

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV062619\
 Data File : VV011753.D
 Acq On : 26 Jun 2019 10:38
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25ML/MSVOA_V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00551

Quant Time: Jun 26 10:59:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR062119WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jun 26 01:40:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	194469	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	180585	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	84947	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	61792	4.79	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.80%
7) Chloroethane-d5	1.58	69	46108	5.08	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	101.60%
11) 1,1-Dichloroethene-d2	2.12	63	125930	4.80	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	96.00%
20) 2-Butanone-d5	3.95	46	163472	48.08	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.16%
24) Chloroform-d	4.40	84	122378	5.20	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.00%
26) 1,2-Dichloroethane-d4	5.08	65	68966	4.87	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.40%
32) Benzene-d6	5.09	84	252776	5.02	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.40%
36) 1,2-Dichloropropane-d6	6.12	67	76003	4.90	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.00%
41) Toluene-d8	7.36	98	232883	5.11	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.20%
43) trans-1,3-Dichloropropene-	7.66	79	27086	5.00	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	100.00%
46) 2-Hexanone-d5	8.13	63	125810	49.45	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.90%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	52493	4.87	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.40%
64) 1,2-Dichlorobenzene-d4	11.67	152	77591	4.84	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.80%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	89212	4.410 ug/L	98
3) Chloromethane	1.25	50	85198	4.642 ug/L	98
5) Vinyl chloride	1.32	62	81959	4.558 ug/L	98
6) Bromomethane	1.53	94	31418	4.008 ug/L	96
8) Chloroethane	1.60	64	43208	4.598 ug/L	93
9) Trichlorofluoromethane	1.76	101	112658	4.842 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	63198	4.793 ug/L	99
12) 1,1-Dichloroethene	2.13	96	56760	4.716 ug/L	97
13) Acetone	2.21	43	109721	44.674 ug/L	100
14) Carbon disulfide	2.31	76	140189	4.328 ug/L	99
15) Methyl Acetate	2.46	43	27759	4.539 ug/L	99
16) Methylene chloride	2.53	84	64332	4.797 ug/L	94
17) Methyl tert-butyl Ether	2.81	73	149631	4.545 ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	66160	4.676 ug/L	97
19) 1,1-Dichloroethane	3.22	63	130926	4.655 ug/L	97
21) 2-Butanone	4.04	43	185186	46.799 ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	71509	4.599 ug/L	97

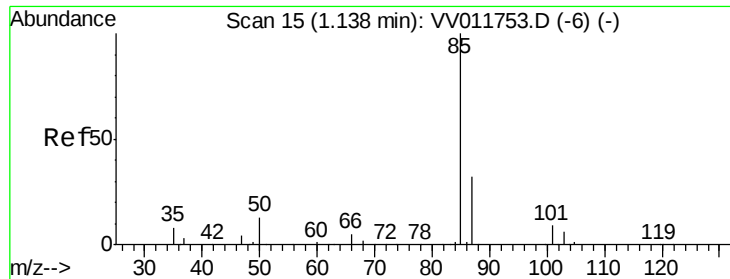
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV062619\
 Data File : VV011753.D
 Acq On : 26 Jun 2019 10:38
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25ML/MSVOA_V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
 VSTD00551

Quant Time: Jun 26 10:59:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR062119WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jun 26 01:40:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	27512	4.696	ug/L	97
25) Chloroform	4.42	83	142723	4.622	ug/L	96
27) 1,2-Dichloroethane	5.18	62	87916	4.698	ug/L	99
29) 1,1,1-Trichloroethane	4.65	97	111322	4.788	ug/L	100
30) Cyclohexane	4.72	56	119114	4.485	ug/L	98
31) Carbon tetrachloride	4.87	117	92942	4.729	ug/L	100
33) Benzene	5.14	78	287108	4.796	ug/L	100
34) Trichloroethene	5.95	95	72536	4.569	ug/L	98
35) Methylcyclohexane	6.17	83	117372	4.579	ug/L	100
37) 1,2-Dichloropropane	6.22	63	71682	4.716	ug/L	99
38) Bromodichloromethane	6.55	83	81808	4.719	ug/L	97
39) cis-1,3-Dichloropropene	7.07	75	97823	4.904	ug/L	100
40) 4-Methyl-2-pentanone	7.28	43	451982	47.404	ug/L	99
42) Toluene	7.43	91	301434	4.819	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	73439	4.971	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	45929	4.760	ug/L	96
47) Tetrachloroethene	8.02	164	56544	4.783	ug/L	97
48) 2-Hexanone	8.19	43	325242	48.514	ug/L	99
49) Dibromochloromethane	8.29	129	47738	4.923	ug/L	100
50) 1,2-Dibromoethane	8.40	107	42401	4.813	ug/L #	96
51) Chlorobenzene	8.92	112	182787	4.712	ug/L	99
52) Ethylbenzene	9.05	91	329755	4.776	ug/L	98
53) m,p-xylene	9.18	106	127049	5.010	ug/L	100
54) o-xylene	9.59	106	120588	4.864	ug/L	99
55) Styrene	9.60	104	200290	5.070	ug/L	97
56) Isopropylbenzene	9.97	105	316900	4.771	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	55065	4.800	ug/L	100
59) 1,2,3-Trichloropropane	10.32	75	39172	4.435	ug/L	96
61) Bromoform	9.77	173	22600	4.737	ug/L	99
62) 1,3-Dichlorobenzene	11.22	146	134018	4.677	ug/L	97
63) 1,4-Dichlorobenzene	11.32	146	134391	4.540	ug/L	100
65) 1,2-Dichlorobenzene	11.69	146	128914	4.724	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	7980	5.105	ug/L	99
67) 1,3,5-Trichlorobenzene	12.69	180	102560	4.814	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	80598	4.881	ug/L	99
69) Naphthalene	13.55	128	133769	4.955	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	75600	4.925	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 4.410 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV011753.D

Acq: 26 Jun 2019 10:38

Instrument :

MSVOA_V

ClientSampleId :

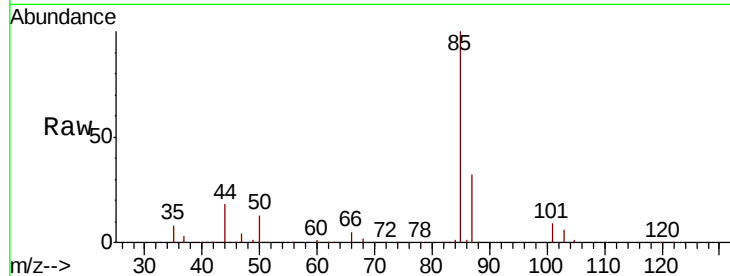
VSTD00551

Tgt Ion: 85 Resp: 89212

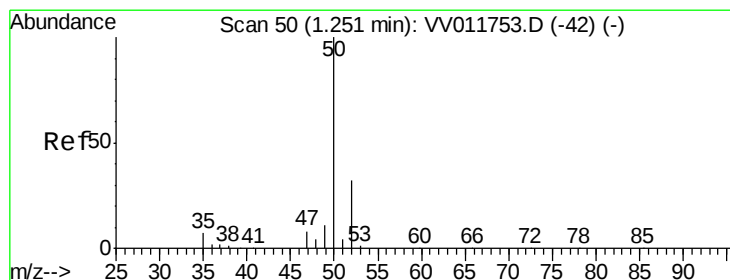
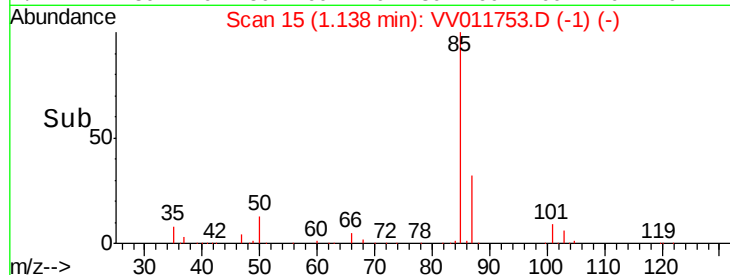
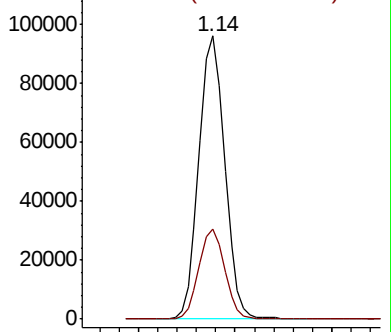
Ion Ratio Lower Upper

85 100

87 32.1 25.0 37.4



Abundance Ion 85.00 (84.70 to 85.70): VV011753.D (-6) (-)



#3

Chloromethane

Concen: 4.642 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV011753.D

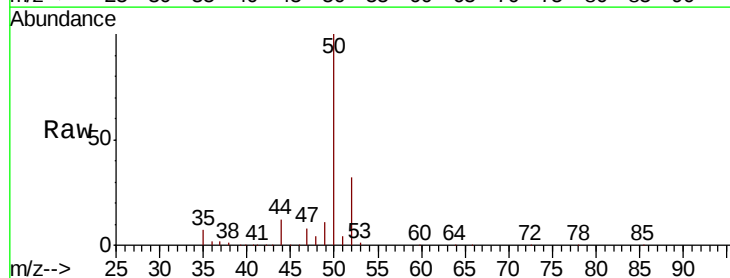
Acq: 26 Jun 2019 10:38

Tgt Ion: 50 Resp: 85198

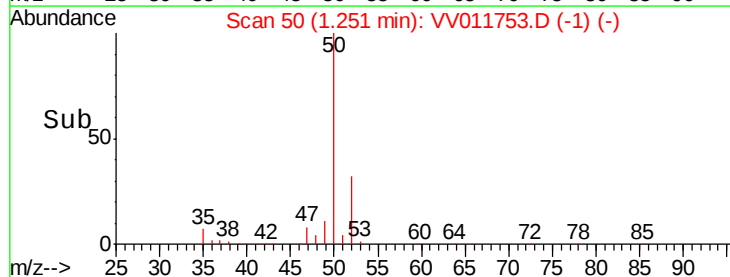
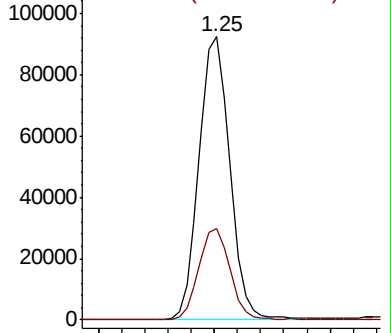
Ion Ratio Lower Upper

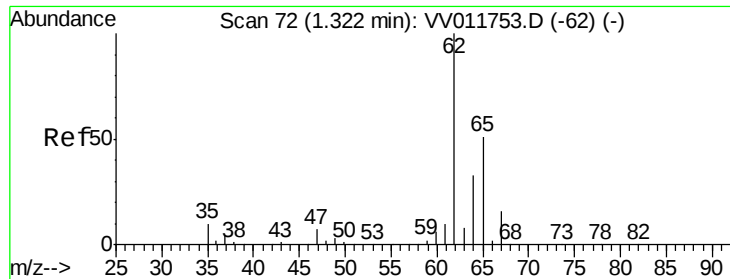
50 100

52 32.3 22.0 40.8



Abundance Ion 50.05 (49.75 to 50.75): VV011753.D (-42) (-)





#5

Vinyl chloride

Concen: 4.558 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV011753.D

Acq: 26 Jun 2019 10:38

Instrument :

MSVOA_V

ClientSampleId :

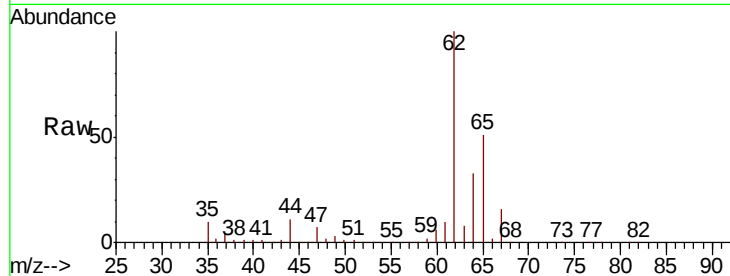
VSTD00551

Tgt Ion: 62 Resp: 81959

Ion Ratio Lower Upper

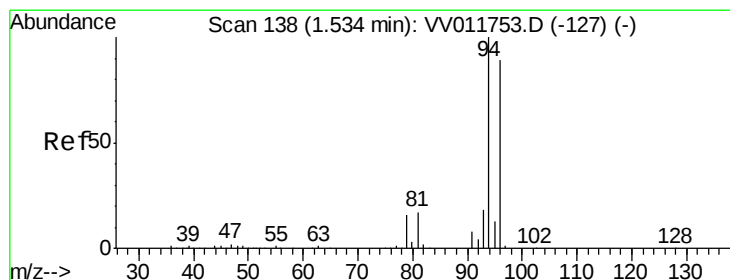
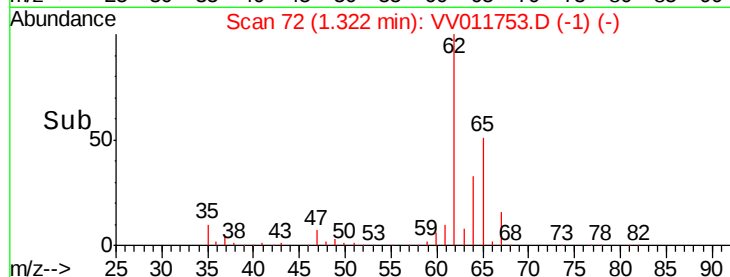
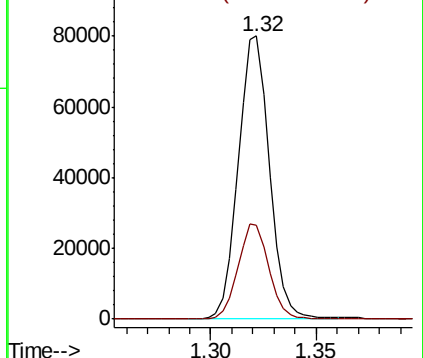
62 100

64 33.1 24.1 44.7



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#6

Bromomethane

Concen: 4.008 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV011753.D

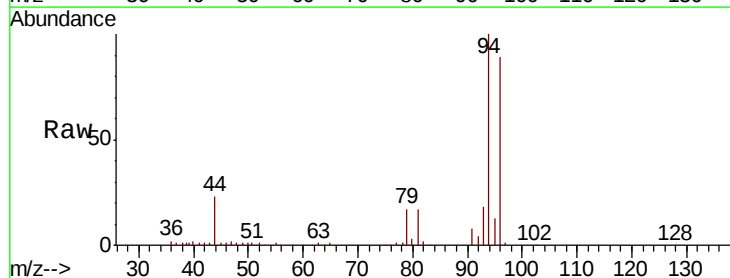
Acq: 26 Jun 2019 10:38

Tgt Ion: 94 Resp: 31418

Ion Ratio Lower Upper

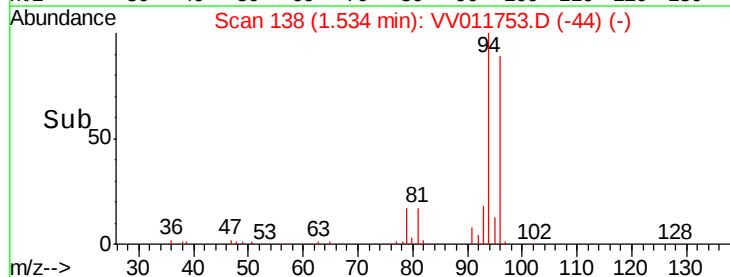
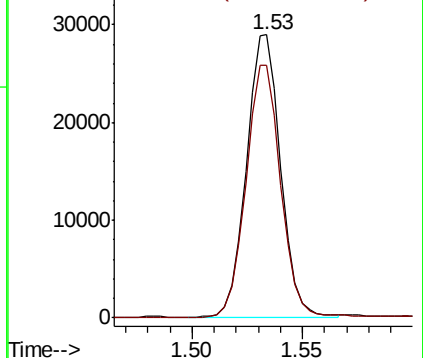
94 100

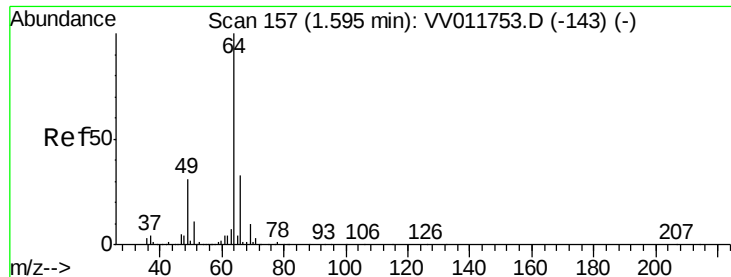
96 89.2 65.2 121.2



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 4.598 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV011753.D

Acq: 26 Jun 2019 10:38

Instrument :

MSVOA_V

ClientSampleId :

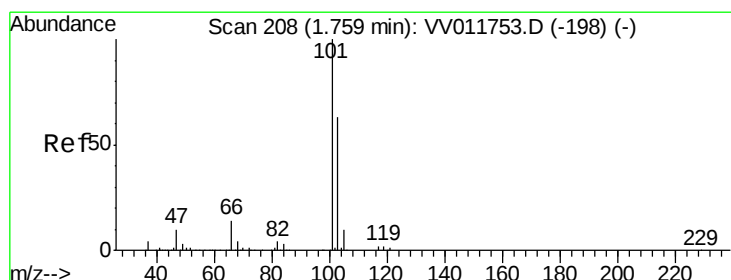
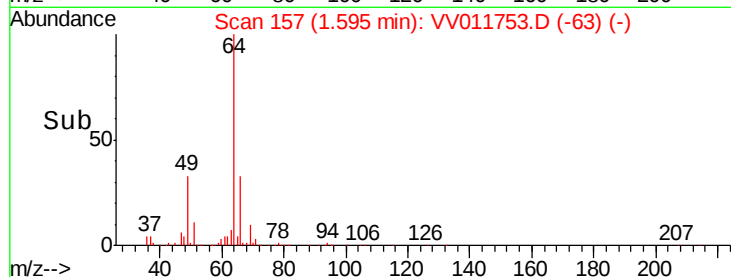
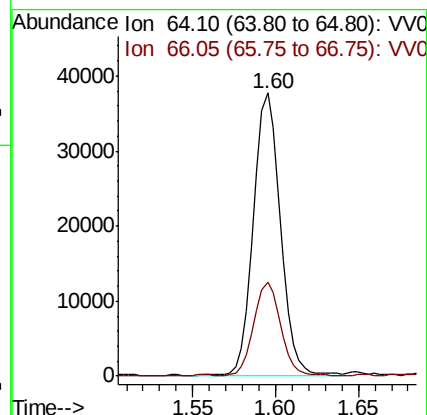
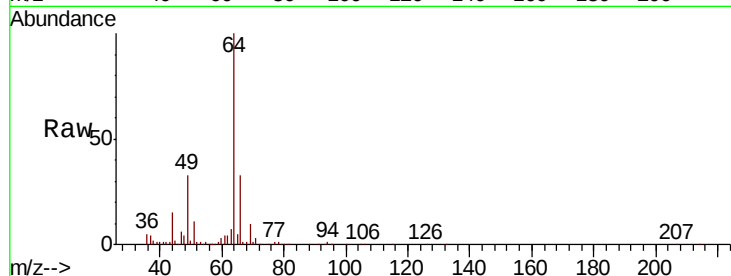
VSTD00551

