

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX092120\
 Data File : VX018510.D
 Acq On : 21 Sep 2020 12:47
 Operator : JC/SP
 Sample : VSTD050403
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTD050403

Quant Time: Sep 22 01:06:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SFAMXLM092120WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Sep 22 00:58:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	645914	50.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	612718	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	12.06	152	321758	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	220727	50.00	ug/L	0.00
7) Chloroethane-d5	1.70	69	164766	50.00	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.34	63	454871	50.00	ug/L	0.00
21) 2-Butanone-d5	4.53	46	303130	100.00	ug/L	0.00
24) Chloroform-d	5.14	84	433505	50.00	ug/L	0.00
26) 1,2-Dichloroethane-d4	6.04	65	317646	50.00	ug/L	0.00
32) Benzene-d6	6.05	84	842051	50.00	ug/L	0.00
36) 1,2-Dichloropropane-d6	7.37	67	259256	50.00	ug/L	0.00
41) Toluene-d8	8.70	98	807160	50.00	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.99	79	150899	50.00	ug/L	0.00
47) 2-Hexanone-d5	9.43	63	228707	100.00	ug/L	0.00
56) 1,1,2,2-Tetrachloroethane-	11.23	84	346247	50.00	ug/L	0.00
66) 1,2-Dichlorobenzene-d4	12.36	152	319593	50.00	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.18	85	277663	50.000	ug/L	100
3) Chloromethane	1.31	50	209313	50.000	ug/L	100
5) Vinyl chloride	1.39	62	236999	50.000	ug/L	100
6) Bromomethane	1.64	94	123802	50.000	ug/L	100
8) Chloroethane	1.71	64	141387	50.000	ug/L	100
9) Trichlorofluoromethane	1.92	101	401890	50.000	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.37	101	219407	50.000	ug/L	100
12) 1,1-Dichloroethene	2.36	96	206882	50.000	ug/L	100
13) Acetone	2.42	43	207476	100.000	ug/L	100
14) Carbon disulfide	2.55	76	634521	50.000	ug/L	100
15) Methyl Acetate	2.75	43	226441	50.055	ug/L #	90
16) Methylene chloride	2.84	84	223286	50.000	ug/L	100
17) trans-1,2-Dichloroethene	3.14	96	215189	50.000	ug/L	100
18) Methyl tert-butyl Ether	3.17	73	713497	50.000	ug/L	100
19) 1,1-Dichloroethane	3.67	63	404305	50.000	ug/L	100
20) cis-1,2-Dichloroethene	4.56	96	233028	50.000	ug/L	100
22) 2-Butanone	4.64	43	326777	100.000	ug/L	100
23) Bromochloromethane	4.98	128	131946	50.000	ug/L	100
25) Chloroform	5.18	83	454768	50.000	ug/L	100
27) 1,2-Dichloroethane	6.17	62	366337	50.000	ug/L	100
29) Cyclohexane	5.55	56	346251	50.000	ug/L	100
30) 1,1,1-Trichloroethane	5.46	97	416186	50.000	ug/L	100
31) Carbon tetrachloride	5.75	117	380885	50.000	ug/L	100
33) Benzene	6.12	78	884737	50.000	ug/L	100
34) Trichloroethene	7.19	95	241456	50.000	ug/L	100
35) Methylcyclohexane	7.44	83	362781	50.000	ug/L	100
37) 1,2-Dichloropropane	7.49	63	229023	50.000	ug/L	100
38) Bromodichloromethane	7.87	83	333013	50.000	ug/L	100
39) cis-1,3-Dichloropropene	8.41	75	380084	50.000	ug/L	100
40) 4-Methyl-2-pentanone	8.62	43	637667	100.000	ug/L	100

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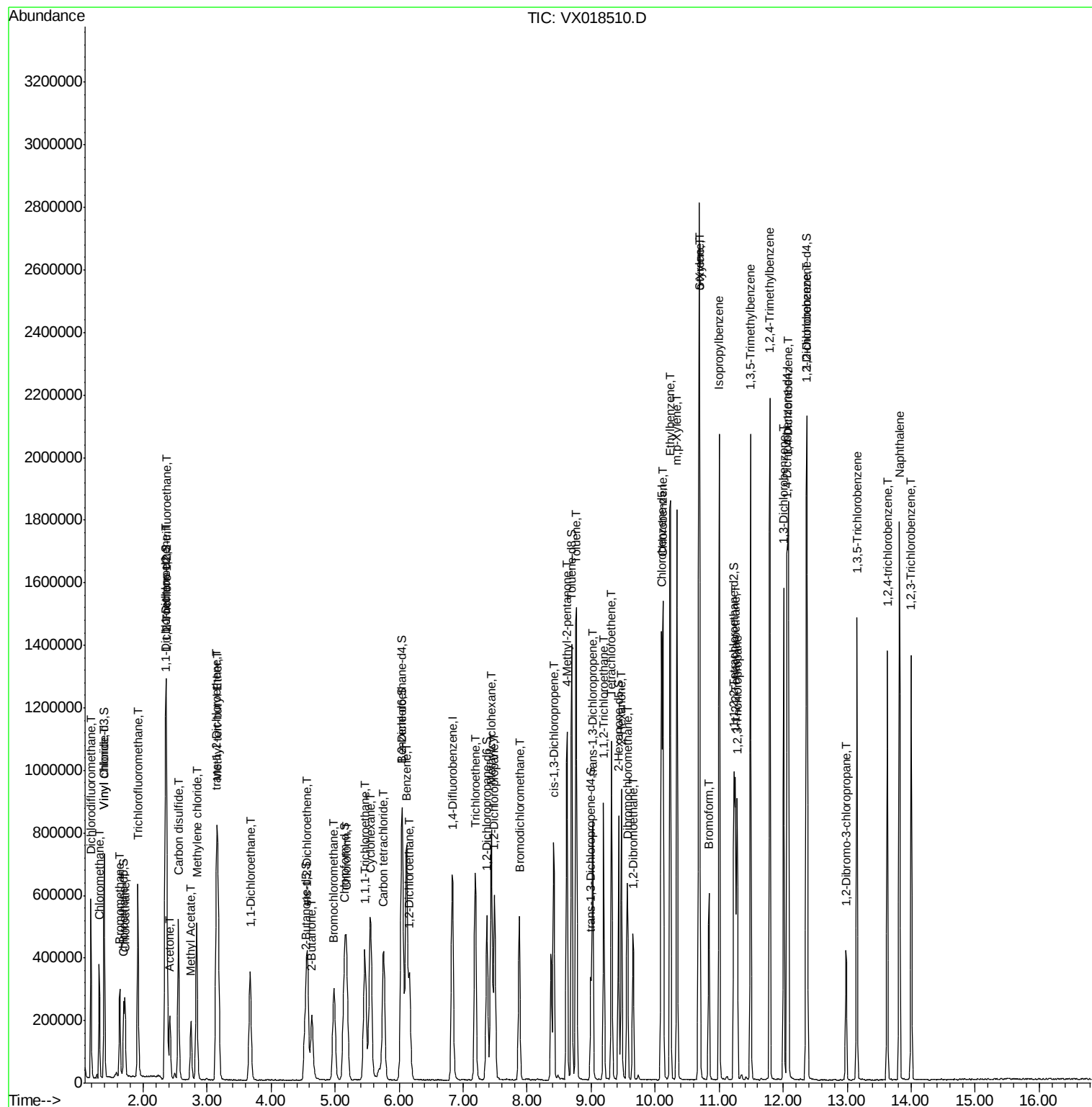
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.77	91	971013	50.000	ug/L	100
44) trans-1,3-Dichloropropene	9.02	75	383297	50.000	ug/L	100
45) 1,1,2-Trichloroethane	9.20	97	229167	50.000	ug/L	100
46) Tetrachloroethene	9.32	164	200988	50.000	ug/L	100
48) 2-Hexanone	9.47	43	495769	100.000	ug/L	100
49) Dibromochloromethane	9.57	129	285323	50.000	ug/L	100
50) 1,2-Dibromoethane	9.65	107	248008	50.000	ug/L	100
51) Chlorobenzene	10.12	112	642564	50.000	ug/L	100
52) Ethylbenzene	10.24	91	1074371	50.000	ug/L	100
53) m,p-Xylene	10.34	106	419000	50.000	ug/L	100
54) o-Xylene	10.68	106	405738	50.000	ug/L	100
55) Styrene	10.70	104	692781	50.000	ug/L	100
57) 1,1,2,2-Tetrachloroethane	11.25	83	347178	50.000	ug/L	100
59) Bromoform	10.84	173	216681	50.000	ug/L	100
60) Isopropylbenzene	11.00	105	1067995	50.000	ug/L	100
61) 1,2,3-Trichloropropane	11.28	75	284889	50.000	ug/L	100
62) 1,3,5-Trimethylbenzene	11.49	105	885588	50.000	ug/L	100
63) 1,2,4-Trimethylbenzene	11.79	105	909479	50.000	ug/L	100
64) 1,3-Dichlorobenzene	12.01	146	509981	50.000	ug/L	100
65) 1,4-Dichlorobenzene	12.08	146	517161	50.000	ug/L	100
67) 1,2-Dichlorobenzene	12.38	146	494082	50.000	ug/L	100
68) 1,2-Dibromo-3-chloropropan	12.98	75	85112	50.000	ug/L	100
69) 1,3,5-Trichlorobenzene	13.15	180	328939	50.000	ug/L	100
70) 1,2,4-trichlorobenzene	13.63	180	300279	50.000	ug/L	100
71) Naphthalene	13.82	128	1019585	50.000	ug/L	100
72) 1,2,3-Trichlorobenzene	14.00	180	319924	50.000	ug/L	100

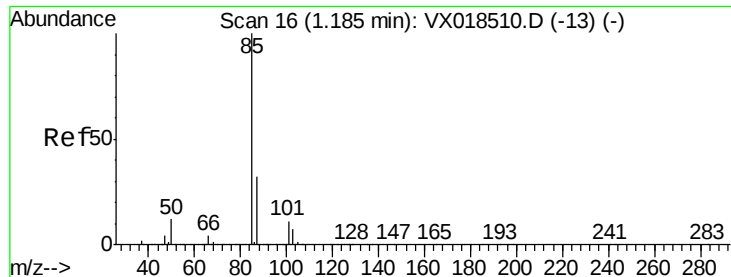
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 50.000 ug/L

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

Instrument :

MSVOA_X

ClientSampleId :

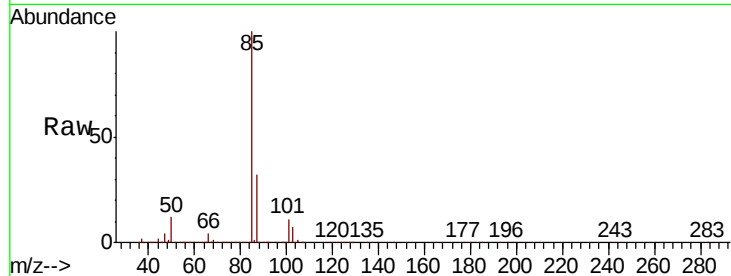
VSTD050403

Tot Ion: 85 Resp: 277663

Ion Ratio Lower Upper

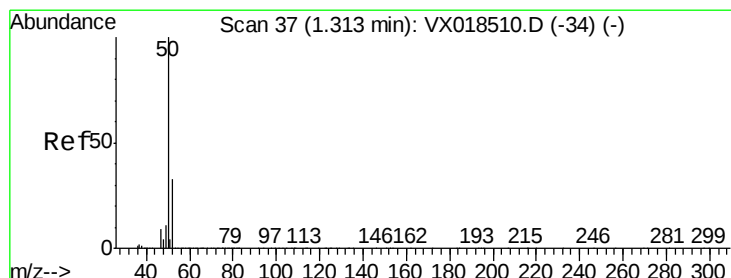
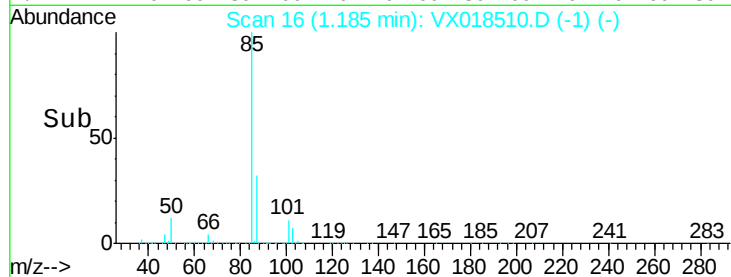
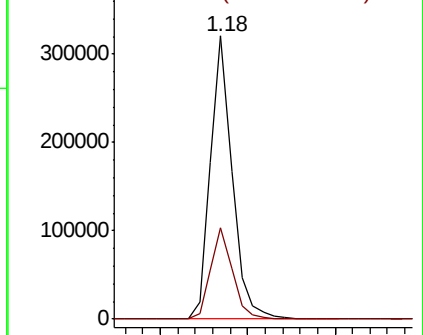
85 100

87 32.8 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#3

Chloromethane

Concen: 50.000 ug/L

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX018510.D

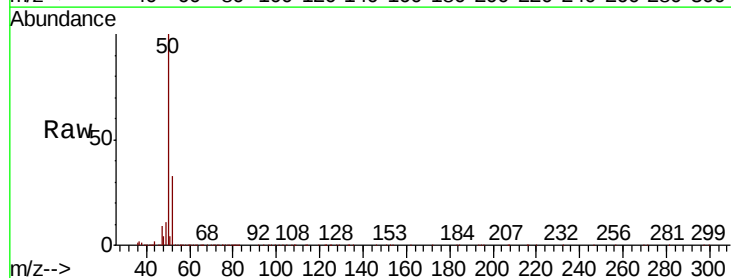
Acq: 21 Sep 2020 12:47

Tgt Ion: 50 Resp: 209313

Ion Ratio Lower Upper

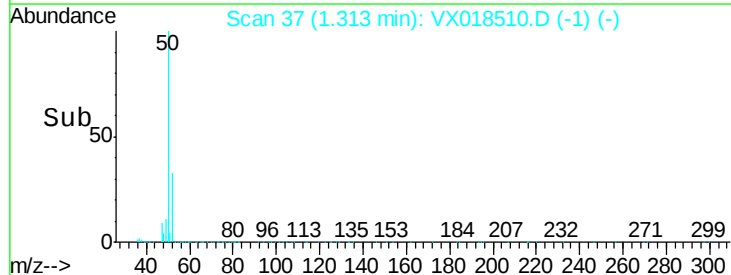
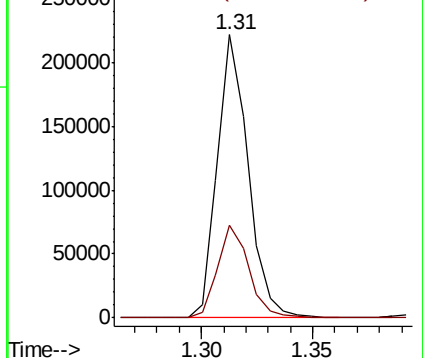
50 100

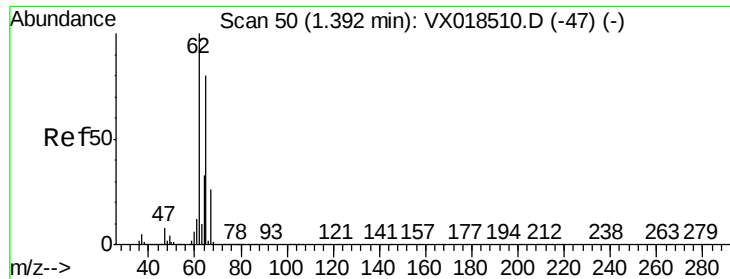
52 32.8 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#5

Vinyl chloride

Concen: 50.000 ug/L

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

Instrument :

MSVOA_X

ClientSampleID :

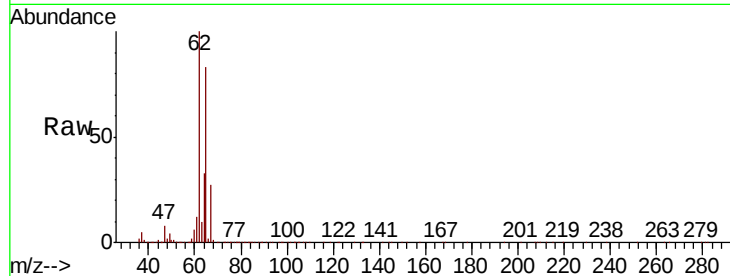
VSTD050403

Tot Ion: 62 Resp: 236999

Ion Ratio Lower Upper

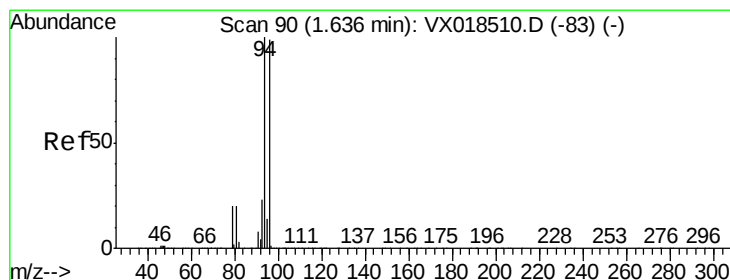
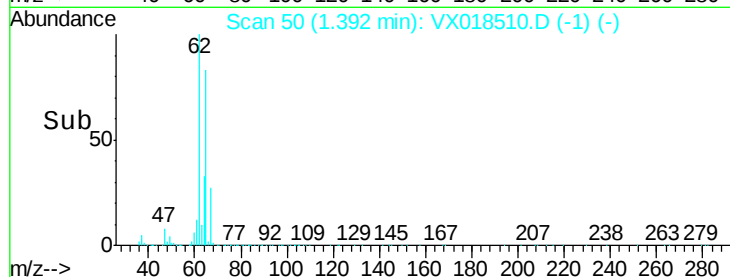
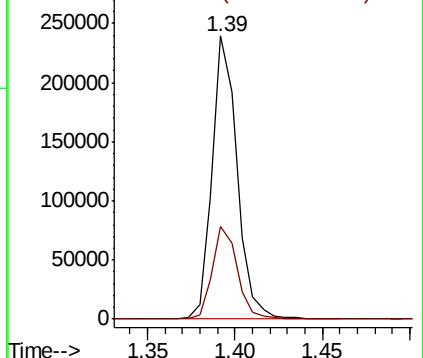
62 100

64 32.8 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 64.00 (63.70 to 64.70): VX0



#6

Bromomethane

Concen: 50.000 ug/L

RT: 1.64 min Scan# 90

Delta R.T. 0.00 min

Lab File: VX018510.D

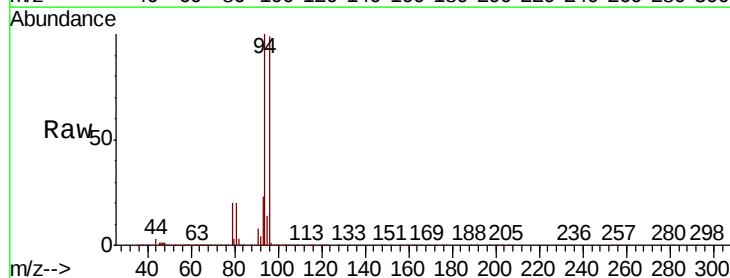
Acq: 21 Sep 2020 12:47

Tgt Ion: 94 Resp: 123802

Ion Ratio Lower Upper

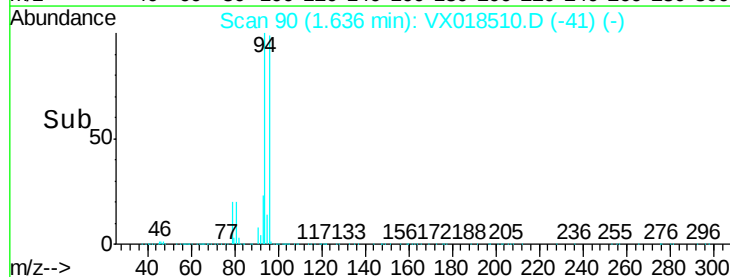
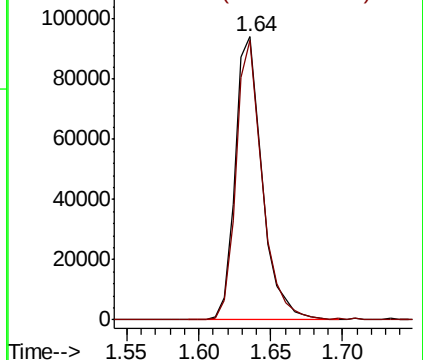
94 100

