

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091719\
 Data File : VV012868.D
 Acq On : 17 Sep 2019 17:08
 Operator : SY/MD
 Sample : VSTD02032
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02032

Quant Time: Sep 17 17:39:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR091719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Sep 17 17:28:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	436785	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	421980	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	219623	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	853968	19.76	ug/L	0.00
7) Chloroethane-d5	1.58	69	669227	19.63	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	1209770	18.98	ug/L	0.00
20) 2-Butanone-d5	3.97	46	2016514	222.75	ug/L	0.00
24) Chloroform-d	4.40	84	1403948	19.90	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	699124	20.28	ug/L	0.00
32) Benzene-d6	5.09	84	2925318	20.90	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	887686	20.84	ug/L	0.00
41) Toluene-d8	7.36	98	2720169	21.90	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.66	79	341804	22.33	ug/L	0.00
46) 2-Hexanone-d5	8.14	63	1628474	253.08	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	675298	20.49	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	955984	20.15	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	463592	16.833 ug/L	99
3) Chloromethane	1.26	50	557783	18.361 ug/L	100
5) Vinyl chloride	1.32	62	647112	18.358 ug/L	98
6) Bromomethane	1.53	94	321145	18.955 ug/L	100
8) Chloroethane	1.60	64	341902	18.465 ug/L	98
9) Trichlorofluoromethane	1.77	101	786255	18.334 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	462391	17.966 ug/L	98
12) 1,1-Dichloroethene	2.14	96	418414	17.881 ug/L	93
13) Acetone	2.24	43	829319	198.835 ug/L #	49
14) Carbon disulfide	2.31	76	892751	18.621 ug/L	98
15) Methyl Acetate	2.47	43	249403	19.914 ug/L	93
16) Methylene chloride	2.53	84	482741	16.777 ug/L	98
17) Methyl tert-butyl Ether	2.81	73	1271871	19.217 ug/L	100
18) trans-1,2-Dichloroethene	2.78	96	477309	18.351 ug/L	98
19) 1,1-Dichloroethane	3.23	63	1010279	18.823 ug/L	100
21) 2-Butanone	4.05	43	1745628	227.824 ug/L	94
22) cis-1,2-Dichloroethene	3.96	96	582877	19.943 ug/L	99
23) Bromochloromethane	4.30	128	246782	19.069 ug/L	98
25) Chloroform	4.42	83	1065547	17.621 ug/L	99
27) 1,2-Dichloroethane	5.18	62	624806	19.430 ug/L	99
29) 1,1,1-Trichloroethane	4.65	97	847913	19.338 ug/L	99
30) Cyclohexane	4.72	56	795316	21.747 ug/L	100
31) Carbon tetrachloride	4.87	117	719123	19.364 ug/L	99
33) Benzene	5.14	78	2171551	19.833 ug/L	100
34) Trichloroethene	5.96	95	555938	19.713 ug/L	99
35) Methylcyclohexane	6.17	83	843339	22.282 ug/L	98
37) 1,2-Dichloropropane	6.22	63	597226	20.017 ug/L	100
38) Bromodichloromethane	6.55	83	754954	19.442 ug/L	100
39) cis-1,3-Dichloropropene	7.07	75	868335	21.970 ug/L	98
40) 4-Methyl-2-pentanone	7.28	43	4246822	221.038 ug/L	98

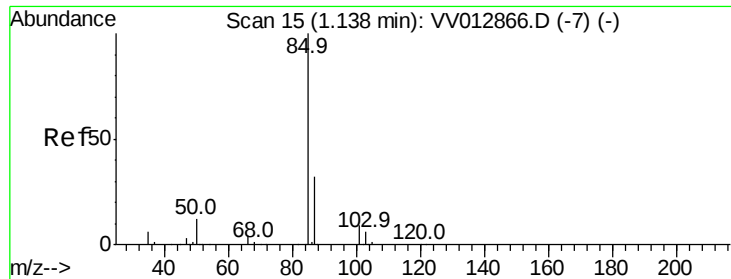
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091719\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	2369427	20.786	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	695593	22.035	ug/L	98
45) 1,1,2-Trichloroethane	7.88	97	435865	19.492	ug/L	98
47) Tetrachloroethene	8.02	164	443767	19.581	ug/L	99
48) 2-Hexanone	8.19	43	3030172	218.276	ug/L	99
49) Dibromochloromethane	8.29	129	521732	20.492	ug/L	99
50) 1,2-Dibromoethane	8.40	107	373583	20.075	ug/L	98
51) Chlorobenzene	8.92	112	1561011	19.955	ug/L	99
52) Ethylbenzene	9.05	91	2693850	22.034	ug/L	100
53) m,p-xylene	9.18	106	1016043	22.533	ug/L	98
54) o-xylene	9.59	106	1023500	23.087	ug/L	100
55) Styrene	9.60	104	1791515	23.556	ug/L	99
56) Isopropylbenzene	9.97	105	2778397	23.357	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.28	83	548591	19.590	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	377723	19.406	ug/L	99
61) Bromoform	9.77	173	295688	19.635	ug/L	99
62) 1,3-Dichlorobenzene	11.22	146	1306196	19.902	ug/L	99
63) 1,4-Dichlorobenzene	11.31	146	1295366	19.232	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	1244388	19.222	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	81069	18.220	ug/L	98
67) 1,3,5-Trichlorobenzene	12.69	180	1034757	20.163	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	884668	21.469	ug/L	99
69) Naphthalene	13.55	128	1546581	24.839	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	850516	20.921	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 16.833 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

Instrument :

MSVOA_V

ClientSampleId :

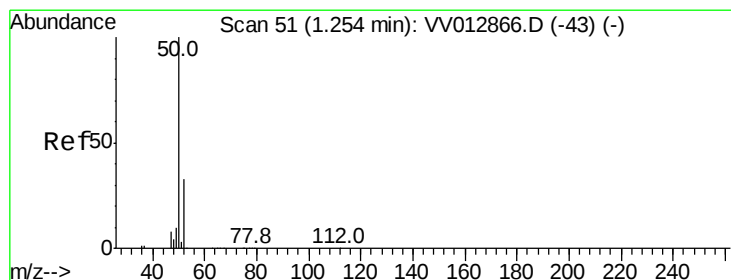
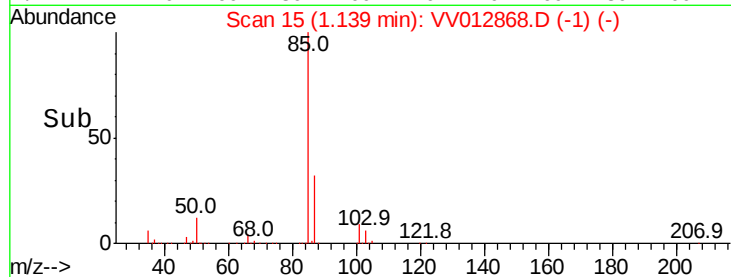
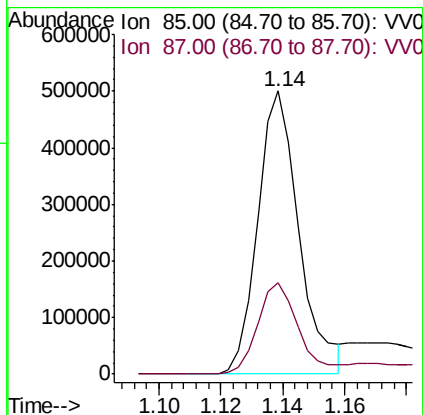
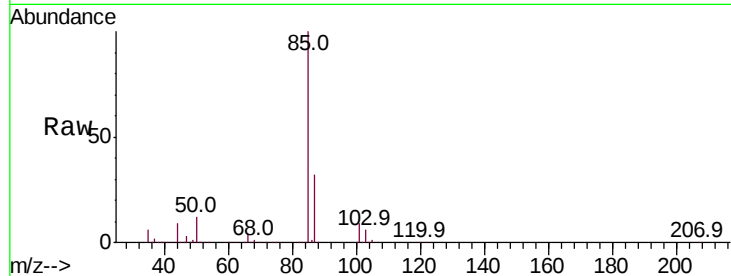
VSTD02032

Tot Ion: 85 Resp: 463592

Ion Ratio Lower Upper

85 100

87 32.1 25.4 38.2



#3

Chloromethane

Concen: 18.361 ug/L

RT: 1.26 min Scan# 53

Delta R.T. 0.01 min

Lab File: VV012868.D

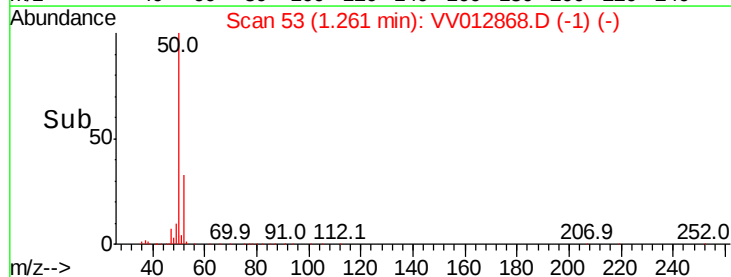
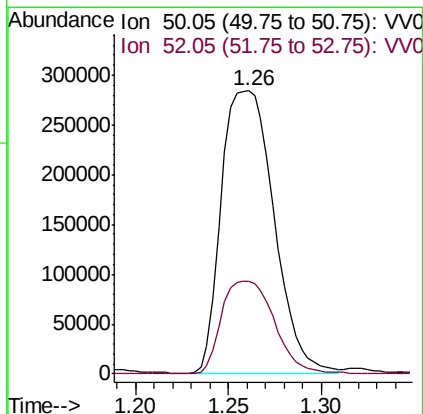
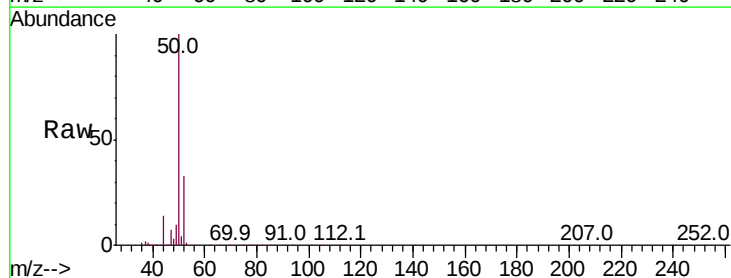
Acq: 17 Sep 2019 17:08

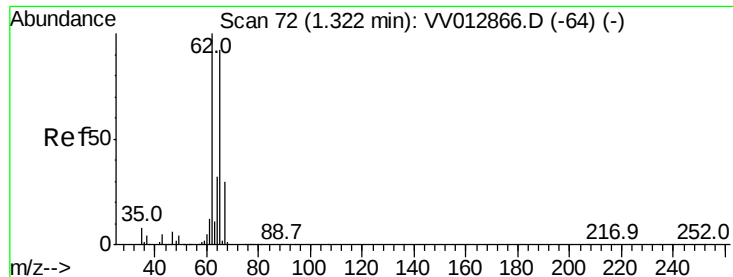
Tgt Ion: 50 Resp: 557783

Ion Ratio Lower Upper

50 100

52 32.5 22.8 42.4





#5

Vinyl chloride

Concen: 18.358 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

Instrument :

MSVOA_V

ClientSampleId :

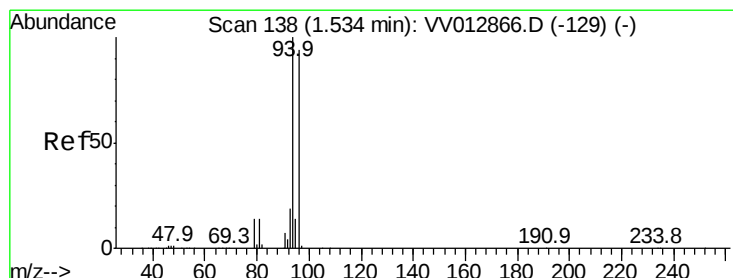
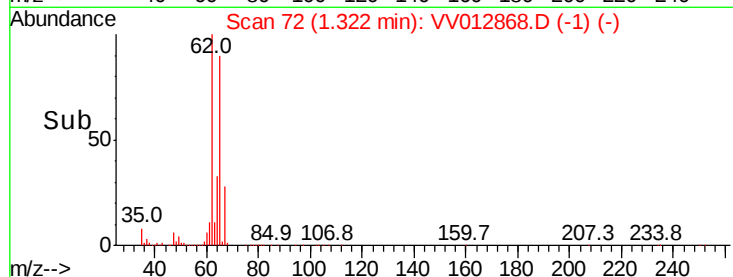
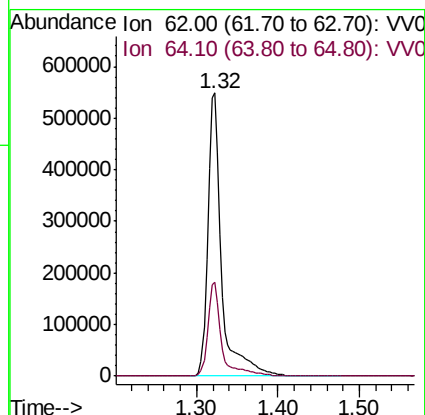
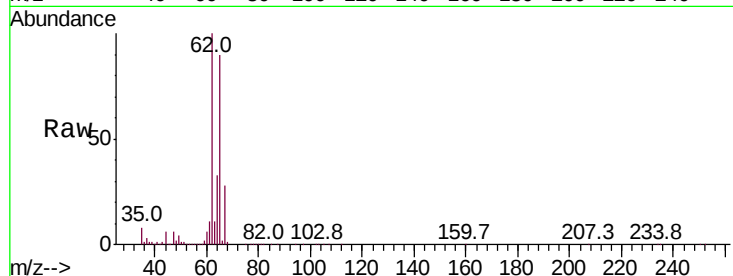
VSTD02032

Tot Ion: 62 Resp: 647112

Ion Ratio Lower Upper

62 100

64 33.0 22.5 41.7



#6

Bromomethane

Concen: 18.955 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV012868.D

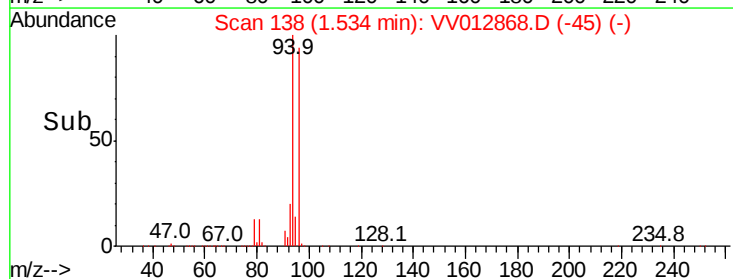
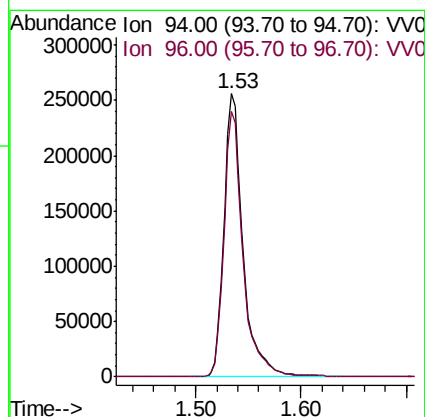
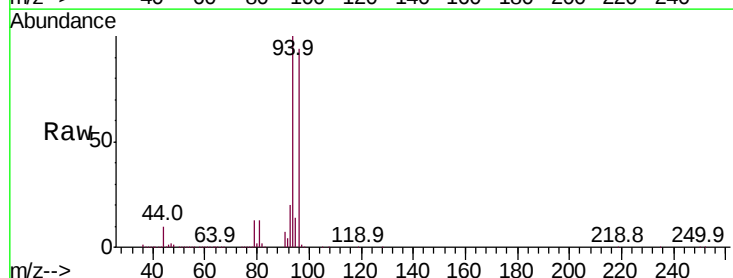
Acq: 17 Sep 2019 17:08

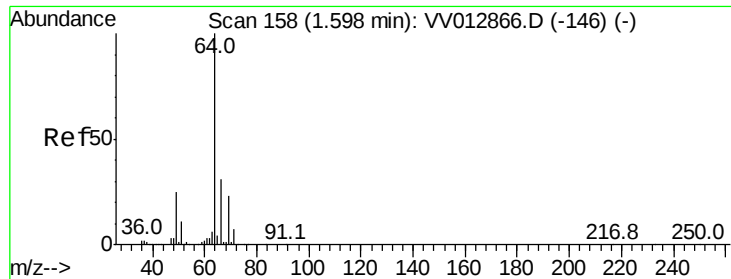
Tgt Ion: 94 Resp: 321145

Ion Ratio Lower Upper

94 100

96 93.8 65.6 121.8





#8

Chloroethane

Concen: 18.465 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

Instrument :

MSVOA_V

ClientSampleId :

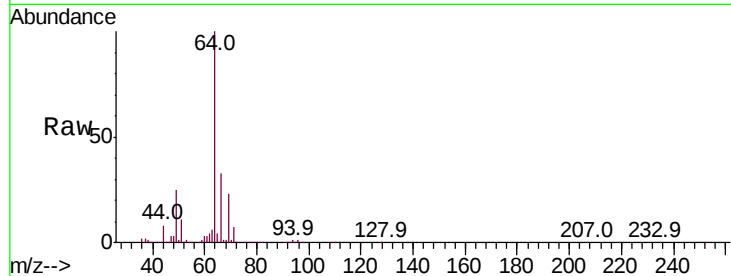
VSTD02032

Tot Ion: 64 Resp: 341902

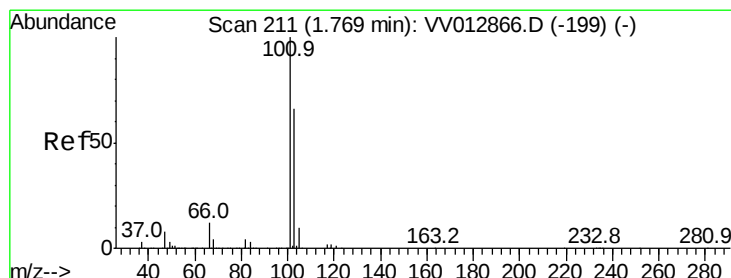
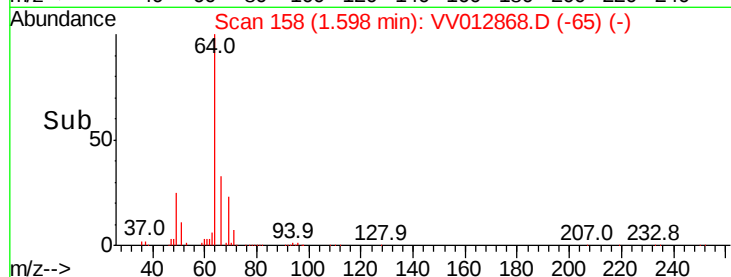
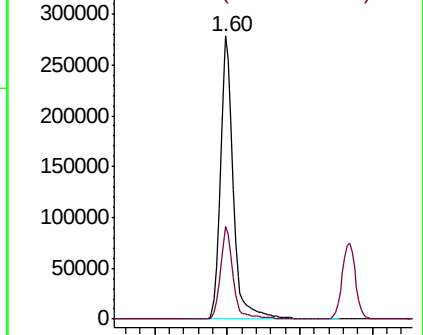
Ion Ratio Lower Upper

