

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV122719\
 Data File : VV014191.D
 Acq On : 27 Dec 2019 14:42
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00540

Quant Time: Dec 28 00:55:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR122719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Dec 28 00:45:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	831876	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	757340	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	350878	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	173168	4.44	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.80%
7) Chloroethane-d5	1.58	69	143486	4.42	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.40%
11) 1,1-Dichloroethene-d2	2.13	63	324158	4.63	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.60%
20) 2-Butanone-d5	3.95	46	437218	45.18	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	90.36%
24) Chloroform-d	4.40	84	433965	4.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.80%
26) 1,2-Dichloroethane-d4	5.08	65	214058	4.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.80%
32) Benzene-d6	5.10	84	930408	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.00%
36) 1,2-Dichloropropane-d6	6.11	67	281698	4.50	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.00%
41) Toluene-d8	7.36	98	868355	4.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.80%
43) trans-1,3-Dichloropropene-	7.66	79	122920	4.39	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.80%
46) 2-Hexanone-d5	8.13	63	483301	45.48	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.96%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	200489	4.49	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	89.80%
64) 1,2-Dichlorobenzene-d4	11.67	152	291691	4.64	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	306290	4.855	ug/L 99
3) Chloromethane	1.25	50	272475	4.766	ug/L 99
5) Vinyl chloride	1.32	62	262721	4.840	ug/L 98
6) Bromomethane	1.53	94	122998	4.893	ug/L 99
8) Chloroethane	1.60	64	140991	4.874	ug/L 97
9) Trichlorofluoromethane	1.77	101	340569	4.884	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	191658	5.092	ug/L 96
12) 1,1-Dichloroethene	2.14	96	178442	4.856	ug/L 94
13) Acetone	2.21	43	240487	40.287	ug/L 94
14) Carbon disulfide	2.32	76	752981	4.682	ug/L 99
15) Methyl Acetate	2.47	43	106904	5.408	ug/L 91
16) Methylene chloride	2.53	84	270574	4.368	ug/L 96
17) Methyl tert-butyl Ether	2.80	73	632474	4.648	ug/L 99
18) trans-1,2-Dichloroethene	2.79	96	271616	4.731	ug/L 98
19) 1,1-Dichloroethane	3.23	63	506401	4.757	ug/L 100
21) 2-Butanone	4.03	43	537842	48.517	ug/L 99
22) cis-1,2-Dichloroethene	3.96	96	298424	4.771	ug/L 99

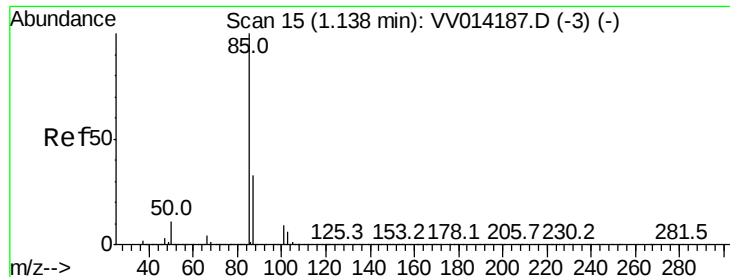
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV122719\
 Data File : VV014191.D
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Dec 28 00:45:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	112654	4.634	ug/L	94
25) Chloroform	4.42	83	510782	4.733	ug/L	99
27) 1,2-Dichloroethane	5.18	62	286834	4.746	ug/L	97
29) 1,1,1-Trichloroethane	4.66	97	454038	4.940	ug/L	99
30) Cyclohexane	4.72	56	503700	5.011	ug/L	99
31) Carbon tetrachloride	4.87	117	386801	4.929	ug/L	99
33) Benzene	5.14	78	1127340	4.812	ug/L	100
34) Trichloroethene	5.96	95	305541	4.869	ug/L	99
35) Methylcyclohexane	6.17	83	522416	4.996	ug/L	99
37) 1,2-Dichloropropane	6.22	63	270238	4.749	ug/L	100
38) Bromodichloromethane	6.55	83	367389	4.838	ug/L	97
39) cis-1,3-Dichloropropene	7.07	75	449567	4.828	ug/L	99
40) 4-Methyl-2-pentanone	7.27	43	1665858	47.064	ug/L	98
42) Toluene	7.43	91	1220173	4.742	ug/L	98
44) trans-1,3-Dichloropropene	7.69	75	350607	4.814	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	181811	4.685	ug/L	99
47) Tetrachloroethene	8.01	164	211539	4.822	ug/L	97
48) 2-Hexanone	8.18	43	1176371	48.059	ug/L	99
49) Dibromochloromethane	8.29	129	231627	4.680	ug/L	99
50) 1,2-Dibromoethane	8.39	107	175590	4.707	ug/L	98
51) Chlorobenzene	8.92	112	758574	4.767	ug/L	100
52) Ethylbenzene	9.05	91	1397267	4.891	ug/L	99
53) m,p-xylene	9.18	106	520259	4.846	ug/L	96
54) o-xylene	9.58	106	499350	4.763	ug/L	97
55) Styrene	9.60	104	845598	4.805	ug/L	98
56) Isopropylbenzene	9.97	105	1351887	4.917	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.28	83	222631	4.758	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	159469	4.585	ug/L	98
61) Bromoform	9.77	173	121849	4.758	ug/L	98
62) 1,3-Dichlorobenzene	11.22	146	574419	4.946	ug/L	98
63) 1,4-Dichlorobenzene	11.31	146	567158	4.885	ug/L	98
65) 1,2-Dichlorobenzene	11.68	146	511267	4.802	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.47	75	38805	4.426	ug/L	93
67) 1,3,5-Trichlorobenzene	12.69	180	414453	4.901	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	369512	4.981	ug/L	99
69) Naphthalene	13.55	128	665065	4.923	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	319275	4.931	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 4.855 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV014191.D

Acq: 27 Dec 2019 14:42

Instrument :

MSVOA_V

ClientSampleId :

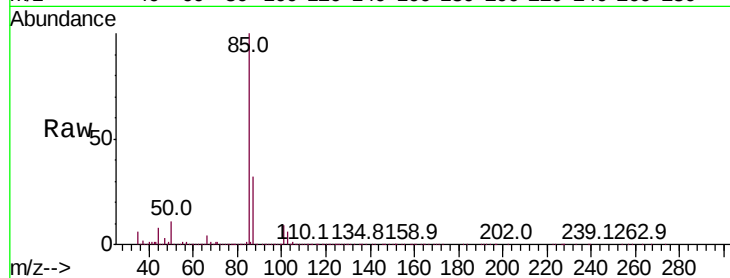
VSTD00540

Tot Ion: 85 Resp: 306290

Ion Ratio Lower Upper

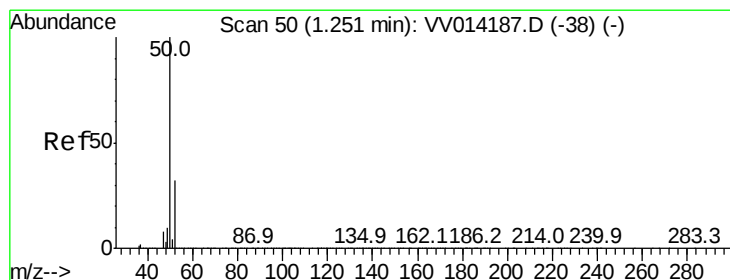
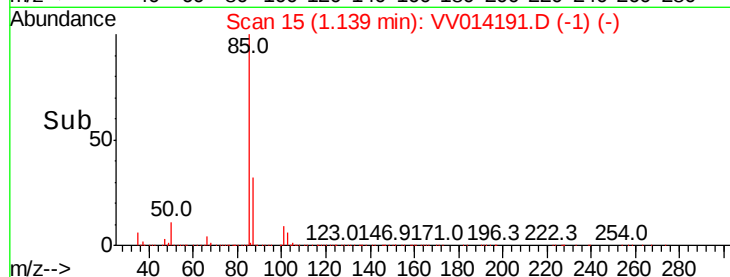
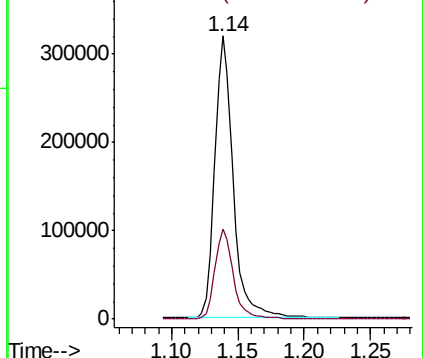
85 100

87 32.1 25.1 37.7



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 4.766 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV014191.D

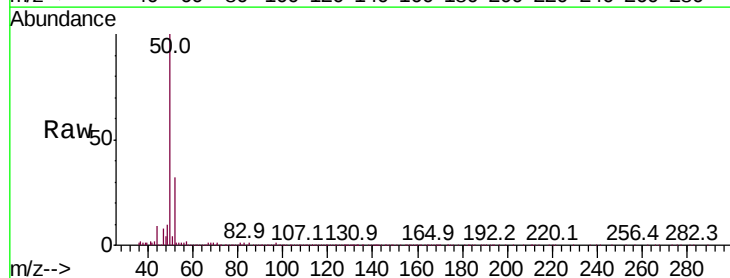
Acq: 27 Dec 2019 14:42

Tgt Ion: 50 Resp: 272475

Ion Ratio Lower Upper

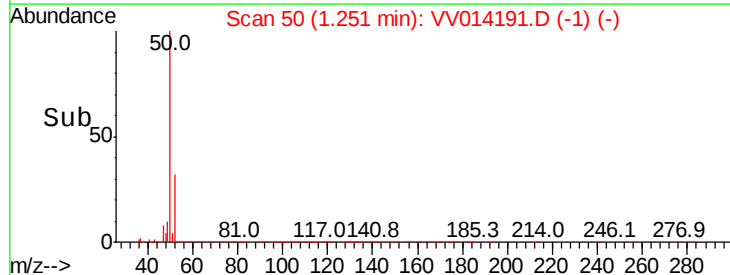
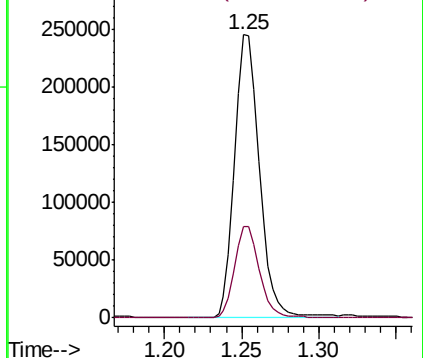
50 100

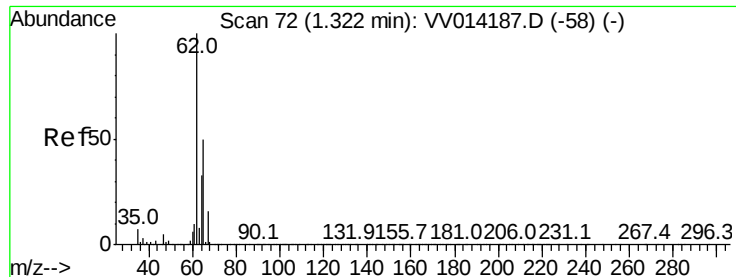
52 32.4 22.3 41.3



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 4.840 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV014191.D

Acq: 27 Dec 2019 14:42

Instrument :

MSVOA_V

ClientSampleId :

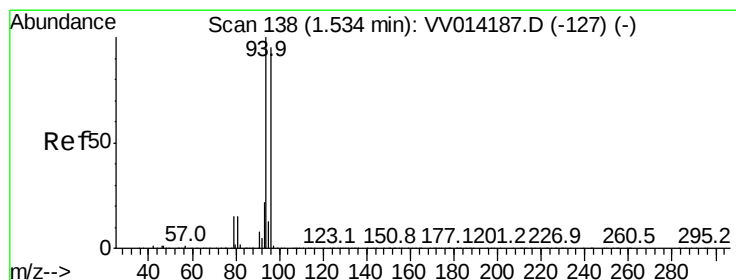
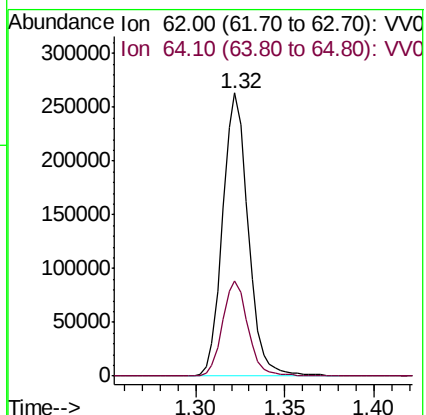
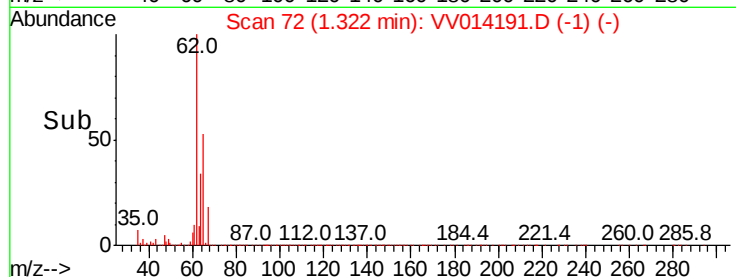
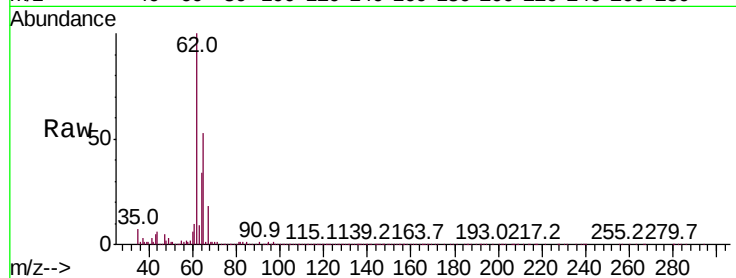
VSTD00540

Tot Ion: 62 Resp: 262721

Ion Ratio Lower Upper

62 100

64 33.8 23.0 42.6



#6

Bromomethane

Concen: 4.893 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV014191.D

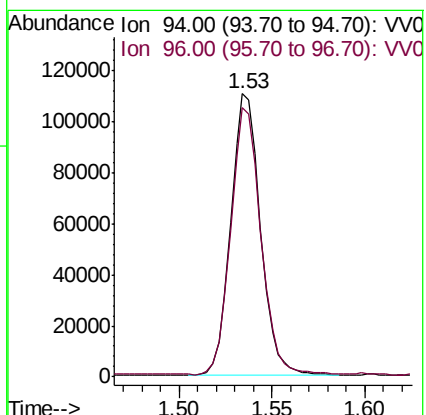
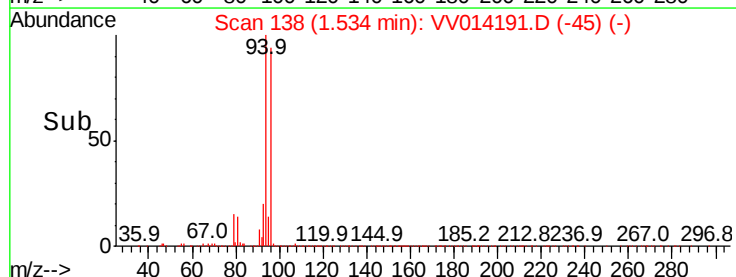
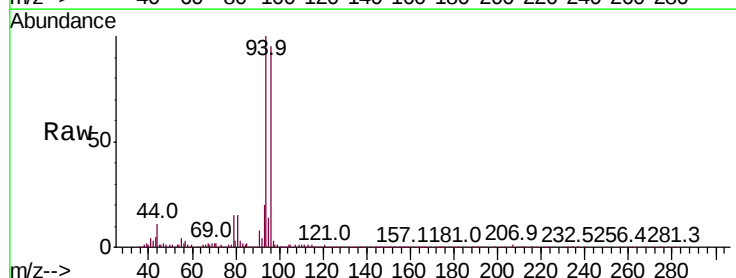
Acq: 27 Dec 2019 14:42

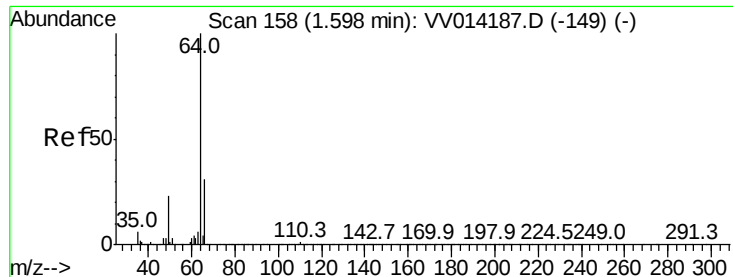
Tgt Ion: 94 Resp: 122998

Ion Ratio Lower Upper

94 100

96 95.0 66.9 124.3

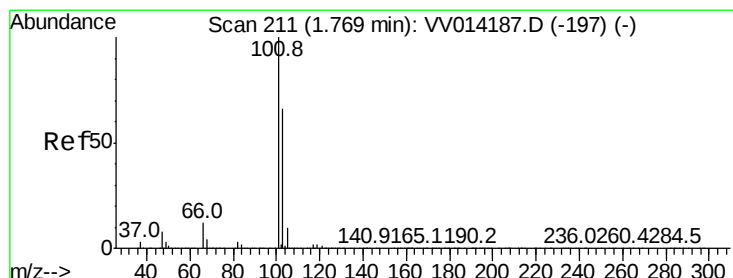
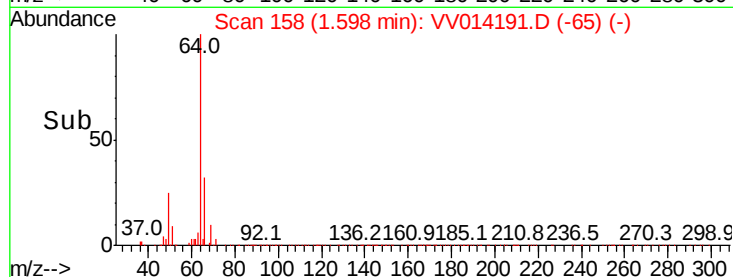
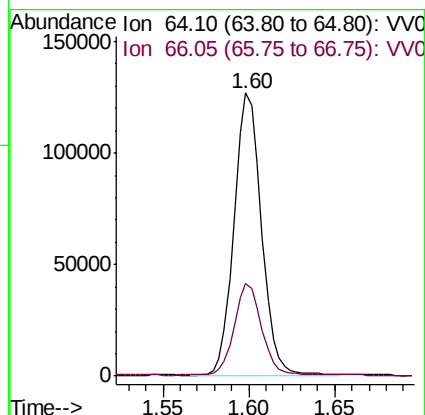
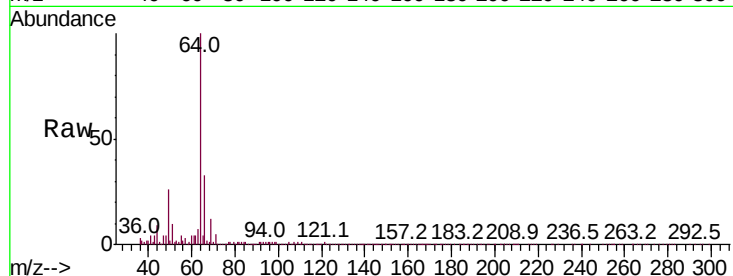




#8
Chloroethane
Concen: 4.874 ug/L
RT: 1.60 min Scan# 158
Delta R.T. 0.00 min
Lab File: VV014191.D
Acq: 27 Dec 2019 14:42

