

Data File : VV013013.D
Acq On : 30 Sep 2019 11:58
Operator : SY/MD
Sample : VSTD02579
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

Quant Time: Sep 30 14:02:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM093019SMA.M
Quant Title : VOC Analysis
QLast Update : Mon Sep 30 13:59:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	795981	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	788963	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	428588	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	278323	24.44	ug/L	0.00
7) Chloroethane-d5	1.58	69	225054	23.57	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	484192	24.69	ug/L	0.00
21) 2-Butanone-d5	3.94	46	198724	60.86	ug/L	0.00
24) Chloroform-d	4.40	84	529291	24.69	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	301154	24.69	ug/L	0.00
32) Benzene-d6	5.10	84	1080316	24.82	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.11	67	336831	24.69	ug/L	0.00
41) Toluene-d8	7.36	98	1014319	25.52	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.66	79	143392	25.04	ug/L	0.00
47) 2-Hexanone-d5	8.13	63	144638	50.29	ug/L	0.00
56) 1,1,2,2-Tetrachloroethane-	10.26	84	315172	24.70	ug/L	0.00
66) 1,2-Dichlorobenzene-d4	11.67	152	403814	24.43	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	251336	29.472	ug/L	100
3) Chloromethane	1.25	50	287552	26.482	ug/L	100
5) Vinyl chloride	1.32	62	295648	26.428	ug/L	100
6) Bromomethane	1.53	94	181243	25.220	ug/L	100
8) Chloroethane	1.60	64	172045	24.332	ug/L	100
9) Trichlorofluoromethane	1.77	101	401146	26.473	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	249734	25.712	ug/L	100
12) 1,1-Dichloroethene	2.14	96	230807	25.301	ug/L	100
13) Acetone	2.20	43	194004	45.781	ug/L	100
14) Carbon disulfide	2.32	76	723272	25.833	ug/L	100
15) Methyl Acetate	2.46	43	162571	24.859	ug/L	100
16) Methylene chloride	2.53	84	294168	22.565	ug/L	100
17) trans-1,2-Dichloroethene	2.79	96	270914	25.193	ug/L	100
18) Methyl tert-butyl Ether	2.80	73	686114	25.364	ug/L	100
19) 1,1-Dichloroethane	3.23	63	496258	25.145	ug/L	100
20) cis-1,2-Dichloroethene	3.96	96	303895	25.409	ug/L	100
22) 2-Butanone	4.02	43	228984	62.427	ug/L	100
23) Bromochloromethane	4.30	128	145600	24.831	ug/L	100
25) Chloroform	4.42	83	517021	25.127	ug/L	100
27) 1,2-Dichloroethane	5.18	62	356984	25.238	ug/L	100
29) Cyclohexane	4.72	56	451194	25.977	ug/L	100
30) 1,1,1-Trichloroethane	4.66	97	408391	25.342	ug/L	100
31) Carbon tetrachloride	4.87	117	368299	25.388	ug/L	100
33) Benzene	5.14	78	1144519	25.373	ug/L	100
34) Trichloroethene	5.96	95	305854	25.030	ug/L	100
35) Methylcyclohexane	6.17	83	499196	26.027	ug/L	100
37) 1,2-Dichloropropane	6.22	63	292928	25.309	ug/L	100
38) Bromodichloromethane	6.55	83	377760	25.004	ug/L	100
39) cis-1,3-Dichloropropene	7.07	75	453147	26.002	ug/L	100
40) 4-Methyl-2-pentanone	7.27	43	455239	49.214	ug/L	100

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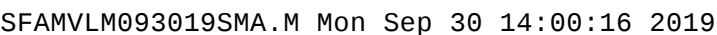
Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

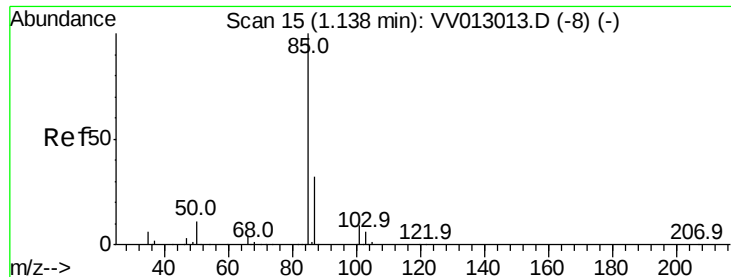
Quant Time: Sep 30 14:02:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM093019SMA.M
Quant Title : VOC Analysis
QLast Update : Mon Sep 30 13:59:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	1243970	25.930	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	371551	25.965	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	246215	25.077	ug/L	100
46) Tetrachloroethene	8.02	164	256452	25.365	ug/L	100
48) 2-Hexanone	8.18	43	341176	50.653	ug/L	100
49) Dibromochloromethane	8.29	129	285444	25.496	ug/L	100
50) 1,2-Dibromoethane	8.39	107	242248	25.010	ug/L	100
51) Chlorobenzene	8.92	112	821276	25.238	ug/L	100
52) Ethylbenzene	9.05	91	1374197	26.075	ug/L	100
53) m,p-Xylene	9.18	106	533145	26.464	ug/L	100
54) o-Xylene	9.59	106	511097	26.518	ug/L	100
55) Styrene	9.60	104	905527	26.835	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.28	83	299614	25.027	ug/L	100
59) Bromoform	9.77	173	183073	24.939	ug/L	100
60) Isopropylbenzene	9.97	105	1360962	26.349	ug/L	100
61) 1,2,3-Trichloropropane	10.31	75	238918	24.490	ug/L	100
62) 1,3,5-Trimethylbenzene	10.58	105	1125077	27.034	ug/L	100
63) 1,2,4-Trimethylbenzene	10.95	105	1135289	27.165	ug/L	100
64) 1,3-Dichlorobenzene	11.22	146	686859	25.335	ug/L	100
65) 1,4-Dichlorobenzene	11.31	146	702992	24.691	ug/L	100
67) 1,2-Dichlorobenzene	11.69	146	646948	24.993	ug/L	100
68) 1,2-Dibromo-3-chloropropan	12.47	75	50006	23.633	ug/L	100
69) 1,3,5-Trichlorobenzene	12.69	180	548106	25.111	ug/L	100
70) 1,2,4-trichlorobenzene	13.31	180	479078	25.383	ug/L	100
71) Naphthalene	13.55	128	955603	25.992	ug/L	100
72) 1,2,3-Trichlorobenzene	13.79	180	461940	25.374	ug/L	100

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

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#2

Dichlorodifluoromethane

Concen: 29.472 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV013013.D

Acq: 30 Sep 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

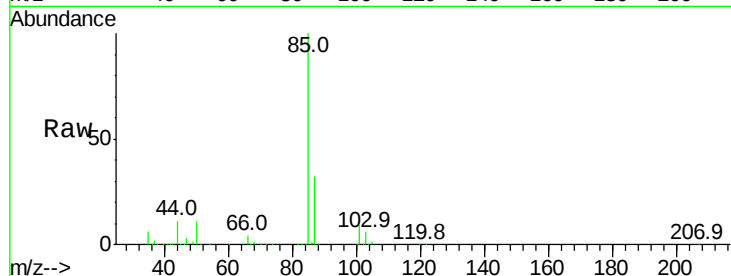
VSTD02564

Tgt Ion: 85 Resp: 251336

Ion Ratio Lower Upper

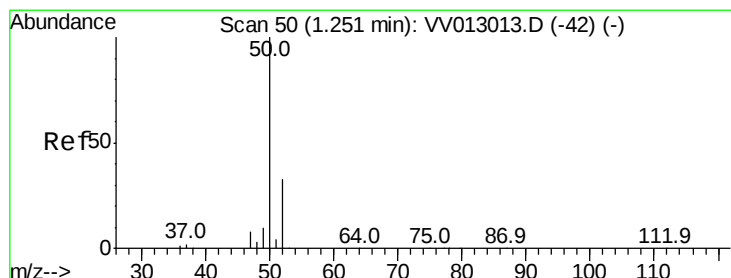
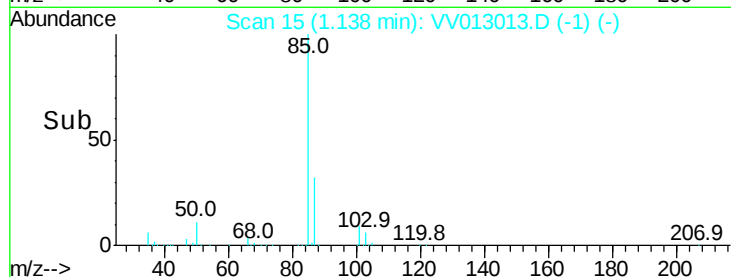
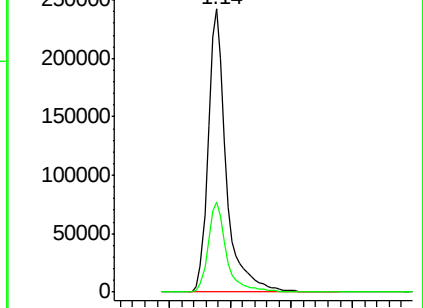
85 100

87 32.1 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 26.482 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV013013.D

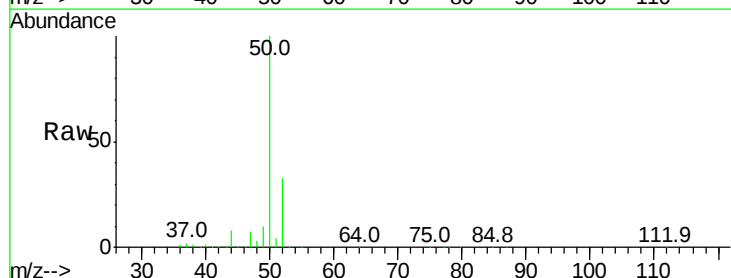
Acq: 30 Sep 2019 11:58

Tgt Ion: 50 Resp: 287552

Ion Ratio Lower Upper

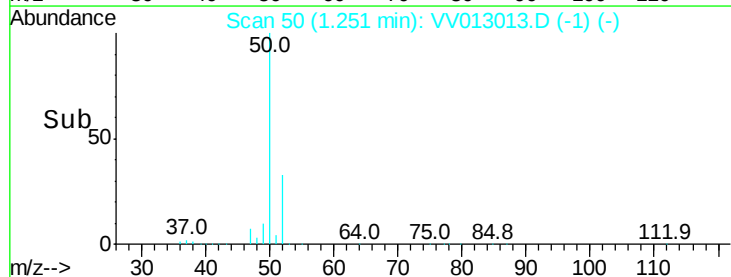
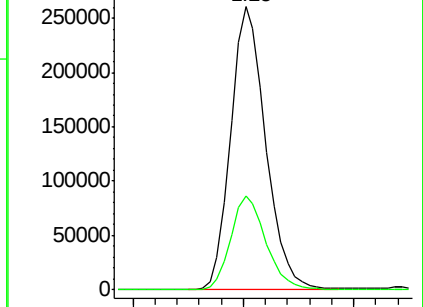
50 100

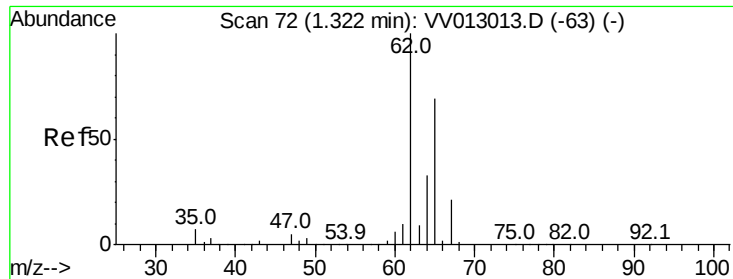
52 33.0 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 26.428 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV013013.D

Acq: 30 Sep 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

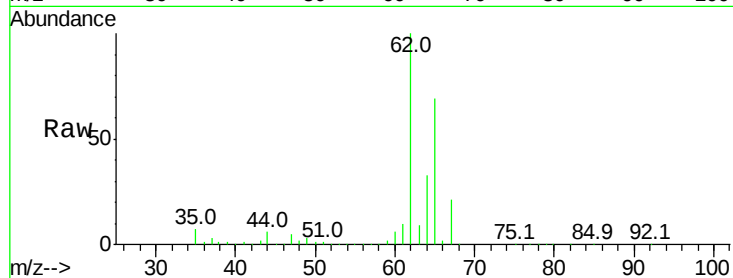
VSTD02564

Tgt Ion: 62 Resp: 295648

Ion Ratio Lower Upper

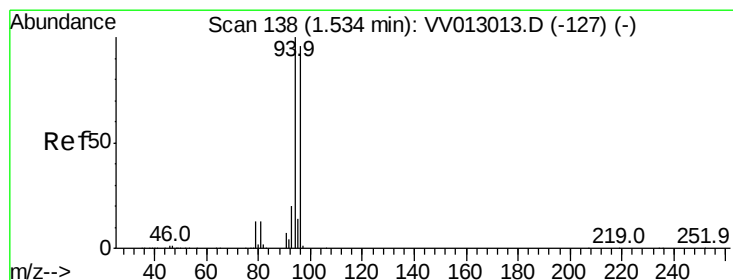
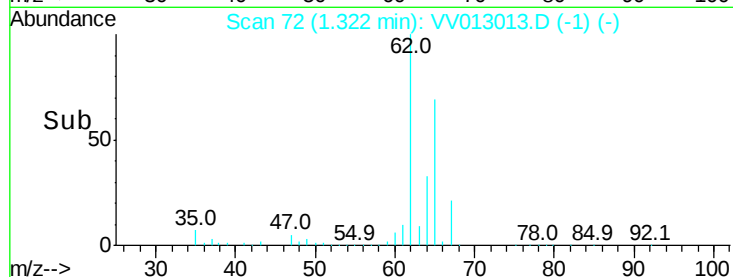
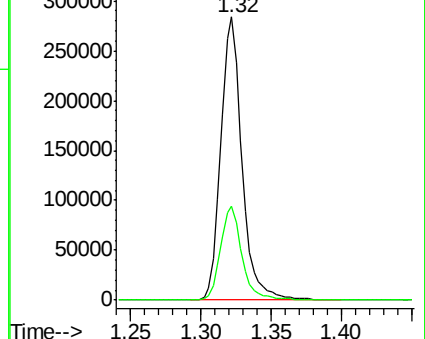
62 100

64 33.0 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 25.220 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV013013.D

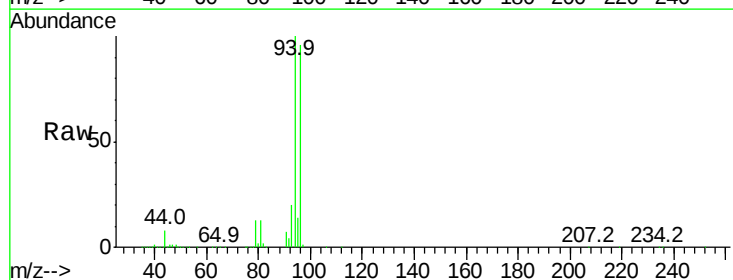
Acq: 30 Sep 2019 11:58

Tgt Ion: 94 Resp: 181243

Ion Ratio Lower Upper

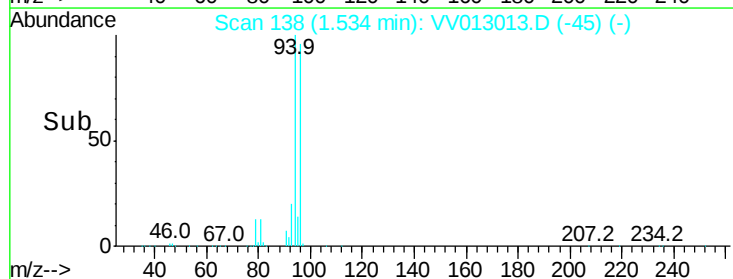
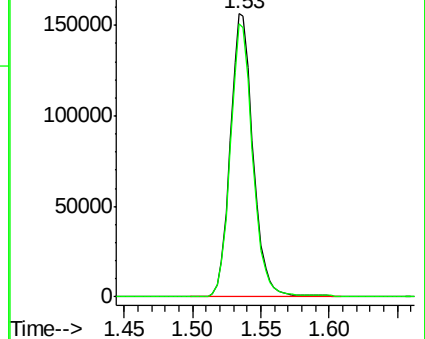
94 100

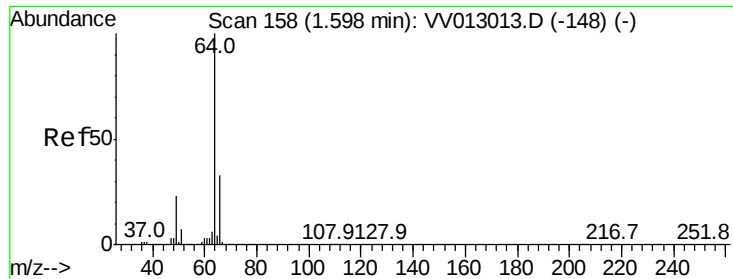
96 96.3 67.4 125.2



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 24.332 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV013013.D

Acq: 30 Sep 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

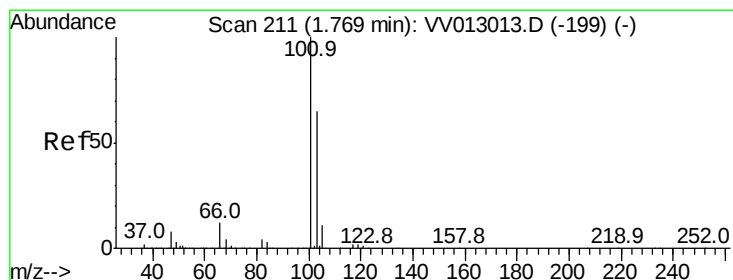
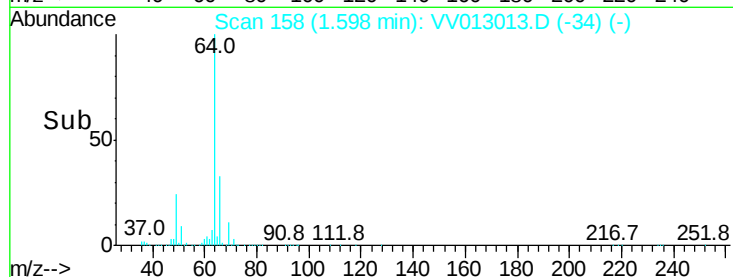
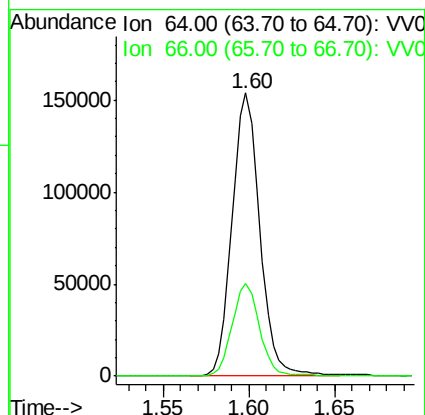
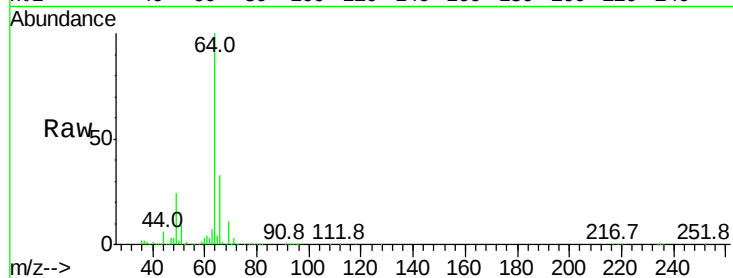
VSTD02564