64 100

66 32.8 22.0 40.8



Abundance Ion 64.10 (63.80 to 64.80): VV012866.D (-146) (-)



#9

Trichlorofluoromethane

Concen: 18.334 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV012868.D

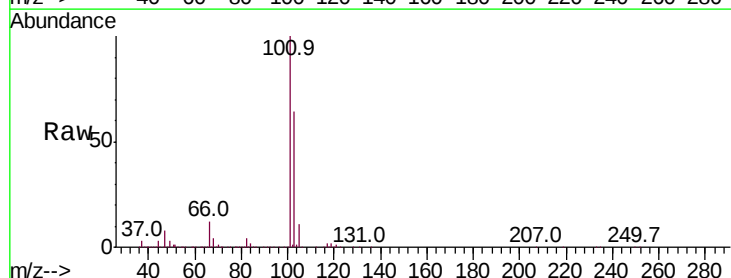
Acq: 17 Sep 2019 17:08

Tgt Ion:101 Resp: 786255

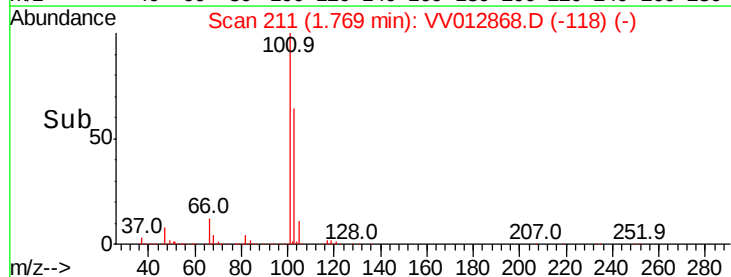
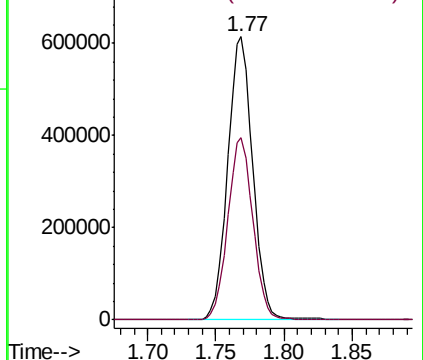
Ion Ratio Lower Upper

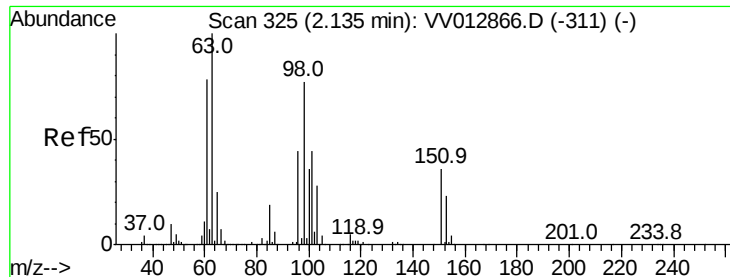
101 100

103 64.3 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): VV012866.D (-199) (-)





#10

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

Concen: 17.966 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02032

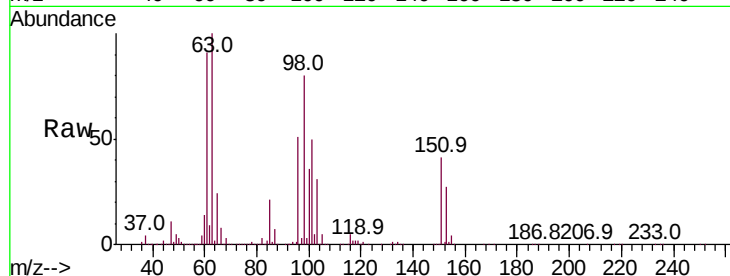
Tot Ion:101 Resp: 462391

Ion Ratio Lower Upper

101 100

85 41.4 33.5 50.3

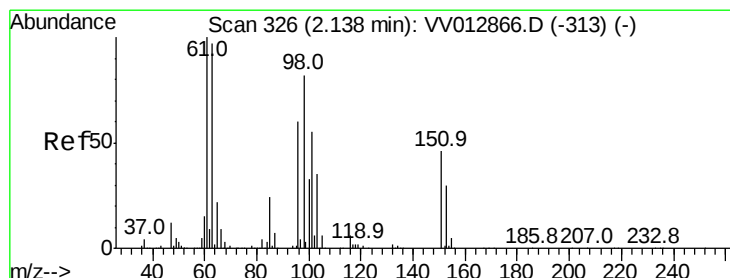
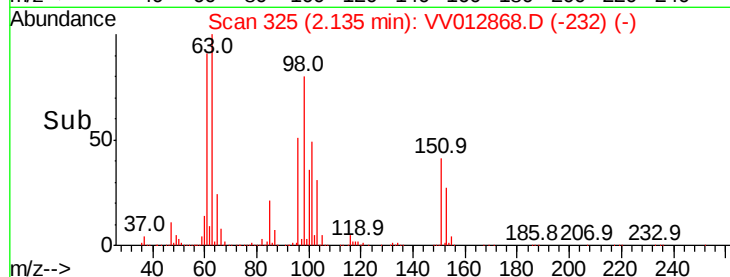
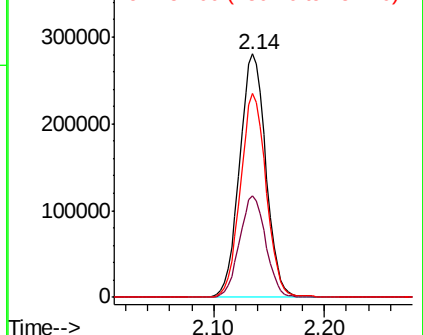
151 82.3 64.0 96.0



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: 17.881 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

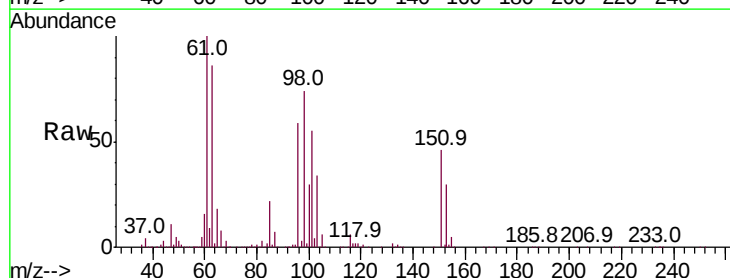
Tgt Ion: 96 Resp: 418414

Ion Ratio Lower Upper

96 100

61 169.8 116.1 215.5

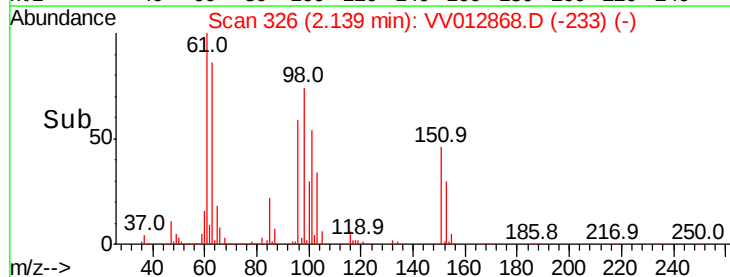
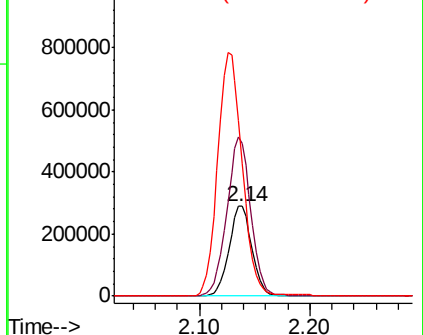
63 146.5 113.3 210.3

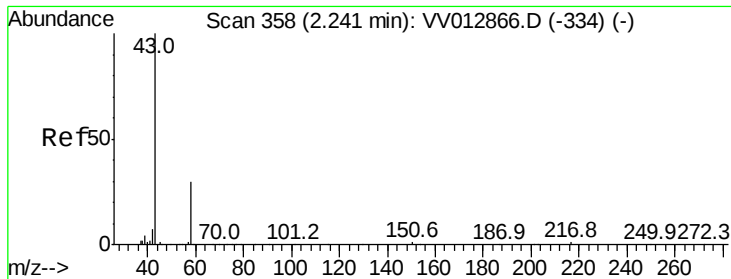


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 198.835 ug/L

RT: 2.24 min Scan# 357

Delta R.T. -0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

Instrument :

MSVOA_V

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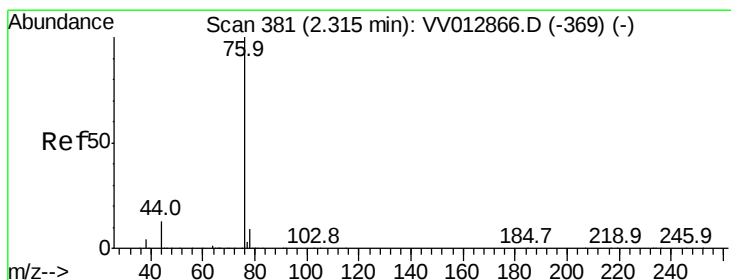
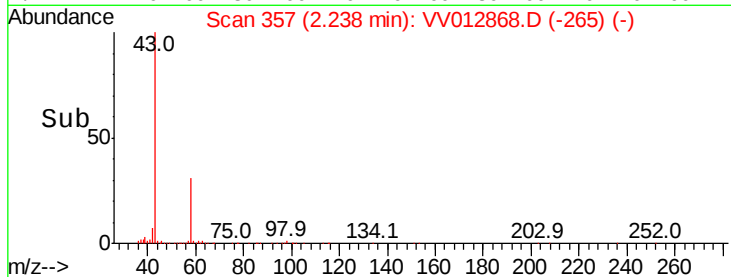
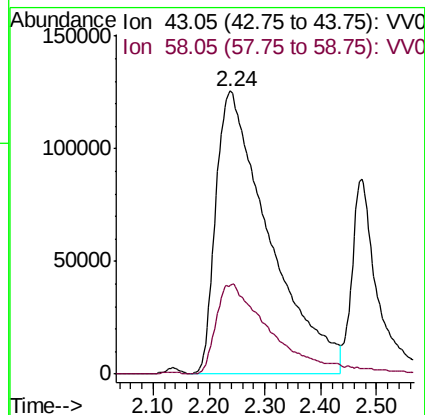
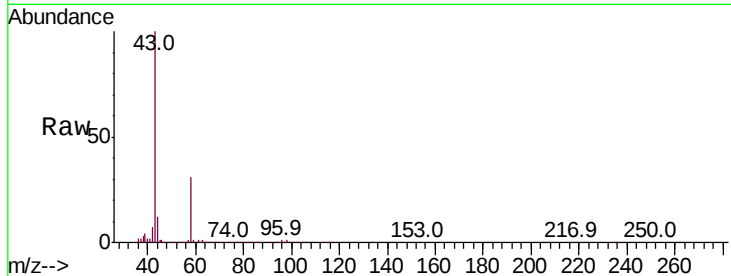
VSTD02032

Tot Ion: 43 Resp: 829319

Ion Ratio Lower Upper

43 100

58 32.0 0.0 24.4#



#14

Carbon disulfide

Concen: 18.621 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV012868.D

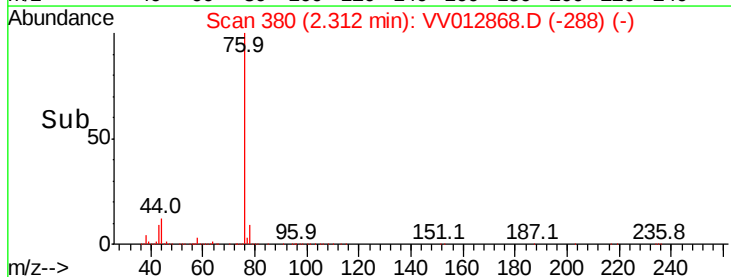
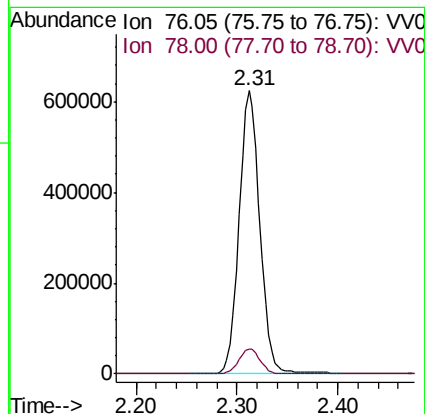
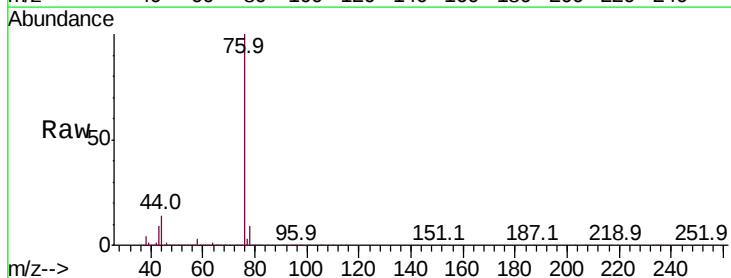
Acq: 17 Sep 2019 17:08

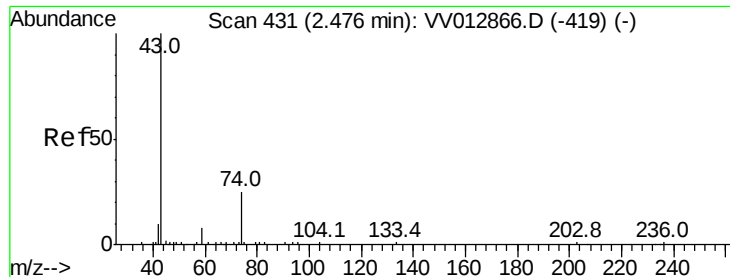
Tgt Ion: 76 Resp: 892751

Ion Ratio Lower Upper

76 100

78 8.9 7.6 11.4





#15

Methyl Acetate

Concen: 19.914 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

Instrument :

MSVOA_V

ClientSampleId :

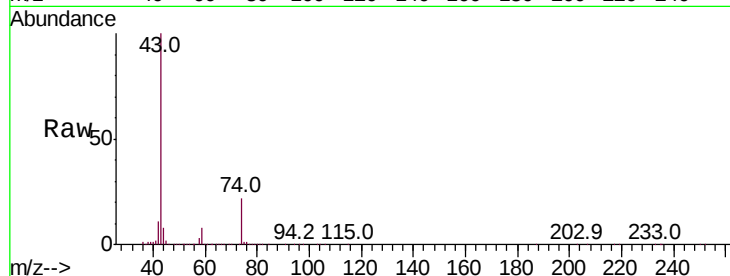
VSTD02032

Tot Ion: 43 Resp: 249403

Ion Ratio Lower Upper

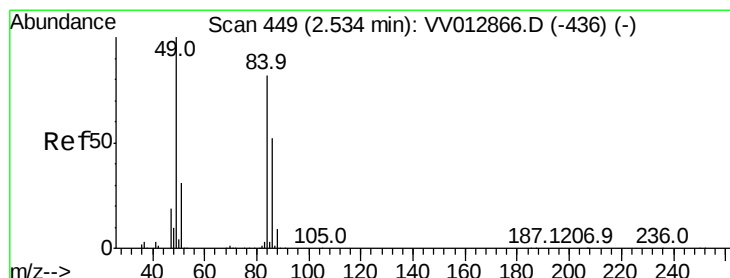
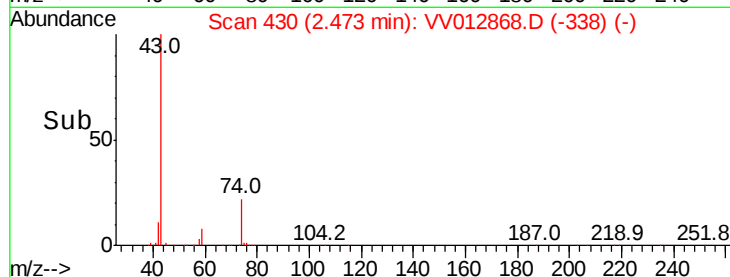
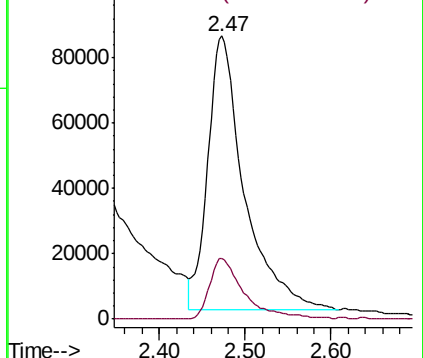
43 100

74 20.7 14.1 21.1



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#16

Methylene chloride

Concen: 16.777 ug/L

RT: 2.53 min Scan# 448

Delta R.T. -0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

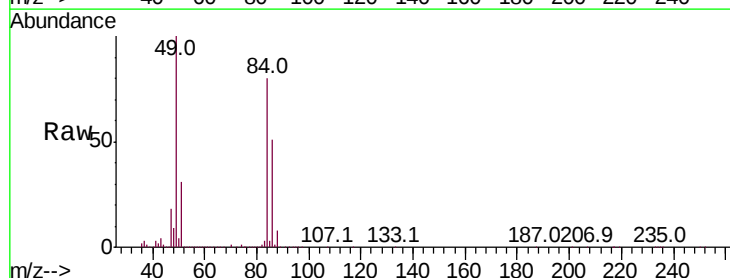
Tgt Ion: 84 Resp: 482741

Ion Ratio Lower Upper

84 100

86 63.8 44.8 83.2

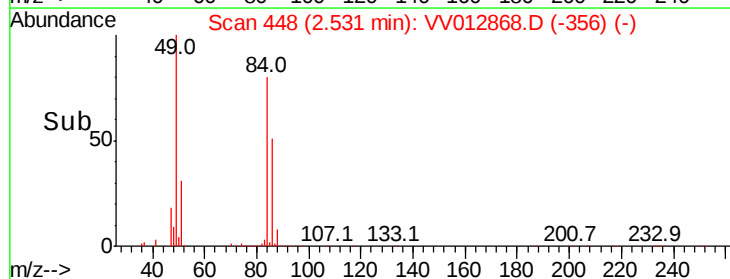
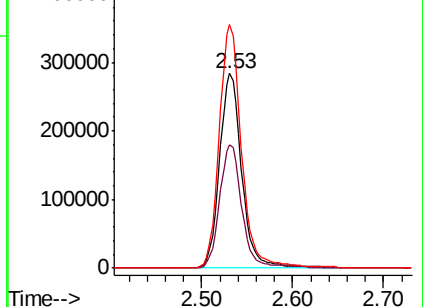
49 125.2 85.9 159.5