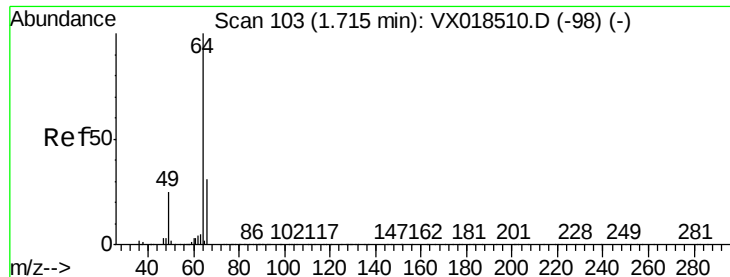
96 98.8 69.2 128.4



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0





#8

Chloroethane

Concen: 50.000 ug/L

RT: 1.71 min Scan# 103

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

Instrument :

MSVOA_X

ClientSampleId :

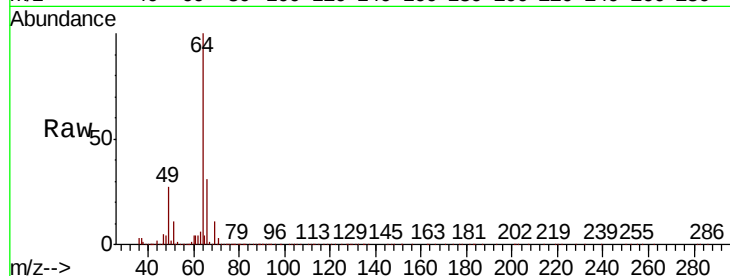
VSTD050403

Tot Ion: 64 Resp: 141387

Ion Ratio Lower Upper

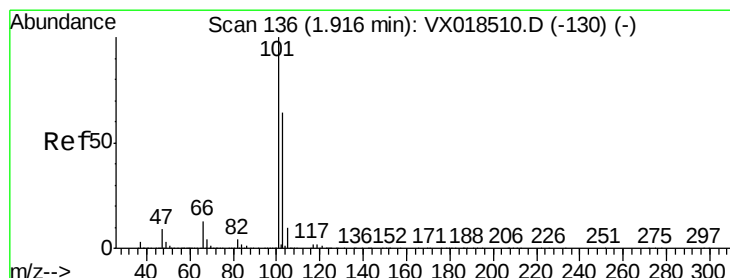
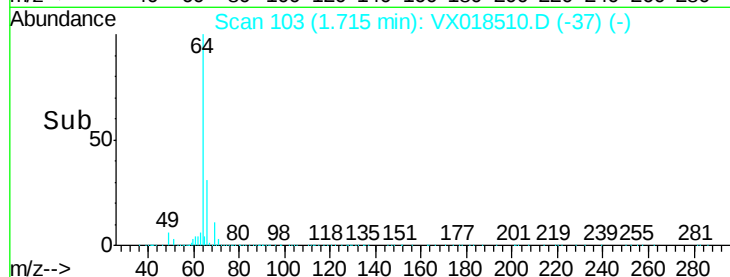
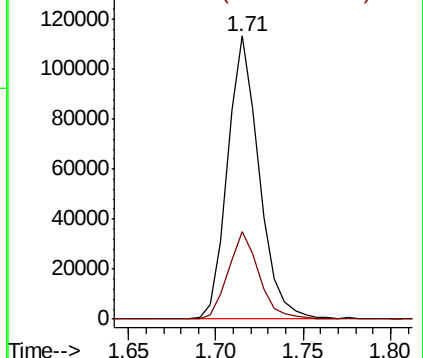
64 100

66 30.9 21.6 40.2



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0



#9

Trichlorofluoromethane

Concen: 50.000 ug/L

RT: 1.92 min Scan# 136

Delta R.T. 0.00 min

Lab File: VX018510.D

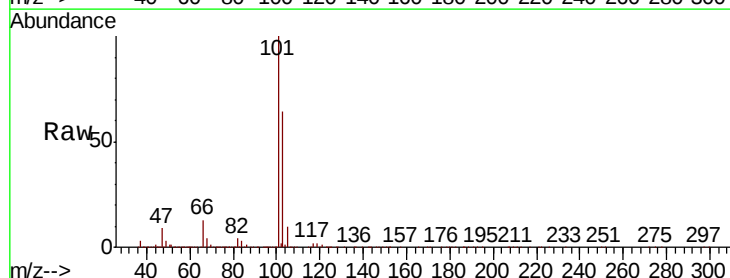
Acq: 21 Sep 2020 12:47

Tgt Ion:101 Resp: 401890

Ion Ratio Lower Upper

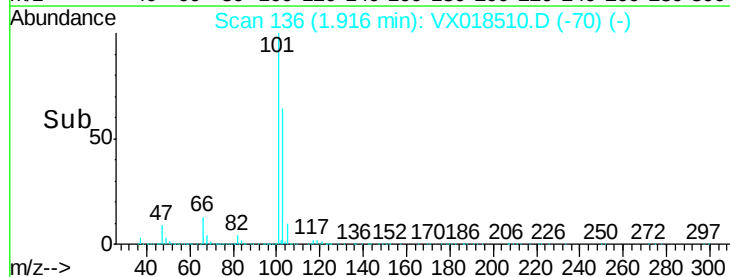
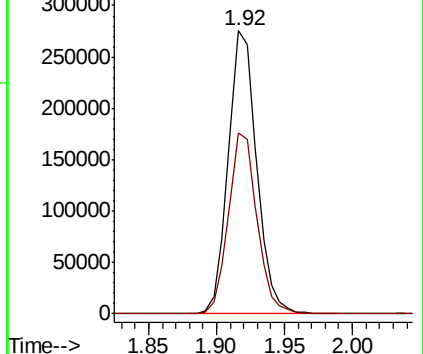
101 100

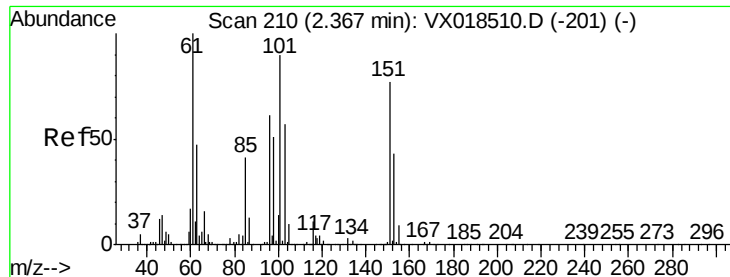
103 64.4 51.5 77.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 50.000 ug/L

RT: 2.37 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

Instrument :

MSVOA_X

ClientSampleId :

VSTD050403

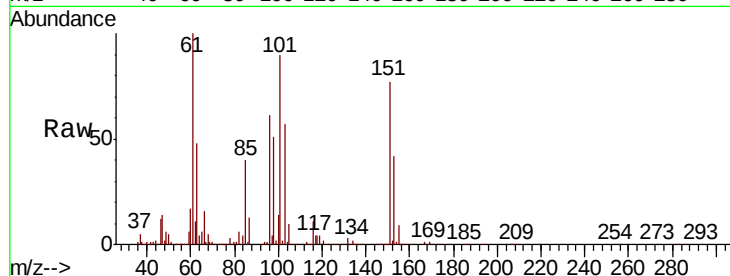
Tot Ion:101 Resp: 219407

Ion Ratio Lower Upper

101 100

85 43.6 34.9 52.3

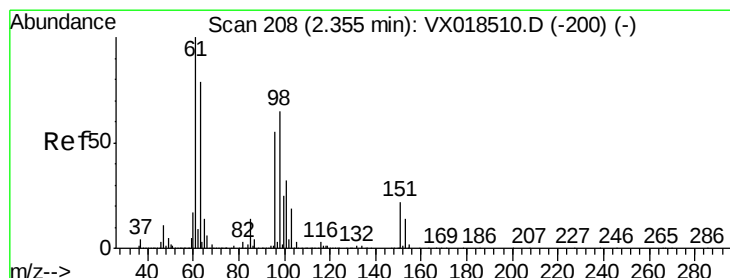
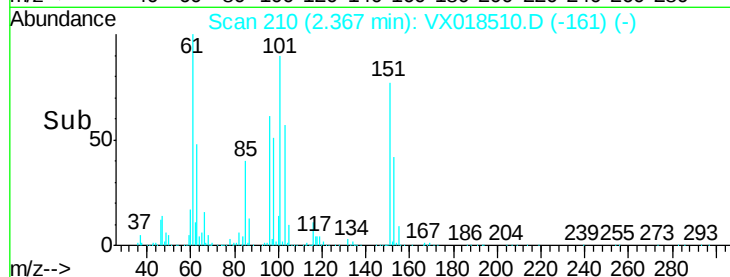
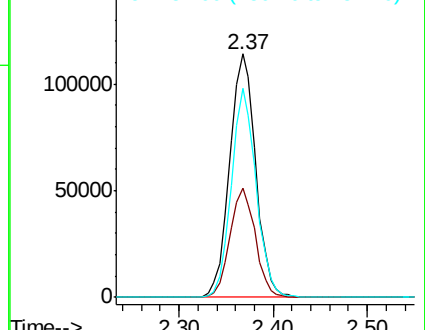
151 81.2 65.0 97.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VX0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 50.000 ug/L

RT: 2.36 min Scan# 208

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

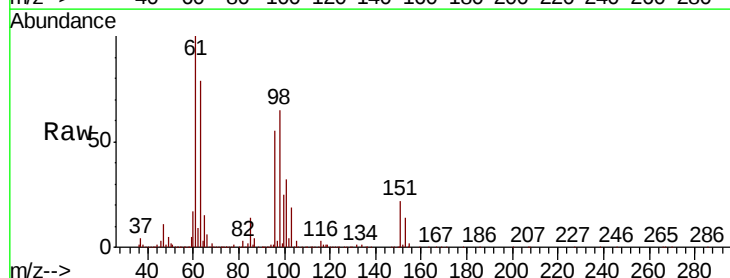
Tgt Ion: 96 Resp: 206882

Ion Ratio Lower Upper

96 100

61 181.2 126.8 235.6

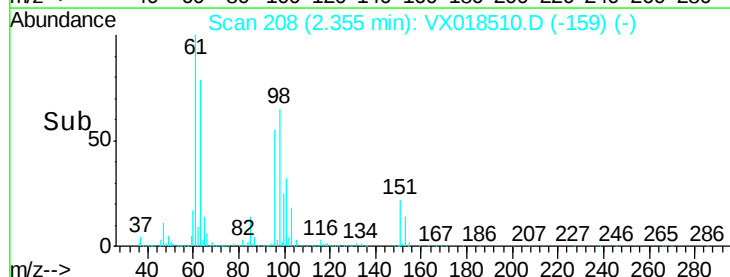
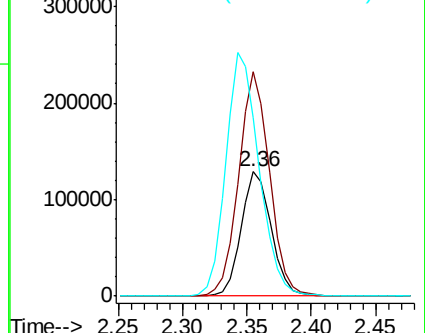
63 143.3 100.3 186.3

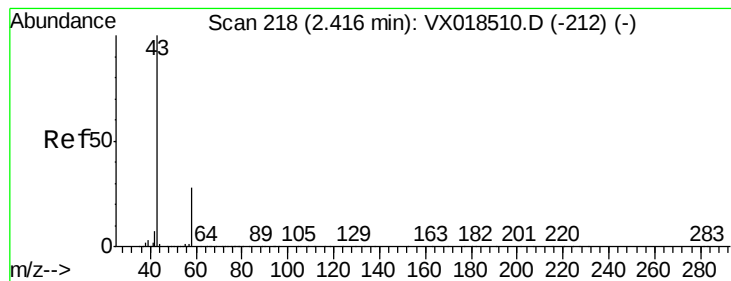


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 63.00 (62.70 to 63.70): VX0





#13

Acetone

Concen: 100.000 ug/L

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

Instrument :

MSVOA_X

ClientSampleId :

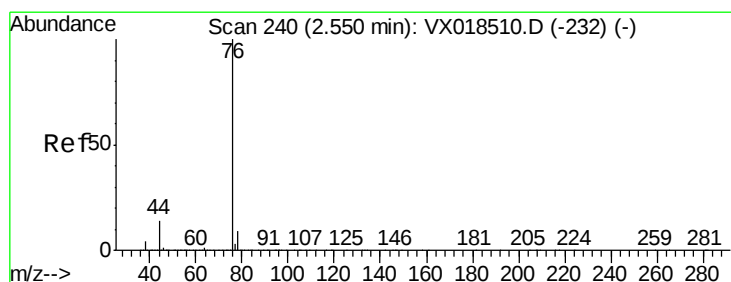
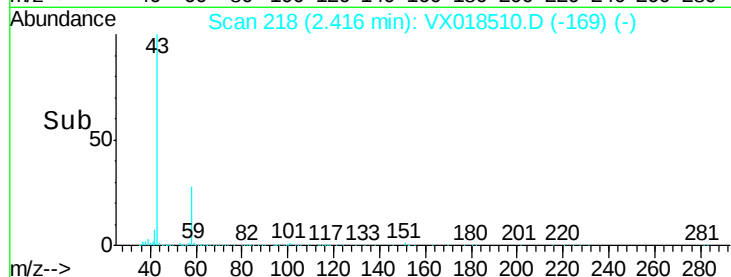
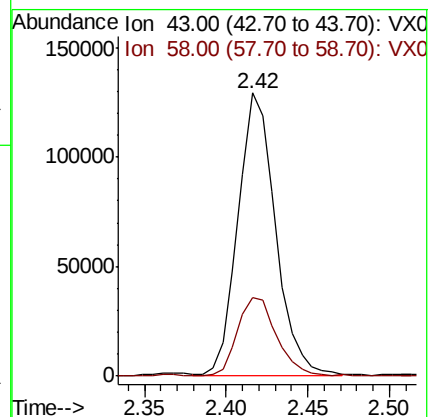
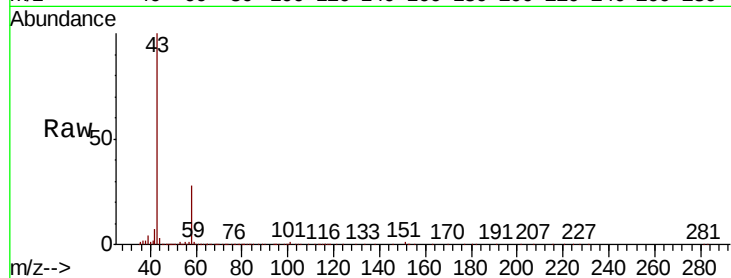
VSTD050403

Tot Ion: 43 Resp: 207476

Ion Ratio Lower Upper

43 100

58 28.8 0.0 57.6



#14

Carbon disulfide

Concen: 50.000 ug/L

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX018510.D

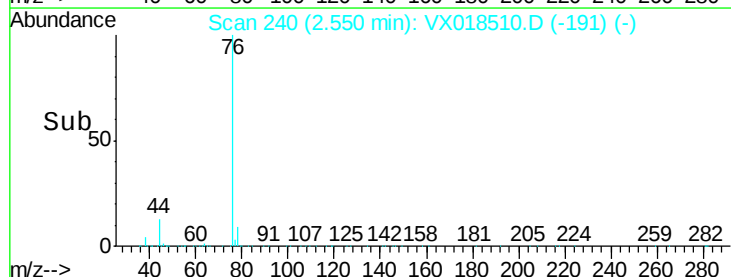
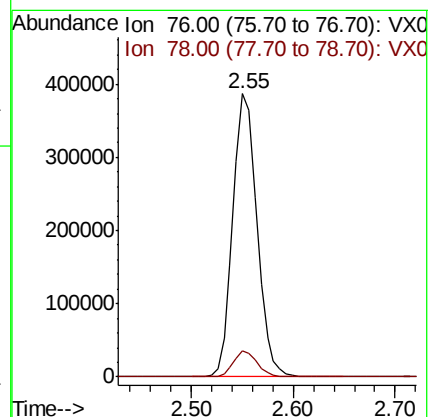
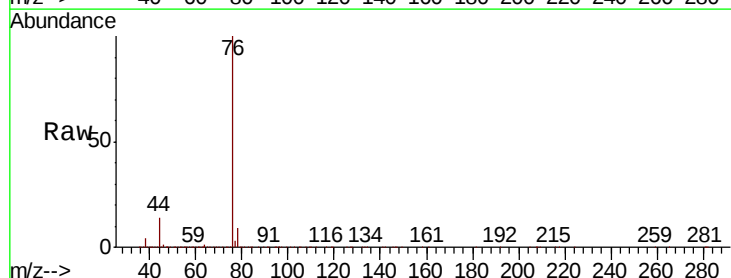
Acq: 21 Sep 2020 12:47

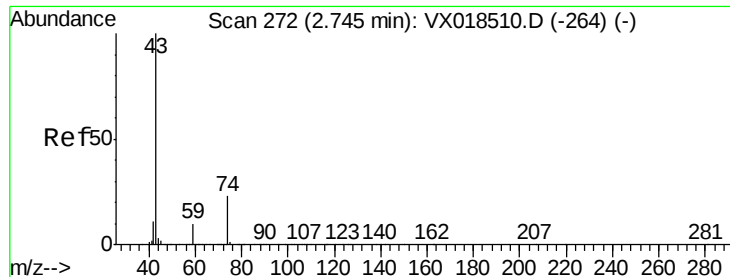
Tgt Ion: 76 Resp: 634521

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.2

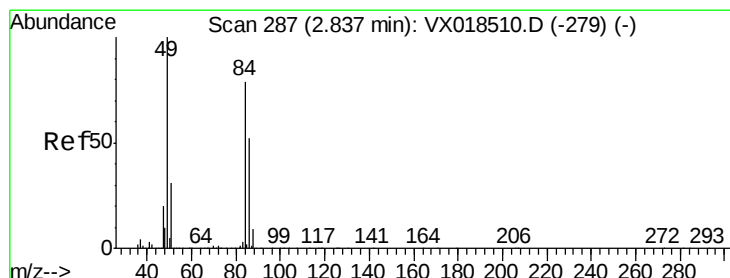
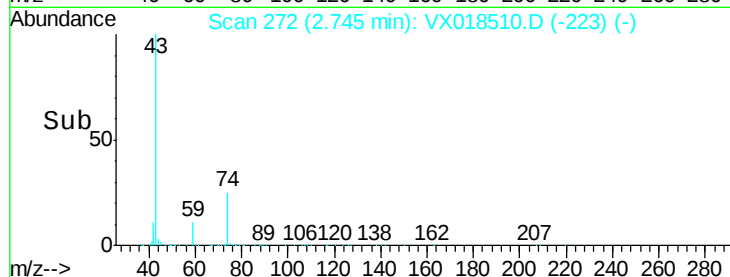
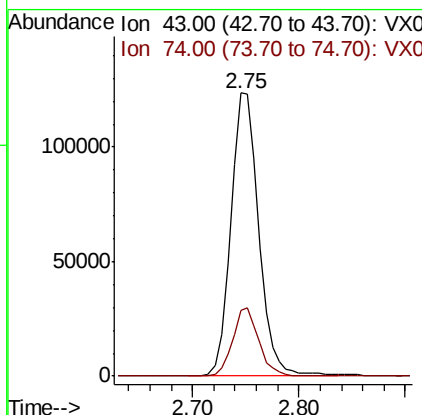
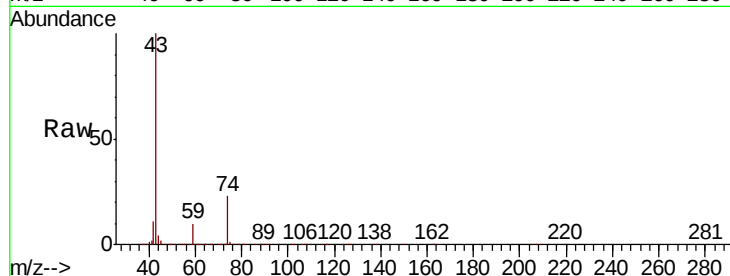




#15
Methyl Acetate
Concen: 50.055 ug/L
RT: 2.75 min Scan# 272
Delta R.T. 0.00 min
Lab File: VX018510.D
Acq: 21 Sep 2020 12:47