Tgt Ion: 64 Resp: 43208

Ion Ratio Lower Upper

64 100

66 33.2 20.6 38.4



#9

Trichlorofluoromethane

Concen: 4.842 ug/L

RT: 1.76 min Scan# 208

Delta R.T. -0.00 min

Lab File: VV011753.D

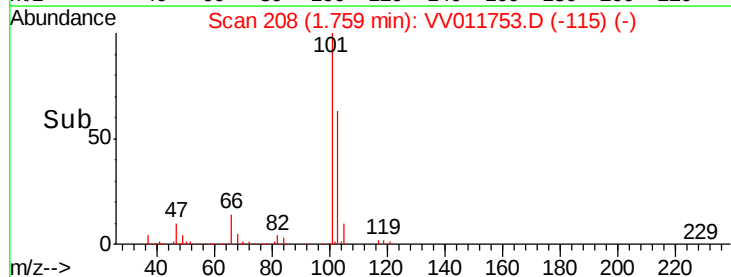
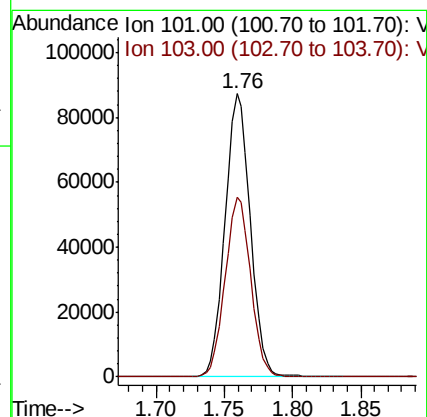
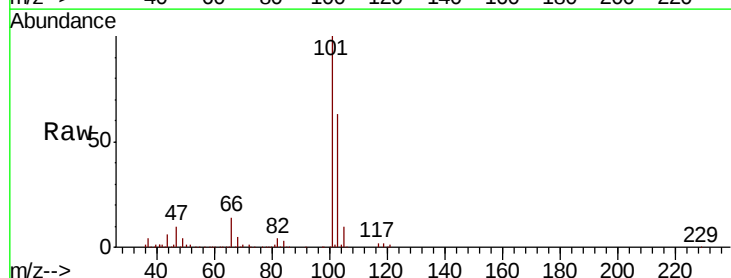
Acq: 26 Jun 2019 10:38

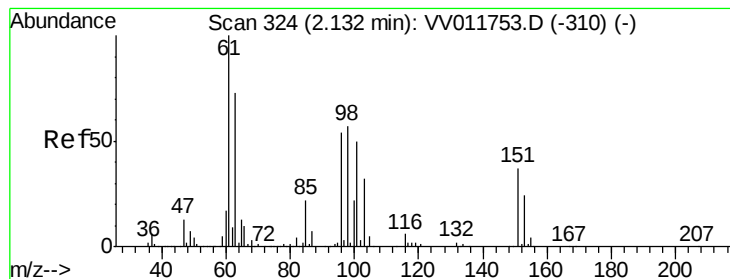
Tgt Ion: 101 Resp: 112658

Ion Ratio Lower Upper

101 100

103 64.0 52.2 78.2





#10

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

Concen: 4.793 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV011753.D

Acq: 26 Jun 2019 10:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD00551

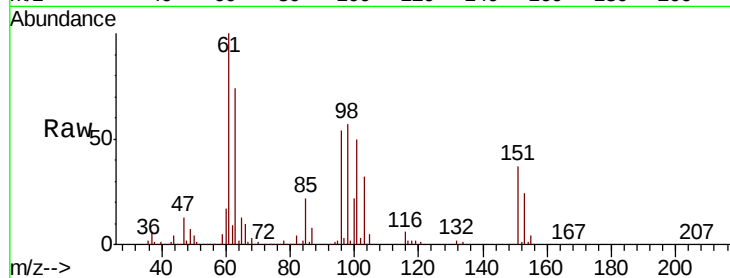
Tgt Ion: 101 Resp: 63198

Ion Ratio Lower Upper

101 100

85 44.7 35.9 53.9

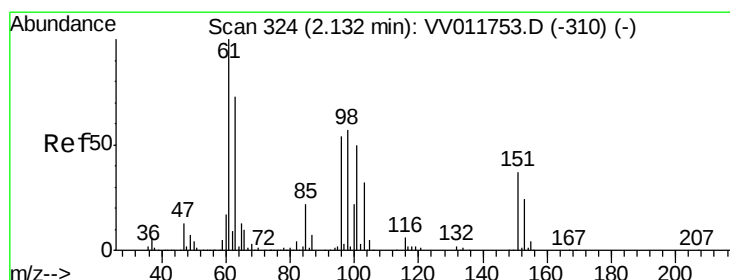
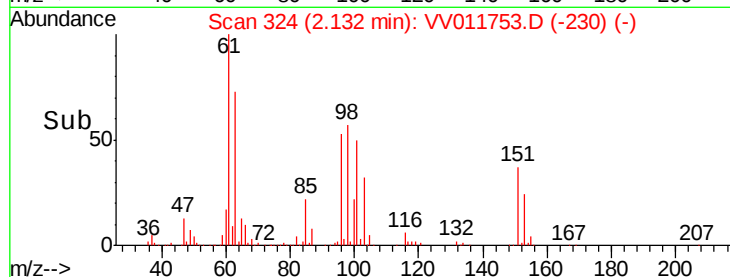
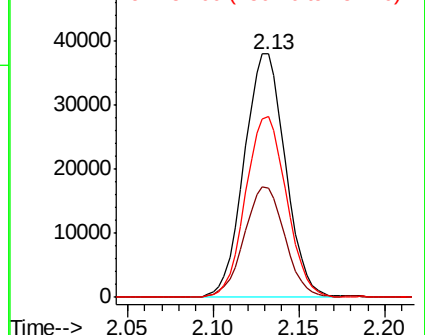
151 73.7 57.4 86.2



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: 4.716 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV011753.D

Acq: 26 Jun 2019 10:38

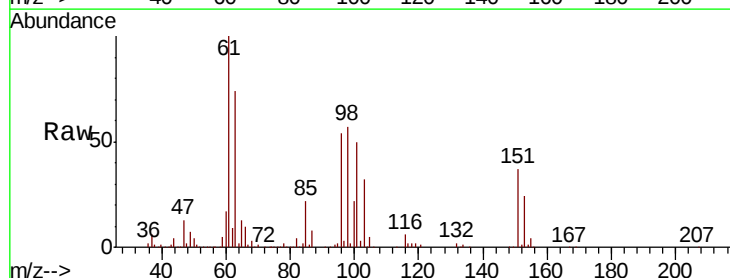
Tgt Ion: 96 Resp: 56760

Ion Ratio Lower Upper

96 100

61 186.6 131.5 244.1

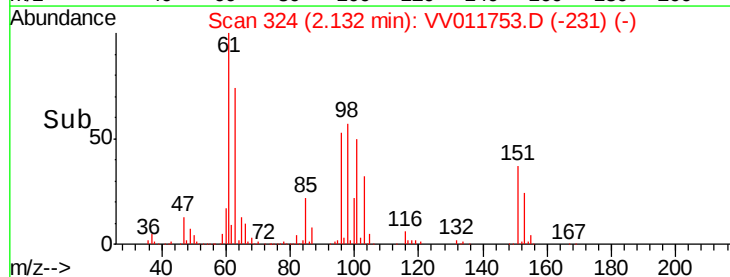
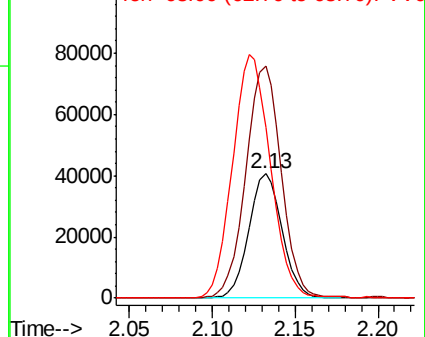
63 137.3 91.8 170.4

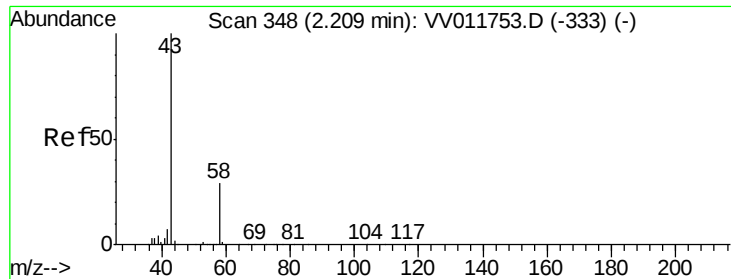


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 44.674 ug/L

RT: 2.21 min Scan# 348

Delta R.T. 0.00 min

Lab File: VV011753.D

Acq: 26 Jun 2019 10:38

Instrument :

MSVOA_V

ClientSampleId :

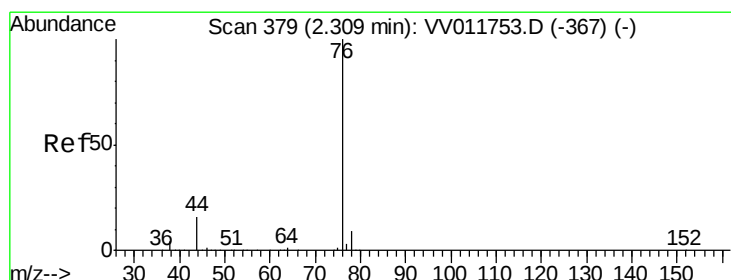
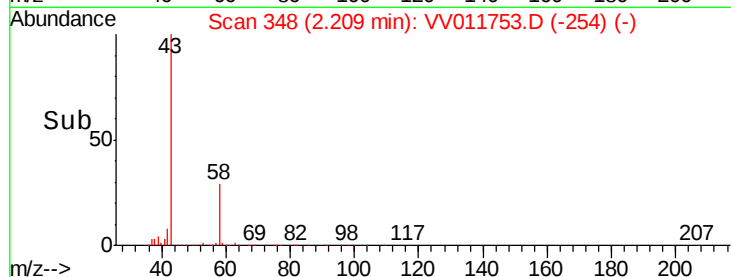
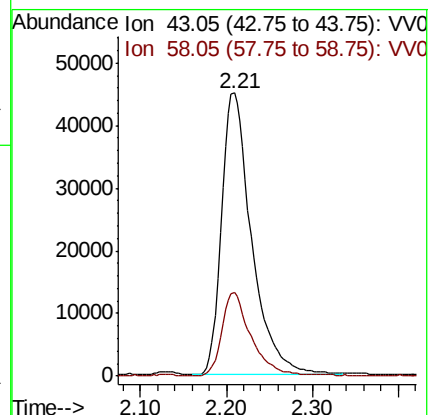
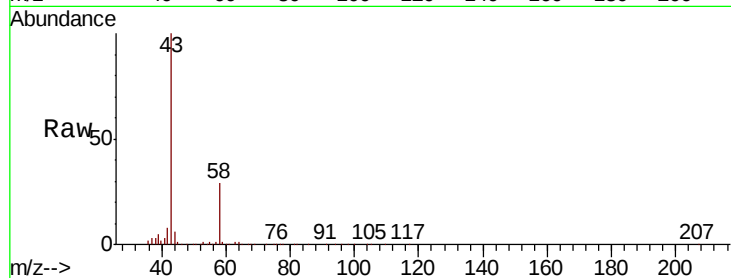
VSTD00551

Tgt Ion: 43 Resp: 109721

Ion Ratio Lower Upper

43 100

58 28.3 0.0 56.6



#14

Carbon disulfide

Concen: 4.328 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV011753.D

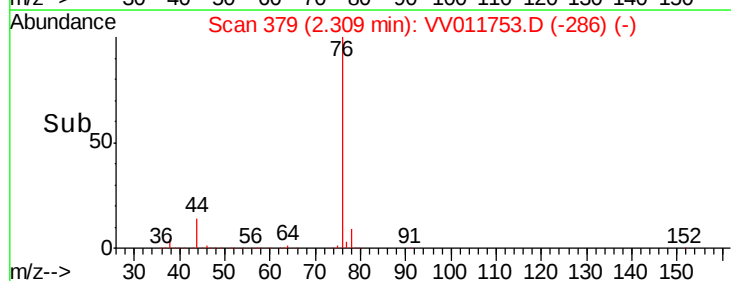
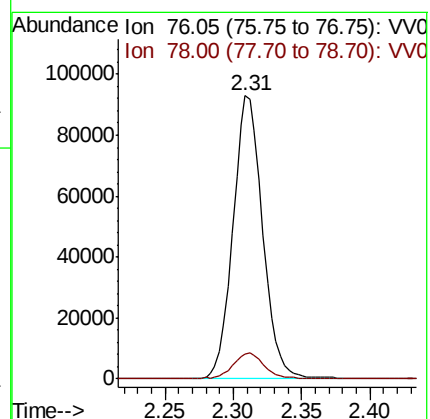
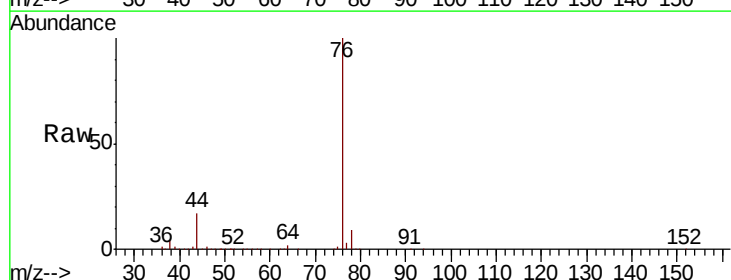
Acq: 26 Jun 2019 10:38

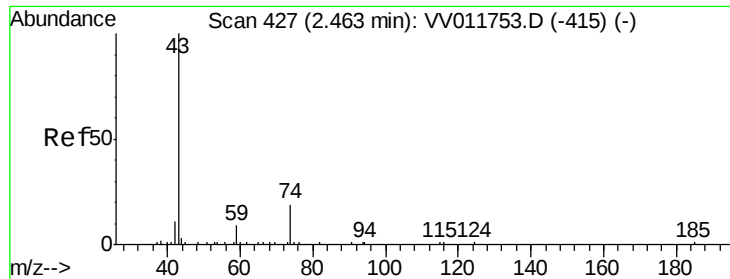
Tgt Ion: 76 Resp: 140189

Ion Ratio Lower Upper

76 100

78 9.0 7.0 10.4

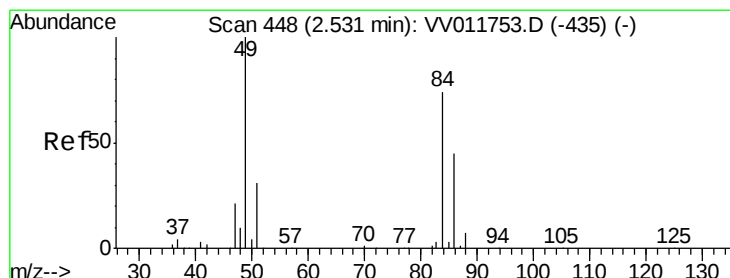
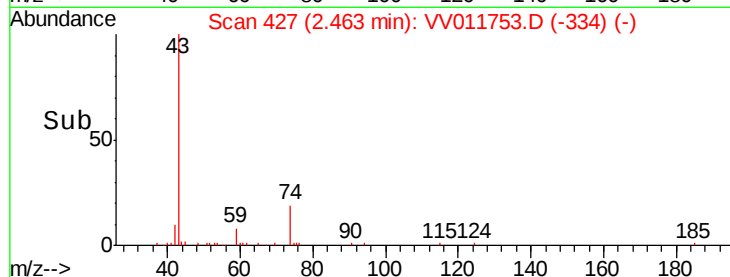
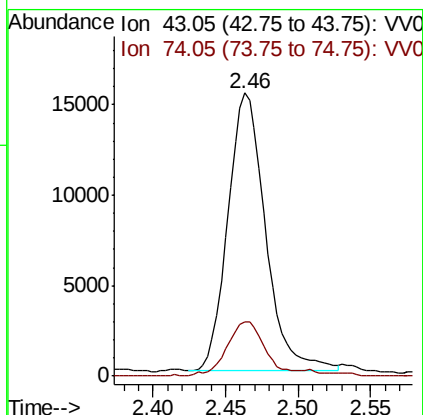
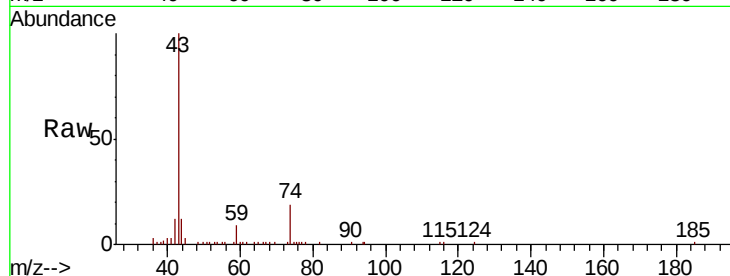




#15
Methyl Acetate
Concen: 4.539 ug/L
RT: 2.46 min Scan# 427
Delta R.T. -0.00 min
Lab File: VV011753.D
Acq: 26 Jun 2019 10:38

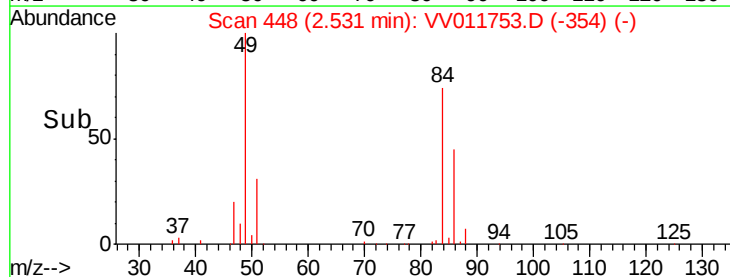
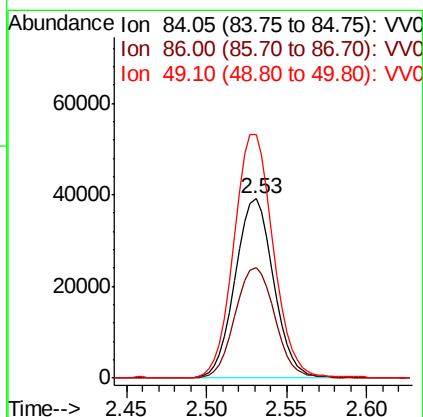
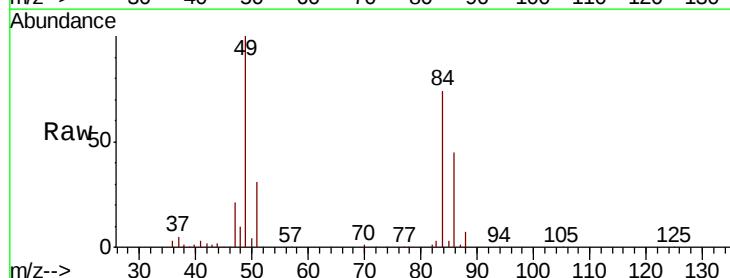
Instrument :
MSVOA_V
ClientSampleId :
VSTD00551

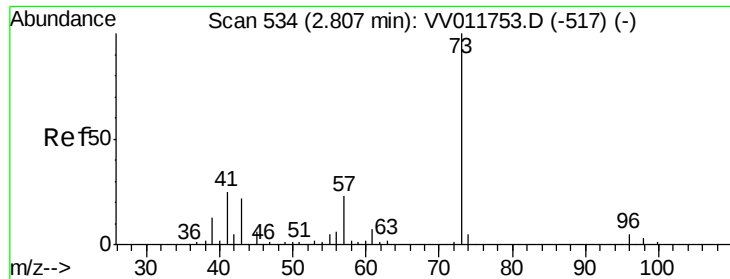
Tgt Ion: 43 Resp: 27759
Ion Ratio Lower Upper
43 100
74 19.6 16.2 24.2



