

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031620\
 Data File : VV014963.D
 Acq On : 16 Mar 2020 22:09
 Operator : SY/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05093

Quant Time: Mar 18 03:22:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM031620WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Mar 18 03:17:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	376039	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	370208	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	197969	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	118083	47.14	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.28%
7) Chloroethane-d5	1.58	69	92930	49.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	99.88%
11) 1,1-Dichloroethene-d2	2.12	63	183637	47.78	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.56%
21) 2-Butanone-d5	3.93	46	149571	97.92	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.92%
24) Chloroform-d	4.38	84	256550	49.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.30%
26) 1,2-Dichloroethane-d4	5.06	65	159767	48.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.62%
32) Benzene-d6	5.08	84	510303	50.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.08%
36) 1,2-Dichloropropane-d6	6.10	67	150413	49.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.06%
41) Toluene-d8	7.34	98	513013	50.86	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.72%
43) trans-1,3-Dichloropropene-	7.64	79	76772	47.55	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.10%
47) 2-Hexanone-d5	8.12	63	138439	100.99	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.99%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	219411	49.35	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.70%
64) 1,2-Dichlorobenzene-d4	11.65	152	219890	50.70	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	159363	45.339	ug/L 100
3) Chloromethane	1.25	50	114563	45.286	ug/L 99
5) Vinyl chloride	1.32	62	112740	45.989	ug/L 100
6) Bromomethane	1.53	94	48601	30.925	ug/L 92
8) Chloroethane	1.60	64	68232	51.150	ug/L 99
9) Trichlorofluoromethane	1.77	101	179315	46.227	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	87362	45.097	ug/L 99
12) 1,1-Dichloroethene	2.13	96	84769	47.969	ug/L 93
13) Acetone	2.21	43	65697	43.528	ug/L 92
14) Carbon disulfide	2.31	76	278031	47.952	ug/L 100
15) Methyl Acetate	2.46	43	91326	46.846	ug/L 100
16) Methylene chloride	2.52	84	129938	48.599	ug/L 97
17) trans-1,2-Dichloroethene	2.78	96	117243	47.269	ug/L 99
18) Methyl tert-butyl Ether	2.79	73	383573	48.388	ug/L 99
19) 1,1-Dichloroethane	3.21	63	209792	47.048	ug/L 100
20) cis-1,2-Dichloroethene	3.94	96	134575	47.623	ug/L 98
22) 2-Butanone	4.01	43	134885	88.962	ug/L 95

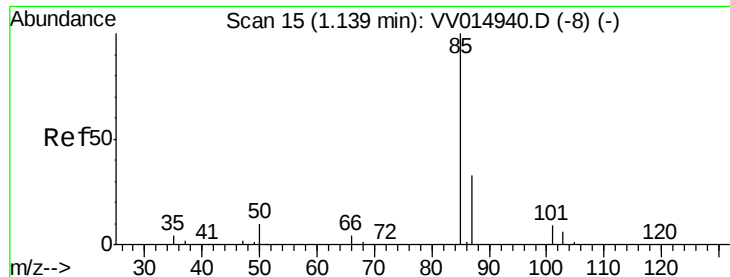
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031620\
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 Quant Title : VOC Analysis
 QLast Update : Wed Mar 18 03:17:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.28	128	71251	47.609	ug/L	96
25) Chloroform	4.41	83	232369	47.198	ug/L	98
27) 1,2-Dichloroethane	5.16	62	176358	47.533	ug/L	100
29) Cyclohexane	4.70	56	181863	47.562	ug/L	99
30) 1,1,1-Trichloroethane	4.64	97	211810	48.104	ug/L	98
31) Carbon tetrachloride	4.86	117	188797	48.095	ug/L	100
33) Benzene	5.13	78	492498	48.889	ug/L	100
34) Trichloroethene	5.94	95	126626	46.841	ug/L	97
35) Methylcyclohexane	6.16	83	201884	46.294	ug/L	99
37) 1,2-Dichloropropane	6.20	63	118043	46.764	ug/L	100
38) Bromodichloromethane	6.53	83	171623	47.962	ug/L	99
39) cis-1,3-Dichloropropene	7.05	75	197701	47.643	ug/L	97
40) 4-Methyl-2-pentanone	7.26	43	339215	99.897	ug/L	99
42) Toluene	7.41	91	554818	48.946	ug/L	98
44) trans-1,3-Dichloropropene	7.67	75	175239	47.461	ug/L	98
45) 1,1,2-Trichloroethane	7.86	97	127936	48.671	ug/L	98
46) Tetrachloroethene	8.00	164	118779	47.031	ug/L	99
48) 2-Hexanone	8.17	43	262928	97.489	ug/L	99
49) Dibromochloromethane	8.27	129	145833	49.320	ug/L	100
50) 1,2-Dibromoethane	8.37	107	139439	48.357	ug/L	99
51) Chlorobenzene	8.90	112	398744	51.082	ug/L	98
52) Ethylbenzene	9.03	91	629161	48.699	ug/L	98
53) m,p-Xylene	9.16	106	246621	49.189	ug/L	98
54) o-xylene	9.56	106	242047	48.696	ug/L	99
55) Styrene	9.58	104	413117	49.785	ug/L	98
56) Isopropylbenzene	9.95	105	645868	49.278	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.26	83	209368	48.146	ug/L	97
59) 1,2,3-Trichloropropane	10.30	75	167109	48.278	ug/L	99
61) Bromoform	9.75	173	106266	50.031	ug/L	99
62) 1,3-Dichlorobenzene	11.20	146	317965	48.739	ug/L	98
63) 1,4-Dichlorobenzene	11.29	146	328281	49.954	ug/L	99
65) 1,2-Dichlorobenzene	11.67	146	328284	50.376	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.45	75	47321	48.303	ug/L	97
67) 1,3,5-Trichlorobenzene	12.67	180	240294	46.979	ug/L	99
68) 1,2,4-trichlorobenzene	13.28	180	226230	49.623	ug/L	99
69) Naphthalene	13.52	128	297320	50.769	ug/L	100
70) 1,2,3-Trichlorobenzene	13.77	180	225089	49.877	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 45.339 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

Instrument :

MSVOA_V

ClientSampleId :

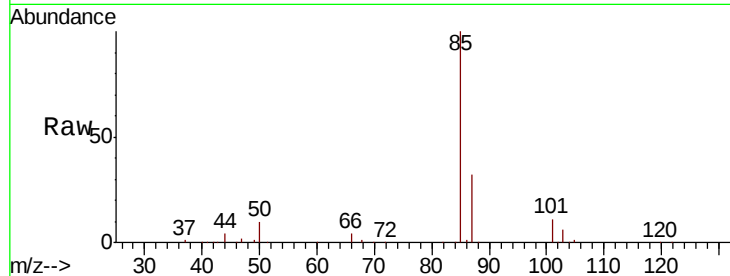
VSTD05093

Tot Ion: 85 Resp: 159363

Ion Ratio Lower Upper

85 100

87 32.5 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VV014940.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV014940.D (-8) (-)

1.14

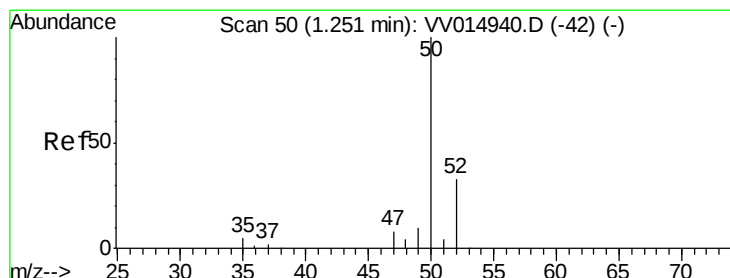
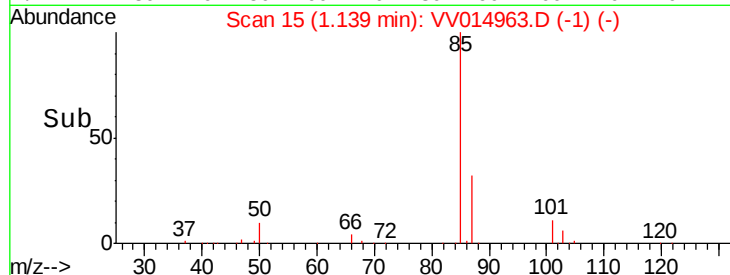
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 45.286 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV014963.D

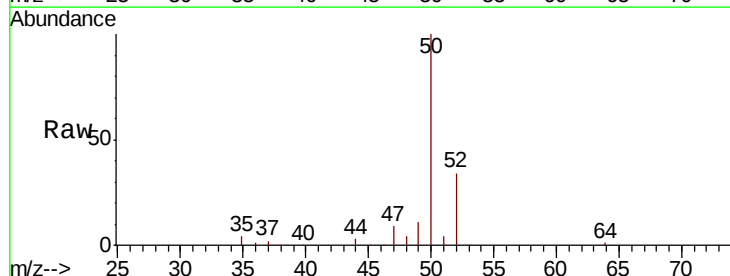
Acq: 16 Mar 2020 22:09

Tgt Ion: 50 Resp: 114563

Ion Ratio Lower Upper

50 100

52 33.7 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VV014940.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV014940.D (-42) (-)

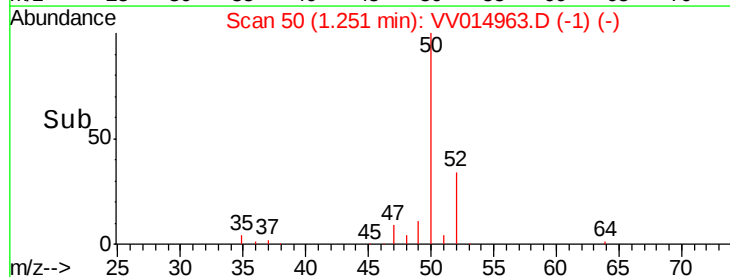
1.25

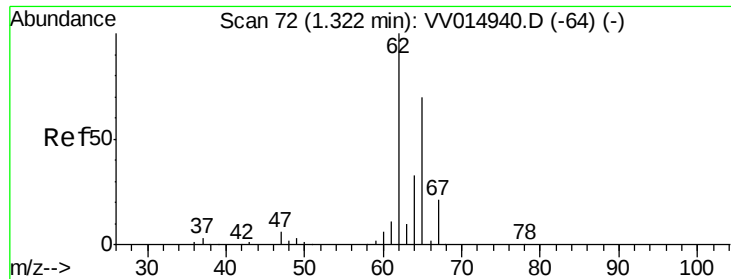
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 45.989 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

Instrument :

MSVOA_V

ClientSampleID :

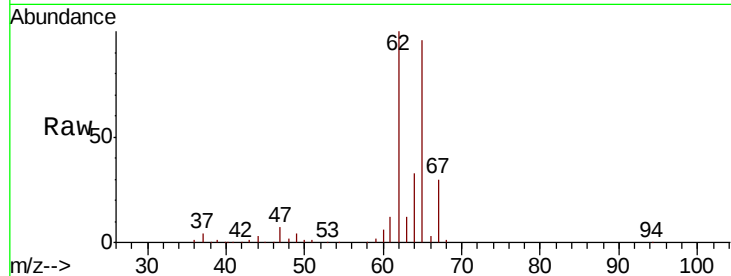
VSTD05093

Tot Ion: 62 Resp: 112740

Ion Ratio Lower Upper

62 100

64 32.7 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VV014940.D (-64) (-)

Ion 64.00 (63.70 to 64.70): VV014940.D (-64) (-)

1.32

100000

80000

60000

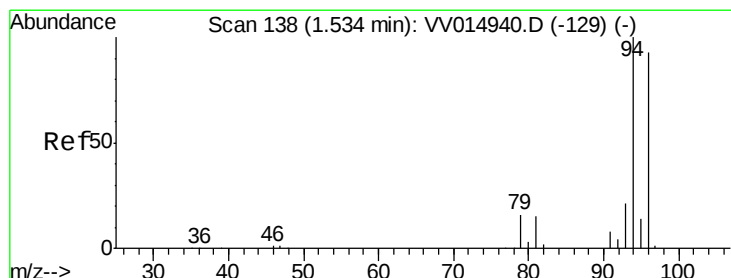
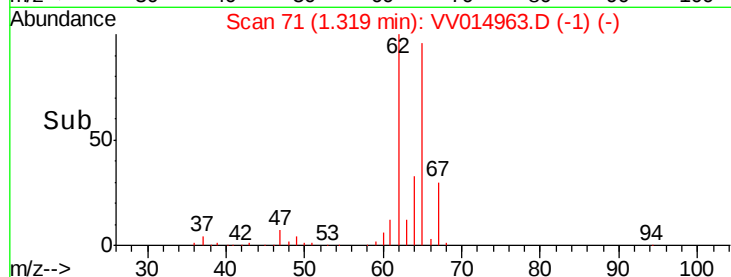
40000

20000

0

1.30 1.35 1.40

Time-->



#6

Bromomethane

Concen: 30.925 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV014963.D

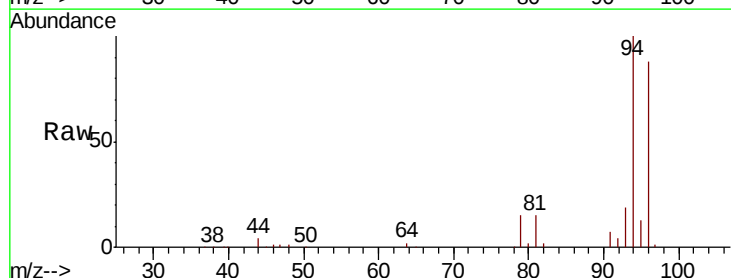
Acq: 16 Mar 2020 22:09

Tgt Ion: 94 Resp: 48601

Ion Ratio Lower Upper

94 100

96 87.7 66.8 124.0



Abundance Ion 94.00 (93.70 to 94.70): VV014940.D (-129) (-)

Ion 96.00 (95.70 to 96.70): VV014940.D (-129) (-)

1.53

50000

40000

30000

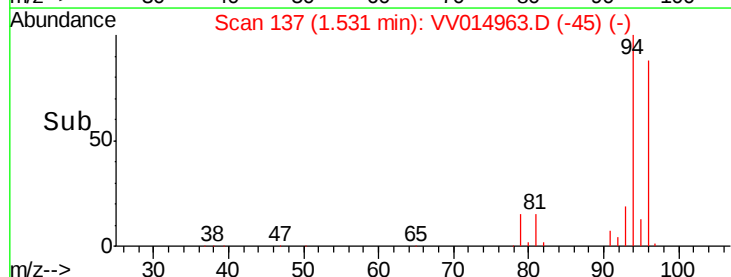
20000

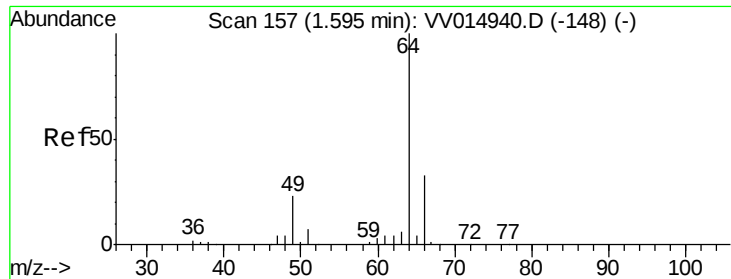
10000

0

1.50 1.55 1.60

Time-->

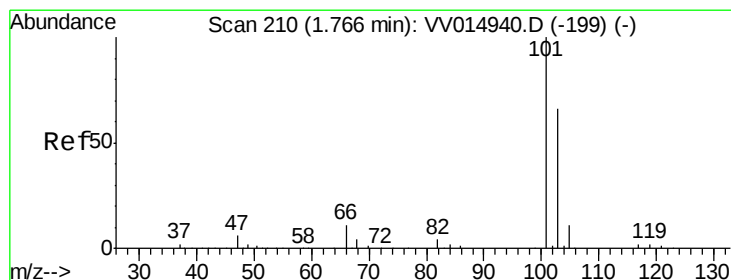
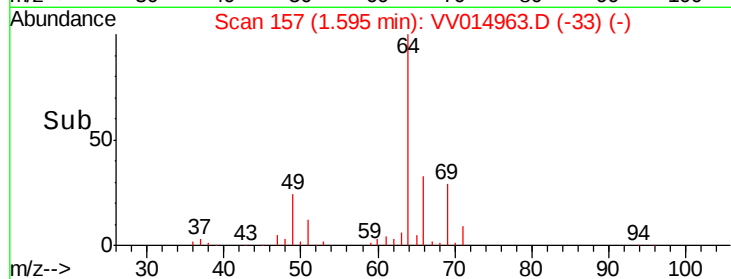
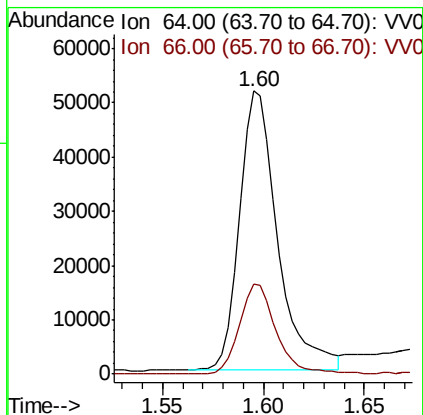
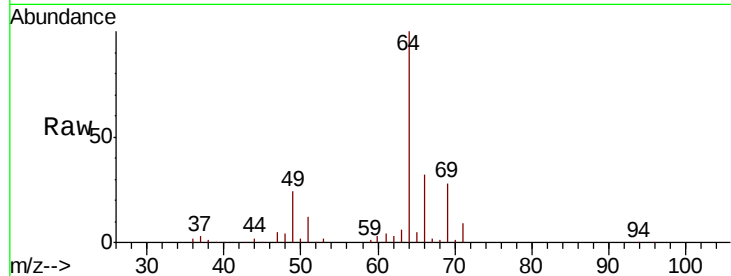




#8
Chloroethane
Concen: 51.150 ug/L
RT: 1.60 min Scan# 157
Delta R.T. 0.00 min
Lab File: VV014963.D
Acq: 16 Mar 2020 22:09

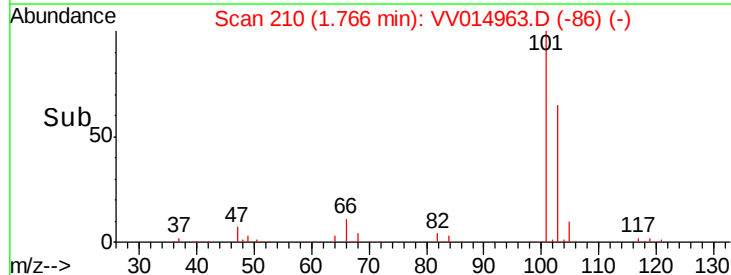
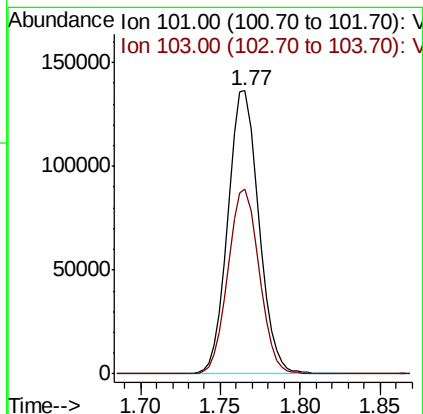
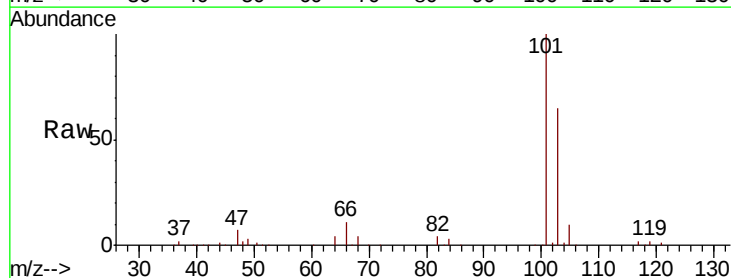
Instrument :
MSVOA_V
ClientSampleId :
VSTD05093