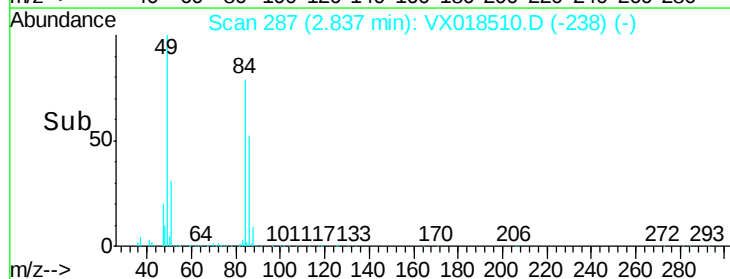
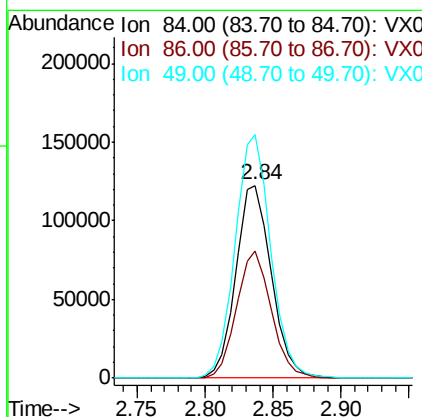
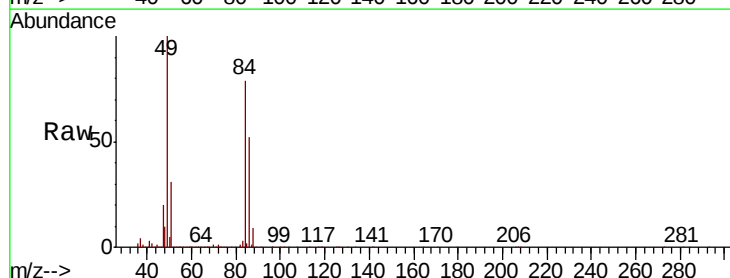
Instrument :
MSVOA_X
ClientSampled :
VSTD050403

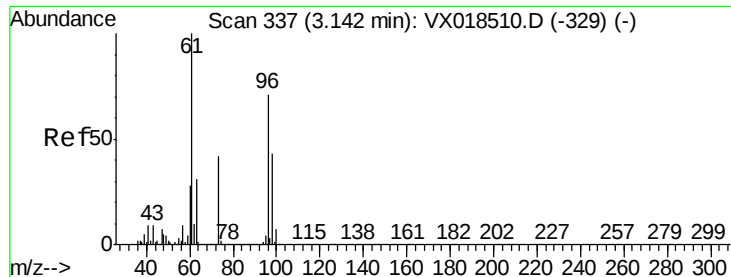
Tot Ion: 43 Resp: 226441
Ion Ratio Lower Upper
43 100
74 22.7 0.1 0.1#



#16
Methylene chloride
Concen: 50.000 ug/L
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX018510.D
Acq: 21 Sep 2020 12:47

Tgt Ion: 84 Resp: 223286
Ion Ratio Lower Upper
84 100
86 65.9 46.1 85.7
49 126.4 88.5 164.3





#17

trans-1,2-Dichloroethene

Concen: 50.000 ug/L

RT: 3.14 min Scan# 337

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

Instrument :

MSVOA_X

ClientSampleId :

VSTD050403

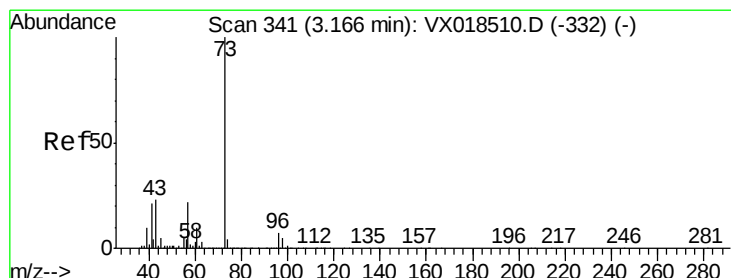
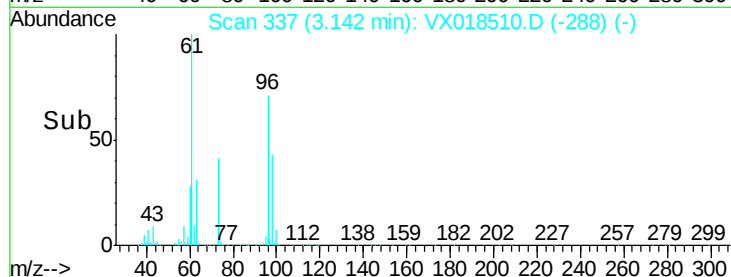
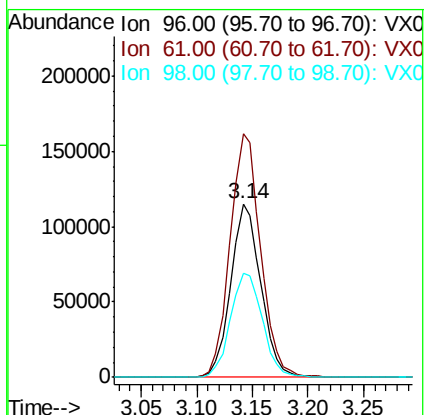
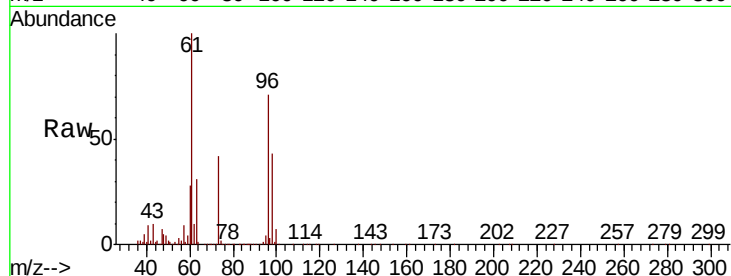
Tot Ion: 96 Resp: 215189

Ion Ratio Lower Upper

96 100

61 140.4 98.3 182.5

98 60.0 42.0 78.0



#18

Methyl tert-butyl Ether

Concen: 50.000 ug/L

RT: 3.17 min Scan# 341

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

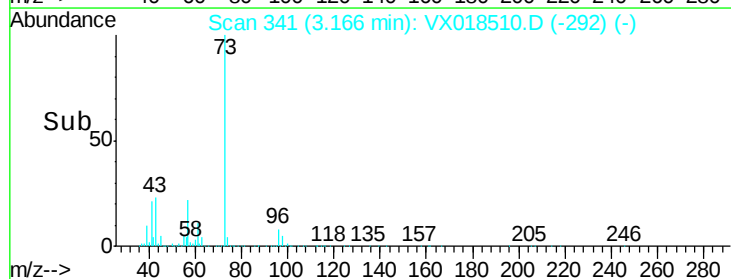
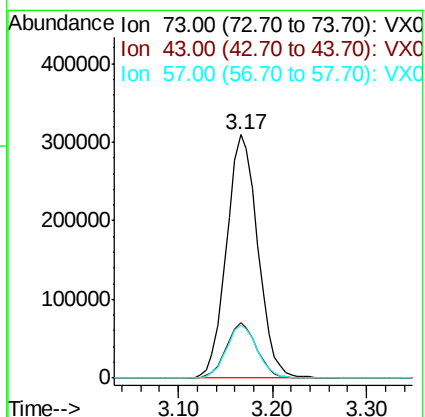
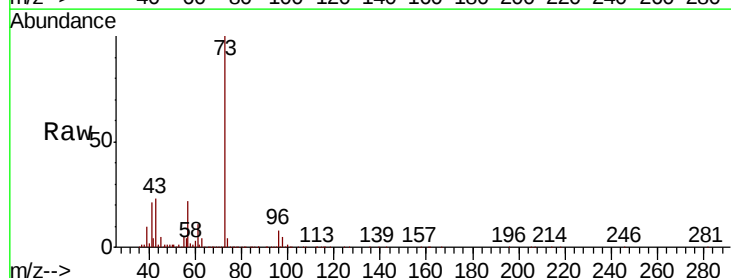
Tgt Ion: 73 Resp: 713497

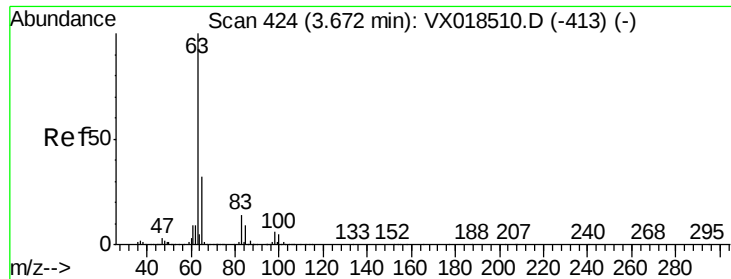
Ion Ratio Lower Upper

73 100

43 22.2 17.8 26.6

57 21.4 17.1 25.7





#19

1,1-Dichloroethane

Concen: 50.000 ug/L

RT: 3.67 min Scan# 424

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

Instrument :

MSVOA_X

ClientSampleId :

VSTD050403

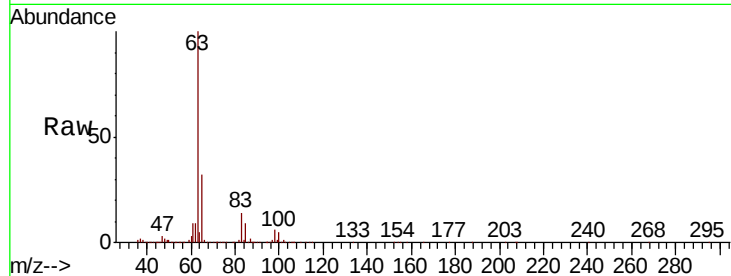
Tot Ion: 63 Resp: 404305

Ion Ratio Lower Upper

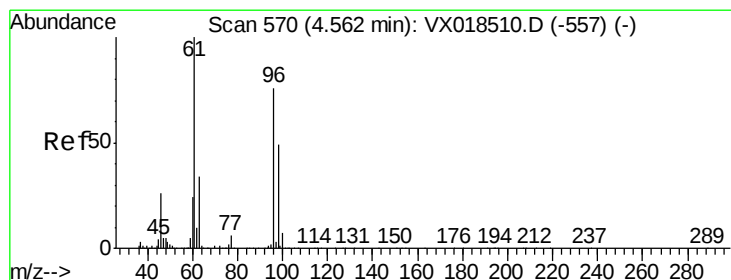
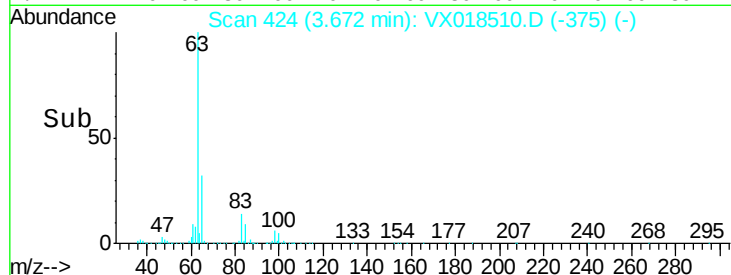
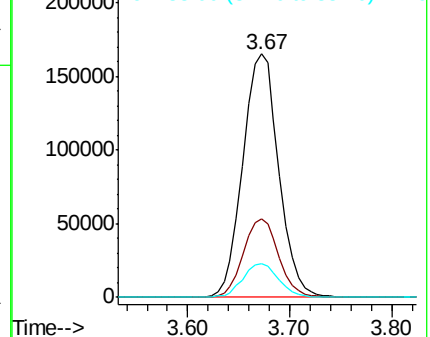
63 100

65 32.1 22.5 41.7

83 13.8 9.7 17.9



Abundance Ion 63.00 (62.70 to 63.70): VX0
Ion 65.00 (64.70 to 65.70): VX0
Ion 83.00 (82.70 to 83.70): VX0



#20

cis-1,2-Dichloroethene

Concen: 50.000 ug/L

RT: 4.56 min Scan# 570

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

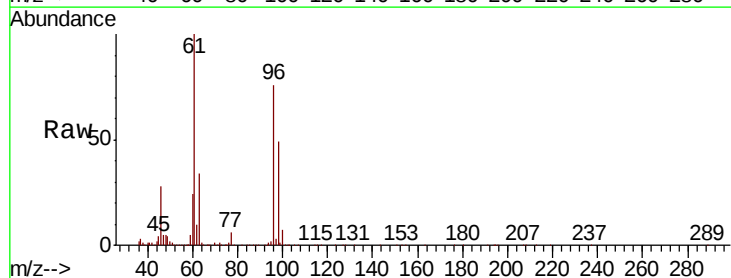
Tgt Ion: 96 Resp: 233028

Ion Ratio Lower Upper

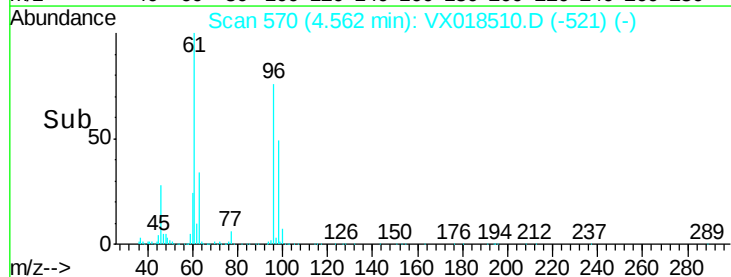
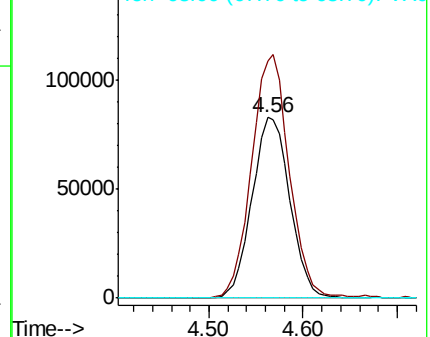
96 100

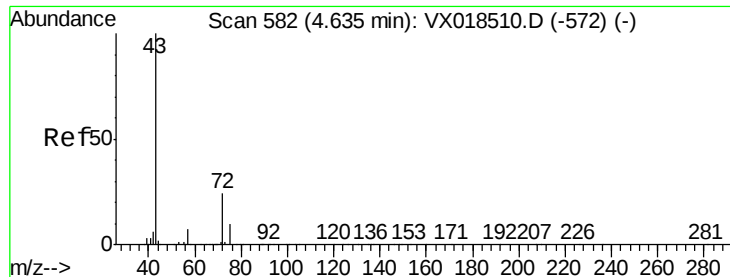
61 131.2 91.8 170.6

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 68.00 (67.70 to 68.70): VX0





#22

2-Butanone

Concen: 100.000 ug/L

RT: 4.64 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

Instrument :

MSVOA_X

ClientSampleId :

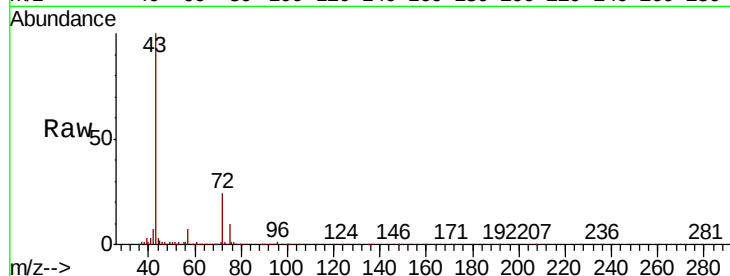
VSTD050403

Tot Ion: 43 Resp: 326777

Ion Ratio Lower Upper

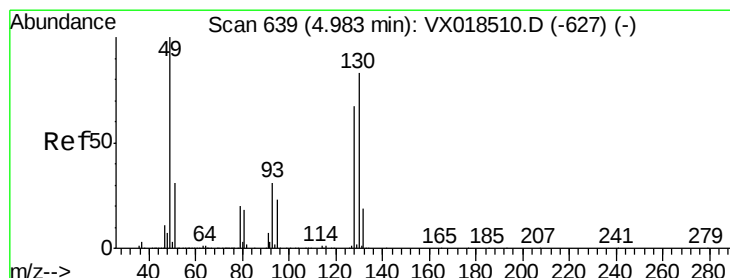
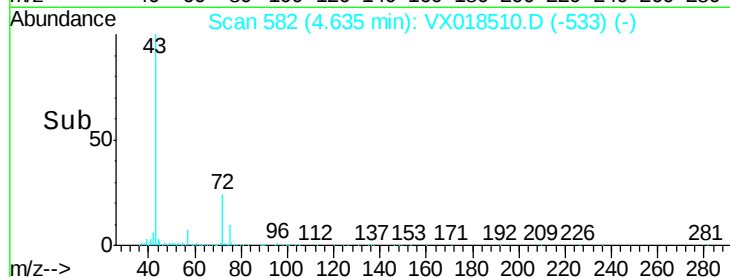
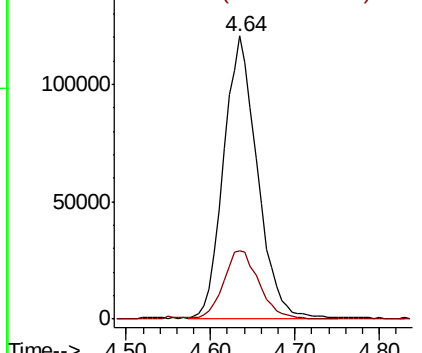
43 100

72 25.7 12.9 38.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#23

Bromochloromethane

Concen: 50.000 ug/L

RT: 4.98 min Scan# 639

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

Tgt Ion: 128 Resp: 131946

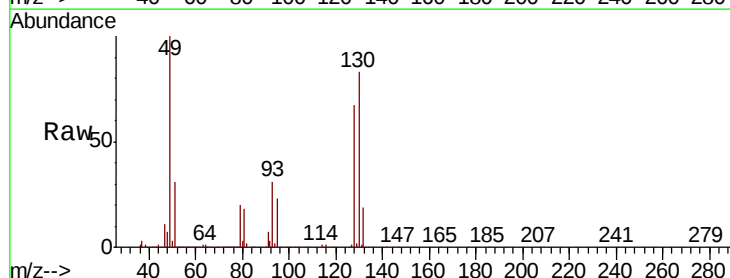
Ion Ratio Lower Upper

128 100

49 149.8 104.9 194.7

130 123.6 86.5 160.7

51 46.3 37.0 55.6

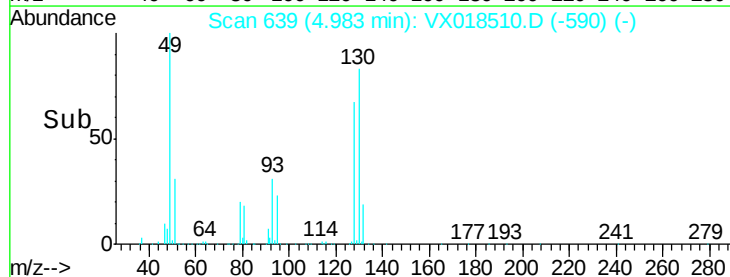
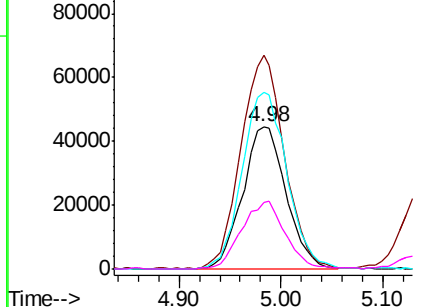


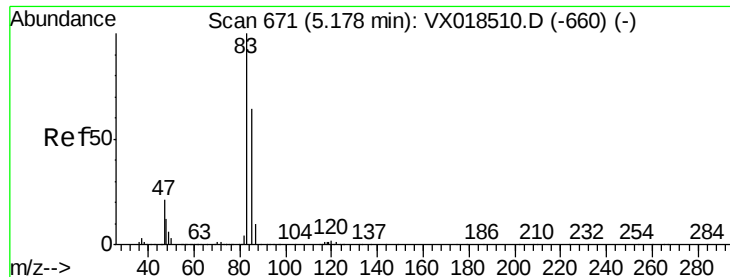
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VX0





#25

Chloroform

Concen: 50.000 ug/L

RT: 5.18 min Scan# 671

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

Instrument :

MSVOA_X

ClientSampleId :