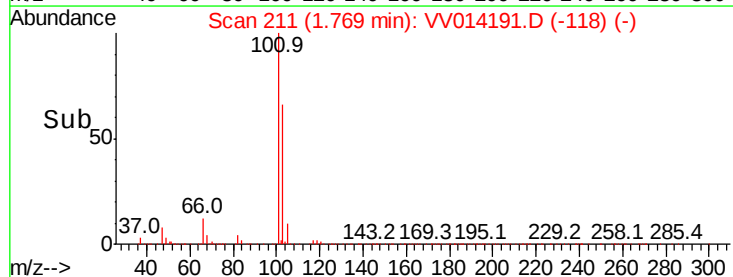
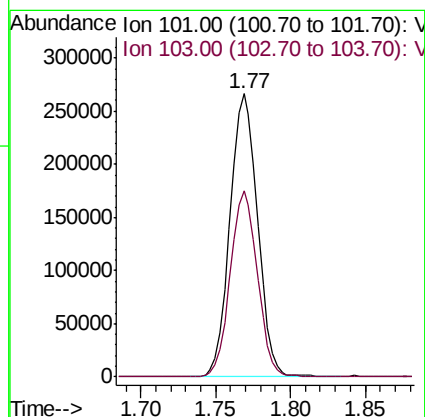
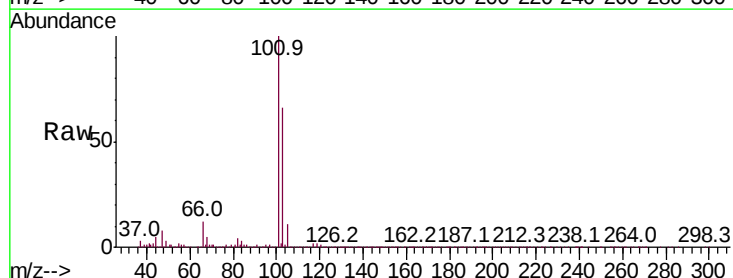
Instrument :
MSVOA_V
ClientSampleId :
VSTD00540

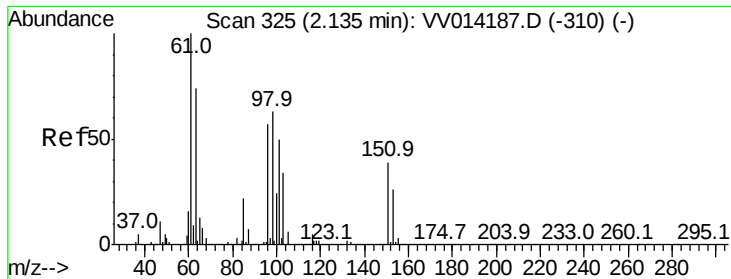
Tot Ion: 64 Resp: 140991
Ion Ratio Lower Upper
64 100
66 32.7 21.8 40.6



#9
Trichlorofluoromethane
Concen: 4.884 ug/L
RT: 1.77 min Scan# 211
Delta R.T. 0.00 min
Lab File: VV014191.D
Acq: 27 Dec 2019 14:42

Tgt Ion: 101 Resp: 340569
Ion Ratio Lower Upper
101 100
103 64.5 52.6 78.8





#10

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

Concen: 5.092 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV014191.D

Acq: 27 Dec 2019 14:42

Instrument :

MSVOA_V

ClientSampleId :

VSTD00540

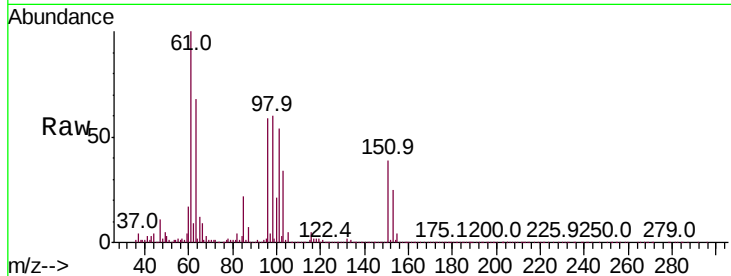
Tot Ion:101 Resp: 191658

Ion Ratio Lower Upper

101 100

85 40.5 34.9 52.3

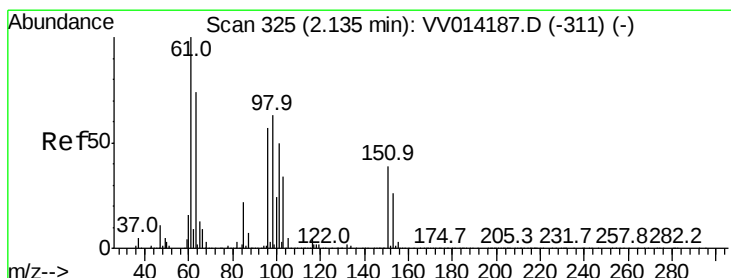
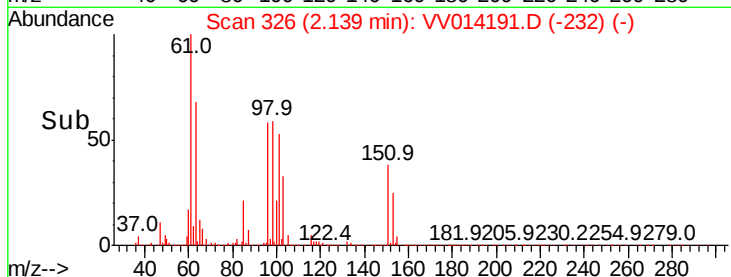
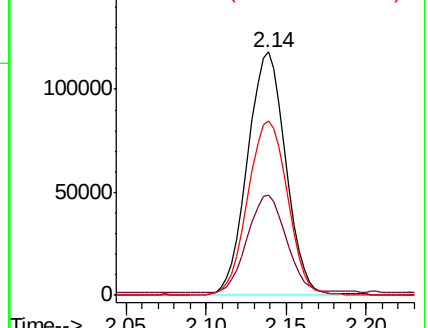
151 74.5 62.5 93.7



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: 4.856 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV014191.D

Acq: 27 Dec 2019 14:42

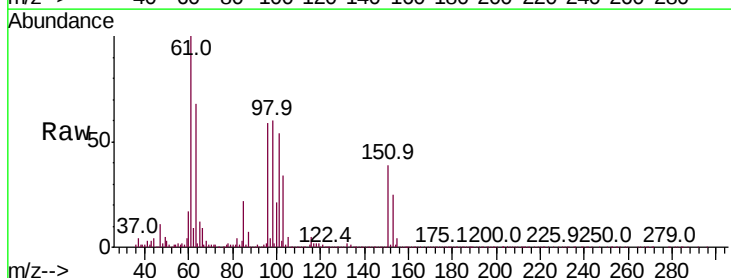
Tgt Ion: 96 Resp: 178442

Ion Ratio Lower Upper

96 100

61 170.5 121.5 225.7

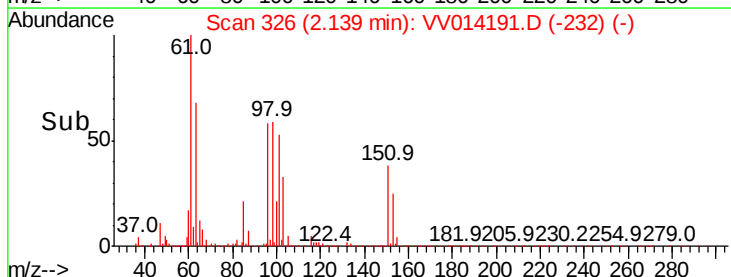
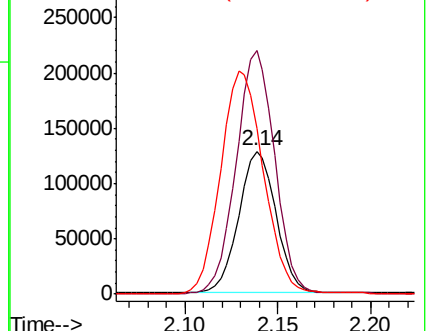
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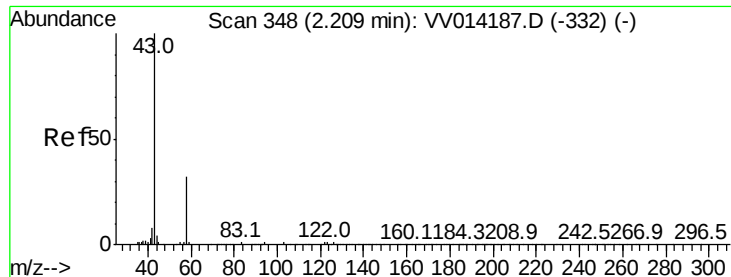


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 40.287 ug/L

RT: 2.21 min Scan# 347

Delta R.T. -0.00 min

Lab File: VV014191.D

Acq: 27 Dec 2019 14:42

Instrument :

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ClientSampleId :

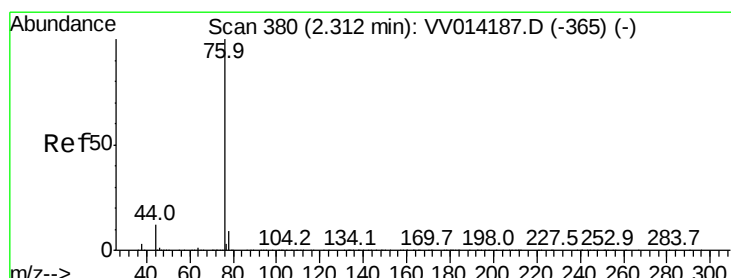
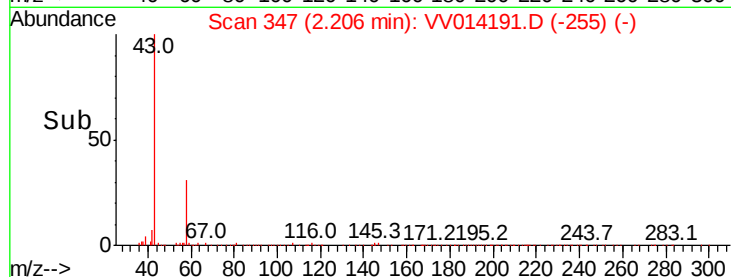
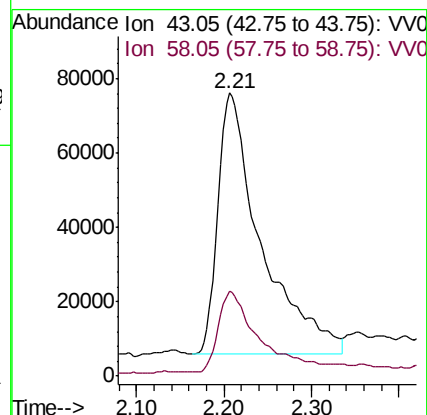
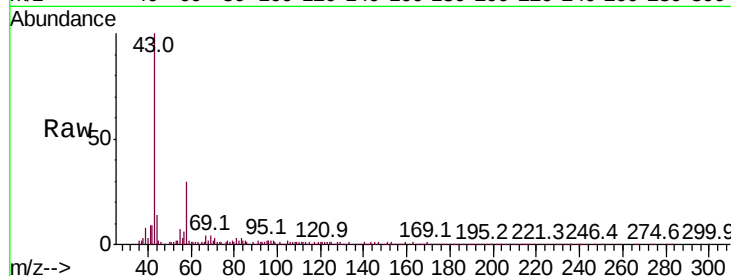
VSTD00540

Tot Ion: 43 Resp: 240487

Ion Ratio Lower Upper

43 100

58 29.5 0.0 66.0



#14

Carbon disulfide

Concen: 4.682 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV014191.D

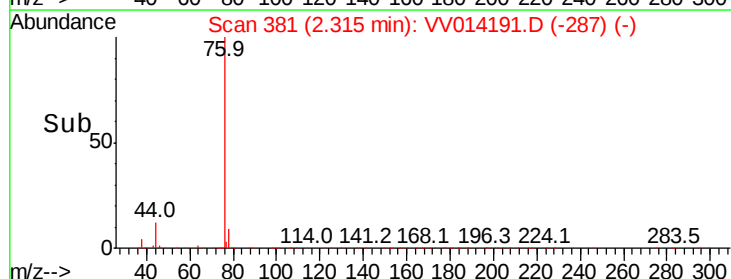
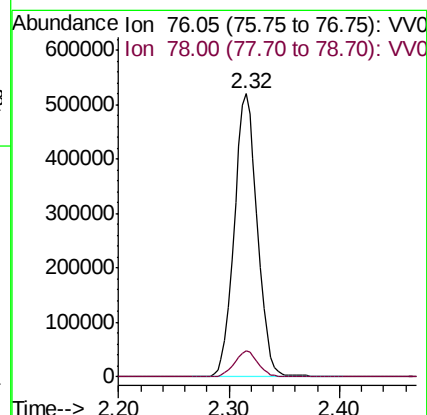
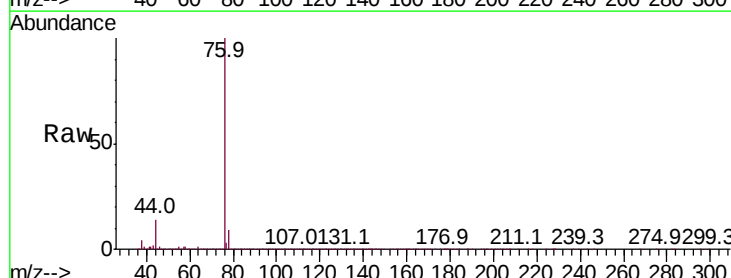
Acq: 27 Dec 2019 14:42

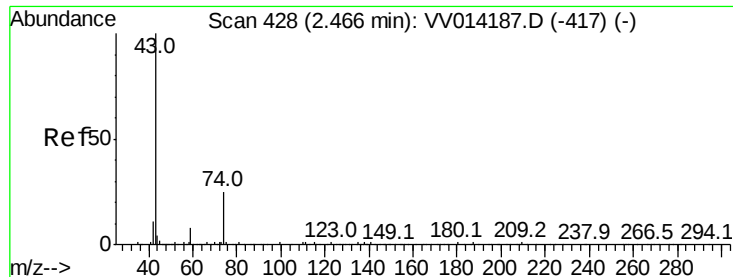
Tgt Ion: 76 Resp: 752981

Ion Ratio Lower Upper

76 100

78 9.1 7.5 11.3

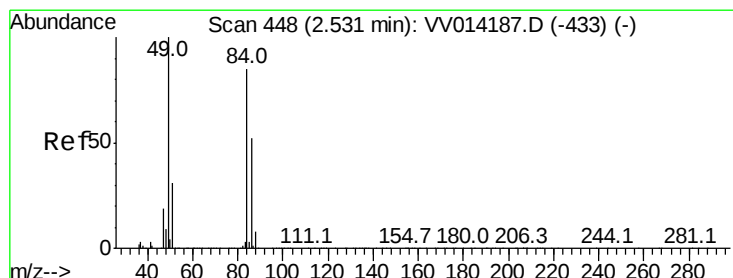
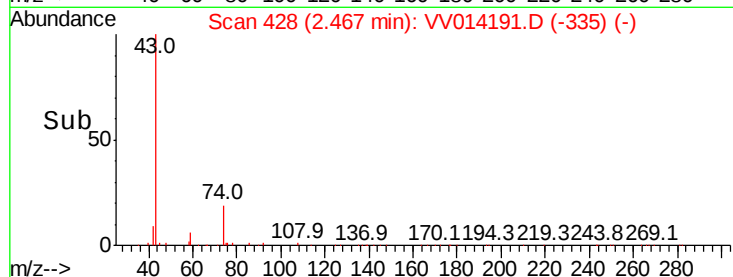
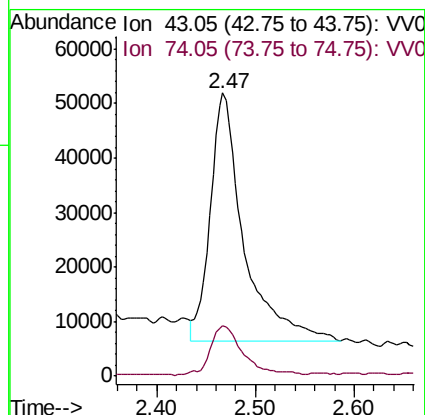
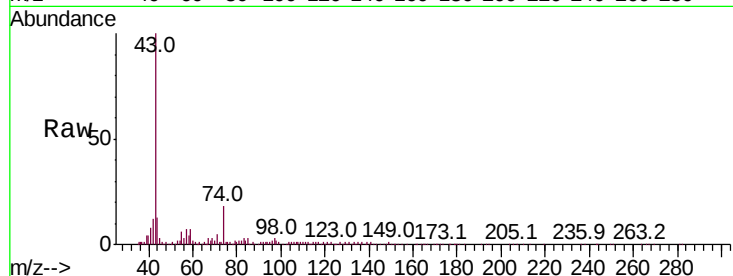




#15
Methyl Acetate
Concen: 5.408 ug/L
RT: 2.47 min Scan# 428
Delta R.T. 0.00 min
Lab File: VV014191.D
Acq: 27 Dec 2019 14:42

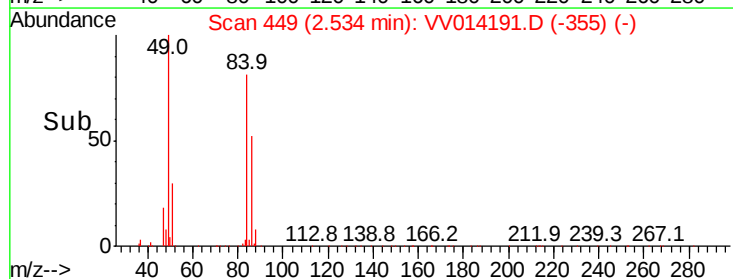
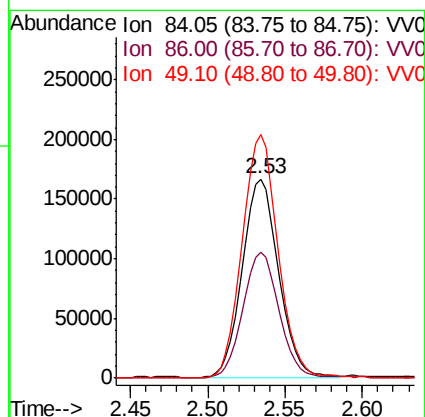
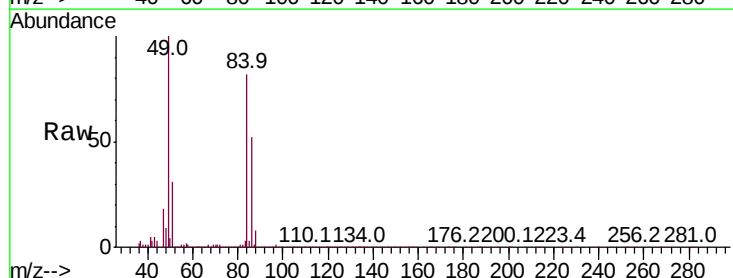
Instrument :
MSVOA_V
ClientSampleId :
VSTD00540

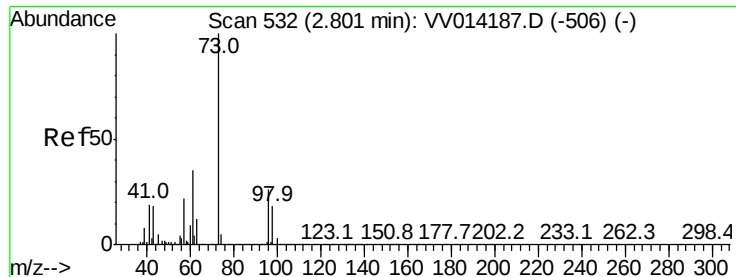
Tot Ion: 43 Resp: 106904
Ion Ratio Lower Upper
43 100
74 18.7 18.6 28.0



#16
Methylene chloride
Concen: 4.368 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV014191.D
Acq: 27 Dec 2019 14:42

Tgt Ion: 84 Resp: 270574
Ion Ratio Lower Upper
84 100
86 63.3 43.1 80.1
49 122.3 82.1 152.5