#16
Methylene chloride
Concen: 4.797 ug/L
RT: 2.53 min Scan# 448
Delta R.T. 0.00 min
Lab File: VV011753.D
Acq: 26 Jun 2019 10:38

Tgt Ion: 84 Resp: 64332
Ion Ratio Lower Upper
84 100
86 61.4 44.9 83.5
49 135.7 101.4 188.2

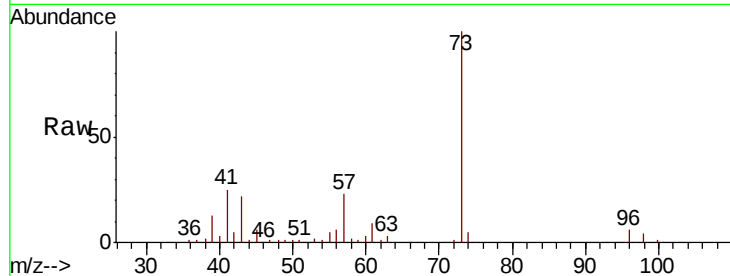




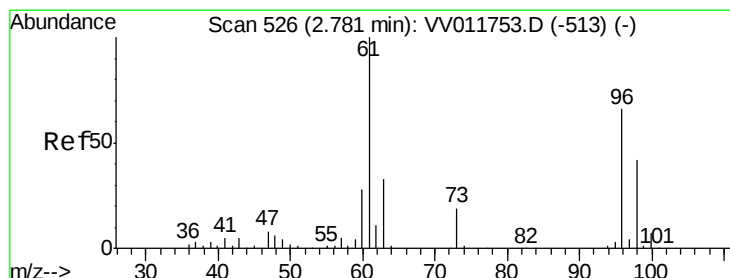
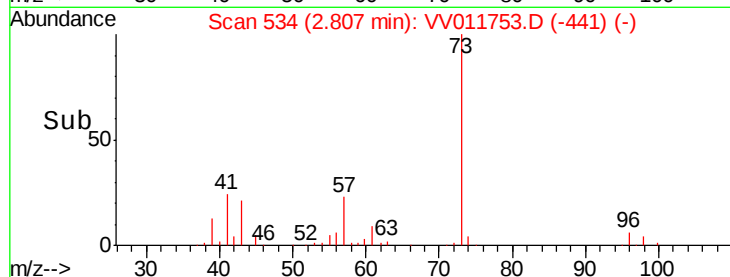
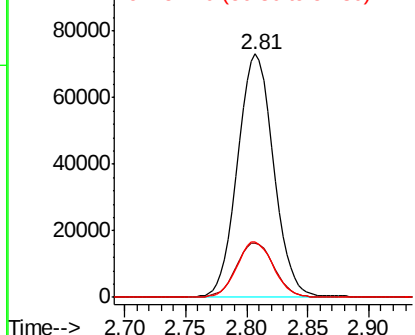
#17
Methyl tert-butyl Ether
Concen: 4.545 ug/L
RT: 2.81 min Scan# 534
Delta R.T. -0.00 min
Lab File: VV011753.D
Acq: 26 Jun 2019 10:38

Instrument :
MSVOA_V
ClientSampleId :
VSTD00551

Tgt Ion: 73 Resp: 149631
Ion Ratio Lower Upper
73 100
43 23.0 18.9 28.3
57 23.2 18.0 27.0

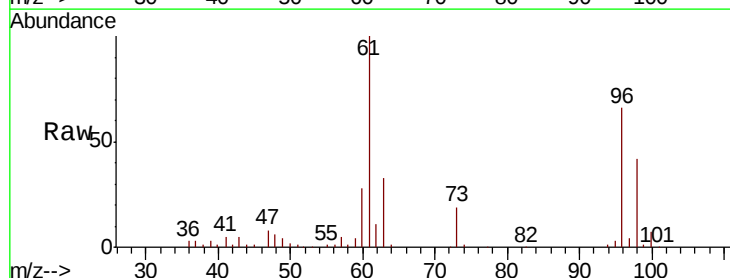


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

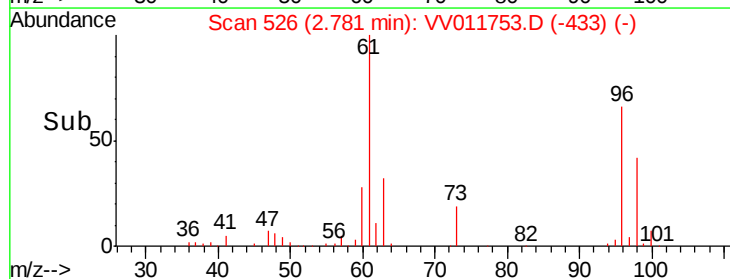
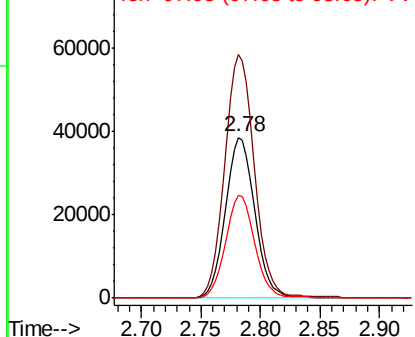


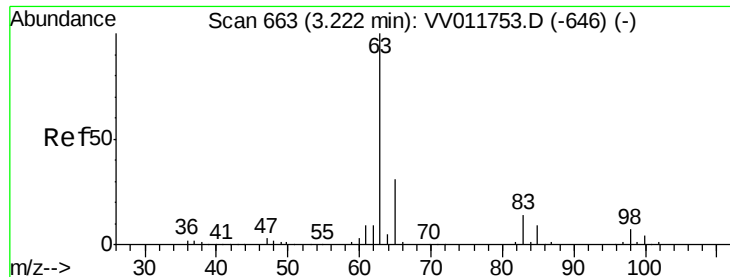
#18
trans-1,2-Dichloroethene
Concen: 4.676 ug/L
RT: 2.78 min Scan# 526
Delta R.T. -0.00 min
Lab File: VV011753.D
Acq: 26 Jun 2019 10:38

Tgt Ion: 96 Resp: 66160
Ion Ratio Lower Upper
96 100
61 151.6 109.3 203.1
98 64.4 44.6 82.8



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0





#19

1,1-Dichloroethane

Concen: 4.655 ug/L

RT: 3.22 min Scan# 663

Delta R.T. -0.00 min

Lab File: VV011753.D

Acq: 26 Jun 2019 10:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD00551

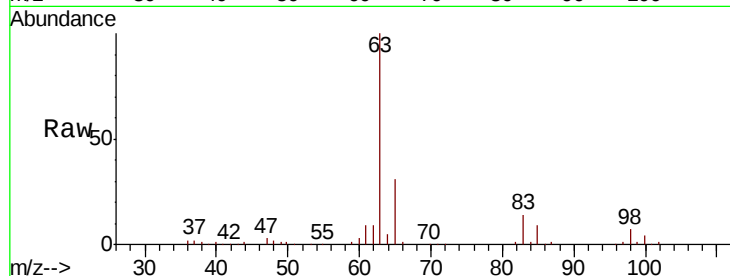
Tgt Ion: 63 Resp: 130926

Ion Ratio Lower Upper

63 100

65 30.6 23.0 42.8

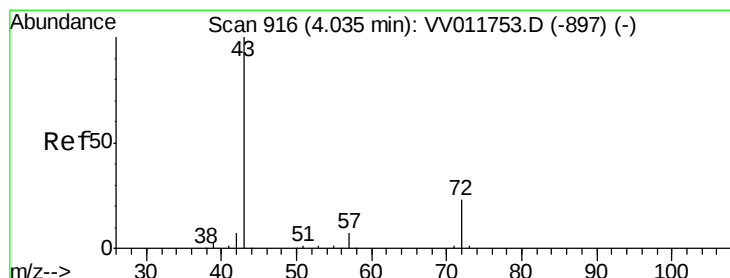
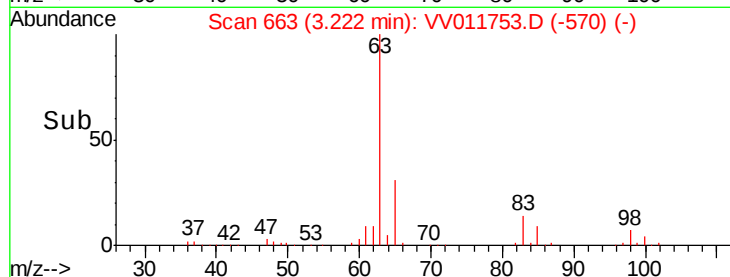
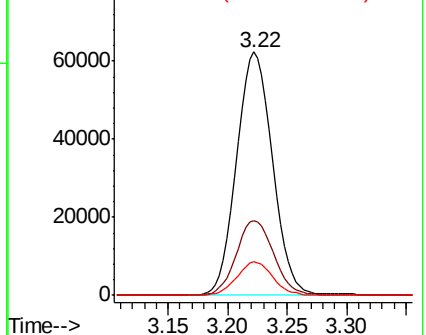
83 13.7 9.5 17.7



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 65.10 (64.80 to 65.80): VV0

Ion 83.05 (82.75 to 83.75): VV0



#21

2-Butanone

Concen: 46.799 ug/L

RT: 4.04 min Scan# 916

Delta R.T. -0.00 min

Lab File: VV011753.D

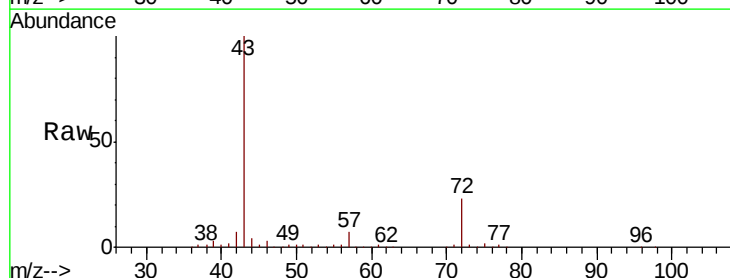
Acq: 26 Jun 2019 10:38

Tgt Ion: 43 Resp: 185186

Ion Ratio Lower Upper

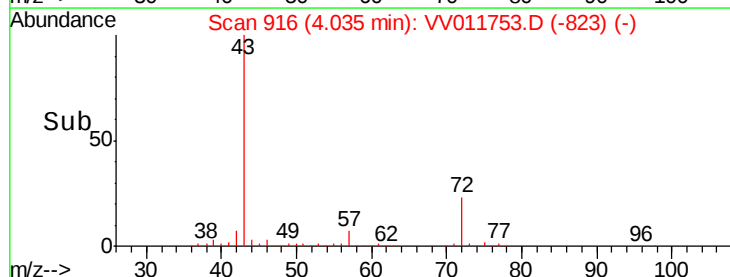
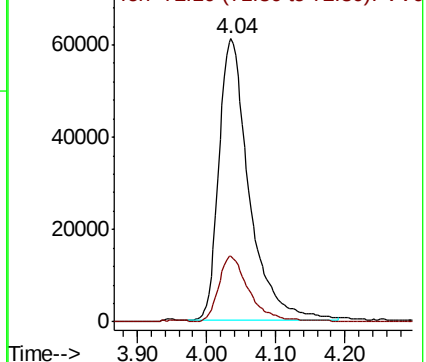
43 100

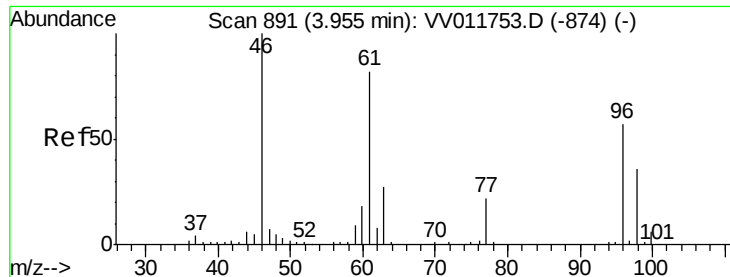
72 22.5 10.9 32.6



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 72.10 (71.80 to 72.80): VV0



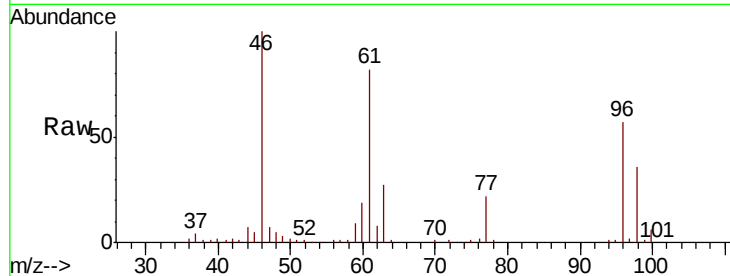


#22

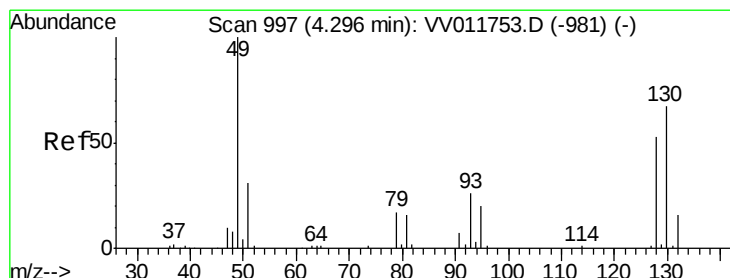
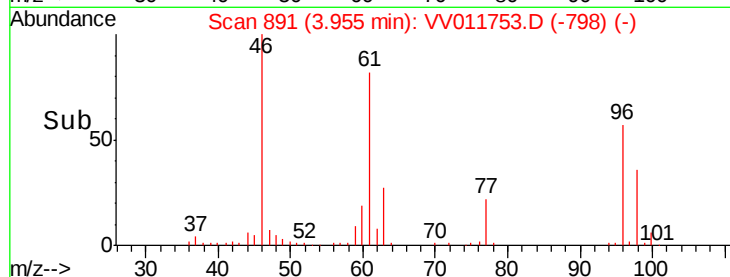
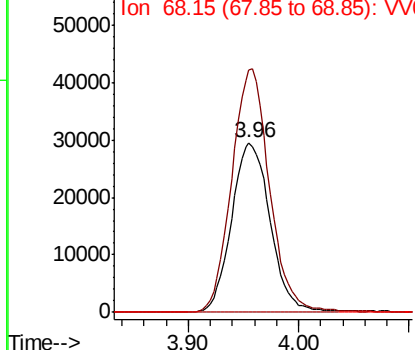
cis-1,2-Dichloroethene
 Concen: 4.599 ug/L
 RT: 3.96 min Scan# 891
 Delta R.T. -0.00 min
 Lab File: VV011753.D
 Acq: 26 Jun 2019 10:38

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD00551

Tgt Ion: 96 Resp: 71509
 Ion Ratio Lower Upper
 96 100
 61 142.9 97.9 181.7
 68 0.0 0.0 0.0



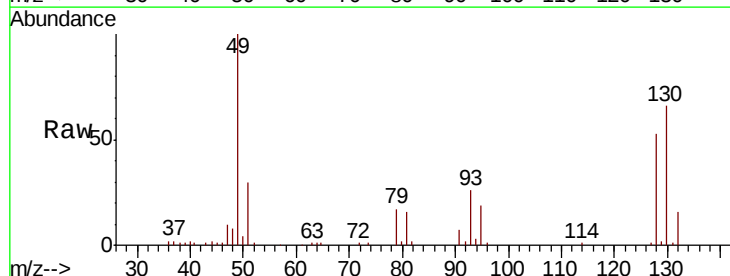
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



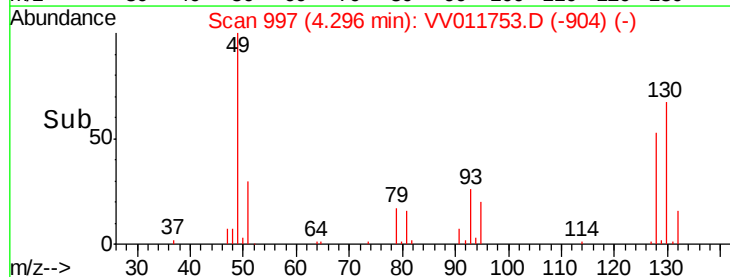
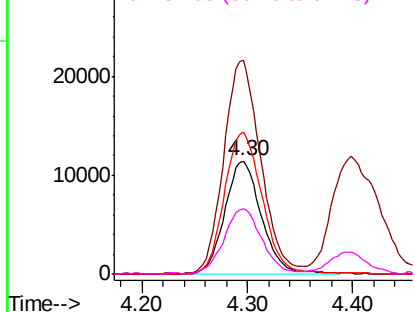
#23

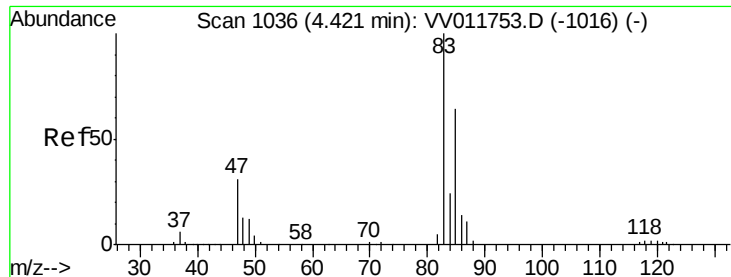
Bromochloromethane
 Concen: 4.696 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. -0.00 min
 Lab File: VV011753.D
 Acq: 26 Jun 2019 10:38

Tgt Ion: 128 Resp: 27512
 Ion Ratio Lower Upper
 128 100
 49 189.6 134.8 250.4
 130 125.6 91.2 169.4
 51 57.6 47.2 70.8



Abundance Ion 127.90 (127.60 to 128.60): V
 Ion 49.10 (48.80 to 49.80): VV0
 Ion 129.95 (129.65 to 130.65): V
 Ion 51.05 (50.75 to 51.75): VV0

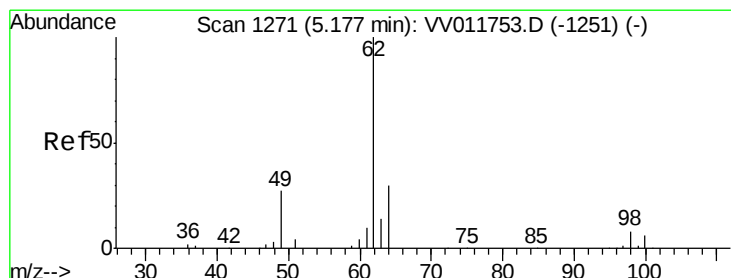
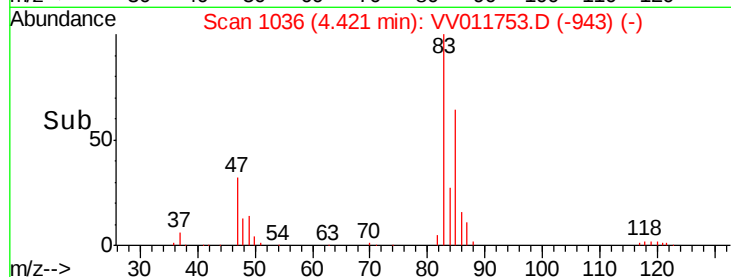
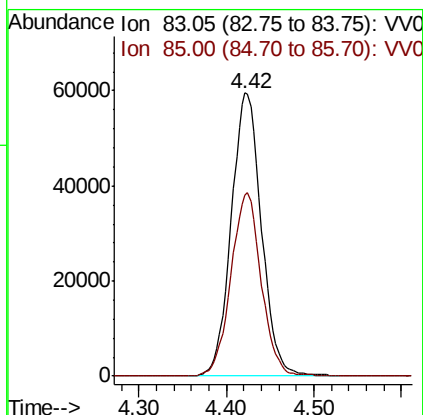
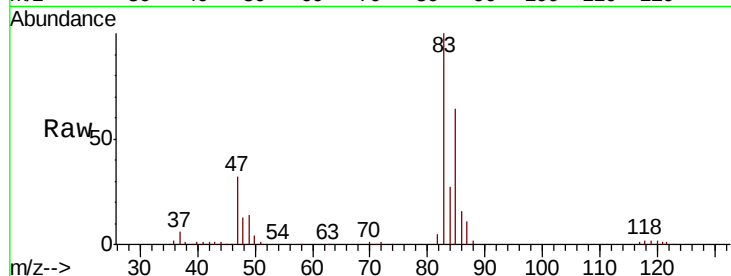