Tgt Ion: 64 Resp: 172045

Ion Ratio Lower Upper

64 100

66 32.6 22.8 42.4



#9

Trichlorofluoromethane

Concen: 26.473 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV013013.D

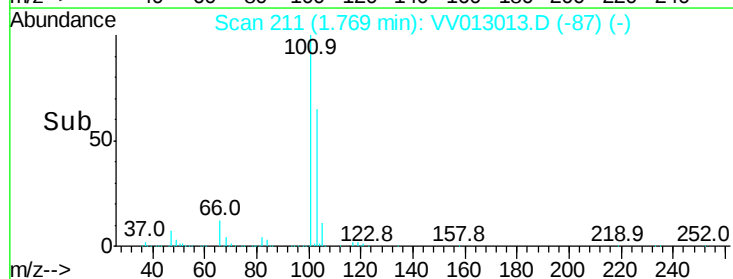
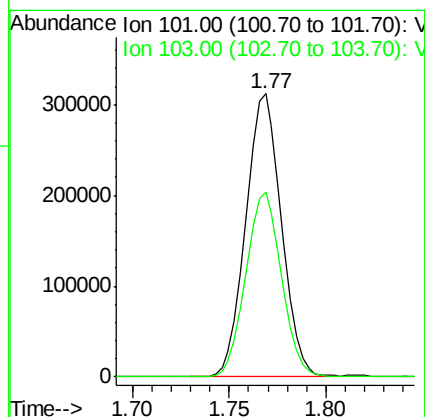
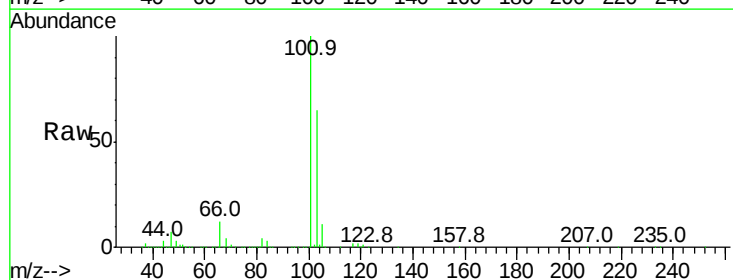
Acq: 30 Sep 2019 11:58

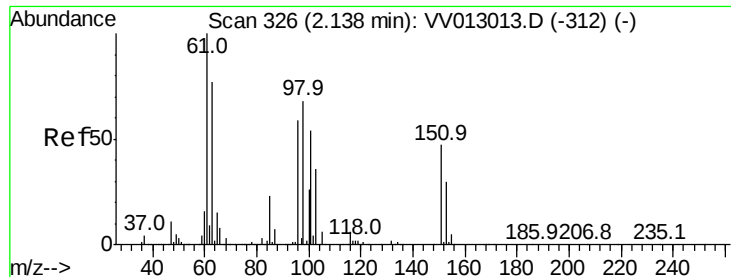
Tgt Ion: 101 Resp: 401146

Ion Ratio Lower Upper

101 100

103 65.2 52.2 78.2





#10

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

Concen: 25.712 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV013013.D

Acq: 30 Sep 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

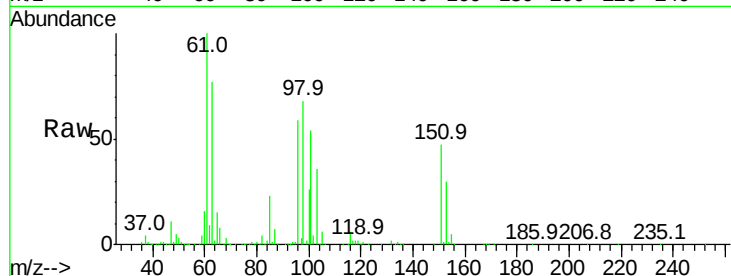
Tgt Ion: 101 Resp: 249734

Ion Ratio Lower Upper

101 100

85 42.0 33.6 50.4

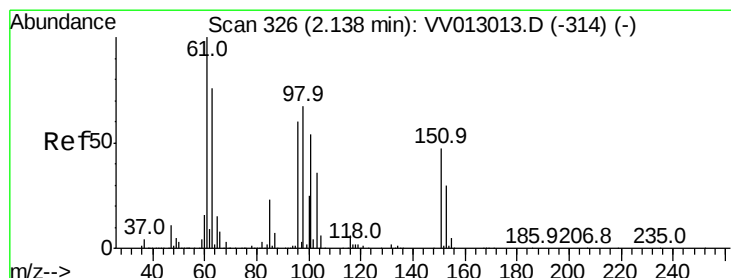
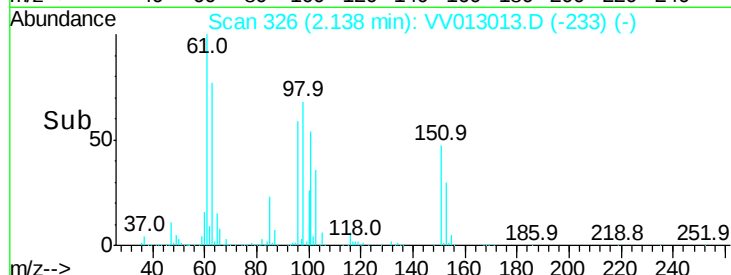
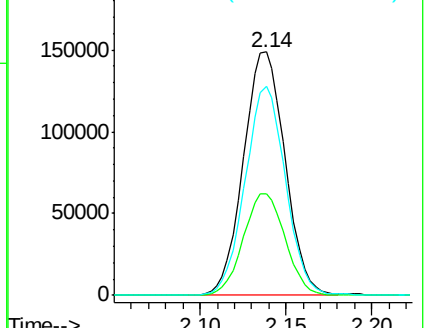
151 83.6 66.9 100.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 25.301 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV013013.D

Acq: 30 Sep 2019 11:58

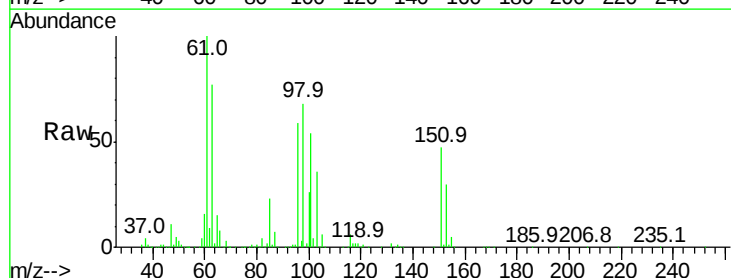
Tgt Ion: 96 Resp: 230807

Ion Ratio Lower Upper

96 100

61 168.2 117.7 218.7

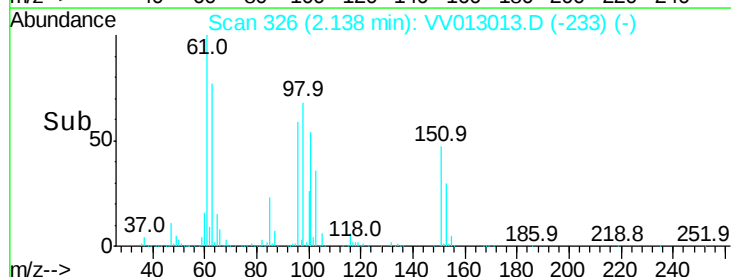
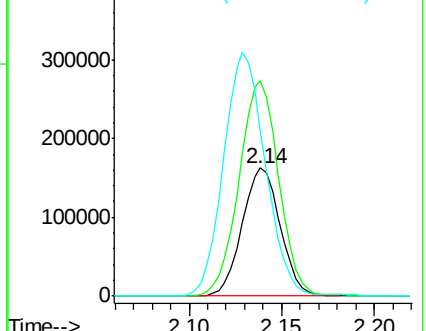
63 129.2 90.4 168.0

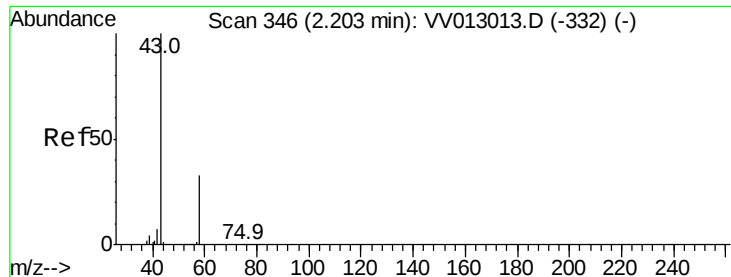


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 45.781 ug/L

RT: 2.20 min Scan# 346

Delta R.T. 0.00 min

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ClientSampleId :

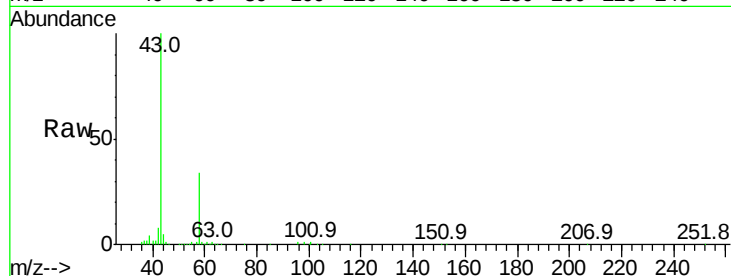
VSTD02564

Tgt Ion: 43 Resp: 194004

Ion Ratio Lower Upper

43 100

58 32.6 0.0 65.2



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

2.20

100000

80000

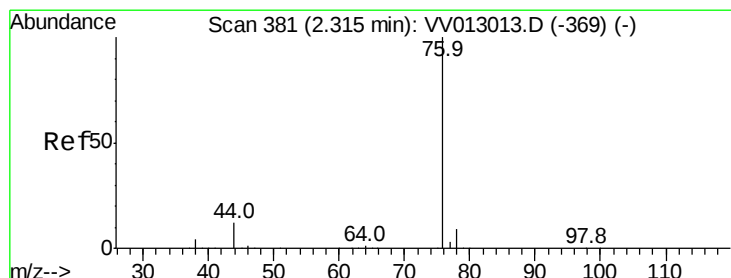
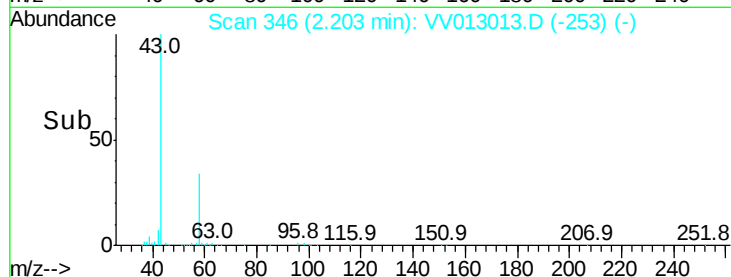
60000

40000

20000

0

Time--> 2.10 2.15 2.20 2.25 2.30



#14

Carbon disulfide

Concen: 25.833 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV013013.D

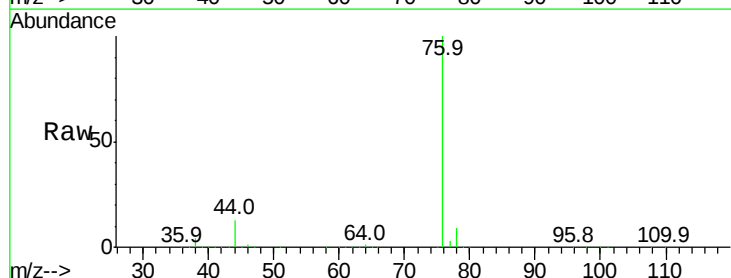
Acq: 30 Sep 2019 11:58

Tgt Ion: 76 Resp: 723272

Ion Ratio Lower Upper

76 100

78 8.9 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.32

500000

400000

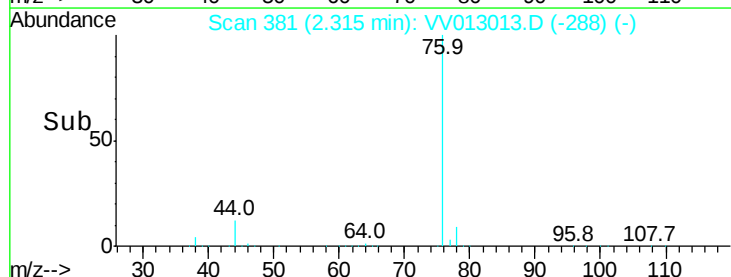
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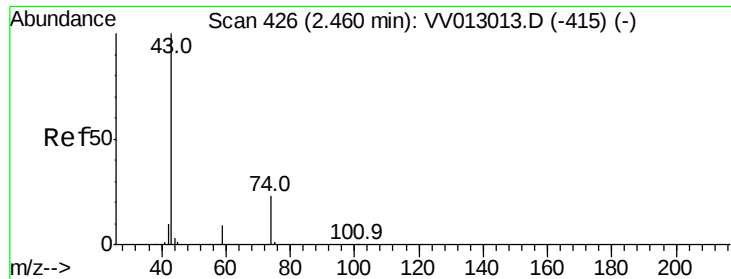
200000

100000

0

Time--> 2.30 2.40

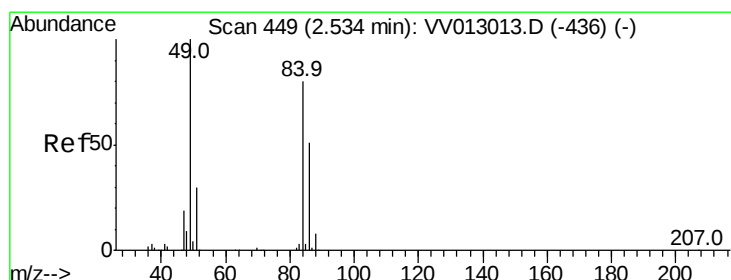
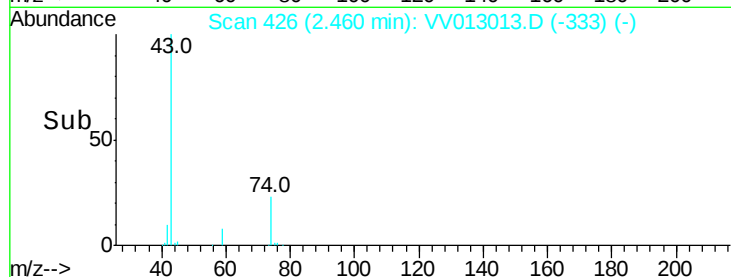
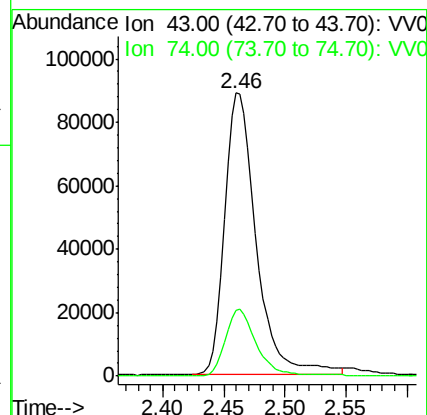
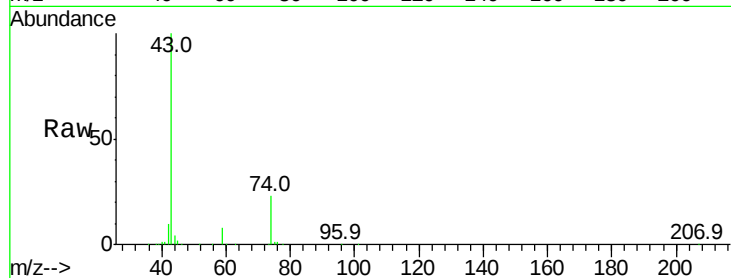




#15
Methyl Acetate
Concen: 24.859 ug/L
RT: 2.46 min Scan# 426
Delta R.T. 0.00 min
Lab File: VV013013.D
Acq: 30 Sep 2019 11:58

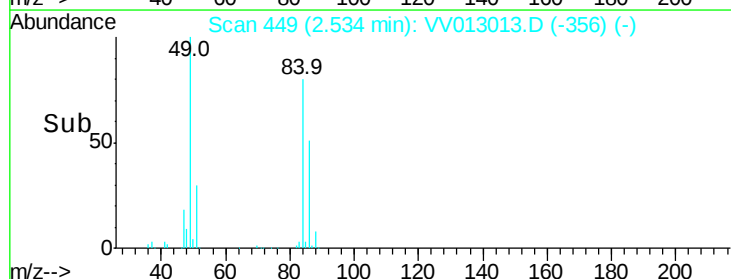
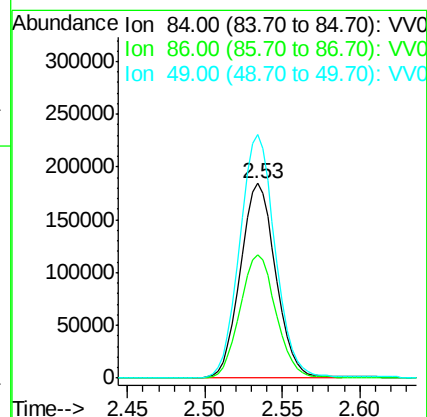
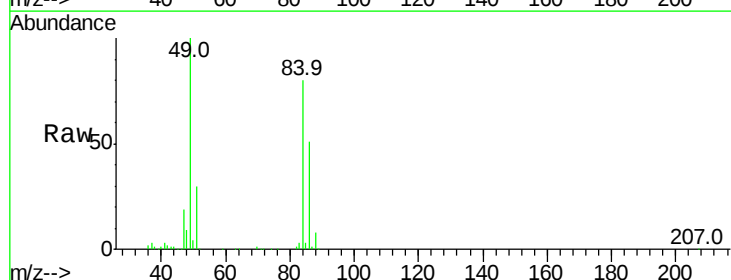
Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

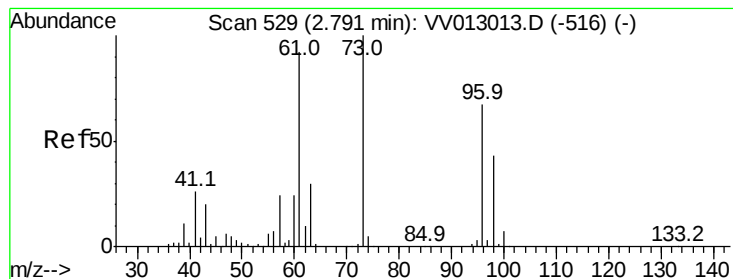
Tgt Ion: 43 Resp: 162571
Ion Ratio Lower Upper
43 100
74 23.1 18.5 27.7



#16
Methylene chloride
Concen: 22.565 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV013013.D
Acq: 30 Sep 2019 11:58

Tgt Ion: 84 Resp: 294168
Ion Ratio Lower Upper
84 100
86 63.6 44.5 82.7
49 125.0 87.5 162.5





#17

trans-1,2-Dichloroethene

Concen: 25.193 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV013013.D

Acq: 30 Sep 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

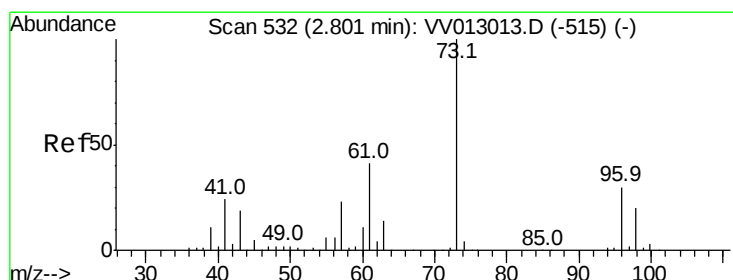
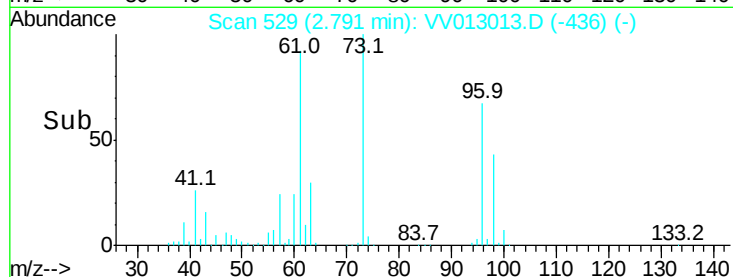
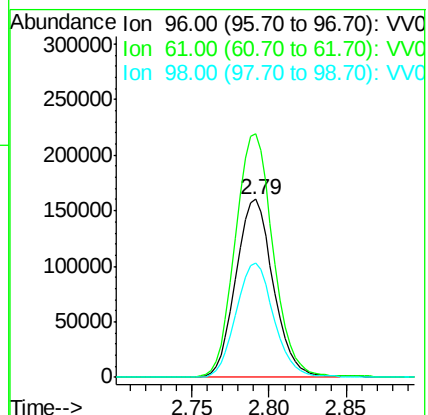
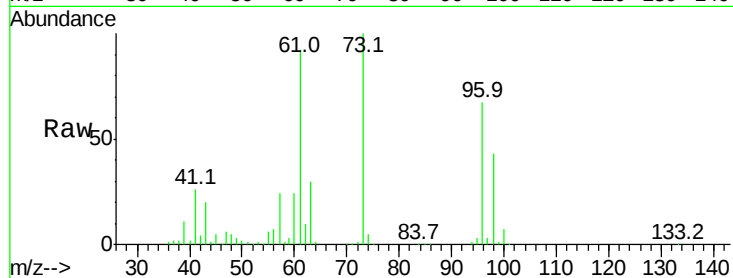
Tgt Ion: 96 Resp: 270914