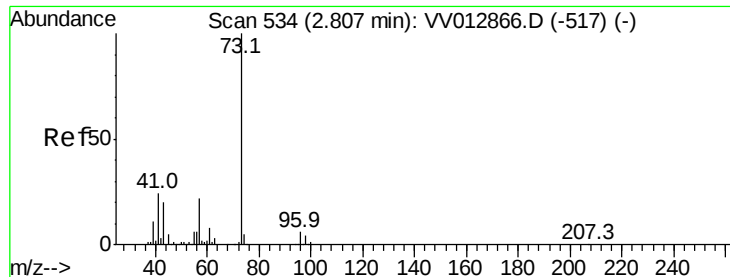


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0



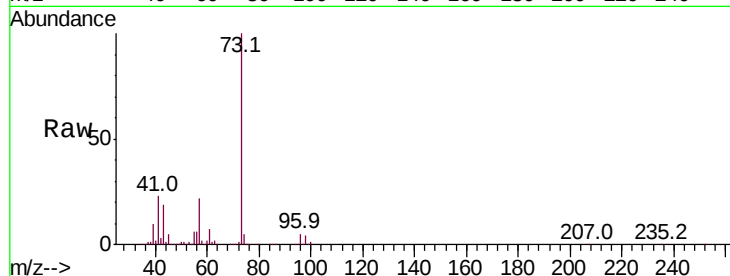


#17
Methvl tert-butvl Ether
Concen: 19.217 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV012868.D
Acq: 17 Sep 2019 17:08

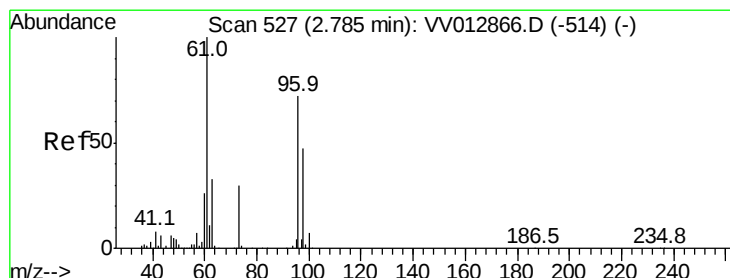
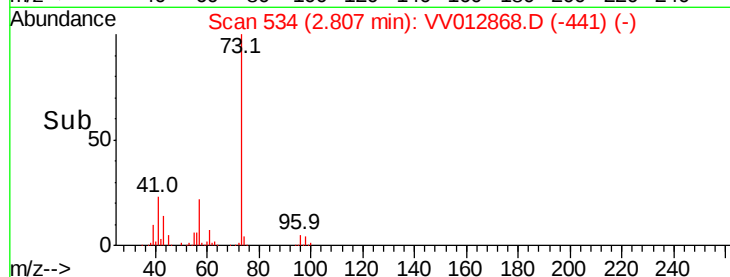
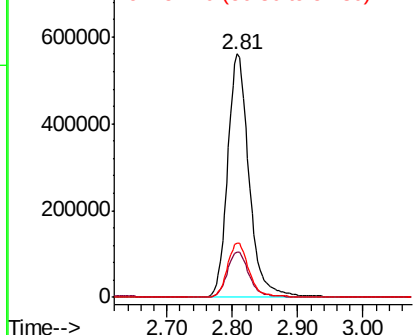
Instrument :
MSVOA_V
ClientSampleId :
VSTD02032

Tot Ion: 73 Resp: 1271871

Ion	Ratio	Lower	Upper
73	100		
43	18.9	15.0	22.4
57	22.6	17.9	26.9



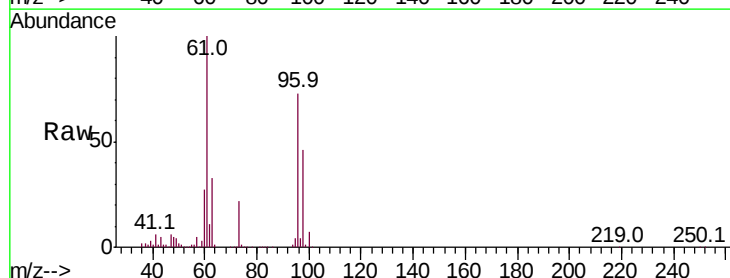
Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0



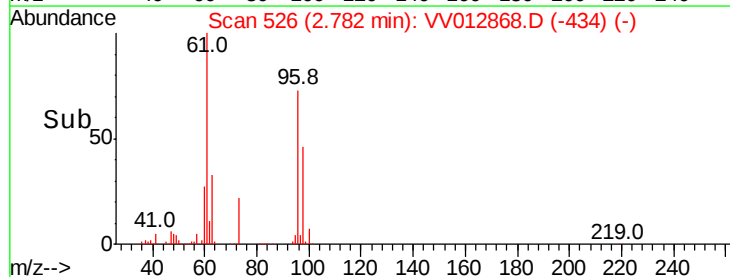
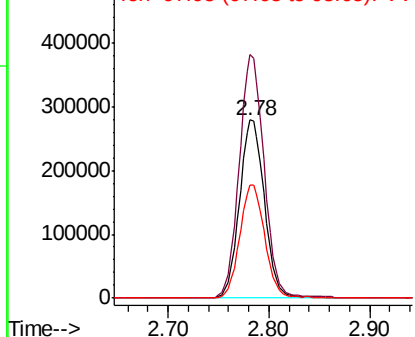
#18
trans-1,2-Dichloroethene
Concen: 18.351 ug/L
RT: 2.78 min Scan# 526
Delta R.T. -0.00 min
Lab File: VV012868.D
Acq: 17 Sep 2019 17:08

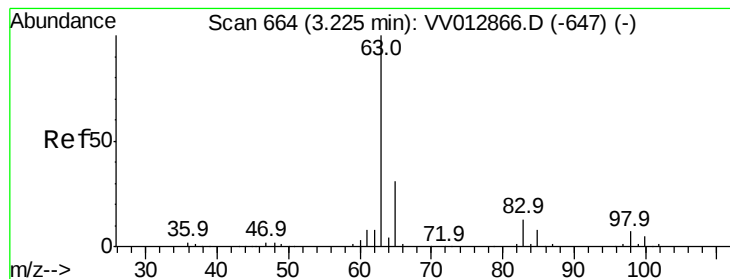
Tgt Ion: 96 Resp: 477309

Ion	Ratio	Lower	Upper
96	100		
61	136.6	96.8	179.8
98	63.2	45.2	84.0



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





#19

1,1-Dichloroethane

Concen: 18.823 ug/L

RT: 3.23 min Scan# 664

Delta R.T. 0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02032

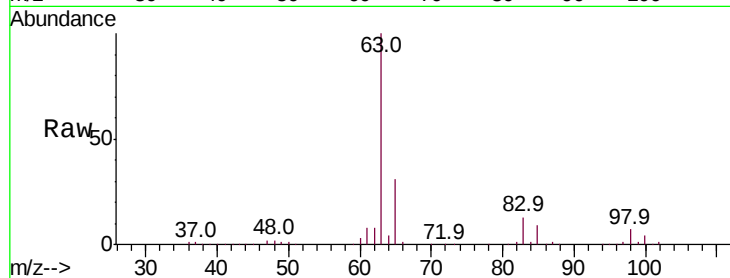
Tot Ion: 63 Resp: 1010279

Ion Ratio Lower Upper

63 100

65 31.2 22.0 41.0

83 13.1 9.2 17.0



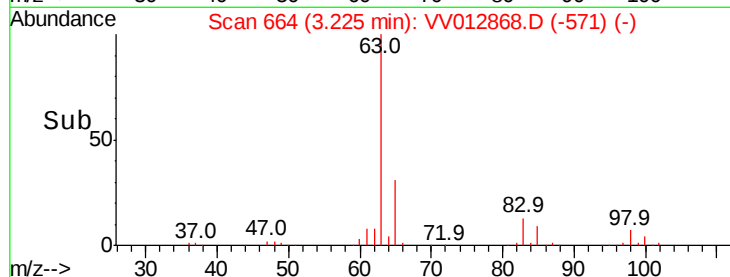
Abundance Ion 63.10 (62.80 to 63.80): VV012866.D (-647) (-)

Ion 65.10 (64.80 to 65.80): VV012866.D (-647) (-)

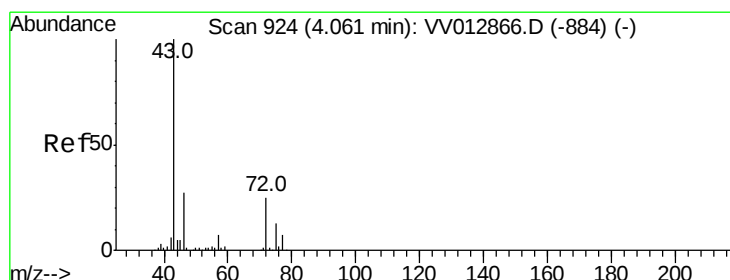
Ion 83.05 (82.75 to 83.75): VV012866.D (-647) (-)

3.23

Time-->



Time-->



#21

2-Butanone

Concen: 227.824 ug/L

RT: 4.05 min Scan# 922

Delta R.T. -0.01 min

Lab File: VV012868.D

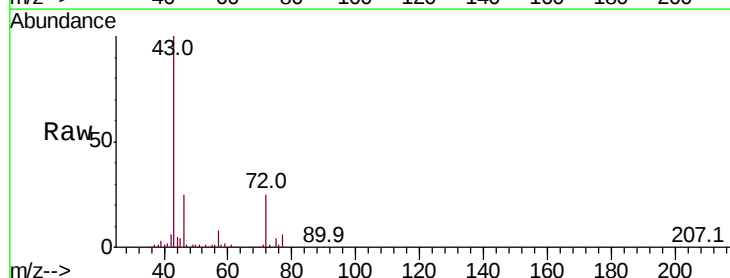
Acq: 17 Sep 2019 17:08

Tgt Ion: 43 Resp: 1745628

Ion Ratio Lower Upper

43 100

72 23.4 10.4 31.2

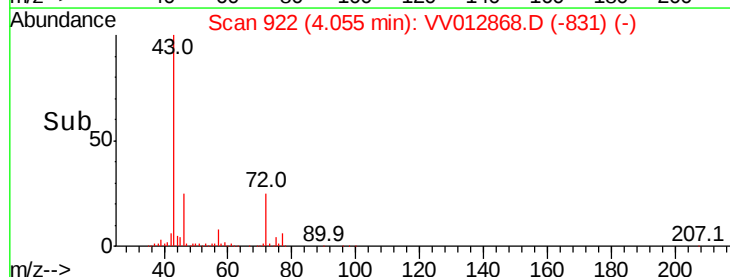


Abundance Ion 43.05 (42.75 to 43.75): VV012866.D (-884) (-)

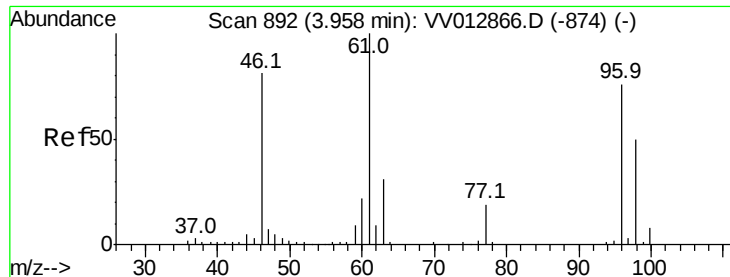
Ion 72.10 (71.80 to 72.80): VV012866.D (-884) (-)

4.05

Time-->



Time-->

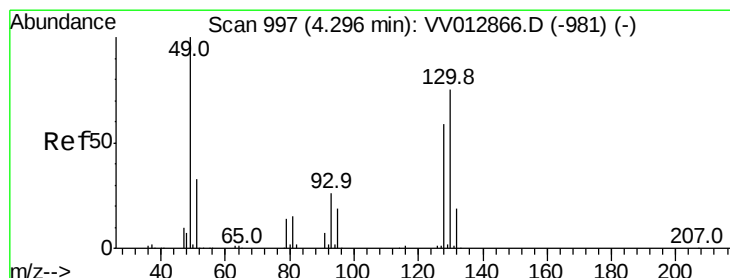
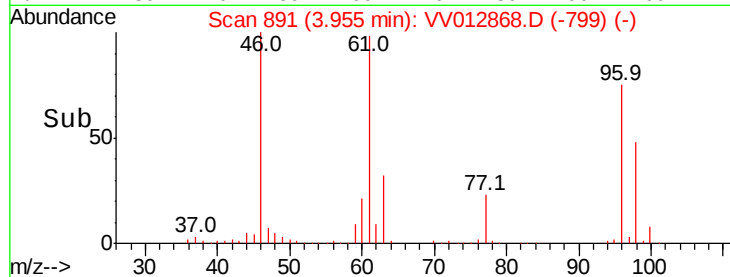
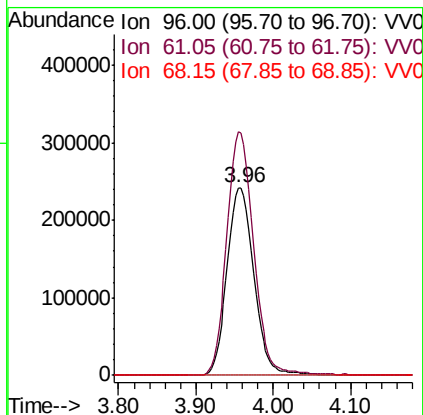
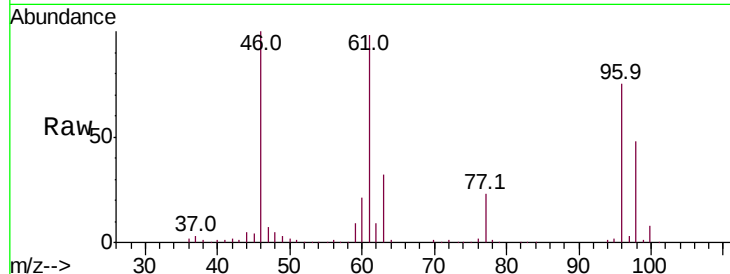


#22

cis-1,2-Dichloroethene
 Concen: 19.943 ug/L
 RT: 3.96 min Scan# 891
 Delta R.T. -0.00 min
 Lab File: VV012868.D
 Acq: 17 Sep 2019 17:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02032

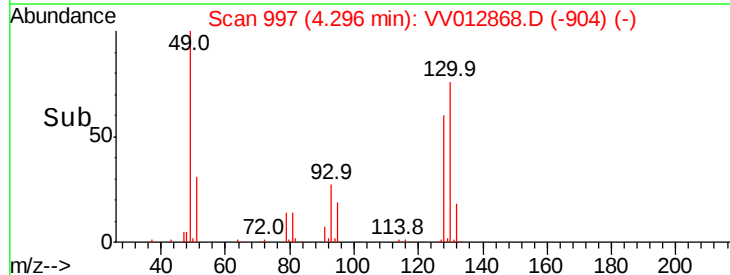
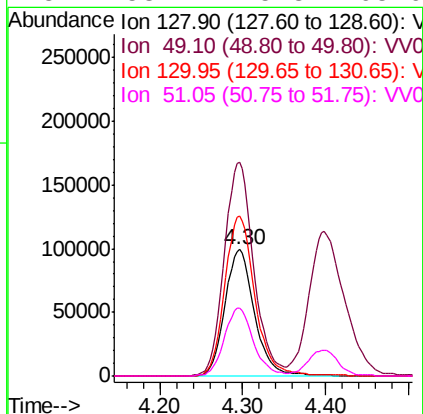
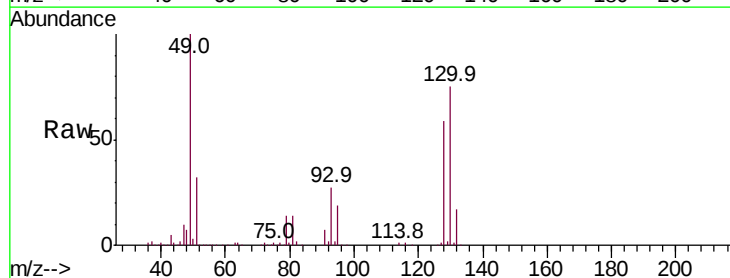
Tot Ion: 96 Resp: 582877
 Ion Ratio Lower Upper
 96 100
 61 129.8 91.8 170.6
 68 0.0 0.0 0.0

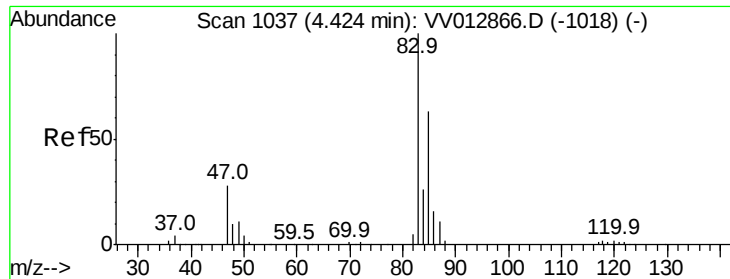


#23

Bromochloromethane
 Concen: 19.069 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. 0.00 min
 Lab File: VV012868.D
 Acq: 17 Sep 2019 17:08

Tgt Ion: 128 Resp: 246782
 Ion Ratio Lower Upper
 128 100
 49 169.2 119.6 222.0
 130 126.5 89.8 166.8
 51 53.7 45.8 68.6





#25

Chloroform

Concen: 17.621 ug/L

RT: 4.42 min Scan# 1036

Delta R.T. -0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

Instrument :

MSVOA_V

ClientSampleId :

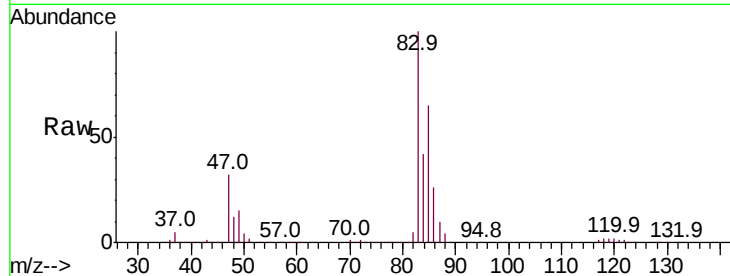
VSTD02032

Tot Ion: 83 Resp: 1065547

Ion Ratio Lower Upper

83 100

85 64.6 44.4 82.5



Abundance Ion 83.05 (82.75 to 83.75): VV012868.D (-1018) (-)

Ion 85.00 (84.70 to 85.70): VV012868.D (-1018) (-)

4.42

400000

300000

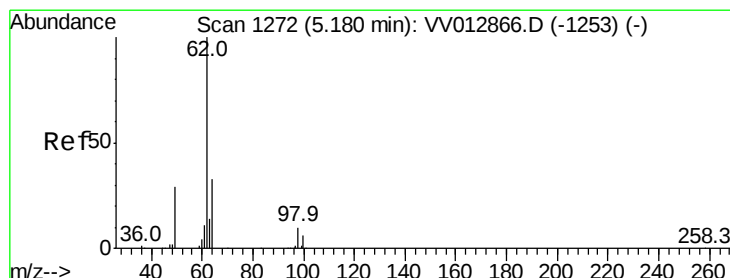
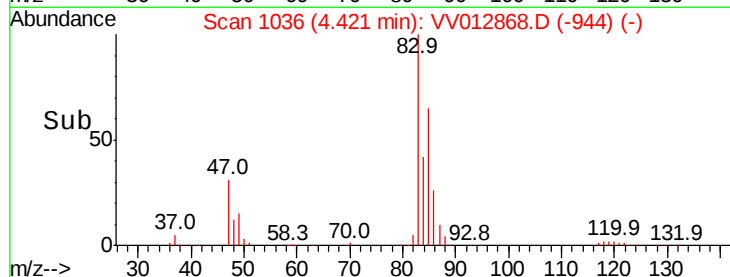
200000

