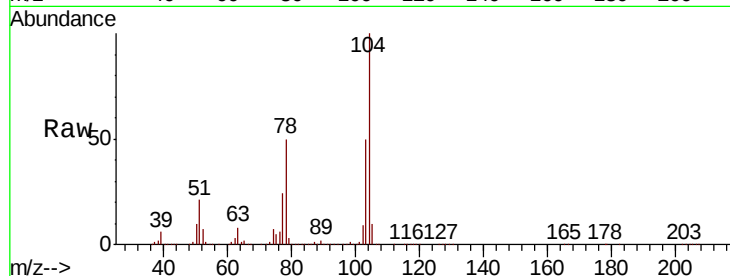
Tot Ion:104 Resp: 4997168

Ion Ratio Lower Upper

104 100

78 47.9 37.2 55.8

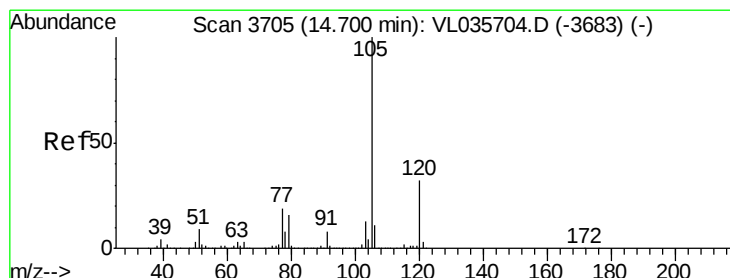
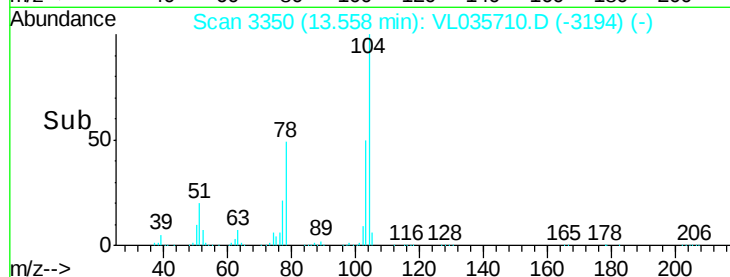
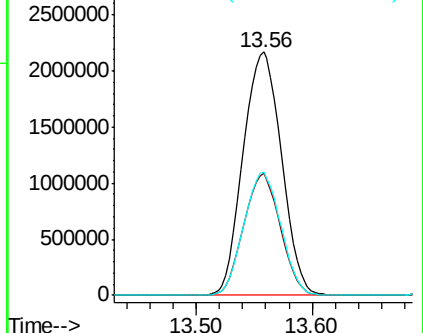
103 48.9 38.2 57.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 12.308 ppbv

RT: 14.70 min Scan# 3705

Delta R.T. -0.00 min

Lab File: VL035710.D

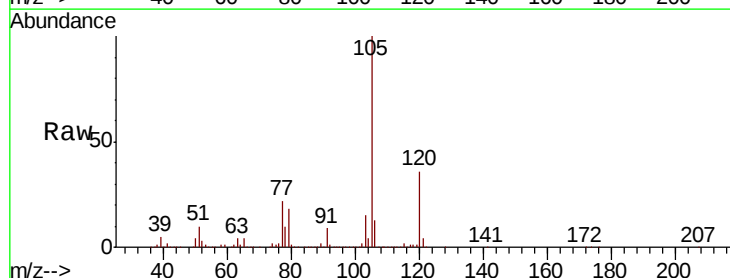
Acq: 23 Sep 2020 7:11

Tgt Ion:105 Resp: 8840584

Ion Ratio Lower Upper

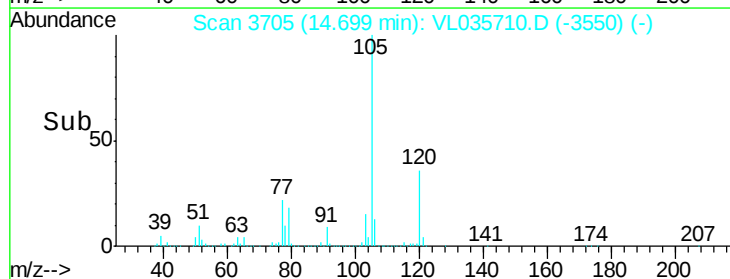
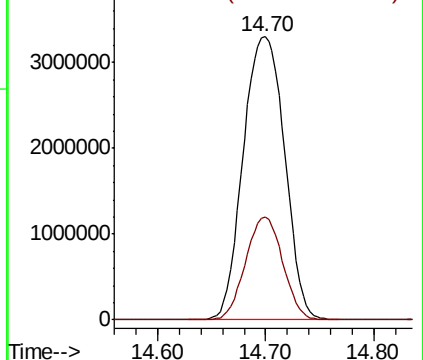
105 100

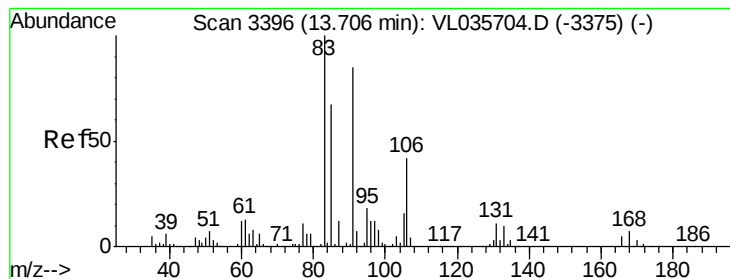
120 32.5 24.1 36.1



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: 13.008 ppbv

RT: 13.71 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

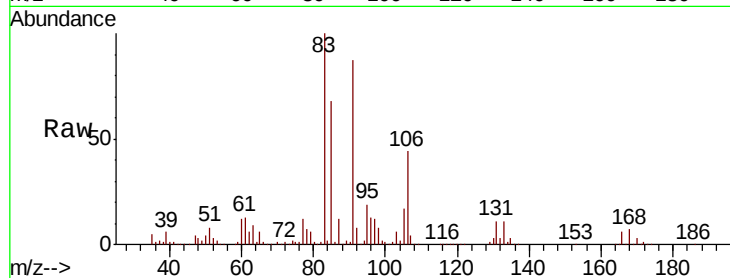
Tot Ion: 83 Resp: 4540881

Ion Ratio Lower Upper

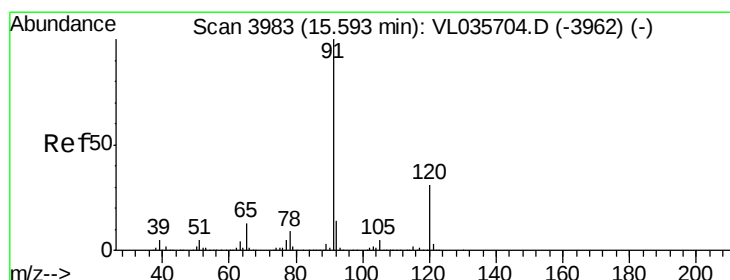
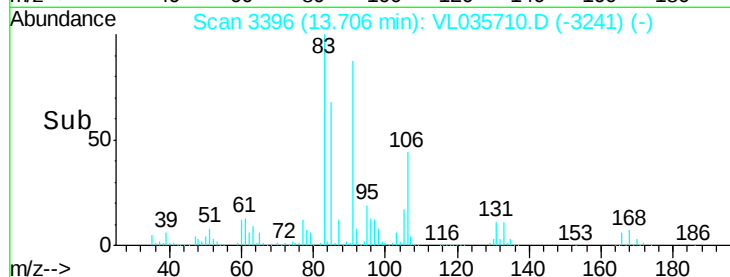
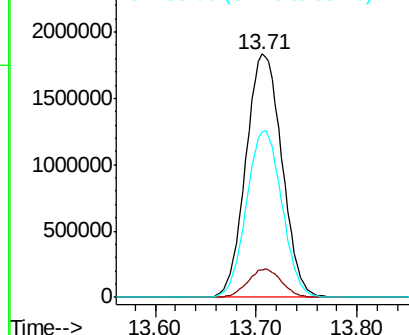
83 100