Ion Ratio Lower Upper

96 100

61 136.8 95.8 177.8

98 64.4 45.1 83.7



#18

Methyl tert-butyl Ether

Concen: 25.364 ug/L

RT: 2.80 min Scan# 532

Delta R.T. 0.00 min

Lab File: VV013013.D

Acq: 30 Sep 2019 11:58

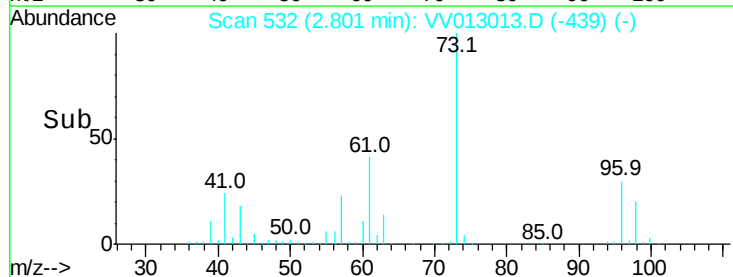
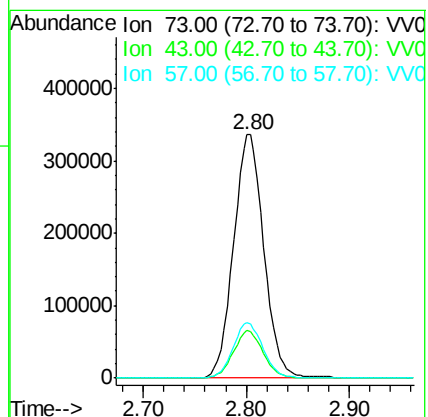
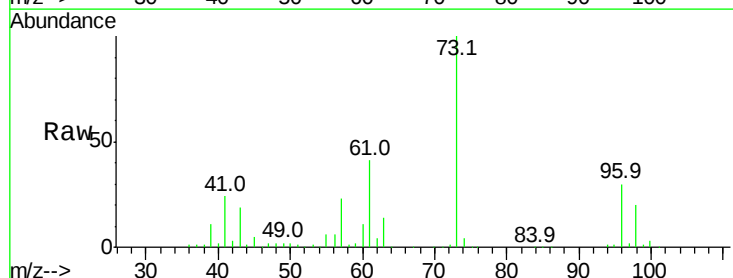
Tgt Ion: 73 Resp: 686114

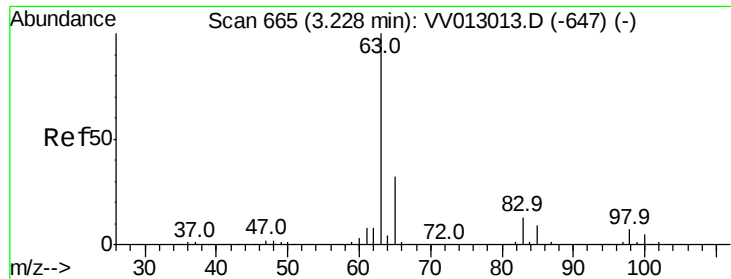
Ion Ratio Lower Upper

73 100

43 18.9 15.1 22.7

57 22.6 18.1 27.1

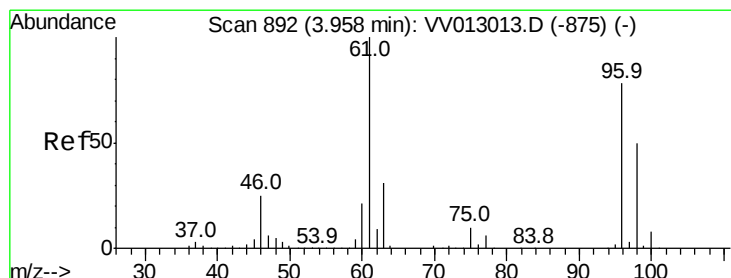
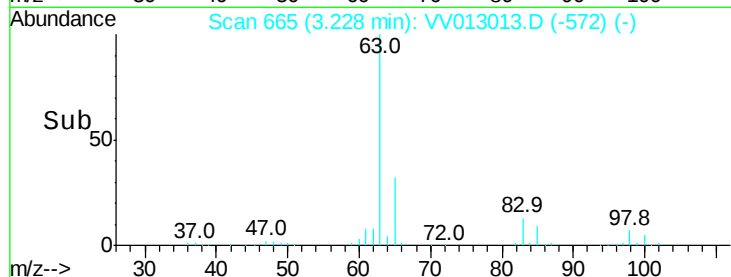
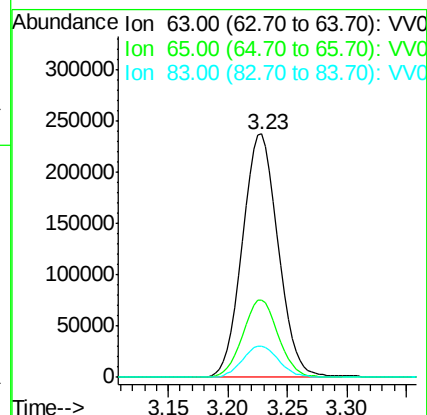
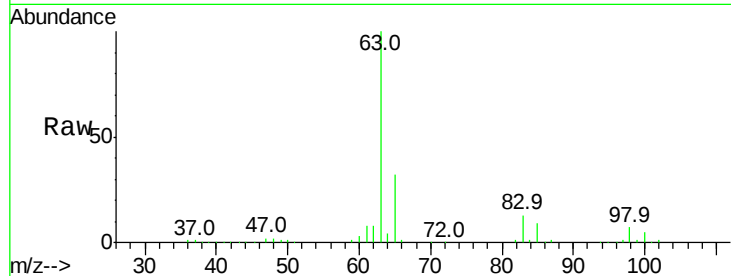




#19
 1,1-Dichloroethane
 Concen: 25.145 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV013013.D
 Acq: 30 Sep 2019 11:58

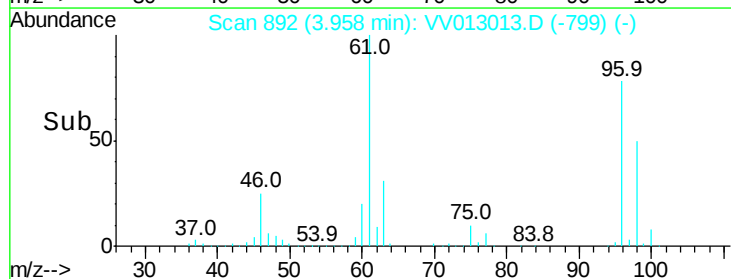
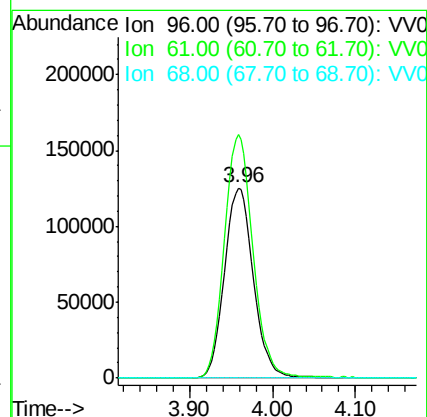
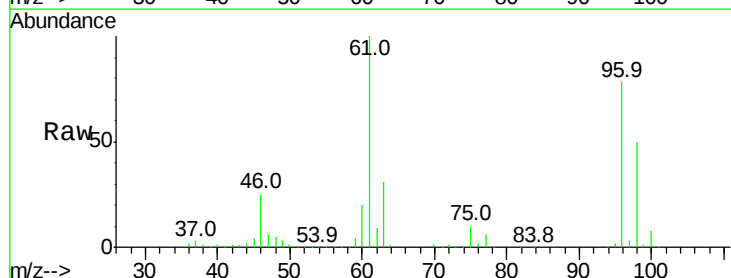
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

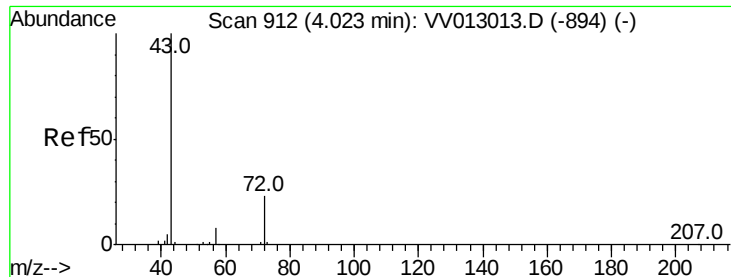
Tgt Ion: 63 Resp: 496258
 Ion Ratio Lower Upper
 63 100
 65 32.0 22.4 41.6
 83 12.8 9.0 16.6



#20
 cis-1,2-Dichloroethene
 Concen: 25.409 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: VV013013.D
 Acq: 30 Sep 2019 11:58

Tgt Ion: 96 Resp: 303895
 Ion Ratio Lower Upper
 96 100
 61 127.9 89.5 166.3
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 62.427 ug/L

RT: 4.02 min Scan# 912

Delta R.T. 0.00 min

Lab File: VV013013.D

Acq: 30 Sep 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

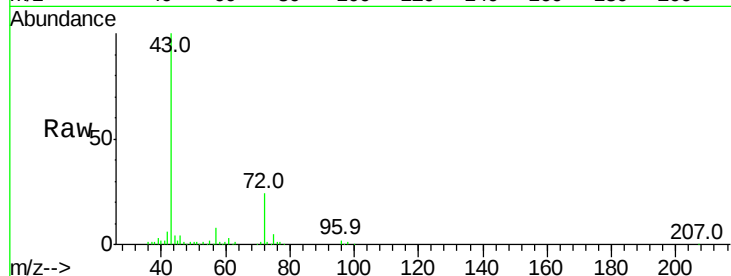
VSTD02564

Tgt Ion: 43 Resp: 228984

Ion Ratio Lower Upper

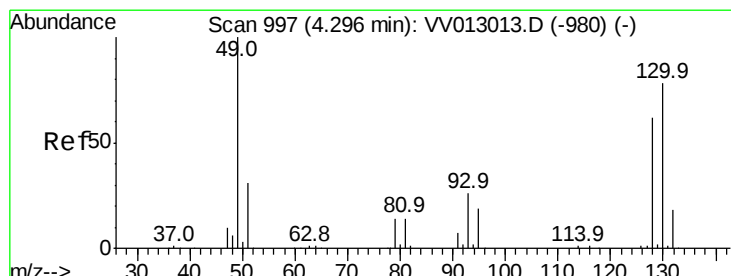
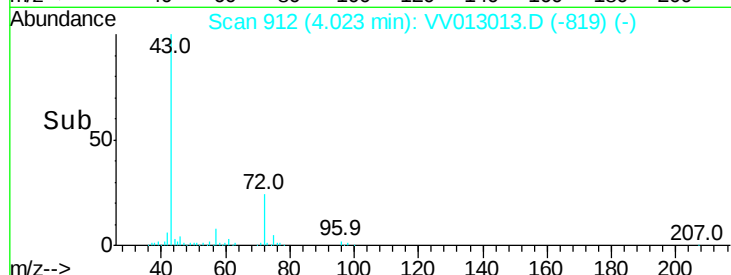
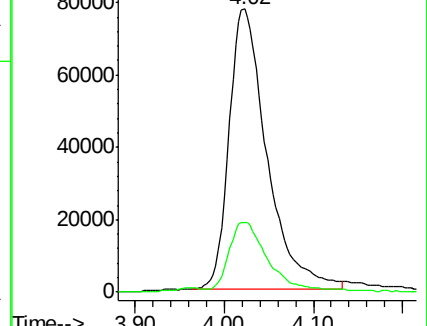
43 100

72 24.1 12.0 36.1



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 72.00 (71.70 to 72.70): VV0



#23

Bromochloromethane

Concen: 24.831 ug/L

RT: 4.30 min Scan# 997

Delta R.T. 0.00 min

Lab File: VV013013.D

Acq: 30 Sep 2019 11:58

Tgt Ion: 128 Resp: 145600

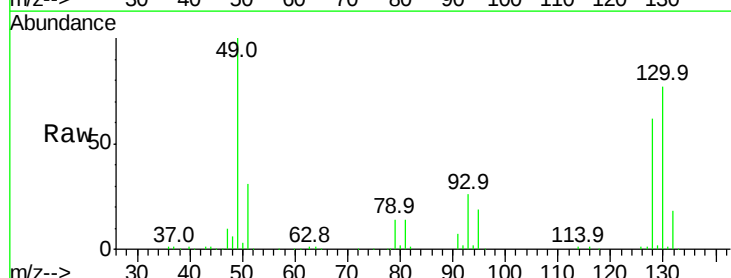
Ion Ratio Lower Upper

128 100

49 162.3 113.6 211.0

130 125.7 88.0 163.4

51 50.2 40.2 60.2

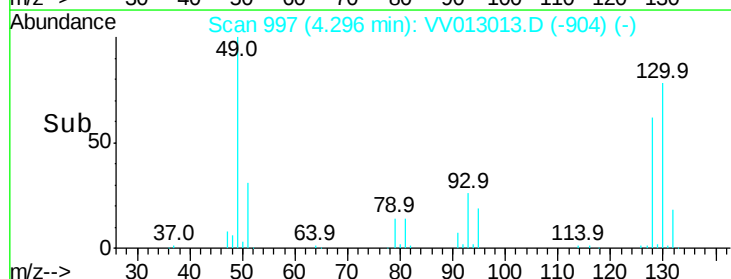
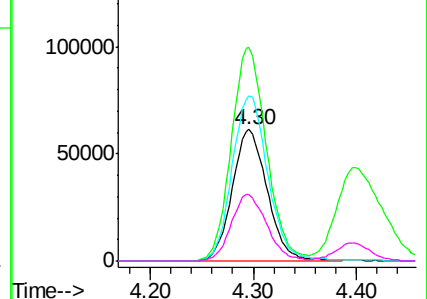


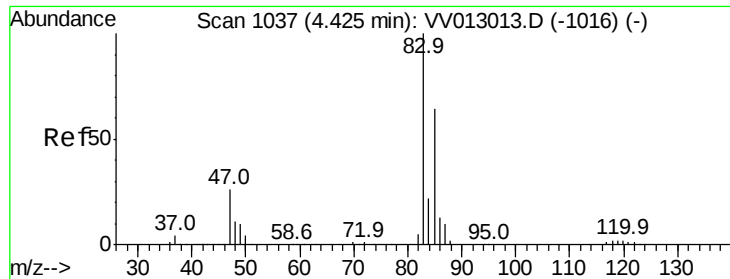
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VV0

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VV0





#25

Chloroform

Concen: 25.127 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VV013013.D

Acq: 30 Sep 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

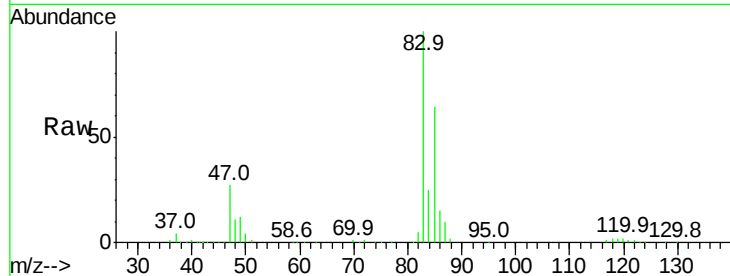
VSTD02564

Tgt Ion: 83 Resp: 517021

Ion Ratio Lower Upper

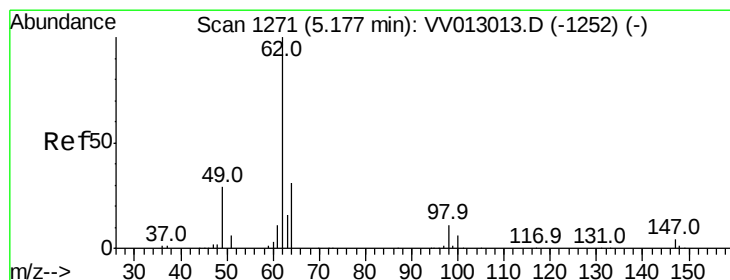
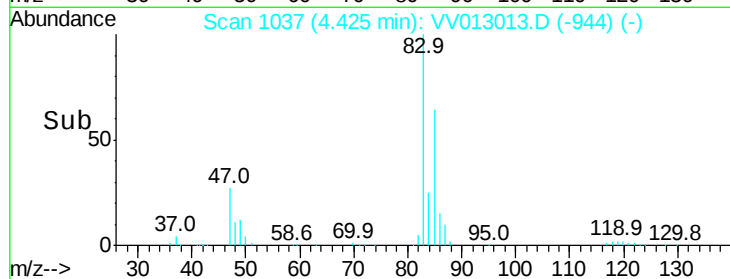
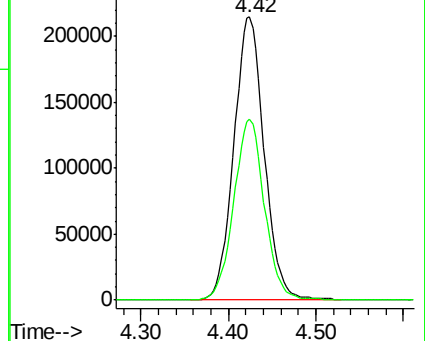
83 100

85 63.8 44.7 82.9



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#27

1,2-Dichloroethane

Concen: 25.238 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VV013013.D

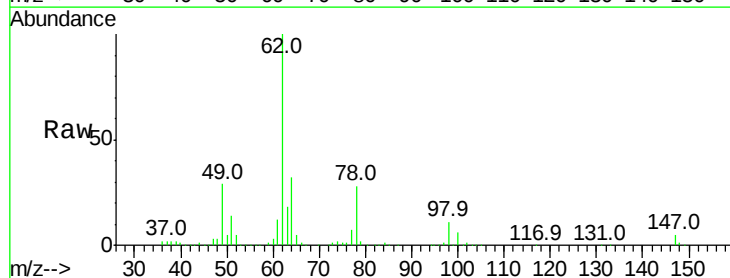
Acq: 30 Sep 2019 11:58

Tgt Ion: 62 Resp: 356984

Ion Ratio Lower Upper

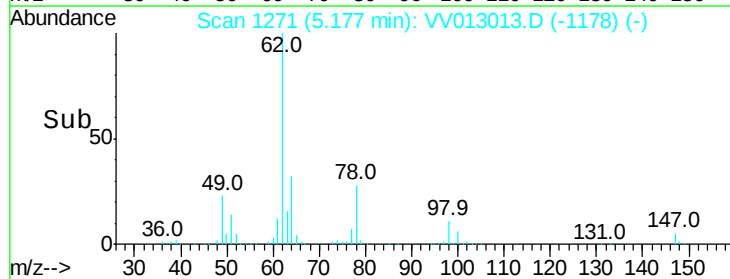
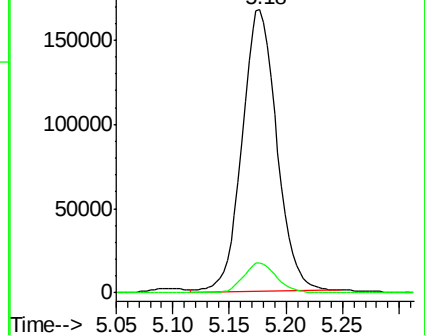
62 100