100000

0

4.30 4.40 4.50 4.60

Time-->



#27

1,2-Dichloroethane

Concen: 19.430 ug/L

RT: 5.18 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VV012868.D

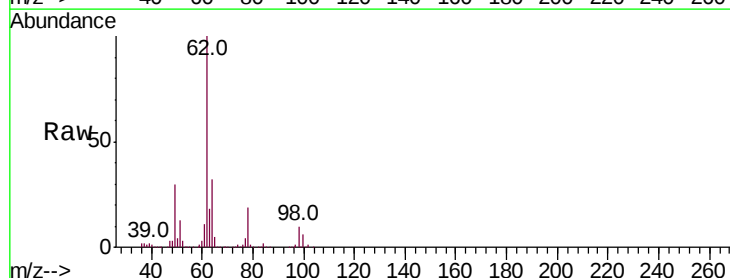
Acq: 17 Sep 2019 17:08

Tgt Ion: 62 Resp: 624806

Ion Ratio Lower Upper

62 100

98 10.1 7.8 11.8



Abundance Ion 62.00 (61.70 to 62.70): VV012868.D (-1253) (-)

Ion 98.05 (97.75 to 98.75): VV012868.D (-1253) (-)

5.18

300000

250000

200000

150000

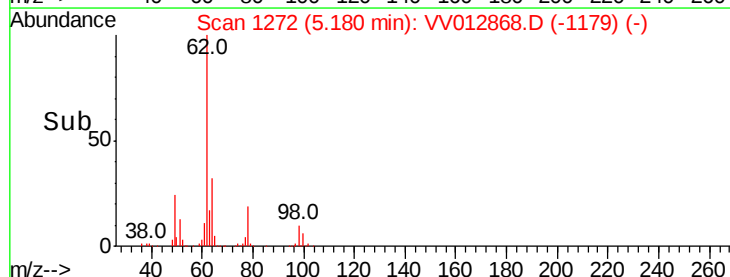
100000

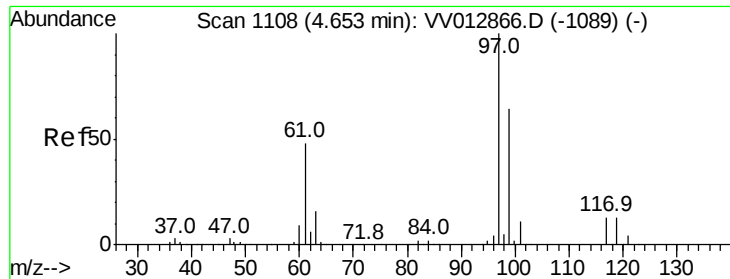
50000

0

5.10 5.20 5.30

Time-->



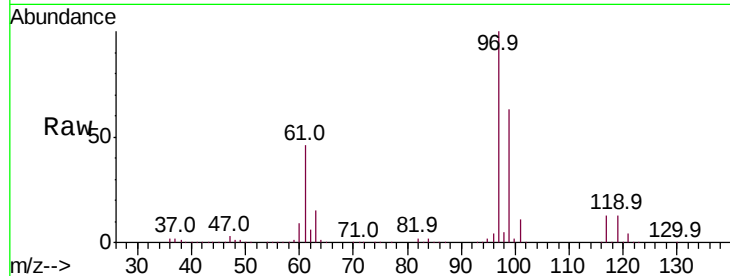


#29
 1,1,1-Trichloroethane
 Concen: 19.338 ug/L
 RT: 4.65 min Scan# 1108
 Delta R.T. 0.00 min
 Lab File: VV012868.D
 Acq: 17 Sep 2019 17:08

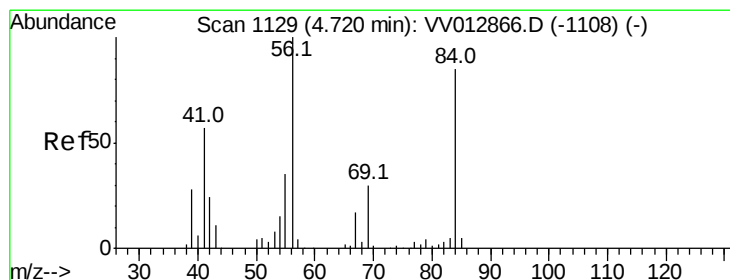
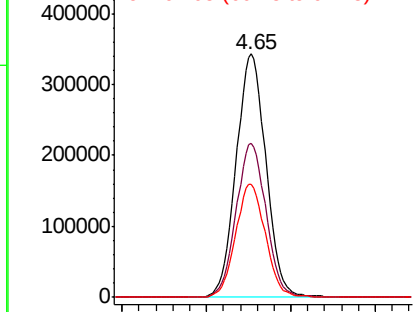
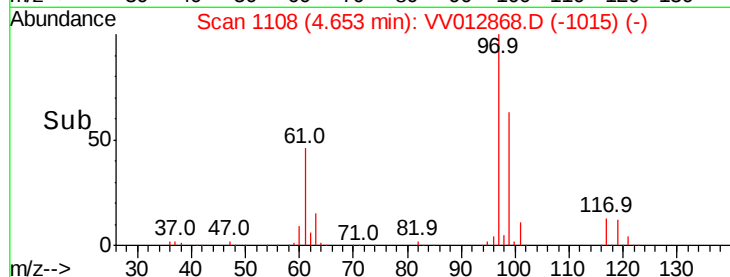
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02032

Tot Ion: 97 Resp: 847913

Ion	Ratio	Lower	Upper
97	100		
99	63.4	50.9	76.3
61	46.5	38.2	57.2



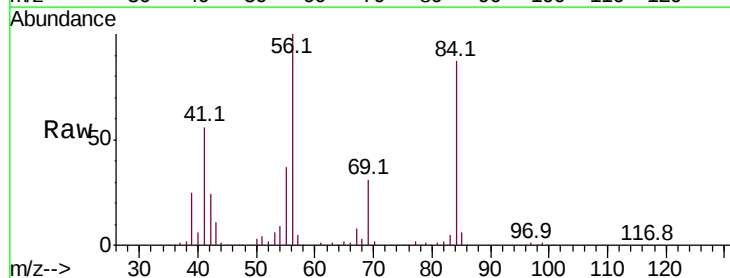
Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 61.05 (60.75 to 61.75): VV0



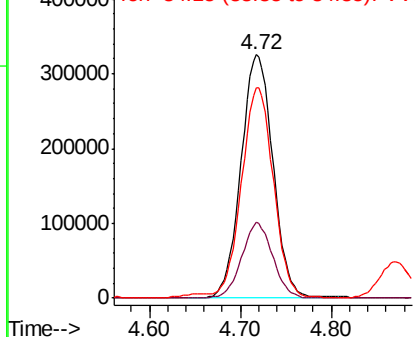
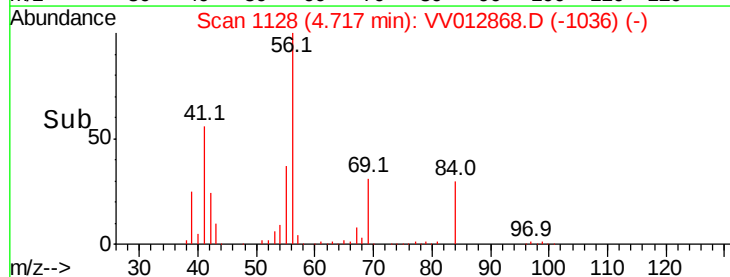
#30
 Cyclohexane
 Concen: 21.747 ug/L
 RT: 4.72 min Scan# 1128
 Delta R.T. -0.00 min
 Lab File: VV012868.D
 Acq: 17 Sep 2019 17:08

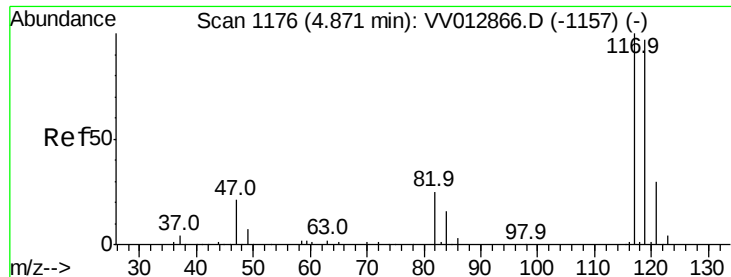
Tgt Ion: 56 Resp: 795316

Ion	Ratio	Lower	Upper
56	100		
69	30.2	24.4	36.6
84	86.2	69.3	103.9



Abundance Ion 56.10 (55.80 to 56.80): VV0
 Ion 69.15 (68.85 to 69.85): VV0
 Ion 84.15 (83.85 to 84.85): VV0

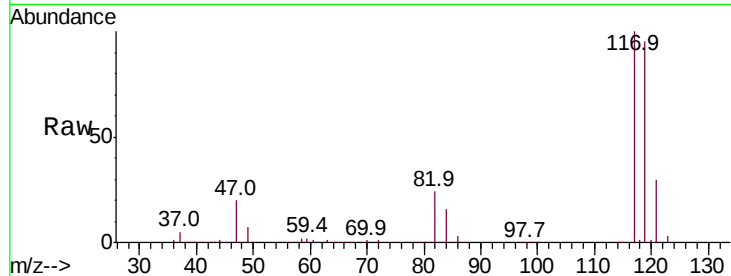




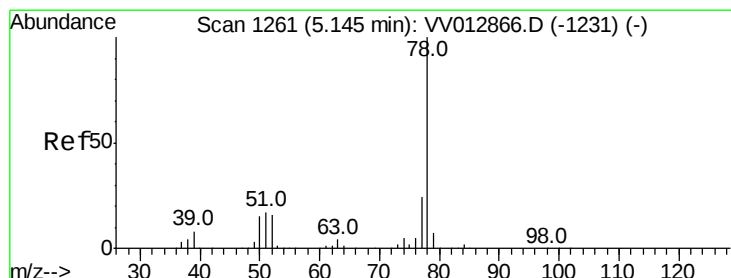
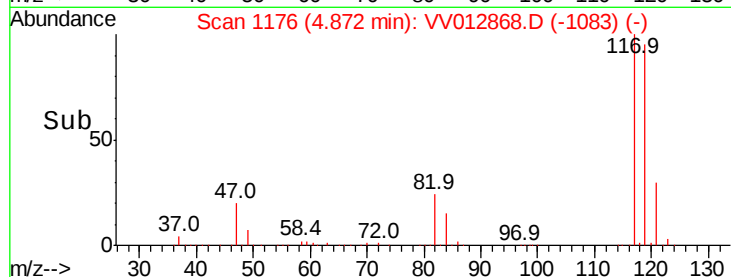
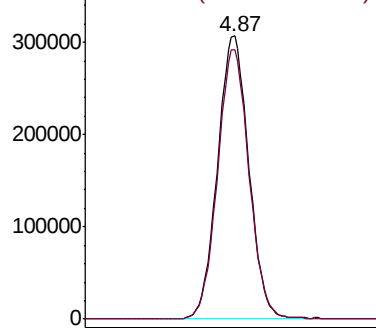
#31
Carbon tetrachloride
Concen: 19.364 ug/L
RT: 4.87 min Scan# 1176
Delta R.T. 0.00 min
Lab File: VV012868.D
Acq: 17 Sep 2019 17:08

Instrument :
MSVOA_V
ClientSampleId :
VSTD02032

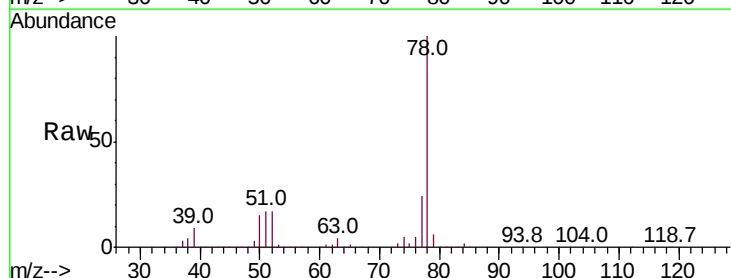
Tot Ion:117 Resp: 719123
Ion Ratio Lower Upper
117 100
119 95.7 75.6 113.4



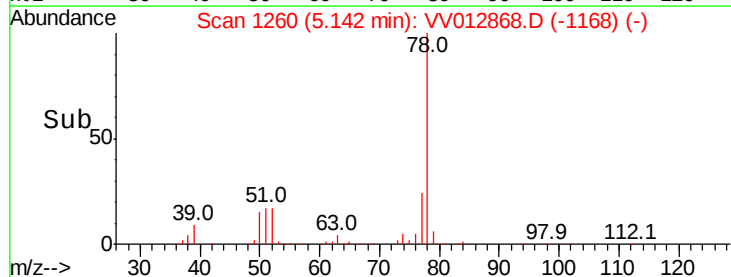
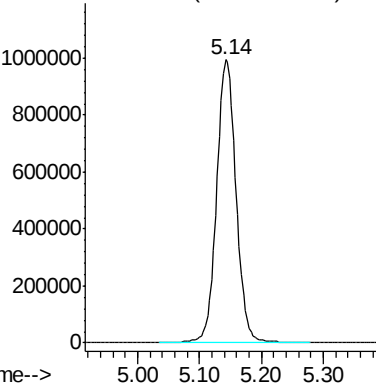
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 118.90 (118.60 to 119.60): V

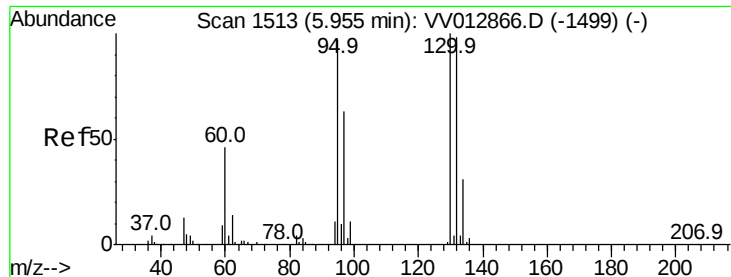


#33
Benzene
Concen: 19.833 ug/L
RT: 5.14 min Scan# 1260
Delta R.T. -0.00 min
Lab File: VV012868.D
Acq: 17 Sep 2019 17:08
Tgt Ion: 78 Resp: 2171551



Abundance Ion 78.10 (77.80 to 78.80): VV0

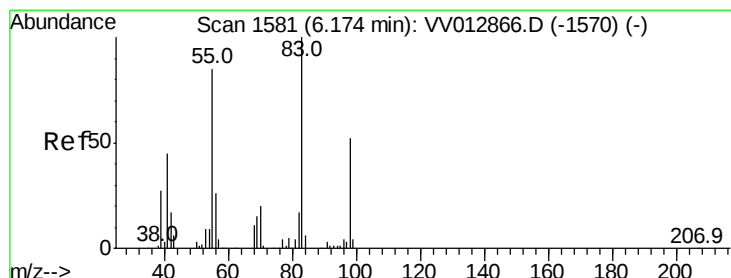
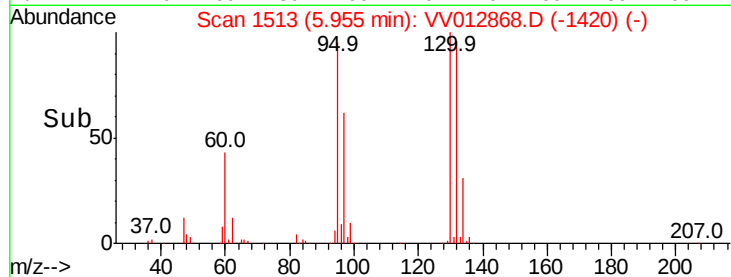
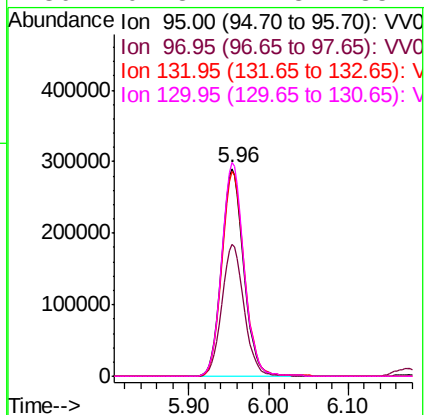
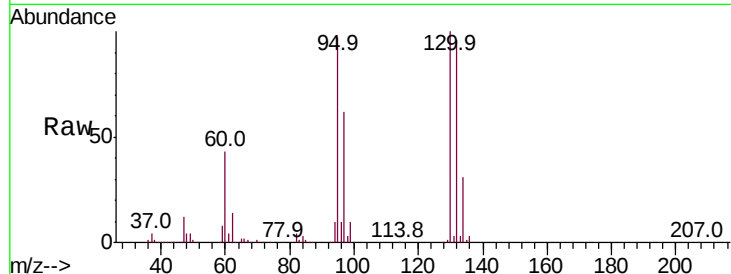




#34
 Trichloroethene
 Concen: 19.713 ug/L
 RT: 5.96 min Scan# 1513
 Delta R.T. 0.00 min
 Lab File: VV012868.D
 Acq: 17 Sep 2019 17:08

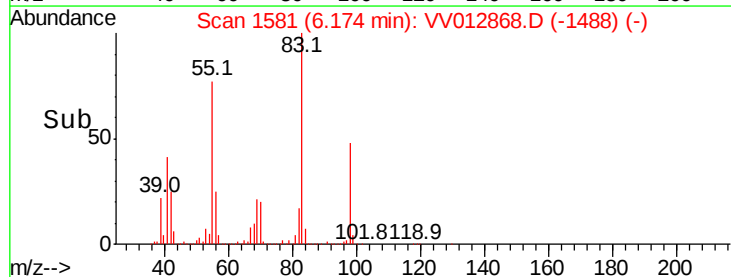
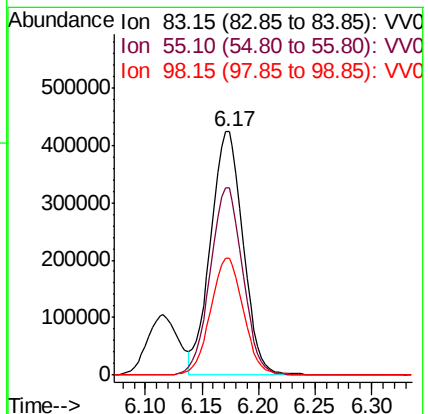
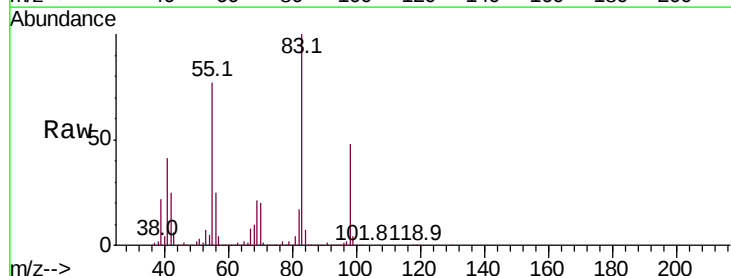
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02032