131 11.0 5.3 16.1

85 67.7 33.4 100.2



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: 13.706 ppbv

RT: 15.59 min Scan# 3983

Delta R.T. -0.00 min

Lab File: VL035710.D

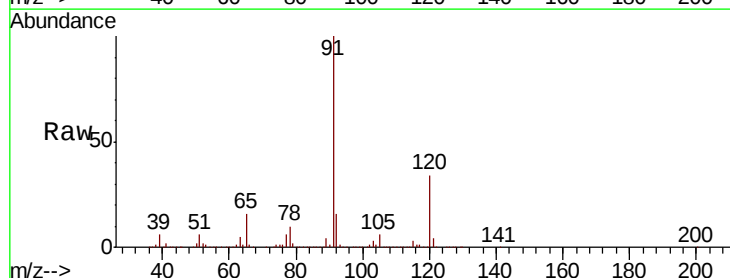
Acq: 23 Sep 2020 7:11

Tgt Ion:120 Resp: 2980879

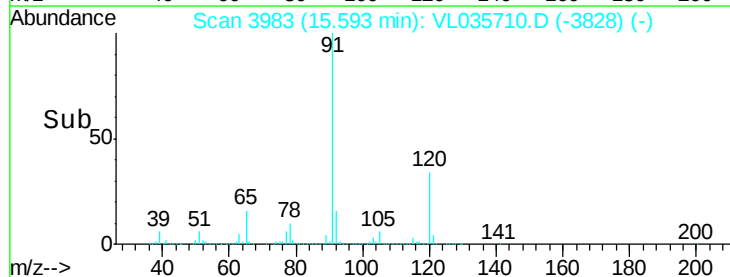
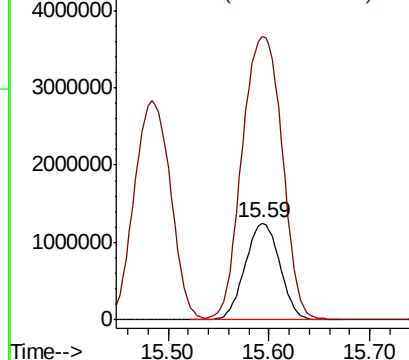
Ion Ratio Lower Upper

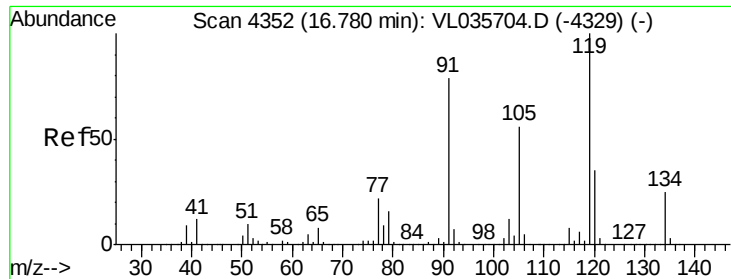
120 100

91 339.6 300.4 450.6



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0

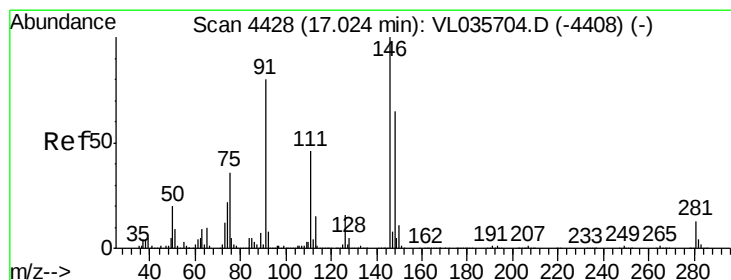
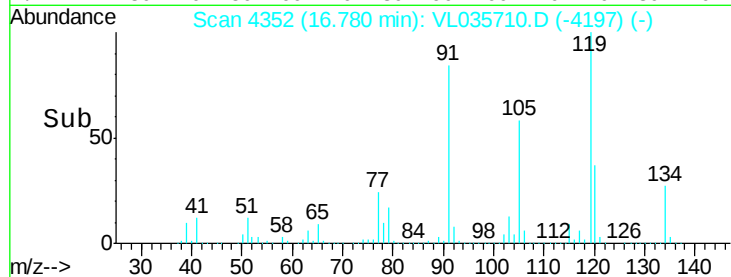
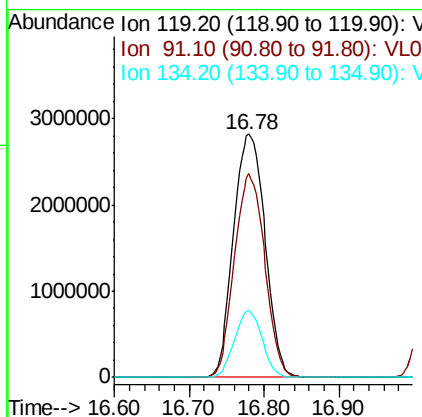
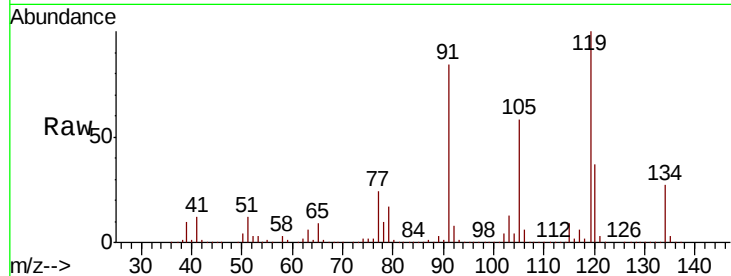




#65
 tert-Butylbenzene
 Concen: 12.466 ppbv
 RT: 16.78 min Scan# 4352
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