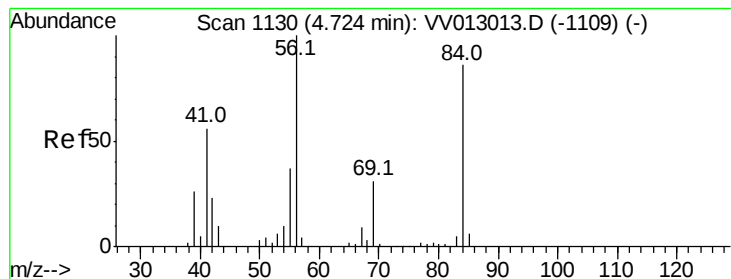
98 10.6 8.5 12.7



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#29

Cyclohexane

Concen: 25.977 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV013013.D

Acq: 30 Sep 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

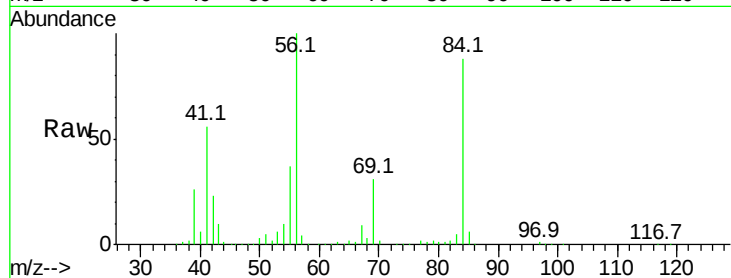
Tgt Ion: 56 Resp: 451194

Ion Ratio Lower Upper

56 100

69 30.3 24.2 36.4

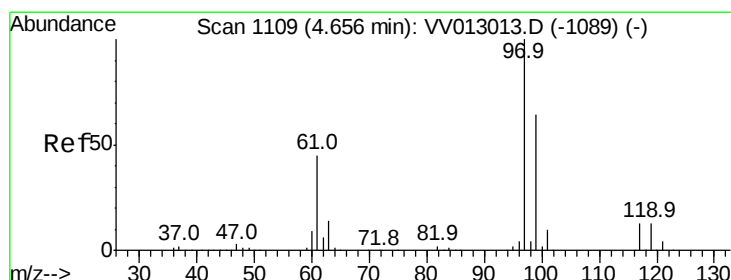
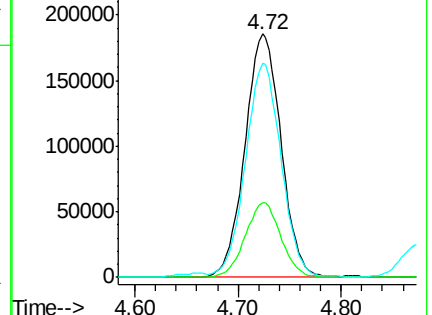
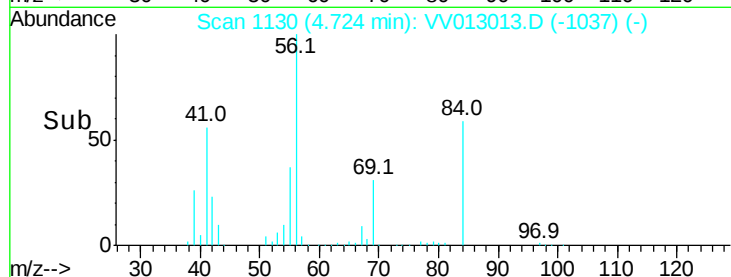
84 87.0 69.6 104.4



Abundance Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0



#30

1,1,1-Trichloroethane

Concen: 25.342 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV013013.D

Acq: 30 Sep 2019 11:58

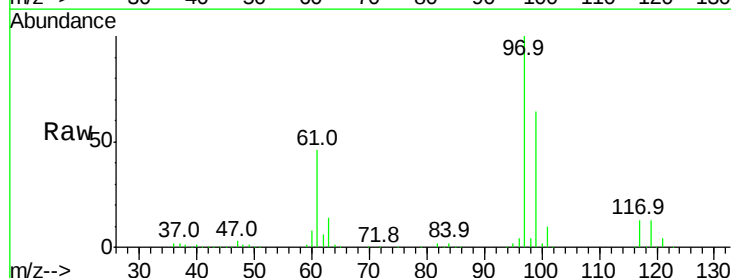
Tgt Ion: 97 Resp: 408391

Ion Ratio Lower Upper

97 100

99 64.6 51.7 77.5

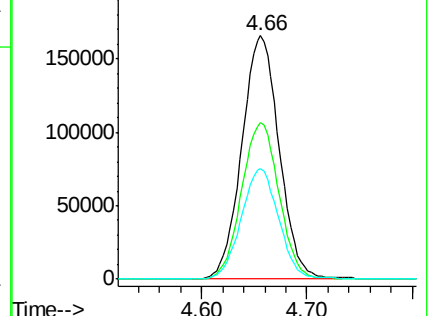
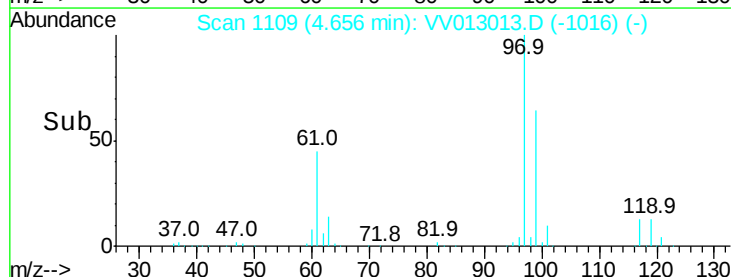
61 45.1 36.1 54.1

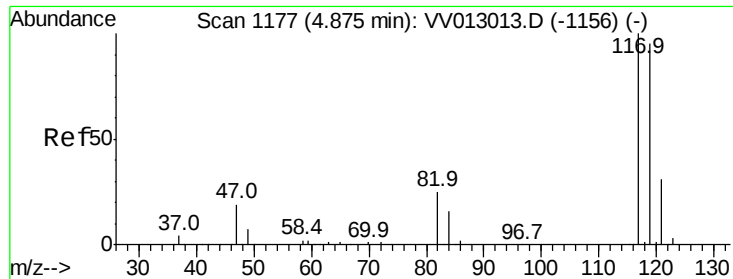


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

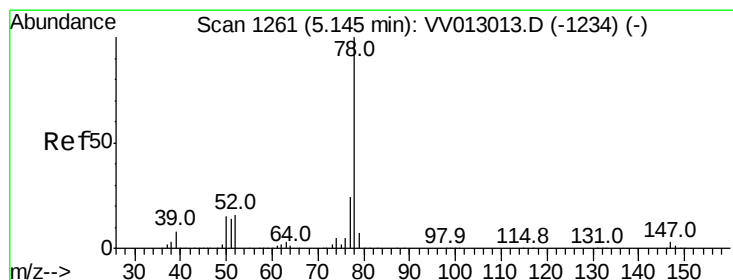
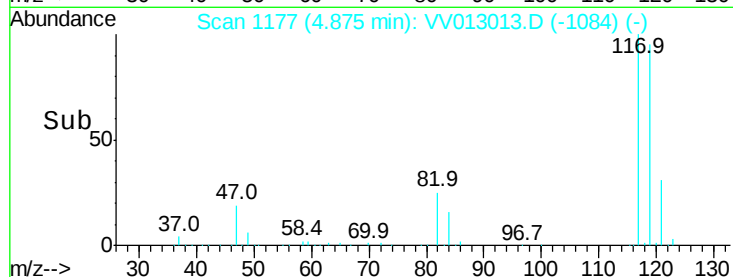
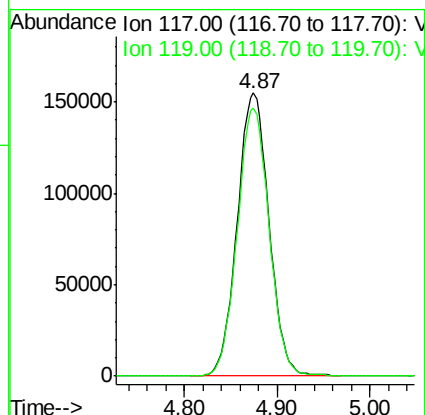
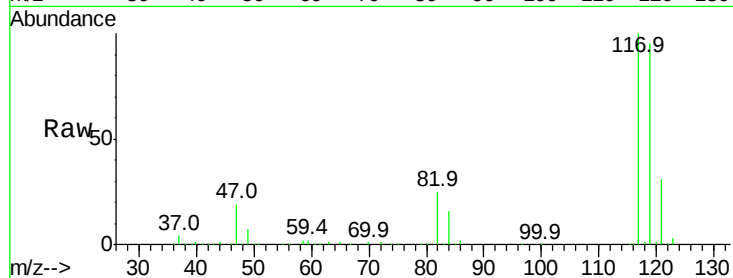




#31
Carbon tetrachloride
Concen: 25.388 ug/L
RT: 4.87 min Scan# 1177
Delta R.T. 0.00 min
Lab File: VV013013.D
Acq: 30 Sep 2019 11:58

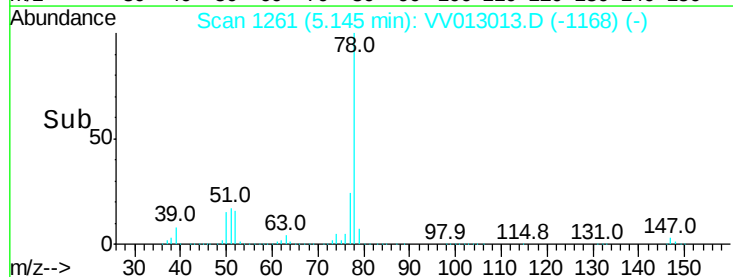
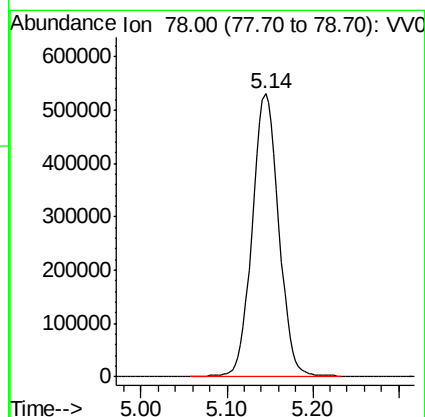
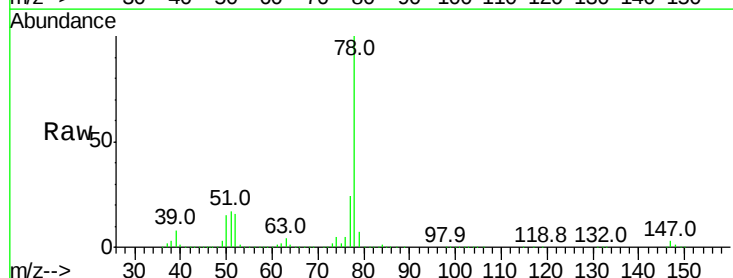
Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

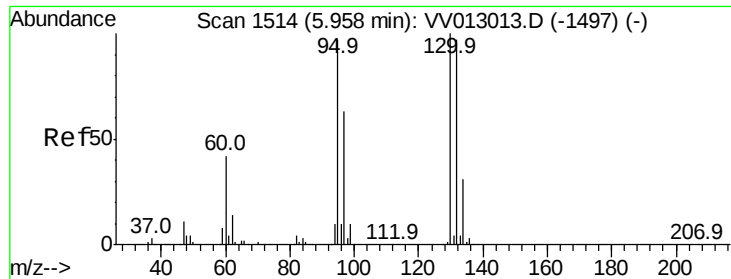
Tgt Ion:117 Resp: 368299
Ion Ratio Lower Upper
117 100
119 95.1 76.1 114.1



#33
Benzene
Concen: 25.373 ug/L
RT: 5.14 min Scan# 1261
Delta R.T. 0.00 min
Lab File: VV013013.D
Acq: 30 Sep 2019 11:58

Tgt Ion: 78 Resp: 1144519

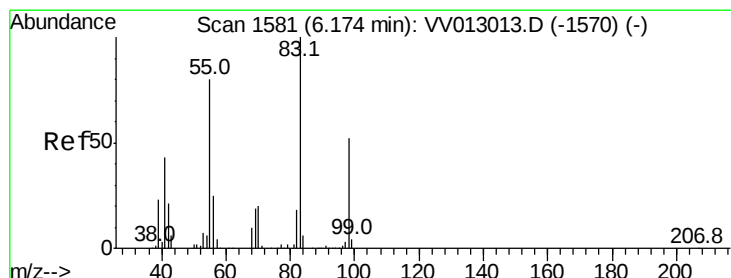
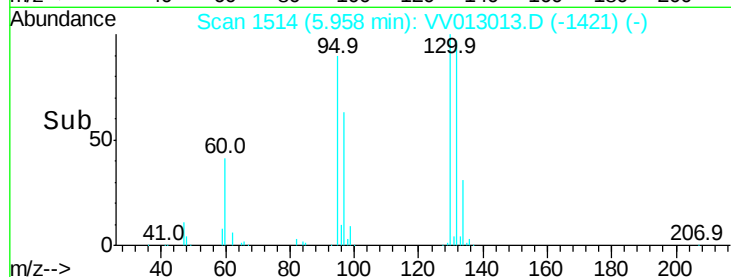
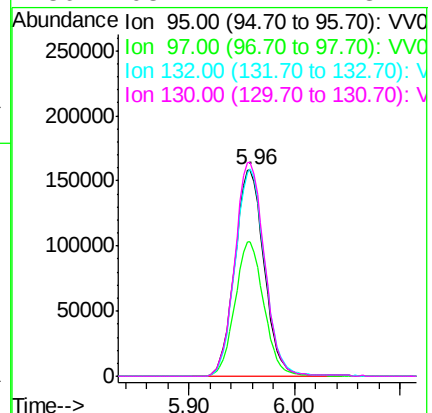
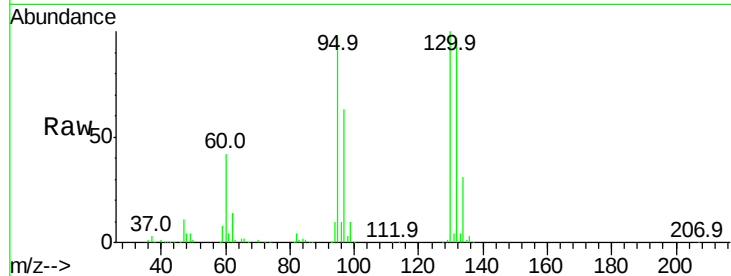




#34
 Trichloroethene
 Concen: 25.030 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV013013.D
 Acq: 30 Sep 2019 11:58

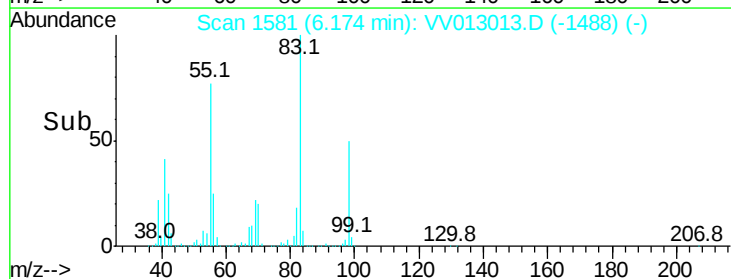
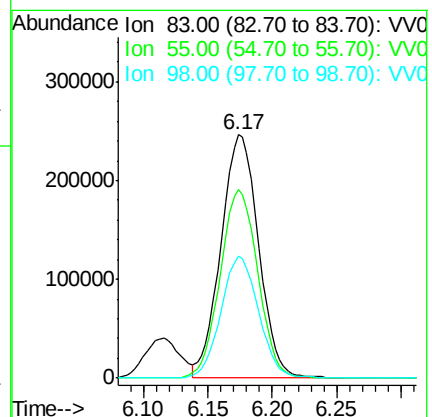
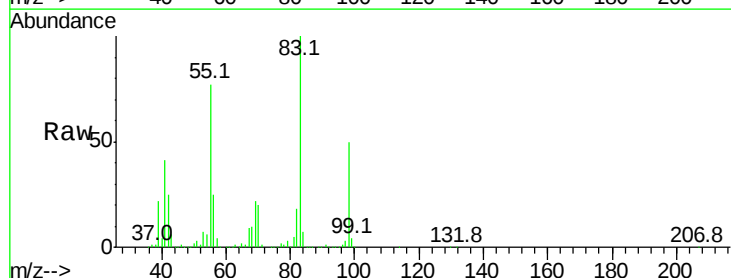
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

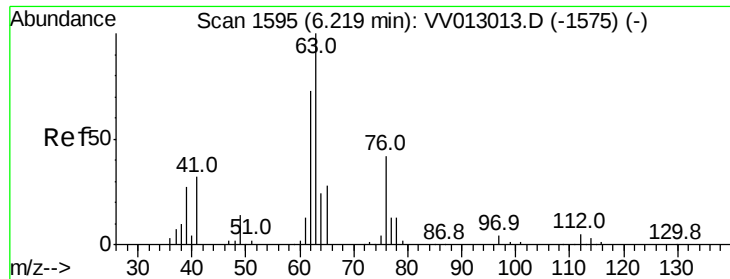
Tgt Ion:	95	Resp:	305854
Ion	Ratio	Lower	Upper
95	100		
97	64.8	45.4	84.2
132	100.2	70.1	130.3
130	103.4	72.4	134.4



#35
 Methylcyclohexane
 Concen: 26.027 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: VV013013.D
 Acq: 30 Sep 2019 11:58

Tgt Ion:	83	Resp:	499196
Ion	Ratio	Lower	Upper
83	100		
55	77.4	61.9	92.9
98	50.0	40.0	60.0

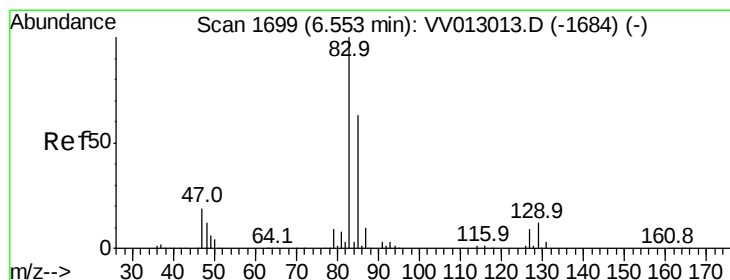
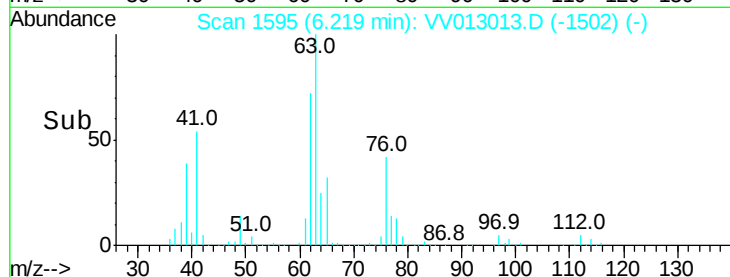
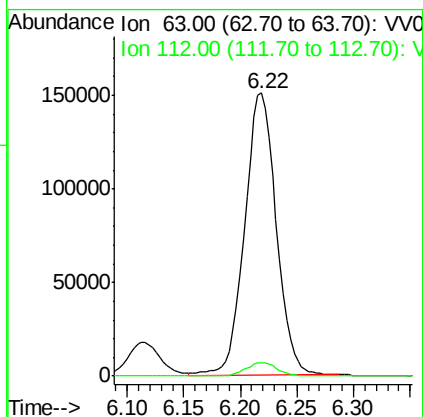
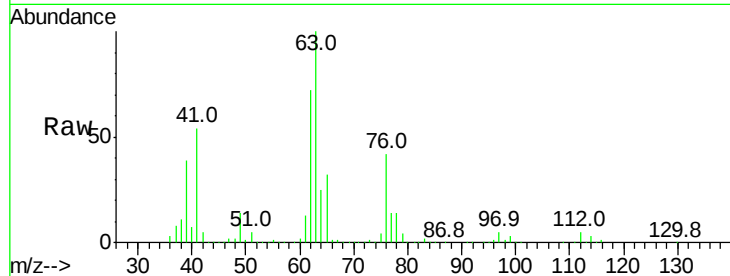




