

Data File : VV009285.D
Acq On : 12 Feb 2019 13:48
Operator : SY/MD
Sample : VSTD05064
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD05064

Quant Time: Feb 13 07:19:31 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM021219S.M
Quant Title : VOC Analysis
QLast Update : Wed Feb 13 07:15:20 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	220949	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	207926	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	104020	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	181227	79.36	ug/L	0.00
7) Chloroethane-d5	1.57	69	103030	58.84	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	372007	63.88	ug/L	0.00
20) 2-Butanone-d5	3.94	46	168986	159.60	ug/L	0.00
24) Chloroform-d	4.40	84	345132	63.82	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	204425	67.74	ug/L	0.00
29) Benzene-d6	5.10	84	671389	62.28	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	206143	65.43	ug/L	0.00
37) Toluene-d8	7.36	98	617845	61.03	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	96956	63.73	ug/L	0.00
39) 2-Hexanone-d5	8.14	63	109243	168.36	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	200297	64.14	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	206767	52.72	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	183056	50.401	ug/L	99
3) Chloromethane	1.25	50	198560	72.963	ug/L	97
5) Vinyl chloride	1.32	62	207353	74.589	ug/L	96
6) Bromomethane	1.53	94	81941	44.549	ug/L	99
8) Chloroethane	1.59	64	118526	74.783	ug/L	98
9) Trichlorofluoromethane	1.76	101	306045	62.109	ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	171588	56.234	ug/L	99
12) 1,1-Dichloroethene	2.14	96	151171	56.494	ug/L	95
13) Acetone	2.20	43	235018	156.376	ug/L	99
14) Carbon disulfide	2.32	76	593458	66.391	ug/L	100
15) Methyl Acetate	2.46	43	138195	76.875	ug/L	93
16) Methylene chloride	2.53	84	182560	55.536	ug/L	96
17) Methyl tert-butyl Ether	2.81	73	434580	61.093	ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	175185	57.705	ug/L	99
19) 1,1-Dichloroethane	3.23	63	337014	65.932	ug/L	98
21) 2-Butanone	4.02	43	248759	160.809	ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	185265	58.038	ug/L	99
23) Bromochloromethane	4.30	128	82545	55.052	ug/L	95
25) Chloroform	4.43	83	336133	62.826	ug/L	99
27) 1,2-Dichloroethane	5.18	62	247078	65.816	ug/L	100
30) Cyclohexane	4.73	56	342325	69.973	ug/L	99
31) 1,1,1-Trichloroethane	4.66	97	301988	60.244	ug/L	98
32) Carbon tetrachloride	4.88	117	266419	58.520	ug/L	100
34) Benzene	5.15	78	718132	61.814	ug/L	100
35) Trichloroethene	5.96	95	192230	58.546	ug/L	98
36) Methylcyclohexane	6.18	83	335031	60.989	ug/L	98
40) 1,2-Dichloropropane	6.22	63	189867	65.217	ug/L	100
41) Bromodichloromethane	6.56	83	244289	62.480	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	290507	65.736	ug/L	99
43) 4-Methyl-2-pentanone	7.28	43	368430	149.591	ug/L	99

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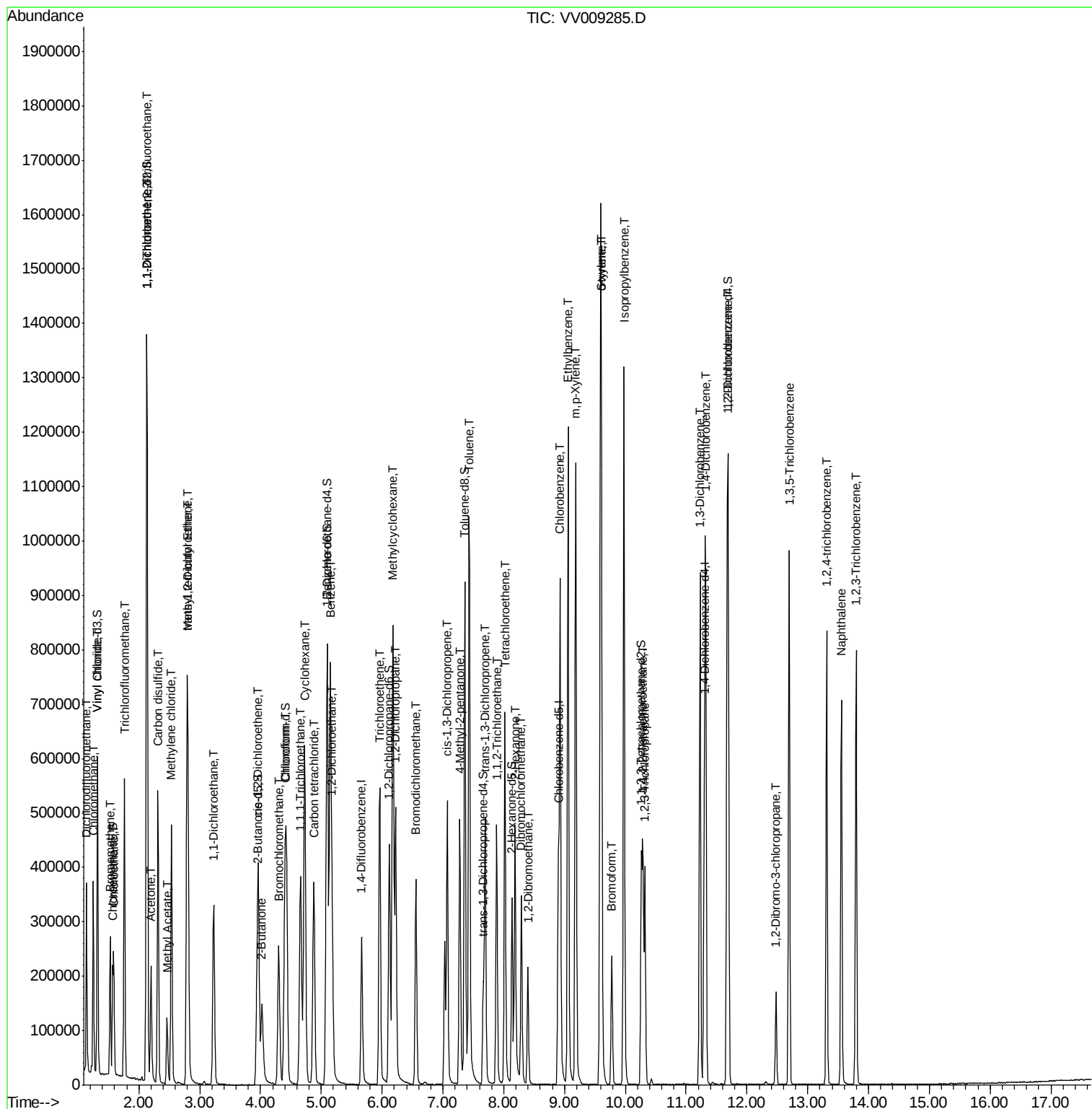
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	769194	61.671	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	256360	64.904	ug/L	98
46) 1,1,2-Trichloroethane	7.88	97	141661	57.619	ug/L	98
47) Tetrachloroethene	8.02	164	145657	53.034	ug/L	99
49) 2-Hexanone	8.19	43	319190	157.978	ug/L	96
50) Dibromochloromethane	8.29	129	169638	57.472	ug/L	98
51) 1,2-Dibromoethane	8.40	107	141016	56.505	ug/L	99
52) Chlorobenzene	8.93	112	467381	55.865	ug/L	98
53) Ethylbenzene	9.06	91	850742	60.724	ug/L	98
54) m,p-Xylene	9.18	106	312482	58.590	ug/L	98
55) o-xylene	9.59	106	295808	58.500	ug/L	98
56) Styrene	9.60	104	515888	60.854	ug/L	99
57) Isopropylbenzene	9.98	105	825216	59.546	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	202802	63.622	ug/L	100
59) 1,2,3-Trichloropropane	10.32	75	156788	61.832	ug/L	99
62) Bromoform	9.78	173	102237	55.777	ug/L	100
63) 1,3-Dichlorobenzene	11.23	146	355546	53.289	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	364777	53.563	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	340354	53.778	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	42394	67.283	ug/L	98
67) 1,3,5-Trichlorobenzene	12.69	180	275119	52.119	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	227884	53.925	ug/L	99
69) Naphthalene	13.55	128	517278	61.677	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	215373	55.269	ug/L	99

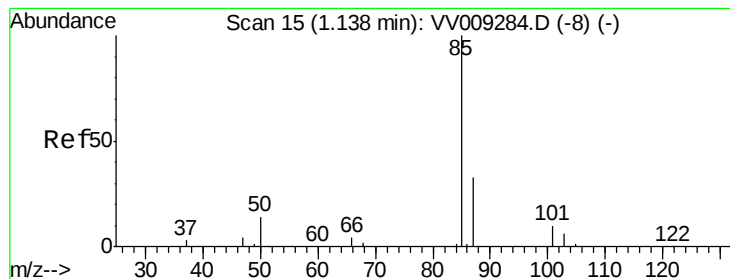
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 50.401 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV009285.D

Acq: 12 Feb 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

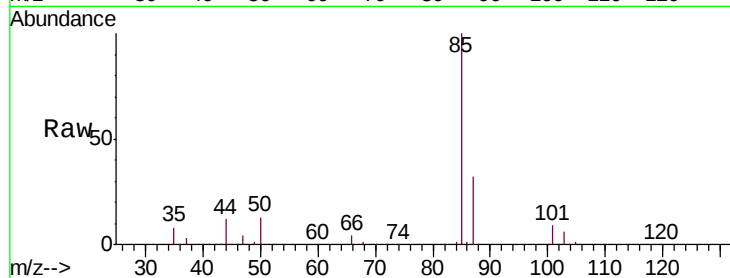
VSTD05064

Tgt Ion: 85 Resp: 183056

Ion Ratio Lower Upper

85 100

87 32.0 22.7 42.3



Abundance Ion 85.00 (84.70 to 85.70): VV009284.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV009284.D (-8) (-)

1.14

200000

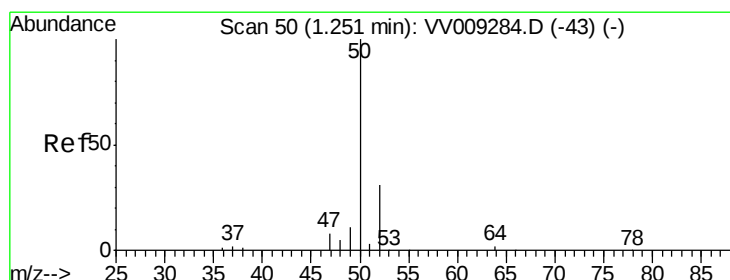
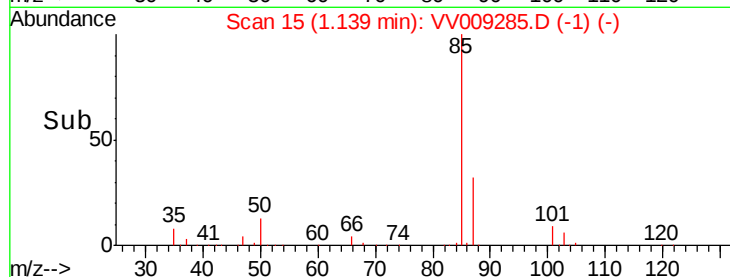
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 72.963 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV009285.D

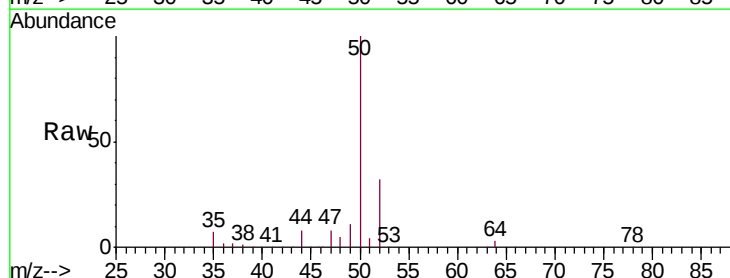
Acq: 12 Feb 2019 13:48

Tgt Ion: 50 Resp: 198560

Ion Ratio Lower Upper

50 100

52 32.2 21.5 39.9



Abundance Ion 50.00 (49.70 to 50.70): VV009284.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV009284.D (-43) (-)

1.25

200000

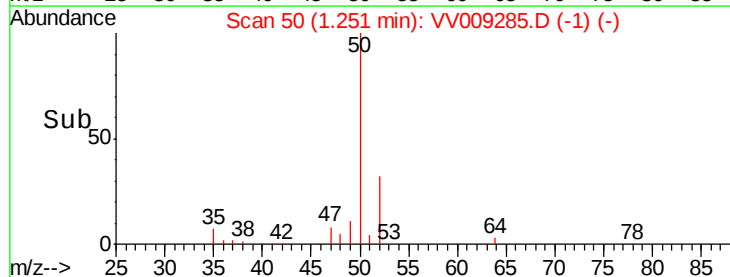
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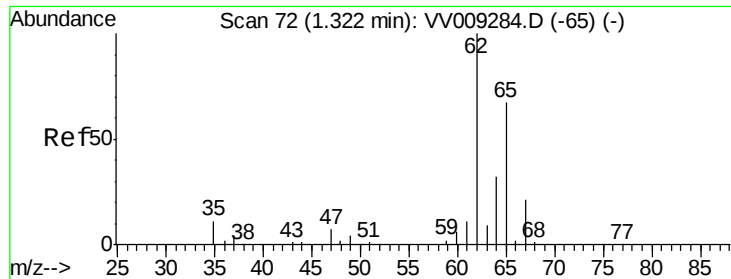
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 74.589 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV009285.D

Acq: 12 Feb 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

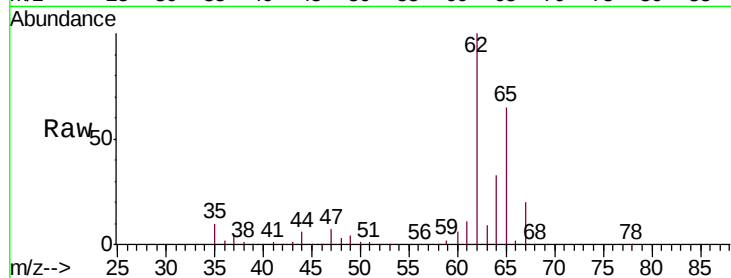
VSTD05064

Tgt Ion: 62 Resp: 207353

Ion Ratio Lower Upper

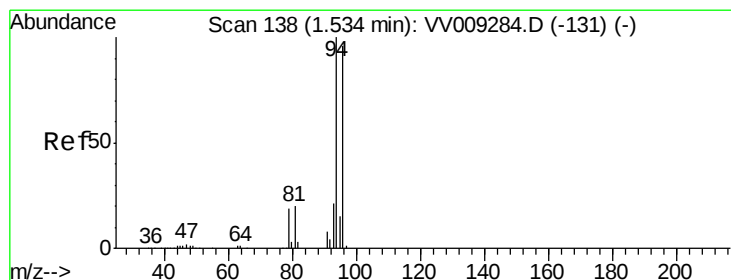
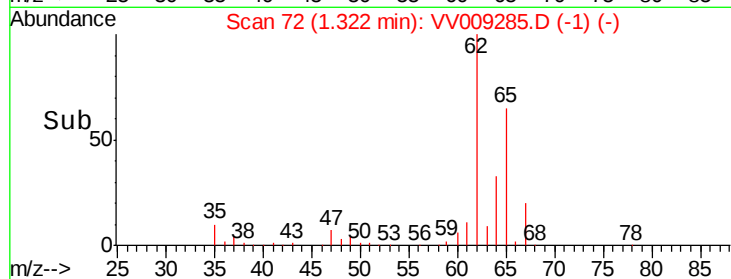
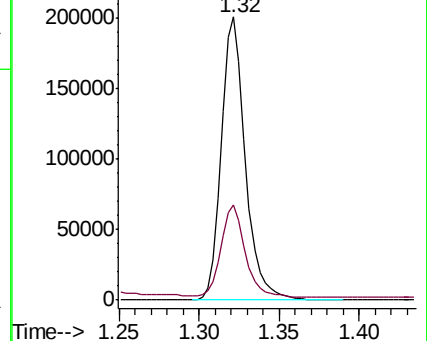
62 100

64 33.5 24.9 46.3



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 44.549 ug/L

RT: 1.53 min Scan# 136

Delta R.T. -0.01 min

Lab File: VV009285.D

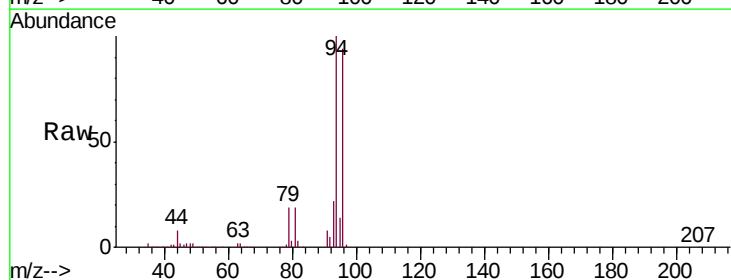
Acq: 12 Feb 2019 13:48

Tgt Ion: 94 Resp: 81941

Ion Ratio Lower Upper

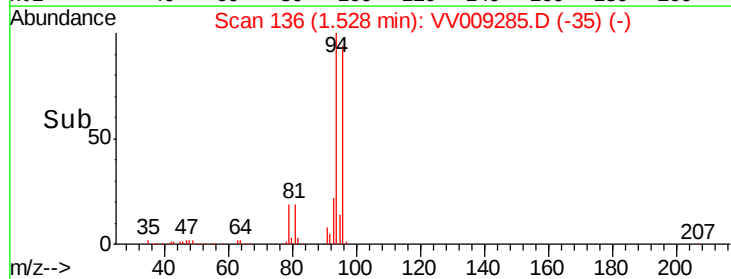
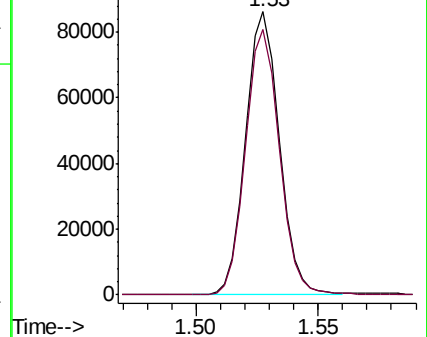
94 100