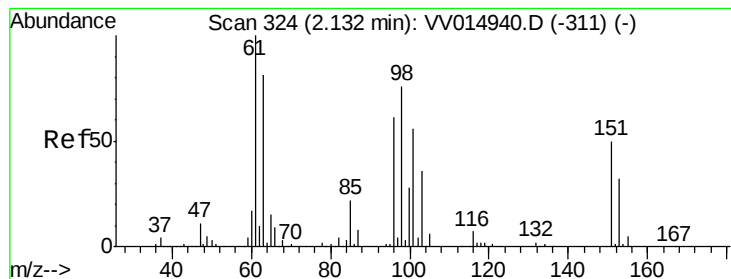
Tot Ion: 64 Resp: 68232
Ion Ratio Lower Upper
64 100
66 31.8 22.7 42.1



#9
Trichlorofluoromethane
Concen: 46.227 ug/L
RT: 1.77 min Scan# 210
Delta R.T. 0.00 min
Lab File: VV014963.D
Acq: 16 Mar 2020 22:09

Tgt Ion: 101 Resp: 179315
Ion Ratio Lower Upper
101 100
103 65.8 51.9 77.9





#10

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

Concen: 45.097 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD05093

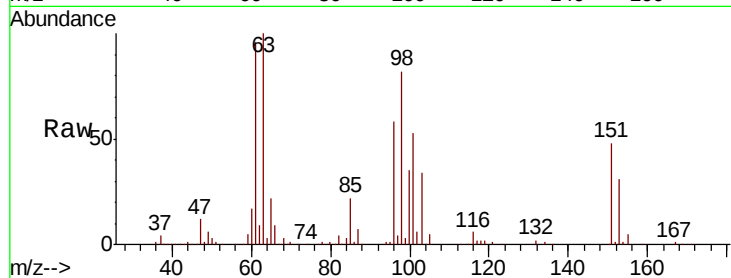
Tot Ion:101 Resp: 87362

Ion Ratio Lower Upper

101 100

85 41.6 33.9 50.9

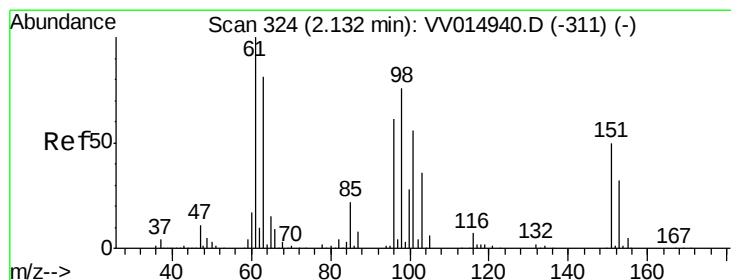
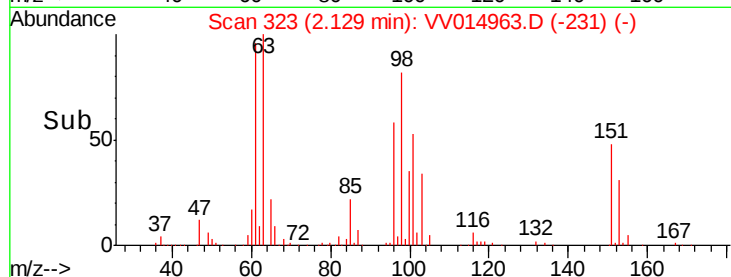
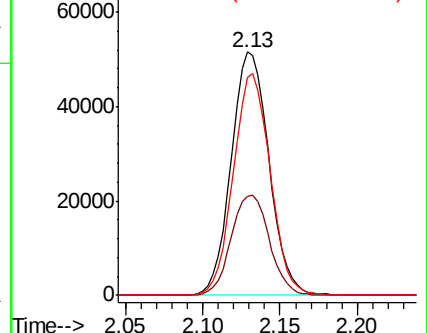
151 88.9 70.1 105.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 47.969 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

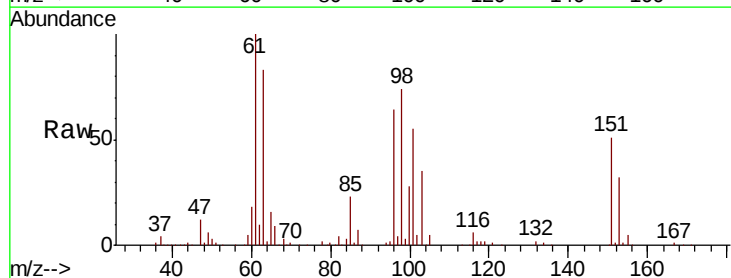
Tgt Ion: 96 Resp: 84769

Ion Ratio Lower Upper

96 100

61 157.5 115.7 214.9

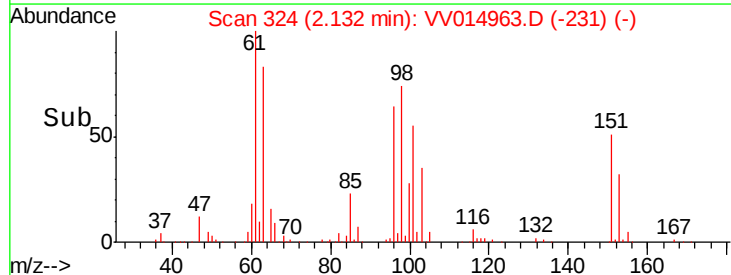
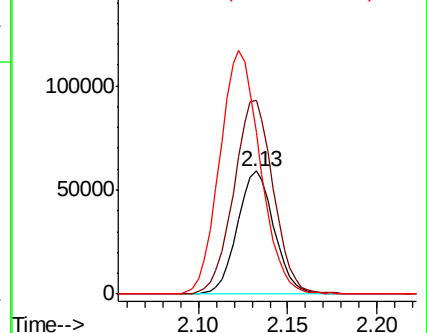
63 131.2 99.2 184.2

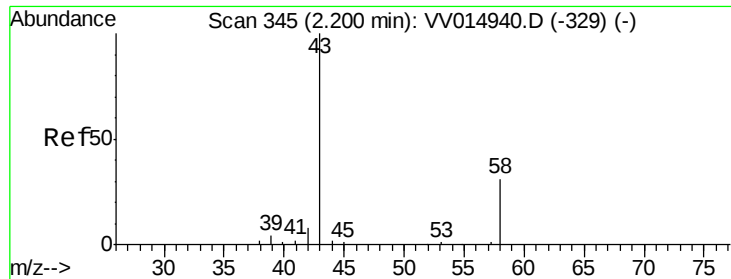


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 43.528 ug/L

RT: 2.21 min Scan# 347

Delta R.T. 0.01 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

Instrument :

MSVOA_V

ClientSampleId :

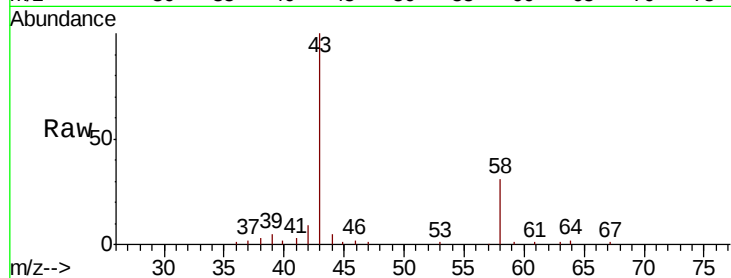
VSTD05093

Tot Ion: 43 Resp: 65697

Ion Ratio Lower Upper

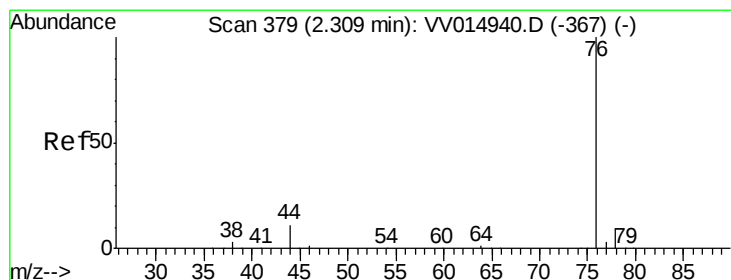
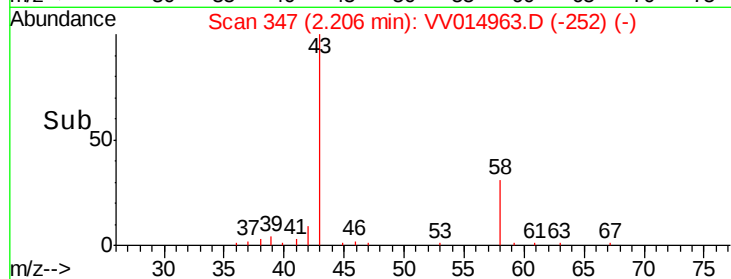
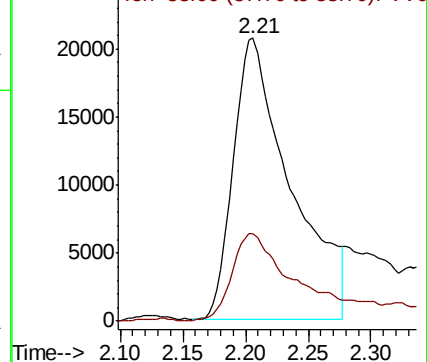
43 100

58 30.0 0.0 51.6



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#14

Carbon disulfide

Concen: 47.952 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV014963.D

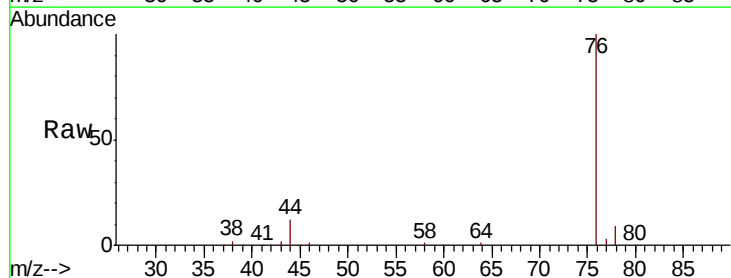
Acq: 16 Mar 2020 22:09

Tgt Ion: 76 Resp: 278031

Ion Ratio Lower Upper

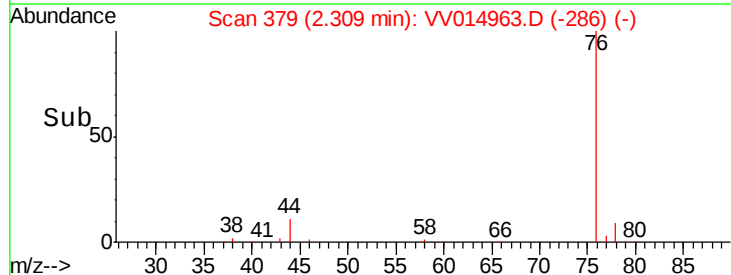
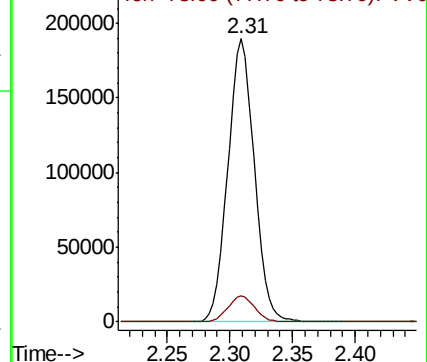
76 100

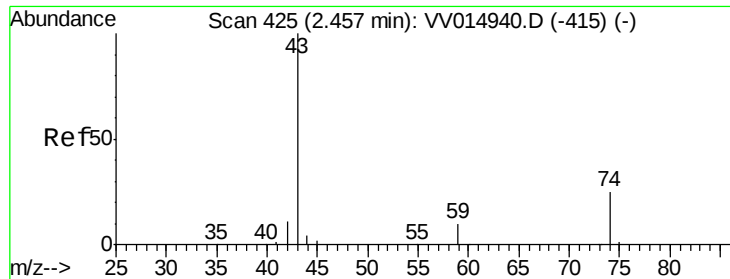
78 9.1 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

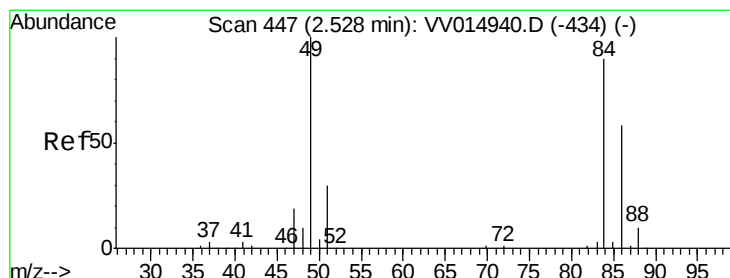
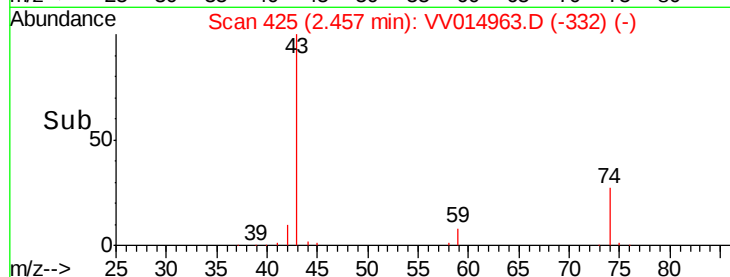
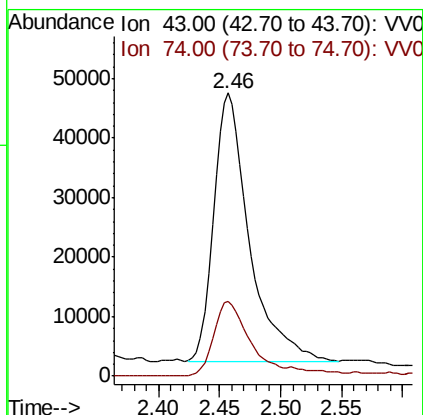
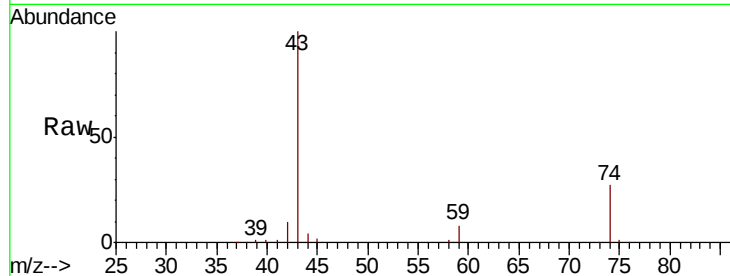




#15
Methvl Acetate
Concen: 46.846 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.00 min
Lab File: VV014963.D
Acq: 16 Mar 2020 22:09

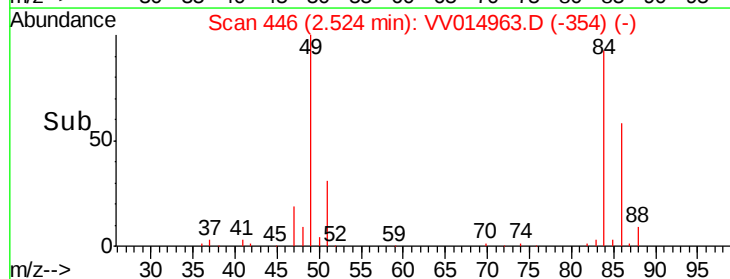
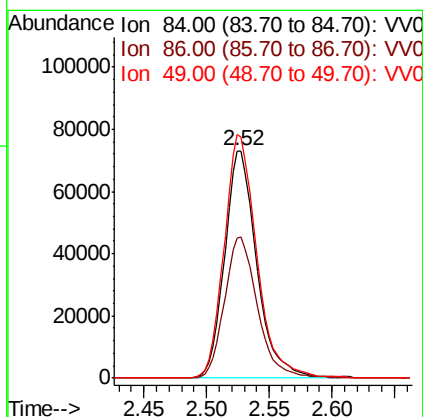
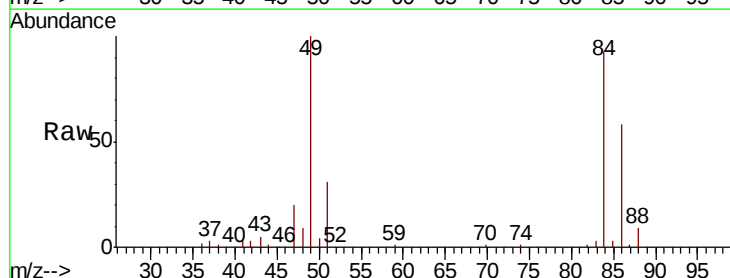
Instrument :
MSVOA_V
ClientSampled :
VSTD05093

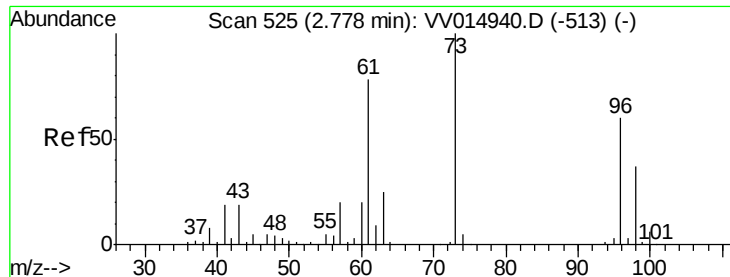
Tot Ion: 43 Resp: 91326
Ion Ratio Lower Upper
43 100
74 28.0 22.4 33.6



#16
Methylene chloride
Concen: 48.599 ug/L
RT: 2.52 min Scan# 446
Delta R.T. -0.00 min
Lab File: VV014963.D
Acq: 16 Mar 2020 22:09

Tgt Ion: 84 Resp: 129938
Ion Ratio Lower Upper
84 100
86 61.8 44.6 82.8
49 107.2 76.9 142.9