#37
 1,2-Dichloropropane
 Concen: 25.309 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV013013.D
 Acq: 30 Sep 2019 11:58

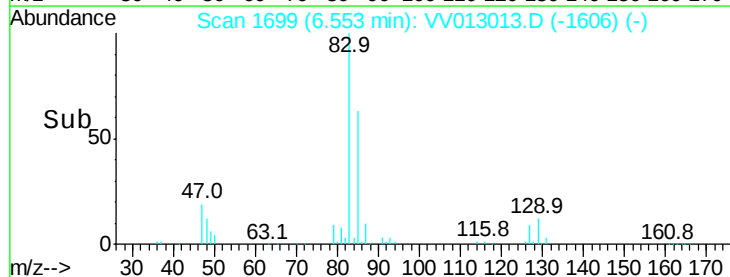
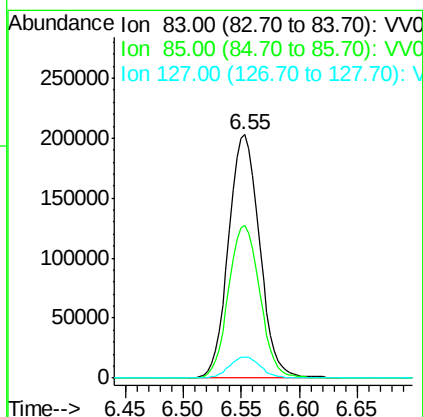
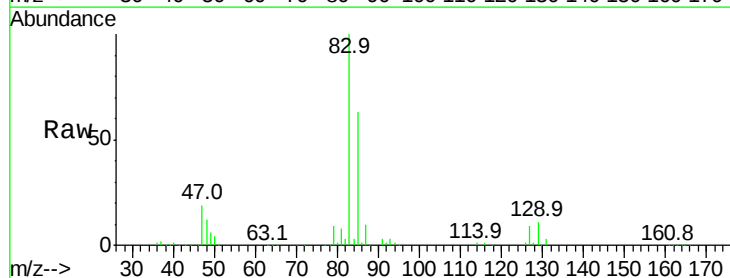
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

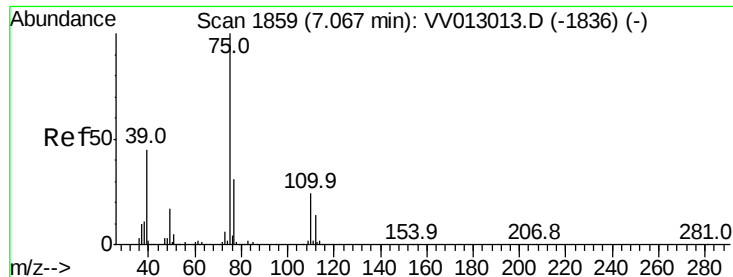
Tgt Ion: 63 Resp: 292928
 Ion Ratio Lower Upper
 63 100
 112 4.8 3.8 5.8



#38
 Bromodichloromethane
 Concen: 25.004 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV013013.D
 Acq: 30 Sep 2019 11:58

Tgt Ion: 83 Resp: 377760
 Ion Ratio Lower Upper
 83 100
 85 62.7 43.9 81.5
 127 8.8 7.0 10.6





#39

cis-1,3-Dichloropropene

Concen: 26.002 ug/L

RT: 7.07 min Scan# 1859

Delta R.T. 0.00 min

Lab File: VV013013.D

Acq: 30 Sep 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

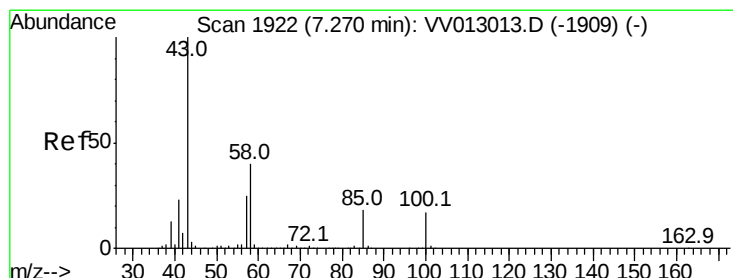
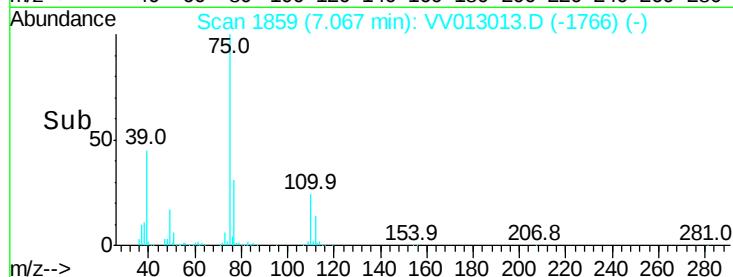
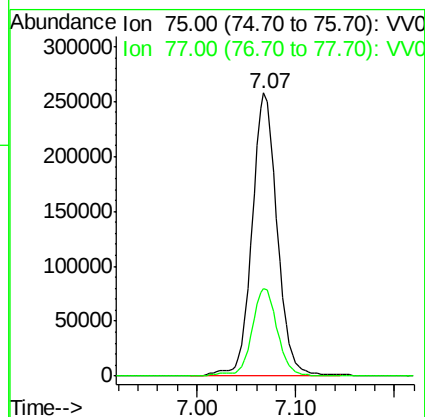
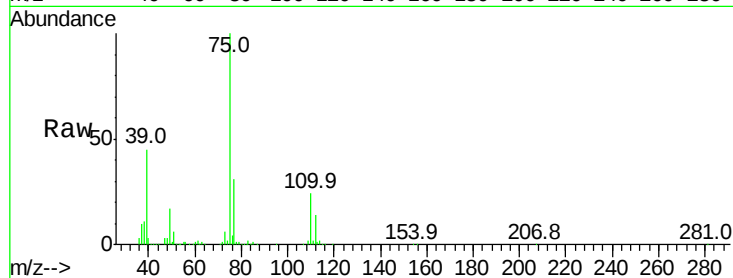
VSTD02564

Tgt Ion: 75 Resp: 453147

Ion Ratio Lower Upper

75 100

77 31.1 21.8 40.4



#40

4-Methyl-2-pentanone

Concen: 49.214 ug/L

RT: 7.27 min Scan# 1922

Delta R.T. 0.00 min

Lab File: VV013013.D

Acq: 30 Sep 2019 11:58

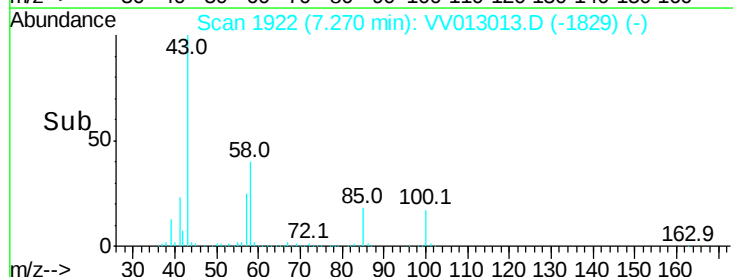
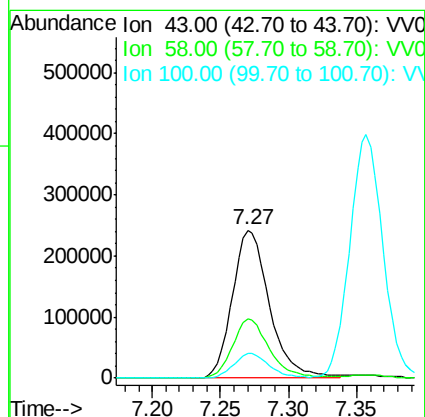
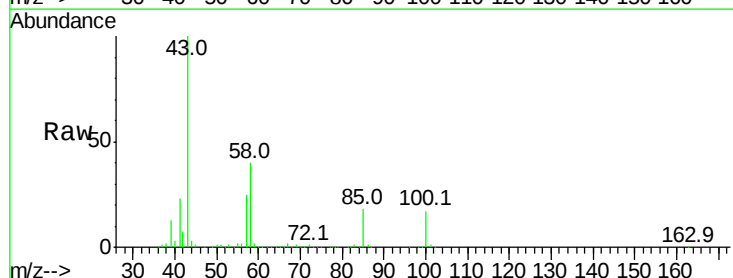
Tgt Ion: 43 Resp: 455239

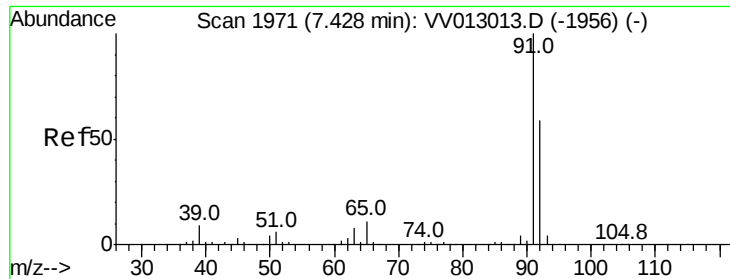
Ion Ratio Lower Upper

43 100

58 39.8 31.8 47.8

100 16.0 12.8 19.2





#42

Toluene

Concen: 25.930 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV013013.D

Acq: 30 Sep 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

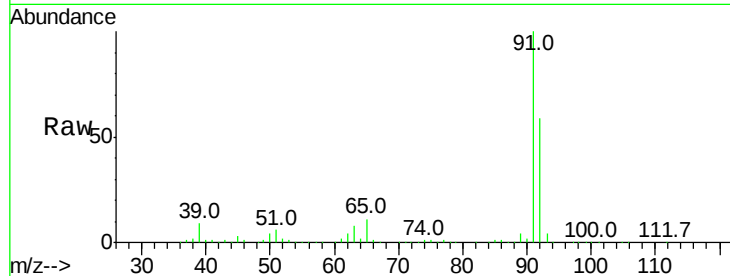
VSTD02564

Tgt Ion: 91 Resp: 1243970

Ion Ratio Lower Upper

91 100

92 58.7 41.1 76.3



Abundance Ion 91.00 (90.70 to 91.70): VV013013.D (-1956) (-)

Ion 92.00 (91.70 to 92.70): VV013013.D (-1956) (-)

7.43

800000

600000

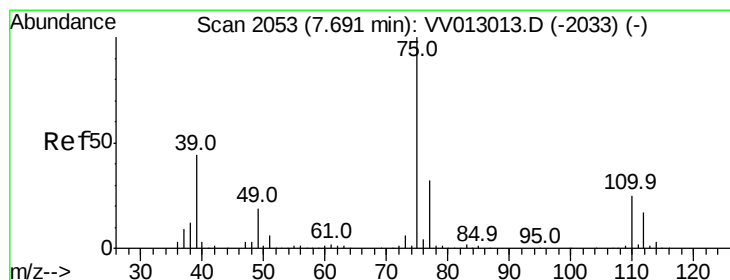
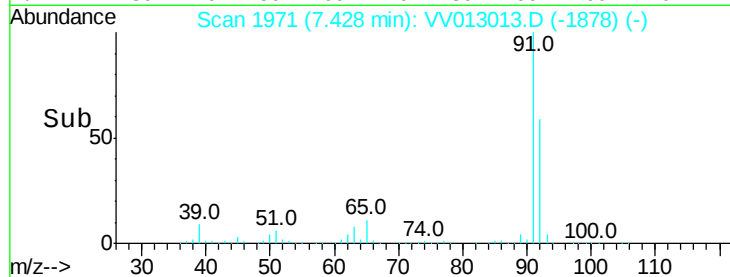
400000

200000

0

7.40 7.50

Time-->



#44

trans-1,3-Dichloropropene

Concen: 25.965 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV013013.D

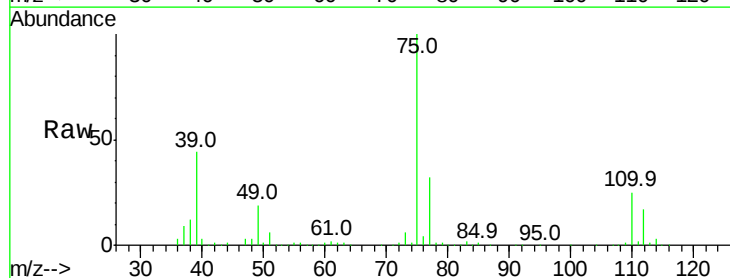
Acq: 30 Sep 2019 11:58

Tgt Ion: 75 Resp: 371551

Ion Ratio Lower Upper

75 100

77 31.6 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VV013013.D (-2033) (-)

Ion 77.00 (76.70 to 77.70): VV013013.D (-2033) (-)

7.69

250000

200000

150000

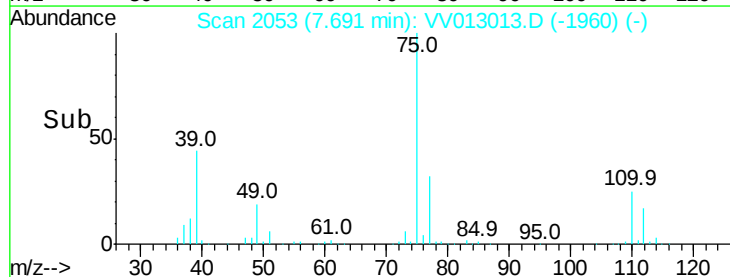
100000

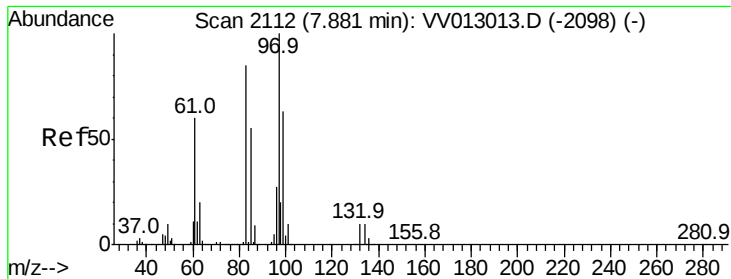
50000

0

7.60 7.70 7.80

Time-->





#45

1,1,2-Trichloroethane

Concen: 25.077 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV013013.D

Acq: 30 Sep 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

Tgt Ion: 97 Resp: 246215

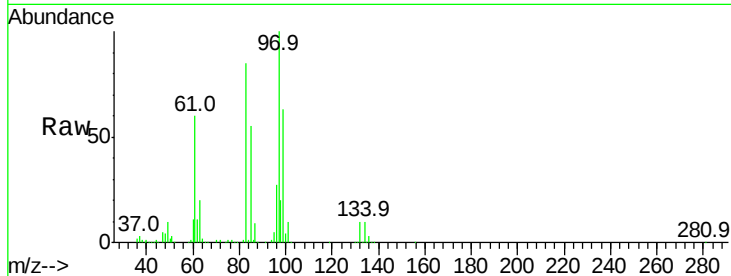
Ion Ratio Lower Upper

97 100

99 63.2 44.2 82.2

83 85.3 59.7 110.9

85 55.1 38.6 71.6

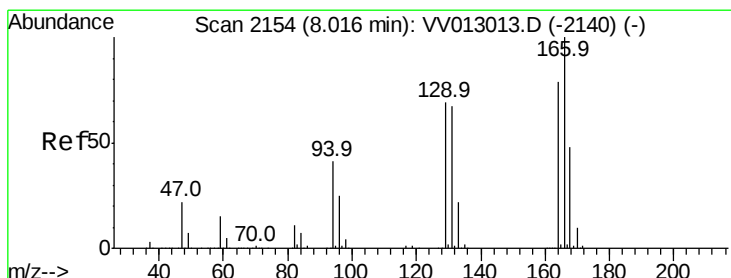
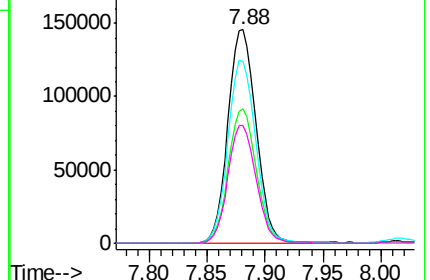
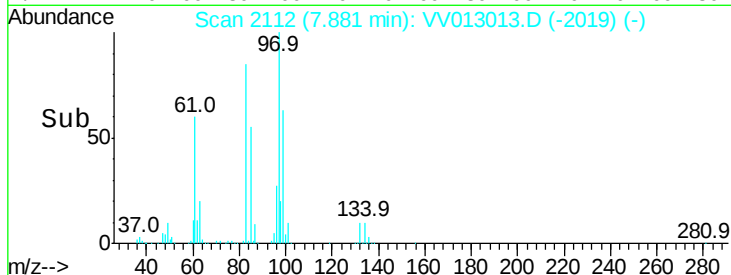


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46

Tetrachloroethene

Concen: 25.365 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV013013.D

Acq: 30 Sep 2019 11:58

Tgt Ion: 164 Resp: 256452

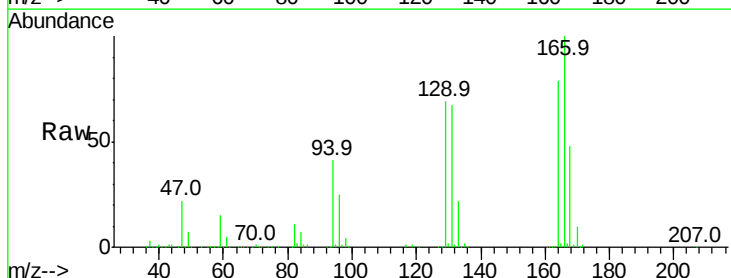
Ion Ratio Lower Upper

164 100

129 87.4 61.2 113.6

131 85.6 59.9 111.3

166 127.3 89.1 165.5

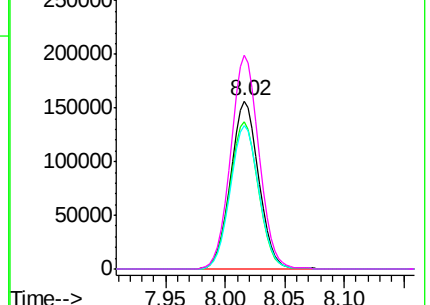
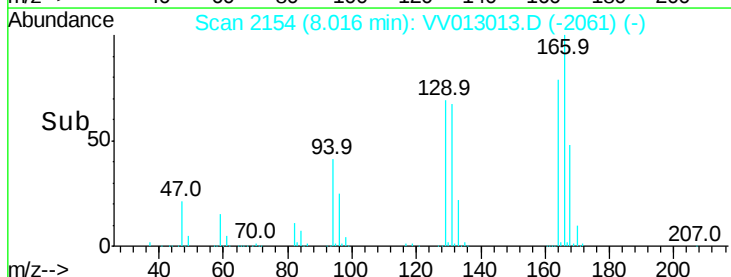


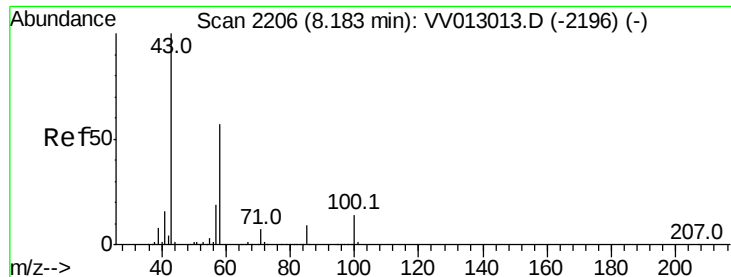
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