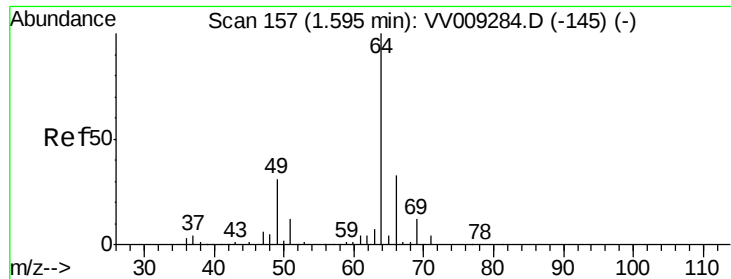
96 95.2 9.5 179.7



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 74.783 ug/L

RT: 1.59 min Scan# 154

Delta R.T. -0.01 min

Lab File: VV009285.D

Acq: 12 Feb 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

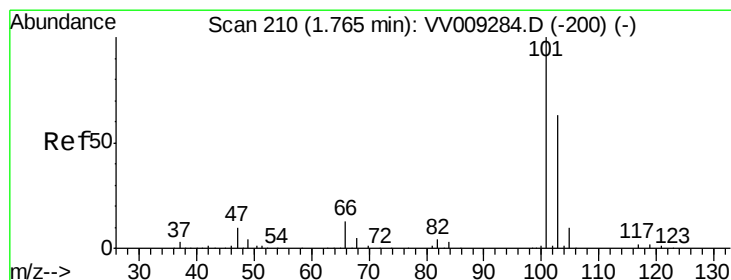
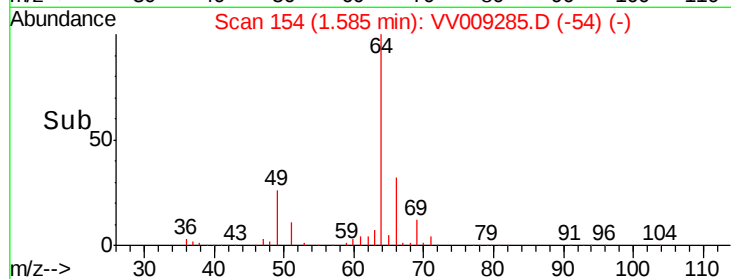
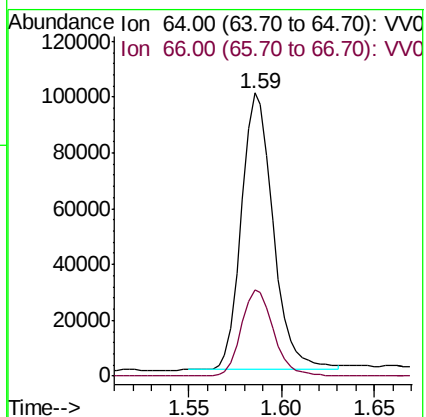
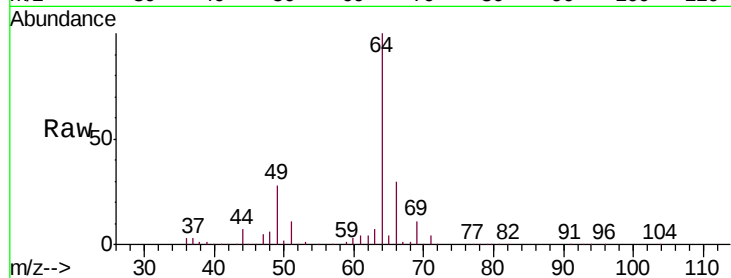
VSTD05064

Tgt Ion: 64 Resp: 118526

Ion Ratio Lower Upper

64 100

66 30.4 21.9 40.7



#9

Trichlorofluoromethane

Concen: 62.109 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV009285.D

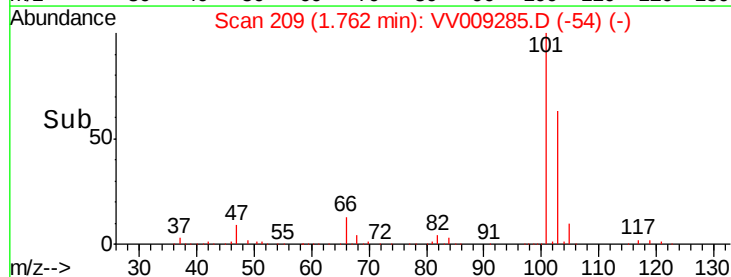
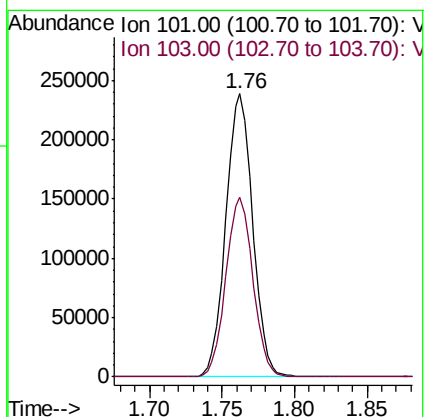
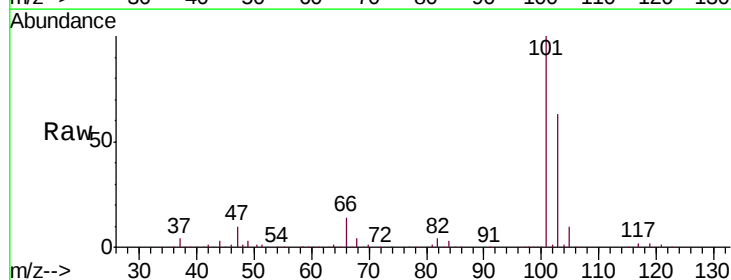
Acq: 12 Feb 2019 13:48

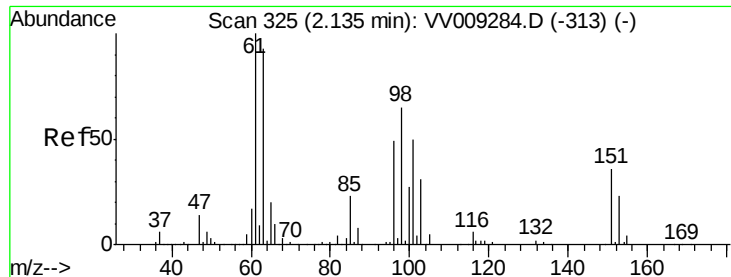
Tgt Ion: 101 Resp: 306045

Ion Ratio Lower Upper

101 100

103 63.8 44.6 82.8





#11

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

Concen: 56.234 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV009285.D

Acq: 12 Feb 2019 13:48

Instrument :

MSVOA_V

ClientSampled :

VSTD05064

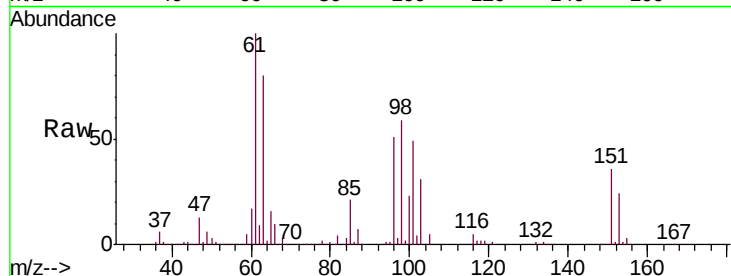
Tgt Ion: 101 Resp: 171588

Ion Ratio Lower Upper

101 100

85 44.5 36.5 54.7

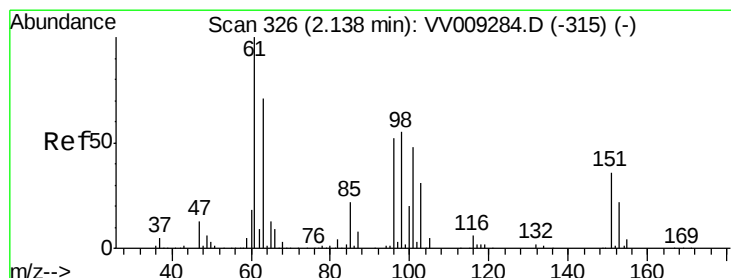
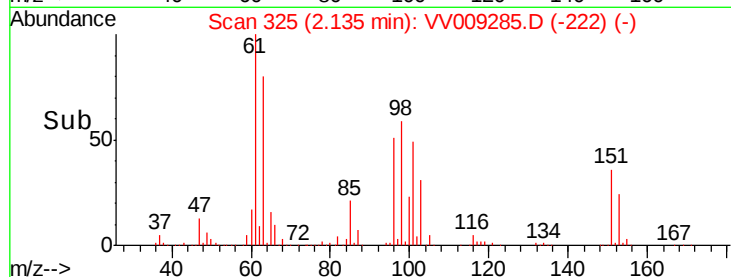
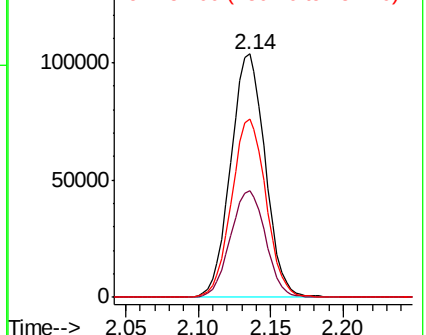
151 73.3 58.4 87.6



Abundance Ion 101.00 (100.70 to 101.70): VV009285.D (-222) (-)

Ion 85.00 (84.70 to 85.70): VV009285.D (-222) (-)

Ion 151.00 (150.70 to 151.70): VV009285.D (-222) (-)



#12

1,1-Dichloroethene

Concen: 56.494 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009285.D

Acq: 12 Feb 2019 13:48

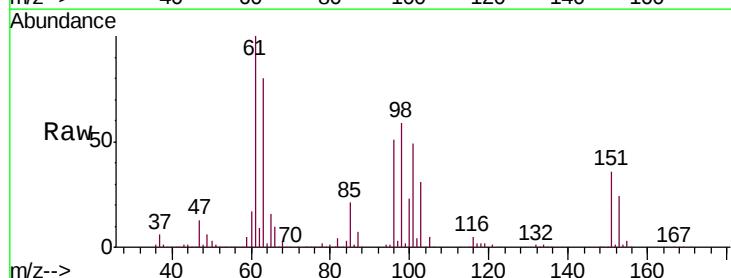
Tgt Ion: 96 Resp: 151171

Ion Ratio Lower Upper

96 100

61 195.9 136.3 253.1

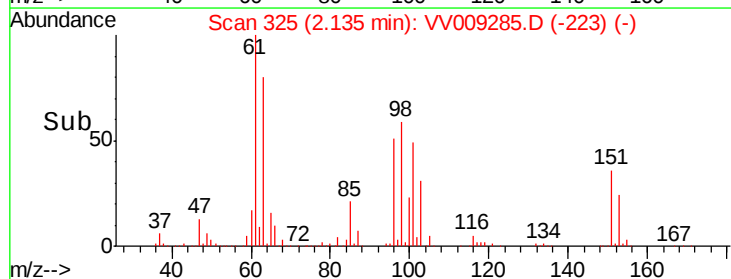
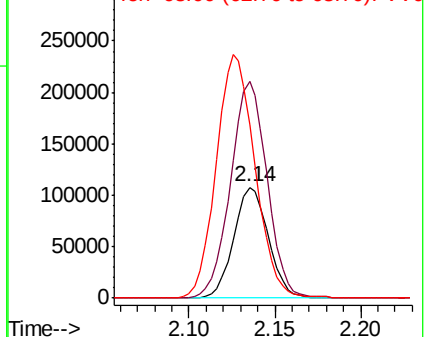
63 157.0 100.0 185.8

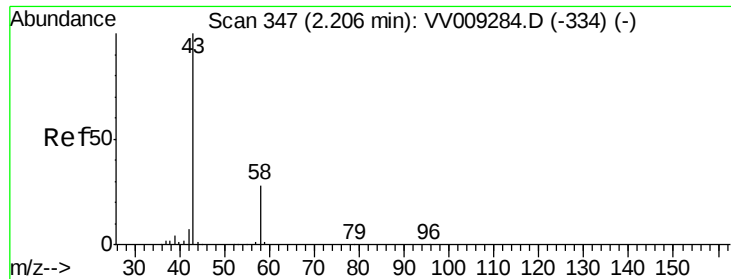


Abundance Ion 96.00 (95.70 to 96.70): VV009285.D (-223) (-)

Ion 61.00 (60.70 to 61.70): VV009285.D (-223) (-)

Ion 63.00 (62.70 to 63.70): VV009285.D (-223) (-)





#13

Acetone

Concen: 156.376 ug/L

RT: 2.20 min Scan# 345

Delta R.T. -0.01 min

Lab File: VV009285.D

Acq: 12 Feb 2019 13:48

Instrument :

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ClientSampleId :

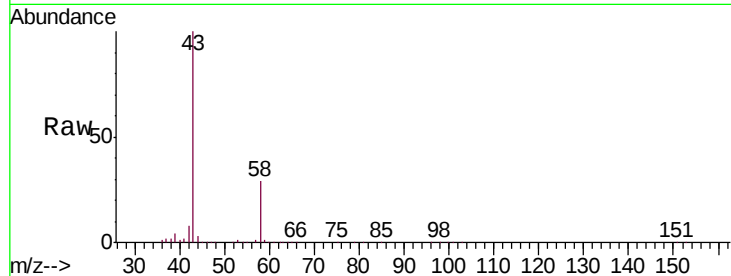
VSTD05064

Tgt Ion: 43 Resp: 235018

Ion Ratio Lower Upper

43 100

58 28.3 0.0 57.4



Abundance Ion 43.00 (42.70 to 43.70): VV009284.D (-334) (-)

Ion 58.00 (57.70 to 58.70): VV009284.D (-334) (-)

2.20

150000

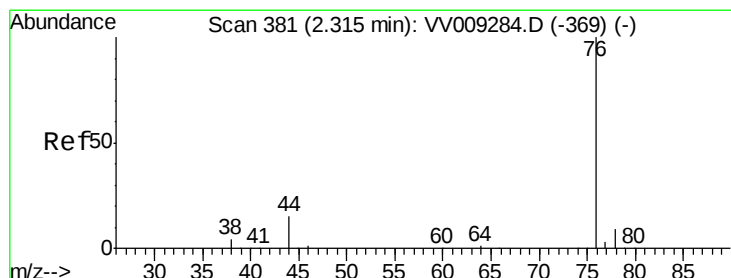
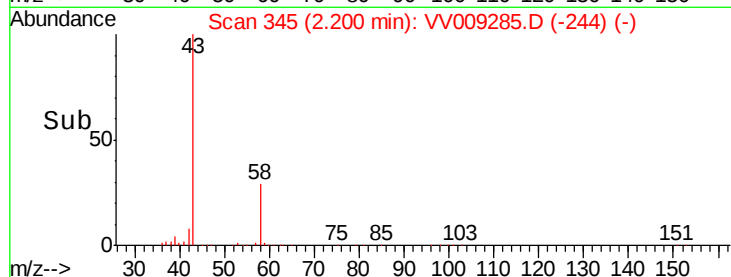
100000

50000

0

Time-->

2.10 2.20 2.30



#14

Carbon disulfide

Concen: 66.391 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV009285.D

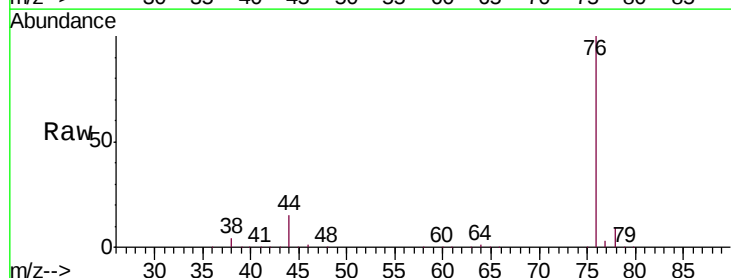
Acq: 12 Feb 2019 13:48

Tgt Ion: 76 Resp: 593458

Ion Ratio Lower Upper

76 100

78 8.9 7.0 10.6



Abundance Ion 76.00 (75.70 to 76.70): VV009284.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV009284.D (-369) (-)

2.32

400000

300000

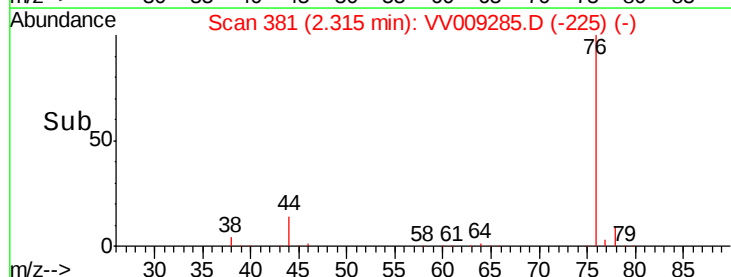
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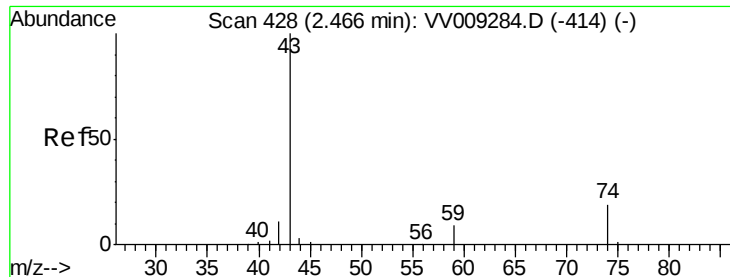
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Time-->

2.25 2.30 2.35 2.40

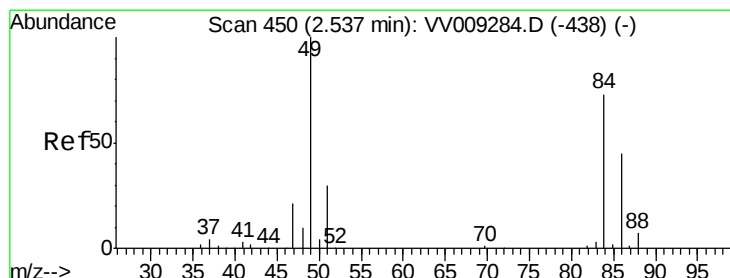
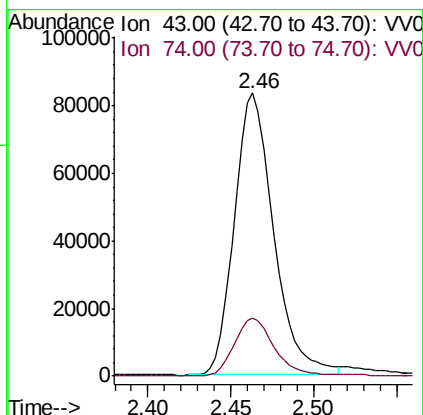
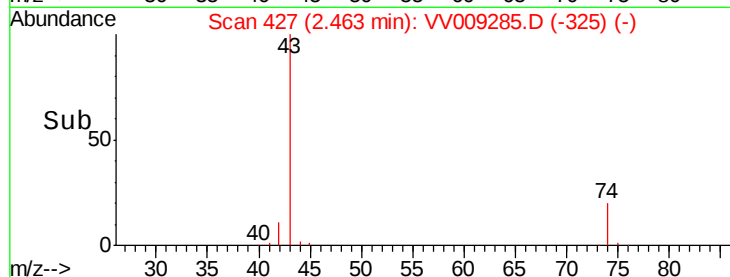
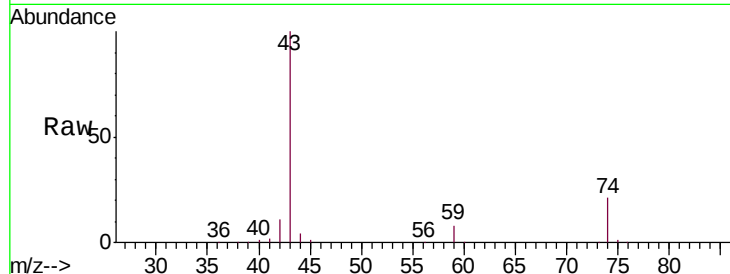




#15
Methyl Acetate
Concen: 76.875 ug/L
RT: 2.46 min Scan# 427
Delta R.T. -0.00 min
Lab File: VV009285.D
Acq: 12 Feb 2019 13:48