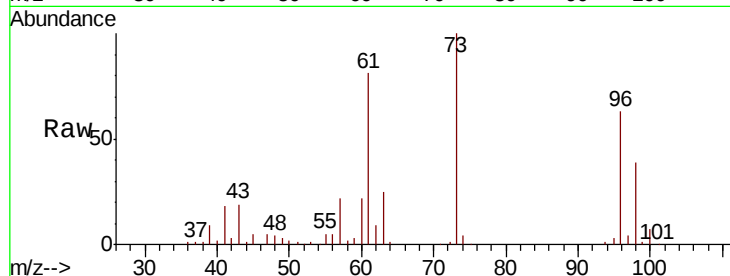




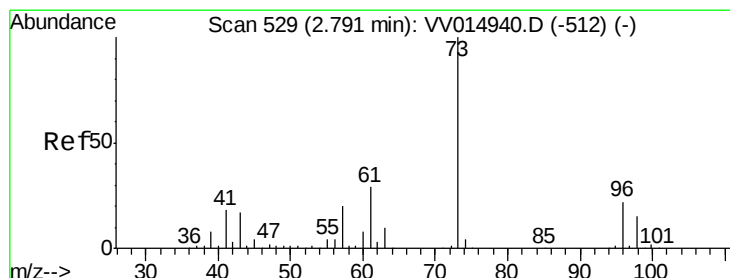
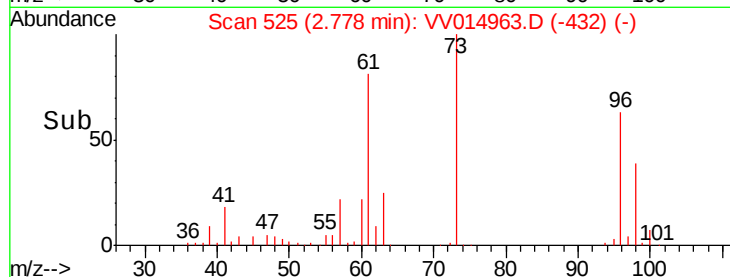
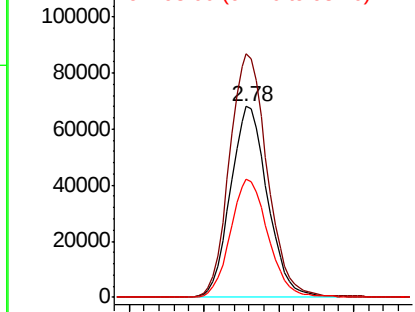
#17
trans-1,2-Dichloroethene
Concen: 47.269 ug/L
RT: 2.78 min Scan# 525
Delta R.T. 0.00 min
Lab File: VV014963.D
Acq: 16 Mar 2020 22:09

Instrument :
MSVOA_V
ClientSampleId :
VSTD05093

Tot Ion: 96 Resp: 117243
Ion Ratio Lower Upper
96 100
61 127.4 87.9 163.3
98 61.7 43.5 80.7

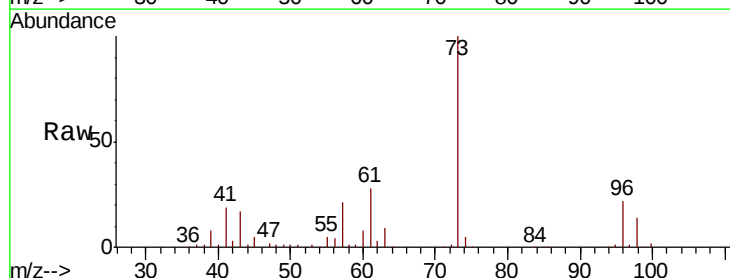


Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

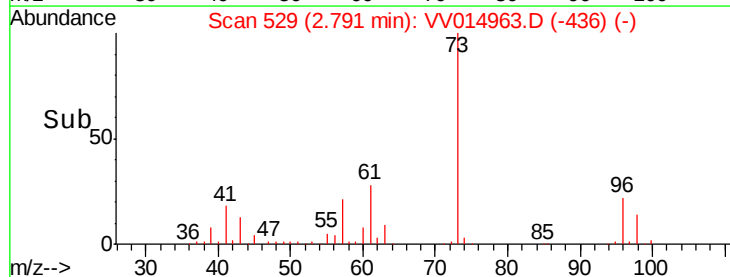
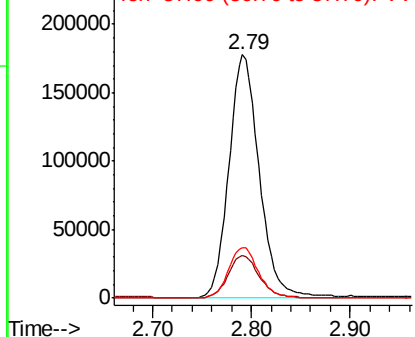


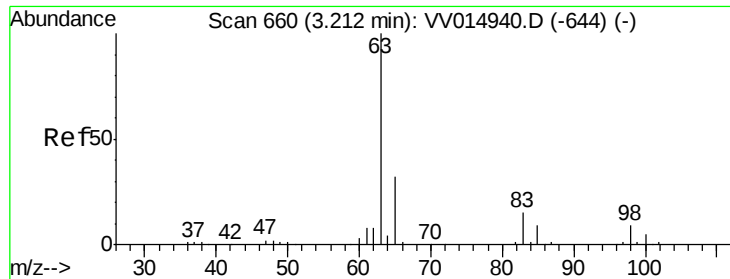
#18
Methyl tert-butyl Ether
Concen: 48.388 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.00 min
Lab File: VV014963.D
Acq: 16 Mar 2020 22:09

Tgt Ion: 73 Resp: 383573
Ion Ratio Lower Upper
73 100
43 17.3 14.4 21.6
57 20.5 16.0 24.0



Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

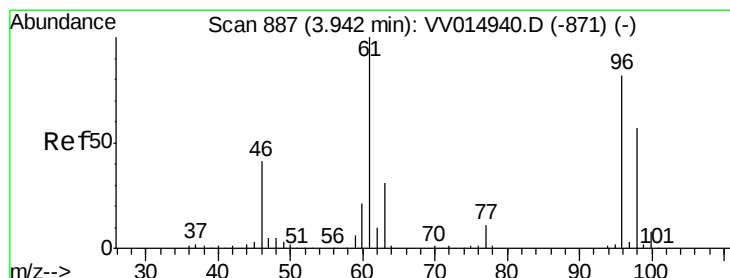
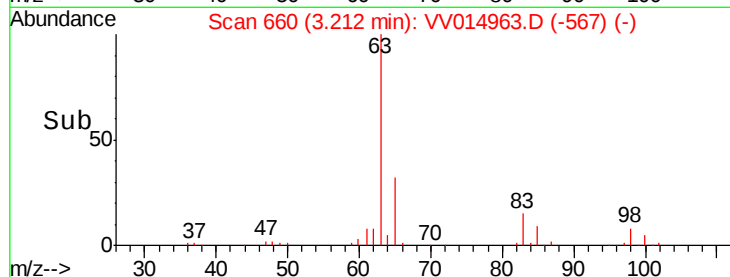
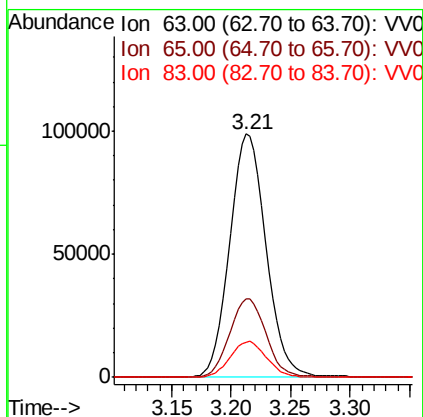
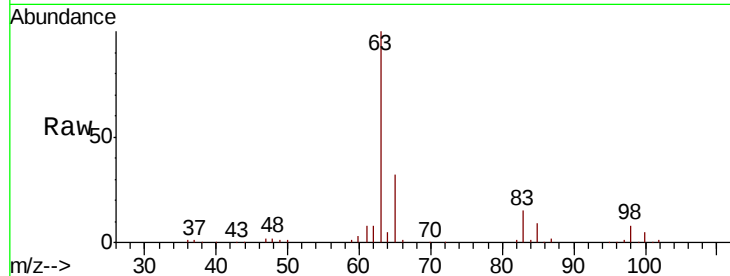




#19
 1,1-Dichloroethane
 Concen: 47.048 ug/L
 RT: 3.21 min Scan# 660
 Delta R.T. 0.00 min
 Lab File: VV014963.D
 Acq: 16 Mar 2020 22:09

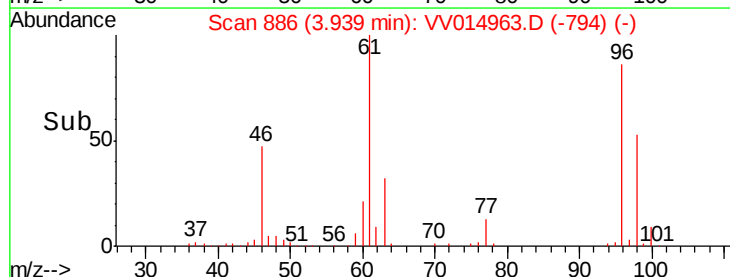
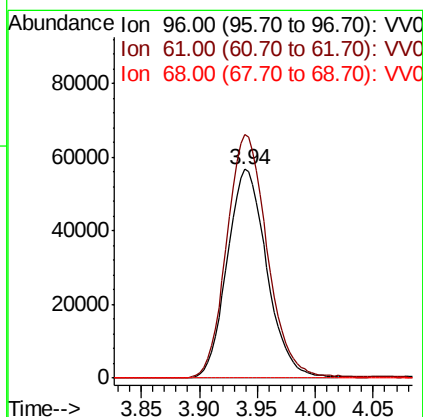
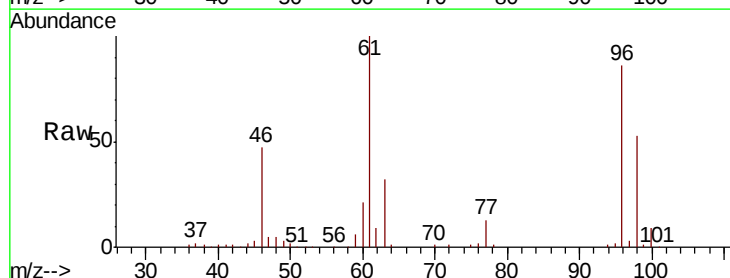
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05093

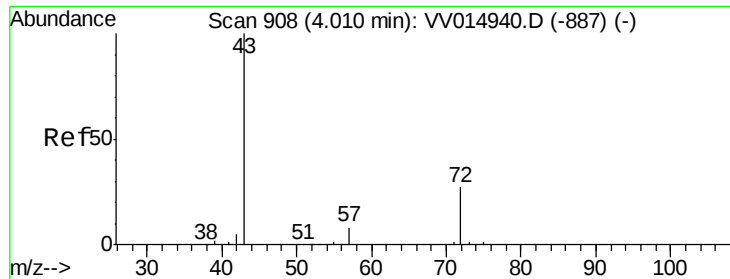
Tot Ion: 63 Resp: 209792
 Ion Ratio Lower Upper
 63 100
 65 32.3 22.7 42.3
 83 14.6 10.4 19.2



#20
 cis-1,2-Dichloroethene
 Concen: 47.623 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. -0.00 min
 Lab File: VV014963.D
 Acq: 16 Mar 2020 22:09

Tgt Ion: 96 Resp: 134575
 Ion Ratio Lower Upper
 96 100
 61 116.8 80.2 149.0
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 88.962 ug/L

RT: 4.01 min Scan# 909

Delta R.T. 0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

Instrument :

MSVOA_V

ClientSampleId :

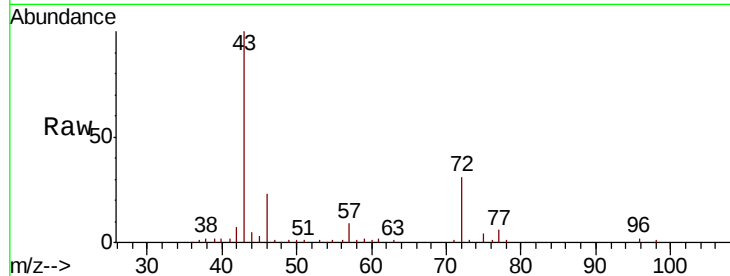
VSTD05093

Tot Ion: 43 Resp: 134885

Ion Ratio Lower Upper

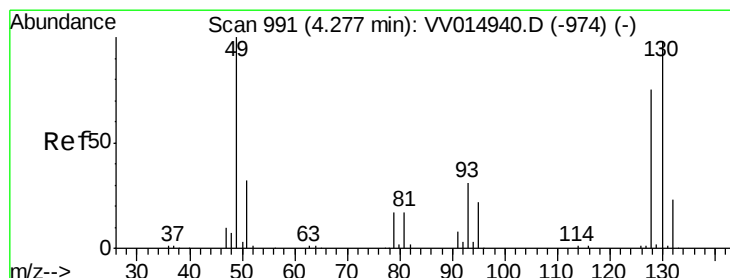
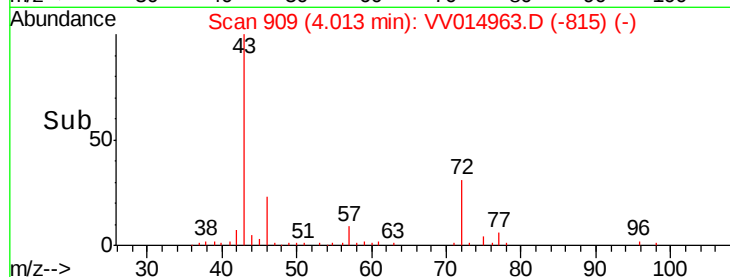
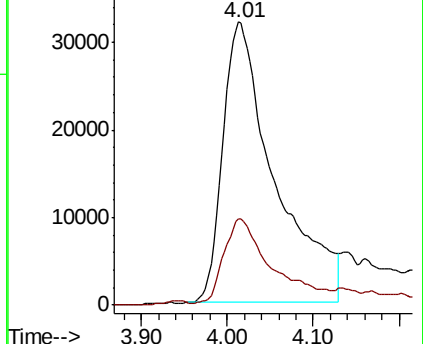
43 100

72 24.1 10.9 32.6



Abundance Ion 43.00 (42.70 to 43.70): VV014940.D (-887) (-)

Ion 72.00 (71.70 to 72.70): VV014940.D (-887) (-)



#23

Bromochloromethane

Concen: 47.609 ug/L

RT: 4.28 min Scan# 991

Delta R.T. 0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

Tgt Ion: 128 Resp: 71251

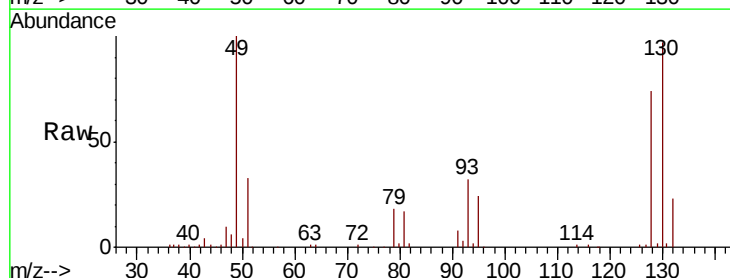
Ion Ratio Lower Upper

128 100

49 136.0 90.4 167.8

130 131.4 90.4 168.0

51 45.3 32.7 49.1

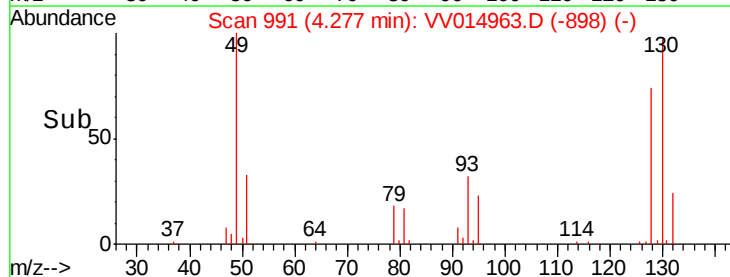
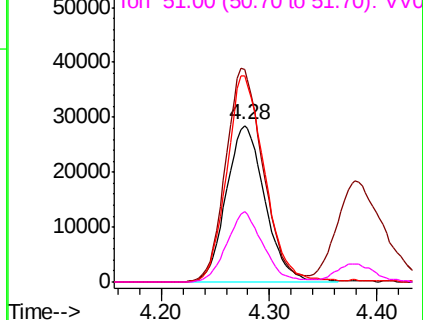


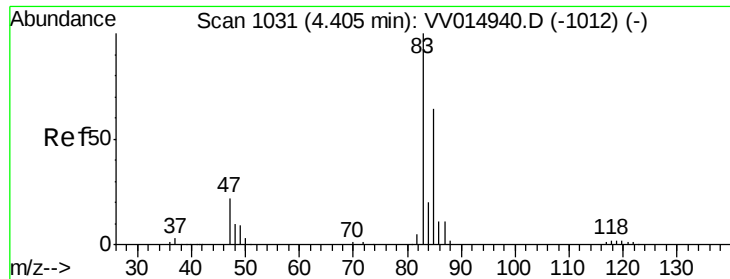
Abundance Ion 128.00 (127.70 to 128.70): VV014940.D (-974) (-)

Ion 49.00 (48.70 to 49.70): VV014940.D (-974) (-)

Ion 130.00 (129.70 to 130.70): VV014940.D (-974) (-)

Ion 51.00 (50.70 to 51.70): VV014940.D (-974) (-)

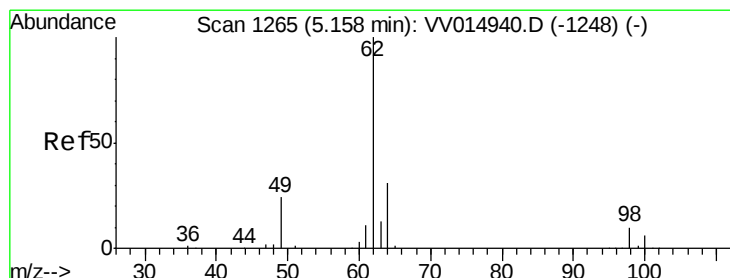
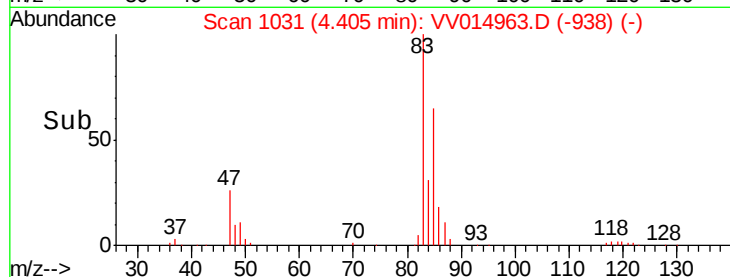
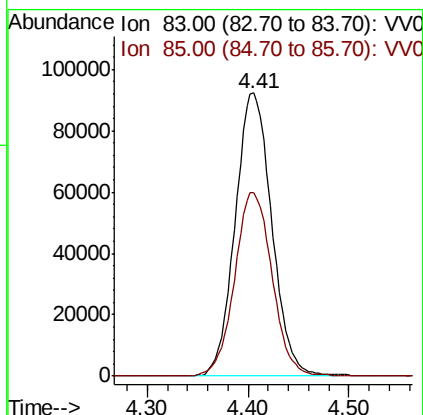
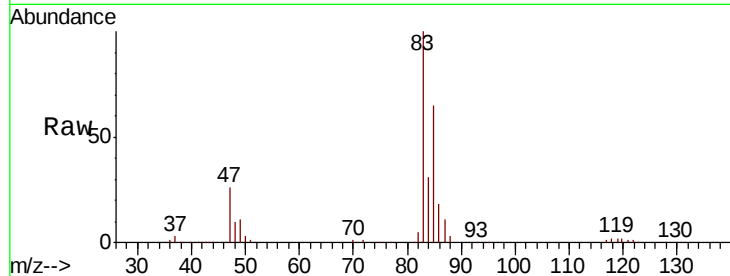




#25
Chloroform
Concen: 47.198 ug/L
RT: 4.41 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VV014963.D
Acq: 16 Mar 2020 22:09