#25
Chloroform
Concen: 4.622 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV011753.D
Acq: 26 Jun 2019 10:38

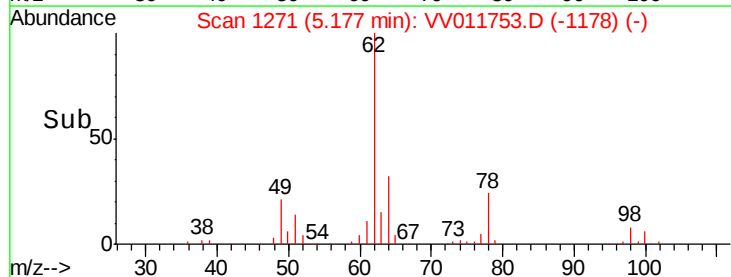
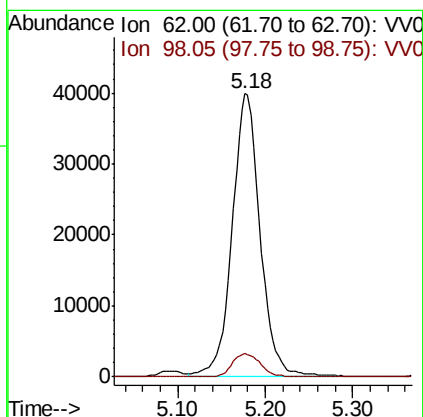
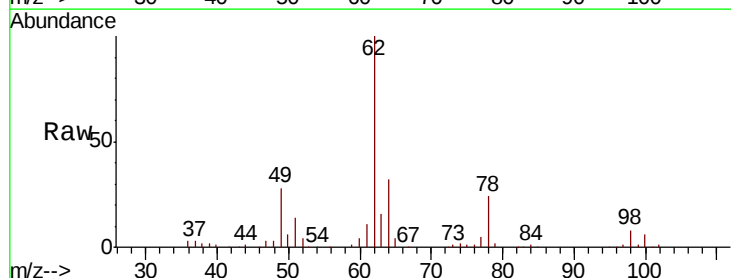
Instrument :
MSVOA_V
ClientSampled :
VSTD00551

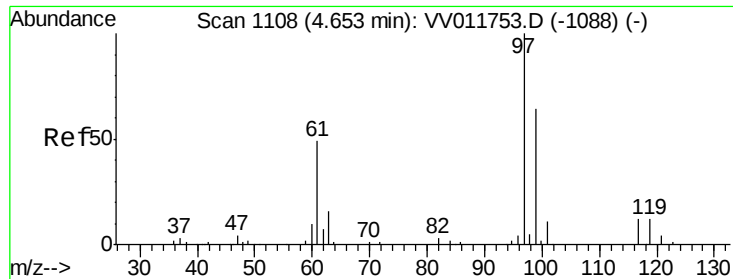
Tgt Ion: 83 Resp: 142723
Ion Ratio Lower Upper
83 100
85 63.9 47.0 87.2



#27
1,2-Dichloroethane
Concen: 4.698 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV011753.D
Acq: 26 Jun 2019 10:38

Tgt Ion: 62 Resp: 87916
Ion Ratio Lower Upper
62 100
98 8.2 6.2 9.4

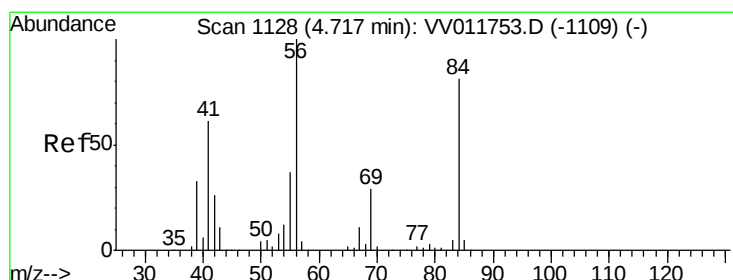
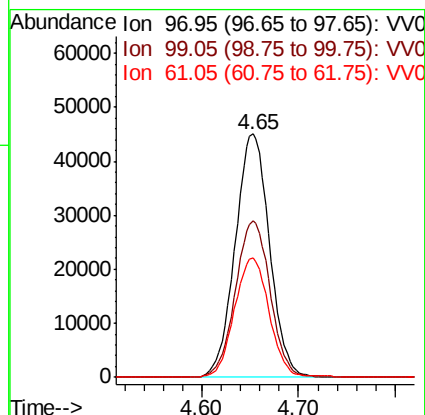
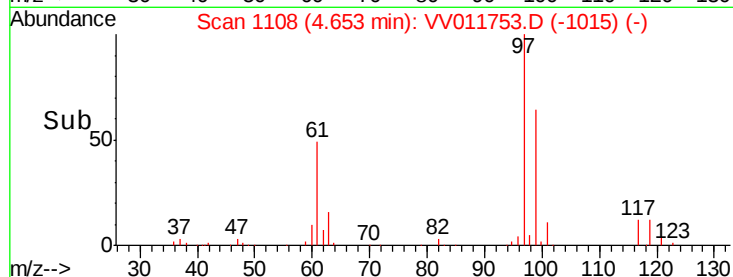
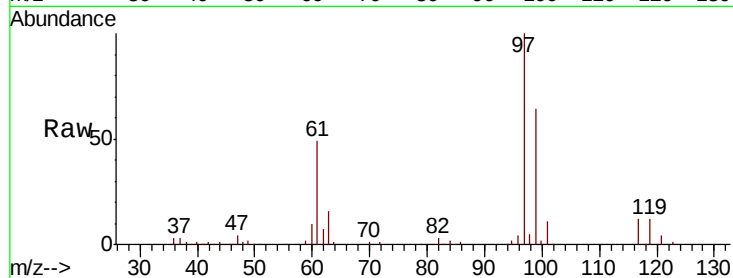




#29
1,1,1-Trichloroethane
Concen: 4.788 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. -0.00 min
Lab File: VV011753.D
Acq: 26 Jun 2019 10:38

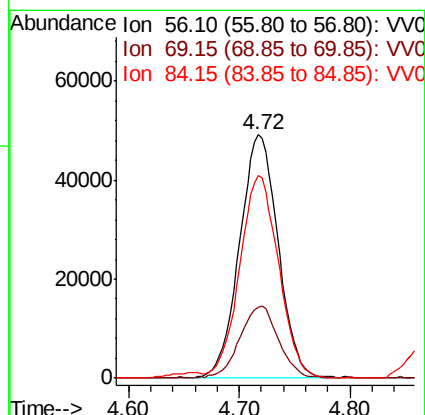
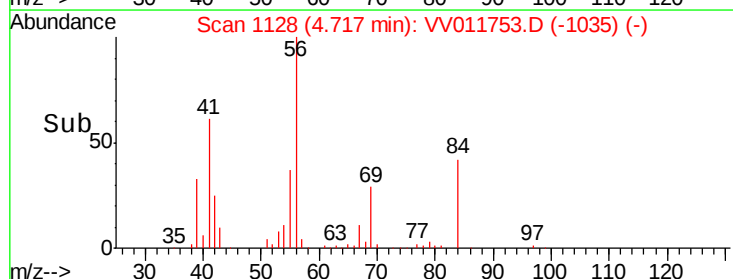
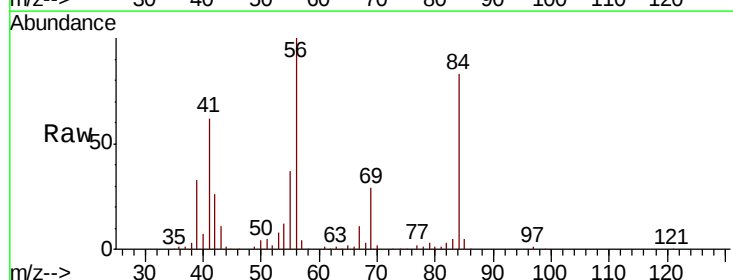
Instrument :
MSVOA_V
ClientSampleId :
VSTD00551

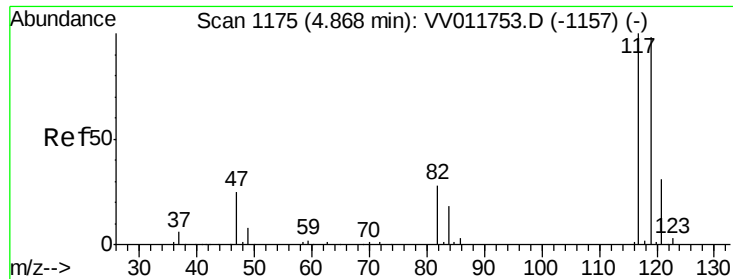
Tgt Ion: 97 Resp: 111322
Ion Ratio Lower Upper
97 100
99 64.9 51.6 77.4
61 49.5 39.8 59.6



#30
Cyclohexane
Concen: 4.485 ug/L
RT: 4.72 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VV011753.D
Acq: 26 Jun 2019 10:38

Tgt Ion: 56 Resp: 119114
Ion Ratio Lower Upper
56 100
69 29.7 23.2 34.8
84 83.3 65.0 97.4





#31

Carbon tetrachloride

Concen: 4.729 ug/L

RT: 4.87 min Scan# 1175

Delta R.T. -0.00 min

Lab File: VV011753.D

Acq: 26 Jun 2019 10:38

Instrument :

MSVOA_V

ClientSampleId :

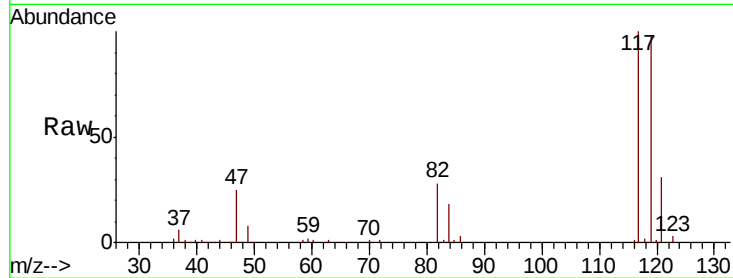
VSTD00551

Tgt Ion:117 Resp: 92942

Ion Ratio Lower Upper

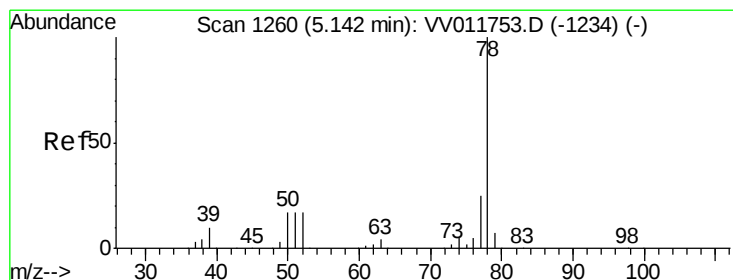
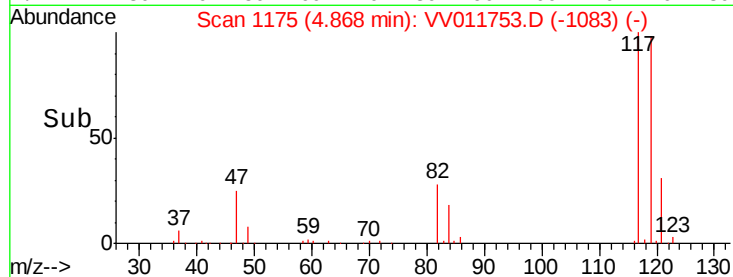
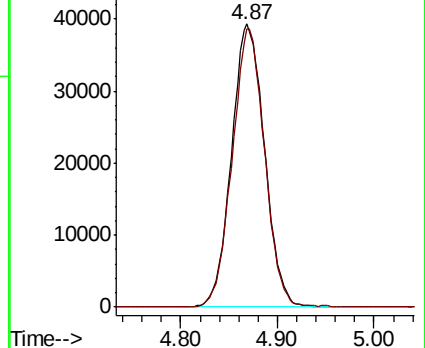
117 100

119 96.5 77.1 115.7



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.796 ug/L

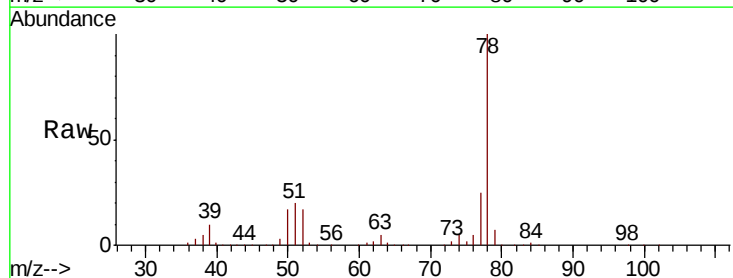
RT: 5.14 min Scan# 1260

Delta R.T. -0.00 min

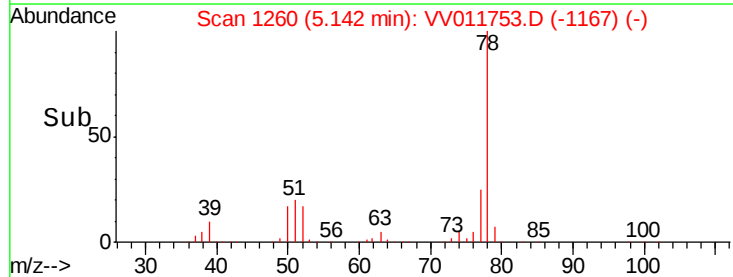
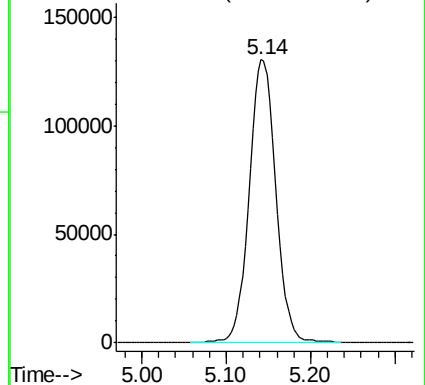
Lab File: VV011753.D

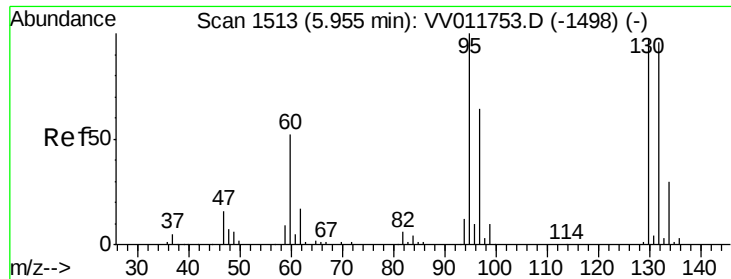
Acq: 26 Jun 2019 10:38

Tgt Ion: 78 Resp: 287108



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 4.569 ug/L

RT: 5.95 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV011753.D

Acq: 26 Jun 2019 10:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD00551

Tgt Ion: 95 Resp: 72536

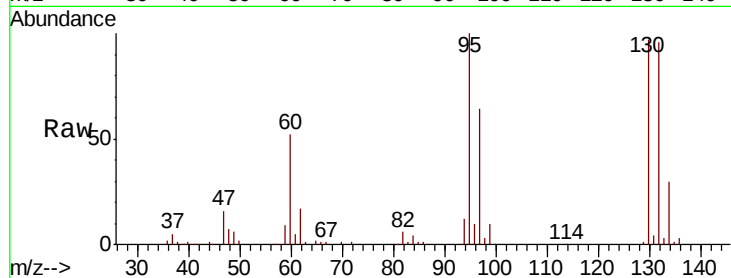
Ion Ratio Lower Upper

95 100

97 63.8 44.4 82.5

132 95.9 65.0 120.6

130 97.0 67.1 124.7

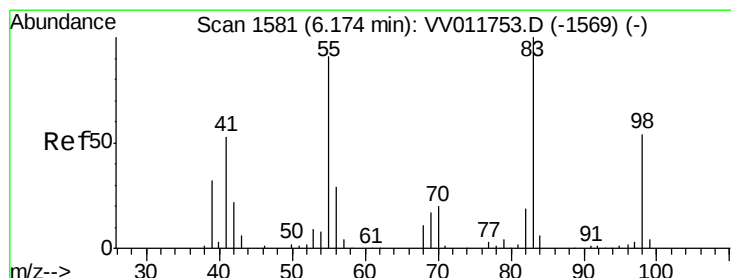
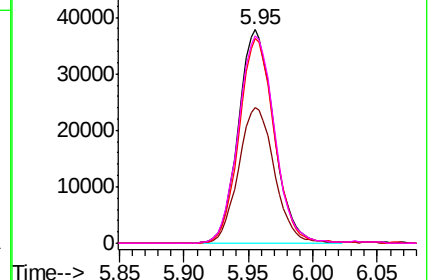
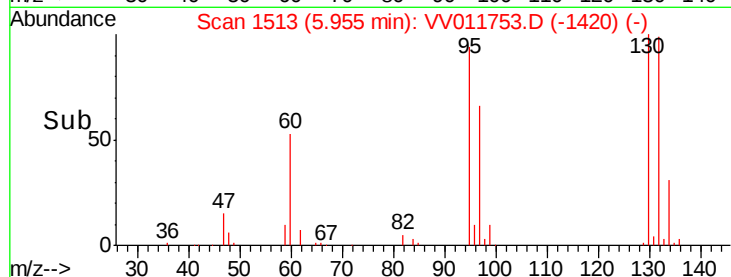


Abundance Ion 95.00 (94.70 to 95.70): VV011753.D (-1498) (-)

Ion 96.95 (96.65 to 97.65): VV011753.D (-1498) (-)

Ion 131.95 (131.65 to 132.65): VV011753.D (-1498) (-)

Ion 129.95 (129.65 to 130.65): VV011753.D (-1498) (-)