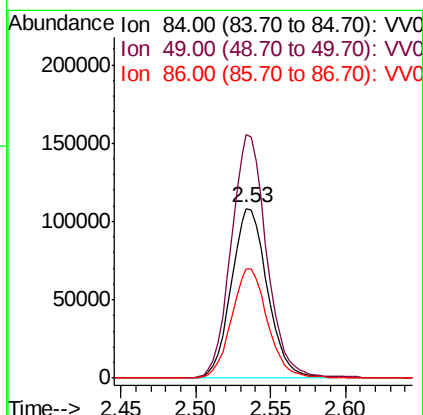
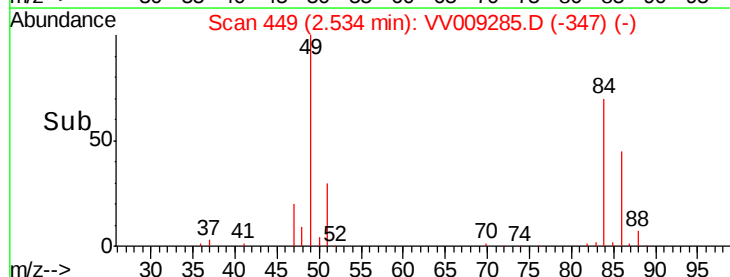
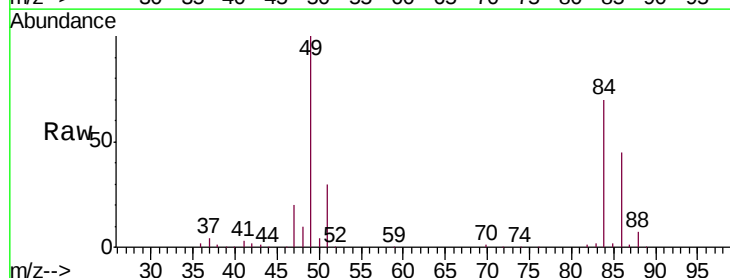
Instrument :
MSVOA_V
ClientSampleId :
VSTD05064

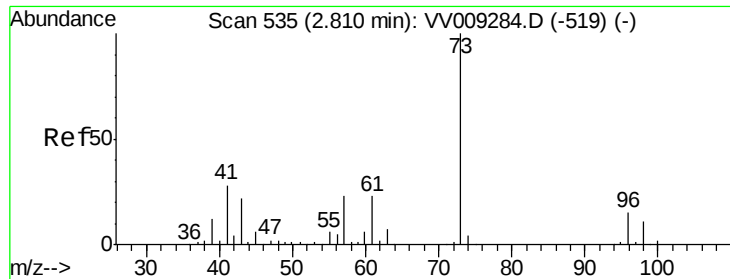
Tgt Ion: 43 Resp: 138195
Ion Ratio Lower Upper
43 100
74 21.6 14.8 22.2



#16
Methylene chloride
Concen: 55.536 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV009285.D
Acq: 12 Feb 2019 13:48

Tgt Ion: 84 Resp: 182560
Ion Ratio Lower Upper
84 100
49 143.4 96.2 178.6
86 64.4 43.5 80.7

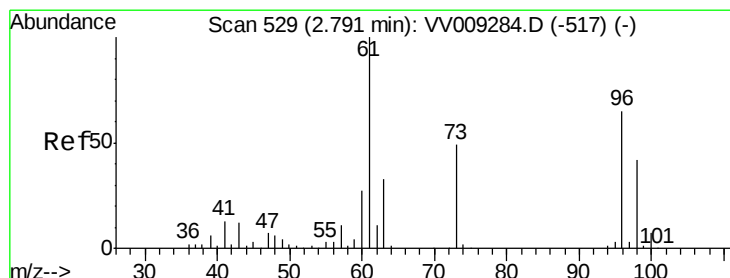
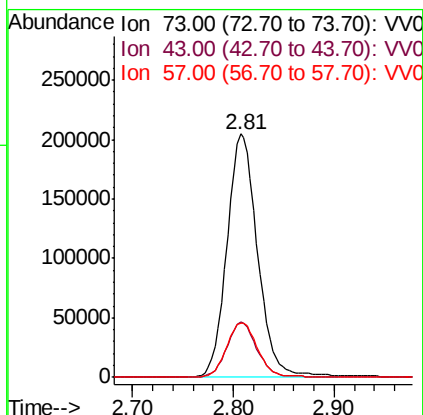
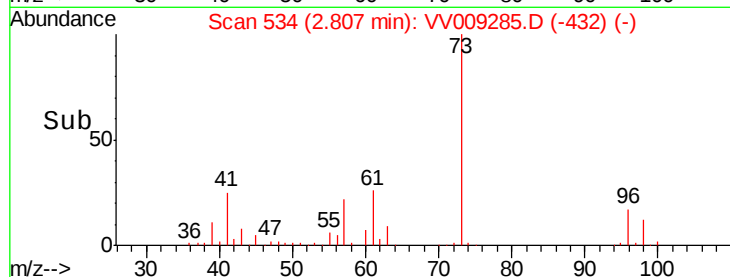
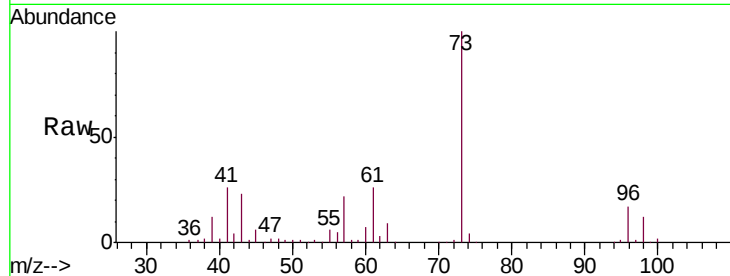




#17
Methyl tert-butyl Ether
Concen: 61.093 ug/L
RT: 2.81 min Scan# 534
Delta R.T. -0.00 min
Lab File: VV009285.D
Acq: 12 Feb 2019 13:48

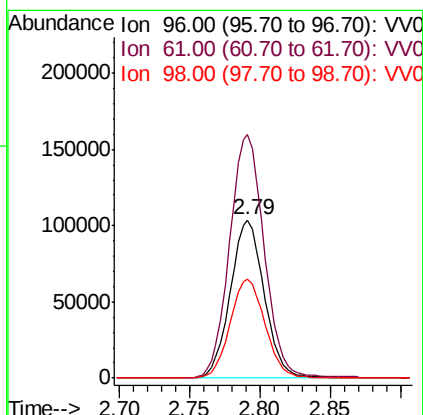
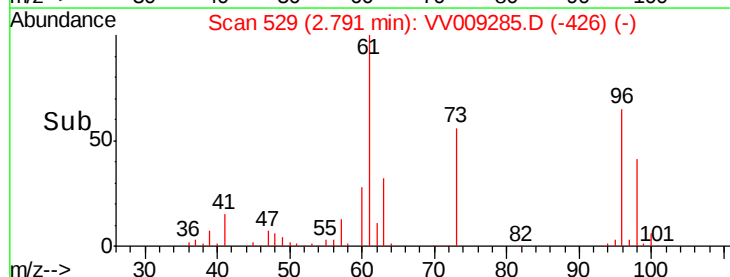
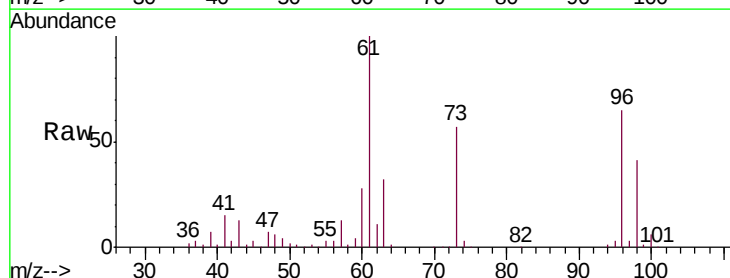
Instrument :
MSVOA_V
ClientSampled :
VSTD05064

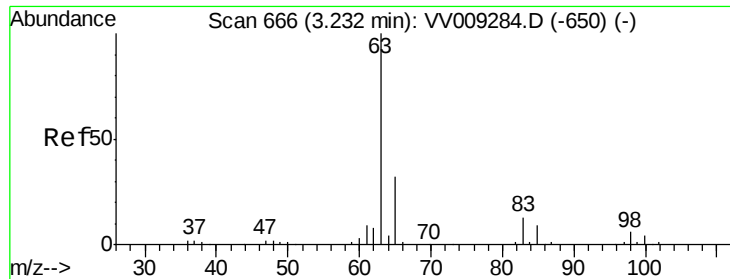
Tgt Ion: 73 Resp: 434580
Ion Ratio Lower Upper
73 100
43 21.9 18.3 27.5
57 22.7 18.8 28.2



#18
trans-1,2-Dichloroethene
Concen: 57.705 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.00 min
Lab File: VV009285.D
Acq: 12 Feb 2019 13:48

Tgt Ion: 96 Resp: 175185
Ion Ratio Lower Upper
96 100
61 153.8 108.4 201.2
98 62.4 45.0 83.6

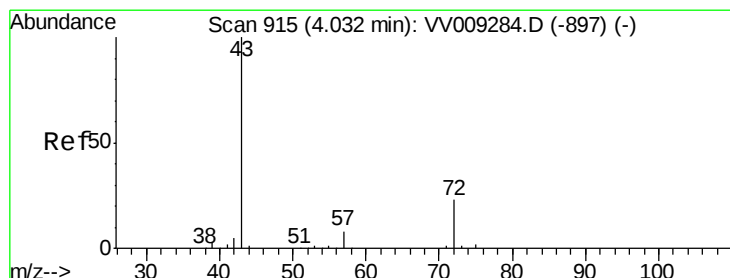
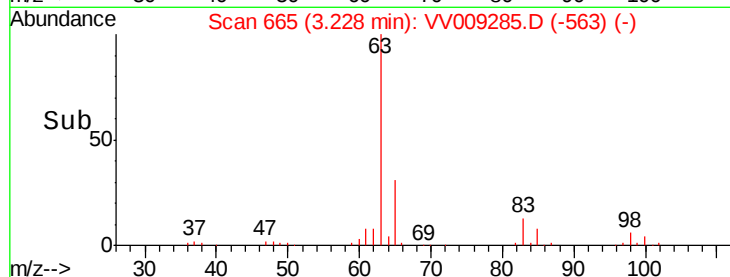
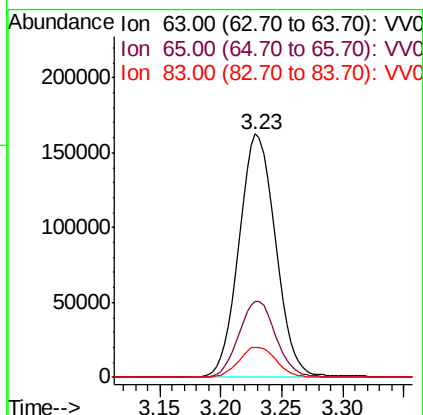
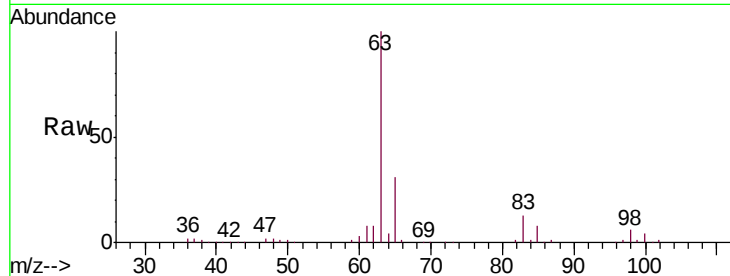




#19
 1,1-Dichloroethane
 Concen: 65.932 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV009285.D
 Acq: 12 Feb 2019 13:48

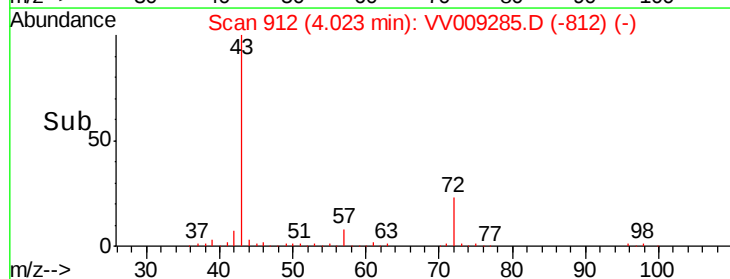
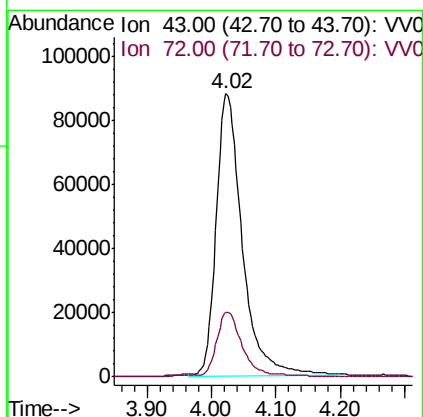
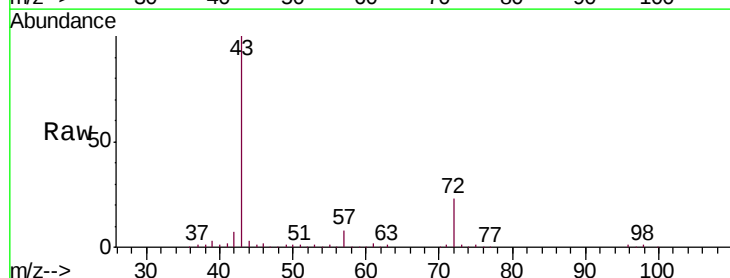
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05064

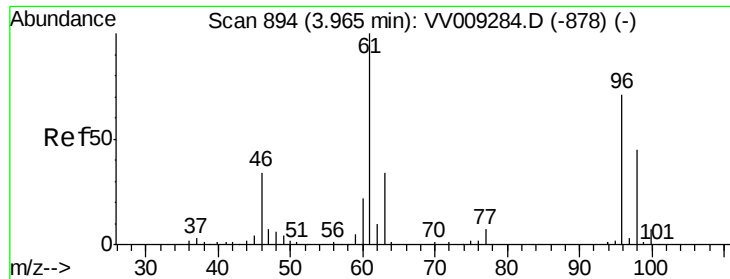
Tgt Ion: 63 Resp: 337014
 Ion Ratio Lower Upper
 63 100
 65 31.0 22.5 41.7
 83 12.5 9.4 17.6



#21
 2-Butanone
 Concen: 160.809 ug/L
 RT: 4.02 min Scan# 912
 Delta R.T. -0.01 min
 Lab File: VV009285.D
 Acq: 12 Feb 2019 13:48

Tgt Ion: 43 Resp: 248759
 Ion Ratio Lower Upper
 43 100
 72 21.9 10.5 31.6



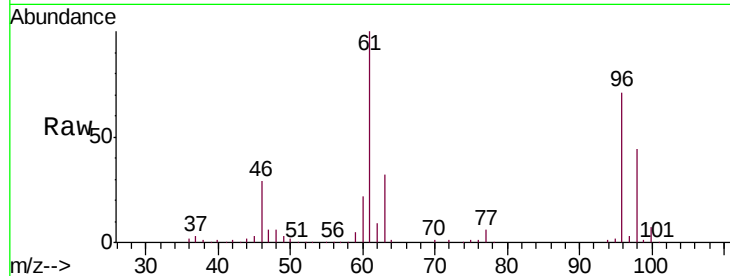


#22

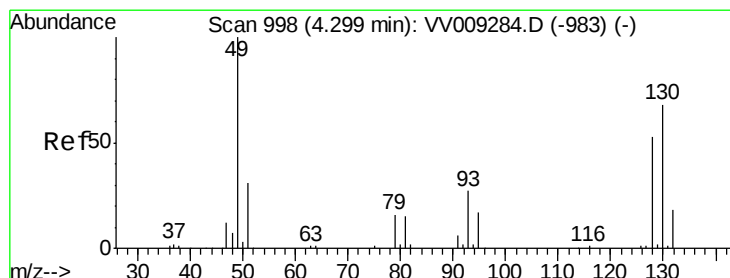
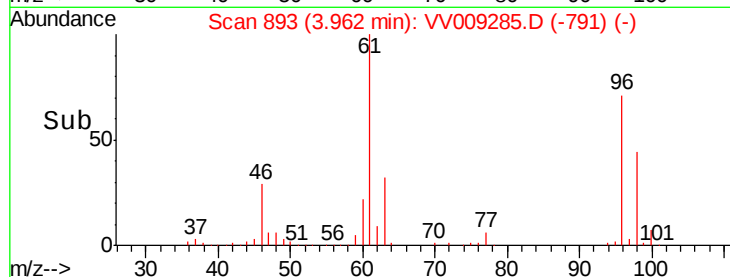
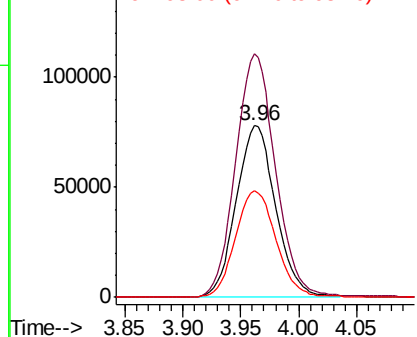
cis-1,2-Dichloroethene
Concen: 58.038 ug/L
RT: 3.96 min Scan# 893
Delta R.T. -0.00 min
Lab File: VV009285.D
Acq: 12 Feb 2019 13:48

Instrument :
MSVOA_V
ClientSampleId :
VSTD05064

Tgt Ion: 96 Resp: 185265
Ion Ratio Lower Upper
96 100
61 141.8 99.3 184.5
98 62.0 44.4 82.4



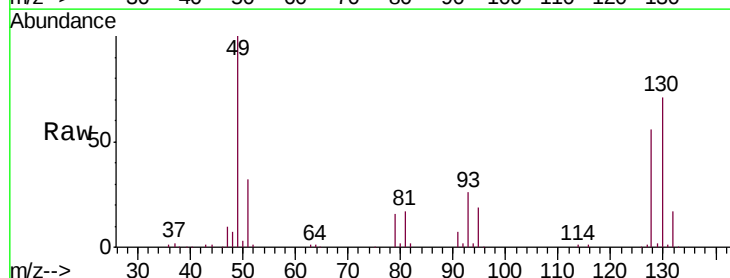
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



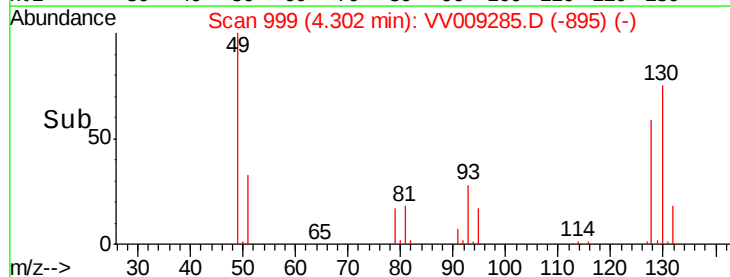
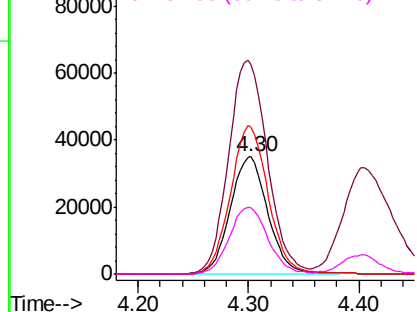
#23

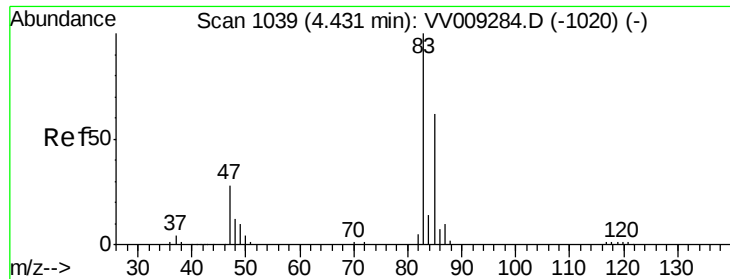
Bromochloromethane
Concen: 55.052 ug/L
RT: 4.30 min Scan# 999
Delta R.T. 0.00 min
Lab File: VV009285.D
Acq: 12 Feb 2019 13:48