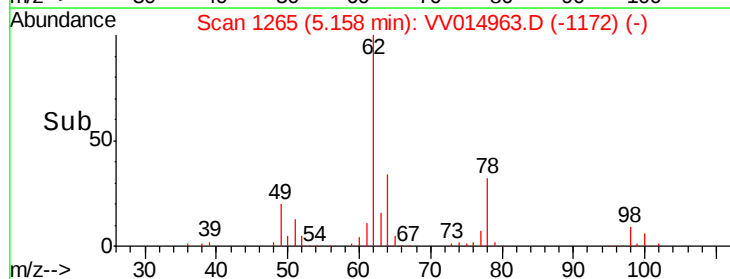
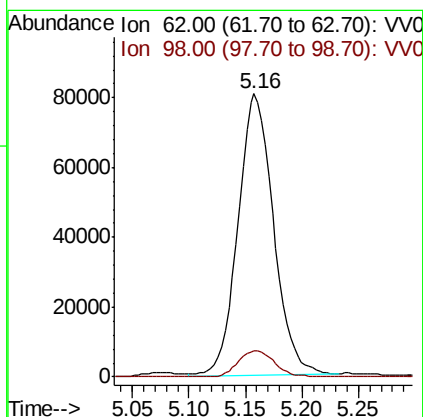
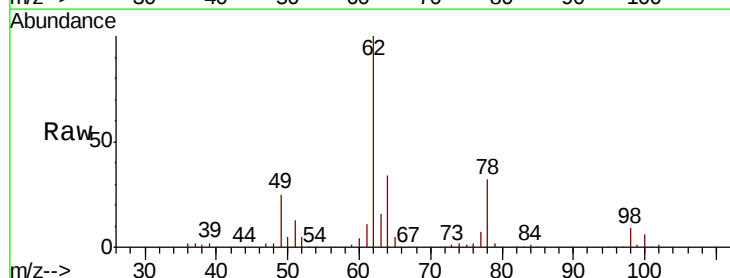
Instrument :
MSVOA_V
ClientSampled :
VSTD05093

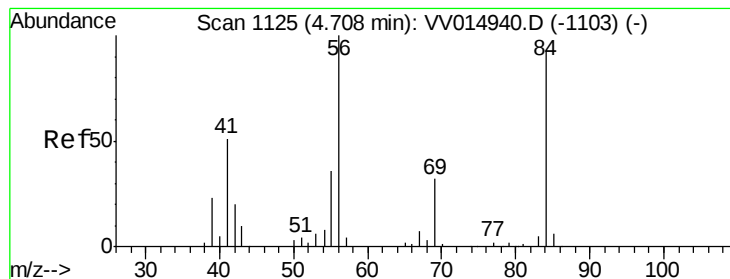
Tot Ion: 83 Resp: 232369
Ion Ratio Lower Upper
83 100
85 65.0 44.6 82.8



#27
1,2-Dichloroethane
Concen: 47.533 ug/L
RT: 5.16 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VV014963.D
Acq: 16 Mar 2020 22:09

Tgt Ion: 62 Resp: 176358
Ion Ratio Lower Upper
62 100
98 9.1 7.4 11.0





#29

Cyclohexane

Concen: 47.562 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. -0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD05093

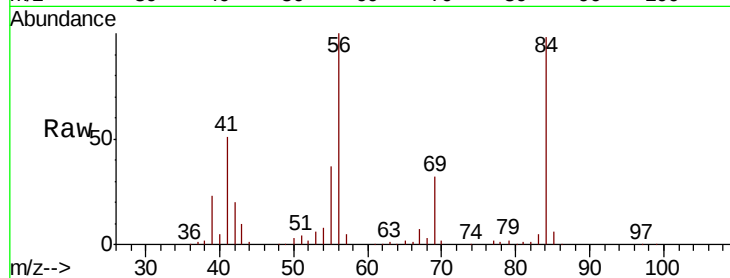
Tot Ion: 56 Resp: 181863

Ion Ratio Lower Upper

56 100

69 32.0 25.2 37.8

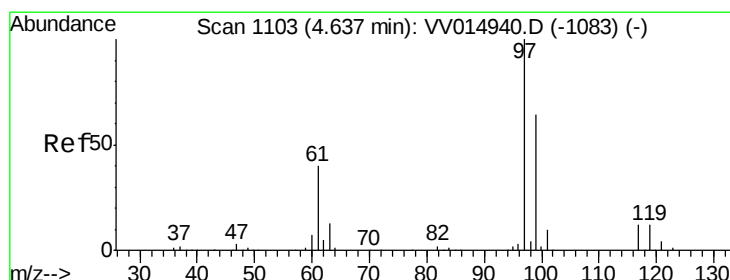
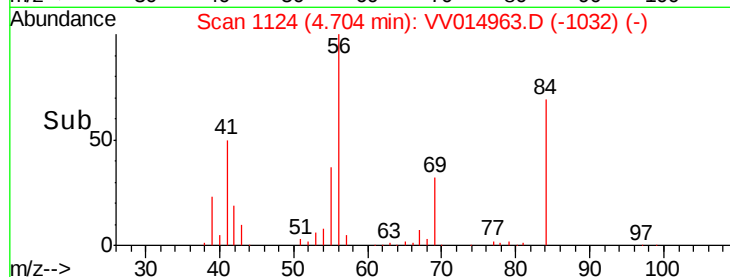
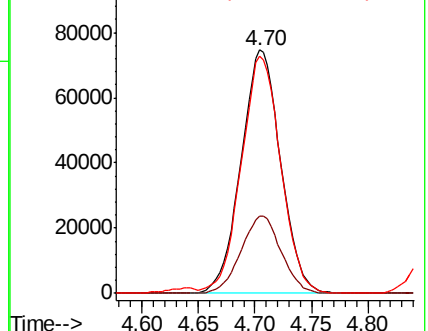
84 96.2 76.4 114.6



Abundance Ion 56.00 (55.70 to 56.70): VV014940.D (-1103) (-)

Ion 69.00 (68.70 to 69.70): VV014940.D (-1103) (-)

Ion 84.00 (83.70 to 84.70): VV014940.D (-1103) (-)



#30

1,1,1-Trichloroethane

Concen: 48.104 ug/L

RT: 4.64 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

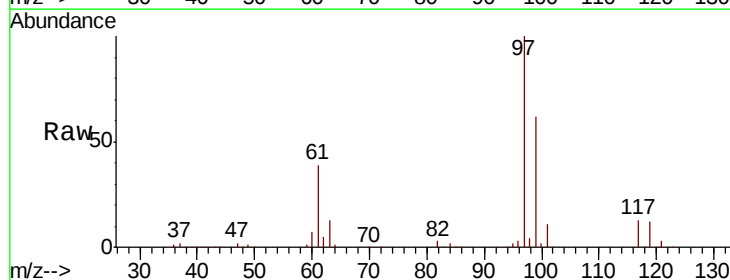
Tgt Ion: 97 Resp: 211810

Ion Ratio Lower Upper

97 100

99 63.0 51.8 77.6

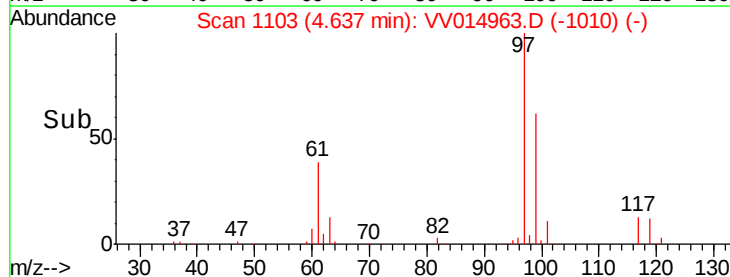
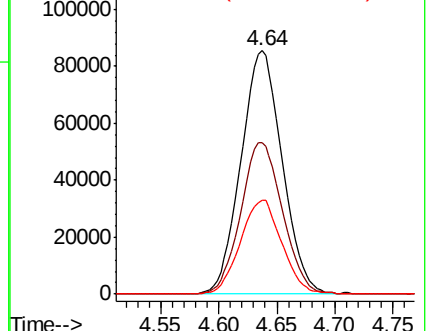
61 39.0 32.0 48.0

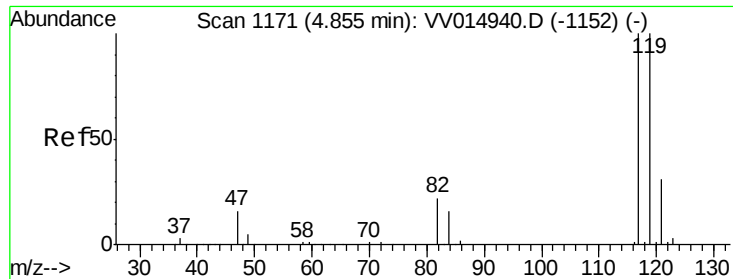


Abundance Ion 97.00 (96.70 to 97.70): VV014940.D (-1083) (-)

Ion 99.00 (98.70 to 99.70): VV014940.D (-1083) (-)

Ion 61.05 (60.75 to 61.75): VV014940.D (-1083) (-)





#31

Carbon tetrachloride

Concen: 48.095 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

Instrument :

MSVOA_V

ClientSampleId :

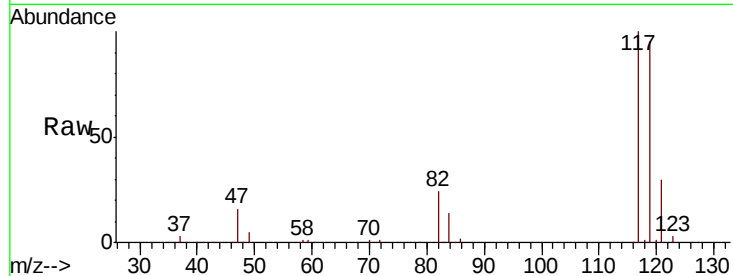
VSTD05093

Tot Ion:117 Resp: 188797

Ion Ratio Lower Upper

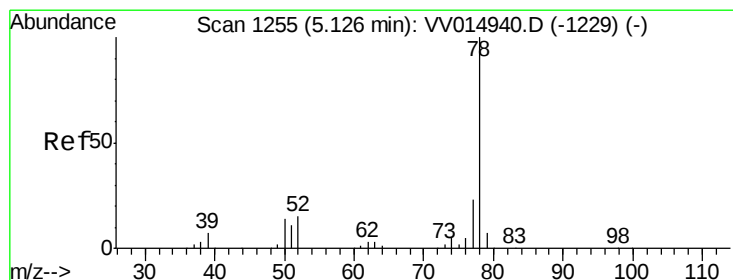
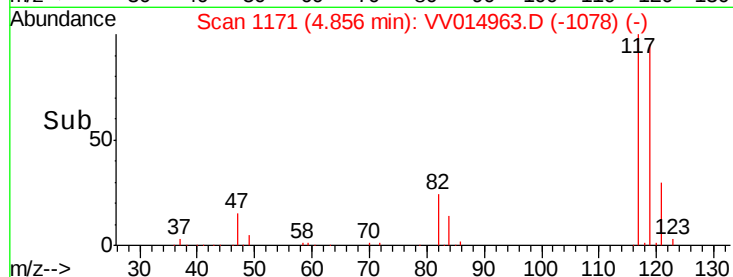
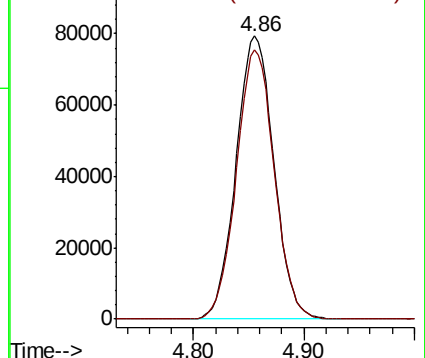
117 100

119 95.2 75.9 113.9



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 48.889 ug/L

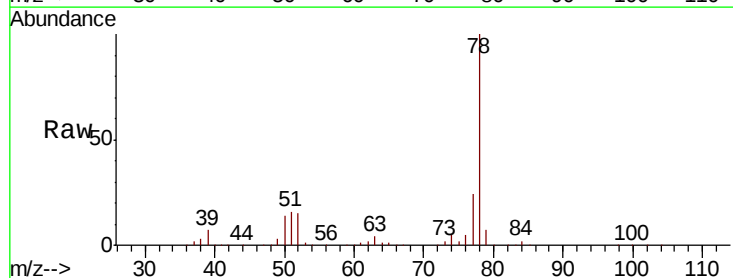
RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

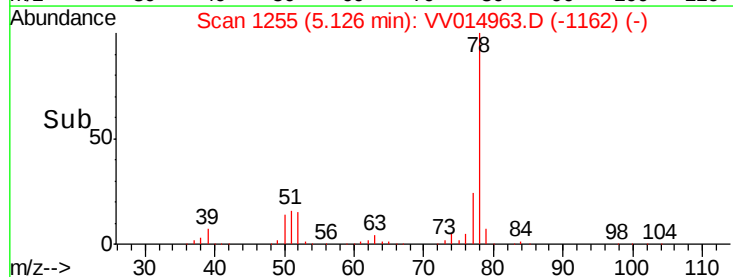
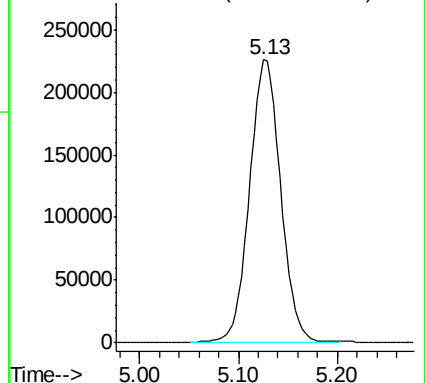
Lab File: VV014963.D

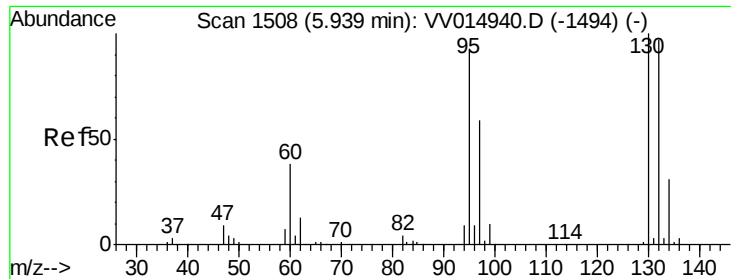
Acq: 16 Mar 2020 22:09

Tgt Ion: 78 Resp: 492498



Abundance Ion 78.00 (77.70 to 78.70): VV0

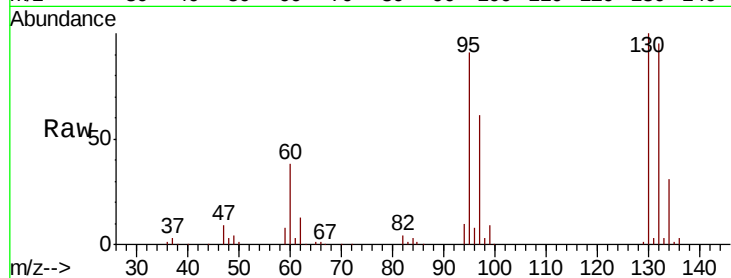




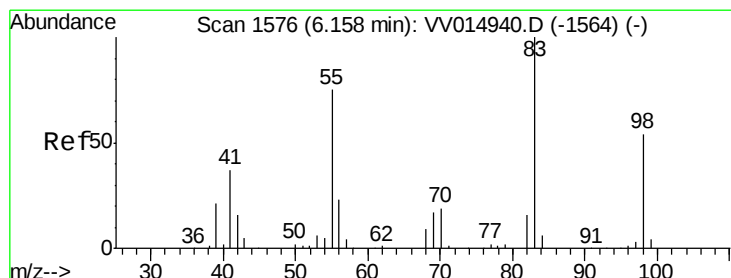
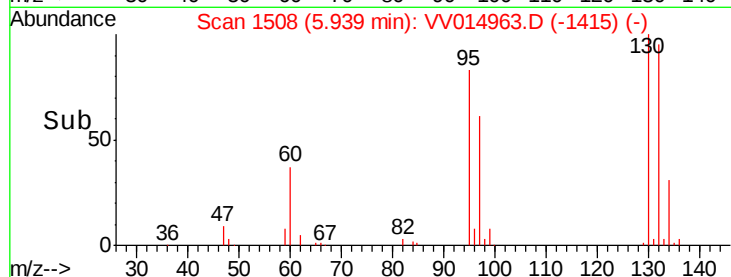
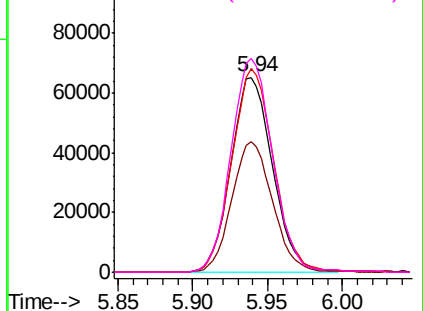
#34
 Trichloroethene
 Concen: 46.841 ug/L
 RT: 5.94 min Scan# 1508
 Delta R.T. 0.00 min
 Lab File: VV014963.D
 Acq: 16 Mar 2020 22:09

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05093

Tot Ion: 95 Resp: 126626
 Ion Ratio Lower Upper
 95 100
 97 66.8 44.4 82.4
 132 104.3 72.4 134.4
 130 109.6 74.1 137.5

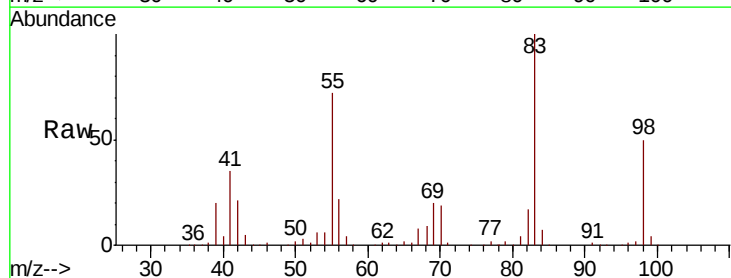


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

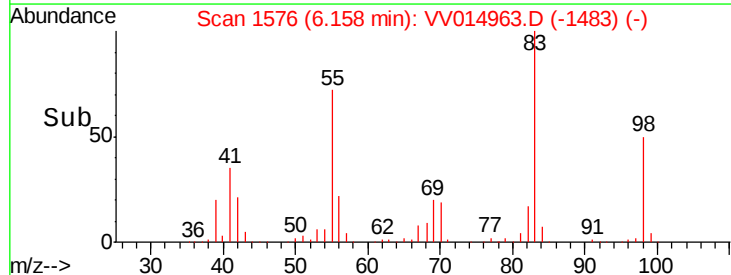
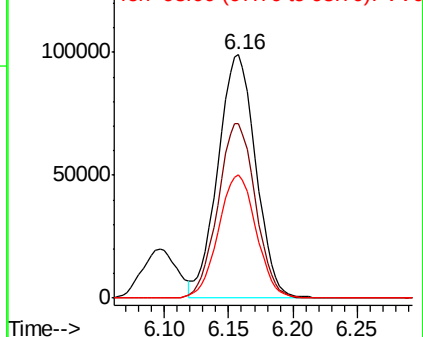


