

Data File : VV010345.D
Acq On : 18 Apr 2019 12:23
Operator : SY/MD
Sample : VSTD02503
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02503

Quant Time: Apr 18 12:43:24 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM041819S.M
Quant Title : VOC Analysis
QLast Update : Thu Apr 18 10:08:56 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	321409	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	318272	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	166542	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	99378	26.86	ug/L	0.00
7) Chloroethane-d5	1.57	69	83892	26.38	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	240351	25.52	ug/L	0.00
20) 2-Butanone-d5	3.94	46	64940	69.36	ug/L	0.00
24) Chloroform-d	4.40	84	220220	30.00	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	124657	29.82	ug/L	0.00
29) Benzene-d6	5.10	84	411413	26.81	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	125728	27.54	ug/L	0.00
37) Toluene-d8	7.36	98	400414	26.76	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	59412	31.22	ug/L	0.00
39) 2-Hexanone-d5	8.13	63	50467	64.01	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	120448	29.40	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	170635	27.74	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	128324	24.914	ug/L	100
3) Chloromethane	1.25	50	105678	25.005	ug/L	98
5) Vinyl chloride	1.32	62	112230	24.694	ug/L	99
6) Bromomethane	1.52	94	77196	20.957	ug/L	99
8) Chloroethane	1.59	64	70589	24.908	ug/L	97
9) Trichlorofluoromethane	1.76	101	236808	25.727	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	119840	24.320	ug/L	99
12) 1,1-Dichloroethene	2.14	96	106061	25.011	ug/L	98
13) Acetone	2.19	43	55603	55.582	ug/L	98
14) Carbon disulfide	2.31	76	255989	24.997	ug/L	99
15) Methyl Acetate	2.46	43	50840	28.534	ug/L	93
16) Methylene chloride	2.53	84	112581	17.886	ug/L	96
17) Methyl tert-butyl Ether	2.81	73	261843	28.535	ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	100763	25.008	ug/L	95
19) 1,1-Dichloroethane	3.23	63	178037	26.862	ug/L	98
21) 2-Butanone	4.02	43	67254	58.943	ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	117017	26.691	ug/L	97
23) Bromochloromethane	4.30	128	59086	27.370	ug/L	98
25) Chloroform	4.43	83	204710	26.002	ug/L	98
27) 1,2-Dichloroethane	5.18	62	145681	28.914	ug/L	98
30) Cyclohexane	4.73	56	149146	25.024	ug/L	95
31) 1,1,1-Trichloroethane	4.66	97	180202	27.067	ug/L	98
32) Carbon tetrachloride	4.87	117	171641	27.667	ug/L	98
34) Benzene	5.15	78	408815	25.340	ug/L	100
35) Trichloroethene	5.96	95	117417	25.189	ug/L	99
36) Methylcyclohexane	6.18	83	176302	25.310	ug/L	98
40) 1,2-Dichloropropane	6.22	63	103201	26.142	ug/L	98
41) Bromodichloromethane	6.55	83	147871	28.112	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	157959	26.404	ug/L	98
43) 4-Methyl-2-pentanone	7.27	43	154290	60.387	ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	460487	25.389	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	149584	29.793	ug/L	98
46) 1,1,2-Trichloroethane	7.88	97	92362	27.581	ug/L	99
47) Tetrachloroethene	8.02	164	104077	25.186	ug/L	95
49) 2-Hexanone	8.18	43	105398	62.741	ug/L	97
50) Dibromochloromethane	8.29	129	117748	28.744	ug/L	100
51) 1,2-Dibromoethane	8.40	107	91119	26.678	ug/L #	97
52) Chlorobenzene	8.93	112	314596	24.857	ug/L	98
53) Ethylbenzene	9.05	91	518079	25.904	ug/L	100
54) m,p-Xylene	9.18	106	197754	25.064	ug/L	95
55) o-xylene	9.59	106	196140	24.964	ug/L	90
56) Styrene	9.60	104	336779	26.921	ug/L	99
57) Isopropylbenzene	9.97	105	520654	26.073	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	116050	28.039	ug/L	100
59) 1,2,3-Trichloropropane	10.32	75	85498	28.068	ug/L	98
62) Bromoform	9.77	173	68164	28.202	ug/L	99
63) 1,3-Dichlorobenzene	11.22	146	266270	25.786	ug/L	96
64) 1,4-Dichlorobenzene	11.32	146	274963	26.168	ug/L	100
65) 1,2-Dichlorobenzene	11.69	146	260413	26.419	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	18383	32.966	ug/L	96
67) 1,3,5-Trichlorobenzene	12.69	180	225143	29.424	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	179333	34.204	ug/L	98
69) Naphthalene	13.55	128	324405	45.531	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	175640	36.122	ug/L	99

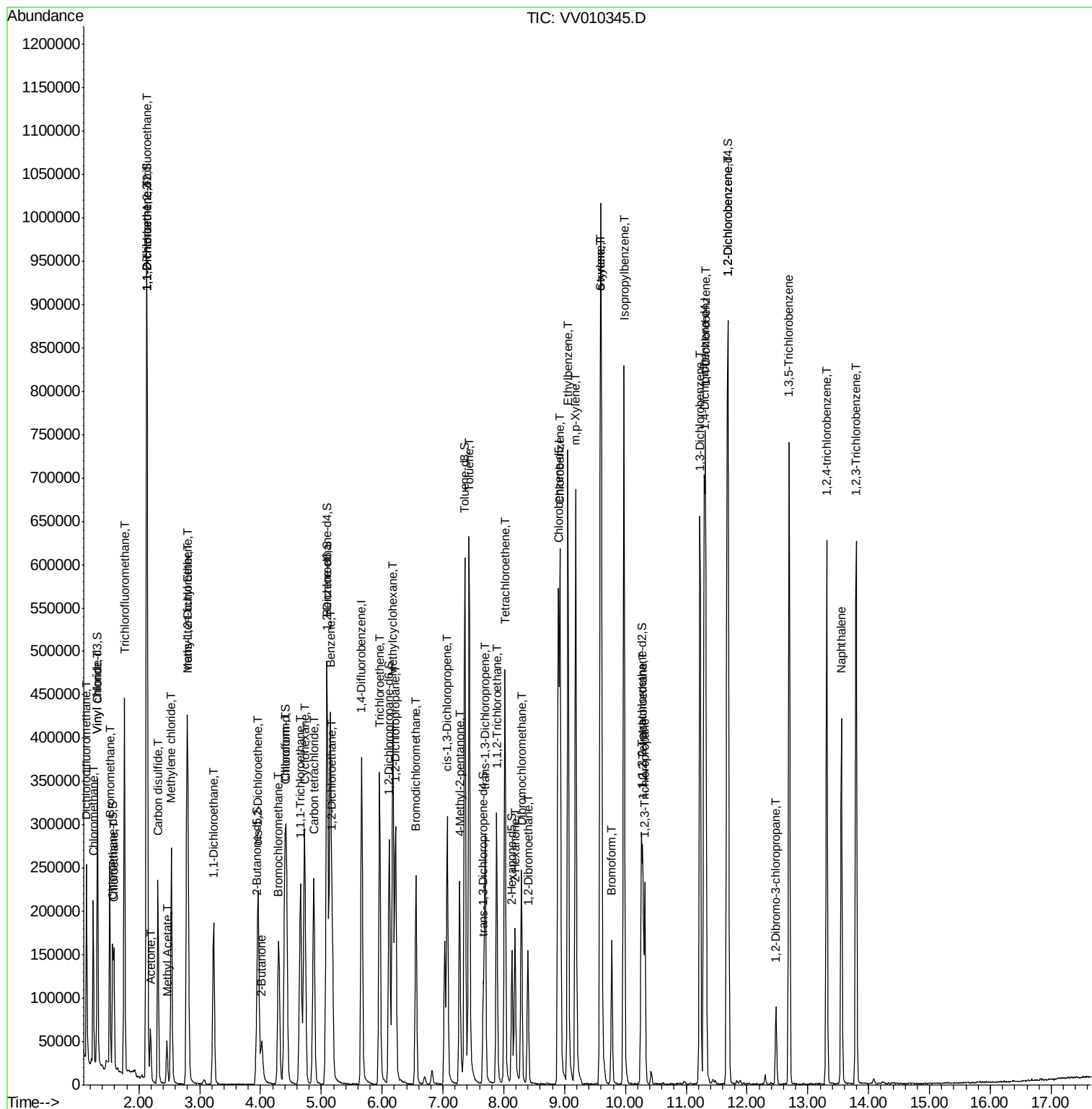
(#) = qualifier out of range (m) = manual integration (+) = signals summed

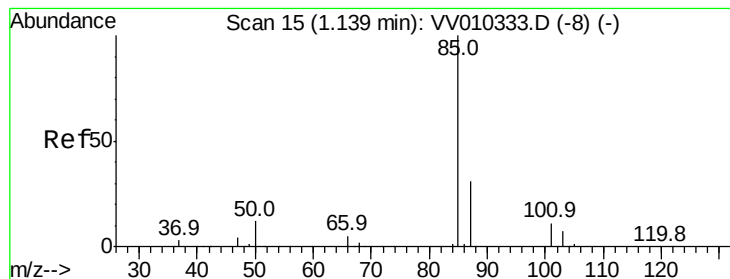
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#2

Dichlorodifluoromethane

Concen: 24.914 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

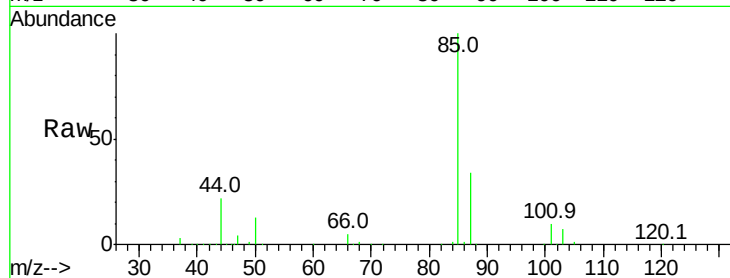
VSTD02503

Tgt Ion: 85 Resp: 128324

Ion Ratio Lower Upper

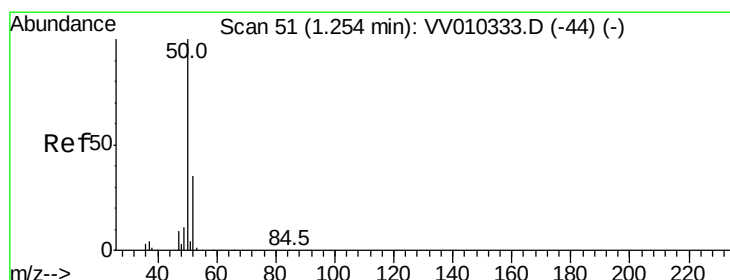
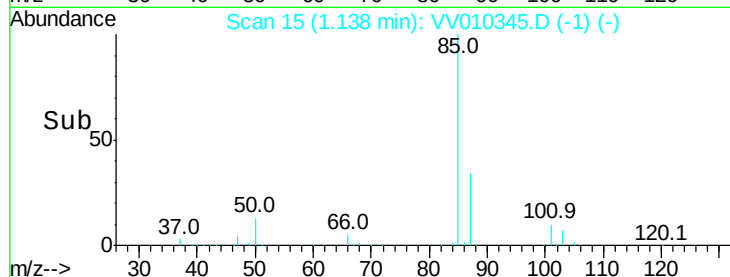
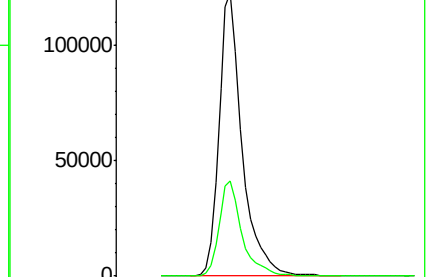
85 100

87 33.4 23.3 43.3



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 25.005 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.01 min

Lab File: VV010345.D

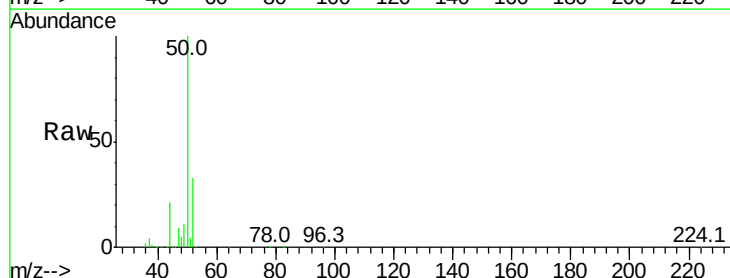
Acq: 18 Apr 2019 12:23

Tgt Ion: 50 Resp: 105678

Ion Ratio Lower Upper

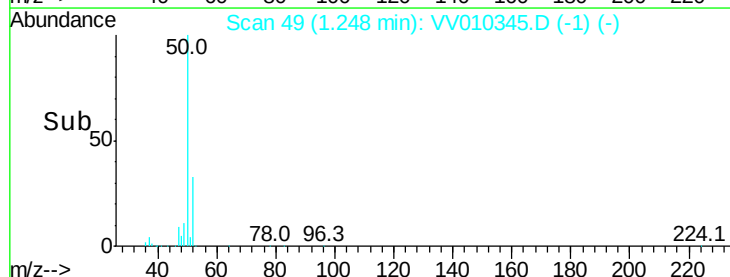
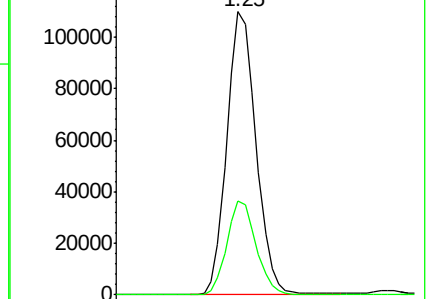
50 100

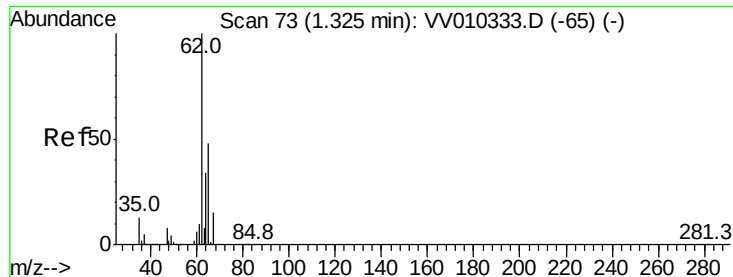
52 33.2 22.4 41.6



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 24.694 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

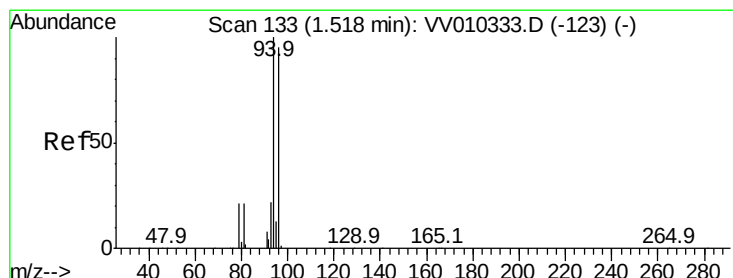
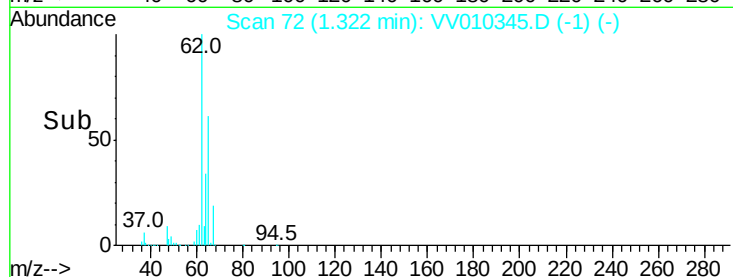
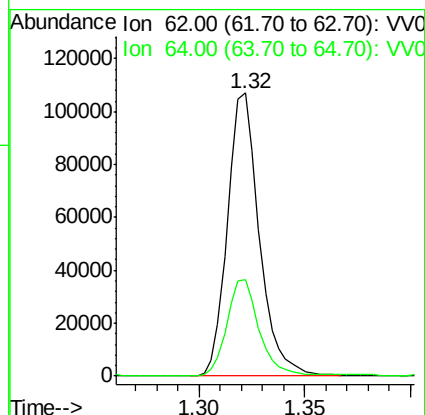
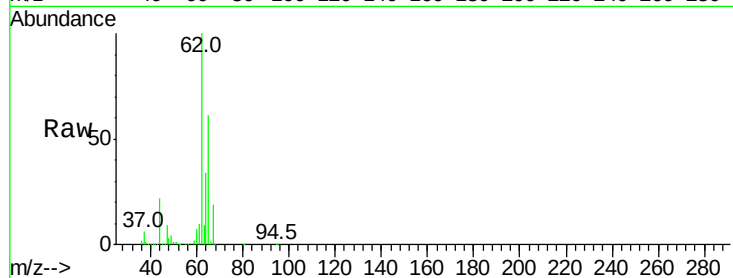
VSTD02503

Tgt Ion: 62 Resp: 112230

Ion Ratio Lower Upper

62 100

64 34.1 23.4 43.4



#6

Bromomethane

Concen: 20.957 ug/L

RT: 1.52 min Scan# 134

Delta R.T. 0.01 min

Lab File: VV010345.D

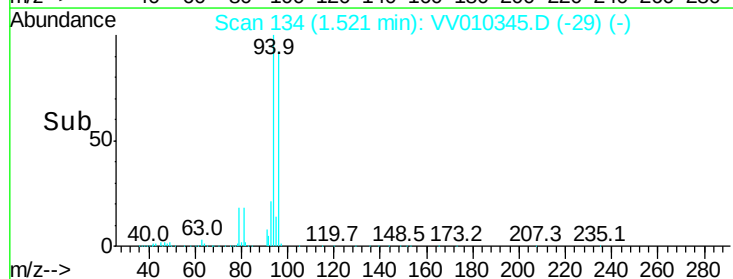
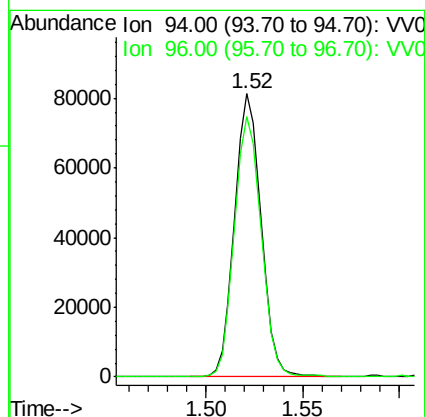
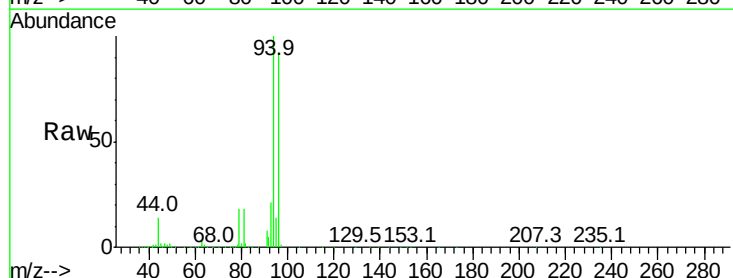
Acq: 18 Apr 2019 12:23