Tgt Ion: 128 Resp: 82545
Ion Ratio Lower Upper
128 100
49 178.2 132.6 246.2
130 125.7 89.0 165.2
51 56.9 46.5 69.7



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

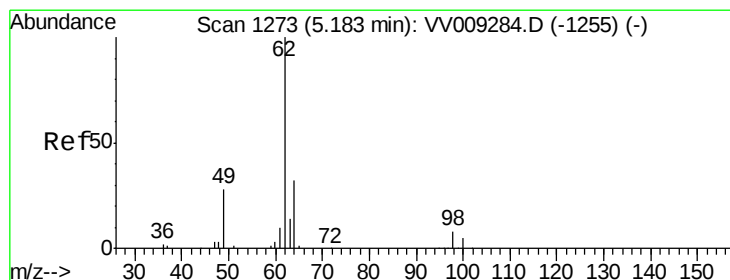
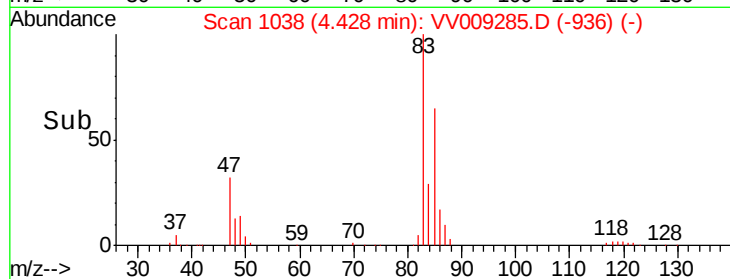
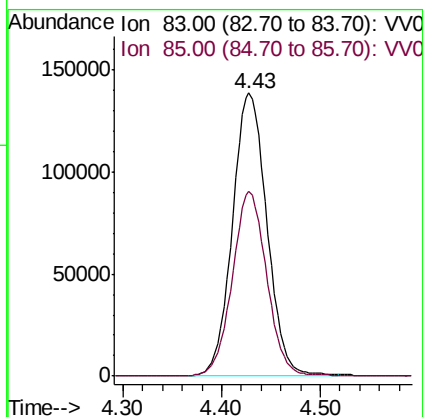
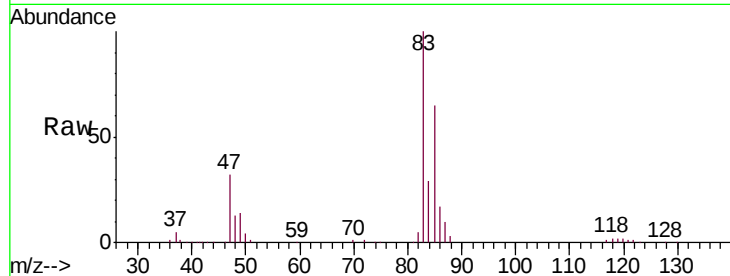




#25
Chloroform
Concen: 62.826 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. -0.00 min
Lab File: VV009285.D
Acq: 12 Feb 2019 13:48

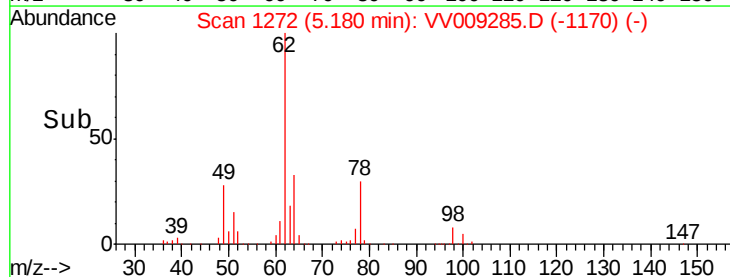
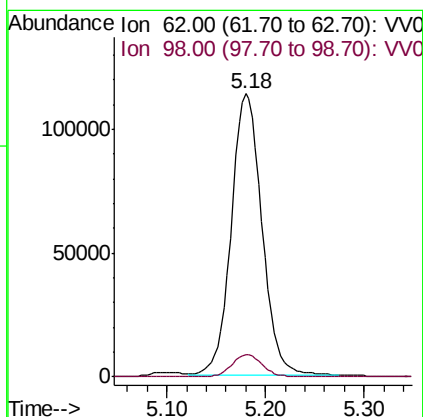
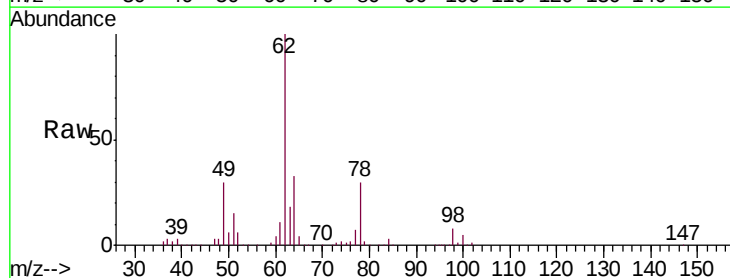
Instrument :
MSVOA_V
ClientSampleId :
VSTD05064

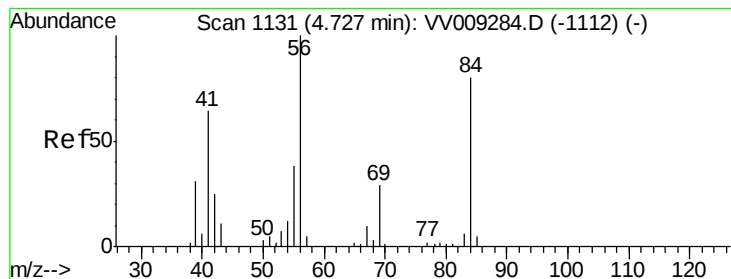
Tgt Ion: 83 Resp: 336133
Ion Ratio Lower Upper
83 100
85 65.0 44.9 83.3



#27
1,2-Dichloroethane
Concen: 65.816 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VV009285.D
Acq: 12 Feb 2019 13:48

Tgt Ion: 62 Resp: 247078
Ion Ratio Lower Upper
62 100
98 7.7 6.2 9.2





#30

Cyclohexane

Concen: 69.973 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV009285.D

Acq: 12 Feb 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

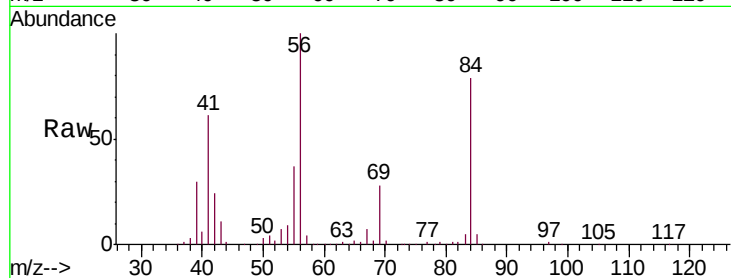
Tgt Ion: 56 Resp: 342325

Ion Ratio Lower Upper

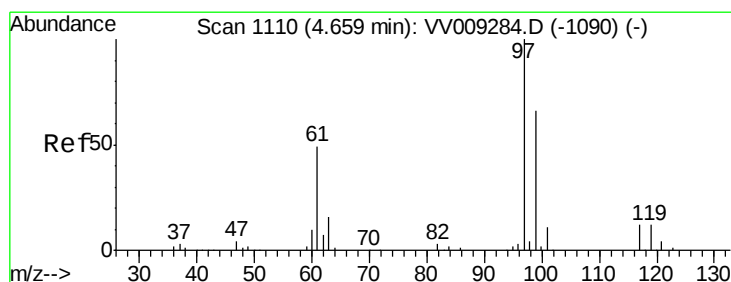
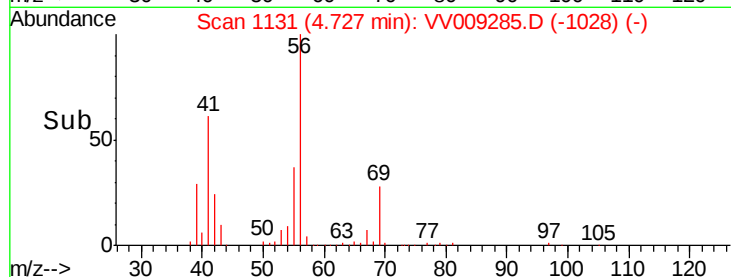
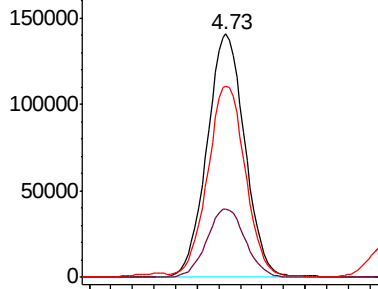
56 100

69 28.7 23.8 35.6

84 79.0 62.4 93.6



Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0



#31

1,1,1-Trichloroethane

Concen: 60.244 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VV009285.D

Acq: 12 Feb 2019 13:48

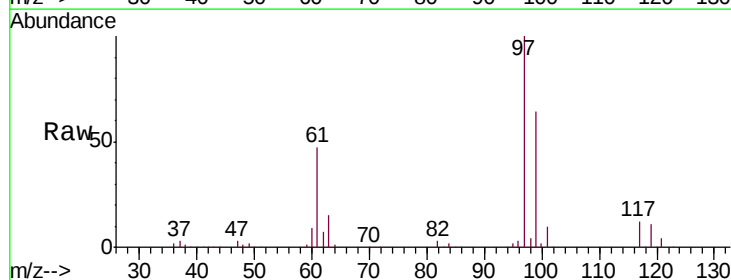
Tgt Ion: 97 Resp: 301988

Ion Ratio Lower Upper

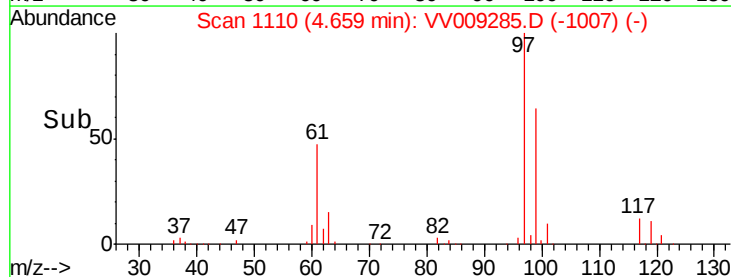
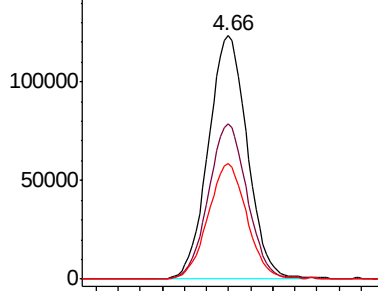
97 100

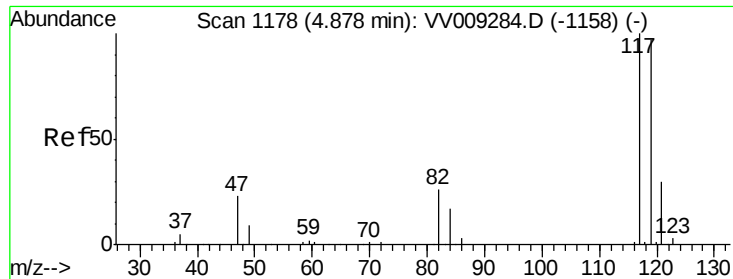
99 63.5 51.5 77.3

61 47.3 39.0 58.4



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.00 (60.70 to 61.70): VV0





#32

Carbon tetrachloride

Concen: 58.520 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV009285.D

Acq: 12 Feb 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

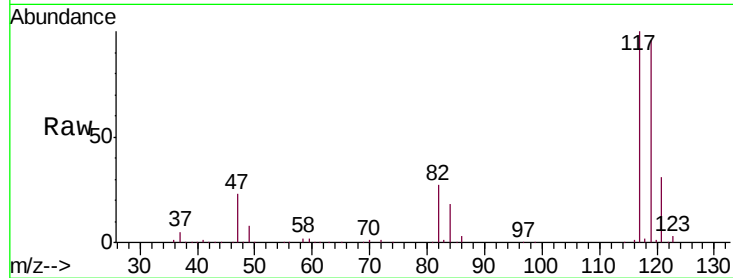
VSTD05064

Tgt Ion:117 Resp: 266419

Ion Ratio Lower Upper

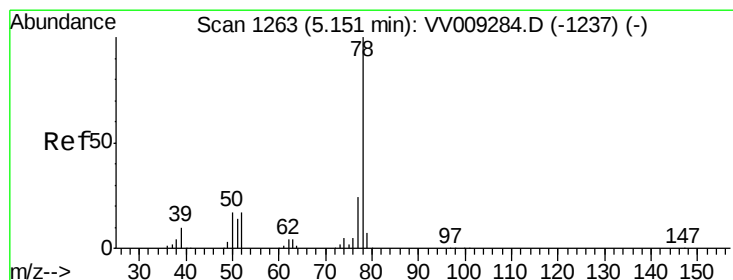
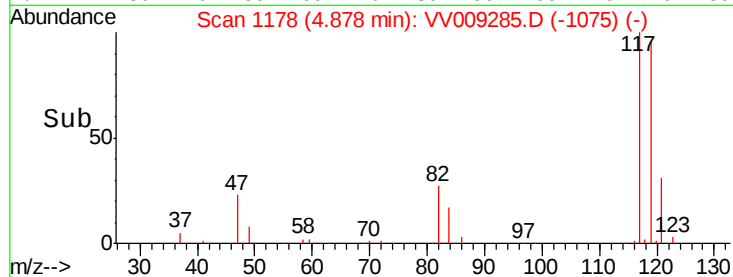
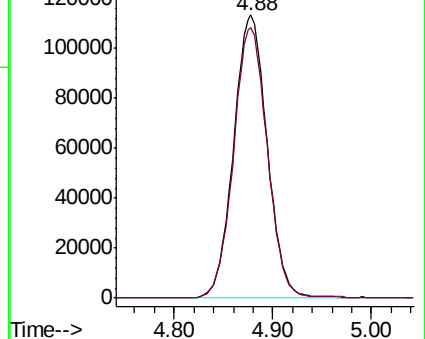
117 100

119 96.5 77.3 115.9



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 61.814 ug/L

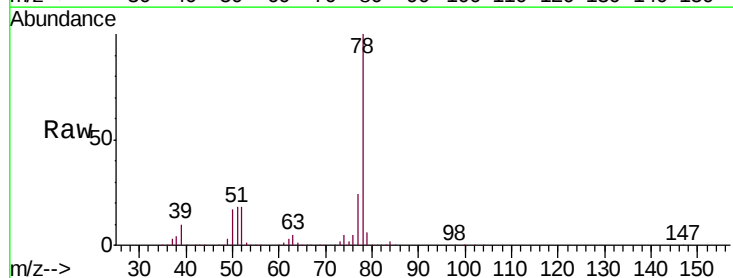
RT: 5.15 min Scan# 1262

Delta R.T. -0.00 min

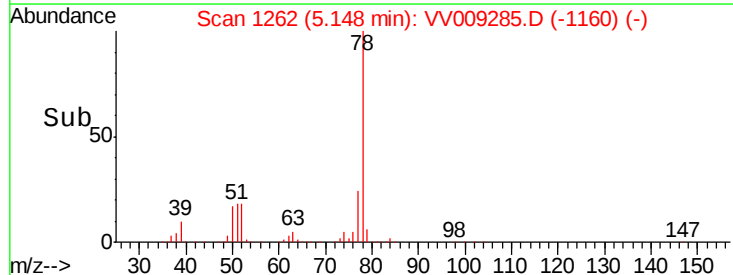
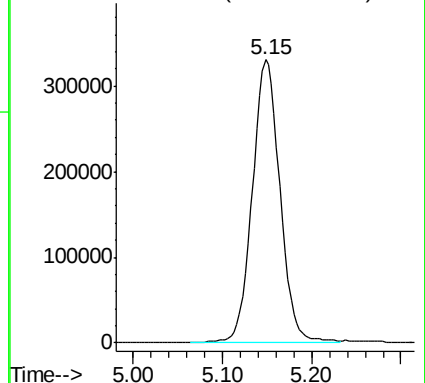
Lab File: VV009285.D

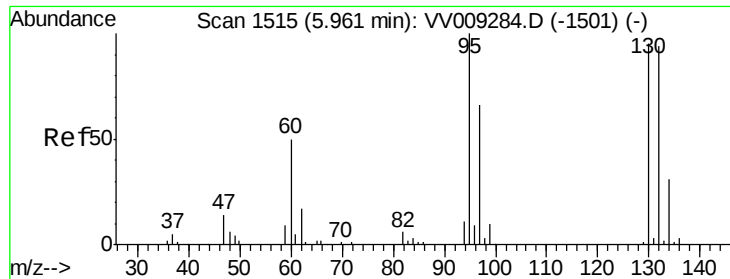
Acq: 12 Feb 2019 13:48

Tgt Ion: 78 Resp: 718132



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 58.546 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV009285.D

Acq: 12 Feb 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

Tgt Ion: 95 Resp: 192230

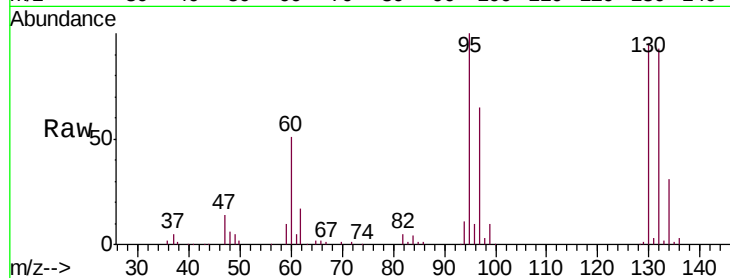
Ion Ratio Lower Upper

95 100

97 65.5 44.4 82.4

132 93.0 64.5 119.9

130 95.1 65.0 120.8

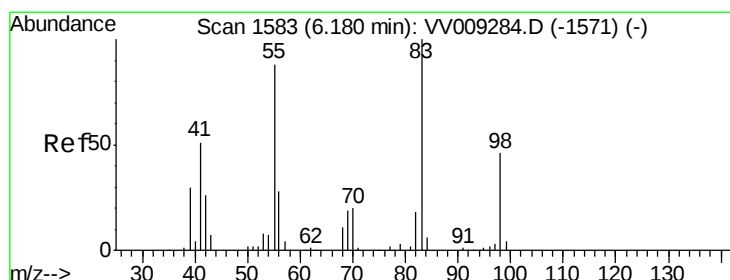
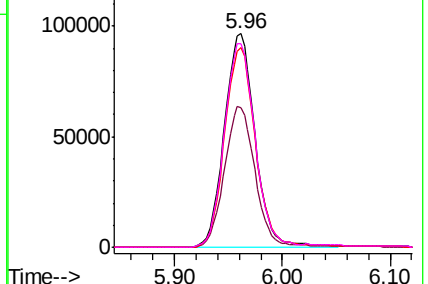
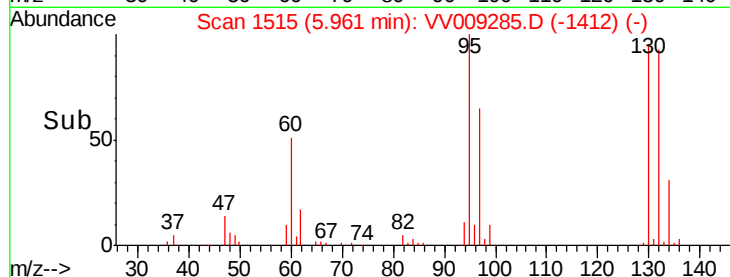