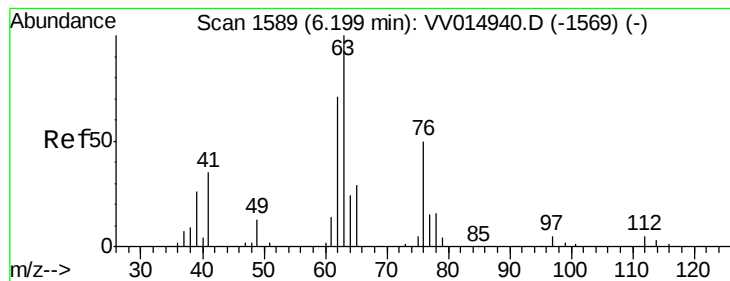
#35
 Methylcyclohexane
 Concen: 46.294 ug/L
 RT: 6.16 min Scan# 1576
 Delta R.T. 0.00 min
 Lab File: VV014963.D
 Acq: 16 Mar 2020 22:09

Tgt Ion: 83 Resp: 201884
 Ion Ratio Lower Upper
 83 100
 55 71.3 57.5 86.3
 98 50.4 39.5 59.3



Abundance Ion 83.00 (82.70 to 83.70): VV0
 Ion 55.00 (54.70 to 55.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 46.764 ug/L

RT: 6.20 min Scan# 1589

Delta R.T. 0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

Instrument :

MSVOA_V

ClientSampleId :

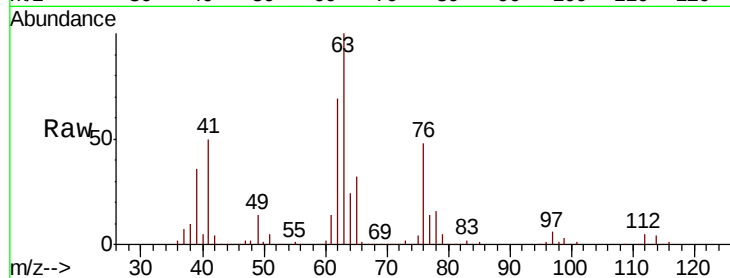
VSTD05093

Tot Ion: 63 Resp: 118043

Ion Ratio Lower Upper

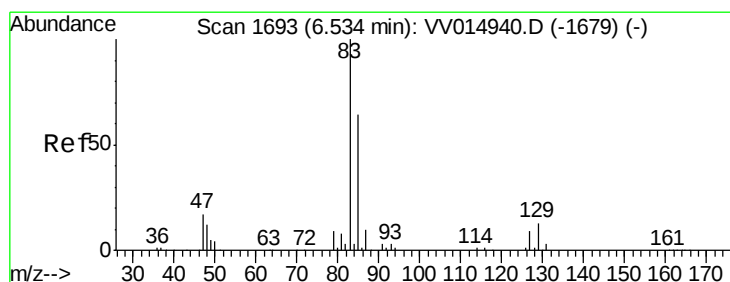
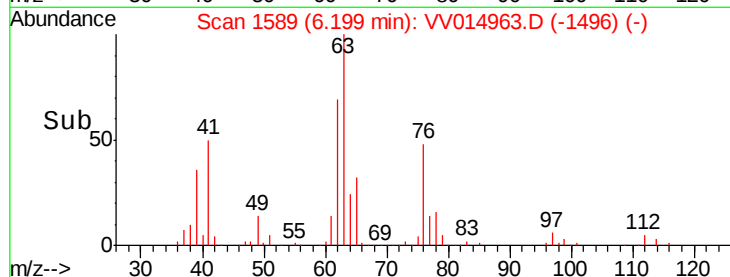
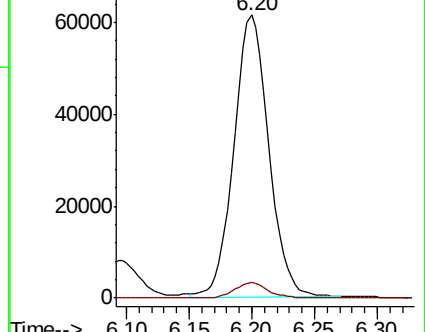
63 100

112 5.4 4.4 6.6



Abundance Ion 63.00 (62.70 to 63.70): VV014940.D (-1569) (-)

Ion 112.00 (111.70 to 112.70): VV014940.D (-1569) (-)



#38

Bromodichloromethane

Concen: 47.962 ug/L

RT: 6.53 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

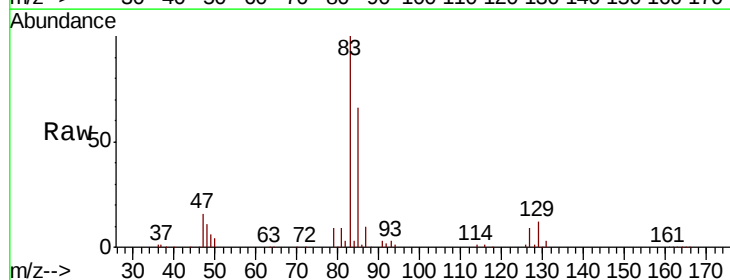
Tgt Ion: 83 Resp: 171623

Ion Ratio Lower Upper

83 100

85 66.1 46.0 85.4

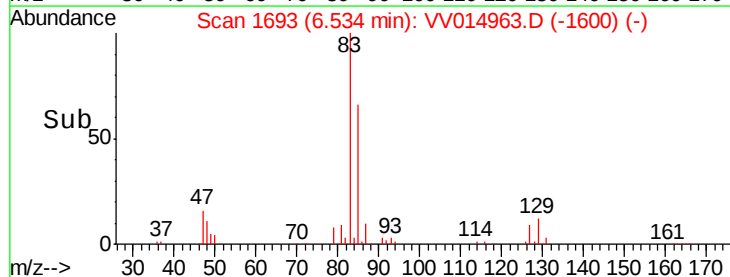
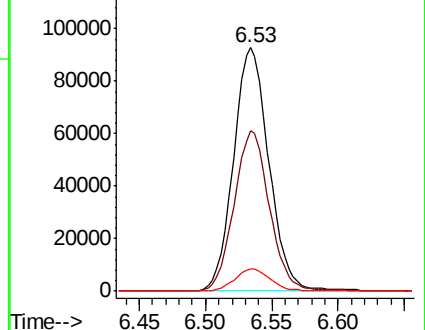
127 9.2 7.5 11.3

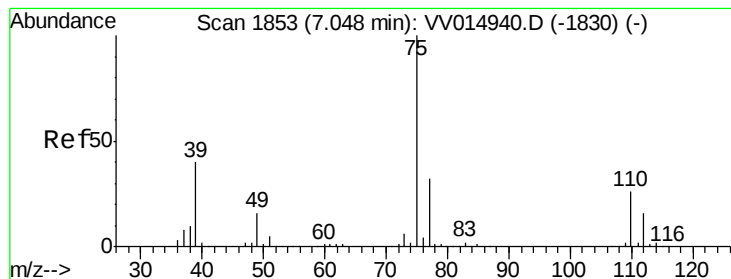


Abundance Ion 83.00 (82.70 to 83.70): VV014940.D (-1679) (-)

Ion 85.00 (84.70 to 85.70): VV014940.D (-1679) (-)

Ion 127.00 (126.70 to 127.70): VV014940.D (-1679) (-)



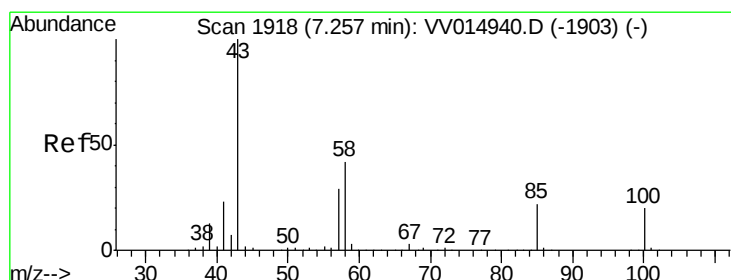
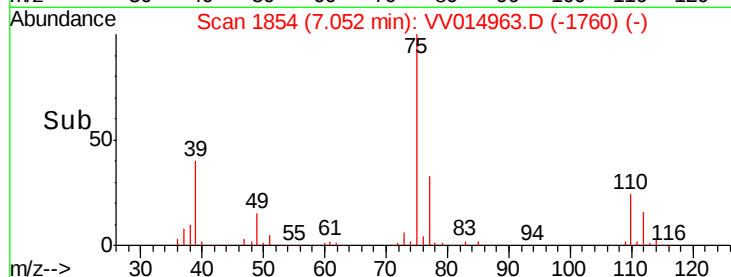
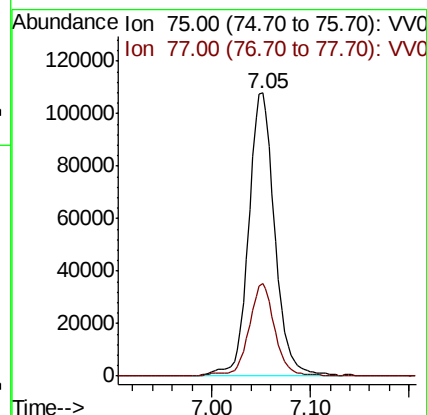
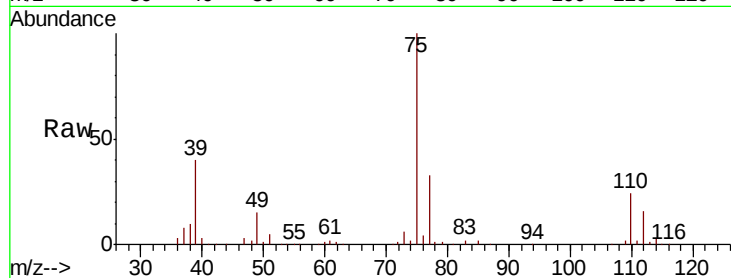


#39

cis-1,3-Dichloropropene
Concen: 47.643 ug/L
RT: 7.05 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VV014963.D
Acq: 16 Mar 2020 22:09

Instrument :
MSVOA_V
ClientSampleId :
VSTD05093

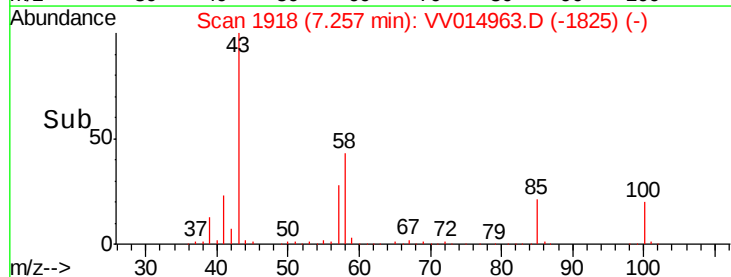
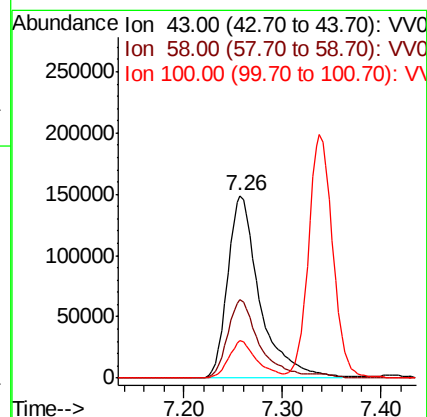
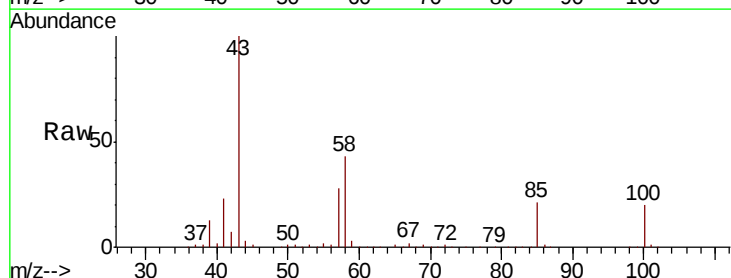
Tot Ion: 75 Resp: 197701
Ion Ratio Lower Upper
75 100
77 32.9 21.8 40.6

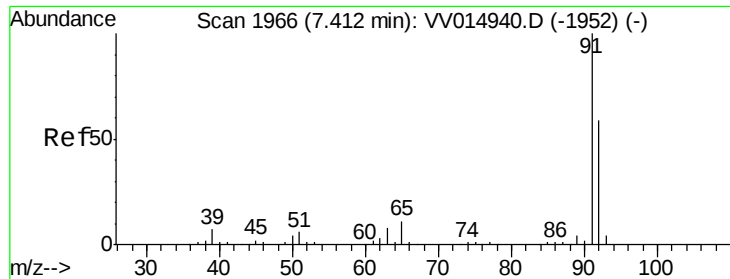


#40

4-Methyl-2-pentanone
Concen: 99.897 ug/L
RT: 7.26 min Scan# 1918
Delta R.T. 0.00 min
Lab File: VV014963.D
Acq: 16 Mar 2020 22:09

Tgt Ion: 43 Resp: 339215
Ion Ratio Lower Upper
43 100
58 42.3 33.9 50.9
100 18.2 15.1 22.7





#42

Toluene

Concen: 48.946 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

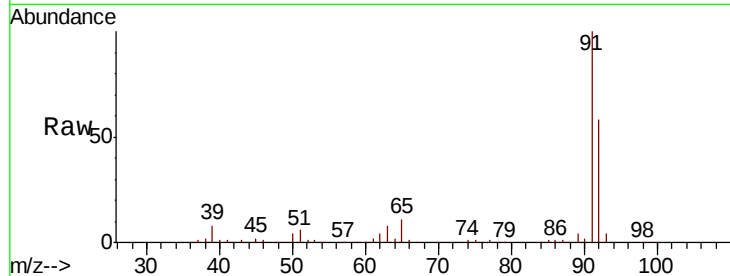
Instrument :
MSVOA_V
ClientSampleId :
VSTD05093

Tot Ion: 91 Resp: 554818

Ion Ratio Lower Upper

91 100

92 57.9 41.4 76.8



Abundance Ion 91.00 (90.70 to 91.70): VV014940.D (-1952) (-)

Ion 92.00 (91.70 to 92.70): VV014963.D (-1873) (-)

7.41

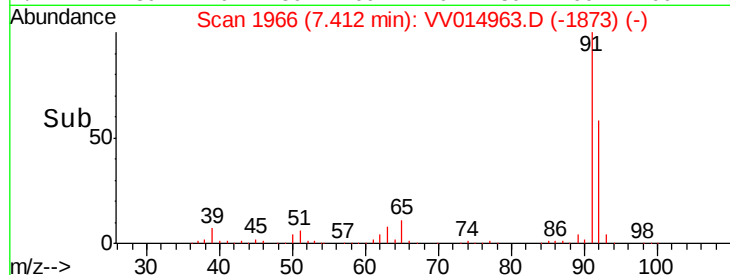
300000

200000

100000

0

Time-->



Abundance Ion 91.00 (90.70 to 91.70): VV014940.D (-1952) (-)

Ion 92.00 (91.70 to 92.70): VV014963.D (-1873) (-)

7.41

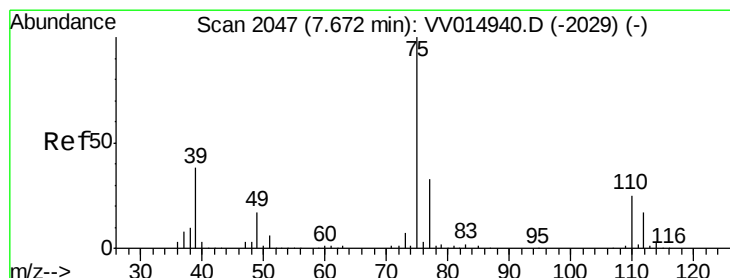
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 47.461 ug/L

RT: 7.67 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VV014963.D

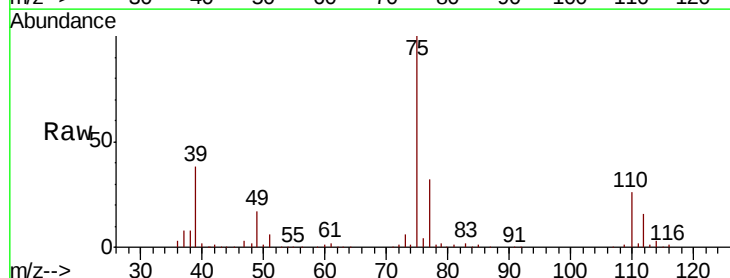
Acq: 16 Mar 2020 22:09

Tgt Ion: 75 Resp: 175239

Ion Ratio Lower Upper

75 100

77 32.4 23.5 43.7



Abundance Ion 75.00 (74.70 to 75.70): VV014940.D (-2029) (-)

Ion 77.00 (76.70 to 77.70): VV014963.D (-1954) (-)

7.67

120000

100000

80000

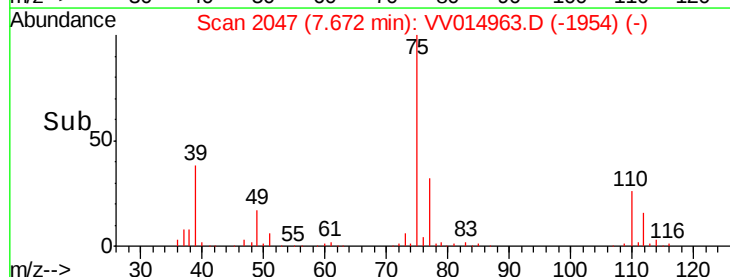
60000

40000

20000

0

Time-->



Abundance Ion 75.00 (74.70 to 75.70): VV014940.D (-2029) (-)

Ion 77.00 (76.70 to 77.70): VV014963.D (-1954) (-)

7.67

120000

100000

80000

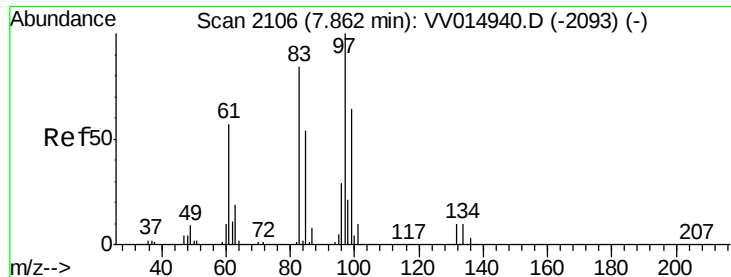
60000

40000

20000

0

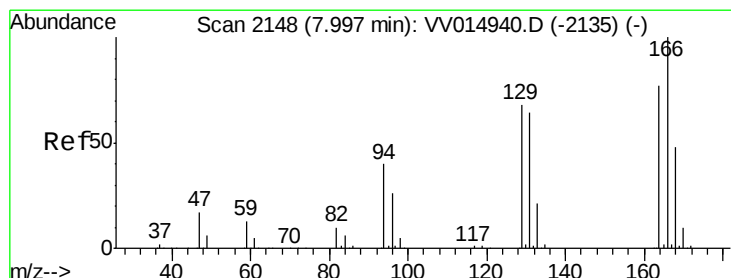
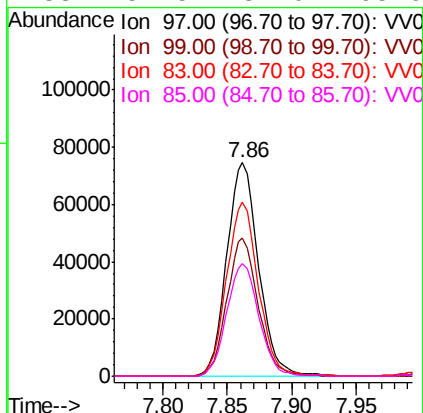
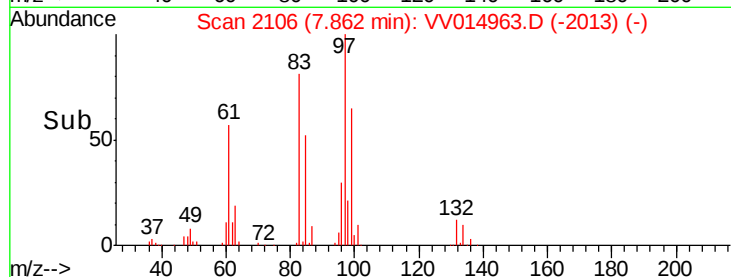
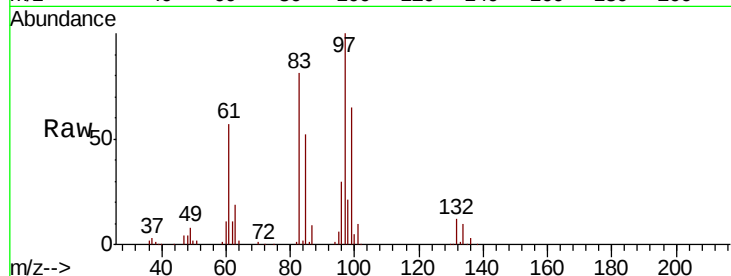
Time-->