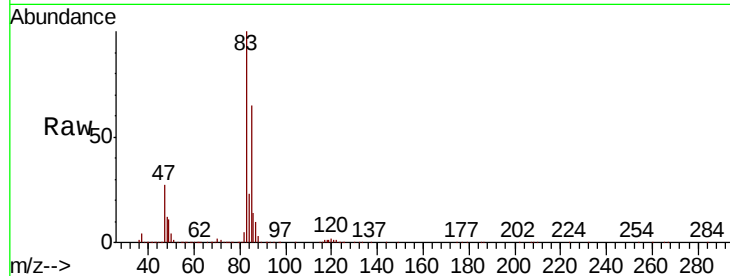
VSTD050403

Tot Ion: 83 Resp: 454768

Ion Ratio Lower Upper

83 100

85 65.2 45.6 84.8



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

150000

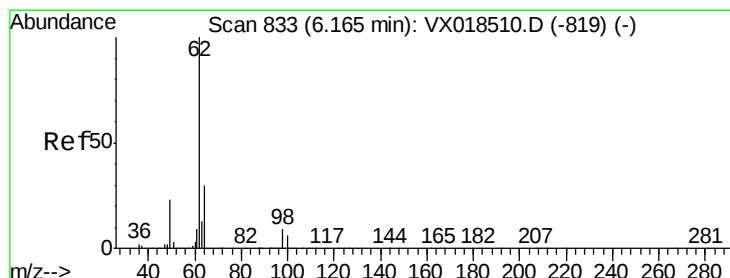
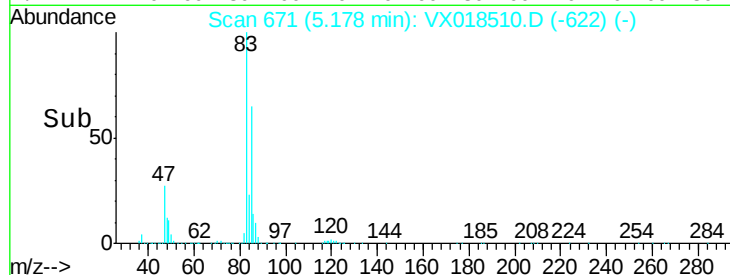
100000

50000

0

5.10 5.20 5.30

Time-->



#27

1,2-Dichloroethane

Concen: 50.000 ug/L

RT: 6.17 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX018510.D

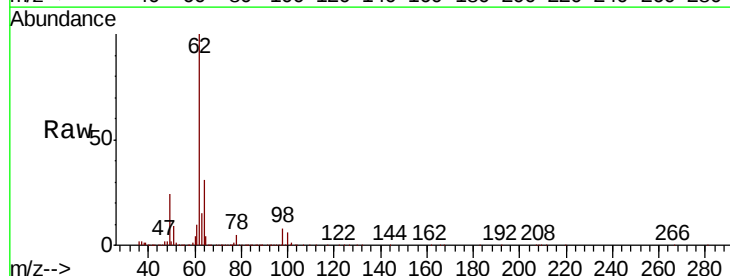
Acq: 21 Sep 2020 12:47

Tgt Ion: 62 Resp: 366337

Ion Ratio Lower Upper

62 100

98 8.4 6.7 10.1



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

150000

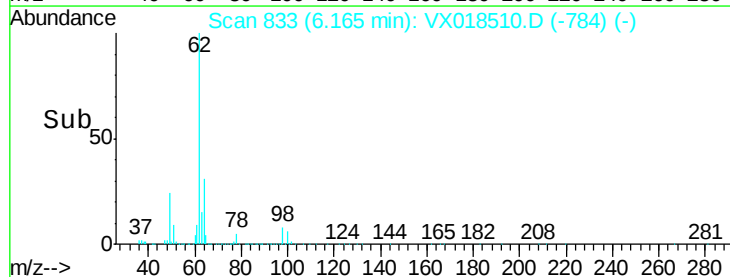
100000

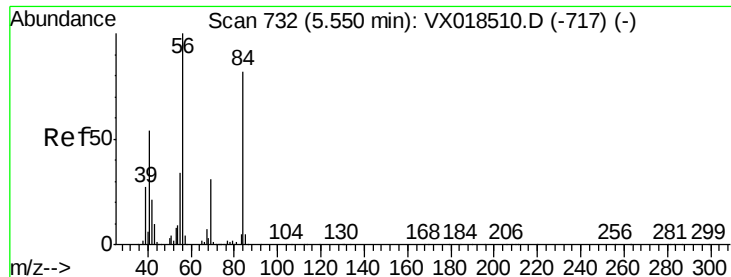
50000

0

6.00 6.10 6.20 6.30

Time-->

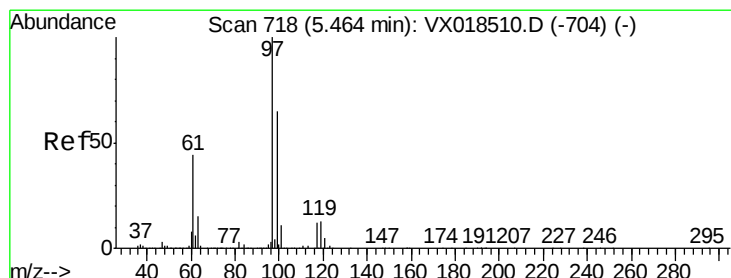
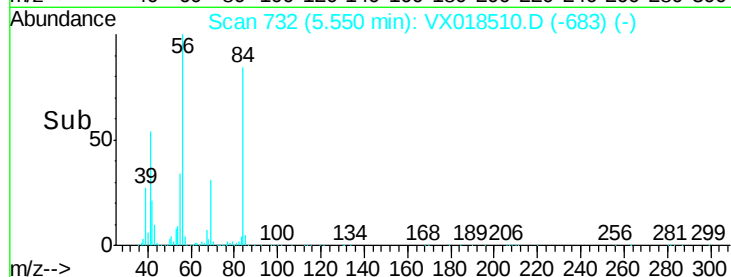
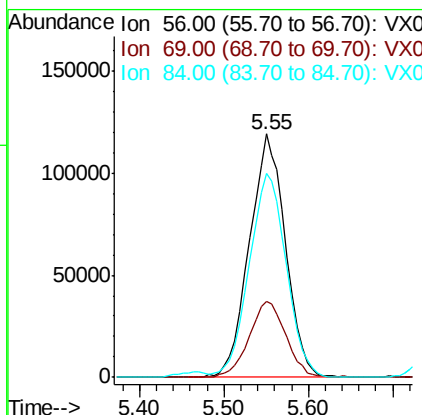
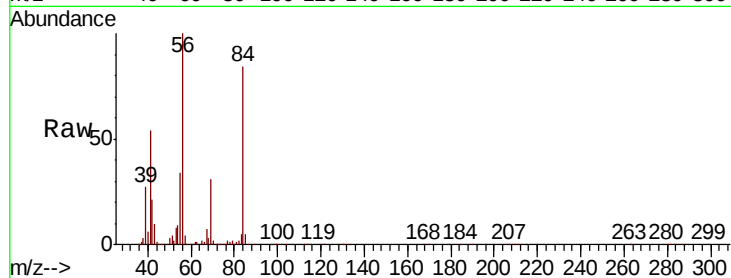




#29
Cyclohexane
Concen: 50.000 ug/L
RT: 5.55 min Scan# 732
Delta R.T. 0.00 min
Lab File: VX018510.D
Acq: 21 Sep 2020 12:47

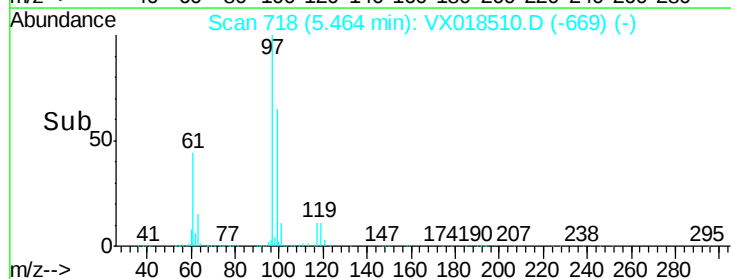
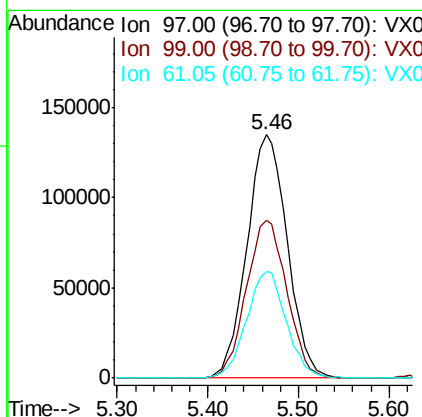
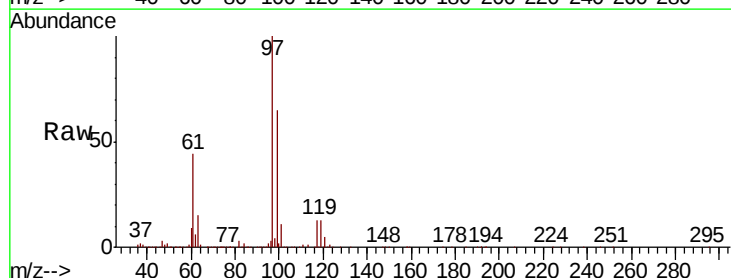
Instrument :
MSVOA_X
ClientSampleId :
VSTD050403

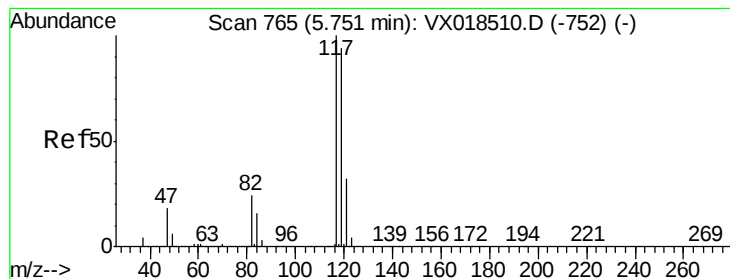
Tot Ion	Ratio	Lower	Upper
56	100		
69	31.5	25.2	37.8
84	86.4	69.1	103.7



#30
1,1,1-Trichloroethane
Concen: 50.000 ug/L
RT: 5.46 min Scan# 718
Delta R.T. 0.00 min
Lab File: VX018510.D
Acq: 21 Sep 2020 12:47

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.9	77.9
61	43.0	34.4	51.6





#31

Carbon tetrachloride

Concen: 50.000 ug/L

RT: 5.75 min Scan# 765

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

Instrument :

MSVOA_X

ClientSampleId :

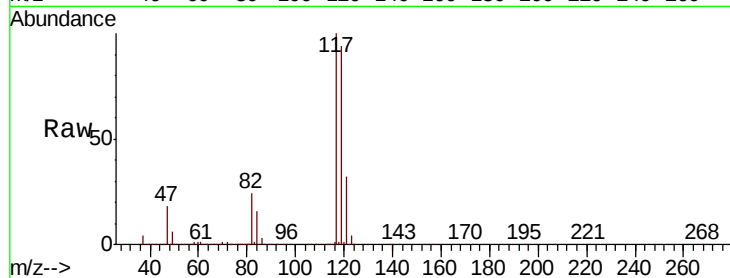
VSTD050403

Tot Ion:117 Resp: 380885

Ion Ratio Lower Upper

117 100

119 96.9 77.5 116.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

150000

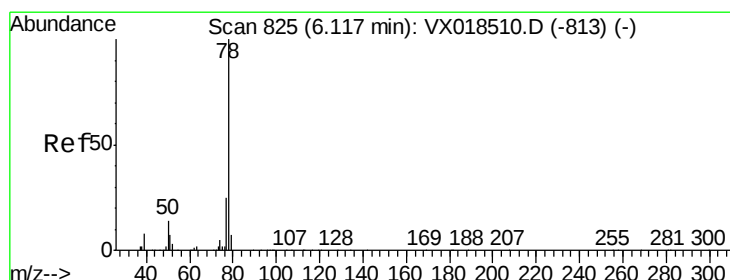
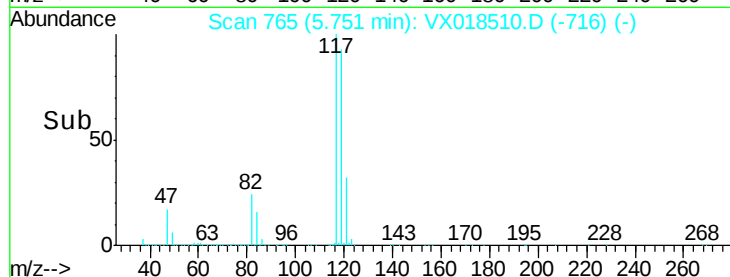
100000

50000

0

5.60 5.70 5.80 5.90

Time-->



#33

Benzene

Concen: 50.000 ug/L

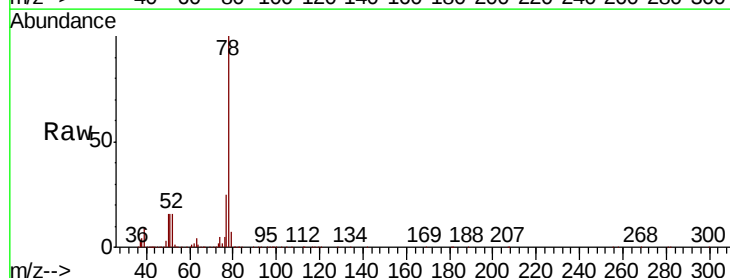
RT: 6.12 min Scan# 825

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

Tgt Ion: 78 Resp: 884737



Abundance Ion 78.00 (77.70 to 78.70): VX0

400000

300000

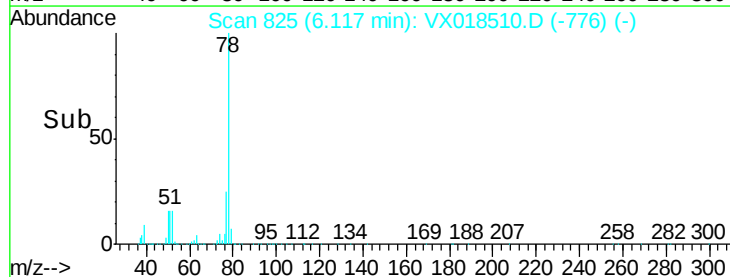
200000

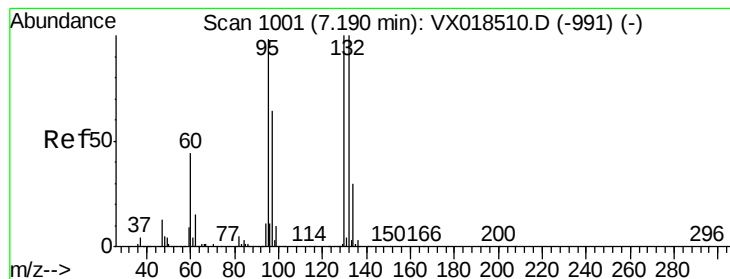
100000

0

6.00 6.10 6.20

Time-->





#34

Trichloroethene

Concen: 50.000 ug/L

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

Instrument :

MSVOA_X

ClientSampleId :

VSTD050403

Tot Ion: 95 Resp: 241456

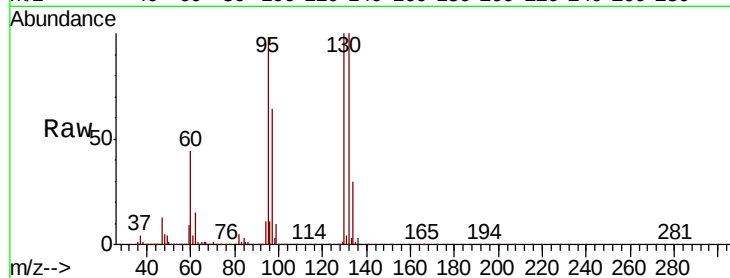
Ion Ratio Lower Upper

95 100

97 65.7 46.0 85.4

132 102.4 71.7 133.1

130 101.9 71.3 132.5

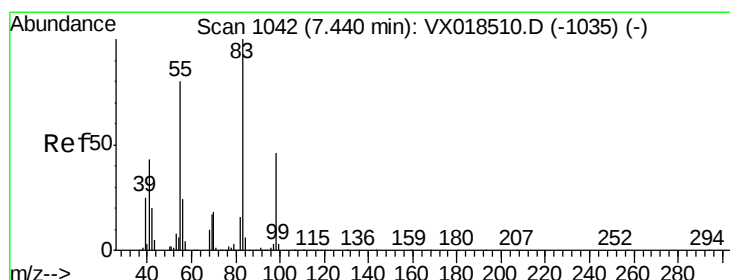
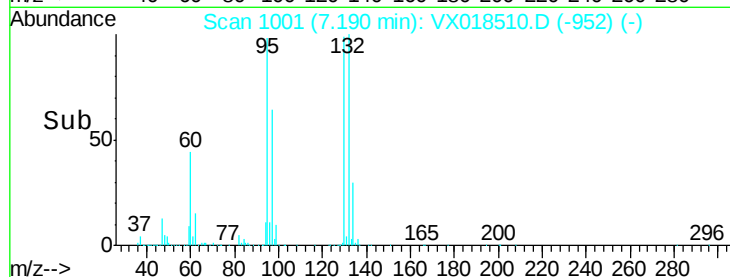
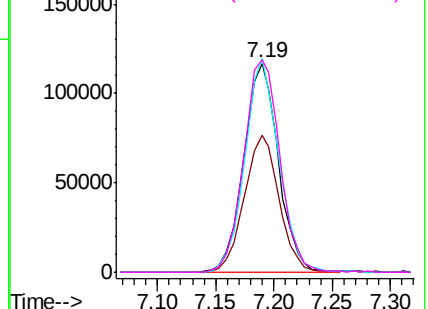


Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 97.00 (96.70 to 97.70): VX0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 50.000 ug/L

RT: 7.44 min Scan# 1042

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

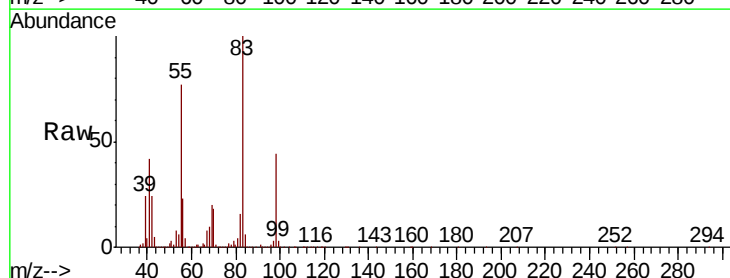
Tgt Ion: 83 Resp: 362781

Ion Ratio Lower Upper

83 100

55 77.0 61.6 92.4

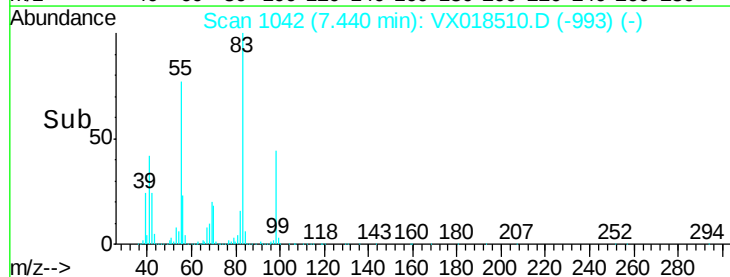
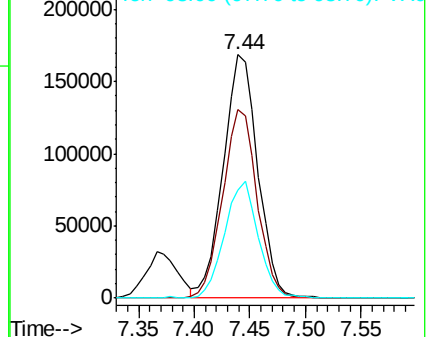
98 46.2 37.0 55.4

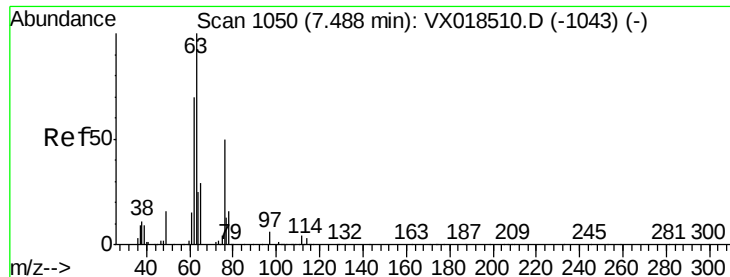


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

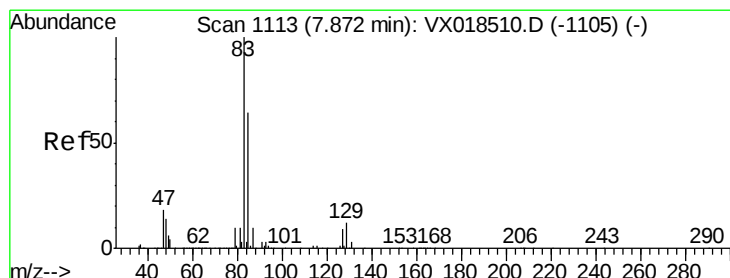
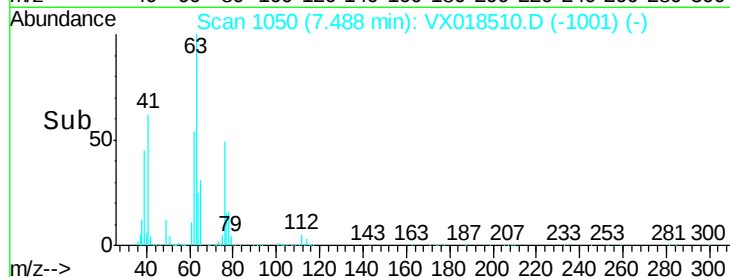
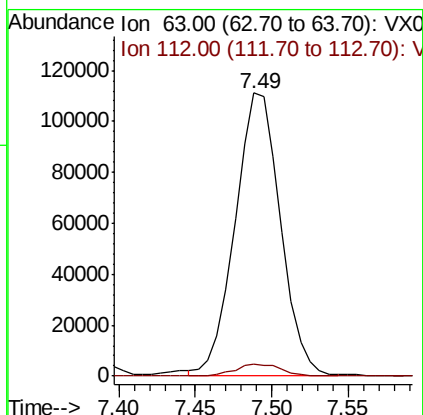
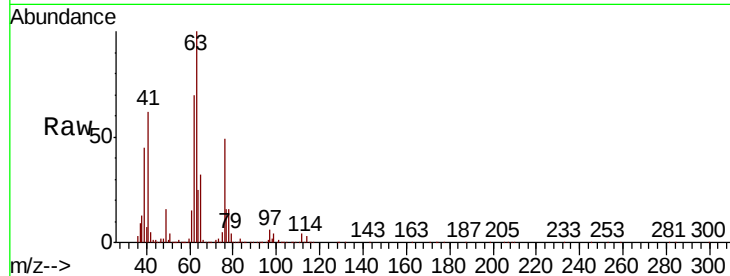