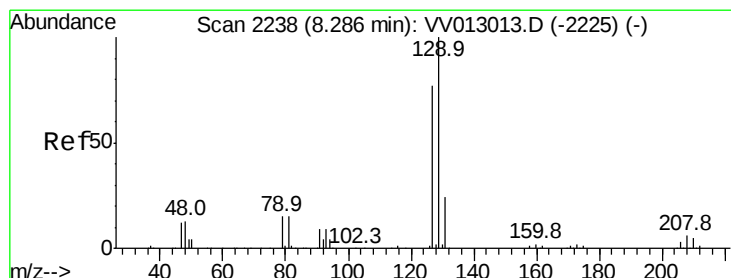
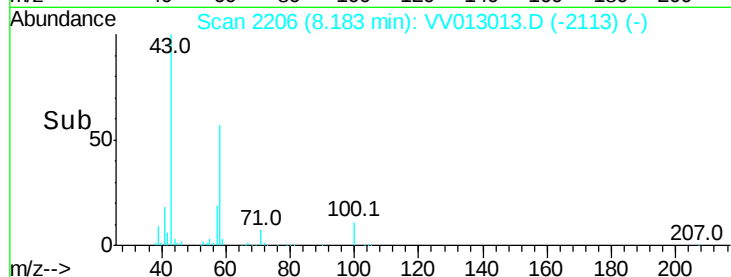
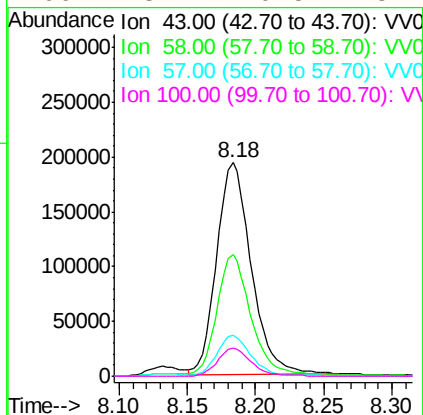
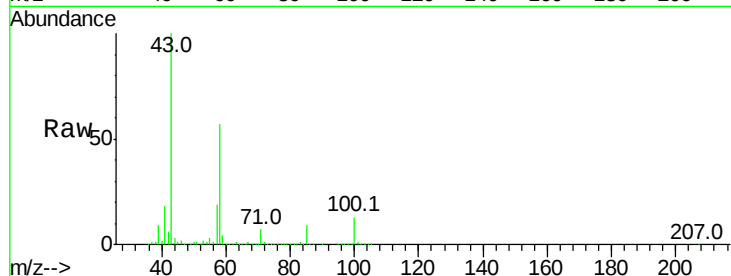




#48
2-Hexanone
Concen: 50.653 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV013013.D
Acq: 30 Sep 2019 11:58

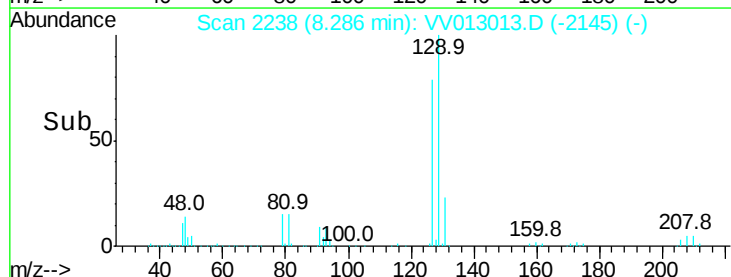
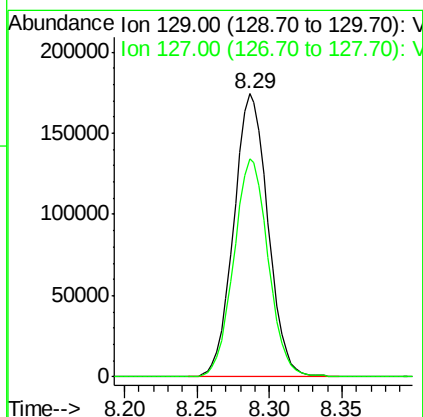
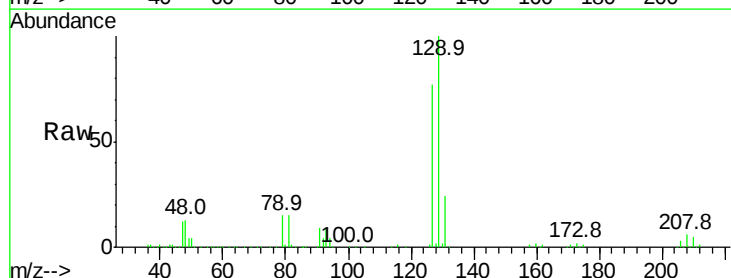
Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

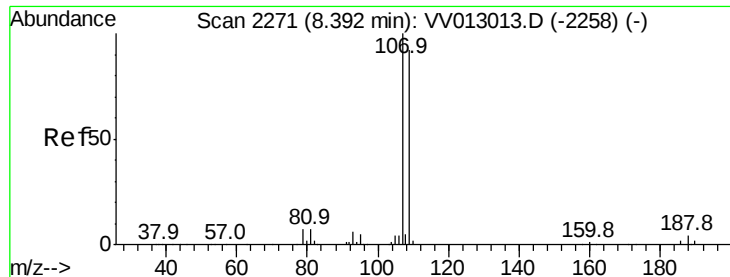
Tgt Ion: 43 Resp: 341176
Ion Ratio Lower Upper
43 100
58 56.1 44.9 67.3
57 19.0 15.2 22.8
100 13.1 10.5 15.7



#49
Dibromochloromethane
Concen: 25.496 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VV013013.D
Acq: 30 Sep 2019 11:58

Tgt Ion: 129 Resp: 285444
Ion Ratio Lower Upper
129 100
127 77.0 53.9 100.1

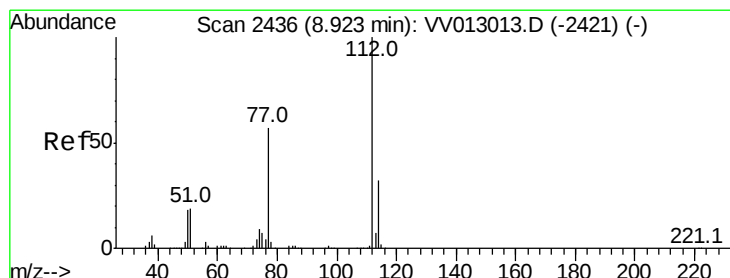
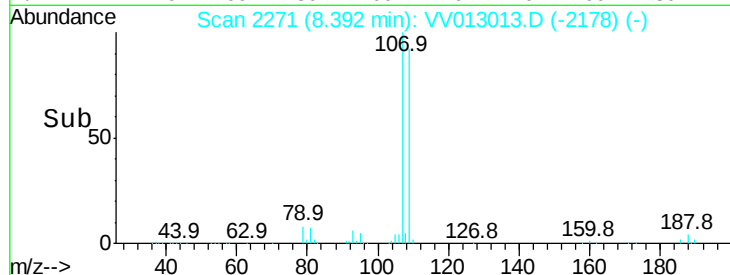
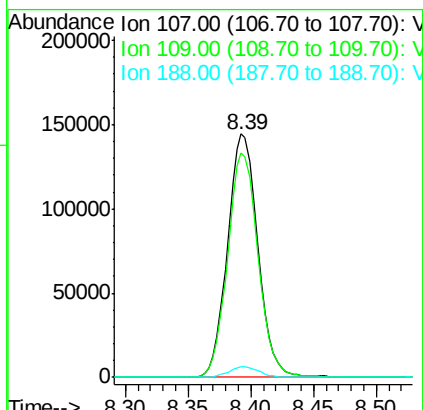
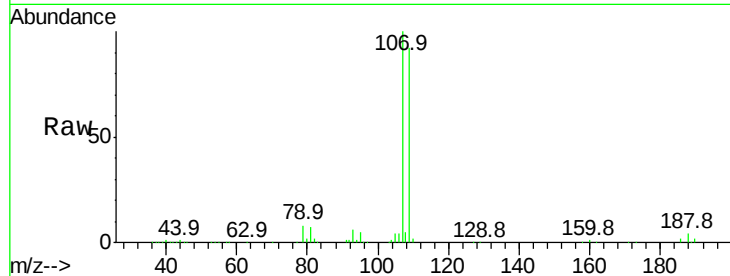




#50
1,2-Dibromoethane
Concen: 25.010 ug/L
RT: 8.39 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VV013013.D
Acq: 30 Sep 2019 11:58

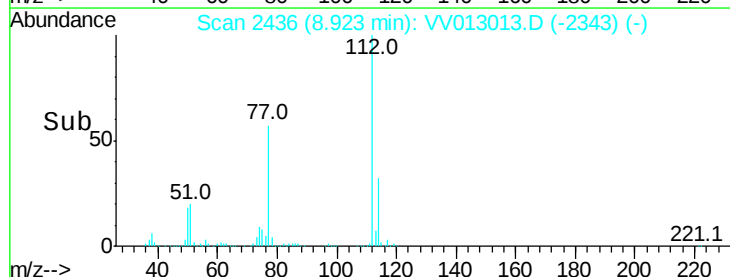
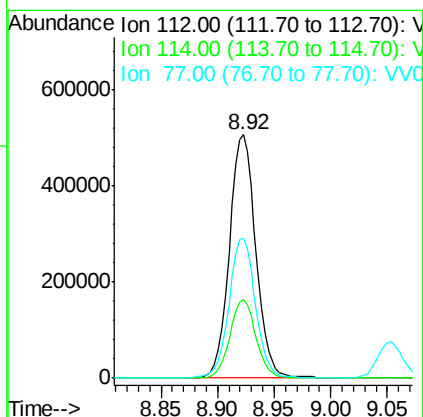
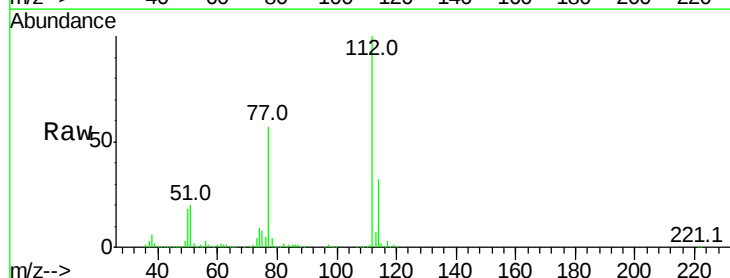
Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

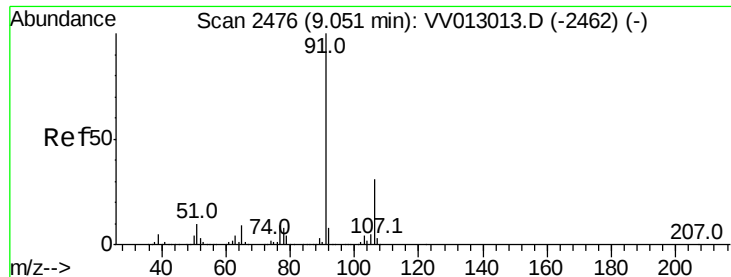
Tgt Ion	Ratio	Lower	Upper
107	100		
109	92.4	64.7	120.1
188	4.6	3.7	5.5



#51
Chlorobenzene
Concen: 25.238 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV013013.D
Acq: 30 Sep 2019 11:58

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.4	22.7	42.1
77	57.4	45.9	68.9





#52

Ethylbenzene

Concen: 26.075 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV013013.D

Acq: 30 Sep 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

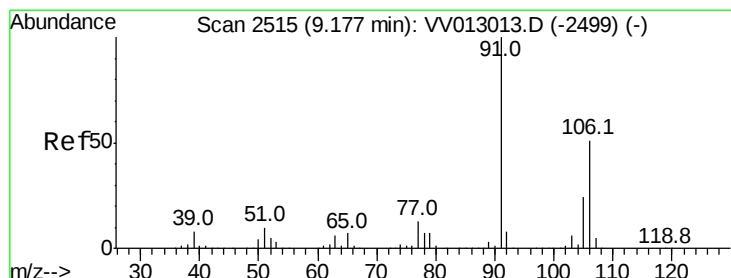
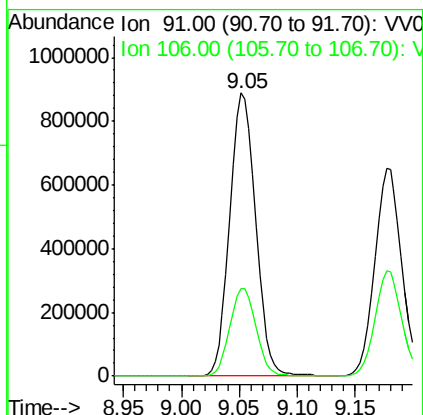
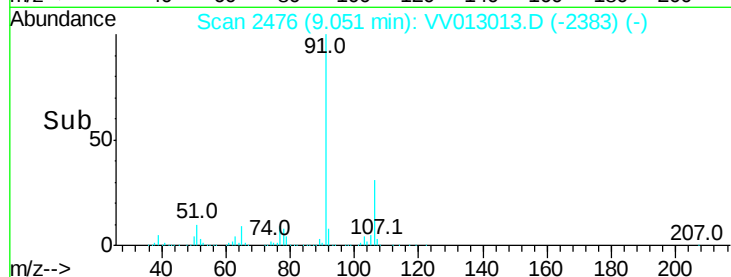
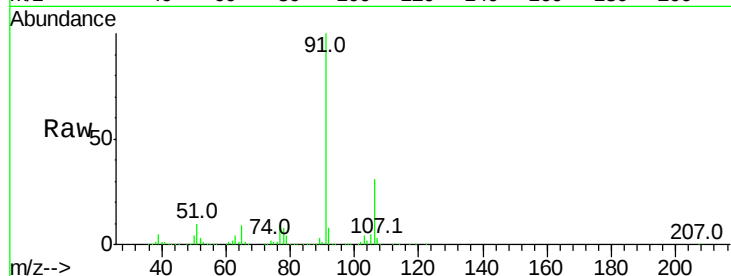
VSTD02564

Tgt Ion: 91 Resp: 1374197

Ion Ratio Lower Upper

91 100

106 31.1 21.8 40.4



#53

m,p-Xylene

Concen: 26.464 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV013013.D

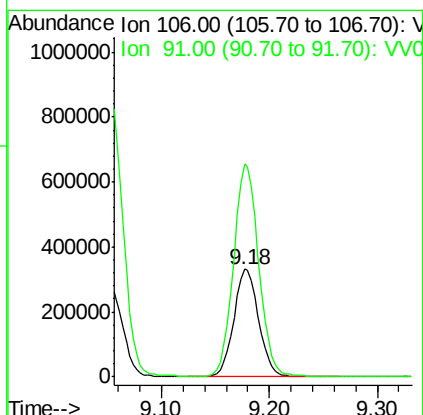
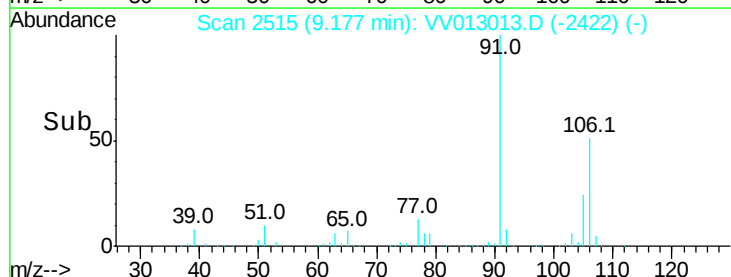
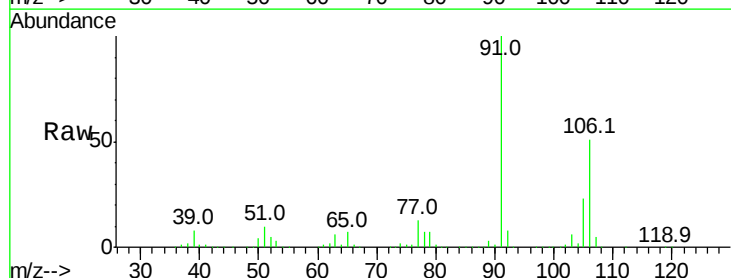
Acq: 30 Sep 2019 11:58

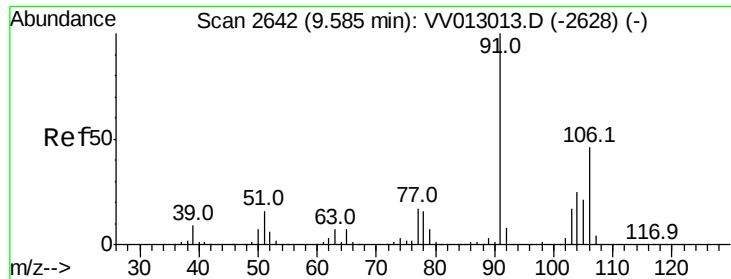
Tgt Ion: 106 Resp: 533145

Ion Ratio Lower Upper

106 100

91 197.1 138.0 256.2





#54

o-Xylene

Concen: 26.518 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV013013.D

Acq: 30 Sep 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

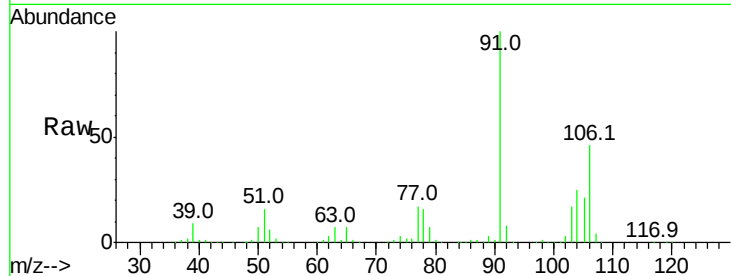
VSTD02564

Tgt Ion:106 Resp: 511097

Ion Ratio Lower Upper

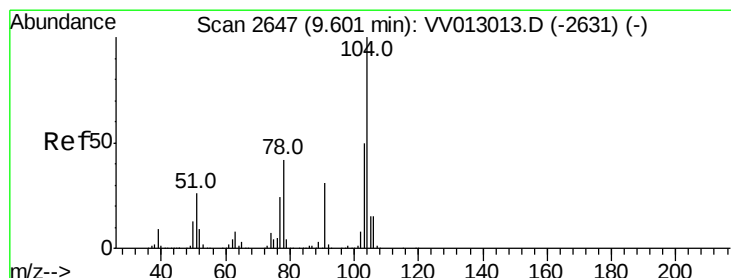
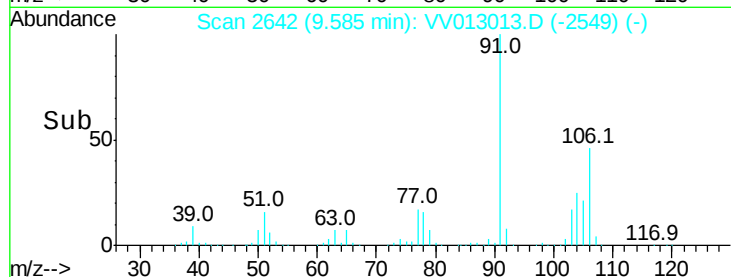
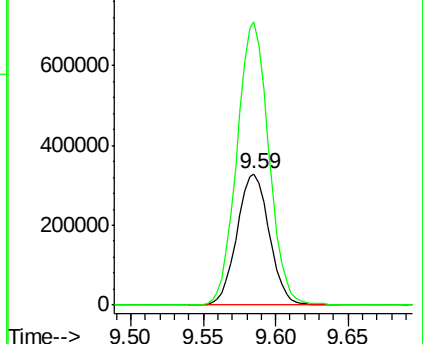
106 100

91 215.5 150.8 280.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 26.835 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV013013.D