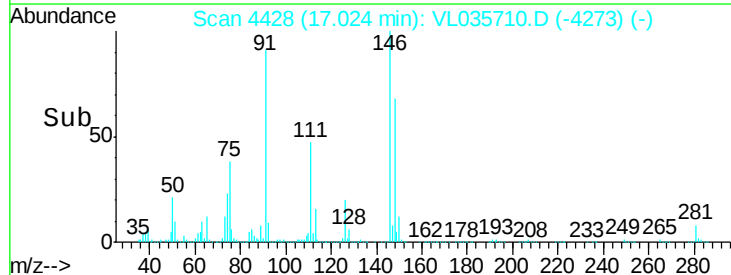
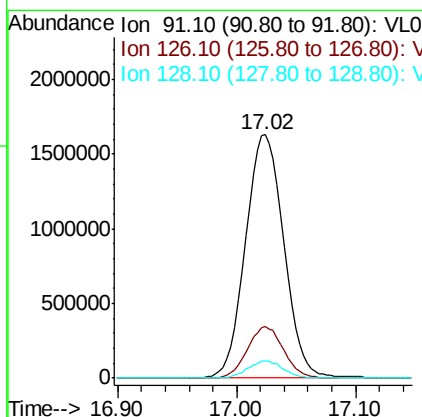
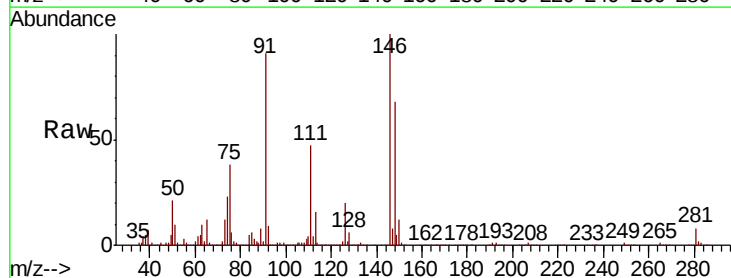
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

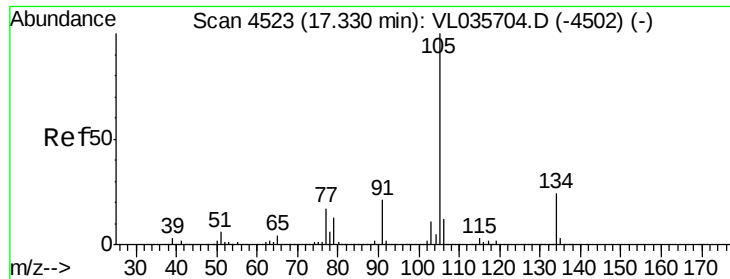
Tot Ion:119 Resp: 8287798
 Ion Ratio Lower Upper
 119 100
 91 80.5 62.4 93.6
 134 23.9 18.2 27.2



#66
 Benzyl Chloride
 Concen: 21.285 ppbv
 RT: 17.02 min Scan# 4428
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Tgt Ion: 91 Resp: 3632821
 Ion Ratio Lower Upper
 91 100
 126 20.1 15.3 22.9
 128 6.6 5.0 7.4





#67

sec-Butylbenzene

Concen: 11.950 ppbv

RT: 17.33 min Scan# 4523

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

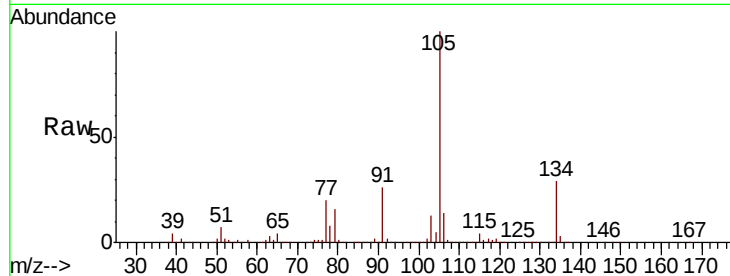
VSTDIC015

Tot Ion:105 Resp:10647079

Ion Ratio Lower Upper

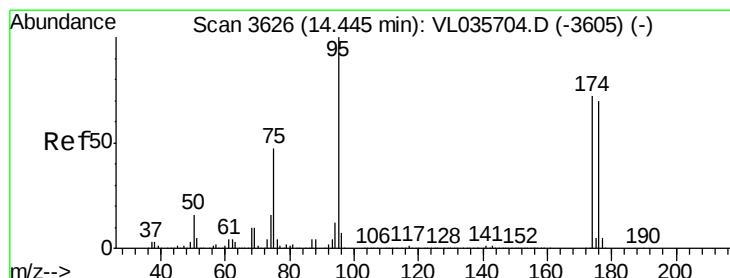
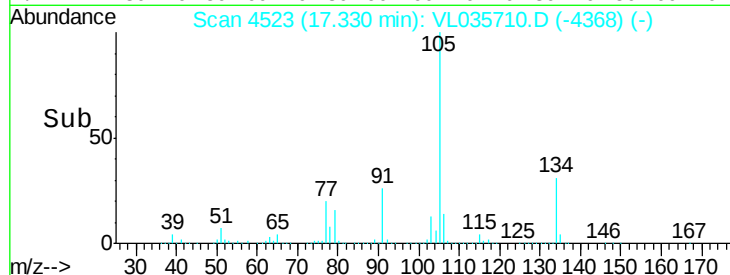
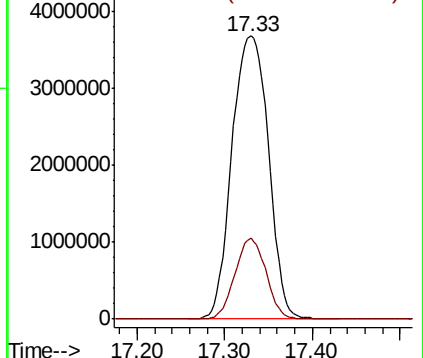
105 100

134 24.3 17.6 26.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.078 ppbv

RT: 14.45 min Scan# 3626

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

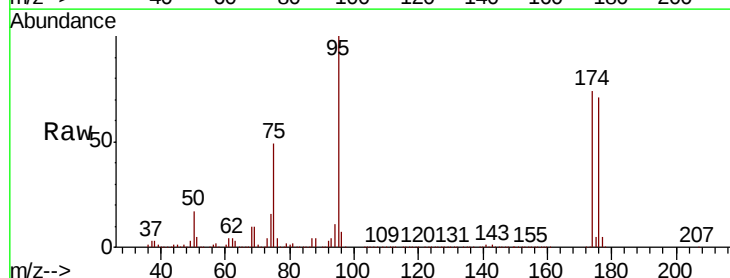
Tgt Ion: 95 Resp: 3676910

Ion Ratio Lower Upper

95 100

174 74.4 59.6 89.4

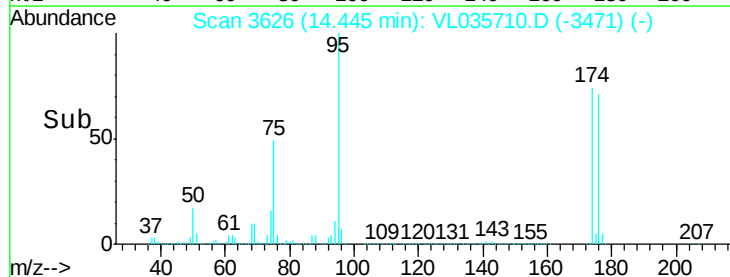
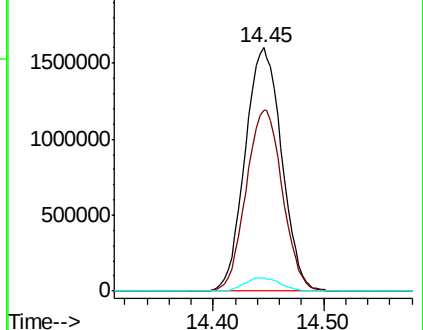
175 5.4 4.2 6.4