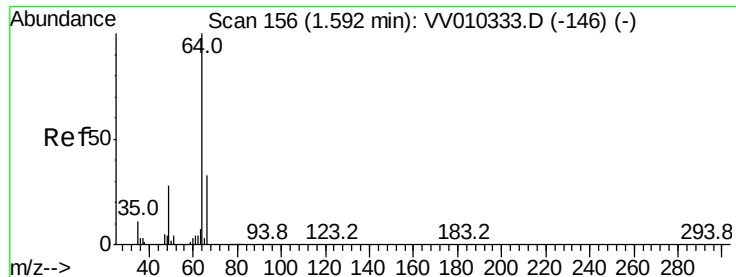
Tgt Ion: 94 Resp: 77196

Ion Ratio Lower Upper

94 100

96 93.2 9.4 179.0





#8

Chloroethane

Concen: 24.908 ug/L

RT: 1.59 min Scan# 155

Delta R.T. 0.01 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

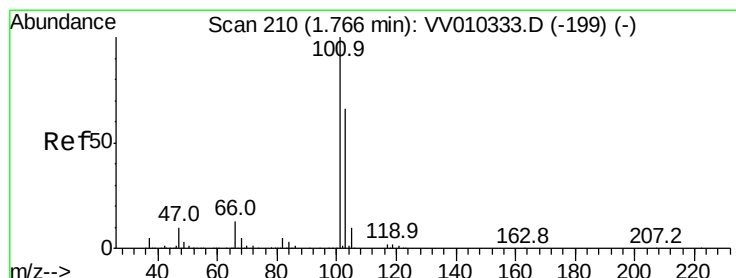
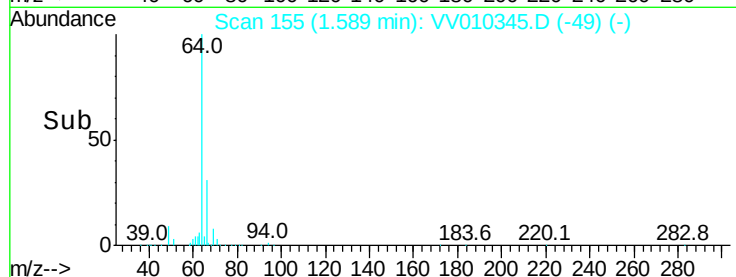
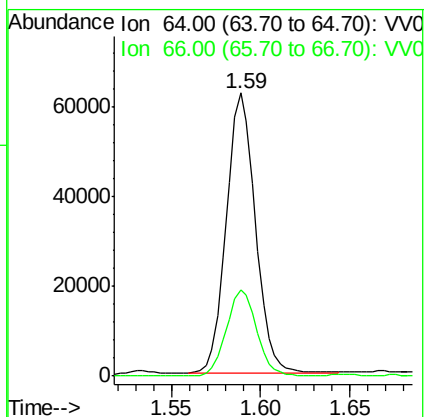
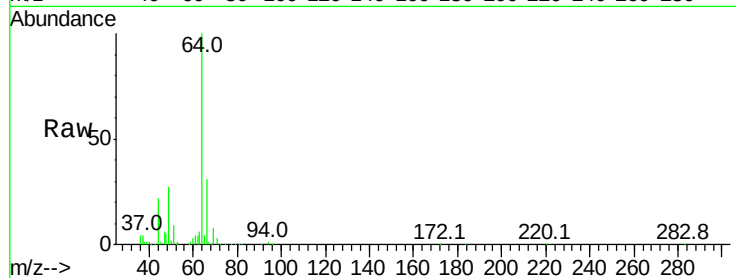
VSTD02503

Tgt Ion: 64 Resp: 70589

Ion Ratio Lower Upper

64 100

66 30.6 22.8 42.4



#9

Trichlorofluoromethane

Concen: 25.727 ug/L

RT: 1.76 min Scan# 209

Delta R.T. 0.00 min

Lab File: VV010345.D

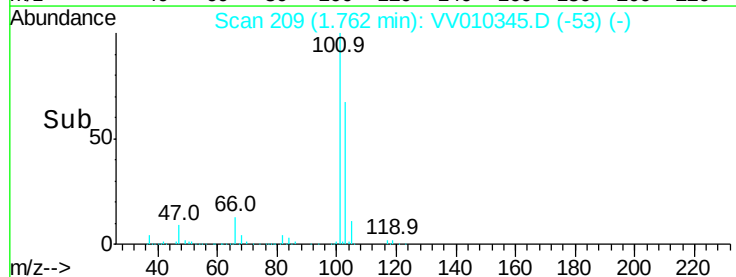
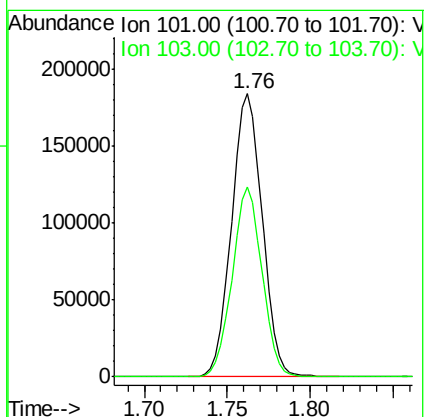
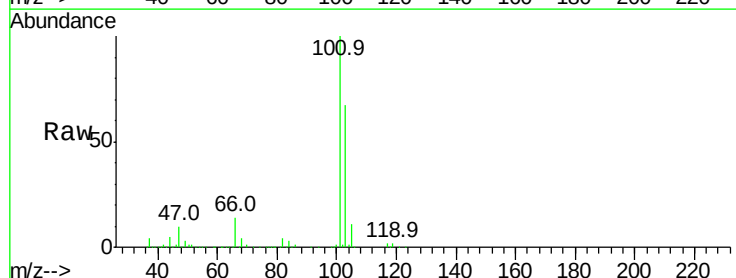
Acq: 18 Apr 2019 12:23

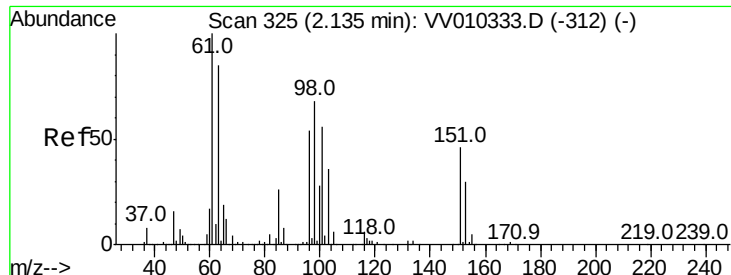
Tgt Ion: 101 Resp: 236808

Ion Ratio Lower Upper

101 100

103 65.0 44.8 83.2





#11

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

Concen: 24.320 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02503

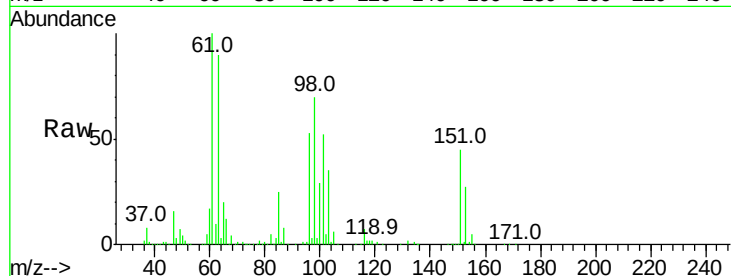
Tgt Ion: 101 Resp: 119840

Ion Ratio Lower Upper

101 100

85 46.6 36.7 55.1

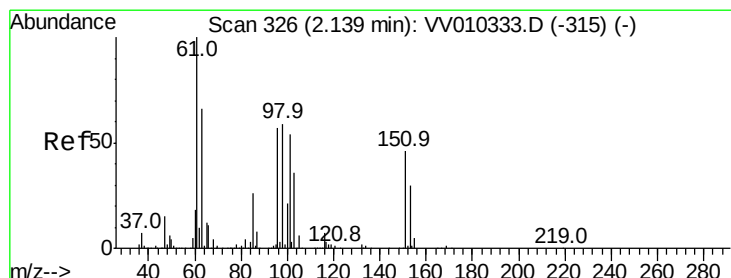
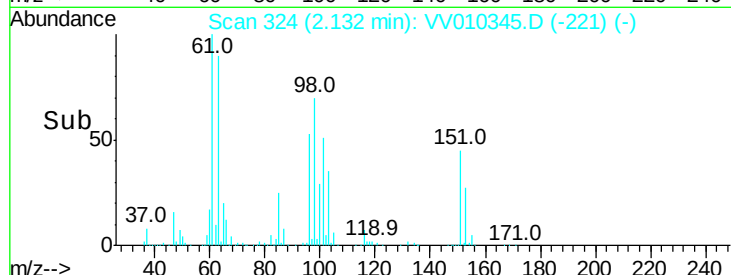
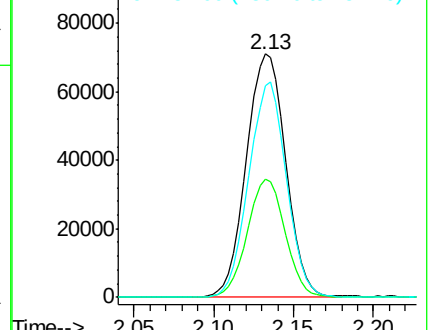
151 84.7 68.1 102.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 25.011 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

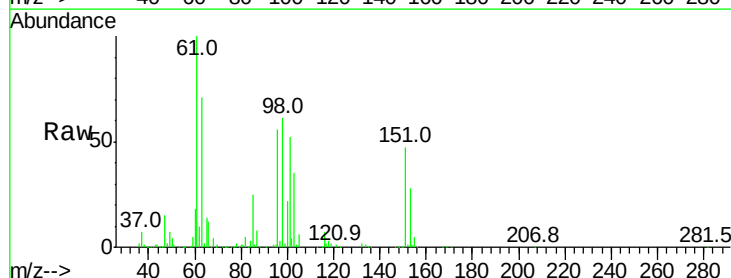
Tgt Ion: 96 Resp: 106061

Ion Ratio Lower Upper

96 100

61 178.1 125.3 232.7

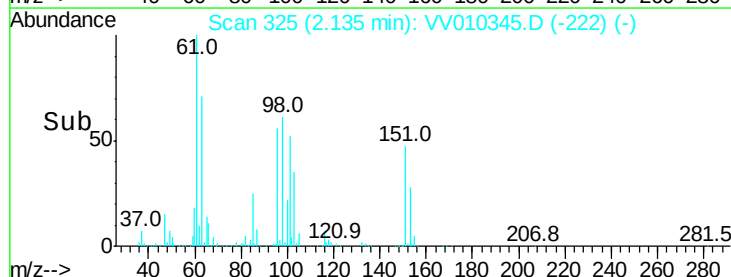
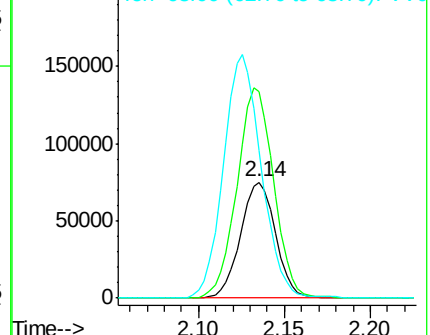
63 126.7 91.3 169.6

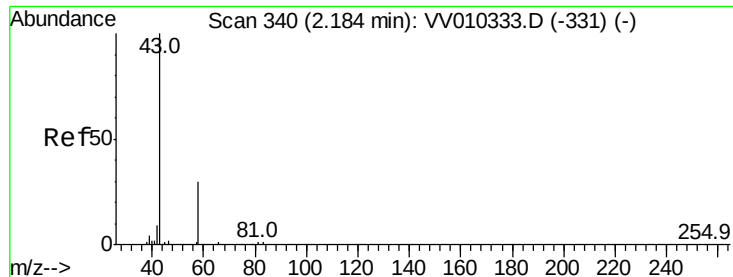


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 55.582 ug/L

RT: 2.19 min Scan# 343

Delta R.T. 0.01 min

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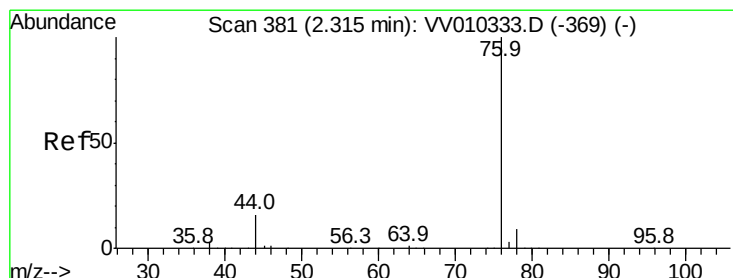
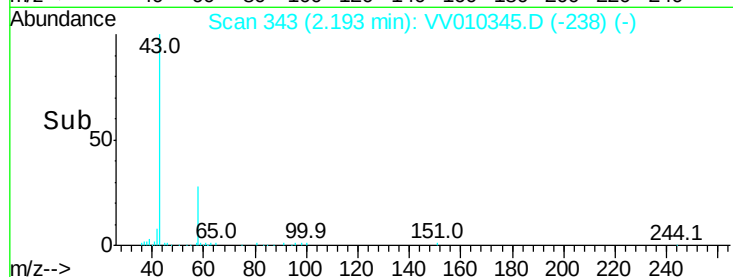
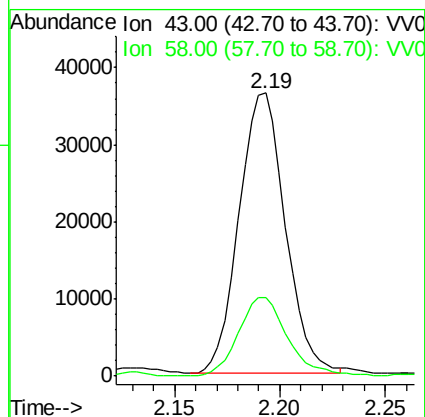
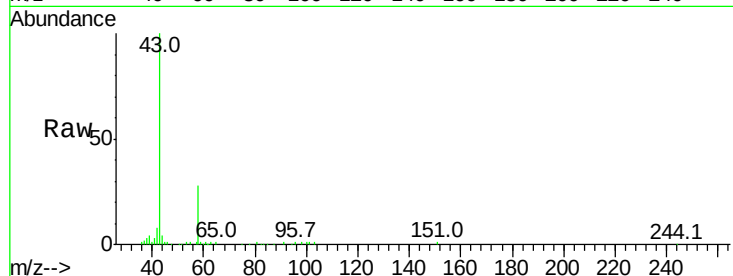
VSTD02503

Tgt Ion: 43 Resp: 55603

Ion Ratio Lower Upper

43 100

58 30.0 0.0 61.6



#14

Carbon disulfide

Concen: 24.997 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV010345.D

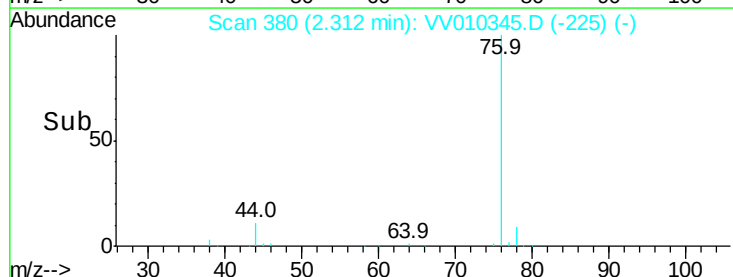
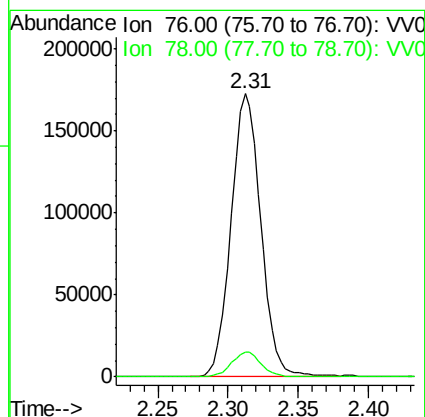
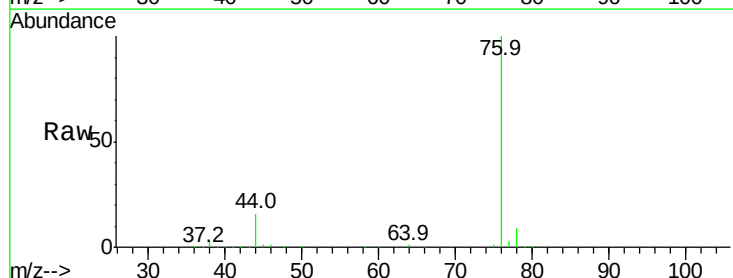
Acq: 18 Apr 2019 12:23

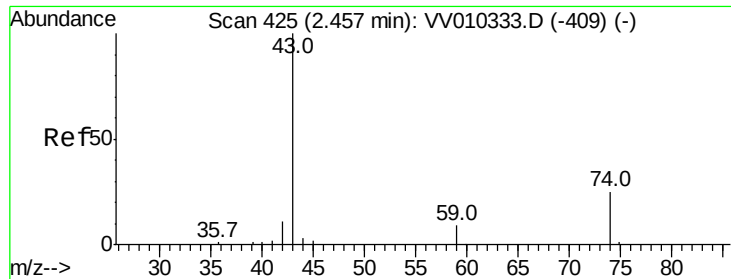
Tgt Ion: 76 Resp: 255989

Ion Ratio Lower Upper

76 100

78 8.9 7.0 10.4





#15

Methyl Acetate

Concen: 28.534 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

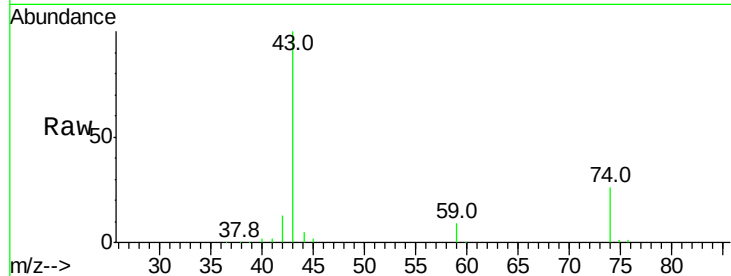
VSTD02503

Tgt Ion: 43 Resp: 50840

Ion Ratio Lower Upper

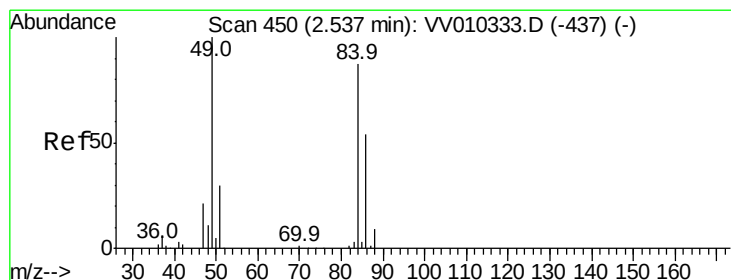
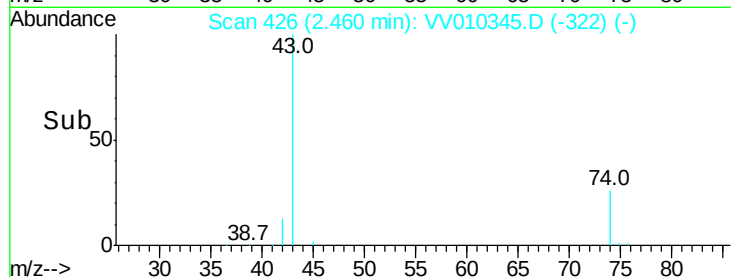
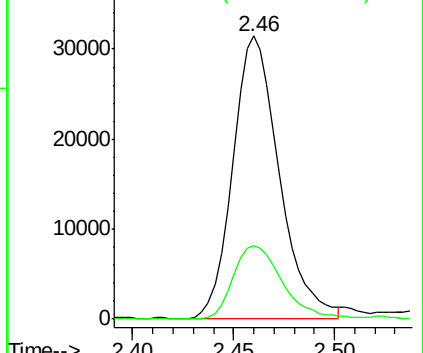
43 100