#45
 1,1,2-Trichloroethane
 Concen: 48.671 ug/L
 RT: 7.86 min Scan# 2106
 Delta R.T. 0.00 min
 Lab File: VV014963.D
 Acq: 16 Mar 2020 22:09

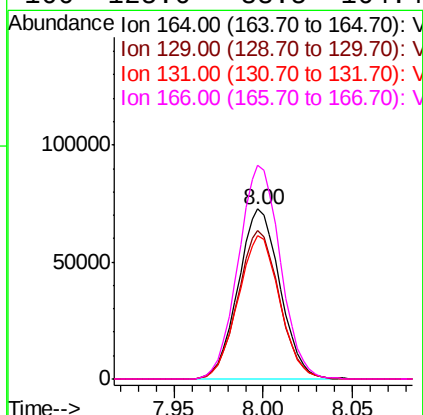
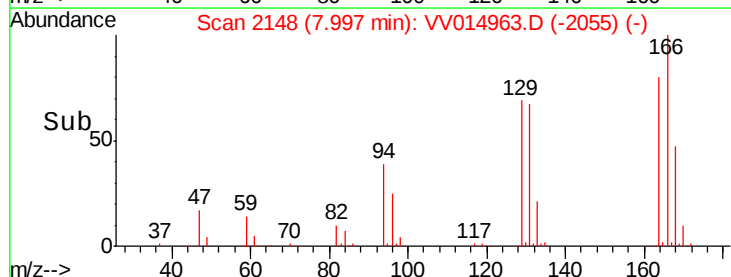
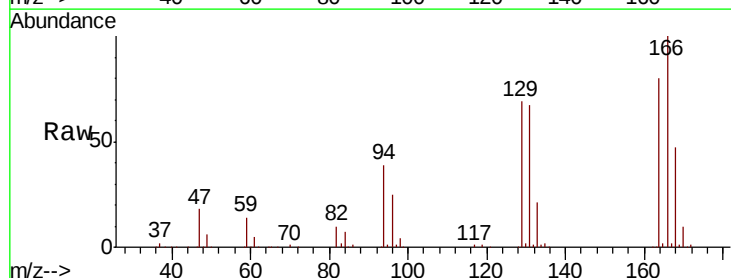
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05093

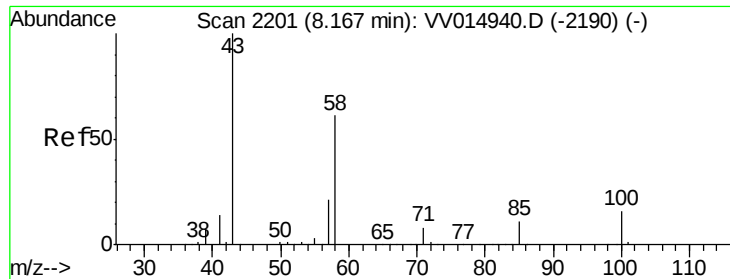
Tot Ion:	97	Resp:	127936
Ion	Ratio	Lower	Upper
97	100		
99	64.6	43.7	81.1
83	81.3	58.6	108.8
85	52.5	37.0	68.6



#46
 Tetrachloroethene
 Concen: 47.031 ug/L
 RT: 8.00 min Scan# 2148
 Delta R.T. 0.00 min
 Lab File: VV014963.D
 Acq: 16 Mar 2020 22:09

Tgt Ion:	164	Resp:	118779
Ion	Ratio	Lower	Upper
164	100		
129	87.3	62.0	115.2
131	84.1	59.5	110.5
166	125.6	88.5	164.4

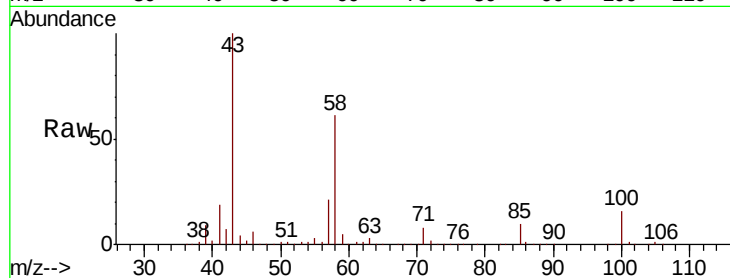




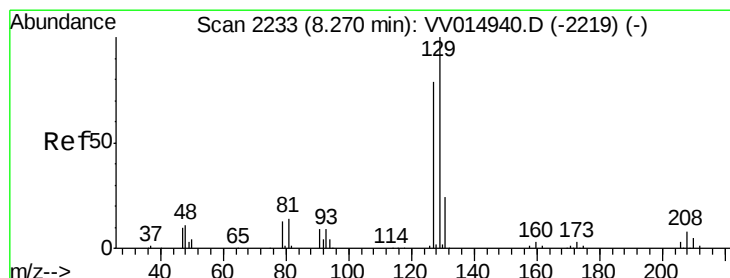
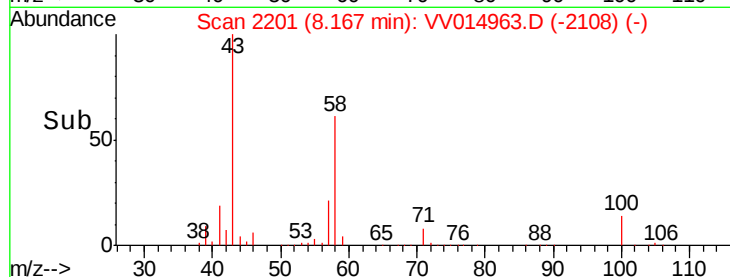
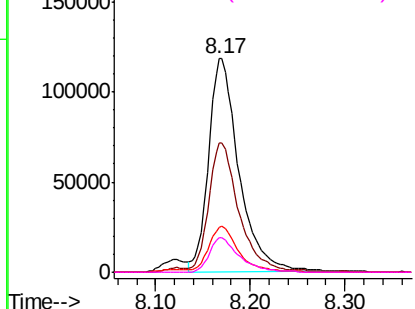
#48
2-Hexanone
Concen: 97.489 ug/L
RT: 8.17 min Scan# 2201
Delta R.T. 0.00 min
Lab File: VV014963.D
Acq: 16 Mar 2020 22:09

Instrument :
MSVOA_V
ClientSampleId :
VSTD05093

Tot Ion: 43 Resp: 262928
Ion Ratio Lower Upper
43 100
58 58.4 46.9 70.3
57 21.2 16.2 24.4
100 16.0 11.9 17.9

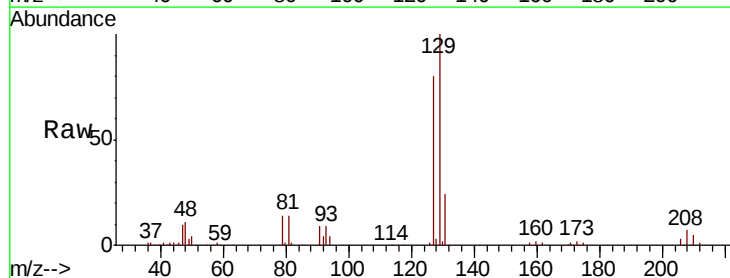


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

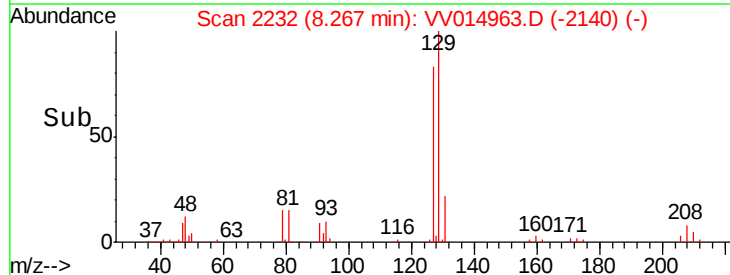
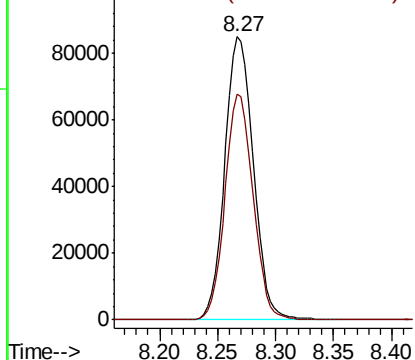


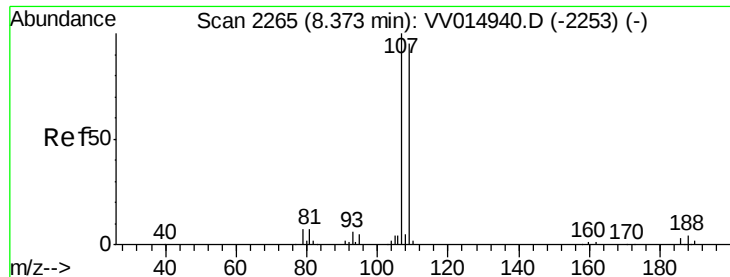
#49
Dibromochloromethane
Concen: 49.320 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. -0.00 min
Lab File: VV014963.D
Acq: 16 Mar 2020 22:09

Tgt Ion: 129 Resp: 145833
Ion Ratio Lower Upper
129 100
127 79.9 55.9 103.9



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





#50

1,2-Dibromoethane

Concen: 48.357 ug/L

RT: 8.37 min Scan# 2265

Delta R.T. 0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD05093

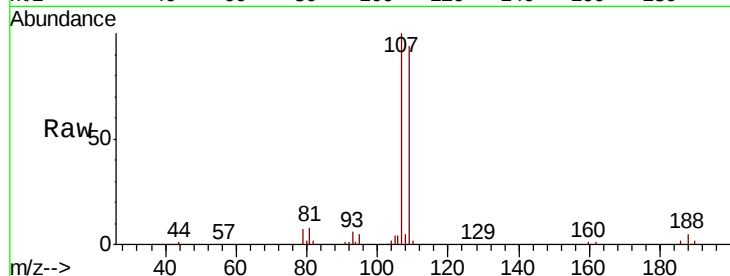
Tot Ion:107 Resp: 139439

Ion Ratio Lower Upper

107 100

109 93.9 66.1 122.7

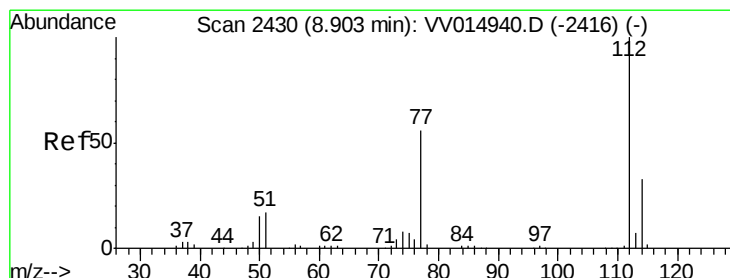
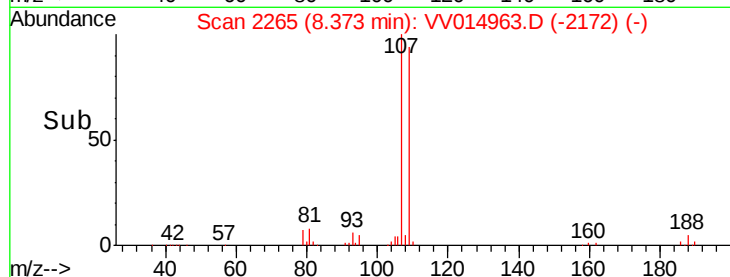
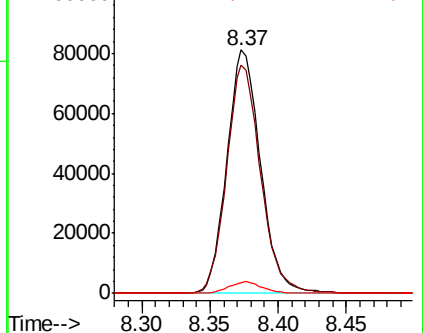
188 4.5 4.0 6.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 51.082 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

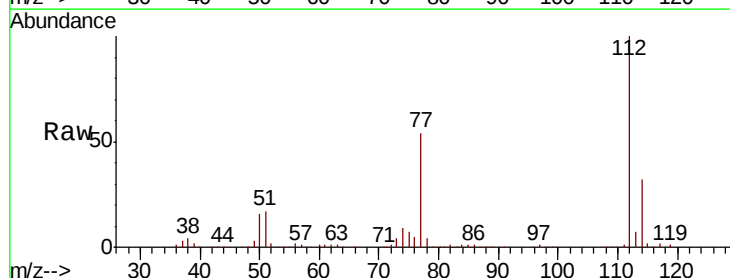
Tgt Ion:112 Resp: 398744

Ion Ratio Lower Upper

112 100

114 31.9 22.8 42.4

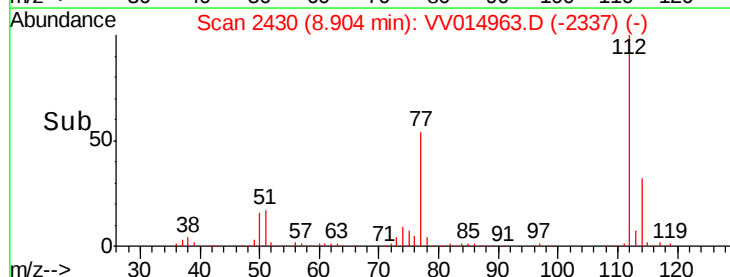
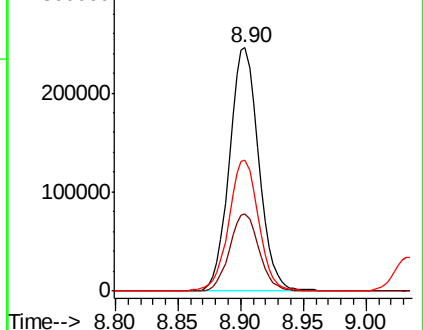
77 53.8 44.5 66.7

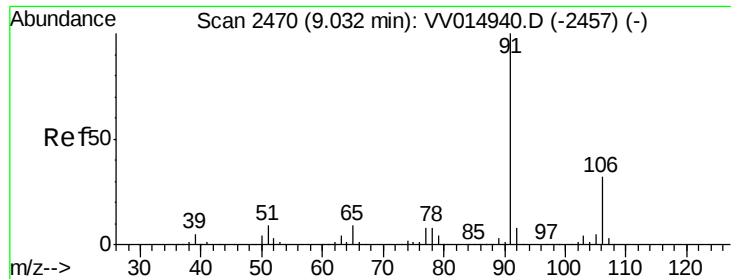


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VV0





#52

Ethylbenzene

Concen: 48.699 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

Instrument :

MSVOA_V

ClientSampleId :

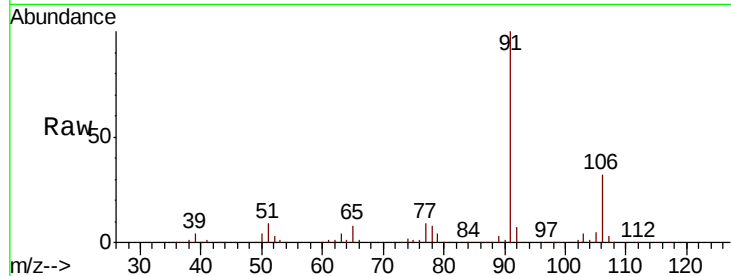
VSTD05093

Tot Ion: 91 Resp: 629161

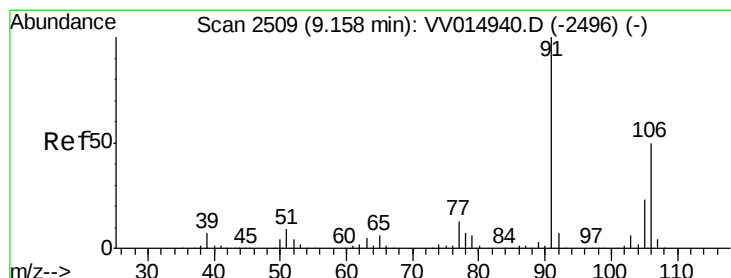
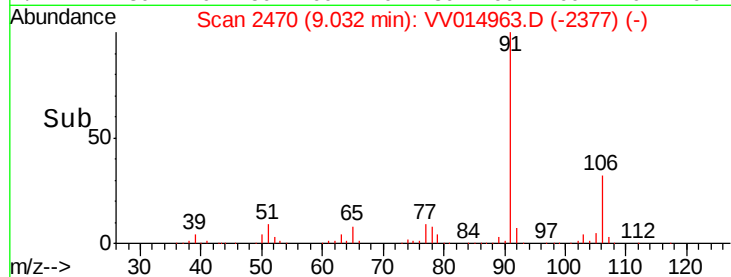
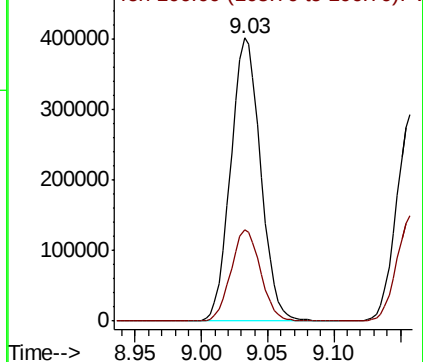
Ion Ratio Lower Upper

91 100

106 32.2 21.9 40.7



Abundance Ion 91.00 (90.70 to 91.70): VV014963.D (-2377) (-)