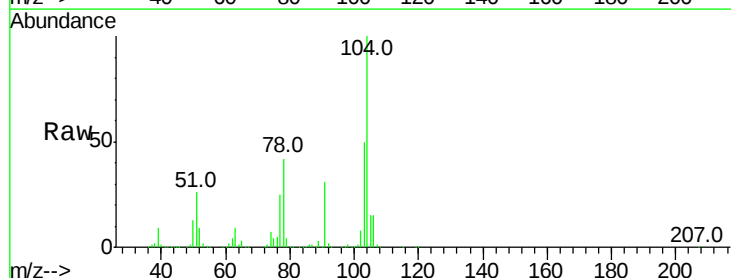
Acq: 30 Sep 2019 11:58

Tgt Ion:104 Resp: 905527

Ion Ratio Lower Upper

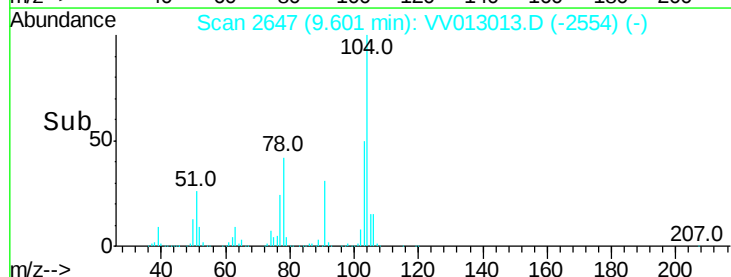
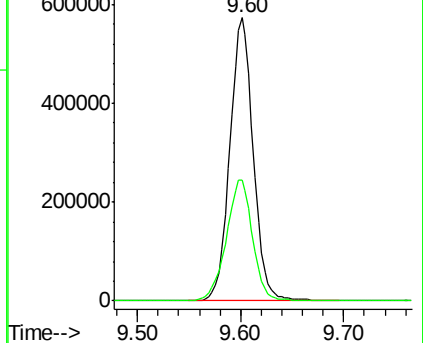
104 100

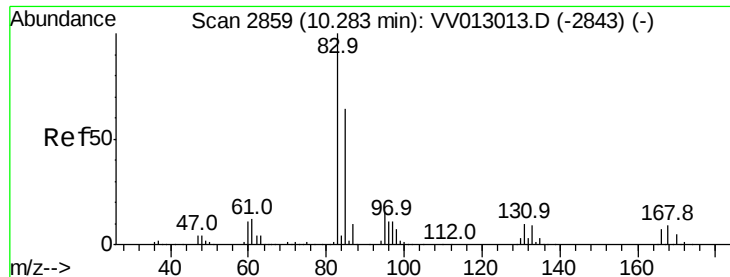
78 42.5 29.8 55.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0

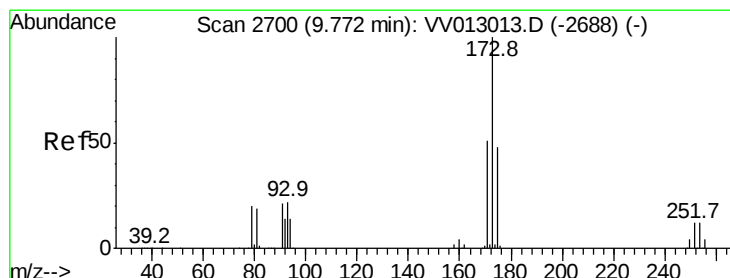
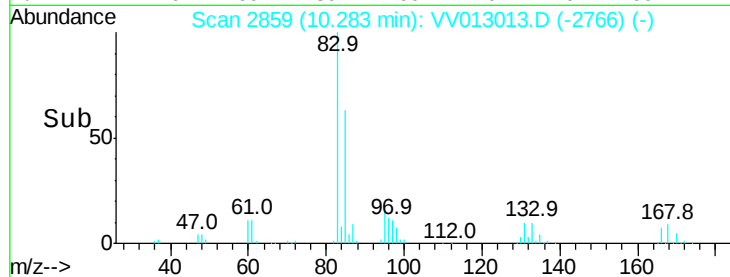
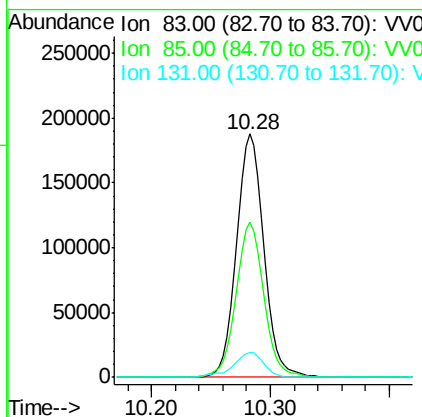
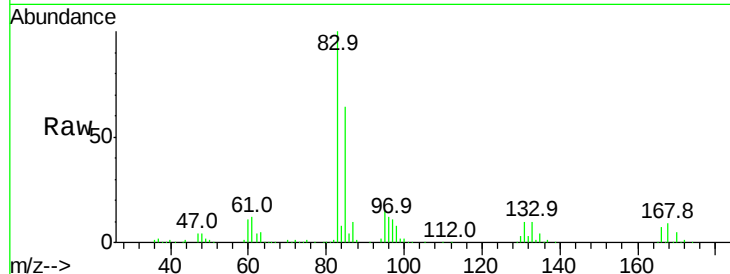




#57
 1,1,2,2-Tetrachloroethane
 Concen: 25.027 ug/L
 RT: 10.28 min Scan# 2859
 Delta R.T. 0.00 min
 Lab File: VV013013.D
 Acq: 30 Sep 2019 11:58

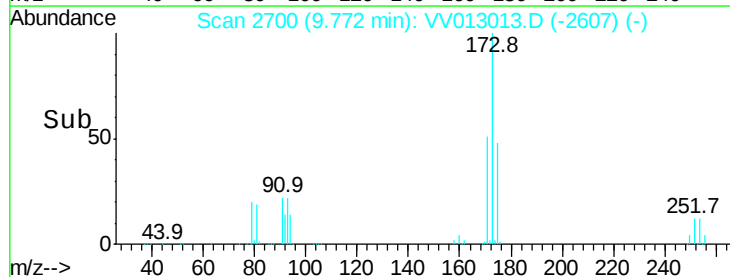
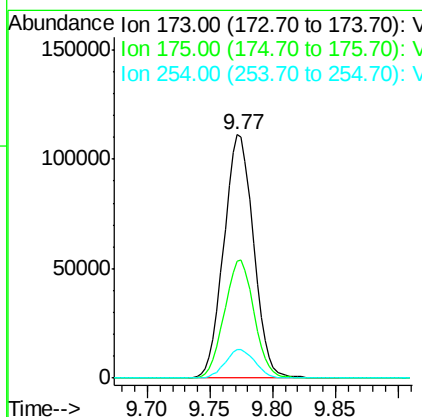
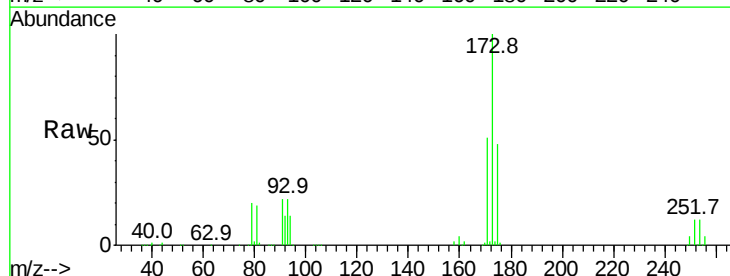
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

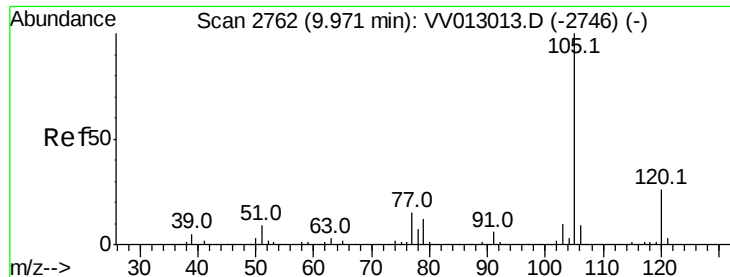
Tgt Ion: 83 Resp: 299614
 Ion Ratio Lower Upper
 83 100
 85 63.6 44.5 82.7
 131 10.2 8.2 12.2



#59
 Bromoform
 Concen: 24.939 ug/L
 RT: 9.77 min Scan# 2700
 Delta R.T. 0.00 min
 Lab File: VV013013.D
 Acq: 30 Sep 2019 11:58

Tgt Ion: 173 Resp: 183073
 Ion Ratio Lower Upper
 173 100
 175 48.6 38.9 58.3
 254 11.7 9.4 14.0





#60

Isopropylbenzene

Concen: 26.349 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV013013.D

Acq: 30 Sep 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

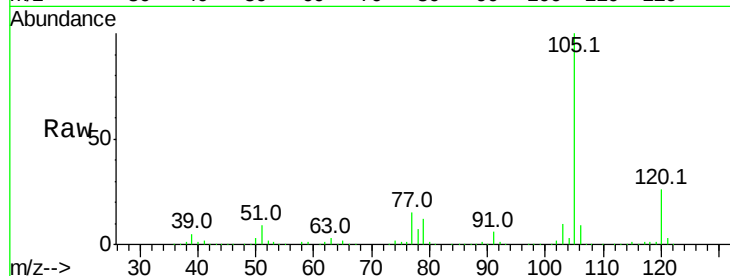
Tgt Ion:105 Resp: 1360962

Ion Ratio Lower Upper

105 100

120 26.4 21.1 31.7

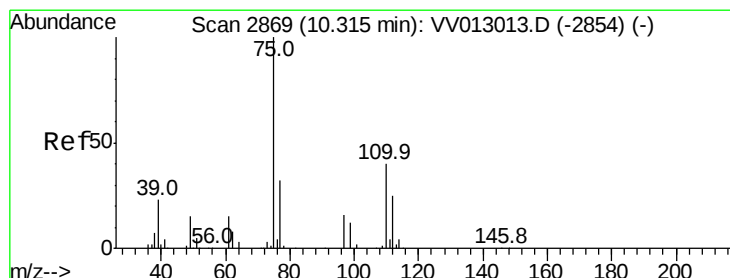
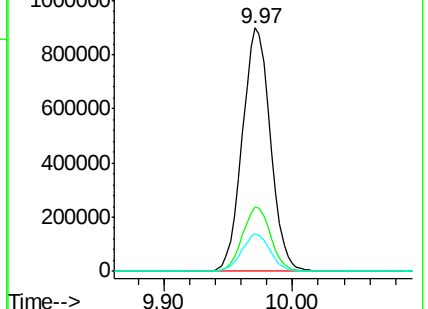
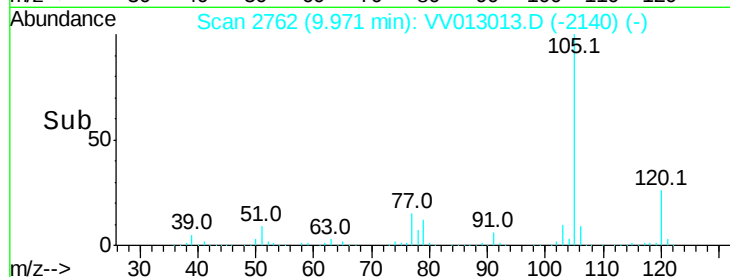
77 15.4 12.3 18.5



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



#61

1,2,3-Trichloropropane

Concen: 24.490 ug/L

RT: 10.31 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VV013013.D

Acq: 30 Sep 2019 11:58

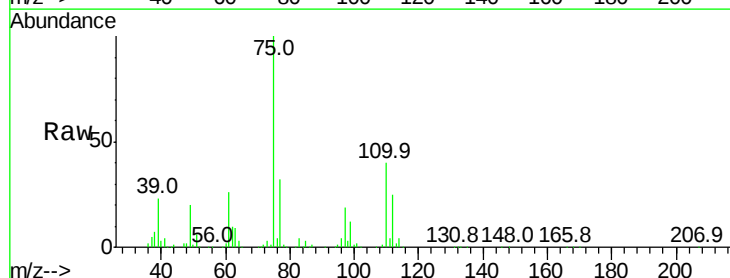
Tgt Ion: 75 Resp: 238918

Ion Ratio Lower Upper

75 100

77 31.8 25.4 38.2

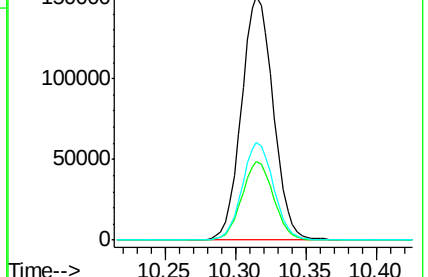
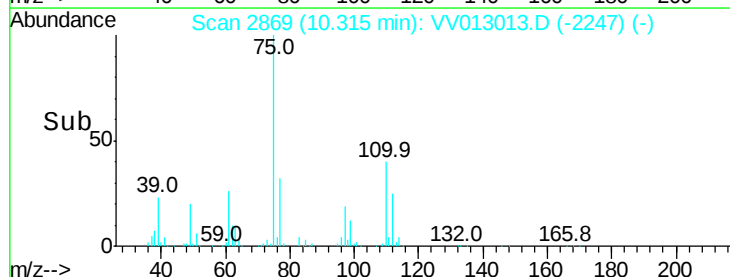
110 39.6 31.7 47.5

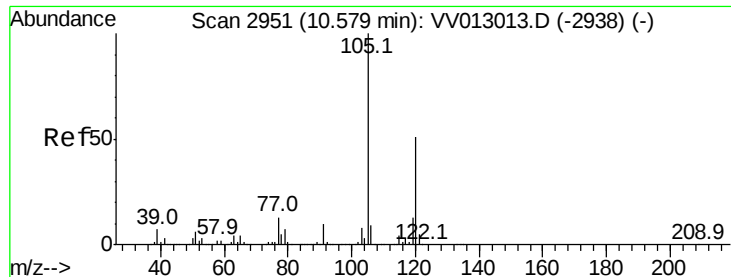


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Ion 110.00 (109.70 to 110.70): V

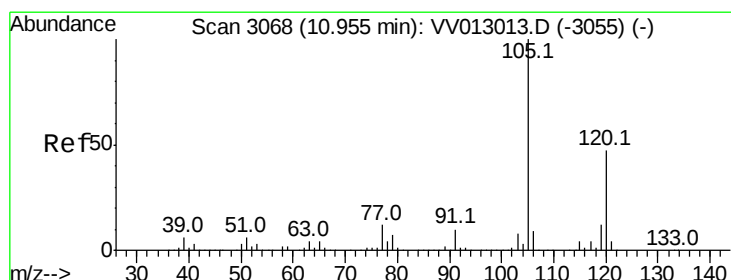
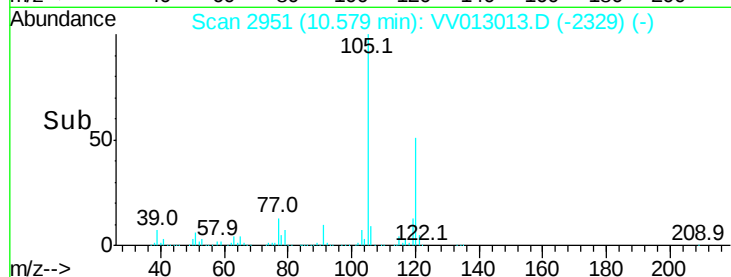
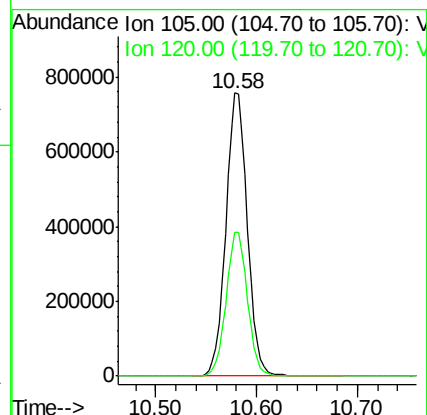
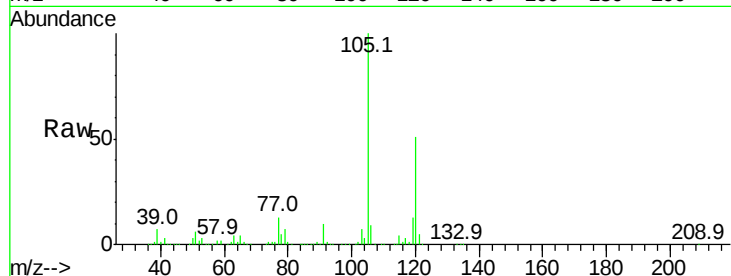




#62
 1,3,5-Trimethylbenzene
 Concen: 27.034 ug/L
 RT: 10.58 min Scan# 2951
 Delta R.T. 0.00 min
 Lab File: VV013013.D
 Acq: 30 Sep 2019 11:58

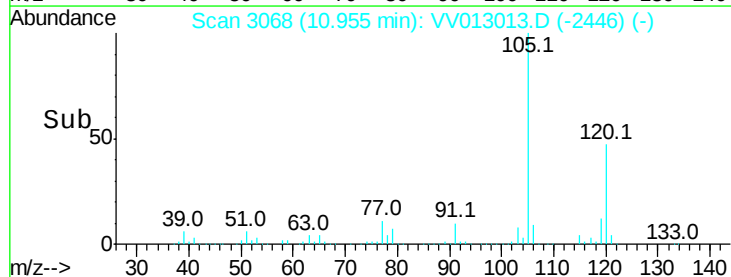
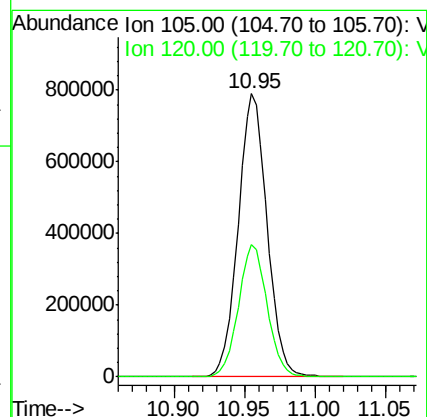
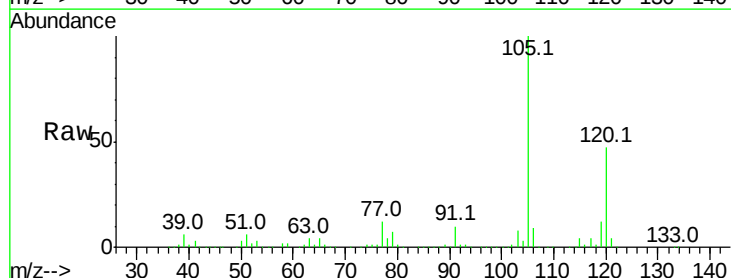
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

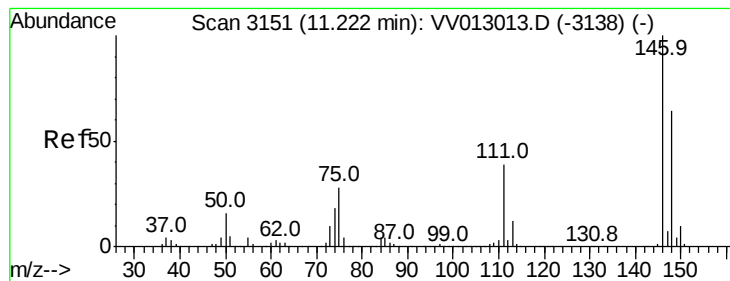
Tgt Ion:105 Resp: 1125077
 Ion Ratio Lower Upper
 105 100
 120 50.8 40.6 61.0



#63
 1,2,4-Trimethylbenzene
 Concen: 27.165 ug/L
 RT: 10.95 min Scan# 3068
 Delta R.T. 0.00 min
 Lab File: VV013013.D
 Acq: 30 Sep 2019 11:58