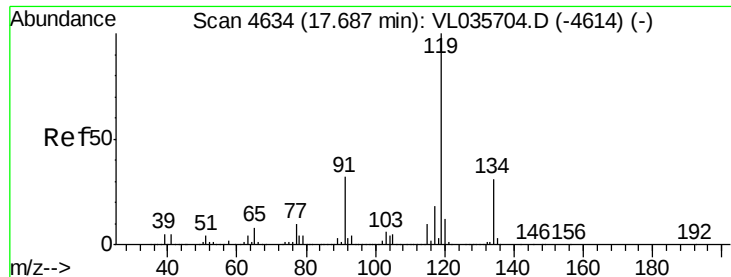


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

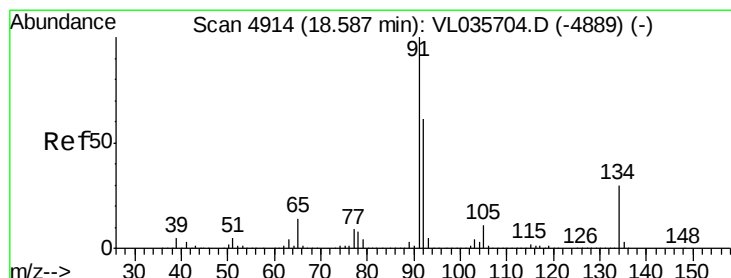
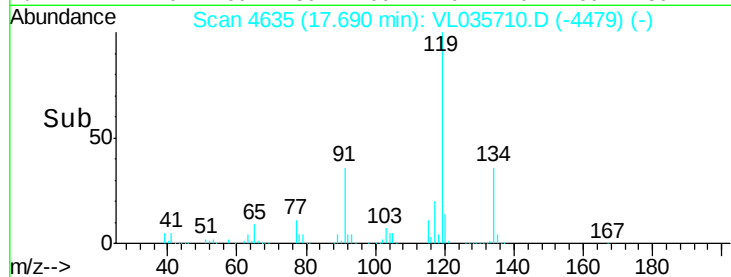
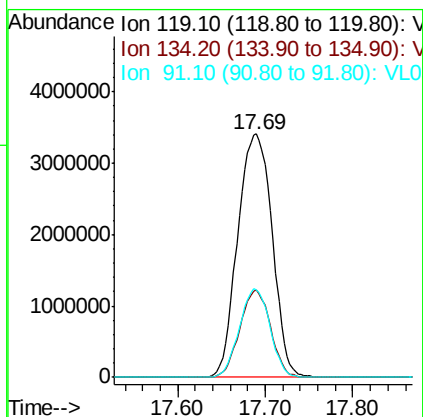
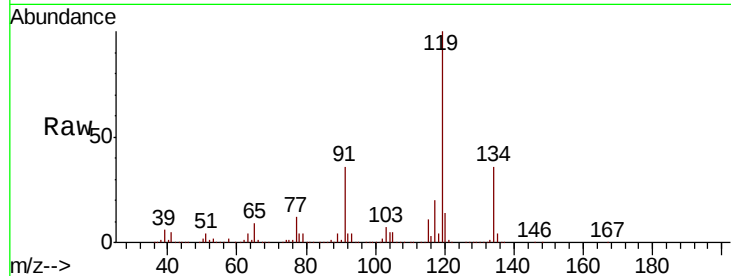




#69
p-Isopropyltoluene
Concen: 12.025 ppbv
RT: 17.69 min Scan# 4635
Delta R.T. 0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

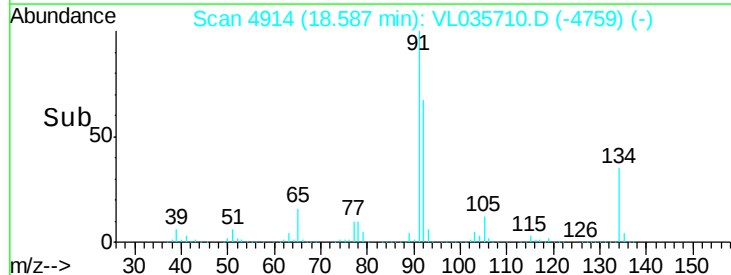
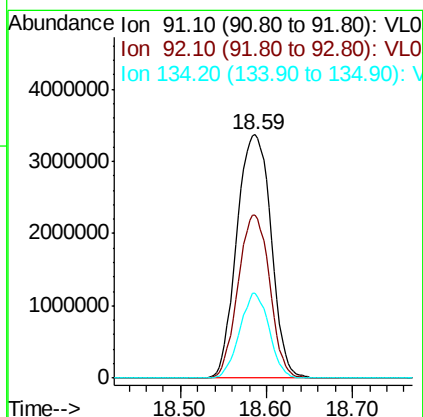
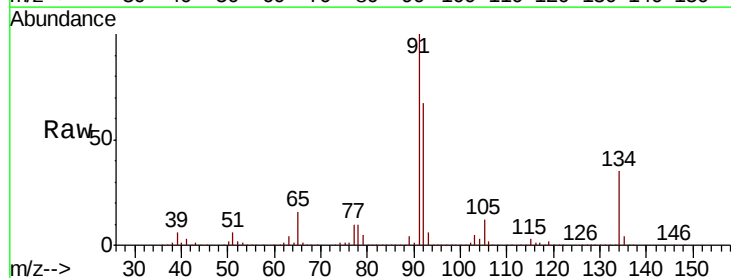
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

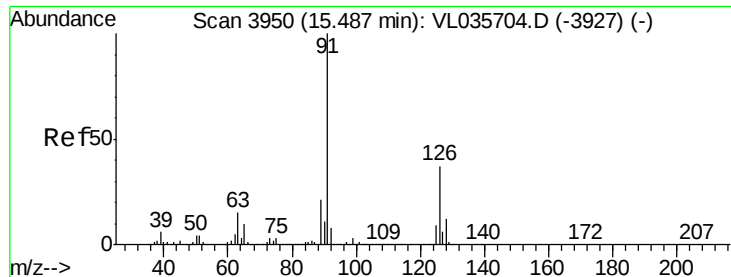
Tot Ion:119 Resp: 9313448
Ion Ratio Lower Upper
119 100
134 32.1 23.9 35.9
91 32.3 23.8 35.6



#70
n-Butylbenzene
Concen: 12.401 ppbv
RT: 18.59 min Scan# 4914
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Tgt Ion: 91 Resp: 9339852
Ion Ratio Lower Upper
91 100
92 62.0 47.0 70.4
134 30.1 21.9 32.9