#53

m,p-Xylene

Concen: 49.189 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV014963.D

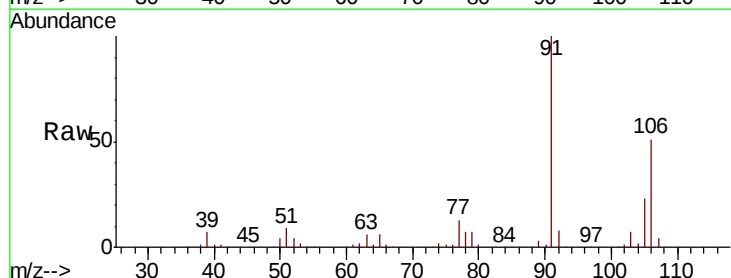
Acq: 16 Mar 2020 22:09

Tgt Ion: 106 Resp: 246621

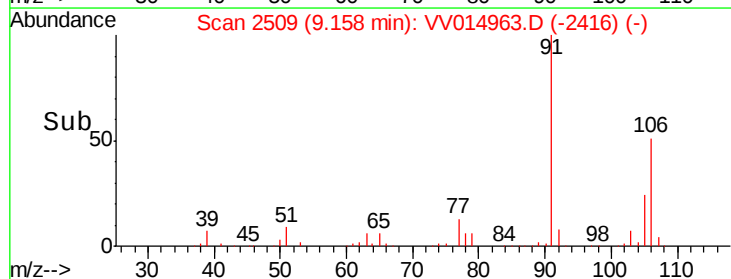
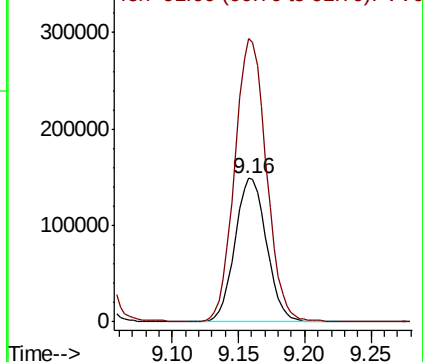
Ion Ratio Lower Upper

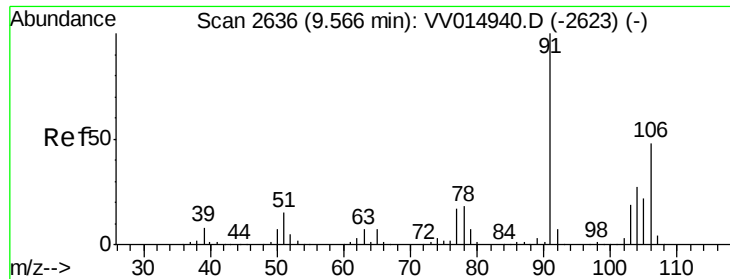
106 100

91 197.0 140.3 260.6



Abundance Ion 106.00 (105.70 to 106.70): VV014963.D (-2416) (-)





#54

o-xylene

Concen: 48.696 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. -0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

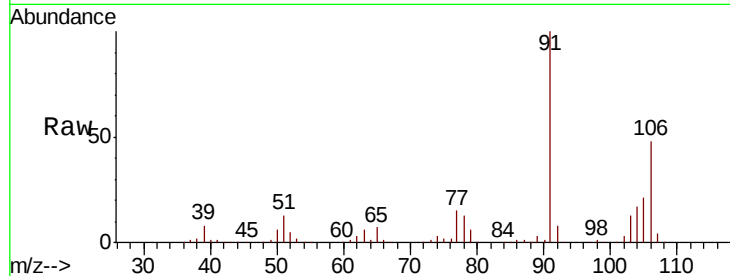
Instrument :
MSVOA_V
ClientSampleId :
VSTD05093

Tot Ion:106 Resp: 242047

Ion Ratio Lower Upper

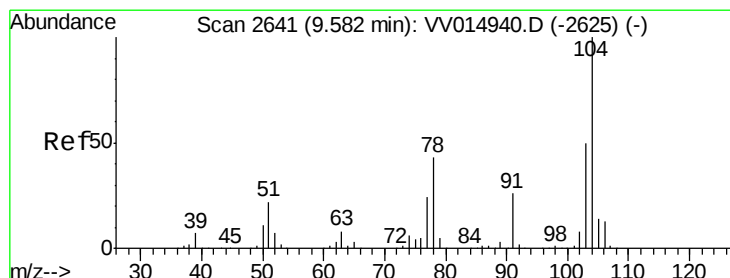
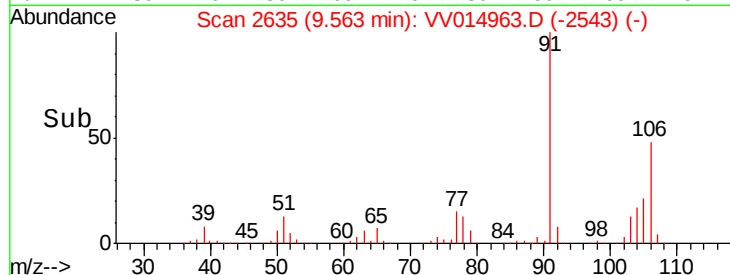
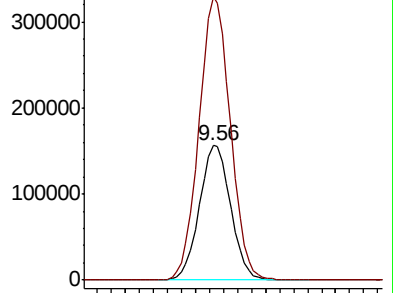
106 100

91 209.9 147.9 274.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 49.785 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV014963.D

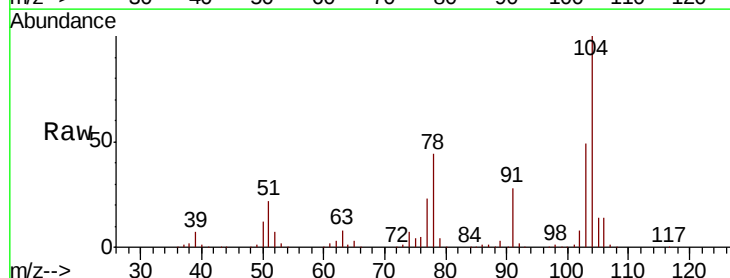
Acq: 16 Mar 2020 22:09

Tgt Ion:104 Resp: 413117

Ion Ratio Lower Upper

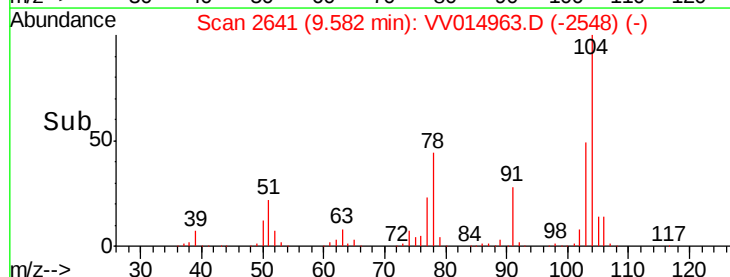
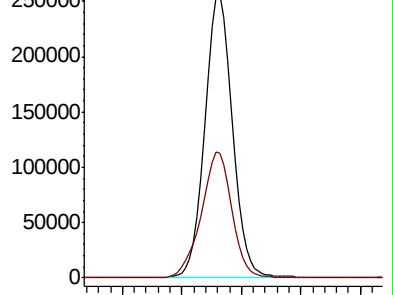
104 100

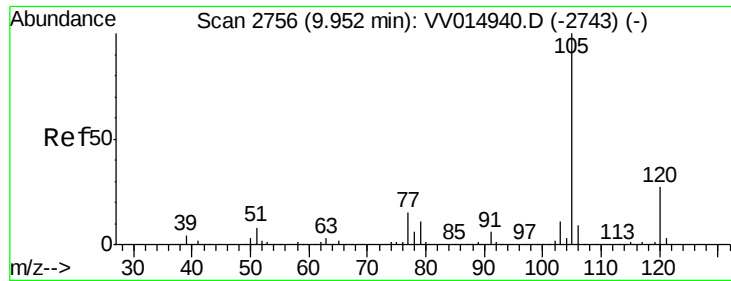
78 44.2 30.1 55.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 49.278 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

Instrument :

MSVOA_V

ClientSampled :

VSTD05093

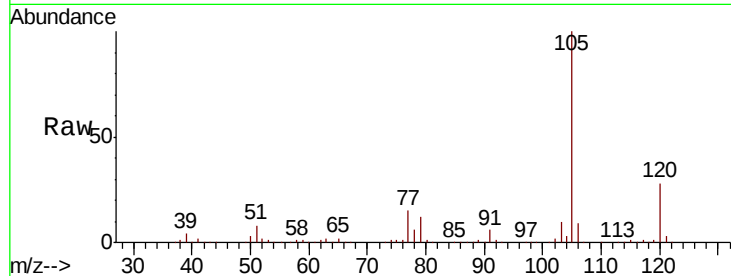
Tot Ion:105 Resp: 645868

Ion Ratio Lower Upper

105 100

120 27.3 21.6 32.4

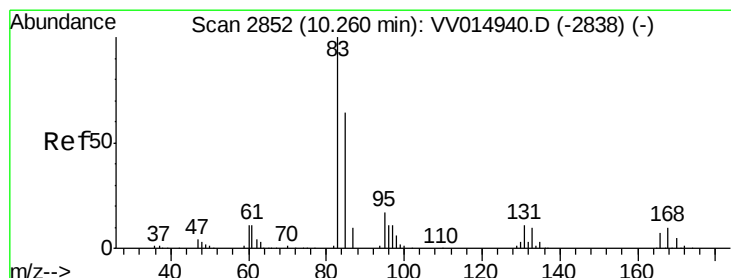
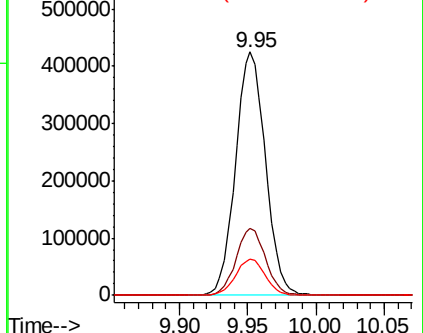
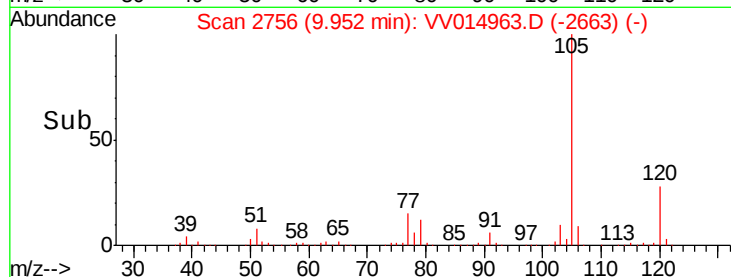
77 14.9 11.9 17.9



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: 48.146 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

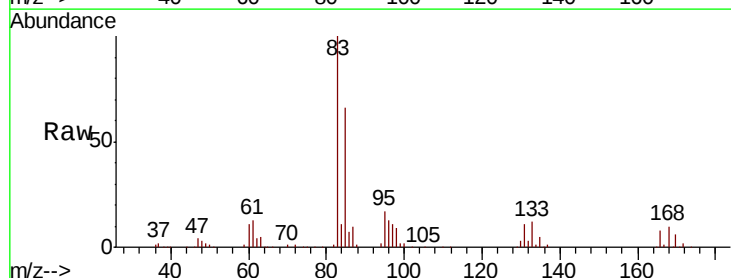
Tgt Ion: 83 Resp: 209368

Ion Ratio Lower Upper

83 100

85 65.6 44.0 81.6

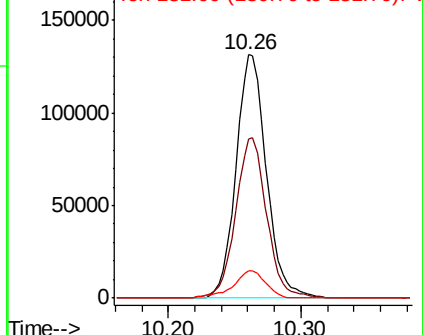
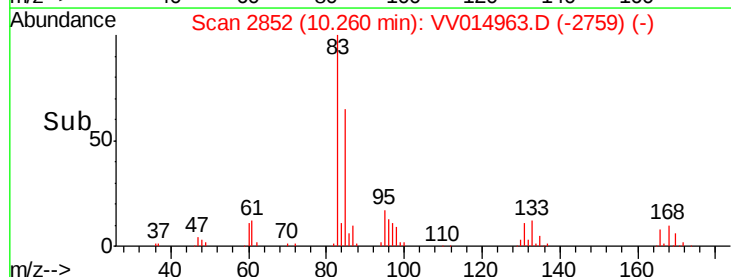
131 11.2 8.5 12.7

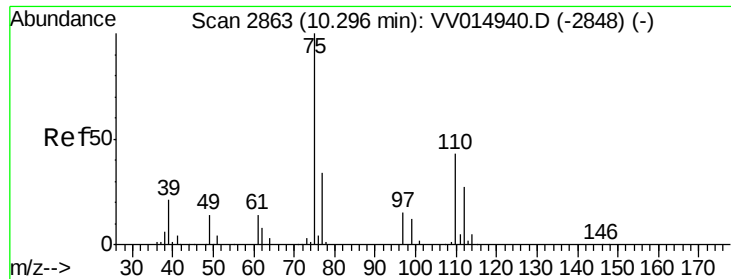


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

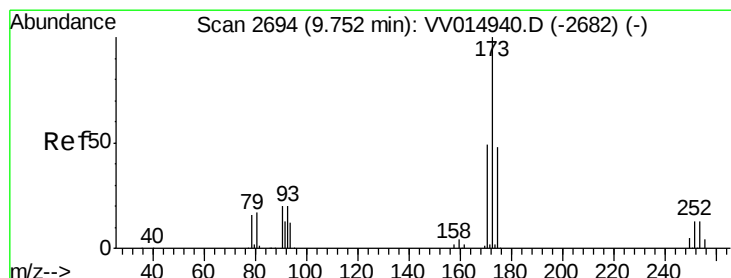
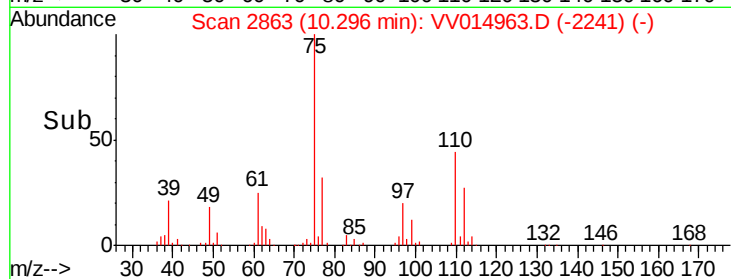
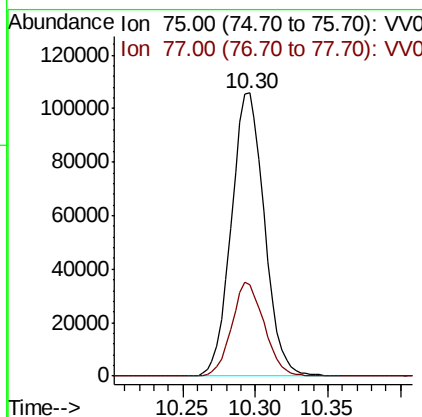
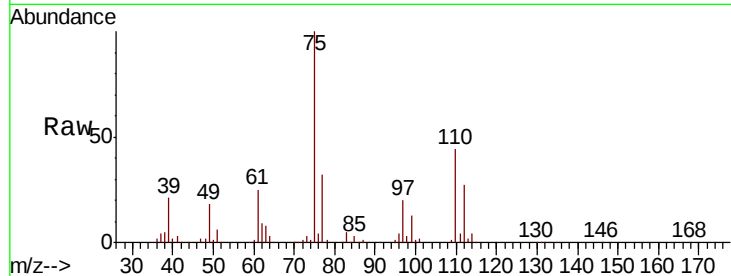




#59
 1,2,3-Trichloropropane
 Concen: 48.278 ug/L
 RT: 10.30 min Scan# 2863
 Delta R.T. 0.00 min
 Lab File: VV014963.D
 Acq: 16 Mar 2020 22:09

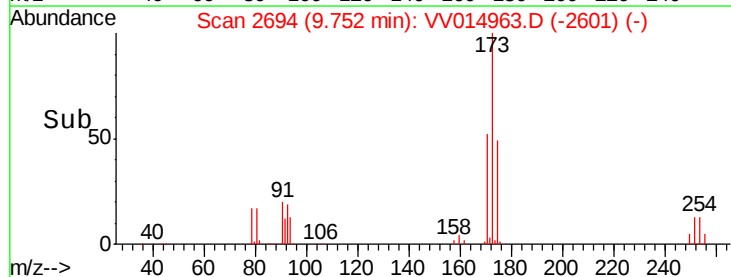
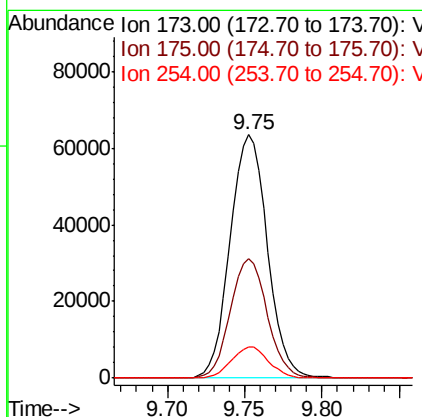
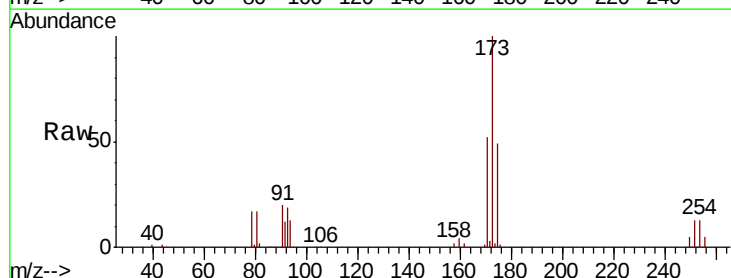
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05093

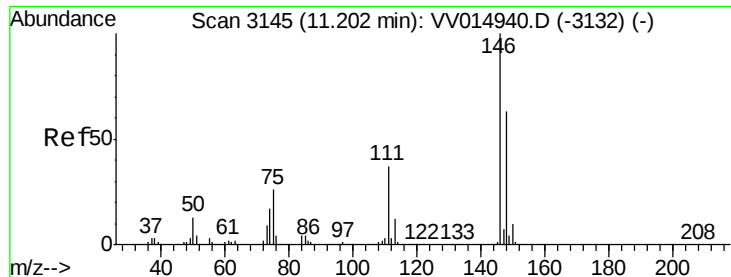
Tot Ion: 75 Resp: 167109
 Ion Ratio Lower Upper
 75 100
 77 32.7 26.6 40.0



#61
 Bromoform
 Concen: 50.031 ug/L
 RT: 9.75 min Scan# 2694
 Delta R.T. 0.00 min
 Lab File: VV014963.D
 Acq: 16 Mar 2020 22:09

Tgt Ion: 173 Resp: 106266
 Ion Ratio Lower Upper
 173 100
 175 48.7 39.4 59.2
 254 12.9 10.2 15.4