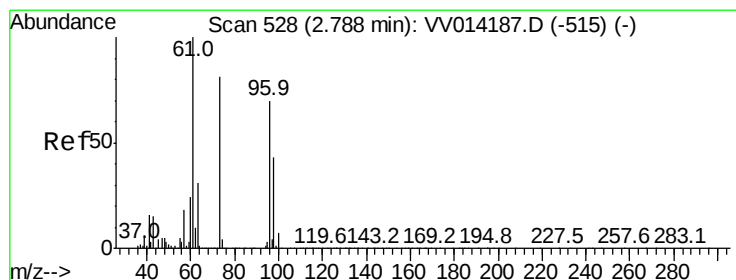
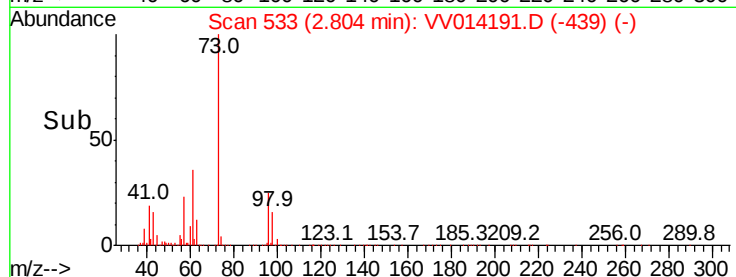
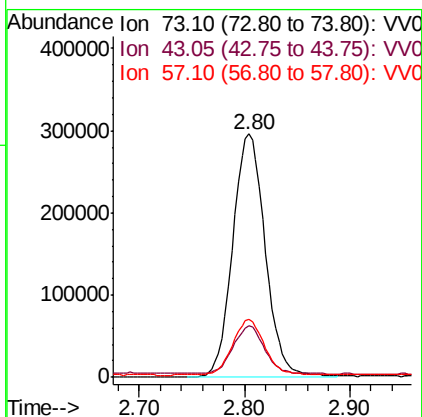
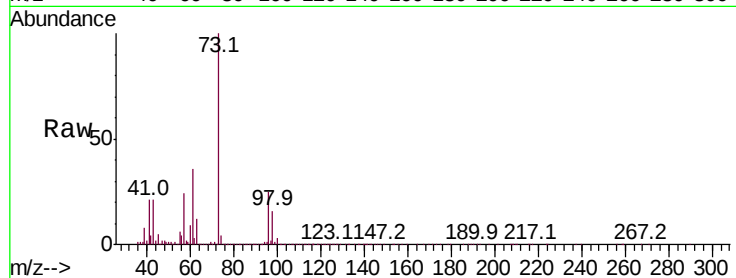


#17

Methvl tert-butvl Ether
 Concen: 4.648 ug/L
 RT: 2.80 min Scan# 533
 Delta R.T. 0.00 min
 Lab File: VV014191.D
 Acq: 27 Dec 2019 14:42

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00540

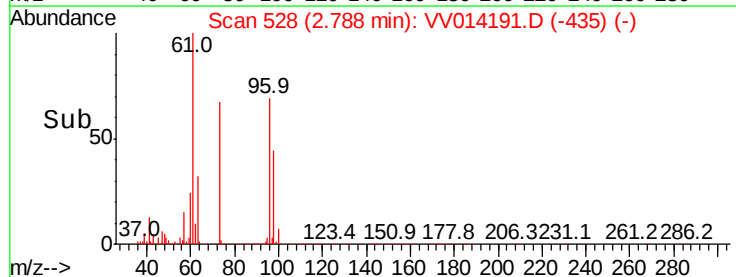
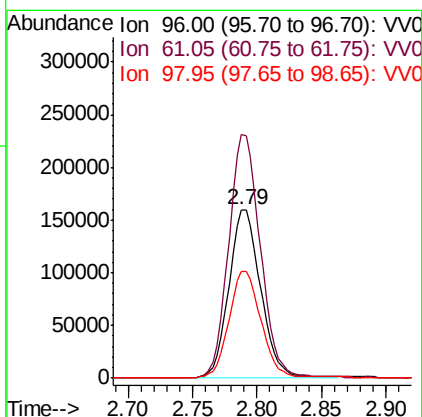
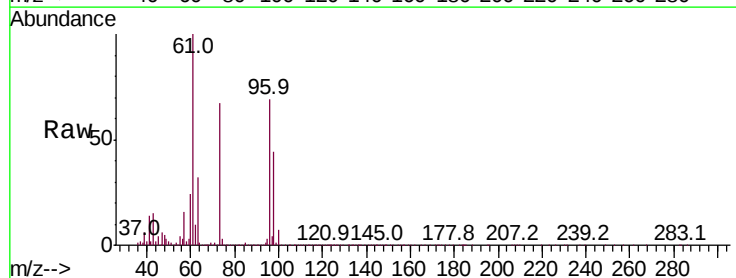
Tot Ion	Ratio	Lower	Upper
73	100		
43	19.5	14.7	22.1
57	22.3	17.9	26.9

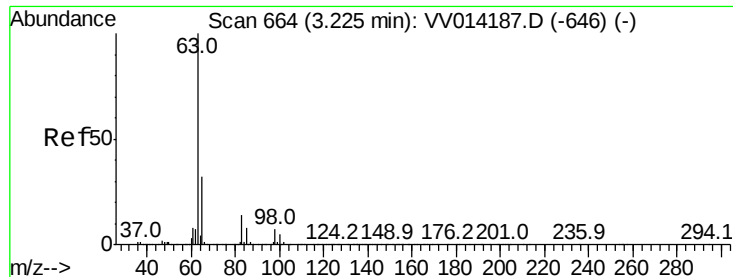


#18

trans-1,2-Dichloroethene
 Concen: 4.731 ug/L
 RT: 2.79 min Scan# 528
 Delta R.T. 0.00 min
 Lab File: VV014191.D
 Acq: 27 Dec 2019 14:42

Tgt Ion	Ratio	Lower	Upper
96	100		
61	144.7	99.2	184.2
98	63.5	43.1	80.1

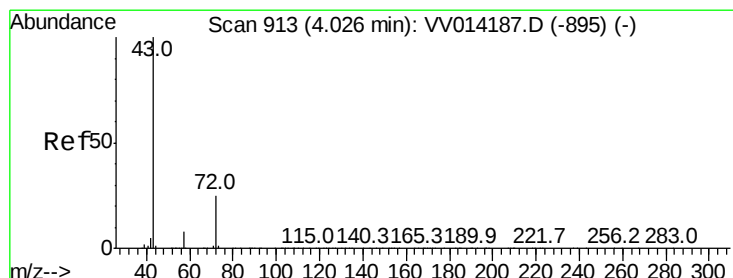
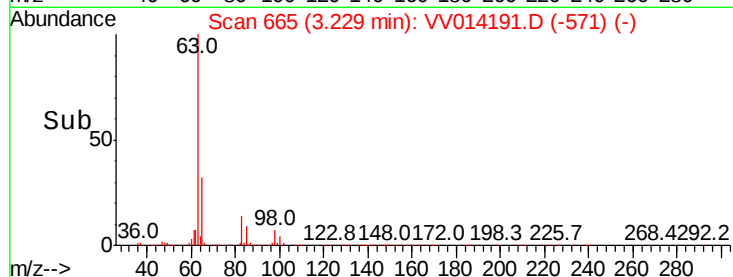
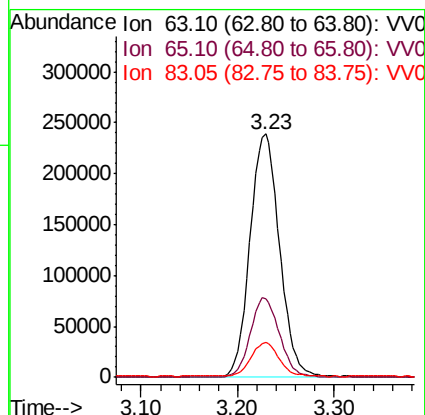
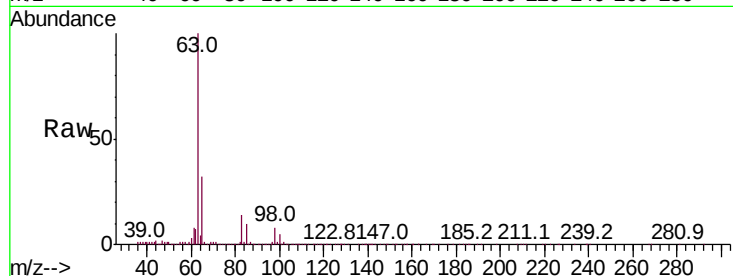




#19
 1,1-Dichloroethane
 Concen: 4.757 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV014191.D
 Acq: 27 Dec 2019 14:42

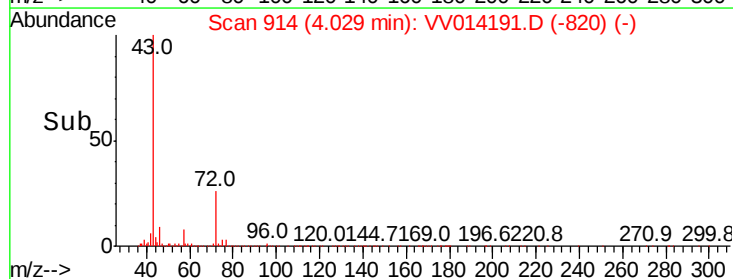
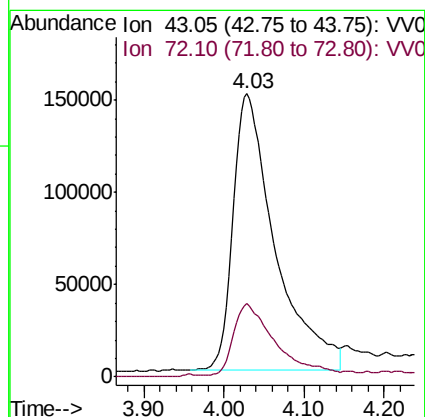
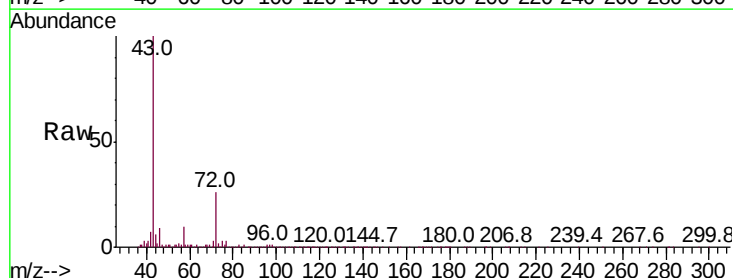
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00540

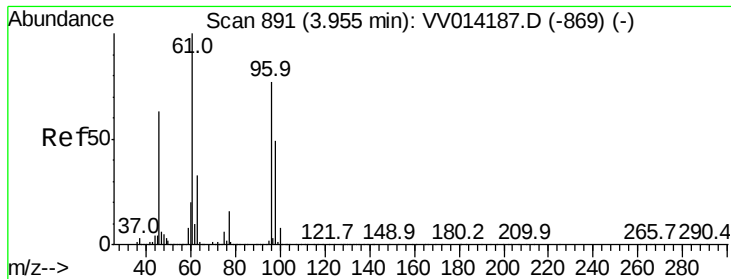
Tot Ion:	63	Resp:	506401
Ion	Ratio	Lower	Upper
63	100		
65	32.5	22.7	42.3
83	14.1	10.0	18.6



#21
 2-Butanone
 Concen: 48.517 ug/L
 RT: 4.03 min Scan# 914
 Delta R.T. 0.00 min
 Lab File: VV014191.D
 Acq: 27 Dec 2019 14:42

Tgt Ion:	43	Resp:	537842
Ion	Ratio	Lower	Upper
43	100		
72	24.4	12.4	37.2



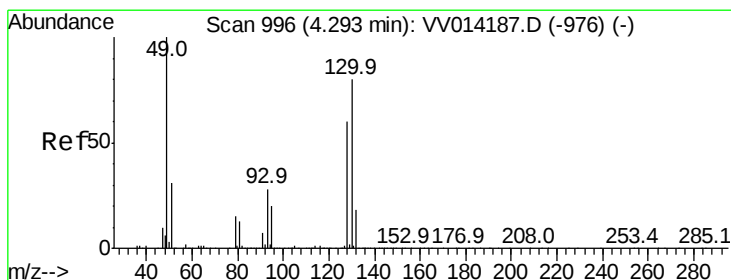
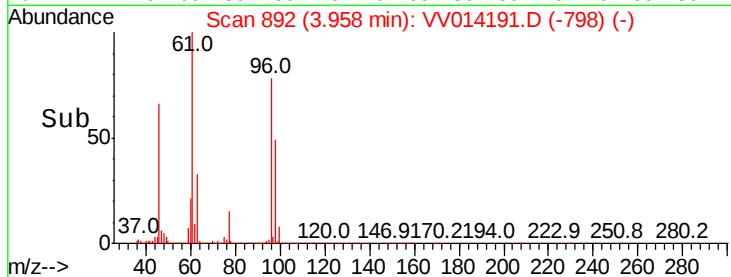
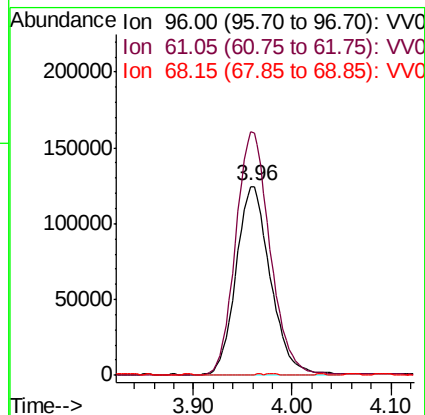
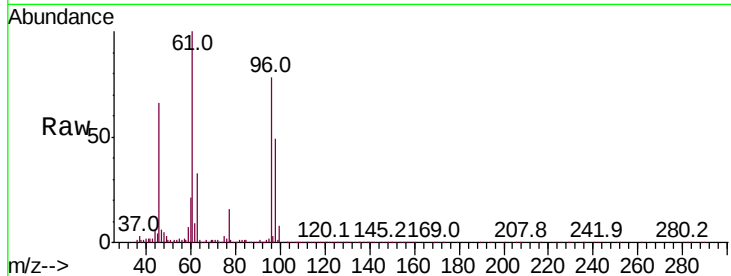


#22

cis-1,2-Dichloroethene
Concen: 4.771 ug/L
RT: 3.96 min Scan# 892
Delta R.T. 0.00 min
Lab File: VV014191.D
Acq: 27 Dec 2019 14:42

Instrument :
MSVOA_V
ClientSampleId :
VSTD00540

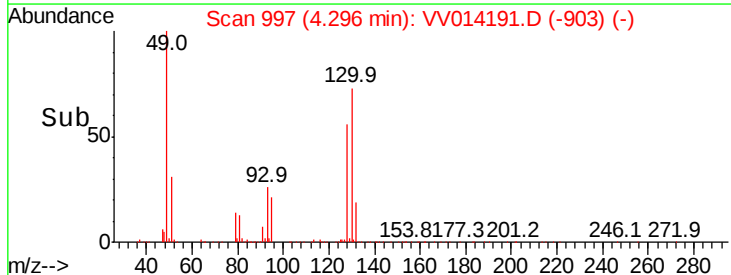
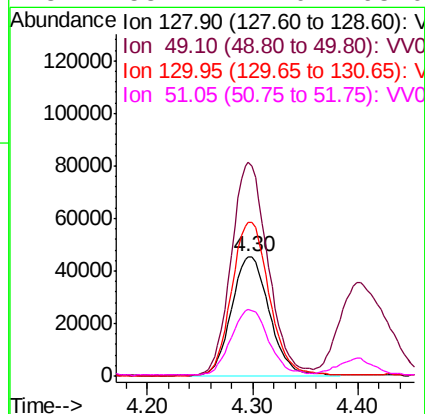
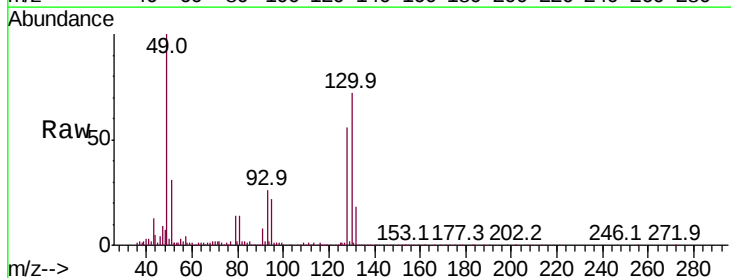
Tot Ion: 96 Resp: 298424
Ion Ratio Lower Upper
96 100
61 128.9 90.6 168.3
68 0.4 0.3 0.7

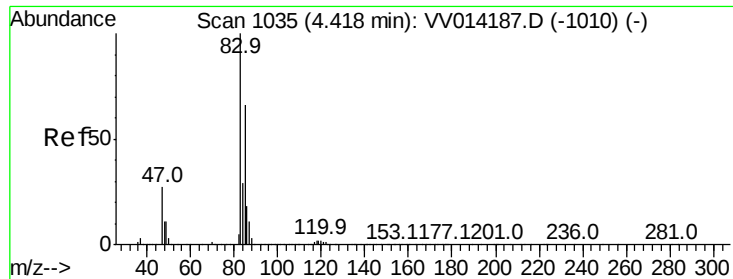


#23

Bromochloromethane
Concen: 4.634 ug/L
RT: 4.30 min Scan# 997
Delta R.T. 0.00 min
Lab File: VV014191.D
Acq: 27 Dec 2019 14:42

Tgt Ion: 128 Resp: 112654
Ion Ratio Lower Upper
128 100
49 178.6 117.5 218.1
130 128.5 93.7 173.9
51 55.4 42.0 63.0

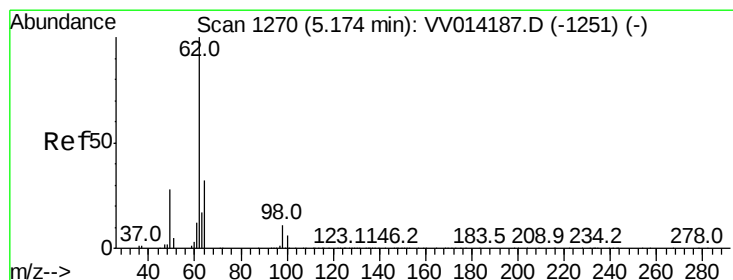
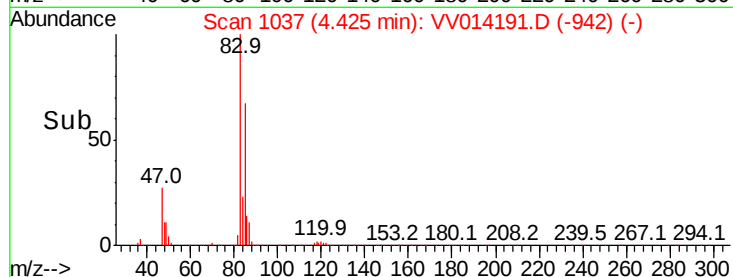
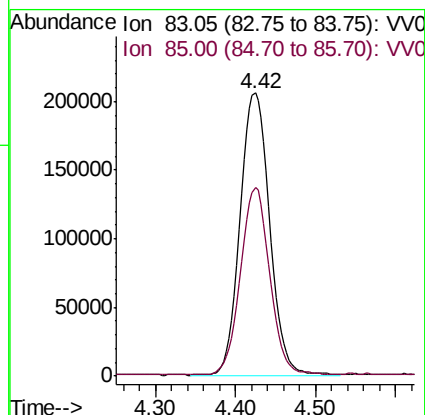
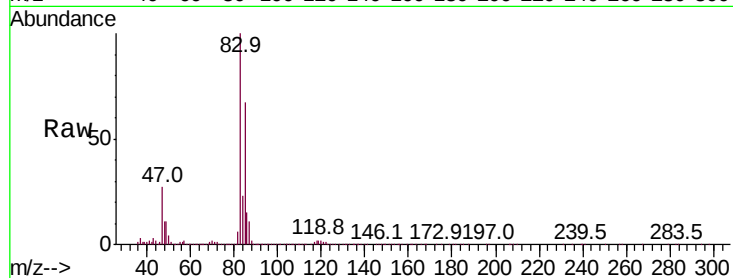