#37
 1,2-Dichloropropane
 Concen: 50.000 ug/L
 RT: 7.49 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VX018510.D
 Acq: 21 Sep 2020 12:47

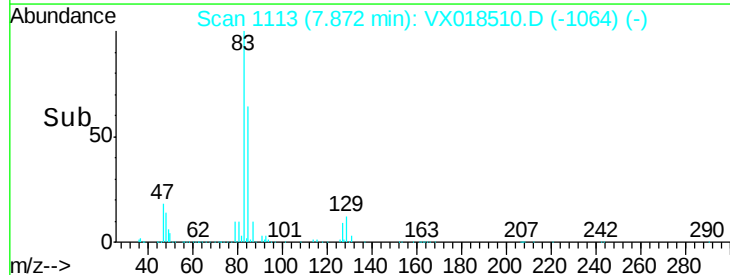
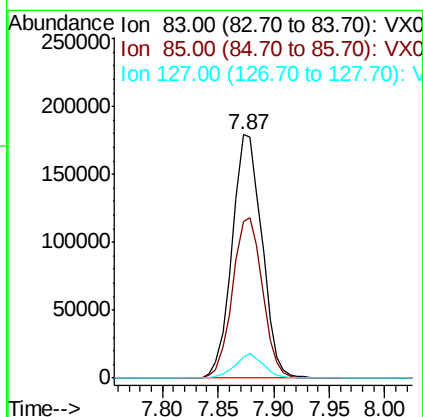
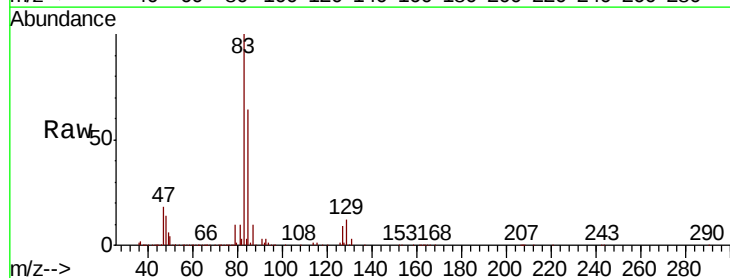
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTD050403

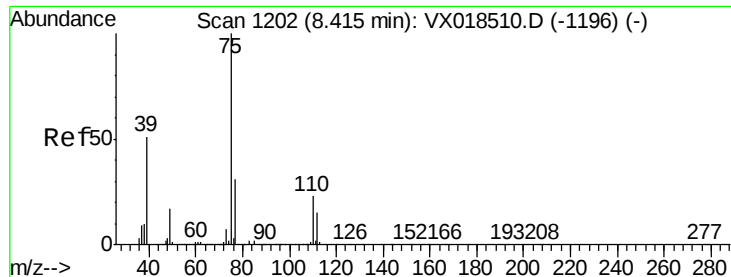
Tot Ion: 63 Resp: 229023
 Ion Ratio Lower Upper
 63 100
 112 4.4 3.5 5.3



#38
 Bromodichloromethane
 Concen: 50.000 ug/L
 RT: 7.87 min Scan# 1113
 Delta R.T. 0.00 min
 Lab File: VX018510.D
 Acq: 21 Sep 2020 12:47

Tgt Ion: 83 Resp: 333013
 Ion Ratio Lower Upper
 83 100
 85 64.3 45.0 83.6
 127 8.6 6.9 10.3

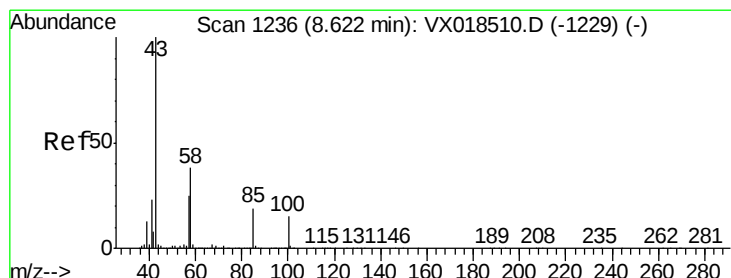
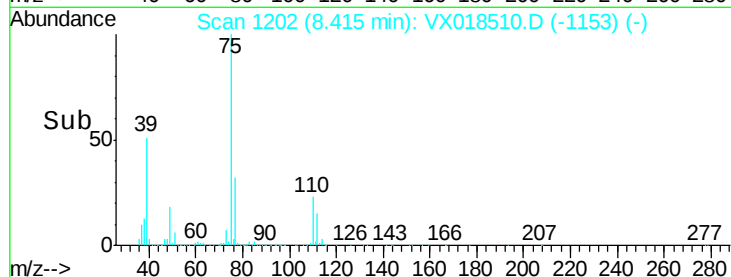
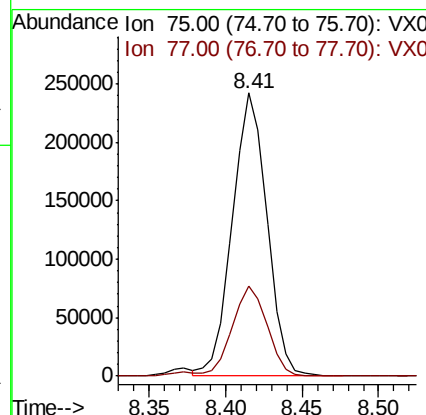
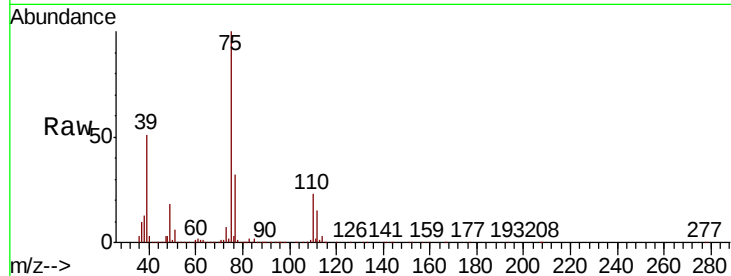




#39
 cis-1,3-Dichloropropene
 Concen: 50.000 ug/L
 RT: 8.41 min Scan# 1202
 Delta R.T. 0.00 min
 Lab File: VX018510.D
 Acq: 21 Sep 2020 12:47

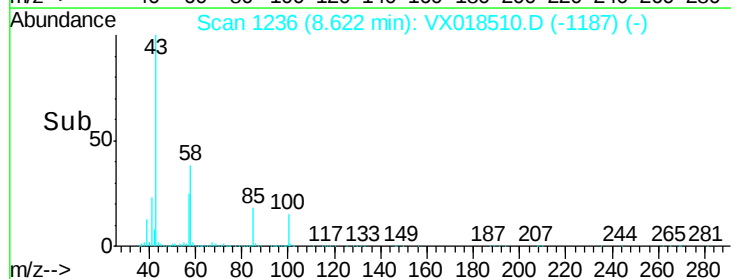
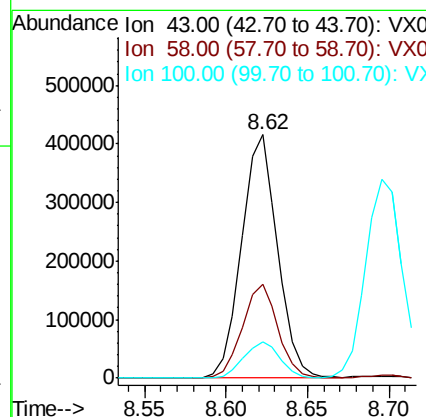
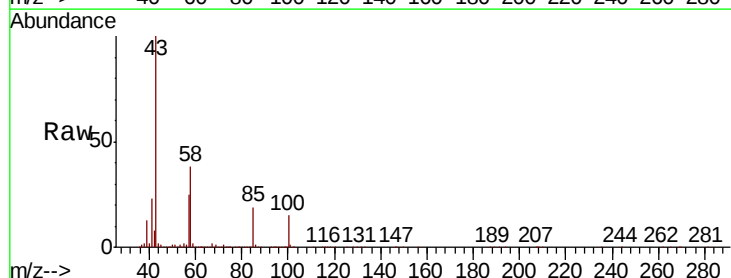
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTD050403

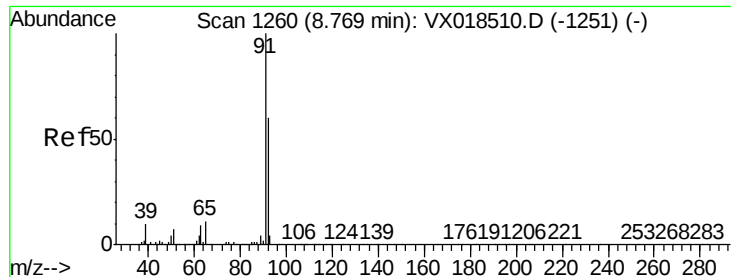
Tot Ion: 75 Resp: 380084
 Ion Ratio Lower Upper
 75 100
 77 31.8 22.3 41.3



#40
 4-Methyl-2-pentanone
 Concen: 100.000 ug/L
 RT: 8.62 min Scan# 1236
 Delta R.T. 0.00 min
 Lab File: VX018510.D
 Acq: 21 Sep 2020 12:47

Tgt Ion: 43 Resp: 637667
 Ion Ratio Lower Upper
 43 100
 58 38.2 30.6 45.8
 100 15.2 12.2 18.2





#42

Toluene

Concen: 50.000 ug/L

RT: 8.77 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

Instrument :

MSVOA_X

ClientSampleId :

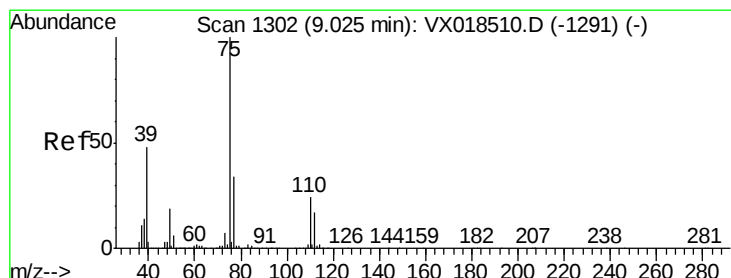
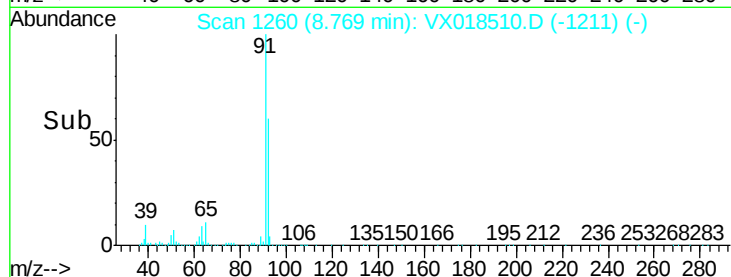
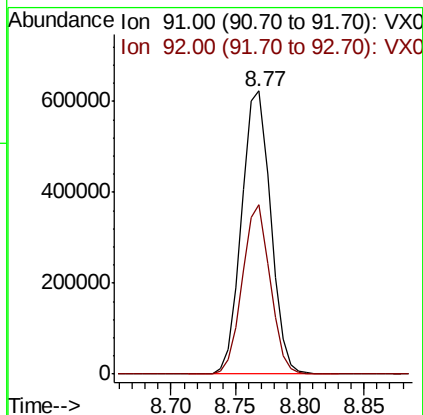
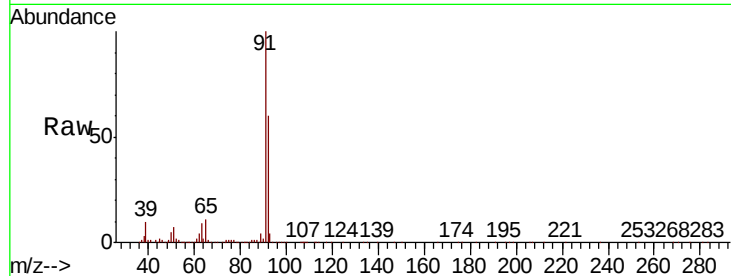
VSTD050403

Tot Ion: 91 Resp: 971013

Ion Ratio Lower Upper

91 100

92 59.8 41.9 77.7



#44

trans-1,3-Dichloropropene

Concen: 50.000 ug/L

RT: 9.02 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VX018510.D

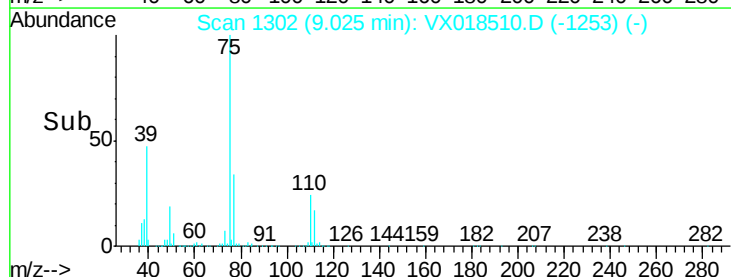
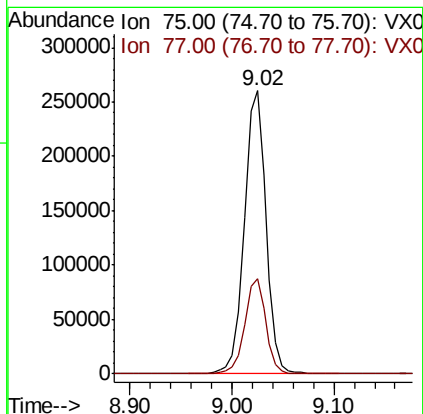
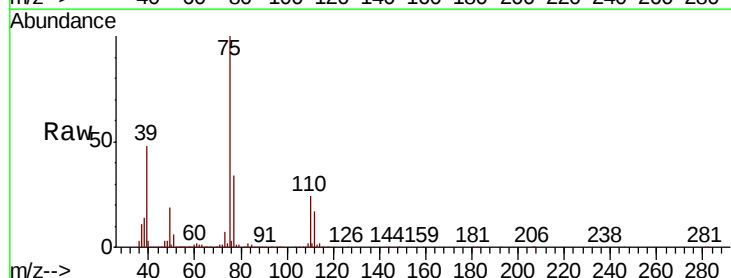
Acq: 21 Sep 2020 12:47

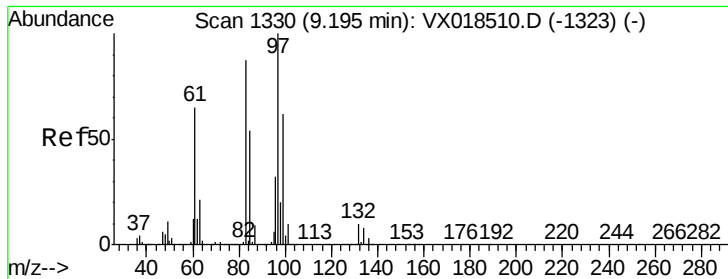
Tgt Ion: 75 Resp: 383297

Ion Ratio Lower Upper

75 100

77 33.7 23.6 43.8

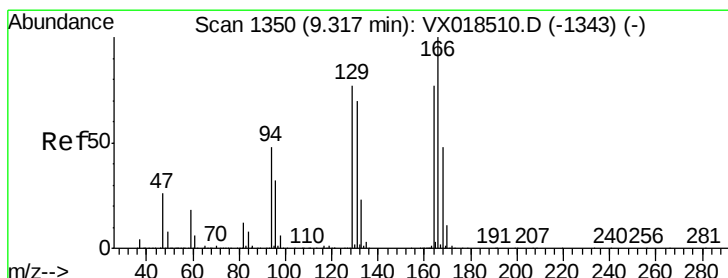
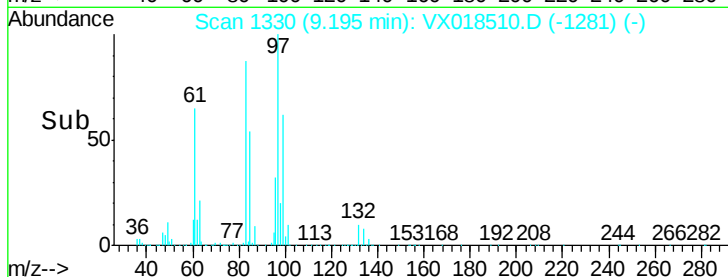
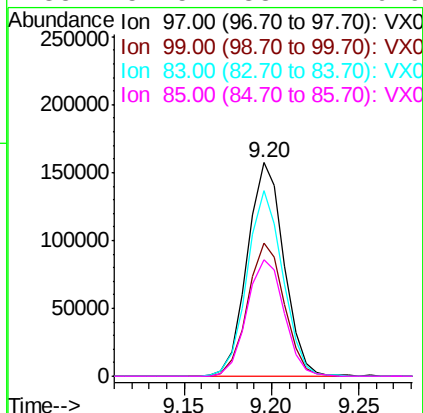
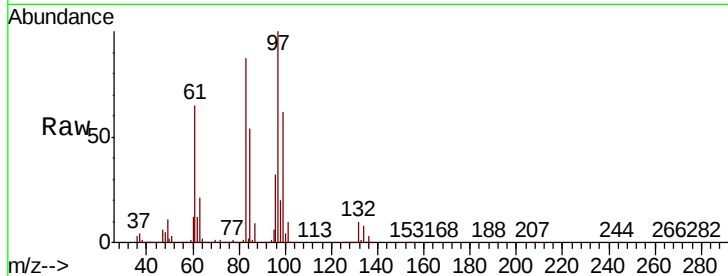




#45
 1,1,2-Trichloroethane
 Concen: 50.000 ug/L
 RT: 9.20 min Scan# 1330
 Delta R.T. 0.00 min
 Lab File: VX018510.D
 Acq: 21 Sep 2020 12:47

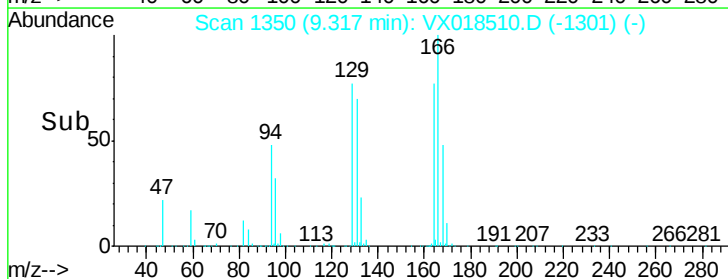
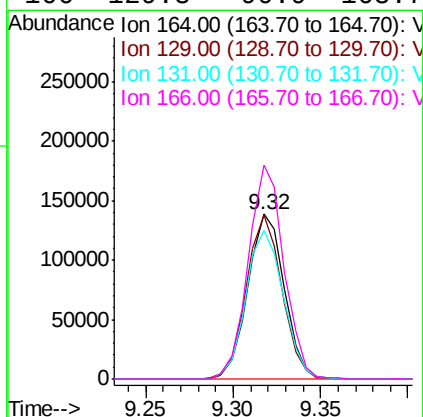
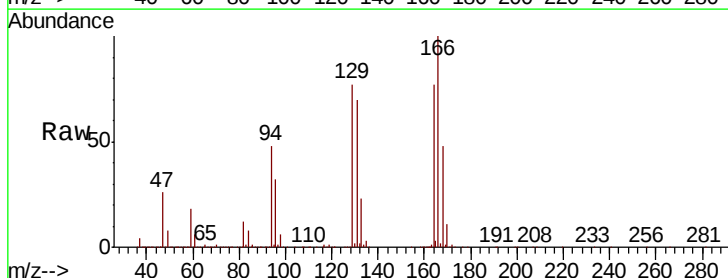
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTD050403