#71

2-Chlorotoluene

Concen: 13.561 ppbv

RT: 15.48 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

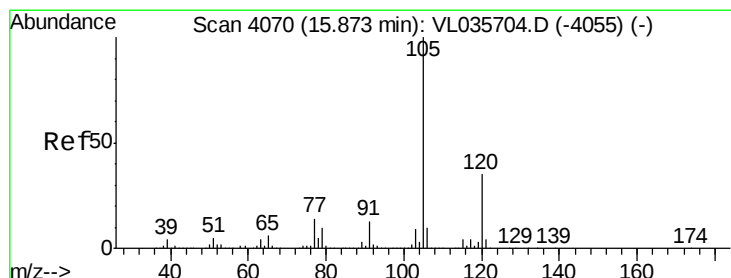
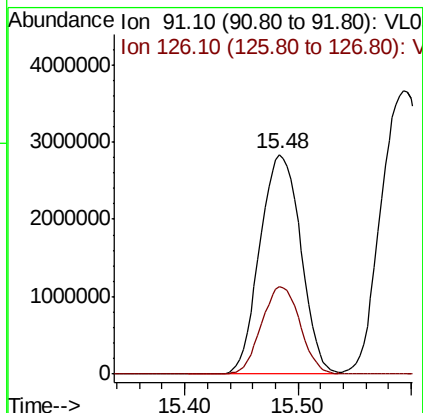
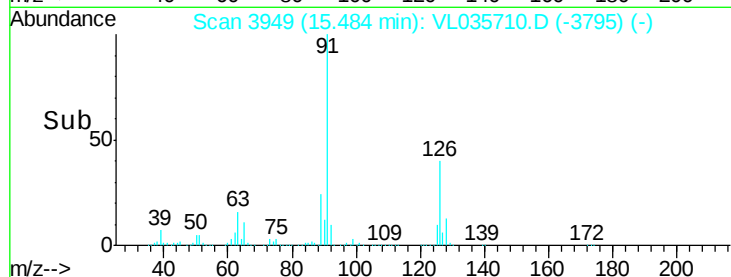
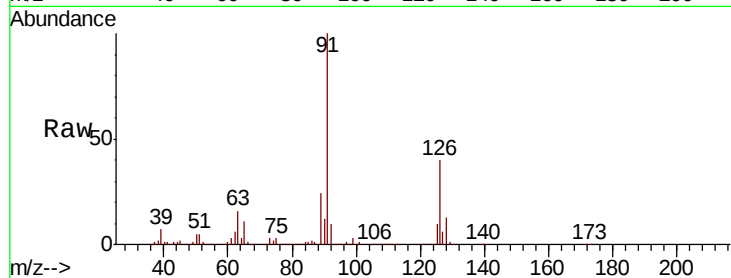
VSTDIC015

Tot Ion: 91 Resp: 7123294

Ion Ratio Lower Upper

91 100

126 37.7 14.4 57.4



#72

4-Ethyltoluene

Concen: 13.305 ppbv

RT: 15.87 min Scan# 4070

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Tgt Ion:105 Resp: 7549981

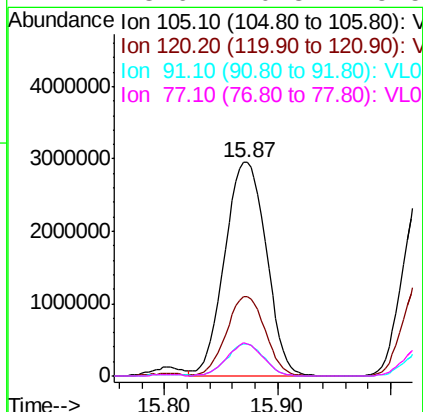
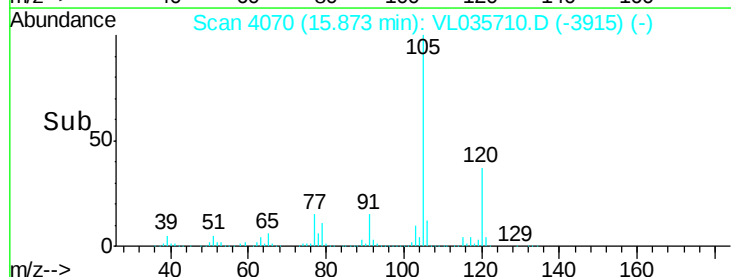
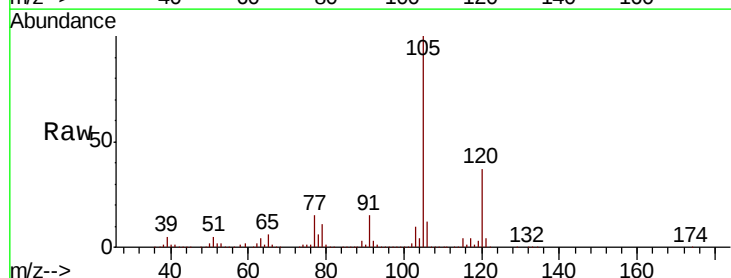
Ion Ratio Lower Upper

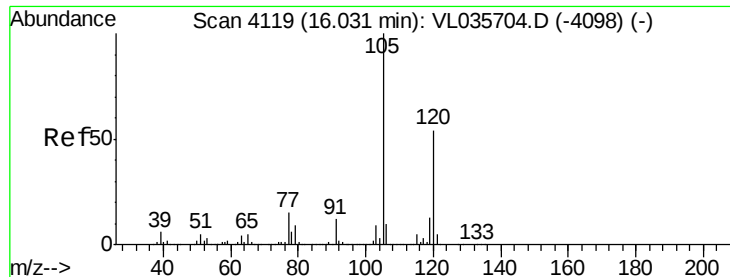
105 100

120 34.8 26.5 39.7

91 13.6 10.2 15.2

77 13.6 10.3 15.5





#73

1,3,5-Trimethylbenzene

Concen: 13.439 ppbv

RT: 16.03 min Scan# 4119

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

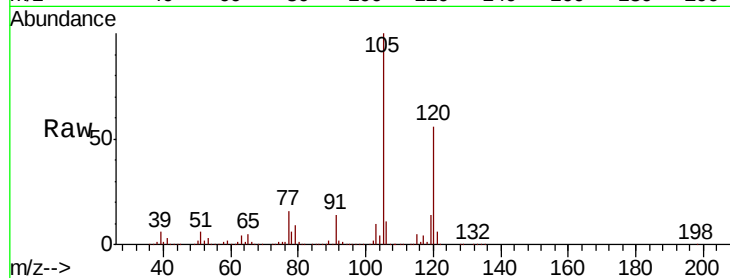
VSTDIC015

Tot Ion:105 Resp: 7060708

Ion Ratio Lower Upper

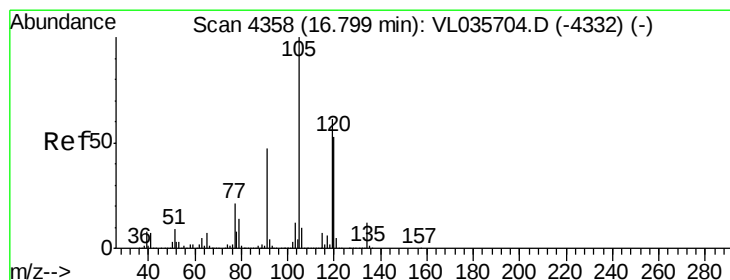
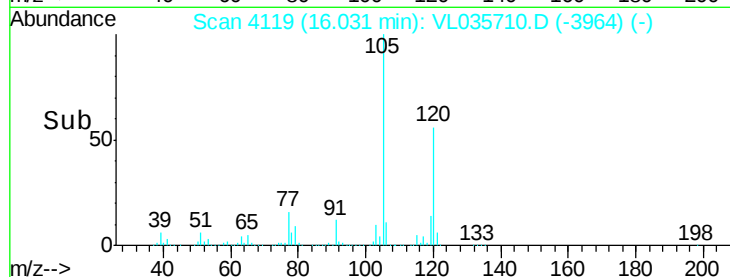
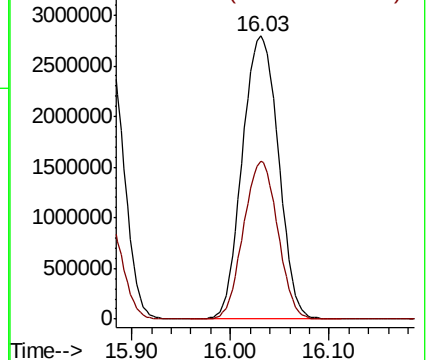
105 100