#25
Chloroform
Concen: 4.733 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.01 min
Lab File: VV014191.D
Acq: 27 Dec 2019 14:42

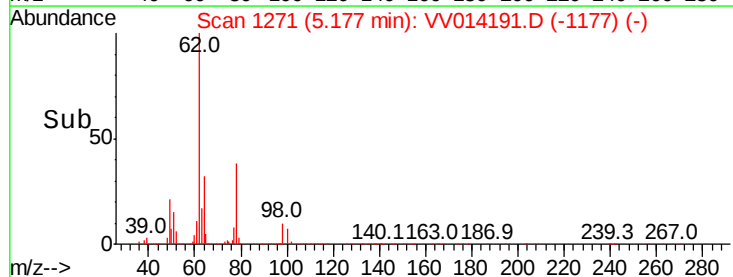
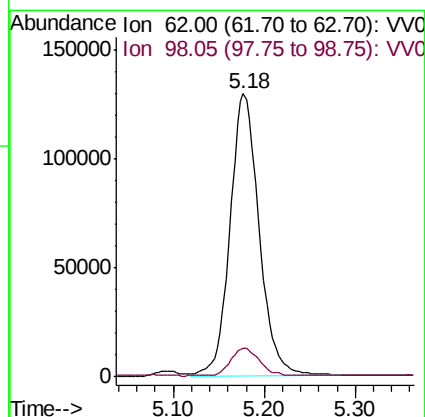
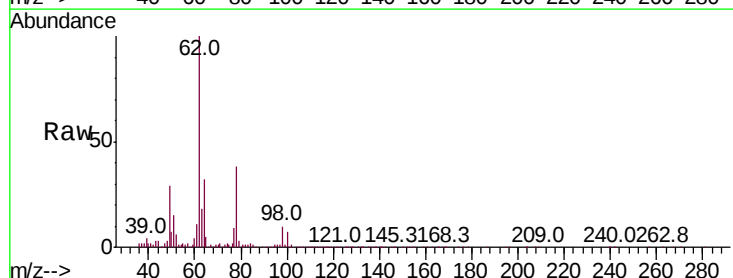
Instrument :
MSVOA_V
ClientSampleId :
VSTD00540

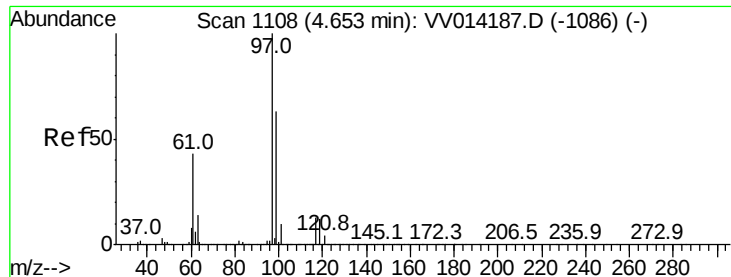
Tot Ion: 83 Resp: 510782
Ion Ratio Lower Upper
83 100
85 66.8 46.2 85.8



#27
1,2-Dichloroethane
Concen: 4.746 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV014191.D
Acq: 27 Dec 2019 14:42

Tgt Ion: 62 Resp: 286834
Ion Ratio Lower Upper
62 100
98 10.2 9.2 13.8

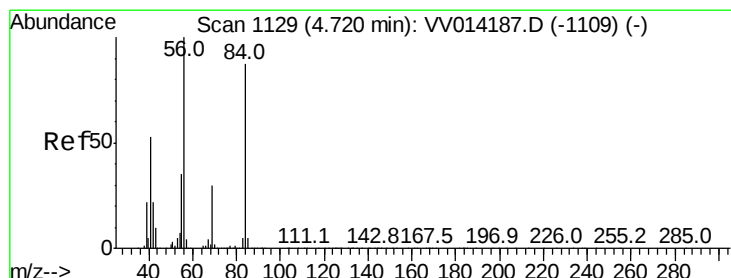
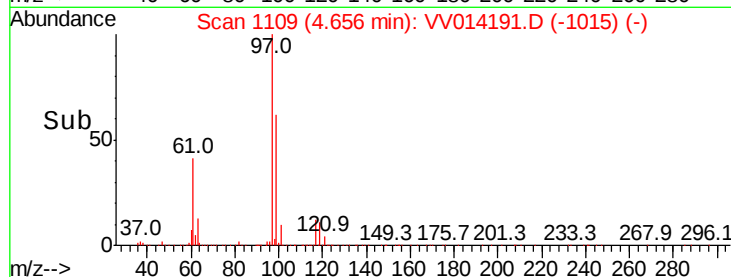
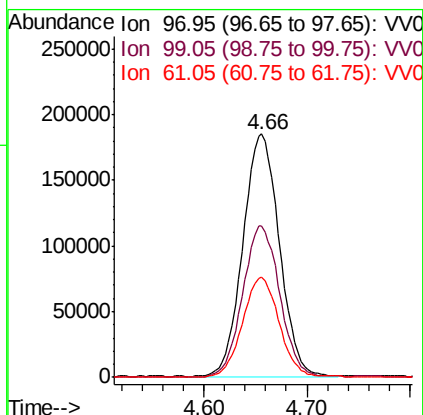
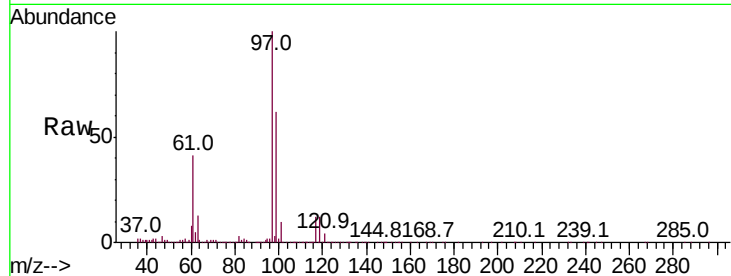




#29
1,1,1-Trichloroethane
Concen: 4.940 ug/L
RT: 4.66 min Scan# 1109
Delta R.T. 0.00 min
Lab File: VV014191.D
Acq: 27 Dec 2019 14:42

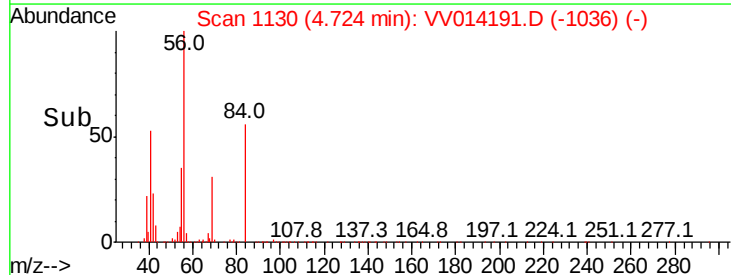
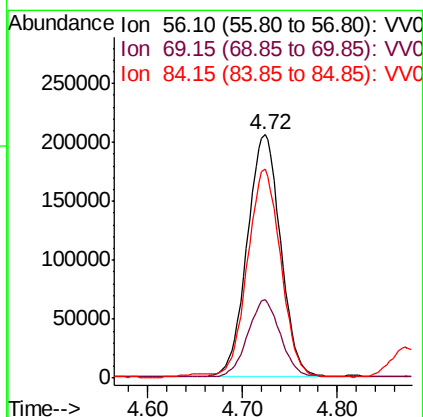
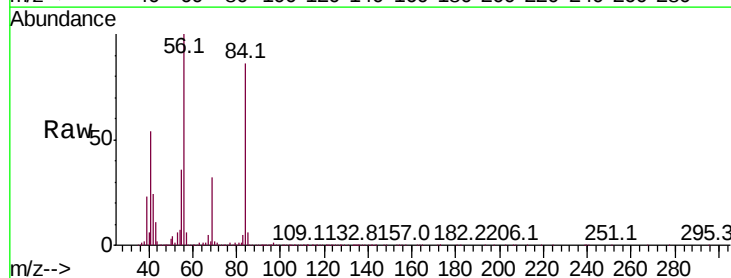
Instrument :
MSVOA_V
ClientSampleId :
VSTD00540

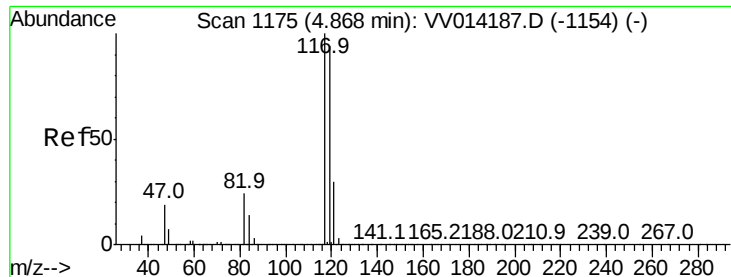
Tot Ion	Ratio	Lower	Upper
97	100		
99	63.1	51.1	76.7
61	41.3	33.9	50.9



#30
Cyclohexane
Concen: 5.011 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. 0.00 min
Lab File: VV014191.D
Acq: 27 Dec 2019 14:42

Tgt Ion	Ratio	Lower	Upper
56	100		
69	30.6	23.9	35.9
84	85.1	68.9	103.3





#31

Carbon tetrachloride

Concen: 4.929 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV014191.D

Acq: 27 Dec 2019 14:42

Instrument :

MSVOA_V

ClientSampleId :

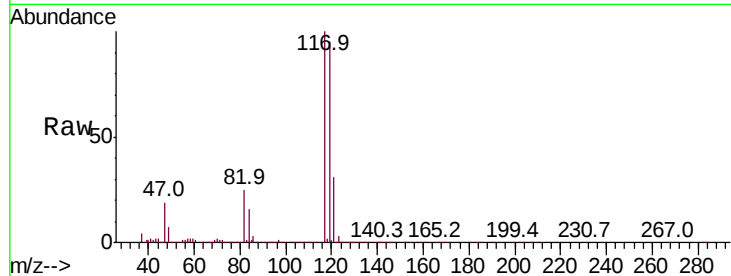
VSTD00540

Tot Ion:117 Resp: 386801

Ion Ratio Lower Upper

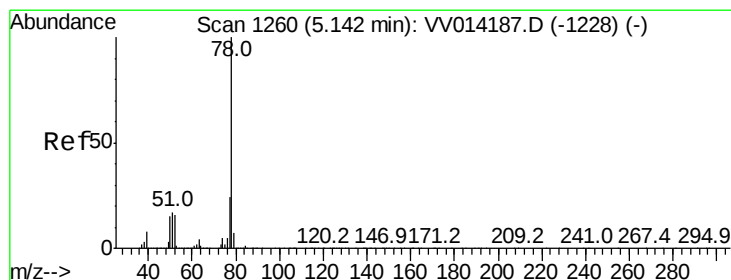
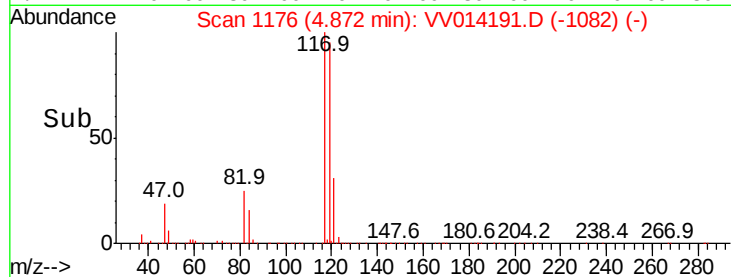
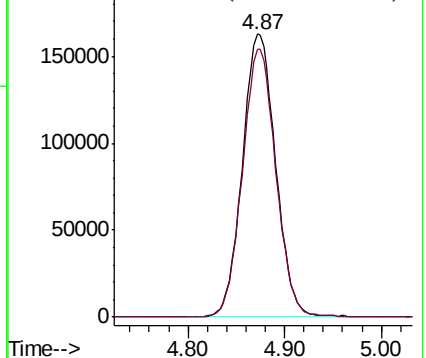
117 100

119 95.4 76.8 115.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.812 ug/L

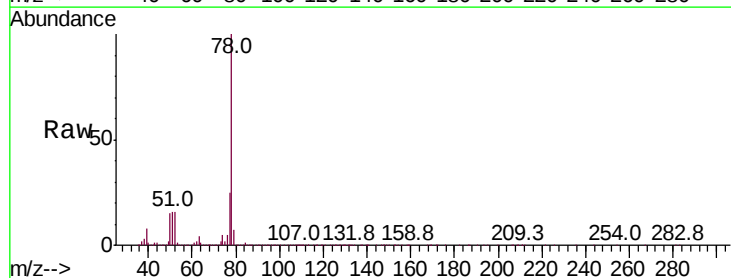
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

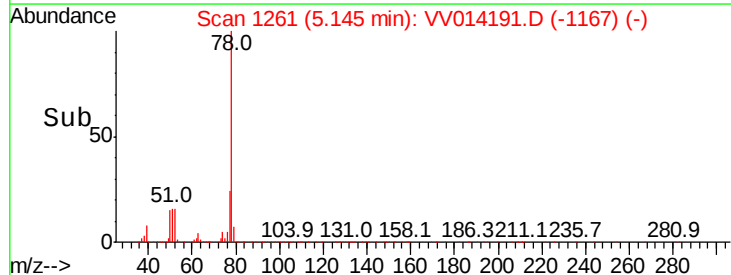
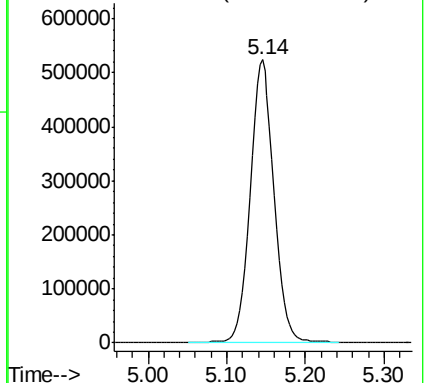
Lab File: VV014191.D

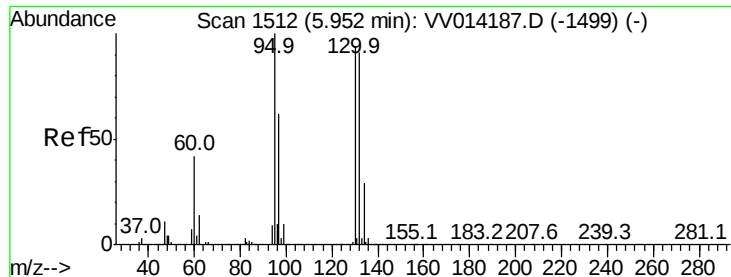
Acq: 27 Dec 2019 14:42

Tgt Ion: 78 Resp: 1127340



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 4.869 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV014191.D

Acq: 27 Dec 2019 14:42

Instrument :

MSVOA_V

ClientSampleId :

VSTD00540

Tot Ion: 95 Resp: 305541

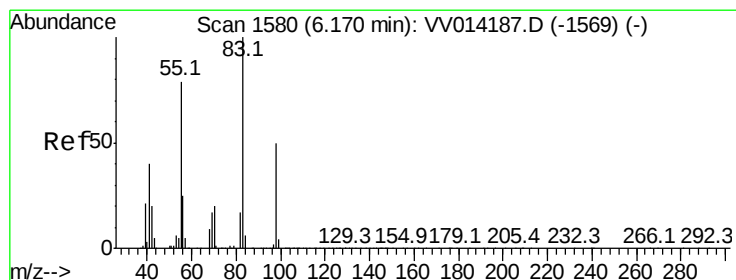
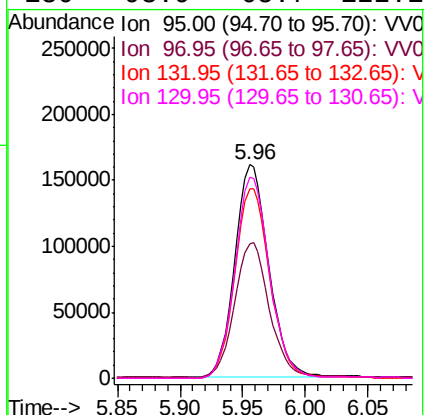
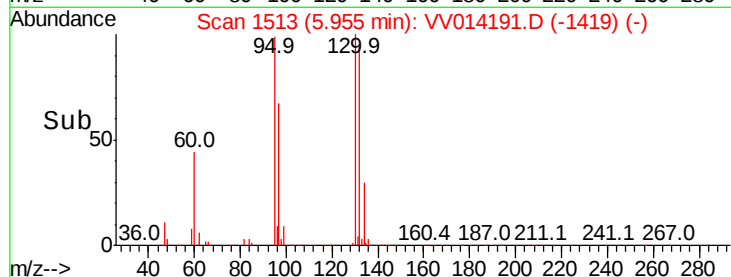
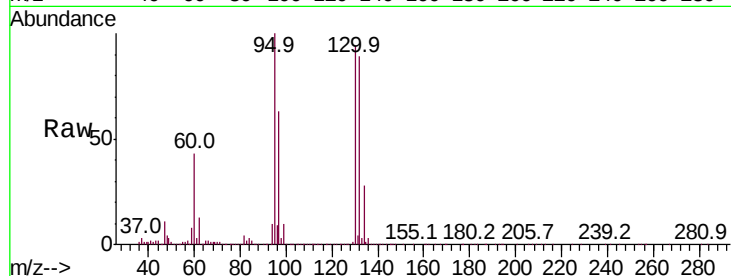
Ion Ratio Lower Upper

95 100

97 63.1 43.8 81.3

132 88.7 63.4 117.8

130 93.9 65.7 122.1



#35

Methylcyclohexane

Concen: 4.996 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV014191.D

Acq: 27 Dec 2019 14:42

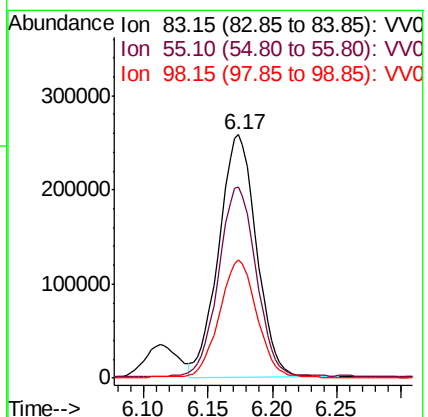
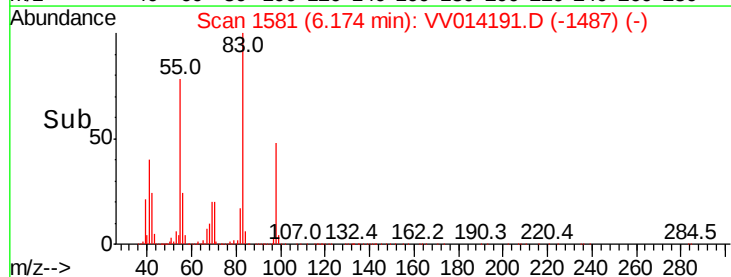
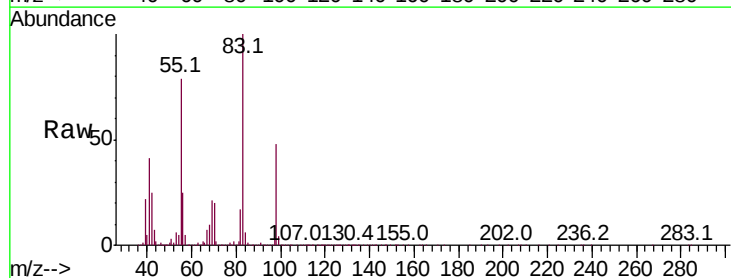
Tgt Ion: 83 Resp: 522416