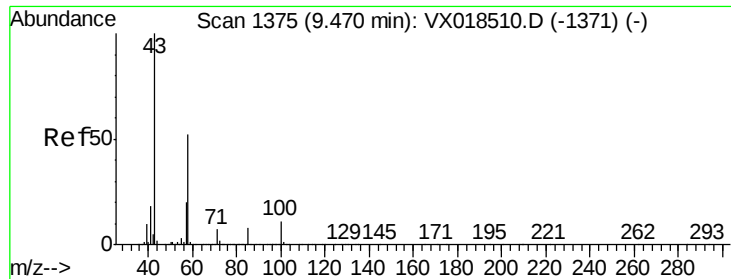
Tot Ion:	97	Resp:	229167
Ion	Ratio	Lower	Upper
97	100		
99	62.2	43.5	80.9
83	86.9	60.8	113.0
85	54.5	38.1	70.9



#46
 Tetrachloroethene
 Concen: 50.000 ug/L
 RT: 9.32 min Scan# 1350
 Delta R.T. 0.00 min
 Lab File: VX018510.D
 Acq: 21 Sep 2020 12:47

Tgt Ion:	164	Resp:	200988
Ion	Ratio	Lower	Upper
164	100		
129	99.6	69.7	129.5
131	90.6	63.4	117.8
166	129.8	90.9	168.7

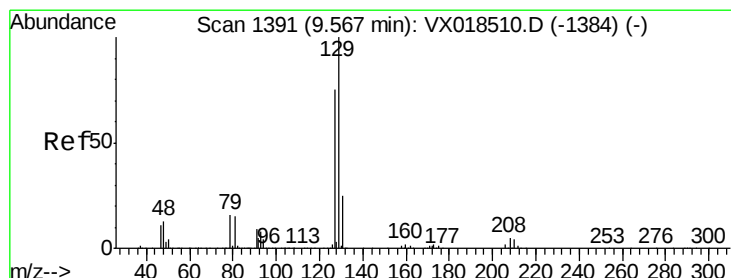
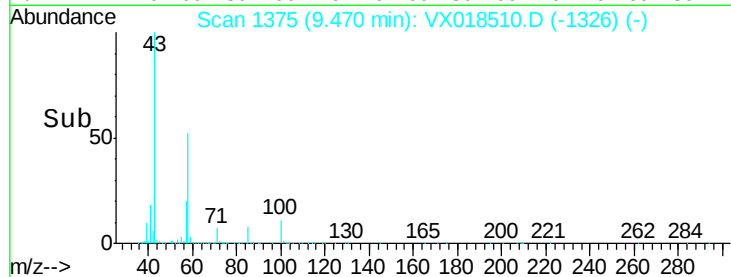
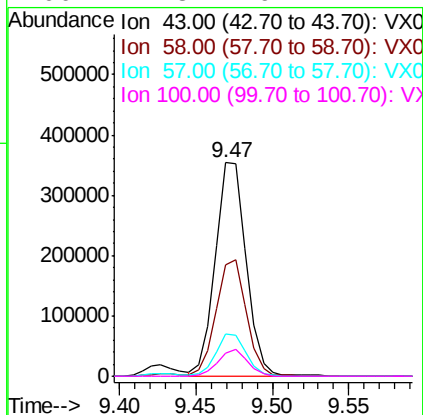
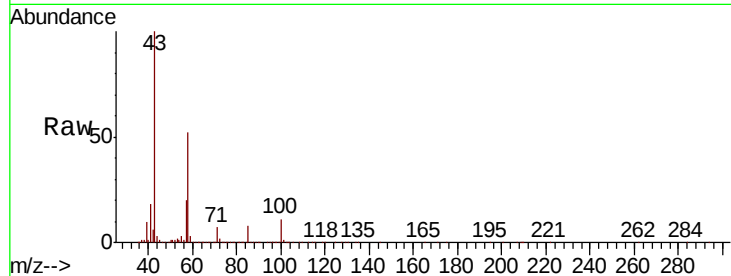




#48
2-Hexanone
Concen: 100.000 ug/L
RT: 9.47 min Scan# 1375
Delta R.T. 0.00 min
Lab File: VX018510.D
Acq: 21 Sep 2020 12:47

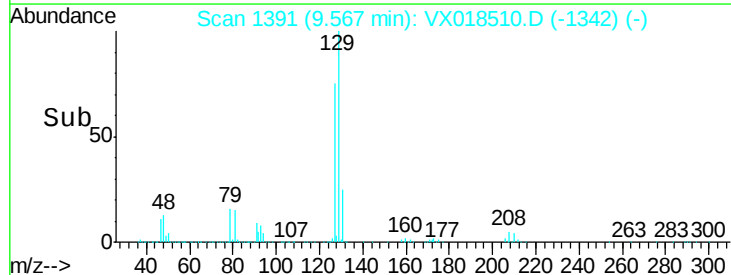
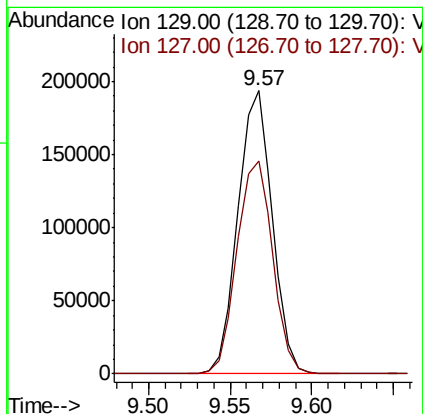
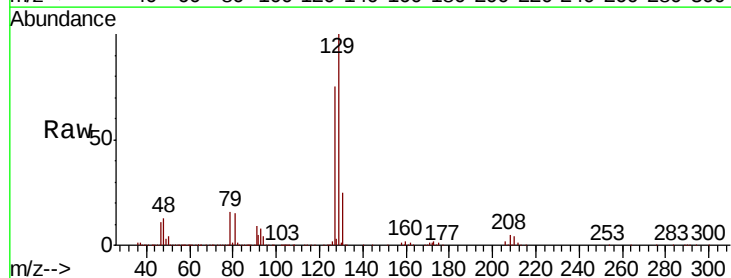
Instrument :
MSVOA_X
ClientSampleId :
VSTD050403

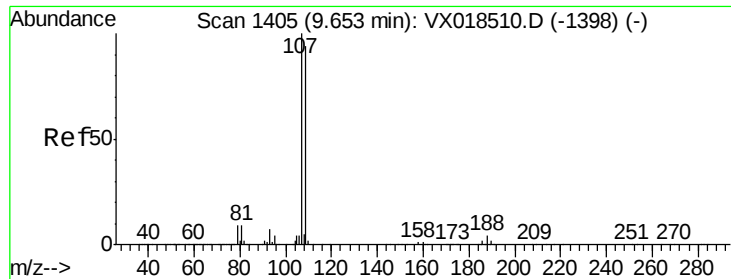
Tot Ion:	43	Resp:	495769
Ion	Ratio	Lower	Upper
43	100		
58	53.8	43.0	64.6
57	19.5	15.6	23.4
100	11.8	9.4	14.2



#49
Dibromochloromethane
Concen: 50.000 ug/L
RT: 9.57 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VX018510.D
Acq: 21 Sep 2020 12:47

Tgt Ion:	129	Resp:	285323
Ion	Ratio	Lower	Upper
129	100		
127	75.1	52.6	97.6

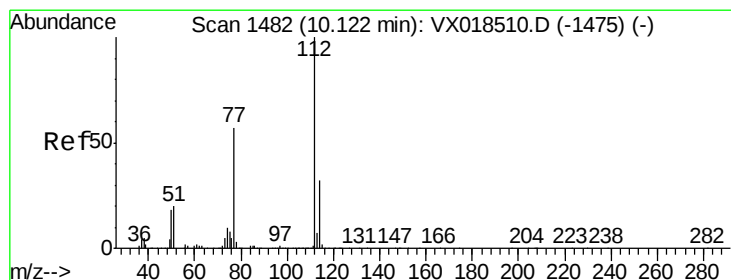
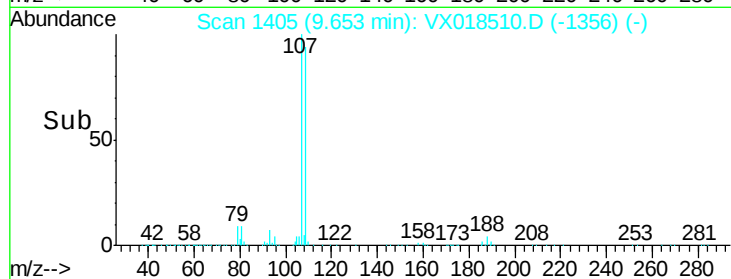
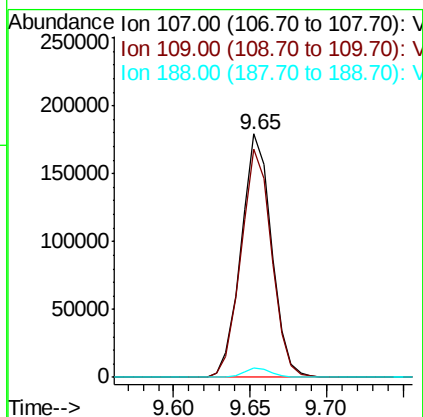
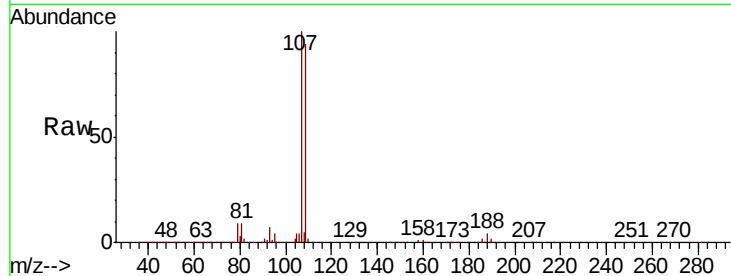




#50
 1,2-Dibromoethane
 Concen: 50.000 ug/L
 RT: 9.65 min Scan# 1405
 Delta R.T. 0.00 min
 Lab File: VX018510.D
 Acq: 21 Sep 2020 12:47

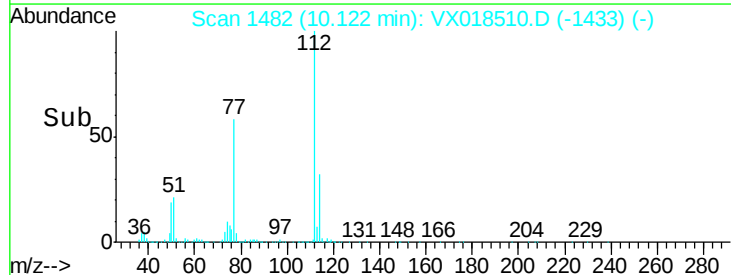
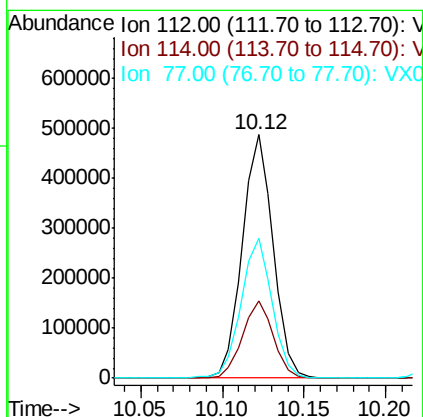
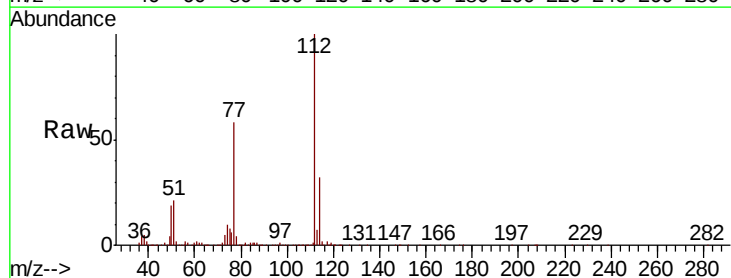
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTD050403

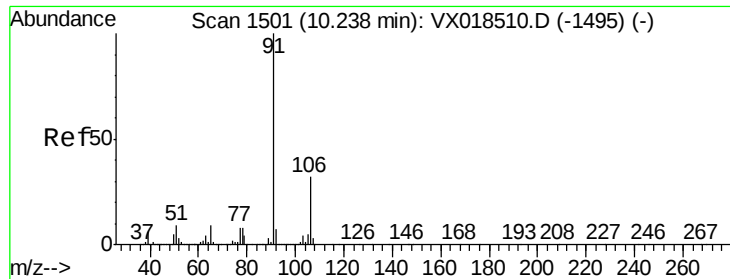
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.8	65.7	121.9
188	3.7	3.0	4.4



#51
 Chlorobenzene
 Concen: 50.000 ug/L
 RT: 10.12 min Scan# 1482
 Delta R.T. 0.00 min
 Lab File: VX018510.D
 Acq: 21 Sep 2020 12:47

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.7	22.2	41.2
77	57.6	46.1	69.1





#52

Ethylbenzene

Concen: 50.000 ug/L

RT: 10.24 min Scan# 1501

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

Instrument :

MSVOA_X

ClientSampleId :

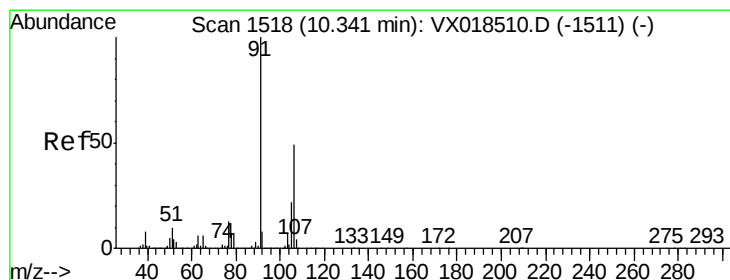
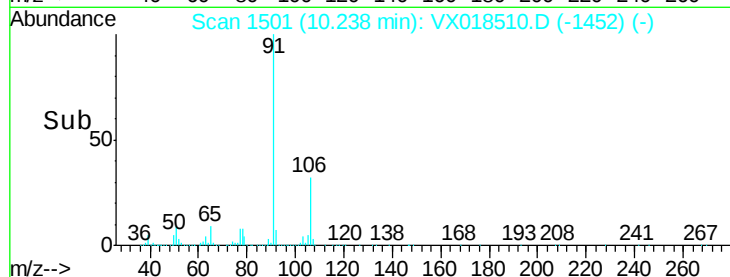
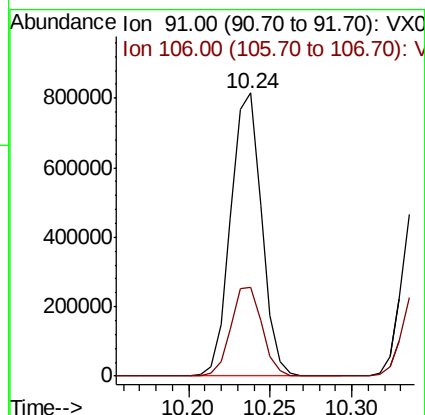
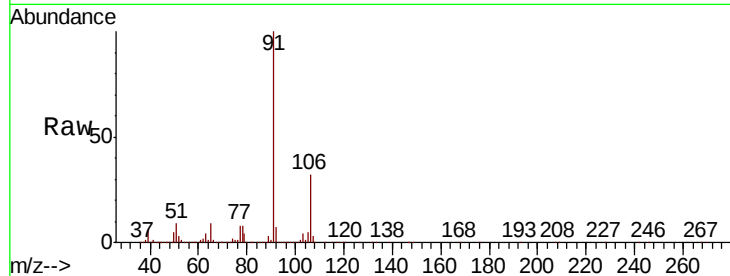
VSTD050403

Tot Ion: 91 Resp: 1074371

Ion Ratio Lower Upper

91 100

106 31.5 22.0 41.0



#53

m,p-Xylene

Concen: 50.000 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX018510.D

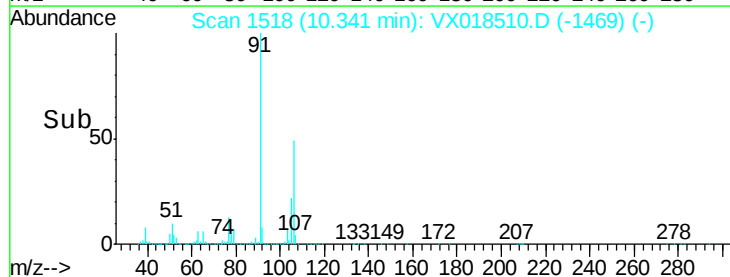
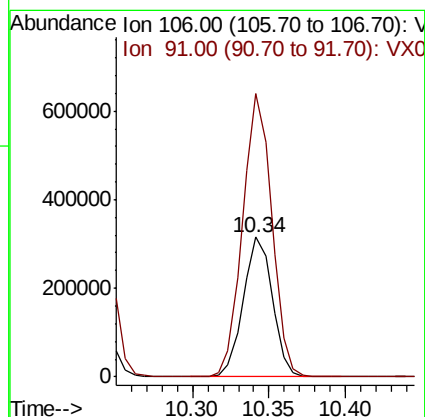
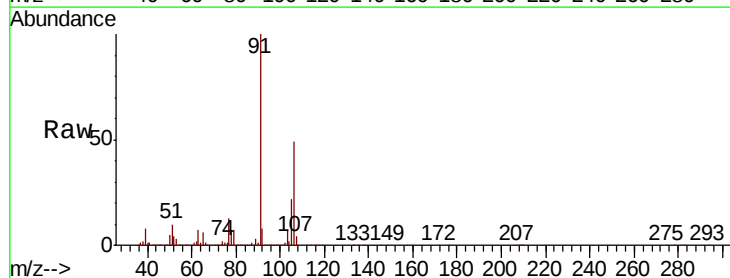
Acq: 21 Sep 2020 12:47

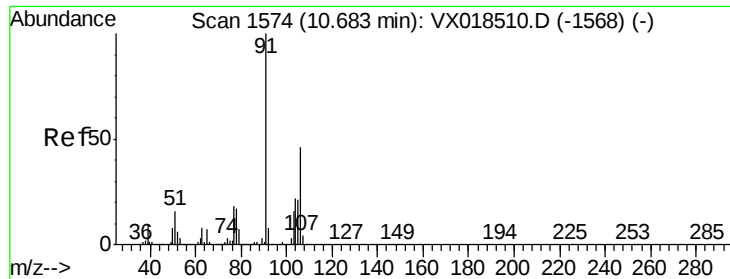
Tgt Ion: 106 Resp: 419000

Ion Ratio Lower Upper

106 100

91 203.1 142.2 264.0

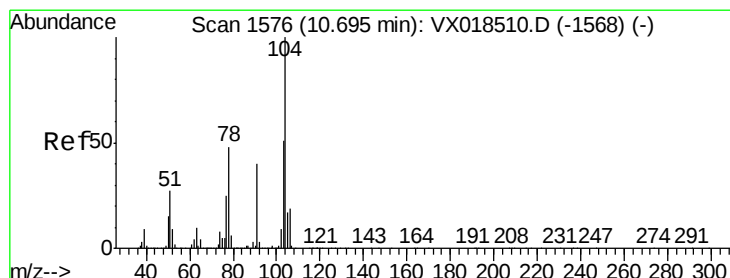
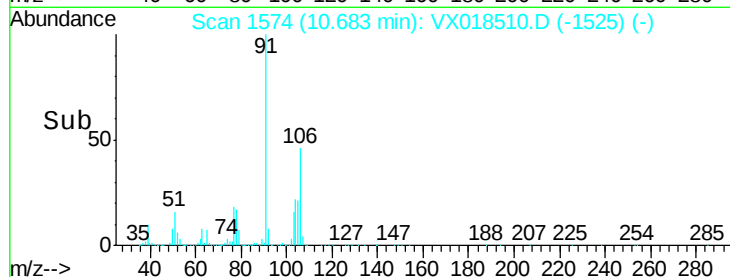
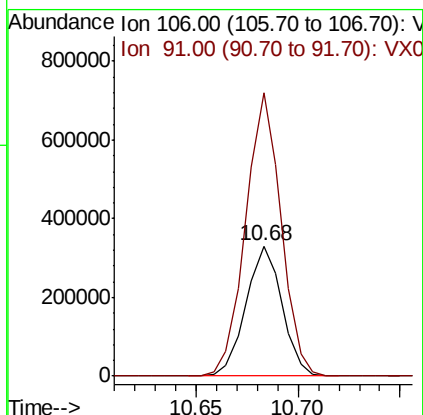
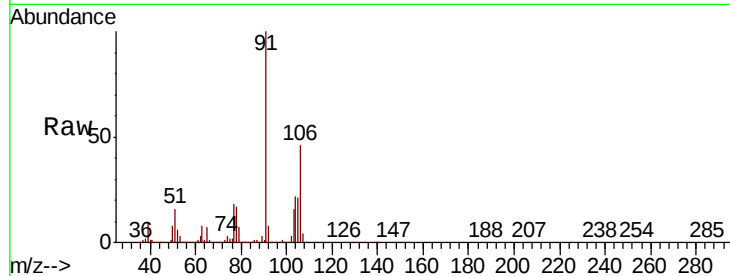