#35

Methylcyclohexane

Concen: 4.579 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV011753.D

Acq: 26 Jun 2019 10:38

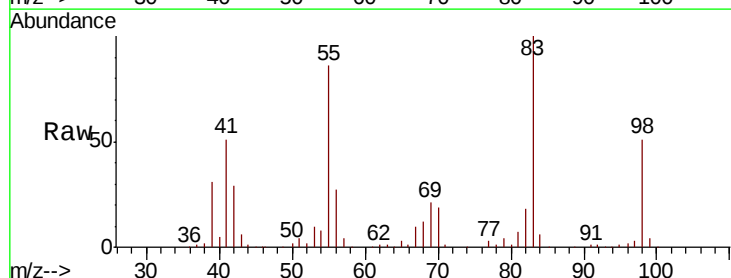
Tgt Ion: 83 Resp: 117372

Ion Ratio Lower Upper

83 100

55 86.2 69.4 104.2

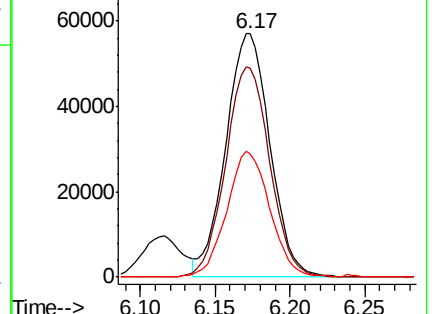
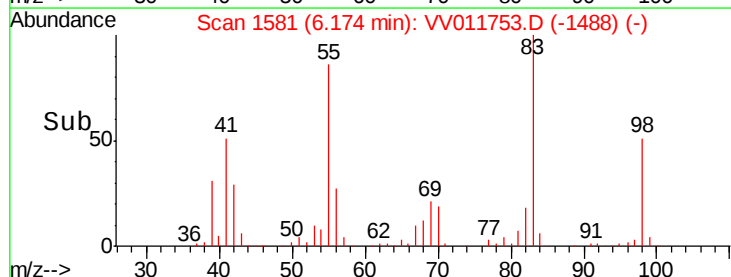
98 50.4 40.2 60.4

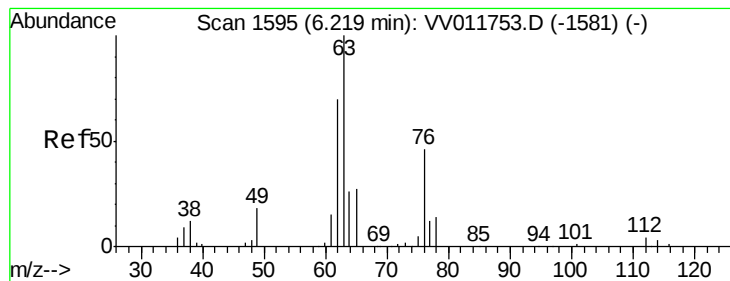


Abundance Ion 83.15 (82.85 to 83.85): VV011753.D (-1569) (-)

Ion 55.10 (54.80 to 55.80): VV011753.D (-1569) (-)

Ion 98.15 (97.85 to 98.85): VV011753.D (-1569) (-)





#37

1,2-Dichloropropane

Concen: 4.716 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VV011753.D

Acq: 26 Jun 2019 10:38

Instrument :

MSVOA_V

ClientSampleId :

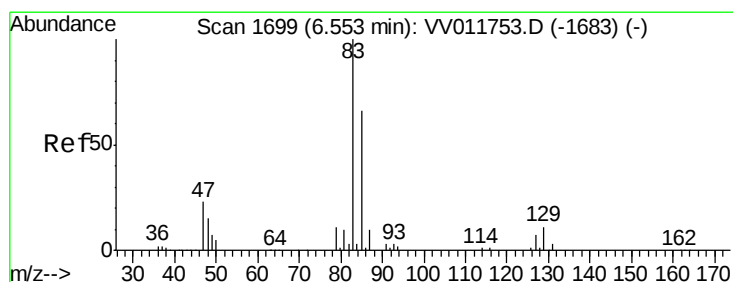
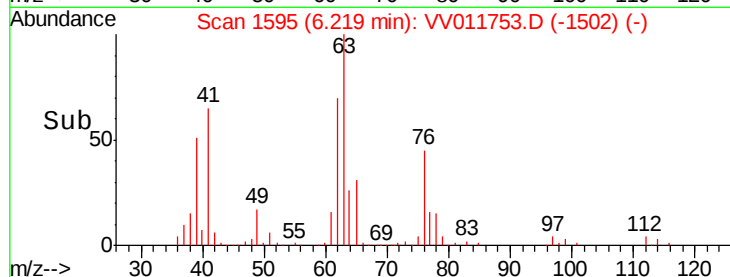
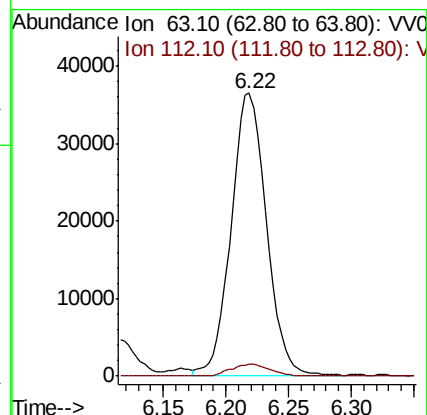
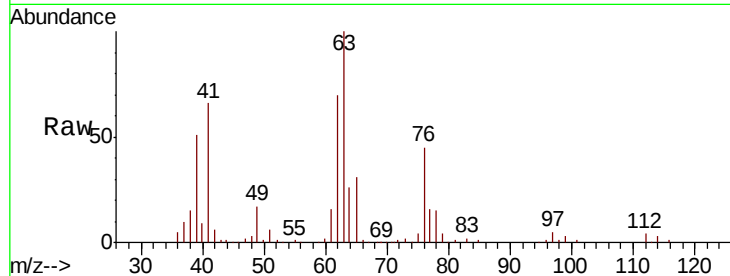
VSTD00551

Tgt Ion: 63 Resp: 71682

Ion Ratio Lower Upper

63 100

112 4.5 3.4 5.2



#38

Bromodichloromethane

Concen: 4.719 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV011753.D

Acq: 26 Jun 2019 10:38

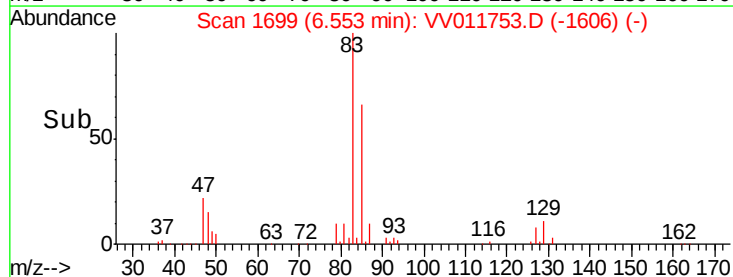
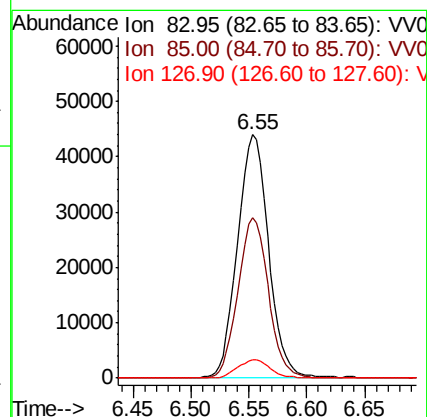
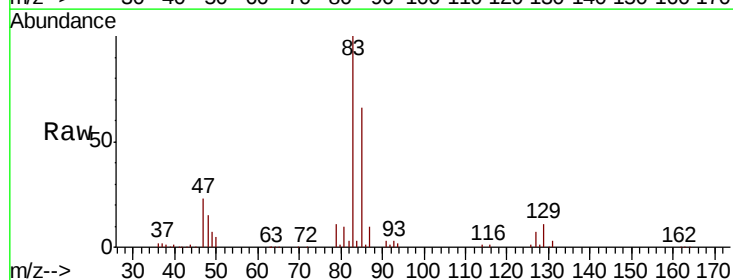
Tgt Ion: 83 Resp: 81808

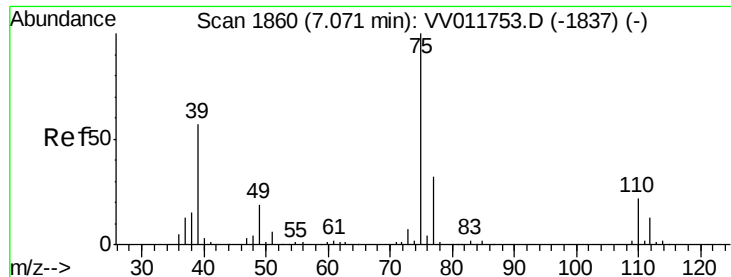
Ion Ratio Lower Upper

83 100

85 66.1 44.5 82.7

127 7.5 6.2 9.2

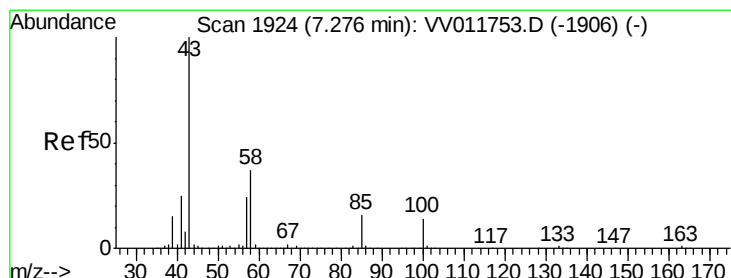
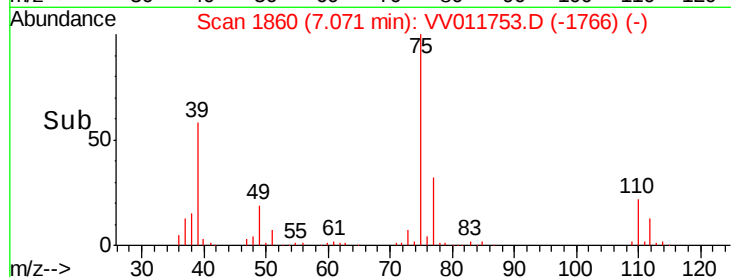
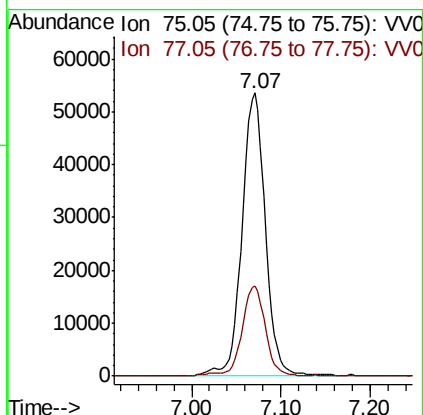
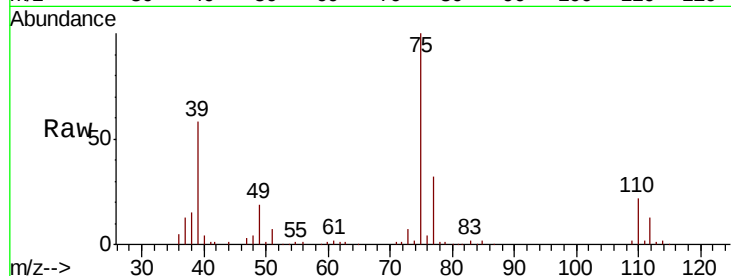




#39
 cis-1,3-Dichloropropene
 Concen: 4.904 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV011753.D
 Acq: 26 Jun 2019 10:38

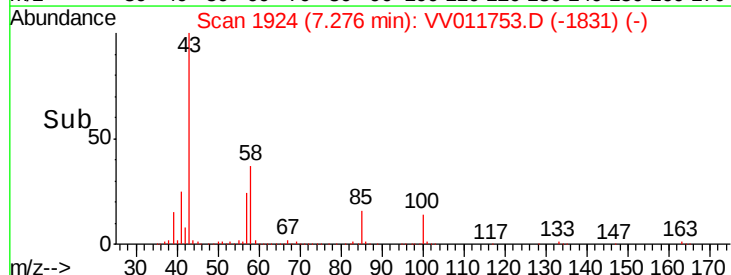
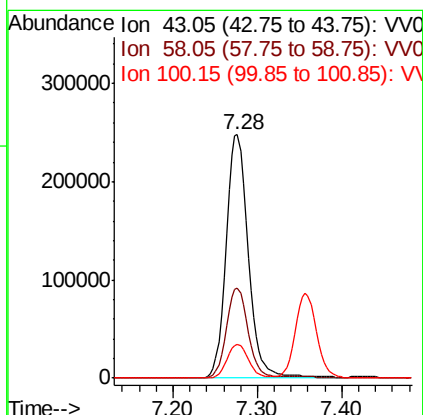
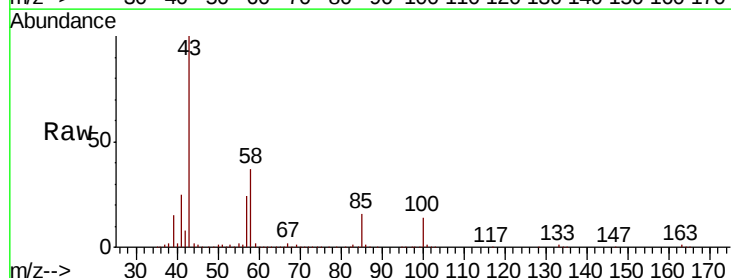
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00551

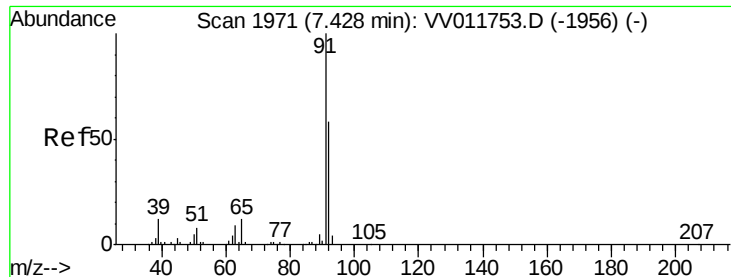
Tgt Ion: 75 Resp: 97823
 Ion Ratio Lower Upper
 75 100
 77 31.8 22.4 41.6



#40
 4-Methyl-2-pentanone
 Concen: 47.404 ug/L
 RT: 7.28 min Scan# 1924
 Delta R.T. -0.00 min
 Lab File: VV011753.D
 Acq: 26 Jun 2019 10:38

Tgt Ion: 43 Resp: 451982
 Ion Ratio Lower Upper
 43 100
 58 36.2 28.6 43.0
 100 13.4 10.7 16.1





#42

Toluene

Concen: 4.819 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV011753.D

Acq: 26 Jun 2019 10:38

Instrument :

MSVOA_V

ClientSampleId :

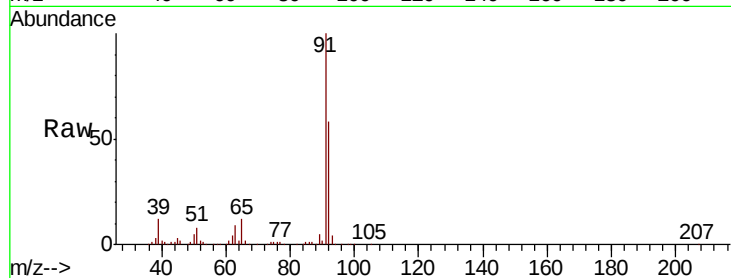
VSTD00551

Tgt Ion: 91 Resp: 301434

Ion Ratio Lower Upper

91 100

92 58.2 40.3 74.9



Abundance Ion 91.15 (90.85 to 91.85): VV011753.D (-1956) (-)

Ion 92.15 (91.85 to 92.85): VV011753.D (-1878) (-)

7.43

150000

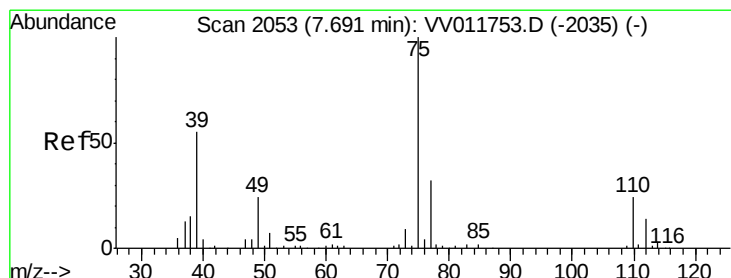
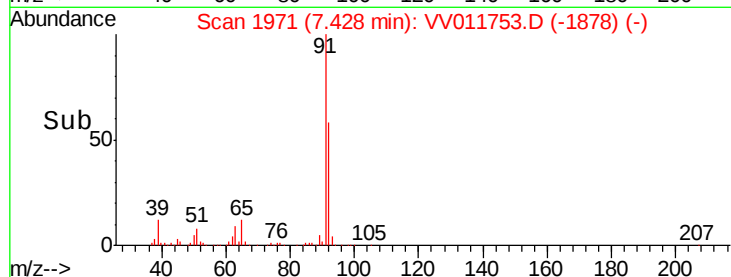
100000

50000

0

7.40 7.50

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.971 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV011753.D

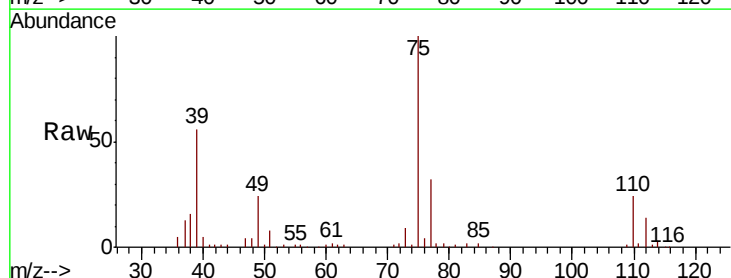
Acq: 26 Jun 2019 10:38

Tgt Ion: 75 Resp: 73439

Ion Ratio Lower Upper

75 100

77 32.3 22.7 42.1



Abundance Ion 75.05 (74.75 to 75.75): VV011753.D (-2035) (-)

Ion 77.05 (76.75 to 77.75): VV011753.D (-1960) (-)

7.69

50000

40000

30000

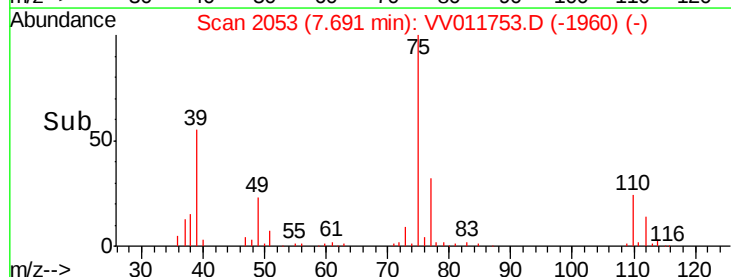
20000

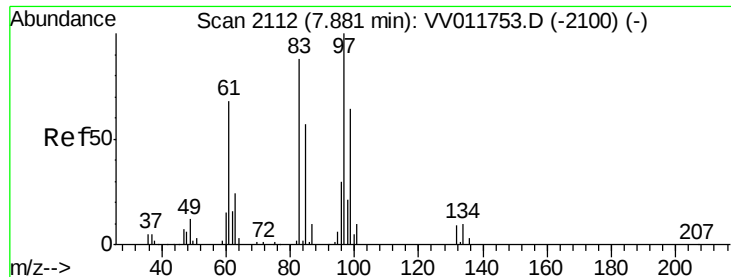
10000

0

7.60 7.70 7.80

Time-->

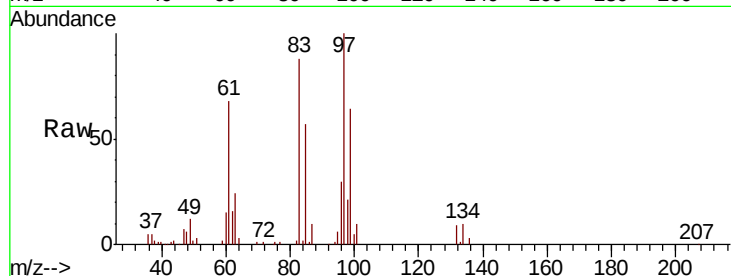




#45
 1,1,2-Trichloroethane
 Concen: 4.760 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV011753.D
 Acq: 26 Jun 2019 10:38