120 55.8 43.0 64.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 12.457 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Tgt Ion:105 Resp: 7194721

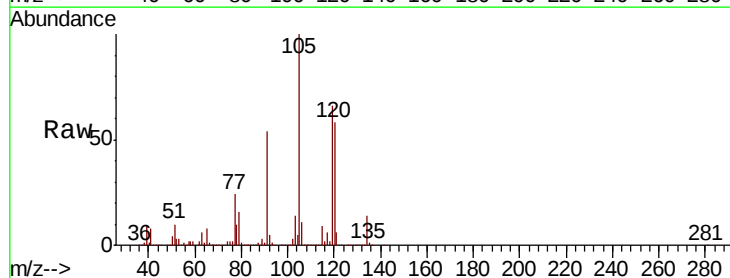
Ion Ratio Lower Upper

105 100

120 57.7 42.5 63.7

91 53.6 37.7 56.5

77 24.0 16.7 25.1

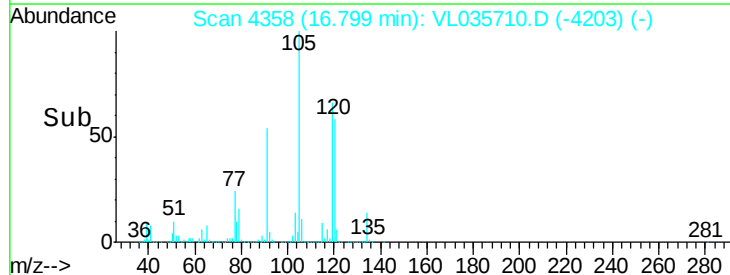
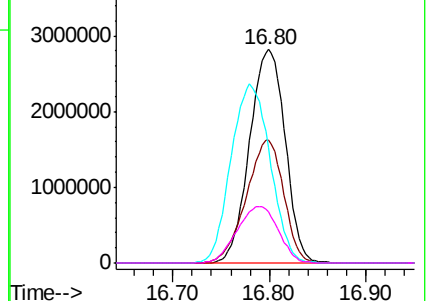


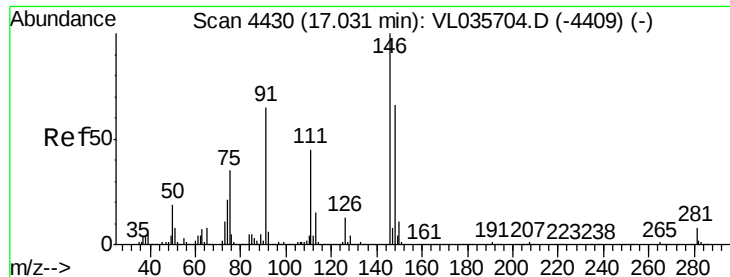
Abundance Ion 105.10 (104.80 to 105.80): V

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: 11.811 ppbv

RT: 17.03 min Scan# 4430

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

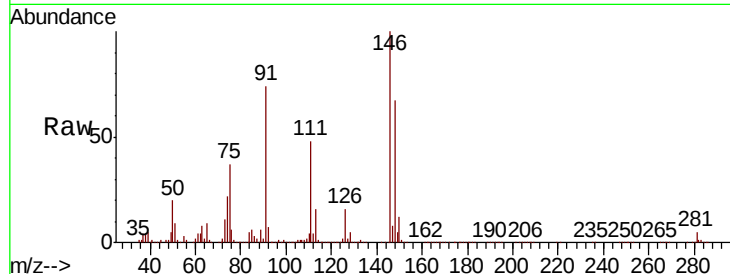
Tot Ion:146 Resp: 4953108

Ion Ratio Lower Upper

146 100

111 45.8 22.4 67.0

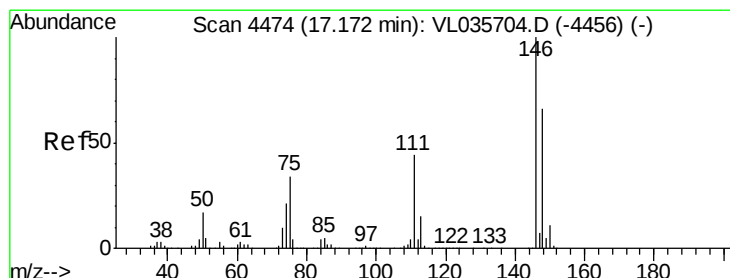
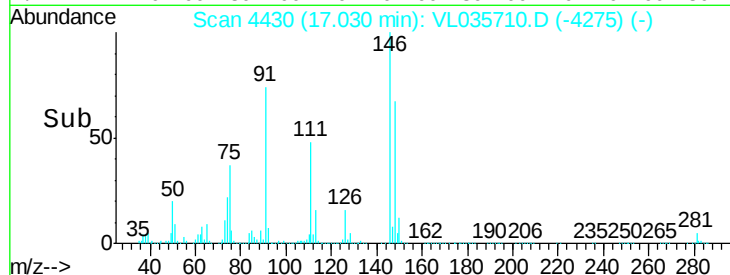
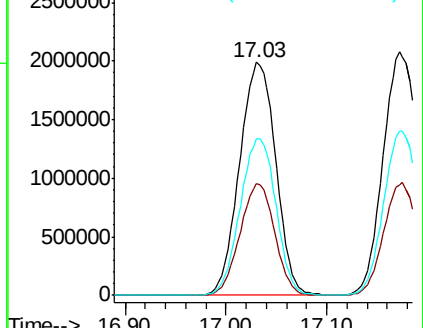
148 66.5 33.0 99.0