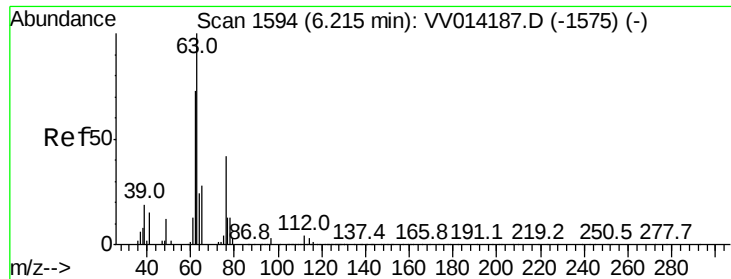
Ion Ratio Lower Upper

83 100

55 78.0 61.7 92.5

98 47.7 38.1 57.1





#37

1,2-Dichloropropane

Concen: 4.749 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

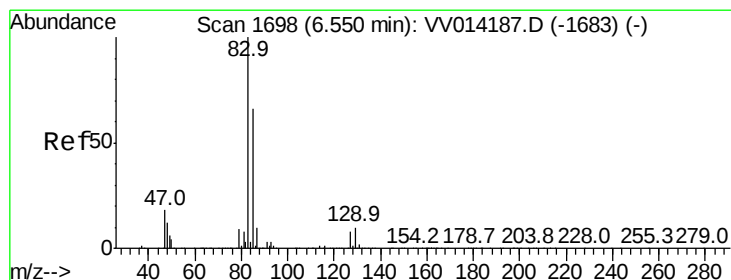
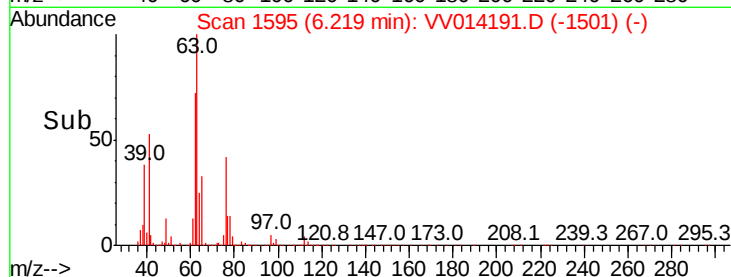
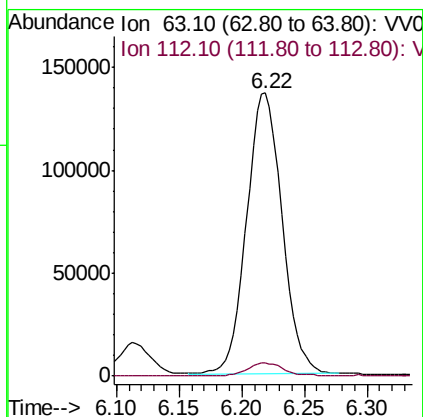
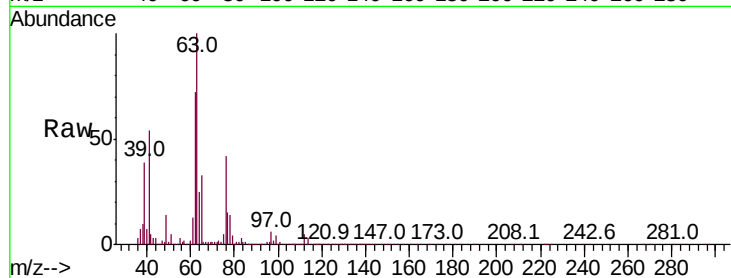
Lab File: VV014191.D

Acq: 27 Dec 2019 14:42

Instrument :
MSVOA_V
ClientSampleId :
VSTD00540

Tot Ion: 63 Resp: 270238

Ion	Ratio	Lower	Upper
63	100		
112	4.6	3.7	5.5



#38

Bromodichloromethane

Concen: 4.838 ug/L

RT: 6.55 min Scan# 1699

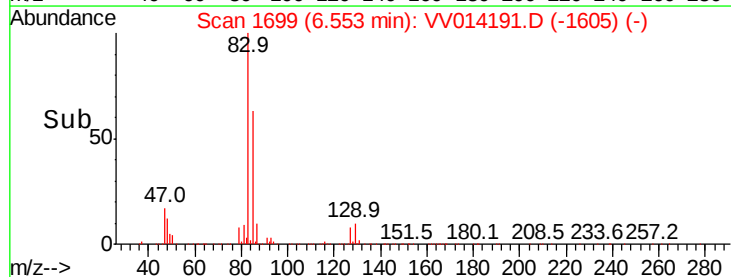
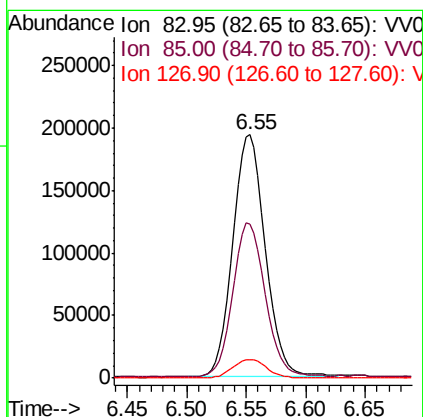
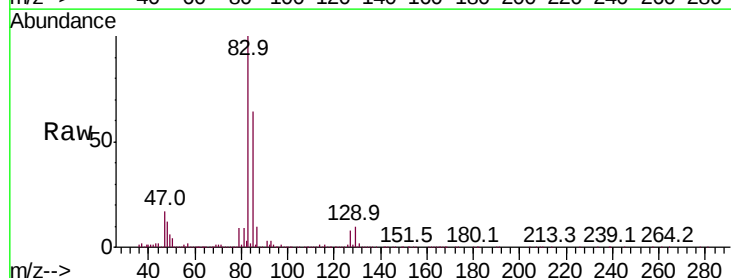
Delta R.T. 0.00 min

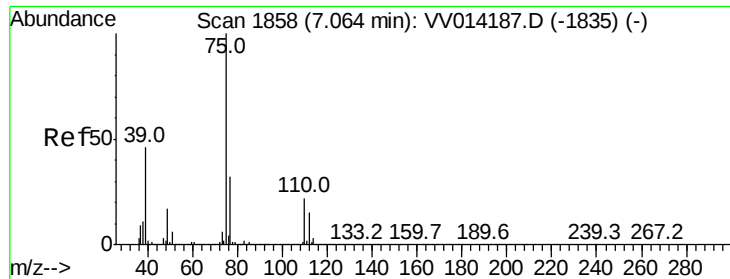
Lab File: VV014191.D

Acq: 27 Dec 2019 14:42

Tgt Ion: 83 Resp: 367389

Ion	Ratio	Lower	Upper
83	100		
85	63.5	46.4	86.2
127	7.7	6.3	9.5





#39

cis-1,3-Dichloropropene

Concen: 4.828 ug/L

RT: 7.07 min Scan# 1859

Delta R.T. 0.00 min

Lab File: VV014191.D

Acq: 27 Dec 2019 14:42

Instrument :

MSVOA_V

ClientSampleId :

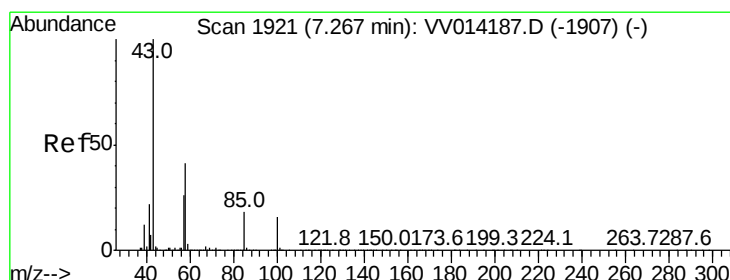
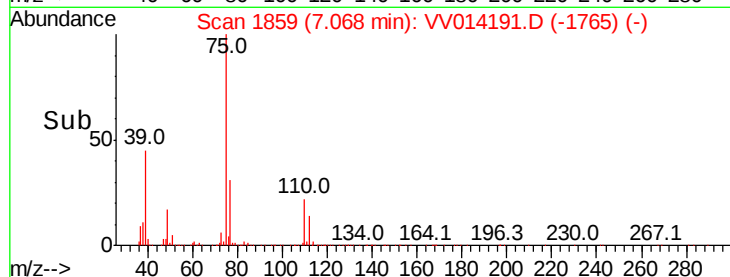
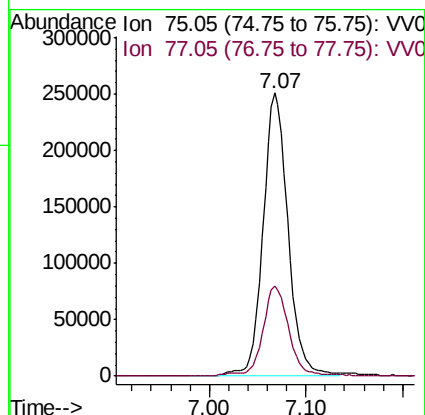
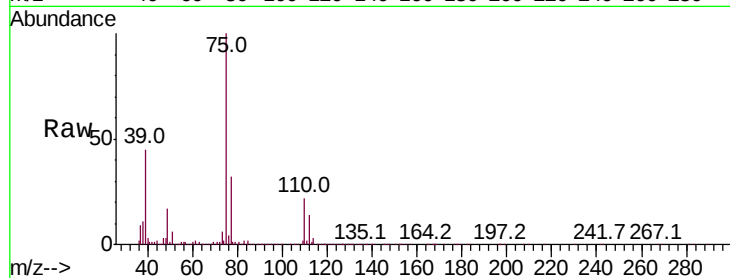
VSTD00540

Tot Ion: 75 Resp: 449567

Ion Ratio Lower Upper

75 100

77 31.7 22.4 41.6



#40

4-Methyl-2-pentanone

Concen: 47.064 ug/L

RT: 7.27 min Scan# 1922

Delta R.T. 0.00 min

Lab File: VV014191.D

Acq: 27 Dec 2019 14:42

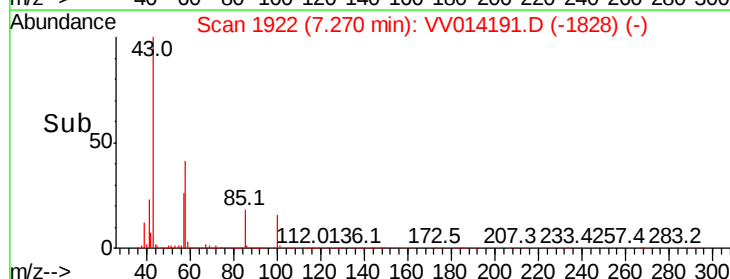
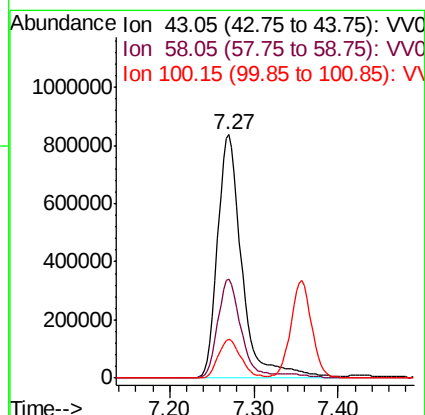
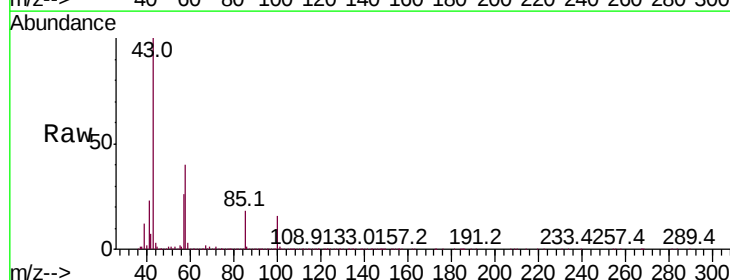
Tgt Ion: 43 Resp: 1665858

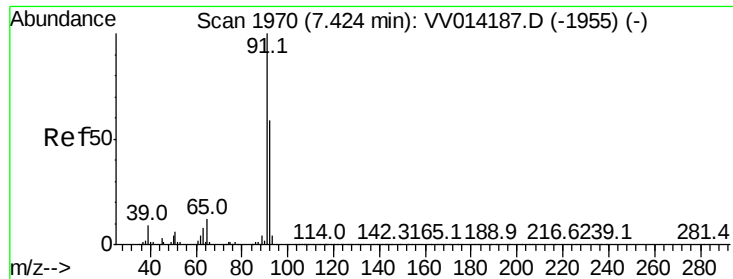
Ion Ratio Lower Upper

43 100

58 40.9 31.5 47.3

100 15.1 12.2 18.2





#42

Toluene

Concen: 4.742 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV014191.D

Acq: 27 Dec 2019 14:42

Instrument :

MSVOA_V

ClientSampleId :

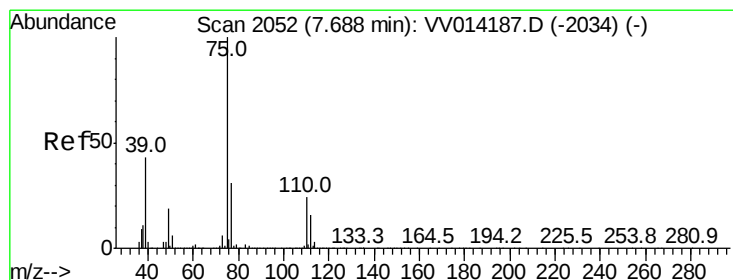
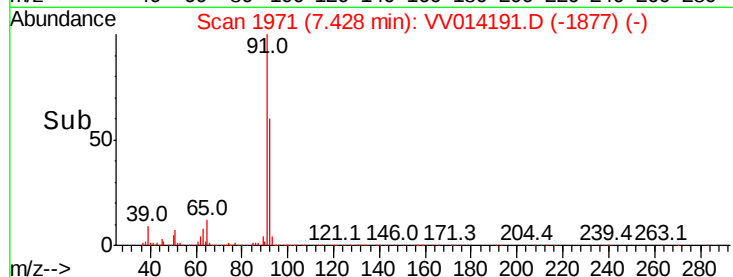
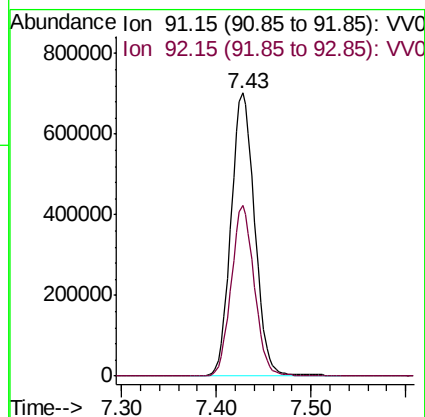
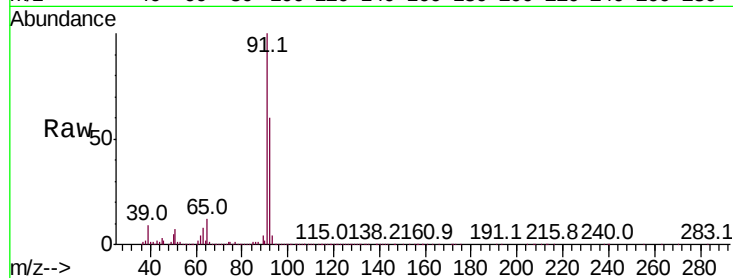
VSTD00540

Tot Ion: 91 Resp: 1220173

Ion Ratio Lower Upper

91 100

92 60.1 41.2 76.6



#44

trans-1,3-Dichloropropene

Concen: 4.814 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV014191.D

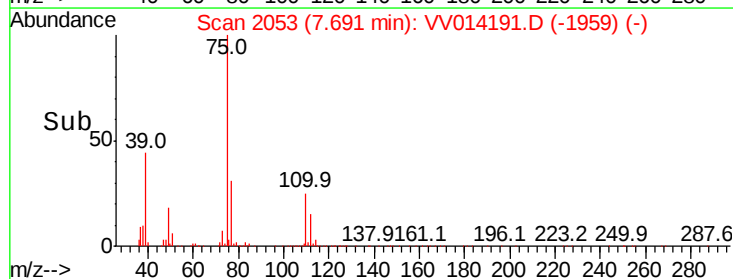
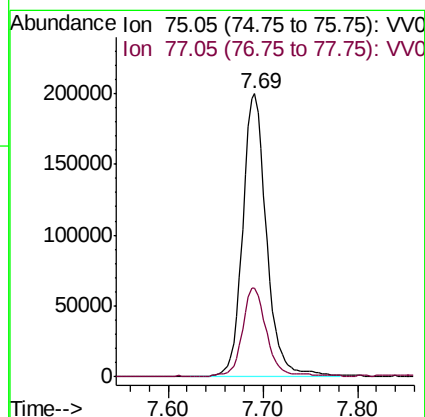
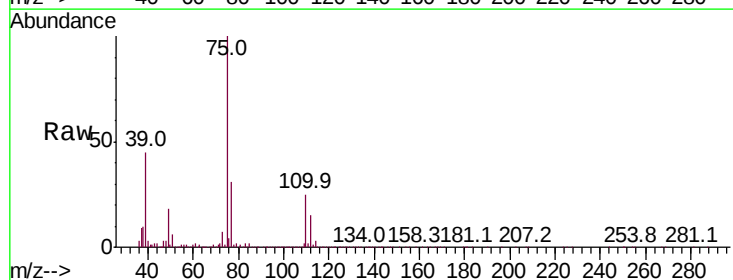
Acq: 27 Dec 2019 14:42

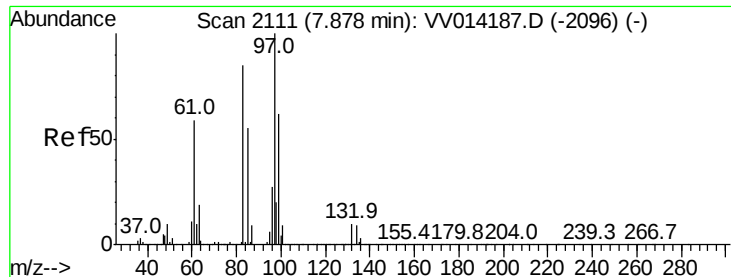
Tgt Ion: 75 Resp: 350607

Ion Ratio Lower Upper

75 100

77 31.3 22.0 41.0

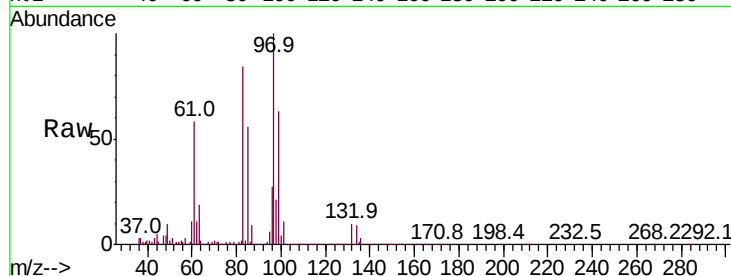




#45
1,1,2-Trichloroethane
Concen: 4.685 ug/L
RT: 7.88 min Scan# 2112
Delta R.T. 0.00 min
Lab File: VV014191.D
Acq: 27 Dec 2019 14:42

Instrument :
MSVOA_V
ClientSampleId :
VSTD00540

Tot Ion:	97	Resp:	181811
Ion	Ratio	Lower	Upper
97	100		
99	62.7	43.7	81.1
83	84.2	60.0	111.4
85	55.8	39.2	72.8