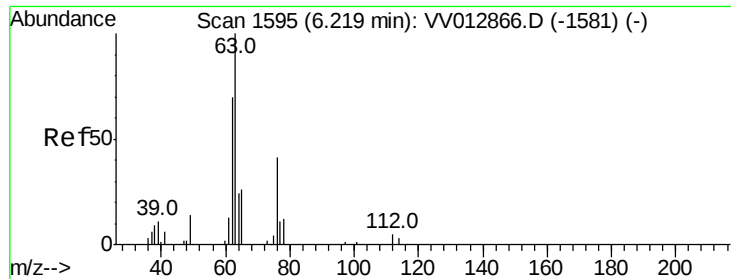
Tot Ion	95	Resp	555938
Ion	Ratio	Lower	Upper
95	100		
97	63.4	45.3	84.1
132	98.7	70.6	131.0
130	102.8	71.8	133.4



#35
 Methylcyclohexane
 Concen: 22.282 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: VV012868.D
 Acq: 17 Sep 2019 17:08

Tgt Ion	83	Resp	843339
Ion	Ratio	Lower	Upper
83	100		
55	77.4	63.8	95.6
98	48.7	38.2	57.4





#37

1,2-Dichloropropane

Concen: 20.017 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

Instrument :

MSVOA_V

ClientSampleId :

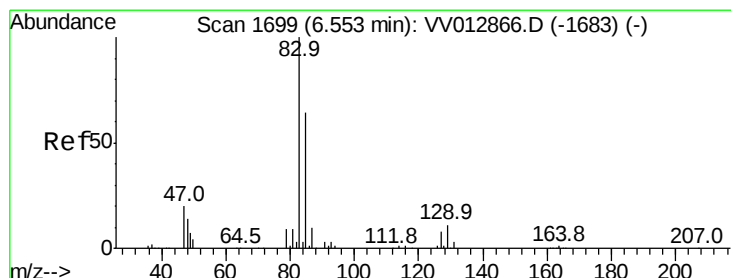
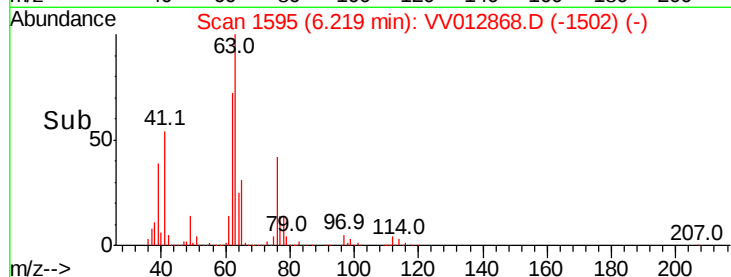
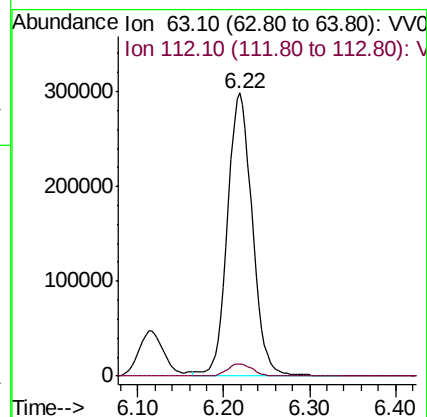
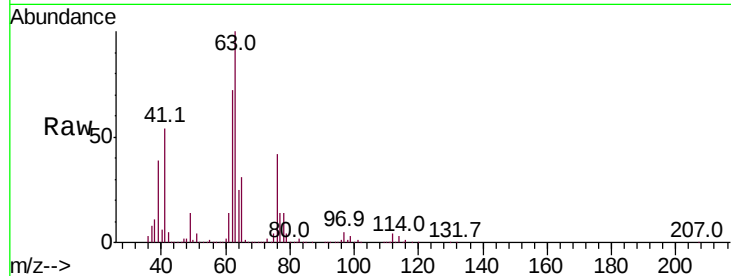
VSTD02032

Tot Ion: 63 Resp: 597226

Ion Ratio Lower Upper

63 100

112 4.5 3.8 5.6



#38

Bromodichloromethane

Concen: 19.442 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

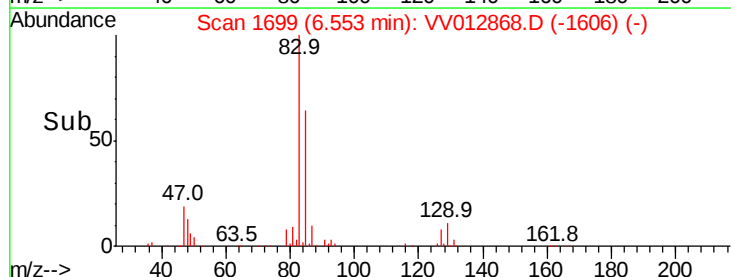
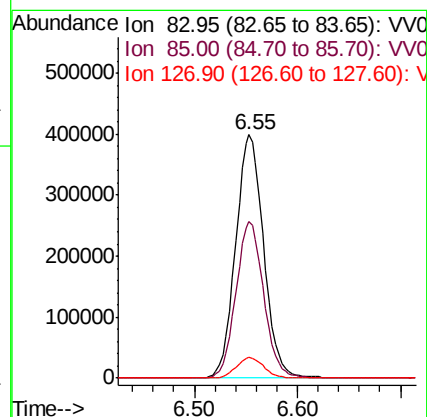
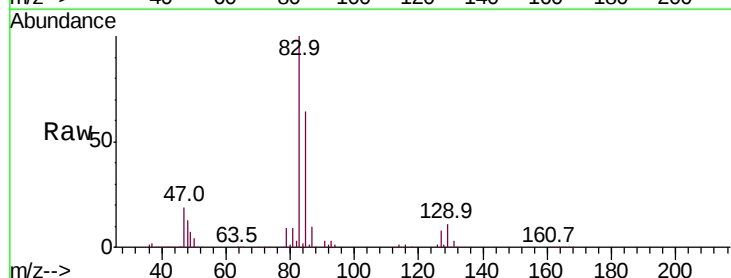
Tgt Ion: 83 Resp: 754954

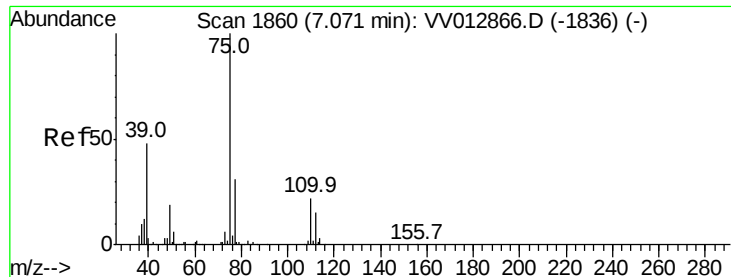
Ion Ratio Lower Upper

83 100

85 64.3 44.9 83.5

127 8.4 6.8 10.2





#39

cis-1,3-Dichloropropene

Concen: 21.970 ug/L

RT: 7.07 min Scan# 1859

Delta R.T. -0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

Instrument :

MSVOA_V

ClientSampleId :

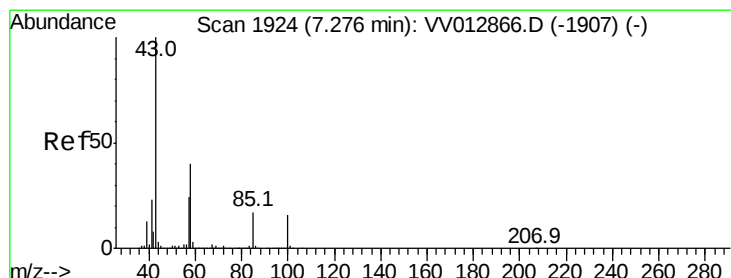
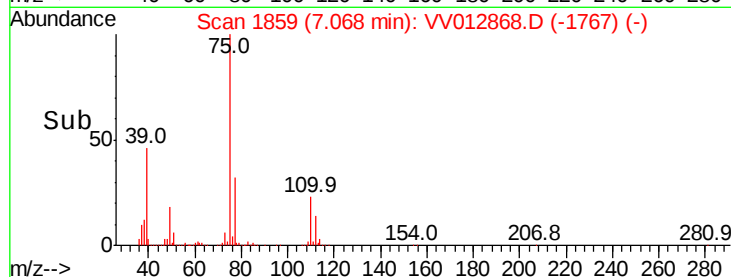
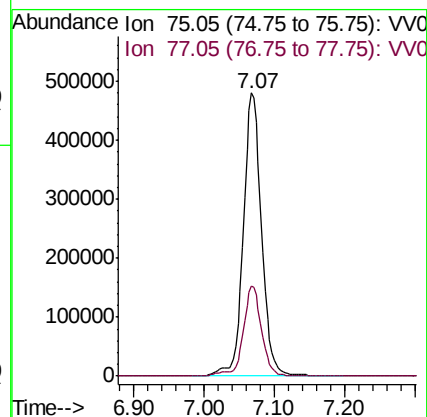
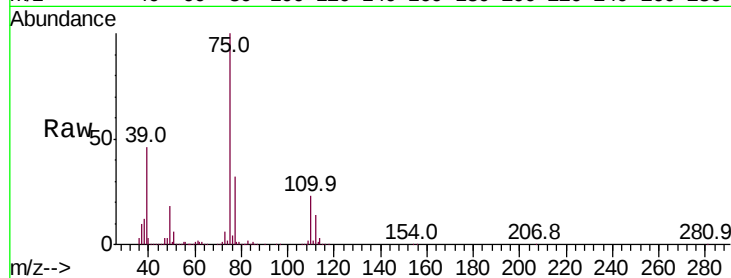
VSTD02032

Tot Ion: 75 Resp: 868335

Ion Ratio Lower Upper

75 100

77 31.9 21.6 40.0



#40

4-Methyl-2-pentanone

Concen: 221.038 ug/L

RT: 7.28 min Scan# 1924

Delta R.T. 0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

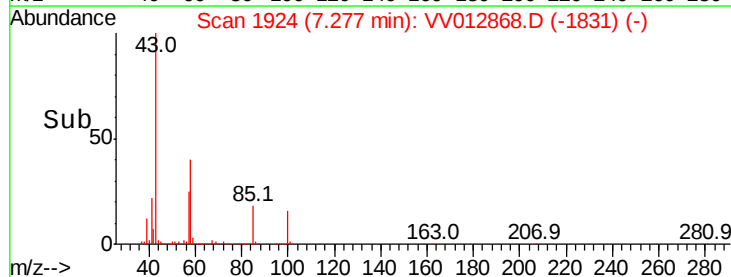
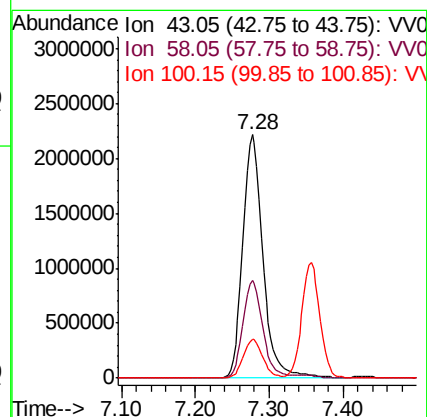
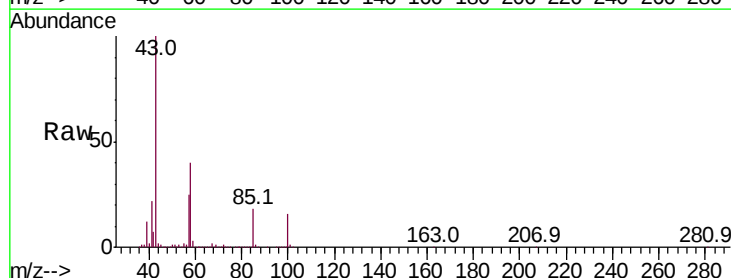
Tgt Ion: 43 Resp: 4246822

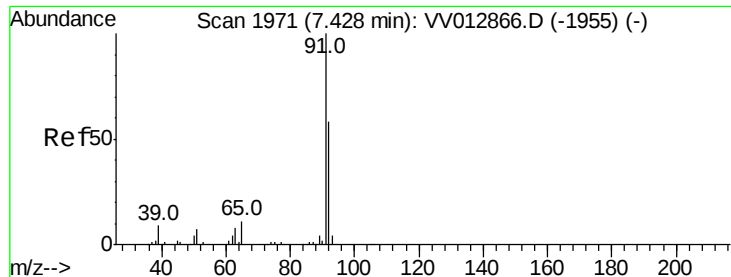
Ion Ratio Lower Upper

43 100

58 39.6 30.8 46.2

100 15.5 11.8 17.6





#42

Toluene

Concen: 20.786 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

Instrument :

MSVOA_V

ClientSampleId :

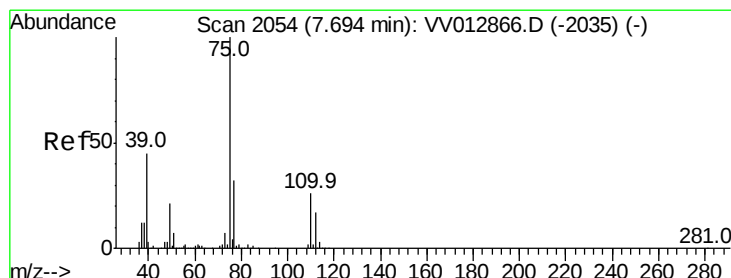
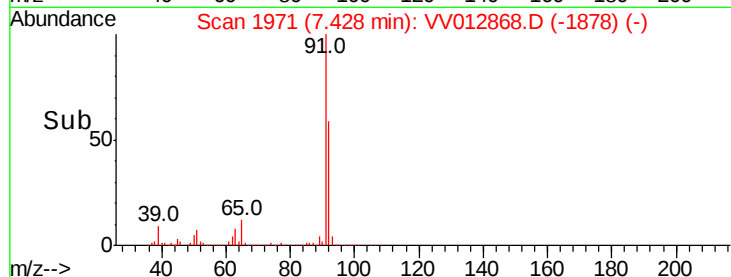
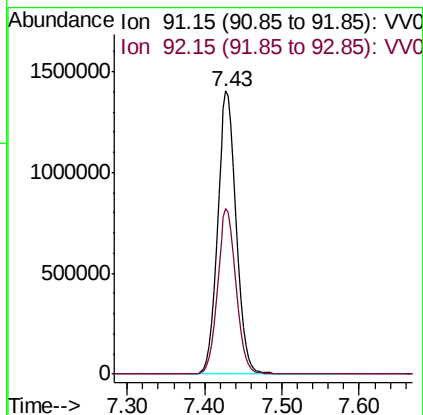
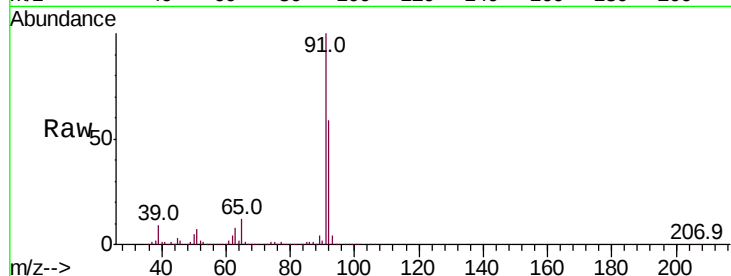
VSTD02032

Tot Ion: 91 Resp: 2369427

Ion Ratio Lower Upper

91 100

92 58.6 40.8 75.8



#44

trans-1,3-Dichloropropene

Concen: 22.035 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV012868.D

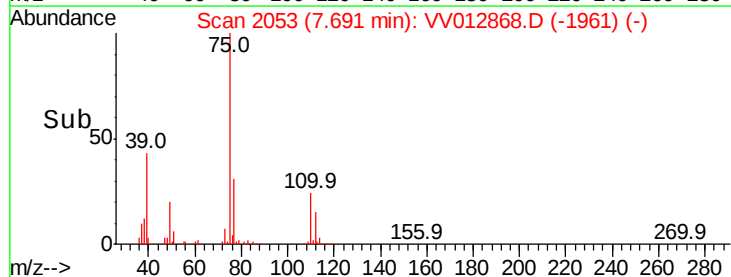
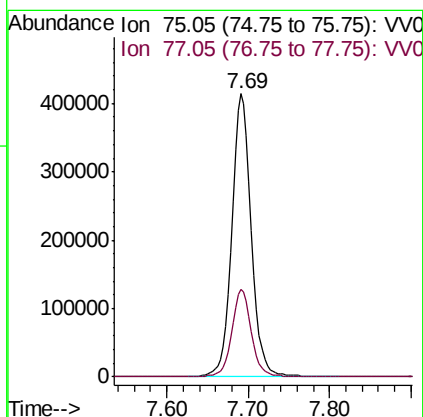
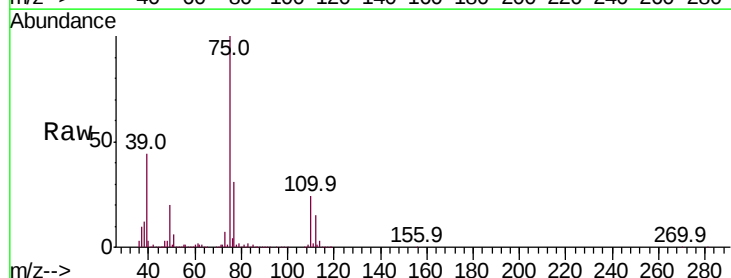
Acq: 17 Sep 2019 17:08

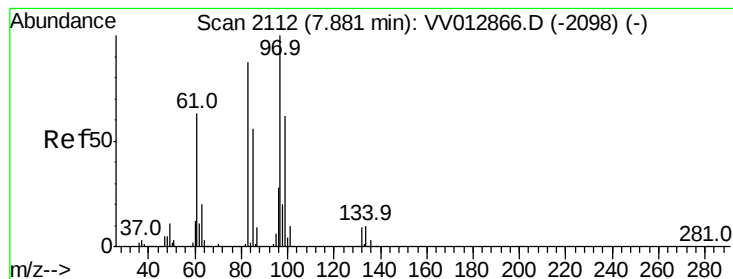
Tgt Ion: 75 Resp: 695593

Ion Ratio Lower Upper

75 100

77 31.1 22.5 41.7





#45

1,1,2-Trichloroethane

Concen: 19.492 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02032

Tot Ion: 97 Resp: 435865

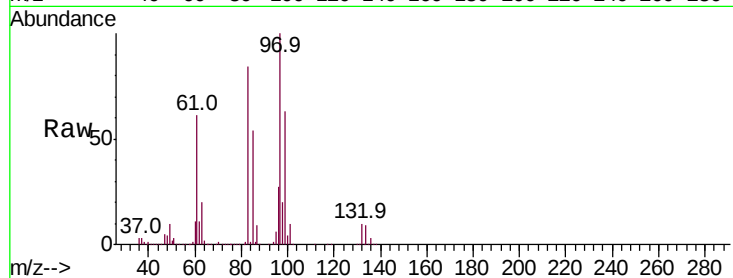
Ion Ratio Lower Upper

97 100

99 62.5 43.7 81.1

83 83.9 60.6 112.6

85 53.6 38.9 72.3

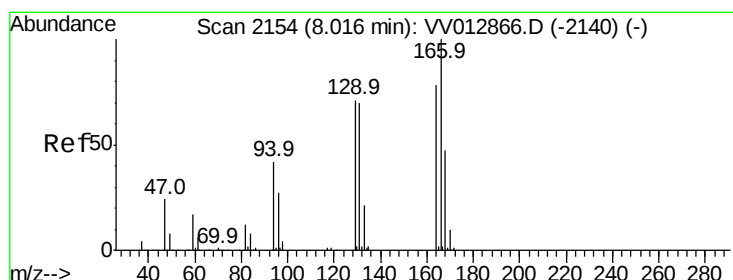
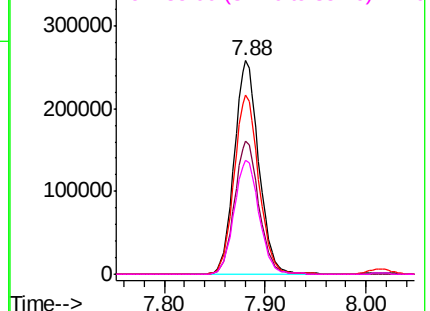
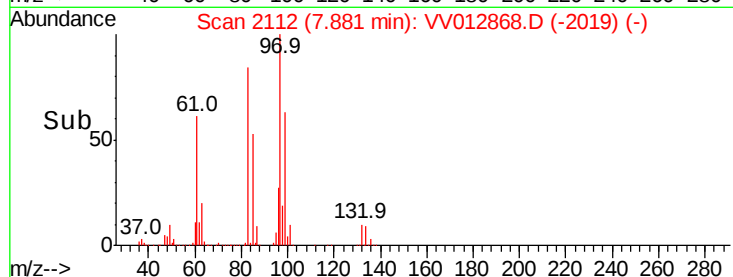