74 27.6 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 17.886 ug/L

RT: 2.53 min Scan# 449

Delta R.T. -0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

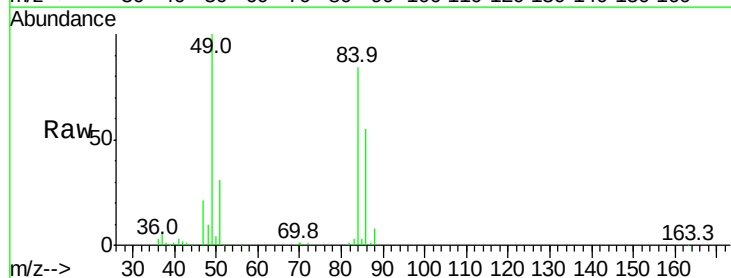
Tgt Ion: 84 Resp: 112581

Ion Ratio Lower Upper

84 100

49 119.7 79.9 148.5

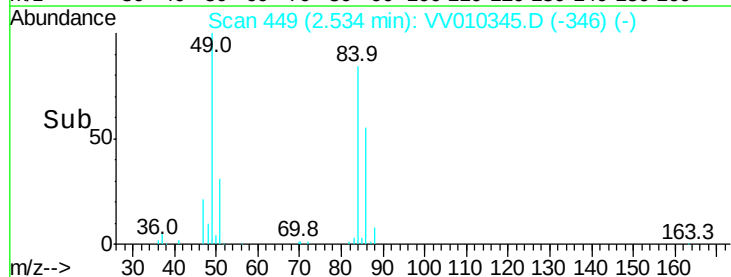
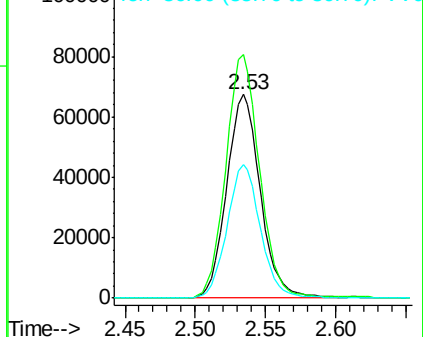
86 65.8 44.5 82.7

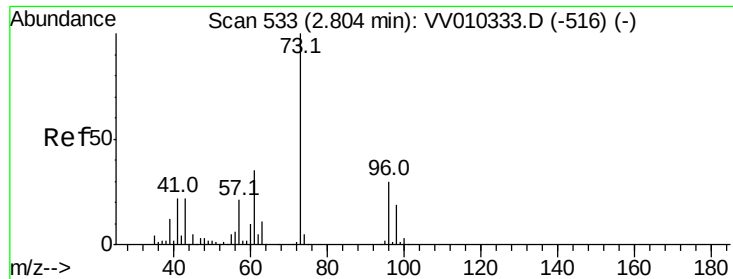


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

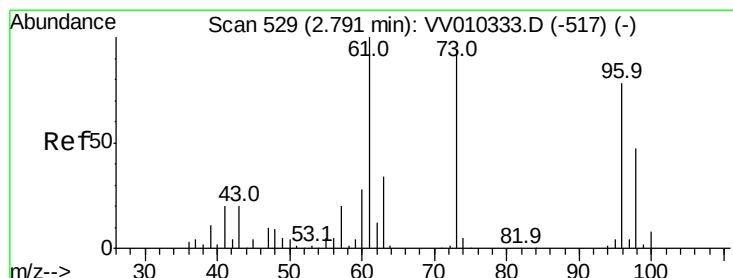
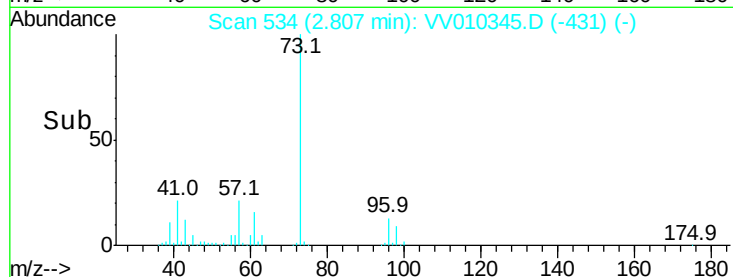
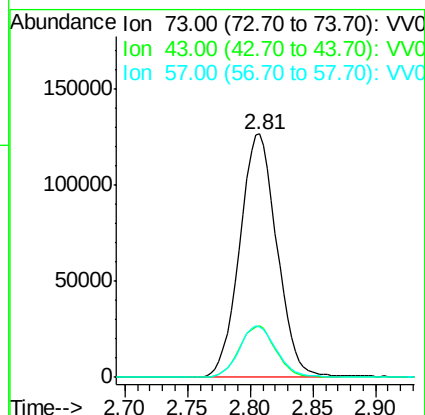
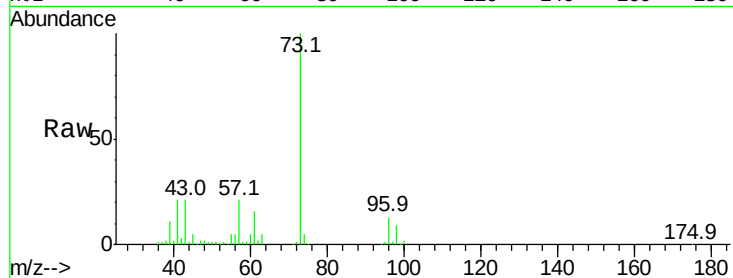




#17
Methyl tert-butyl Ether
Concen: 28.535 ug/L
RT: 2.81 min Scan# 534
Delta R.T. -0.00 min
Lab File: VV010345.D
Acq: 18 Apr 2019 12:23

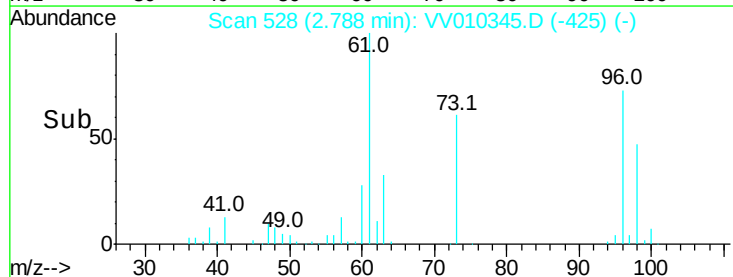
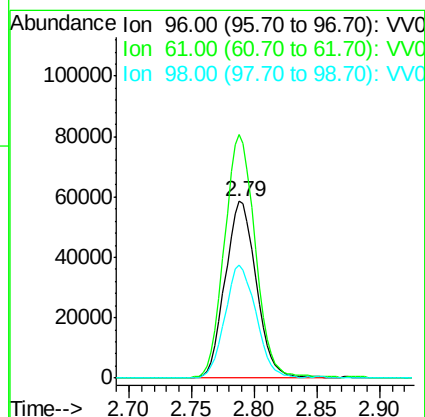
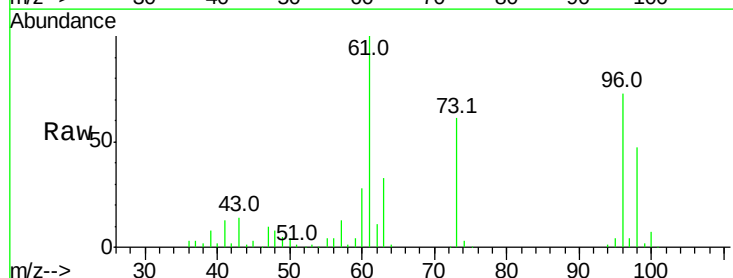
Instrument :
MSVOA_V
ClientSampleId :
VSTD02503

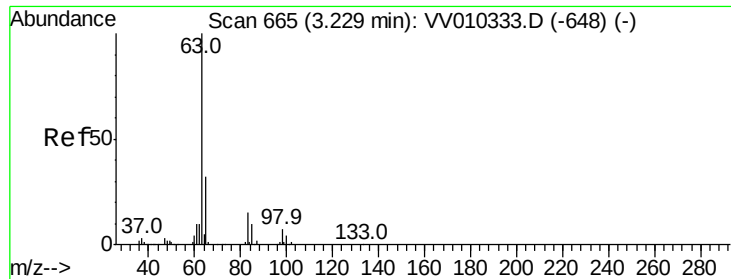
Tgt Ion: 73 Resp: 261843
Ion Ratio Lower Upper
73 100
43 20.7 16.0 24.0
57 21.3 16.6 24.8



#18
trans-1,2-Dichloroethene
Concen: 25.008 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.00 min
Lab File: VV010345.D
Acq: 18 Apr 2019 12:23

Tgt Ion: 96 Resp: 100763
Ion Ratio Lower Upper
96 100
61 137.6 92.5 171.9
98 64.2 47.9 89.1

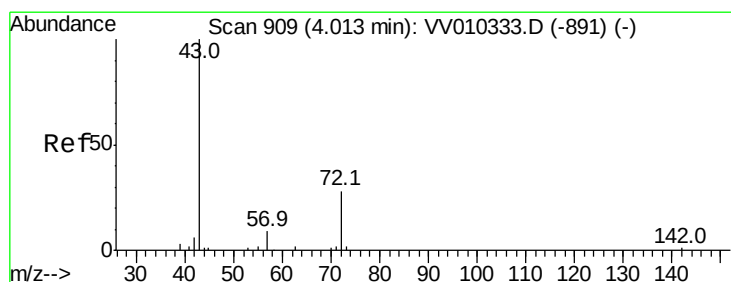
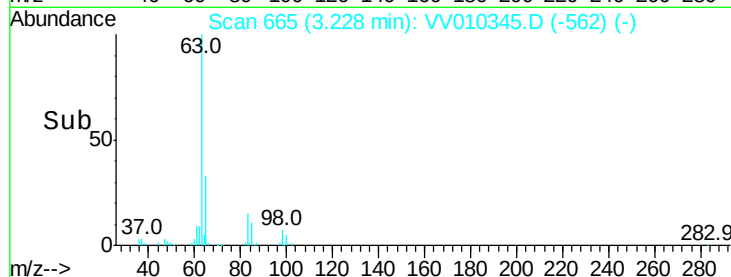
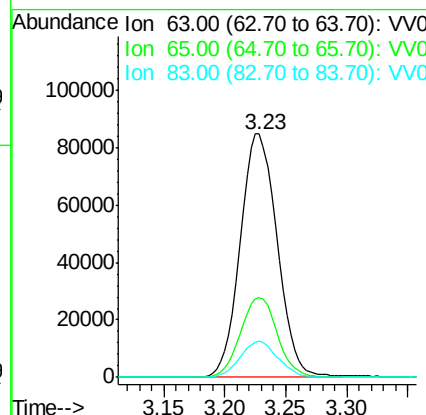
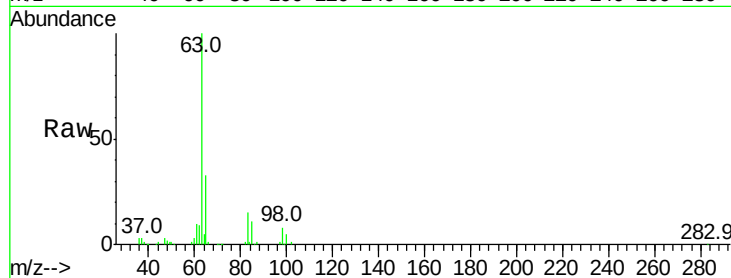




#19
 1,1-Dichloroethane
 Concen: 26.862 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV010345.D
 Acq: 18 Apr 2019 12:23

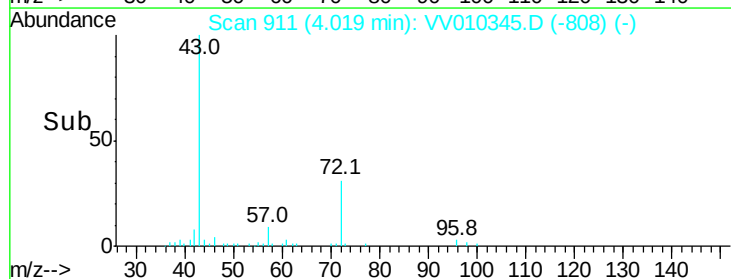
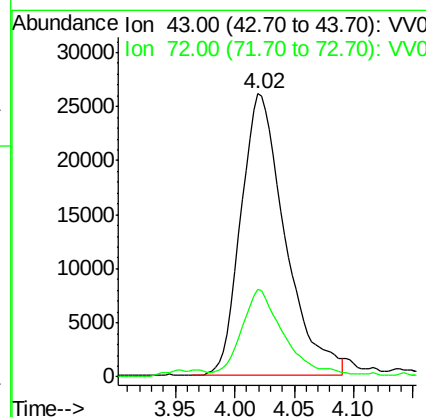
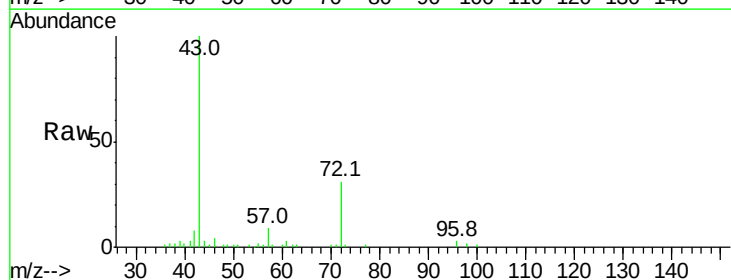
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02503

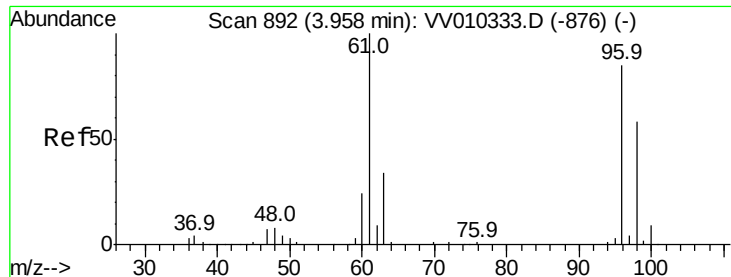
Tgt Ion: 63 Resp: 178037
 Ion Ratio Lower Upper
 63 100
 65 32.9 23.8 44.2
 83 14.6 10.8 20.0



#21
 2-Butanone
 Concen: 58.943 ug/L
 RT: 4.02 min Scan# 911
 Delta R.T. -0.00 min
 Lab File: VV010345.D
 Acq: 18 Apr 2019 12:23

Tgt Ion: 43 Resp: 67254
 Ion Ratio Lower Upper
 43 100
 72 26.1 13.5 40.4



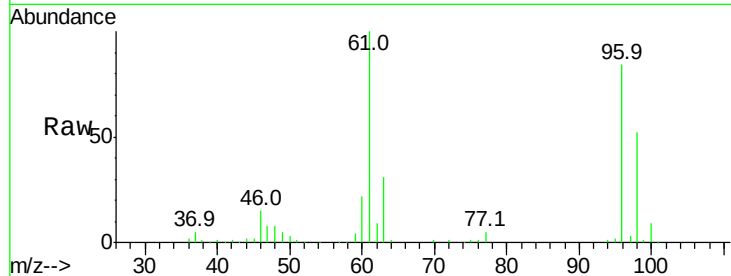


#22

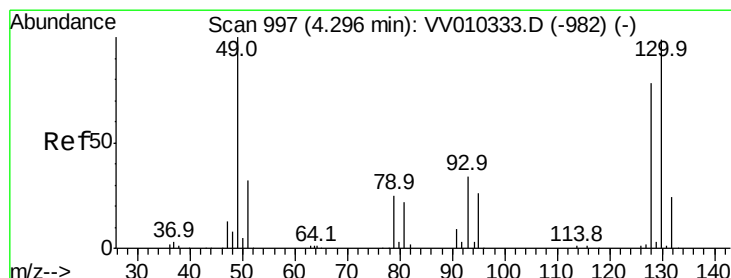
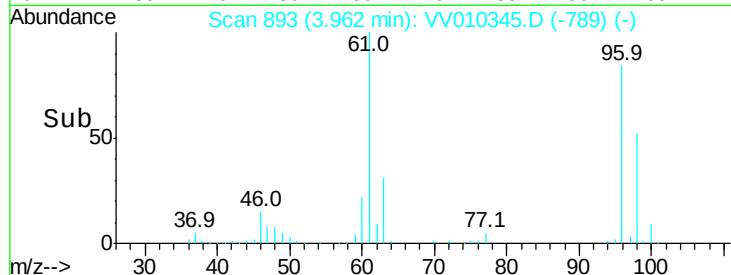
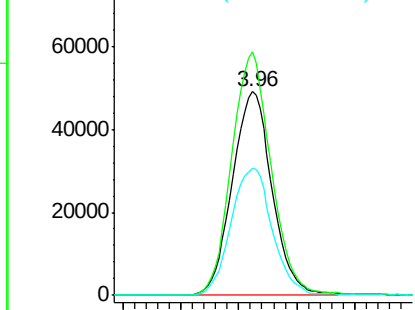
cis-1,2-Dichloroethene
Concen: 26.691 ug/L
RT: 3.96 min Scan# 893
Delta R.T. 0.00 min
Lab File: VV010345.D
Acq: 18 Apr 2019 12:23

Instrument :
MSVOA_V
ClientSampleId :
VSTD02503

Tgt Ion: 96 Resp: 117017
Ion Ratio Lower Upper
96 100
61 119.5 84.9 157.7
98 62.4 47.0 87.4



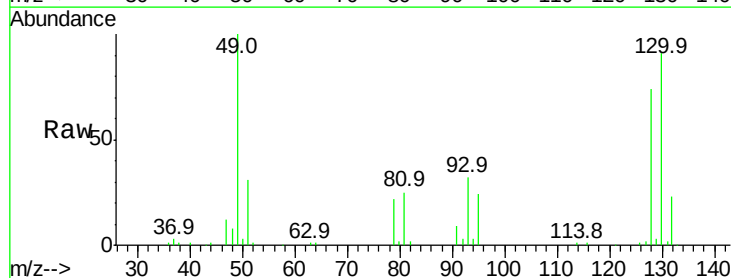
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



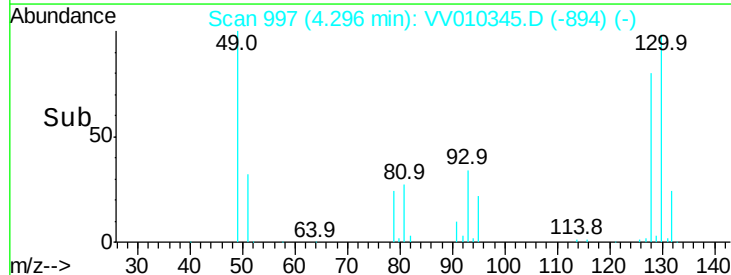
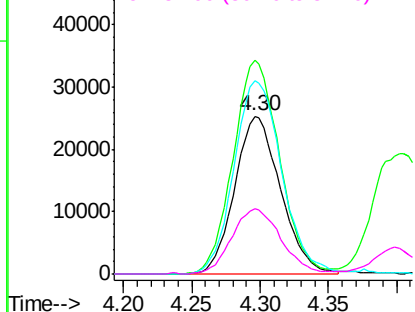
#23

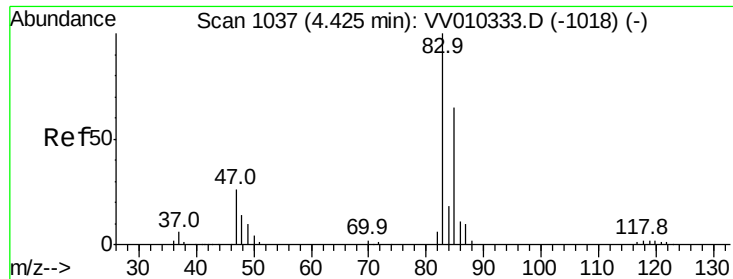
Bromochloromethane
Concen: 27.370 ug/L
RT: 4.30 min Scan# 997
Delta R.T. -0.00 min
Lab File: VV010345.D
Acq: 18 Apr 2019 12:23