Abundance Ion 95.00 (94.70 to 95.70): VV009285.D (-1412) (-)

Ion 97.00 (96.70 to 97.70): VV009285.D (-1412) (-)

Ion 132.00 (131.70 to 132.70): VV009285.D (-1412) (-)

Ion 130.00 (129.70 to 130.70): VV009285.D (-1412) (-)



#36

Methylcyclohexane

Concen: 60.989 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VV009285.D

Acq: 12 Feb 2019 13:48

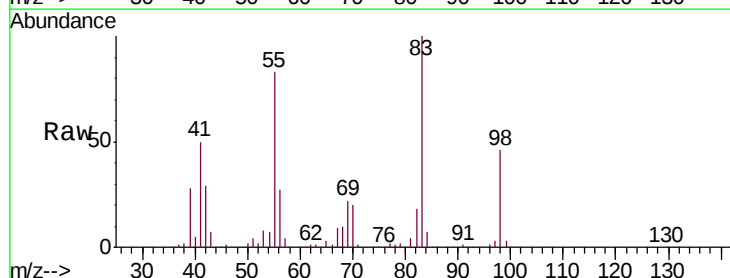
Tgt Ion: 83 Resp: 335031

Ion Ratio Lower Upper

83 100

55 84.3 69.7 104.5

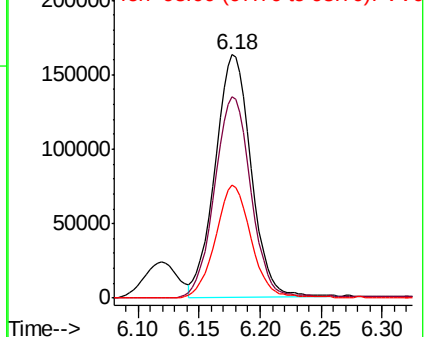
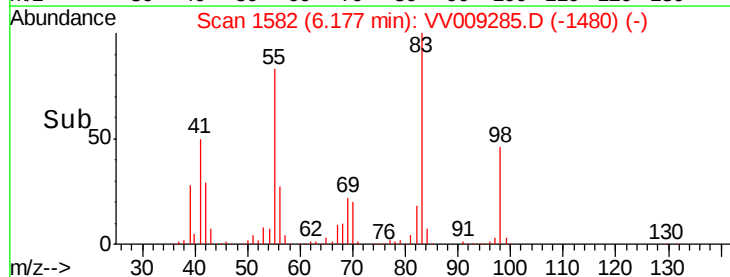
98 45.8 36.6 54.8

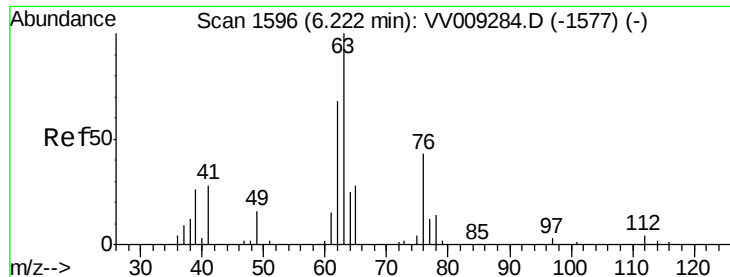


Abundance Ion 83.00 (82.70 to 83.70): VV009285.D (-1480) (-)

Ion 55.00 (54.70 to 55.70): VV009285.D (-1480) (-)

Ion 98.00 (97.70 to 98.70): VV009285.D (-1480) (-)

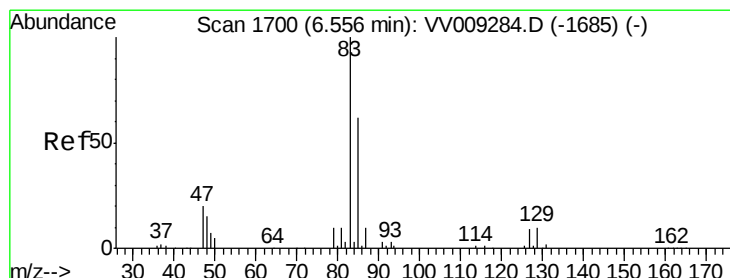
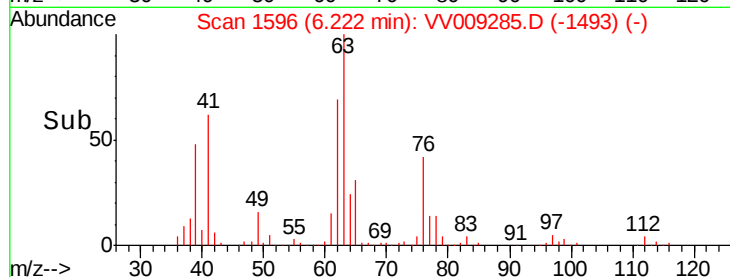
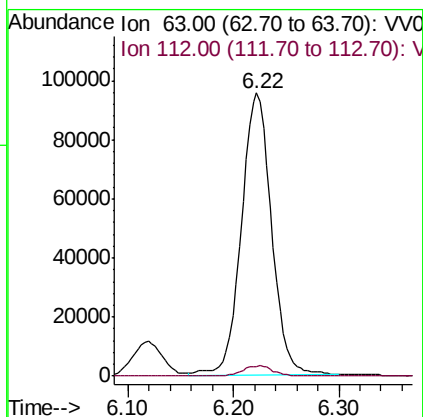
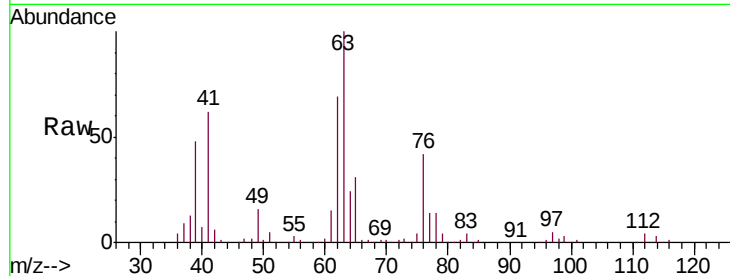




#40
 1,2-Dichloropropane
 Concen: 65.217 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: VV009285.D
 Acq: 12 Feb 2019 13:48

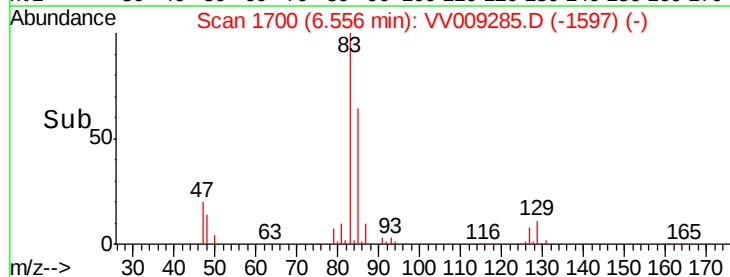
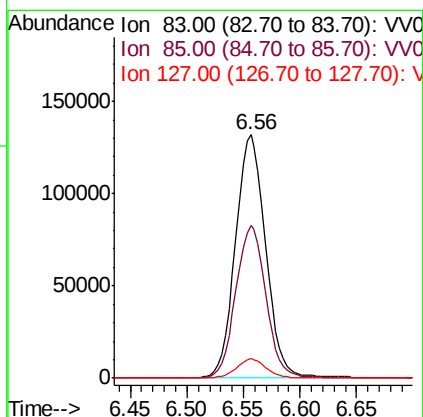
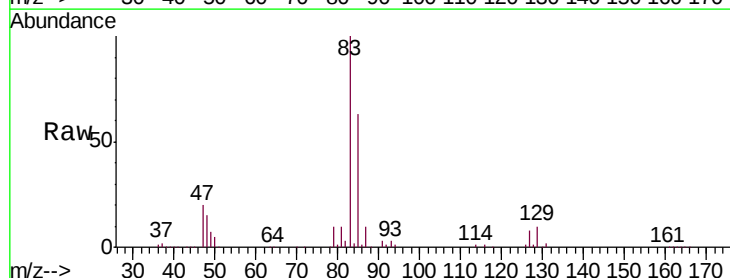
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD05064

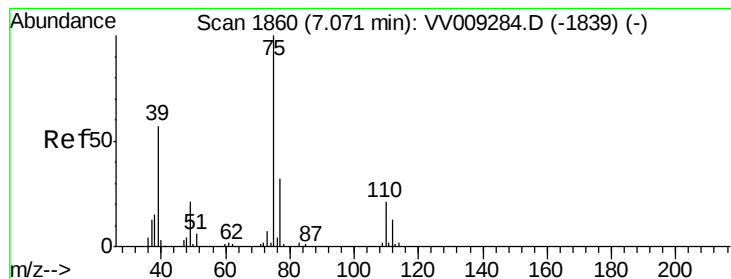
Tgt Ion: 63 Resp: 189867
 Ion Ratio Lower Upper
 63 100
 112 3.7 3.0 4.4



#41
 Bromodichloromethane
 Concen: 62.480 ug/L
 RT: 6.56 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VV009285.D
 Acq: 12 Feb 2019 13:48

Tgt Ion: 83 Resp: 244289
 Ion Ratio Lower Upper
 83 100
 85 62.8 43.5 80.7
 127 8.0 6.9 10.3



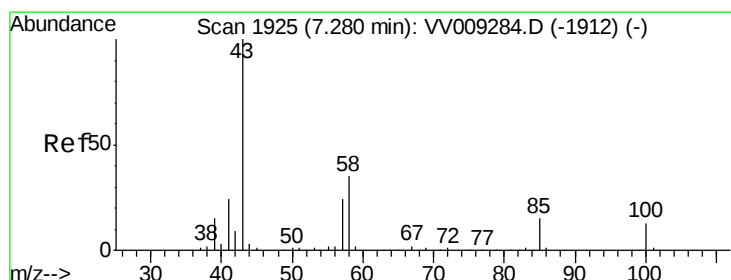
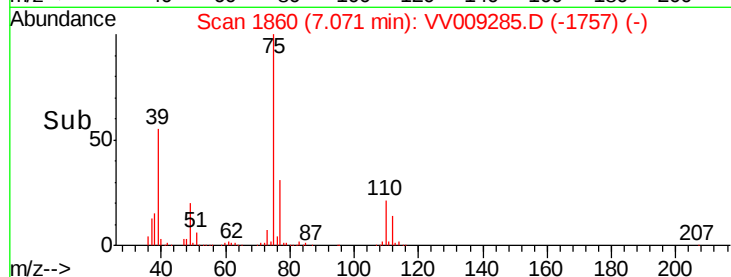
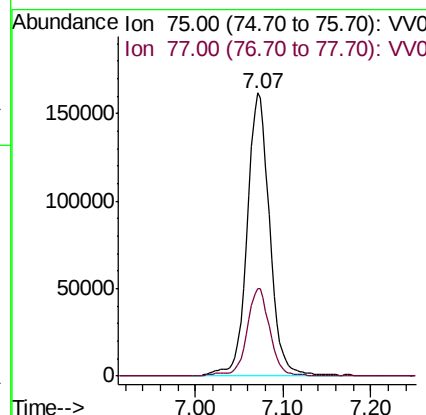
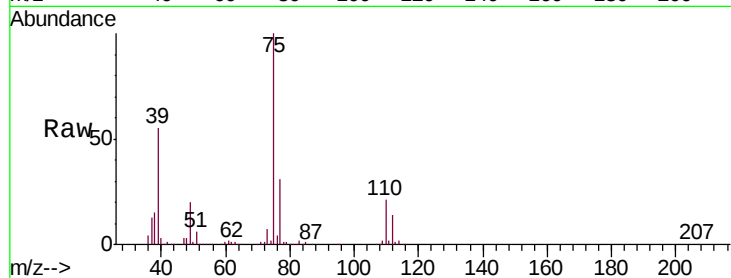


#42

cis-1,3-Dichloropropene
 Concen: 65.736 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV009285.D
 Acq: 12 Feb 2019 13:48

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05064

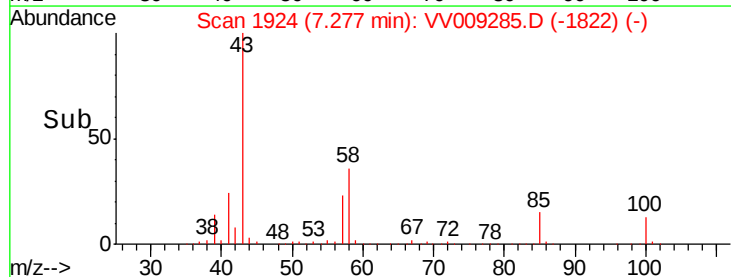
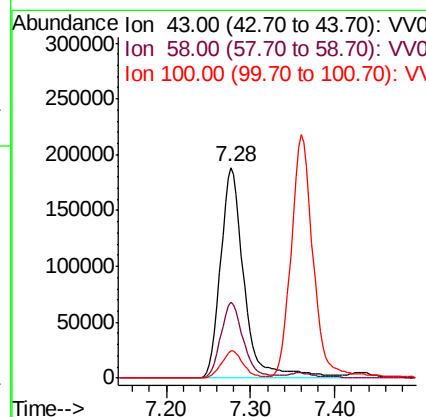
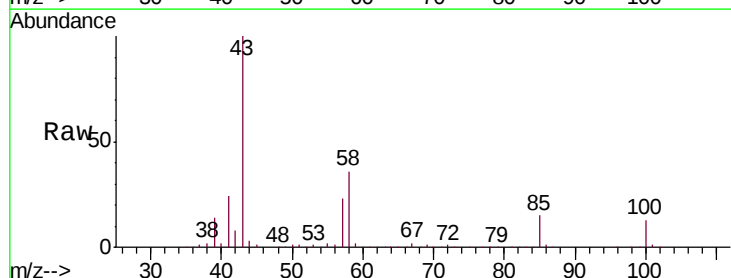
Tgt Ion: 75 Resp: 290507
 Ion Ratio Lower Upper
 75 100
 77 31.1 22.3 41.5

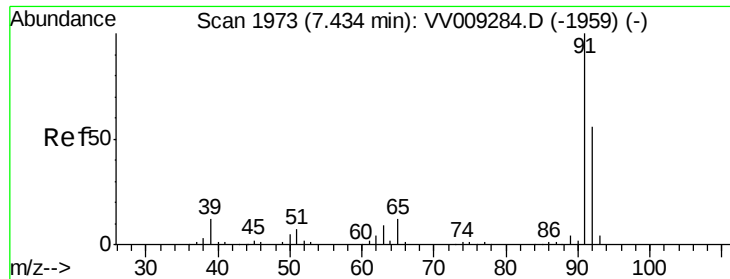


#43

4-Methyl-2-pentanone
 Concen: 149.591 ug/L
 RT: 7.28 min Scan# 1924
 Delta R.T. -0.00 min
 Lab File: VV009285.D
 Acq: 12 Feb 2019 13:48

Tgt Ion: 43 Resp: 368430
 Ion Ratio Lower Upper
 43 100
 58 34.5 28.0 42.0
 100 11.9 9.7 14.5





#44

Toluene

Concen: 61.671 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV009285.D

Acq: 12 Feb 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

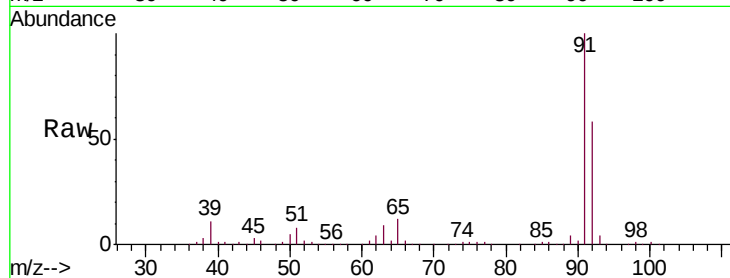
VSTD05064

Tgt Ion: 91 Resp: 769194

Ion Ratio Lower Upper

91 100

92 57.6 39.1 72.5



Abundance Ion 91.00 (90.70 to 91.70): VV009284.D (-1959) (-)

Ion 92.00 (91.70 to 92.70): VV009285.D (-1870) (-)

7.43

400000

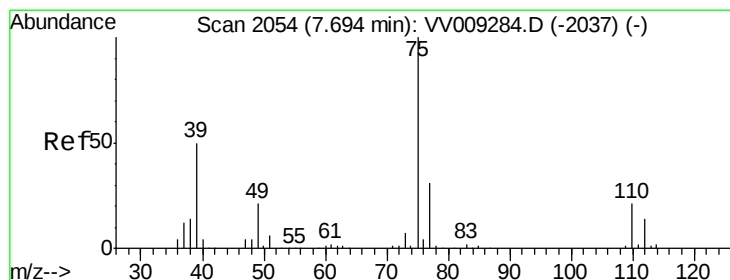
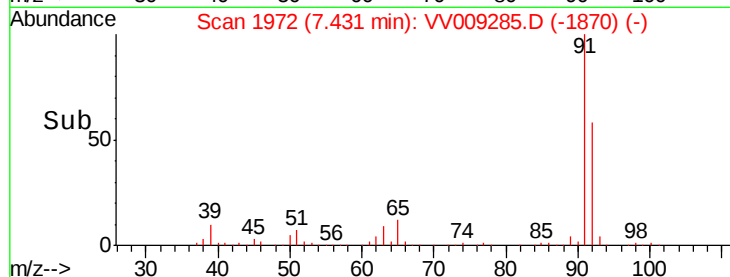
300000

200000

100000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 64.904 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV009285.D

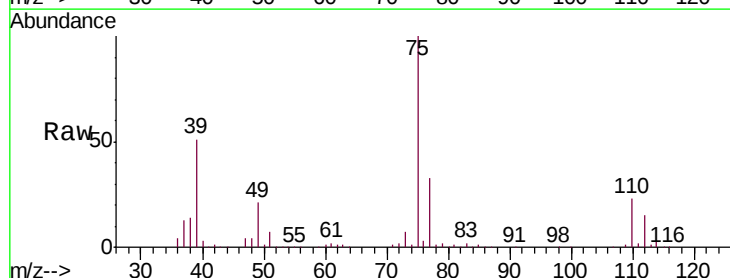
Acq: 12 Feb 2019 13:48

Tgt Ion: 75 Resp: 256360

Ion Ratio Lower Upper

75 100

77 32.5 21.8 40.6



Abundance Ion 75.00 (74.70 to 75.70): VV009284.D (-2037) (-)

Ion 77.00 (76.70 to 77.70): VV009285.D (-1951) (-)

7.69

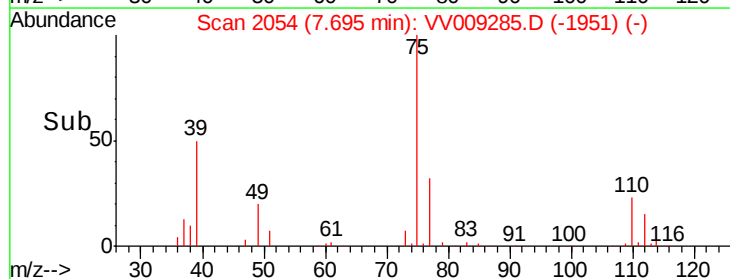
150000

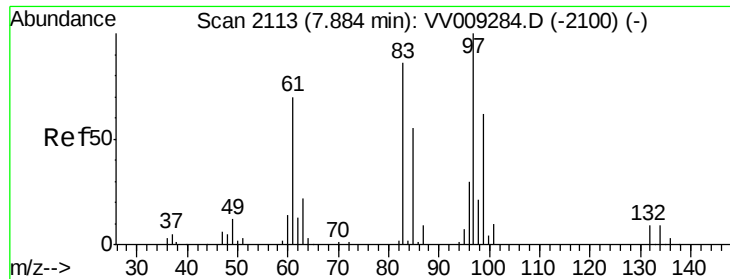
100000

50000

0

Time-->

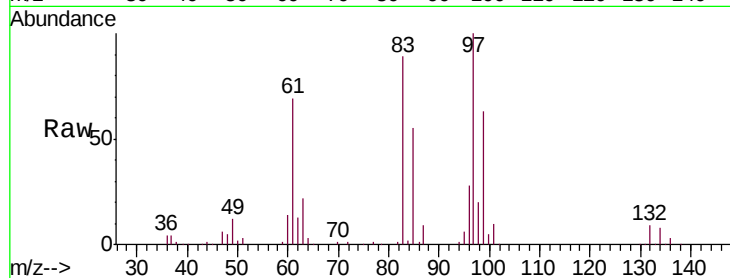




#46
 1,1,2-Trichloroethane
 Concen: 57.619 ug/L
 RT: 7.88 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VV009285.D
 Acq: 12 Feb 2019 13:48