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00551

Tgt Ion:	97	Resp:	45929
Ion	Ratio	Lower	Upper
97	100		
99	63.6	45.7	84.9
83	88.5	65.0	120.6
85	57.1	42.4	78.6



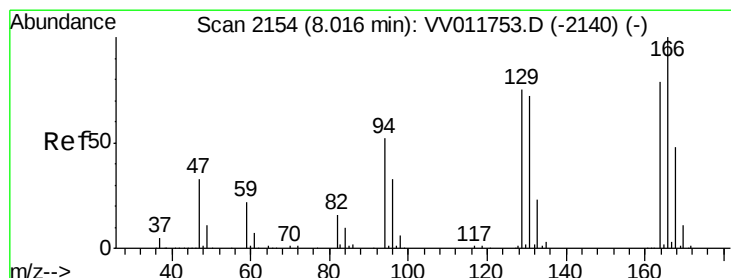
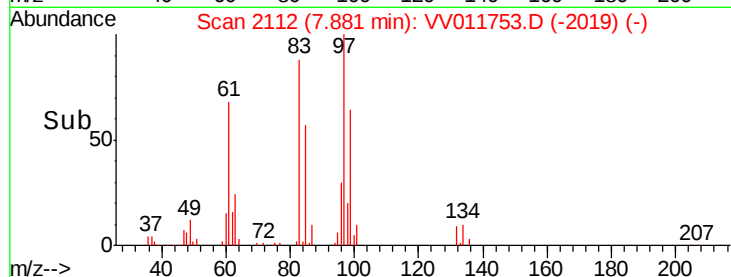
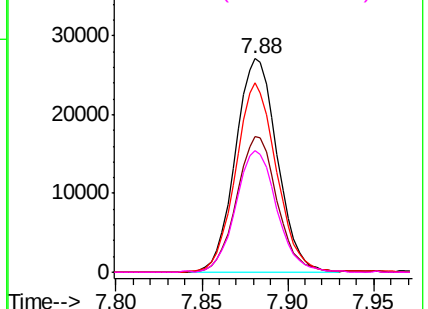
Abundance

Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

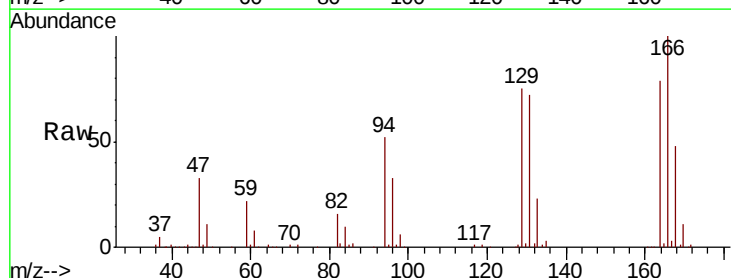
Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47
 Tetrachloroethene
 Concen: 4.783 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV011753.D
 Acq: 26 Jun 2019 10:38

Tgt Ion:	164	Resp:	56544
Ion	Ratio	Lower	Upper
164	100		
129	94.2	69.7	129.5
131	91.0	64.6	120.0
166	126.3	86.4	160.4



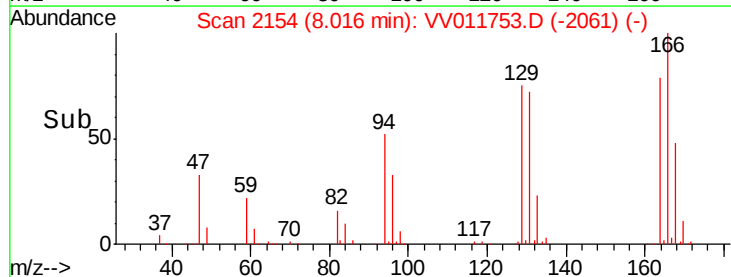
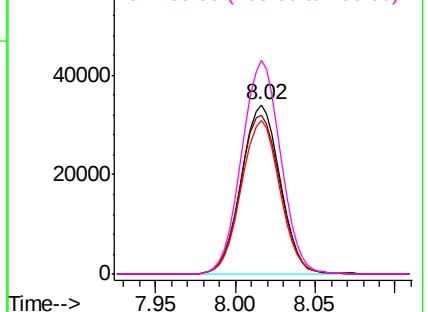
Abundance

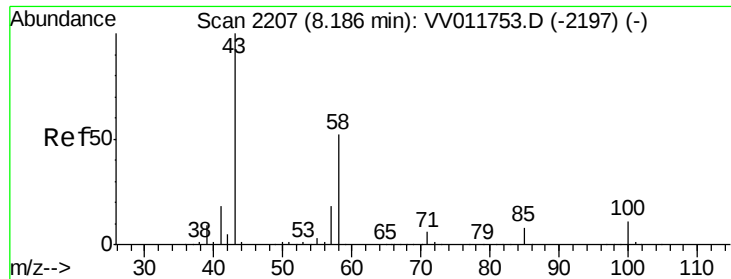
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

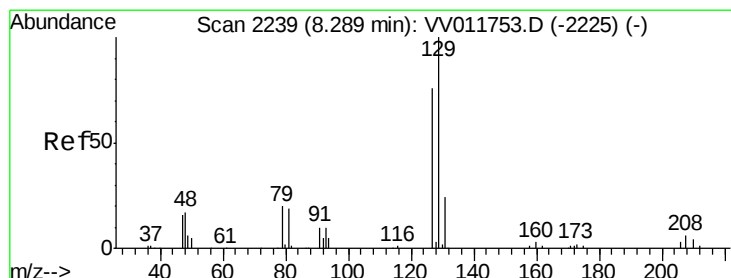
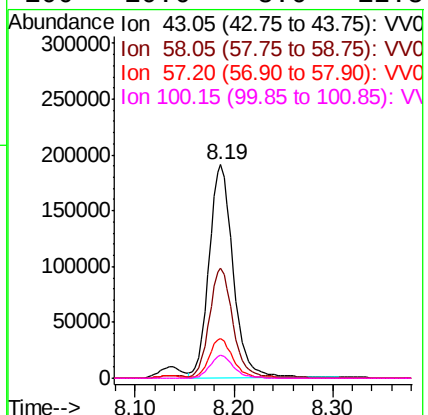
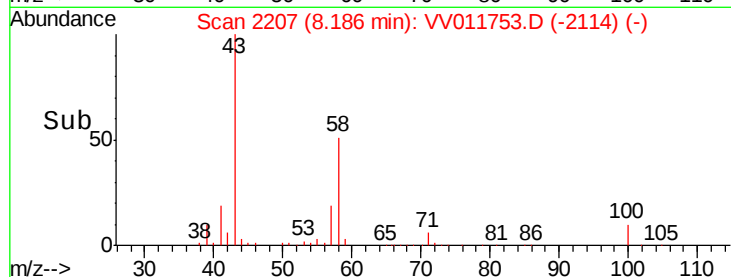
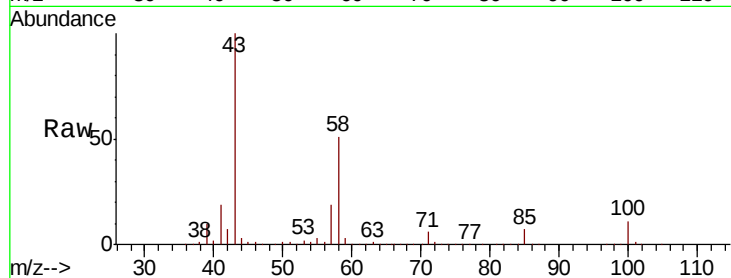




#48
2-Hexanone
Concen: 48.514 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. -0.00 min
Lab File: VV011753.D
Acq: 26 Jun 2019 10:38

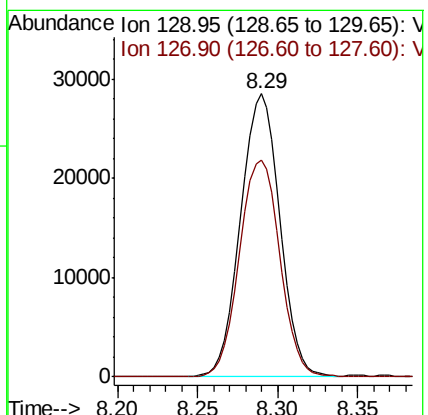
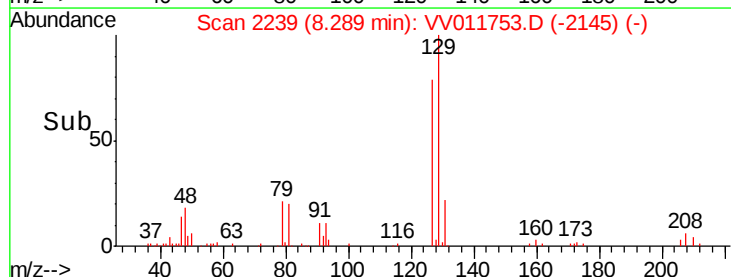
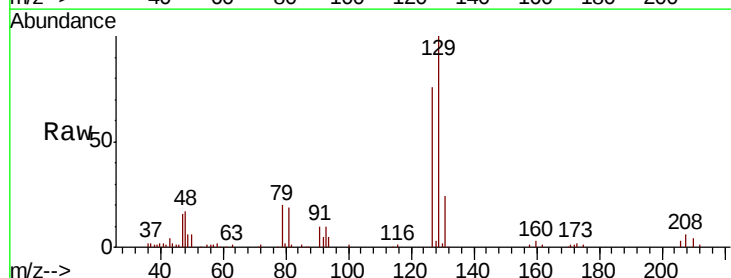
Instrument :
MSVOA_V
ClientSampleId :
VSTD00551

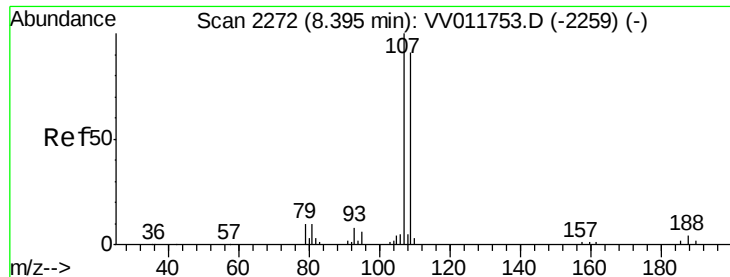
Tgt Ion: 43 Resp: 325242
Ion Ratio Lower Upper
43 100
58 50.6 40.1 60.1
57 17.8 14.4 21.6
100 10.6 8.6 12.8



#49
Dibromochloromethane
Concen: 4.923 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV011753.D
Acq: 26 Jun 2019 10:38

Tgt Ion: 129 Resp: 47738
Ion Ratio Lower Upper
129 100
127 76.5 53.5 99.5

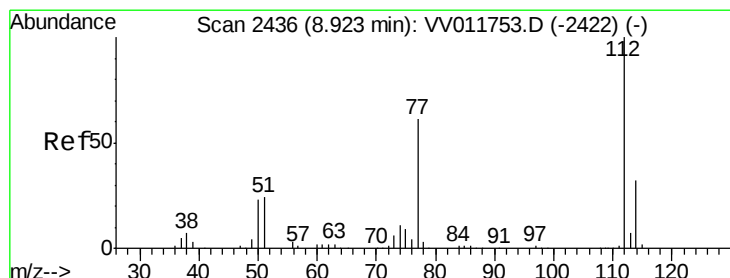
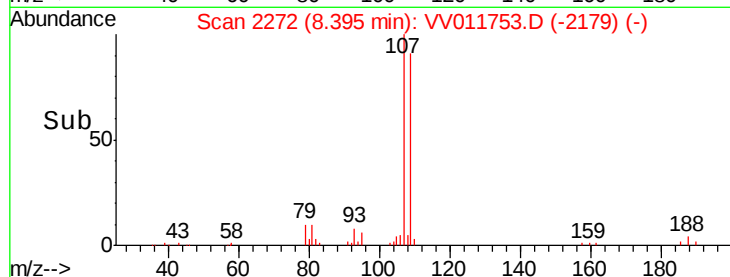
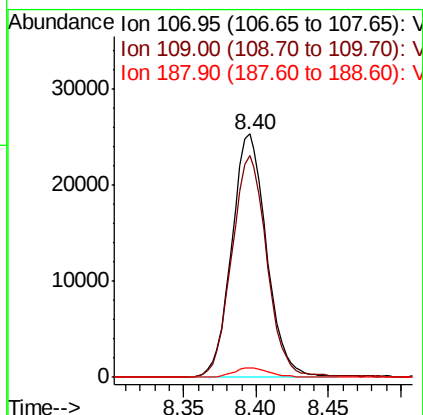
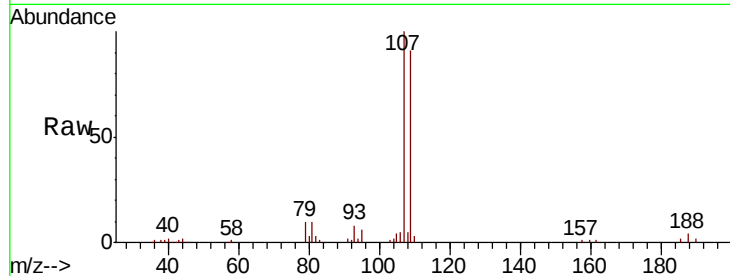




#50
 1,2-Dibromoethane
 Concen: 4.813 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. -0.00 min
 Lab File: VV011753.D
 Acq: 26 Jun 2019 10:38

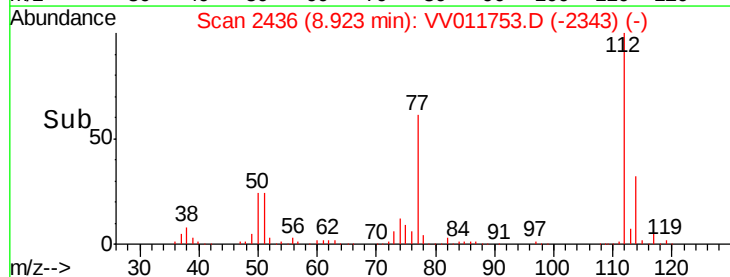
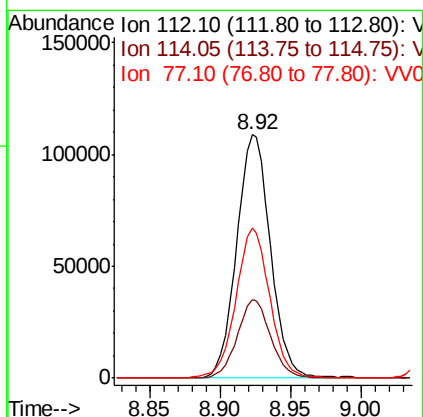
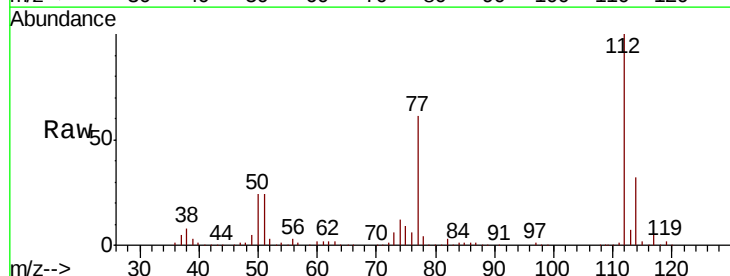
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00551

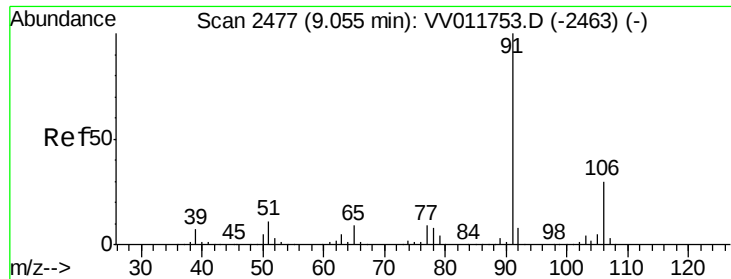
Tgt Ion:107 Resp: 42401
 Ion Ratio Lower Upper
 107 100
 109 91.3 66.7 123.9
 188 4.1 2.6 3.8#



#51
 Chlorobenzene
 Concen: 4.712 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. -0.00 min
 Lab File: VV011753.D
 Acq: 26 Jun 2019 10:38

Tgt Ion:112 Resp: 182787
 Ion Ratio Lower Upper
 112 100
 114 32.3 23.0 42.8
 77 61.5 50.0 75.0

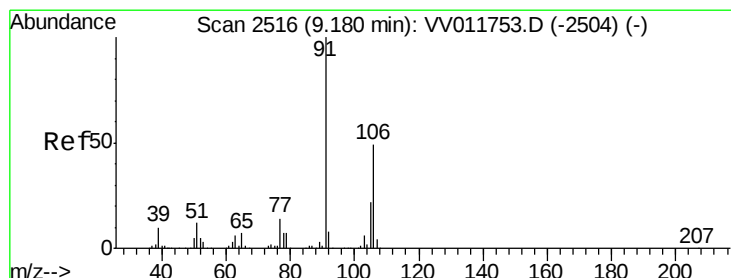
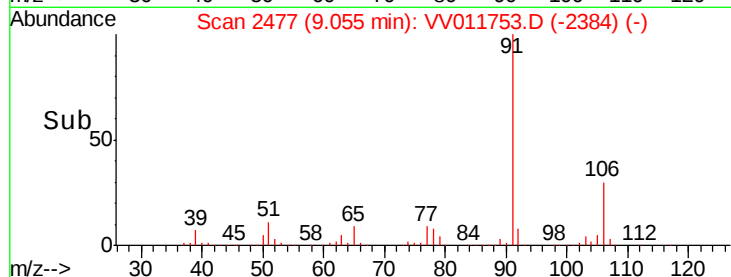
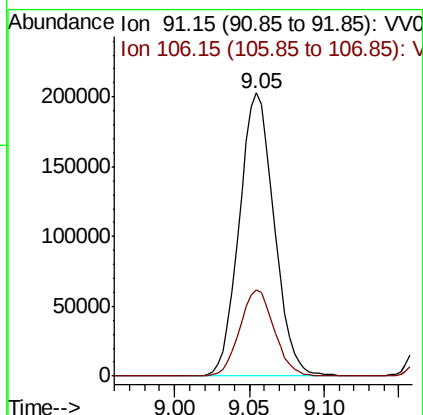
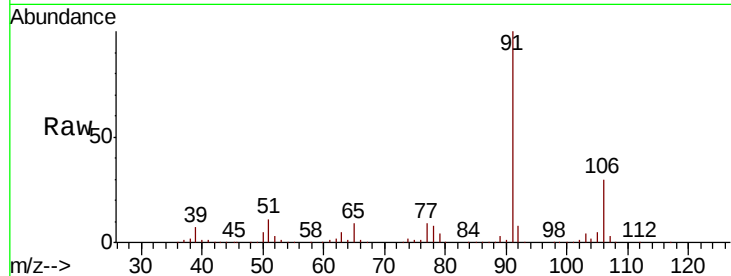




#52
Ethylbenzene
Concen: 4.776 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. -0.00 min
Lab File: VV011753.D
Acq: 26 Jun 2019 10:38