Tgt Ion: 128 Resp: 59086
Ion Ratio Lower Upper
128 100
49 135.2 93.4 173.4
130 122.4 84.5 156.9
51 41.6 32.5 48.7



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VV0
Ion 130.00 (129.70 to 130.70): V
Ion 51.00 (50.70 to 51.70): VV0

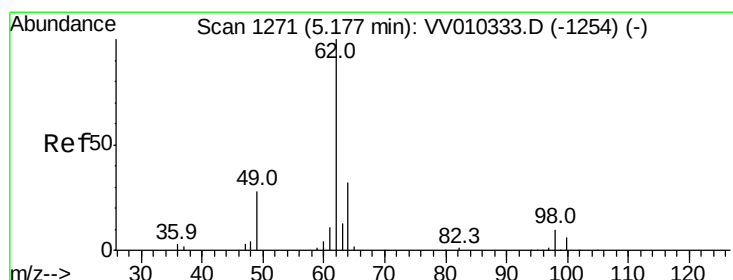
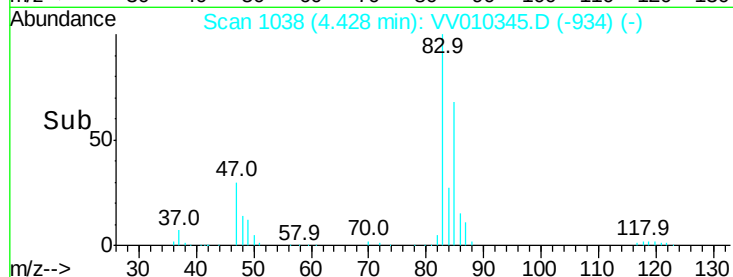
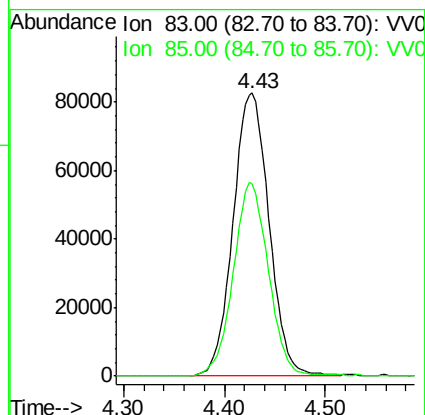
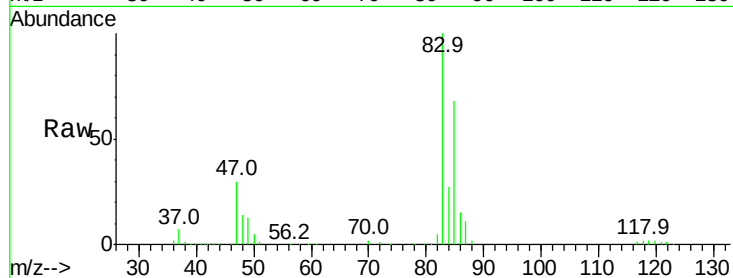




#25
Chloroform
Concen: 26.002 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VV010345.D
Acq: 18 Apr 2019 12:23

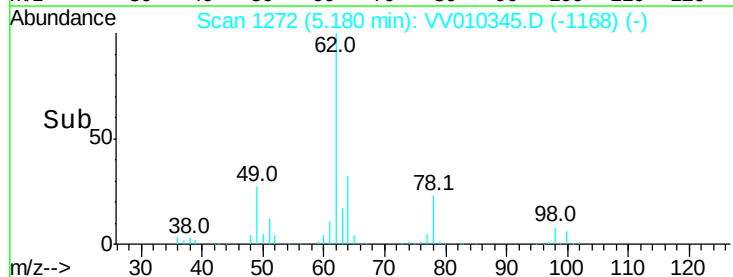
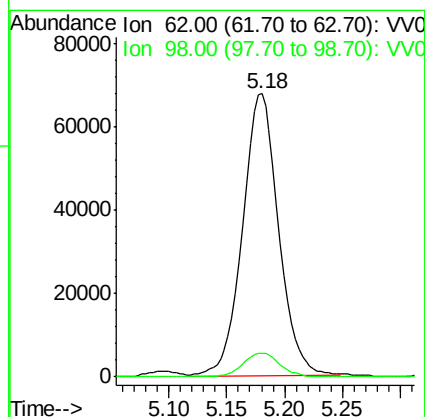
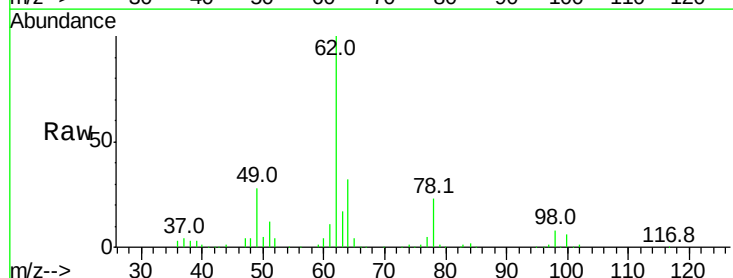
Instrument :
MSVOA_V
ClientSampleId :
VSTD02503

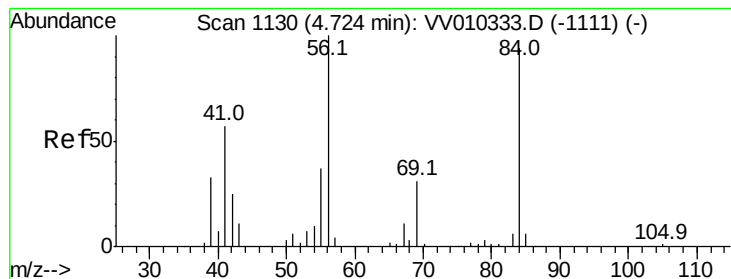
Tgt Ion: 83 Resp: 204710
Ion Ratio Lower Upper
83 100
85 66.5 45.4 84.2



#27
1,2-Dichloroethane
Concen: 28.914 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV010345.D
Acq: 18 Apr 2019 12:23

Tgt Ion: 62 Resp: 145681
Ion Ratio Lower Upper
62 100
98 8.5 7.4 11.2





#30

Cyclohexane

Concen: 25.024 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02503

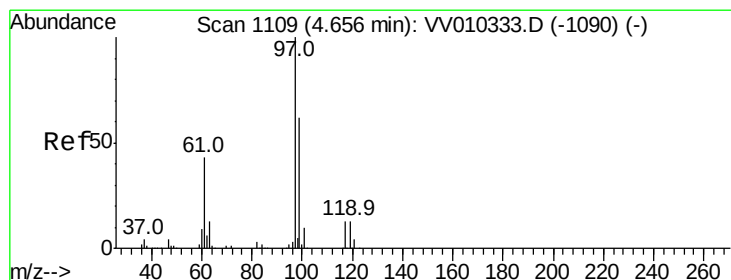
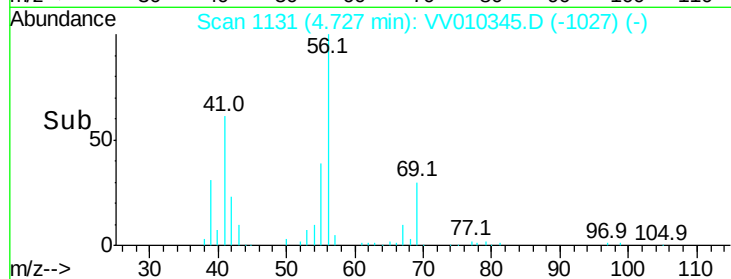
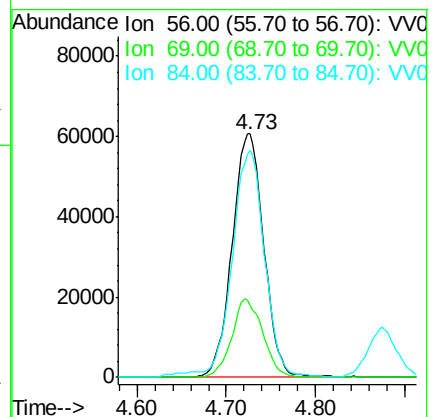
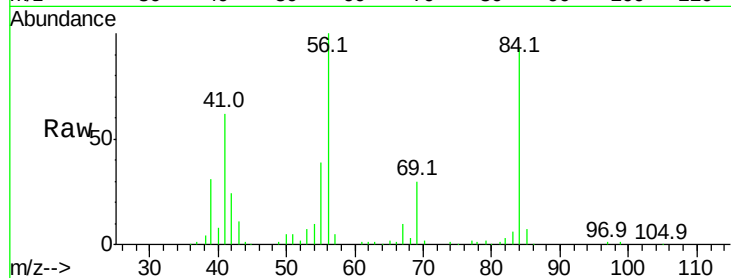
Tgt Ion: 56 Resp: 149146

Ion Ratio Lower Upper

56 100

69 31.6 25.7 38.5

84 91.2 77.5 116.3



#31

1,1,1-Trichloroethane

Concen: 27.067 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

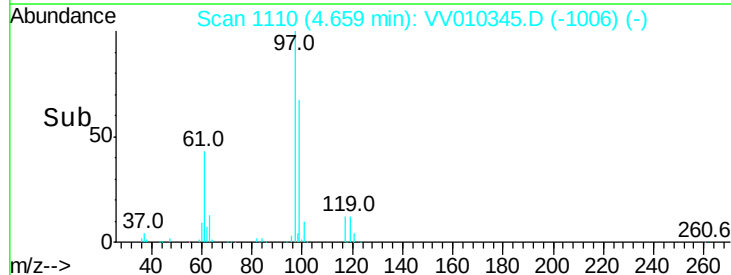
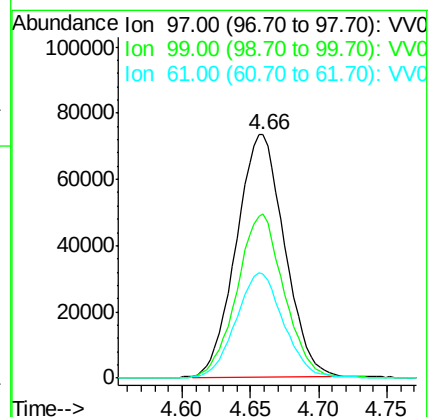
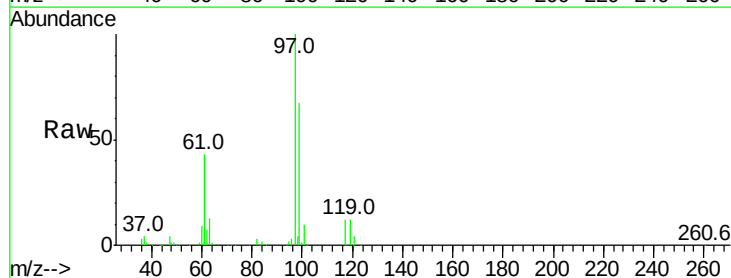
Tgt Ion: 97 Resp: 180202

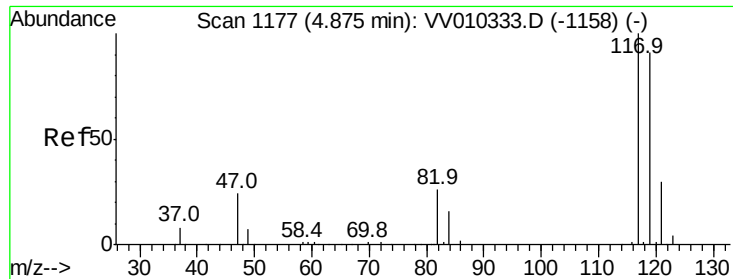
Ion Ratio Lower Upper

97 100

99 66.2 52.2 78.2

61 43.1 33.4 50.0





#32

Carbon tetrachloride

Concen: 27.667 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

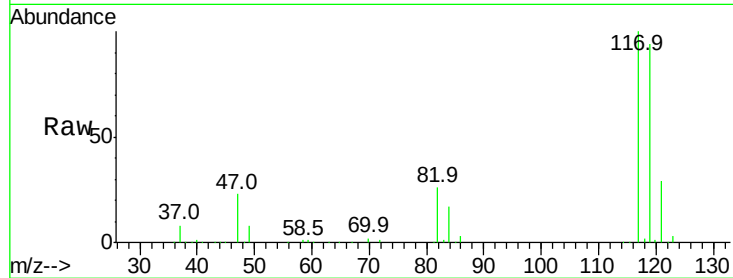
VSTD02503

Tgt Ion:117 Resp: 171641

Ion Ratio Lower Upper

117 100

119 95.1 77.6 116.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

80000

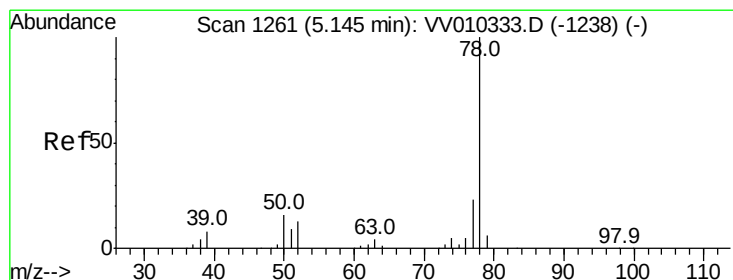
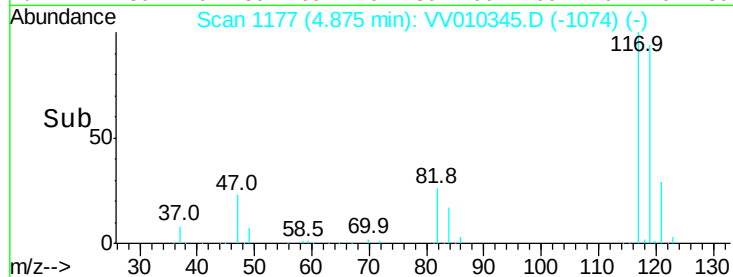
60000

40000

20000

0

Time--> 4.80 4.85 4.90 4.95



#34

Benzene

Concen: 25.340 ug/L

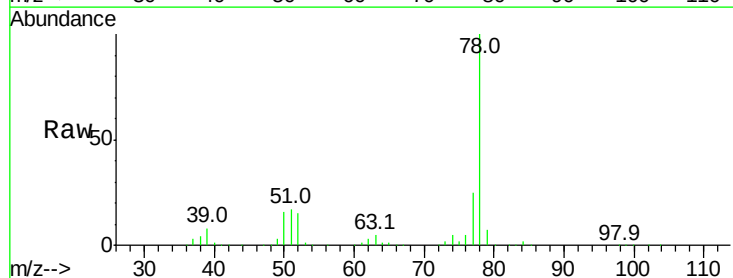
RT: 5.15 min Scan# 1262

Delta R.T. -0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

Tgt Ion: 78 Resp: 408815



Abundance Ion 78.00 (77.70 to 78.70): VV0

200000

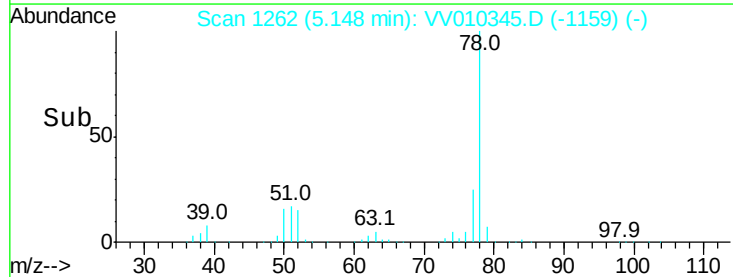
150000

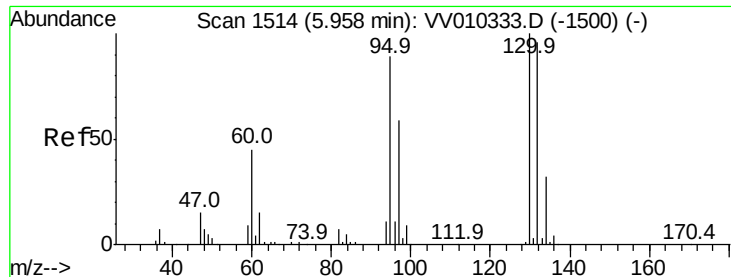
100000

50000

0

Time--> 5.00 5.10 5.20





#35

Trichloroethene

Concen: 25.189 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02503

Tgt Ion: 95 Resp: 117417

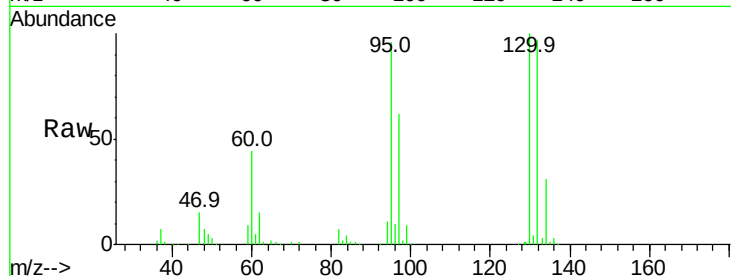
Ion Ratio Lower Upper

95 100

97 65.2 44.3 82.3

132 102.1 71.3 132.3

130 105.7 73.4 136.4

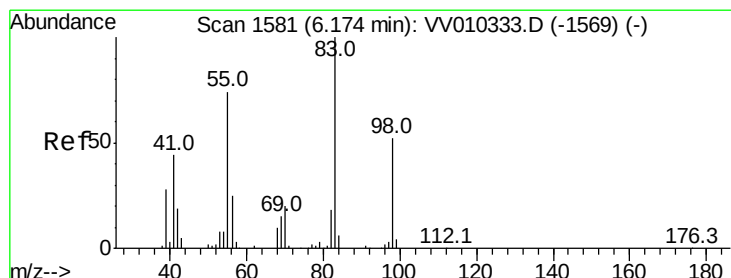
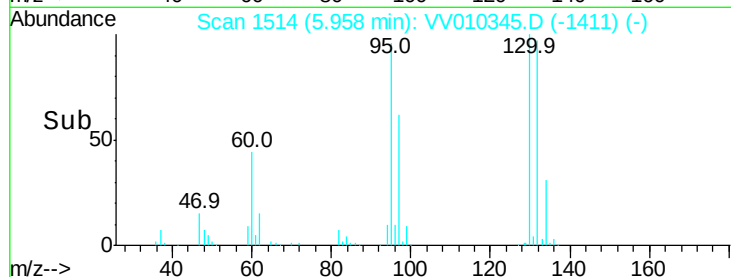
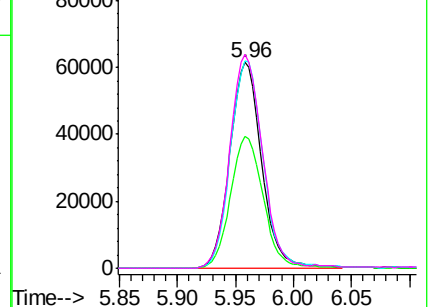