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: 12.162 ppbv

RT: 17.17 min Scan# 4474

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

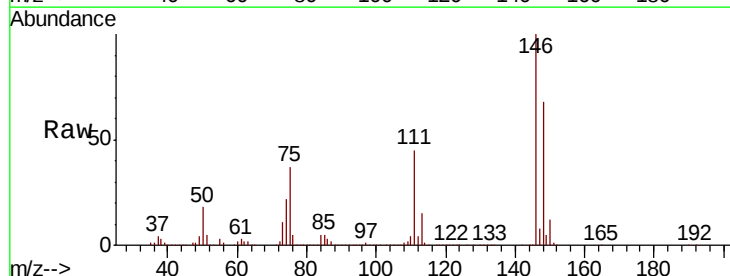
Tgt Ion:146 Resp: 5030498

Ion Ratio Lower Upper

146 100

111 44.5 21.4 64.3

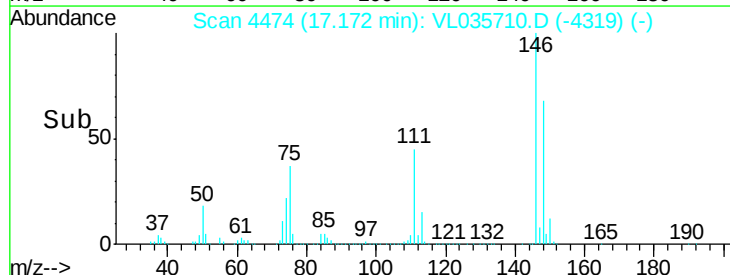
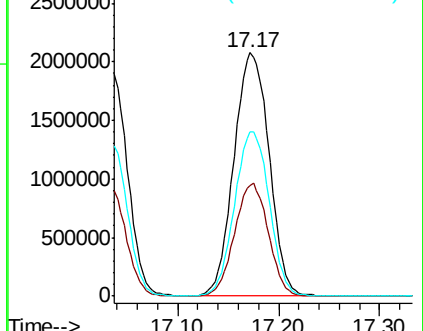
148 66.7 32.6 98.0

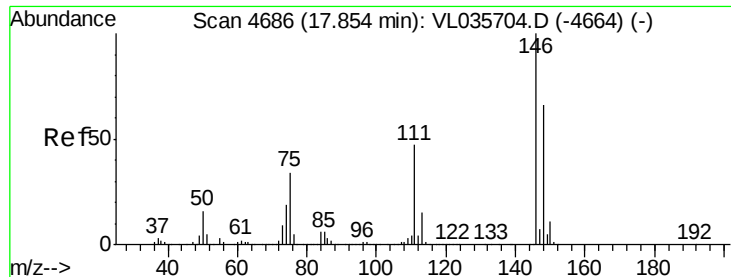


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

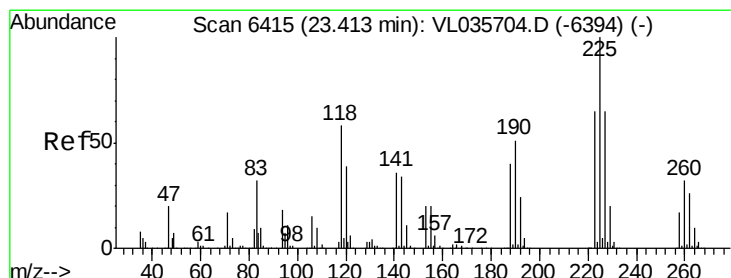
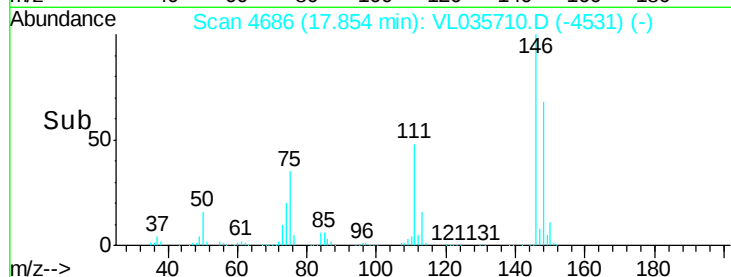
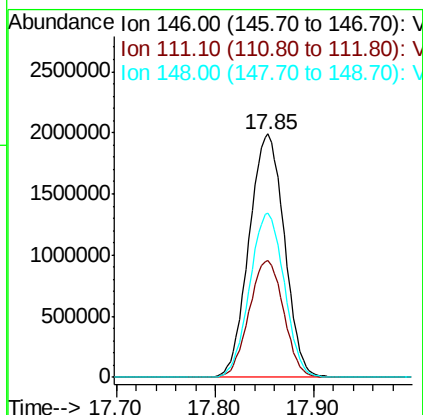
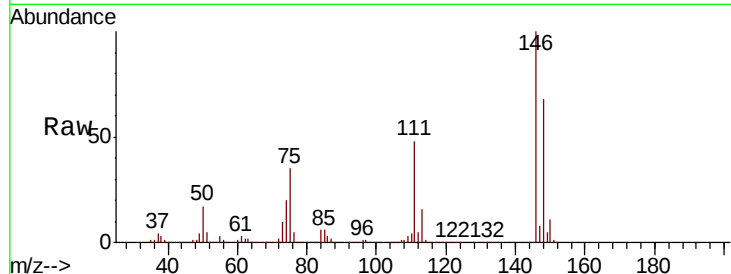




#77
 1,2-Dichlorobenzene
 Concen: 12.100 ppbv
 RT: 17.85 min Scan# 4686
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

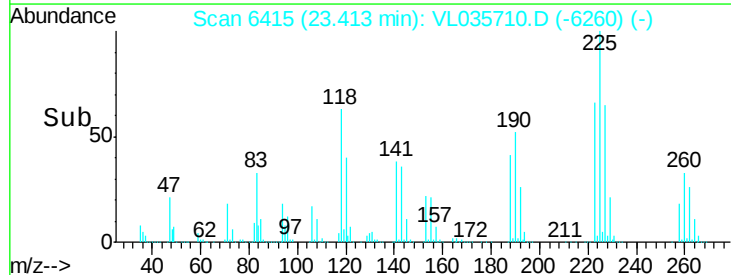
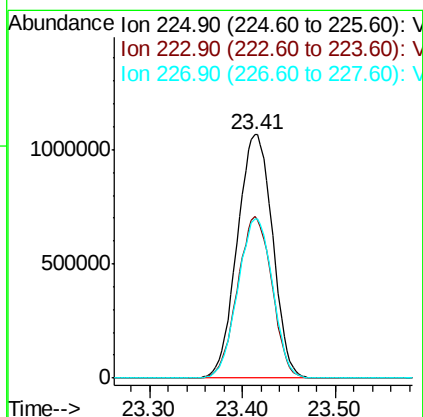
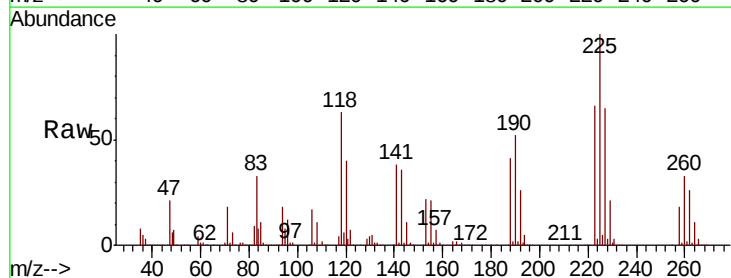
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