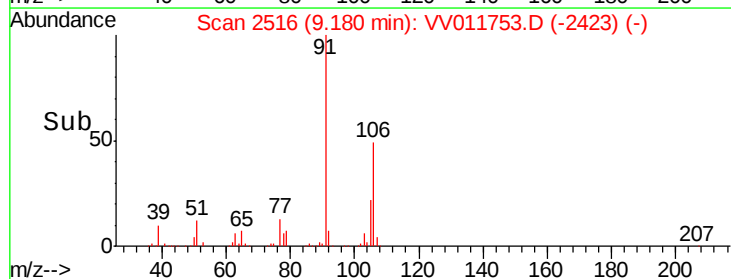
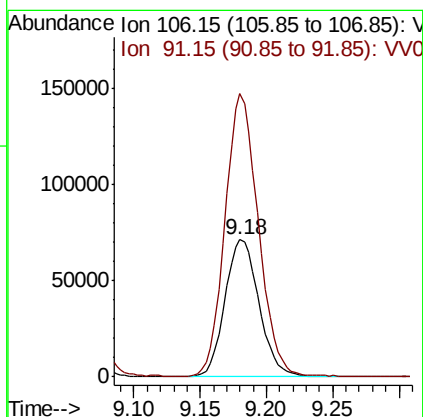
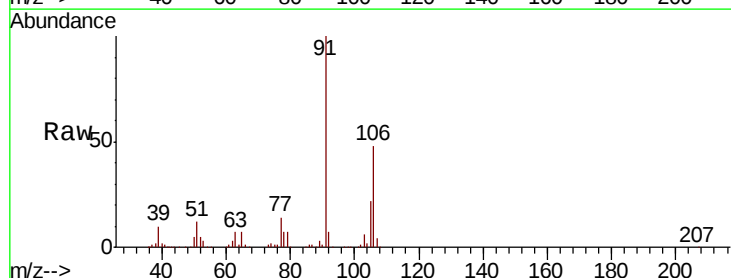
Instrument :
MSVOA_V
ClientSampleId :
VSTD00551

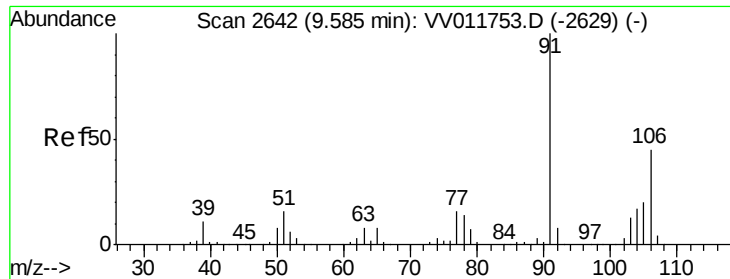
Tgt Ion: 91 Resp: 329755
Ion Ratio Lower Upper
91 100
106 30.5 20.7 38.5



#53
m,p-xylene
Concen: 5.010 ug/L
RT: 9.18 min Scan# 2516
Delta R.T. -0.00 min
Lab File: VV011753.D
Acq: 26 Jun 2019 10:38

Tgt Ion: 106 Resp: 127049
Ion Ratio Lower Upper
106 100
91 206.2 144.9 269.1





#54

o-xylene

Concen: 4.864 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV011753.D

Acq: 26 Jun 2019 10:38

Instrument :

MSVOA_V

ClientSampleId :

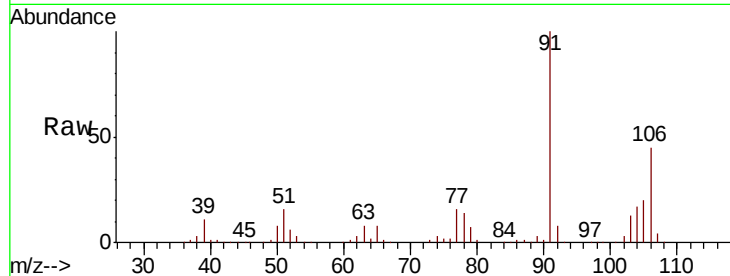
VSTD00551

Tgt Ion:106 Resp: 120588

Ion Ratio Lower Upper

106 100

91 222.7 155.2 288.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0

150000

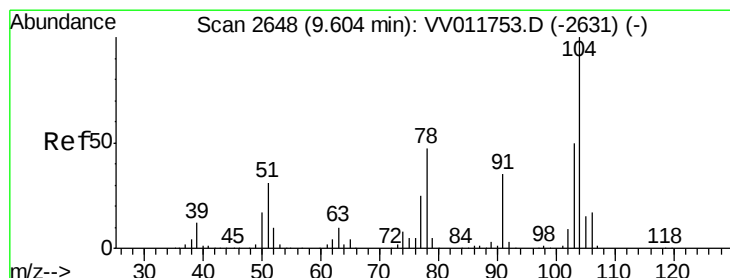
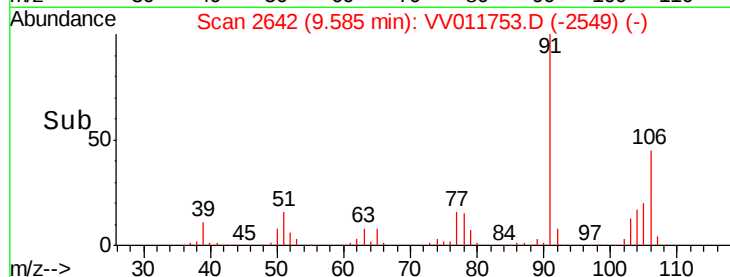
100000

50000

0

9.59

Time-->



#55

Styrene

Concen: 5.070 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VV011753.D

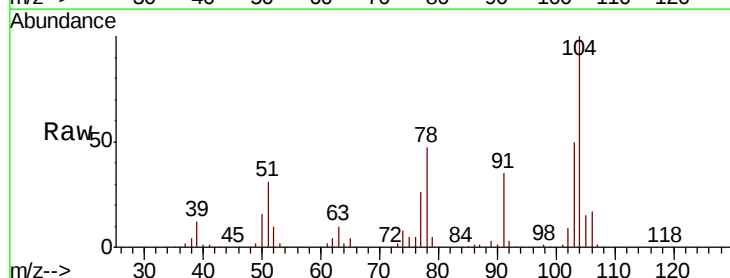
Acq: 26 Jun 2019 10:38

Tgt Ion:104 Resp: 200290

Ion Ratio Lower Upper

104 100

78 46.9 34.1 63.3



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0

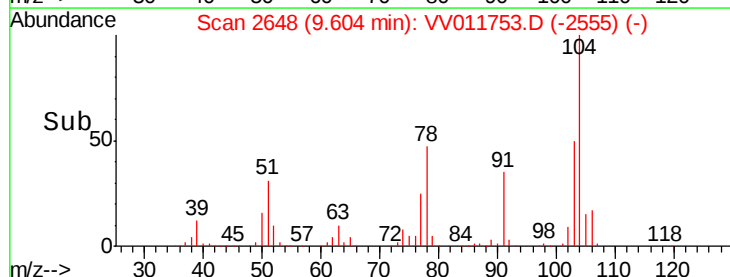
100000

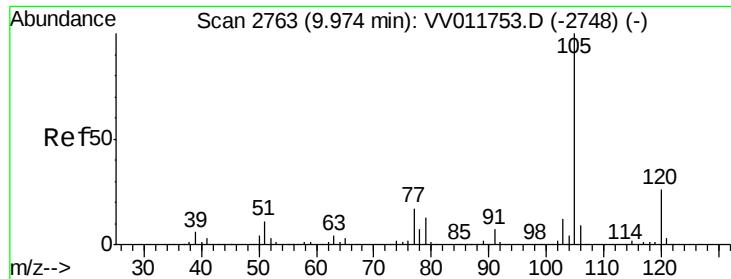
50000

0

9.60

Time-->





#56

Isopropylbenzene

Concen: 4.771 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV011753.D

Acq: 26 Jun 2019 10:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD00551

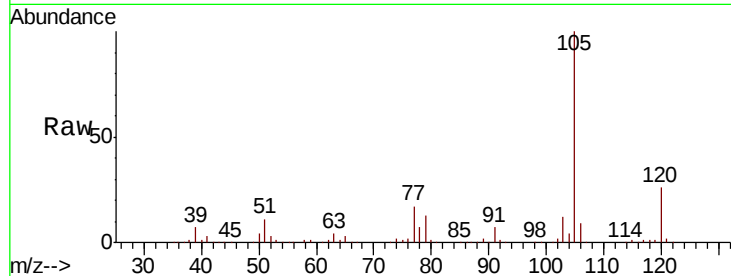
Tgt Ion: 105 Resp: 316900

Ion Ratio Lower Upper

105 100

120 26.1 20.6 30.8

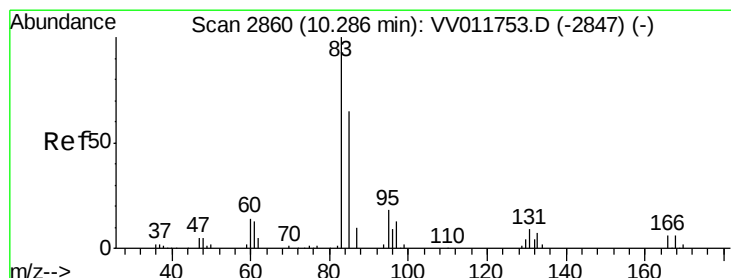
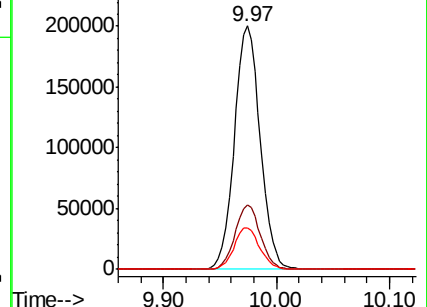
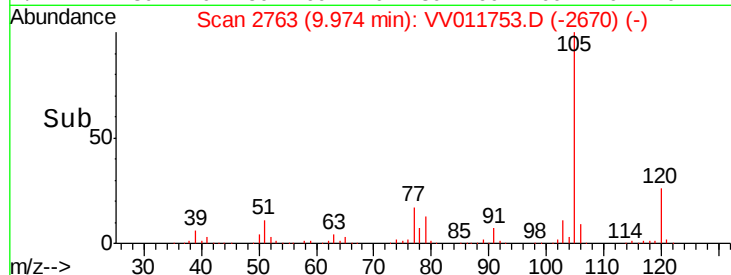
77 17.2 13.8 20.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.800 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV011753.D

Acq: 26 Jun 2019 10:38

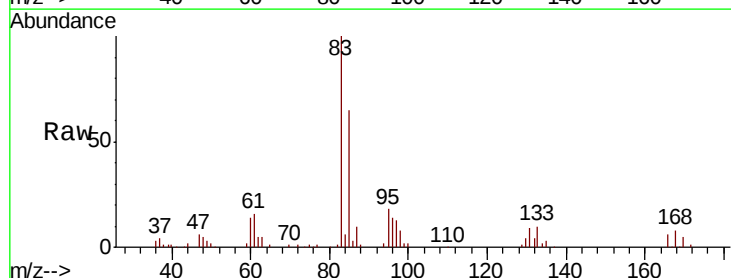
Tgt Ion: 83 Resp: 55065

Ion Ratio Lower Upper

83 100

85 65.5 45.9 85.3

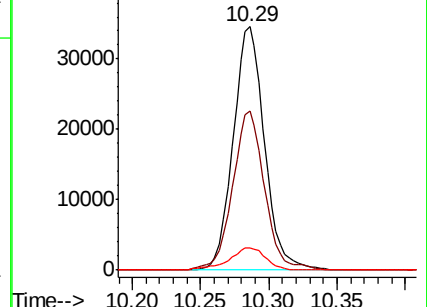
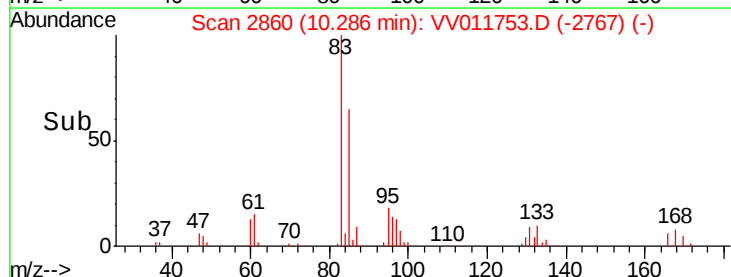
131 9.1 7.8 11.6

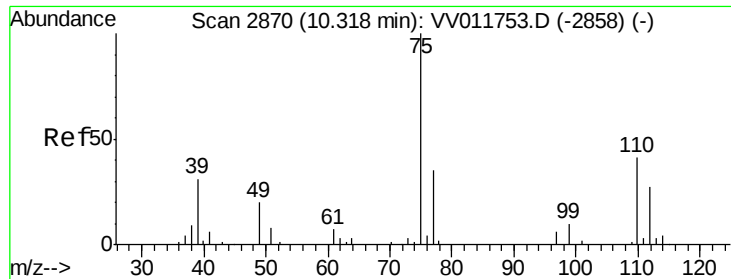


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

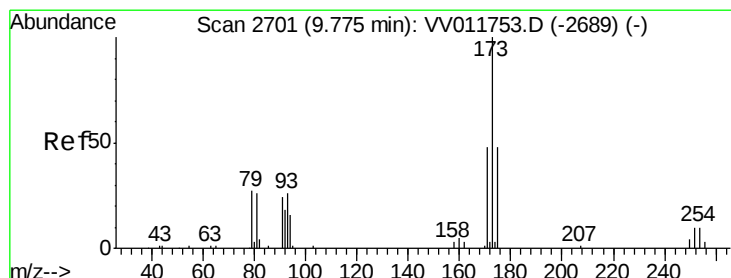
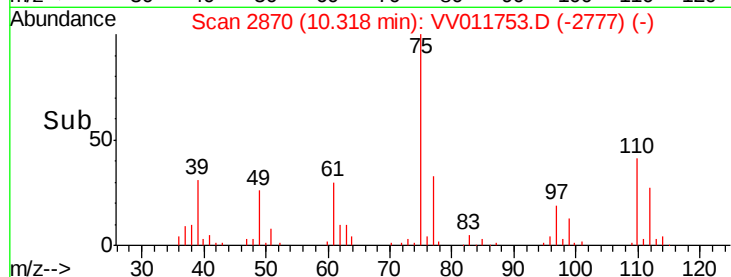
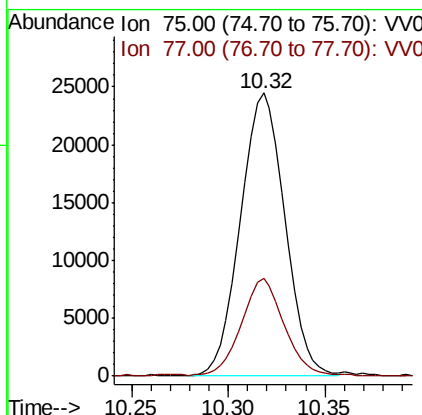
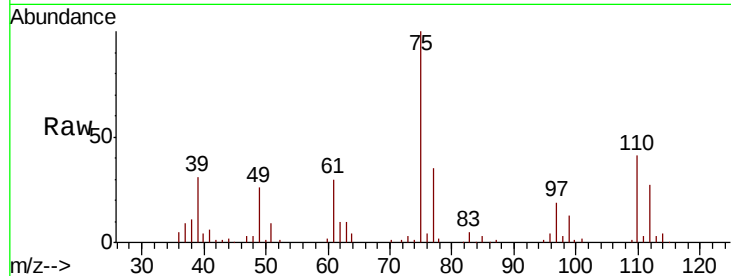




#59
 1,2,3-Trichloropropane
 Concen: 4.435 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. -0.00 min
 Lab File: VV011753.D
 Acq: 26 Jun 2019 10:38

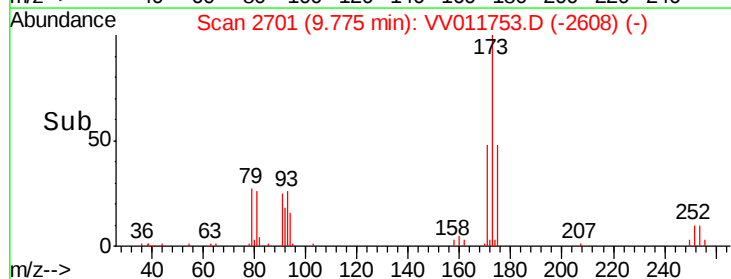
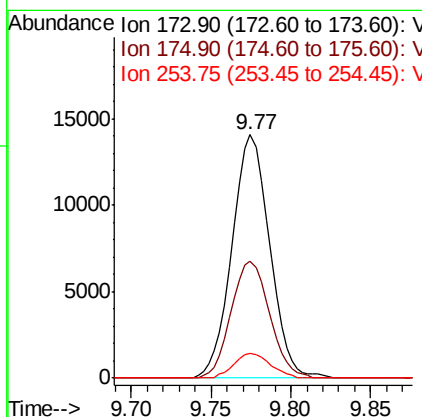
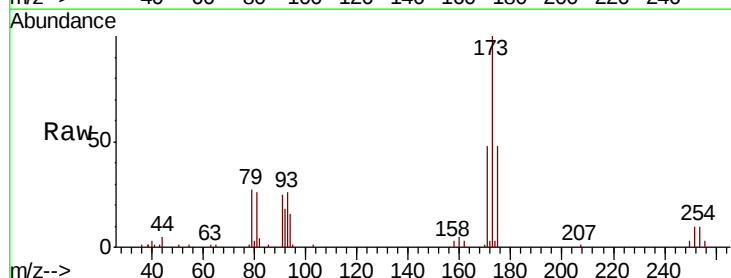
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD00551

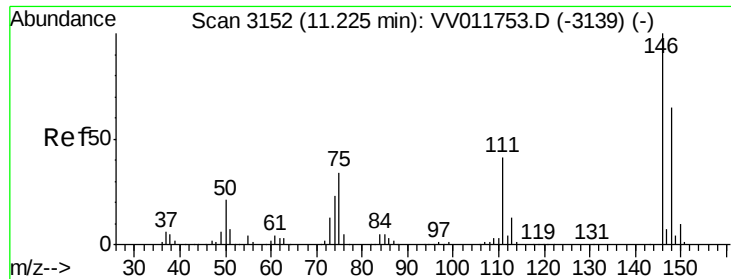
Tgt Ion: 75 Resp: 39172
 Ion Ratio Lower Upper
 75 100
 77 33.5 25.2 37.8



#61
 Bromoform
 Concen: 4.737 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. -0.00 min
 Lab File: VV011753.D
 Acq: 26 Jun 2019 10:38

Tgt Ion: 173 Resp: 22600
 Ion Ratio Lower Upper
 173 100
 175 48.8 38.3 57.5
 254 9.7 7.4 11.0