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#36

Methylcyclohexane

Concen: 25.310 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

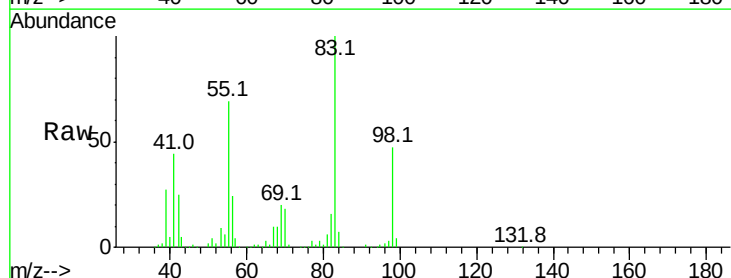
Tgt Ion: 83 Resp: 176302

Ion Ratio Lower Upper

83 100

55 69.9 55.7 83.5

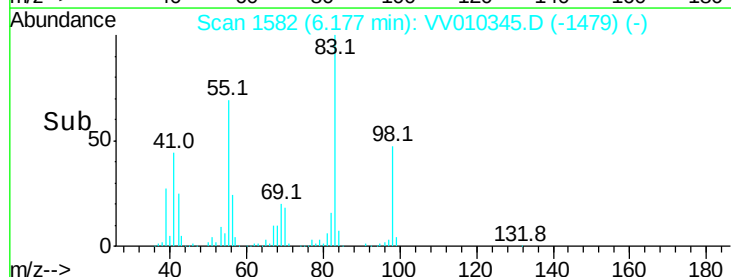
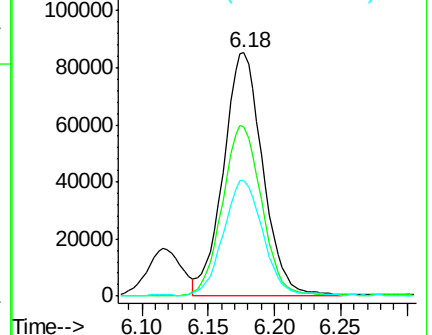
98 46.6 39.4 59.2

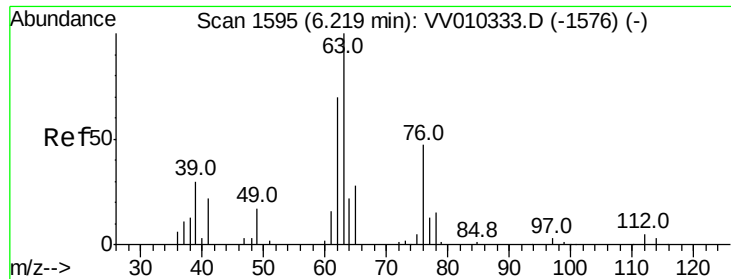


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

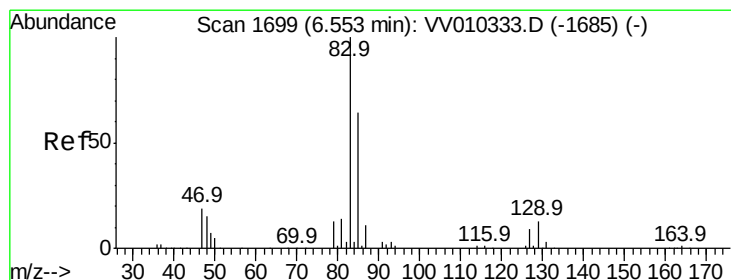
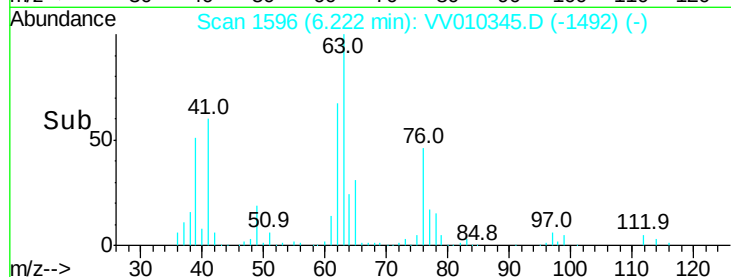
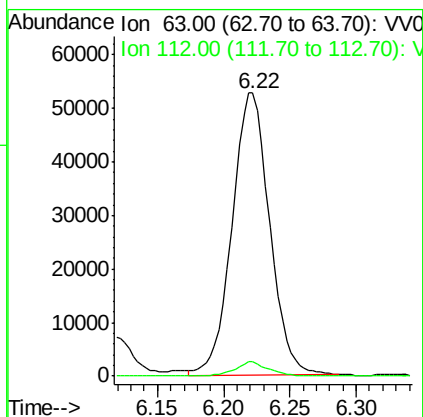
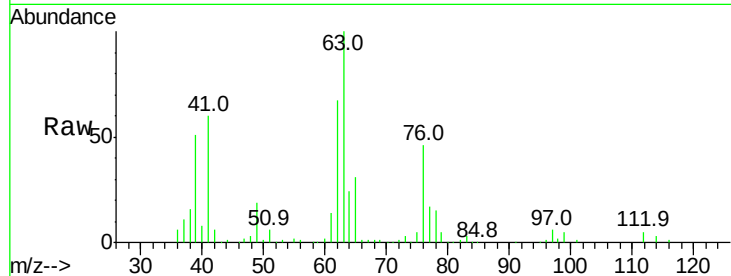




#40
 1,2-Dichloropropane
 Concen: 26.142 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: VV010345.D
 Acq: 18 Apr 2019 12:23

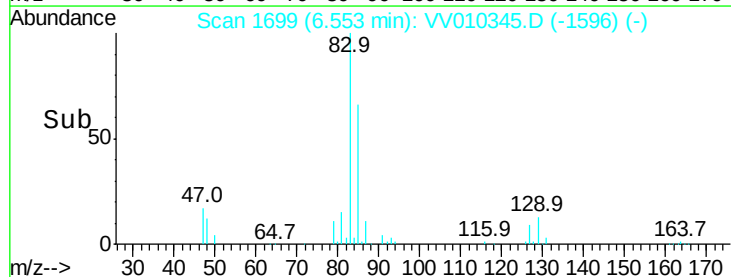
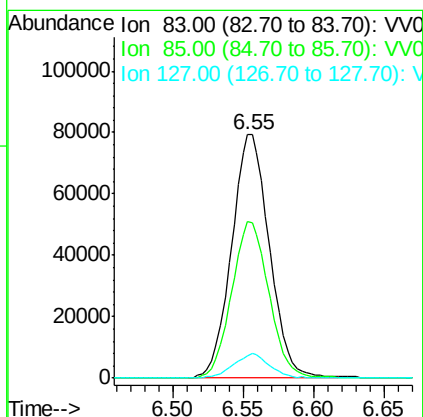
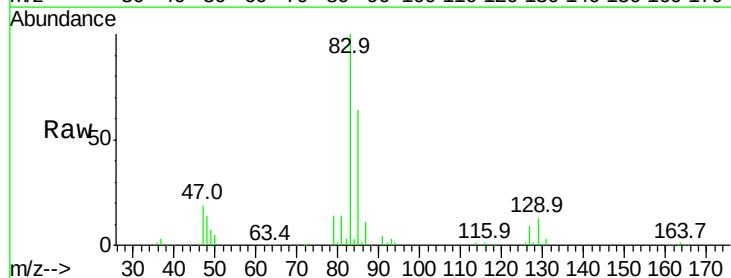
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02503

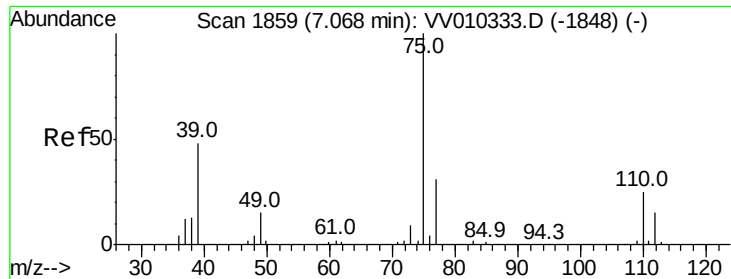
Tgt Ion: 63 Resp: 103201
 Ion Ratio Lower Upper
 63 100
 112 4.5 4.0 6.0



#41
 Bromodichloromethane
 Concen: 28.112 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VV010345.D
 Acq: 18 Apr 2019 12:23

Tgt Ion: 83 Resp: 147871
 Ion Ratio Lower Upper
 83 100
 85 64.3 45.7 84.9
 127 9.3 8.2 12.2





#42

cis-1,3-Dichloropropene

Concen: 26.404 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. -0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

Instrument :

MSVOA_V

ClientSampled :

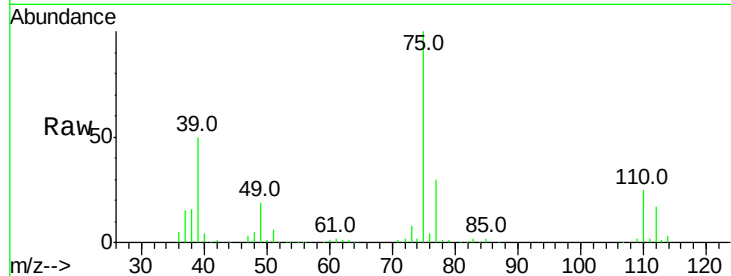
VSTD02503

Tgt Ion: 75 Resp: 157959

Ion Ratio Lower Upper

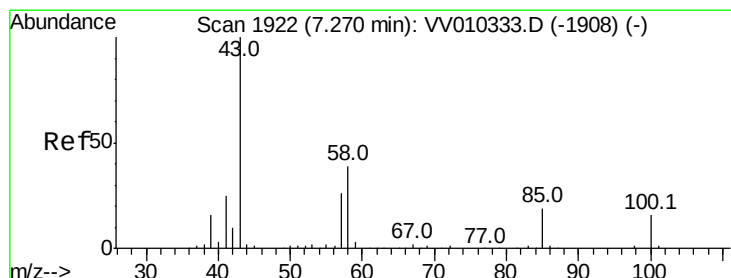
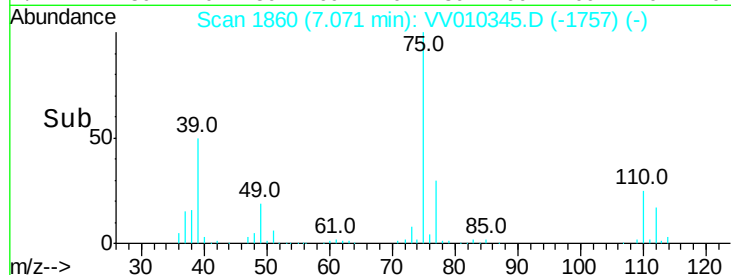
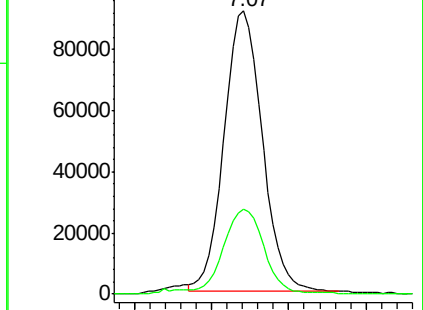
75 100

77 30.1 21.9 40.7



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#43

4-Methyl-2-pentanone

Concen: 60.387 ug/L

RT: 7.27 min Scan# 1923

Delta R.T. -0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

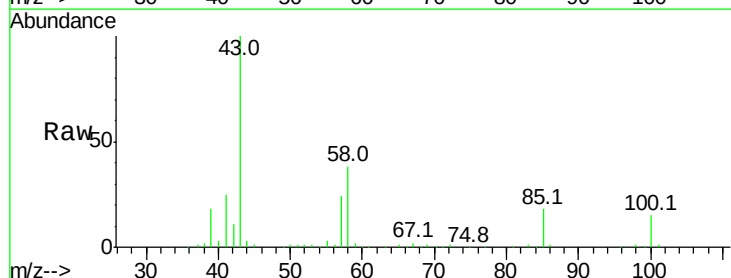
Tgt Ion: 43 Resp: 154290

Ion Ratio Lower Upper

43 100

58 37.5 30.4 45.6

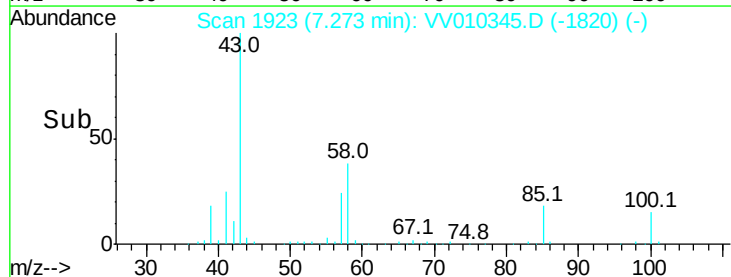
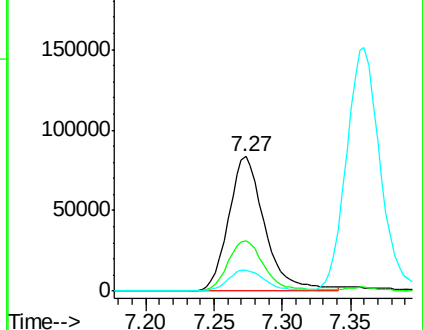
100 15.8 13.5 20.3

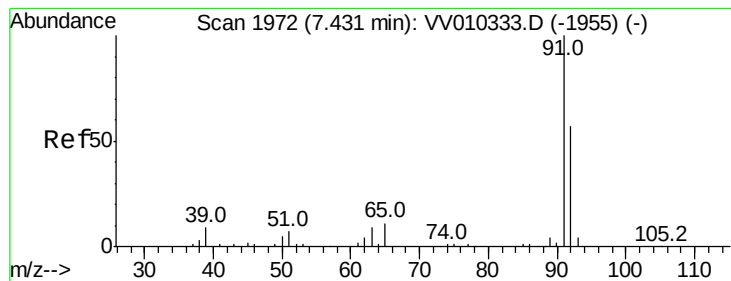


Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#44

Toluene

Concen: 25.389 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

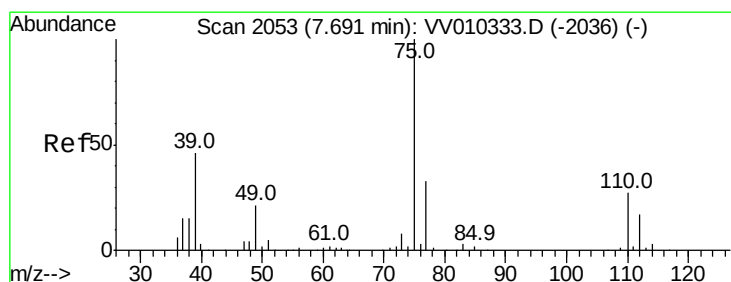
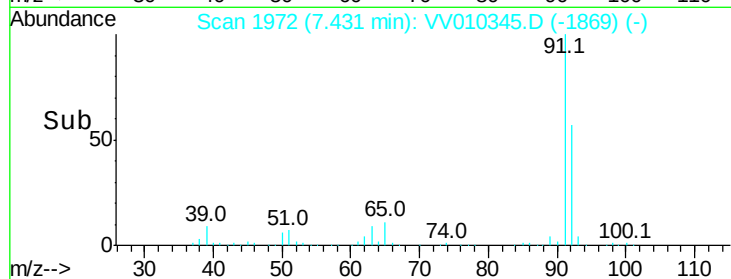
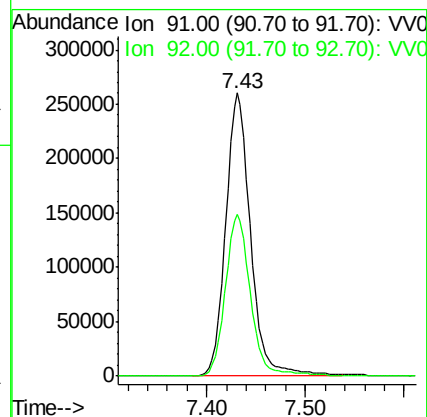
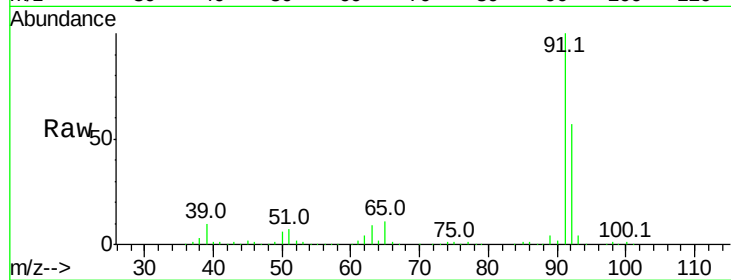
VSTD02503

Tgt Ion: 91 Resp: 460487

Ion Ratio Lower Upper

91 100

92 57.3 41.0 76.2



#45

trans-1,3-Dichloropropene

Concen: 29.793 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. -0.00 min

Lab File: VV010345.D

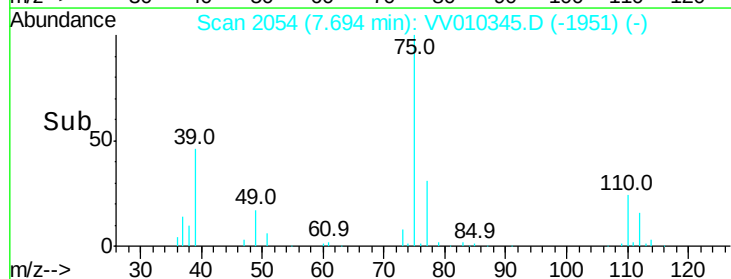
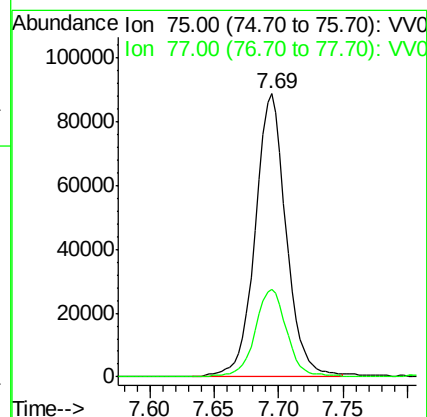
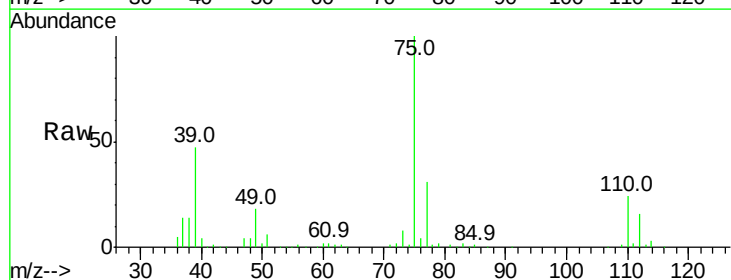
Acq: 18 Apr 2019 12:23

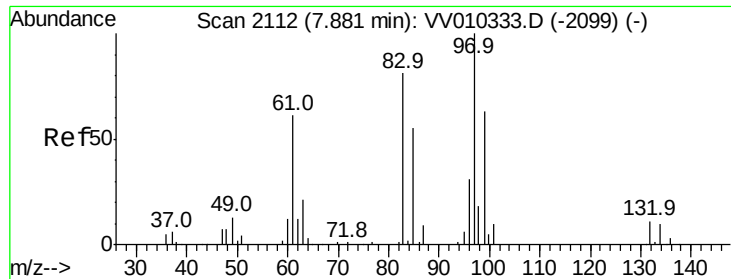
Tgt Ion: 75 Resp: 149584

Ion Ratio Lower Upper

75 100

77 31.0 22.4 41.6

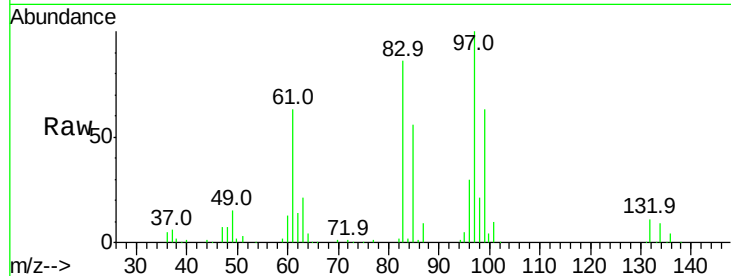




#46
 1,1,2-Trichloroethane
 Concen: 27.581 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV010345.D
 Acq: 18 Apr 2019 12:23