#54
o-Xylene
Concen: 50.000 ug/L
RT: 10.68 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VX018510.D
Acq: 21 Sep 2020 12:47

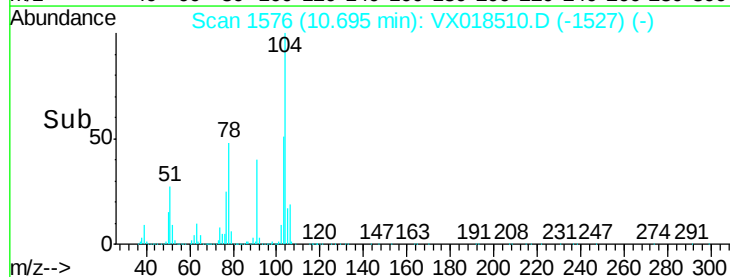
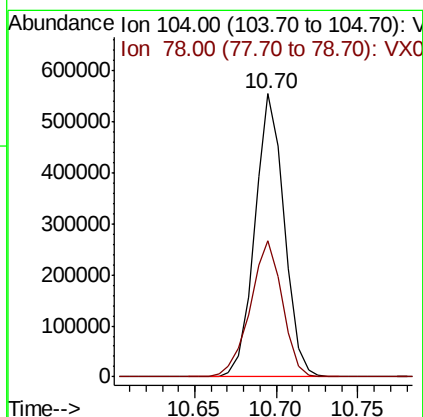
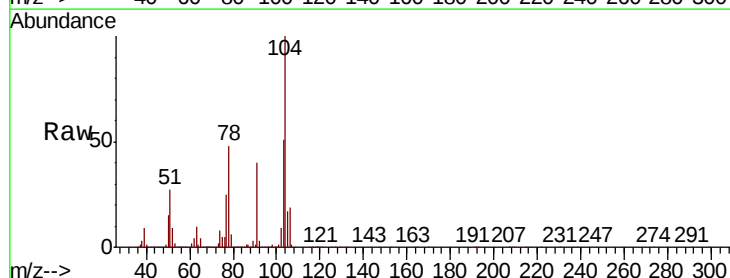
Instrument :
MSVOA_X
ClientSampleId :
VSTD050403

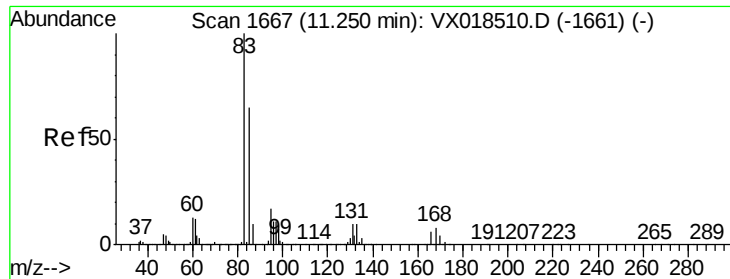
Tot Ion:106 Resp: 405738
Ion Ratio Lower Upper
106 100
91 217.4 152.2 282.6



#55
Styrene
Concen: 50.000 ug/L
RT: 10.70 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VX018510.D
Acq: 21 Sep 2020 12:47

Tgt Ion:104 Resp: 692781
Ion Ratio Lower Upper
104 100
78 47.9 33.5 62.3





#57

1,1,2,2-Tetrachloroethane

Concen: 50.000 ug/L

RT: 11.25 min Scan# 1667

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

Instrument :

MSVOA_X

ClientSampleId :

VSTD050403

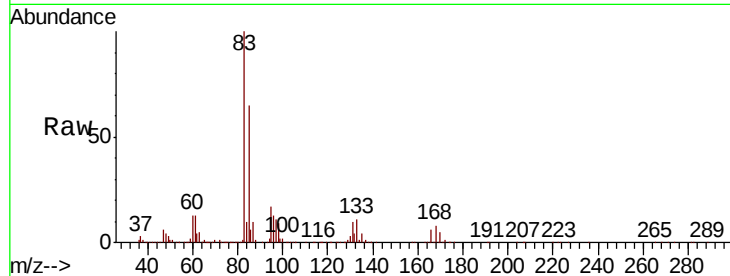
Tot Ion: 83 Resp: 347178

Ion Ratio Lower Upper

83 100

85 65.2 45.6 84.8

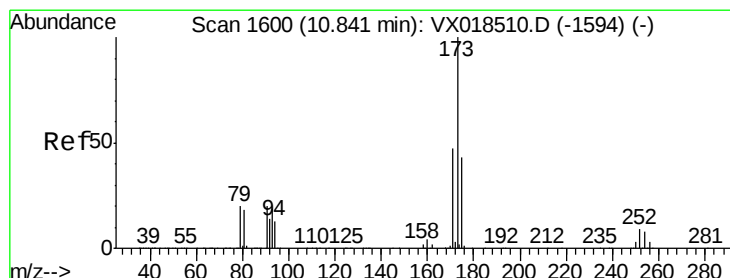
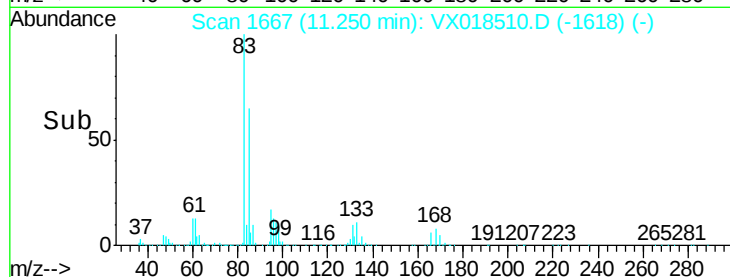
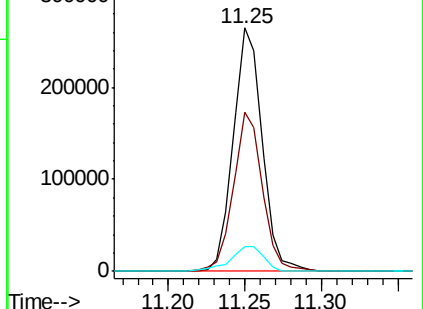
131 10.0 8.0 12.0



Abundance Ion 83.00 (82.70 to 83.70): VX018510.D (-1661) (-)

Ion 85.00 (84.70 to 85.70): VX018510.D (-1661) (-)

Ion 131.00 (130.70 to 131.70): VX018510.D (-1661) (-)



#59

Bromoform

Concen: 50.000 ug/L

RT: 10.84 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

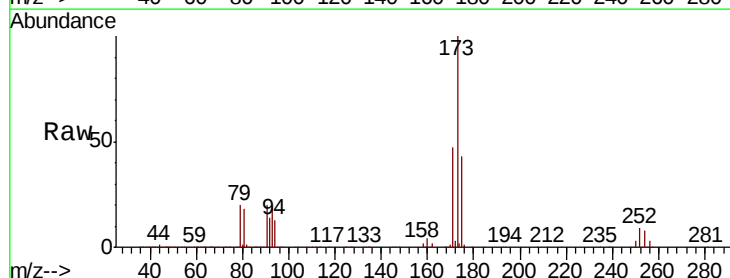
Tgt Ion: 173 Resp: 216681

Ion Ratio Lower Upper

173 100

175 47.1 37.7 56.5

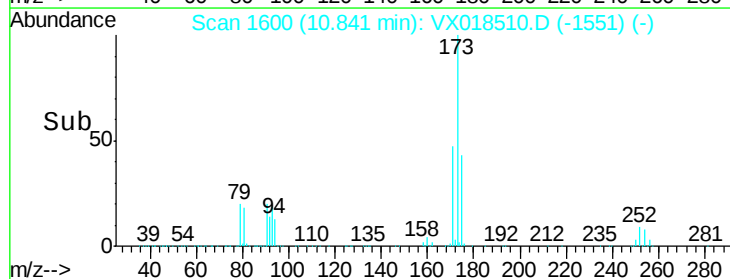
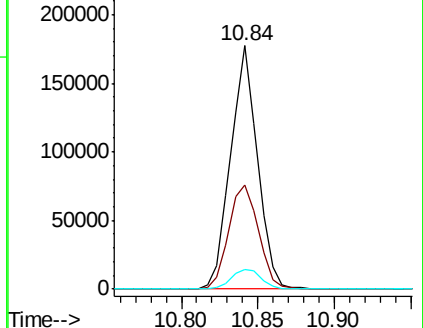
254 9.0 7.2 10.8

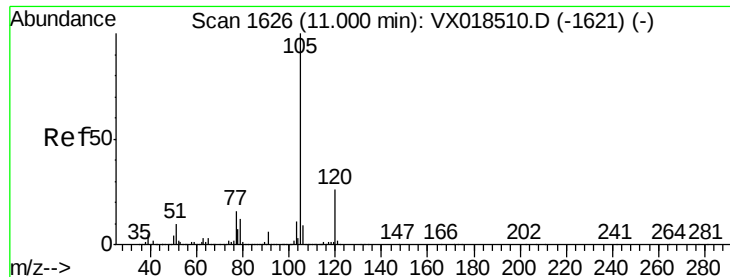


Abundance Ion 173.00 (172.70 to 173.70): VX018510.D (-1594) (-)

Ion 175.00 (174.70 to 175.70): VX018510.D (-1594) (-)

Ion 254.00 (253.70 to 254.70): VX018510.D (-1594) (-)





#60

Isopropylbenzene

Concen: 50.000 ug/L

RT: 11.00 min Scan# 1626

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

Instrument :

MSVOA_X

ClientSampled :

VSTD050403

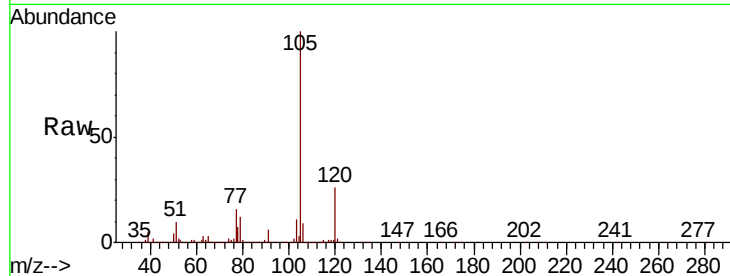
Tot Ion:105 Resp: 1067995

Ion Ratio Lower Upper

105 100

120 27.3 21.8 32.8

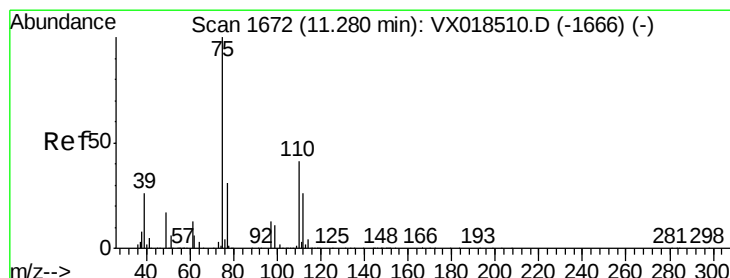
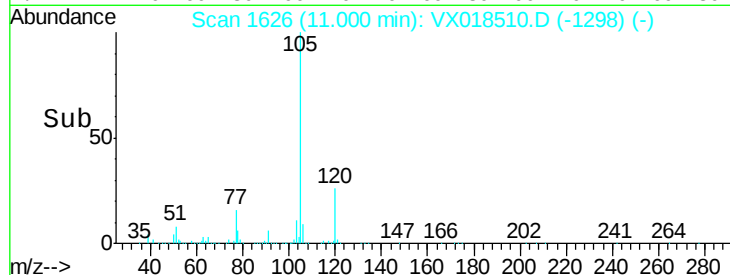
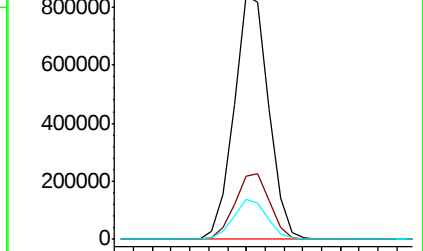
77 15.9 12.7 19.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#61

1,2,3-Trichloropropane

Concen: 50.000 ug/L

RT: 11.28 min Scan# 1672

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

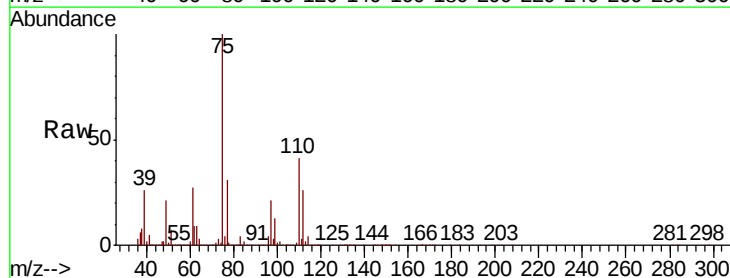
Tgt Ion: 75 Resp: 284889

Ion Ratio Lower Upper

75 100

77 32.5 26.0 39.0

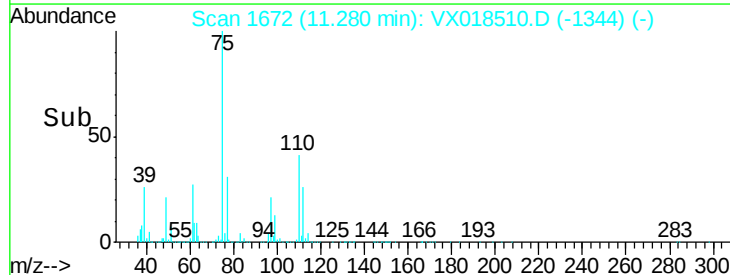
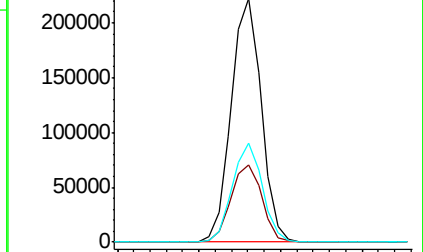
110 40.5 32.4 48.6

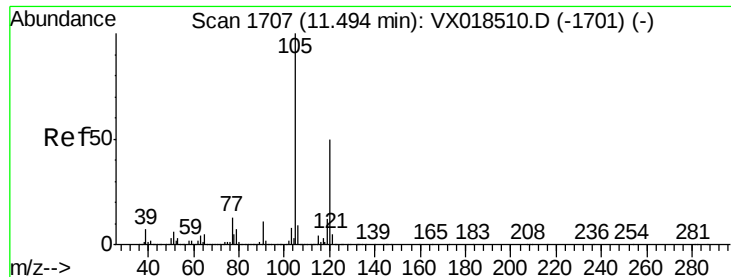


Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

Ion 110.00 (109.70 to 110.70): V





#62

1,3,5-Trimethylbenzene

Concen: 50.000 ug/L

RT: 11.49 min Scan# 1707

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

Instrument :

MSVOA_X

ClientSampleId :

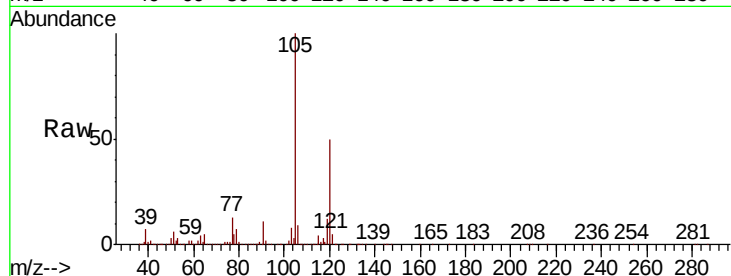
VSTD050403

Tot Ion:105 Resp: 885588

Ion Ratio Lower Upper

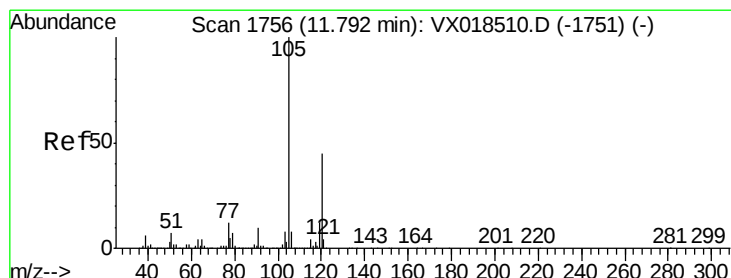
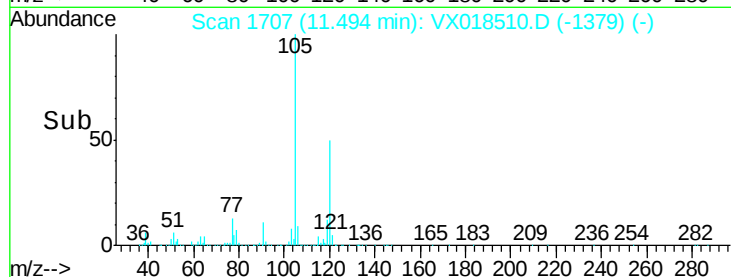
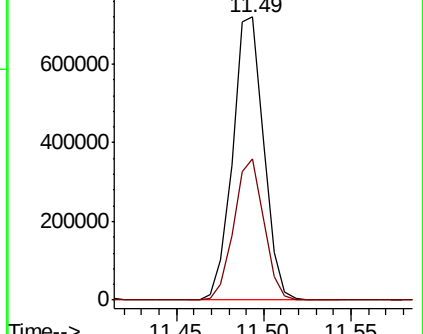
105 100

120 48.3 38.6 58.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 50.000 ug/L

RT: 11.79 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VX018510.D

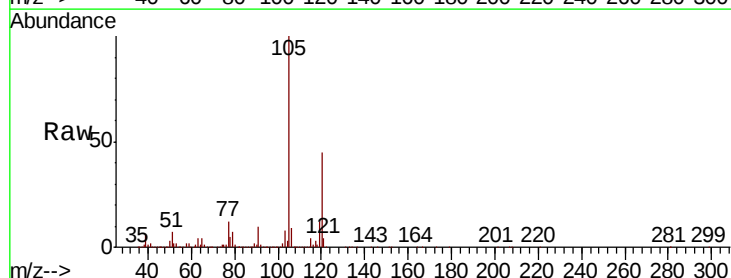
Acq: 21 Sep 2020 12:47

Tgt Ion:105 Resp: 909479

Ion Ratio Lower Upper

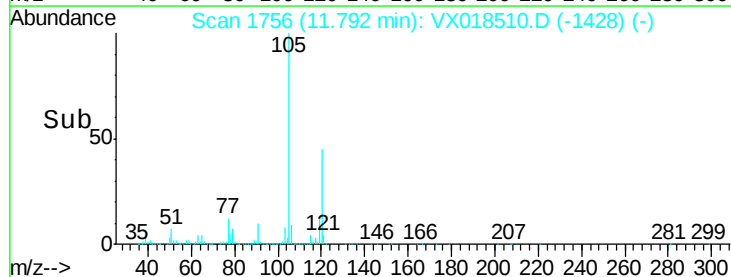
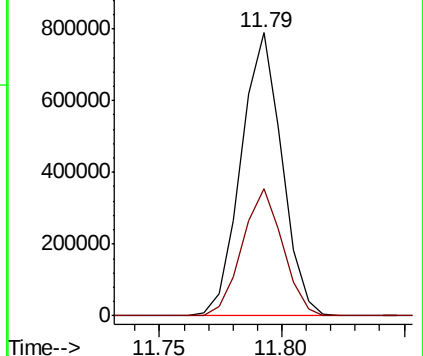
105 100