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05064

Tgt Ion:	97	Resp:	141661
Ion	Ratio	Lower	Upper
97	100		
83	89.0	60.0	111.4
85	55.5	38.9	72.3
99	63.3	43.3	80.5



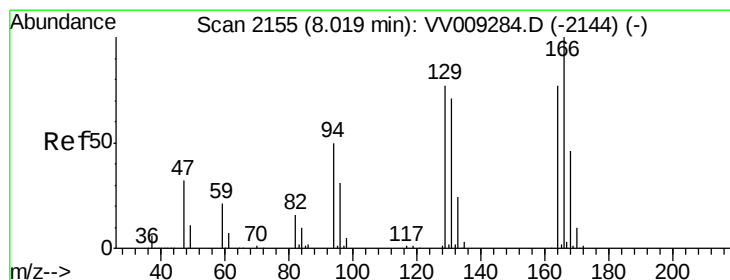
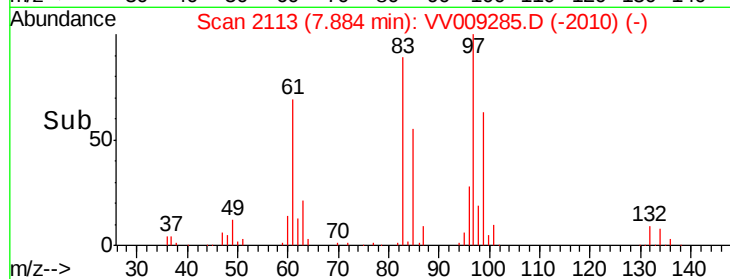
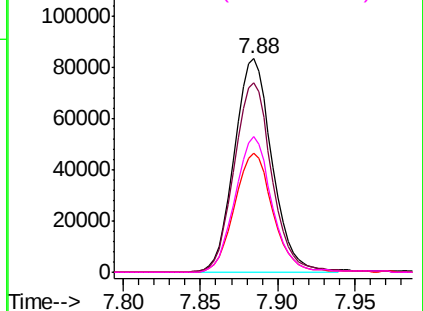
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

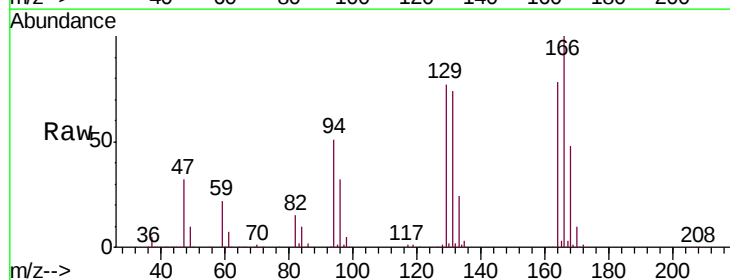
Ion 85.00 (84.70 to 85.70): VV0

Ion 99.00 (98.70 to 99.70): VV0



#47
 Tetrachloroethene
 Concen: 53.034 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VV009285.D
 Acq: 12 Feb 2019 13:48

Tgt Ion:	164	Resp:	145657
Ion	Ratio	Lower	Upper
164	100		
129	99.2	69.9	129.9
131	95.1	65.0	120.8
166	128.6	91.0	169.0



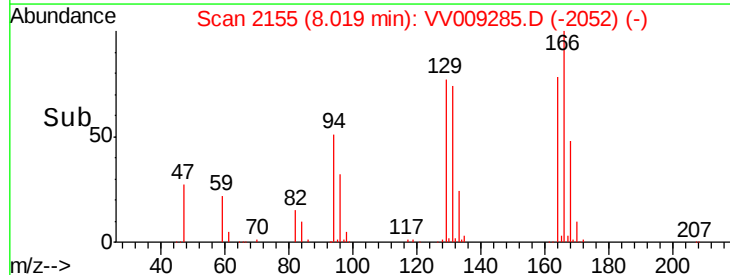
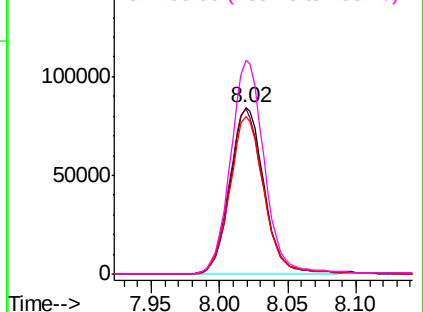
Abundance

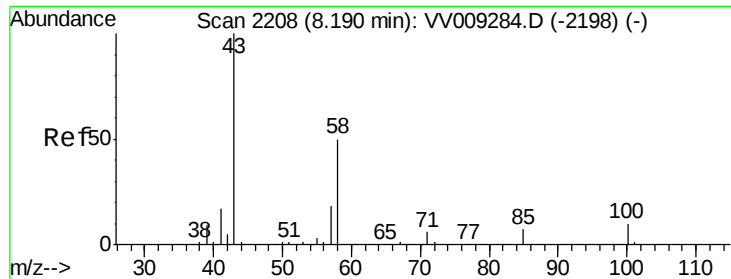
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

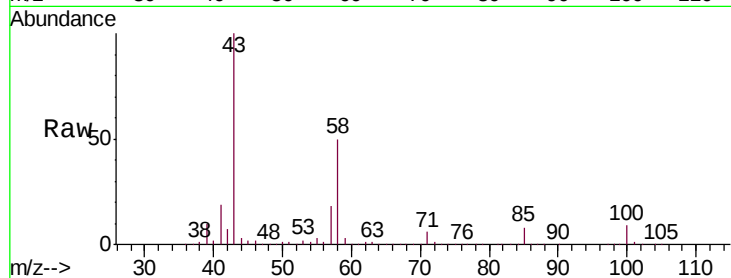




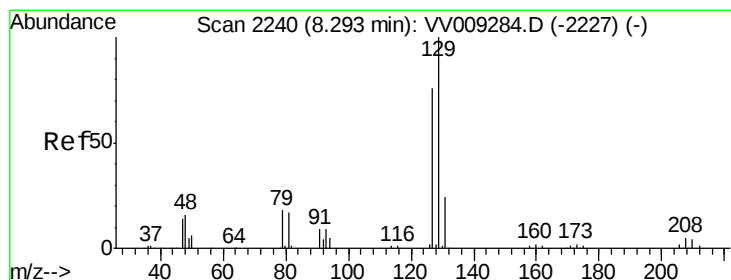
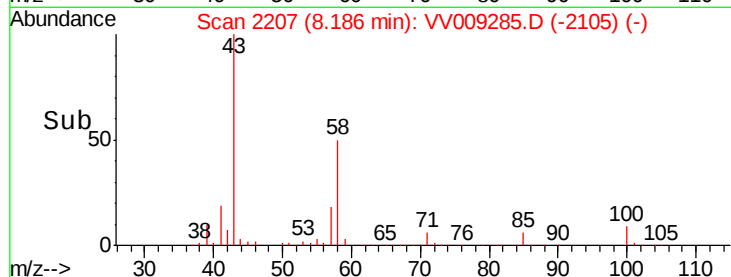
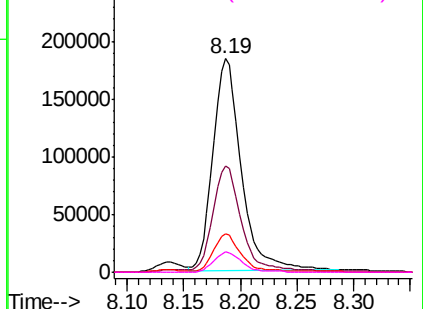
#49
2-Hexanone
Concen: 157.978 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. -0.00 min
Lab File: VV009285.D
Acq: 12 Feb 2019 13:48

Instrument :
MSVOA_V
ClientSampleId :
VSTD05064

Tgt Ion: 43 Resp: 319190
Ion Ratio Lower Upper
43 100
58 50.3 37.4 56.2
57 17.2 13.0 19.6
100 9.7 7.5 11.3

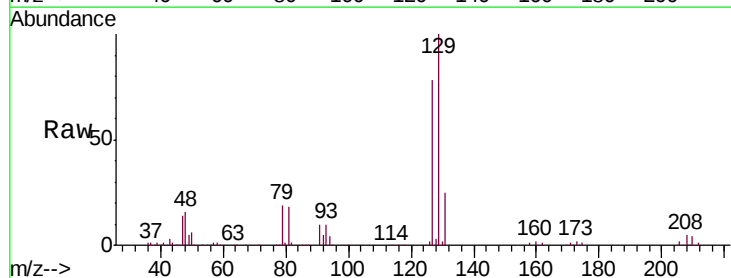


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

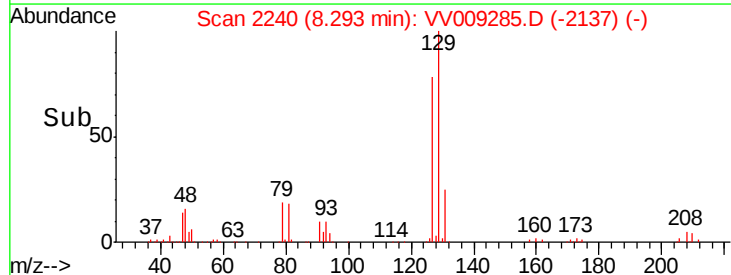
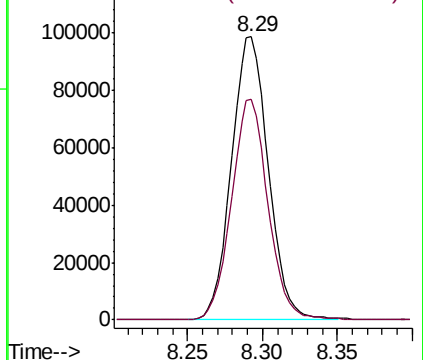


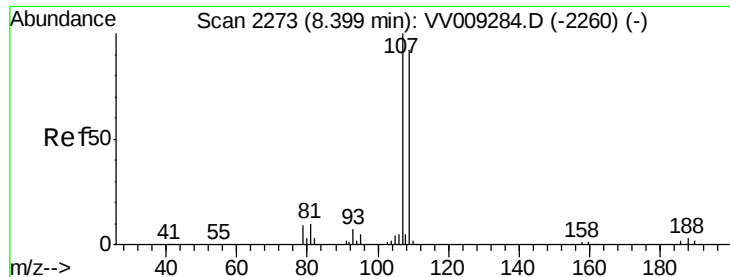
#50
Dibromochloromethane
Concen: 57.472 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VV009285.D
Acq: 12 Feb 2019 13:48

Tgt Ion: 129 Resp: 169638
Ion Ratio Lower Upper
129 100
127 78.0 53.1 98.7



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





#51

1,2-Dibromoethane

Concen: 56.505 ug/L

RT: 8.40 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VV009285.D

Acq: 12 Feb 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

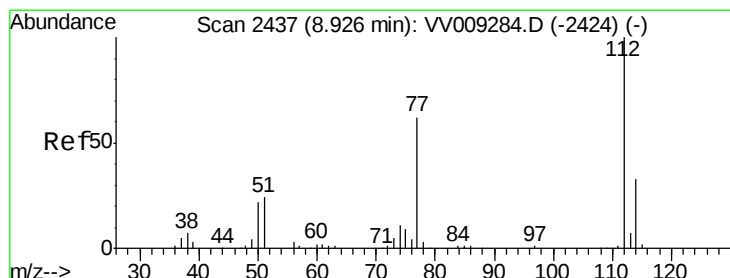
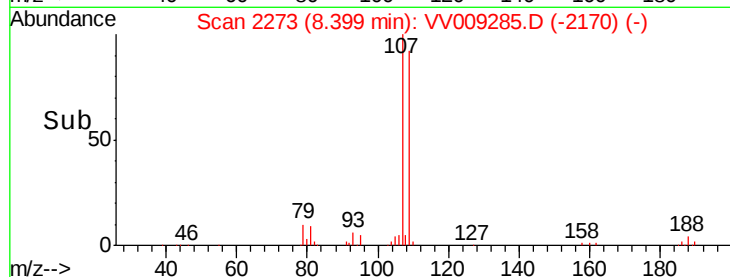
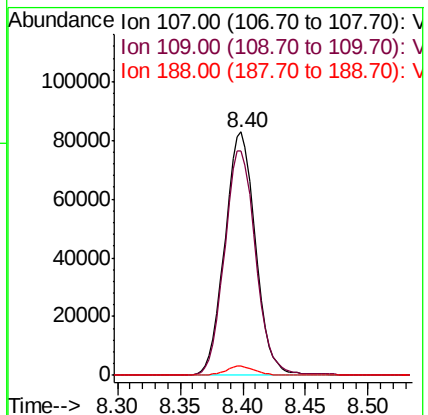
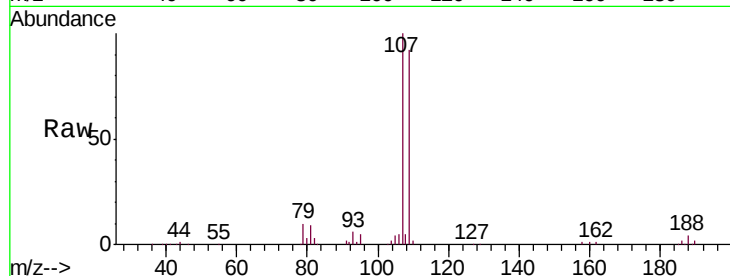
Tgt Ion:107 Resp: 141016

Ion Ratio Lower Upper

107 100

109 92.3 64.2 119.2

188 3.7 2.6 4.0



#52

Chlorobenzene

Concen: 55.865 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VV009285.D

Acq: 12 Feb 2019 13:48

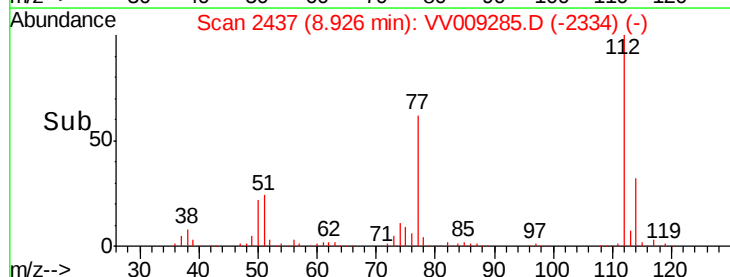
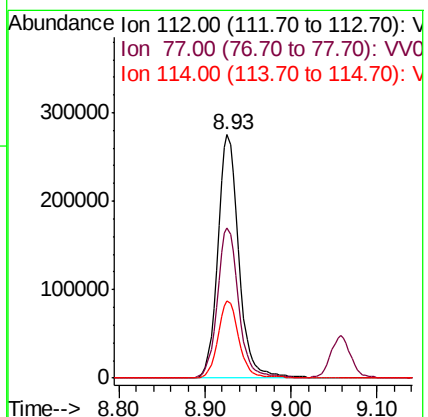
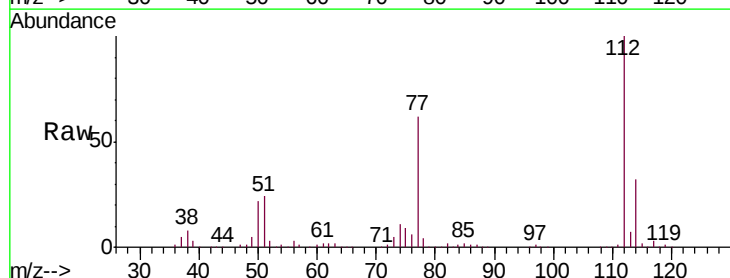
Tgt Ion:112 Resp: 467381

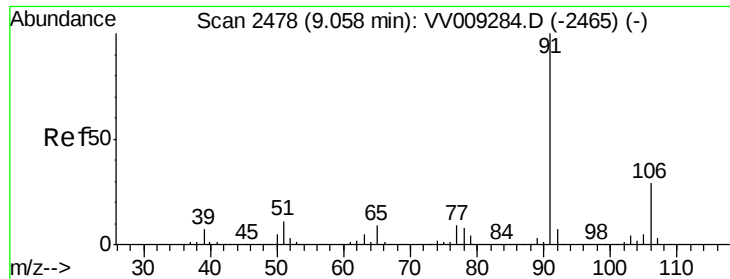
Ion Ratio Lower Upper

112 100

77 61.8 50.2 75.4

114 31.5 22.9 42.5





#53

Ethylbenzene

Concen: 60.724 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV009285.D

Acq: 12 Feb 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

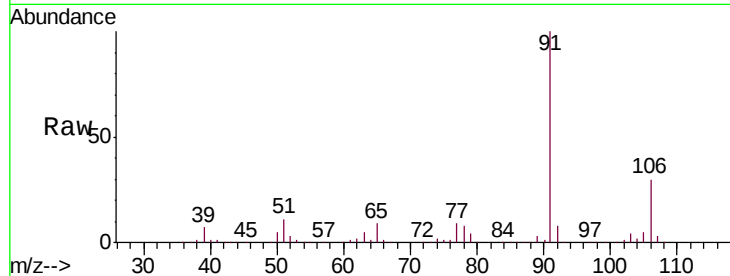
VSTD05064

Tgt Ion: 91 Resp: 850742

Ion Ratio Lower Upper

91 100

106 30.4 20.6 38.2



Abundance Ion 91.00 (90.70 to 91.70): VV009285.D (-2375) (-)

Ion 106.00 (105.70 to 106.70): VV009285.D (-2375) (-)