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02503

Tgt Ion:	97	Resp:	92362
Ion	Ratio	Lower	Upper
97	100		
83	86.0	60.5	112.5
85	55.9	38.8	72.0
99	62.7	45.6	84.6



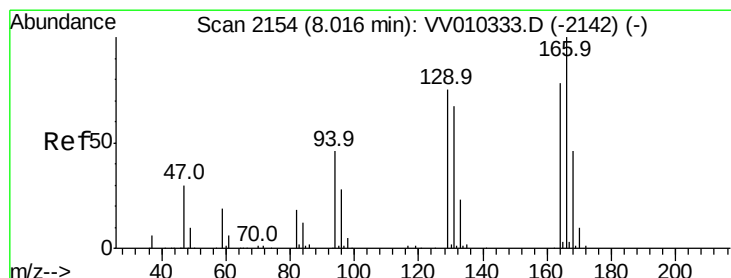
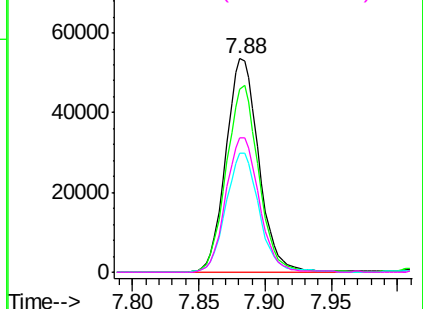
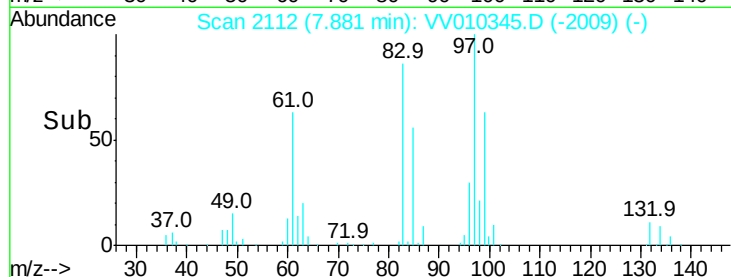
Abundance

Ion 97.00 (96.70 to 97.70): VV010345.D (-2052) (-)

Ion 83.00 (82.70 to 83.70): VV010345.D (-2052) (-)

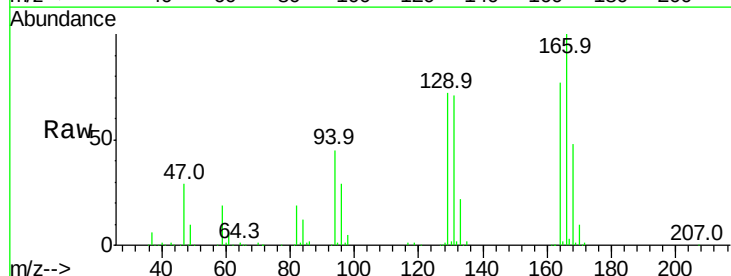
Ion 85.00 (84.70 to 85.70): VV010345.D (-2052) (-)

Ion 99.00 (98.70 to 99.70): VV010345.D (-2052) (-)



#47
 Tetrachloroethene
 Concen: 25.186 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. -0.00 min
 Lab File: VV010345.D
 Acq: 18 Apr 2019 12:23

Tgt Ion:	164	Resp:	104077
Ion	Ratio	Lower	Upper
164	100		
129	92.4	62.6	116.2
131	92.1	60.0	111.4
166	129.3	87.4	162.2



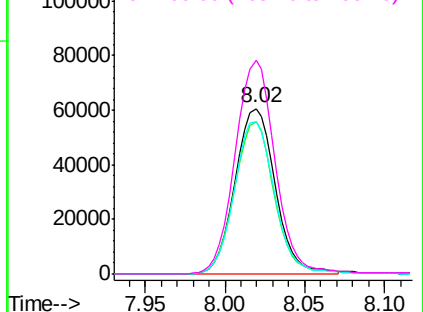
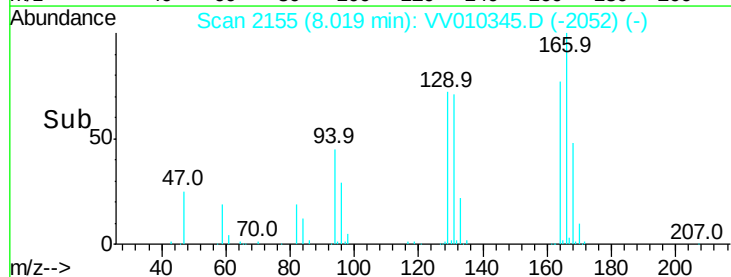
Abundance

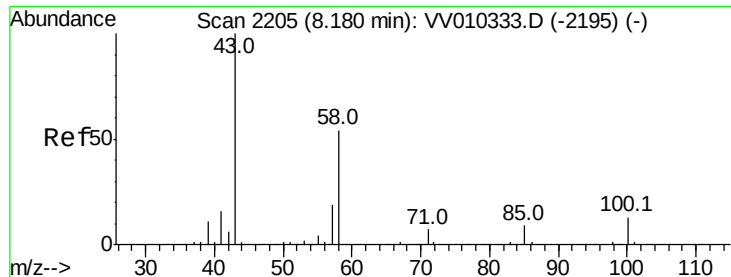
Ion 164.00 (163.70 to 164.70): VV010345.D (-2052) (-)

Ion 129.00 (128.70 to 129.70): VV010345.D (-2052) (-)

Ion 131.00 (130.70 to 131.70): VV010345.D (-2052) (-)

Ion 166.00 (165.70 to 166.70): VV010345.D (-2052) (-)

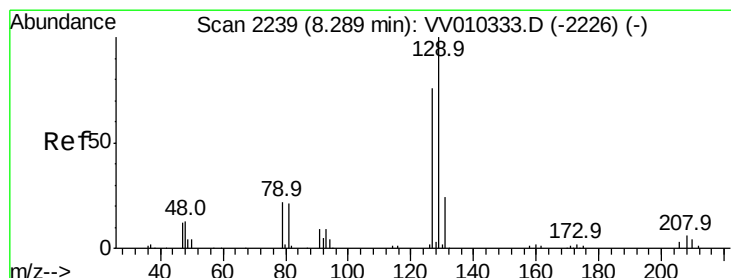
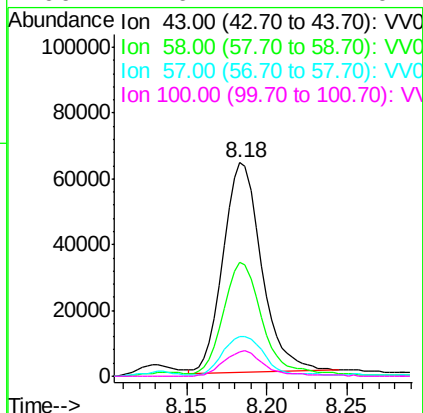
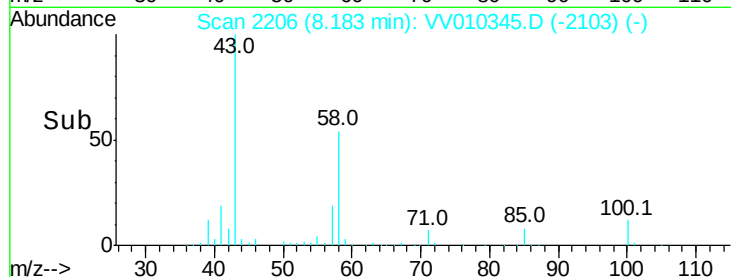
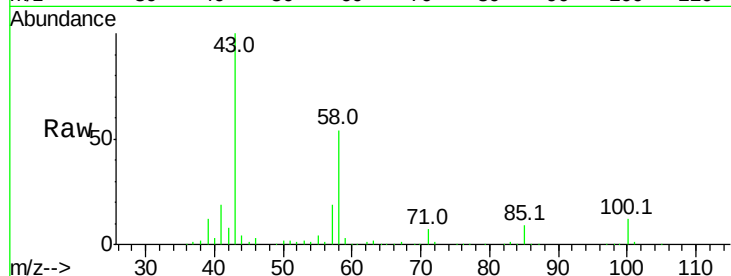




#49
2-Hexanone
Concen: 62.741 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. -0.00 min
Lab File: VV010345.D
Acq: 18 Apr 2019 12:23

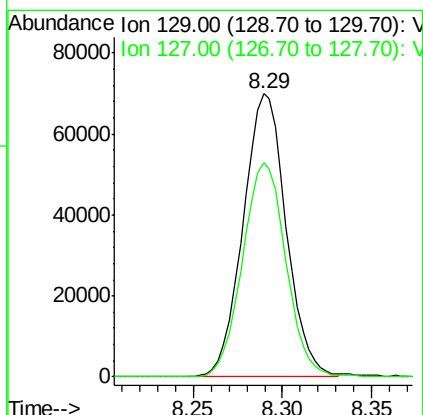
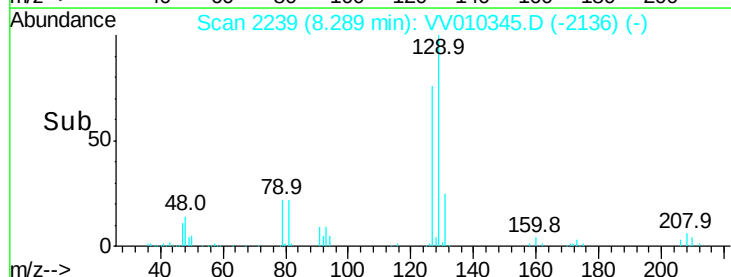
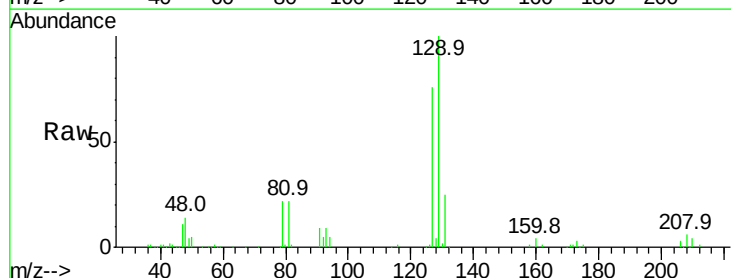
Instrument :
MSVOA_V
ClientSampleId :
VSTD02503

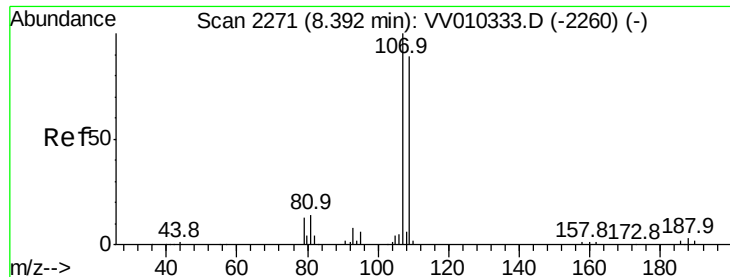
Tgt Ion: 43 Resp: 105398
Ion Ratio Lower Upper
43 100
58 56.1 42.8 64.2
57 19.7 16.2 24.4
100 12.6 11.1 16.7



#50
Dibromochloromethane
Concen: 28.744 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV010345.D
Acq: 18 Apr 2019 12:23

Tgt Ion: 129 Resp: 117748
Ion Ratio Lower Upper
129 100
127 75.7 52.8 98.2





#51

1,2-Dibromoethane

Concen: 26.678 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02503

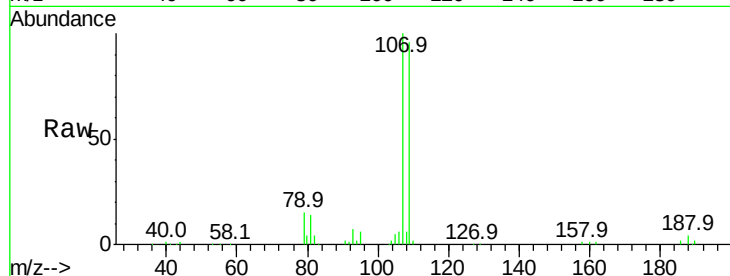
Tgt Ion:107 Resp: 91119

Ion Ratio Lower Upper

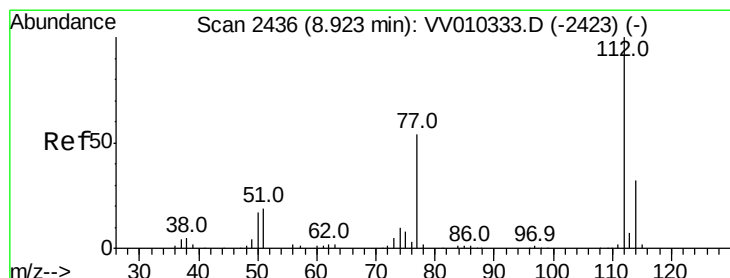
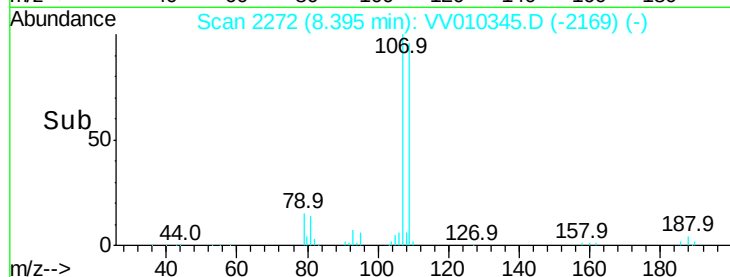
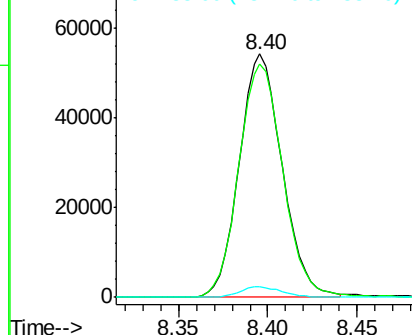
107 100

109 95.9 65.2 121.0

188 4.5 2.7 4.1#



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 24.857 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

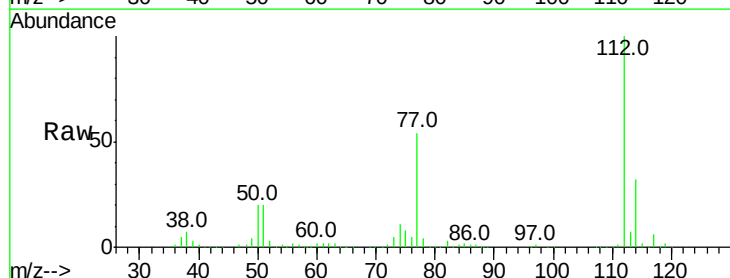
Tgt Ion:112 Resp: 314596

Ion Ratio Lower Upper

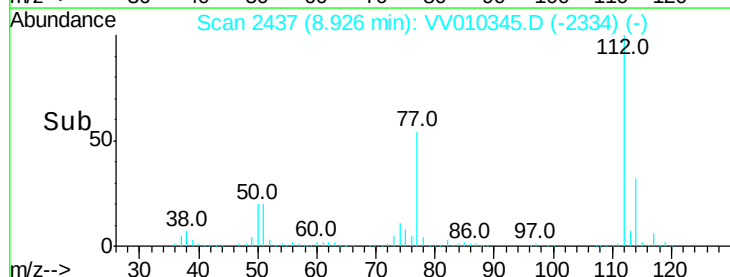
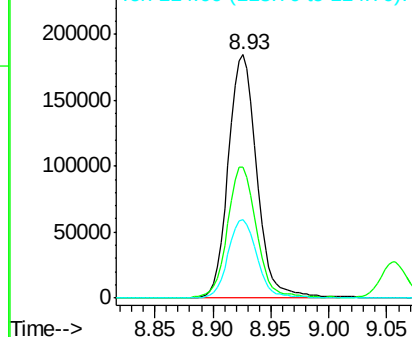
112 100

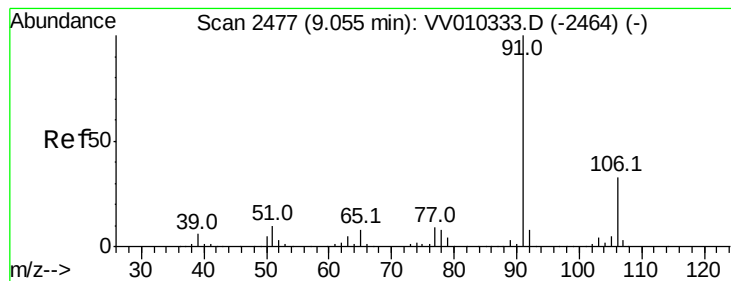
77 53.7 42.2 63.2

114 32.2 23.4 43.4



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): V
Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 25.904 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

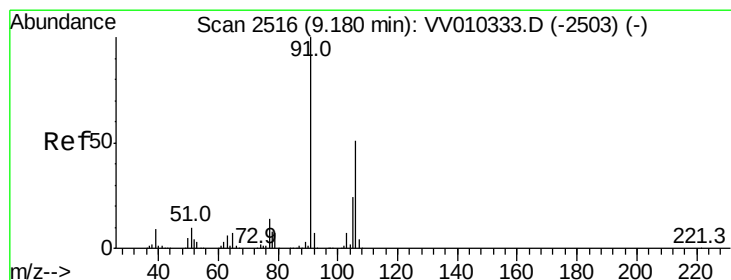
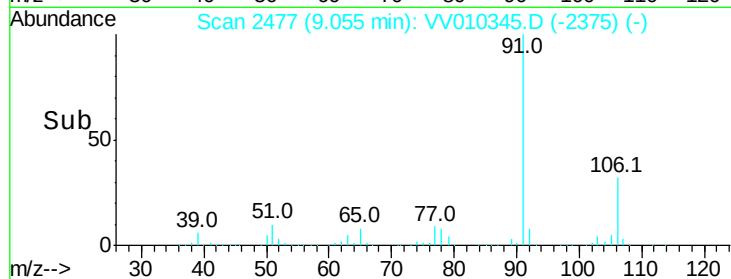
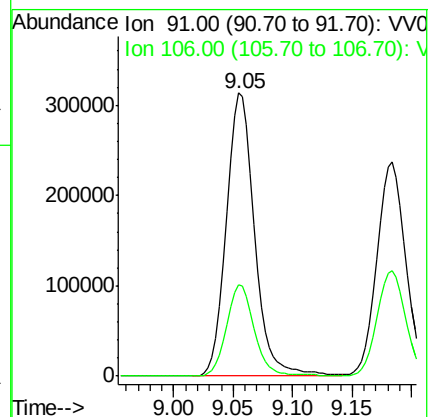
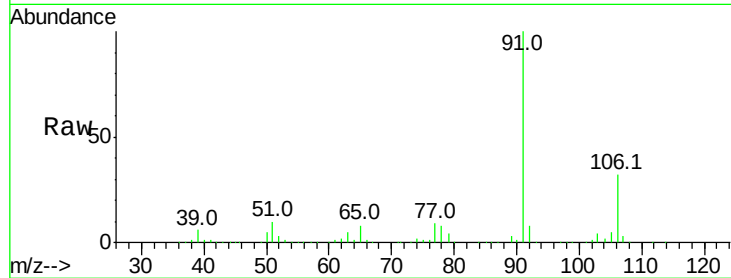
VSTD02503