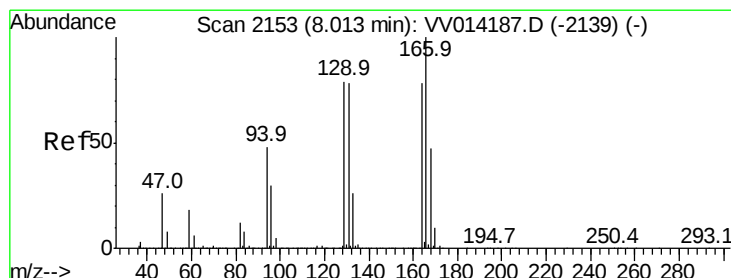
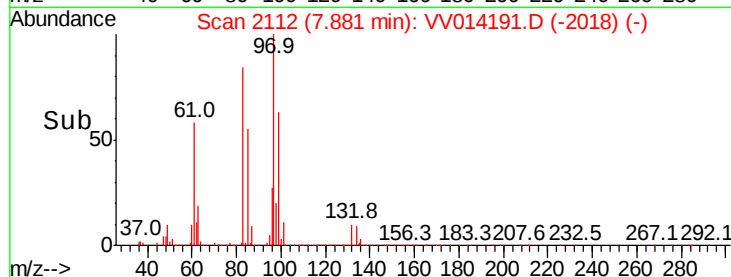
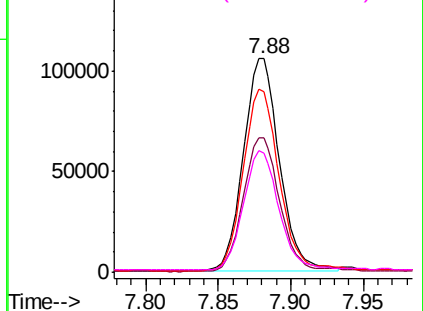


Abundance Ion 96.95 (96.65 to 97.65): VV014191.D (-2018) (-)

Ion 99.05 (98.75 to 99.75): VV014191.D (-2018) (-)

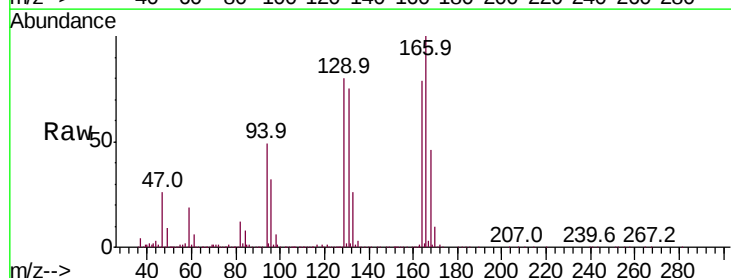
Ion 82.95 (82.65 to 83.65): VV014191.D (-2018) (-)

Ion 85.00 (84.70 to 85.70): VV014191.D (-2018) (-)



#47
Tetrachloroethene
Concen: 4.822 ug/L
RT: 8.01 min Scan# 2153
Delta R.T. 0.00 min
Lab File: VV014191.D
Acq: 27 Dec 2019 14:42

Tgt Ion:	164	Resp:	211539
Ion	Ratio	Lower	Upper
164	100		
129	101.6	71.7	133.3
131	95.1	70.4	130.8
166	126.5	90.3	167.7

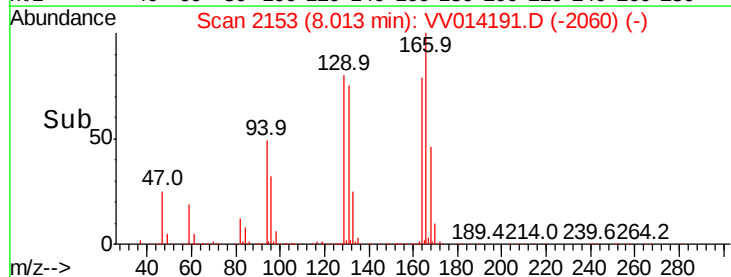
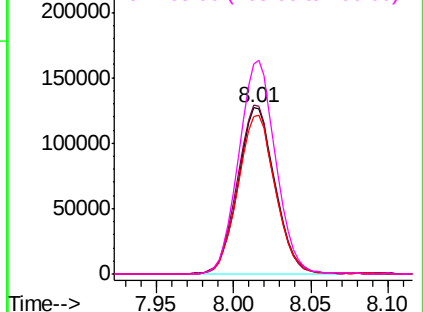


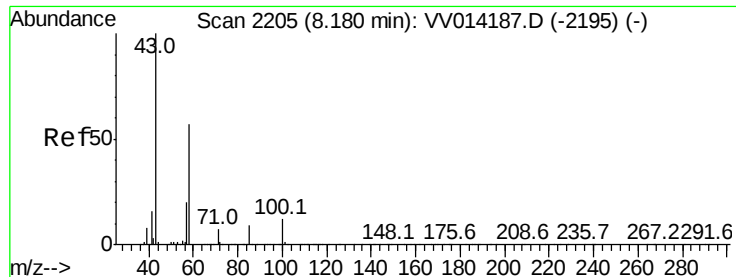
Abundance Ion 163.90 (163.60 to 164.60): VV014191.D (-2060) (-)

Ion 128.95 (128.65 to 129.65): VV014191.D (-2060) (-)

Ion 130.95 (130.65 to 131.65): VV014191.D (-2060) (-)

Ion 165.90 (165.60 to 166.60): VV014191.D (-2060) (-)



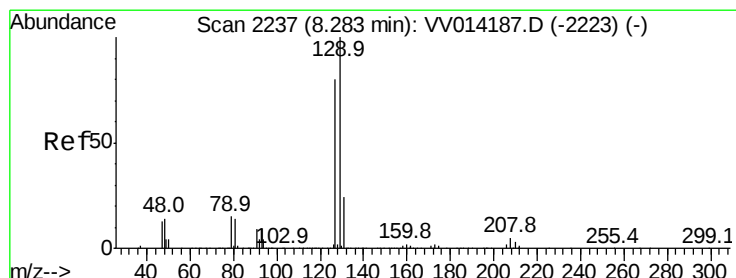
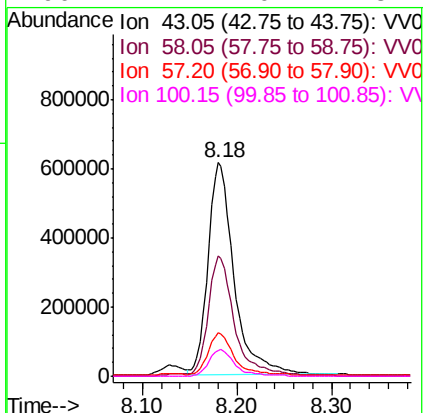
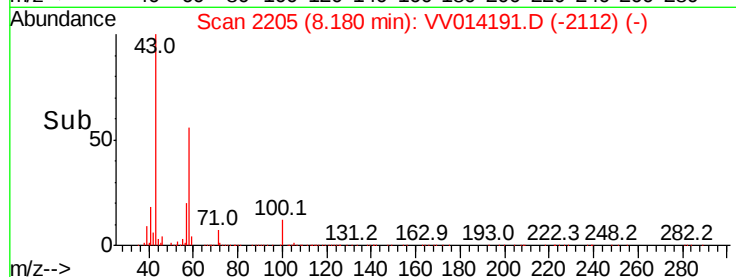
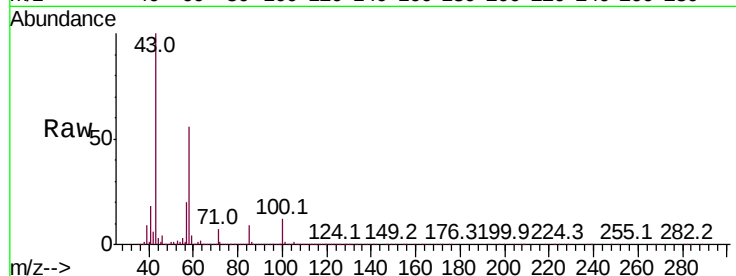


#48
2-Hexanone
Concen: 48.059 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.00 min
Lab File: VV014191.D
Acq: 27 Dec 2019 14:42

Instrument :
MSVOA_V
ClientSampleId :
VSTD00540

Tot Ion: 43 Resp: 1176371

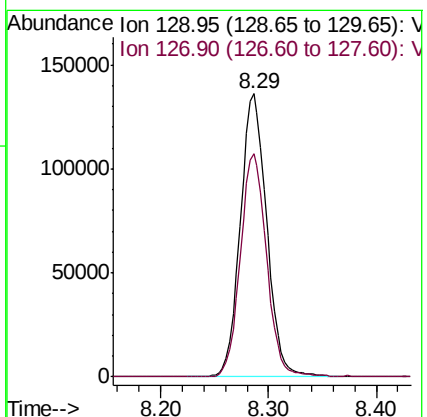
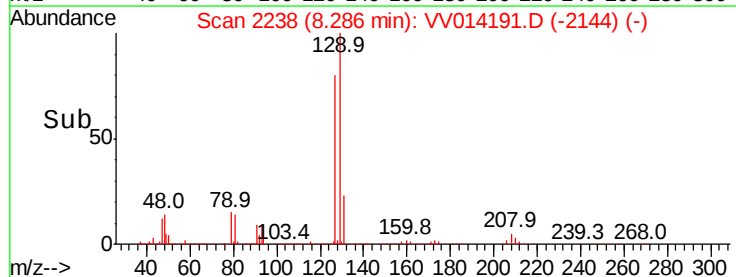
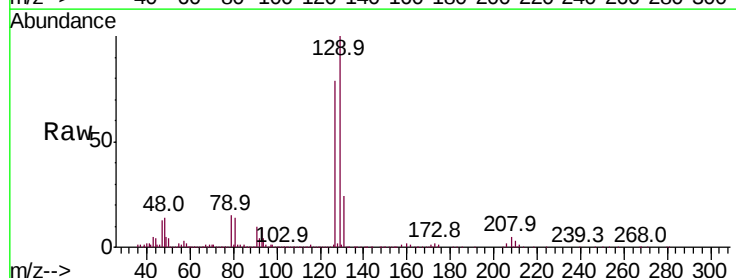
Ion	Ratio	Lower	Upper
43	100		
58	57.2	45.4	68.0
57	19.4	15.8	23.8
100	12.7	10.2	15.4

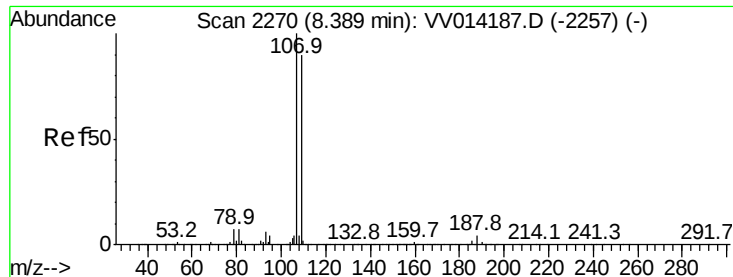


#49
Dibromochloromethane
Concen: 4.680 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VV014191.D
Acq: 27 Dec 2019 14:42

Tgt Ion: 129 Resp: 231627

Ion	Ratio	Lower	Upper
129	100		
127	78.7	55.7	103.5

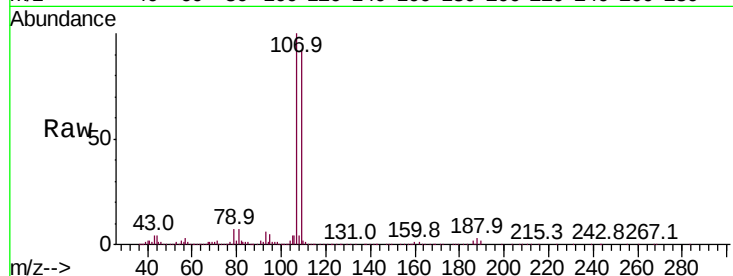




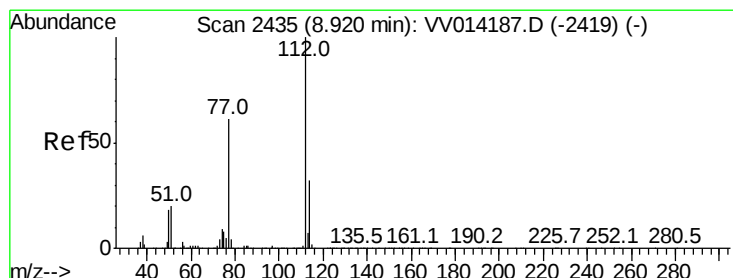
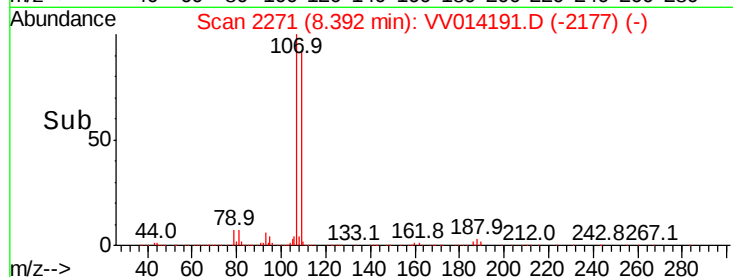
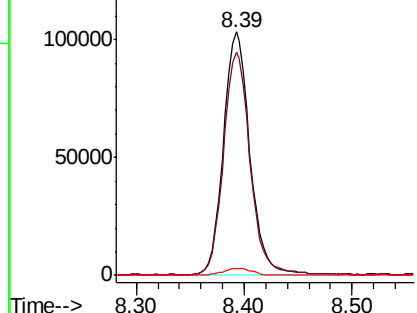
#50
1,2-Dibromoethane
Concen: 4.707 ug/L
RT: 8.39 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VV014191.D
Acq: 27 Dec 2019 14:42

Instrument :
MSVOA_V
ClientSampled :
VSTD00540

Tot Ion	Ratio	Lower	Upper
107	100		
109	91.8	63.0	117.0
188	3.0	3.0	4.4

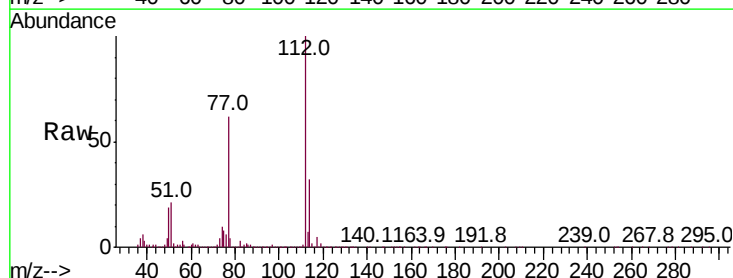


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

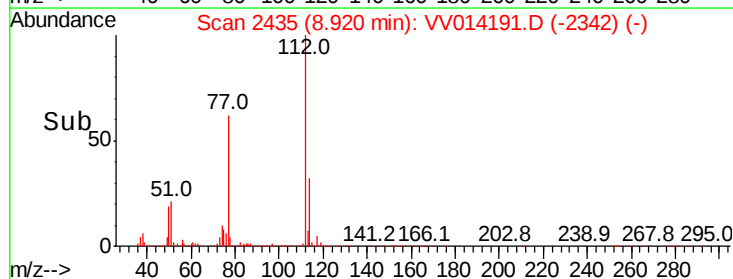
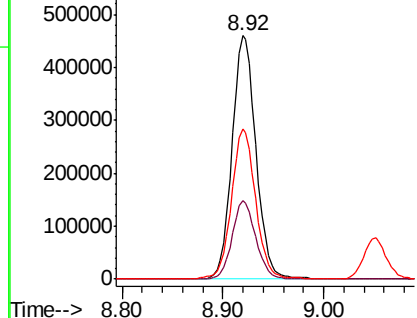


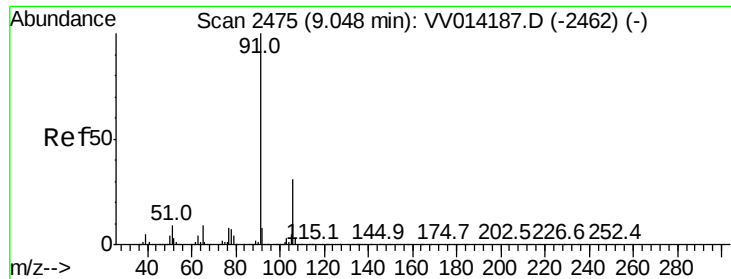
#51
Chlorobenzene
Concen: 4.767 ug/L
RT: 8.92 min Scan# 2435
Delta R.T. 0.00 min
Lab File: VV014191.D
Acq: 27 Dec 2019 14:42

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.4	22.5	41.7
77	61.9	49.3	73.9



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 4.891 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV014191.D

Acq: 27 Dec 2019 14:42

Instrument :

MSVOA_V

ClientSampleId :

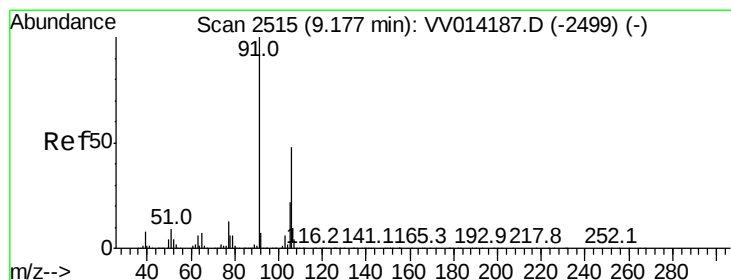
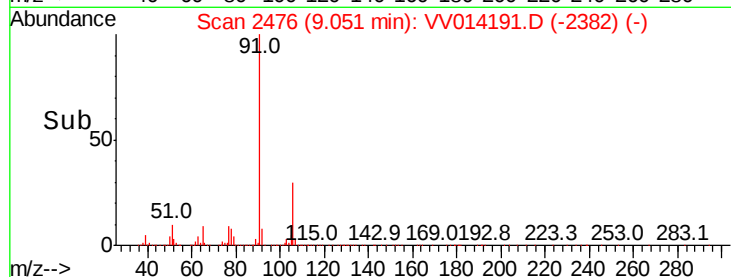
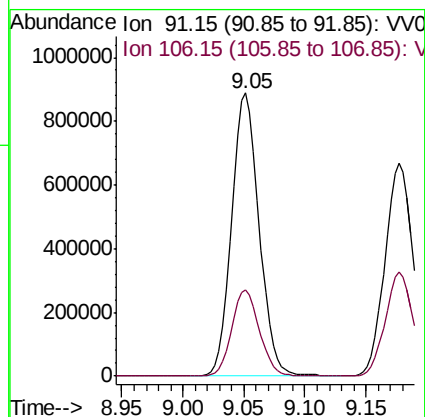
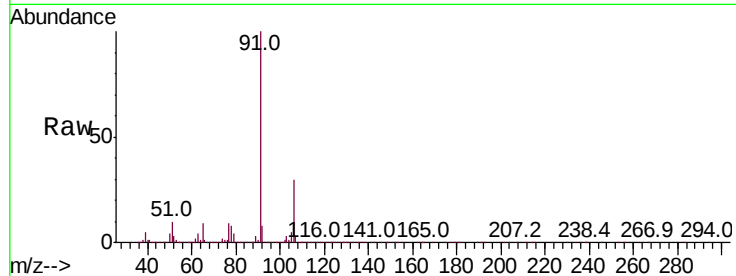
VSTD00540