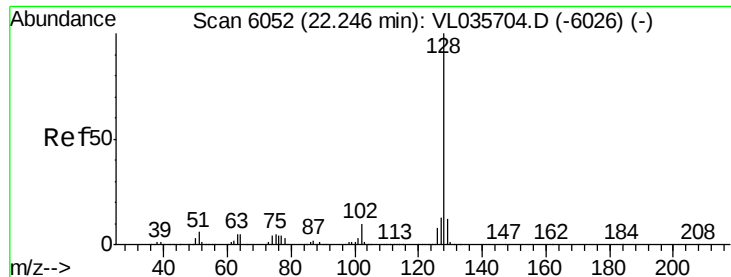
Tot Ion:146 Resp: 4912787
 Ion Ratio Lower Upper
 146 100
 111 47.1 22.9 68.5
 148 66.2 32.6 98.0



#78
 Hexachloro-1,3-Butadiene
 Concen: 11.085 ppbv
 RT: 23.41 min Scan# 6415
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Tgt Ion:225 Resp: 2815855
 Ion Ratio Lower Upper
 225 100
 223 64.6 51.3 76.9
 227 64.6 51.6 77.4





#79

Naphthalene

Concen: 12.984 ppbv

RT: 22.24 min Scan# 6051

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

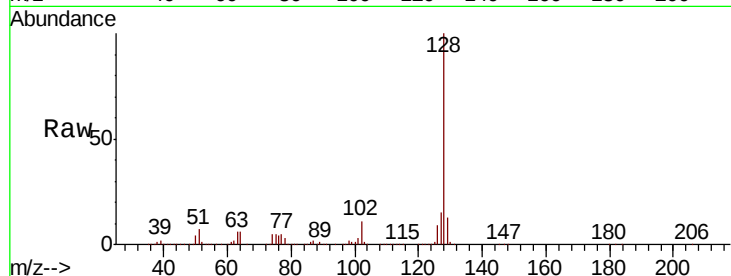
Tot Ion:128 Resp: 8051466

Ion Ratio Lower Upper

128 100

127 14.7 10.6 15.8

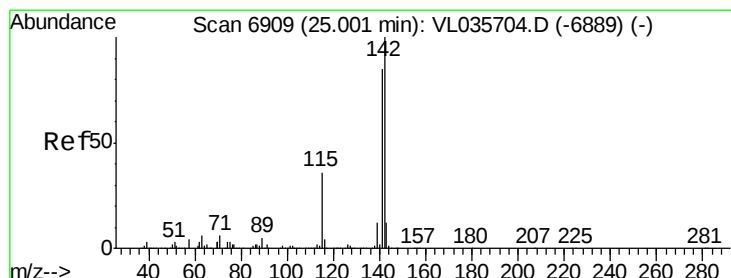
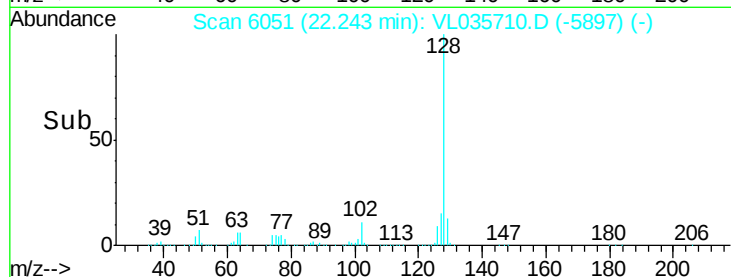
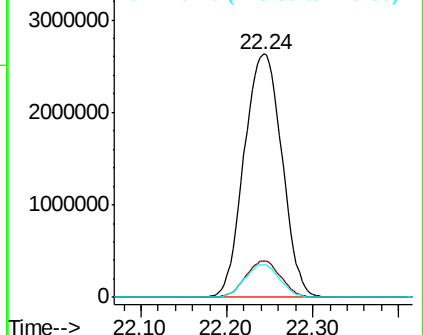
129 13.3 9.4 14.0



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: 15.282 ppbv

RT: 25.00 min Scan# 6909

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

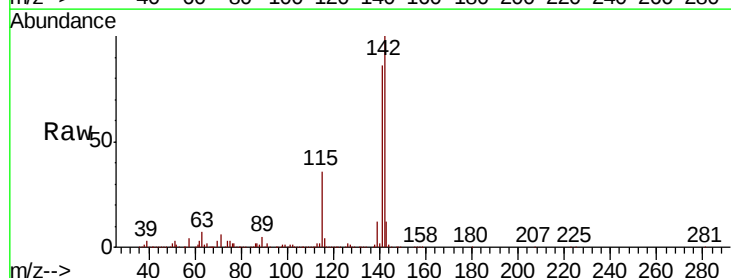
Tgt Ion:142 Resp: 3084263

Ion Ratio Lower Upper

142 100

141 84.6 68.2 102.4

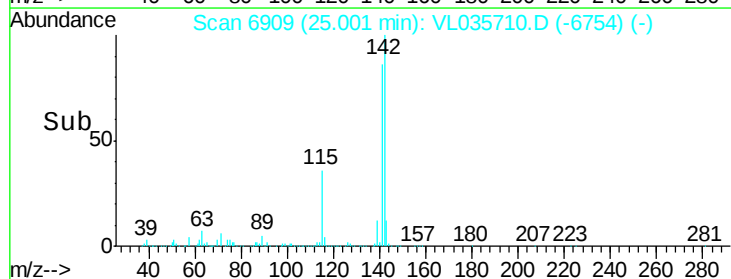
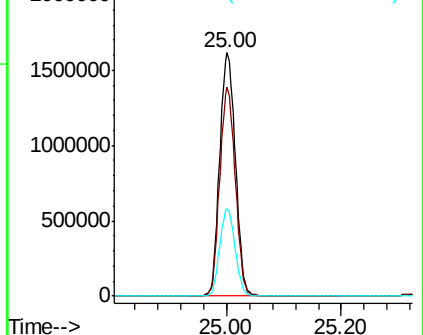
115 35.1 27.8 41.6

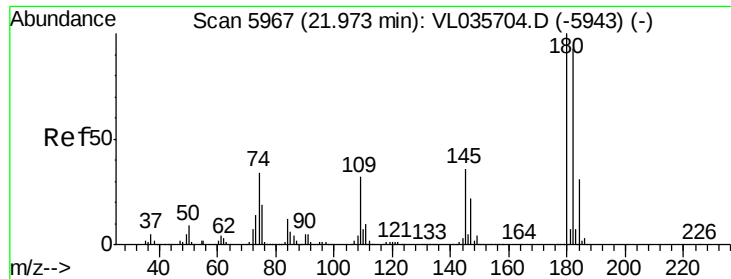


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 11.430 ppbv

RT: 21.97 min Scan# 5967

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

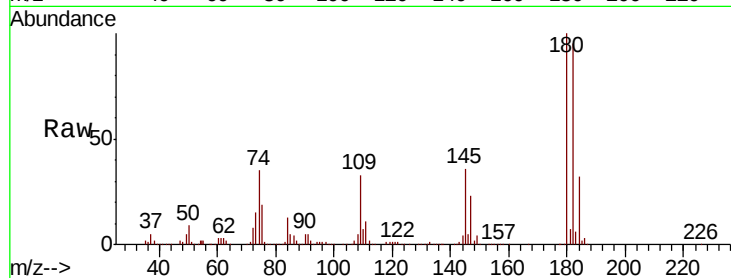
Tot Ion:180 Resp: 4156272

Ion Ratio Lower Upper

180 100

182 95.4 76.2 114.2

184 31.7 24.6 37.0



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