#62

1,3-Dichlorobenzene

Concen: 4.677 ug/L

RT: 11.22 min Scan# 3152

Delta R.T. -0.00 min

Lab File: VV011753.D

Acq: 26 Jun 2019 10:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD00551

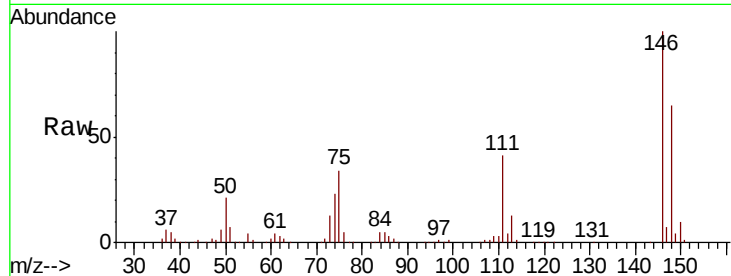
Tgt Ion:146 Resp: 134018

Ion Ratio Lower Upper

146 100

111 40.9 28.4 52.8

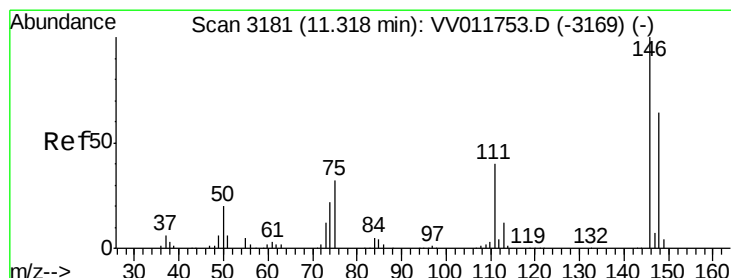
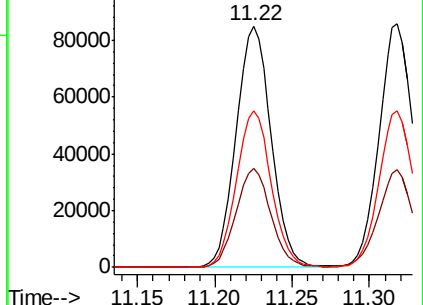
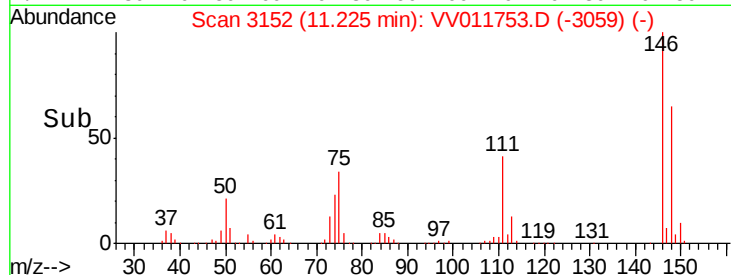
148 64.8 42.8 79.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.540 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. -0.00 min

Lab File: VV011753.D

Acq: 26 Jun 2019 10:38

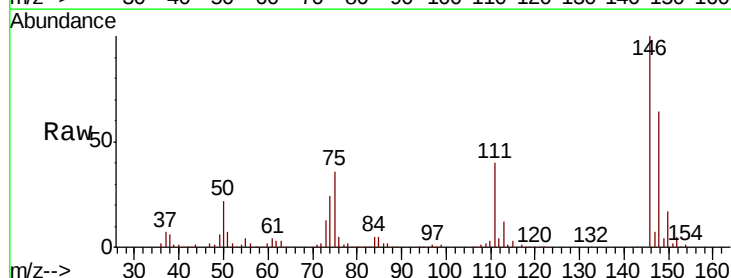
Tgt Ion:146 Resp: 134391

Ion Ratio Lower Upper

146 100

111 40.0 27.7 51.5

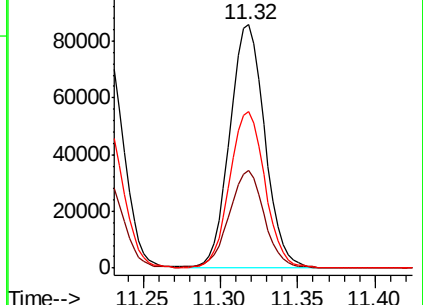
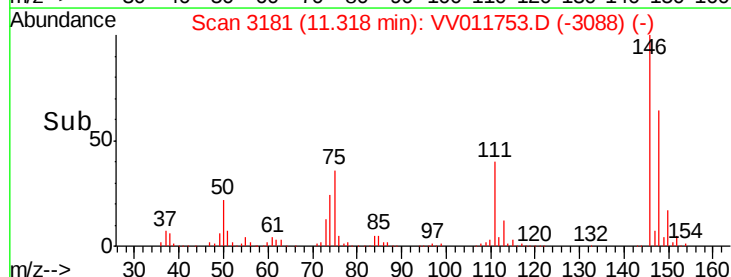
148 64.3 45.1 83.9

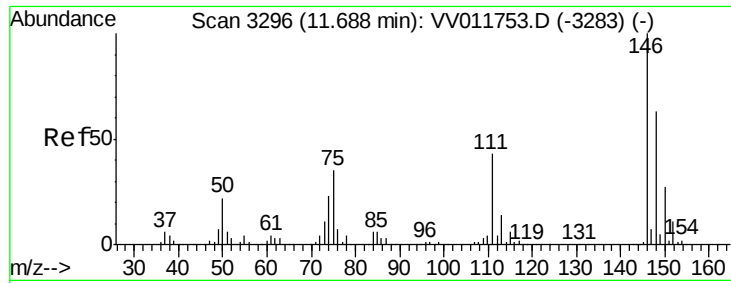


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.724 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. -0.00 min

Lab File: VV011753.D

Acq: 26 Jun 2019 10:38

Instrument :

MSVOA_V

ClientSampled :

VSTD00551

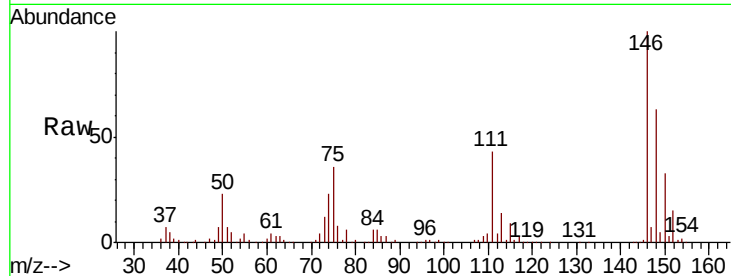
Tgt Ion:146 Resp: 128914

Ion Ratio Lower Upper

146 100

111 42.8 34.5 51.7

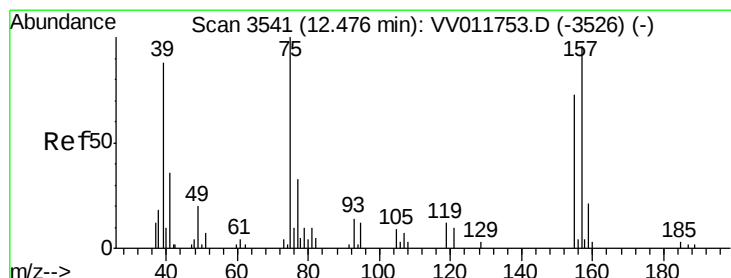
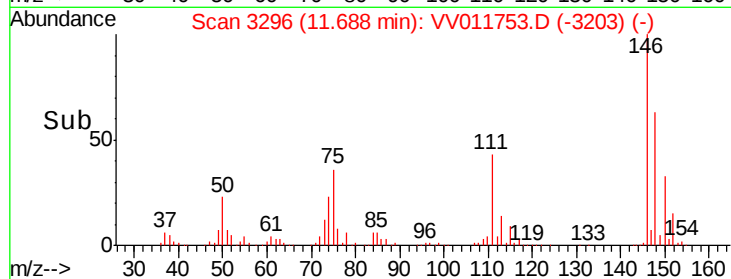
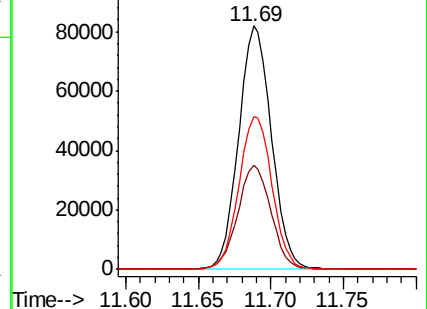
148 62.8 49.8 74.8



Abundance Ion 145.95 (145.65 to 146.65): 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: 5.105 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV011753.D

Acq: 26 Jun 2019 10:38

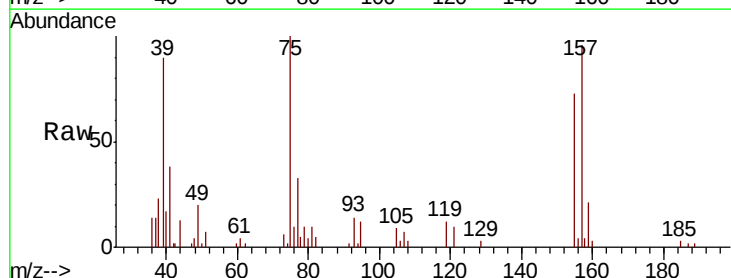
Tgt Ion: 75 Resp: 7980

Ion Ratio Lower Upper

75 100

155 72.6 59.4 89.0

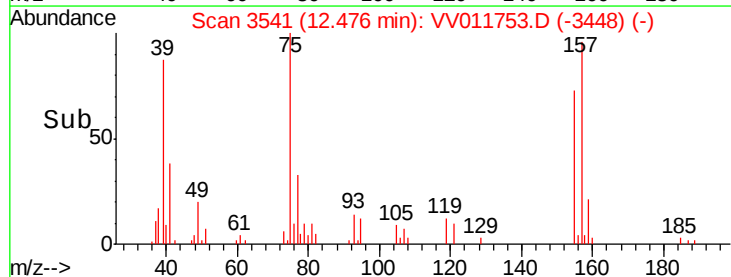
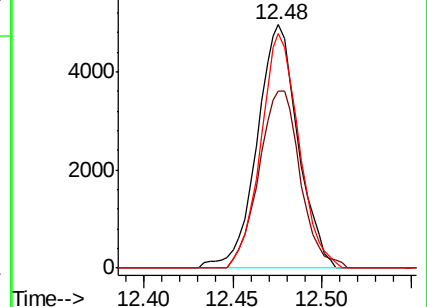
157 96.1 77.5 116.3

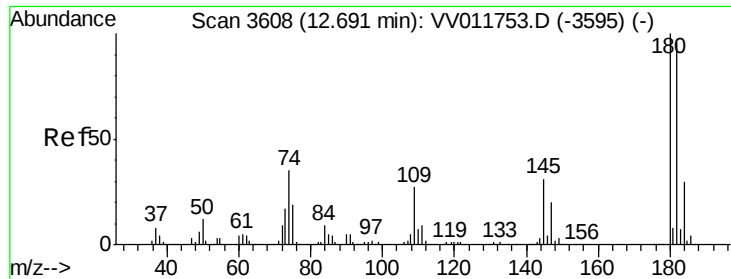


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

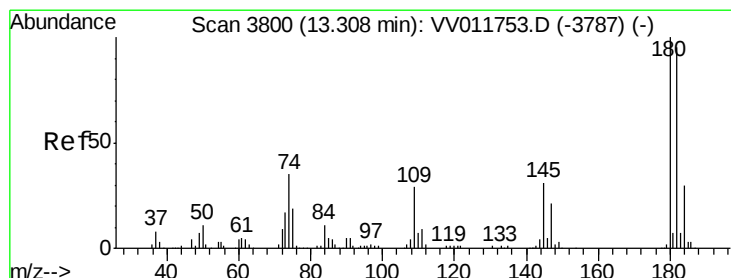
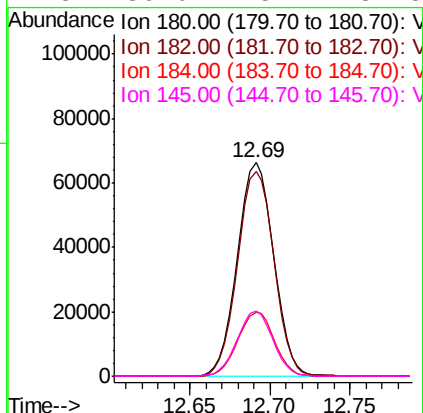
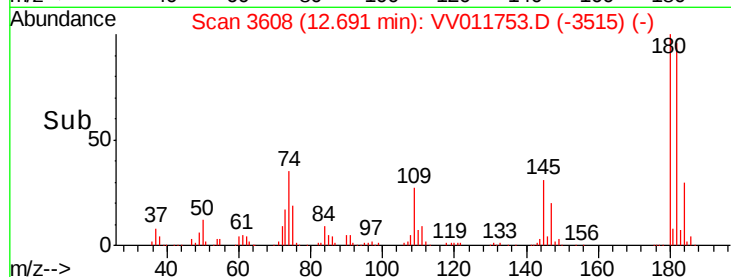
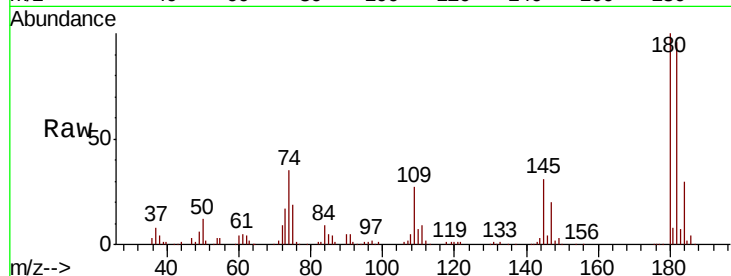




#67
 1,3,5-Trichlorobenzene
 Concen: 4.814 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV011753.D
 Acq: 26 Jun 2019 10:38

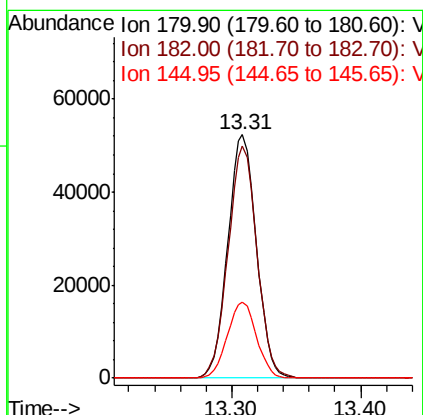
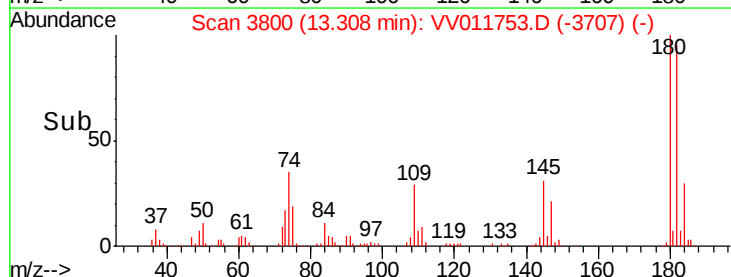
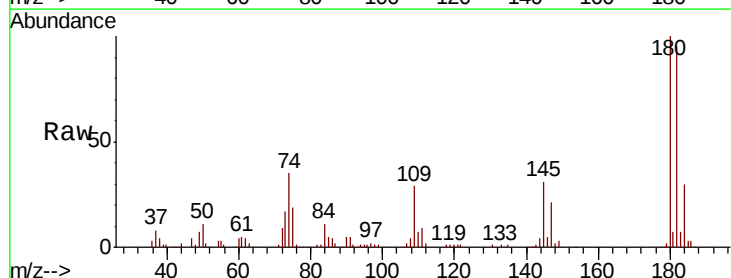
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00551

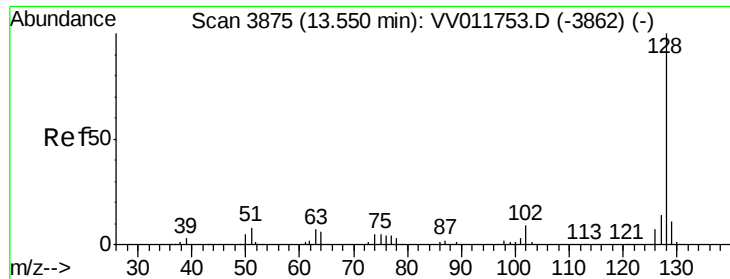
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.9	77.3	115.9
184	30.1	24.9	37.3
145	30.0	25.2	37.8



#68
 1,2,4-trichlorobenzene
 Concen: 4.881 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV011753.D
 Acq: 26 Jun 2019 10:38

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.6	114.8
145	31.9	25.3	37.9





#69

Naphthalene

Concen: 4.955 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV011753.D

Acq: 26 Jun 2019 10:38

Instrument :

MSVOA_V

ClientSampled :

VSTD00551

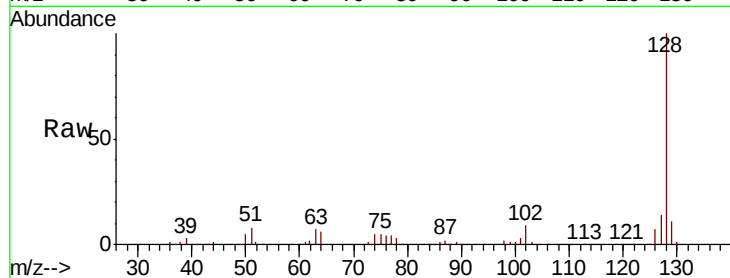
Tgt Ion:128 Resp: 133769

Ion Ratio Lower Upper

128 100

129 11.1 8.7 13.1

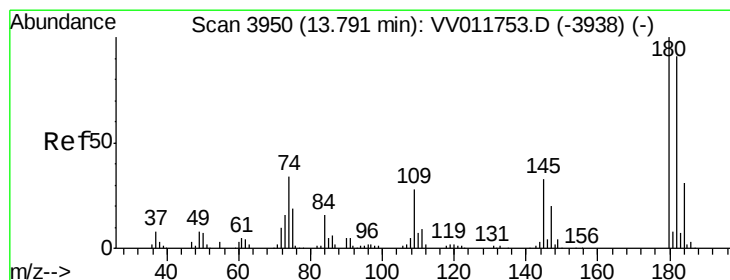
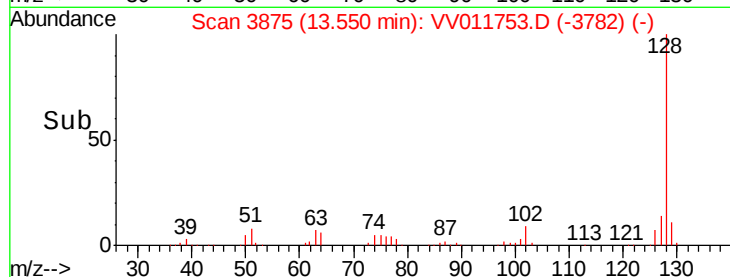
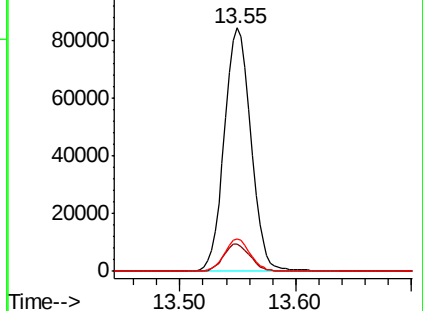
127 13.1 10.5 15.7



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: 4.925 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VV011753.D

Acq: 26 Jun 2019 10:38

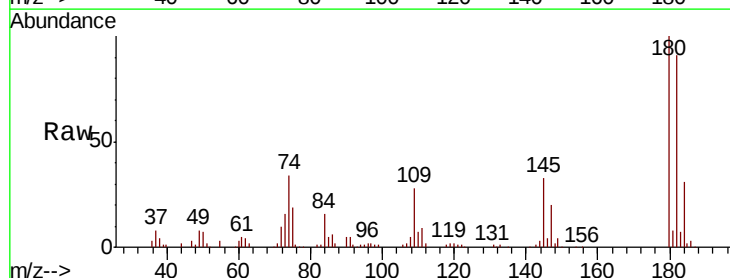
Tgt Ion:180 Resp: 75600

Ion Ratio Lower Upper

180 100

182 93.6 75.0 112.4

145 33.4 26.2 39.2



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