Abundance Ion 96.95 (96.65 to 97.65): VV012866.D (-2098) (-)

Ion 99.05 (98.75 to 99.75): VV012866.D (-2098) (-)

Ion 82.95 (82.65 to 83.65): VV012866.D (-2098) (-)

Ion 85.00 (84.70 to 85.70): VV012866.D (-2098) (-)



#47

Tetrachloroethene

Concen: 19.581 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

Tgt Ion: 164 Resp: 443767

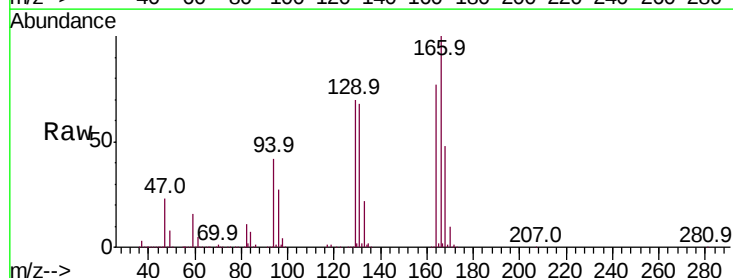
Ion Ratio Lower Upper

164 100

129 91.4 63.8 118.6

131 88.6 63.1 117.3

166 130.2 89.9 166.9

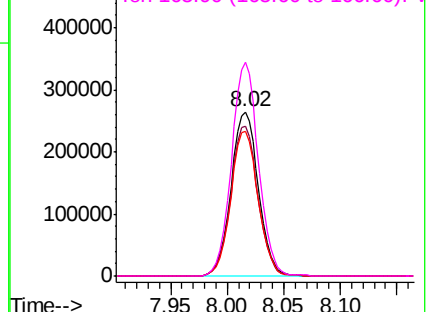
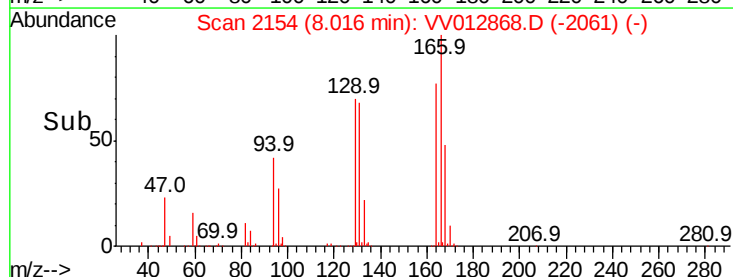


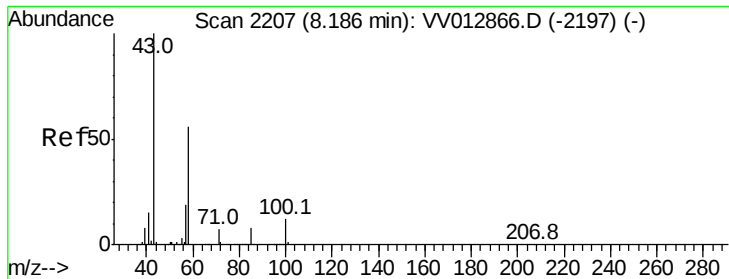
Abundance Ion 163.90 (163.60 to 164.60): VV012866.D (-2140) (-)

Ion 128.95 (128.65 to 129.65): VV012866.D (-2140) (-)

Ion 130.95 (130.65 to 131.65): VV012866.D (-2140) (-)

Ion 165.90 (165.60 to 166.60): VV012866.D (-2140) (-)





#48

2-Hexanone

Concen: 218.276 ug/L

RT: 8.19 min Scan# 2207

Delta R.T. 0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

Instrument :

MSVOA_V

ClientSampleID :

VSTD02032

Tot Ion: 43 Resp: 3030172

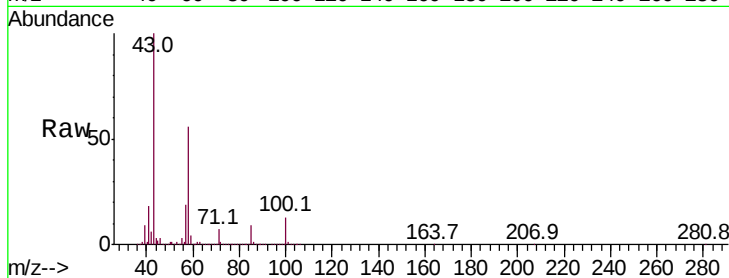
Ion Ratio Lower Upper

43 100

58 56.4 44.5 66.7

57 19.1 15.0 22.6

100 12.4 9.7 14.5



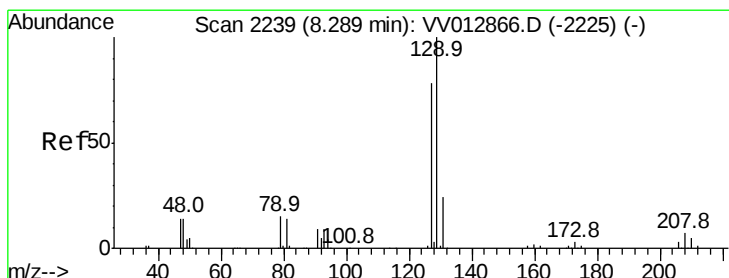
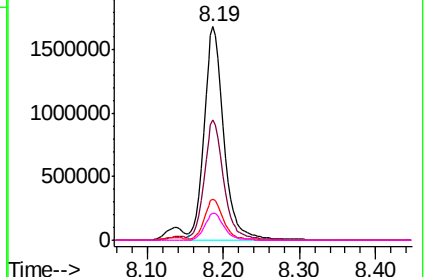
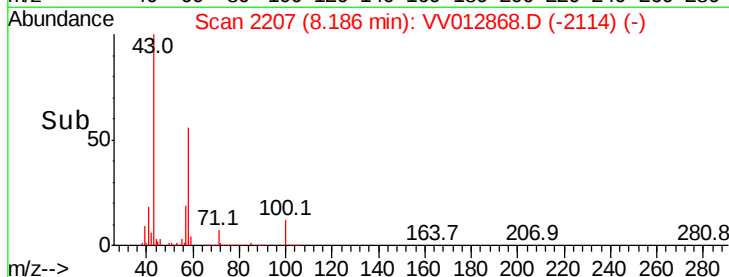
Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 57.20 (56.90 to 57.90): VV0

Ion 100.15 (99.85 to 100.85): VV0

Time-->



#49

Dibromochloromethane

Concen: 20.492 ug/L

RT: 8.29 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VV012868.D

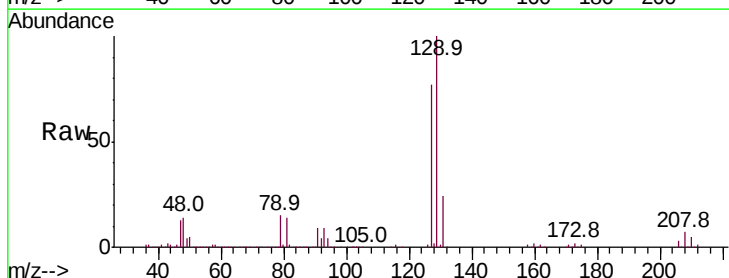
Acq: 17 Sep 2019 17:08

Tgt Ion: 129 Resp: 521732

Ion Ratio Lower Upper

129 100

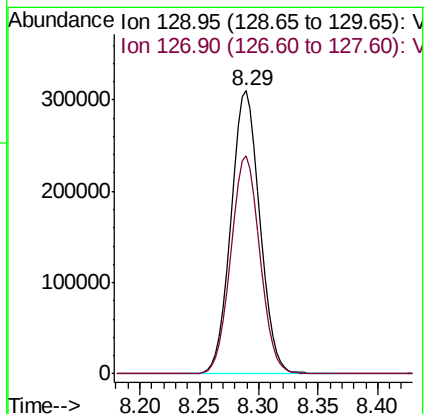
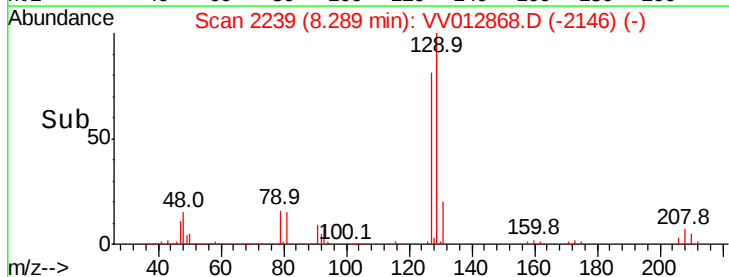
127 77.0 54.7 101.7

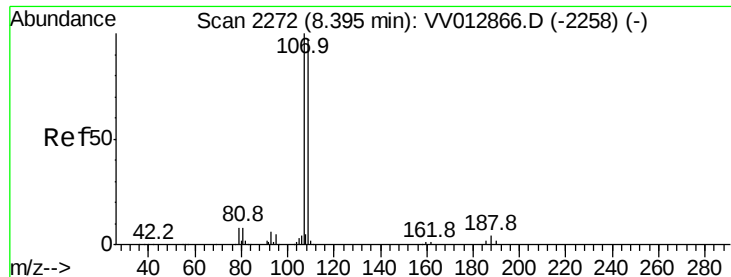


Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

Time-->

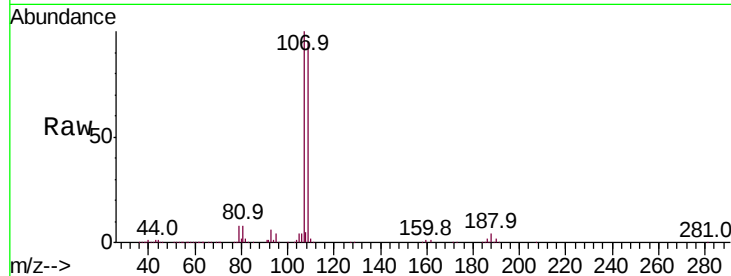




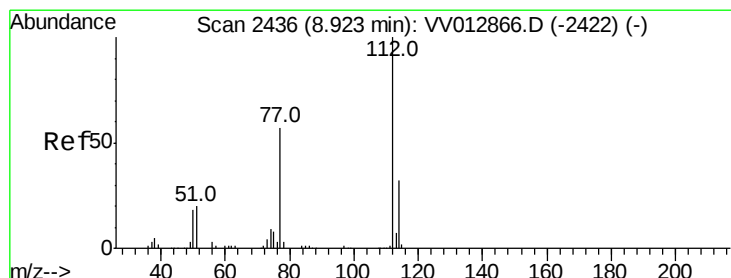
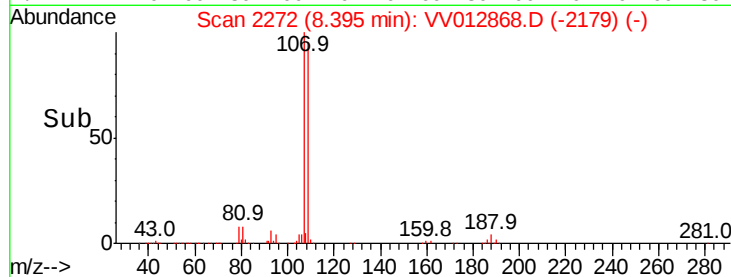
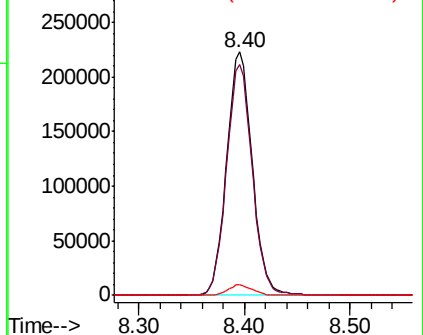
#50
 1,2-Dibromoethane
 Concen: 20.075 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VV012868.D
 Acq: 17 Sep 2019 17:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02032

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.9	68.0	126.2
188	4.3	3.2	4.8

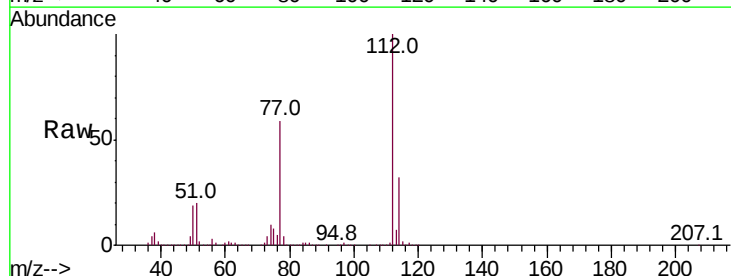


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

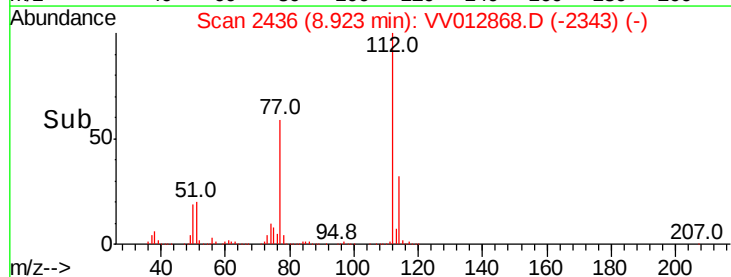
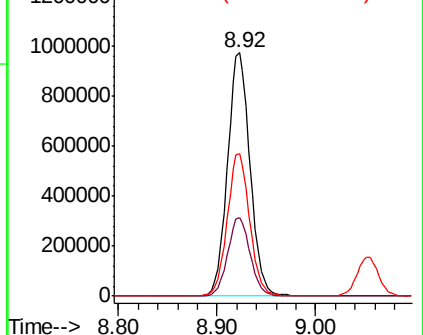


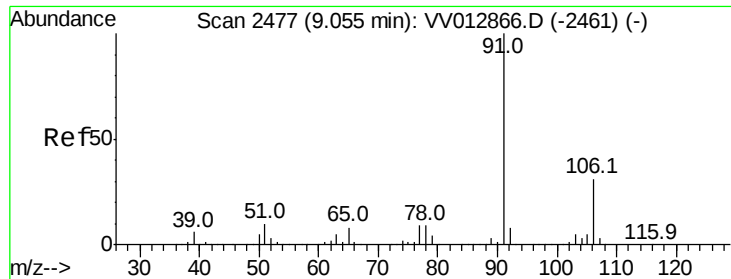
#51
 Chlorobenzene
 Concen: 19.955 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. 0.00 min
 Lab File: VV012868.D
 Acq: 17 Sep 2019 17:08

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.4	22.3	41.5
77	58.6	45.8	68.8



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

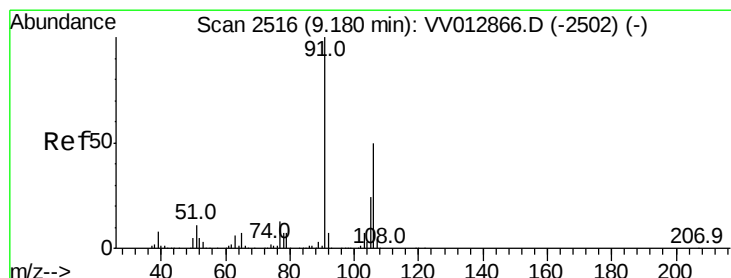
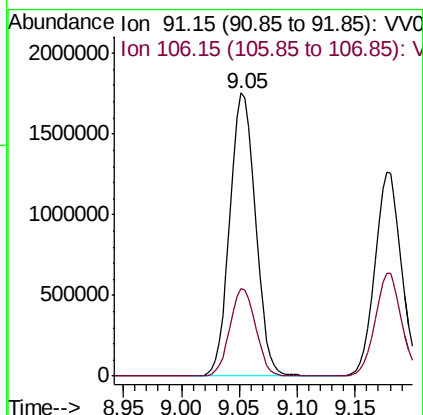
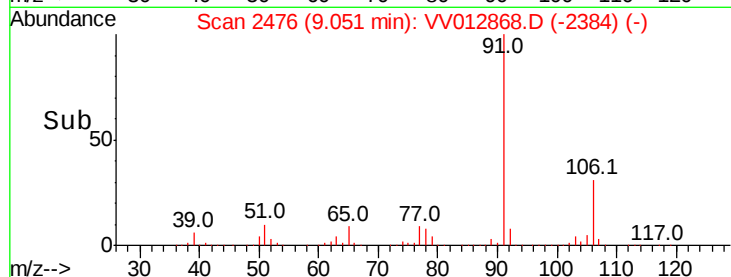
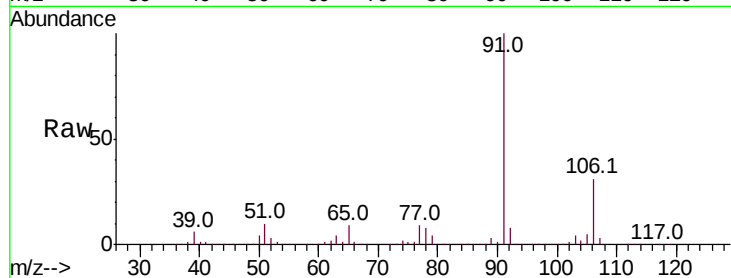




#52
Ethylbenzene
Concen: 22.034 ug/L
RT: 9.05 min Scan# 2476
Delta R.T. -0.00 min
Lab File: VV012868.D
Acq: 17 Sep 2019 17:08