Tot Ion: 91 Resp: 1397267

Ion Ratio Lower Upper

91 100

106 30.4 21.6 40.0



#53

m,p-xylene

Concen: 4.846 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV014191.D

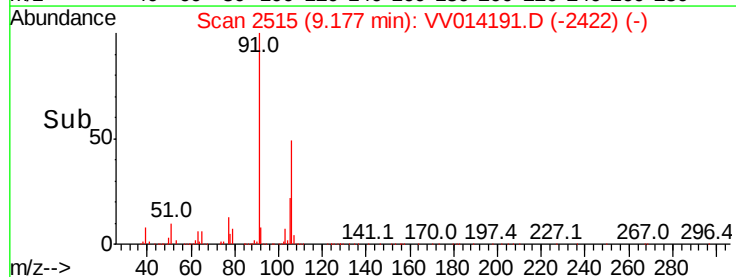
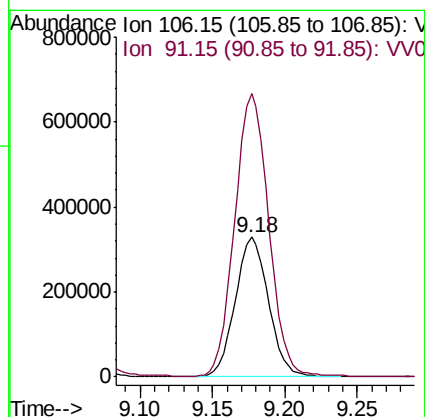
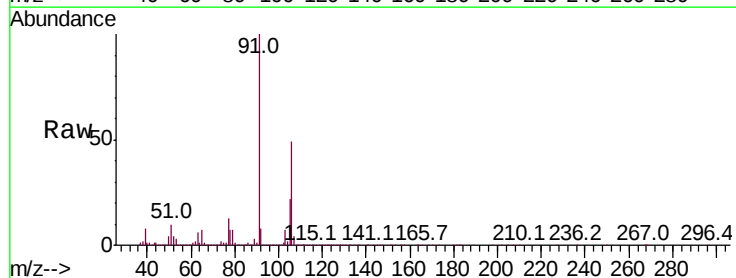
Acq: 27 Dec 2019 14:42

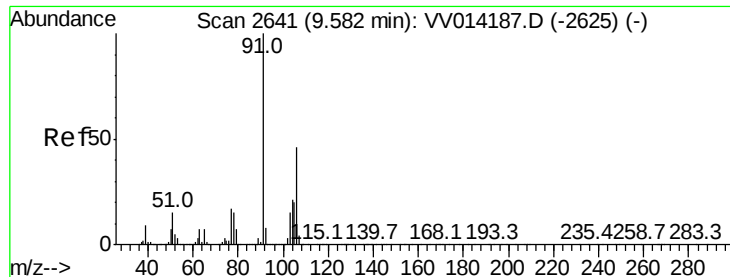
Tgt Ion: 106 Resp: 520259

Ion Ratio Lower Upper

106 100

91 203.0 146.8 272.6





#54

o-xylene

Concen: 4.763 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV014191.D

Acq: 27 Dec 2019 14:42

Instrument :

MSVOA_V

ClientSampleId :

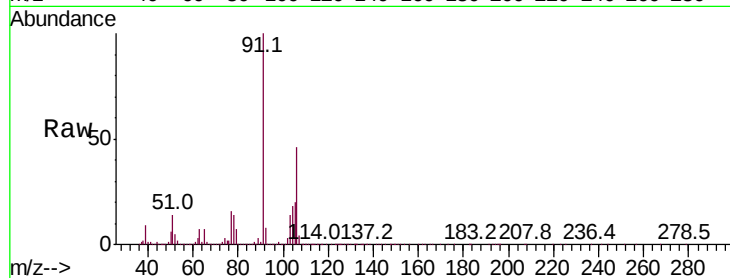
VSTD00540

Tot Ion:106 Resp: 499350

Ion Ratio Lower Upper

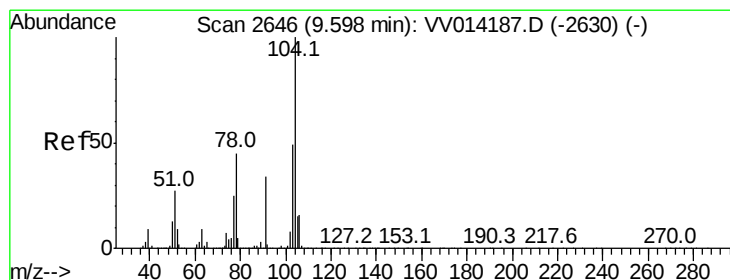
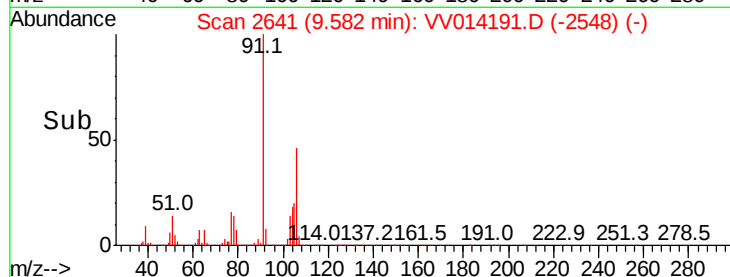
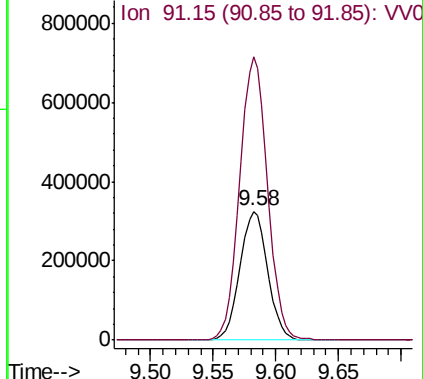
106 100

91 219.7 150.9 280.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 4.805 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. 0.00 min

Lab File: VV014191.D

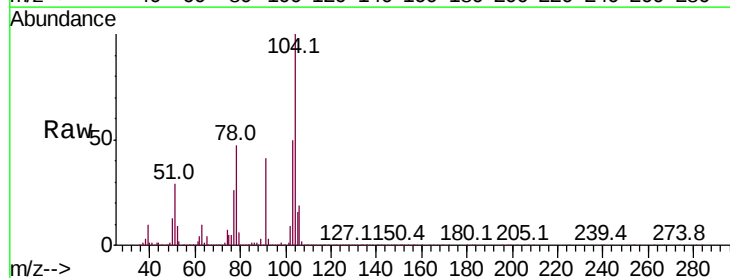
Acq: 27 Dec 2019 14:42

Tgt Ion:104 Resp: 845598

Ion Ratio Lower Upper

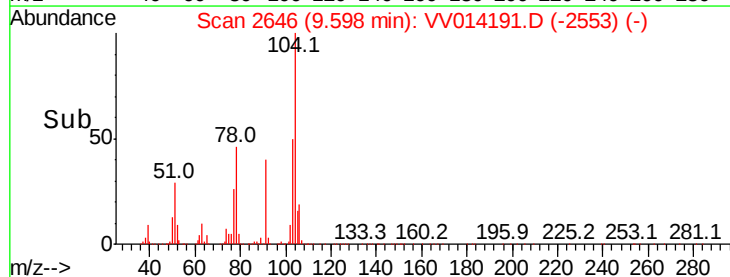
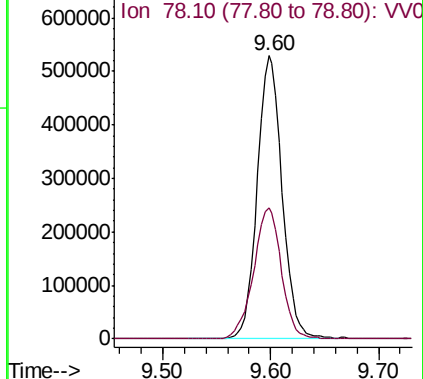
104 100

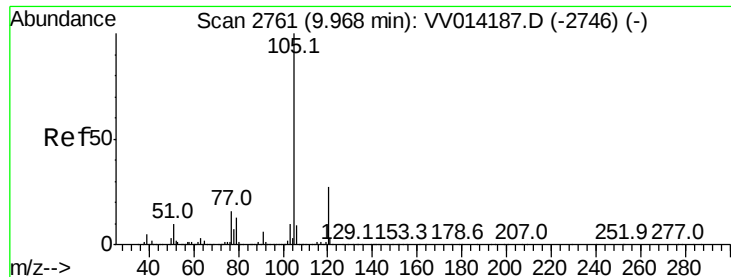
78 46.5 31.7 58.9



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 4.917 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV014191.D

Acq: 27 Dec 2019 14:42

Instrument :

MSVOA_V

ClientSampleId :

VSTD00540

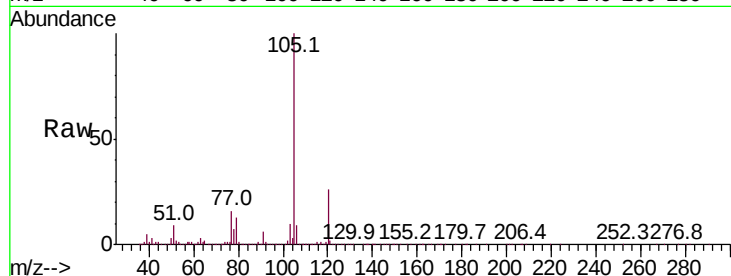
Tot Ion:105 Resp: 1351887

Ion Ratio Lower Upper

105 100

120 26.3 21.0 31.4

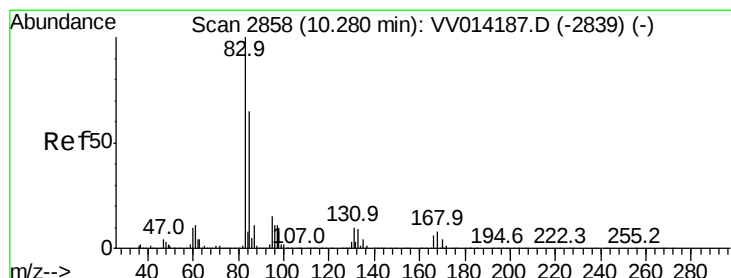
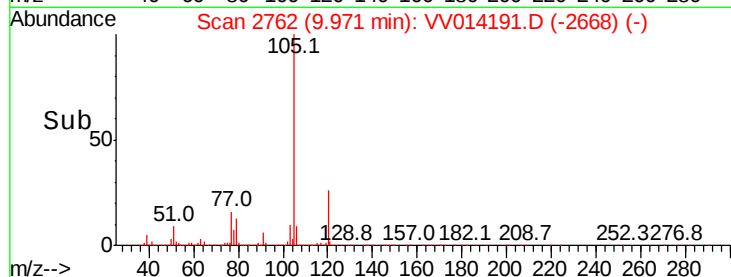
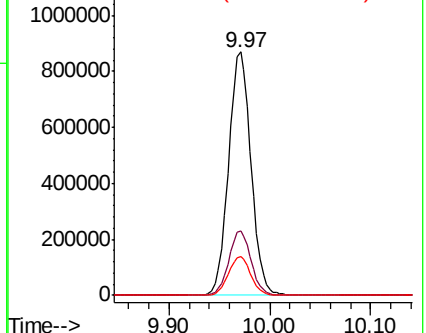
77 15.8 12.5 18.7



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: 4.758 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV014191.D

Acq: 27 Dec 2019 14:42

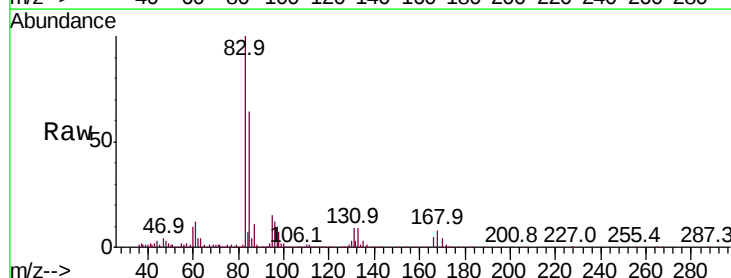
Tgt Ion: 83 Resp: 222631

Ion Ratio Lower Upper

83 100

85 63.7 45.9 85.3

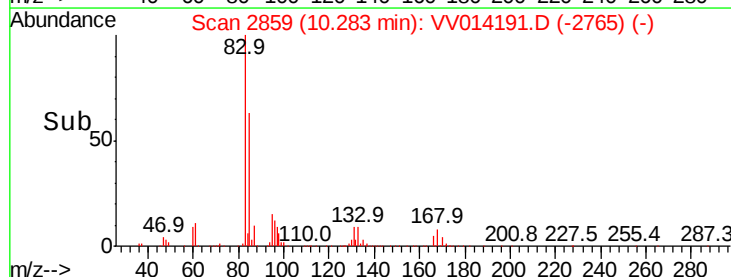
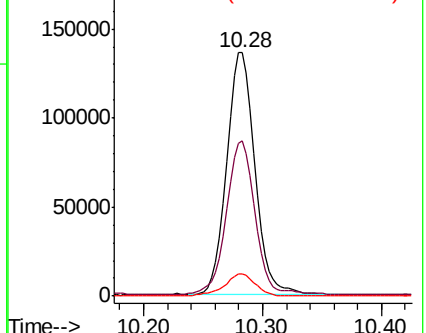
131 9.2 7.8 11.8

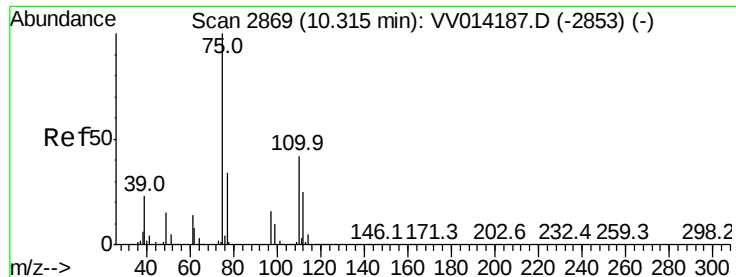


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.585 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VV014191.D

Acq: 27 Dec 2019 14:42

Instrument :

MSVOA_V

ClientSampled :

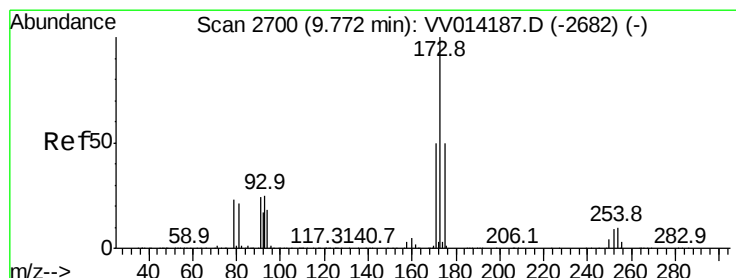
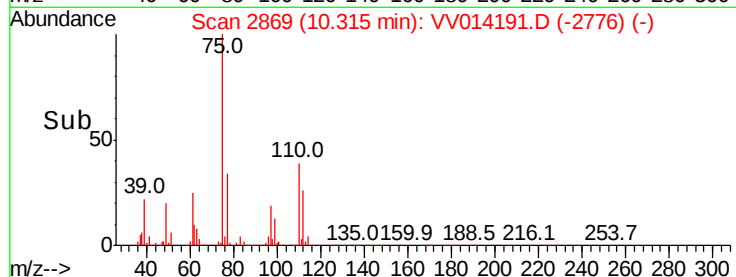
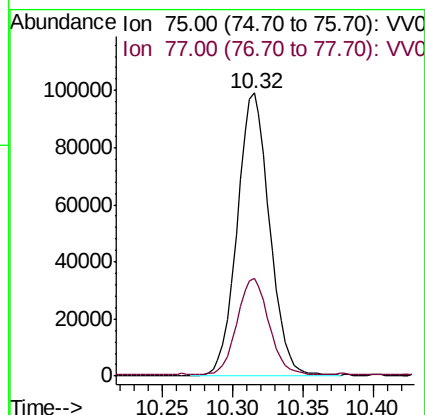
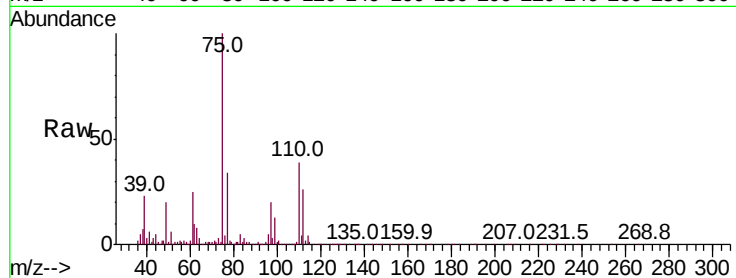
VSTD00540

Tot Ion: 75 Resp: 159469

Ion Ratio Lower Upper

75 100

77 33.5 25.7 38.5



#61

Bromoform

Concen: 4.758 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV014191.D

Acq: 27 Dec 2019 14:42

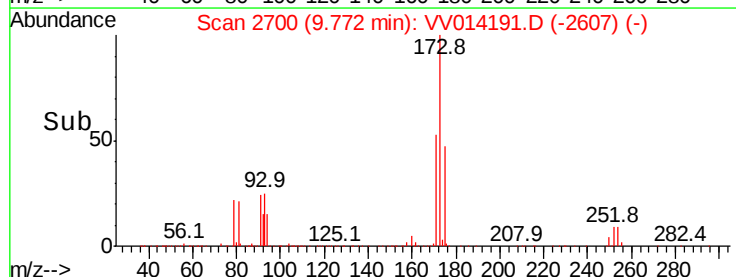
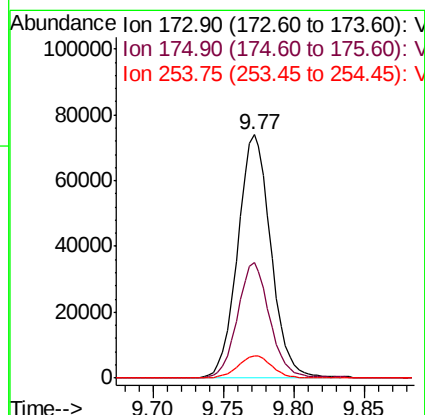
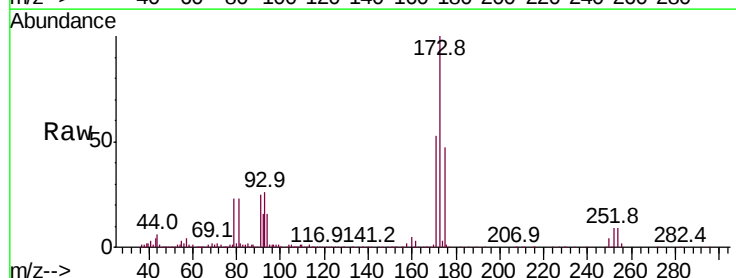
Tgt Ion: 173 Resp: 121849

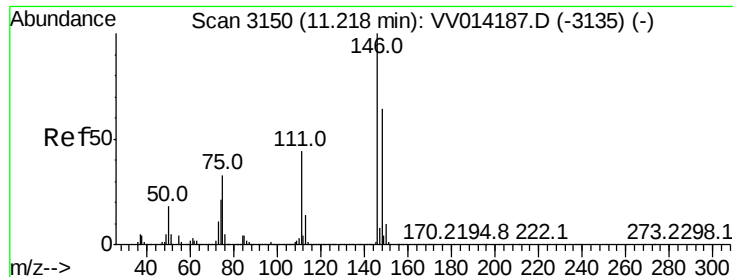
Ion Ratio Lower Upper

173 100

175 46.0 37.9 56.9

254 9.3 7.6 11.4





#62

1,3-Dichlorobenzene

Concen: 4.946 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. 0.00 min

Lab File: VV014191.D

Acq: 27 Dec 2019 14:42

Instrument :

MSVOA_V

ClientSampleId :