600000

500000

400000

300000

200000

100000

0

9.06

9.10

9.14

9.18

9.22

9.26

9.30

9.34

9.38

9.42

9.46

9.50

9.54

9.58

9.62

9.66

9.70

9.74

9.78

9.82

9.86

9.90

9.94

9.98

10.02

10.06

10.10

10.14

10.18

10.22

10.26

10.30

10.34

10.38

10.42

10.46

10.50

10.54

10.58

10.62

10.66

10.70

10.74

10.78

10.82

10.86

10.90

10.94

11.00

11.06

11.12

11.18

11.24

11.30

11.36

11.42

11.48

11.54

11.60

11.66

11.72

11.78

11.84

11.90

11.96

12.02

12.08

12.14

12.20

12.26

12.32

12.38

12.44

12.50

12.56

12.62

12.68

12.74

12.80

12.86

12.92

12.98

13.04

13.10

13.16

13.22

13.28

13.34

13.40

13.46

13.52

13.58

13.64

13.70

13.76

13.82

13.88

13.94

14.00

14.06

14.12

14.18

14.24

14.30

14.36

14.42

14.48

14.54

14.60

14.66

14.72

14.78

14.84

14.90

14.96

15.02

15.08

15.14

15.20

15.26

15.32

15.38

15.44

15.50

15.56

15.62

15.68

15.74

15.80

15.86

15.92

15.98

16.04

16.10

16.16

16.22

16.28

16.34

16.40

16.46

16.52

16.58

16.64

16.70

16.76

16.82

16.88

16.94

17.00

17.06

17.12

17.18

17.24

17.30

17.36

17.42

17.48

17.54

17.60

17.66

17.72

17.78

17.84

17.90

17.96

18.02

18.08

18.14

18.20

18.26

18.32

18.38

18.44

18.50

18.56

18.62

18.68

18.74

18.80

18.86

18.92

18.98

19.04

19.10

19.16

19.22

19.28

19.34

19.40

19.46

19.52

19.58

19.64

19.70

19.76

19.82

19.88

19.94

20.00

20.06

20.12

20.18

20.24

20.30

20.36

20.42

20.48

20.54

20.60

20.66

20.72

20.78

20.84

20.90

20.96

21.02

21.08

21.14

21.20

21.26

21.32

21.38

21.44

21.50

21.56

21.62

21.68

21.74

21.80

21.86

21.92

21.98

22.04

22.10

22.16

22.22

22.28

22.34

22.40

22.46

22.52

22.58

22.64

22.70

22.76

22.82

22.88

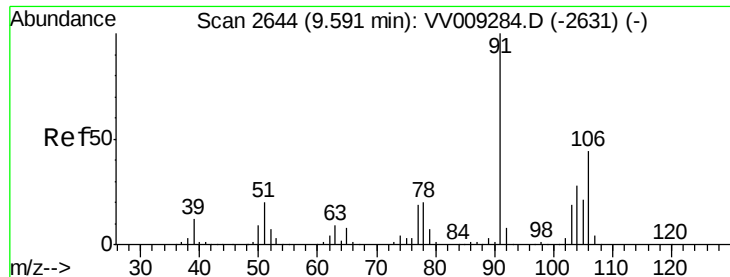
22.94

23.00

23.06

23.12

23.18



#55

o-xylene

Concen: 58.500 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV009285.D

Acq: 12 Feb 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

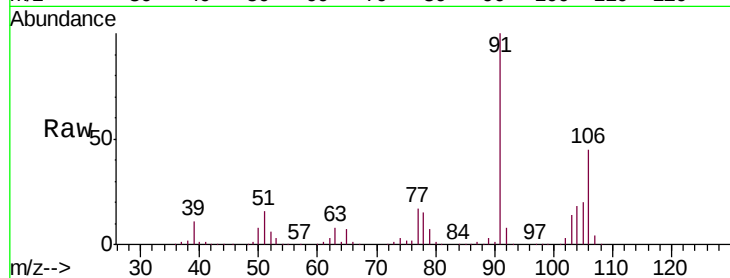
VSTD05064

Tgt Ion:106 Resp: 295808

Ion Ratio Lower Upper

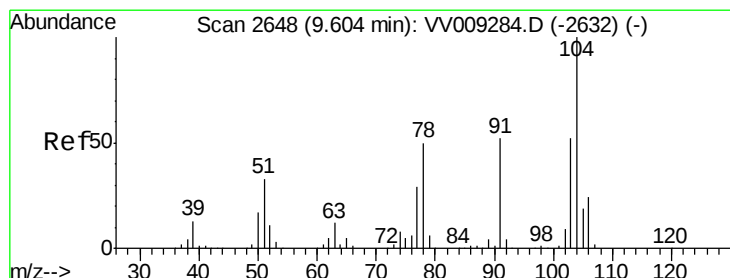
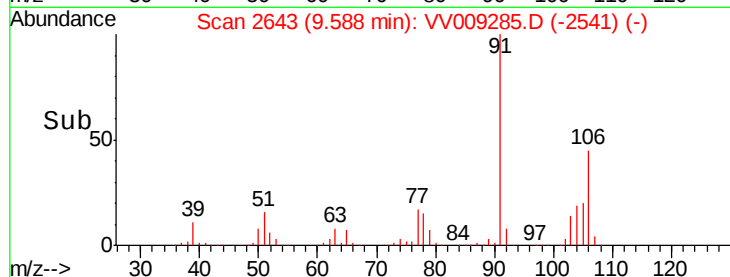
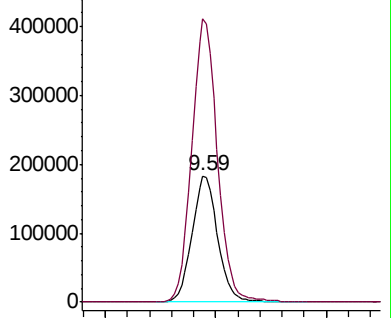
106 100

91 223.7 159.0 295.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 60.854 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV009285.D

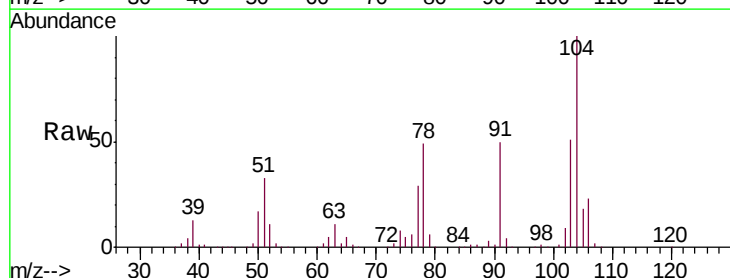
Acq: 12 Feb 2019 13:48

Tgt Ion:104 Resp: 515888

Ion Ratio Lower Upper

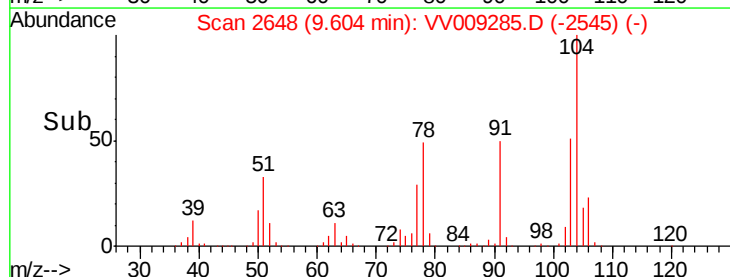
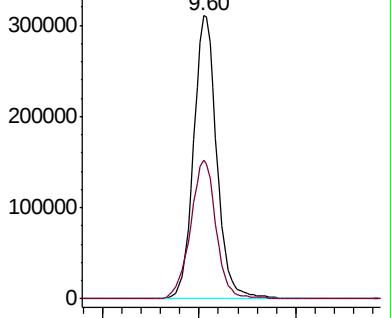
104 100

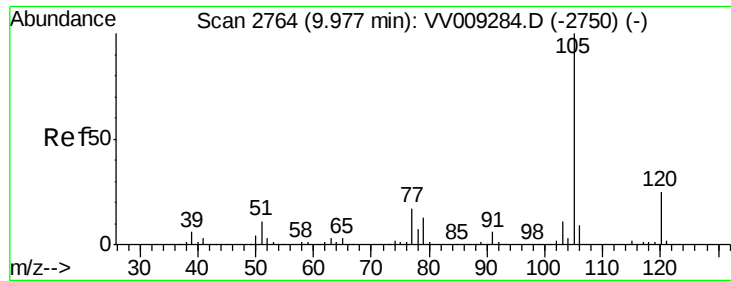
78 49.1 34.8 64.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 59.546 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV009285.D

Acq: 12 Feb 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

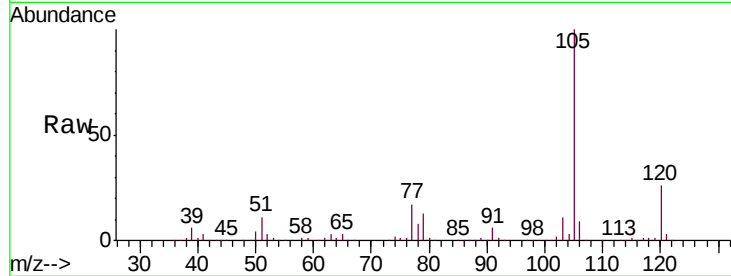
Tgt Ion: 105 Resp: 825216

Ion Ratio Lower Upper

105 100

120 26.1 20.3 30.5

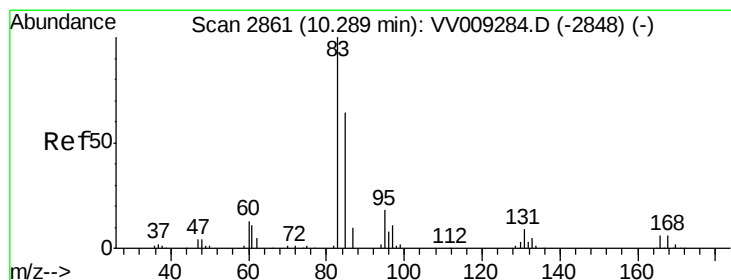
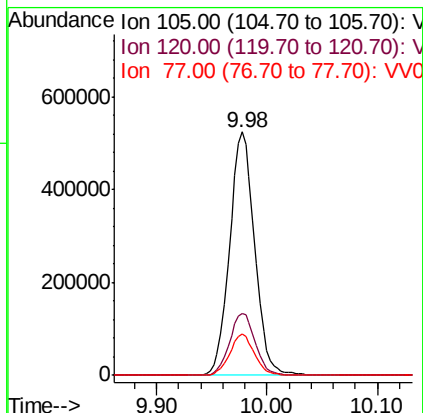
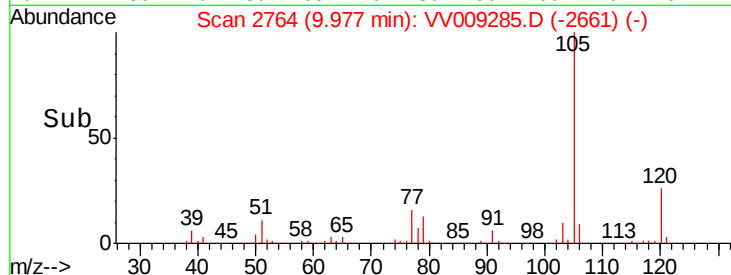
77 16.8 13.4 20.0



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: 63.622 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VV009285.D

Acq: 12 Feb 2019 13:48

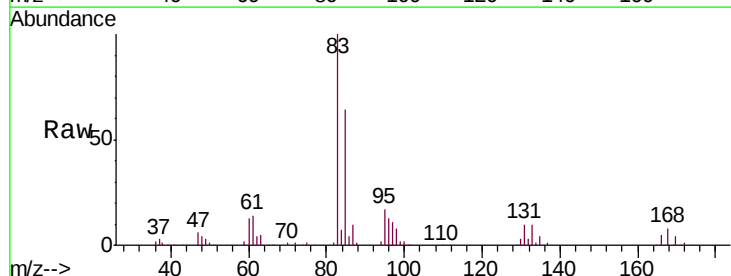
Tgt Ion: 83 Resp: 202802

Ion Ratio Lower Upper

83 100

85 64.3 45.1 83.7

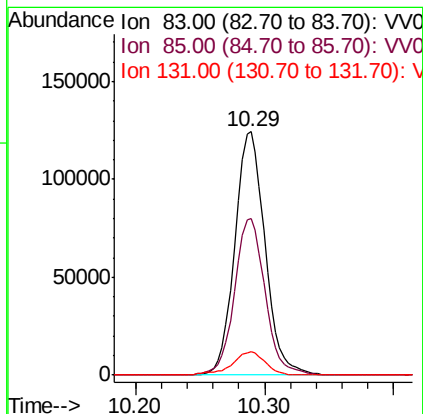
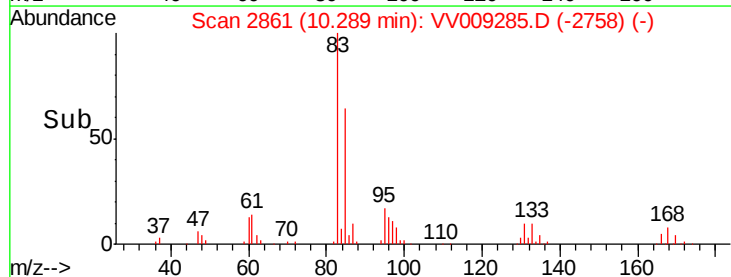
131 9.5 7.9 11.9

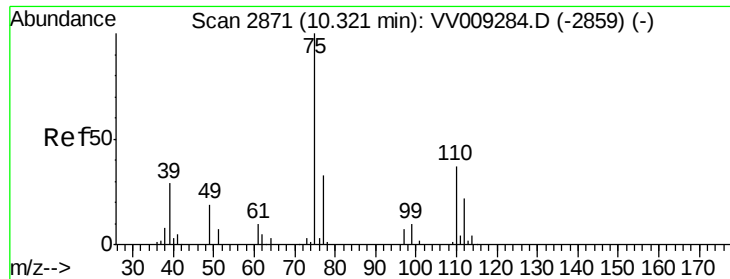


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

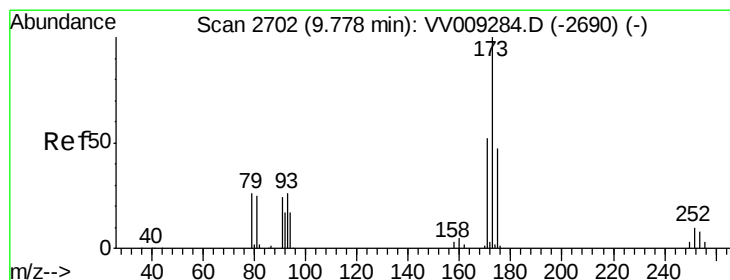
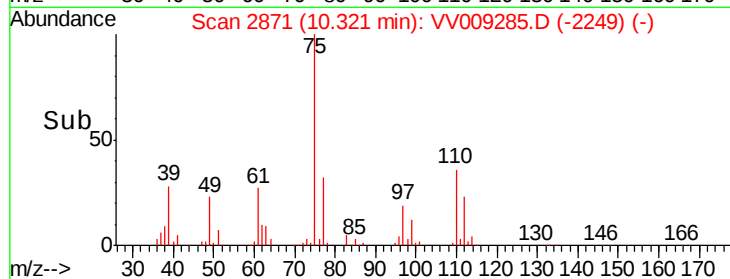
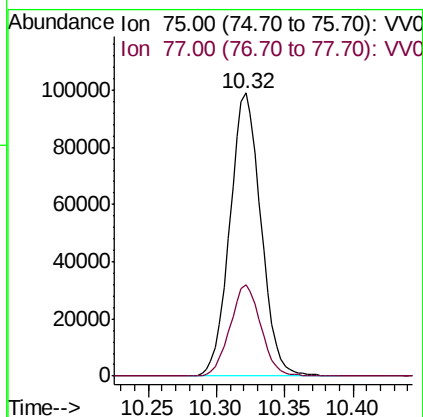
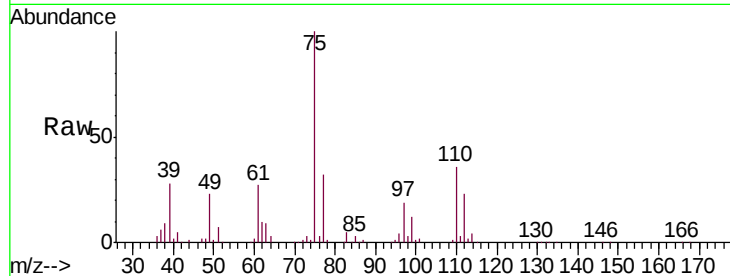




#59
 1,2,3-Trichloropropane
 Concen: 61.832 ug/L
 RT: 10.32 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VV009285.D
 Acq: 12 Feb 2019 13:48

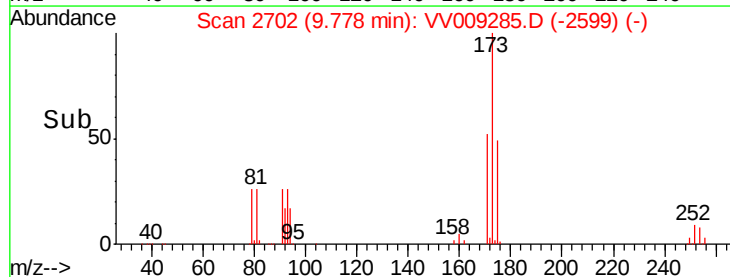
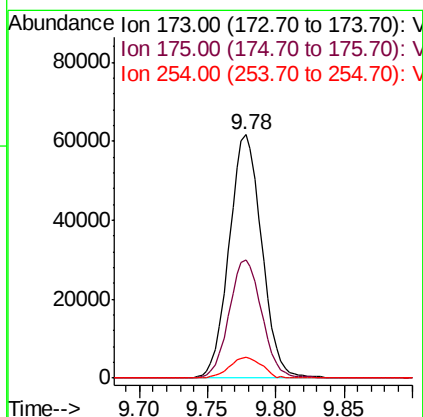
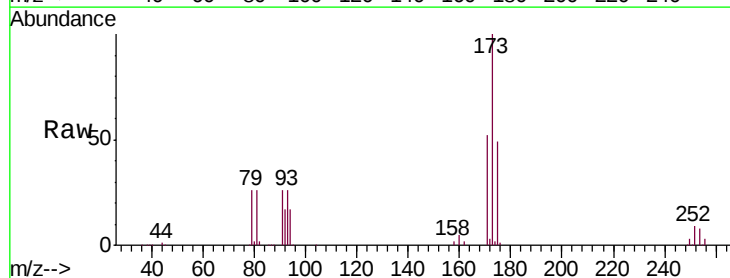
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05064

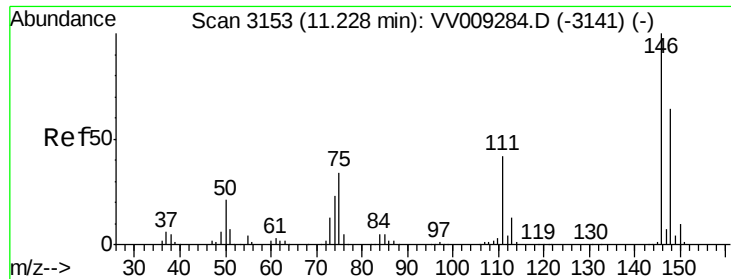
Tgt Ion: 75 Resp: 156788
 Ion Ratio Lower Upper
 75 100
 77 32.4 25.6 38.4



#62
 Bromoform
 Concen: 55.777 ug/L
 RT: 9.78 min Scan# 2702
 Delta R.T. 0.00 min
 Lab File: VV009285.D
 Acq: 12 Feb 2019 13:48

Tgt Ion: 173 Resp: 102237
 Ion Ratio Lower Upper
 173 100
 175 48.5 38.8 58.2
 254 8.3 7.0 10.4