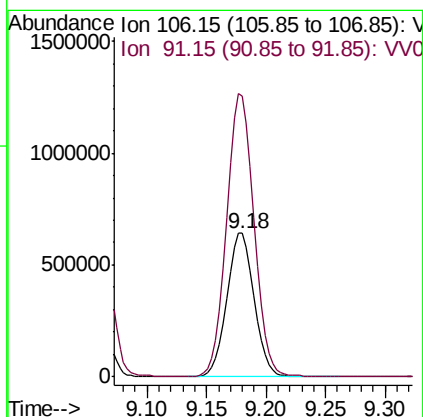
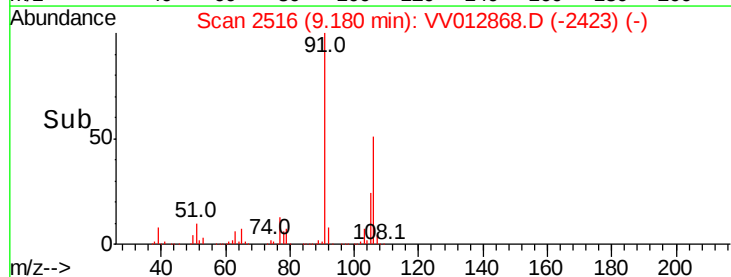
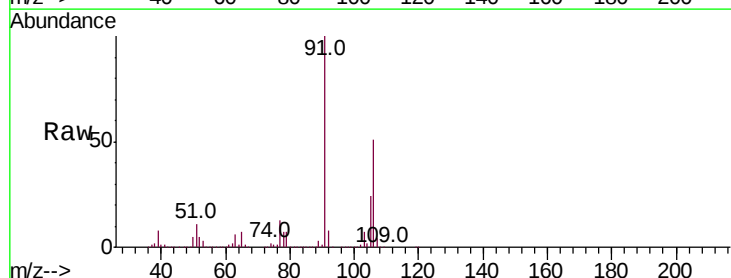
Instrument :
MSVOA_V
ClientSampleId :
VSTD02032

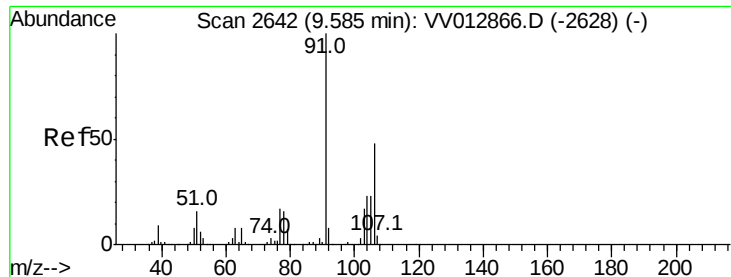
Tot Ion: 91 Resp: 2693850
Ion Ratio Lower Upper
91 100
106 31.0 21.7 40.3



#53
m,p-xylene
Concen: 22.533 ug/L
RT: 9.18 min Scan# 2516
Delta R.T. 0.00 min
Lab File: VV012868.D
Acq: 17 Sep 2019 17:08

Tgt Ion:106 Resp: 1016043
Ion Ratio Lower Upper
106 100
91 195.9 139.6 259.2





#54

o-xylene

Concen: 23.087 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

Instrument :

MSVOA_V

ClientSampleId :

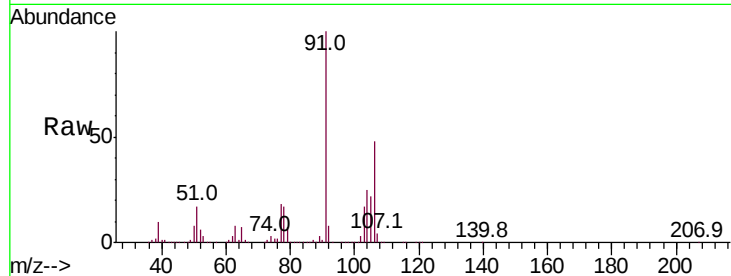
VSTD02032

Tot Ion:106 Resp: 1023500

Ion Ratio Lower Upper

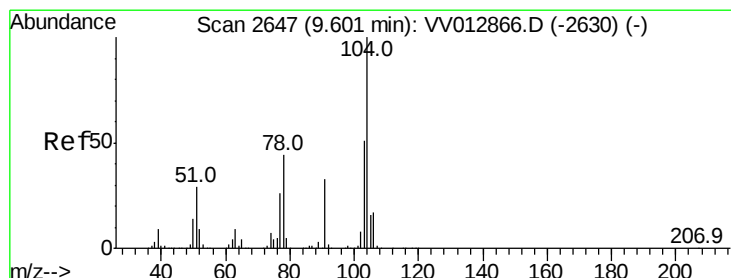
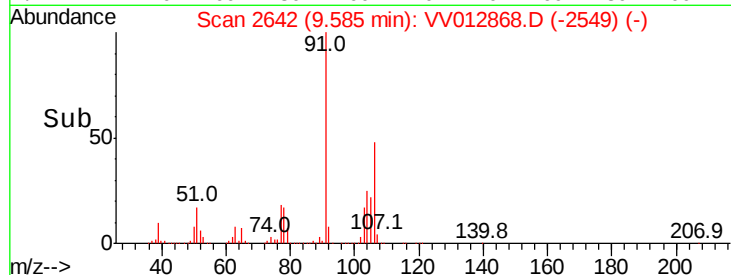
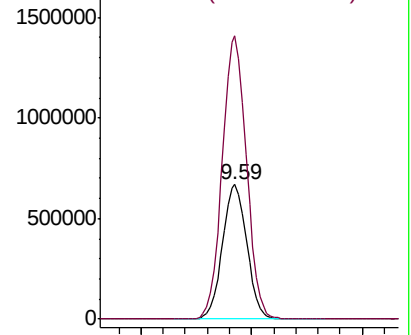
106 100

91 209.9 147.4 273.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 23.556 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV012868.D

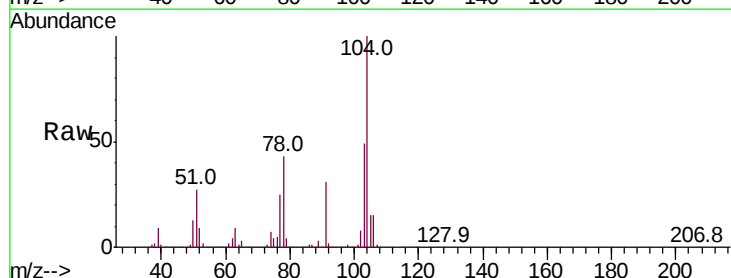
Acq: 17 Sep 2019 17:08

Tgt Ion:104 Resp: 1791515

Ion Ratio Lower Upper

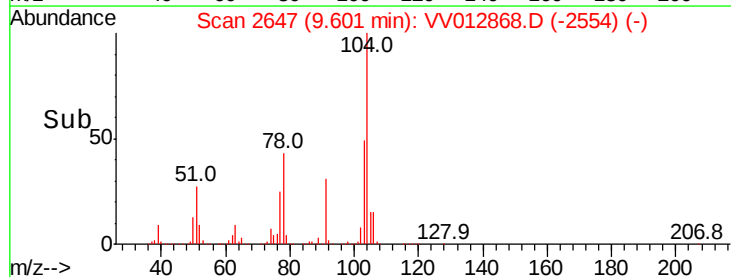
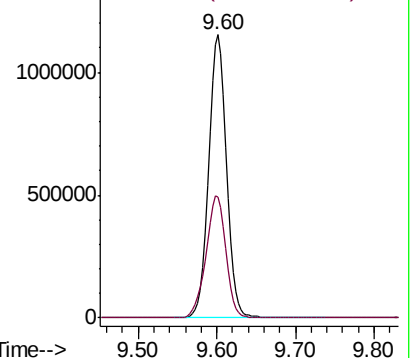
104 100

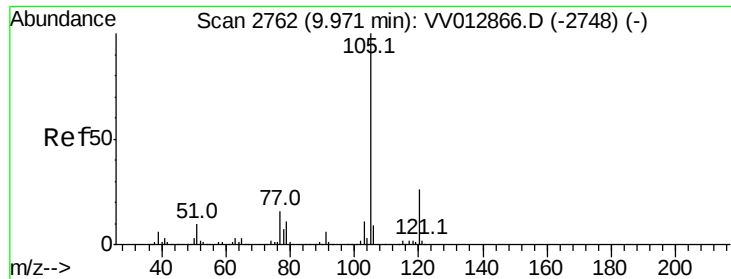
78 42.8 30.5 56.7



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 23.357 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02032

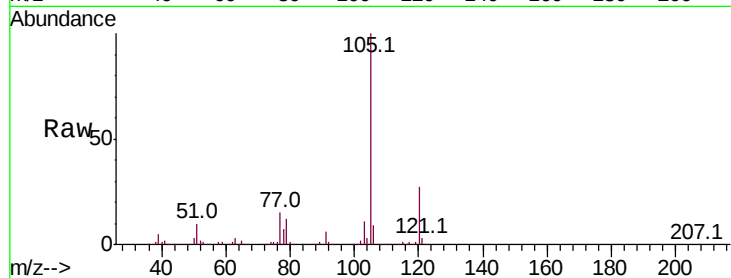
Tot Ion:105 Resp: 2778397

Ion Ratio Lower Upper

105 100

120 26.6 20.8 31.2

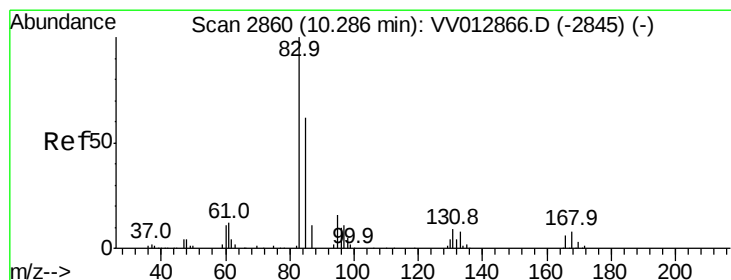
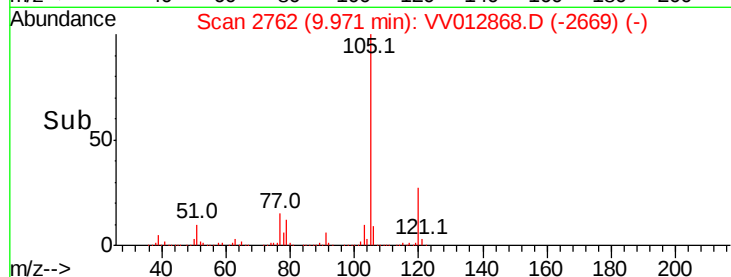
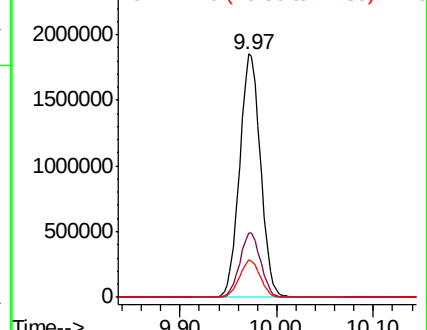
77 15.3 12.6 19.0



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: 19.590 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

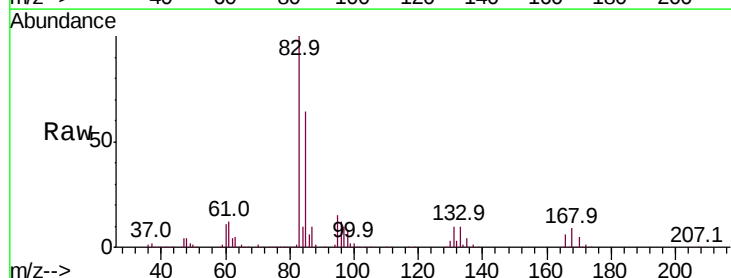
Tgt Ion: 83 Resp: 548591

Ion Ratio Lower Upper

83 100

85 63.8 43.9 81.5

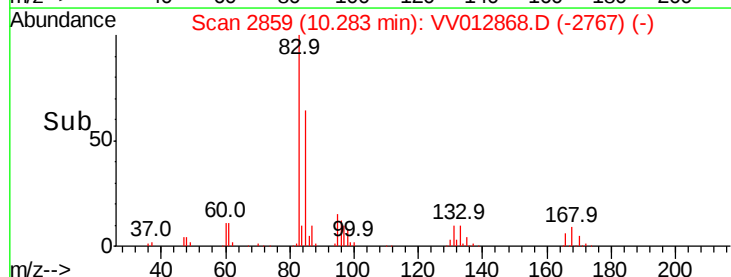
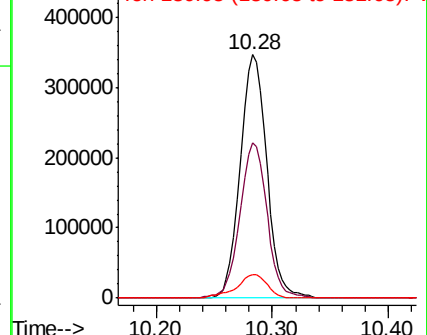
131 9.9 7.5 11.3

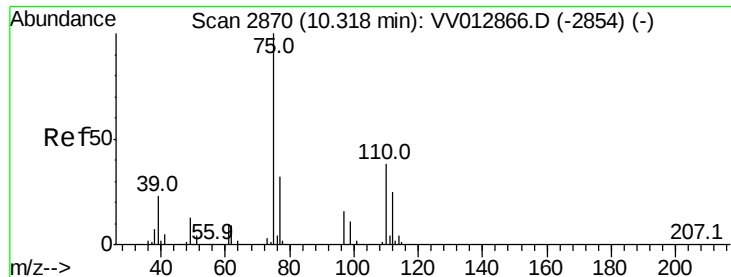


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 19.406 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

Instrument :

MSVOA_V

ClientSampleId :

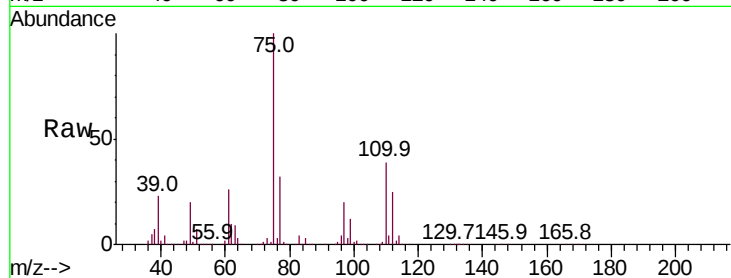
VSTD02032

Tot Ion: 75 Resp: 377723

Ion Ratio Lower Upper

75 100

77 32.1 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VV012866.D (-2854) (-)

Ion 77.00 (76.70 to 77.70): VV012866.D (-2854) (-)

10.32

250000

200000

150000

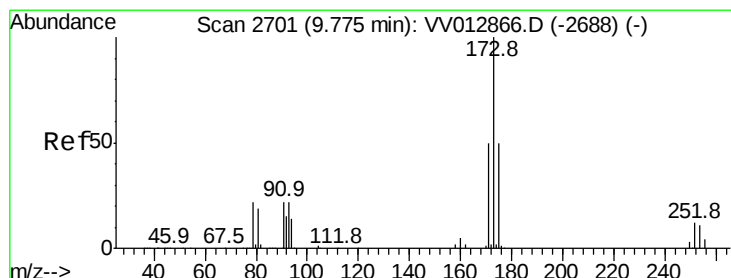
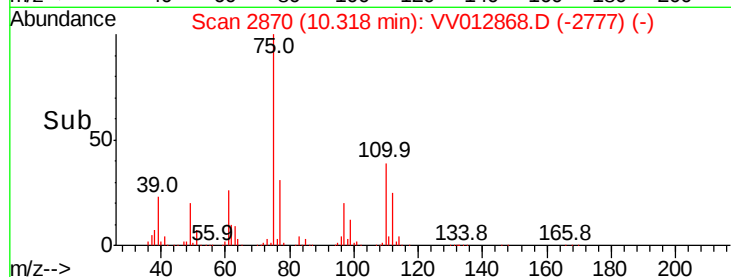
100000

50000

0

10.30 10.40

Time-->



#61

Bromoform

Concen: 19.635 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

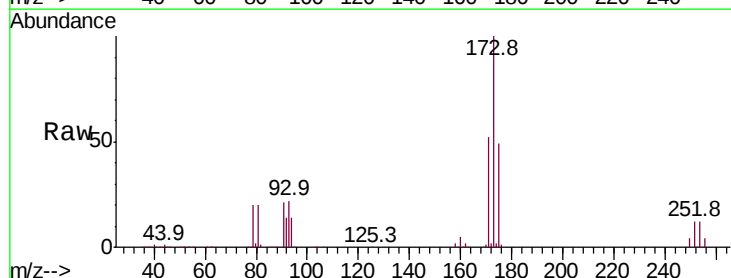
Tgt Ion: 173 Resp: 295688

Ion Ratio Lower Upper

173 100

175 48.4 39.2 58.8

254 11.6 9.4 14.0



Abundance Ion 172.90 (172.60 to 173.60): VV012866.D (-2688) (-)

Ion 174.90 (174.60 to 175.60): VV012866.D (-2688) (-)

Ion 253.75 (253.45 to 254.45): VV012866.D (-2688) (-)

9.77

250000

200000

150000

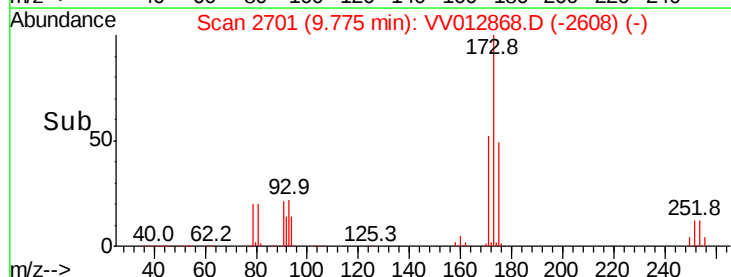
100000

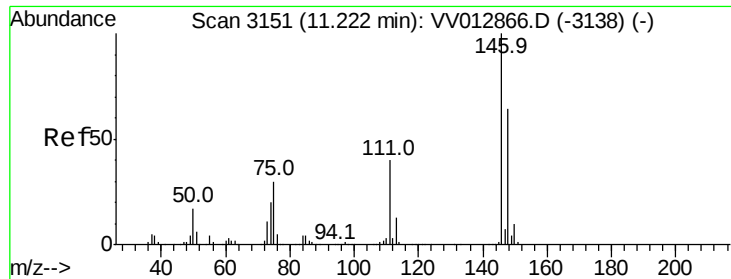
50000

0

9.70 9.75 9.80 9.85

Time-->





#62

1,3-Dichlorobenzene

Concen: 19.902 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. 0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

Instrument :

MSVOA_V

ClientSampled :