VSTD00540

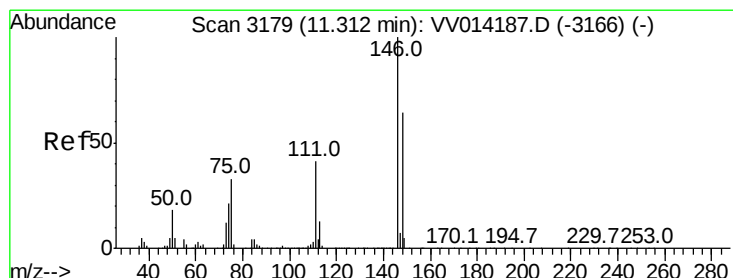
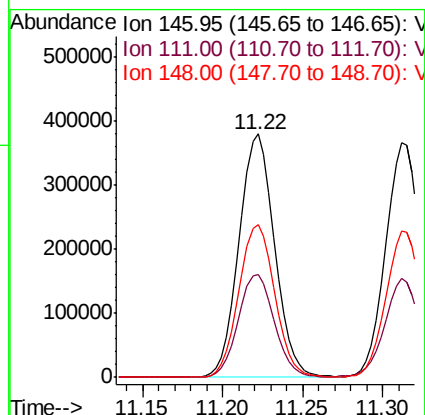
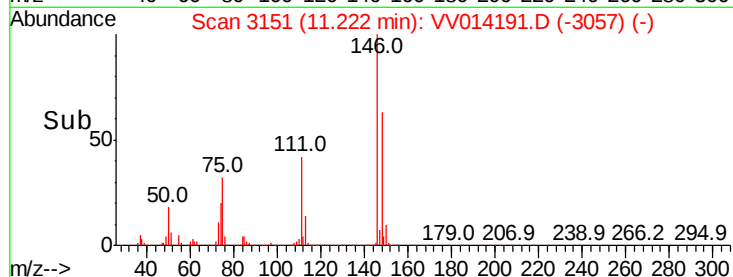
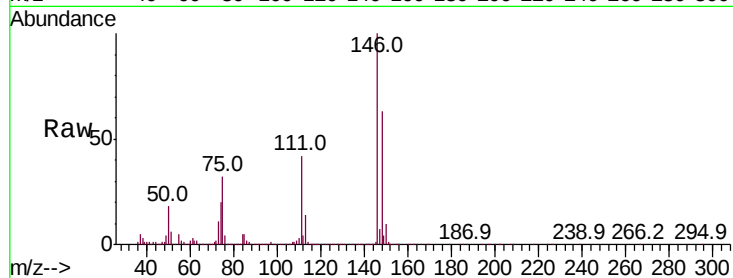
Tot Ion:146 Resp: 574419

Ion Ratio Lower Upper

146 100

111 42.2 30.7 57.1

148 62.6 44.4 82.5



#63

1,4-Dichlorobenzene

Concen: 4.885 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. 0.00 min

Lab File: VV014191.D

Acq: 27 Dec 2019 14:42

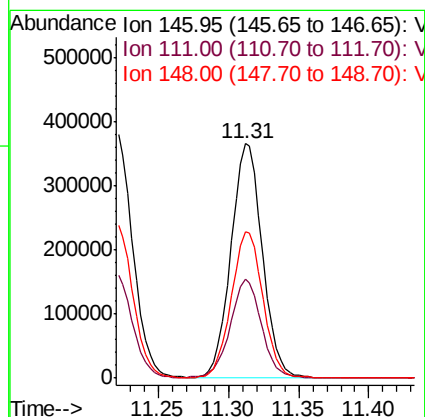
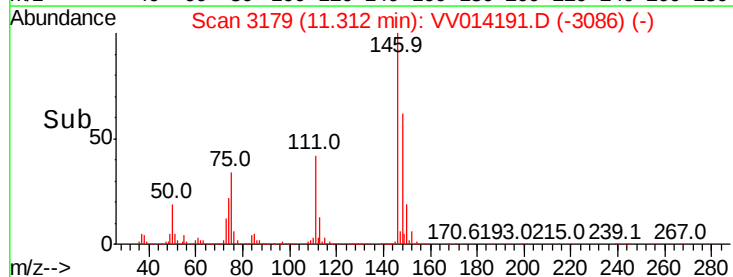
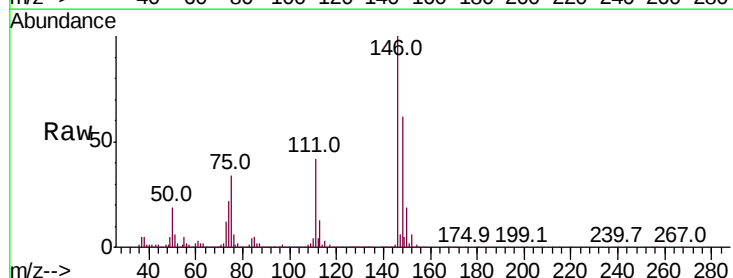
Tgt Ion:146 Resp: 567158

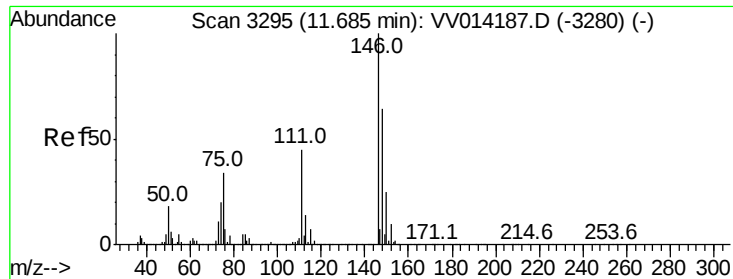
Ion Ratio Lower Upper

146 100

111 42.0 28.8 53.4

148 62.2 44.5 82.7

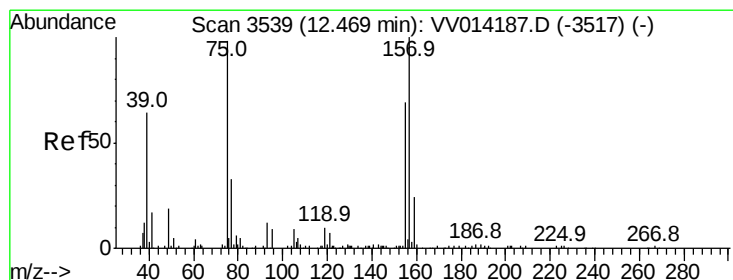
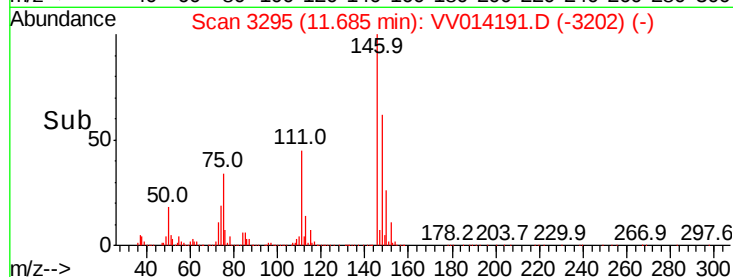
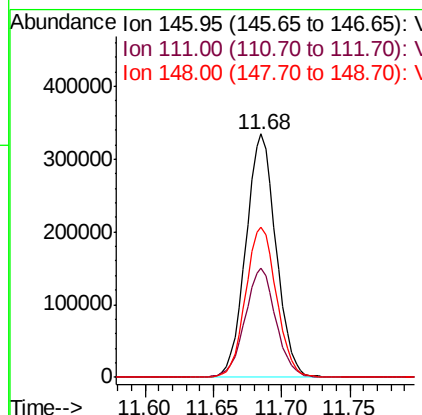
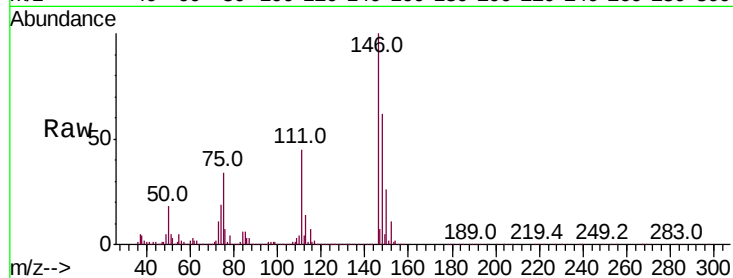




#65
 1,2-Dichlorobenzene
 Concen: 4.802 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. 0.00 min
 Lab File: VV014191.D
 Acq: 27 Dec 2019 14:42

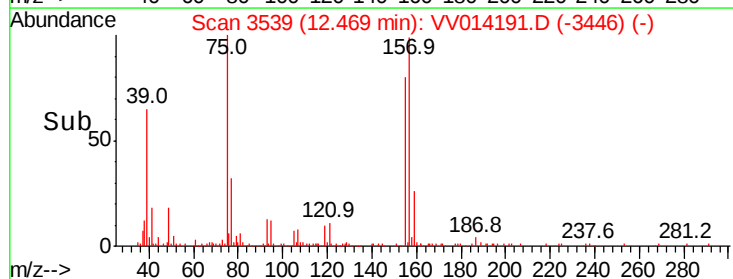
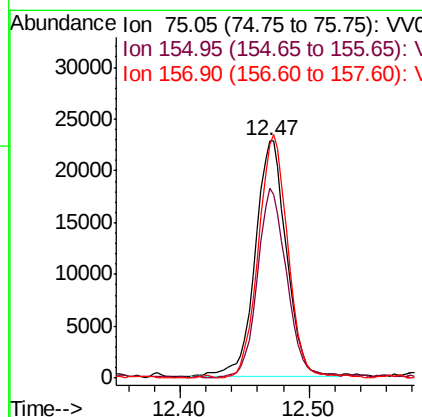
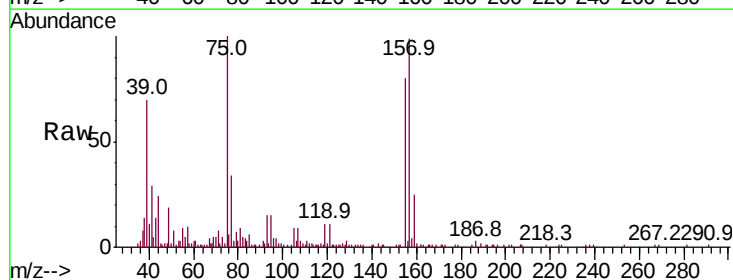
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00540

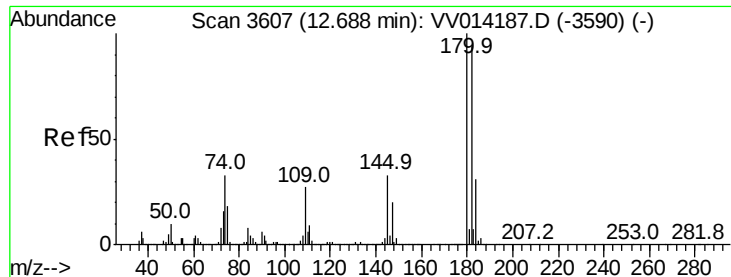
Tot Ion	Ratio	Lower	Upper
146	100		
111	44.8	36.4	54.6
148	61.8	51.3	76.9



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.426 ug/L
 RT: 12.47 min Scan# 3539
 Delta R.T. 0.00 min
 Lab File: VV014191.D
 Acq: 27 Dec 2019 14:42

Tgt Ion	Ratio	Lower	Upper
75	100		
155	79.7	56.9	85.3
157	98.6	82.0	123.0

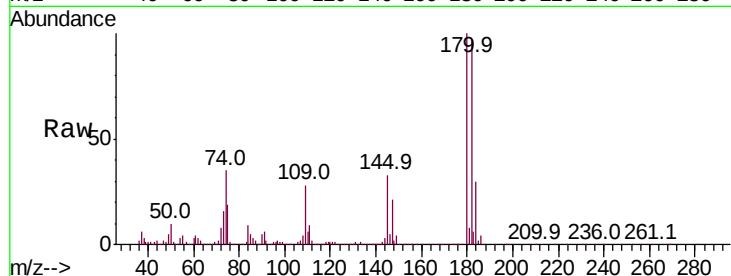




#67
 1,3,5-Trichlorobenzene
 Concen: 4.901 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV014191.D
 Acq: 27 Dec 2019 14:42

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00540

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	77.2	115.8
184	30.2	24.6	36.8
145	32.7	26.9	40.3



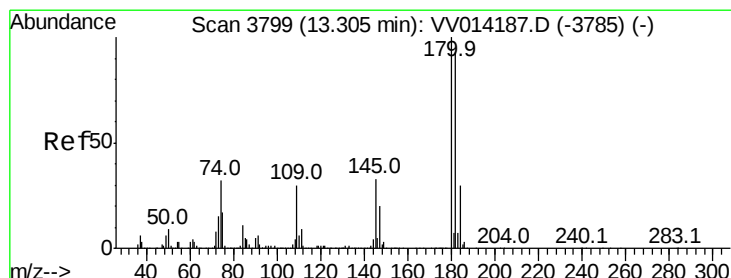
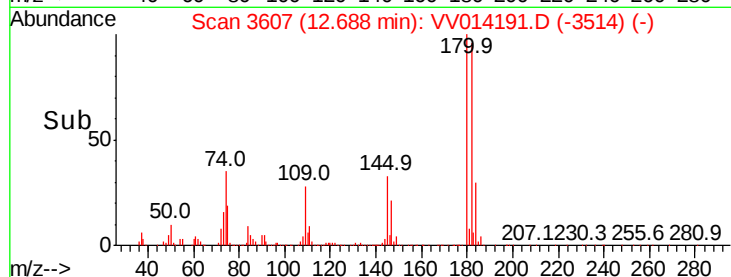
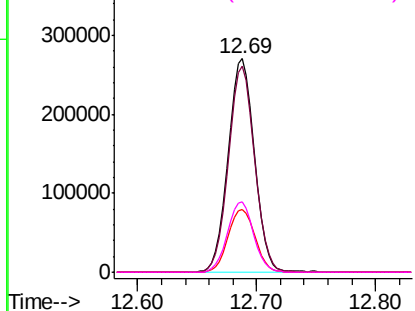
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

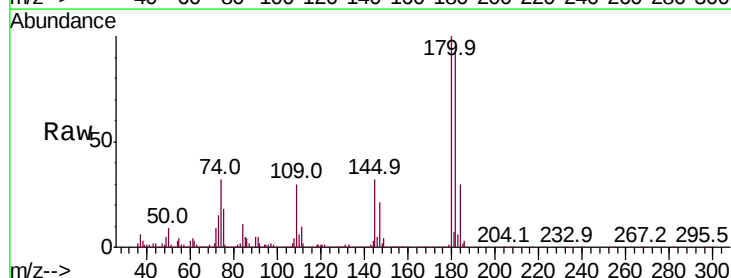
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.981 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV014191.D
 Acq: 27 Dec 2019 14:42

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.8	75.2	112.8
145	32.4	26.2	39.4

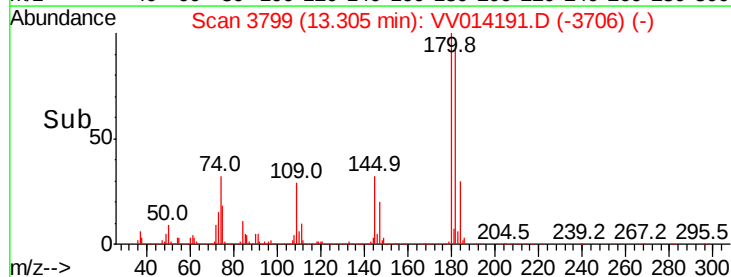
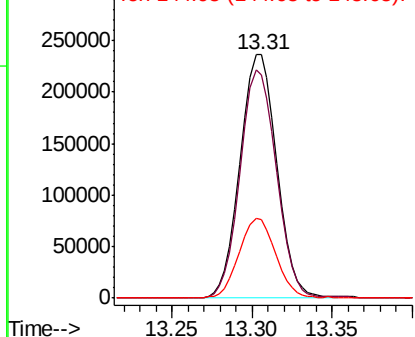


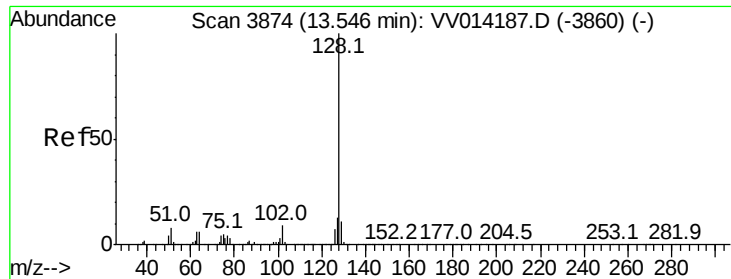
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.923 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV014191.D

Acq: 27 Dec 2019 14:42

Instrument :

MSVOA_V

ClientSampleId :

VSTD00540

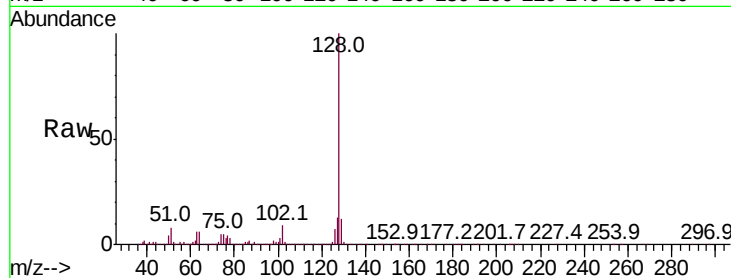
Tot Ion:128 Resp: 665065

Ion Ratio Lower Upper

128 100

129 11.5 8.6 13.0

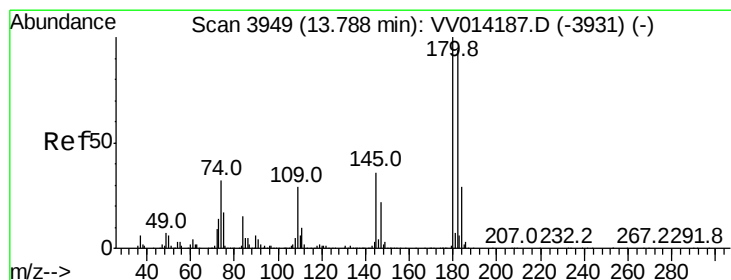
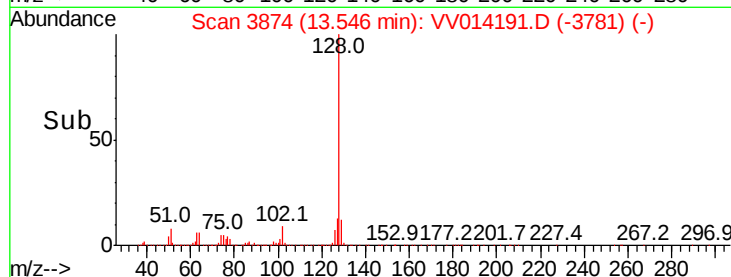
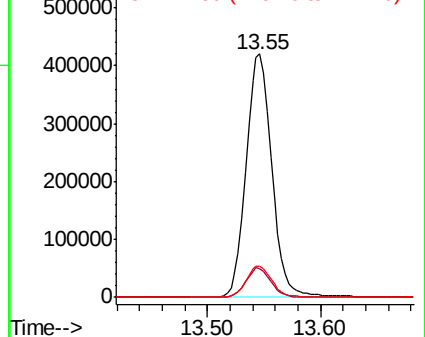
127 12.9 10.2 15.2



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: 4.931 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VV014191.D

Acq: 27 Dec 2019 14:42

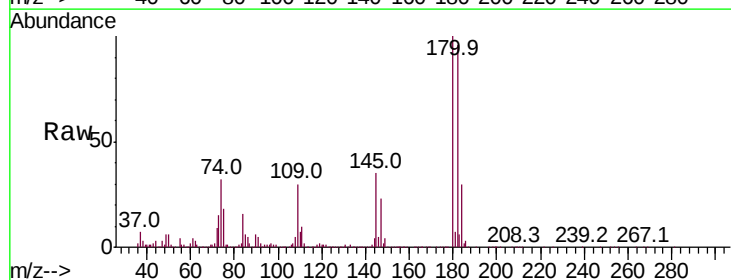
Tgt Ion:180 Resp: 319275

Ion Ratio Lower Upper

180 100

182 95.5 74.8 112.2

145 35.4 29.0 43.6



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