Tgt Ion:105 Resp: 1135289
 Ion Ratio Lower Upper
 105 100
 120 46.4 37.1 55.7





#64

1,3-Dichlorobenzene

Concen: 25.335 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. 0.00 min

Lab File: VV013013.D

Acq: 30 Sep 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

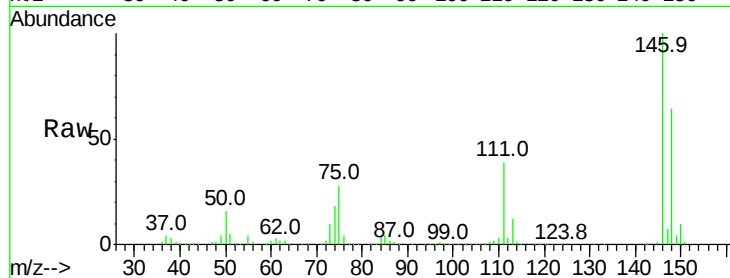
Tgt Ion:146 Resp: 686859

Ion Ratio Lower Upper

146 100

111 38.6 27.0 50.2

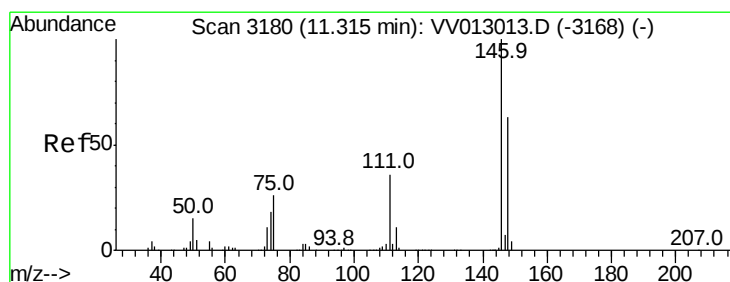
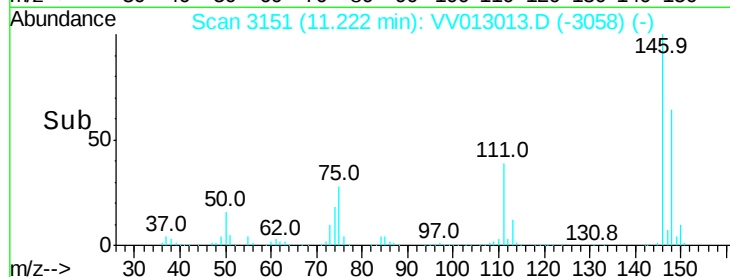
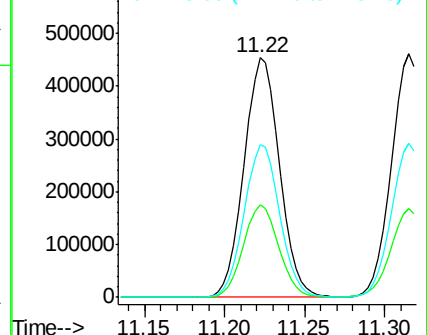
148 63.9 44.7 83.1



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

1,4-Dichlorobenzene

Concen: 24.691 ug/L

RT: 11.31 min Scan# 3180

Delta R.T. 0.00 min

Lab File: VV013013.D

Acq: 30 Sep 2019 11:58

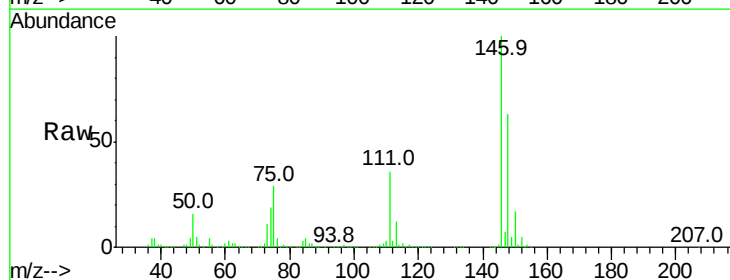
Tgt Ion:146 Resp: 702992

Ion Ratio Lower Upper

146 100

111 36.3 25.4 47.2

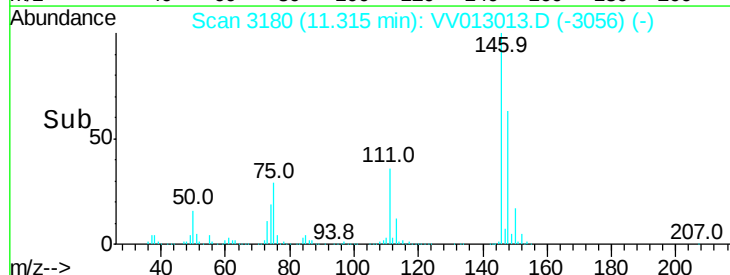
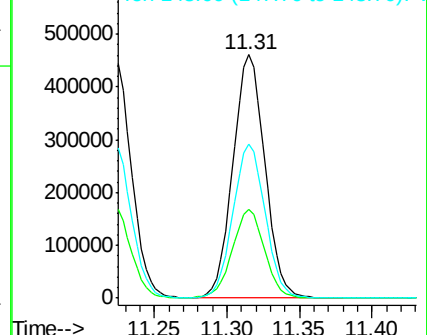
148 63.2 44.2 82.2

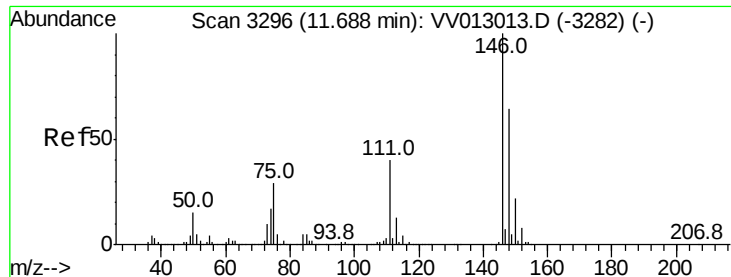


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

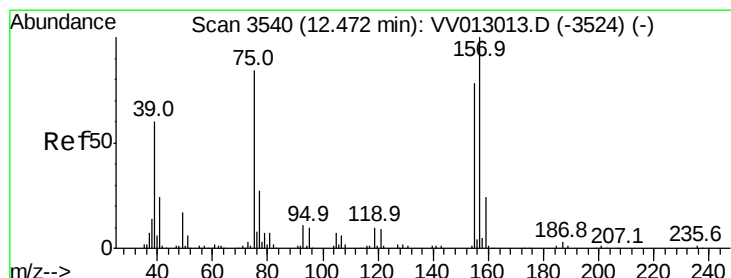
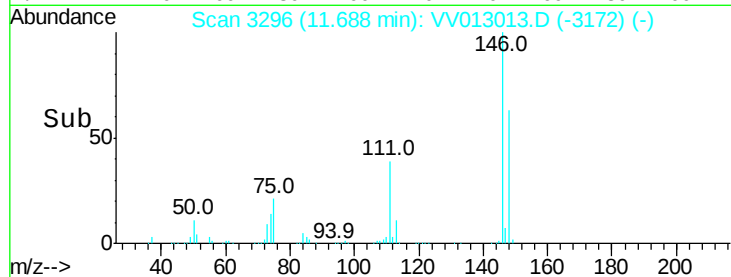
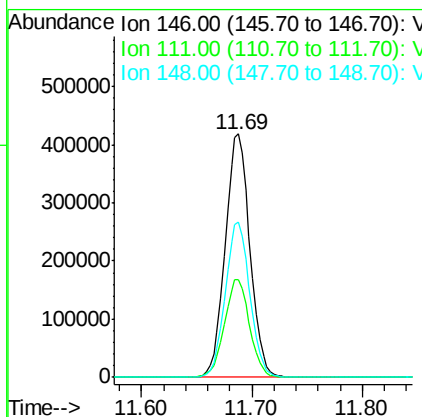
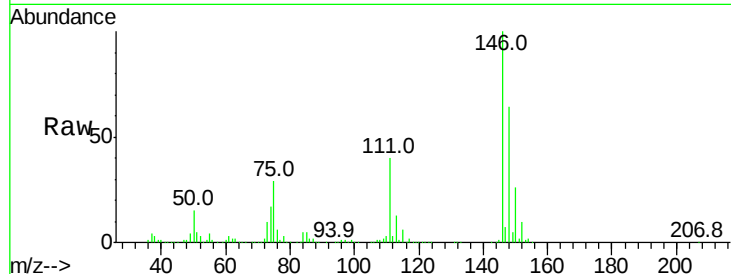




#67
 1,2-Dichlorobenzene
 Concen: 24.993 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. 0.00 min
 Lab File: VV013013.D
 Acq: 30 Sep 2019 11:58

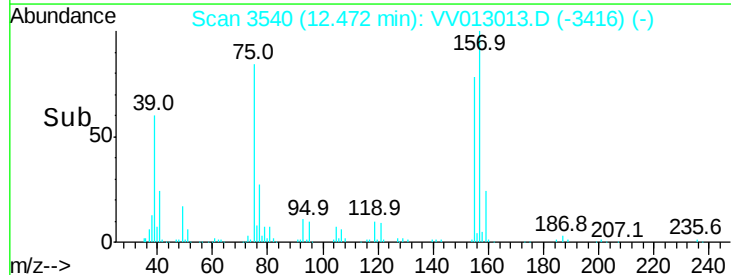
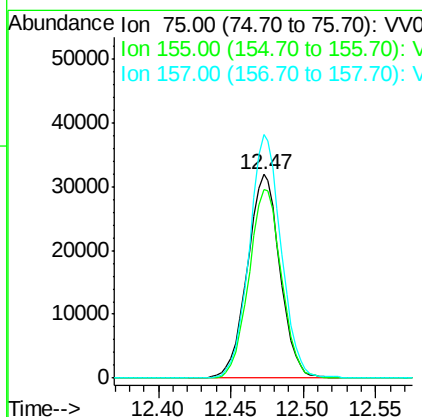
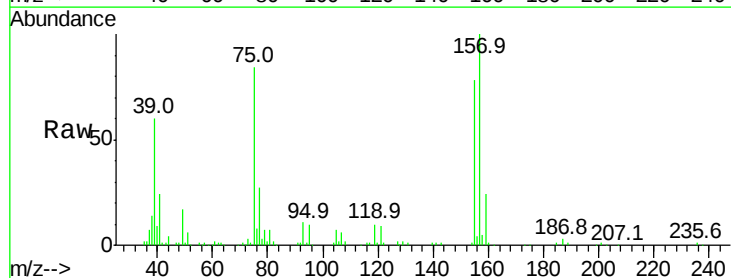
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02564

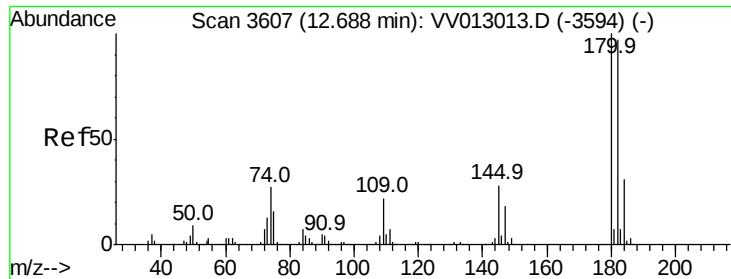
Tgt Ion:146 Resp: 646948
 Ion Ratio Lower Upper
 146 100
 111 40.0 32.0 48.0
 148 63.5 50.8 76.2



#68
 1,2-Dibromo-3-chloropropane
 Concen: 23.633 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. 0.00 min
 Lab File: VV013013.D
 Acq: 30 Sep 2019 11:58

Tgt Ion: 75 Resp: 50006
 Ion Ratio Lower Upper
 75 100
 155 93.0 74.4 111.6
 157 119.7 95.8 143.6

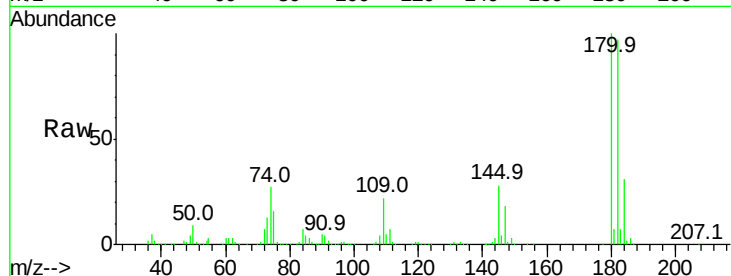




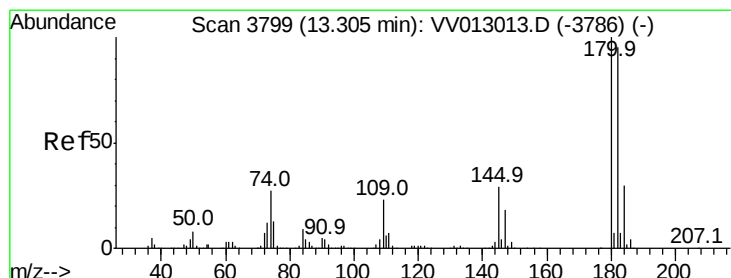
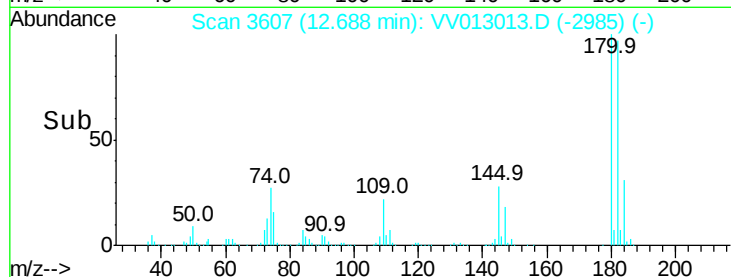
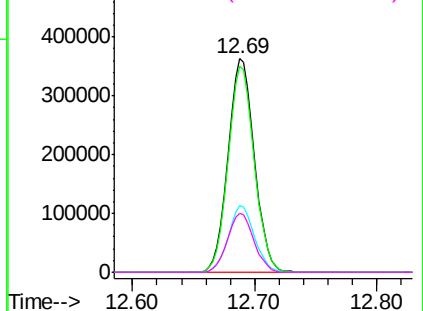
#69
 1,3,5-Trichlorobenzene
 Concen: 25.111 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV013013.D
 Acq: 30 Sep 2019 11:58

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

Tgt Ion:	180	Resp:	548106
Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.6	115.0
184	30.8	24.6	37.0
145	27.8	22.2	33.4

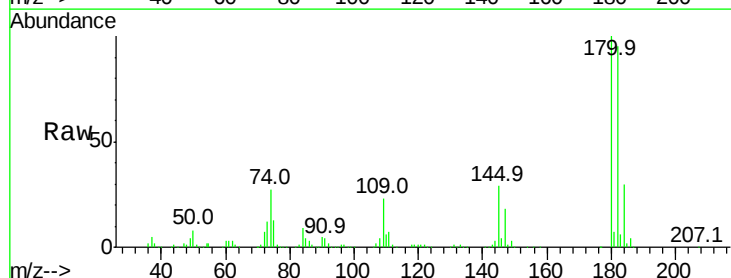


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

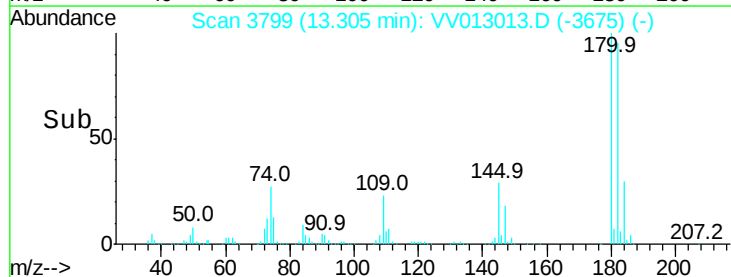
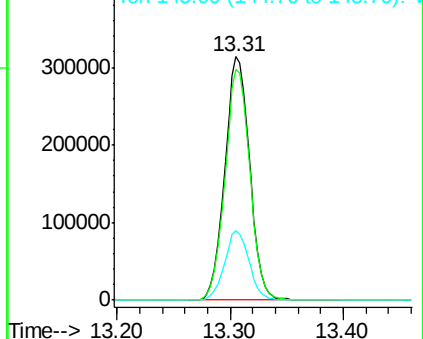


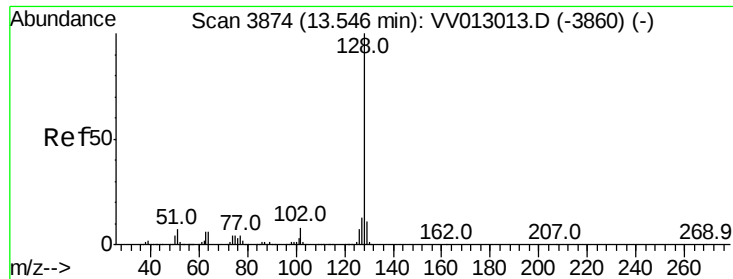
#70
 1,2,4-trichlorobenzene
 Concen: 25.383 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV013013.D
 Acq: 30 Sep 2019 11:58

Tgt Ion:	180	Resp:	479078
Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.0	114.0
145	28.1	22.5	33.7



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

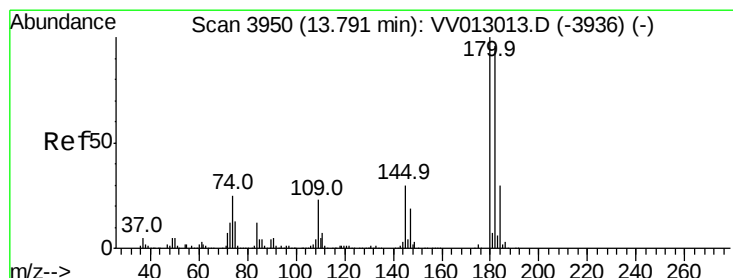
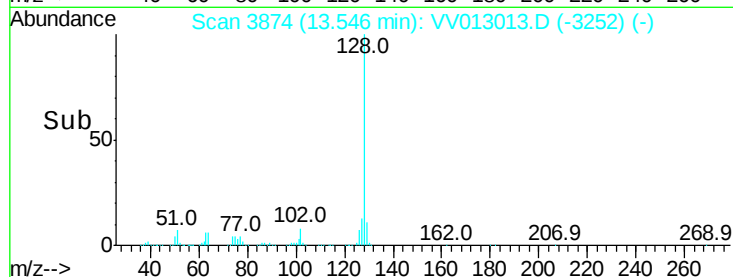
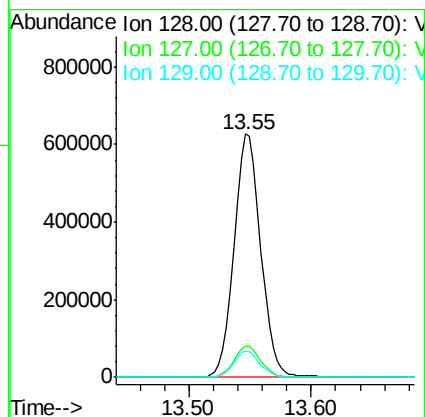
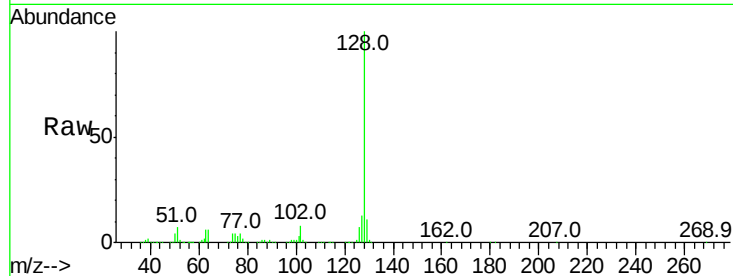




#71
Naphthalene
Concen: 25.992 ug/L
RT: 13.55 min Scan# 3874
Delta R.T. 0.00 min
Lab File: VV013013.D
Acq: 30 Sep 2019 11:58

Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

Tgt Ion:128 Resp: 955603
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.4
129 10.7 8.6 12.8



#72
1,2,3-Trichlorobenzene
Concen: 25.374 ug/L
RT: 13.79 min Scan# 3950
Delta R.T. 0.00 min
Lab File: VV013013.D
Acq: 30 Sep 2019 11:58

Tgt Ion:180 Resp: 461940
Ion Ratio Lower Upper
180 100
182 95.9 76.7 115.1
145 30.3 24.2 36.4