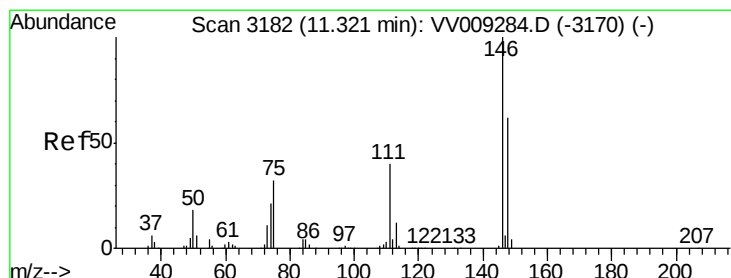
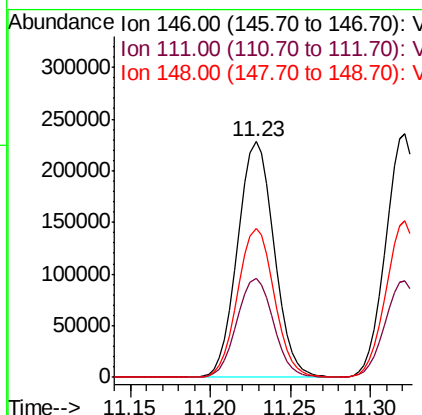
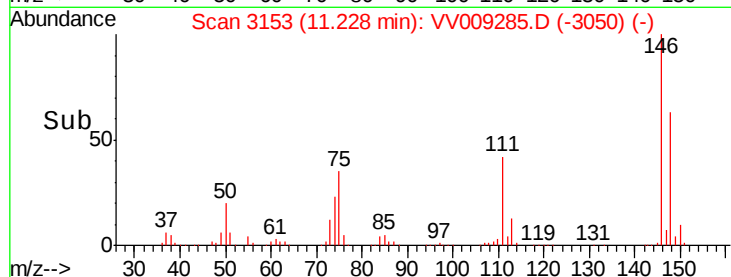
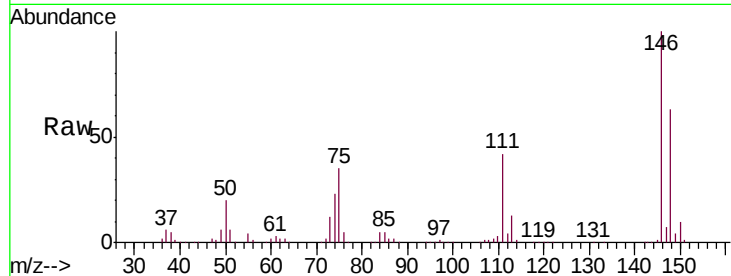




#63
 1,3-Dichlorobenzene
 Concen: 53.289 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV009285.D
 Acq: 12 Feb 2019 13:48

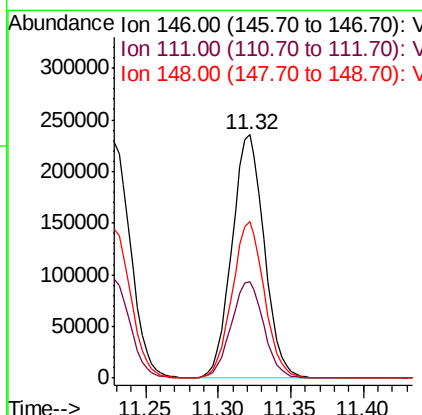
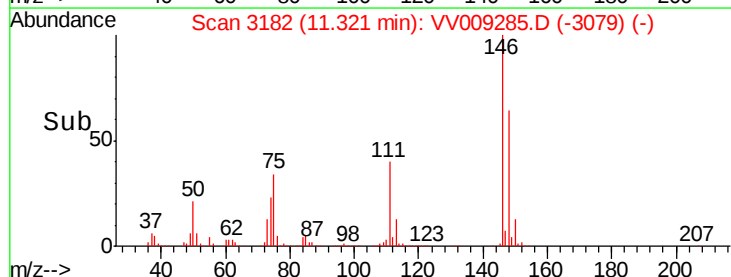
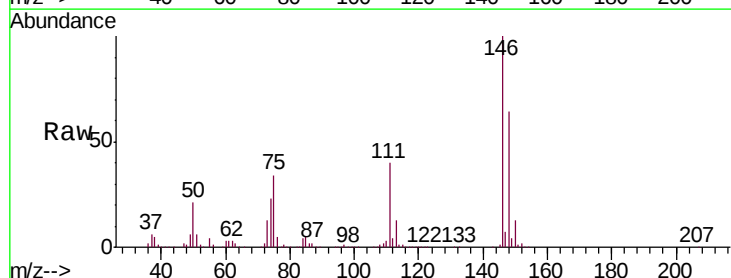
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05064

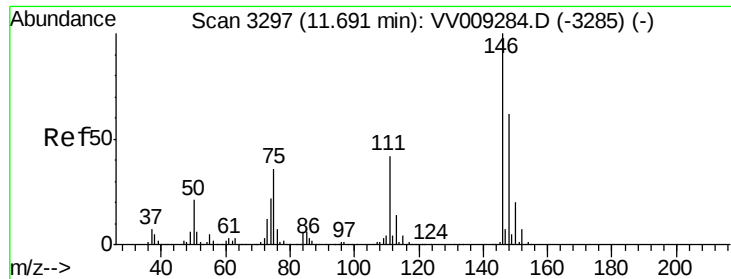
Tgt Ion:146 Resp: 355546
 Ion Ratio Lower Upper
 146 100
 111 42.0 29.3 54.5
 148 63.0 44.9 83.3



#64
 1,4-Dichlorobenzene
 Concen: 53.563 ug/L
 RT: 11.32 min Scan# 3182
 Delta R.T. 0.00 min
 Lab File: VV009285.D
 Acq: 12 Feb 2019 13:48

Tgt Ion:146 Resp: 364777
 Ion Ratio Lower Upper
 146 100
 111 39.8 28.2 52.4
 148 64.1 43.6 81.0





#65

1,2-Dichlorobenzene

Concen: 53.778 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV009285.D

Acq: 12 Feb 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

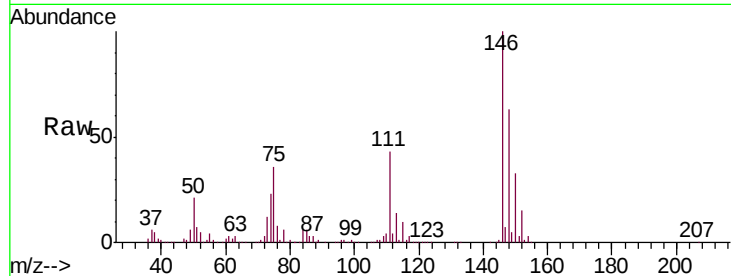
Tgt Ion: 146 Resp: 340354

Ion Ratio Lower Upper

146 100

111 42.9 33.9 50.9

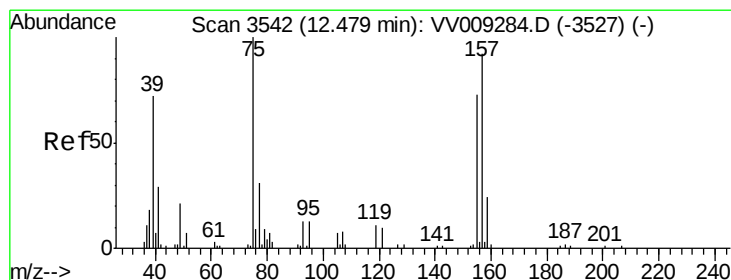
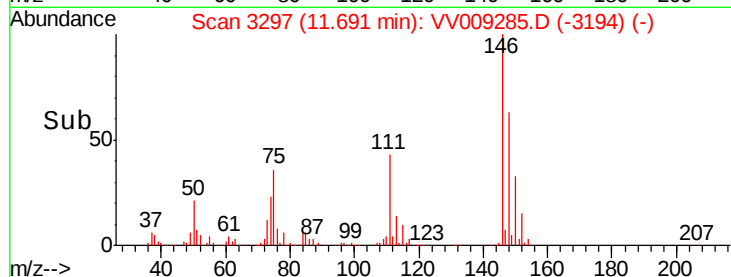
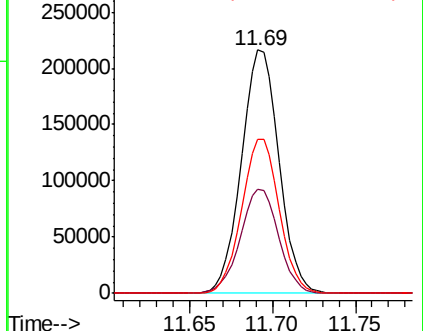
148 63.4 49.9 74.9



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



#66

1,2-Dibromo-3-chloropropane

Concen: 67.283 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. 0.00 min

Lab File: VV009285.D

Acq: 12 Feb 2019 13:48

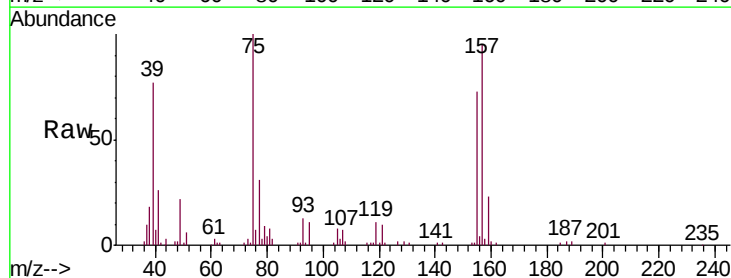
Tgt Ion: 75 Resp: 42394

Ion Ratio Lower Upper

75 100

157 95.4 73.5 110.3

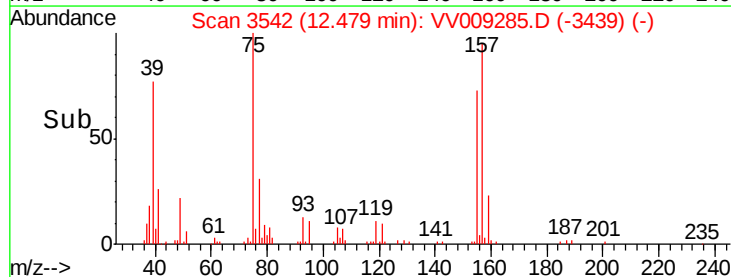
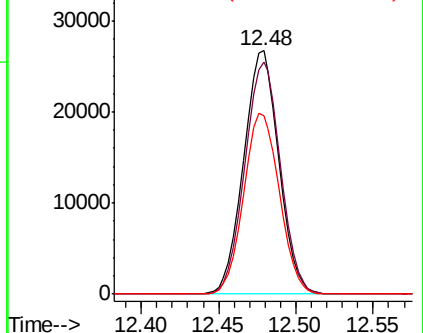
155 73.3 58.2 87.4

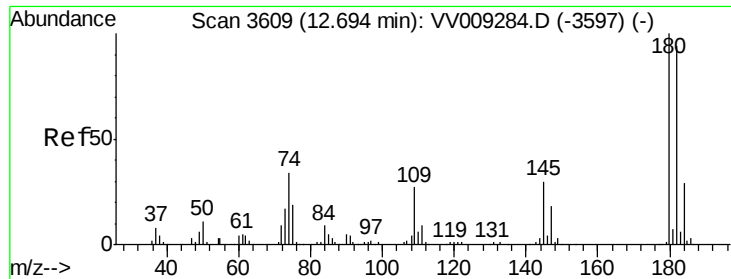


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

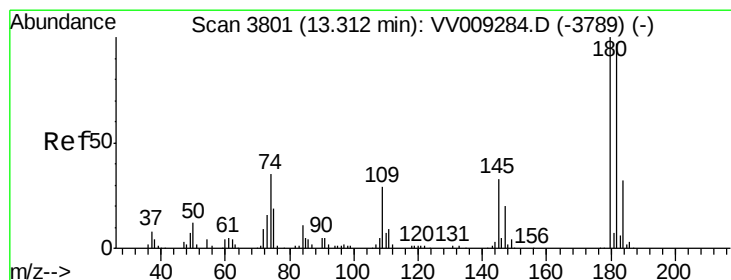
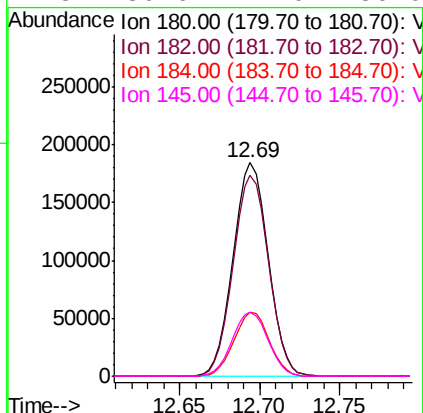
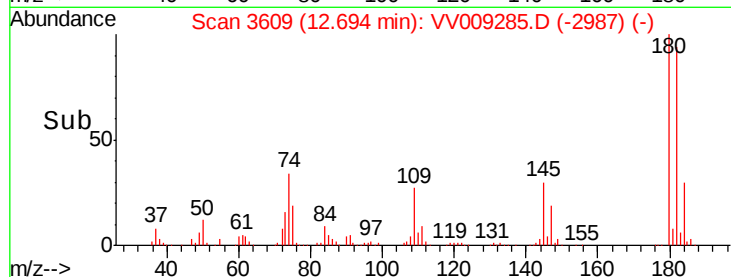
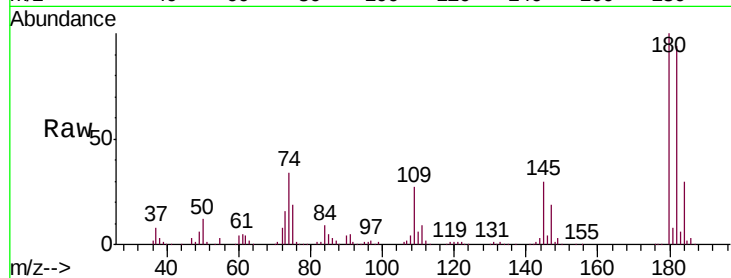




#67
 1,3,5-Trichlorobenzene
 Concen: 52.119 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV009285.D
 Acq: 12 Feb 2019 13:48

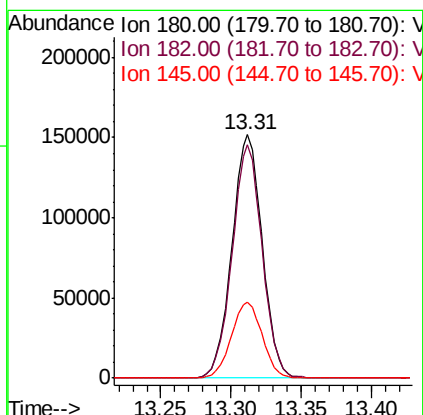
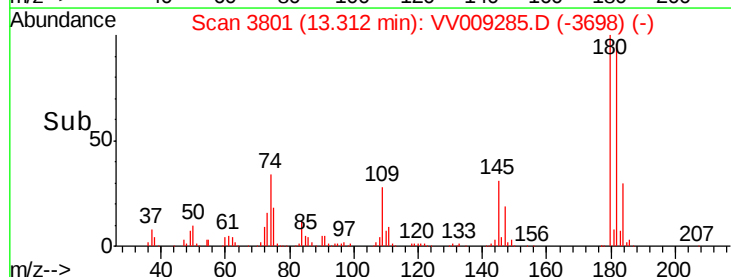
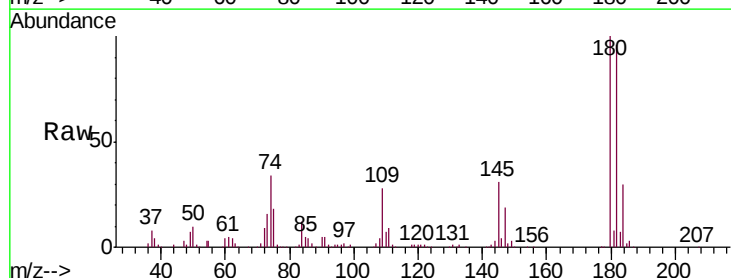
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05064

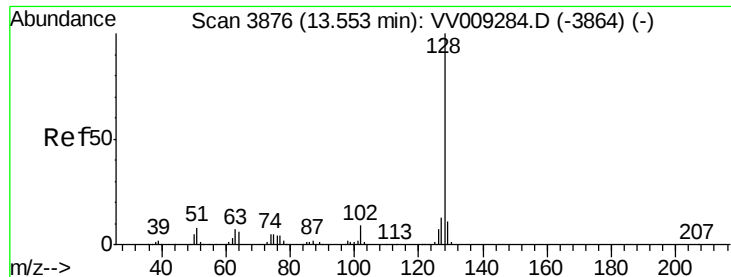
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	75.7	113.5
184	30.0	23.4	35.2
145	30.6	24.0	36.0



#68
 1,2,4-trichlorobenzene
 Concen: 53.925 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009285.D
 Acq: 12 Feb 2019 13:48

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.4	114.6
145	31.6	25.8	38.8





#69

Naphthalene

Concen: 61.677 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV009285.D

Acq: 12 Feb 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

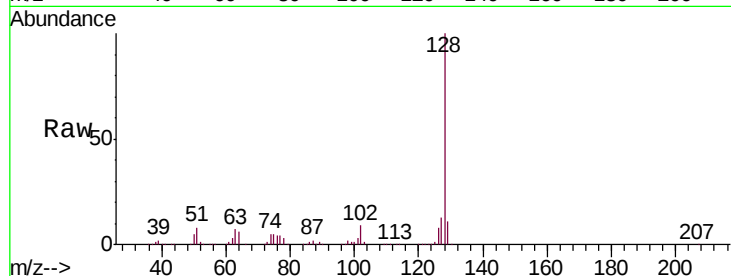
Tgt Ion:128 Resp: 517278

Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

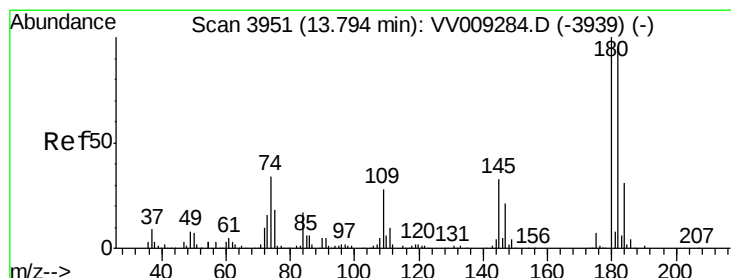
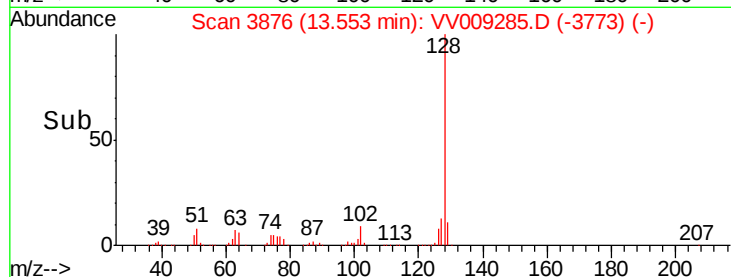
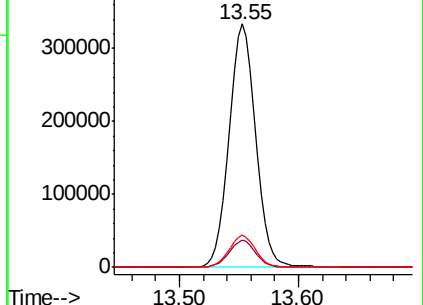
127 13.1 10.6 16.0



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: 55.269 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV009285.D

Acq: 12 Feb 2019 13:48

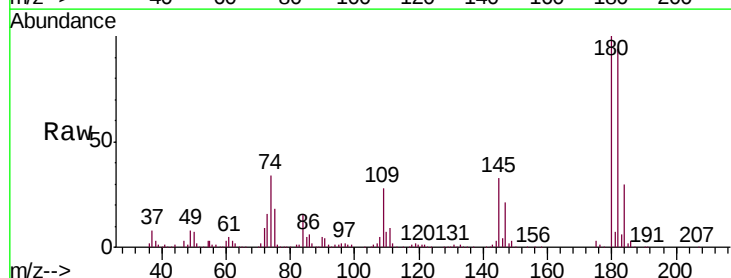
Tgt Ion:180 Resp: 215373

Ion Ratio Lower Upper

180 100

182 94.6 76.3 114.5

145 33.5 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