Tgt Ion: 91 Resp: 518079

Ion Ratio Lower Upper

91 100

106 32.2 22.5 41.9



#54

m,p-Xylene

Concen: 25.064 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. -0.00 min

Lab File: VV010345.D

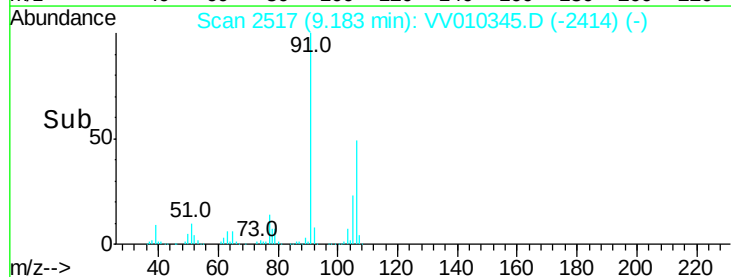
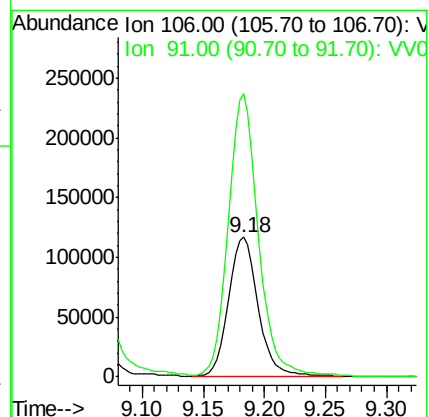
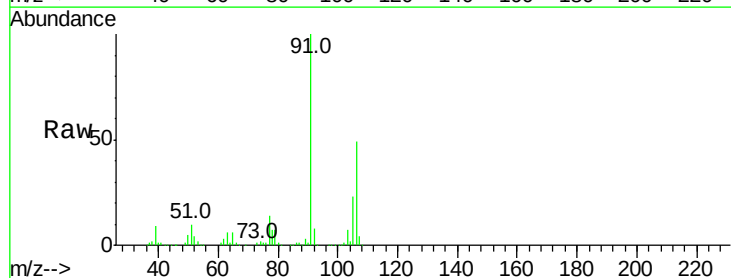
Acq: 18 Apr 2019 12:23

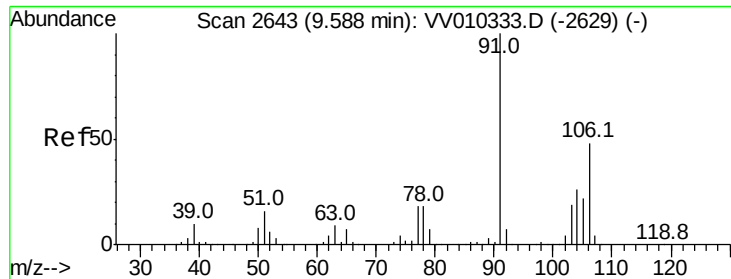
Tgt Ion: 106 Resp: 197754

Ion Ratio Lower Upper

106 100

91 202.3 136.6 253.6





#55

o-xylene

Concen: 24.964 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

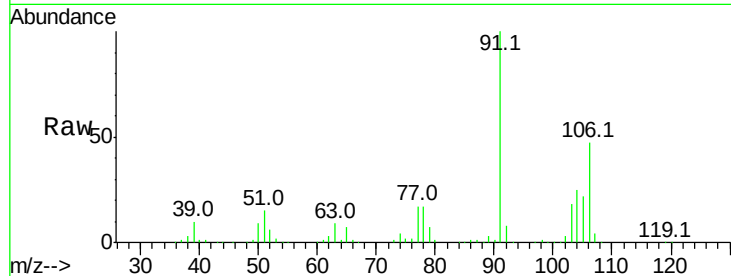
Instrument :
MSVOA_V
ClientSampleId :
VSTD02503

Tgt Ion:106 Resp: 196140

Ion Ratio Lower Upper

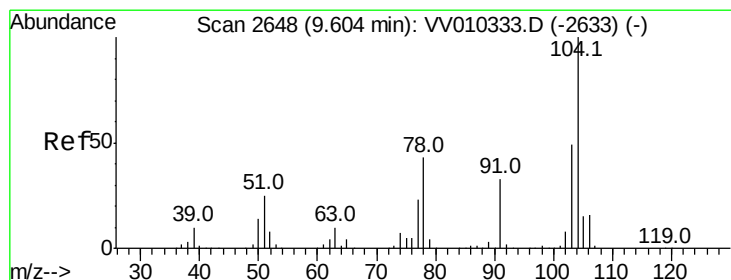
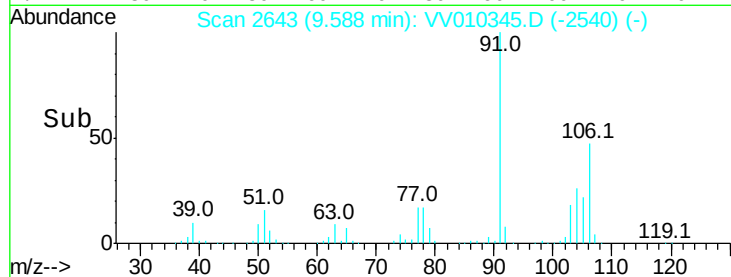
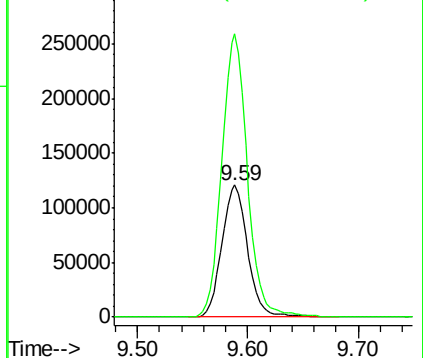
106 100

91 214.5 139.4 259.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 26.921 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VV010345.D

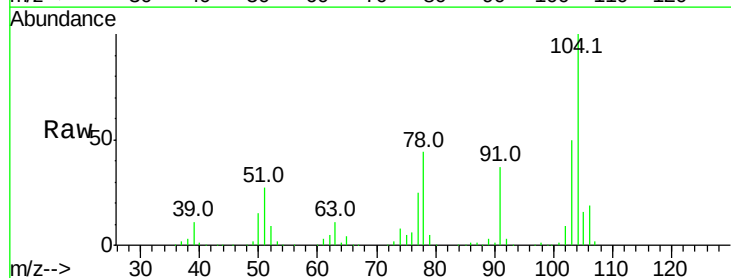
Acq: 18 Apr 2019 12:23

Tgt Ion:104 Resp: 336779

Ion Ratio Lower Upper

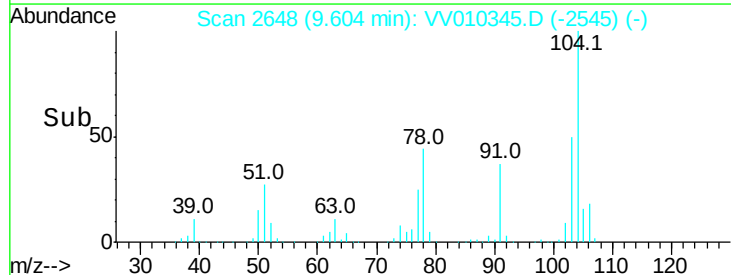
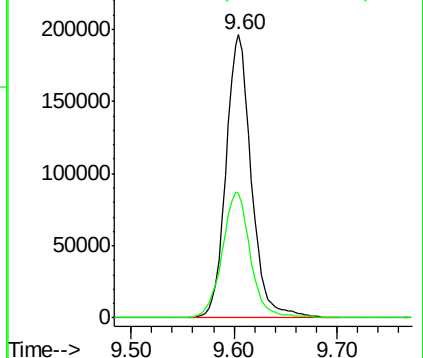
104 100

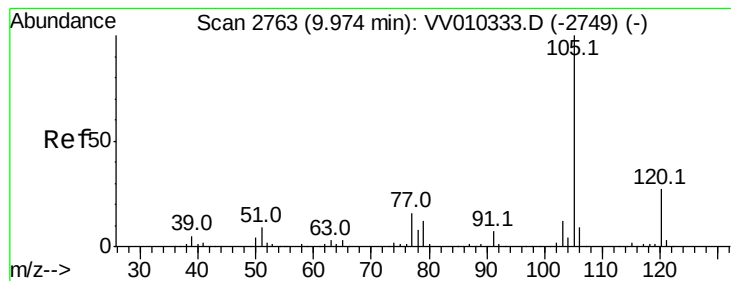
78 43.8 30.3 56.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 26.073 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02503

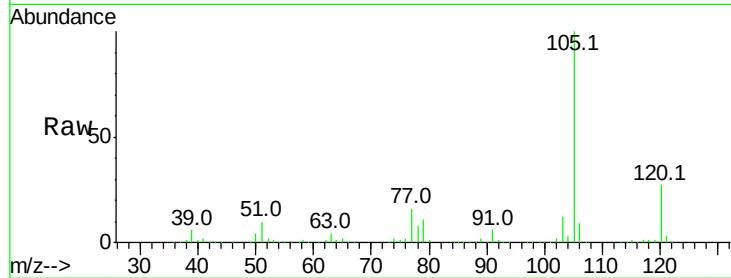
Tgt Ion:105 Resp: 520654

Ion Ratio Lower Upper

105 100

120 27.4 22.2 33.2

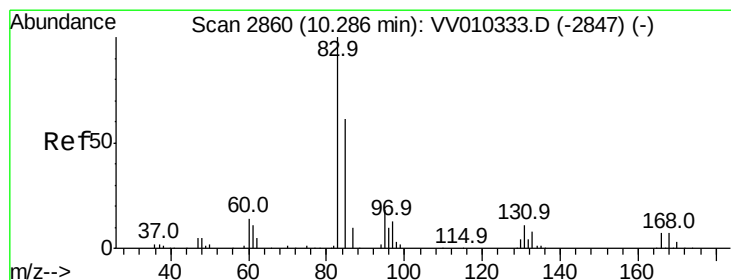
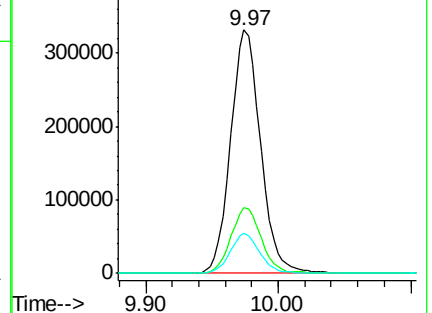
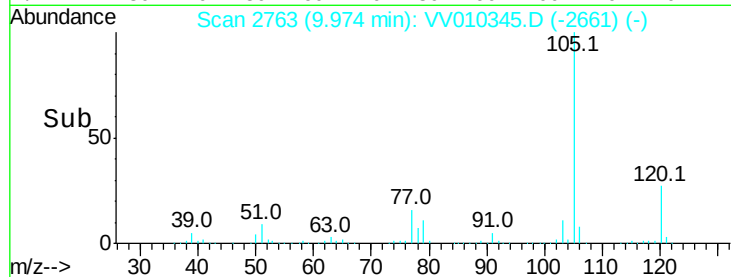
77 16.3 12.2 18.4



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



#58

1,1,2,2-Tetrachloroethane

Concen: 28.039 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

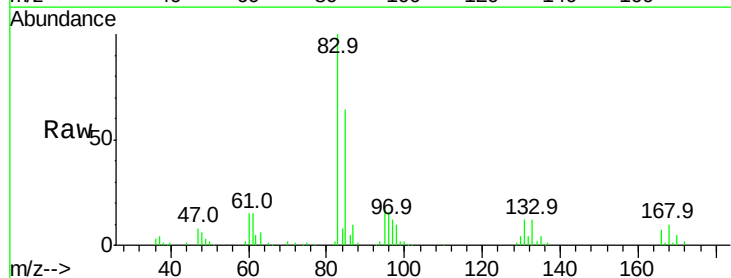
Tgt Ion: 83 Resp: 116050

Ion Ratio Lower Upper

83 100

85 64.1 44.9 83.5

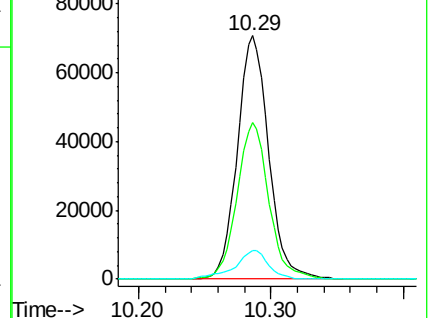
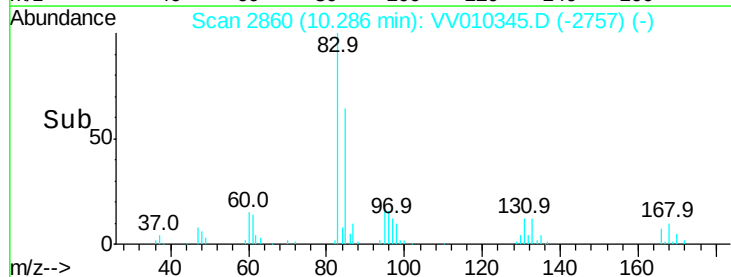
131 11.8 9.2 13.8

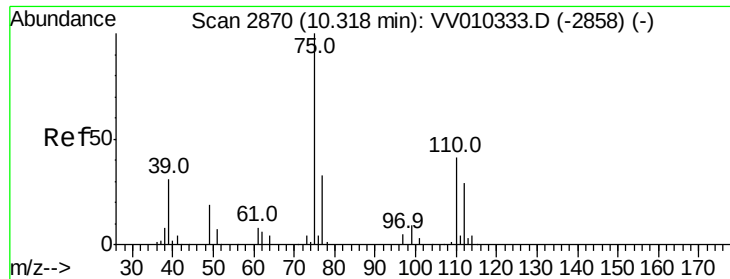


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 28.068 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

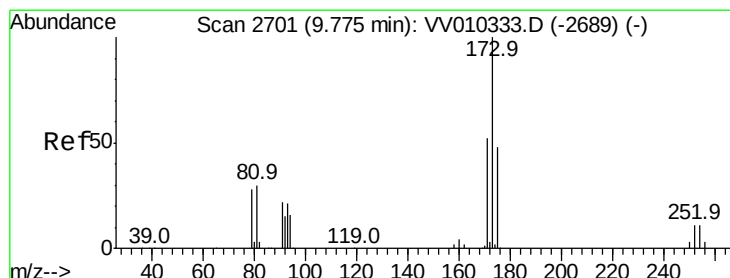
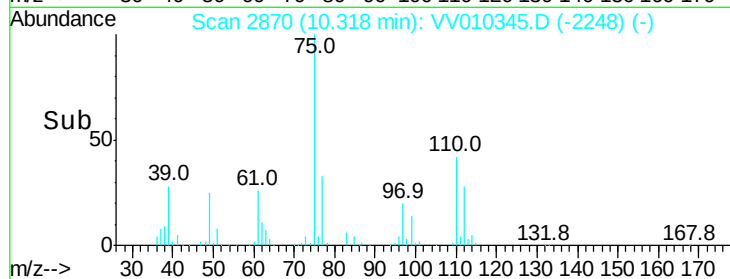
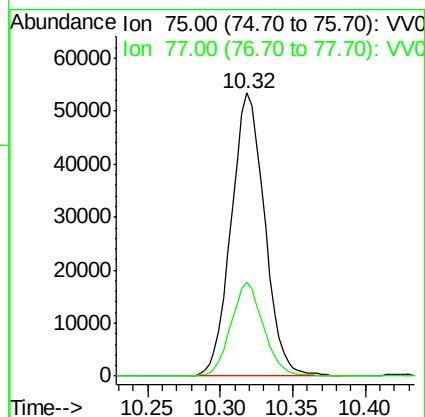
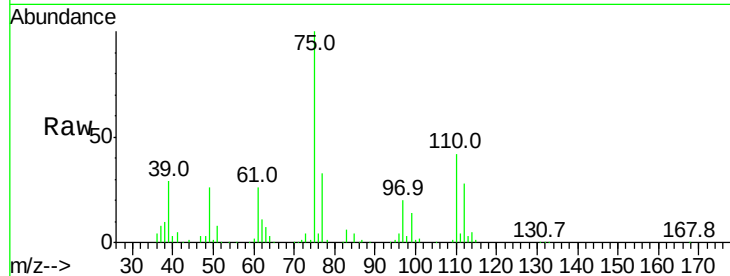
VSTD02503

Tgt Ion: 75 Resp: 85498

Ion Ratio Lower Upper

75 100

77 32.3 26.9 40.3



#62

Bromoform

Concen: 28.202 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

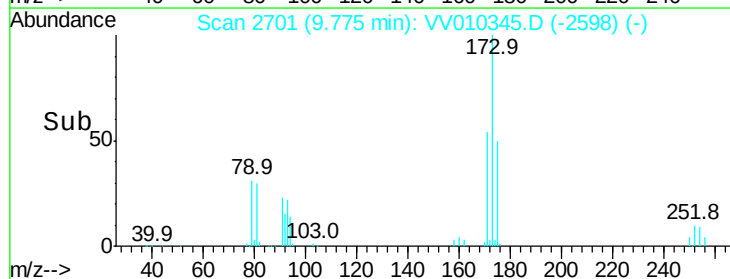
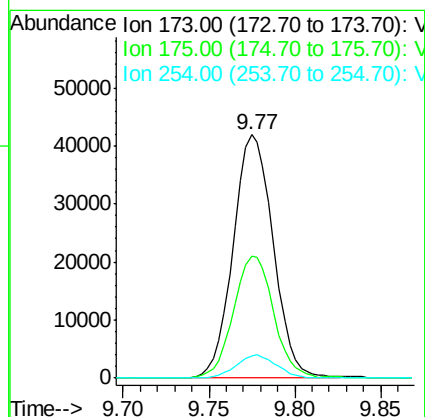
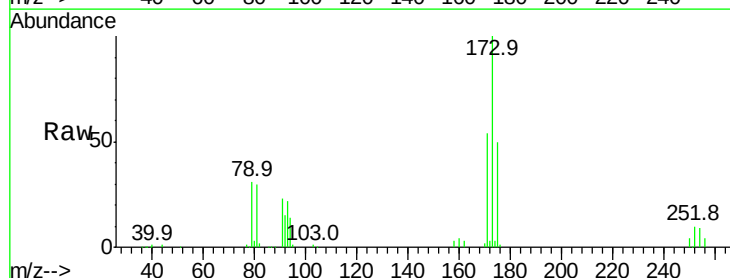
Tgt Ion: 173 Resp: 68164

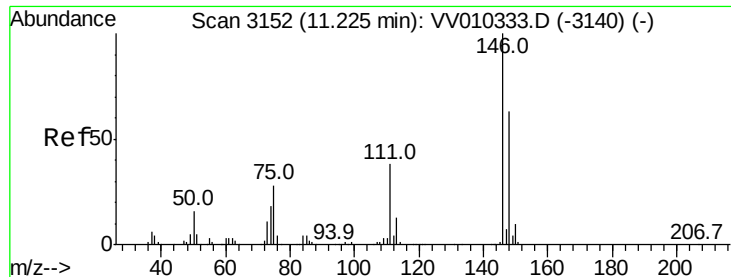
Ion Ratio Lower Upper

173 100

175 50.0 40.3 60.5

254 9.7 8.0 12.0

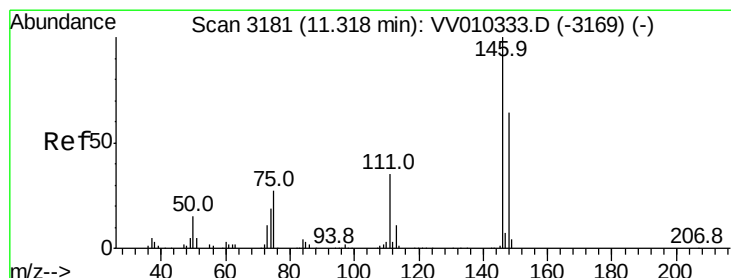
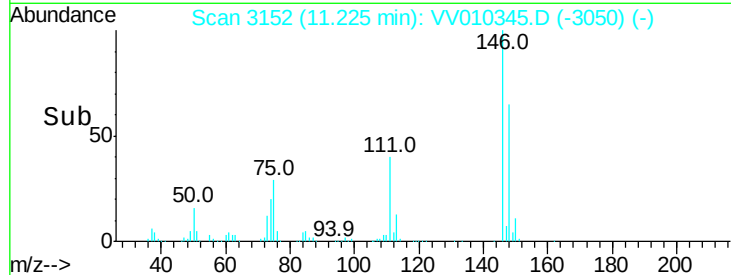
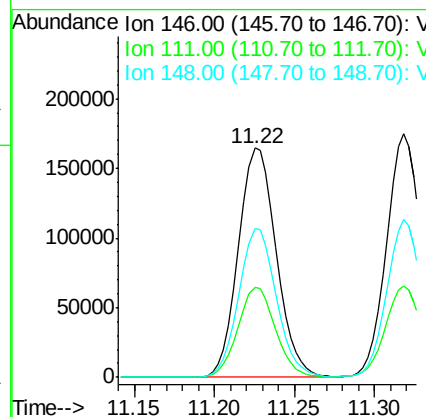
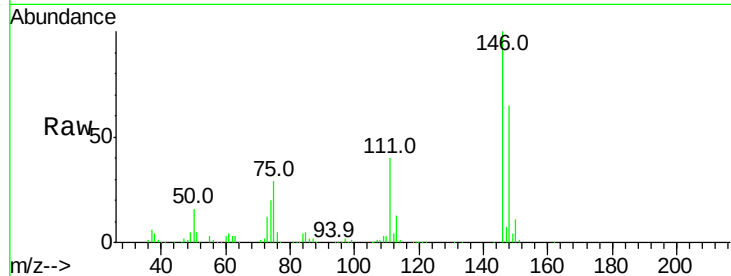