VSTD02032

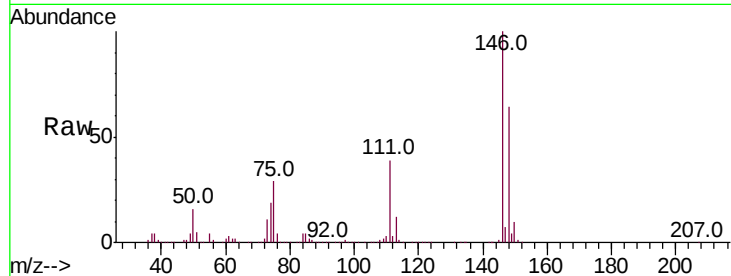
Tot Ion:146 Resp: 1306196

Ion Ratio Lower Upper

146 100

111 38.7 27.8 51.6

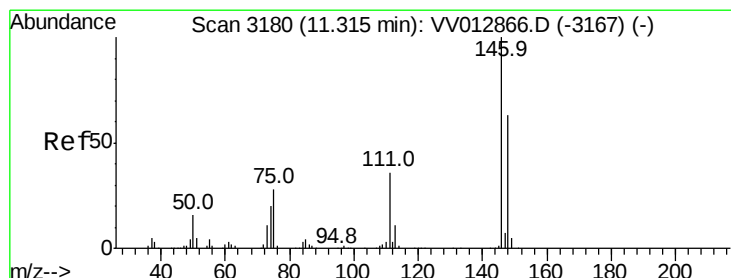
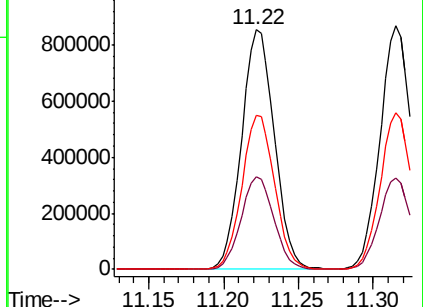
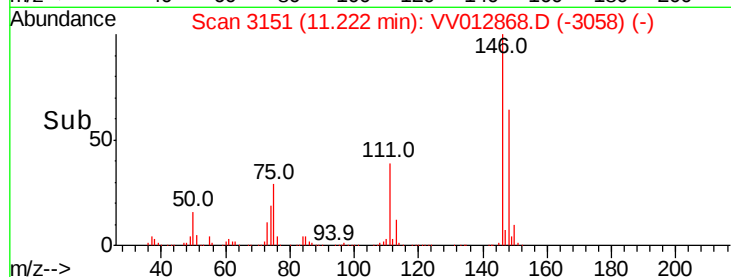
148 64.5 44.6 82.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 19.232 ug/L

RT: 11.31 min Scan# 3180

Delta R.T. 0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

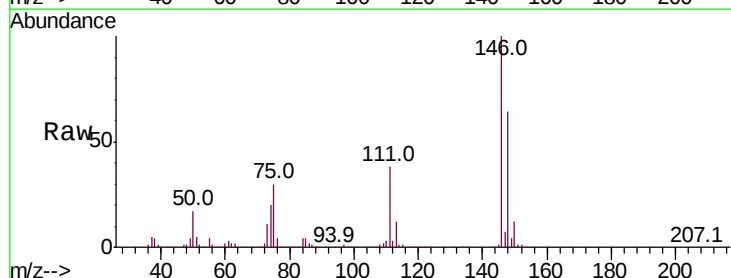
Tgt Ion:146 Resp: 1295366

Ion Ratio Lower Upper

146 100

111 37.6 25.6 47.4

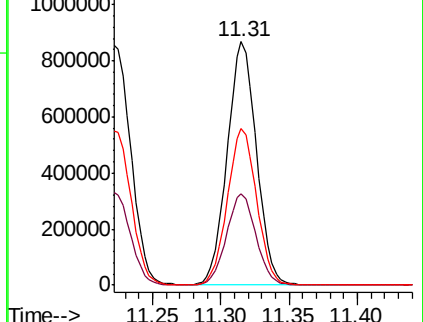
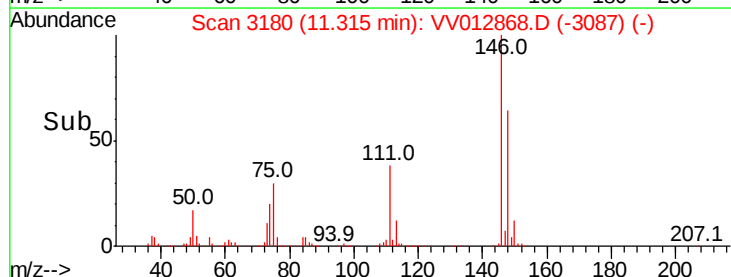
148 64.4 44.5 82.7

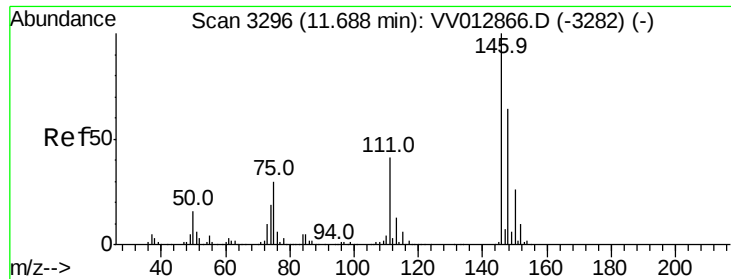


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 19.222 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. 0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02032

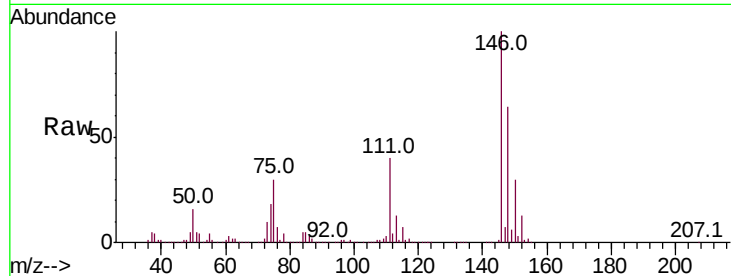
Tot Ion:146 Resp: 1244388

Ion Ratio Lower Upper

146 100

111 40.1 32.8 49.2

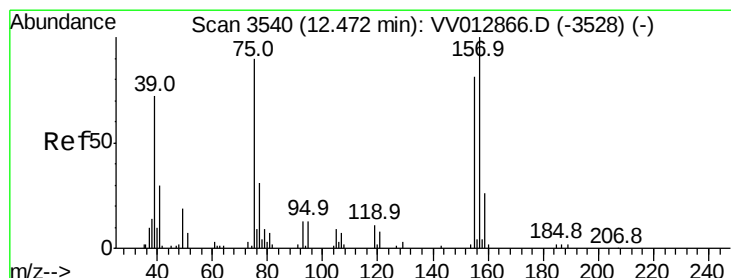
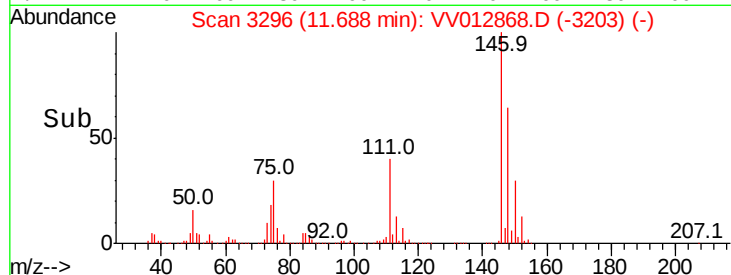
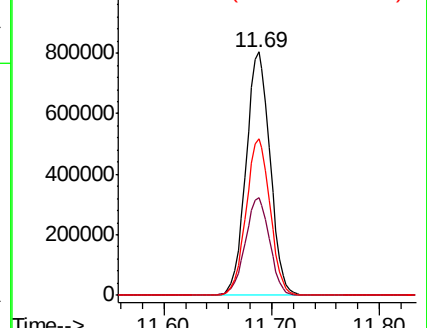
148 64.3 51.1 76.7



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 18.220 ug/L

RT: 12.47 min Scan# 3540

Delta R.T. 0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

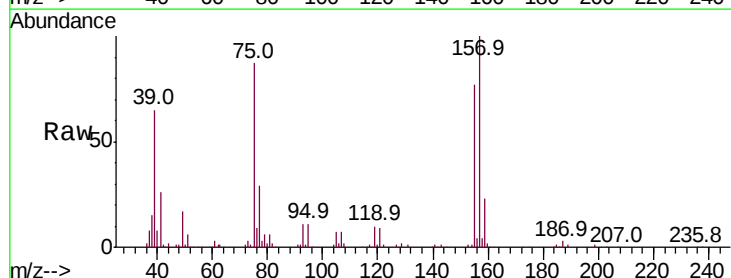
Tgt Ion: 75 Resp: 81069

Ion Ratio Lower Upper

75 100

155 88.6 72.4 108.6

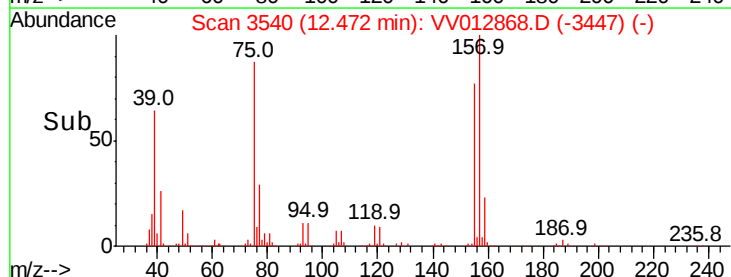
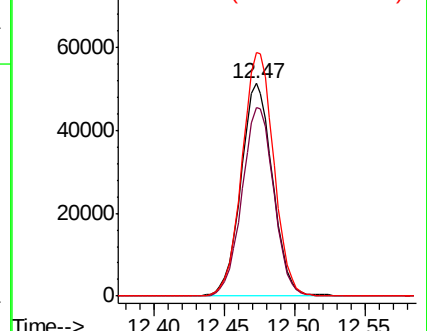
157 114.6 89.3 133.9

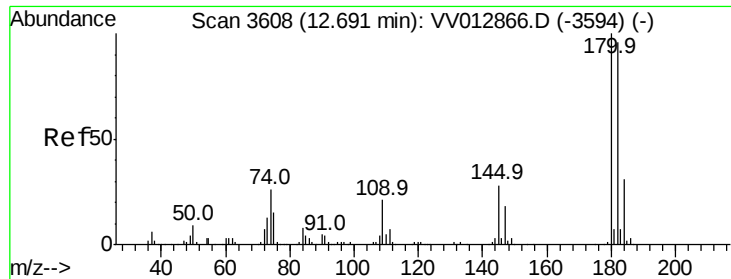


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V



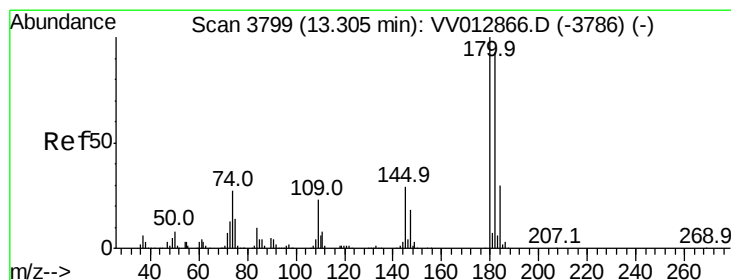
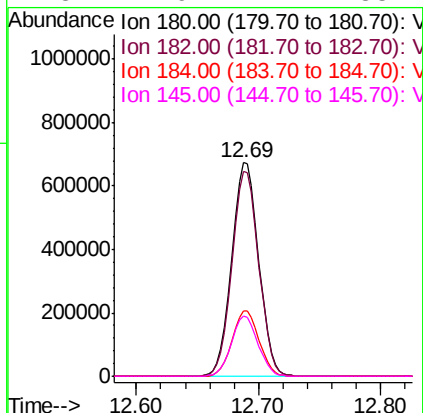
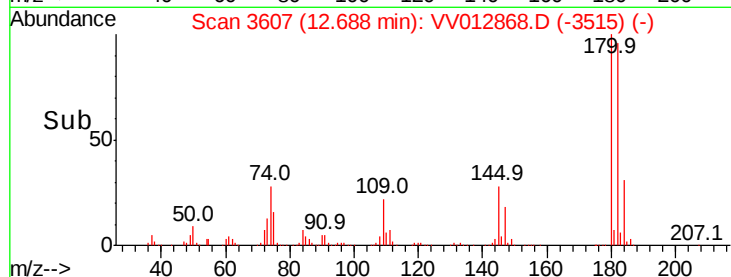
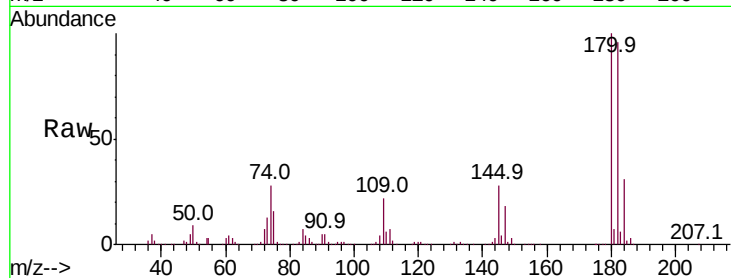


#67
 1,3,5-Trichlorobenzene
 Concen: 20.163 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. -0.00 min
 Lab File: VV012868.D
 Acq: 17 Sep 2019 17:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02032

Tot Ion:180 Resp: 1034757

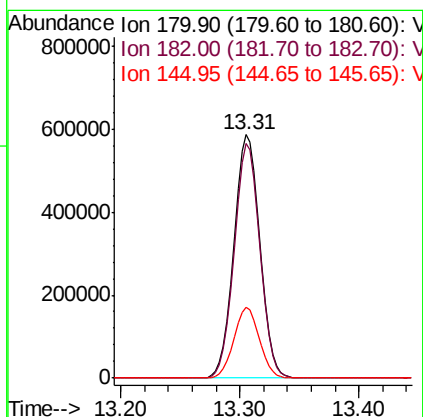
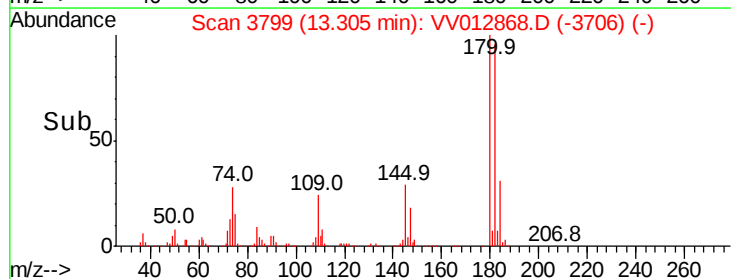
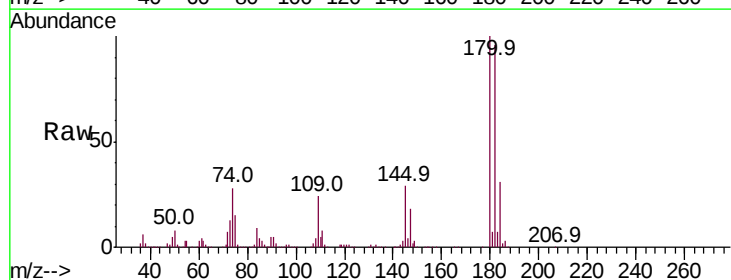
Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.2	114.4
184	30.6	24.6	36.8
145	27.9	22.1	33.1

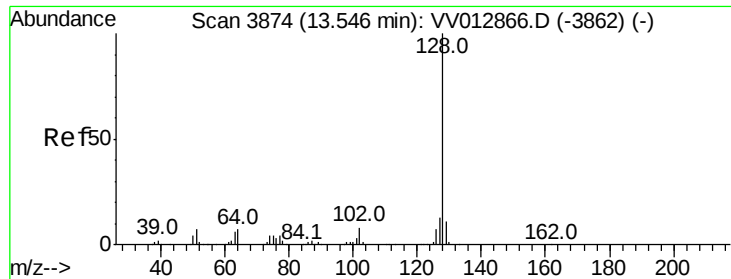


#68
 1,2,4-trichlorobenzene
 Concen: 21.469 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV012868.D
 Acq: 17 Sep 2019 17:08

Tgt Ion:180 Resp: 884668

Ion	Ratio	Lower	Upper
180	100		
182	95.4	75.8	113.6
145	28.6	22.9	34.3





#69

Naphthalene

Concen: 24.839 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02032

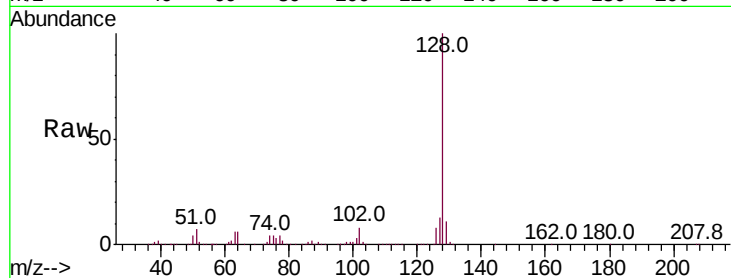
Tot Ion:128 Resp: 1546581

Ion Ratio Lower Upper

128 100

129 10.8 8.9 13.3

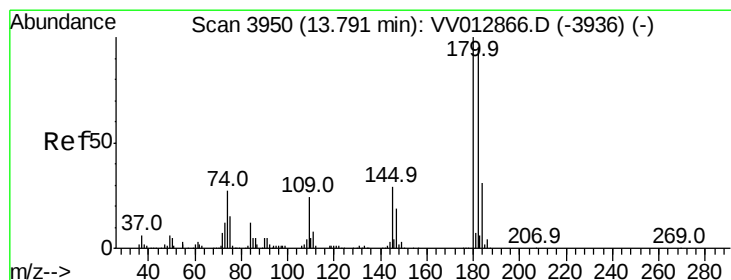
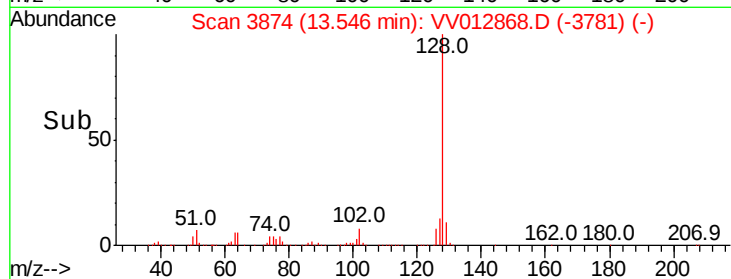
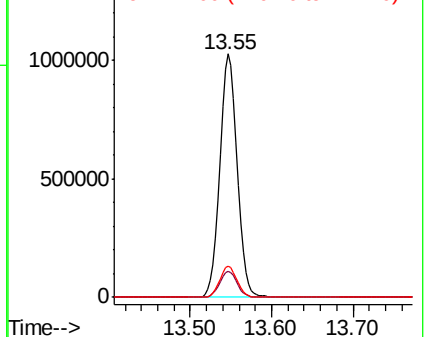
127 12.9 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 20.921 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VV012868.D

Acq: 17 Sep 2019 17:08

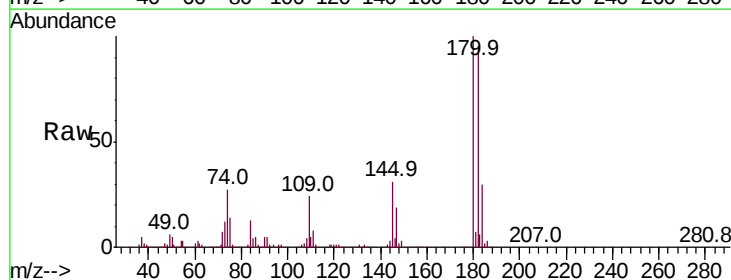
Tgt Ion:180 Resp: 850516

Ion Ratio Lower Upper

180 100

182 95.7 76.1 114.1

145 30.7 23.7 35.5



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