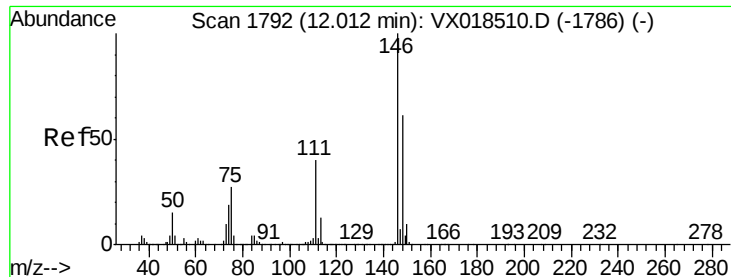
120 44.8 35.8 53.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#64

1,3-Dichlorobenzene

Concen: 50.000 ug/L

RT: 12.01 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

Instrument :

MSVOA_X

ClientSampleId :

VSTD050403

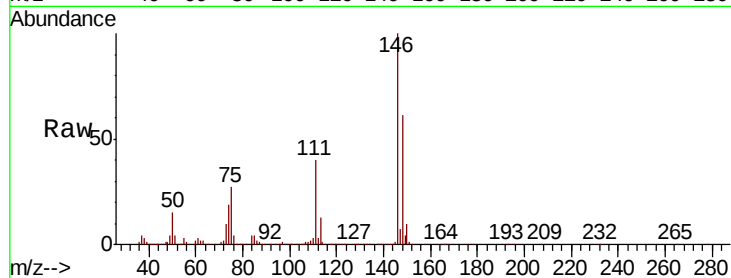
Tot Ion:146 Resp: 509981

Ion Ratio Lower Upper

146 100

111 39.7 27.8 51.6

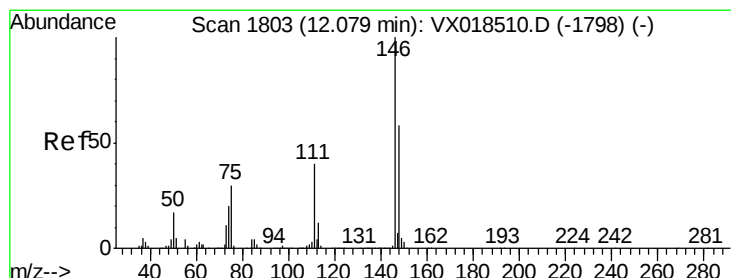
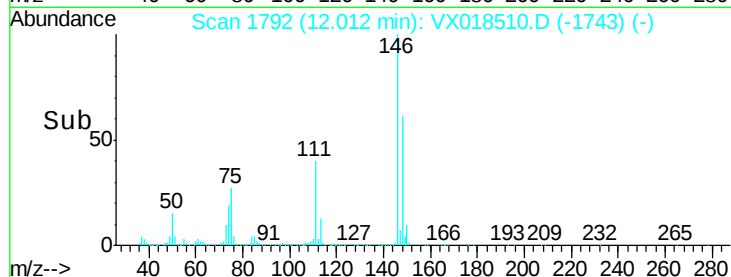
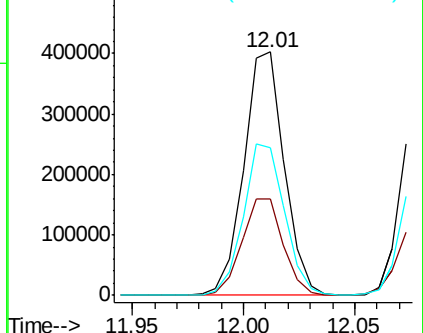
148 60.9 42.6 79.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,4-Dichlorobenzene

Concen: 50.000 ug/L

RT: 12.08 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

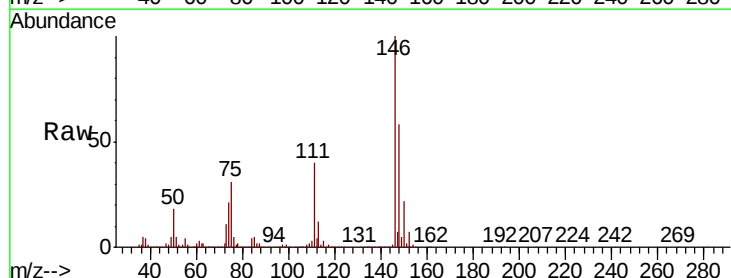
Tgt Ion:146 Resp: 517161

Ion Ratio Lower Upper

146 100

111 39.8 27.9 51.7

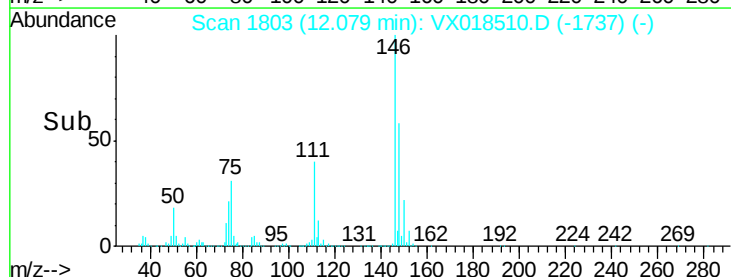
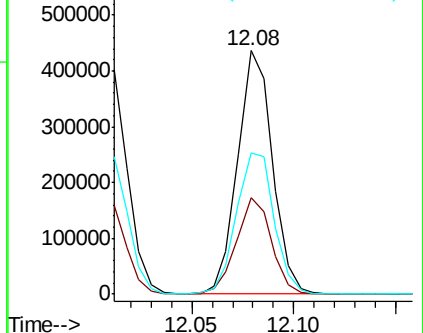
148 57.9 40.5 75.3

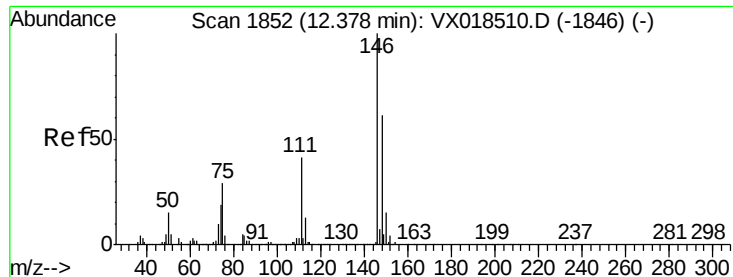


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

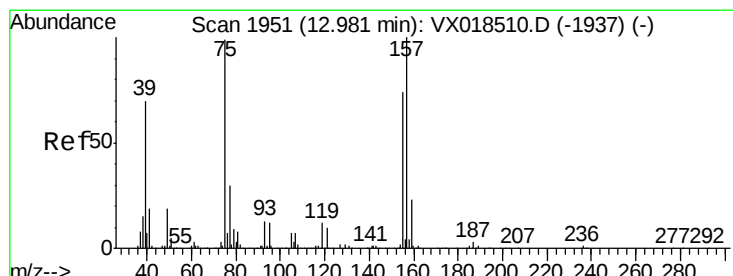
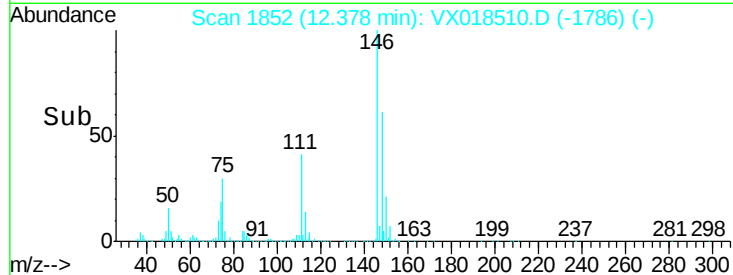
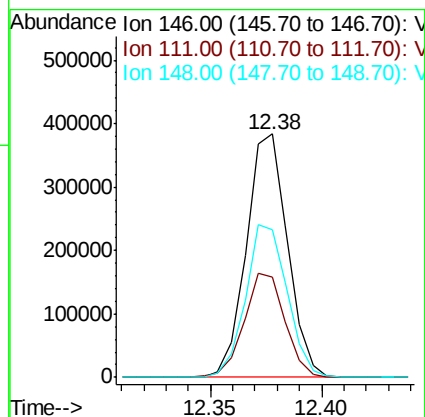
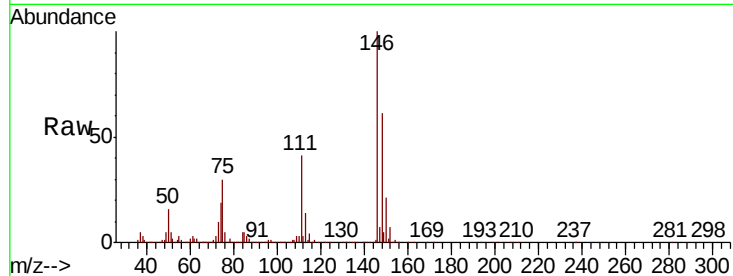




#67
 1,2-Dichlorobenzene
 Concen: 50.000 ug/L
 RT: 12.38 min Scan# 1852
 Delta R.T. 0.00 min
 Lab File: VX018510.D
 Acq: 21 Sep 2020 12:47

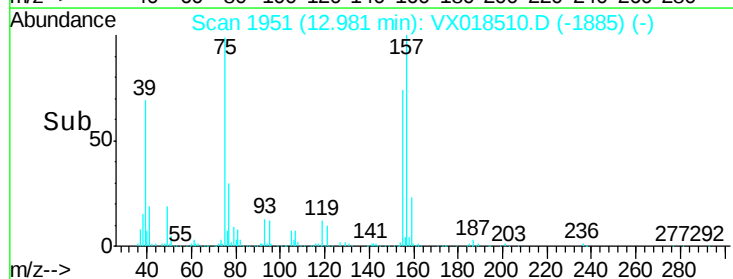
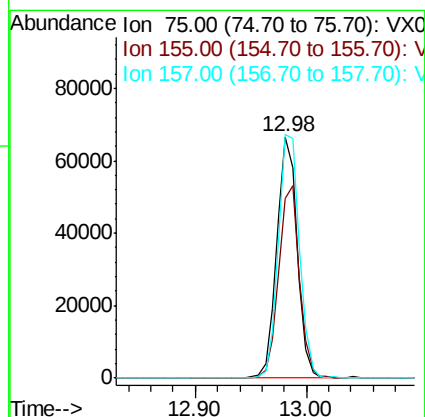
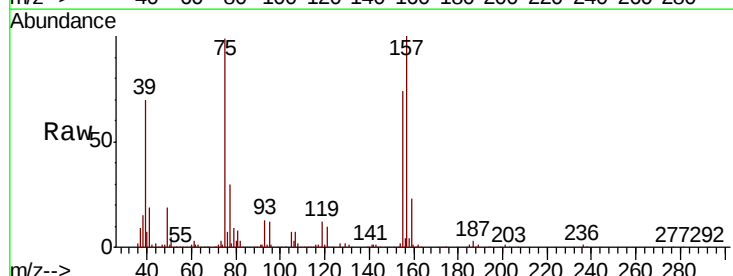
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTD050403

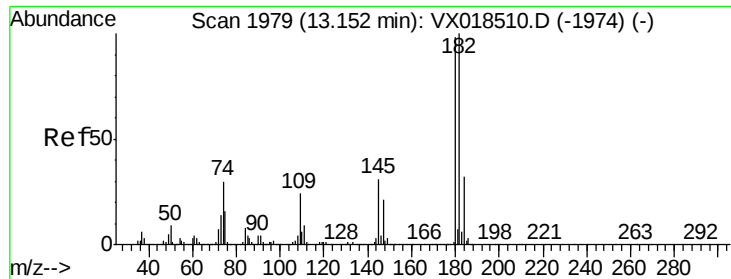
Tot Ion:146 Resp: 494082
 Ion Ratio Lower Upper
 146 100
 111 41.4 33.1 49.7
 148 60.5 48.4 72.6



#68
 1,2-Dibromo-3-chloropropane
 Concen: 50.000 ug/L
 RT: 12.98 min Scan# 1951
 Delta R.T. 0.00 min
 Lab File: VX018510.D
 Acq: 21 Sep 2020 12:47

Tgt Ion: 75 Resp: 85112
 Ion Ratio Lower Upper
 75 100
 155 74.2 59.4 89.0
 157 100.9 80.7 121.1

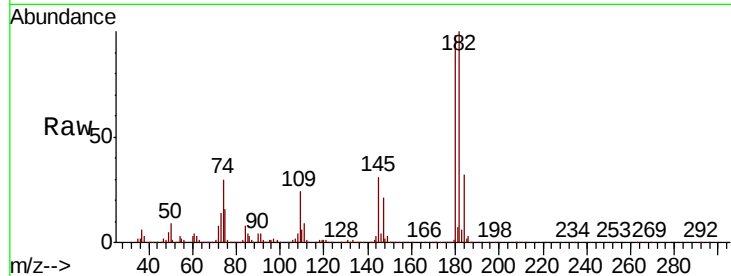




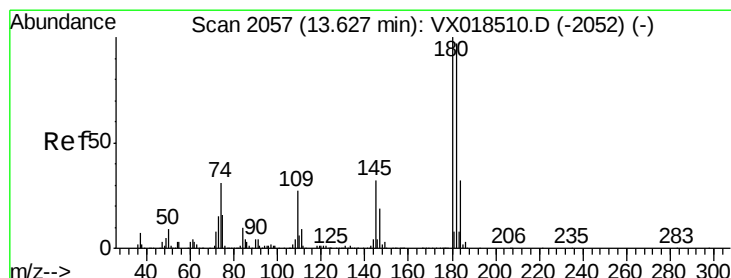
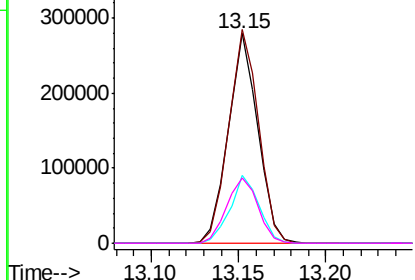
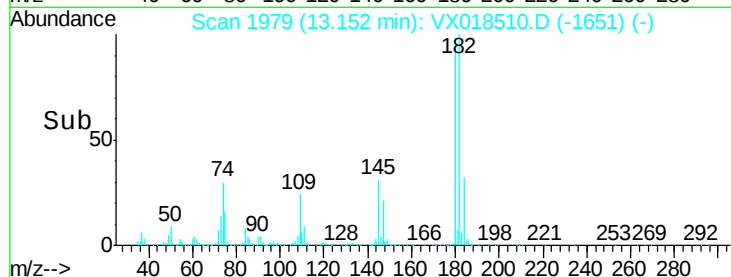
#69
 1,3,5-Trichlorobenzene
 Concen: 50.000 ug/L
 RT: 13.15 min Scan# 1979
 Delta R.T. 0.00 min
 Lab File: VX018510.D
 Acq: 21 Sep 2020 12:47

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTD050403

Tot Ion:180	Resp:	328939
Ion	Ratio	Lower Upper
180	100	
182	103.1	82.5 123.7
184	31.8	25.4 38.2
145	32.7	26.2 39.2

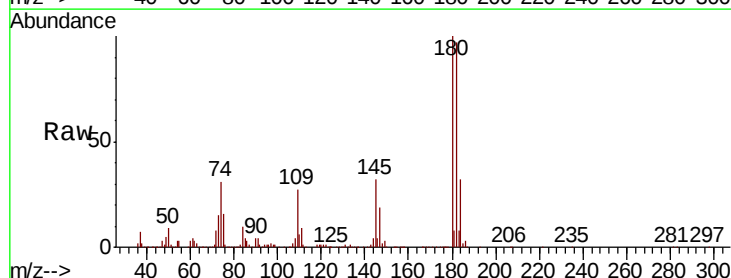


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

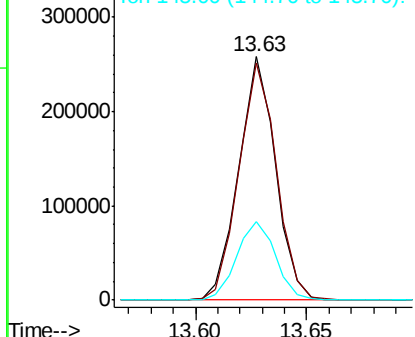
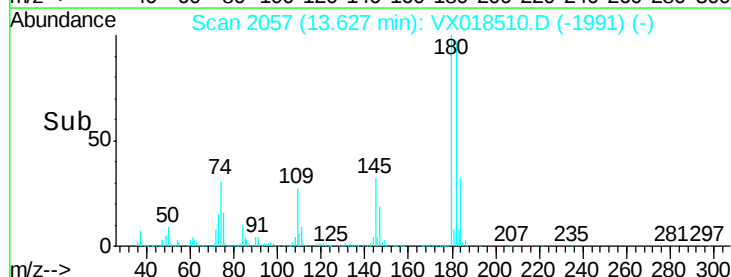


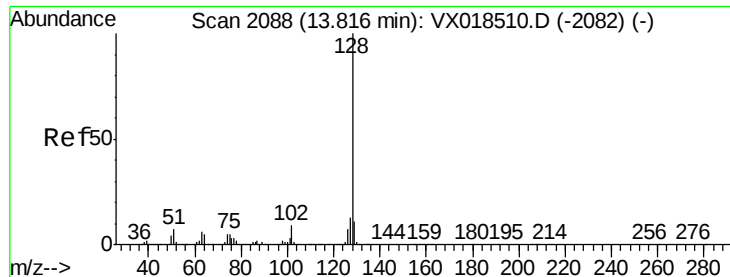
#70
 1,2,4-trichlorobenzene
 Concen: 50.000 ug/L
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX018510.D
 Acq: 21 Sep 2020 12:47

Tgt Ion:180	Resp:	300279
Ion	Ratio	Lower Upper
180	100	
182	98.3	78.6 118.0
145	33.7	27.0 40.4



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#71

Naphthalene

Concen: 50.000 ug/L

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

Instrument :

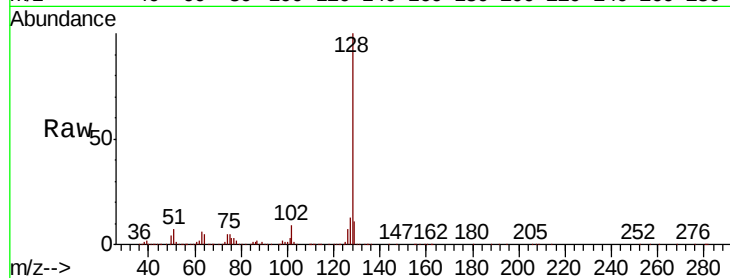
MSVOA_X

ClientSampleId :

VSTD050403

Tot Ion:128 Resp: 1019585

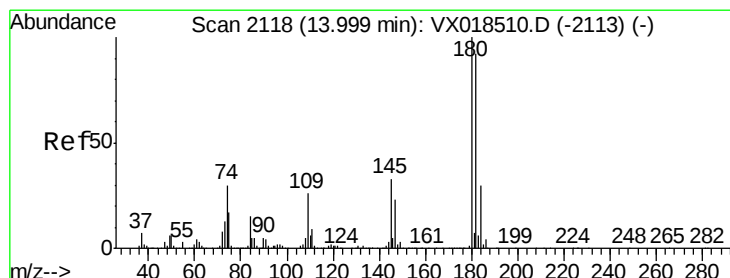
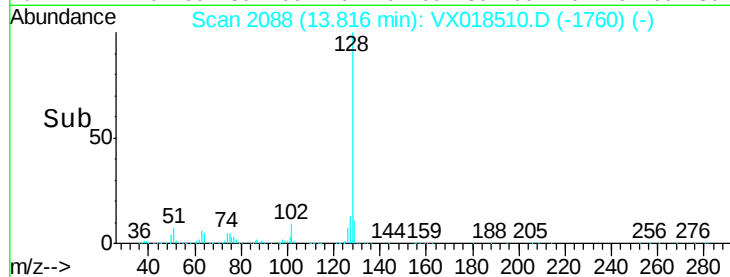
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	15.8
129	11.0	8.8	13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#72

1,2,3-Trichlorobenzene

Concen: 50.000 ug/L

RT: 14.00 min Scan# 2118

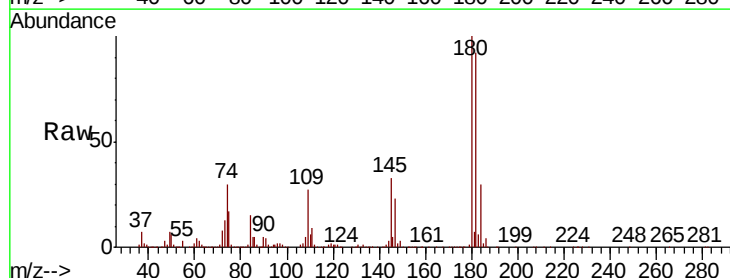
Delta R.T. 0.00 min

Lab File: VX018510.D

Acq: 21 Sep 2020 12:47

Tgt Ion:180 Resp: 319924

Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.6	114.8
145	33.9	27.1	40.7



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