#62

1,3-Dichlorobenzene

Concen: 48.739 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD05093

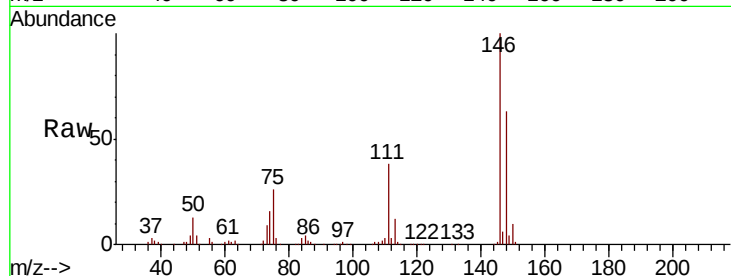
Tot Ion:146 Resp: 317965

Ion Ratio Lower Upper

146 100

111 37.7 26.5 49.3

148 63.0 45.4 84.2

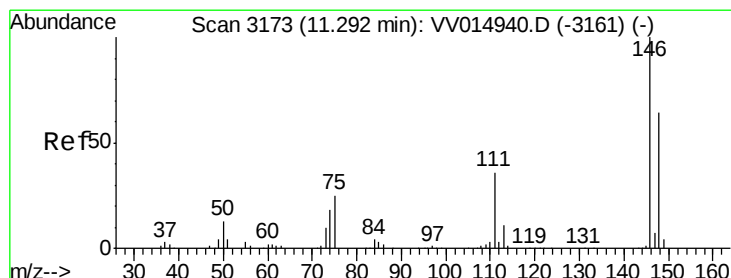
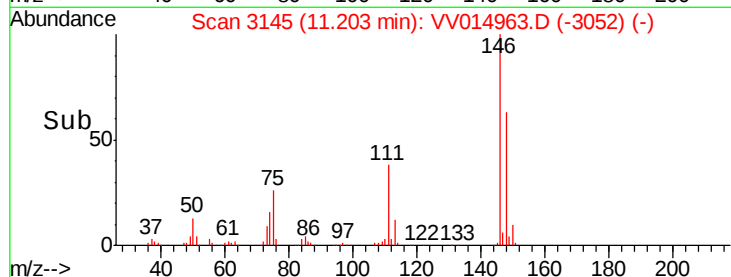
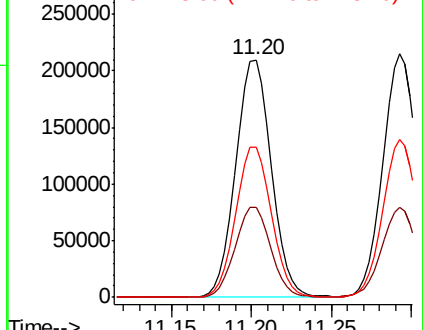


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 49.954 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

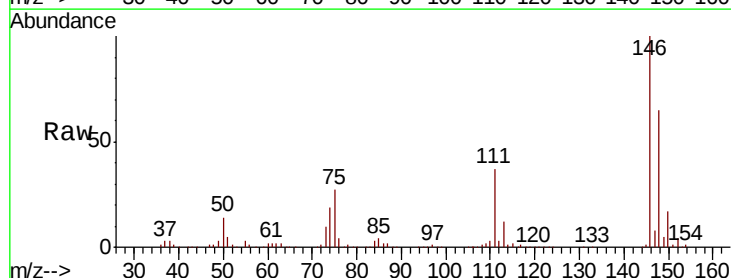
Tgt Ion:146 Resp: 328281

Ion Ratio Lower Upper

146 100

111 37.1 26.0 48.2

148 65.1 46.1 85.5

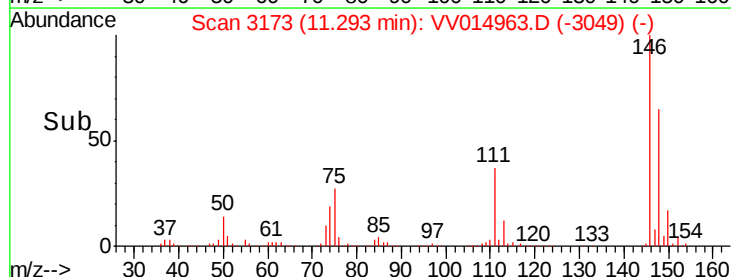
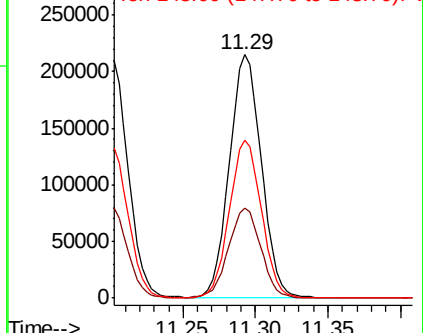


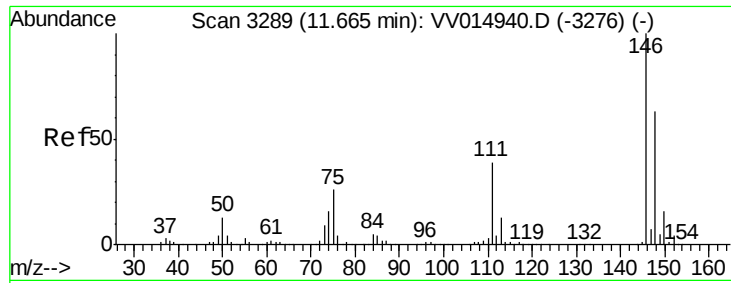
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 50.376 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD05093

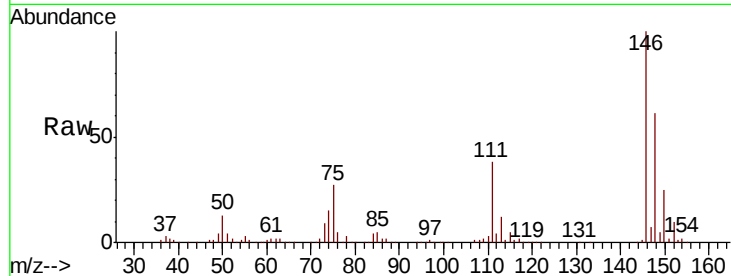
Tot Ion:146 Resp: 328284

Ion Ratio Lower Upper

146 100

111 37.7 31.6 47.4

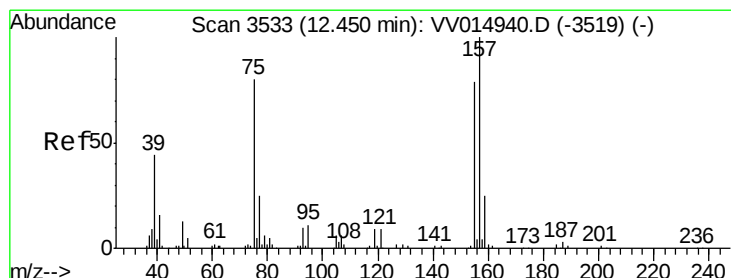
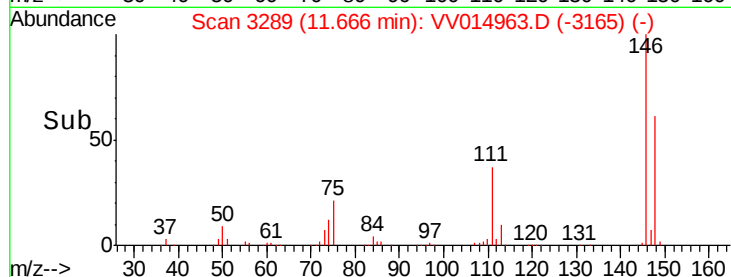
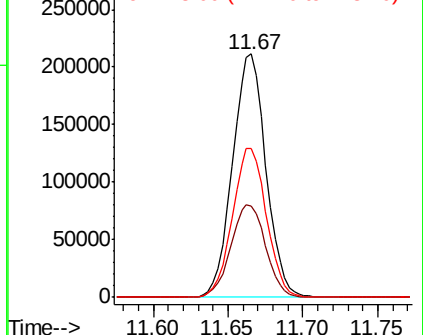
148 61.4 52.2 78.4



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: 48.303 ug/L

RT: 12.45 min Scan# 3533

Delta R.T. 0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

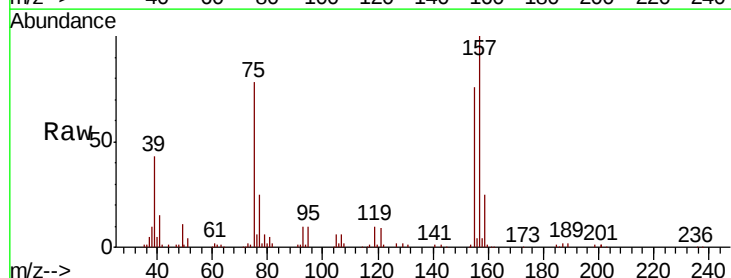
Tgt Ion: 75 Resp: 47321

Ion Ratio Lower Upper

75 100

155 97.0 77.7 116.5

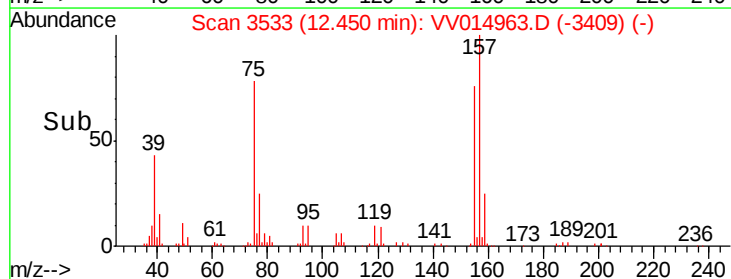
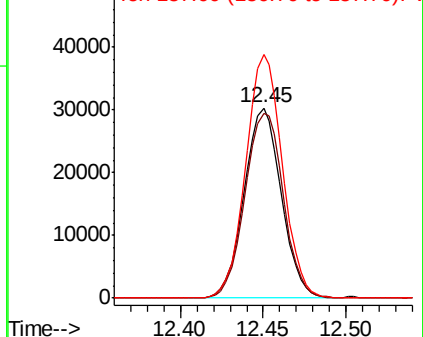
157 128.2 97.2 145.8

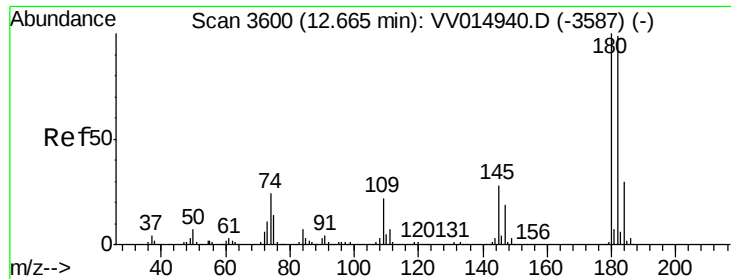


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

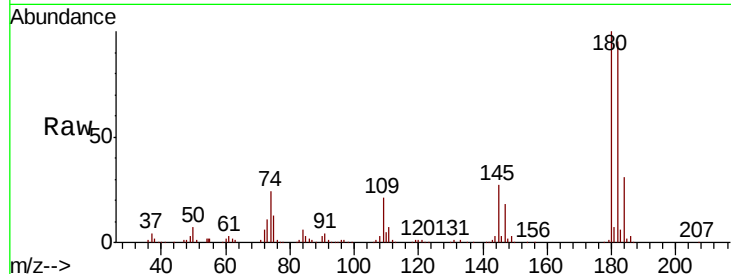




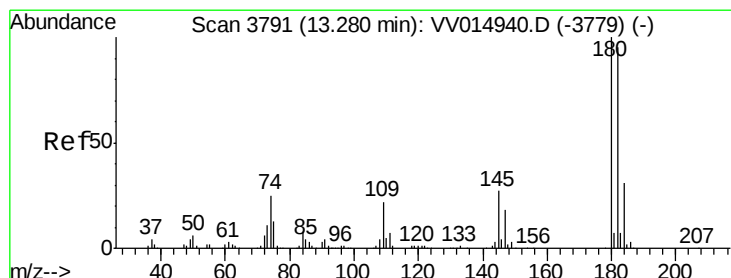
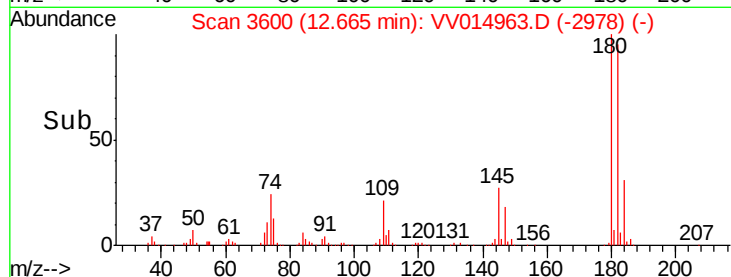
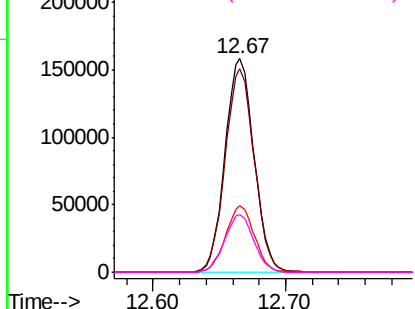
#67
 1,3,5-Trichlorobenzene
 Concen: 46.979 ug/L
 RT: 12.67 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VV014963.D
 Acq: 16 Mar 2020 22:09

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05093

Tot Ion:	180	Resp:	240294
Ion	Ratio	Lower	Upper
180	100		
182	95.7	75.7	113.5
184	30.8	24.2	36.4
145	27.1	22.0	33.0

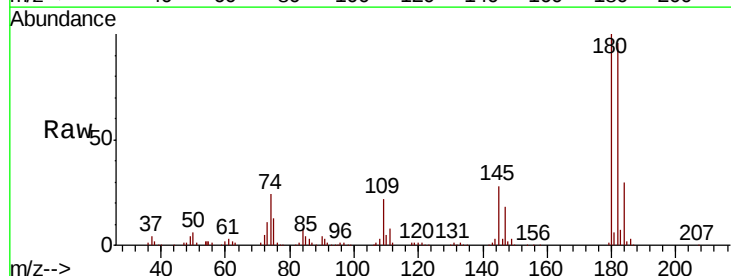


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

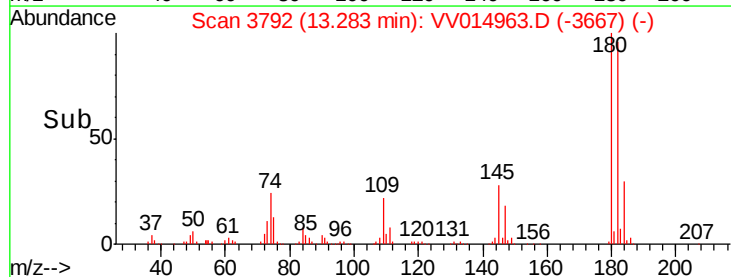
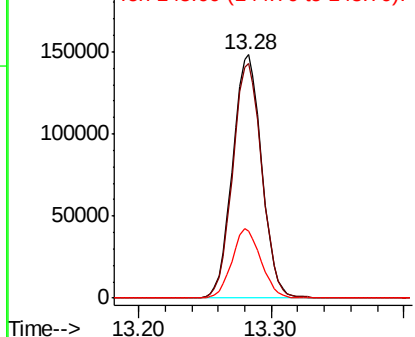


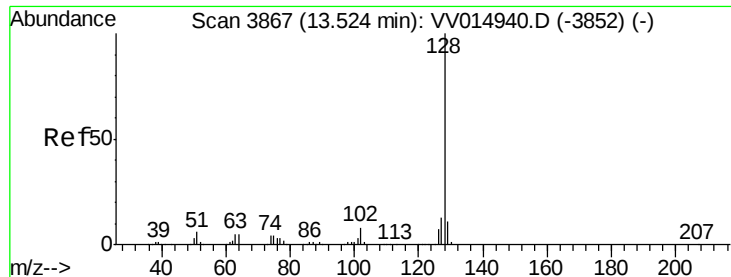
#68
 1,2,4-trichlorobenzene
 Concen: 49.623 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.00 min
 Lab File: VV014963.D
 Acq: 16 Mar 2020 22:09

Tgt Ion:	180	Resp:	226230
Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.3	114.5
145	28.3	23.1	34.7



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





#69

Naphthalene

Concen: 50.769 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. 0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD05093

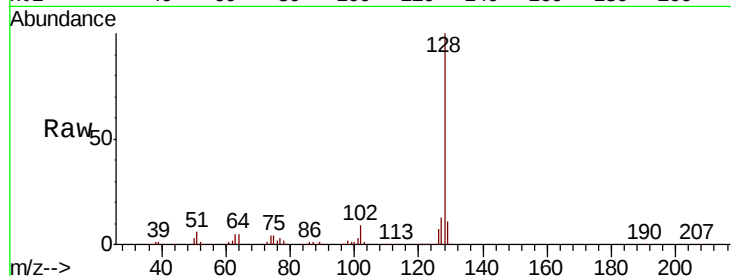
Tot Ion:128 Resp: 297320

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.4

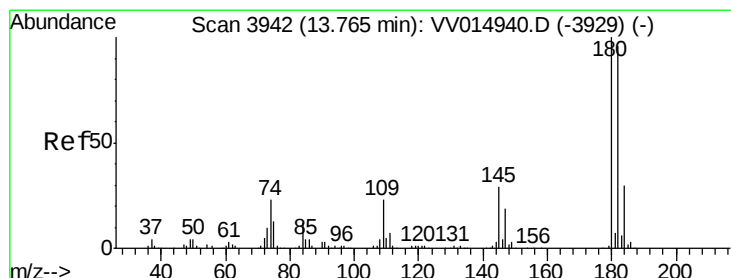
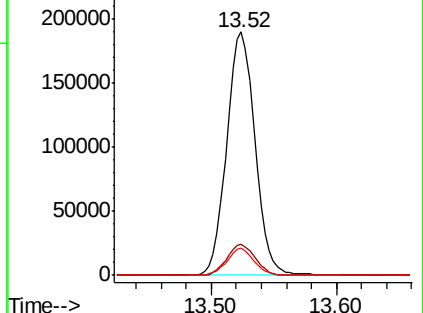
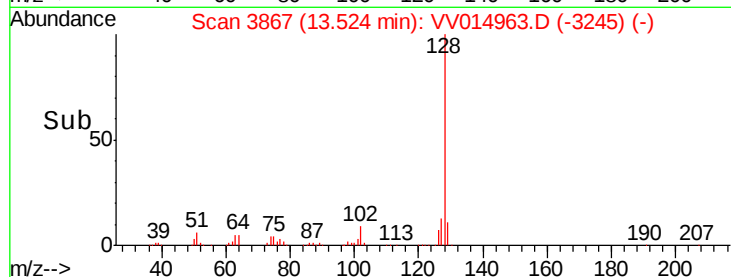
129 10.6 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 49.877 ug/L

RT: 13.77 min Scan# 3942

Delta R.T. 0.00 min

Lab File: VV014963.D

Acq: 16 Mar 2020 22:09

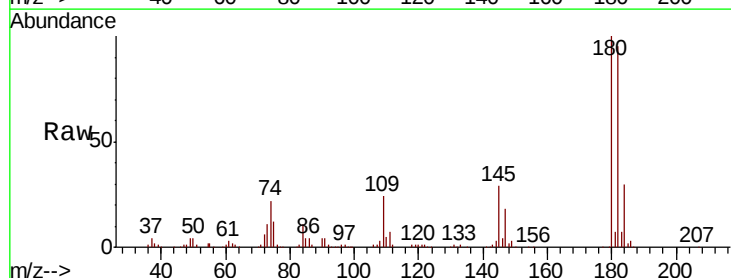
Tgt Ion:180 Resp: 225089

Ion Ratio Lower Upper

180 100

182 95.7 76.2 114.4

145 29.4 24.1 36.1



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