#63
 1,3-Dichlorobenzene
 Concen: 25.786 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. -0.00 min
 Lab File: VV010345.D
 Acq: 18 Apr 2019 12:23

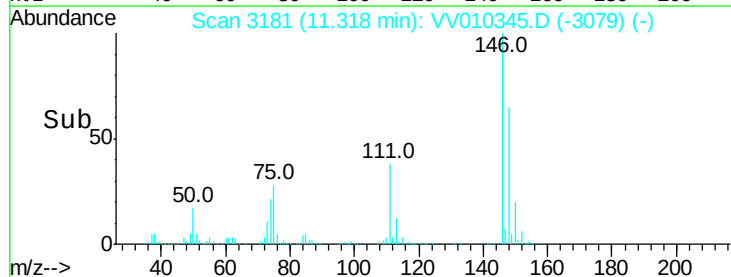
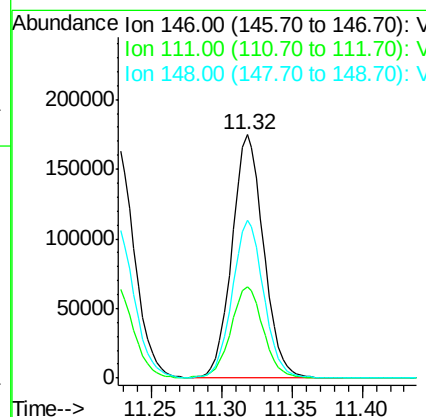
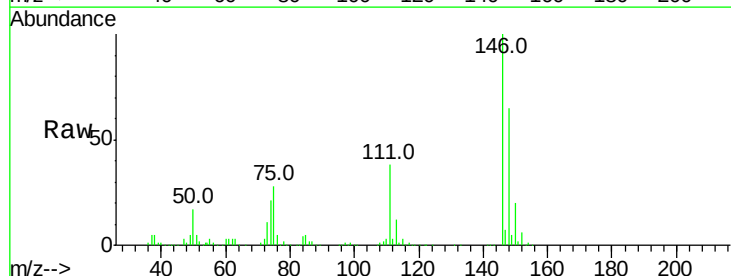
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02503

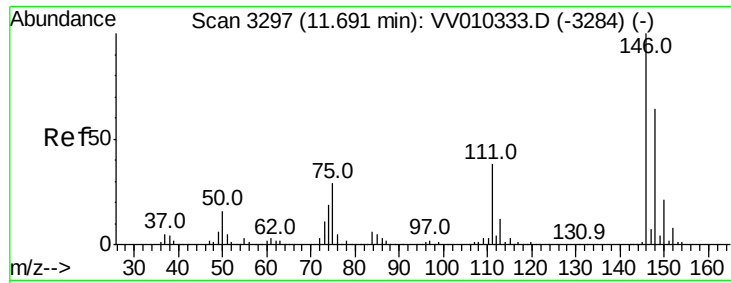
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.5	26.2	48.8
148	64.7	43.2	80.2



#64
 1,4-Dichlorobenzene
 Concen: 26.168 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV010345.D
 Acq: 18 Apr 2019 12:23

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.7	26.5	49.3
148	64.7	45.3	84.1

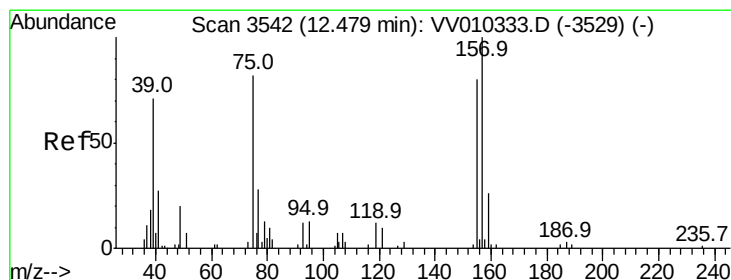
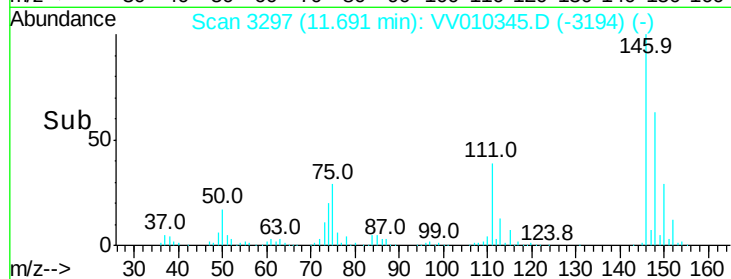
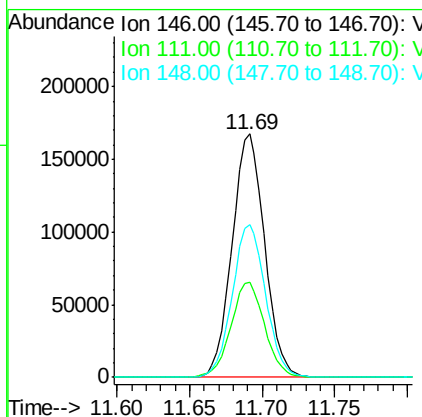
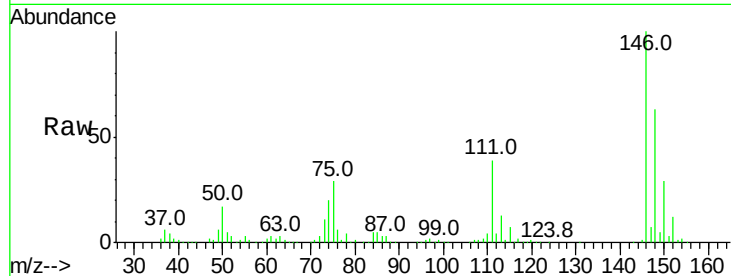




#65
 1,2-Dichlorobenzene
 Concen: 26.419 ug/L
 RT: 11.69 min Scan# 3297
 Delta R.T. -0.00 min
 Lab File: VV010345.D
 Acq: 18 Apr 2019 12:23

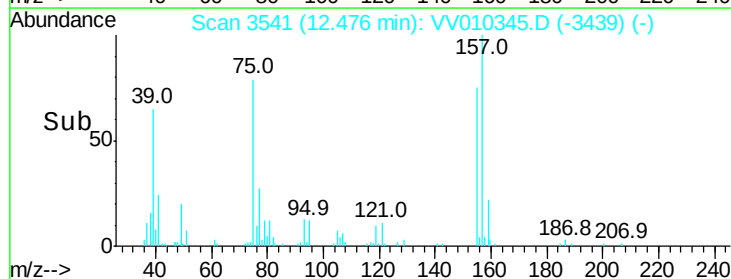
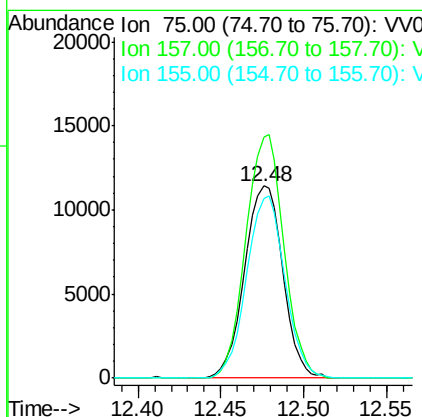
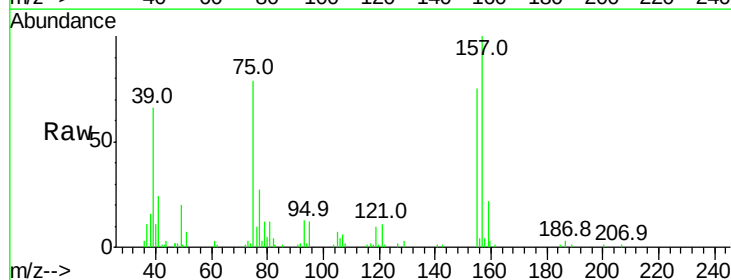
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02503

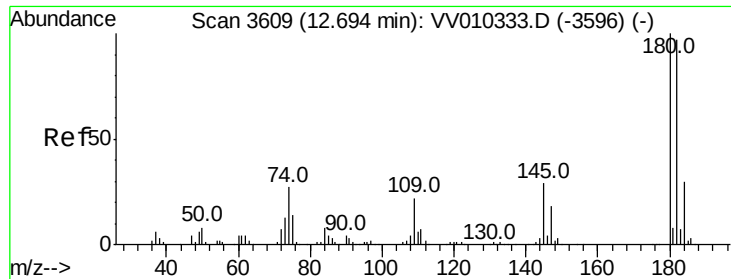
Tgt Ion: 146 Resp: 260413
 Ion Ratio Lower Upper
 146 100
 111 38.9 32.5 48.7
 148 62.9 50.7 76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 32.966 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. -0.00 min
 Lab File: VV010345.D
 Acq: 18 Apr 2019 12:23

Tgt Ion: 75 Resp: 18383
 Ion Ratio Lower Upper
 75 100
 157 125.8 97.4 146.2
 155 93.9 72.5 108.7

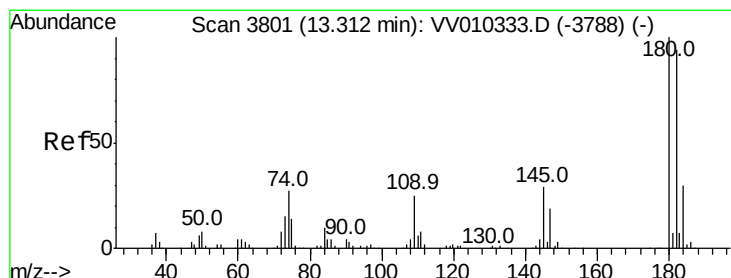
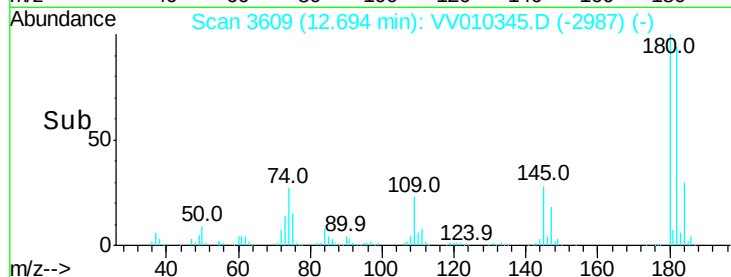
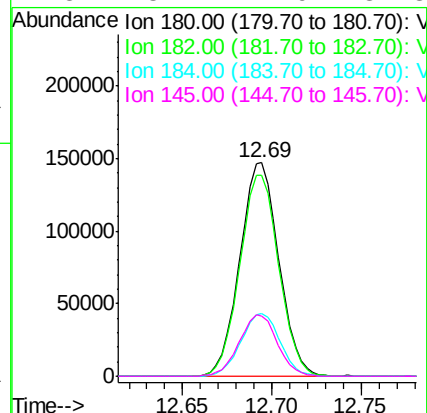
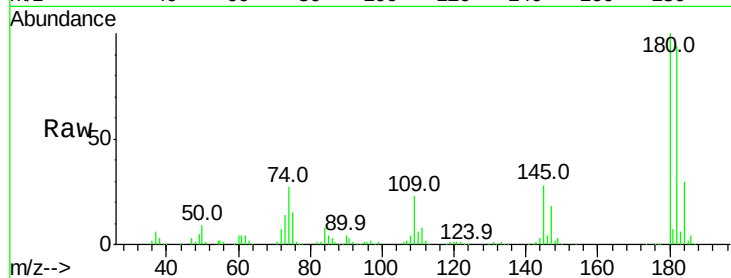




#67
 1,3,5-Trichlorobenzene
 Concen: 29.424 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV010345.D
 Acq: 18 Apr 2019 12:23

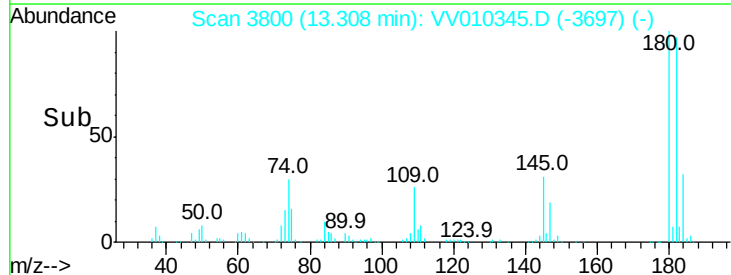
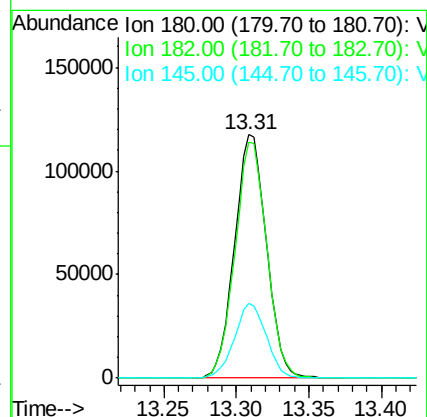
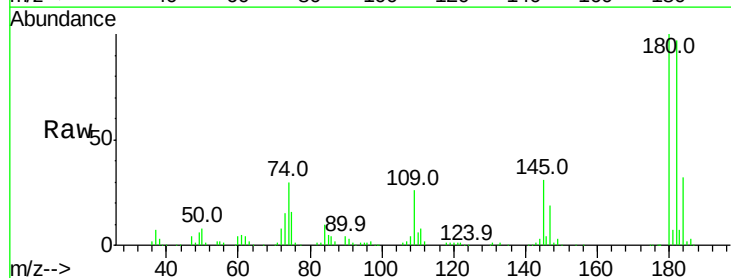
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02503

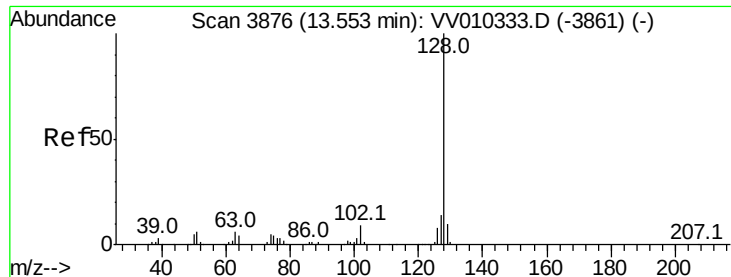
Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.4	75.5	113.3
184	29.5	23.8	35.8
145	28.2	22.9	34.3



#68
 1,2,4-trichlorobenzene
 Concen: 34.204 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV010345.D
 Acq: 18 Apr 2019 12:23

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.6	78.8	118.2
145	30.6	24.5	36.7





#69

Naphthalene

Concen: 45.531 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02503

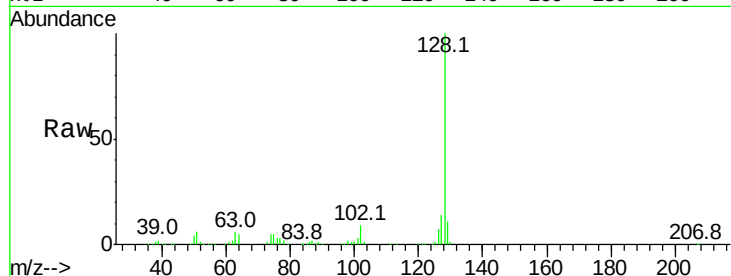
Tgt Ion:128 Resp: 324405

Ion Ratio Lower Upper

128 100

129 10.9 9.0 13.4

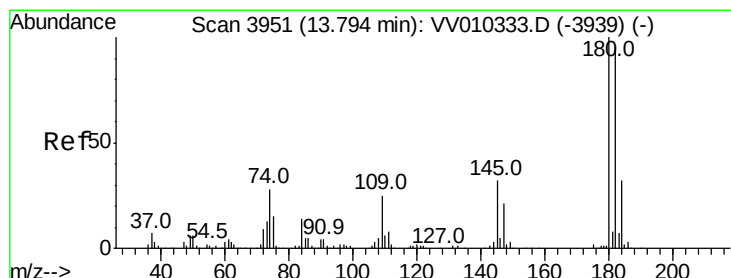
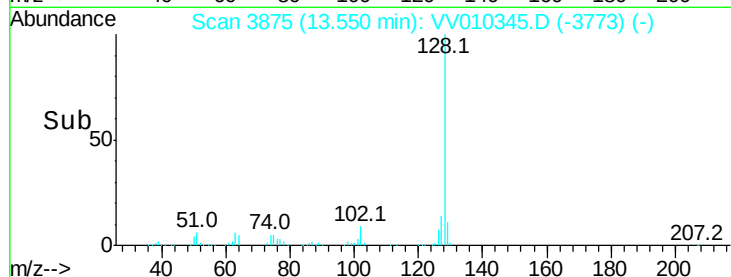
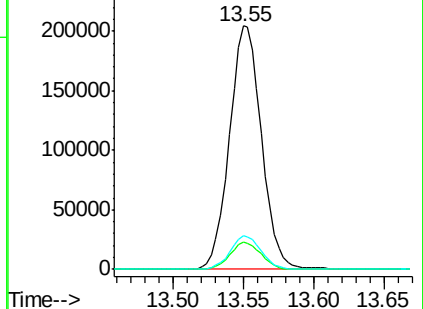
127 13.4 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 36.122 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. -0.00 min

Lab File: VV010345.D

Acq: 18 Apr 2019 12:23

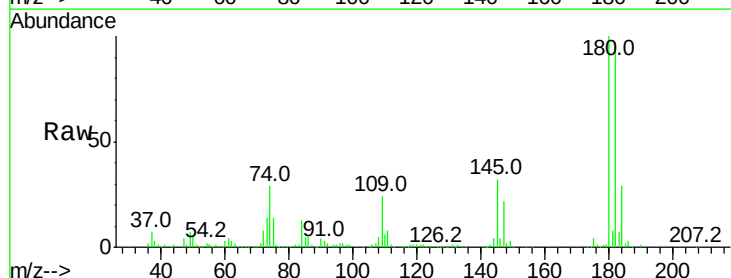
Tgt Ion:180 Resp: 175640

Ion Ratio Lower Upper

180 100

182 96.7 76.2 114.4

145 31.4 24.9 37.3



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

